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Containing the Patents, Trade-Marks, & Designs issued

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Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

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Affiliated Gas Equipment, Inc., assignee: *See*—
Payne Furnace Company.

Ainsbrooke Inc., Dothan, Ala., and New York, N. Y. Men's pajamas. Serial No. 624,004, Sept. 2. Class 39.

Airmaster Corporation, Chicago, Ill. Kitchen and window exhaust fans, gravity-operated and motor driven shutters, etc. Serial No. 625,446, Sept. 2. Class 34.

Albert, Inc., Chicago, Ill. Lingerie. Serial No. 616,268, Sept. 2. Class 39.

Aldridge Industrial Oils, Inc., Cleveland, Ohio. Additives for quenching oils. Serial No. 619,960, Sept. 2. Class 15.

Allied Laboratories, Inc., Kansas City, Mo. Solution of sodium sulfaquinoxaline in excess sodium hydroxide. Serial No. 619,782, Sept. 2. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Preparation containing conjugated estrogens, vitamin E concentrate, and phenobarbital. Serial No. 619,785, Sept. 2. Class 18.

Allied Raw Materials Company, Inc., New York, N. Y. Corn starch; glucose; dextrin, etc. Serial No. 590,128, Sept. 2. Class 46.

Alofs Manufacturing Company, Grand Rapids, Mich. Chain door stops, door supported garment hanger brackets, and anchor nuts. Serial No. 612,985, Sept. 2. Class 13.

American Fruit Growers Incorporated, Pittsburgh, Pa. Frozen poultry. Serial No. 615,673, Sept. 2. Class 46.

Apex Electrical Manufacturing Company, The, Cleveland, Ohio. Washing machines and parts therefor. Serial No. 596,253, Sept. 2. Class 24.

Arbaugh, Hugh W., doing business under the name and style of "Arbaugh's", Washington, D. C. Restaurant services. Serial No. 623,120, Sept. 2. Class 100.

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Armstrong Cork Company, Lancaster, Pa. Water emulsion wax, specially prepared asphalt protective finish coatings, etc. Serial No. 524,931, Sept. 2. Class 12.

Astor, Samuel, doing business under the name and style of Samuel Astor Company, Philadelphia, Pa. Women's dresses. Serial No. 623,820, Sept. 2. Class 39.

Astor, Samuel, Company: *See*—
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Auto-Nailer Company, The: *See*—
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Axelrod, Paul, doing business under the style name of Crowning Glory Co., Chicago, Ill. Home permanent wave kit. Serial No. 602,242, Sept. 2. Class 44.

Baker Laboratories, Inc., The, Cleveland, Ohio. Formula base. Serial No. 626,723, Sept. 2. Class 46

Barber & Bennett, Inc., Albany, N. Y. Dietary supplement. Serial No. 619,734, Sept. 2. Class 18.

Barnaby Manufacturing and Tool Company, Bridgeport, Conn. Drill chucks, knurling tools, tap holders, etc. Serial No. 496,122, Sept. 2. Class 23.

Baughn Chemical Products Co., Chicago, Ill. Chemical impregnated tacky cloth wiper. Serial No. 597,659, Sept. 2. Class 29.

Beck, Arthur, Company, Chicago, Ill. Bulb-type syringe. Serial No. 618,904, Sept. 2. Class 2.

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Blue Bell, Inc., Greensboro, N. C. Men's and boys' overalls, dungarees, outer shirts, etc. Serial No. 622,985, Sept. 2. Class 39.

Blue Bell, Inc., Greensboro, N. C. Men's and boys' overalls, dungarees and outer shirts. Serial No. 622,987–8, Sept. 2. Class 39.

Botany Mills, Inc., Passaic, N. J. Woolen piece goods. Serial No. 628,463, Sept. 2. Class 42.

Bowers Lighter Company, Kalamazoo, Mich., assignor to Brown and Bigelow, St. Paul, Minn. Pyrophoric pocket lighters. Serial No. 623,705, Sept. 2. Class 8.

Bradstone Rubber Company, doing business under the name and style of Park Cement & Chemical Co., Woodbine, N. J. Liquid adhesive cement. Serial No. 618,675, Sept. 2. Class 5.

Bristol-Myers Company, New York, N. Y. Penicillin tooth powder. Serial No. 615,266, Sept. 2. Class 18.

Brogdex Company, Pomona, Calif. Surface treatment of fresh fruits and vegetables. Serial No. 466,299, Sept. 2. Class 103.

Brown and Bigelow, assignee: *See*—
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Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. Serial No. 618,079, Sept. 2. Class 39.

Byron Jackson Co., Los Angeles, Calif. Well tools. Serial No. 582,787, Sept. 2. Class 23.

C-Mail Company, The: *See*—
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Capehart-Farnsworth Corporation, Fort Wayne, Ind. Television receiving sets. Serial No. 612,366, Sept. 2. Class 21.

Capizzi, F., & Sons, Brooklyn, N. Y. Edible olive oil, vegetable cooking oil, and canned tomatoes, etc. Serial No. 618,839, Sept. 2. Class 46.

Carlon Products Corporation, Cleveland, Ohio. Conduits. Serial No. 616,160, Sept. 2. Class 13.

Carrier-Stephens Company, Lansing, Mich. Metal crates. Serial No. 551,227, Sept. 2. Class 2.

Casimir Funk Laboratories, Inc., New York, N. Y. Pharmaceutical preparation. Serial No. 584,394, Sept. 2. Class 18.

Central Petroleum Company, Cleveland, Ohio. Lubricating oils. Serial No. 607,982, Sept. 2. Class 15.

Cetylite Industries, Inc., New York and Long Island City, N. Y. Antiseptic and disinfecting agent. Serial No. 614,241, Sept. 2. Class 18.

Chapman Chemical Company, Memphis, Tenn. Wood preservatives. Serial No. 615,754, Sept. 2. Class 6.

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Chilean Nitrate Sales Corporation, New York, N. Y. Nitrate of soda-potash. Serial No. 615,819, Sept. 2. Class 6.

Church Chemical Company, Chicago, Ill. Medicinal product. Serial No. 617,535, Sept. 2. Class 18.

Club Aluminum Products Company, Chicago, Ill. Drip coffee makers, percolators and vacuum coffee makers. Serial No. 613,868, Sept. 2. Class 13.

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Columbian Steel Tank Company, Kansas City, Mo. Respirators. Serial No. 578,376, Sept. 2. Class 44.

Colure, Incorporated, Detroit, Mich. Services rendered primarily to professional photographers. Serial No. 614,473, Sept. 2. Class 106.

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Cresthaven Farms, Inc., St. Paul, Minn. Frozen sweet cream buttermilk product. Serial No. 618,229, Sept. 2. Class 46.

Crowning Glory Co.: *See*—
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Cuno Engineering Corporation, The, Meriden, Conn. Mechanical fluid straining and filtering apparatus and parts thereof. Serial No. 598,836, Sept. 2. Class 31.

Cuno Engineering Corporation, The, Meriden, Conn. Mechanical fluid straining and filtering apparatus and parts thereof. Serial No. 598,895, Sept. 2. Class 31.

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Davis, Denver J., Staunton, Va. Stimulating interest in religious matters, etc. Serial No. 624,531, Sept. 2. Class 100.

Diamond Match Company, The, New York, N. Y. Clothespins. Serial No. 588,280, Sept. 2. Class 24.

Dods, H. H. C., Proprietary Limited, trading as Staley & Staley, Brunswick, near Melbourne, Victoria, Australia. Hosiery and ties. 616,226, Sept. 2. Class 39.

Donat, Dr., Eugene, Toronto, Ontario, Canada. Ferment (enzyme) preparations. Serial No. 620,078, Sept. 2. Class 18.

Edison, Thomas A., Incorporated, West Orange, N. J. Storage batteries. Serial 617,237, Sept. 2. Class 21.

Ely & Walker Dry Goods Company, St. Louis, Mo. Handkerchiefs. Serial No. 605,355, Sept. 2. Class 39.

Federated Department Stores, Inc., Cincinnati, Ohio, assignee of The F. & R. Lazarus & Company. Men's suits and overcoats. Serial No. 591,629, Sept. 2. Class 39.

Ferrie, Joseph, doing business under the name of Joseph Ferrie, Distributors, Providence, R. I. Electrical apparatus for generating radio frequencies for the removal of human hair from the body. Serial No. 603,988, Sept. 2. Class 44.

Ferrie, Joseph, Distributors: *See*— Ferrie, Joseph.

Fine Foods, Inc., Seattle, Wash. Canned fresh frozen concentrated orange juice. Serial No. 625,007, Sept. 2. Class 46.

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Gas & Oil Industry Laboratories Incorporated, Irvington, N. J. Gas appliance check valves and pressure valve regulators. Serial No. 606,141, Sept. 2. Class 13.

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General Control Company, Boston, Mass. Electrical switches. Serial No. 603,524, Sept. 2. Class 21.

General Motors Corporation, Detroit, Mich. Domestic refrigerators and parts thereof. Serial No. 623,137, Sept. 2. Class 31.

Gerber Bros., Brooklyn, N. Y. Canned fruit, canned vegetables, canned fish, etc. Serial No. 603,364, Sept. 2. Class 46.

Geriatric Pharmacal Company, The, assignor to The Geriatric Pharmacal Corp., New York, N. Y. Product, in tablet form, for reduction of cholesterol in arteries. Serial No. 624,641–2, Sept. 2. Class 18.

Geriatric Pharmacal Corp., The, assignee: *See*— Geriatric Pharmacal Company, The.

Goldstein Millinery Company, Chicago, Ill. Ladies' and misses' hats. Serial No. 614,552, Sept. 2. Class 39.

Grand Chapter of Phi Sigma Kappa, The, Chicago, Ill. Organizing of chapters in a national collegiate fraternity. Serial No. 599,761, Sept. 2. Class 100.

Gregory and House, Inc., Cleveland, Ohio. Advertising and promoting the goods and services of others. Serial No. 616,095, Sept. 2. Class 101.

Grout & Company Limited, Great Yarmouth, Norfolk, England. Unmedicated bandages and abdominal binders or supports. Serial No. 622,257, Sept. 2. Class 44.

Gumakers of America, Inc., Clifton Heights, Pa. Chewing gum. Serial No. 553,851, Sept. 2. Class 46.

Hale's Bedding Stores, Inc., New York, N. Y. Electrical lighting fixture. Serial No. 617,991, Sept. 2. Class 21.

Harris Smith, Inc., New York, N. Y. Men's and boys' outer shirts. Serial No. 582,622, Sept. 2. Class 39.

Hayes Inventive Research Corporation, Weston, Mass. Baby teethers. Serial No. 622,698, Sept. 2. Class 44.

Heeman Manufacturing Co., Wooster, Ohio. Soil fertilizers. Serial No. 597,208, Sept. 2. Class 10.

Herbert Charles & Co., Inc., New York, N. Y. Real estate brokerage and rental agency services. Serial No. 617,363, Sept. 2. Class 102.

Hoffman Radio Corporation, Los Angeles, Calif. Television receiving sets. Serial No. 611,844, Sept. 2. Class 21.

Hoffmann-La Roche Inc., Nutley, N. J. Antihypertension compound. Serial No. 624,742, Sept. 2. Class 18.

Hollingshead, R. M., Corporation, Camden, N. J. Lubricating oils. Serial No. 624,540, Sept. 2. Class 15.

Huber, J. M., Corporation, Red Bank, N. J., and New York, N. Y. Clay. Serial No. 594,125, Sept. 2. Class 1.

Ice-Kist Packing Company, assignor to Kirby and Little Packing Company, Salinas, Calif. Fresh carrots. Serial No. 601,675, Sept. 2. Class 46.

International Dairy Engineering Company, Oakland, Calif. Dairy products. Serial No. 619,465, Sept. 2. Class 46.

International Packers Commercial Co. Inc., assignor to International Packers Limited, Chicago, Ill. Potted meat, deviled ham, Vienna sausages, etc. Serial No. 583,397, Sept. 2. Class 46.

International Packers Limited, assignee: *See*— International Packers Commercial Co. Inc.

Jackson-Mitchell Pharmaceuticals, Inc., Los Angeles, Calif. Lipotropic formula preparation. Serial No. 624,950, Sept. 2. Class 18.

Kalamazoo Pant Company, Kalamazoo, Mich. Slacks. Serial No. 621,069, Sept. 2. Class 39.

Kaylon, Incorporated, New York, N. Y. Ladies' and girls' pajamas, pajama coats, beach coats, etc. Serial No. 593,803, Sept. 2. Class 39.

Kellogg Switchboard and Supply Company, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company. Electrical apparatus, machines, and supplies, etc. Serial No. 601,735, Sept. 2. Class 21.

Kennedy, James J., Newark, N. J. Antiseptic massage oil. Serial No. 624,687, Sept. 2. Class 18.

Kenffel & Esser Company, Hoboken, N. J. Mensuring and scientific appliances—namely, drawing instruments, comprising compasses, dividers, etc. Serial No. 525,878, Sept. 2. Class 26.

Kidde, Walter, & Company, Inc., Belleville, N. J. Fire detecting apparatus. Serial No. 617,298, Sept. 2. Class 23.

King Refrigerator Corporation, Glendale, N. Y. Ice and electric refrigerators. Serial No. 592,819, Sept. 2. Class 31.

Kingston, F. C., Company, Los Angeles, Calif. Valves. Serial No. 611,959, Sept. 2. Class 13.

Kirby and Little Packing Company, assignee: *See*— Ice-Kist Packing Company.

Kirk, Bill, Mfg. Co.: *See*— Kirk, William M.

Kirk, William M., doing business under the name of Bill Kirk Mfg. Co., Amarillo, Tex. Automatic, stationary, mechanical livestock oilers and insecticide applicators. Serial No. 624,785, Sept. 2. Class 23.

Kleinert, I. B., Rubber Company, New York, N. Y. Waterproof infants' pants. Serial No. 610,365, Sept. 2. Class 39.

Koch, Max, and Son, Inc., New York, N. Y. Fur jackets, stoles and boleros. Serial No. 624,340, Sept. 2. Class 39.

Koesling, Grete, assignor to Your Birth-Sign, Inc., New York, N. Y. Women's and misses' bathing suits, slacks, blouses, etc. Serial No. 615,122, Sept. 2. Class 39.

Kraissl Company, Inc., The, Hackensack, N. J. Air strainers, strainers for oils, steam, gasoline, grease extraction, etc. Serial No. 587,876, Sept. 2. Class 13.

Kreider, A. S., Co., The, Lebanon, Pa. Misses', girls', boys', men's, women's and children's shoes. Serial No. 591,490, Sept. 2. Class 39.

Krementz & Company, Newark, N. J. Articles of jewelry. Serial No. 608,070, Sept. 2. Class 28.

Kress, S. H., and Company, New York, N. Y. Razor blades. Serial No. 624,438, Sept. 2. Class 23.

Kurth, Fred F., Bakersfield, Calif. Storage batteries. Serial No. 613,376, Sept. 2. Class 21.

Larson, Werner J., doing business as The Ohmweve Company, West Hartford, Conn. Electrical resistors. Serial No. 615,231, Sept. 2. Class 21.

Las Vegas Chamber of Commerce, Inc., Las Vegas, Nev. Recommending hotels, motels, restaurants, and clubs to the traveling public, etc. Serial No. 579,437, Sept. 2. Class 101.

Lazarus, F. & R., & Company, The: *See*— Federated Department Stores, Inc.

Lebanon Jersey Corporation, New York, N. Y. Woolen fabrics in the piece. Serial No. 627,584, Sept. 2. Class 42.

Le Creuset, Fresnoy-Le-Grand (Aisne), France. Household iron ware, cooking iron ware, household enamcled iron ware, etc. Serial No. 620,810, Sept. 2. Class 13.

Lifetime Cookware: *See*— Reynolds Metals Company.

Lindeteves Inc., New York, N. Y. Portable electric drills and portable electric drill stands, hand supported portable electric sanders, etc. Serial No. 617,505, Sept. 2. Class 21.

Locatelli, Inc., New York, N. Y. Cheese. Serial No. 612,173, Sept. 2. Class 46.

Lowe, Joe, Corporation, New York, N. Y. Frozen confections on sticks and liquid concentrates. Serial No. 613,929, Sept. 2. Class 46.

Luer Bros. Packing & Ice Company, Alton, Ill. Cured sliced bacon. Serial No. 608,011, Sept. 2. Class 46.

Makers of Kal, Inc., Los Angeles, Calif. Protein hydrolysate. Serial No. 614,703, Sept. 2. Class 18.

Manahan Moth Paper Company, New York and Brooklyn, N. Y. Paper garment bags. Serial No. 585,756, Sept. 2. Class 2.

Marinette Knitting Mills, Marinette, Wis. Women's and children's sweaters. Serial No. 582,089, Sept. 2. Class 39.

Martin and Pledger, Chicago, Ill. Liquid preparation for pains due to sprained muscles, etc. Serial No. 618,239, Sept. 2. Class 18.

Mason, Au & Magenheimer Conf. Mfg. Co., Mineola, N. Y. Candies. Serial No. 622,346, Sept. 2. Class 46.

McGraw Electric Company, Milwaukee, Wis. Repair and rebuilding of electrical transformers and the installation of parts therefor. Serial No. 602,962, Sept. 2. Class 103.

Mead Johnson & Company, Evansville, Ind. Food product. Serial No. 586,420, Sept. 2. Class 46.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Estrogenic preparation. Serial No. 624,495, Sept. 2. Class 18.

Miron Mills, Inc., Clinton, Mass. Woolen piece goods. Serial No. 628,503, Sept. 2. Class 42.

National Automotive Parts Association, Detroit, Mich. Electrical cords, wires, and cables, etc. Serial No. 576,098, Sept. 2. Class 21.

National Rayon Dyeing Company, Incorporated, Newark, N. J. Filaments of synthetic fibers. Serial No. 611,104, Sept. 2. Class 43.

Neatform Co. Inc., The, New York, N. Y. Foundation garments, girdles and brassières. Serial No. 528,302, Sept. 2. Class 39.

Norcross, Sterling E., doing business as The C-Mail Company, Bloomfield, N. J. Plastic container. Serial No. 624,243, Sept. 2. Class 2.

North Penn Company, Inc., assignee: *See*— Riesgo, Ralph A.

Oakley, Annie, Enterprises, assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif. Women's and girls handbags, wallets and school bags. Serial No. 621,645, Sept. 2. Class 3.

Oakley, Annie, Enterprises, Inc., assignee: *See*— Oakley, Annie, Enterprises.

Ohmweve Company, The: *See*— Larson, Werner J.

Originalities of New York, Inc., New York, N. Y. Children's, teen-agers' and ladies' necklaces, wrist bracelets, ankle bracelets, etc. Serial No. 622,450, Sept. 2. Class 28.

Paradise, Paul R., doing business as "Dav" Razor Blade Co., Chicago, Ill. Razor blades. Serial No. 624,566, Sept. 2. Class 23.

Park Cement & Chemical Co.: *See*— Bradstone Rubber Company.

Patman, Urban N., Inc., Los Angeles, Calif. Ground beef, jellied corned beef loaf, jellied cooked beef loaf, etc. Serial No. 603,412, Sept. 2. Class 46.

Patman, Urban N., Inc., Los Angeles, Calif. Pure pork links, imitation chicken loaf, and cured ham. Serial No. 603,413, Sept. 2. Class 46.

Patman, Urban N., Inc., Los Angeles, Calif. Meat products. Serial No. 603,414, Sept. 2. Class 46.

Payne Furnace Company, Beverly Hills, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Gas-fired, warm air heating equipment. Serial No. 564,349, Sept. 2. Class 34.

Peters & Russell, Inc., Springfield, Ohio. Automobile exhaust extensions. Serial No. 589,390, Sept. 2. Class 23.

Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y. Electrical apparatus. Serial No. 611,719, Sept. 2. Class 21.

Probst & Co., Langnau, Switzerland. Cheese. Serial No. 573,501, Sept. 2. Class 46.

Public Accountants Society of Ohio, Columbus, Ohio. Accounting and auditing services. Serial No. 529,296, Sept. 2. Class 101.

R. S. C. Co., Wooster, Ohio, and Saginaw, Mich. Packaged ice cream. Serial No. 621,376, Sept. 2. Class 46.

Raytheon Manufacturing Company, Newton, Mass. Radio broadcast receivers, television receivers and radio, television, and phonograph combinations. Serial No. 614,841, Sept. 2. Class 21.

Reid, Rose Marie, Los Angeles, Calif. Swim suits. Serial No. 607,763, Sept. 2. Class 39.

Reinhardt, Paul L., Burlington, Wis. Fur garments. Serial No. 620,363, Sept. 2. Class 39.

Reserve Life Insurance Company, Dallas, Tex. Underwriting of life, health, accident and hospitalization insurance protection. Serial No. 615,574, Sept. 2. Class 102.

Reynolds Metals Company, Richmond, Va., do'ng business under the trade name Lifetime Cookware, La Grange, Ill. Cooking utensils. Serial No. 584,837, Sept. 2. Class 13.

Rice Grain Company, The, Toledo, Ohio. Oats. Serial No. 625,693, Sept. 2. Class 46.

Richardson Butane Gas Company, Inc., Columbus, Miss. Butane and propane gas. Serial No. 621,906, Sept. 2. Class 6.

Riesgo, Margaret G., executrix: *See*— Riesgo, Ralph A.

Riesgo, Ralph A., New York, N. Y.; M. G. Riesgo, executrix of said R. A. Riesgo, deceased, assignor to North Penn Company, Inc., Freeport, N. Y. Refrigerated beverage dispensing cabinets. Serial No. 589,803, Sept. 2. Class 31.

Rogers, Russell H., Corporation, Detroit, Mich. Cheese flavored coating. Serial No. 616,969, Sept. 2. Class 46.

Rose Brothers, Inc., New York, N. Y. Men's suits, coats, trousers, etc. Serial No. 620,274, Sept. 2. Class 39.

Rubel & Company Decorative Accessories, Inc., New York, N. Y. Serving dishes. Serial No. 622,957, Sept. 2. Class 30.

Rubinstein, Helena, Inc., New York, N. Y. Ladies' handbags, fitted cases for cosmetics and toiletries, ladies' evening bags. Serial No. 614,719, Sept. 2. Class 3.

Salsbury's, Dr., Laboratories, Charles City, Iowa. Preparation for the treatment of poultry diseases, etc. Serial No. 614,392, Sept. 2. Class 18.

Salvador, Adib Canen, Buenos Aires, Argentina. Knitted fabrics. Serial No. 615,346, Sept. 2. Class 42.

Sanson Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. Serial No. 605,175, Sept. 2. Class 39.

Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical preparations. Serial No. 600,513, Sept. 2. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Penicillin product. Serial Nos. 624,852–3, Sept. 2. Class 18.

Schering Corporation, Bloomfield, N. J. Anabolic agent. Serial No. 607,300, Sept. 2. Class 18.

Schering Corporation, Bloomfield, N. J. Hormone preparation. Serial No. 618,820–1, Sept. 2. Class 18.

Schieffelin & Co., New York, N. Y. Antispasmodic. Serial No. 626,539, Sept. 2. Class 18.

Schofield Corp., The, Philadelphia, Pa. Men's and boys' underwear, hosiery and sportswear. Serial No. 620,112, Sept. 2. Class 39.

Schwab, A. G., & Sons, Inc., Cincinnati, Ohio. Jewelry. Serial No. 623,565, Sept. 2. Class 28.

Schwab, Armand, & Co., Inc., New York, N. Y. Millinery braids. Serial No. 611,374, Sept. 2. Class 40.

Scripps-Howard Radio, Inc., doing business as Television Station WEWS, Cincinnati, Ohio. Entertainment service and advertising the goods and services of others. Serial No. 567,543, Sept. 2. Class 101.

Seal Sac Inc., New York, N. Y. Portable plastic-film covered clothes closets. Serial No. 624,371, Sept. 2. Class 32.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Medicinal preparation. Serial No. 622,625, Sept. 2. Class 18.

Shotwell Mfg. Co., The, Chicago, Ill. Candy. Serial No. 610,234, Sept. 2. Class 46.

Signal Electric Manufacturing Co., Menominee, Mich. Electric ventilating fans. Serial No. 606,178, Sept. 2. Class 34.

Silby Chemical Corporation, Miami, Fla. Cleaning preparation. Serial No. 601,577, Sept. 2. Class 52.

Smith Furniture Manufacturing Company, Waco, Tex. Platform rocker. Serial No. 563,636, Sept. 2. Class 32.

Société à Responsabilité Limitée Viellard-Migeon & Co., Morvillars (Ter. de Belfort), France. Fishing devices and accessories. Serial No. 594,812, Sept. 2. Class 22.

Southwestern Petroleum Co., Inc., Fort Worth, Tex. High temperature resistant grease. Serial No. 624,426, Sept. 2. Class 15.

Speed Products Company, Inc., Long Island City, N. Y. Stapling machines, pliers, and/or tackers, etc. Serial No. 544,785, Sept. 2. Class 23.

Sprouse, V. E., Company, Inc., Columbus, Ind. Ventilating fans. Serial No. 623,019, Sept. 2. Class 34.

Squibb, E. R., & Sons, New York, N. Y. Anticonvulsants. Serial No. 609,610, Sept. 2. Class 18.

Squibb, E. R., & Sons, New York, N. Y. Streptomycin preparation. Serial No. 609,611, Sept. 2. Class 18.

Staley & Staley: *See*— Dods, H. H. C., Proprietary Limited.

Standard Water Softener Company: *See*— Tyler, Joan.

Standard Western Company: *See*— Tyler, Joan.

Stokes and Smith Company, Philadelphia, Pa. Packaging machines. Serial No. 575,677–8, Sept. 2. Class 23.

Strong, Cobb and Company, Inc., Cleveland, Ohio. Ergot preparation. Serial No. 614,070, Sept. 2. Class 18.

Stylord Manufacturing Co., Inc., New York, N. Y. Watch bands. Serial No. 622,178–9. Sept. 2. Class 28.

Sullivan, Ray, San Francisco, Calif., assignor to Bikini Blanket Co., Inc. Protective garments. Serial No. 610,808. Sept. 2. Class 39.

Sunkist Growers, Inc., Los Angeles, Calif. Fresh citrus fruits. Serial No. 626,008. Sept. 2. Class 46.

Supreme Pants Co. Inc., New York, N. Y. Men's and boys' pants, slacks and jackets. Serial No. 624,175, Sept. 2. Class 39.

Swank, Inc., Attleboro, Mass. Collar holders, cravat holders, cuff links, etc. Serial No. 623,321, Sept. 2. Class 28.

Switzer Brothers, Inc., Cleveland, Ohio. Men's, women's and children's wearing apparel. Serial No. 618,774, Sept. 2. Class 39.

Takamine Laboratory, Inc., Clifton, N. J. Enzyme preparation for the cleaning of fabrics, etc. Serial No. 618 013. Sept. 2. Class 52.

Tam O'Shanter Sportswear, Inc., Manchester, N. H. Infants' and children's pajamas. Serial No. 609,190, Sept. 2. Class 39.

Television Station WEWS: *See*— Scripps-Howard Radio, Inc.

Texas Harvest Hat Company, Laredo, Tex. Men's, ladies' and children's hats. Serial No. 624,215, Sept. 2. Class 39.

Thompson Tool Company, Iowa Park, Tex. Shale separators, mud mixers, rock bits, etc. Serial No. 594,296, Sept. 2. Class 23.

Thor Corporation, Chicago, Ill. Fluid discharge apparatus. Serial No. 542,186, Sept. 2. Class 23.

Tisch, Frank, Inc., New York, N. Y. Ladies' dresses. Serial No 624,165, Sept. 2. Class 39.

Tongue, R. E., & Bros. Co., Inc., Philadelphia, Pa. Paper and metal bottom cartons. Serial No. 618,219, Sept. 2. Class 2.

Trison Manufacturing Co., Jersey City and Newark, N. J. Lathe parts. Serial No. 614,372, Sept. 2. Class 23.

Tyler, Joan, doing business as Standard Western Company, and as Standard Water Softener Company, Los Angeles, Calif. Water softener apparatus. Serial No. 613,855, Sept. 2. Class 31.

Union Bay State Chemical Co., Inc., Cambridge, Mass. Natural and synthetic rubber latex adhesives, natural and synthetic resin adhesives, adhesive cement, and solvents. Serial No. 614,226, Sept. 2. Class 5.

United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics in the piece. Serial No. 612,773, Sept. 2. Class 106.

United Merchants and Manufacturers, Inc., New York, N. Y. Finishing of textile fabrics in the piece. Serial No. 615,585, Sept. 2. Class 106.

United States Rubber Company, New York, N. Y. Hose made of rubber and fabric. Serial No. 628,726, Sept. 2. Class 35.

Universal Mutual Casualty Company, Chicago, Ill. Underwriting of accident and health insurance. Serial No. 614,675, Sept. 2. Class 102.

Universal Refining Products Co., Inc., New York, N. Y. Chemical compound for removing sludge from fuel, etc. Serial No. 617,683, Sept. 2. Class 15.

Utica Mutual Insurance Company, Utica, N. Y. Underwriting of casualty insurance. Serial No. 554,275, Sept. 2. Class 102.

Valley Growers Packing Company, Turner, Kans. Fresh vegetables. Serial No. 626,765, Sept. 2. Class 46.

Vendorlator Manufacturing Company, Fresno, Calif. Vending machines. Serial No. 615,091, Sept. 2. Class 23.

Vico Products Company, Chicago, Ill. Yeast autolysate. Serial No. 626,013, Sept. 2. Class 46.

Wagner Tool & Supply Corp., Long Island City, N. Y. Solvent. Serial No. 586,211, Sept. 2. Class 52.

Wampole, Henry K., & Company, Incorporated, Philadelphia, Pa. Compound of meth-dia-mer sulfonamides with sodium citrate. Serial No. 618,995, Sept. 2. Class 18.

Watts Regulator Co., Lawrence, Mass. Pressure regulator safety devices. Serial No. 565,984, Sept. 2. Class 13.

Weiner, Martin, Corp., New York, N. Y., and Clifton, N. J. Textile fabrics in the piece. Serial No. 614,374, Sept. 2. Class 42.

West Disinfecting Company, Long Island City, N. Y. Chemical preparations. Serial No. 621,042, Sept. 2. Class 6.

Westfeldt Brothers, New Orleans, La. Green coffee. Serial No. 618,186, Sept. 2. Class 46.

White Laboratories, Inc., Newark, N. J. Preparation containing a combination of dienestrol and methyltestosterone. Serial No. 614,734, Sept. 2. Class 18.

Wyeth Incorporated, Philadelphia, Pa. Amphetaminemultivitamin troches. Serial No. 620,286, Sept. 2. Class 18.

Your Birth-Sign, Inc., assignee: *See*—
Koesling, Grete.

LIST OF REGISTRANTS OF TRADE-MARKS

A & H Doll Manufacturing Corp., Woodside, N. Y. Dolls. 563,613, Sept. 2; Serial No. 617,102, published June 17, 1952. Class 22.

Abbott Laboratories, North Chicago, Ill. Oral preparation intended to increase the absorption of fat in the human body. 563,627, Sept. 2; Serial No. 607,787, published May 13, 1952. Class 18.

Ackerman, William G., and Company, Atlanta, Ga. Eyeglass case holder. 563,716, Sept. 2; Serial No. 673,747. Class 13.

Acme Shear Company, The, Bridgeport, Conn. Domestic or household scissors and shears. 563,608, Sept. 2; Serial No. 616,217, published May 27, 1952. Class 23.

Alamac Knitting Mills, Inc., New York, N. Y. Baby panties, baby bloomers, creepers. 563,564, Sept. 2; Serial No. 599,738, published June 3, 1952. Class 39.

Allied Laboratories, Inc., doing business as Pitman-Moore Co., Indianapolis, Ind. Antacid preparations. 563,533, Sept. 2; Serial No. 569,418, published June 3, 1952. Class 18.

Allied Manufacturing, Inc., Cleveland, Ohio. Bowling game apparatus. 563,552, Sept. 2; Serial No. 591,761, published June 10, 1952. Class 22.

Allied Mills, Inc., Chicago, Ill. Poultry feed. 563,682, Sept. 2; Serial No. 623,529, published May 20, 1952. Class 46.

Alpha Kappa Kappa Fraternity, Columbus, Ohio. Advancement of medical science and the promotion of good fellowship among the members of its chapters. 563,711, Sept. 2; Serial No. 590,570, published June 17, 1952. Class 100.

American Bitumuls Company, Wilmington, Del., and San Francisco, Calif. Surfacing material. 552,651, Jan. 1, 1952. Amended. O. G. Sept. 2. Class 12.

American Cordage & Paper Corp., New York, N. Y. Twine. 563,737, Sept. 2; Serial No. 610,305. Class 7.

American Dietaids Company, Inc., Yonkers, N. Y. Low-calorie dietary aid. 563,657, Sept. 2; Serial No. 619,374, published June 3, 1952. Class 18.

American Luggage Works, Inc., Providence, R. I. Hand luggage. 563,740, Sept. 2; Serial No. 613,580. Class 3.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Twisted jute packing for pipe joints. 563,614, Sept. 2; Serial No. 617,479, published June 3, 1952. Class 35.

American Rolling Mill Company, The, Middletown, Ohio, now by change of name Armco Steel Corporation. Ferrous metal pipe and ferrous metal pipe fittings; etc. 563,516, Sept. 2; Serial No. 527,742, published Nov. 20, 1951. Class 13.

Anahist Co. Inc., Yonkers, N. Y. Antihistaminic spray preparation. 563,567, Sept. 2; Serial No. 600,529, published May 13, 1952. Class 18.

Anderson, Alfred: *See*—
Anderson Chemical Company, The.

Anderson Chemical Co.: *See*—
Anderson Chemical Company, The.

Anderson Chemical Company, The, Litchfield, Minn., assignee of Alfred Anderson, doing business as Anderson Chemical Co. Washing powders and liquid soap. 563,517, Sept. 2; Serial No. 529,531, published May 7, 1952. Class 52.

Anderson, Howard W., Stewartstown, Pa. Fresh and canned tomatoes, apples, and peaches. 224,972, Mar. 8, 1927. Amended. O. G. Sept. 2. Class 46.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipstick, rouge, face powder, body powder, etc. 563,632, Sept. 2; Serial No. 609,470, published June 3, 1952. Class 51.

Argonaut Mills, Milwaukee, Wis. Knitted pile fabric. 563,669, Sept. 2; Serial No. 620,992, published June 10, 1952. Class 42.

Associated Brands, Inc., Brooklyn, N. Y. Face lotion. 563,535, Sept. 2; Serial No. 574,947, published June 3, 1952. Class 51.

Aurora Equipment Company, doing business as Equipto Division of Aurora Equipment Co., Aurora, Ill. Steel shelving units, vertical parts bins, and service counters. 563,553, Sept. 2; Serial No. 591,906, published June 10, 1952. Class 32.

Automatic Controls Corporation, Ann Arbor, Mich. Detergent tablets. 563,600, Sept. 2; Serial No. 613,113, published June 10, 1952. Class 52.

Barker, Percy, San Mateo, Calif. Fruit and berry preserves. 563,522, Sept. 2; Serial No. 549,871, published Apr. 8, 1952. Class 46.

Barricini, Inc., New York and Long Island City, N. Y. Candy. 563,680, Sept. 2; Serial No. 622,767, published June 17, 1952. Class 46.

Beam, James B., Distilling Co., Chicago, Ill. Whiskey. 563,725, Sept. 2; Serial No. 596,149. Class 49.

Behr-Manning Corporation, Troy, N. Y. Adhesives. 563,661, Sept. 2; Serial No. 620,390, published June 10, 1952. Class 5.

Belluomini & Klein, Walnut Grove, to A. E. Gianelli, Stockton, Calif. Fresh vegetables. 295,989, renewed July 19, 1952. O. G. Sept. 2. Class 46.

Berg Manufacturing & Sales Co., Chicago, Ill. Electrical connectors. 563,732, Sept. 2; Serial No. 602,884. Class 21.

Birbeck, F. V., Co.: *See*—
Birbeck, F. V.

Birbeck, F. V., to F. V. Birbeck Co., Watsonville, Calif. Fresh vegetables. 298,257, renewed Oct. 18, 1952. O. G. Sept. 2. Class 46.

Bird & Son, inc., East Walpole, Mass. Hard-surface composition tile floor covering. 563,576, Sept. 2; Serial No. 602,742, published June 3, 1952. Class 12.

Bon Aire Specialties: *See*—
Kepler, Edward J.

Bonewitz Chemicals, Inc., Burlington, Iowa. Detergents. 563,543, Sept. 2; Serial No. 582,672, published May 27, 1952. Class 52.

Bradford Dyeing Association (U. S. A.) Westerly, R. I., and New York, N. Y. Services rendered manufacturers of all kinds of fabrics. 563,708, Sept. 2; Serial No. 619,071, published June 17, 1952. Class 106.

Brecht Candy Co.: *See*—
Brecht Candy Company.

Brecht Candy Company, Denver, Colo., assignee of Brecht Candy Co. Candy. 563,520, Sept. 2; Serial No. 541,399, published June 10, 1952. Class 46.

Brendel, David C., Philadelphia, Pa. Candy coated colored potato chips. 563,662, Sept. 2; Serial No. 620,393, published May 20, 1952. Class 46.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin product. 563,620, Sept. 2; Serial No. 606,748, published June 17, 1952. Class 18.

Bruckner Chemists, New York, N. Y. Preparation for the treatment of athlete's foot. 563,578, Sept. 2; Serial No. 603,400, published May 13, 1952. Class 18.

Buckley, W. K., Inc., Buffalo, N. Y. Cough syrup. 563,655, Sept. 2; Serial No. 619,331, published June 3, 1952. Class 18.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics. 563,625, Sept. 2; Serial No. 607,484, published June 10, 1952. Class 42.

Casting Repair Service, Oklahoma City, Okla. Repair of metal castings. 563,703, Sept. 2; Serial No. 608,917, published June 17, 1952. Class 103.

Chemectron Corporation, Washington, D. C. Chemical research. 563,696, Sept. 2; Serial No. 601,022, published June 17, 1952. Class 100.

Chilcott Laboratories, Inc.: *See*—
Maltine Company, The.

Coicombet Francois & Cie, S. A. R. L., St. Etienne, France. Textile fabrics in the piece, and velvet fabrics and ribbons. 444,718, Sept. 2; Serial No. 526,218, published June 3, 1952. Class 42.

Colorado Milling & Elevator Co., The, doing business under the style name of St. Anthony Flour Mills, Denver, Colo. Wheat flour. 563,531, Sept. 2; Serial No. 564,436, published Apr. 8, 1952. Class 46.

Consolidated Leather Mfg. Co., Inc., New York, N. Y. Wallets, billfolds, handbags, etc. 563,746, Sept. 2; Serial No. 618,084. Class 3.

Continental Can Company Inc., New York, N. Y. Decorative laminated plastic sheets. 553,791, Jan. 22, 1952. Amended. O. G. Sept. 2. Class 12.

Cosby-Hodges Milling Co. Inc., Birmingham, Ala. Wheat flour. 297,557, renewed Sept. 20, 1952. O. G. Sept. 2. Class 46.

Crookston Milling Co., Crookston, Minn. Whole wheat cooked breakfast food. 563,519, Sept. 2; Serial No. 540,390, published Jan. 22, 1952. Class 46.

Crown Can Company, Philadelphia, Pa. Metal cans. 563,534, Sept. 2; Serial No. 574,822, published June 10, 1952. Class 2.

Culpeper House Limited, London, England. Shampoos and perfumed soap. 563,629, Sept. 2; Serial No. 607,894, published June 10, 1952. Class 52.

Davies-Young Soap Company, The, Dayton, Ohio. Cleaner for floor scrubbing solutions. 563,577, Sept. 2; Serial No. 603,355, published June 10, 1952. Class 52.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 563,686, Sept. 2; Serial No. 624,472, published June 10, 1952. Class 42.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 563,687, Sept. 2; Serial No. 624,475, published June 10, 1952. Class 42.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 563,688, Sept. 2; Serial No. 624,477, published June 10, 1952. Class 42.

Dennis, S., Inc., New York, N. Y. Men's shirts. 563,724, Sept. 2; Serial No. 590,495. Class 39.

Dill Manufacturing Company, The, Cleveland, Ohio. Valve insides and valve caps for valve stems. 563,719, Sept. 2; Serial No. 583,681. Class 13.

Di Santo & Company: *See*—
Di Santo, Joseph.

Di Santo, Joseph, doing business as Di Santo & Company, Duluth, Minn. Food flavors; also canned asparagus, etc. 297,622, renewed Sept. 20, 1952. O. G. Sept. 2. Class 46.

Dunbar Furniture Manufacturing Company, Berne, Ind. Upholstery fabrics. 563,525, Sept. 2; Serial No. 556,562, published June 10, 1952. Class 42.

Eastern Clay Products, Incorporated, Jackson, Ohio, assignor to International Minerals & Chemical Corporation, Chicago, Ill. Patching and ramming refractories. 563,580, Sept. 2; Serial No. 604,525, published June 3, 1952. Class 12.

Economy Silo & Mfg. Co., The, Frederick, Md., to J. C. Snavely & Sons, Inc., Landisville, Pa. Silos. 296,730, renewed Aug. 16, 1952. O. G. Sept. 2. Class 2.

Emmons Loom Harness Co., Lawrence, Mass. Reeds, and dents for reeds for textile looms. 563,609, Sept. 2; Serial No. 616,535, published May 27, 1952. Class 23.

Ensco Mfg. Co.: *See*—
Stange, Edward N.

Equipto Division of Aurora Equipment Co.: *See*—
Aurora Equipment Company.

Eureka Williams Corporation, Bloomington, Ill. Dirt collecting receptacles. 563,538, Sept. 2; Serial No. 578,578, published June 10, 1952. Class 2.

Everedy Company, The, Frederick, Md. Metallic hollow ware. 563,727, Sept. 2; Serial No. 599,866. Class 13.

Fabricon, Austin, Tex. Prefabricated storage cabinets. 563,530, Sept. 2; Serial No. 561,980, published Mar. 14, 1950. Class 32.

Falls Company, The, Norwich, Conn. Cotton awning fabrics and cloths. 394,737, Apr. 28, 1942. Amended. O. G. Sept. 2. Class 42.

Federated Department Stores, Inc., Cincinnati, Ohio. Garden hose and rubber vehicle tires. 563,685, Sept. 2; Serial No. 624,404, published June 3, 1952. Class 35.

Fenn Bros., Inc., assignee: *See*—
Trudeau Candies, Inc.

Ferry-Morse Seed Co.: *See*—
Morse, C. C., & Co.

Ferry-Morse Seed Co., Mountain View, Calif. Grass seed. 423,005, Aug. 20, 1946. Republished Sept. 2. Class 1.

Fibre Board Container Corporation, Richmond, Va. Corrugated fibre board shipping boxes and solid fibre board shipping boxes. 563,560, Sept. 2; Serial No. 597,602, published June 10, 1952. Class 2.

Fidelity Machine Company, Inc., Philadelphia, Pa. Knitted and woven outerwear. 563,710, Sept. 2; Serial No. 616,818, published June 10, 1952. Class 39.

Fine Maid Sales: *See*—
Samph, Herman.

Fischer, Fred M., Beaumont, Calif. Medicinal compound. 563,583, Sept. 2; Serial No. 604,908, published May 13, 1952. Class 18.

Flaming Pit, Inc., The, Denver, Colo. Serving food and beverages in restaurants. 563,698, Sept. 2; Serial No. 603,359, published June 10, 1952. Class 100.

Flying B Honey Co., Delta, Colo. Honey. 563,672, Sept. 2; Serial No. 621,552, published June 10, 1952. Class 46.

Foley & Company, Chicago, Ill. Urinary antiseptic tablets. 563,574, Sept. 2; Serial No. 602,444, published June 17, 1952. Class 18.

Fort Orange Chemical Co., Inc., Albany, N. Y. Adhesive denture powder. 345,096, Apr. 13, 1937. Republished Sept. 2. Class 51.

Fort Orange Chemical Co., Inc., Albany, N. Y. Cleansing powder for dentures. 358,890, July 26, 1938. Republished Sept. 2. Class 51.

Fricke, J. E., Co., The, Philadelphia, Pa. Portable plastic twine holder. 563,550, Sept. 2; Serial No. 590,780, published June 10, 1952. Class 2.

Frigidweld, Inc., assignee: *See*—
Javor, George.

Frosst, Charles E., & Co., Montreal, Quebec, Canada. Pharmaceutical preparations. 563,621, Sept. 2; Serial No. 606,861, published June 3, 1952. Class 18.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics. 563,604, Sept. 2; Serial No. 615,112, published June 10, 1952. Class 42.

Gale Packing Company, Palatka, Fla. Fresh citrus fruits and frozen seafood products. 563,610, Sept. 2; Serial No. 616,557, published June 17, 1952. Class 46.

Gehring Textiles, Inc., New York, N. Y. Textile fabrics. 563,652, Sept. 2; Serial No. 618,849, published June 10, 1952. Class 42.

General Motors Corporation, Detroit, Mich. Metal tubing. 563,729, Sept. 2; Serial No. 602,447. Class 13.

General Refractories Company, Philadelphia, Pa. Refractory brick. 563,640, Sept. 2; Serial No. 611,351, published June 3, 1952. Class 12.

General Refractories Company, Philadelphia, Pa. Hydraulic-setting, chrome-base, castable cement. 563,641, Sept. 2; Serial No. 611,352, published June 3, 1952. Class 12.

Gentner Tackle Co., Garfield, N. J. Artificial fishing lures. 563,607, Sept. 2; Serial No. 616,265, published June 17, 1952. Class 22.

Gianelli, A. E.: *See*—
Belluomini & Klein.

Globe Hoist Company, Des Moines, Iowa. Stationary hydraulic automobile hoist. 563,741, Sept. 2; Serial No. 614,433. Class 23.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires. 563,681, Sept. 2; Serial No. 623,460, published May 27, 1952. Class 35.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires. 563,683, Sept. 2; Serial No. 623,761, published May 27, 1952. Class 35.

Goren Packing Co., Inc., Boston, Mass. Shortening. 563,586, Sept. 2; Serial No. 605,655, published June 17, 1952. Class 46.

Gossard, H. W., Co., The, Chicago, Ill. Girdles, panties, and brassières. 563,615, Sept. 2; Serial No. 617,755, published June 10, 1952. Class 39.

Grainger, W. B., Packing Company to W. B. Grainger Packing Company, Salinas, Calif. Fresh vegetables. 297,637, renewed Sept. 20, 1952. O. G. Sept. 2. Class 46.

Great Falls Meat Company, Great Falls, Mont. Hams, bacon, and luncheon meat. 563,723, Sept. 2; Serial No. 590,154. Class 46.

Greatrex Ltd., New York, N. Y. Hair and clothes brushes. 563,561, Sept. 2; Serial No. 598,362, published June 10, 1952. Class 29.

Griggs, Cooper & Co., also doing business as Sanitary Food Mfg. Co., St. Paul, Minn. Gelatine, cocoa, apple butter, etc. 307,104, Oct. 17, 1933. Republished Sept. 2. Class 46.

Griggs, Cooper & Company, also doing business as Sanitary Food Manufacturing Co., St. Paul, Minn. Coffee and soda crackers. 321,461, Feb. 5, 1936. Republished Sept. 2. Class 46.

Gymer, Frederick E., Cleveland, Ohio. Preparation of advertising and sales promotion material. 563,695, Sept. 2; Serial No. 599,870, published June 10, 1952. Class 101.

Hand Block Textiles, Inc., Los Angeles, Calif. Table cloths and napkins, towels, etc. 563,571, Sept. 2; Serial No. 602,121, published June 3, 1952. Class 42.

Harris Clothing Company, Baltimore, Md. Young men's and students' three and four piece suits, overcoats, and top coats. 296,475, renewed Aug. 9, 1952. O. G. Sept. 2. Class 39.

Harrison, Helen, Candies Company, Chicago, Ill. Candies. 563,623, Sept. 2; Serial No. 607,219, published May 20, 1952. Class 46.

Hauserman, E. F., Company, The, Cleveland, Ohio. Installation, repairing and remodeling of movable interior walls or partitions. 563,699, Sept. 2; Serial No. 603,998, published June 10, 1952. Class 103.

Hoffmann-La Roche Inc., Nutley, N. J. Anticoagulant. 563,637, Sept. 2; Serial No. 611,028, published June 3, 1952. Class 18.

Holeproof Hosiery Company, Milwaukee, Wis. Women's hosiery. 563,606, Sept. 2; Serial No. 616,100, published June 3, 1952. Class 39.

Ideal Pictures Corporation, Chicago, Ill. Leasing of developed motion picture films. 563,693, Sept. 2; Serial No. 583,132, published June 10, 1952. Class 107.

Imperial Brassiere Corp., New York, N. Y. Brassières. 563,745, Sept. 2; Serial No. 616,710. Class 39.

Industrial Trust Company, Providence, R. I. Banking and trust services. 563,692, Sept. 2; Serial No. 559,925, published June 10, 1952. Class 102.

International Furniture Company, Chicago, Ill. Mattresses and box springs. 563,673, Sept. 2; Serial No. 621,558, published June 10, 1952. Class 32.

International Harvester Company, Chicago, Ill. Refrigeration packaging products. 563,541–2. Sept. 2; Serial No. 581,956–7, published June 10, 1952. Class 2.

International Milling Company, Minneapolis, Minn. Flour. 563,638, Sept. 2; Serial No. 611,095, published June 3, 1952. Class 46.

International Minerals & Chemical Corporation, assignee: *See*—
Eastern Clay Products, Incorporated.

Jackson-Wheeler Metals Service, by Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Bearing alloys and white metal alloys. 193,420, Dec. 30, 1924. Republished Sept. 2. Class 14.

Jackson-Wheeler Metals Service, Inc.: *See*—
Jackson-Wheeler Metals Service.

Jaed & Co., Inc., Boston, Mass. Corduroy fabrics. 563,565, Sept. 2; Serial No. 600,286, published June 10, 1952. Class 42.

Javor, George, assignor to Frigidweld, Inc., Chicago, Ill. Repairing cracked castings. 563,690, Sept. 2; Serial No. 527,389, published Sept. 11, 1951. Class 103.

Jones, Bob, University, Greenville, S. C. Furnishing of motion picture films on a lease basis. 563,707, Sept. 2; Serial No. 618,834, published June 10, 1952. Class 107.

Kagran Corporation, New York, N. Y., assignee of R. E. Smith. Toy ceramic piggy banks. 563,556, Sept. 2; Serial No. 595,000, published June 17, 1952. Class 22.

Katz, Jacobson & Paris, Inc., New York, N. Y. Men's and boys' suits. 563,728, Sept. 2; Serial No. 602,320. Class 39.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., by The May Department Stores Company, St. Louis, Mo. Sanitary belts, sanitary aprons, sanitary skirts, etc. 292,070, Mar. 1, 1932. Republished Sept. 2. Class 44.

Kepler, Edward J., doing business under the name of Bon Aire Specialties, Chicago, Ill. Home hair waving supplies. 563,544, Sept. 2; Serial No. 583,539, published June 10, 1952. Class 44.

Kissling, Albert C., Philadelphia, Pa. Sauer kraut and salt mackerel. 563,536, Sept. 2; Serial No. 577,301, published June 17, 1952. Class 46.

Knott, Wm. T., Company, Inc., New York, N. Y. Electric vacuum cleaners, electric waffle irons, etc. 327,868, Sept. 10, 1935. Amended. O. G. Sept. 2. Class 21.

Kolodny, Joseph, Baltimore, Md. Information and instructive service relating to traffic laws and traffic problems. 563,709, Sept. 2; Serial No. 620,607, published June 10, 1952. Class 107.

Krafco Container Corporation, West Monroe, La. Cartons and boxes. 563,539, Sept. 2; Serial No. 580,487, published June 10, 1952. Class 2.

Kralinator Products Limited, Preston, Ontario, Canada. Crankcase ventilation devices. 563,718, Sept. 2; Serial No. 581,599. Class 23.

Krupp, Paul, Inc., New York, N. Y. Men's and boys' sport and dress shirts and ladies' sport shirts. 563,739, Sept. 2; Serial No. 613,465. Class 39.

L. B. Hosiery Co., Inc., Philadelphia, Pa. Ladies' full-fashioned and seamless hosiery. 563,735, Sept. 2; Serial No. 608,936. Class 39.

Landen, Charles J., doing business as Landen Putty Works, assignor to Landen Putty Works, Inc., Malden, Mass. Caulking compound, glazing compound, bowl setting compound, etc. 563,532, Sept. 2; Serial No. 564,883, published June 3, 1952. Class 12.

Landen Putty Works: *See*—
Landen, Charles J.

Landen Putty Works, Inc., assignee: *See*—
Landen, Charles J.

Larsan Manufacturing Company, The, Columbus, Ohio. Circular saws and hand saws. 563,659, Sept. 2; Serial No. 619,629, published May 13, 1952. Class 23.

Layne-Held Corporation, Higginsville, Mo. Tool for holding hollow work, etc. 563,722, Sept. 2; Serial No. 589,977. Class 23.

Lehon Company, The, Chicago, Ill. Aprons, overall coats, overall pants, etc. 444,716, Sept. 2; Serial No. 520,743, published June 10, 1952. Class 39.

Leona Lingerie Inc., New York, N. Y. Ladies' stockings. 563,587, Sept. 2; Serial No. 605,749, published June 3, 1952. Class 39.

Leslie-James, Los Angeles, Calif. Ladies' hats and clothes. 563,589, Sept. 2; Serial No. 605,961, published Apr. 15, 1952. Class 39.

Los Angeles Soap Company, Los Angeles, Calif. Washing powder. 296,079, renewed July 19, 1952. O. G. Sept. 2. Class 52.

Lowe, Joe, Corporation, New York, N. Y. Baking powder and bicarbonate of soda. 296,798, Aug. 23, 1932. Republished Sept. 2. Classes 6 and 46.

Lynch, Thos. H., near Fresno, to United Packing Co., Fresno, Calif. Fresh grapes. 86,418, re-renewed May 7, 1952. O. G. Sept. 2. Class 46.

M.J.B. Co., Wilmington, Del., and San Francisco, Calif. Coffee, rice and dried beans. 563,677, Sept. 2; Serial No. 622,303, published June 10, 1952. Class 46.

Macdonald & Muir, by Macdonald & Muir Limited, Leith, Scotland. Whisky. 296,461, Aug. 9, 1932. Republished Sept. 2. Class 49.

Macdonald & Muir Limited: *See*—
Macdonald & Muir.

MacLachlan Hats, Incorporated, Norwalk, Conn. Men's fur felt hats. 563,730–1, Sept. 2; Serial No. 602,849–50. Class 39.

Maltine Company, The, Morris Plains, N. J., now by change of name Chilcott Laboratories, Inc. Pharmaceutical product. 563,616, Sept. 2; Serial No. 617,922, published May 13, 1952. Class 18.

Mansfield, Dick: *See*—
Mansfield, Richard H.

Mansfield, Richard H., doing business as Dick Mansfield, Cheverly, Md. Promoting safety among children. 563,704, Sept. 2; Serial No. 610,373, published June 17, 1952. Class 107.

Mason Candy Company, The, Trinidad, Colo. Candy. 563,579, Sept. 2; Serial No. 604,208, published May 27, 1952. Class 46.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. 563,590, Sept. 2; Serial No. 606,538, published June 3, 1952. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Veterinary preparation. 563,618, Sept. 2; Serial No. 606,543, published June 3, 1952. Class 18.

Mautin, Francois A., New York, N. Y. Medical composition. 563,557, Sept. 2; Serial No. 595,609, published June 17, 1952. Class 18.

May Department Stores Company, The: *See*—
Kaufmann Department Stores, Inc.

McConahay, Nelson J., doing business as The Too Food Supplement Company, Denver, Colo. Mineral-vitamin dietary supplement. 563,648, Sept. 2; Serial No. 618,321, published May 13, 1952. Class 18.

Merrimac Hat Corporation, New York, N. Y. Men's, women's, and children's hats, and hat bodies. 563,714, Sept. 2; Serial No. 567,990. Class 39.

Middlebrooke Lancaster, Inc., Brooklyn, N. Y. Electrically heated caps, facial masks, and electrically heated mittens. 563,558, Sept. 2; Serial No. 596,173, published June 10, 1952. Class 44.

Mid-West Producers' Creameries, Inc., South Bend, Ind. Non-fat dry milk solids (dry skim milk). 563,713, Sept. 2; Serial No. 621,078, published June 17, 1952. Class 46.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Medicinal preparation. 563,644, Sept. 2; Serial No. 618,095, published May 13, 1952. Class 18.

Morse, C. C., & Co., San Francisco, by Ferry-Morse Seed Co., Mountain View, Calif. Grass seed. 192,923, Dec. 16, 1924. Republished Sept. 2. Class 1.

Mosse, Incorporated, New York, N. Y. Textile bath towels. 563,643, Sept. 2; Serial No. 611,651, published June 10, 1952. Class 42.

Mueller, Chris, Jr., Burbank, Calif. Rubber mat coasters. 563,715, Sept. 2; Serial No. 568,391. Class 2.

N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar," Weesp and Amsterdam, Netherlands. Pharmaceutical product. 563,658, Sept. 2; Serial No. 619,582, published June 3, 1952. Class 18.

National Automotive Fibres, Inc., Oakland, Calif. Yarn. 563,675, Sept. 2; Serial No. 621,897, published June 10, 1952. Class 43.

National Steel Corporation, Wilmington, Del., and Pittsburgh, Pa. Ribbed sheet metal roofing and siding sheets. 563,526, Sept. 2; Serial No. 556,593, published June 3, 1952. Class 12.

Neckwear Incorporated, Chicago, Ill. Neckties. 563,588, Sept. 2; Serial No. 605,911, published Sept. 18, 1951. Class 39.

New Era Shirt Company, St. Louis, Mo. Men's outer shirts. 563,546, Sept. 2; Serial No. 586,032, published Apr. 8, 1952. Class 39.

Newton Grocery Co.npany: *See*—
Newton Grocery Company, Inc.

Newton Grocery Company, Inc., doing business under the name Newton Grocery Company, Dothan, Ala. Brooms and mops. 563,602, Sept. 2; Serial No. 614,057, published June 17, 1952. Class 29.

Nicoletti, Dominick J., New Rochelle, N. Y. Preparation of body-building elements. 563,633, Sept. 2; Serial No. 610,224, published June 3, 1952. Class 18.

No-Boil Fluid Chemical Company, Jamestown, N. Y. Washington compound. 563,547, Sept. 2; Serial No. 587,162, published June 10, 1952. Class 52.

Nolder Steel Company, Chicago, Ill. Treatment of sheets or coils of metal, etc. 563,701, Sept. 2; Serial No. 607,231, published June 10, 1952. Class 106.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Fertilizers. 563,717, Sept. 2; Serial No. 578,940. Class 10.

North Whittier Heights Citrus Association, to North Whittier Heights Citrus Association, Puente, Calif. Fresh citrus fruit. 298,024, Renewed Oct. 11, 1952. O. G. Sept. 2. Class 46.

O-Cedar of Canada Limited, Toronto, Ontario, Canada. Wax. 563,521, Sept. 2; Serial No. 542,641, published May 27, 1952. Class 4.

O'Connell Brothers, Inc., Overland and St. Louis, Mo. Antacid adsorbent. 563,626, Sept. 2; Serial No. 607,509, published June 17, 1952. Class 18.

Ohio Rubber Company, The, Willoughby, Ohio. Finished tops of tables, cabinets, bars, etc. 563,562, Sept. 2; Serial No. 598,540, published June 10, 1952. Class 32.

Onyx Oil & Chemical Company, Jersey City, N. J. Chemical composition. 563,689, Sept. 2; Serial No. 625,688, published June 3, 1952. Class 6.

Owen-Morgan, Inc., New York, N. Y. Women's wearing apparel. 563,551, Sept. 2; Serial No. 590,988, published Nov. 14, 1950. Class 39.

Pallas Chemicals Limited, Newcastle-upon-Tyne, England. Bituminous coating material. 563,548, Sept. 2; Serial No. 590,028, published June 10, 1952. Class 16.

Pallas Chemicals Limited, Newcastle-upon-Tyne, England. Chemical preparations. 563,549, Sept. 2; Serial No. 590,029, published June 10, 1952. Class 6.

Pan American Petroleum Corporation: *See*—
Pan-Am Southern Corporation.

Pan-Am Southern Corporation, New Orleans, La., by change of name from Pan American Petroleum Corporation. Lubricating products. 563,537, Sept. 2; Serial No. 577,899, published May 20, 1952. Class 15.

Parco Manufacturing Co., Inc., Syracuse, N. Y. Power-operated vegetable peelers and vegetable cutters. 563,596, Sept. 2; Serial No. 612,133, published May 27, 1952. Class 23.

Paris Decorators Corp., New York, N. Y. Sofas, love seats, chairs, studio couches, etc. 563,733, Sept. 2; Serial No. 603,851. Class 32.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Alkaline detergents. 563,624, Sept. 2; Serial No. 607,450, published June 10, 1952. Class 52.

Permo, Incorporated, Chicago, Ill. Thermosetting resin adhesive. 563,581, Sept. 2; Serial No. 604,593, published June 10, 1952. Class 5.

Personal Pen Company, Boston, Mass. Pen and pencil repair service. 563,694, Sept. 2; Serial No. 590,453, published June 17, 1952. Class 103.

Peters & Russell, Inc., Springfield, Ohio. Exhaust deflectors. 563,651, Sept. 2; Serial No. 618,813, published Apr. 29, 1952. Class 23.

Petroleum Specialties, Inc., New York, N. Y. Medicinal white mineral oils. 563,656, Sept. 2; Serial No. 619,355, published June 3, 1952. Class 18.

Phi Alpha Theta, Allentown, Pa. Organizing of chapters of a national honorary history fraternity, etc. 563,712, Sept. 2; Serial No. 604,384, published June 10, 1952. Class 100.

Phillips-Jones Corporation, New York, N. Y. Men's and boys' dress, sport, and work clothing and parts thereof, etc. 563,555, Sept. 2; Serial No. 593,681, published Feb. 19, 1952. Class 39.

Pinky Products, Inc., New York, N. Y. Liquid nail polish remover. 563,572, Sept. 2; Serial No. 602,333, published June 3, 1952. Class 51.

Pioneer Rubber Company, The, Willard, Ohio. Household or light industrial gloves. 563,679, Sept. 2; Serial No. 622,353, published June 10, 1952. Class 39.

Pitman-Moore Co.: *See*—
Allied Laboratories, Inc.

Pompender, Martha T. M., New York, N. Y. Entertainment service. 559,442, May 27, 1952. Corrected. O. G. Sept. 2. Class 107.

Porter, H. K., Inc., Somerville, Mass. One-hand metal cutting tools. 563,720, Sept. 2; Serial No. 587,396. Class 23.

Powell, Dick, doing business as Powell Enterprises, Hollywood, Calif. Entertainment services. 563,700, Sept. 2; Serial No. 604,387, published June 17, 1952. Class 107.

Powell Enterprises: *See*—
Powell, Dick.

Powell, Wm., Company, The, Cincinnati, Ohio. Angle valves, blowoff valves, check valves, etc. 444,717, Sept. 2; Serial No. 523,533, published June 10, 1952. Class 13.

Ramhoc Ltd., New York, N. Y. Woven textile fabrics. 563,585, Sept. 2; Serial No. 605,560, published June 10, 1952. Class 42.

Read Standard Corporation: *See*—
Standard Stoker Company, Inc., The.

Reece Button Hole Machine Co., The, to The Reece Corporation, Boston, Mass. Sewing machines. 294,197–9, renewed May 24, 1952. O. G. Sept. 2. Class 23.

Reece Corporation, The: *See*—
Reece Button Hole Machine Co., The.

Reon Company, Ambler, Pa. Preparation for the relief of poison ivy, etc. 563,649, Sept. 2; Serial No. 618,403, published May 13, 1952. Class 18.

Revere Knitting Mills, Inc., Malden, Mass. Outer shirts. 563,559, Sept. 2; Serial No. 597,167, published May 6, 1952. Class 39.

Rexall Drug Company: *See*—
United Drug Company.

Ricci, Nina, Inc., New York, N. Y. Perfume. 563,573, Sept. 2; Serial No. 602,422, published June 3, 1952. Class 51.

Richfield Oil Company of California, by Richfield Oil Corporation, Los Angeles, Calif. Petroleum and products of petroleum. 279,954, Feb. 10, 1931. Republished Sept. 2. Class 15.

Richfield Oil Corporation: *See*—
Richfield Oil Company of California.

Rockwell Manufacturing Company, Pittsburgh, Pa. Stick glue, and liquid cement. 563,642, Sept. 2; Serial No. 611,536, published June 10, 1952. Class 5.

Rolladenfabrik A. Griesser A.-G., Aadorf, Switzerland. Venetian blind. 563,593, Sept. 2; Serial No. 611,812, published June 10, 1952. Class 32.

Roll-A-Line, Inc., Tulsa, Okla. Automatically and manually operable copy holders. 563,743, Sept. 2; Serial No. 615,502. Class 23.

Rolscreen Company, Pella, Iowa. Windows and window screens. 563,619, Sept. 2; Serial No. 606,682, published June 3, 1952. Class 12.

Rosedale Knitting Company, Reading, Pa. Ladies' hosiery. 563,611, Sept. 2; Serial No. 616,643, published June 3, 1952. Class 39.

Royal Robes, Inc., New York, N. Y. Robes. 563,566, Sept. 2; Serial No. 600,353, published Mar. 18, 1952. Class 39.

Royal Tops Mfg. Co., Long Island City, N. Y. Spinning tops, and tops of the bandalore type. 563,670, Sept. 2; Serial No. 621,087, published June 17, 1952. Class 22.

Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Cleansing powder. 563,563, Sept. 2; Serial No. 598,604, published June 10, 1952. Class 52.

St. Anthony Flour Mills: *See*—
Colorado Milling & Elevator Co., The.

Samph, Herman, doing business as Fine Maid Sales, Quakertown, Pa. Full fashioned hosiery. 563,736, Sept. 2; Serial No. 609,817. Class 39.

Sanitary Food Mfg. Co.: *See*—
Griggs, Cooper & Co.

Sanitary Food Mnufacturing Co.: *See*—
Griggs, Cooper & Company.

Sapphire Corporation: *See*—
Sapphire Hosiery Corporation.

Sapphire Hosiery Corporation, New York, N. Y., now by change of name Sapphire Corporation. Hosiery. 563,540, Sept. 2; Serial No. 581,567, published Aug. 15, 1950. Class 39.

Sato, J. & K., National City, Calif. Fresh vegetables. 563,678, Sept. 2; Serial No. 622,314, published June 10, 1952. Class 46.

Savage Arms Corporation, Utica, N. Y. Gasoline powered rotary lawn mowers. 563,645, Sept. 2; Serial No. 618,182, published May 20, 1952. Class 23.

Schenley Distillers, Inc., New York, N. Y. Feed for poultry and swine. 563,684, Sept. 2; Serial No. 623,986, published June 3, 1952. Class 46.

Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical product. 563,591, Sept. 2; Serial No. 606,490, published June 17, 1952. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Laxative tablets. 563,630, Sept. 2; Serial No. 607,902, published May 13, 1952. Class 18.

Schieffelin & Co., New York, N. Y. Antacid. 563,631, Sept. 2; Serial No. 608,956, published June 17, 1952. Class 18.

Schiele Products, Mount Prospect, Ill. Automatically opening and closing tripod supports for golf bags. 563,569, Sept. 2; Serial No. 601,851, published June 10, 1952. Class 22.

Schlumberger Well Surveying Corporation, Houston, Tex. Services rendered in connection with oil, gas and water wells. 563,702, Sept. 2; Serial No. 607,903, published June 10, 1952. Class 100.

Scholes, T. F., Inc., Reading, Pa. Railroad track construction engineering and repair. 563,706, Sept. 2; Serial No. 615,086, published June 10, 1952. Class 103.

Sears, Roebuck and Co., Chicago, Ill. Cannister sets (flour, sugar, spice cans), metal cake tray and cover sets, pantry bins, etc. 563,523, Sept. 2; Serial No. 550,083, published June 10, 1952. Class 2.

Sears, Roebuck and Co., Chicago, Ill. Cleaning fluids (upholstery), metal polish, soap compound, etc. 563,528, Sept. 2; Serial No. 558,744, published May 20, 1952. Class 4.

Sears, Roebuck and Co., Chicago, Ill. Metal awnings. 563,622, Sept. 2; Serial No. 607,145, published June 3, 1952. Class 12.

Shields Oil Producers, Russell, Kans. Drilling and maintaining oil and gas wells. 563,697, Sept. 2; Serial No. 602,002, published June 17, 1952. Class 103.

Siris, A. J., Products Corp., New York, N. Y. Wallets. 563,742, Sept. 2; Serial No. 615,253. Class 3.

Sleepwear, Inc., New York, N. Y. Men's pajamas. 563,654, Sept. 2; Serial No. 619,266, published June 3, 1952. Serial No. 39.

Smith, Robert E.: *See*—
Kagran Corporation.

Snavely, J. C., & Sons, Inc.: *See*—
Economy Silo & Mfg. Co., The.

Snia-Viscosa Societá Nazionale Industria Applicazioni Viscosa, Milan, Italy. Artificial silk, spun, thrown, sewing or knitting, twist, yarn, and thread. 294,996, renewed June 14, 1952. O. G. Sept. 2. Class 43.

Societá Anonima Cooperativa Latteria Soresinese, Soresina, Italy. Cheese, butter and milk products. 295,272, renewed June 28, 1952. O. G. Sept. 2. Class 46.

Soderberg & Kenyon, Denver, Colo. Fish hooks. 563,570, Sept. 2; Serial No. 602,113, published June 10, 1952. Class 22.

Soderblom, Jonas, doing business as Wettex Company, New York, N. Y. Wash cloths and dish cloths. 563,612, Sept. 2; Serial No. 616,975, published June 10, 1952. Class 42.

Southern Fruit Distributors, Inc., Orlando, Fla. Potatoes. 563,524, Sept. 2; Serial No. 554,433, published May 13, 1952. Class 46.

Spheric Structures, Inc., Washington, D. C. Prefabricated readily erectable buildings, knockdown buildings, portable buildings, etc. 563,584, Sept. 2; Serial No. 605,376, published June 3, 1952. Class 12.

Sport-Modes of Boston, Boston, Mass. Ladies' and misses' culottes, slacks, jackets, etc. 563,748, Sept. 2; Serial No. 623,686. Class 39.
Spurgeon Hosiery Corporation, Philadelphia, Pa. Women's nylon hosiery. 563,582, Sept. 2; Serial No. 604,815, published June 10, 1952. Class 39.
Squibb, E. R., & Sons, New York, N. Y. Analgesic preparations. 563,545, Sept. 2; Serial No. 584,555, published May 6, 1952. Class 18.
Squibb, E. R., & Sons, New York, N. Y. Antitussive preparation. 563,653, Sept. 2; Serial No. 619,215, published June 3, 1952. Class 18.
Standard Stoker Company, Inc., The, New York, N. Y., now by change of name Read Standard Corporation. Automatic rack loaders and unloaders. 563,635, Sept. 2; Serial No. 610,721, published May 6, 1952. Class 23.
Stange, Edward N., doing business as Ensco Mfg. Co., Chicago, Ill. Plastic gloves. 563,663, Sept. 2; Serial No. 620,629, published June 10, 1952. Class 39.
Stelber Cycle Corp., Brooklyn, N. Y. Children's tricycles, children's bicycles, small diameter wheeled sidewalk bicycles, etc. 563,568, Sept. 2; Serial No. 601,481, published June 10, 1952. Class 22.
Stocker Manufacturing Company, Netcong, N. J. Sealing tapes. 563,601, Sept. 2; Serial No. 613,536, published June 10, 1592. Class 5.
Strohmeyer & Arpe Company, New York, N. Y. Olives. 563,617, Sept. 2; Serial No. 618,062, published June 17, 1952. Class 46.
Sun Rubber Company, The, Barberton, Ohio. Rubber bulbs and rubber soap trays. 563,598, Sept. 2; Serial No. 613,093, published June 10, 1952. Class 2.
Syndicate Store Merchandiser, Inc., New York, N. Y. Trade-journal. 563,744, Sept. 2; Serial No. 616,145. Class 38.
Talon, Inc., Meadville, Pa. Slide fasteners. 563,676, Sept. 2; Serial No. 622,132, published June 17, 1952. Class 13.
Tar-Gon Products, Inc., Chicago, Ill. Chlorophyll chewing gum. 563,664, Sept. 2; Serial No. 620,904, published June 3, 1952. Class 46.
Tattoo, Inc., New York, N. Y. Toilet preparations, perfumery, and cosmetics. 563,639, Sept. 2; Serial No. 611,317, published June 3, 1952. Class 51.
Television Forecast, Inc., Chicago, Ill. Periodical publication. 563,747, Sept. 2; Serial No. 623,380. Class 38.
Texas Fabricating Co., Houston, Tex. Aluminum awnings. 563,660, Sept. 2; Serial No. 619,955, published June 3, 1952. Class 12.
Too Food Supplement Company, The: *See*— McConahay, Nelson J.
Topps Chewing Gum, Incorporated, Brooklyn, N. Y. Chewing gum. 563,527, Sept. 2; Serial No. 558,193, published June 10, 1952. Class 46.
Tremco Manufacturing Company, The, Cleveland, Ohio. Emulsion floor waxes. 563,594, Sept. 2; Serial No. 611,923, published June 10, 1952. Class 4.
Trudeau Candies, Inc., St. Paul, Minn., assignor to Fenn Bros., Inc., Sioux Falls, S. Dak. Candy. 563,603, Sept. 2; Serial No. 614,857, published June 10, 1952. Class 46.
Tubular Service and Engineering Company, Houston, Tex. Rubber protector collars for drill pipe. 563,605, Sept. 2; Serial No. 615,664, published May 27, 1952. Class 35.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. 563,668, Sept. 2; Serial No. 620,942, published June 10, 1952. Class 2.
United Chemical Company, Kansas City, Mo. Liquid wax. 294,514, May 31, 1932. Republished Sept. 2. Class 4.
United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Medicinal preparation. 294,840, renewed June 7, 1952. O. G. Sept. 2. Class 18.
United Packing Co.: *See*— Lynch, Thos. H. United Packing Company.
United Packing Company, to United Packing Co., Fresno, Calif. Fresh grapes, fresh deciduous fruits, fresh citrus fruits, etc. 297,711, renewed Sept. 27, 1952. O. G. Sept. 2. Class 46.
Universal Packing & Gasket Company, Houston, Tex. Piston cups for pumps. 563,597, Sept. 2; Serial No. 612,425, published June 3, 1952. Class 35.
Universal Sports Corporation, New York, N. Y. Baseball bats; baseball bases; baseball masks, etc. 563,592, Sept. 2; Serial No. 611,666, published June 17, 1952. Class 22.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 563,575, Sept. 2; Serial No. 602,585, published June 3, 1952. Class 18.
Vacu-Dry Company, Oakland, Calif. Fruit-nut bread. 563,554, Sept. 2; Serial No. 593,379, published May 20, 1952. Class 46.
Vanderbilt, R. T., Company, Inc., New York, N. Y. Emulsifier for foods. 563,671, Sept. 2, 1952; Serial No. 621,344, published May 20, 1952. Class 46.
Velveray Corporation, New York, N. Y. Decorating and printing woven and knitted fabrics. 563,691, Sept. 2; Serial No. 556,043, published June 17, 1952. Class 106.
Velveray Corporation, Clifton, N. J., Fall River, Mass., and New York, N. Y. Printing, decorating and ornamenting sheet plastic materials. 563,705, Sept. 2; Serial No. 610,878, published June 10, 1952. Class 106.
Vewell, Jim D., Fort Worth, Tex. Booklets. 563,726, Sept. 2; Serial No. 597,797. Class 38.
Waite Carpet Co., Oshkosh, Wis. Rugs and carpets. 563,665–7, Sept. 2; Serial No. 620,905–7, published June 10, 1952. Class 42.
Warren Knitting Mills, Inc., New York, N. Y. Hosiery. 563,599, Sept. 2; Serial No. 613,099, published June 10, 1952. Class 39.
Wellman-Peck & Co., San Francisco, Calif. Canned foods. 563,518, Sept. 2; Serial No. 538,205, published June 3, 1952. Class 46.
West Disinfecting Company, Long Island City, N. Y. Synthetic detergent and organic inhibitor. 563,636, Sept. 2,; Serial No. 610,772, published June 10, 1952. Class 52.
Wettex Company: *See*— Soderblom, Jonas.
White Sewing Machine Corporation, Cleveland, Ohio. Sewing machines, electric sewing machines and parts thereof. 563,634, Sept. 2; Serial No. 610,651, published May 6, 1952. Class 23.
Whiteselle Brick & Lumber Company, Corsicana, Tex. Red building brick. 563,529, Sept. 2; Serial No. 559,411, published June 3, 1952. Class 12.
Willis Hosiery Mills Inc., Concord, N. C. Hosiery. 563,595. Sept. 2; Serial No. 611,926, published June 10, 1952. Class 39.
Willow Shirt Corporation, The, New Haven, Conn. Men's and ladies' shirts. 563,738, Sept. 2; Serial No. 610,482. Class 39.
Winthrop-Stearns Inc., New York, N. Y. Anti-nauseant and anti-emetic preparation. 563,646, Sept. 2; Serial No. 618,220, published May 13, 1952. Class 18.
Winthron-Stearns Inc., New York, N. Y. Bronchodilator and antispasmodic for the treatment of bronchial spasm. 563,650. Sept. 2; Serial No. 618,474, published May 13, 1952. Class 18.
Wood, Alexander, & Son, Peterhead, Scotland. Herrings preserved in brine. 563,647, Sept. 2; Serial No. 618,253, published June 10 1952. Class 46.
Woodman Company, Inc., The, Avondale Estates, Ga. Power driven machine. 563,721, Sept. 2; Serial No. 587,519. Class 23.
Wood's Mincemeat Company, Baltimore, Md. Mincemeat. 563,674, Sept. 2; Serial No. 621,741, published June 10. 1952. Class 46.
Worldsbest Industries, Inc., Cudahy, Wis. Baby safety gates. 563,628, Sept. 2; Serial No. 607,837, published June 3, 1952. Class 12.
Zuider Zee Products, Inc., Charlottesville, Va. Food sauce. 563,734, Sept. 2; Serial No. 607,694. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Seed, Grass. Ferry-Morse Seed Co. 423,005, Aug. 20, 1946. Republished Sept. 2.
Seed, Grass. C. C. Morse & Co. 192,923, Dec. 16, 1924. Republished Sept. 2.

CLASS 2

Bags, Paper. Union Bag & Paper Corporation. 563,668, Sept. 2; Serial No. 620,942, published June 10, 1952.
Boxes, Corrugated fibre board shipping, and solid fibre board shipping boxes. Fibre Board Container Corporation. 563,560, Sept. 2; Serial No. 597,602, published June 10, 1952.
Cannister sets (flour, sugar, spice cans), metal cake tray and cover sets, pantry bins, etc. Sears, Roebuck and Co. 563,523, Sept. 2; Serial No. 550,083, published June 10, 1952.
Cans, Metal. Crown Can Company. 563,534, Sept. 2; Serial No. 574,822, published June 10, 1952.
Cartons and boxes. Krafco Container Corporation. 563,539, Sept. 2; Serial No. 580,487, published June 10, 1952.
Coasters, Rubber mat. Chris Mueller, Jr. 563,715, Sept. 2; Serial No. 568,391.
Receptacles, Dirt collecting. Eureka Williams Corporation. 563,538, Sept. 2; Serial No. 578,578, published June 10, 1952.
Refrigeration packaging products. International Harvester Company. 563,541–2, Sept. 2; Serial Nos. 581,956–7, published June 10, 1952.
Rubber bulbs and rubber soap trays. The Sun Rubber Company. 563,598, Sept. 2; Serial No. 613,093, published June 10, 1952.

Silos. The Economy Silo & Mfg. Co. 296,730, renewed Aug. 16, 1952. O. G. Sept. 2.
Twine holder, Portable plastic. The J. E. Fricke Co. 563,550, Sept. 2; Serial No. 590,780, published June 10, 1952.

CLASS 3

Luggage, Hand. American Luggage Works, Inc. 563,740, Sept. 2; Serial No. 613,580.
Wallets. A. J. Siris Products Corp. 563,742, Sept. 2; Serial No. 615,253.
Wallets, billfolds, handbags, etc. Consolidated Leather Mfg. Co., Inc. 563,746, Sept. 2; Serial No. 618,084.

CLASS 4

Cleaning fluids (upholstery), metal polish, soap compound, etc. Sears, Roebuck and Co. 563,528, Sept. 2; Serial No. 558,744, published May 20, 1952.
Wax. O-Cedar of Canada Limited. 563,521, Sept. 2; Serial No. 542,641, published May 27, 1952.
Wax, Liquid. United Chemical Company. 294,514, May 31, 1932. Republished Sept. 2.
Waxes, Emulsion floor. The Tremco Manufacturing Company. 563,594, Sept. 2; Serial No. 611,923, published June 10, 1952.

CLASS 5

Adhesive, Thermosetting resin. Permo, Incorporated. 563,581, Sept. 2; Serial No. 604,593, published June 10, 1952.
Adhesives. Behr-Manning Corporation. 563,661, Sept. 2; Serial No. 620,390, published June 10, 1952.
Glue, Stick, and liquid cement. Rockwell Manufacturing Company. 563,642, Sept. 2; Serial No. 611,536, published June 10, 1952.
Sealing tapes. Stocker Manufacturing Company. 563,601, Sept. 2; Serial No. 613,536, published June 10, 1952.

CLASS 6

Baking powder and bicarbonate of soda. Joe Lowe Corporation. 296,798, Aug. 23, 1932. Republished Sept. 2.
Chemical composition. Onyx Oil & Chemical Company. 563,689, Sept. 2; Serial No. 625,688, published June 3, 1952.
Chemical preparations. Pallas Chemicals Limited. 563,549, Sept. 2; Serial No. 590,029, published June 10, 1952.

CLASS 7

Twine. American Cordage & Paper Corp. 563,737, Sept. 2; Serial No. 610,305.

CLASS 10

Fertilizers. Norsk Hydro-Elektrisk Kvaelstofaktieselskab. 563,717, Sept. 2; Serial No. 578,940.

CLASS 12

Awnings, Aluminum. Texas Fabricating Co. 563,660, Sept. 2; Serial No. 619,955, published June 3, 1952.
Awnings, Metal. Sears, Roebuck and Co. 563,622, Sept. 2; Serial No. 607,145, published June 3, 1952.
Brick, Red building. Whiteselle Brick & Lumber Company. 563,529, Sept. 2; Serial No. 559,411, published June 3, 1952.
Brick, Refractory. General Refractories Company. 563,640, Sept. 2; Serial No. 611,351, published June 3, 1952.
Caulking compound, glazing compound, bowl setting compound, etc. C. J. Landen. 563,532, Sept. 2; Serial No. 564,883, published June 3, 1952.
Cement, Hydraulic-setting, chrome-base, castable. General Refractories Company. 563,641, Sept. 2; Serial No. 611,352, published June 3, 1952.
Decorative laminated plastic sheets. Continental Can Company Inc. 553,791, Jan. 22, 1952. Amended. O. G. Sept. 2.
Patching and ramming refractories. Eastern Clay Products, Incorporated. 563,580, Sept. 2; Serial No. 604,525, published June 3, 1952.
Prefabricated readily erectable buildings, knockdown buildings, portable buildings, etc. Spheric Structures, Inc. 563,584, Sept. 2; Serial No. 605,376, published June 3, 1952.
Roofing and siding sheets, Ribbed sheet metal. National Steel Corporation. 563,526, Sept. 2; Serial No. 556,593, published June 3, 1952.
Safety gates, Baby. Worldbest Industries, Inc. 563,628, Sept. 2; Serial No. 607,837, published June 3, 1952.
Surfacing material. American Bitumuls Company. 552,651, Jan. 1, 1952. Amended. O. G. Sept. 2.
Tile floor covering, Hard-surface composition. Bird & Son, Inc. 563,576, Sept. 2; Serial No. 602,742, published June 3, 1952.
Windows and window screens. Rolscreen Company. 563,619, Sept. 2; Serial No. 606,682, published June 3, 1952.

CLASS 13

Angle valves, blowoff valves, check valves, etc. The Wm. Powell Company. 444,717, Sept. 2; Serial No. 523,533, published June 10, 1952.
Eyeglass case holder. William G. Ackerman and Company. 563,716, Sept. 2; Serial No. 573,747.
Ferrous metal pipe and ferrous metal pipe fittings; etc. The American Rolling Mill Company. 563,516, Sept. 2; Serial No. 527,742, published Nov. 20, 1951.
Metal tubing. General Motors Corporation. 563,729, Sept. 2; Serial No. 602,447.
Metallic hollow ware. The Everedy Company. 563,727, Sept. 2; Serial No. 599,866.
Slide fasteners. Talon, Inc. 563,676, Sept. 2; Serial No. 622,132, published June 17, 1952.
Valve insides and valve caps for valve stems. The Dill Manufacturing Company. 563,719, Sept. 2; Serial No. 583,681.

CLASS 14

Bearing alloys and white metal alloys. Jackson-Wheeler Metals Service. 193,420, Dec. 30, 1924. Republished Sept. 2.

CLASS 15

Lubricating products. Pan-Am Southern Corporation. 563,537, Sept. 2; Serial No. 577,899, published May 20, 1952.
Petroleum and products of petroleum. Richfield Oil Company of California. 279,954, Feb. 10, 1931. Republished Sept. 2.

CLASS 16

Coating material, Bituminous. Pallas Chemicals Limited. 563,548, Sept. 2; Serial No. 590,028, published June 10, 1952.

CLASS 18

Analgesic preparations. E. R. Squibb & Sons. 563,545, Sept. 2; Serial No. 584,555, published May 6, 1952.
Antacid. Schieffelin & Co. 563,631, Sept. 2; Serial No. 608,956, published June 17, 1952.
Antacid adsorbent. O'Connell Brothers, Inc. 563,626, Sept. 2; Serial No. 607,509, published June 17, 1952.
Antacid preparations. Allied Laboratories, Inc. 563,533, Sept. 2; Serial No. 569,418, published June 3, 1952.
Anticoagulant. Hoffmann-La Roche Inc. 563,637, Sept. 2; Serial No. 611,028, published June 3, 1952.
Antihistaminic spray preparation. Anahist Co. Inc. 563,567, Sept. 2; Serial No. 600,529, published May 13, 1952.
Anti-nauseant and anti-emetic preparation. Winthrop-Stearns Inc. 563,646, Sept. 2; Serial No. 618,220, published May 13, 1952.
Antiseptic tablets, Urinary. Foley & Company. 563,574, Sept. 2; Serial No. 602,444, published June 17, 1952.
Antitussive preparation. E. R. Squibb & Sons. 563,653, Sept. 2; Serial No. 619,215, published June 3, 1952.
Bronchodilator and antispasmodic for the treatment of bronchial spasm. Winthrop-Stearns Inc. 563,650, Sept. 2; Serial No. 618,474, published May 13, 1952.
Cough syrup. W. K. Buckley, Inc. 563,655, Sept. 2; Serial No. 619,331, published June 3, 1952.
Dietary supplement, Mineral-vitamin. N. J. McConahay. 563,648, Sept. 2; Serial No. 618,321, published May 13, 1952.
Laxative tablets. Schenley Laboratories, Inc. 563,630, Sept. 2; Serial No. 607,902, published May 13, 1952.
Low-calorie dietary aid. American Dietalds Company, Inc. 563,657, Sept. 2; Serial No. 619,374, published June 3, 1952.
Medical composition. F. A. Mautin. 563,557, Sept. 2; Serial No. 595,609, published June 17, 1952.
Medicinal compound. F. M. Fischer. 563,583, Sept. 2; Serial No. 604,908, published May 13, 1952.
Medicinal preparation. E. S. Miller Laboratories, Inc. 563,644, Sept. 2; Serial No. 618,095, published May 13, 1952.
Medicinal preparation. United Drug Company. 294,840, renewed June 7, 1952. O. G. Sept. 2.
Medicinal preparation. The Upjohn Company. 563,575, Sept. 2; Serial No. 602,585, published June 3, 1952.
Medicinal white mineral oils. Petroleum Specialties, Inc. 563,656, Sept. 2; Serial No. 619,355, published June 3, 1952.
Oral preparation intended to increase the absorption of fat in the human body. Abbott Laboratories. 563,627, Sept. 2; Serial No. 607,787, published May 13, 1952.
Penicillin product. Bristol Laboratories Inc. 563,620, Sept. 2; Serial No. 606,748, published June 17, 1952.
Pharmaceutical preparation. The S. E. Massengill Company. 563,590, Sept. 2; Serial No. 606,538, published June 3, 1952.
Pharmaceutical preparations. Charles E. Frosst & Co. 563,621, Sept. 2; Serial No. 606,861, published June 3, 1952.
Pharmaceutical product. The Maltine Company. 563,616, Sept. 2; Serial No. 617,922, published May 13, 1952.
Pharmaceutical product. N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar." 563,658, Sept. 2; Serial No. 619,582, published June 3, 1952.
Pharmaceutical product. Schenley Laboratories, Inc. 563,591, Sept. 2; Serial No. 606,490, published June 17, 1952.
Preparation for the relief of poison ivy, etc. Reon Company. 563,649, Sept. 2; Serial No. 618,403, published May 13, 1952.
Preparation for the treatment of athlete's foot. Bruckner Chemists. 563,578, Sept. 2; Serial No. 603,400, published May 13, 1952.

Preparation of body-building elements. D. J. Nicoletti. 563,633, Sept. 2; Serial No. 610,244, published June 3, 1952.
Veterinary preparation. The S. E. Massengill Company. 563,618, Sept. 2; Serial No. 606,543, published June 3, 1952.

CLASS 21

Electric vacuum cleaners, electric waffle irons, etc. Wm. T. Knott Company, Inc. 327,868, Sept. 10, 1935. Amended. O. G. Sept. 2.
Electrical connectors. Berg Manufacturing & Sales Co. 563,732, Sept. 2; Serial No. 602,884.

CLASS 22

Automatically opening and closing tripod supports for golf bags. Schiele Products. 563,569, Sept. 2; Serial No. 601,851, published June 10, 1952.
Baseball bats; baseball bases; baseball masks, etc. Universal Sports Corporation. 563,592, Sept. 2; Serial No. 611,666, published June 17, 1952.
Bowling game apparatus. Allied Manufacturing, Inc 563,552, Sept. 2; Serial No. 591,761, published June 10, 1952.
Dolls. A & H Doll Manufacturing Corp. 563,613, Sept. 2; Serial No. 617,102, published June 17, 1952.
Fish hooks. Soderberg & Kenyon. 563,570, Sept. 2; Serial No. 602,113, published June 10, 1952.
Fishing lures, Artificial. Gentner Tackle Co. 563,607, Sept. 2; Serial No. 616,205, published June 17, 1952.
Tops, Spinning, and tops of the bandalore type. Royal Tops Mfg. Co. 563,670, Sept. 2; Serial No. 621,087, published June 17, 1952.
Toy ceramic piggy banks. Kagran Corporation. 563,556, Sept. 2; Serial No. 595,000, published June 17, 1952.
Tricycles, Children's, children's bicycles, small diameter wheeled sidewalk bicycles, etc. Stelber Cycle Corp. 563,568, Sept. 2; Serial No. 601,481, published June 10, 1952.

CLASS 23

Copy holders, Automatically and manually operable. Roll-A-Line, Inc. 563,743, Sept. 2; Serial No. 615,502.
Crankcase ventilation devices. Kralinator Products Limited. 563,718, Sept. 2; Serial No. 581,599.
Exhaust deflectors. Peters & Russell, Inc. 563,651, Sept. 2; Serial No. 618,813, published Apr. 29, 1952.
Lawn mowers, Gasoline powered rotary. Savage Arms Corporation. 563,645, Sept. 2; Serial No. 618,182, published May 20, 1952.
Power driven machine. The Woodman Company, Inc. 563,721, Sept. 2; Serial No. 587,519.
Rack loaders and unloaders, Automatic. The Standard Stoker Company, Inc. 563,635, Sept. 2; Serial No. 610,721, published May 6, 1952.
Reeds, and dents for reeds for textile looms. Emmons Loom Harness Co. 563,609, Sept. 2; Serial No. 616,535, published May 27, 1952.
Saws, Circular, and hand saws. The Larsan Manufacturing Company. 563,659, Sept. 2; Serial No. 619,629, published May 13, 1952.
Scissors and shears, Domestic or household. The Acme Shear Company. 563,608, Sept. 2; Serial No. 616,217, published May 27, 1952.
Sewing machines. The Reece Button Hole Machine Co. 294,197–9, renewed May 24, 1952. O. G. Sept. 2.
Sewing machines, electric sewing machines and parts thereof. White Sewing Machine Corporation. 563,634, Sept. 2; Serial No. 610,651, published May 6, 1952.
Stationary hydraulic automobile hoist. Globe Hoist Company. 563,741, Sept. 2; Serial No. 614,433.
Tool for holding hollow work, etc. Layne-Held Corporation. 563,722, Sept. 2; Serial No. 589,977.
Tools, One-hand metal cutting. H. K. Porter, Inc. 563,720, Sept. 2; Serial No. 587,396.
Vegetable peelers and vegetable cutters, Power-operated. Parco Manufacturing Co., Inc. 563,596, Sept. 2; Serial No. 612,133, published May 27, 1952.

CLASS 29

Brooms and mops. Newton Grocery Company, Inc. 563,602, Sept. 2; Serial No. 614,057, published June 17, 1952.
Brushes, Hair and clothes. Greatrex Ltd. 563,561, Sept. 2; Serial No. 598,362, published June 10, 1952.

Class 32

Cabinets, Prefabricated storage. Fabricon. 563,530, Sept. 2; Serial No. 561,980, published Mar. 14, 1950.
Mattresses and box springs. International Furniture Company. 563,673, Sept. 2; Serial No. 621,558, published June 10, 1952.
Shelving units, Steel, vertical parts, bins, and service counters. Aurora Equipment Company. 563,553, Sept. 2; Serial No. 591,906, published June 10, 1952.
Sofas, love seats, chairs, studio couches, etc. Paris Decorators Corp. 563,733, Sept. 2; Serial No. 603,851.
Tops of tables, cabinets, bars, etc., Finished. The Ohio Rubber Company. 563,562, Sept. 2; Serial No. 598,540, published June 10, 1952.
Venetian blind. Rolladenfabrik A. Griesser A.-G. 563,593, Sept. 2; Serial No. 611,812, published June 10, 1952.

CLASS 35

Hose, Garden, and rubber vehicle tires. Federated Department Stores, Inc. 563,685, Sept. 2; Serial No. 624,404, published June 3, 1952.
Packing for pipe joints, Twisted jute. American Manufacturing Company. 563,614, Sept. 2; Serial No. 617,479, published June 3, 1952.
Piston cups for pumps. Universal Packing & Gasket Company. 563,597, Sept. 2; Serial No. 612,425, published June 3, 1952.
Protector collars for drill pipe, Rubber. Tubular Service and Engineering Company. 563,605, Sept. 2; Serial No. 615,664, published May 27, 1952.
Tires. The Goodyear Tire & Rubber Company. 563,681, Sept. 2; Serial No. 623,460, published May 27, 1952.
Tires. The Goodyear Tire & Rubber Company. 563,683, Sept. 2; Serial No. 623,761, published May 27, 1952.

CLASS 38

Booklets. J. D. Vowell. 563,726, Sept. 2; Serial No. 597,797.
Publication, Periodical. Television Forecast, Inc. 563,747, Sept. 2; Serial No. 623,380.
Trade-journal. Syndicate Store Merchandiser, Inc. 563,744, Sept. 2; Serial No. 616,145.

CLASS 39

Aprons, overall coats, overall pants, etc. The Lehon Company. 444,716, Sept. 2; Serial No. 520,743, published June 10, 1952.
Brassières. Imperial Brassiere Corp. 563,745, Sept. 2; Serial No. 616,710.
Clothing and parts thereof, etc., Men's and boys' dress, sport, and work. Phillips-Jones Corporation. 563, 55, Sept. 2; Serial No. 593,681, published Feb. 19, 1952.
Culottes, slacks, jackets, Ladies' and misses'. Sport-Modes of Boston. 563,748, Sept. 2; Serial No. 623,686.
Girdles, panties, and brassières. The H. W. Gossard Co. 563,615, Sept. 2; Serial No. 617,755, published June 10, 1952.
Gloves, Household or light industrial. The Pioneer Rubber Company. 563,679, Sept. 2; Serial No. 622,353, published June 10, 1952.
Gloves, Plastic. E. N. Stange. 563,663, Sept. 2; Serial No. 620,629, published June 10, 1952.
Hats and cloches, Ladies'. Leslie-James. 563,589, Sept. 2; Serial No. 605,961, published Apr. 15, 1952.
Hats and hat bodies, Men's, women's, and children's. Merrimac Hat Corporation. 563,714, Sept. 2; Serial No. 567,990.
Hats, Men's fur felt. MacLachlan Hats, Incorporated. 563,730–1, Sept. 2; Serial Nos. 602,849–50.
Hosiery. Sapphire Hosiery Corporation. 563,540, Sept. 2; Serial No. 581,567, published Aug. 15, 1950.
Hosiery. Warren Knitting Mills, Inc. 563,599, Sept. 2; Serial No. 613,099, published June 10, 1952.
Hosiery. Willis Hosiery Mills Inc. 563,595, Sept. 2; Serial No. 611,926, published June 10, 1952.
Hosiery, Full fashioned. H. Samph. 563,736, Sept. 2; Serial No. 609,817.
Hosiery, Ladies'. Rosedale Knitting Company. 563,611, Sept. 2; Serial No. 616,643, published June 3, 1952.
Hosiery. Ladies' full-fashioned and seamless. L. B. Hosiery Co., Inc. 563,735, Sept. 2; Serial No. 608,936.
Hosiery, Women's. Holeproof Hosiery Company. 563,606, Sept. 2; Serial No. 616,100, published June 3, 1952.
Hosiery, Women's nylon. Spurgeon Hosiery Corporation. 563,582, Sept. 2; Serial No. 604,815, published June 10, 1952.
Neckties. Neckwear Incorporated. 563,588, Sept. 2; Serial No. 605,911, published Sept. 18, 1951.
Outerwear, Knitted and woven. Fidelity Machine Company, Inc. 563,710, Sept. 2; Serial No. 616,818, published June 10, 1952.
Pajamas, Men's. Sleepwear, Inc. 563,654, Sept. 2; Serial No. 619,266, published June 3, 1952.
Panties, Baby, baby bloomers, creepers. Alamac Knitting Mills, Inc. 563,564, Sept. 2; Serial No. 599,738, published June 3, 1952.
Robes. Royal Robes, Inc. 563,566, Sept. 2; Serial No. 600,353, published Mar. 18, 1952.
Shirts, Men's. S. Dennis, Inc. 563,724, Sept. 2; Serial No. 590,495.
Shirts, Men's, and boys' sport and dress and ladies' sport shirts. Paul Krupp, Inc. 563,739, Sept. 2; Serial No. 613,465.
Shirts, Men's and ladies'. The Willow Shirt Corporation. 563,738, Sept. 2; Serial No. 610,482.
Shirts, Men's outer. New Era Shirt Company. 563,546, Sept. 2; Serial No. 586,032, published Apr. 8, 1952.
Shirts, Outer. Revere Knitting Mills, Inc. 563,559, Sept. 2; Serial No. 597,167, published May 6, 1952.
Stockings, Ladies'. Leona Lingerie Inc. 563,587, Sept. 2; Serial No. 605,749, published June 3, 1952.
Suits, Men's and boys'. Katz, Jacobson & Paris, Inc. 563,728, Sept. 2; Serial No. 602,320.
Suits, overcoats, and top coats, Young men's and students' three and four piece. Harris Clothing Company. 296,475, renewed Aug. 9, 1952. O. G. Sept. 2.
Wearing apparel, Women's. Owen-Morgan, Inc. 563,551, Sept. 2; Serial No. 590,988, published Nov. 14, 1950.

CLASS 42

Fabric, Knitted pile. Argonaut Mills. 563,669, Sept. 2; Serial No. 620,992, published June 10, 1952.
Fabrics, Corduroy. Jaed & Co., Inc. 563,565, Sept. 2; Serial No. 600,286, published June 10, 1952.
Fabrics, Cotton awning, and cloths. The Falls Company. 394,737, Apr. 28, 1942. Amended. O. G. Sept. 2.
Fabrics in the piece, Textile, and velvet fabrics and ribbons. Co.combet Francois & Cie, S. A. R. L. 444,718, Sept. 2; Serial No. 526,218, published June 3, 1952.
Fabrics, Textile. Burlington Mills Corporation. 563,625, Sept. 2; Serial No. 607,484, published June 10, 1952.
Fabrics, Textile. Deering, Milliken & Co., Inc. 563,686, Sept. 2; Serial No. 624,472, published June 10, 1952.
Fabrics, Textile. Deering, Milliken & Co., Inc. 563,687, Sept. 2; Serial No. 624,475, published June 10, 1952.
Fabrics, Textile. Deering, Milliken & Co., Inc. 563,688, Sept. 2; Serial No. 624,477, published June 10, 1952.
Fabrics, Textile. D. B. Fuller & Co., Inc. 563,604, Sept. 2; Serial No. 615,112, published June 10, 1952.
Fabrics, Textile. Gehring Textiles, Inc. 563,652, Sept. 2; Serial No. 618,849, published June 10, 1952.
Fabrics, Upholstery. Dunbar Furniture Manufacturing Company. 563,525, Sept. 2; Serial No. 556,562, published June 10, 1952.
Fabrics, Woven textile. Ramhoc Ltd. 563,585, Sept. 2; Serial No. 605,560, published June 10, 1952.
Rugs and carpets. Waite Carpet Co. 563,665–7, Sept. 2; Serial No. 620,905–7, published June 10, 1952.
Table cloths and napkins, towels, etc. Hand Block Textiles, Inc. 563,571, Sept. 2; Serial No. 602,121, published June 3, 1952.
Towels, Textile bath. Mosse, Incorporated. 563,643, Sept. 2; Serial No. 611,651, published June 10, 1952.
Wash cloths and dish cloths. J. Soderblom. 563,612, Sept. 2; Serial No. 616,975, published 10, 1952.

CLASS 43

Artificial silk, spun, thrown, sewing or knitting, twist, yarn, and thread. Snia-Viscosa Società Nazionale Industria Applicazioni Viscosa. 294,996, renewed June 14, 1952. O. G. Sept. 2.
Yarn. National Automotive Fibres, Inc. 563,675, Sept. 2; Serial No. 621,897, published June 10, 1952.

CLASS 44

Electrically heated caps, facial masks and electrically heated mittens. Middlebrooke Lancaster, Inc. 563,558, Sept. 2; Serial No. 596,173, published June 10, 1952.
Hair waving supplies, Home. E. J. Kepler. 563,544, Sept. 2; Serial No. 583,539, published June 10, 1952.
Sanitary belts, sanitary aprons, sanitary skirts, etc. Kaufmann Department Stores, Inc. 292,070, Mar. 1, 1932. Republished Sept. 2.

CLASS 46

Baking powder and bicarbonate of soda. Joe Lowe Corporation. 296,798, Aug. 23, 1932. Republished Sept. 2.
Bread, Fruit-nut. Vacu-Dry Company. 563,554, Sept. 2; Serial No. 593,379, published May 20, 1952.
Candies. Helen Harrison Candies Company. 563,623, Sept. 2; Serial No. 607,219, published May 20, 1952.
Candy. Barricini, Inc. 563,680, Sept. 2; Serial No. 622,767, published June 17, 1952.
Candy. Brecht Candy Company. 563,520, Sept. 2; Serial No. 541,399, published June 10, 1952.
Candy. The Mason Candy Company. 563,579, Sept. 2; Serial No. 604,208, published May 27, 1952.
Candy. Trudeau Candies, Inc. 563,603, Sept. 2; Serial No. 614,857, published June 10, 1952.
Canned foods. Wellman-Peck & Co. 563,518, Sept. 2; Serial No. 538,205, published June 3, 1952.
Cheese, butter and milk products. Società Anonima Cooperativa Latteria Soresinese. 295,272, renewed June 28, 1952. O. G. Sept. 2.
Chewing gum. Topps Chewing Gum, Incorporated. 563,527, Sept. 2; Serial No. 558,193, published June 10, 1952.
Chewing gum, Chlorophyll. Tar-Gon Products, Inc. 563,664, Sept. 2; Serial No. 620,904, published June 3, 1952.
Coffee and soda crackers. Griggs, Cooper & Company. 321,461, Feb. 5, 1935. Republished Sept. 2.
Coffee, rice and dried beans. M.J.B. Co. 563,677, Sept. 2; Serial No. 622,303, published June 10, 1952.
Emulsifier for foods. R. T. Vanderbilt Company, Inc. 563,671, Sept. 2; Serial No. 621,344, published May 20, 1952.
Feed for poultry and swine. Schenley Distillers, Inc. 563,684, Sept. 2; Serial No. 623,986, published June 3, 1952.
Feed, Poultry. Allied Mills, Inc. 563,682, Sept. 2; Serial No. 623,529, published May 20, 1952.
Flour. International Milling Company. 563,638, Sept. 2; Serial No. 611,095, published June 3, 1952.
Flour, Wheat. The Colorado Milling & Elevator Co. 563,531, Sept. 2; Serial No. 564,436, published Apr. 8, 1952.
Flour, Wheat. Cosby-Hodges Milling Co. Inc. 297,557, renewed Sept. 20, 1952. O. G. Sept. 2.

Food flavors; also canned asparagus, etc. Joseph Di Santo. 297,622, renewed Sept. 20, 1952. O. G. Sept. 2.
Food sauce. Zuider Zee Products, Inc. 563,734, Sept. 2; Serial No. 607,694.
Fruit and berry preserves. Percy Barker. 563,522, Sept. 2; Serial No. 549,871, published Apr. 8, 1952.
Fruit, Fresh citrus. North Whittier Heights Citrus Association. 298,024, renewed Oct. 11, 1952. O. G. Sept. 2.
Fruits, Fresh citrus, and frozen seafood products. Gale Packing Company. 563,610, Sept. 2; Serial No. 616,557, published June 17, 1952.
Gelatine, cocoa, apple butter, etc. Griggs, Cooper & Co. 307,104, Oct. 17, 1933. Republished Sept. 2.
Grapes, Fresh. T. H. Lynch. 86,418, re-renewed May 7, 1952. O. G. Sept. 2.
Grapes, Fresh, fresh deciduous fruits, fresh citrus fruits, etc. United Packing Company. 297,711, renewed Sept. 27, 1952. O. G. Sept. 2.
Hams, bacon, and luncheon meat. Great Falls Meat Company. 563,723, Sept. 2; Serial No. 590,154.
Herrings preserved in brine. Alexander Wood & Son. 563,647, Sept. 2; Serial No. 618,253, published June 10, 1952.
Honey. Flying B Honey Co. 563,672, Sept. 2; Serial No. 621,552, published June 10, 1952.
Mincemeat. Wood's Mincemeat Company. 563,674, Sept. 2; Serial No. 621,741, published June 10, 1952.
Non-fat dry milk solids (dry skim milk) Mid-West Producers' Creameries, Inc. 563,713, Sept. 2; Serial No. 621,078, published June 17, 1952.
Olives. Strohmeyer & Arpe Company. 563,617, Sept. 2; Serial No. 618,062, published June 17, 1952.
Potato chips, Candy coated colored. D. C. Brendel. 563,662, Sept. 2; Serial No. 620,393, published May 20, 1952.
Potatoes. Southern Fruit Distributors, Inc. 563,524, Sept. 2; Serial No. 554,433, published May 13, 1952.
Sauer kraut and salt mackerel. A. C. Kissling. 563,536, Sept. 2; Serial No. 577,301, published June 17, 1952.
Shortening. Goren Packing Co., Inc. 563,586, Sept. 2; Serial No. 605,655, published June 17, 1952.
Tomatoes, apples, and peaches, Fresh and canned. H. W. Anderson. 224,972, Mar. 8, 1927. Amended. O. G. Sept. 2.
Vegetables, Fresh. Belluomini & Klein. 295,989, renewed July 19, 1952. O. G. Sept. 2.
Vegetables, Fresh. F. V. Birbeck. 298,257, renewed Oct. 18, 1952. O. G. Sept. 2.
Vegetables, Fresh. W. B. Grainger Packing Company. 297,637, renewed Sept. 20, 1952. O. G. Sept. 2.
Vegetables, Fresh. J. & K. Sato. 563,678, Sept. 2; Serial No. 622,314; published June 10, 1952.
Whole wheat cooked breakfast food. Crookston Milling Co. 563,519, Sept. 2; Serial No. 540,390, published Jan. 22, 1952.

CLASS 49

Whiskey. James B. Beam Distilling Co. 563,725, Sept. 2; Serial No. 596,149.
Whisky. Macdonald & Muir. 296,461, Aug. 9, 1932. Republished Sept. 2.

CLASS 51

Cleansing powder for dentures. Fort Orange Chemical Co., Inc. 358,890, July 26, 1938. Republished Sept. 2.
Denture powder, Adhesive. Fort Orange Chemical Co., Inc. 345,096, Apr. 13, 1937. Republished Sept. 2.
Lipstick, rouge, face powder, body powder, etc. Elizabeth Arden Sales Corporation. 563,632, Sept. 2; Serial No. 609,470, published June 3, 1952.
Lotion, Face. Associated Brands, Inc. 563,535, Sept. 2; Serial No. 574,947, published June 3, 1952.
Nail polish remover, Liquid. Pinky Products, Inc. 563,572, Sept. 2; Serial No. 602,333, published June 3, 1952.
Perfume. Nina Ricci, Inc. 563,573, Sept. 2; Serial No. 602,422, published June 3, 1952.
Toilet preparations, perfumery, and cosmetics. Tattoo, Inc. 563,639, Sept. 2; Serial No. 611,317, published June 3, 1952.

CLASS 52

Cleaner for floor scrubbing solutions. The Davies-Young Soap Company. 563,577, Sept. 2; Serial No. 603,355, published June 10, 1952.
Cleansing powder. Safeway Stores, Incorporated. 563,563, Sept. 2; Serial No. 598,604, published June 10, 1952.
Detergent, Synthetic, and organic inhibitor. West Disinfecting Company. 563,636, Sept. 2; Serial No. 610,772, published June 10, 1952.
Detergent tablets. Automatic Controls Corporation. 563,600, Sept. 2; Serial No. 613,113, published June 10, 1952.
Detergents. Bonewitz Chemicals, Inc. 563,543, Sept. 2; Serial No. 582,672, published May 27, 1952.
Detergents, Alkaline. The Pennsylvania Salt Manufacturing Company. 563,624, Sept. 2; Serial No. 607,450, published June 10, 1952.
Shampoos and perfumed soap. Culpeper House Limited. 563,629, Sept. 2; Serial No. 607,894, published June 10, 1952.

Washing compound. No-Boil Fluid Chemical Company. 563,547, Sept. 2; Serial No. 587,162, published June 10, 1952.
Washing powder. Los Angeles Soap Company. 296,079, renewed July 19, 1952. O. G. Sept. 2.
Washing powders and liquid soap. The Anderson Chemical Company. 563,517, Sept. 2; Serial No. 529,531, published May 27, 1952.

CLASS 100

Advancement of medical science and the promotion of good fellowship among the members of its chapters. Alpha Kappa Kappa Fraternity. 563,711, Sept. 2; Serial No. 590,570, published June 17, 1952.
Chemical research. Chemectron Corporation. 563,696, Sept. 2; Serial No. 601,022, published June 17, 1952.
Organizing of chapters of a national honorary history fraternity, etc. Phi Alpha Theta. 563,712, Sept. 2; Serial No. 604, 384, published June 10, 1952.
Services rendered in connection with oil, gas and water wells. Schlumberger Well Surveying Corporation. 563,702, Sept. 2; Serial No. 607,903, published June 10, 1952.
Serving food and beverages in restaurants. The Flaming Pit, Inc. 563,698, Sept. 2; Serial No. 603,359, published June 10, 1952.

CLASS 101

Preparation of advertising and sales promotion material. F. E. Gymer. 563,695, Sept. 2; Serial No. 599,870, published June 10, 1952.

CLASS 102

Banking and trust services. Industrial Trust Company. 563,692, Sept. 2; Serial No. 559,925, published June 10, 1952.

CLASS 103

Drilling and maintaining oil and gas. Shields Oil Producers. 563,697, Sept. 2; Serial No. 602,002, published June 17, 1952.
Installation, repairing and remodeling of movable interior walls or partitions. The E. F. Hauserman Company. 563,699, Sept. 2; Serial No. 603,998, published June 10, 1952.
Pen and pencil repair service. Personal Pen Company. 563,694, Sept. 2; Serial No. 590,453, published June 17, 1952.
Railroad track construction engineering and repair. T. F. Scholes, Inc. 563,706, Sept. 2; Serial No. 615,086, June 10, 1952.
Repair of metal castings. Casting Repair Service. 563,703, Sept. 2; Serial No. 608,917, published June 17, 1952.
Repairing cracked castings. G. Javor. 563,690, Sept. 2; Serial No. 527,389, published Sept. 11, 1951.

CLASS 106

Decorating and printing woven and knitted fabrics. Velveray Corporation. 563,691, Sept. 2; Serial No. 556,043, published June 17, 1952.
Printing, decorating, and ornamenting sheet plastic materials. Velveray Corporation. 563,705, Sept. 2; Serial No. 610,878, published June 10, 1952.
Services rendered manufacturers of all kinds of fabrics. Bradford Dyeing Association (U. S. A.). 563,708, Sept. 2; Serial No. 619,071, published June 17, 1952.
Treatment of sheets or coils of metal, etc. Nolder Steel Company. 563,701, Sept. 2; Serial No. 607,231, published June 10, 1952.

CLASS 107

Entertainment service. M. T. M. Pompender. 559,442, May 27, 1952. Corrected. O. G. Sept. 2.
Entertainment services. D. Powell. 563,700, Sept. 2; Serial No. 604,387, published June 17, 1952.
Furnishing of motion picture films on a lease basis. Bob Jones University. 563,707, Sept. 2; Serial No. 618,834, published June 10, 1952.
Information and instructive service relating to traffic laws and traffic problems. J. Kolodny. 563,709, Sept. 2; Serial No. 620,607, published June 10, 1952.
Leasing of developed motion picture films. Ideal Pictures Corporation. 563,693, Sept. 2; Serial No. 583,132, published June 10, 1952.
Promoting safety among children. R. H. Mansfield. 563,704, Sept. 2; Serial No. 610,373, published June 17, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bihary, William A., Miami, Fla., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Apparatus for preparing masking aprons. Re. 23,542, Sept. 2.
Duncan, George R., Washington, Mo. Milking system and apparatus therefor. Re. 23,543, Sept. 2.
Duncan, George R., Washington, Mo. Milking domestic farm animals and for temporarily storing milk and cooling it. Re. 23,544, Sept. 2.
Minnesota Mining & Manufacturing Company, assignee: *See*—
Bihary, William A.

LIST OF PLANT PATENTEES

Browneil, Josephine D., Little Compton, R. I. Rose plant. 1,124, Sept. 2.
Jackson & Perkins Company, assignee: *See*—
Read, Francis G.
Read, Francis G., Deopham, Wymondham, Norfolk, England, assignor to Jackson & Perkins Company, Newark, N. Y. Shasta daisy plant. 1,125, Sept. 2.

LIST OF DESIGN PATENTEES

Adamchels, Stanley, assignee: *See*—
Jackson, Claude.
American Desk Manufacturing Company, assignee: *See*—
Brashear, Arthur P., Jr.
American Safety Razor Corporation, assignee: *See*—
Treiss, Herman G., Jr.
Auer, Betty, Chicago, Ill. Caster cup or similar article. 167,602, Sept. 2.
Auer, Betty, Chicago, Ill. Caster cup or similar article. 167,603, Sept. 2.
Baldwin, Maurice F., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Automobile steering wheel. 167,604, Sept. 2.
Bang, Ray, Brainerd, Minn. Food basket. 167,605, Sept. 2.
Barofsky, Jack, Los Angeles, Calif. Casing for a piano or similar article. 167,606, Sept. 2.
Becker, Otto, Sarrebruck, Territory of Saar. Tubular lounge chair frame. 167,607, Sept. 2.
Becker, Otto, Sarrebruck, Territory of Saar. Tubular metal arm chair. 167,608, Sept. 2.
Berriman, Job, Sr., Jacksonville, Oreg. Combined ash tray and cigarette holder. 167,609, Sept. 2.
Bloch, Jack, assignor to Foster Grant Co., Inc., Leominster, Mass. Comb or the like. 167,610, Sept. 2.
Brashear, Arthur P., Jr., assignor to American Desk Manufacturing Company, Temple, Tex. Desk. 167,611, Sept. 2.
Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Radio cabinet. 167,612, Sept. 2.
Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Portable radio cabinet. 167,613, Sept. 2.
Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Radio cabinet. 167,614, Sept. 2.
Budlong, Robert D., Skokie, Ill., assignor to Zenith Radio Corporation. Radio receiver cabinet. 167,615, Sept. 2.
Chrysler Corporation, assignee: *See*—
Baldwin, Maurice F.
Pilkey, Harold W.
Clare, George, Maplewood, N. J. Icicle highball stirrer and cocktail pick. 167,616, Sept. 2.
Cohen, Charles J., Bronx, N. Y. Portable clothesline and reel unit. 167,617, Sept. 2.
Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.
Coran, Daniel W., Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Control knob. 167,618, Sept. 2.
Coran, Daniel W., Belmont, assignor to Raytheon Manufacturing Company, Newton, Mass. Control knob. 167,619, Sept. 2.
Cullison, Pauline M., San Francisco, Calif. Reservoir sponge. 167,620, Sept. 2.
Dippmann, Kurt W., assignor to Francis-Louise Full Fashion Mills, Inc., Valdese, N. C. Lady's stocking. 167,621, Sept. 2.
Ekco Products Company, assignee: *See*—
Wagner, Franz.
Erickson, Albert D., assignor to C. E. Erickson Company, Inc., Des Moines, Iowa. Bottle case. 167,622, Sept. 2.
Erickson, C. E., Company, Inc., assignee: *See*—
Erickson, Albert D.
Eue, Norman C., Shakopee, Minn. Infant's spoon. 167,623, Sept. 2.
Feeks, John F., Los Angeles, Calif. Sandal. 167,624, Sept. 2.
Fischel, Arnold E., Brooklyn, N. Y. Powder box or the like. 167,625, Sept. 2.
Foster Grant Co., Inc., assignee: *See*—
Bloch, Jack.
Francis-Louise Full Fashion Mills, Inc., assignee: *See*—
Dippmann, Kurt W.
Garretto, Paolo, Paris, France. Combined bottle and holder. 167,626, Sept. 2.
General Pacific Corporation, The, assignee: *See*—
Huthsing, Charles K.
Graceform-Camlin Corset Co., Inc., assignee: *See*—
Imershein, Mathias.
Hartman, Theodore A., Monroe, Wis. Card display stand. 167,627, Sept. 2.
Herbert, Sidney J., Hayes End, assignor to Stenor Limited, Richmond, England. Frame of a vulcanizing machine. 167,628, Sept. 2.
Hollander, Felix N., Coeur d'Alene, Idaho. Combined lamp and stand. 167,629, Sept. 2.
Huthsing, Charles K., assignor to The General Pacific Corporation, Los Angeles, Calif. Fire extinguisher. 167,630, Sept. 2.
Hvale, James L.: *See*—
Newman, Charles H., and Hvale.
Imershein, Mathias, assignor to Graceform-Camlin Corset Co., Inc., New York, N. Y. Brassière. 167,631, Sept. 2.
Jackson, Claude, Cincinnati, Ohio, assignor to S. Adamchels, Springfield, Mass. Combined child's bed, clothes press, and chest. 167,632, Sept. 2.
Jaksch, Mathias F., Jersey City, N. J. Salt dispenser or similar article. 167,633, Sept. 2.
Judson, Nathaniel, New York, assignor to Mojud Hosiery Co., Inc., Long Island City, N. Y. Lady's stocking. 167,634, Sept. 2.
Kather, Alfred C., San Francisco, Calif. Combined cigarette stand and holder. 167,635, Sept. 2.
Knutzky, Joe, Fort Dodge, Iowa. Artificial fishing bait. 167,636, Sept. 2.
Knight, Harold K., assignor to Knox Glass Associates, Inc., Knox, Pa. Bottle. 167,637, Sept. 2.
Knox Glass Associates, Inc., assignee: *See*—
Knight, Harold K.
Lee, Robert E., North Branch, Minn. Wrecking bar. 167,638, Sept. 2.
Livingston, Cyril W., New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Stocking. 167,639, Sept. 2.
Livingston, Cyril W., New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Stocking. 167,640, Sept. 2.
Livingston, Cyril W., New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Stocking. 167,641, Sept. 2.
Marx, Louis, New York, N. Y. Toy gun. 167,642, Sept. 2.
Mohn Brothers Company, Incorporated, assignee: *See*—
Mohn, John D.
Mohn, John D., Robesonia, assignor to Mohn Brothers Company, Incorporated, Reading, Pa. Felt hat body or similar article. 167,643, Sept. 2.
Mojud Hosiery Co., Inc., assignee: *See*—
Judson, Nathaniel.

Mustee, Bernard E., Cleveland, Ohio. Laundry tub cabinet. 167,644, Sept. 2.
Newman, Charles H., Northfield, and J. L. Hvale, assignors to Teamakers, Inc., Chicago, Ill. Teapot or similar article. 167,645, Sept. 2.
New Monarch Machine & Stamping Company, assignee: *See*—
Scanland, Joseph E.
O'Connor, Donald J., East Hartford, Conn. Smoker's accessory. 167,646, Sept. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 167,647, Sept. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 167,648, Sept. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 167,649, Sept. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 167,650, Sept. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 167,651, Sept. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 167,652, Sept. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 167,653, Sept. 2.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 167,654, Sept. 2.
Pilkey, Harold W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Ornament for an automobile hood. 167,655, Sept. 2.
Raytheon Manufacturing Company, assignee: *See*—
Coran, Daniel W.
Roeder, Delmar M., Washington, D. C. Watch holding rack. 167,656, Sept. 2.
Rohrbach, John J., Rochester, assignor to Shuron Optical Company, Inc., Geneva, N. Y. Bridge for ophthalmic mountings. 167,657, Sept. 2.
Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Fly swatter or similar article. 167,658, Sept. 2.
Sanson Hosiery Mills, Inc., assignee: *See*—
Livingston, Cyril W.
Scanland, Joseph E., assignor to New Monarch Machine & Stamping Company, Des Moines, Iowa. Child's vehicle. 167,659, Sept. 2.
Schrager, Milton M., Far Rockaway, N. Y. Christmas ornament. 167,660, Sept. 2.
Shuron Optical Company, Inc., assignee: *See*—
Rohrbach, John J.
Stenor Limited, assignee: *See*—
Herbert, Sidney J.
Teamakers, Inc., assignee: *See*—
Newman, Charles H., and Hvale.
Tenderich, Gertrude S., assignee: *See*—
Voss, Joseph A.
Treiss, Herman G., Jr., assignor to American Safety Razor Corporation, Brooklyn, N. Y. Cigarette lighter. 167,661, Sept. 2.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Ulrich Foundation, Inc., assignee: *See*—
Ulrich, Raymond M.
Ulrich, Raymond M., Roanoke, Ill., assignor to Ulrich Foundation, Inc. Separable coupling for hydraulic lines. 167,662, Sept. 2.
Voss, Joseph A., assignor to G. S. Tenderich, Denver, Colo. Hair dye applicator. 167,663, Sept. 2.
Wagner, Franz, assignor to Ekco Products Company, Chicago, Ill. Spoon or similar article. 167,664, Sept. 2.
Wiseman, Robert T., Canton, Ohio. Lady's sandal or similar article. 167,665, Sept. 2.
Zenith Radio Corporation, assignee: *See*—
Budlong, Robert D.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott, Henry G.: *See*—
Breedlove, Harry B., and Abbott.
Ackemann, Harold E., Elgin, Ill., assignor to Hotpoint Inc. Illuminated backsplasher for electric ranges. 2,609,476, Sept. 2.
Ackroyd, Norvik: *See*—
Taylor, Arthur W. C., and Ackroyd.
Adams, William B., assignor of one-third to G. Hallmark and one-third to Oliver K. K. Nelson, Turlock, Calif. Gate latch. 2,609,223, Sept. 2.
Adolite Mfg., Inc., assignee: *See*—
O'Gorman, William F.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Daul, George C., and Reid.
Wolff, Ivan A., Davis, Cluskey, and Gundrum.
Aiken, John K.: *See*—
Jones, Harry, and Aiken.
Air Reduction Company, Inc., assignee: *See*—
Balcar, Frederick R.
Air-Way Electric Appliance Corporation, assignee: *See*—
Benjamin, Cordelia P.
Aktiebolaget Bofors, assignee: *See*—
Bengtsson, Erik B.
Aktiebolaget Elektrolux, assignee: *See*—
Grubb, Gunnar A., and Backteman.
Aktiebolaget Gustavsbergs Fabriker, assignee: *See*—
Rydberg, John A.
Albinseon, Harold H., assignor to General Motors Corporation, Detroit, Mich. Cooling system for internal-combustion engines. 2,608,961, Sept. 2.
Alexander, Emmett L., assignor to The George E. Failing Supply Company, Enid, Okla. Derrick. 2,609,180, Sept. 2.
Alexander, Lloyd G.: *See*—
Hass, Henry B., and Alexander.
Alexander, Nelson E.: *See*—
Morgan, Jack R., Alexander, and Comley.
Alink, Roelof J. H., C. J. Dippel, and H. J. Houtman, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Discontinuously physically developing latent photographic images. 2,609,295, Sept. 2.
Allbright, James K.: *See*—
Morse, George E., and Allbright.
Allied Electric Products, Inc., assignee: *See*—
Weisberg, Sidney M.
Allied Mills, Inc., assignee: *See*—
Singer, Philip A., and Deobald.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Kenney, Clarence E., and Wilson.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Dreyfus, Ludwig.
Alt, Alvin F.: *See*—
Binns, Jack N., Dugle, and Alt.
American Biltrite Rubber Co. Inc., assignee: *See*—
Greenbaum, Arthur.
American Car and Foundry Company, assignee: *See*—
Folmsbee, Clyde H., and Martis.
Montgomery, William E.
American Cyanamid Company, assignee: *See*—
Fluck, Linton A., and Lynn.
Niedercorn, Joseph G.
Patterson, Donald G.
Pfann, Harry F., and Kropa.
American Machine & Foundry Company, assignee: *See*—
Larsen, Carl H.
Rundell, Rupert E.
American Marsh Pumps, Inc., assignee: *See*—
Barton, Benjamin D.
American Metal Products Company, assignee: *See*—
Haberstump, Alfred H.
American Meter Company, assignee: *See*—
Gray, Robert B.
American Optical Company, assignee: *See*—
Barrington, John W.
Beitz, Richard C.
Ellis, Charles A.
American Sealcone Corporation, assignee: *See*—
Markle, Alfred.
American Seating Company, assignee: *See*—
Barecki, Chester J.
American Steel and Wire Company of New Jersey, The, assignee: *See*—
Febrey, Harold H.
American Viscose Corporation, assignee: *See*—
Fry, Horace P., Jr.
Spence, Harry R., Jr.
Ames, B. C., Co., assignee: *See*—
Ames, Warren.
Ames, Warren, Newton, assignor to B. C. Ames Co., Waltham, Mass. Gauge. 2,608,947, Sept. 2.
Amick, Erwin H., Jr., Linden, N. J., assignor to Standard Oil Development Company. Modified weak-acid isopropanol process. 2,609,400, Sept. 2.
Amyot, Pierre, Quebec, Quebec, Canada. Stiffened woven fabric. 2,609,013, Sept. 2.
Anacabe, Frank: *See*—
Gaviola, Frank, and Anacabe.
Anaconda Copper Mining Company, assignee: *See*—
Graham, Thomas K., and Etterer.
Anaconda Wire and Cable Company, assignee: *See*—
Snyder, Clermont J., and MacLelland.
Anciens Etablissements Barbier-Benard & Turenne, assignee: *See*—
Bénard, Christian L. G.
Anderson, Clare, Kinnelon, N. J. Sprayer nozzle. 2,609,238, Sept. 2.
Anderson, Raymond T., Lakewood, assignor to The V. D. Anderson Company, Cleveland, Ohio. Scrubber for solvent extraction towers. 2,609,186, Sept. 2.
Anderson, V. D., Company, The, assignee: *See*—
Anderson, Raymond T.
Andrews, Albert, Fort Collins, Colo. Resilient casing with slidable tool. 2,608,890, Sept. 2.
Andrews, Henry, assignor to Platt Products Corporation, Lansing, Mich. Liquid flow controlling valve. 2,608,993, Sept. 2.
Ardell, Edgar, Middletown, Conn., assignor, by mesne assignments, to Emhart Manufacturing Company. Case unloader. 2,609,109, Sept. 2.
Arelt, Eugene G., assignor to Onondaga Pottery Company, Syracuse, N. Y. Machine for finishing articles of pottery ware. 2,608,738, Sept. 2.
Armour and Company, assignee: *See*—
Storrs, Arnold B., and Froedge.
Armstrong Cork Company, assignee: *See*—
Barsy, Imre J.
Heinzelman, Earl E.
Armstrong, Victor C., Short Hills, N. J. Device for setting golf balls and tees. 2,609,198, Sept. 2.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Raburn, Louis E., and Woods.
Arnold, Robert C.: *See*—
Zimmerschied, Wilford J., and Arnold.
Aronson, David, Greensburg, assignor to Elliott Company, Jeannette, Pa. Combustion apparatus using compressed air. 2,609,040, Sept. 2.
Arthur, Robert A., Santa Monica, assignor to The Garrett Corporation, Airesearch Manufacturing Company division, Los Angeles, Calif. Flow control valve. 2,608,985. Sept. 2.
Arutunoff, Armais, Bartlesville, Okla. Apparatus for drilling deep wells. 2,609,182, Sept. 2.
Asmussen, Jes, Appleton, and F. Gruper, Menasha, assignors to Marathon Corporation, Rothschild, Wis. Winding apparatus. 2,609,157, Sept. 2.
Association of American Soap and Glycerine Producers, Inc., assignee: *See*—
Du Puis, Robert N., and Wright.
Atkins, E. C., and Company, assignee: *See*—
Chapin, William R.
Atlantic Refining Company, The, assignee: *See*—
Brownscombe, Eugene R.
Aue, Georg, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Centrifugal compressor. 2,609,141, Sept. 2.
Automatic Valve, Inc., assignee: *See*—
Gardner, Lawrence H.
Avins, Jack, Staten Island, N. Y., assignor to Radio Corporation of America. Keyed automatic gain control. 2,609,443, Sept. 2.
Babaud, Jean, assignor to Etablissements Charles Beaudouin, Paris, France. Movable magnet oscillograph. 2,609,410, Sept. 2.
Babcock, Eugene W., Perrysburg, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Bending mold locating device. 2,608,799, Sept. 2.
Babcock & Wilcox Company, The, assignee: *See*—
Hardgrove, Ralph M.
Woolley, Charles H.
Bachelet, Albert E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,609,455, Sept. 2.

Bachelet, Albert E., New York, N. Y., and F. K. Low, Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse counting and registration system. 2,609,498, Sept. 2.

Backofen, E. Ryan, and E. J. Dunham, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Industrial truck attachment. 2,609,114, Sept. 2.

Backteman, Per A.: *See*—
Grubb, Gunnar A., and Backteman.

Bahnson Company, The, assignee: *See*—
King, James F., Jr.

Bair, Walter E., Washington, D. C. Olive tongs. 2,609,228, Sept. 2.

Baker, Rhea V., Seattle, Wash. Reducing bulging of crusher jaw face-plates. 2,609,154, Sept. 2.

Baker, William O., Morristown, and F. H. Winslow, Springdale, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Ball bearing. 2,609,256, Sept. 2.

Balcar, Frederick R., Stamford, Conn., assignor to Air Reduction Company, Inc., New York, N. Y. Nitrous oxide production. 2,609,273, Sept. 2.

Baldwin, Donald T., Lincoln, Ill. Tool. 2,609,179, Sept. 2.

Ball Brothers Company, assignee: *See*—
Pasotti, Felice G.

Ball, Eustace T., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Door. 2,608,727, Sept. 2.

Ballantyne, Norman Z., Lewiston, Idaho. Beam amplifier tube. 2,609,515, Sept. 2.

Bank of Salem, The, administrator: *See*—
Moore, Thomas M.

Barecki, Chester J., assignor to American Seating Company, Grand Rapids, Mich. Chair. 2,609,034, Sept. 2.

Barkalow, Clare E.: *See*—
Kellogg, Spencer R., II, Hays, and Barkalow.

Barnhardt Manufacturing Company, assignee: *See*—
Goldman, Joseph.

Barrett, Harry B., St. Louis, Mo. Brake shoe bonding machine. 2,609,310, Sept. 2.

Barrington, John W., Rockville Centre, N. Y., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,608,904, Sept. 2.

Barrows, Donald S., and G. F. Couch, assignors to The Symington-Gould Corporation, Rochester, N. Y. Railway truck. 2,608,937, Sept. 2.

Barry, Joseph F., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Soldering apparatus for piezoelectric crystals. 2,608,745, Sept. 2.

Barsy, Imre J., assignor to Armstrong Cork Company, Lancaster, Pa. Temperature-responsive device. 2,609,406, Sept. 2.

Bartgis Brothers Company, The, assignee: *See*—
Toensmeier, Patrick A.

Bartlett, C. O., & Snow Co., The, assignee: *See*—
Hersey, Herbert S.

Bartolucci, Ben: *See*—
Schreier, Konrad F., and Bartolucci.

Barton, Benjamin D., assignor to American Marsh Pumps, Inc., Battle Creek, Mich. Spray gun for fire apparatus and the like. 2,609,239, Sept. 2.

Basdekis, Costas H., Springfield, and E. F. Jackson, Ludlow, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Removal of amine inhibitors from unsaturated monomers. 2,609,387, Sept. 2.

Bastin, Laurent, Roubaix, France. Winding apparatus for the web divider of finisher cards. 2,608,724, Sept. 2.

Beall, Charles R., La Grange, assignor to West Point Manufacturing Company, West Point, Ga. Positive letoff mechanism for looms. 2,609,007, Sept. 2.

Beaver, David J., Richmond Heights, assignor to Monsanto Chemical Company, St. Louis, Mo. Mercapto thiazolesulfur halide reaction products. 2,609,373, Sept. 2.

Beck, William R., assignor to Goodman Manufacturing Company, Chicago, Ill. Shuttle car. 2,609,116, Sept. 2.

Becker, Stanley C., New Castle, Ind. Saw handle. 2,609,020, Sept. 2.

Beckerman, Joseph, Kew Gardens, N. Y. Slider for slide fasteners. 2,608,734, Sept. 2.

Bedford, Leslie H. and L. Jofeh., assignors to A. C. Cossor Limited, London, England. Electrical differentiating circuit. 2,609,448, Sept. 2.

Beitz, Richard C., Amherst, N. Y., assignor to American Optical Company, Southbridge, Mass. Arc lamp or the like. 2,609,519, Sept. 2.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bachelet, Albert E.
Bachelet, Albert E., and Low.
Baker, William O., and Winslow.
Ball, Eustace T.
Barry, Joseph F.
Brown, John T. L., and Pollard.
Gerth, John H.
Goff, Harold W.
Graef, Robert P.
Hall, Oliver C.
Hecht, George.
Knapp, Harry M., and Zupa.
Pierce, John R.
Rea, Wilton T.
Sermeus, William T.
Skellett, Albert M.
Smith, Howard J.

Beliam, Joseph E., Seattle, Wash., assignor to Boeing Airplane Company. Airplane flap supporting and control mechanism. 2,609,166, Sept. 2.

Benander, George B., Oaklawn, R. I., and G. R. Lawson, Abington, Mass., assignors, by mesne assignments, to General Electric Company. Electric connector. 2,609,415, Sept. 2.

Bénard, Christian L. G., assignor to Anciens Etablissements Barbier-Benard & Turenne, Paris, France. Lighting of operating rooms. 2,609,484, Sept. 2.

Bendix Aviation Corporation, assignee: *See*—
Conviser, Harry.
Holmes, Bradford B.

Benedict, Manson, Westfield, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Mass diffusion process and apparatus. 2,609,059, Sept. 2.

Bengtsson, Erik B., Karlskoga, assignor to Aktiebolaget Bofors, Bofors, Sweden. Manufacture of bright, stable, and light-proof sulfonamide resins. 2,609,356, Sept. 2.

Benjamin, Cordelia P., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Suction cleaner adapted to carry cleaner tools. 2,608,709, Sept. 2.

Bennert, Malcolm O., Methuen, and N. C. Moore, West Newbury, Mass., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for supporting cores in toroidal coil winding machines. 2,608,892, Sept. 2.

Berg, Elaine, Chicago, Ill. Blouse holder. 2,608,691, Sept. 2.

Berg, Elaine, Chicago, Ill. Combined stocking supporter and blouse holder. 2,608,692, Sept. 2.

Bergeson, Harold B., Wilmington, Ill. Welding rod holder. 2,609,471, Sept. 2.

Berggren, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for continuously making vulcanized articles. 2,608,718, Sept. 2.

Bergson, Gustav, Georgetown, Pa., assignor to Radio Corporation of America. High input impedance transistor amplifier. 2,609,459, Sept. 2.

Bergstrom, Leonard A., Racine, Wis. Fertilizer spreader. 2,609,124, Sept. 2.

Berkeley Scientific Company, assignee: *See*—
Helkes, Norman L.

Berliner, Henry A., Washington, D. C., assignor to Engineering & Research Corporation, Riverdale, Md. Variable area tail pipe for jet engines. 2,608,820, Sept. 2.

Berry, Jack H.: *See*—
Paradise, Louis A., and Berry.

Bersworth, Frederick C., Verona, N. J. Phosphonic alkylene polyamino acids and producing same. 2,609,390, Sept. 2.

Bickford, Frederick E., Westchester, N. Y. Package forming machine. 2,608,915, Sept. 2.

Bicocchi, Louis, La Salle, Ill. Variable tone duck call. 2,608,796, Sept. 2.

Bile, Sheldon W.: *See*—
Borda, Laddy F., and Bile.

Binns, Jack N., and T. E. Dugle, Cincinnati, and A. F. Alt, Hamilton County, Ohio. Adjustably mounted insulator assembly. 2,609,418, Sept. 2.

Bitzer, Edmund C., Golden, assignor to Colorado Iron Works Company, Denver, Colo. Automatic flow control system for ore concentrators. 2,609,096, Sept. 2.

Björklund, Arvid, Minneapolis, Minn. Routing machine. 2,609,018, Sept. 2.

Blackford, Raymond H.: *See*—
Von Kokeritz, Karl, Blackford, and Schwaller.

Blafield, Roy, Newport News, Va. Hydraulic brake system. 2,609,067, Sept. 2.

Blair, Harold F., Naperville, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Impedance testing apparatus. 2,609,419, Sept. 2.

Blalock, Bryan, assignee: *See*—
Schultz, Myrtle M.

Blanchard, William A., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric protection means for looms. 2,609,010, Sept. 2.

Blanchard, William A., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Detector for warp stop motion. 2,609,011, Sept. 2.

Blazewicz, Edmond T., Chicago, Ill. Snap hook. 2,608,736, Sept. 2.

Blonder, Isaac S., Mount Vernon, N. Y. Thermorelay element. 2,609,466, Sept. 2.

Bludeau, Robert E., Denville, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Mechanical pulverization of refrigerated plastics, 2,609,150, Sept. 2.

Blue Channel Corporation, The, assignee: *See*—
Harris, Sterling G.

Boehm, Walter G.: *See*—
McBride, Jesse E., and Boehm.

Boeing Airplane Company, assignee: *See*—
Beliam, Joseph E.
Drakeley, George T., and Hanson.
Moorehead, James R., and Reinbold.

Boge, Herbert E., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Laminated pipe and making same. 2,609,319, Sept. 2.

Booth, Raymond L., Milford, assignor to Draper Corporation, Hopedale, Mass. Warp beam coupling. 2,609,005, Sept. 2.

Borda, Laddy F., Akron, and S. W. Bile, Barberton, Ohio. Apparatus for vulcanizing a repair area of a pneumatic tire. 2,609,477, Sept. 2.

Borg-Warner Corporation, assignee: *See*—
Flinn, George E.
Laramy, Richard C.

Bottemanne, Casper J., Voorburg, Netherlands, assignor to Dorus van Pel, Soerabaya, Indonesia. Trawlnet. 2,608,782, Sept. 2.

Boucher, Frank G., and A. B. Hildebrandt, Tulsa, Okla., assignors to Standard Oil Development Company. Remote reading compass unit. 2,609,513, Sept. 2.

Bower, William L., assignor to James Neill & Company (Sheffield) Limited, Sheffield, England. Magnetic work holder. 2,609,430, Sept. 2.

Bowles, Vernon O., Rye, and A. H. Schutte, Hastings on Hudson, assignors to The Lummus Company, New York, N. Y. Hydrocarbon conversion. 2,609,332, Sept. 2.

Bowman & Drussa Plumbing and Heating Co., assignee: *See*—
Utley, Arthur B.

Boyd, James H., New York, N. Y., assignor to Phillips Petroleum Company. Azeo-extractive distillation. 2,609,333, Sept. 2.

Boyden, Robert E., Los Angeles, and E. P. Drake, Glendale, assignors to Clary Multiplier Corporation, Los Angeles, Calif. Clutch control mechanism. 2,609,145, Sept. 2.

Boyer, Raymond F.: *See*—
Rubens, Louis C., and Boyer.

Boyker, Robert O., assignee: *See*—
Moen, Alfred M.

Bradley, Robert L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Thread waxing device. 2,608,950, Sept. 2.

Bradley, Roy C., San Bernardino, Calif. Film reeling assembly. 2,609,158, Sept. 2.

Braendel, Helmuth G.: *See*—
Wilkening, Frederick W., Braendel, and Engelhardt.

Braselton, Chester H., New York, N. Y. Cartridge-type linstick. 2,609,092, Sept. 2.

Bratton, Samuel M., assignor to The Pusey & Jones Corporation, Wilmington, Del. Suction box connection to manifold. 2,608,913, Sept. 2.

Breedlove, Harry B., and H. G. Abbott, Baton Rouge, La., assignors to Standard Oil Development Company. Fluid sampling equipment. 2,608,866, Sept. 2.

Brehob, Edward C., Indianapolis, Ind. Air bleed structure for automatically controlling air and fuel ratio in carburetors at varying engine speeds. 2,609,188, Sept. 2.

Brent, Allen D., assignor to Southern Fertilizer & Chemical Company, Savannah, Ga. Longitudinally and transversely adjustable conveyer. 2,609,076, Sept. 2.

Brink, Norman G., Princeton, and T. R. Wood, Murray Hill, assignors to Merck & Co., Inc., Rahway, N. J. Recovery of vitamin B_{12} from liver. 2,609,325, Sept. 2.

British Celanese Limited, assignee: *See*—
Ellison, Thomas, and Leuty.

British Iron & Steel Research Association, The, assignee: *See*—
Watson, James D., and Carlisle.

Brooks, Thomas E., assignor to Lisle Corporation, Clarinda, Iowa. Piston and connecting rod aligner. 2,609,208, Sept. 2.

Brough, James, Pickering, Ontario, assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada. Vertically arranged hammer mill. 2,609,152, Sept. 2.

Brown, Charles F., assignor to Hemphill Company, Pawtucket, R. I. Yarn clamp. 2,608,845, Sept. 2.

Brown, Ellis M., assignor to John Oster Manufacturing Company, Racine, Wis. Bearing construction. 2,609,253, Sept. 2.

Brown, John T. L., Short Hills, and C. E. Pollard, Jr., Hohokus, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,609,464, Sept. 2.

Browne-Morse Company, assignee: *See*—
Poe, William A.

Brownscombe, Eugene R., Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa. Recovery of oil from wells. 2,609,051, Sept. 2.

Bruner, Walter M., Wilmington, and E. T. Darden, New Castle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azeotropic distillation of propionamide. 2,609,336, Sept. 2.

Buchan, James, assignor of two-thirds to J. A. King, and John Laird & Son, Limited, Glasgow, Scotland. Powder distributing drum. 2,609,126, Sept. 2.

Buckendale, Lawrence R., and E. V. Elconin, assignors to The Timken-Detroit Axle Company, Detroit, Mich. Pintle hook. 2,609,213, Sept. 2.

Buffalo Electro-Chemical Company, Inc., assignee: *See*—
Greenspan, Frank P., and MacKellar.

Bügel, Roelof D., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electrolytic condenser. 2,609,426, Sept. 2.

Buhl, Walter T., Shaker Heights, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Gyro vertical. 2,608,868, Sept. 2.

Bula, Frank J., Speedway, Ind., assignor of one-third to V. T. Connor and one-third to T. Kruse, Chicago, Ill. Simulated bowling game. 2,609,203, Sept. 2.

Bullas, Roy, assignee: *See*—
Weber, Clarence S.

Bulliet, Leander J., Rockford, assignor to Odin Corporation, Chicago, Ill. Magnetic grapple can loading machine. 2,609,133, Sept. 2.

Burdick Corporation, The, assignee: *See*—
Gilson, Warren E.

Burnell, William A., Kenton, England. Skirt hanger. 2,609,130, Sept. 2.

Burns, J., Limited, assignee: *See*—
Fletcher, Kenneth A.

Burrell, Harold P., Noroton, Conn., assignor to Western Foundation Corporation, New York, N. Y. Foundation structure. 2,608,830, Sept. 2.

Burrell, Loomis: *See*—
Rishol, Alfred H., Weinreich, and Burrell.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Russell, Peter B., and Whittaker.

Bush, A. G., assignee: *See*—
Criner, Harry J.

Bush, Russell J.: *See*—
Morgann, Robert O., and Bush.

Bush, Theodore R., Royal Oak, Mich. Electric motor driven jig-saw unit. 2,609,016, Sept. 2.

Byrne, Edward A.: *See*—
Kolb, Philip C., and Byrne.

Bywater, James E., Whitnash, near Leamington Spa, and R. F. Hale, Seven Kings, England, assignors to Ford Motor Company, Dearborn, Mich. Three-point front implement mounting for tractors. 2,608,924, Sept. 2.

Cabin Crafts, Inc., assignee: *See*—
McCamy, Robert G.

Cahill, John L., Dayton, Ohio. Automatic shutoff fuel valve. 2,608,984, Sept. 2.

Camfield Manufacturing Company, assignee: *See*—
Olson, Henry L., and Miller.

Canada, Her Majesty the Queen in the right of, as represented by the Minister of Mines and Technical Surveys, assignee: *See*—
Meier, Jerzy W.

Carborundum Company, The, assignee: *See*—
Swentzel, John P.
Thomas, James A., Jr.

Carlisle, Samuel S.: *See*—
Watson, James D., and Carlisle.

Carson, Howard: *See*—
Geyer, Howard M., and Carson.

Carter, Lynn B., Grand Forks, N. Dak. Device for attaching auxiliary wheels to tractors. 2,609,247, Sept. 2.

Carver, George P. *See*—
Moore, Walter L., and Carver.

Casaccia, Ugo: *See*—
Lisi, Cosimo, and Casaccia.

Casler, John R., Elizabeth, and C. C. Nelson, Cranford, N. J., assignors to Standard Oil Development Company. Liquid-liquid extraction process and tower. 2,609,276, Sept. 2.

Cass, William E., Schenectady, N. Y., assignor to General Electric Company. Resinous compositions of styrene, castor oil, and a diisocyanate. 2,609,349, Sept. 2.

Catalytic Chemicals Division of E. F. Drew Co., Inc., assignee: *See*—
Faulkner, Seymour.

Cathodeon Limited, assignee: *See*—
Townsend, Frederick H.

Cattaneo, Alfred G., Contra Costa County, assignor to Shell Development Company, San Francisco, Calif. Aircraft fuel tank. 2,609,118, Sept. 2.

Celanese Corporation of America, assignee: *See*—
Kimpton, William H.

Černocký, Anděloslav, Prague, Czechoslovakia. Floater lock chamber. 2,608,827, Sept. 2.

Chamberlain, Jerry C., Phoenix, Ariz. Automobile canopy. 2,609,042, Sept. 2.

Chapin, William R., assignor to E. C. Atkins and Company, Indianapolis, Ind. Circular saw blade with tension stabilizing holes. 2,609,017, Sept. 2.

Chapman, Charles C.: *See*—
Dougherty, Charles F., Jr., and Chapman.

Chater, John A., Topsham, Maine, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Moistened dust spraying machine. 2,608,792, Sept. 2.

Cheesman, Theodore A., Kalama, Wash. Hydraulic jack. 2,608,825, Sept. 2.

Cheney, Leroy K., Lansing, Ill., assignor to Sinclair Refining Company, New York, N. Y. Pyrolytic conversion of oil shale. 2,609,331, Sept. 2.

Cherry-Burrell Corporation, assignee: *See*—
Rishol, Alfred H., Weinreich, and Burrell.

Chilton, Roland, Glen Rock, N. J., assignor to Curtiss-Wright Corporation. Universal joint. 2,608,839, Sept. 2.

Chrigström, Knut V., Hammarbyhojden, Sweden. Guide for hypodermic syringes. 2,608,972, Sept. 2.

City National Bank and Trust Company, administrator: *See*—
Gemmill, Clark H.

Clark Equipment Company, assignee: *See*—
Backofen, E. R., and Dunham.
Lapsley, Robert.

Clark, Orrin H.: *See*—
White, James R., Clark, and woods.

Clarke, William W.: *See*—
Zademach, Erich R., and Clarke.
Clary Multiplier Corporation, assignee: *See*—
Boyden, Robert E., and Drake.
Clary, Stanley T.: *See*—
Goldstein, Herman B., and Clary.
Cleghorn, George S.: *See*—
Gray, Basil, and Cleghorn.
Cleveland Welding Company, The, assignee: *See*—
Mueller, Homer L.
Cluskey, James E.: *See*—
Wolff, Ivan A., Davis, Cluskey, and Gundrum.
Cluzel, Albert C., Ridgewood, N. J. Apparatus for and method of making printing screens. 2,608,750, Sept. 2.
Coats, Robert R.: *See*—
Davies, Phineas, Reynolds, Coats, and Taylor.
Coeterier, Frederik, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Velocity modulated electron device. 2,609,521, Sept. 2.
Coffey, Joseph F.: *See*—
Russum, Leonard W., and Coffey.
Collman, Gilbert, Newton Abbot, England. Water supply or control apparatus. 2,608,987, Sept. 2.
Colorado Iron Works Company, assignee: *See*—
Bitzer, Edmund C.
Combined Metals Reduction Company, assignee: *See*—
Dering, Roger.
Combüchen, Peter: *See*—
Kloss, Richard, Engels, and Combüchen.
Comley, Eugene A.: *See*—
Morgan, Jack R., Alexander, and Comley.
Commercial Solvents Corporation, assignee: *See*—
Senkus, Murray, and Markunas.
Commerce, United States of America as represented by the Secretary of, assignee: *See*—
Forman, Ralph.
Commercial Solvents Corporation, assignee: *See*—
Stanley, Alfred R.
Conangla, Amado, Sharon Hill, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Reclosing circuit breaker. 2,609,421, Sept. 2.
Condemi, Bruno, Yardville, N. J. Crib rocking mechanism. 2,608,697, Sept. 2.
Cone Automatic Machine Company Inc., assignee: *See*—
Ranney, Herbert H.
Conner, William L., Philadelphia, Pa. Surgical truss with adjustable pad. 2,608,970, Sept. 2.
Connolly, John J.: *See*—
Marshall, Joseph C., and Connolly.
Connor, Vincent T., assignee: *See*—
Bula, Frank J.
Conover, James H.: *See*—
Frost, Orcutt W., and Conover.
Consolidated Sewing Machine & Supply Co., Inc., assignee: *See*—
Schulder, Paul.
Container Corporation of America, assignee: *See*—
Rothe, Charles R., and D'Esposito
Sider, Nicholas M.
Conviser, Harry, Ardsley, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Frequency meter 2,609,512, Sept. 2.
Cook, Harold A., assignee: *See*—
Harris, George M.
Coons, Burton C., San Jose, Calif., assignor to Food Machinery and Chemical Corporation. Pea harvesting and threshing machine. 2,608,973, Sept. 2.
Cooper, Henry J., Stockport, England. Weft replenishing apparatus for weaving looms. 2,609,008, Sept. 2.
Coote, Jack H., London, and W. H. Gathercole, Surrey, assignors to Dufay-Chromex Limited, London, England. Photographic—multilayer stripping films. 2,609,291, Sept. 2.
Copthorne, Howard N., Winnetka, Ill. Rust inhibiting material. 2,609,302, Sept. 2.
Cordero, Fidel: *See*—
Sontag, Harcourt C., Cordero, and Womack.
Corn Products Refining Company, assignee: *See*—
Pigman, William W., Kerr, and Schink.
Corning Glass Works, assignee: *See*—
Crawford, Clark A., and Miller.
Cossor, A. C., Limited, assignee: *See*—
Bedford, Leslie H., and Jofeh.
Couch, Glenn F.: *See*—
Barrows, Donald S., and Couch.
Couper, Monroe, Waynesboro, assignor to Institute of Textile Technology, Charlottesville, Va. Mildewproof cellulose produced by reaction with chloro-benzyl quaternary ammonium salts. 2,609,270, Sept. 2.
Cousins, Harry D., Chicago, Ill. Electric connector. 2,609,416, Sept. 2.
Cox, Thomas K., Randallstown, and F. P. Lyons, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Retractile cord and making it. 2,609,417, Sept. 2.
Craig, Willis G., Willoughby, assignor to The Lubrizol Corporation, Wickliffe, Ohio. Nitrobenzyl thiophosphate esters. 2,609,383, Sept. 2.
Cramer, Roy A., Kansas City, Mo. Chair with automatically shiftable seat and adjustable back. 2,609,032, Sept. 2.
Cranner, Bjarne, Holen, Ostofoldbanen, Norway. Jaw design and adjusting means for pipe tongs. 2,608,893, Sept. 2.
Crawford, Clark A., Corning, and A. Miller, Elmira, assignors to Corning Glass Works, Corning, N. Y. Electrically heated appliance and stand therefor. 2,609,478, Sept. 2.
Crawford, Harvey B., La Canada, Calif. Hose carrier. 2,609,231, Sept. 2.
Cremean, Alva D., Searcy, Ark. Fuel mixing device. 2,609,280, Sept. 2.
Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Automatic shutoff valve. 2,608,998, Sept. 2.
Crockett, Thomas E., Corpus Christi, Tex., assignor, by mesne assignments, to Crockett Valve Corporation, Los Angeles, Calif. Valve assembly. 2,608,990, Sept. 2.
Crockett, Thomas E., Corpus Christi, Tex. Toilet flush tank mechanism. 2,608,991, Sept. 2.
Crockett Valve Corporation, assignee: *See*—
Crockett, Thomas E.
Crompton & Knowles Loom Works, assignee: *See*—
Blanchard, William A.
Cromwell, Harold J.: *See*—
Schneider, Paul L., Taylor, and Cromwell.
Crossley, Frank S., Collingdale, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Cinnamyl quaternary ammonium compounds. 2,609,392, Sept. 2.
Crossley, Frank S., Collingdale, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Dodecyl, dimethyl, -cinnamyl-ammonium halides. 2,609,393, Sept. 2.
Crowhurst, James A., assignor to The De Havilland Aircraft Company Limited, Hatfield, England. Variable-pitch airscrew. 2,609,057, Sept. 2.
Csenesics, Steve, Erie, Pa. Tapping machine. 2,608,699, Sept. 2.
Culling, Merritt A., Louisiana, Mo., assignor to he United States of America as represented by the Secretary of the Interior. Surfacing method and apparatus. 2,608,895, Sept. 2.
Curtiss-Wright Corporation, assignee: *See*—
Chilton, Roland.
Gray, Russell D., Jr., and Paecht.
Cutler-Hammer, Inc., assignee: *See*—
Elliot, William H.
Dallenbach, Frederick: *See*—
Pavlecka, Vladimir H., and Dallenbach.
Dalzell, Harold L.: *See*—
Farrington, Thayer B., and Dalzell.
Dany, Elmer W., Brecksville, Ohio, assignor to Ferro Corporation. Continuous furnace. 2,608,740, Sept. 2.
D'Aragon, Paul, Val d'Or, Quebec, Canada. Pulverizing and classifying machine. 2,609,151, Sept. 2.
Darden, Eugene T.: *See*—
Bruner, Walter M., and Darden.
Darling, Robert F., Monkseaton, assignor to The Parsons and Marine Engineering Turbine Research and Development Association, Wallsend, England. Sprayer stop valve. 2,609,237, Sept. 2.
Daul, George C., and J. D. Reid, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Reacting polyvinyl-alcohol with urea phosphate. 2,609,360, Sept. 2.
Daves, Bruner R., and W. L. Irvine, Claremont, Calif. Box stacking mechanism. 2,609,111, Sept. 2.
David, Mario T., Los Angeles, Calif. Needle threader. 2,609,131, Sept. 2.
Davies, Phineas, R. W. Reynolds, R. R. Coats, and A. W. C. Taylor, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Production of amines. 2,609,394, Sept. 2.
Davis, Arthur G.: *See*—
Wheat, Grant, and Davis.
Davis, Harold M., North Calais, assignor to Precision Paper, Inc., Calais, Vt. Apparatus for producing paper. 2,608,912, Sept. 2.
Davis, Howard A.: *See*—
Wolff, Ivan A., Davis, Cluskey, and Gundrum.
Dawson, John W., Palo Alto, Calif., assignor to Raytheon Manufacturing Company, Newton, Mass. Electron discharge device. 2,609,497, Sept. 2.
Dayton Rubber Company, The, assignee: *See*—
Schmidt, Erwin J.
Waugh, Dale L.
Dean Rubber Manufacturing Company, assignee: *See*—
Fry, Charles H.
De Beer, Robert H.: *See*—
Reijnst, Maximilien F., and de Beer.
De Directie van de Staatsmijnen in Limburg, assignee: *See*—
Plusje, Mathijs H. R. J.
Deere & Company, assignee: *See*—
Paradise, Louis A., and Berry.
Deere, John, Killefer Company, assignee: *See*—
Frank, William R.
De Havilland Aircraft Company Limited, The, assignee: *See*—
Crowhurst, James A.
Deobald, Harold J.: *See*—
Singer, Philip A., and Deobald.

Dering, Roger, assignor to Combined Metals Reduction Company, Salt Lake City, Utah. Flotation machine. 2,609,097, Sept. 2.
Dering, Roger, assignor to Combined Metals Reduction Company, Salt Lake City, Utah. Machine for conditioning liquids with gases. 2,609,189, Sept. 2.
D'Esposito, Julian: *See*—
Rothe, Charles R., and D'Esposito.
Devoe & Reynolds Company, Inc., assignee: *See*—
First, Melvin J.
De Vries Robbe & Co. N. V., Arkelschedijk, assignee: *See*—
Wieland, Jacob.
Dickinson, Harold O.: *See*—
Waller, Cecil and Dickinson.
Diebold, Anton, assignor to The Marbelite Company, Inc., New York, N. Y. Traffic signal controller. 2,609,434, Sept. 2.
Dillon, Samuel A., United States Navy. Split engine cover. 2,609,164, Sept. 2.
Dimick, Daniel B., Wellesley, assignor to Dimick-Mosher Products Company, Boston, Mass. Cradle invert subsoil drainage pipe. 2,608,828, Sept. 2.
Dimick-Mosher Products Company, assignee: *See*—
Dimick, Daniel B.
Dippel, Cornelis J.: *See*—
Alink, Roelof J. H., Dippel and Houtman.
Distillers Company Limited, The, assignee: *See*—
Salt, Francis E., Webster and Galitzenstein.
Dominion Textile Company Limited, assignee: *See*—
Strew, Kenneth G.
Doud, Joseph F., Buffalo, N. Y. Squaring tool. 2,608,765, Sept. 2.
Dougherty, Charles F., Jr., Bartlesville, Okla., and C. C. Chapman, Phillips, Tex., assignors to Phillips Petroleum Company. Oxidation of hydrocarbons. 2,609,395, Sept. 2.
Douglas, William A., Pasadena, Calif., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Scavenging engine bearings. 2,609,065, Sept. 2.
Dow Chemical Company, The, assignee: *See*—
Rubens, Louis C., and Boyer.
Drake, Edward P.: *See*—
Boyden, Robert E., and Drake.
Drakeley, George T., Seattle, and C. V. Hanson, near Renton, assignors to Boeing Airplane Company Seattle, Wash. Oleo-pneumatic shock strut. 2,609,195, Sept. 2.
Draper Corporation, assignee: *See*—
Booth, Raymond L.
Dreyfus, Ludwig, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Electric high-frequency generator. 2,609,412, Sept. 2.
Dubinsky, Alfred J., La Crosse, Wis. Sectional window drapery and liner. 2,609,043, Sept. 2.
Dubow, J. A., Manufacturing Co., Inc., assignee: *See*—
Winterbauer, Henry T.
Dufay-Chromex Limited, assignee: *See*—
Coote, Jack H., and Gathercole.
Duff, John R., Youngstown, Ohio. Golf ball cleaner. 2,608,705, Sept. 2.
Dugle, Thomas E.: *See*—
Binns, Jack N., Dugle and Alt.
Dunham, Elmer J.: *See*—
Backofen, E. Ryan and Dunham.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Brüner, Walter M., and Darden.
Firestine, John C.
Flenner, Albert L.
Gresham, William F., and Kubico.
Kvalnes, Hamline M.
Pyle, Cyrus, and Lane.
Samans, Walter A., and Weaver.
Schreyer, Ralph C.
Scott, George W.
Torrence, Maynard F.
Umberger, Jacob Q., and Grumbine.
Verbanc, John J.
Winter, Charles H., Jr.
Du Puis, Robert N., Northbrook, Ill., and H. J. Wright, Kaukauna, Wis., assignors to Association of American Soap and Glycerine Producers, Inc. Short-oil alkyd resin of low acid number and preparing the same. 2,609,348, Sept. 2.
Durabla Manufacturing Company, assignee: *See*—
Von Kokeritz, Karl, Blackford and Schwaller.
Durkee Bakery of Carthage, Inc., assignee: *See*—
Williams, Paul L.
Dynamatic Corporation, assignee: *See*—
Jaeschke, Ralph L.
Early, Harold C., Ann Arbor, Mich., assignor to the United States of America as represented by the Secretary of War. Radio frequency wattmeter. 2,609,450, Sept. 2.
Easly, Joseph C., and H. L. Kellner, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Regeneration of a fixed-bed Fischer-Tropsch catalyst. 2,609,345, Sept. 2.
East Coast Aeronautics, Inc., assignee: *See*—
Miller, Roy G.
Eastern Metals Research Co. Inc., assignee: *See*—
Foster, Edwin E.
Lermont, Basil.
Eastman Kodak Company, assignee: *See*—
Hickman, Kenneth C. D.
Ehrenstein, Maximilian R., assignor to The Trustees of The University of Pennsylvania, Philadelphia, Pa. Ring A aromatized steroidal compounds and preparing them. 2,609,377, Sept. 2.
Eisner, Johannes, Copenhagen, Denmark, assignor to F. S Smidth & Co., New York, N. Y. Method and apparatus for increasing fluidity of material. 2,609,185, Sept. 2.
Eitel-McCullough, Inc., assignee: *See*—
McCullough, Jack A.
Elconin, Eli V.: *See*—
Buckendale, Lawrence R., and Elconin.
Elgel Inc., assignee: *See*—
Leland, Pardon K.
Elliot, William H., Shorewood, assignor to Cutler Hammer, Inc., Milwaukee, Wis. Capacitor control. 2,609,424, Sept. 2.
Elliott Company, assignee: *See*—
Aronson, David.
Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Eye protection device. 2,608,687, Sept. 2.
Ellison, Thomas, and S. G. Leuty, Spondon, near Derby, England, assignors to British Celanese Limited. Power transmission belt. 2,608,875, Sept. 2.
Emhart Manufacturing Company, assignee: *See*—
Ardell, Edgar.
Engel, Harry C., Towson, and W. W. Troxell and T. P Pajak, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Machine for making honeycomb core material. 2,609,314, Sept. 2.
Engel, Harry C., Towson, and W. W. Troxell and T. P. Pajak, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Making honeycomb core material. 2,609,315, Sept. 2.
Engelhardt, Carl F.: *See*—
Wilkening, Frederick W., Braendel, and Engelhardt.
Engels, Erich G.: *See*—
Kloss, Richard, Engels, and Combüchen.
Engineering & Research Corporation, assignee: *See*—
Berliner, Henry A.
Engler, Max, assignor to The General Tire and Rubber Company, Akron, Ohio. Supplemental support for assembling ply material bands. 2,609,311, Sept. 2.
English Steel Corporation Limited, assignee: *See*—
Gray, Basil, and Cleghorn.
Equipment and Engineering Co., Limited, The, assignee: *See*—
Hayes, George.
Erbguth, Paul F. K., Great Neck, N. Y., assignor to Weston Electrical Instrument Corporation, Newark, N. J. Industrial thermometer. 2,608,863, Sept. 2.
Erickson, Bernard A.: *See*—
Kuring, William A., and Erickson.
Etablissements Charles Beaudouin, assignee: *See*—
Babaud, Jean.
Etterer, Carl P.: *See*—
Graham, Thomas K., and Etterer.
Evans, Harry M., Graham Township, Clearfield County, Pa. Puncturing dispenser for canned liquids. 2,609,121, Sept. 2.
Eyles, Thomas H., assignor to Foster Grant Co., Inc., Leominster, Mass. Ornamented ophthalmic frame. 2,609,278, Sept. 2.
Failing, George E., Supply Company, The, assignee: *See*—
Alexander, Emmett L.
Falkenstein, Louis F., Franklin Square, N. Y. Course or condition maintenance. 2,609,526, Sept. 2.
Faltz, Daniel J., Irwin, Pa. Electric power failure alarm device. 2,609,431, Sept. 2.
Farbwerke Hoechst vormals Meister Lucius & Bruning, assignee: *See*—
Ruschig, Heinrich.
Farrell, Edward A., North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Method and apparatus foir making flexible tubular coverings. 2,609,312, Sept. 2.
Farrington, Thayer B., Cleveland Heights, and H. L. Dalzell, assignors to The Thompson Electric Company, Cleveland, Ohio. Motor-driven lamp hanger. 2,609,170, Sept. 2.
Faulkner, James Nutley, and A. Toth, Clark, assignors to Pyrene Manufacturing Company, Newark, N. J. Controlled discharge foam nozzle. 2,609,240, Sept. 2.
Faulkner, Seymour, Summit, N. J., assignor to Catalytic Chemicals Division of E. F. Drew & Co., Inc , New York, N. Y. Preparation of a nickel catalyst dispersed in fat. 2,609,346, Sept. 2.
Fausset, Ernest R., Ingalls, and M. E. Todd, Windfall, Ind., assignors to General Motors Corporation, Detroit, Mich. Cam grinding machine. 2,608,802, Sept. 2.
Fawkes, E. W., assignee: *See*—
Weaver, Paul.
Faximile, Inc., assignee: *See*—
Hester, Frank A.
Febrey, Harold H., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Armored rail bond. 2,609,147, Sept. 2.
Federal Telecommunication Laboratories, Inc., assignee: *See*—
Losti, Arnold.
Fennelley, Joseph C., Kansas City, Mo., assignor, by mesne assignments, of one-half to H. Struve Hensel, New York, N. Y. Blade injector and blade disposal device for injector type razors. 2,608,755, Sept. 2.

Ferenci, Lester, Indianapolis, Ind., assignor to International Cigar Machinery Company. Cigarillo machine. 2,608,974, Sept. 2.

Fernandez, Filiberto, Newark, N. J. Hydraulic sausage-stuffing machine. 2,608,715, Sept. 2.

Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydrodynamic machine. 2,608,933, Sept. 2.

Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydrodynamic machine. 2,608,934, Sept. 2.

Ferro Corporation, assignee: *See*—
Dany, Elmer W.

Fichtner, Edwin C., Burlingame, assignor to Wells Manufacturing Company, San Francisco, Calif. Thermo-sealing device and sole therefor. 2,609,316, Sept. 2.

Field, Henry M., Dayton, Ohio. Abrasive polishing wheel. 2,608,804, Sept. 2.

Finke, Theodore R., Euclid, assignor to The Radiart Corporation, Cleveland, Ohio. Utility stool. 2,609,033, Sept. 2.

Finlayson, Frank E., Ontario, Calif., assignor to General Electric Company. Steam iron having improved water reservoir and steam generator. 2,608,773, Sept. 2.

Firestine, John C., South River, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Carbocyanine dyes. 2,609,371, Sept. 2.

First, Melvin J., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Brushmaking machine. 2,609,241, Sept. 2.

Fitzgerald, Frank R., El Monte, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,609,183, Sept. 2.

Flenner, Albert L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of certain salts of alkylene bisdithiocarbamic acids. 2,609,389, Sept. 2.

Fletcher, Kenneth A., Seven Kings, assignor to J. Burns Limited, Shadwell Heath, England. Signaling on railways. 2,609,488, Sept. 2.

Flinn, George E., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission control. 2,608,880, Sept. 2.

Flory, Leslie E., Princeton, N. J., assignor to Rad'o Corporation of America. Forming and utilizing electron-beams of noncircular cross section. 2,609,516, Sept. 2.

Fluck, Linton A., Pluckemin, and J. E. Lynn, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Treatment of wool with acid aminotriazine resin colloids. 2,609,307, Sept. 2.

Fluorescent Electric Manufacturing Company, The, assignee: *See*—
Roberts, Earl T.

Folmsbee, Clyde H., Bloomsburg, and J. M. Martis, Wilkes-Barre; Pa., assignors to American Car and Foundry Company, New York, N. Y. Dual safety valve assembly. 2,608,992, Sept. 2.

Food Machinery and Chemical Corporation, assignee: *See*—
Chater, John A.
Coons, Burton C.
Thompson, Albert R.

Forbes, James E., U. S. Navy. Indicating instrument. 2,608,948, Sept. 2.

Ford Motor Company, assignee: *See*—
Bywater, James E., and Hale.

Forman, Ralph, Hyattsville, Md., assignor to the United States of America as represented by the Secretary of Commerce. Glass valve. 2,608,996, Sept. 2.

Fosnaugh, Benjamin S., Renton, assignor of one-half to Adolph Spreckles, Seattle, Wash. Fishing rod wrapping device. 2,609,155, Sept. 2.

Foster, Edwin E., Austin, Tex., assignor, by mesne assignments, to Eastern Metals Research Co. Inc., New York, N. Y. Spring counterbalance. 2,609,191, Sept. 2.

Foster, Edwin E., Austin, Tex., assignor, by mesne assignments, to Eastern Metals Research Co., Inc., New York, N. Y. Spring sash counterbalance. 2,609,193, Sept. 2.

Foster Grant Co., Inc., assignee: *See*—
Eyles, Thomas H.

Foster, Theodore D., and R. A. Lauterbur, assignors to The Monarch Machine Tool Co., Sidney, Ohio. Tool slide. 2,608,897, Sept. 2.

Foster-Wheeler Corporation, assignee: *See*—
Raven, Jan P. C.

Fox, Myron R., Brookville, Ohio. Denture modeling articulator. 2,608,762, Sept. 2.

Fox, Russell P.: *See*—
Heise, George W., and Fox.

Francis, Charles B., Pittsburgh, Pa., assignor to Loftus Engineering Corporation. Apparatus and method for cleaning open hearth stack gases. 2,609,063, Sept. 2.

Frank, William R., Bell, assignor to John Deere Killefer Company, Los Angeles, Calif. Offset disk harrow links. 2,608,813, Sept. 2.

Frank, William R., Bell, Calif., assignor to John Deere Killefer Company. Offset disk harrow. 2,608,814, Sept. 2.

Frehse, Walter, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Double toggle gasket. 2,609,070, Sept. 2.

French, George F., and R., Manchester, England. Woven ladder webbing. 2,609,012, Sept. 2.

French, Roger: *See*—
French, George F., and R.

Frenkel, Meyer, London, England. Heat exchanger. 2,609,184, Sept. 2.

Froedge, James R.: *See*—
Storrs, Arnold B., and Froedge.

Frost, Orcutt W., Highland Park, and J. H. Conover, assignors to United States Gypsum Company, Chicago, Ill. Concrete form lining material. 2,608,911, Sept. 2.

Fry, Charles H., assignor to Dean Rubber Manufacturing Company, North Kansas City, Mo. Apparatus for testing and sorting thin rubber goods. 2,609,094, Sept. 2

Fry, Horace P., Jr., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Apparatus for the liquid treatment of yarns and the like. 2,608,850, Sept. 2.

Fryling, Charles F., Phillips, and C. A. Uraneck, Borger, Tex., assignors to Phillips Petrolum Company. Emulsion polymerization in systems containing an organic hydroperoxide. 2,609,362, Sept. 2.

Fryling, Charles F., and J. E. Troyan, Phillips, Tex., assignors to Phillips Petroleum Company. Use of methanol in emulsion polymerization. 2,609,366, Sept. 2.

Fuld, Walter S., New York, N. Y. Cutter for onions and the like. 2,609,023, Sept. 2.

G. H. Patents Limited, assignee: *See*—
Hayes, George.

Gair, Robert, Company, Inc., assignee: *See*—
Weiss, Arthur J.

Galitzenstein, Eugen: *See*—
Salt, Francis E., Webster, and Galitzenstein.

Galitzenstein, Gertrud, legal representative: *See*—
Salt, Francis E., Webster, and Galitzenstein.

Gamboney, William, Chicago, Ill. Saw vise. 2,608,747, Sept. 2.

Gambrill, Richard D., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for testing connectors for leakage. 2,608,854, Sept. 2.

Gant, Claud W., Dallas, Tex. Upholstering tool. 2,608,793, Sept. 2.

Garbell, Maurice A., San Francisco, Calif. Surface marking system for aircraft runways. 2,609,437, Sept. 2.

Gardner, Lawrence H., Detroit, assignor to Automatic Valve, Inc., Farmington, Mich., Solenoid actuating reversing valve. 2,608,995, Sent. 2.

Garrett Corporation, Airesearch Manufacturing Company division, The, assignee: *See*—
Arthur Robert A.

Gascoignes (Reading) Ltd., assignee: *See*—
Kingston, Jonas A.

Gaskell, William W., Jr., Penn Township, Allegheny County, Pa. Rapid percolator. 2,608,927, Sept. 2.

Gathercole, William H.: *See*—
Coote, Jack H., and Gathercole.

Gaver, Kenneth M., E. P. Lasure, and L. M. Thomas, assignors to Ohio State University Research Foundation, Columbus, Ohio. Gum reaction product and processes. 2,609,367, Sept. 2.

Gaver, Kenneth M., assignor to The Ohio State University Research Foundation, Columbus, Ohio. Carbohydrate processes. 2,609,368, Sept. 2.

Gaver, Kenneth M., and E. P. Lasure, Columbus, Ohio, and D. V. Tleszen, Delmar, N. Y., assignors to Ohio State University Research Foundation, Columbus, Ohio. Production of new carbohydrate compounds. 2,609,370, Sept. 2.

Gaviola, Frank, and F. Anacabe, Elko, Nev. Reciprocating power-driven saw. 2,609,015, Sept. 2.

Geigy Company Limited, The, assignee: *See*—
Jones, Harry, and Aiken.

Gemmill, Clark H., deceased, Chicago, Ill.; City National Bank and Trust Company administrator of said C. H. Gemmill. Electrically driven portable appliance. 2,609,525, Sept. 2.

General Aniline & Film Corporation, assignee: *See*—
Spatt, Carl.
Zoss, Abraham O.

General Electric Company, assignee: *See*—
Benander, George B., and Lawson.
Cass, William E.
Douglas, William A.
Finlayson, Frank E.
Hunsaker, Eugene L.
Quinn, Frederic R.

General Electric Company Limited, The, assignee: *See*—
Sowter, Anthony B.

General Motors Corporation, assignee: *See*—
Albinson, Harold H.
Fausset, Ernest R., and Todd.
Geyer, Howard M., and Carson.
Kearful, Godfrey G., Verbrugge, and Malone.
Morgann, Robert O., and Bush.
Schilling, Robert.
Schneider, Paul L., Taylor, and Cromwell.
Terhune, Frank A.
Van Degrift, Thomas C.
Worden, Donald P.

General Tire and Rubber Company, The, assignee: *See*—
Engler, Max.
Frehse, Walter C.
Schaffel, Gerson S.

George, Thomas W.: *See*—
La Torre, Richard R., and George.

Gerity-Michigan Corporation, assignee: *See*—
Kinker, Clarence C., and Murtagh.

Gero, Adelard J., Jr., Taftville, Conn. Tailless convertible airplane and roadmobile. 2,609,167, Sept. 2.

Gerth, John H., Winston-Salem, N. C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Test set for measuring the angle represented by synchro voltages. 2,609,435, Sept. 2.

Geyer, Howard M., and H. Carson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Two-speed engine cooling fan. 2,609,054, Sept. 2.

Gibson, Robert C., Birmingham, assignor to Parker Rust Proof Company, Detroit, Mich. Method and material for producing coatings on metal. 2,609,308, Sept. 2.

Gilson, Warren E., Madison, assignor to The Burdick Corporation, Milton, Wis. Muscle stimulator. 2,609,499, Sept. 2.

Glawe, Adolph A., Green Bay, Wis. Water heater. 2,608,957, Sept. 2.

Gleason Works, assignee: *See*—
Wildhaber, Ernest.

Globe Industries, Inc., assignee: *See*—
Stein, Robert A., and Wasserman.

Godshall, Nicholas G., and R. L. Marks, assignors to W. W. Moyer Company, Ephrata, Pa. Sewing machine table motor mount. 2,609,262, Sept. 2.

Goff, Harold W., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Perforating recorder signaling device. 2,609,433, Sept. 2.

Goldberg, David, assignor to Schreiber & Goldberg, New York, N. Y. Fabric edge-folding and pressing machine. 2,609,129, Sept. 2.

Golding, Norman S., assignor to State College of Washington Research Foundation, Pullman, Wash. Resazurin test for milk. 2,609,275, Sept. 2.

Goldman, Joseph, Highland Park, N. J., assignor, by mesne assignments, to Barnhardt Manufacturing Company, Charlotte, N. C. Cylindrical absorptive fibrous body and the manufacture thereof. 2,608,901, Sept. 2.

Goldsby, Arthur F., and F. L., Chicago, Ill.; said A. F. Goldsby, assignor to said F. L. Goldsby. Seed planter with electrically vibrating feed trough. 2,609,123, Sept. 2.

Goldsby, Fred L.: *See*—
Goldsby, Arthur F., and F. L.

Goldsmith, Aaron, Los Angeles, Calif. Automatic resetting overload switch. 2,609,465, Sept. 2.

Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Electrical recording in colors. 2,609,440, Sept. 2.

Goldstein, Herman B., Cranston, and S. T. Clary, Coventry, R. I., assignors to Sun Chemical Corporation, Long Island City, N. Y. Amido-amide derivatives of oxalic acid and preparing the same. 2,609,380, Sept. 2.

Goldstein, Herman B., Cranston, and S. T. Clary, Coventry, R. I., assignors to Sun Chemical Corporation, Long Island City, N. Y. Amido-amide derivatives of dibasic acids and preparing the same. 2,609,381, Sept. 2.

Golf Unlimited, Inc., assignee: *See*—
Wagner, Curtis R.

Goodman Manufacturing Company, assignee: *See*—
Beck, William R.

Goodrich, B. F., Company, The, assignee: *See*—
Krotz, Alvin S.

Gordon, Alan M., Madison, N. J. Hypnosis assisting device. 2,608,969, Sept. 2.

Graaff, Gerald O., Ellensburg, Wash. Machine for handling sugar beets, potatoes, and the like. 2,608,815, Sept. 2.

Graef, Robert P., Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency discriminator. 2,609,447, Sept. 2.

Graham, Thomas K., and C. P. Etterer, Great Falls, Mont., assignors to Anaconda Copper Mining Company, New York, N. Y. Apparatus for sorting heavy bars. 2,609,095, Sept. 2.

Granberry, Edgar H., Shawmut, Ala., assignor to West Point Manufacturing Company, West Point, Ga. Spindle testing dynamometer. 2,608,858, Sept. 2.

Gravos, Albert H., and P. J. Ivy, Spokane, Wash. Refuse can support. 2,609,103, Sept. 2.

Gray, Basil, and G. S. Cleghorn, assignors to English Steel Corporation Limited, Vicars Works, Sheffield, England. Bar feeder. 2,609,107, Sept. 2.

Gray, Robert B., assignor to American Meter Company, Erie, Pa. Adjustment device. 2,608,873, Sept. 2.

Gray, Russell D., Jr., Haworth, and W. A. Paecht, West Caldwell, N. J., assignors to Curtiss-Wright Corporation. Electrodeposition of cadmium-tin alloy. 2,609,338, Sept. 2.

Greenbaum, Arthur, Revere, assignor to American Biltrite Rubber Co. Inc., Stoughton, Mass. Trimming machine. 2,609,046, Sept. 2.

Greene, Benjamin N.: *See*—
Greene, Samuel L., and B. N.

Greene, Claude E., Sidney, Ohio, assignor to The Monarch Machine Tool Company. Electric control system. 2,609,524, Sept. 2.

Greene, Claude E., and R. B. Lesher, Sidney, Ohio, assignors to The Monarch Machine Tool Company. Pattern tracer assembly. 2,608,896, Sept. 2.

Greene, Samuel L., Waterbury, Conn., and B. N. Greene, Miami Beach, Fla. Table cover and tray. 2,608,842, Sept. 2.

Greenspan, Frank P., Buffalo, and D. G. MacKellar, Kenmore, assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Stabilization of peracids with dipicolinic acid. 2,609,391, Sept. 2.

Gresham, William F., Wilmington, and M. A. Kubico, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Primary alcohol composition. 2,609,397, Sept. 2.

Griffin, Edward, assignee: *See*—
Troop, Martin.

Griffith, Henry L., Eclectic, Ala. Drill guide for door lock recesses. 2,609,021, Sept. 2.

Griswold, Donald G., Alhambra, Calif. Liquid separation apparatus. 2,609,099, Sept. 2.

Grubb, Gunnar A., Stockholm, and P. A. Backteman, Tulca, assignors to Aktiebolaget Elektrolux, Stockholm, Sweden. Multiple temperature household refrigerator. 2,608,835, Sept. 2.

Grumbine, Arthur W.: *See*—
Umberger, Jacob Q., and Grumbine.

Gruper, Frank: *See*—
Asmussen, Jes, and Gruper.

Guaranty Investment Corporation, Limited, assignee: *See*—
Udy, Marvin J.

Gubbins, Charles H., assignor to Wolf Electric Tools Limited, London, England. Switch actuator for portable hand tools. 2,609,468, Sept. 2.

Guhlin, Kjall G., and N. G. Guhlin, Houston, Tex. Level wind reel. 2,609,161, Sept. 2.

Guhlin, Nils G.: *See*—
Guhlin, Kjall G., and N. G.

Guiberson Corporation, The, assignee: *See*—
Taylor, Raymond G., Jr., and Losey.

Gulf Research & Development Company, assignee: *See*—
Easley, Joseph C., and Kellner.

Gundrum, Laetta J.: *See*—
Wolff, Ivan A., Davis, Cluskey, and Gundrum.

Gustafsson, Gustaf E.: *See*—
Vigren, Sten D., and Gustafsson.

Guthrie, George B., Jr., Pasadena, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Pulse width discriminator circuit. 2,609,501, Sept. 2.

Haase, Kurt, Melkendorf, near Kulmbach, and W. Ostwald, Heppenheim, assignors to Sfiderwerke G. m. b. H., Kulmbach, Germany. Arrangement for and method of transferring heat and cold from and to machine parts. 2,608,963, Sent. 2.

Haberstump, Alfred H., assignor to American Metal Products Company, Detroit, Mich. Seat track of the vertical adjustable type for automotive vehicles. 2,609,029, Sept. 2.

Hacklander, Hans, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Apparatus for sealing dielectric materials. 2,609,481, Sept. 2.

Haefliger, Johann, assignor to The Warner & Swasey Company, Cleveland, Ohio. Twisted selvage cutter. 2,609,009, Sept. 2.

Hager, Benjamin F., Charlotte, N. C. Folding extensible table. 2,609,263, Sept. 2.

Hagquist, Arne, Oslo, Norway. Electromagnetic shuttle for sewing machines. 2,608,945, Sept. 2.

Hahn, Alfred Z., Bound Brook, N. J., assignor to Research Corporation, New York, N. Y. Rotary electrical precipitator. 2,609,061, Sept. 2.

Hale, Ronald F.: *See*—
Bywater, James E., and Hale.

Hall, George E., Flint, Mich. Gauge for cone tipped tools. 2,608,767, Sept. 2.

Hall, John K., Miami, Fla. Fishhook releaser. 2,608,785, Sept. 2.

Hall, Oliver C., Fair Lawn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Rotary out-trunk switching arrangement. 2,609,456, Sept 2.

Haller, John, Northville, Mich. Compound hydraulic motor with telescoping pistons. 2,608,826, Sept. 2.

Hallmark, Gordon, assignee: *See*—
Adams, William B.

Hallock, Robert L., Larchmont, N. Y. Adjustable shelf. 2,609,267, Sept. 2.

Hamacher, Edward A., assignor to Philips Laboratories, Inc., Irvington on Hudson, N. Y. System for recording X-ray diffraction data. 2,609,144, Sept. 2.

Hamilton Manufacturing Company, assignee: *See*—
O'Neil, Charles S.

Hancock, Hilmer E., Dent, Minn. Stabilizer for tractor power lifts. 2,609,215, Sept. 2.

Hansen, Knut L., Antioch, Calif. Attachment for bathtubs. 2,608,693, Sept. 2.

Hansen, Theodore A., Park Ridge, assignor to Teletype Corporation, Chicago, Ill. Multiplex telegraph system utilizing electronic distributors. 2,609,451, Sept. 2

Hansen, Theodore A., Park Ridge assignor to Teletype Corporation, Chicago, Ill. Multiplex telegraph system employing electronic distributor. 2,609,452, Sept. 2.

Hansford, Reginald F., Bognor Regis, England, assignor to The Sperry Corporation, Great Neck, N. Y. Route-finding device. 2,608,770, Sept. 2.

Hanson, Carl V.: *See*—
Drakeley, George T., and Hanson.

Hapman, Hannah J., assignee: *See*—
Hapman, Henry W.

Hapman, Henry W., assignor of forty per cent to H. J. Hapman, Detroit, Mich. Flight conveyer. 2,609,081, Sept. 2.

Hapman, Henry W., Detroit, Mich., assignor, by mesne assignments, of forty per cent to H. J. Hapman. Pressurized conveyer for powdered material. 2,609,250, Sept. 2.

Hardgrove, Ralph M., Westfield, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y. Mobile steam generator. 2,608,938, Sept. 2.

Harmon, Gregory J., assignor, by mesne assignments, to Padevco, Inc., Washington, D. C. Multiplex frequency modulation system. 2,609,535, Sept. 2.

Harney, Bernard C., assignor to Lipe-Rollway Corporation, Syracuse, N. Y. Bar feed vibration dampener. 2,608,746, Sept. 2.

Harper, Robert J., assignee: *See*—
Ivins, Barbara, and Peltz.

Harris, George M., Macon, assignor of one-half to H. A. Cook, Atlanta, Ga. Composition of matter for making artificial lumber. 2,609,303, Sept. 2.

Harris, Sterling G., Beaufort, assignor to The Blue Channel Corporation, Port Royal, S. C. Recovering oysters. 2,608,716, Sept. 2.

Harris, Thomas, Warwick Neck, R. I. Spindle for spinning and twisting frames. 2,609,254, Sept. 2.

Hartford National Bank and Trust Company, as trustee, assignee: *See*—
Allink, Roelof J. H., Dippel, and Houtman.
Bilgel, Roelof D.
Coeterier, Frederick.
Klopping, Carel P.
Reijnst, Maximilien F., and de Beer.
Siezen, Gerrit J.
Starre, Gerrit, and van den Berge.
Van Weel, Adelbert.

Hartough, Howard D., Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Preparation of N-substituted aminomethylsulfonic acids. 2,609,374, Sept. 2.

Hartstra, Lenze: *See*—
Kool, Cornelis M. H., van Westen, and Hartstra.

Hartzell Propeller Fan Company, assignee: *See*—
Monroe, Homer K.

Harvey, Merlin P.: *See*—
Ladd, Elbert C., and Harvey.

Hass, Henry B., Forest Hills, N. Y., and L. G. Alexander, Norman, Okla., assignors to Purdue Research Foundation, La Fayette, Ind. Nitration of saturated aliphatic hydrocarbons. 2,609,401, Sept. 2.

Hassan, Fauthal A., assignee: *See*—
Hassan, Joseph A.

Hassan, Joseph A., assignor of one-half to Fauthal A. Hassan, Quincy, Mass. Electric actuating device. 2,609,463, Sept. 2.

Haug, John S., Philadelphia, and P. W. Janeway, Jr., Media, assignors to United Engineers & Constructors Inc., Philadelphia, Pa. Apparatus and method for handling of liquefied normally gaseous materials. 2,609,282. Sept. 2.

Haupt, Ferdinand R., St. Paul, Minn. Adjustable handle for toothbrushes. 2,609,251, Sept. 2.

Haussler, Ernest E., deceased, Clifton, N. J.; E. K. Haussler, administratrix of said E. E. Haussler. Cable holder with guide slots. 2,608,891, Sept. 2.

Haussler, Elsie K., administratrix: *See*—
Haussler, Ernest E.

Hayes, George, Moortown, Leeds, assignor to G. H. Patents Limited, Leeds, and The Equipment and Engineering Co., Limited, London, England. Driving gear for route or destination indicators. 2,608,882, Sept. 2.

Hays, Robert F., Jr.: *See*—
Kellogg, Spencer R., II, Hayes, and Barkalow.

Hazeltine Research, Inc., assignee: *See*—
Loughlin, Bernard D.
Wheeler, Harold A.

Hazelton, Charles M., Seattle, Wash. Grate bar. 2,608,958, Sept. 2.

Hebard, Glen G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Surge absorbing chamber. 2,609,001, Sept. 2.

Hecht, George, Astoria, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selecting and lockout circuit. 2,609,454, Sept. 2.

Heikes, Norman L., San Pablo, assignor to W. K. Rosenberry, Oakland, doing business as Berkeley Scientific Company, Richmond, Calif. Mixing valve. 2,609,146, Sept. 2.

Heinen, Joseph, Long Beach, Calif. Plug valve. 2,609,174, Sept. 2.

Heinzelman, Earl E., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Molding machine. 2,608,721, Sept. 2.

Heise, George W., Rocky River, and R. P. Fox, Cleveland, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Deferred action type gas depolarized dry cell having prolonged shelf life. 2,609,408, Sept. 2.

Helsley, Frank H., Los Angeles, Calif. Wind deflector for automobile rear seats. 2,608,926, Sept. 2.

Hemphill Company, assignee: *See*—
Brown, Charles F.

Henderson, Fred R., Kansas City, Mo. Crankshaft main journal grinder. 2,608,806. Sept. 2.

Henderson, Robert D., Cincinnati, Ohio. Axially compressing type tire removing apparatus. 2,609,038, Sept. 2.

Henderson, Robert D., Cincinnati, Ohio. Axially compressing type tire dismounting apparatus. 2,609,039, Sept. 2.

Henle, Joseph, North Bergen, N. J. Shuttle loading rack. 2,609,102, Sept. 2.

Hennenberger, Karl H., Albersbach-on-the-Odenwald, assignor to Huttenchemie G. m. b. H., Mannheim-Rheinau, Germany. Fertilizers. 2,609,287, Sept. 2.

Hensel, H. Struve, assignee: *See*—
Fennelly, Joseph C.

Her Majesty the Queen in the right of Canada, as represented by the Minister of Mines and Technical Surveys, assignee: *See*—
Meier, Jerzy W.

Herbert, Charles C., assignor to Livestock Sprayer Mfg. Co., San Jose, Calif. Spraying system. 2,608,952, Sept. 2.

Hersey, Herbert S., assignor to The C. O. Bartlett & Snow Co., Cleveland, Ohio. Self-aligning belt idler. 2,609,084, Sept. 2.

Hess, Charles, Yonkers, assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Folding machine. 2,608,917, Sept. 2.

Hess, Werner G., Dearborn, assignor to The Murray Corporation of America, Detroit, Mich. Reinforced central tunnel for X-member of chassis frame. 2,609,217, Sept. 2.

Hester, Frank A., assignor to Faximile, Inc., New York, N. Y. Recorder amplifier with grounded positive and balanced input circuit. 2,609,442, Sept. 2.

Hewitt, Frank P.: *See*—
Medill, Edward C., and Hewitt.

Hickin, Robert J., assignor to The Ohio Boxboard Company, Rittman, Ohio. Carton folding mechanism. 2,608,916, Sept. 2.

Hickman, Kenneth C. D., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Fractional distillation process and apparatus. 2,609,335, Sept. 2.

Hickok Manufacturing Co. Inc., assignee: *See*—
Meeker, William H.

Hildebrand, William L., assignee: *See*—
Jackson, Harold F.

Hildebrandt, Alexander B.: *See*—
Boucher, Frank G., and Hildebrandt.

Hill, Bertram C., Washington, D. C., and R. R. Stone, United States Navy. Electrical testing apparatus. 2,609,509, Sept. 2.

Hill, Robert F., assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Flap positioning control system. 2,609,165, Sept. 2.

Himelreich, Louis E., assignor to H. J. Scheirich Co., Louisville, Ky. Furniture. 2,609,266, Sept. 2.

Hogan, Horace C., Jr., Charlestown, R. I. Hydraulic control valve with automatic follow-up. 2,608,954, Sept. 2.

Holcomb, Arthur L., Tarzana, and M. A. Leavitt, Concord, Calif., assignors to Western Electric Company, Incorporated, New York, N. Y. High-speed contactor. 2,609,461, Sept. 2.

Holley, Lloyd E., Harrisburg, Pa. Mirrored cabinet and means to illuminate an object in front thereof. 2,609,485, Sept. 2.

Hollywood, John M., Washington, D. C., assignor to the United States of America as represented by the Secretary of War. Automatic tuning control. 2,609,490, Sept. 2.

Holmes, Bradford B., New York, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Demand valve control mechanism. 2,608,971, Sept. 2.

Hoover, Judson R., Elmira, N. Y. Boat reversing mechanism for outboard motors. 2,608,946, Sept. 2.

Hotpoint Inc., assignee: *See*—
Ackemann, Harold E.
Sandin, Ray C., and Steinbach.

Houdaille-Hershey Corporation, assignee: *See*—
Sandberg, Ray A.

Houtman, Harke J.: *See*—
Allink, Roelof J. H., Dippel and Houtman.

Howard, Arthur C., Upminster, assignor of one-half to Rotary Hoes Limited, East Horndon, England. Travel-speed reduction gearing for tractors. 2,608,877, Sept. 2.

Howard, Joseph O., Chicago, Ill. Hinge structure. 2,608,714, Sept. 2.

Howland, Eugene H., Grand Island, and R. G. Tessmer, Tonawanda, assignors to Arnold Jacobowitz, Buffalo, N. Y. Filter including automatic reconditioning device. 2,609,101, Sept. 2.

Howsam, Hilyard C., Chicago, Ill. Reel. 2,609,162, Sept. 2.

Hoy, Thomas J., Newark, N. J. Valve actuating apparatus for actuating valves of steam engines, locomotives, or the like. 2,608,955, Sept. 2.

Hoy, Thomas J., Newark, N. J. Piston ring. 2,609,257, Sept. 2.

Hubbell, Adrian O.: *See*—
Nagel, Edward H., and Hubbell.

Huffman, Levi D., assignor to Service Caster and Truck Corporation, Albion, Mich. Fork structure for lift trucks and hoists. 2,609,113, Sept. 2.

Hughes, George E., Kansas City, Mo. Automobile jack. 2,609,177, Sept. 2.

Hull, Joseph F., Neptune, N. J. Magnetron. 2,609,522, Sept. 2.

Hulstede, George E., Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Indicating device. 2,609,422, Sept. 2.

Hunsaker, Eugene L., Manhattan Beach, Calif., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Contrarotating turbojet engine having independent bearing supports for each turbocompressor. 2,608,821, Sept. 2.

Hunter, George D., Rocky Mount, N. C. Control valve for power transmissions. 2,608,994, Sept. 2.

Huron Portland Cement Company, assignee: *See*—
Schemm, Henry R.

Hutchings, Claude B., Medical Lake, Wash. Automatically releasable flank strap fastener. 2,608,812, Sept. 2.

Huttenchemie G. m. b. H., assignee: *See*—
Hennenberger, Karl H.

Hutton, Philip C., assignor to Silentbloc Limited, London, England. Assembling resilient bearings. 2,608,751, Sept. 2.

Hydrocarbon Research, Inc., assignee: *See*—
Benedict, Manson.
Kalbach, John C.

I-T-E Circuit Breaker Company, assignee: *See*—
Conangla, Amado.

Idle, James G., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dishwashing apparatus having a propeller and a fluid deflecting baffle associated therewith. 2,608,983, Sept. 2.

Ilford Limited, assignee: *See*—
Waller, Cecil, and Dickinson.

Illinois Prestcrete Co., assignee: *See*—
Mollendorf, Jean D.

Illinois Tool Works, assignee: *See*—
Poupitch, Ougljesa J.

Imperial Chemical Industries Limited, assignee: *See*—
Davies, Phineas, Reynolds, Coats, and Taylor.
Taylor, Arthur W. C., and Ackroyd.

Inhoffen, Hans H., and H. Pommer, Braunschweig, Germany. Compounds with the carbon skeleton of beta-carotene and the manufacture thereof. 2,609,396, Sept. 2.

Institute of Textile Technology, assignee: *See*—
Couper, Monroe.

Interior, United States of America as represented by the Secretary of the, assignee: *See*—
Culling, Merritt A.
Steen, Kenneth R.

International Business Machines Corporation, assignee: *See*—
Roth, Robert I.

International Cigar Machinery Company, assignee: *See*—
Ferenci, Lester.

Ionics, Incorporated, assignee: *See*—
Juda, Walter.

Irvine, Warren L.: *See*—
Daves, Bruner R., and Irvine.

Isenberg, Alexander H., Woodside, Calif. Apparatus for making thermal insulated pipe. 2,608,754, Sept. 2.

Ivins, Barbara, New York, and G. M. Peltz, Flushing, N. Y., assignors to W. D. Teague, Annandale, N. J., R. J. Harper, Scarsdale, N. Y., and C. S. Myers, Altadena, Calif., as co-partners, doing business as Walter Dorwin Teague, New York, N. Y. Machine for preparation of relief maps. 2,608,907, Sept. 2.

Ivy, Philip J.: *See*—
Gravos, Albert H., and Ivy.

Jack & Heintz Precision Industries, Inc., assignee: *See*—
Buhl, Walter T.
Jenny, Albert C.

Jackson, Elwood F.: *See*—
Basdekis, Costas H., and Jackson.

Jackson, Harold F., assignor of one-third to W. L. Hildebrand and one-third to R. G. Whitehead, Long Beach, Calif. Suction apparatus for cleaning rooms. 2,609,190, Sept. 2.

Jackson, Otto V., Geauga Lake, Ohio. Dishwashing machine. 2,608,981, Sept. 2.

Jacobowitz, Arnold, assignee: *See*—
Howland, Eugene H., and Tessmer.

Jacobs, Robert B., Rochester, N. Y., assignor by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Method and apparatus for measuring tightness of vessels. 2,608,855, Sept. 2.

Jacobsen, Andrew B., Somerville, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electrical measuring system. 2,609,533, Sept. 2.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Hoist control. 2,609,181, Sept. 2.

Janeway, Price W., Jr.: *See*—
Haug, John S., and Janeway.

Jennings, Richard V., Pickney, Mich. Snow or water ski device. 2,609,210, Sept. 2.

Jenny, Albert C., assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Hydraulic starter. 2,608,966, Sept. 2.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Comb guard for electric shavers. 2,608,756, Sept. 2.

Jofeh, Lionel: *See*—
Bedford, Leslie H., and Jofeh.

Johns-Manville Corporation, assignee: *See*—
Farrell, Edward A.
Modigliani, Piero.
Zettel, Joseph H.

Johnson, Carl E., Westchester, assignor to National Aluminate Corporation, Chicago, Ill. Prevention of foaming in steam generation. 2,609,344, Sept. 2.

Jones, Alexander H., Jackson, Miss. Invalid's footrest. 2,609,035, Sept. 2.

Jones, Fred A. B., Coral Gables, Fla. Cigarette lighter. 2,608,848, Sept. 2.

Jones, Harry, Rochdale, and J. K. Aiken, Sale, assignors to The Geigy Company Limited, Manchester, England. Plasticized cellulose triacetate. 2,609,304, Sept. 2.

Jonker, Frits, Delft, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Radial compressor with auxiliary bladewheel. 2,609,140, Sept. 2.

Joseph, Jay W., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Paper-cutting knife. 2,608,757, Sept. 2.

Joseph, Raymond J., assignor to E. Shipton & Company Limited, Ferndown, Northwood Hills, England. Polarized relay. 2,609,462, Sept. 2.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Ornamental display device. 2,608,779, Sept. 2.

Joy Manufacturing Company, assignee: *See*—
Silver, Harold F., and Steele.
Joy, Joseph F.

Juda, Walter, assignor, by mesne assignments to Ionics, Incorporated, Cambridge, Mass. Purifying water. 2,609,341, Sept. 2.

Kaiser, Henry R., Pittsburgh, Pa. Timer attachment for telephones. 2,609,045, Sept. 2.

Kalbach, John C., assignor to Hydrocarbon Research, Inc., New York, N. Y. Conversion of carbonaceous materials into a fuel gas. 2,609,283, Sept. 2.

Kantzer, Basil P., Pasadena, assignor to Union Oil Company of California, Los Angeles, Calif. Treatment of well bores. 2,609,052, Sept. 2.

Karl, Josef S., Athens, Ga. Yarn carrier with takeup device for hosiery machines. 2,608,844, Sept. 2.

Kass, Samuel M., Philadelphia, Pa. Leak closure. 2,609,003, Sept. 2.

Kaufmann, Stephen: *See*—
Rosenkranz, George, Kaufmann, and Romo.

Kay, Jerry W., North Plainfield, N. J., assignor to Union Carbide and Carbon Corporation. Reducing weak spots in calendered film. 2,608,717, Sept. 2.

Kearby, Kenneth K., Cranford, N. J. Absorbent-covered furnace. 2,609,060, Sept. 2.

Kearful, Godfrey G., J. J. Verbrugge, and R. A. Malone, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Lifting jack. 2,609,178, Sept. 2.

Keizer, Eugene O., Princeton, N. J., assignor to Radio Corporation of America. Combination radio television receiving system. 2,609,441, Sept. 2.

Kellner, Hugh L.: *See*—
Easly, Joseph C., and Kellner.

Kellogg, Spencer, II, Glen Head, R. F. Hays, Jr., Syosset, and C. E. Barkalow, Huntington, N. Y., assignors to The Sperry Corporation. Control system for gyro verticals. 2,608,867, Sept. 2.

Kelsey-Hayes Wheel Company, assignee: *See*—
Ross, Elmer R.

Kennedy, John J., Richmond Hill, N. Y. Rack with drip catcher. 2,608,843, Sept. 2.

Kenney, Clarence E., and C. D. Wilson, West Allis, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Steam turbine. 2,609,255, Sept. 2.

Kent, Nelson H.: *See*—
Shelley, Thomas, and Kent.

Kerr, Ralph W.: *See*—
Pigman, William W., Kerr, and Schink.

Killius, William, Altadena, Calif. Clamp having a swiveled traction connection. 2,608,730, Sept. 2.

Kimpton, William H., Wilmslow, England, assignor to Celanese Corporation of America. Yarn-winding machinery. 2,609,156, Sept. 2.

King, James F., Jr., assignor to The Bahnson Company, Winston-Salem, N. C. Apparatus for cleaning filter screens. 2,609,064, Sept. 2.

King, John A., assignee: *See*—
Buchan, James.

King, Robert C., assignee: *See*—
Noel, William A.

Kingston, Jonas A., Tilehurst near Reading, assignor to Gascoignes (Reading) Ltd., Reading, England. Milking machine. 2,608,951, Sept. 2.

Kinker, Clarence C., Manitou Beach, Mich., and J. J. Murtagh, Toledo, assignors to Gerity-Michigan Corporation, Adrian, Mich. Burnishing machine. 2,608,803, Sept. 2.

Kirby, George W., Yonkers, assignor to Standard Brands Incorporated, New York, N. Y. Flavoring material for baked farinaceous goods and manufacturing baked farinaceous goods. 2,609,298, Sept. 2.

Kirchner, Karl F., Bloomfield, N. J. Resonant circuits. 2,609,491, Sept. 2.

Kirchner, Karl F., Bloomfield, N. J. Inductance device. 2,609,531, Sept. 2.

Kirk, Douglas, Hudson, Ohio, assignor to The Quaker Oats Company, Chicago, Ill. Apparatus for inserting closures in containers. 2,608,918, Sept. 2.

Kirkham, Hall, Cleveland Heights, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y. Control valve. 2,608,824, Sept. 2.

Kirkwood, Ersel F., Salem, Oreg. Ring sizing tool. 2,608,748, Sept. 2.

Kittle, Irene T.: *See*—
Kittle, Levi O. and I. T.

Kittle, Levi O. and I. T., Los Angeles, Calif. Hair dyeing apparatus. 2,608,976, Sept. 2.

Kleiber, Carl E., Irvington, N. J., assignor to Standard Oil Development Company. Apparatus for handling finely divided solid materials. 2,609,248, Sept. 2.

Klockner-Humboldt-Deutz Aktiengesellschaft, assignee: *See*—
Kloss, Richard, Engels, and Combüchen.

Klöpping, Carel P., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electron discharge tube having a disk-shaped cathode. 2,609,518, Sept. 2.

Kloss, Richard, Cologne-Buchforst, E. G. Engels, Cologne-Niehl, and P. Combüchen, Bergisch-Gladbach, assignors to Klockner-Humboldt-Deutz Aktiengesellschaft, Cologne, Germany. Working cylinder for air-cooled combustion engines. 2,608,962, Sept. 2.

Knapp, Harry M., Scotch Plains, N. J., and F. A. Zupa, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Shock mount for relays. 2,609,171, Sept. 2.

Knapp, Richard P., Toledo, Ohio, assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Portable marine foundation. 2,608,829, Sept. 2.

Knapp, Robert L., and D. L. Schoene, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Preparation of lower fatty acid esters of geraniol, nerol, and linaloöl. 2,609,388, Sept. 2.

Knipper, Frank P., Rochester, N. Y. Combined thermometer and stirring rod. 2,608,861, Sept. 2.

Koehler Manufacturing Company, assignee: *See*—
Wheat, Grant, and Davis.

Koerner, Ralph F., Chicago, Ill. Golf putting game device. 2,609,199, Sept. 2.

Kolachov, Paul J., and W. C. Schneider, Louisville, assignors to Joseph E. Seagram & Sons, Inc., Shively, Ky. Continuous process for penicillin production. 2,609,327, Sept. 2.

Kolb, Philip C., Rochester, and E. A. Byrne, New York, N. Y. Outer garment. 2,608,690, Sept. 2.

Kollsman, Paul, New York, N. Y. Three-color writing implement. 2,608,953, Sept. 2.

Kollsman, Paul, New York, N. Y. Fluid friction reducer. 2,609,139, Sept. 2.

Kool, Cornelis M. H., Haren, and H. A. van Westen, and L. Hartstra, Amsterdam, assignors to Naamlooze Vennootschap W. A. Scholten's Chemische Fabrieken, Groninger, Netherlands. Hydrolytic hydrogenation of carbohydrates in an acid medium. 2,609,399, Sept. 2.

Korber, Eugene, Wallaceburg, Ontario, Canada, assignor to The Quaker Oats Company, Chicago, Ill. Machine for bagging cereals or grain. 2,609,134, Sept. 2.

Korndorffer Rudolf W. V. H.: *See*—
Tat, Willem J., and Korndorffer.

Koroly, Joseph E., assignor to Rohm & Haas Company, Philadelphia, Pa. Preparation of thermoset resins. 2,609,357, Sept. 2.

Koster's Bakery Co., assignee: *See*—
Stern, Benjamin.

Kramer, Daniel, Willowick, Ohio. Means used in conjunction with a motion picture camera for the photographic recording of a date on a film. 2,608,919, Sept. 2.

Kroeger, Ellwyn, Le Claire, Iowa. Tree support. 2,609,169, Sept. 2.

Krogue, Eldon L., Seattle, Wash. Fish lure. 2,608,787, Sept. 2.

Kropa, Edward L.: *See*—
Pfann, Harry F., and Kropa.

Krotz, Alvin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Spring. 2,609,194, Sept. 2.

Krupin, Philip, Orange, N. J. Doorknob with bottle opener. 2,608,889, Sept. 2.

Kruse, Theodore, assignee: *See*—
Bula, Frank J.

Kublco, Michael A.: *See*—
Gresham, William F., and Kublco.

Kunz, Friedrich, Lucerne, Switzerland. Sliding abutment type rotary internal-combustion engine. 2,608,960, Sept. 2.

Kunz, William R., Springfield, Mass., assignor to the United States of America as represented by the Secretary of War. Cartridge belt assembly tool. 2,608,900, Sept. 2.

Kuring, William A., La Crescenta, and B. A. Erickson, Glendale, Calif. Combination weighing and mixing machine. 2,609,172, Sept. 2.

Kvalnes, Hamline M., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparing monomeric stable methylolphenol compositions. 2,609,352, Sept. 2.

Laboratory Equipment Corporation, assignee: *See*—
Schultz, Carl E.

La Cesa, Joseph, Chicago, Ill. Coil winding apparatus. 2,609,163, Sept. 2.

Ladd, Elbert C., and M. P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Reaction products of nuclearly polyhalogenated quinonoid compounds and trialkyl phosphites and making same. 2,609,376, Sept. 2.

Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Olefin-DDT reaction products. 2,609,402, Sept. 2.

Lahaie, Fred J., assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn. Knuckle joint for tie boring machines. 2,608,840, Sept. 2.

Laird, John, & Son, Limited, assignee: *See*—
Buchan, James.

Laird, Royal B., Merced, Calif. Dual purpose ground working implement. 2,608,772, Sept. 2.

Lamb, Harold T., Newcastle-on-Tyne, England. Mixing and kneading machine. 2,608,941, Sept. 2.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Composite photographic product comprising a photosensitive element and a container carrying a liquid for processing said element. 2,609,296, Sept. 2.

Land-O-Tackle, Inc., assignee: *See*—
Lando, Sebastiano.

Lando, Sebastiano, assignor to Land-O-Tackle, Inc., Chicago, Ill. Signaling device. 2,608,784, Sept. 2.

Lane, James A.: *See*—
Pyle, Cyrus, and Lane.

La Paglia, Anthony, New York, N. Y. Harmonica. 2,608,898, Sept. 2.

Lapsley, Robert, Berrien, assignor to Clark Equipment Company, Buchanan, Mich. Transmission. 2,608,885, Sept. 2.

Laramy, Richard C., Muskegon Heights, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Pot type oil burner. 2,609,041, Sept. 2.

Larsen, Carl H., Brooklyn, N. Y., assignor to American Machine & Foundry Company. Self-leveling, storing, and dispensing apparatus. 2,609,265, Sept. 2.

Larson, Carl W., assignor to Patent Management, Incorporated, Minneapolis, Minn. Adjustable friction drive. 2,608,872, Sept. 2.

Larsson, Åke V.: *See*—
Sjöström, Charles G. E., and Larsson.

Lasure, Esther P.: *See*—
Gaver, Kenneth M., Lasure, and Thomas.

Lasure, Esther P.: *See*—
Gaver, Kenneth M., Lasure, and Tieszen.

La Torre, Richard R., and T. W. George, Washington, D. C. Mount for tensile testing specimens of textile material. 2,608,857, Sept. 2.

Lauritsen, Charles C., Pasadena, Calif., assignor to the United States of America as represented by the Secretary of the Navy. Rocket. 2,608,931, Sept. 2.

Lauterbur, Ray A.: *See*—
Foster, Theodore D., and Lauterbur.

Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Base electrodes for semiconductor devices. 2,609,428, Sept. 2.

Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Semiconduction electrode construction. 2,609,429, Sept. 2.

Lawrence Products Company, Inc., assignee: *See*—
St. Jean, Paul J., and Pruitt.

Lawson, Gustaf R.: *See*—
Benander, George B., and Lawson.

Leach, John M., Port Washington, N. Y. Hook conveyer. 2,609,082, Sept. 2.

Leach, John M., Port Washington, N. Y. Material transfer for conveyers. 2,609,083, Sept. 2.

Leach, Kant F., Englewood, Colo. Multiple coat hanger support. 2,609,104, Sept. 2.

Leavitt, Minard A.: *See*—
Holcomb, Arthur L., and Leavitt.

Lee, John G., Farmington, assignor to United Aircraft Corporation, East Hartford, Conn. Shrouded tail rotor. 2,609,053, Sept. 2.

Leff, Samuel, Brooklyn, N. Y. Key holder. 2,608,851, Sept. 2.

Leibgeber, George T., Dayton, Ohio. Throttle and speed controls for motors. 2,609,074, Sept. 2.

Leland, Pardon K., assignor to Elgel Inc., La Salle, Ill. Beverage cooler. 2,608,837, Sept. 2.

Lembke, John, Wilder, assignor to Olson Manufacturing Company, Boise, Idaho. Flexible beater for flailing machines. 2,608,816, Sept. 2.

Leonard, Joseph, Allentown, Pa., assignor to Mona Lisa Foundations, Inc. Tapering panel construction for foundation garments. 2,608,688, Sept. 2.

Lepicard, Etienne M. J., Neuilly-sur-Seine, France. Compressor. 2,608,932, Sept. 2.

Lermont, Basil, assignor, by mesne assignments, to Eastern Metal Research Co., Inc., New York, N. Y. Coil spring and coil spring assembly, including the support for such springs. 2,609,192, Sept. 2.

Le Roy, Norman C., Miami, Fla. Protective net attachment for crib beds. 2,608,696, Sept. 2.

Lesher, Robert B.: *See*—
Greene, Claude E., and Lesher.

Lesti, Arnold, Nutley, N. J., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y. Pulse code translator. 2,609,529, Sept. 2.

Leuty, Sidney G.: *See*—
Ellison, Thomas, and Leuty.

Levinson, Moses, Yonkers, assignor to N. Levinson, New Rochelle, N. Y. Folding table or the like. 2,609,072, Sept. 2.

Levinson, Nathan, assignee: *See*—
Levinson, Moses.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Babcock, Eugene W.
McLaughlin, Eli H.
Ritter, George F.
Ryan, Joseph D., and Mattimoe.
Sharp, Donald E.

Lieske, George A.: *See*—
McKenney, Henry F., and Lieske.

Lindsey, Frederick W., Baltimore, Md. Food package. 2,609,301, Sept. 2.

Link-Belt Company, assignee: *See*—
Lotz, Charles W.

Lipe-Rollway Corporation, assignee: *See*—
Harney, Bernard C.

Lisi, Cosimo, and U. Casaccia, Turin, Italy. Musical wind instrument. 2,608,899, Sept. 2.

Lisle Corporation, assignee: *See*—
Brooks, Thomas E.

Livestock Sprayer Mfg. Co., assignee: *See*—
Herbert, Charles C.

Locke, Burton H., Framingham, Mass. Antiskid chain and positioning means. 2,609,027, Sept. 2.

Lockheed, Allan H., Los Angeles, Calif. Controllable pitch propeller. 2,609,056, Sept. 2.

Loewe, Paul, Mexico City, Mex. Flexible electric heater. 2,609,479, Sept. 2.

Loftus Engineering Corporation, assignee: *See*—
Francis, Charles B.

Loikema, Jan, Hoogezand, and H. A. van Westen, Amsterdam, assignors to Naamlooze Vennootschap W. A. Scholten's Chemische Fabrieken, Groningen, Netherlands. Hydrogenation of polysaccharides. 2,609,398, Sept. 2.

Lone Star Cement Corporation, assignee: *See*—
Posselt, Ejnar.

Lord, Wilfred, Keighley, England. Letoff device for textile machines. 2,609,006, Sept. 2.

Losey, Thomas B.: *See*—
Taylor, Raymond G., Jr., and Losey.

Lott, William A., Maplewood, ad E. Pribyl, Metuchen, N. J., assignors to E. R. Squibb & Sons, New York, N. Y. Carbamate of 3-ortho-toloxy-1,2-propanediol. 2,609,386, Sept. 2.

Lotz, Charles W., Chicago, Ill., assignor to Link-Belt Company. Method of and apparatus for continuously cleaning and separating minerals of different settling rates. 2,609,098, Sept. 2.

Loughlin, Bernard D., Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Tunable superheterodyne superregenerative receiver. 2,609,492, Sept. 2.

Low, Frank K.: *See*—
Bachelet, Albert E., and Low.

Lowe, Mark W., Connersville, Ind. Apparatus for peeling tomatoes. 2,609,022, Sept. 2.

Lowell Specialty Company, assignee: *See*—
Wisner, Otto.

Lubrizol Corporation, The, assignee: *See*—
Craig, Willis G.

Luchsinger-Caballero, Rodolfo, Madrid, Spain. Replaceable tread tire. 2,609,026, Sept. 2.

Luebben, Ummo F., Omaha, Nebr. Vehicle power transmission system. 2,608,883, Sept. 2.

Lummus Company, The, assignee: *See*—
Bowles, Vernon O., and Schutte.

Lynn, Anthony P., Elmhurst, Ill. Lipstick container. 2,609,093, Sept. 2.

Lynn, John E.: *See*—
Fluck, Linton A., and Lynn.

Lyon, George A., Detroit, Mich. Wheel cover. 2,609,245, Sept. 2.

Lyon, George A., Detroit, Mich. Wheel cover. 2,609,246, Sept. 2.

Lyons, Francis P.: *See*—
Cox, Thomas K., and Lyons.

MacKellar, Donald G.: *See*—
Greenspan, Frank P., and MacKellar.

MacKenzie, Fred T., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Controlling means for power-operated machines. 2,608,702, Sept. 2.

MacLelland, Willis G.: *See*—
Snyder, Clermont J., and MacLelland.

Mallory, Marion, Detroit, Mich. Opposed piston engine. 2,608,964, Sept. 2.

Malone, Ralph A.: *See*—
Kearful, Godfrey G., Verbrugge, and Malone.

Mancia, Henri: *See*—
Mégel, Guillaume E., and Mancia.

Marano, Herbert W., Brooklyn, N. Y., assignor to Wilson Jones Company, Chicago, Ill. Loose leaf paper safe and dispenser. 2,609,219, Sept. 2.

Marasco, Harold E., Swampscott, Mass. Sole press of the turret type. 2,608,703, Sept. 2.

Marathon Corporation, assignee: *See*—
Asmussen, Jes, and Gruper.

Marbelite Company, Inc., The, assignee: *See*—
Diebold, Anton.

Marcell, Howard K., Irvington, N. J. Whistling toy. 2,608,795, Sept. 2.

Marien, Melvin W., St. Louis, Mo., assignor, by mesne assignments, to Ramsey Corporation. Piston packing ring. 2,609,260, Sept. 2.

Marks, Roy L.: *See*—
Godshall, Nicholas G., and Marks.

Markunas, Peter C.: *See*—
Senkus, Murray, and Markunas.

Morris, Constantine H., Springfield, N. J. Hat shaping apparatus. 2,609,128, Sept. 2.

Marshall, Joseph C., Baldwin, and J. J. Connolly, assignors to The Teleregister Corporation, New York, N. Y. Indicator setting mechanism operable by means of character comparisons. 2,609,439, Sept. 2.

Martin, Frank S., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Silicone elastomer golf ball core. 2,609,201, Sept. 2.

Martin, Glenn L., Company, The, assignee: *See*—
Engel, Harry C., Troxell, and Pajak.
Pajak, Theodore P.

Martin, Marvin D., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Injector mechanism. 2,609,500, Sept. 2.

Martino, William J., Garden City, Mich. Compartment comb. 2,608,979, Sept. 2.

Martis, Jerome M.: *See*—
Folmsbee, Clyde H., and Martis.

Massey-Harris Co. Ltd., assignee: *See*—
Brough, James.

Mathieson Chemical Corporation, assignee: *See*—
Boge, Herbert E.

Matter, Albert J., Park Ridge, Ill. Table leveler. 2,608,704, Sept. 2.

Matthews, Adrian M., Bristol, Conn. Sinusoidal potentiometer. 2,609,469, Sept. 2.

Mattimoe, Paul T.: *See*—
Ryan, Joseph D., and Mattimoe.

Mayland, Bertrand J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of hydrocarbon synthesis gas. 2,609,382, Sept. 2.

McBride, Jesse E., Highland Park, and W. G. Boehm, assignors to Palmer-Bee Company, Detroit, Mich. Caterpillar drive chain. 2,609,086, Sept. 2.

McCamy, Robert G., assignor to Cabin Crafts, Inc., Dalton, Ga. Cover for toilet seat lids. 2,608,694, Sept. 2.

McCloy, Graham S., Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Refrigerating apparatus. 2,608,834, Sept. 2.

McCrory, William, Los Angeles, Calif. Ironing board cover. 2,608,774, Sept. 2.

McCrory, Willis E., deceased, Okmulgee, Okla., by R. W. Morgan, executor, Wichita Falls, Tex. Space heater with means to preheat fuel therefor. 2,608,967, Sept. 2.

McCrystle, John, New Brunswick, N. J. Screening of fibrous material. 2,608,910, Sept. 2.

McCullough, Jack A., Millbrae, assignor to Eitel-McCullough, Inc., San Bruno, Calif. Ultrahigh frequency electron tube. 2,609,517, Sept. 2.

McDonald, John W., Grampian, Pa. Piercing valve. 2,608,989, Sept. 2.

McDonnell, James L. C., Castro Valley, Calif. Frankfurter toaster. 2,608,928, Sept. 2.

McElhinney, Eric M., Dysart, and T. A. Podhajsky, Traer, Iowa. Sharp turn steering apparatus for vehicles. 2,609,216, Sept. 2.

McFarland, Robert J., White Bear Lake, Minn. Fish lure. 2,608,790, Sept. 2.

McIlvried, Edwin J., assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Mechanism for drawing wire. 2,609,087, Sept. 2.

McIlvried, Edwin J., Stow, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Wire drawing mechanism. 2,609,088, Sept. 2.

McKelvy, Neville C.: *See*—
Weyandt, Carl S., and McKelvy.

McKenney, Henry F., Flushing, and G. A. Lieske, Brooklyn, N. Y., assignors to The Sperry Corporation. Register control system. 2,609,197, Sept. 2.

McKenzie, Dennis I., assignor to Moraine Box Company, Dayton, Ohio. Container. 2,609,135, Sept. 2.

McKenzie, James G., Houston, Tex. Elevator apparatus. 2,609,112, Sept. 2.

McKinney, Guy E., and P. J. Motter, Canton, Ohio. Treating ferrous metals with aluminum. 2,609,289, Sept. 2.

McLaughlin, Bernard A., San Francisco, Calif. Portable accessory case. 2,609,073, Sept. 2.

McLaughlin, Eli H., Parkersburg, W. Va., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Hardware attachment. 2,609,069, Sept. 2.

McMahon, Edward F.: *See*—
McMahon, Robert E., and E. F.

McMahon, Robert E., and E. F., Seattle, Wash. Corrosion inhibitor for heat exchangers and the like. 2,609,340, Sept. 2.

McMurtrie, Dallas W., Veedersburg, Ind. Trailer for farm tractors. 2,609,212, Sept. 2.

McNally, James A., United States Navy. Jet airfoil brake. 2,609,168, Sept. 2.

McNamara, Timothy L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Contacting of immiscible liquids. 2,609,277, Sept. 2.

McNeil, Jack G., Fort Leonard Wood, Mo. Polishing guard. 2,608,808, Sept. 2.

Medill, Edward C., Snohomish, and F. P. Hewitt, Monroe, Wash. Bottle carrier. 2,609,227, Sept. 2.

Meeker, William H., assignor to Hickok Manufacturing Co. Inc., Rochester, N. Y. Necktie clasp. 2,608,729, Sept. 2.

Mégel, Guillaume E., and H. Mancia, assignors to Usines Tornos Fabrique de Machines Moutier S. A., Moutier, Switzerland. Adjusting and engaging mechanism. 2,608,879, Sept. 2.

Meidinger, Edwin, Lethbridge, Alberta, Canada. Cultivator. 2,608,925, Sept. 2.

Meier, Jerzy W., Ottawa, Ontario, Canada, assignor to Her Majesty the Queen in the right of Canada, as represented by the Minister of Mines and Technical Surveys. Magnesium alloy and treatment. 2,609,309, Sept. 2.

Meissner, William E., East Orange, N. J. Method and apparauts for shaping thermoplastic sheet material. 2,608,720, Sept. 2.

Meissner, William E., Newark, N. J. Flexible tubing. 2,609,002, Sept. 2.

Merck & Co., Inc., assignee: *See*—
Brink, Norman G., and Wood.

Merkle, Alfred, East Northport, assignor to American Sealcone Corporation, New York, N. Y. Apparatus for securing a closure supporting ring in the end of a receptacle body. 2,608,914, Sept. 2.

Metalwash Machinery Company, assignee: *See*—
Zademach, Erich R., and Clarke.

Michels, Walter C., Strafford, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electronic frequency eliminating apparatus. 2,609,446, Sept. 2.

Middlemark, Marvin P., Woodside, N. Y. Selective direction television and high-freqeuncy antenna system. 2,609,503, Sept. 2.

Miller, Anthony: *See*—
Crawford, Clark A., and Miller.

Miller, Donald W.: *See*—
Miller, Herbert G., and D. W.

Miller, F. Brock, trustee: *See*—
Mishler, Archie L.

Miller, Herbert G., Jr., and D. W. Miller, Saginaw, Mich. Wrench handle detachably connectible to rigid-jaw type wrench head. 2,608,894, Sept. 2.

Miller, John, Elmhurst, N. Y. Temperature indicator device. 2,608,862, Sept. 2.

Miller, Robert A.: *See*—
Olson, Henry L., and Miller.

Miller, Roy G., Bayside, assignor to East Coast Aeronautics, Inc., New York, N. Y. Closure. 2,609,117, Sept. 2.

Miller, William E., assignor to The Morse Instrument Company, Hudson, Ohio. Spool for photographic film processing machines. 2,608,876, Sept. 2.

Mindheim, Daniel J., Newark, N. J. Burling tool. 2,608,698, Sept. 2.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Fitzgerald, Frank R.
Michels, Walter C.

Minneapolis-Moline Company, assignee: *See*—
Wuertz, Paul P.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Nestor, Leonard R.

Minnesota and Ontario Paper Company, assignee: *See*—
Lahaie, Fred J.

Minton, John H., Ona-Locka, Fla. Machine for molding drain tile. 2,608,739, Sept. 2.

Mishler, Archie L., Portland, Oreg., F. Brock Miller trustee of the estate of said A. L. Mishler, bankrupt. Pattern roll table. 2,608,780, Sept. 2.

Mitchell, Archibald R., Hornchurch, England. Door latch and adjustable keeper. 2,609,224, Sept. 2.

Modigliani, Piero, Manhasset, assignor to Johns-Manville Corporation, New York, N. Y. Making flexible unwoven fabric. 2,609,320, Sept. 2.

Moen, Alfred M., assignor of one-tenth to R. O. Boyker, Seattle, Wash. Faucet. 2,609,205, Sept. 2.

Moen, Alfred M., assignor of one-tenth to R. O. Boyker, Seattle, Wash. Mixing faucet. 2,609,206, Sept. 2.

Moerger, John N., assignee: *See*—
Noel, William A.

Mollendorf, Jean D., Park Ridge, assignor to Illinois Prestcrete Co., Chicago, Ill. Slab handling device. 2,609,225, Sept. 2.

Mona Lisa Foundations, Inc., assignee: *See*—
Leonard, Joseph.

Monarch Machine Tool Co., The, assignee: *See*—
Foster, Theodore D., and Lauterbur.
Green, Claude E.
Green, Claude E., and Lesher.

Monroe, Homer K., assignor to Hartzell Propeller Fan Company, Piqua, Ohio. Reversible propeller blade. 2,609,055, Sept. 2.

Monsanto Chemical Company, assignee: *See*—
Basdekis, Costas H., and Jackson.
Beaver, David J.

Montgomery, William E., Wilmington, Del., assignor to American Car and Foundry Company, New York, N. Y. Packing and application. 2,608,728, Sept. 2.

Mooradian, Victor G., East Orange, assignor to The H. A. Wilson Company, Newark, N. J. Clad beryllium-copper alloys. 2,608,753, Sept. 2.

Moorehead, James R., Renton, and R. S. Reinhold, Seattle, Wash., to Boeing Airplane Company. Collector ring mount. 2,608,819, Sept. 2.

Moore, Joseph L., New Carlisle, assignor of one-half to I. E. van Pelt, East Cleveland, Ohio. Delimiting appliance for closures. 2,608,711, Sept. 2.

Moore Milling Company, Inc., assignee: *See*—
Moore, Thomas M.

Moore, Norman C.: *See*—
Bennert, Malcolm O., and Moore.

Moore, Thomas M., deceased, Salem, Va., by The Bank of Salem, administrator, assignor to Moore Milling Company, Inc., Salem, Va. Feed control for hammer mills. 2,609,153, Sept. 2.

Moore, Walter L., Austin, Tex., and G. P. Carver, Northridge, Calif.; said Carver assignor to said Moore. Skitow apparatus. 2,608,935, Sept. 2.

Moraine Box Company, assignee: *See*—
McKenzie, Dennis I.

Morgan, Jack R., New York, N. Y., N. E. Alexander, Mount Airy, Md., and E. A. Comley, Minneapolis, Minn., assignors to the United States of America as represented by the Secretary of the Navy. Manometer. 2,608,865, Sept. 2.

Morgan, Ralph W., executor: *See*—
McCrory, Willis E.

Morgann, Robert O., and R. J. Bush, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Sealing strip for steel sash windows. 2,609,071, Sept. 2.

Morris, Kenneth G., Cranford, and R. A. Van Sweringen, Jr., Roselle Park, N. J., assignors to Standard Oil Development Company. Turbojet fuel. 2,609,279, Sept. 2.

Morrison, George L., Evanston, Ill. Photographing printing forms. 2,609,293, Sept. 2.

Morse, George E., Vandalia, and J. K. Allbright, Dayton, Ohio. Automatic drift for boring mill spindles. 2,608,886, Sept. 2.

Morse Instrument Company, The, assignee: *See*—
Miller, William E.

Moseley, Mortimer H., Eddyville, Ky. Solar heat converter. 2,608,968, Sept. 2.

Motorola, Inc., assignee: *See*—
Schlesinger, Kurt.

Mott, Loammia O., Bristow, Okla. Automatic vertically pivoted gate. 2,608,775, Sept. 2.

Motter, Paul J.: *See*—
McKinney, Guy E., and Motter.

Mowbray, Douglas T., Waterloo, Iowa. Antiskid foot operated bellows. 2,609,000, Sept. 2.

Moyer, Walter W., Company, assignee: *See*—
Godshall, Nicholas G., and Marks.

Mueller, Homer L., assignor to The Cleveland Welding Company, Cleveland, Ohio. Vehicle wheel. 2,609,244, Sept. 2.

Mundt, Theodorus W., Bilthoven, Netherlands. Rail chair. 2,609,148, Sept. 2.

Murphy, Charles M., Jr.: *See*—
Saunders, Charles E., and Murphy.

Murray Corporation of America, The, assignee: *See*—
Hess, Werner G.

Murrill, James, San Francisco, Calif. Safety lock for trailers. 2,609,211, Sept. 2

Murtagh, James J.: *See*—
Kinker, Clarence C., and Murtagh.

Myers, C. Stowe, assignee: *See*—
Ivins, Barbara, and Peltz.

Myshock, Louis, Detroit, Mich. Mop holder and fountain spray device. 2,609,236, Sept. 2.

Naamlooze Vennootschap W. A. Scholten's Chemische Fabrieken, assignee: *See*—
Kool, Cornelis M. H., van Westen, and Hartstra.
Lolkema, Jan, and van Westen.

Nagel, Edward H., and A. O. Hubbell, assignors to C. F. Norris, Long Beach, Calif. Doughnut dough dispenser. 2,608,940, Sept. 2.

National Aluminate Corporation, assignee: *See*—
Johnson, Carl E.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Lauritsen, Charles C.
Morgan, Jack R., Alexander, and Comley.

Naylor, Joseph F., Newton-le-Willows, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Dough molding device. 2,608,939, Sept. 2.

Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek, ten behoeve van Nijverheid, Handel en Verkeer, assignee: *See*—
Taat, Willem J., and Korndorffer.

Neill, James, & Company (Sheffield) Limited, assignee: *See*—
Bower, William L.

Nelson, Brooks E., assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Brush element and manufacture. 2,609,242, Sept. 2.

Nelson, Channing C.: *See*—
Casler, John R., and Nelson.

Nelson, J. N., Co., Inc., assignee: *See*—
Nelson, John N.

Nelson, John N., Cranston, R. I., assignor to J. N. Nelson Co., Inc. Temple hinge mounting providing catch and stop surfaces. 2,608,905, Sept. 2.

Nelson, Oliver K. K., assignee: *See*—
Adams, William B.

Nemeth, Otto R., Los Angeles, Calif. Picture viewing device. 2,608,902, Sept. 2.

Nemeth, Otto R., Los Angeles, Calif. Toy railway. 2,609,413, Sept. 2.

Nemeth, Otto R., Los Angeles, Calif. Device for viewing pictures. 2,608,903, Sept. 2.

Nestor, Leonard R., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasive article and making. 2,609,284, Sept. 2.

New York Air Brake Company, The, assignee: *See*—
Kirkham, Hall.

Niedercorn, Joseph G., Pearl River, assignor to American Cyanamid Company, New York, N. Y. Producing aureomycin. 2,609,329, Sept. 2.

Niemi, William F., Seattle, Wash. Darting fish lure of the swimming type. 2,608,788, Sept. 2.

Nilsen, Arne, and K. Rohrer, assignors to Onsrud Machine Works, Inc., Chicago, Ill. Precision hole grinder. 2,608,807, Sept. 2.

Noel, William A., assignor of one-third to J. N. Moerger and one-third to R. C. King, Washington, D. C. Automatic dehydration apparatus for cereals. 2,608,768, Sept. 2.

Norlindh, Sven E. M., Morgardshammar, Sweden. Rolling mill guide. 2,608,888, Sept. 2.

Norris, Coma F., assignee: *See*—
Nagel, Edward H., and Hubbell.

Norris, John W., Marshalltown, Iowa, assignor to The University of Illinois Foundation. Furnace with door latching means and combustion gas by-pass controlled thereby. 2,608,944, Sept. 2.

Northrop Aircraft, Inc., assignee: *See*—
Hill, Robert F.

Nye, Norman H., assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio. Wire bundling mechanism. 2,609,159, Sept. 2.

Nye, Robert G., San Diego, Calif. Mechanical pressure latch. 2,609,268, Sept. 2.

Obitz, Samuel A., assignor to Pittsburgh Waterproof Company, Pittsburgh, Pa. Ironer roll and pad with heat-reflecting sheet applied thereto. 2,608,749, Sept. 2.

Ocean City Mfg. Co., assignee: *See*—
Van Sciver, Earl T., W. J., and E. P.

Odin Corporation, assignee: *See*—
Bulliet, Leander J.

Odin Corporation, assignee: *See*—
Peterson, Gustaf J., and Smith.

O'Gorman, William F., New York, assignor to Adolite Mfg., Inc., Flushing, N. Y. Moving sign. 2,608,778, Sept. 2.

Ohio Boxboard Company, The, assignee: *See*—
Hickin, Robert J.

Ohio State University Research Foundation, The, assignee: *See*—
Gaver, Kenneth M.
Gaver, Kenneth M., Lasure, and Thomas.
Gaver, Kenneth M., Lasure, and Tieszen.

Oilgear Company, The, assignee: *See*—
Ferris, Walter.

Oishei, John R., Buffalo, N. Y. Windshield cleaner. 2,608,707, Sept. 2.

Oklejas, Eli, Bolles Harbor, Mich. Self-unloading conveyer body. 2,609,115, Sept. 2.

Olson, Florence A., Janesville, Wis. Collapsible toy building. 2,608,726, Sept. 2.

Olson, Henry L., and R. A. Miller, assignors to Camfield Manufacturing Company, Grand Haven, Mich. Color control for electric bread toasters. 2,609,473, Sept. 2.

Olson Manufacturing Company, assignee: *See*—
Lembke, John.

O'Neil, Charles S., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Drier. 2,608,769, Sept. 2.

Onondaga Pottery Company, assignee: *See*—
Arelt, Eugene G.

Onsrud Machine Works, Inc., assignee: *See*
Nilsen, Arne, and Rohrer.
Pankonin, Earl T.

Ontario Paper Company Limited, The, assignee: *See*—
Summers, Theodore.

Orner, Harry, Cleveland Heights, Ohio. Automatic torque converter. 2,608,884, Sept. 2.

Osborn Manufacturing Company, The, assignee: *See*—
Nelson, Brooks E.

Oster, John, Manufacturing Company, assignee: *See*—
Brown, Ellis M.

Ostwald, Walter: *See*—
Haase, Kurt, and Ostwald.

Otis, Eleanor G., Bradford, Mass., and W. W. Salisbury, Cedar Rapids, Iowa, assignors to the United States of America as represented by the Secretary of War. Cavity resonator. 2,609,449, Sept. 2.

Overman, Joseph J., Albany, Minn. Straw windrower. 2,609,080, Sept. 2.

Padevco, Inc., assignee: *See*—
Harmon, Gregory J.
Wilmotte, Raymond M.
Young, Larry L.

Pad-Y-Wax Company, Inc., The, assignee: *See*—
Stroop, John H.

Paecht, William A. *See*—
Gray, Russell D., Jr., and Paecht.

Pajak, Theodore P.: *See*—
Engel, Harry C., Troxell, and Pajak.

Pajak, Theodore P., Baltimore, assignor to The Glenn L. Martin Company, Middle River, Md. Metal foil honeycomb core. 2,609,068, Sept. 2.

Palmer-Bee Company, assignee: *See*—
McBride, Jesse E., and Boehm.

Palmer, Ralph F., Montclair, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stand for dress-forms and the like. 2,609,132, Sept. 2.

Pankonin, Earl T., assignor to Onsrud Machine Works, Inc., Chicago, Ill. Roller slide for radial arm shapers. 2,608,908, Sept. 2.

Panoramic Laboratories, assignee: *See*—
Wallace, Marcel.

Paradise, Louis A., Moline, and J. H. Berry, Rock Island, assignors to Deere & Company, Moline, Ill. Feeder means for hay balers. 2,608,929, Sept. 2.

Parker, Joseph A., Los Angeles, Calif. Collapsible arm support table for operating tables or beds. 2,609,261, Sept. 2.

Parker Rust Proof Company, assignee: *See*—
Gibson, Robert C.

Parsons and Marine Engineering Turbine Research and Development Association, The, assignee: *See*—
Darling, Robert F.

Pasotti, Felice G., Muncie, Ind., assignor to Ball Brothers Company. Glue-spotting apparatus. 2,608,949, Sept. 2.

Pasotti, Felice G., Muncie, Ind., assignor to Ball Brothers Company. Method and apparatus for glue-spotting containers. 2,609,306, Sept. 2.

Passal, Frank, Detroit, Mich., assignor to United Chromium, Incorporated, New York, N. Y. Bright copper plating from cyanide baths. 2,609,339, Sept. 2.

Patent Management, Incorporated, assignee: *See*—
Larson, Carl W.

Patterson, Donald G., Darien, Conn., assignor to American Cyanamid Company, New York, N. Y. Craze resistant resinous coating, coated product, and making it. 2,609,321, Sept. 2.

Pavlecka, Vladimir H., Pacific Palisades, and F. Dallenbach, Inglewood, assignors, to Turboelectric Corporation, Beverly Hills, Calif. Operation and regulation of thermal power plants. 2,608,822, Sept. 2.

Paynter, Frederick C., Moonee Ponds, assignor to The Steel Company of Australia Proprietary Limited, Coburg, Victoria, Australia. Cast wheel of rolling stock. 2,609,229, Sept. 2.

Pearl, Irwin A., assignor, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis. Alkyl vanillate ointment. 2,609,323, Sept. 2.

Peltz, Gordon M.: *See*—
Ivins, Barbara, and Peltz.

Perman, Einar, Eskilstuna, Sweden. Chuck. 2,609,209, Sept. 2.

Peterson, Gustaf J., and C. J. Smith, Rockford, assignors to Odin Corporation, Chicago, Ill. Article handling machine. 2,609,108, Sept. 2.

Pfann, Harry F., Mount Lebanon, Pa., and E. L. Kropa, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Alkyd resins made from a polymerized alcohol and preparation. 2,609,358, Sept. 2.

Philadelphia Valve Company, assignee: *See*—
Ziegler, Ralph B.

Philips Laboratories, Inc., assignee: *See*—
Hamacher, Edward A.

Phillips Petroleum Company, assignee: *See*—
Boyd, James H.
Dougherty, Charles F., Jr., and Chapman.
Fryling, Charles F., and Troyan.
Fryling, Charles F., and Uraneck.
Hebard, Glen G.
Mayland, Bertrand J.
McNamara, Timothy L.

Phoenix Metal Cap Co., Inc., assignee: *See*—
Tesch, Ernest A., Jr.

Platt Products Corporation, assignee: *See*—
Andrews, Henry.

Pielstick, Gustav, Saint-Germain-en-Laye, France. Combustion engine cylinder head casing. 2,608,965, Sept. 2.

Pierce, John R., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode-ray tube. 2,609,520, Sept. 2.

Pierlot, Maurice, Heist-Aan-Zee, Belgium. Otter board. 2,608,781, Sept. 2.

Pigman, William W., Appleton, Wis., R. W. Kerr, Riverside, and N. F. Schink, River Forest, Ill., assignors to Corn Products Refining Company, New York, N. Y. Cold water dispersible starch product and preparing the same. 2,609,326, Sept. 2.

Pippard, Alfred B., Cambridge, England. Aerial system. 2,609,505, Sept. 2.

Pittsburgh Waterproof Company, assignee: *See*—
Obitz, Samuel A.

Place, Charles L., Norfolk, Conn. Propeller fan construction. 2,609,058, Sept. 2.

Plusje, Mathijs H. R. J., Beek, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands. Production of calcium phosphates and calcium nitrate. 2,609,271, Sept. 2.

Podhajsky, Theodore A.: *See*—
McElhinney, Eric M., and Podhajsky.

Poe, William A., assignor, to Browne-Morse Company, Muskegon Heights, Mich. Top to frame connecting structure mechanism. 2,609,264, Sept. 2.

Polaroid Corporation, assignee: *See*—
Land, Edwin H.

Pollard, Charles E. Jr.: *See*—
Brown, John T. L., and Pollard.

Polly, Orville L., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Modified resins from polystyrenes and esters of saturated aliphatic dicarboxylic acids and unsaturated alcohols. 2,609,354, Sept. 2.

Pommer, Horst: *See*—
Inhoffen, Hans H., and Pommer.

Ponnequin, Louie H., Honolulu, Territory of Hawaii. Hub structure. 2,609,243, Sept. 2.

Poor & Company, assignee: *See*—
Radeke, Walter H.

Posselt, Ejnar, Pelham Manor, assignor to Lone Star Cement Corporation, New York, N. Y. Clinker cooling. 2,609,149, Sept. 2.

Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Quick fastening device. 2,608,735, Sept. 2.

Precision Paper, Inc., assignee: *See*—
Davis, Harold M.

Prentice, Leland B., Arcadia, assignor to Technicolor Motion Picture Corporation, Los Angeles, Calif. Cinematographic matte film and making it. 2,609,294, Sept. 2.

Pribyl, Edward: *See*—
Lott, William A., and Pribyl.

Pruitt, Willis: *See*—
St. Jean, Paul J., and Pruitt.

Purdue Research Foundation, assignee: *See*—
Hass, Henry B., and Alexander.

Purvis, Joseph T., Toronto, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Turbine nozzle guide vane construction. 2,609,176, Sept. 2.

Puscas, Harry Z., Rock Island, Ill. Motor-driven child's swing. 2,609,031, Sept. 2.

Pusey & Jones Corporation, The, assignee: *See*—
Bratton, Samuel M.

Pusey, Raymond D., assignor to Wilson Refrigeration, Inc., Smyrna, Del. Side opening milk cooler. 2,608,836, Sept. 2.

Pyle, Cyrus, New Castle, Del., and J. A. Lane, Oak Ridge, Tenn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Falling-film fractionation. 2,609,334, Sept. 2.

Pyrene Manufacturing Company, assignee: *See*—
Faulkner, James, and Toth.

Quaker Oats Company, The, assignee: *See*—
Kirk, Douglas.
Korber, Eugene.

Quinn, Edward, Sangus, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Platform laying and platform cover turning machine. 2,608,701, Sept. 2.

Quinn, Frederic R., Schenectady, N. Y., assignor to General Electric Company. Resistance materials and elements. 2,609,470, Sept. 2.

Quinn, William H., West Orange, N. J. Milling attachment for lathes. 2,608,909, Sept. 2.

Quirk, Agnes J., Washington, D. C. Production of penicillin mold and jelly. 2,609,322, Sept. 2.

Raburn, Louis E., Evansville, Ind., and J. P. Woods, Dallas, Tex., assignors to the United States of America as represented by the Secretary of the Army. Voltage regulator circuit. 2,609,527, Sept. 2.

Radeke, Walter H., Blue Island, assignor to Poor & Company, Chicago, Ill. Battery cell inspecting and testing system. 2,609,409, Sept. 2.

Radiart Corporation, The, assignee: *See*—
Finke, Theodore R.

Radio Corporation of America, assignee: *See*—
Avins, Jack.
Bergson, Gustav.
Flory, Leslie E.
Goldsmith, Alfred N.
Kelzer, Eugene O.
Law, Harold B.
Stelmak, John P.
Tricebock, Donald J., and York.

Raleigh, Delbert S., Reno, Nev. Wick type vaporizer. 2,609,230, Sept. 2.

Ramey, Robert A., and W. Soller, Cincinnati, Ohio. Apparatus for measuring velocity. 2,608,860, Sept. 2.

Ramsey Corporation, assignee: *See*—
Marien, Melvin W.

Ranney, Herbert H., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Wear-compensating spindle head. 2,609,252, Sept. 2.

Raven, Jan P. C., assignor to Foster Wheeler Corporation, New York, N. Y. Control valve. 2,608,997, Sept. 2.

Rawson, Harold R., Downers Grove, Ill. Hotbed. 2,608,797, Sept. 2.

Rayburn, Vincent A., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for slitting articles. 2,609,049, Sept. 2.

Raytheon Manufacturing Company, assignee: *See*—
Dawson, John W.

Rea, Wilton T., Manhassett, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Half duplex telegraph repeater, including break feature. 2,609,453, Sept. 2.

Reed, Lionel C., Mount Vernon, N. Y., assignor to Schwarz Laboratories, Inc. Separation of cellular organisms from aqueous suspensions thereof. 2,609,328, Sept. 2.

Reed, Price L., Royersford, assignor to Superior Tube Company, Philadelphia, Pa. Machine for making electrode assemblies. 2,608,743, Sept. 2.

Reeves Pulley Company, assignee: *See*—
Reeves, Walter.

Reeves, Walter, Wakefield, Mass., assignor to Reeves Pulley Company, Columbus, Ind. Constant tension control. 2,608,741, Sept. 2.

Reid, John D.: *See*—
Daul, George C., and Reid.

Reijnst, Maximilien F. and R. H. de Beer, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Magnetizing partly demagnetized permanent field magnets in alternating current generators. 2,609,411, Sept. 2.

Reijnst, Maximilien F. and R. H. de Beer, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device comprising an alternating current generator having permanent field magnets. 2,609,528, Sept. 2.

Reimann, Leo D., Salem, Oreg. Dispensing and atomizing container. 2,609,235, Sept. 2.

Reinhold, Richard S.: *See*—
Moorehead, James R., and Reinhold.

Reinicke, Herbert, Ebingen, Germany. Spinning mechanism. 2,608,817, Sept. 2.

Research Corporation, assignee: See—
Hahn, Alfred Z.

Reynolds, Peter W.: *See*—
Davies, Phineas, Reynolds, Coats, and Taylor.

Rice, William W., Chicago, Ill. Drinking cup for use by infants and invalids such as chair and bedridden patients. 2,608,841, Sept. 2.

Ridley, Inn M., Los Angeles, Calif. Valve. 2,608,801, Sept. 2.

Rishol, Alfred H., Wilmette, C. F. Weinreich, Des Plaines, Ill., and L. Burrell, Little Falls, N. Y., assignors to Cherry-Burrell Corporation, Wilmington, Del. Device for handling butter and like materials. 2,608,759, Sept. 2.

Ritter, George F., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Marking surface. 2,608,800, Sept. 2.

Roberts, Earl T., Baltimore, Md., assignor to The Fluorescent Electric Manufacturing Company. Lamp case for elongated tubular lamps. 2,609,483, Sept. 2.

Robertson Paper Box Co., Inc., assignee: *See*—
Tyrseck, Walter J.

Roe, A. V., Canada Limited, assignee: *See*—
Purvis, Joseph T.

Roediger, Joseph C., Brooklyn, N. Y., assignor to Standard Oil Development Company. Preparing asphalt coated aggregate. 2,609,305, Sept. 2.

Rogers, Frank O., Dearborn, Mich. Fishing tip-up signal. 2,608,783, Sept. 2.

Rohm & Haas Company, assignee: *See*—
Koroly, Joseph E.

Rohrer, Karl: *See*—
Nilsen, Arne, and Rohrer.

Rolls-Royce Limited, assignee: *See*—
Shelley, Thomas, and Kent.

Roman, Paul, Tuckahoe, assignor to R. M. Roman, Scarsdale, N. Y. Visual indicator and control for miniature trains. 2,609,489, Sept. 2.

Roman, Ruth M., assignee: *See*—
Roman, Paul.

Romo, Jesús: *See*—
Rosenkranz, George, Kaufmann, and Romo.

Rosenberry, W. Kenneth, assignee: *See*—
Heikes, Norman L.

Rosenkranz, George, S. Kaufmann, and J. Romo, assignors to Syntex, S. A., Mexico City, Mexico. Producing testosterone. 2,609,378, Sept. 2.

Ross, Elmer R., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake. 2,609,066, Sept. 2.

Rotary Hoes Limited, assignee: *See*—
Howard, Arthur C.

Roth, Robert I., Mount Pleasant, assignor to International Business Machines Corporation, New York, N. Y. Magnetic tape controlled punch. 2,609,050, Sept. 2.

Rothbardt, Adolph M., Chicago, Ill. Swab holder. 2,609,089, Sept. 2.

Rothe, Charles R., G. Ellyn, and J. D'Esposito, assignors to Container Corporation of America, Chicago, Ill. Bicycle wheel brace. 2,609,091, Sept. 2.

Rubens, Louis C., and R. F. Boyer, Midland, Mich., assignors to The Dow Chemical Company. Polymerizable composition of styrene, unsaturated alkyd resin, and elastomer. 2,609,353, Sept. 2.

Rundell, Rupert E., Rockville Centre, N. Y., assignor to American Machine and Foundry Company. Backstop mechanism for bowling pin spotting machines. 2,609,200, Sept. 2.

Rupp, Walter H., Mountainside, N. J., assignor to Standard Oil Development Company. Dry Ice manufacture. 2,608,838, Sept. 2.

Ruschig, Heinrich, Frankfort-on-the-Main, assignor to Farbwerke Hoechst vormals Meister Lucius & Bruning, Frankfort-on-the-Main-Hochst, Germany. Preparing 21-iodo-pregnene-(5)-ol-(3)-one-(20). 2,609,379, Sept. 2.

Russ, John A., Massillon, Ohio. Food preparing device. 2,609,024, Sept. 2.

Russell, Peter B., Tuckahoe, N. Y., and N. Whittaker, London, England, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. α-aryl-β-alkoxyacrylonitriles and preparing same. 2,609,384, Sept. 2.

Russum, Leonard W., Whiting, and J. F. Coffey, Valparaiso, Ind., assignors to Standard Oil Company, Chicago, Ill. Hydrogen process. 2,609,274, Sept. 2.

Ryan, Joseph D., and P. T. Mattimoe, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Glare screen. 2,609,269, Sept. 2.

Rydberg, John Anders, Stockholm, assignor to Aktiebolaget Gustavsbergs Fabriker, Gustavsberg, Sweden. Circulation inducing device for return water connection in heating boilers. 2,608,950, Sept. 2.

S & S Corrugated Paper Machinery Co., Inc., assignee: *See*—
Hess, Charles.

St. Jean, Paul J., and W. Pruitt, assignors to Lawrence Products Company, Inc., Attalla, Ala. Machine for weaving loops into fabrics. 2,609,004, Sept. 2.

St. John, Dudley, Fresno, Calif. Method and apparatus for photogrammetrically constructing topographical maps. 2,608,763, Sept. 2.

Salisbury-Rowswell, Pelham, London, England. Secondary galvanic cells and electrodes of such cells. 2,609,407, Sept. 2.

Salisbury, Winfield W.: *See*—
Otis, Eleanor G., and Salisbury.

Salt, Francis E., Banstead, W. Webster, Epsom, England, and E. Galitzenstein, deceased, London, England, by G. Galitzenstein, legal representative, Wallington, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of styrene compounds. 2,609,403, Sept. 2.

Samans, Walter A., Philadelphia, Pa., and W. B. Weaver, Blooming Rose, W. Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Shaping device. 2,609,048, Sept. 2.

Sandberg, Ray A., Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Straight pull brake lever assembly. 2,608,881, Sept. 2.

Sandin, Ray C., Oak Park, and T. M. Steinbach, Chicago, Ill., assignors to Hotpoint Inc. Illuminated backsplasher for electric ranges. 2,609,475, Sept. 2.

Saunders, Charles E., and C. M. Murphy, Jr., Washington, D. C. Oxidation inhibitor for lubricating oils. 2,609,343, Sept. 2.

Schaffel, Gerson S., Cuyahoga Falls, assignor to The General Tire and Rubber Company, Akron, Ohio. Resinous products containing chloroisopropenyl - toluene. 2,609,361, Sept. 2.

Scheirich, H. J., Co., assignee: *See*—
Himelreich, Louis E.

Schemm, Henry R., assignor to Huron Portland Cement Company, Detroit, Mich. Self-unloading bin. 2,609,125, Sept. 2.

Schenley Industries, Inc., assignee: *See*—
Winsten, Walter A.

Schilling, Robert, Birmingham, assignor to General Motors Corporation, Detroit, Mich. Making single leaf springs. 2,608,752, Sept. 2.

Schink, Norbert F.: *See*—
Pigman, William W., Kerr and Schink.

Schlesinger, Kurt, Maywood, assignor to Motorola, Inc., Chicago, Ill. Vertical deflection system. 2,609,507, Sept. 2.

Schmidt, Erwin J., Dayton, Ohio, assignor to The Dayton Rubber Company. Generator drive for railway vehicles. 2,608,936, Sept. 2.

Schneider, Paul L., W. H. Taylor and H. J. Cromwell, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Engine starter control apparatus. 2,609,514, Sept. 2.

Schneider, William C.: *See*—
Kolachov, Paul J., and Schneider.

Schoene, Dwight L.: *See*—
Knapp, Robert L., and Schoene.

Schreiber & Goldberg, assignee: *See*—
Goldberg, David.

Schreier, Konrad F., Lake Forest, and Ben Bartolucci, Chicago, Ill. Air and gas cleaner. 2,609,062, Sept. 2.

Schrepper, George F., Algonac, Mich. Corner forming tool. 2,608,853, Sept. 2.

Schreyer, Ralph C., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. 3-methyleneglutaronitrile. 2,609,385, Sept. 2.

Schroder, Charles, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Ribbon feed for typewriting machines. 2,609,077, Sept. 2.

Schulder, Paul, Brooklyn, assignor to Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y. Power transmitter. 2,609,075, Sept. 2.

Schuler, Fred G., assignor to Youngstown Manufacturing, Incorporated, Youngstown, Ohio. Price tag molding. 2,608,776, Sept. 2.

Schuler, Fred G., assignor to Youngstown Manufacturing, Inc., Youngstown, Ohio. Price tag and molding trim. 2,608,777, Sept. 2.

Schultz, C. B., assignee: *See*—
Schultz, Myrtle M.

Schultz, Carl E., assignor to Laboratory Equipment Corporation, St. Joseph, Mich. Magnetic door catch. 2,609,221, Sept. 2.

Schultz, Myrtle M., Texarkana, assignor of six-tenth to C. B. Schultz, Miller County, Ark., and one-tenth to B. Blalock, Texarkana, and three-tenth to T. B. Westbrook, Smith County, Tex. Defroster. 2,609,472, Sept. 2.

Schutte, August H.: *See*—
Bowles, Vernon O., and Schutte.

Schwaller, Bernard L.: *See*—
Von Kokeritz, Karl, Blackford and Schwaller.

Schwantes, William C., Manitowoc, Wis. Traveling saw and saw table therefor. 2,609,014, Sept. 2.

Schwartz, Paul J., Kingfisher, Okla. Fishhook construction with pull actuated release means. 2,608,786, Sept. 2.

Schwarz Laboratories, Inc., assignee: *See*—
Reed, Lionel C.

Scott, George W., Claymont, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Chlorinated polychloroprene latex. 2,609,365, Sept. 2.

Scott, Harry T., Los Angeles, Calif. Carburetor. 2,609,187, Sept. 2.

Scott, Joseph E., Pratt, Kans. Articulator. 2,608,761, Sept. 2.

Seagram, Joseph E., & Sons, Inc., assignee: *See*—
Kolachov, Paul J., and Schneider.

Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Pin file-fastener. 2,608,732, Sept. 2.

Seibert, Eduardo, Rivera, Uruguay. Device for automatically stopping warp knitting and similar machines for making mesh goods in case of rupture of threads. 2,608,846, Sept. 2.

Semel, David O., Los Angeles, Calif. Dishwashing apparatus of the gear-driven rotary brush type. 2,608,704, Sept. 2.

Senkus, Murray and P. C. Markunas, assignors to Commercial Solvents Corporation, Terre Haute, Ind. Recovery of bacitracin. 2,609,324, Sept. 2.

Sermeus, William T., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Partition. 2,609,436, Sept. 2.

Serrano, Edmundo H., St. Louis, Mo. Clamp for stringing rackets. 2,608,737, Sept. 2.

Service Caster and Truck Corporation, assignee: *See*—
Huffman, Levi D.

Severson, Arthur, Milwaukee, Wis. Window stop. 2,609,222, Sept. 2.

Seyforth, Rome C., assignor to The Shelby Metal Products Company, Shelby, Ohio. Drawer pull. 2,608,712, Sept. 2.

Seyforth, Rome C., assignor to The Shelby Metal Products Company, Shelby, Ohio. Atomizer. 2,609,234, Sept. 2.

Shannon, Mary A., Lakewood, Ohio. Finger comb. 2,608,975, Sept. 2.

Sharp & Dohme, Incorporated, assignee: *See*—
Crossley, Frank S.
Ziegler, Carl.

Sharp, Donald E., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Method and apparatus for producing sheet glass. 2,608,798, Sept. 2.

Sharples Chemicals Inc., assignee: *See*—
Tischler, Nathaniel.

Shelby Metal Products Company, The, assignee: *See*—
Seyforth, Rome C.

Shell Development Company, assignee: *See*—
Cattaneo, Alfred G.
Jonker, Frits.
Winkler, De Loss E.

Shelley, Thomas, Breaston, Derby, and N. H. Kent, Allestree, Derby, assignors to Rolls-Royce Limited, Derby, England. Internal-combustion engine with supercharger driven by an exhaust turbine. 2,608,818, Sept. 2.

Shilstone, Dorothy E., Lake Mahopac, N. Y. Cover for paint in opened paint cans. 2,609,119, Sept. 2.

Shipton, E., & Company Limited, assignee: *See*—
Joseph, Raymond J.

Sider, Nicholas M., Fort Wayne, Ind., assignor to Container Corporation of America, Chicago, Ill. Packing element. 2,609,136, Sept. 2.

Siezen, Gerrit J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Gaseous tube oscillator. 2,609,506, Sept. 2.

Silentbloc Limited, assignee: *See*—
Hutton, Philip C.

Silver, Harold F., and C. R. Steele, Denver, Colo., assignors to Joy Manufacturing Company. Hydraulic control apparatus for adjusting and locking mechanism. 2,608,823, Sept. 2.

Sinclair Refining Company, assignee: *See*—
Cheney, Leroy K.

Singer Manufacturing Company, The, assignee: *See*—
Hacklander, Hans.
Palmer, Ralph F.
Snyder, Ellsworth B.

Singer, Philip A., and H. J. Deobald, Peoria, Ill., assignors to Allied Mills, Inc. Treatment of soya beans. 2,609,299, Sept. 2.

Sjöström, Charles G. E., Alnarp, Akarp, and Å. V. Larsson, Linkoping, Sweden. Protecting fatty and phosphorous lipoidic food products, particularly milk and dairy products, margarine and the like, against getting unpleasant taste or flavor. 2,609,297, Sept. 2.

Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave generating circuits. 2,609,508, Sept. 2.

Skibowski, George B., Pontiac, Mich. Plunger for clearing waste pipes and drains. 2,608,695, Sept. 2.

Slayton, Ransom D., Elmhurst, assignor to Teletype Corporation, Chicago, Ill. Electronic control circuit for perforators. 2,609,444, Sept. 2.

Slayton, Ransom D., Elmhurst, assignor to Teletype Corporation, Chicago, Ill. Electronic control circuit for recorders. 2,609,445, Sept. 2.

Smathers, Henry, Charleston, S. C. Coin wrapping device. 2,608,810, Sept. 2.

Smidth, F. S., & Co., assignee: *See*—
Eisner, Johannes.

Smith, Clarence J.: *See*—
Peterson, Gustaf J., and Smith.

Smith, Elmer H., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn. Flashback arrester. 2,609,281, Sept. 2.

Smith, Howard J., Yonkers, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Camera. 2,608,920, Sept. 2.

Smith, Robert E., Houston, Tex. Top insulator for motor vehicle bodies. 2,08,942, Sept. 2.

Smith Welding Equipment Corporation, assignee: *See*—
Smith, Elmer H.

Snyder, Clermont J., and W. G. MacLelland, Hastings on Hudson, N. Y., assignors to Anaconda Wire and Cable Company. Cleaning cupreous articles. 2,608,980, Sept. 2.

Snyder, Ellsworth B., Somerville, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Bonding machine with oscillator keying control. 2,609,480, Sept. 2.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Hartough, Howard D.
White, James R., Clark, and Woods.

Soller, Walter: *See*—
Ramey, Robert A., and Soller.

Solomon, Nathan L., Englewood, N. J. Hair curler. 2,608,978, Sept. 2.

Somma, Henry J.: *See*—
Somma, Herman R., and H. J.

Somma, Herman R., and H. J., assignors to The Somma Tool Company, Waterbury, Conn. Scribing and inspecting gauge for circular form tools. 2,608,764, Sept. 2.

Somma Tool Company, The, assignee: *See*—
Somma, Herman R., and H. J.

Sontag, Harcourt C., Arlington, Va., F. Cordero, Washington, D. C., and S. H. J. Womack, Bethesda, Md. Propeller anemometer. 2,608,859, Sept. 2.

Soss Manufacturing Company, assignee: *See*—
Soss, Samuel.

Soss, Samuel, assignor to Soss Manufacturing Company, Detroit, Mich. Friction-catch hinge. 2,608,713, Sept. 2.

Southern Fertilizer & Chemical Company, assignee: *See*—
Brent, Allen D.

Sowter, Anthony B., Wembley, assignor to The General Electric Company Limited, London, England. Cold pressure welding. 2,608,887, Sept. 2.

Sparks, Ernest, Edgware, England. Writing pad. 2,608,771, Sept. 2.

Sparks, William J., Westfield, and D. W. Young, Roselle, N. J., assignors to Standard Oil Development Company. Copolymers of a polyene, an alkene, and an olefinically unsaturated aromatic hydrocarbon. 2,609,359, Sept. 2.

Spatt, Carl, Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Textile finishing agent. 2,609,350, Sept. 2.

Spaulding, Lyman R., Portland, Oreg. Photographic developing tank. 2,608,923, Sept. 2.

Spence, Harry R., Jr., Nitro, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Rupture disk assembly. 2,608,719, Sept. 2.

Sperry Corporation, The, assignee: *See*—
Hansford, Reginald F.
Kellogg, Spencer, II, Hays, and Barkalow.
McKenney, Henry F., and Lieske.
Thompson, Herbert H.

Spielman, James F., Torrington, Conn. Turnbuckle safety-locking sleeve and combination involving same. 2,609,220, Sept. 2.

Spreckles, Adolph, assignee: *See*—
Fosnaugh, Benjamin S.

Squibb, E. R., & Sons, assignee: *See*—
Lott, William A., and Pribyl.

Stack, Cedric C., Elwood, Ind. Baby walker. 2,609,030, Sept. 2.

Standards Brands Incorporated, assignee: *See*—
Kirby, George W.

Standard Hosiery Mills, Inc., assignee: *See*—
Torgersen, Raymond A.

Standard Oil Company, assignee: *See*—
Russum, Leonard W., and Coffey.
Zimmerschied, Wilford J., and Arnold.

Standard Oil Development Company, assignee: *See*—
Amick, Erwin H., Jr.
Boucher, Frank G., and Hildebrandt.
Breedlove, Harry B., and Abbott.
Casler, John R., and Nelson.
Kleiber, Carl E.
Knapp, Richard P.
Morris, Kenneth G., and Van Sweringen.
Roediger, Joseph C.
Rupp, Walter H.
Sparks, William J., and Young.
Welch, Lester M.

Standard-Thomson Corporation, assignee: *See*—
Woods, John E.

Stanley, Alfred R., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Medium for production of penicillin. 2,609,330, Sept. 2.

Stanton, Edward C., Robbinsdale, Minn. Toaster. 2,609,044, Sept. 2.

Starre, Gerrit, and J. H. van den Berge, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Method and device for positioning electrodes and other tubular elements. 2,608,744, Sept. 2.

State College of Washington Research Foundation, assignee: *See*—
Golding, Norman S.

Stearman, Lloyd C., Dos Palos, Calif. Vapor spray system. 2,609,233, Sept. 2.

Steel Company of Australia Proprietary Limited, assignee: *See*—
Paynter, Frederick C.

Steele, Clarence R.: *See*—
Silver, Harold F., and Steele.

Steelman, Melvin W., Cobleskill, N. Y., assignor to Tyler Fixture Corporation, Niles, Mich. Temperature and humidity control for refrigerated display cases. 2,608,831, Sept. 2.

Steen, Kenneth R., Portland, Oreg., assignor to the United States of America as represented by the Secretary of the Interior. Flashover indicator. 2,609,432, Sept. 2.

Stein, Robert A., and L. S. Wasserman, assignors to Globe Industries, Inc., Dayton, Ohio. Photoflash system. 2,609,523, Sept. 2.

Steinbach, Thomas M.: *See*—
Sand'n, Ray C., and Steinbach.

Stelmak, John P., Forest Hills, N. Y., assignor to Radio Corporation of America. Three-electrode semiconductor device. 2,609,427, Sept. 2.

Stenerson, Patrick J., Fernwood, Idaho. Dentifrice cabinet. 2,609,122, Sept. 2.

Stephens, William T., Painesville, Ohio. Fluid flow control valve. 2,608,986, Sept. 2.

Stern, Benjamin, assignor to Koster's Bakery Co., Brooklyn, N. Y. Bread wrapping machine. 2,608,811, Sept. 2.

Stibitz, George R., Burlington, Vt. Electric computer for addition and subtraction. 2,609,143, Sept. 2.

Stone, Jay S., Dolgeville, N. Y. Demountable casting plug. 2,608,789, Sept. 2.

Stone, Robert R.: *See*—
Hill, Bertram C., and Stone.

Storrs, Arnold B., Palos Heights, and J. R. Froedge, Homewood, assignors to Armour and Company, Chicago, Ill. Stabilized emulsions and producing the same. 2,609,300, Sept. 2.

Strew, Kenneth G., Sherbrooke, Quebec, assignor to Dominion Textile Company Limited, Montreal, Quebec, Canada. Sliver piecing device. 2,608,725, Sept. 2.

Stroop, John H., assignor to The Pad-Y-Wax Company, Inc., New York, N. Y. Packaging machine. 2,608,809, Sept. 2.

Stuart, Alexander T., deceased, by I. E. Stuart, executrix, Toronto, Ontario, Canada. Reduction of metal oxides by gases. 2,609,288, Sept. 2.

Stuart, Isobel E., executrix: *See*—
Stuart, Alexander T.

Stubnitz-Greene Spring Corporation, assignee: *See*—
Stubnitz, Maurice.

Stubnitz, Maurice, assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich. Automobile seat spring. 2,609,036, Sept. 2.

Studdert, Helena R. K., executrix: *See*—
Studdert, Maurice E. P.

Studdert, Maurice E. P., deceased, Waterford, Eire; H. R. K. Studdert, executrix of said M. E. P. Studdert, assignor to Wray (Cameras) Limited, Bromley, England. Reflex camera with curtain shutter. 2,608,921, Sept. 2.

Studdert, Maurice E. P., deceased, Oldcourt, Waterford, Eire; H. R. K. Studdert, executrix of said M. E. P. Studdert, assignor to Wayne (Cameras) Limited, Bromley, England. Reflex camera with curtain shutter. 2,608,922, Sept. 2.

Stuetzer, Otmar M., Dayton, Ohio. Making microspacers. 2,608,722, Sept. 2.

Südwerke G. m. b. H., assignee: *See*—
Haase, Kurt, and Ostwald.

Sulphite Products Corporation, assignee: *See*—
Pearl, Irwin A.

Sulzer Freres, Societe Anonyme, assignee: *See*—
Aue, Georg.

Summers, Theodore, Hemlo, assignor to The Ontario Paper Company Limited, Thorold, Ontario, Canada. Cable clamp. 2,608,731, Sept. 2.

Sun Chemical Corporation, assignee: *See*—
Goldstein, Herman B., and Clary.

Sun Oil Company, assignee: *See*—
Winterhalter, Alfred C.

Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.

Superior Tube Company, assignee: *See*—
Reed, Price L.

Swentzel, John P., assignor to The Carborundum Company, Niagara Falls, N. Y. Silicon carbide refractory article. 2,609,318, Sept. 2.

Symington-Gould Corporation, The, assignee: *See*—
Barrows, Donald S., and Couch.

Syntex, S. A., assignee: *See*—
Rosenkranz, George, Kaufmann, and Romo.

Syntron Company, assignee: *See*—
Weyandt, Carl S., and McKelvy.

T. & T. Vicars Limited, assignee: *See*—
Naylor, Joseph F.

Taat, Willem J., and R. W. V. Korndorffer, Delft, assignors to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek, ten behoeve van Nijverheid, Handel en Verkeer, The Hague, Netherlands. Preparation of rapidly hardening cast resins from phenol and formaldehyde and tension-free castings prepared therefrom. 2,609,351, Sept. 2.

Tauman, Flora L., Long Beach, Calif. Shower. 2,609,232, Sept. 2.

Taylor, Arthur W. C.: *See*—
Davies, Phineas, Reynolds, Coats, and Taylor.

Taylor, Arthur W. C., and N. Ackroyd, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Distillation of liquid mixtures containing aldehydes and cobalt. 2,609,337, Sept. 2.

Taylor, Paul B., Dayton, Ohio. Radio beacon. 2,609,534, Sept. 2.

Taylor, Raymond G., Jr., and T. B. Losey, assignors to The Gulberson Corporation, Dallas, Tex. Well fluid holding device. 2,609,258, Sept. 2.

Taylor, William H.: *See*—
Schneider, Paul L., Taylor, and Cromwell.

Teague, Walter D., assignee: *See*—
Ivins, Barbara, and Peltz.

Technicolor Motion Picture Corporation, assignee: *See*—
Prentice, Leland B.

Teleregister Corporation, The, assignee: *See*—
Marshall, Joseph C., and Connolly.

Teletype Corporation, assignee: *See*—
Hansen, Theodore A.
Slayton, Ransom D.

Terhune, Frank A., Natick, Mass., assignor to General Motors Corporation, Detroit, Mich. Conveyer drive control. 2,609,085, Sept. 2.

Tesch, Ernest A., Jr., assignor to Phoenix Metal Cap Co. Inc., Chicago, Ill. Cap transfer mechanism for drying ovens. 2,609,106, Sept. 2.

Tesch, Ernest A., Jr., assignor to Phoenix Metal Cap Co., Inc., Chicago, Ill. Jar lid removing mechanism for drying ovens. 2,609,110, Sept. 2.

Tessmer, Raymond G.: *See*—
Howland, Eugene H., and Tessmer.

Tex Tan of Yoakum, assignee: *See*—
Tolbert, Arthur A.

Thein, John W., St. Paul, Minn. Trammel. 2,608,766, Sept. 2.

Thomas, James A., Jr., assignor to The Carborundum Company, Niagara Falls, N. Y. Abrasive article. 2,609,285, Sept. 2.

Thomas, Levi M.: *See*—
Gaver, Kenneth M., Lasure, and Thomas.

Thompson, Albert R., Los Gatos, Calif., assignor to Food Machinery and Chemical Corporation. Feed mechanism for pressure cookers. 2,609,079, Sept. 2.

Thompson Electric Company, The, assignee: *See*—
Farrington, Thayer B., and Dalzell.

Thompson, Herbert H., Manhasset, N. Y., assignor to The Sperry Corporation. Inclined gyro vertical. 2,608,869, Sept. 2.

Thurm, Léon, Mondorf-les-Bains, Luxemburg. Electromagnetic sound recorder and reproducer. 2,609,457, Sept. 2.

Tidd, Elbert De F., Clinton, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Radiant heating installation. 2,609,474, Sept. 2.

Tieszen, Derk V.: *See*—
Gaver, Kenneth M., Lasure, and Tieszen.

Timken-Detroit Axle Company, The, assignee: *See*—
Buckendale, Lawrence R., and Elconin.

Tischler, Nathaniel, Palmyra, N. J., assignor to Sharples Chemicals Inc. Plant growth regulation. 2,609,286, Sept. 2.

Titus, Ralph E., Cincinnati, Ohio. Safety attachment for the inflation of tires. 2,609,037, Sept. 2.

Todd, Max E.: *See*—
Fausset, Ernest R., and Todd.

Toensmeier, Patrick A., Catonsville, assignor to The Bartgis Brothers Company, Ilchester, Md. Carton. 2,609,137, Sept. 2.

Tolbert, Arthur A., assignor to Tex Tan of Yoakum, Yoakum, Tex. Billfold. 2,609,025, Sept. 2.

Torgersen, Raymond A., assignor to Standard Hosiery Mills, Inc., Burlington, N. C. High-back heel structure for seamless hose and method. 2,608,847, Sept. 2.

Torrence, Maynard F., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Plasticizing rubber. 2,609,405, Sept. 2.

Toth, August: *See*—
Faulkner, James, and Toth.

Townsend, Frederick H., assignor to Cathodeon Limited, Cambridge, England. Electrical apparatus for vacuum measurement. 2,609,423, Sept. 2.

Tricebock, Donald J., Philadelphia, Pa., and R. A. York, Syracuse, N. Y., assignors to Radio Corporation of America. Balance controls for metal detectors. 2,609,530, Sept. 2.

Trippler, Otto F., East Detroit, Mich. Pin curl forming device. 2,608,977, Sept. 2.

Troop, Martin, assignor of one-half to Edward Griffin, Bayonne, N. J. Automatic Pittsburgh lock seam sealer. 2,609,028, Sept. 2.

Troxell, Willard W.: *See*—
Engel, Harry C., Troxell, and Pajak.

Troyan, James E.: *See*—
Fryling, Charles F., and Troyan.

Trussell, Clarence D., Turnwood, N. Y. Binder ring opening device. 2,608,700, Sept. 2.

Turboelectric Corporation, assignee: *See*—
Pavlecka, Vladimir H., and Dallenbach.

Turnupseed, Harley E.: *See*—
Turnupseed, Winifred J., and H. E.

Turnupseed, Winifred J., Porterville, and H. E. Turnupseed, Tulare, Calif. Protective system for electrical apparatus connected with polyphase networks. 2,609,425, Sept. 2.

Tyler Fixture Corporation, assignee: *See*—
Steelman, Melvin W.

Tyrseck, Walter, J., assignor to Robertson Paper Box Co., Inc., Montville, Conn. Display container. 2,609,090, Sept. 2.

Udy, Marvin J., Niagara Falls, N. Y., assignor to Guaranty Investment Corporation, Limited, Montreal, Quebec, Canada. Treatment of matte to recover metallic salts. 2,609,272, Sept. 2.

Umberger, Jacob Q., Holmdel, and A. W. Grumbine, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Stripping photographic emulsions. 2,609,290, Sept. 2.

Underwood Corporation, assignee: *See*—
Schroder, Charles.

Union Carbide and Carbon Corporation, assignee: *See*—
Bludeau, Robert E.
Heise, George W., and Fox.
Kay, Jerry W.

Union Oil Company of California, assignee: *See*—
Kantzer, Basil P.
Polly, Orville L.

United Aircraft Corporation, assignee: *See*—
Lee, John G.

United Chromium, Incorporated, assignee: *See*—
Passal, Frank.

United Engineers & Constructors Inc., assignee: *See*—
Haug, John S., and Janeway.

United Shoe Machinery Corporation, assignee: *See*—
Bradley, Robert L.
MacKenzie, Fred T.
Quinn, Edward.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Jacobs, Robert B.
Martin, Marvin D.

United States Gypsum Company, assignee: *See*—
Frost, Orcutt W., and Conover.

United States Rubber Company, assignee: *See*—
Ladd, Elbert C.
Ladd, Elbert C., and Harvey.
Knapp, Robert L., and Schoene.
Martin, Frank S.
Tidd, Elbert De F.

University of Illinois Foundation, The, assignee: *See*—
Norris, John W.

University of Pennsylvania, The, Trustees of The, assignee: *See*—
Ehrenstein, Maxmillian R.

Uraneck, Carl A.: *See*—
Fryling, Charles F., and Uraneck.

Usines Tornos Fabrique de Machines Moutier S. A., assignee: *See*—
Mégel, Guillaume E., and Mancia.

Utley, Arthur B., assignor of one-half to Bowman & Drussa Plumbing and Heating Co., Springfield, Mo. Valve reseating tool. 2,608,805, Sept. 2.

Van Antwerp, Lyle S., Washington, D. C. Wheel shield support. 2,609,218, Sept. 2.
Van Degrift, Thomas C., assignor to General Motors Corporation, Detroit Mich. Unbalance computer. 2,608,856, Sept. 2.
van den Berge, Jan H.: *See*—
Starre, Gerrit and van den Berge.
Van Leuven, Karl, Jr., Hollywood, assignor to Ina Yoakum, Los Angeles, Calif. Brassière connecting element. 2,608,689, Sept. 2.
van Pel, Dorus, assignee: *See*—
Bottemanne, Casper J.
Van Pelt, Isaac E., assignee: *See*—
Moore, Joseph L.
Van Sciver, Earl T., Glenside, Pa., W. J. Van Sciver, Palo Alto, Calif., and E. P. Van Sciver, assignors to Ocean City Mfg. Co., Philadelphia, Pa. Automatic fly reel. 2,609,160, Sept. 2.
Van Sciver, Edwin P.: *See*—
Van Sciver, Earl T., W. J., and E. P.
Van Sciver, Wesley J.: *See*—
Van Sciver, Earl T., W. J., and E. P.
Van Sickle, Elmer, Rocky River, Ohio. Valve mechanism. 2,609,207, Sept. 2.
Van Sweringen, Raymond A., Jr.: *See*—
Morris, Kenneth G., and Van Sweringen.
van Weel, Adelbert, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Push-pull mixing circuit arrangement. 2,609,495, Sept. 2.
van Westen, Hendrik A.: *See*—
Kool, Cornelis M. H., van Weaten, and Hartstra.
Lolkema, Jan, and van Westen.
Vaughn Machinery Company, The, assignee: *See*—
McIlvried, Edwin J.
Nye, Norman H.
Verbanc, John J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Plasticizing rubber. 2,609,404, Sept. 2.
Verbrugge, Joseph J.: *See*—
Kearful, Godfrey G., Verbrugge and Malone.
Vigren, Sten D., and G. E. Gustafsson, Stockholm, Sweden. Telephone apparatus. 2,609,458, Sept. 2.
Vitale, Samuel L., Detroit, Mich. Drying machine having centrifugal units. 2,609,100, Sept. 2.
Vogt, Clarence W., Norwalk, Conn. Sealing of thermoplastic materials. 2,609,317, Sept. 2.
Von Kokeritz, Karl, Staten Island, and R. H. Blackford, Long Beach, N. Y., and B. L. Schwaller, Wayne, Pa., assignors to Durabla Manufacturing Company, New York, N. Y. Check valve. 2,609,175, Sept. 2.
Vos, Donald, Pella, Iowa. Antichafing trailer hitch. 2,609,214, Sept. 2.
Wagner, Curtis R., assignor, by mesne assignments, to Golf Unlimited, Inc., Denver, Colo. Golf practicing machine. 2,608,864, Sept. 2.
Wakefield, George P., Vermilion, Ohio. Canned food server. 2,608,706, Sept. 2.
Wallace, Marcel, assignor, by mesne assignments, of one-half to said Wallace doing business as Panoramic Laboratories, East Port Chester, Conn. Altitude and distance recorder. 2,609,532, Sept. 2.
Waller, Cecil, and H. O. Dickinson, assignors to Ilford Limited, Ilford, England. Light-sensitive photographic element and process using it. 2,609,292, Sept. 2.
War, United States of America as represented by the Secretary of, assignee: *See*—
Early, Harold C.
Guthrie, George B., Jr.
Hollywood, John M.
Jacobsen, Andrew B.
Kunz, William R.
Otis, Eleanor G., and Salisbury.
Warner & Swasey Company, The, assignee: *See*—
Haefliger, Johann.
Warsaw, Arthur J., Anchor, Ill. Dual speed countershaft assembly. 2,608,878, Sept. 2.
Wasserman, Lee S.: *See*—
Stein, Robert A., and Wasserman.
Watson, James D., and S. S. Carlisle, assignors to The British Iron & Steel Research Association, London, England. Device for measuring the thickness of steel plates and the like. 2,609,420, Sept. 2.
Waugh, Dale L., Dayton, Ohio, assignor to The Dayton Rubber Company. Belt. 2,608,874, Sept. 2.
Weaver, Paul, assignor to E. W. Fawkes, Chico, Calif. Combination clothesline and fastening device. 2,609,105, Sept. 2.
Weaver, William B.: *See*—
Samans, Walter A., and Weaver.
Weber, Clarence S., Preston, Ontario, assignor to R. Bullas, Kitchener, Ontario, Canada. Multiple bit tool. 2,609,019, Sept. 2.
Webster, William: *See*—
Salt, Francis E., Webster, and Galitzenstein.
Weggel, Erwin J., Bay City, Mich. Garbage and refuse incinerator. 2,608,943, Sept. 2.
Weinreich, Charles F.: *See*—
Rishol, Alfred H., Weinreich, and Burrell.
Weisberg, Sidney M., Newark, assignor to Allied Electric Products, Inc., Irvington, N. J. Extension cord tap. 2,609,414, Sept. 2.
Weiss, Arthur J., West Englewood, N. J., assignor to Robert Gair Company, Inc., New York, N. Y. Carton and carton blank. 2,609,138, Sept. 2.
Weksel, Eugene G., Brooklyn, N. Y. Cloth notching device. 2,608,758, Sept. 2.
Welch, Lester M., Madison, N. J., assignor to Standard Oil Development Company. Copolymerization of divinyl benzene and isobutylene. 2,609,363, Sept. 2.
Wells Manufacturing Company, assignee: *See*—
Fichtner, Edwin C.
Wentz, Paul L., Fostoria, Ohio. Fishhook. 2,608,791, Sept. 2.
Westbrook, Thomas B., assignee: *See*—
Schultz, Myrtle M.
Western Electric Company, Incorporated, assignee: *See*—
Bennert, Malcolm O., and Moore.
Berggren, George E.
Blair, Harold F.
Cox, Thomas K., and Lyons.
Gambrill, Richard D.
Holcomb, Arthur L., and Leavitt.
Joseph, Jay W.
Rayburn, Vincent A.
Western Foundation Corporation, assignee: *See*—
Burrell, Harold P.
Westinghouse Electric Corporation, assignee: *See*—
Idle, James G.
McCloy, Graham S.
Weston Electrical Instrument Corporation, assignee: *See*—
Erbguth, Paul F. K.
West Point Manufacturing Company, assignee: *See*—
Beall, Charles R.
Granberry, Edgar H.
Weyandt, Carl S., Homer City, and N. C. McKelvy, Blairsville, assignors to Syntron Company, Homer City, Pa. Manually adjustable choke valve. 2,609,173, Sept. 2.
Whalen, Edward A., assignor to Wha-Lite Products, Chicago, Ill. Featheredge. 2,608,852, Sept. 2.
Wha-Lite Products, assignee: *See*—
Whalen, Edward A.
Wheat, Grant, and A. G. Davis, assignors to Koehler Manufacturing Company, Marlboro, Mass. Miner's lamp. 2,608,849, Sept. 2.
Wheat, Grant, and A. G. Davis, assignors to Koehler Manufacturing Company, Marlboro, Mass. Chimney assembly for miners' safety lamps. 2,609,486, Sept. 2.
Wheat, Grant, and A. G. Davis, assignors to Koehler Manufacturing Company, Marlboro, Mass. Magnetic lock for miners' safety lamps. 2,609,487, Sept. 2.
Wheeler, Byrhl F., Balston Spa, N. Y. Electric delayed-impulse valve and switching circuit therefor. 2,608,999, Sept. 2.
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Tunable constant band-width signal-translating stage. 2,609,460, Sept. 2.
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Signal translating arrangement. 2,609,496, Sept. 2.
White, Burlan D., Ellenboro, N. C. Warp clamp. 2,608,742, Sept. 2.
White, James R., Wenonah, O. H. Clark and W. W. Woods, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Lubricant. 2,609,342, Sept. 2.
Whitehead, Robert G., assignee: *See*—
Jackson, Harold F.
Whittaker, Norman: *See*—
Russell, Peter B., and Whittaker.
Wieland, Jacob, assignor to De Vries Robbe & Co. N. V., Arkelschedijk, Gorinchem, Netherlands. Device for imparting a tumbler motion to vertical structural parts. 2,609,196, Sept. 2.
Wilber, Alfred B., Caldwell, Idaho. Gun sling. 2,608,733, Sept. 2.
Wildhaber, Ernest, Brighton, assignor to Gleason Works, Rochester, N. Y. Machine for cutting clutches. 2,608,906, Sept. 2.
Wilkening, Frederick W., Penn Valley, H. G. Braendel, Paoli, and C. F. Engelhardt, Yeadon, assignors to Wilkening Manufacturing Company, Philadelphia, Pa. Piston ring. 2,609,259, Sept. 2.
Wilkening Manufacturing Company, assignee: *See*—
Wilkening, Frederick W., Braendel, and Engelhardt.
Wilkoff, William L., Youngstown, Ohio. Paper cutter. 2,609,047, Sept. 2.
Williams, Paul L., assignor of fifty per cent to Durkee Bakery of Carthage, Inc., Carthage, N. Y. Nestable container. 2,609,120, Sept. 2.
Williamson, Floyd M., Detroit, Mich. Wiper arrangement for mirrors and the like. 2,608,708, Sept. 2.
Willis, Robert D., Del Rio, Tex. Radial engine crankshaft mechanism. 2,608,870, Sept. 2.
Wilmotte, Raymond M., assignor to Padevco, Inc., Washington, D. C. Frequency modulation receiver for overlapping signals. 2,609,493, Sept. 2.
Wilmotte, Raymond M., assignor to Padevco, Inc., Washington, D. C. Frequency modulation system for receiving one of two overlapping waves. 2,609,494, Sept. 2.
Wilmotte, Raymond M., New York, N. Y., assignor to Padevco, Inc., Washington, D. C. Antenna system. 2,609,504, Sept. 2.

Wilmotte, Raymond M., assignor to Padevco, Inc., Washington, D. C. Electronic heating control system. 2,609,510, Sept. 2.
Wilson, Charles D.: *See*—
Kenney, Clarence E., and Wilson.
Wilson, Christopher L., Notre Dame, Ind. Making expanded polyvinyl alcohol-formaldehyde reaction product and product resulting therefrom. 2,609,347, Sept. 2.
Wilson, H. A., Company, The, assignee: *See*—
Mooradian, Victor G.
Wilson-Jones Company, assignee: *See*—
Marano, Herbert W.
Segal, Samuel.
Wilson Refrigeration, Inc., assignee: *See*—
Pusey, Raymond D.
Winkler, De Loss E., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Stabilization of vinyl halide polymers with a composition containing an ester of an unsaturated alcohol. 2,609,355, Sept. 2.
Winslow, Field H.: *See*—
Baker, William O., and Winslow.
Winsten, Walter A., Forest Hills, N. Y., assignor to Schenley Industries, Inc. Purifying Streptomycin. 2,609,369, Sept. 2.
Winter, Charles H., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nonmechanical solids valve. 2,609,249, Sept. 2.
Winter, George W., Crooksville, Ohio. Mercury switch. 2,609,467, Sept. 2.
Winterbauer, Henry T., Arlington Heights, assignor to J. A. Dubow Manufacturing Co., Inc., Chicago, Ill. Ball and making it. 2,609,202, Sept. 2.
Winterhalter, Alfred C., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Seismic exploration apparatus. 2,609,438, Sept. 2.
Wirz, Paul, Berne, Switzerland. Turbine wheel. 2,609,142, Sept. 2.
Wisner, Otto, assignor to Lowell Specialty Company, Lowell, Mich. Conveyer for soldering machines. 2,609,078, Sept. 2.
Wixson, Herbert H., North Hollywood, Calif. Radio and/or television game apparatus. 2,609,204, Sept. 2.
Wolf Electric Tools Limited, assignee: *See*—
Gubbins, Charles H.
Wolff, Ivan A., H. A. Davis, J. E. Cluskey, and L. J. Gundrum, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Production of amylose films. 2,608,723, Sept. 2.
Womack, Samuel H. J.: *See*—
Sontag, Harcourt C., Cordero, and Womack.
Wood, George W., Stephenville, Tex. Fertilizer distributor. 2,609,127, Sept. 2.
Wood, Thomas R.: *See*—
Brink, Norman G., and Wood.
Woodruff, Ben H., Chicago, Ill. Frozen custard machine. 2,608,833, Sept. 2.
Woods, John E., Cohasset, assignor to Standard-Thomson Corporation, Boston, Mass. Refrigerating apparatus. 2,608,832, Sept. 2.
Woods, John P.: *See*—
Raburn, Louis E., and Woods.
Woods, Warren W.: *See*—
White, James R., Clark, and Woods.
Woolley, Charles H., Cranford, assignor to The Babcock & Wilcox Company, Rocklelgh, N. J. Steam generator. 2,608,959, Sept. 2.
Worden, Donald P., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Antenna construction. 2,609,502, Sept. 2.
Wray (Cameras) Limited, assignee: *See*—
Studdert, Maurice E. P.
Wright, Edward F., Jr., Kingston, Tenn. Sensitive pulse amplifier counter. 2,609,511, Sept. 2.
Wright, Howard J.: *See*—
Du Puis, Robert N., and Wright.
Wuertz, Paul P., Melrose, assignor, by mesne assignments, to Minneapolis-Moline Company, Hopkins, Minn. Ball tensioning mechanism. 2,608,930, Sept. 2.
Yoakum, Ina, assignee: *See*—
Van Leuven, Karl, Jr.
York, Raymond A.: *See*—
Tricebock, Donald J., and York.
Young, Clarence P., Bellflower, Calif. Straight bore hydraulic knuckle. 2,609,226, Sept. 2.
Young, David W.: *See*—
Sparks, William J., and Young.
Young, Larry L., New York, N. Y., assignor by mesne assignments, to Padevco, Inc., Washington, D. C. Welding thermoplastic sheets. 2,609,482, Sept. 2.
Youngstown Manufacturing, Incorporated, assignee: *See*—
Schuler, Fred G.
Zademach, Erich R., Hillside, and W. W. Clarke, Summit, assignors to Metalwash Machinery Company, Irvington, N. J. Shaft bearing seal. 2,608,982, Sept. 2.
Zahn, Eric H., Kirkland, Wash. Preformed dental arch. 2,608,760, Sept. 2.
Zaidan, Joseph P., Philadelphia, Pa. Suction brush for cleaning Venetian blinds. 2,608,710, Sept. 2.
Zettel, Joseph H., Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Method and apparatus for opening fibrous agglomerations. 2,609,313, Sept. 2.
Ziegler, Carl, Clementon, N. J., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Halogenation of 2-aminopyrimidines. 2,609,372, Sept. 2.
Ziegler, Ralph B., assignor to Philadelphia Valve Company, Philadelphia, Pa. Distributor control system for liquids. 2,608,988, Sept. 2.
Zimmerschied, Wilford J., Hammond, Ind., and R. C. Arnold, Park Forest, assignors to Standard Oil Company, Chicago, Ill. Alkylation of thiophene. 2,609,375, Sept. 2.
Zoss, Abraham O., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Production of form-stable, rubber-like polyvinyl N-butyl ethers. 2,609,364, Sept. 2.
Zupa, Frank A.: *See*—
Knapp, Harry M., and Zupa.
Zwick, Walter, Huemoz sur Ollon, Switzerland. Infinitely variable gear. 2,608,871, Sept. 2.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Apparatus for preparing masking aprons. W. A. Bihary. Re. 23,542, Sept. 2.

Milking domestic farm animals and for temporarily storing milk and cooling it. G. R. Duncan. Re. 23,544, Sept. 2.

Milking system and apparatus therefor. G. R. Duncan. Re. 23,543, Sept. 2.

LIST OF PLANT INVENTIONS

Rose plant. J. D. Brownell. 1,124. Sept. 2.

Shasta daisy plant. F. G. Read. 1,125, Sept. 2.

LIST OF DESIGN INVENTIONS

Ash tray and cigarette holder, Combined. J. Berriman, Sr. 167,609, Sept. 2.

Basket, Food. R. Bang. 167,605, Sept. 2.

Bed, clothes press, and chest, Combined child's. C. Jackson. 167,632, Sept. 2.

Bottle. H. K. Knight. 167,637, Sept. 2.

Bottle and holder, Combined. P. Garretto. 167,626, Sept. 2.

Bracelet or the like. A. Philippe. 167,653–4, Sept. 2.

Brassière. M. Imershein. 167,631, Sept. 2.

Bridge for ophthalmic mountings. J. J. Rohrbach. 167,657, Sept. 2.

Cabinet, Laundry tub. B. E. Mustee. 167,644, Sept. 2.

Cabinet, Portable radio. R. D. Budlong. 167,613, Sept. 2.

Cabinet, Radio. R. D. Budlong. 167,612, Sept. 2.

Cabinet, Radio. R. D. Budlong. 167,614, Sept. 2.

Cabinet, Radio receiver. R. D. Budlong. 167,615, Sept. 2.

Case, Bottle. A. D. Erickson. 167,622, Sept. 2.

Casing for a piano or similar article. J. Barofsky. 167,606, Sept. 2.

Caster cup or similar article. B. Auer. 167,602–3, Sept. 2.

Chair frame, Tubular lounge. O. Becker. 167,607, Sept. 2.

Chair, Tubular metal arm. O. Becker. 167,608, Sept. 2.

Christmas ornament. M. M. Schrager. 167,660, Sept. 2.

Cigarette stand and holder, Combined. A. C. Kather. 167,635, Sept. 2.

Clothesline and reel unit, Portable. C. J. Cohen. 167,617, Sept. 2.

Comb or the like. J. Bloch. 167,610, Sept. 2.

Control knob. D. W. Coran. 167,618–19, Sept. 2.

Desk. A. P. Brashear, Jr. 167,611, Sept. 2.

Display stand, Card. T. A. Hartman. 167,627, Sept. 2.

Earring or the like. A. Philippe. 167,647–8, Sept. 2.

Fire extinguisher. C. K. Huthsing. 167,630, Sept. 2.

Fishing bait, Artificial. J. Kautzky. 167,636, Sept. 2.

Fly swatter or similar article. N. W. Roop. 167,658, Sept. 2.

Frame of a vulcanizing machine. S. J. Herbert. 167,628, Sept. 2.

Hair dye applicator. J. A. Voss. 167,663, Sept. 2.

Hat body or similar article, Felt. J. D. Mohn. 167,643, Sept. 2.

Icicle highball stirrer and cocktail pick. G. Clare. 167,616, Sept. 2.

Lamp and stand, Combined. F. N. Hollander. 167,629, Sept. 2.

Lighter, Cigarette. H. G. Treiss, Jr. 167,661, Sept. 2.

Necklace or the like. A. Philippe. 167,649–52, Sept. 2.

Ornament for an automobile hood. H. W. Pilkey. 167,655, Sept. 2.

Powder box or the like. A. E. Fischel. 167,625, Sept. 2.

Rack, Watch holding. D. M. Roeder. 167,656, Sept. 2.

Salt dispenser or similar article. M. F. Jaksch. 167,633, Sept. 2.

Sandal. J. F. Feeks. 167,624, Sept. 2.

Sandal or similar article, Lady's. R. T. Wiseman. 167,665, Sept. 2.

Separable coupling for hydraulic lines. R. M. Ulrich. 167,662, Sept. 2.

Smoker's accessory. D. J. O'Connor. 167,646, Sept. 2.

Sponge, Reservoir. P. M. Cullison. 167,620, Sept. 2.

Spoon, Infant's. N. C. Eue. 167,623, Sept. 2.

Spoon or similar article. F. Wagner. 167,664, Sept. 2.

Steering wheel, Automobile. M. F. Baldwin. 167,604, Sept. 2.

Stocking. C. W. Livingston. 167,639–41, Sept. 2.

Stocking, Lady's. K. W. Dippmann. 167,621, Sept. 2.

Stocking, Lady's. N. Judson. 167,634, Sept. 2.

Teapot or similar article. C. H. Newman. 167,645, Sept. 2.

Toy gun. L. Marx. 167,642, Sept. 2.

Vehicle, Child's. J. E. Scanland. 167,659, Sept. 2.

Wrecking bar. R. E. Lee. 167,638, Sept. 2.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article. J. A. Thomas, Jr. 2,609,285, Sept. 2.

Abrasive polishing wheel. H. M. Field. 2,608,804, Sept. 2.

Absorbent-covered furnace. K. K. Kearby. 2,609,060, Sept. 2.

Adjustable friction drive. C. W. Larson. 2,608,872, Sept. 2.

Adjusting and engaging mechanism. G. E. Mégel and H. Mancia. 2,608,879, Sept. 2.

Adjustment device. R. B. Gray. 2,608,873, Sept. 2.

Aerial system. A. B. Pippard. 2,609,505, Sept. 2.

Air and gas cleaner. K. F. Schreier and B. Bartolucci. 2,609,062, Sept. 2.

Air bleed structure for automatically controlling air and fuel ratio in carburetors at varying engine speeds. E. C. Brehob. 2,609,188, Sept. 2.

Aircraft fuel tank. A. G. Cattaneo. 2,609,118, Sept. 2.

Airplane and roadmobile, Tailless convertible. A. J. Gero, Jr. 2,609,167, Sept. 2.

Airplane flap supporting and control mechanism. J. E. Bellam. 2,609,166, Sept. 2.

Alarm device, Electric power failure. D. J. Faltz. 2,609,431, Sept. 2.

Alkyd resins made from a polymerized alcohol and preparation. H. F. Pfann and E. L. Kropa. 2,609,358, Sept. 2.

Alkylation of thiophene. W. J. Zimmerschied and R. C. Arnold. 2,609,375, Sept. 2.

α-aryl-β-alkoxyacrylonitriles and preparing same. P. B. Russell and N. Whittaker. 2,609,384, Sept. 2.

Amido-amide derivatives of dibasic acids and preparing the same. H. B. Goldstein and S. T. Clary. 2,609,381, Sept. 2.

Amido-amide derivatives of oxalic acid and preparing the same. H. B. Goldstein and S. T. Clary. 2,609,380, Sept. 2.

Amines, Production of. P. Davies, P. W. Reynolds, R. R. Coats and A. W. C. Taylor. 2,609,394, Sept. 2.

Amplifier counter, Sensitive pulse. E. F. Wright, Jr. 2,609,511, Sept. 2.

Amplifier, High input impedance transistor. G. Bergson. 2,609,459, Sept. 2.

Amplifier with grounded positive and balanced input circuit, Recorder. F. A. Hester. 2,609,442, Sept. 2.

Amylose films, The production of. I. A. Wolff, H. A. Davis, J. E. Cluskey and L. J. Gundrum. 2,608,723, Sept. 2.

Antenna construction. D. P. Worden. 2,609,502, Sept. 2.

Antenna system. R. M. Wilmotte. 2,609,504, Sept. 2.

Antiskid chain and positioning means. B. H. Locke. 2,609,027, Sept. 2.

Antiskid foot operated bellows. D. T. Mowbray. 2,609,000, Sept. 2.

Apparatus and method for cleaning open hearth stack gases. C. B. Francis. 2,609,063, Sept. 2.

Apparatus and method for handling of liquefied normally gaseous materials. J. S. Haug and P. W. Janeway, Jr. 2,609,282, Sept. 2.

Apparatus for and method of making printing screens. A. C. Cluzel. 2,608,750, Sept. 2.

Apparatus for cleaning filter screens. J. F. King, Jr. 2,609,064, Sept. 2.

Apparatus for continuously making vulcanized articles. G. E. Berggren. 2,608,718, Sept. 2.

Apparatus for drilling deep wells. A. Arutunoff. 2,609,182, Sept. 2.

Apparatus for handling finely divided solid materials. C. E. Kleiber. 2,609,248, Sept. 2.

Apparatus for inserting closures in containers. D. Kirk. 2,608,918, Sept. 2.

Apparatus for making thermal insulated pipe. A. H. Isenberg. 2,608,754, Sept. 2.

Apparatus for measuring velocity. R. A. Ramey and W. Soller. 2,608,860, Sept. 2.

Apparatus for peeling tomatoes. M. W. Lowe. 2,609,022, Sept. 2.

Apparatus for producing paper. H. M. Davis. 2,608,912, Sept. 2.

Apparatus for sealing dielectric materials. H. Hacklander. 2,609,481, Sept. 2.

Apparatus for securing a closure supporting ring in the end of a receptacle body. A. Merkle. 2,608,914, Sept. 2.

Apparatus for sorting heavy bars. T. K. Graham and C. P. Etterer. 2,609,095, Sept. 2.

Apparatus for supporting cores in toroidal coil winding machines. M. O. Bennert and N. C. Moore. 2,608,892, Sept. 2.

Apparatus for testing and sorting thin rubber goods. C. H. Fry. 2,609,094, Sept. 2.

Apparatus for testing connectors for leakage. R. D. Gambrill. 2,608,854, Sept. 2.

Apparatus for the liquid treatment of yarns and the like. H. P. Fry, Jr. 2,608,850, Sept. 2.

Apparatus for vulcanizing a repair area of a pneumatic tire. L. F. Borda and S. W. Bile. 2,609,477, Sept. 2.

Armored rail bond. H. H. Febrey. 2,609,147, Sept. 2.

Arrangement for and method of transferring heat and cold from and to machine parts. K. Haase and W. Ostwald. 2,608,963, Sept. 2.

Article handling machine. G. J. Peterson and C. J. Smith. 2,609,108, Sept. 2.

Articulator. J. E. Scott. 2,608,761, Sept. 2.

Asphalt coated aggregate, Preparing. J. C. Roediger. 2,609,305, Sept. 2.

Assembling resilient bearings. P. C. Hutton. 2,608,751, Sept. 2.

Atomizer. R. C. Seyforth. 2,609,234, Sept. 2.

Attachment for bathtubs. K. L. Hansen. 2,608,693, Sept. 2.

Aureomycin, Producing. J. G. Niedercorn. 2,609,329, Sept. 2.

Automatic dehydration apparatus for cereals. W. A. Noel. 2,608,768, Sept. 2.

Automatic drift for boring mill spindles. G. E. Morse and J. K. Allbright. 2,608,886, Sept. 2.

Automatic flow control system for ore concentrators. E. C. Bitzer. 2,609,096, Sept. 2.

Automatic fly reel. E. T., W. J. and E. P. Van Selver. 2,609,160, Sept. 2.

Automatic Pittsburgh lock seam sealer. M. Troop. 2,609,028, Sept. 2.

Automatic resetting overload switch. A. Goldsmith. 2,609,465, Sept. 2.

Automatic shutoff fuel valve. J. L. Cahill. 2,608,984, Sept. 2.

Automatic shutoff valve. H. J. Criner. 2,608,998, Sept. 2.

Automatic tuning control. J. M. Hollywood. 2,609,496, Sept. 2.

Automatic vertically pivoted gate. L. O. Mott. 2,608,775, Sept. 2.

Automatically releasable flank strap fastener. C. B. Hutchings. 2,608,812, Sept. 2.

Automobile jack. G. E. Hughes. 2,609,177, Sept. 2.

Automobile seat spring. M. Stubnitz. 2,609,036, Sept. 2.

Azeo-extractive distillation. J. H. Boyd. 2,609,333, Sept. 2.

Azeotropic distillation of propionamide. W. M. Bruner and E. T. Darden. 2,609,336, Sept. 2.

Baby walker. C. C. Stack. 2,609,030, Sept. 2.

Backsplashers for electric ranges, Illuminated. H. E. Ackemann. 2,609,476, Sept. 2.

Backsplashers for electric ranges, Illuminated. R. C. Sandin and T. M. Steinbach. 2,609,475, Sept. 2.

Backstop mechanism for bowling pin spotting machines. R. E. Rundell. 2,609,200, Sept. 2.

Ball tensioning mechanism. P. P. Wuertz. 2,608,930, Sept. 2.

Balance controls for metal detectors. D. J. Tricebock and R. A. York. 2,609,530, Sept. 2.

Ball and making it. H. T. Winterbauer. 2,609,202, Sept. 2.

Ball bearing. W. O. Baker and F. H. Winslow. 2,609,256, Sept. 2.

Bar: *See*—
Grate bar.

Bar feed vibration dampener. B. C. Harney. 2,608,746, Sept. 2.

Bar feeder. B. Gray and G. S. Cleghorn. 2,609,107, Sept. 2.

Base electrodes for semiconductor devices. H. B. Law. 2,609,428, Sept. 2.

Battery cell inspecting and testing system. W. H. Radeke. 2,609,409, Sept. 2.

Beacon, Radio. P. B. Taylor. 2,609,534, Sept. 2.

Beam amplifier tube. N. Z. Ballantyne. 2,609,515, Sept. 2.

Bearing: *See*—
Ball bearing.

Bearing construction. E. M. Brown. 2,609,253, Sept. 2.

Beater for flailing machines, Flexible. J. Lembke. 2,608,816, Sept. 2.

Belt. D. L. Waugh. 2,608,874, Sept. 2.

Bending mold locating device. E. W. Babcock. 2,608,799, Sept. 2.

Beverage cooler. P. K. Leland. 2,608,837, Sept. 2.

Bicycle wheel brace. C. R. Rothe and J. D'Esposito. 2,609,091, Sept. 2.

Billfold. A. A. Tolbert. 2,609,025, Sept. 2.

Bin, Self-unloading. H. R. Schemm. 2,609,125, Sept. 2.
Binder ring opening device. C. D. Trussell. 2,608,700, Sept. 2.
Blade injector and blade disposal device for injector type razors. J. C. Fennelly. 2,608,755, Sept. 2.
Blouse holder. E. Berg. 2,608,691, Sept. 2.
Board: *See*—
Outer board.
Boat reversing mechanism for outboard motors. J. R. Hoover. 2,608,946, Sept. 2.
Bonding machine with oscillator keying control. E. B. Snyder. 2,609,480, Sept. 2.
Bottle carrier. E. C. Medill and F. P. Hewitt. 2,609,227, Sept. 2.
Bowling game, Simulated. F. J. Bula. 2,609,203, Sept. 2.
Box stacking mechanism. B. R. Daves and W. L. Irvine. 2,609,111, Sept. 2.
Brake: *See*—
Jet airfoil brake.
Brake. E. R. Ross. 2,609,066, Sept. 2.
Brake lever assembly, Straight pull. R. A. Sandberg. 2,608,881, Sept. 2.
Brake shoe bonding machine. H. B. Barrett. 2,609,310, Sept. 2.
Brassière connecting element. K. Van Leuven, Jr. 2,608,689, Sept. 2.
Bread wrapping machine. B. Stern. 2,608,811, Sept. 2.
Bright copper plating from cyanide baths. F. Passal. 2,609,339, Sept. 2.
Bright, stable, and lightproof sulfonamide resins, Manufacture of. E. B. Bengtsson. 2,609,356, Sept. 2.
Brush element and manufacture. B. E. Nelson. 2,609,242, Sept. 2.
Brush for cleaning Venetian blinds, Suction. J. P. Zaidan. 2,608,710, Sept. 2.
Brush-making machine. M. J. First. 2,609,241, Sept. 2.
Burling tool. D. J. Mindheim. 2,608,698, Sept. 2.
Burner: *See*—
Pot type oil burner.
Burnishing machine. C. C. Kinker and J. J. Murtagh. 2,608,803, Sept. 2.
Cabinet: *See*—
Dentifrice cabinet.
Cabinet, and means to illuminate an object in front thereof, Mirrored. L. E. Holley. 2,609,485, Sept. 2.
Cable clamp. T. Summers. 2,608,731, Sept. 2.
Cable holder with guide slots. E. E. Haussler. 2,608,891, Sept. 2.
Calcium phosphates and calcium nitrate, Production of. M. H. R. J. Plusje. 2,609,271, Sept. 2.
Cam grinding machine. E. R. Fausset and M. E. Todd. 2,608,802, Sept. 2.
Camera. H. J. Smith. 2,608,920, Sept. 2.
Camera with curtain shutter, Reflex. M. E. P. Studdert. 2,608,921–2, Sept. 2.
Canned food server. G. P. Wakefield. 2,608,706, Sept. 2.
Canopy, Automobile. J. C. Chamberlain. 2,609,042, Sept. 2.
Cap transfer mechanism for drying ovens. E. A. Tesch, Jr. 2,609,106, Sept. 2.
Capacitor control. W. H. Elliot. 2,609,424, Sept. 2.
Car: *See*—
Shuttle car.
Carbamate of 3-ortho-toloxy-1,2-propanediol. W. A. Lott and E. Pribyl. 2,609,386, Sept. 2.
Carbocyanine dyes. J. C. Firestine. 2,609,371, Sept. 2.
Carbohydrate processes. K. M. Gaver. 2,609,368, Sept. 2.
Carburetor. H. T. Scott. 2,609,187, Sept. 2.
Carrier: *See*—
Bottle carrier. Hose carrier.
Carton. P. A. Toensmeier. 2,609,137, Sept. 2.
Carton and carton blank. A. J. Weiss. 2,609,138, Sept. 2.
Carton folding mechanism R. J. Hickin. 2,608,916, Sept. 2.
Cartridge belt assembly tool. W. R. Kunz. 2,608,900, Sept. 2.
Case: *See*—
Portable accessory case.
Case unloader. E. Ardell. 2,609,109, Sept. 2.
Cast wheel of rolling stock. F. C. Paynter. 2,609,229, Sept. 2.
Caterpillar drive chain. J. E. McBride and W. G. Boehm. 2,609,086, Sept. 2.
Cathode-ray tube. J. R. Pierce. 2,609,520, Sept. 2.
Cavity resonator. E. G. Otis and W. W. Salisbury. 2,609,449, Sept. 2.
Chain: *See*—
Caterpillar driven chain.
Chair: *See*—
Rail chair.
Chair. C. J. Barecki. 2,609,034, Sept. 2.
Chair with automatically shiftable seat and adjustable back. R. A. Cramer. 2,609,032, Sept. 2.
Check valve. K. Von Kokeritz, R. H. Blackford, and B. L. Schwaller. 2,609,175, Sept. 2.
Chimney assembly for miners' safety lamps. G. Wheat and A. G. Davis. 2,609,486, Sept. 2.
Chlorinated polychloroprene latex. G. W. Scott. 2,609,365, Sept. 2.
Chuck. E. Perman. 2,609,209, Sept. 2.
Cigarillo machine. L. Ferenci. 2,608,974, Sept. 2.
Cinematographic matte film and making it. L. B. Prentice. 2,609,294, Sept. 2.
Cinnamyl quaternary ammonium compounds. F. S. Crossley. 2,609,392, Sept. 2.
Circuit: *See*—
Electrical differentiating circuit. Selecting and lockout circuit.
Pulse width discriminator circuit. Voltage regulator circuit.
Circuit arrangement, Push-pull mixing. A. van Weel. 2,609,495, Sept. 2.
Circuit breaker, Reclosing. A. Conangla. 2,609,421, Sept. 2.
Circuit for perforators, Electronic control. R. D. Slayton. 2,609,444, Sept. 2.
Circuit for recorders, Electronic control. R. D. Slayton. 2,609,445, Sept. 2.
Circulation inducing device for return water connection in heating boilers. J. A. Rydberg. 2,608,956, Sept. 2.
Clad beryllium-copper alloys. V. G. Mooradian. 2,608,753, Sept. 2.
Clamp: *See*—
Cable clamp. Yarn clamp.
Warp clamp.
Clamp for stringing rackets. E. H. Serrano. 2,608,737, Sept. 2.
Clamp having a swiveled traction connection. W. Killius. 2,608,730, Sept. 2.
Clasp, Necktie. W. H. Meeker. 2,608,729, Sept. 2.
Cleaner: *See*—
Air and gas cleaner. Windshield cleaner.
Golf ball cleaner.
Cleaning cupreous articles. C. J. Snyder and W. G. MacLelland. 2,608,980, Sept. 2.
Clinker cooling. E. Posselt. 2,609,149, Sept. 2.
Closure. R. G. Miller. 2,609,117, Sept. 2.
Cloth notching device. E. C. Weksel. 2,608,758, Sept. 2.
Clothesline and fastening device, Combination. P. Weaver. 2,609,105, Sept. 2.
Clutch control mechanism. R. E. Boyden and E. P. Drake. 2,609,145, Sept. 2.
Coated abrasive article and making. L. R. Nestor. 2,609,284, Sept. 2.
Coil spring and coil spring assembly, including the support for such springs. B. Lermont. 2,609,192, Sept. 2.
Coil winding apparatus. J. La Cesa. 2,609,163, Sept. 2.
Coin wrapping device. H. Smathers. 2,608,810, Sept. 2.
Cold pressure welding. A. B. Sowter. 2,608,887, Sept. 2.
Cold water dispersible starch product and preparing the same. W. W. Pigman, R. W. Kerr, and N. F. Schink. 2,609,326, Sept. 2.
Collector ring mount. J. R. Moorehead and R. S. Reinhold. 2,608,819, Sept. 2.
Color control for electric bread toasters. H. L. Olson and R. A. Miller. 2,609,473, Sept. 2.
Comb, Compartment. W. J. Martino. 2,608,979, Sept. 2.
Comb, Finger. M. A. Shannon. 2,608,975, Sept. 2.
Comb guard for electric shavers. I. Jepson. 2,608,756, Sept. 2.
Combustion apparatus using compressed air. D. Aronson. 2,609,040, Sept. 2.
Combustion engine cylinder head casing. G. Pielstick. 2,608,965, Sept. 2.
Composite photographic product comprising a photosensitive element and a container carrying a liquid for processing said element. E. H. Land. 2,609,296, Sept. 2.
Composition of matter for making artificial lumber. G. M. Harris. 2,609,303, Sept. 2.
Compounds with the carbon skeleton of beta-carotene and the manufacture thereof. H. H. Inhoffen and H. Pommer. 2,609,396, Sept. 2.
Compressor. E. M. J. Lepicard. 2,608,932, Sept. 2.
Compressor, Centrifugal. G. Aue. 2,609,141, Sept. 2.
Compressor with auxiliary bladewheel, Radial. F. Jonker. 2,609,140, Sept. 2.
Computer for addition and subtraction, Electronic. G. R. Stibitz. 2,609,143, Sept. 2.
Computer, Unbalance. T. C. Van Degrift. 2,608,856, Sept 2.
Concrete form lining material. O. W. Frost and J. H. Conover. 2,608,911, Sept. 2.
Condenser: *See*—
Electrolytic condenser.
Connector: *See*—
Electric connector.
Constant tension control. W. Reeves. 2,608,741, Sept. 2.
Contacting of immiscible liquids. T. L. McNamara. 2,609,277, Sept. 2.
Container: *See*—
Dispensing and atomizing container. Lipstick container.
Display container. Nestable container.
Container. D. I. McKenzie. 2,609,135, Sept. 2.
Continuous furnace. E. W. Dany. 2,608,740, Sept. 2.
Continuous process for penicillin production. P. J. Kolachov and W. C. Schneider. 2,609,327, Sept. 2.
Continuously cleaning and separating minerals of different settling rates, Method of and apparatus for. C. W. Lotz. 2,609,098, Sept. 2.
Contrarotating turbojet engine having independent bearing supports for each trurbocompressor. E. L. Hunsaker. 2,608,821, Sept. 2.
Control apparatus. F. R. Fitzgerald. 2,609,183, Sept. 2.

Control system for gyro verticals. S. Kellogg, II, R. F. Hays, Jr., and C. E. Barkalow. 2,608,867, Sept. 2.
Control valve. H. Kirkham. 2,608,824, Sept. 2.
Control valve. J. P. C. Raven. 2,608,997, Sept. 2.
Controllable pitch propeller. A. H. Lockheed. 2,609,050, Sept. 2.
Controlled discharge foam nozzle. J. Faulkner and A. Toth. 2,609,240, Sept. 2.
Controlling means for power-operated machines. F. T. McKenzie. 2,608,702, Sept. 2.
Conversion of carbonaceous materials into a fuel gas. J. C. Kalbach. 2,609,283, Sept. 2.
Conveyer drive control. F. A. Terhune. 2,609,085, Sept. 2.
Conveyer, Flight. H. W. Hapman. 2,609,081, Sept. 2.
Conveyer for powdered material, Pressurized. H. W. Hapman. 2,609,250, Sept. 2.
Conveyer for soldering machines. O. Wisner. 2,609,078, Sept. 2.
Conveyer, Hook. J. M. Leach. 2,609,082, Sept. 2.
Conveyer, Longitudinally and transversely adjustable. A. D. Brent. 2,609,076, Sept. 2.
Cooler: *See*—
Beverage cooler. Side opening milk cooler.
Cooling system for internal-combustion engines. H. H. Albinson. 2,608,961, Sept. 2.
Copolymerization of divinyl benzene and isobutylene. L. M. Welch. 2,609,363, Sept. 2.
Copolymers of a polyene, an alkene, and an olefinically unsaturated aromatic hydrocarbon. W. J. Sparks and D. W. Young. 2,609,359, Sept. 2.
Corner forming tool. G. F. Schrepper. 2,608,853, Sept. 2.
Corrosion inhibitor for heat exchangers and the like. R. E. and E. F. McMahon. 2,609,340, Sept. 2.
Countershaft assembly, Dual speed. A. J. Warsaw. 2,608,878, Sept. 2.
Coupling: *See*—
Warp beam coupling.
Course or condition maintenance. L. F. Falkenstein. 2,609,526, Sept. 2.
Cover: *See*—
Ironing board cover. Wheel cover.
Split engine cover.
Cover for paint in opened paint cans. D. E. Shilstone. 2,609,119, Sept. 19.
Cover for toilet seat lids. R. G. McCamy. 2,608,694, Sept. 2.
Cradle invert subsoil drainage pipe. D. B. Dimick. 2,608,828, Sept. 2.
Crankshaft main journal grinder. F. R. Henderson. 2,608,806, Sept. 2.
Craze resistant resinous coating, coated product, and making it. D. G. Patterson. 2,609,321, Sept. 2.
Crib rocking mechanism. B. Condemi. 2,608,697, Sept. 2.
Cultivator. E. Meidinger. 2,608,925, Sept. 2.
Cup for use by infants and invalids such as chair and bedridden patients, Drinking. W. W. Rice. 2,608,841, Sept. 2.
Curler, Hair. N. L. Solomon. 2,608,978, Sept. 2
Cutter: *See*—
Paper cutter. Twisted selvage cutter.
Cutter for onions and the like. W. S. Fuld. 2,609,023, Sept. 2.
Cylinder for air-cooled combustion engines, Working. R. Kloss, E. G. Engels and P. Combichen. 2,608,962, Sept. 2.
Cylindrical absorptive fibrous body and the manufacture thereof. J. Goldman. 2,608,901, Sept. 2.
Deferred action type gas depolarized dry cell having prolonged shell life. G. W. Heise and R. P. Fox. 2,609,408, Sept. 2.
Defroster. M. M. Schultz. 2,609,472, Sept. 2.
Delimiting appliance for closures. J. L. Moore. 2,608,711, Sept. 2.
Demountable casting plug. J. S. Stone. 2,608,789, Sept. 2.
Dental arch, Preformed. E. H. Zahn. 2,608,760, Sept. 2.
Dentifrice cabinet. P. J. stenerson. 2,609,122, Sept. 2.
Denture modeling articulator. M. R. Fox. 2,608,762, Sept. 2.
Derrick. E. L. Alexander. 2,609,180, Sept. 2.
Detector for warp stop motion. W. A. Blanchard. 2,609,011, Sept. 2.
Device comprising an alternating current generator having permanent field magnets. M. F. Reijnst and R. H. de Beer. 2,609,528, Sept. 2.
Device for attaching auxiliary wheels to tractors. L. B. Carter. 2,609,247, Sept. 2.
Device for automatically stopping warp knitting and similar machines for making mesh goods in case of rupture of threads. E. Selbert. 2,608,846, Sept. 2.
Device for handling butter and like materials. A. H. Rishoi, C. F. Weinreich and L. Burrell. 2,608,759, Sept. 2.
Device for imparting a tumbler motion to vertical structural parts. J. Wieland. 2,609,196, Sept. 2.
Device for measuring the thickness of steel plates and the like. J. D. Watson and S. S. Carlisle. 2,609,420, Sept. 2.
Device for setting golf balls and tees. V. C. Armstrong. 2,609,198, Sept. 2.
Device for viewing pictures. O. R. Nemeth. 2,608,903, Sept. 2.
Discontinuously physically developing latent photographic images. R. J. H. Alink, C. J. Dippel and H. J. Houtman. 2,609,295, Sept. 2.
Dishwashing apparatus having a propeller and a fluid deflecting baffle associated therewith. J. G. Idle. 2,608,983, Sept. 2.
Dishwashing apparatus of the gear-driven rotary brush type. D. O. Semel. 2,608,704, Sept. 2.
Dishwashing machine. O. V. Jackson. 2,608,981, Sept. 2.
Dispenser: *See*—
Doughnut dough dispenser.
Dispenser for canned liquids, Puncturing. H. M. Evans. 2,609,121, Sept. 2.
Dispensing and atomizing container. L. D. Reimann. 2,609,235, Sept. 2.
Display container. W. J. Tyrseck. 2,609,090, Sept. 2.
Distillation of liquid mixtures containing aldehydes and cobalt. A. W. C. Taylor and N. Ackroyd. 2,609,337, Sept. 2.
Distributor control system for liquids. R. B. Ziegler. 2,608,988, Sept. 2.
Dodecyl, dimethyl, cinnamyl-ammonium halides. F. S. Crossley. 2,609,393 Sept. 2.
Door. E. T. Ball. 2,608,727, Sept. 2.
Door catch, Magnetic. C. E. Schultz. 2,609,221, Sept. 2.
Doorknob with bottle opener. P. Krupin. 2,608,889, Sept. 2.
Door latch and adjustable keeper. A. R. Mitchell. 2,609,224 Sept 2.
Double toggle gasket. W. C. Frehse. 2,609,070, Sept 2.
Doughnut dough dispenser. E. H. Nagel and A. O. Hubbell. 2,608,940, Sept. 2.
Drawer pull. R. C. Seyforth. 2,608,712, Sept. 2.
Drier. C. S. O'Neil. 2,608,769, Sept. 2.
Drill guide for door lock recesses. H. L. Griffith. 2,609,021, Sept. 2.
Dry ice manufacture. W. H. Rupp. 2,608,838, Sept. 2.
Drying machine having centrifugal units. S. L. Vitale. 2,609,100, Sept. 2.
Duck call, Variable tone. L. Bicocchi. 2,608,796, Sept. 2.
Dynamometer, Spindle testing. E. H. Granberry. 2,608,858, Sept. 2.
Electric actuating device. J. A. Hassan. 2,609,463, Sept. 2.
Electric connector. G. B. Benander and G. R. Lawson. 2,609,415, Sept. 2.
Electric connector. H. D. Cousins. 2,609,416, Sept. 2.
Electric control system. C. E. Greene. 2,609,524, Sept. 2.
Electric high-frequency generator. L. Dreyfus. 2,609,412, Sept. 2.
Electric motor driven jig-saw unit. T. R. Bush. 2,609,016, Sept. 2.
Electric protection means for looms. W. A. Blanchard. 2,609,010, Sept. 2.
Electrical apparatus for vacuum measurement. F. H. Townsend. 2,609,423, Sept. 2.
Electrical differentiating circuit. L. H. Bedford and L. Jofeh. 2,609,448, Sept. 2.
Electrical measuring system. A. B. Jacobsen. 2,609,533, Sept. 2.
Electrical testing apparatus. B. C. Hill and R. R. Stone. 2,609,509, Sept. 2.
Electrically driven portable appliance. C. H. Gemmill. 2,609,525, Sept. 2.
Electrically heated appliance and stand therefor. C. A. Crawford and A. Miller. 2,609,478, Sept. 2.
Electrodeposition of cadmium-tin alloy. R. D. Gray, Jr., and W. A. Faecht. 2,609,338, Sept. 2.
Electrolytic condenser. R. D. Bügel. 2,609,426, Sept. 2.
Electromagnetic sound recorder and reproducer. L. Thurm. 2,609,457, Sept. 2.
Electron discharge device. J. W. Dawson. 2,609,497, Sept. 2.
Electron discharge tube having a disk-shaped cathode. C. P. Klöpping. 2,609,518, Sept. 2.
Electronic frequency eliminating apparatus. W. C. Michels. 2,609,446, Sept. 2.
Electronic heating control system. R. M. Wilmotte. 2,609,510, Sept. 2.
Elevator apparatus. J. G. McKenzie. 2,609,112, Sept. 2.
Emulsion polymerization in systems containing an organic hydroperoxide. C. F. Fryling and C. A. Uraneck. 2,609,362, Sept. 2.
Engine: *See*—
Opposed piston engine.
Sliding abutment type rotary internal-combustion engine.
Engine starter control apparatus. P. L. Schneider, W. H. Taylor and H. J. Cromwell. 2,609,514, Sept. 2.
Engine with supercharger driven by an exhaust turbine, Internal-combustion. T. Shelley and N. H. Kent. 2,608,818, Sept. 2.
Expanded polyvinyl alcohol-formaldehyde reaction product and product resulting therefrom, Making. C. L. Wilson. 2,609,347, Sept. 2.
Extension cord tap. S. M. Weisberg. 2,609,414, Sept. 2.
Eye protection device. C. A. Ellis. 2,608,687, Sept. 2.
Fabric: *See*—
Stiffened woven fabric.

Fabric edge-folding and pressing machine. D. Goldberg. 2,609,129, Sept. 2.
Failing-film fractionation. C. Pyle and J. A. Lane. 2,609,334, Sept. 2.
Fan, Two-speed engine cooling. H. M. Geyer and H. Carson. 2,609,054, Sept. 2.
Fastener: *See*—
Automatically releasable flank strap fastener.
Faucet. A. M. Moen. 2,609,205, Sept. 2.
Faucet, Mixing. A. M. Moen. 2,609,206, Sept. 2.
Feed control for hammer mills. T. M. Moore. 2,609,153, Sept. 2.
Feed mechanism for pressure cookers. A. R. Thompson. 2,609,079, Sept. 2.
Feeder: *See*—
Bar feeder.
Feeder means for hay balers. L. A. Paradise and J. H. Berry. 2,608,929, Sept. 2.
Fertilizer distributor. G. W. Wood. 2,609,127, Sept. 2.
Fertilizer spreader. L. A. Bergstrom. 2,609,124, Sept.
Fertilizers. K. H. Hennenberger. 2,609,287, Sept. 2.
Fetheredge. E. A. Whalen. 2,608,852, Sept. 2.
Film reeling assembly. R. C. Bradley. 2,609,158, Sept. 2.
Filter including automatic reconditioning device. E. H. Howland and R. G. Tessmer. 2,609,101, Sept. 2.
Fishhook. P. L. Wentz. 2,608,791, Sept. 2.
Fishhook construction with pull actuated release means. P. J. Schwartz. 2,608,786, Sept. 2.
Fishhook releaser. J. K. Hall. 2,608,785, Sept. 2.
Fish lure. E. L. Krogue. 2,608,787, Sept. 2.
Fish lure. R. J. McFarland. 2,608,790, Sept. 2.
Fish lure of the swimming type, Darting. W. F. Niemi. 2,608,788, Sept. 2.
Fishing rod wrapping device. B. S. Fosnaugh. 2,609,155, Sept. 2.
Fishing tip-up signal. F. O. Rogers. 2,608,783, Sept. 2.
Flap positioning control system. R. F. Hill. 2,609,165, Sept. 2.
Flashback arrester. E. H. Smith. 2,609,281, Sept. 2.
Flashover indicator. K. R. Steen. 2,609,432, Sept. 2.
Flavoring material for baked farinaceous goods and manufacturing baked farinaceous goods. G. W. Kirby. 2,609,298, Sept. 2.
Flexible electric heater. P. Loewe. 2,609,479, Sept. 2.
Flexible tubing. W. E. Meissner. 2,609,002, Sept. 2.
Flexible unwoven fabric, Making. P. Modigliani. 2,609,320, Sept. 2.
Floater lock chamber. A. Černocký. 2,608,827, Sept 2.
Flotation machine. R. Dering. 2,609,097, Sept. 2.
Flow control valve. R. A. Arthur. 2,608,985, Sept. 2.
Fluid flow control valve. W. T. Stephens. 2,608,986, Sept. 2.
Fluid friction reducer. P. Kollsman. 2,609,139, Sept. 2.
Fluid sampling equipment. H. B. Breedlove and H. G. Abbott. 2,608,866, Sept. 2.
Folding extensible table. B. F. Hager. 2,609,263, Sept. 2.
Folding machine. C. Hess. 2,608,917, Sept. 2.
Food package. F. W. Lindsey. 2,609,301, Sept. 2.
Food preparing device. J. A. Russ. 2,609,024, Sept. 2.
Footrest, Invalid's. A. H. Jones. 2,609,035, Sept. 2.
Fork structure for lift trucks and hoists. L. D. Huffman. 2,609,113. Sept. 2.
Form-stable, rubberlike polyvinyl N-butyl ethers, Production of. A. O. Zoss. 2,609,364. Sept. 2.
Forming and utilizing electron-beams of noncircular cross section. L. E. Flory. 2,609,516, Sept. 2.
Foundation structure. H. P. Burrell. 2,608,830, Sept. 2.
Fractional distillation process and apparatus. K. C. D. Hickman. 2,609,335, Sept. 2.
Frame: *See*—
Ornamented ophthalmic frame.
Frequency discriminator. R. P. Graef. 2,609,447, Sept. 2.
Frequency meter. H. Conviser. 2,609,512, Sept. 2.
Frequency modulation receiver for overlapping signals. R. M. Wilmotte. 2,609,493, Sept. 2.
Frequency modulation system for receiving one of two overlapping waves. R. M. Wilmotte. 2,609,494, Sept. 2.
Frozen custard machine. B. H. Woodruff. 2,608,833, Sept. 2.
Fuel mixing device. A. D. Cremean. 2,609,280, Sept. 2.
Fuel, Turbojet. K. G. Morris and R. A. Van Sweringen, Jr. 2,609,279, Sept. 2.
Furnace: *See*—
Absorbent-covered furnace. Continuous furnace.
Furnace with door latching means and combustion gas by-pass controlled thereby. J. W. Norris. 2,608,944, Sept. 2.
Furniture. L. E. Himelreich. 2,609,266, Sept. 2.
Garment, Outer. P. C. Kolb and E. A. Byrne. 2,608,690, Sept. 2.
Gate: *See*—
Automatic vertically pivoted gate.
Gate latch. W. B. Adams. 2,609,223, Sept. 2.
Gauge. W. Ames. 2,608,947, Sept. 2.
Gauge for circular form tools, Scribing and inspecting. H. R. and H. J. Somma 2,608,764, Sept. 2.
Gauge for cone tipped tools. G. E. Hall. 2,608,767, Sept. 2.
Gear: *See*—
Infinitely variable gear.
Gear for route or destination indicators, Driving. G. Hayes. 2,608,882, Sept. 2.
Gearing for tractors, Travel-speed reduction. A. C. Howard. 2,608,877, Sept. 2.
Generator: *See*—
Electric high-frequency Mobile steam generator.
generator.
Generator drive for railway vehicles. E. J. Schmidt. 2,608,936, Sept. 2.
Glare screen. J. D. Ryan and P. T. Mattimoe. 2,609,269, Sept. 2.
Glass valve. R. Forman. 2,608,996, Sept. 2.
Glue-spotting apparatus. F. G. Pasotti. 2,608,949, Sept. 2.
Glue-spotting containers, Method and apparatus for. F. G. Pasotti. 2,609,306, Sept. 2.
Golf ball cleaner. J. R. Duff. 2,608,705, Sept. 2.
Golf practicing machine. C. R. Wagner. 2,608,864, Sept. 2.
Golf putting game device. R. F. Koener. 2,609,199, Sept. 2.
Grate bar. C. M. Hazelton. 2,608,958, Sept. 2.
Grinder, Precision hole. A. Nilsen and K. Rohrer. 2,608,807, Sept. 2.
Ground working implement, Dual purpose. R. B. Laird. 2,608,772, Sept. 2.
Guide for hypodermic syringes. K. V. Chrigström. 2,608,972, Sept. 2.
Gum reaction product and processes. K. M. Gaver, E. P. Lasure and L. M. Thomas. 2,609,367, Sept. 2.
Gun sling. A. B. Wilber. 2,608,733, Sept. 2.
Gyro vertical. W. T. Buhl. 2,608,868, Sept. 2.
Gyro vertical, Inclined. H. H. Thompson. 2,608,869, Sept. 2.
Hair dyeing apparatus. L. O. and I. T. Kittle. 2,608,976, Sept. 2
Halogenation of 2-aminopyrimidines. C. Ziegler. 2,609,372, Sept. 2.
Handle: *See*—
Saw handle.
Handle for toothbrushes, Adjustable. F. R. Haupt. 2,609,251, Sept. 2.
Hanger: *See*—
Motor driven lamp hanger. Skirt hanger.
Hardward attachment. E. H. McLaughlin. 2,609,069, Sept. 2.
Harmonica. A. La Paglia. 2,608,898, Sept. 2.
Harvesting and threshing machine, Pea. B. C. Coons. 2,608,973, Sept. 2.
Hat shaping apparatus. C. H. Marris. 2,609,128, Sept. 2.
Heat converter, Solar. M. H. Moseley. 2,608,968, Sept. 2.
Heat exchanger. M. Frenkel. 2,609,184, Sept. 2.
Heater: *See*—
Flexible electric heater. Water heater.
High-back heel structure for seamless hose and method. R. A. Torgersen. 2,608,847, Sept. 2.
High-speed contactor. A. L. Holcomb and M. A. Leavitt. 2,609,461, Sept. 2.
Hinge, Friction-catch. S. Soss. 2,608,713, Sept. 2.
Hinge structure. J. O. Howard. 2,608,714, Sept. 2.
Hoist control. R. L. Jaeschke. 2,609,181, Sept. 2.
Holder: *See*—
Blouse holder. Swab holder.
Key holder. Welding rod holder.
Magnetic work holder.
Honeycomb core material, Making. H. C. Engel, W. W. Troxell and T. P. Pajak. 2,609,315, Sept. 2.
Hook: *See*—
Pintle hook. Snap hook.
Hose carrier. H. B. Crawford. 2,609,231, Sept. 2.
Hotbed. H. R. Rawson. 2,608,797, Sept. 2.
Hub structure. L. H. Ponnequin. 2,609,243, Sept. 2.
Hydraulic brake system. R. Blafield. 2,609,067, Sept. 2.
Hydraulic control apparatus for adjusting and locking mechanism. H. F. Silver and C. R. Steele. 2,608,823, Sept. 2.
Hydraulic jack. T. A. Cheesman. 2,608,825, Sept. 2.
Hydraulic starter, A. C. Jenny. 2,608,966, Sept. 2.
Hydrocarbon conversion. V. O. Bowles and A. H. Schutte. 2,609,332, Sept. 2.
Hydrocarbon synthesis gas, Production of. B. J. Mayland. 2,609,382, Sept. 2.
Hydrodynamic machine. W. Ferris. 2,608,933–4, Sept. 2.
Hydrogen process. L. W. Russum and J. F. Coffey. 2,609,274, Sept. 2.
Hydrogenation of polysaccharides. J. Lolkema and H. A. Van Westen. 2,609,398, Sept. 2.
Hypnosis assisting device. A. M. Gordon. 2,608,969, Sept. 2.
Impedance testing apparatus. H. F. Blair. 2,609,419. Sept. 2.
Implement mounting for tractors, Three-point front. J. E. Bywater and R. F. Hale. 2,608,924, Sept. 2.
Incinerator, Garbage and refuse. E. J. Weggel. 2,608,943, Sept. 2.
Increasing fluidity of material, Method and apparatus for. J. Eisner. 2,609,185, Sept. 2.
Indicating device. G. E. Hulstede. 2,609,422, Sept. 2.
Indicator: *See*—
Flashover indicator.
Indicator setting mechanism operable by means of character comparisons. J. C. Marshall and J. J. Connolly. 2,609,439, Sept. 2.
Inductance device. K. F. Kirchner. 2,609,531, Sept. 2.

Infinitely variable gear. W. Zwick. 2,608,871, Sept. 2.
Injector mechanism. M. D. Martin. 2,609,500, Sept. 2.
Instrument, Indicating. J. E. Forbes. 2,608,948, Sept. 2.
Instrument, Musical wind. C. Lisi and U. Casaccia. 2,608,899, Sept. 2.
Insulator assembly, Adjustably mounted. J. N. Binns, T. E. Dugle, and A. F. Alt. 2,609,418, Sept. 2.
Iron having improved water reservoir and steam generator, Steam. F. E. Finlayson. 2,608,773, Sept. 2.
Ironer roll and pad with heat-reflecting sheet applied thereto. S. A. Oblitz. 2,608,749, Sept. 2.
Ironing board cover. W. McCrory. 2,608,774, Sept. 2.
Jack: *See*—
Automobile jack. Lifting jack.
Hydraulic jack.
Jar lid removing mechanism for drying ovens. E. A. Tesch, Jr., 2,609,110, Sept. 2.
Jaw design and adjusting means for pipe tongs. B. Cranner. 2,608,893, Sept. 2.
Jet airfoil brake. J. A. McNally. 2,609,168, Sept. 2.
Joint: *See*—
Universal joint.
Joint for tie boring machines, Knuckle. F. J. Lahaie. 2,608,840, Sept. 2.
Key holder. S. Leff. 2,608,851, Sept. 2.
Keyed automatic gain control. J. Avins. 2,609,443, Sept. 2.
Knife, Paper cutting. J. W. Joseph. 2,608,757, Sept. 2.
Laminated pipe and making same. H. E. Boge. 2,609,319, Sept. 2.
Lamp: *See*—
Miner's lamp.
Lamp case for elongated tubular lamps. E. T. Roberts. 2,609,483, Sept. 2.
Lamp or the like, Arc. R. C. Beltz. 2,609,519, Sept. 2.
Latch: *See*—
Gate latch. Mechanical pressure latch.
Leak closure. S. M. Kass. 2,609,003, Sept. 2.
Letoff device for textile machines. W. Lord. 2,609,006, Sept. 2.
Level wind reel. K. G. and N. G. Guhlin. 2,609,161, Sept. 2.
Lifting jack. G. G. Kearful, J. J. Verbrugge, and R. A. Malone. 2,609,178, Sept. 2.
Light-sensitive photographic element and process using it. C. Waller and H. O. Dickinson. 2,609,292, Sept. 2.
Lighter, Cigarette. F. A. B. Jones. 2,608,848, Sept. 2.
Lighting of operating rooms. C. L. G. Bénard. 2,609,484, Sept. 2.
Lipstick, Cartridge-type. C. H. Braselton. 2,609,092, Sept. 2.
Lipstick container. A. P. Lynn. 2,609,093, Sept. 2.
Liquid flow controlling valve. H. Andrews. 2,608,993, Sept. 2.
Liquid-liquid extraction process and tower. J. R. Casler and C. C. Nelson. 2,609,276, Sept. 2.
Liquid separation apparatus. D. G. Griswold. 2,609,099, Sept. 2.
Lock for miners' safety lamps, Magnetic. G. Wheat and A. G. Davis. 2,609,487, Sept. 2.
Lock for trailers, Safety. J. Murrill. 2,609,211, Sept. 2.
Lower fatty acid esters of geraniol, nerol, and linaloöl, Preparation of. R. L. Knapp and D. L. Schoene. 2,609,388, Sept. 2.
Lubricant. J. R. White, O. H. Clark, and W. W. Woods. 2,609,342. Sept. 2.
Machine for bagging cereals or grain. E. Korber. 2,609,134, Sept. 2.
Machine for conditioning liquids with gases. R. Dering. 2,609,189, Sept. 2.
Machine for cutting clutches. E. Wildhaber. 2,608,906, Sept. 2.
Machine for finishing articles of pottery ware. E. G. Arelt. 2,608,738, Sept. 2.
Machine for handling sugar beets, potatoes, and the like. G. O. Graaff. 2,608,815, Sept. 2.
Machine for making electrode assemblies. P. L. Reed. 2,608,743, Sept. 2.
Machine for making honeycomb core material. H. C. Engel, W. W. Troxell, and T. P. Pajak. 2,609,314, Sept. 2.
Machine for molding drain tile. J. H. Minton. 2,608,739, Sept. 2.
Machine for preparation of relief maps. B. Ivins and G. M. Pelt. 2,608,907, Sept. 2.
Machine for weaving loops into fabrics. P. J. St. Jean and W. Pruitt. 2,609,004, Sept. 2.
Magnesium alloy and treatment. J. W. Meier. 2,609,309, Sept. 2.
Magnetic grapple can loading machine. L. J. Bulliet. 2,609,133, Sept. 2.
Magnetic tape controlled punch. R. I. Roth. 2,609,050, Sept. 2.
Magnetic work holder. W. L. Bower. 2,609,430, Sept. 2.
Magnetizing partly demagnetized permanent field magnets in alternating current generators. M. F. Reijnst and R. H. de Beer. 2,609,411, Sept. 2.
Magnetron. J. F. Hull. 2,609,522, Sept. 2.
Making flexible tubular coverings, Method and apparatus for. E. A. Farrell. 2,609,312, Sept. 2.
Manometer. J. R. Morgan, N. E. Alexander, and E. A Comley. 2,608,865, Sept. 2.
Manually adjustable choke valve. C. S. Weyandt and N. C. McKelvy. 2,609,173, Sept. 2.
Marine foundation, Portable. R. P. Knapp. 2,608,825, Sept. 2.
Marking surface. G. F. Ritter. 2,608,800, Sept. 2.
Mass diffusion process and apparatus. M. Benedict. 2,609,059, Sept. 2.
Material transfer for conveyers. J. M. Leach. 2,609,083, Sept. 2.
Means used in conjunction with a motion picture camera for the photographic recording of a date on a film. D. Kramer. 2,608,919, Sept. 2.
Measuring tightness of vessels, Method and apparatus for. R. B. Jacobs. 2,608,855, Sept. 2.
Mechanical pressure latch. R. G. Nye. 2,609,268, Sept. 2.
Mechanical pulverization of refrigerated plastics. R. E. Bludeau. 2,609,150, Sept. 2.
Mechanism for drawing wire. E. J. McIlvried. 2,609,087, Sept. 2.
Medium for production of penicillin. A. R. Stanley. 2,609,330, Sept. 2.
Mercapto thiazole-sulfur halide reaction products. D. J. Beaver. 2,609,373, Sept. 2.
Mercury switch. G. W Winter. 2,609,467, Sept. 2.
Metal foil honeycomb core. T. P. Pajak. 2,609,068, Sept. 2.
Meter: *See*—
Frequency meter.
Microspacers, Making. O. M. Stuetzer. 2,608,722, Sept. 2.
Mildewproof cellulose produced by reaction with chlorobenzyl quaternary ammonium salts. M. Couper. 2,609,270, Sept. 2.
Milking machine. J. A. Kingston. 2,608,951, Sept. 2.
Mill: *See*—
Vertically arranged hammer mill.
Milling attachment for lathes. W. H. Quinn. 2,608,909, Sept. 2.
Miner's lamp. G. Wheat and A. G. Davis. 2,608,849, Sept. 2.
Mixing and kneading machine. H. T. Lamb. 2,608,941, Sept. 2.
Mixing valve. N. L. Helkes. 2,609,146, Sept. 2.
Mobile steam generator. R. M. Hardgrove. 2,608,938, Sept. 2.
Modified resins from polystyrenes and esters of saturated aliphatic dicarboxylic acids and unsaturated alcohols. O. L. Polly. 2,609,354. Sept. 2.
Modified weak-acid isopropanol process. E. H. Amick, Jr., 2,609,400, Sept. 2.
Molding device, Dough. J. F. Naylor. 2,608,939, Sept. 2.
Molding machine. E. E. Heinzelman. 2,608,721, Sept. 2.
Monomeric stable methylolphenol compositions, Preparing. H. M. Kvaines. 2,609,352, Sept. 2.
Mop holder and fountain spray device. L. Myshock. 2,609,236, Sept. 2.
Motor driven lamp hanger. T. B. Farrington and H. L. Dalzell. 2,609,170, Sept. 2.
Motor with telescoping pistons, Compound hydraulic. J. Haller. 2,608,826, Sept. 2.
Mount for tensile testing specimens of textile material. R. R. La Torre and T. W. George. 2,608,857, Sept. 2.
Mounting: *See*—
Ophthalmic mounting.
Movable magnet oscillograph. J. Babaud. 2,609,410, Sept. 2.
Moving sign. W. F. O'Gorman, 2,608,778, Sept. 2.
Multiple bit tool. C. S. Weber. 2,609,019, Sept. 2.
Multiple coat hanger support. K. F. Leach. 2,609,104, Sept. 2.
Multiplex frequency modulation system. G. J. Harmon. 2,609,535, Sept. 2.
Muscle stimulator. W. E. Glison. 2,609,499, Sept. 2.
N-substituted aminomethylsulfonic acids, Preparation of. H. D. Hartough. 2,609,374, Sept. 2.
Needle threader. M. T. David. 2,609,131, Sept. 2.
Nestable container. P. L. Williams. 2,609,120, Sept. 2.
New carbohydrate compounds, Production of. K. M. Gaver, E. P. Lasure and D. V. Tieszen. 2,609,370, Sept. 2.
Nickel catalyst dispersed in fat, Preparation of a. S. Faulkner. 2,609,346, Sept. 2.
Nitration of saturated aliphatic hydrocarbons. H. B. Hass and L. G. Alexander. 2,609,401, Sept. 2.
Nitrobenzyl thiophosphate esters. W. G. Craig. 2,609,383, Sept. 2.
Nitrous oxide production. F. R. Balcar. 2,609,273, Sept. 2.
Nonmechanical solids valve. C. H. Winter, Jr. 2,609,249, Sept. 2.
Nozzle, Sprayer. C. Anderson. 2,609,238, Sept. 2.
Offset disk harrow. W. R. Frank. 2,608,814, Sept. 2.
Offset disk harrow links. W. R. Frank. 2,608,813, Sept. 2.
Ointment, Alkyl vanillate. I. A. Pearl. 2,609,323, Sept. 2.
Olefin-DDT reaction products. E. C. Ladd. 2,609,402, Sept. 2.
Oleo-pneumatic shock strut. G. T. Drakeley and C. V. Hanson. 2,609,195, Sept. 2.
Opening fibrous agglomerations, Method and apparatus for. J. H. Zettel. 2,609,313, Sept. 2.
Operation and regulation of thermal power plants. V. H. Pavlecka and F. Dallenbach. 2,608,822, Sept. 2.

Ophthalmic mounting. J. W. Barrington. 2,608,904, Sept. 2.
Opposed piston engine. M. Mallory. 2,608,964, Sept. 2.
Ornamental display device. J. F. Joy. 2,608,779, Sept. 2.
Ornamented ophthalmic frame. T. H. Eyles. 2,609,278, Sept. 2.
Oscillator, Gaseous tube. G. J. Siezen. 2,609,506, Sept. 2.
Otter board. M. Pierlot. 2,608,781, Sept. 2.
Oxidation inhibitor for lubricating oils. C. E. Saunders and C. M. Murphy, Jr. 2,609,343, Sept. 2.
Oxidation of hydrocarbons. C. F. Dougherty, Jr. and C. C. Chapman. 2,609,395, Sept. 2.
Package forming machine. F. E. Bickford. 2,608,915, Sept. 2.
Packaging machine. J. H. Stroop. 2,608,809, Sept. 2.
Packing and application. W. E. Montgomery. 2,608,728, Sept. 2.
Packing element. N. M. Sider. 2,609,136, Sept. 2.
Pad: *See*—
Writing pad.
Paper cutter. W. L. Wilkoff. 2,609,047, Sept. 2.
Partition. W. T. Sermeus. 2,609,436, Sept. 2.
Pattern roll table. A. L. Mishler. 2,608,780, Sept. 2.
Pattern tracer assembly. C. E. Greene and R. B. Lesher. 2,608,896, Sept. 2.
Penicillin mold and jelly, Production of. A. J. Quirk. 2,609,322, Sept. 2.
Percolator, Rapid. W. W. Gaskell, Jr. 2,608,927, Sept. 2.
Phosphonic alkylene polyamino acids and producing same. F. C. Bersworth. 2,609,390, Sept. 2.
Photoflash system. R. A. Stein and L. S. Wasserman. 2,609,523, Sept. 2.
Photogrammetrically constructing topographical maps, Method and apparatus for. D. St. John. 2,608,763, Sept. 2.
Photograpic developing tank. L. R. Spaulding. 2,608,923, Sept. 2.
Photographic multilayer stripping films. J. H. Coote and W. H. Gathercole. 2,609,291, Sept. 2.
Photographing printing forms. G. L. Morrison. 2,609,293, Sept. 2.
Picture viewing device. O. R. Nemeth. 2,608,902, Sept. 2.
Piercing valve. J. W. McDonald. 2,608,989, Sept. 2.
Pin curl forming device. O. F. Trippler. 2,608,977, Sept. 2.
Pin file-fastener. S. Segal. 2,608,732, Sept. 2.
Pintle hook. L. R. Buckendale and E. V. Elconin. 2,609,213, Sept. 2.
Pipe: *See*—
Cradle invert subsoil drainage pipe.
Piston and connecting rod aligner. T. E. Brooks. 2,609,208, Sept. 2.
Piston packing ring. M. W. Marien. 2,609,260, Sept. 2.
Piston ring. T. J. Hoy. 2,609,257, Sept. 2.
Piston ring. F. W. Wilkening, H. G. Braendel and C. F. Engelhardt. 2,609,259, Sept. 2.
Plant growth regulation. N. Tischler. 2,609,286, Sept. 2.
Plasticized cellulose trincetate. H. Jones and J. K. Aiken. 2,609,304, Sept. 2.
Plasticizing rubber. M. F. Torrence. 2,609,405, Sept. 2.
Plasticizing rubber. J. J. Verbanc. 2,609,404, Sept. 2.
Platform laying and platform cover turning machine. E. Quinn. 2,608,701, Sept. 2.
Plug: *See*—
Demountable casting plug.
Plug valve. J. Heinen. 2,609,174, Sept. 2.
Plunger for clearing waste pipes and drains. G. B. Skibowski. 2,608,695, Sept. 2.
Polarized relay. R. J. Joseph. 2,609,462, Sept. 2.
Polishing guard. J. G. McNeil. 2,608,808, Sept. 2.
Polymerizable composition of styrene, unsaturated alkyd resin, and elastomer. L. C. Rubens and R. F. Boyer. 2,609,353, Sept. 2.
Portable accessory case. B. A. McLaughlin. 2,609,073, Sept. 2.
Positioning electrodes and other tubular elements, Method and device for. G. Starre and J. H. van den Berge. 2,608,744, Sept. 2.
Positive letoff mechanism for looms. C. R. Beall. 2,609,007, Sept. 2.
Pot type oil burner. R. C. Laramy. 2,609,041, Sept. 2.
Potentiometer, Sinusoidal. A. M. Matthews. 2,609,469, Sept. 2.
Powder distributing drum. J. Buchan. 2,609,126, Sept. 2.
Power transmission belt. T. Ellison and S. G. Leuty. 2,608,875, Sept. 2.
Power transmitter. P. Schulder. 2,609,075, Sept. 2.
Prevention of foaming in steam generation. C. E. Johnson. 2,609,344, Sept. 2.
Price tag and molding trim. F. G. Schuler. 2,608,777, Sept. 2.
Price tag molding. F. G. Schuler. 2,608,776, Sept. 2.
Primary alcohol composition. W. F. Gresham and M. A. Kubico. 2,609,397, Sept. 2.
Process for the hydrolytic hydrogenation of carbohydrates in an acid medium. C. M. H. Kool, H. A. Van Westan and L. Hartstra. 2,609,399, Sept. 2.
Producing coatings on metal, Method and material for. R. C. Gibsen. 2,609,308, Sept. 2.
Producing sheet glass, Method and apparatus for. D. E. Sharp. 2,608,798, Sept. 2.
Propeller anemometer. H. C. Sontag, F. Cordero and S. H. J. Womack. 2,608,859, Sept. 2.
Propeller blade, Reversible. H. K. Monroe. 2,609,055, Sept. 2.
Propeller fan construction. C. I. Place. 2,609,058, Sept. 2.
Protecting fatty and phosphorous lipoidic food products, particularly milk and dairy products, margarine and the like, against getting unpleasant taste or flavor. C. G. E. Sjöström and Å. V. Larsson. 2,609,297, Sept. 2.
Protective net attachment for crib beds. N. C. Le Roy. 2,608,696, Sept. 2.
Protective system for electrical apparatus connected with polyphase networks. W. J. and H. E. Turnupseed. 2,609,425, Sept. 2.
Pulse code translator. A. Lesti. 2,609,529, Sept. 2.
Pulse counting and registration system. A. E. Bachelet and F. K. Low. 2,609,498, Sept. 2.
Pulse width discriminator circuit. G. B. Guthrie, Jr. 2,609,501, Sept. 2.
Pulverizing and classifying machine. P. D'Aragon. 2,609,151, Sept. 2.
Purifying streptomycin. W. A. Winsten. 2,609,369, Sept. 2.
Purifying water. W. Juda. 2,609,341, Sept. 2.
Pyrolytic conversion of oil shale. L. K. Cheney. 2,609,331, Sept. 2.
Quick fastening device. O. J. Poupitch. 2,608,735, Sept. 2.
Rack: *See*—
Shuttle loading rack.
Rack with drip catcher. J. J. Kennedy. 2,608,843, Sept. 2.
Radial engine crankshaft mechanism. R. D. Willis. 2,608,870, Sept. 2.
Radiant heating installation. E. De F. Tidd. 2,609,474, Sept. 2.
Radio and/or television game apparatus. H. H. Wixson. 2,609,204, Sept. 2.
Radio frequency wattmeter. H. C. Early. 2,609,450, Sept. 2.
Radio television receiving system, Combination. E. O. Keizer. 2,609,441, Sept. 2.
Rail chair. T. W. Mundt. 2,609,148, Sept. 2.
Rapidly hardening cast resins from phenol and formaldehyde and tension-free castings prepared therefrom, Preparation of. W. J. Taat and R. W. V. Korndorffer. 2,609,351, Sept. 2.
Reacting polyvinylalcohol with urea phosphate. G. C. Daul and J. D. Reid. 2,609,360, Sept. 2.
Reaction products of nuclearly polyhalogenated quinonoid compounds and trialkyl phosphites and making same. E. C. Ladd and M. P. Harvey. 2,609,376, Sept. 2.
Recorder, Altitude and distance. M. Wallace. 2,609,532, Sept. 2.
Recording in colors. Electrical. A. N. Goldsmith. 2,609,440, Sept. 2.
Recovering oysters. S. G. Harris. 2,608 716, Sept. 2.
Recovery of bacitracin. M. Senkus and P. C. Markunas. 2,609,324, Sept. 2.
Recovery of oil from wells. E. R. Brownscombe. 2,609,051, Sept. 2.
Recovery of vitamin B_{12} from liver. N. G. Brink and T. R. Wood. 2,609,325, Sept. 2.
Reducing bulging of crusher jaw face-plates. R. V. Baker. 2,609,154, Sept. 2.
Reducing weak spots in calendered film. J. W. Kay. 2,608,717, Sept. 2.
Reduction of metal oxides by gases. A. T. Stuart. 2,609,288, Sept. 2.
Reel: *See*—
Automatic fly reel.
Level wind reel.
Reel. H. C. Howsam. 2,609,162, Sept. 2.
Refrigerating apparatus. G. S. McCloy. 2,608,834, Sept. 2.
Refrigerating apparatus. J. E. Woods. 2,608,832, Sept. 2.
Refrigerator, Multiple temperature household. G. A. Grubb and P. A. Backteman. 2,608,835, Sept. 2.
Refuse can supoprt. A. H. Gravos and P. J. Ivy. 2,609,103, Sept. 2.
Regeneration of a fixed-bed Fischer-Tropsch catalyst. J. C. Easly and H. L. Kellner. 2,609,345, Sept. 2.
Register control system. H. F. McKenney and G. A. Lieske. 2,609,197, Sept. 2.
Reinforced central tunnel for X-member of chassis frame. W. G. Hess. 2,609,217, Sept. 2.
Relay. J. T. L. Brown and C. E. Pollard, Jr. 2,609,464, Sept. 2.
Remote reading compass unit. F. G. Boucher and A. B. Hildebrandt. 2,609,513, Sept. 2.
Removal of amine inhibitors from unsaturated monomers. C. H. Basdekis and E. F. Jackson. 2,609,387, Sept. 2.
Resazurin test for milk. N. S. Golding. 2,609,275, Sept. 2.
Resilient casing with slidable tool. A. Andrews. 2,608,890, Sept. 2.
Resinous compositions of styrene, castor oil, and a diisocyanate. W. E. Cass. 2,609,349, Sept. 2.
Resinous products contaiinign chloroisopropenyl-toluene. G. S. Schaffel. 2,609,361, Sept. 2.
Resistance materials and elements. F. R. Quinn. 2,609,470, Sept. 2.
Resonant circuits. K. F. Kirchner. 2,609,491, Sept. 2.
Retractile cord and making it. T. K. Cox and F. P. Lyons. 2,609,417, Sept. 2.

Ribbon feed for typewriting machines. C. Schroder. 2,609,077, Sept. 2.
Ring: *See*—
Piston ring.
Piston packing ring.
Ring A aromatized steroidal compounds and preparing them. M. R. Ehrenstein. 2,609,377, Sept. 2.
Ring sizing tool. E. F. Kirkwood. 2,608,748, Sept. 2.
Rocket. C. C. Lauritsen. 2,608,931, Sept. 2.
Roller slide for radial arm shapers. E. T. Pankonin. 2,608,908, Sept. 2.
Rolling mill guide. S. E. M. Norlindh. 2,608,888, Sept. 2.
Rotary electrical precipitator. A. Z. Hahn. 2,609,061, Sept. 2.
Rotary out-trunk switching arrangement. O. C. Hall. 2,609,456, Sept. 2.
Route-finding device. R. F. Hansford. 2,608,770, Sept. 2.
Routing machine. A. Bjorklund. 2,609,018, Sept. 2.
Rupture disk assembly. H. R. Spence, Jr. 2,608,719, Sept. 2.
Rust inhibiting material. H. N. Copthorne. 2,609,302, Sept. 2.
Safe and dispenser, Loose leaf paper. H. W. Marano. 2,609,219, Sept. 2.
Safety attachment for the inflation of tires. R. E. Titus. 2,609,037, Sept. 2.
Salts of alkylene bis-dithiocarbamic acids, Preparation of certain. A. L. Flenner. 2,609,389, Sept. 2.
Sausage-stuffing machine, Hydraulic. F. Fernandez. 2,608,715, Sept. 2.
Saw and saw table therefor, Traveling. W. C. Schwantes. 2,609,014, Sept. 2.
Saw blade with tension stabilizing holes, Circular. W. R. Chapin. 2,609,017, Sept. 2.
Saw handle. S. C. Becker. 2,609,020, Sept. 2.
Saw, Reciprocating power-driven. F. Gavioia and F. Anacabe. 2,609,015, Sept. 2.
Saw vise. W. Gamboney. 2,608,747, Sept. 2.
Scavenging engine bearings. W. A. Douglas. 2,609,065, Sept. 2.
Screen: *See*—
Glare screen.
Screening of fibrous material. J. McCrystle. 2,608,910, Sept. 2.
Scrubber for solvent extraction towers. R. T. Anderson. 2,609,186, Sept. 2.
Sealing of thermoplastic materials. C. W. Vogt. 2,609,317, Sept. 2.
Sealing strip for steel sash windows. R. O. Morgann and R. J. Bush. 2,609,071, Sept. 2.
Seat track of the vertical adjustable type for automotive vehicles. A. H. Haberstump. 2,609,029, Sept. 2.
Secondary galvanic cells and electrodes of such cells. P. Salisbury-Rowswell. 2,609,407, Sept. 2.
Seed planter with electrically vibrated feed trough. A. F. and F. L. Goldsby. 2,609,123, Sept. 2.
Seismic exploration apparatus. A. C. Winterhalter. 2,609,438, Sept. 2.
Selecting and lockout circuit. G. Hecht. 2,609,454, Sept. 2.
Selective direction television and high-frequency antenna system. M. P. Middlemark. 2,609,503, Sept. 2.
Self-aligning belt idler. H. S. Hersey. 2,609,084, Sept. 2.
Self-leveling, storing and dispensing apparatus. C. H. Larsen. 2,609,265, Sept. 2.
Self-unloading conveyer body. E. Oklejas. 2,609,115, Sept. 2.
Semiconduction electrode construction. H. B. Law. 2,609,429, Sept. 2.
Separation of cellular organisms from aqueous suspensions thereof. L. C. Reed. 2,609,328, Sept. 2.
Sewing machine table motor mount. N. G. Godshall and R. L. Marks. 2,609,262, Sept. 2.
Shaft bearing seal. E. R. Zademach and W. W. Clarke. 2,608,982, Sept. 2.
Shaping device. W. A. Samans and W. B. Weaver. 2,609,048, Sept. 2.
Shaping thermoplastic sheet material, Method and apparatus for. W. E. Meissner. 2,608,720, Sept. 2.
Shelf, Adjustable. R. L. Hallock. 2,609,267, Sept. 2.
Shock mount for relays. H. M. Knapp and F. A. Zupa. 2,609,171, Sept. 2.
Short-oil alkyd resin of low acid number and preparing the same. R. N. Du Puis and H. J. Wright. 2,609,348, Sept. 2.
Shower. F. L. Taulman. 2,609,232, Sept. 2.
Shrouded tail rotor. J. G. Lee. 2,609,053, Sept. 2.
Shuttle car. W. R. Beck. 2,609,116, Sept. 2.
Shuttle for sewing machines, Electromagnetic. A. Hagquist. 2,608,945, Sept. 2.
Shuttle loading rack. J. Henle. 2,609,102, Sept. 2.
Side opening milk cooler. R. D. Pusey. 2,608,836, Sept. 2.
Sign: *See*—
Moving sign.
Signal: *See*—
Fishing tip-up signal.
Signal translating arrangement. H. A. Wheeler. 2,609,496, Sept. 2.
Signaling device. S. Lando. 2,608,784, Sept. 2.
Signaling device, Perforating recorder. H. W. Goff. 2,609,433, Sept. 2.
Signaling on railways. K. A. Fletcher. 2,609,488, Sept. 2.
Silicon carbide refractory article. J. P. Swentzel. 2,609,318, Sept. 2.
Silicone elastomer golf ball core. F. S. Martin. 2,609,201, Sept. 2.
Single leaf springs, Making. R. Schilling. 2,608,752, Sept. 2.
Ski device, Snow or water. R. V. Jennings. 2,609,210, Sept. 2.
Ski-tow apparatus. W. L. Moore and G. P. Carver. 2,608,935, Sept. 2.
Skirt hanger. W. A. Burnell. 2,609,130, Sept. 2.
Slab handling device. J. D. Mollendorf. 2,609,225, Sept. 2.
Slider for slide fasteners. J. Beckerman. 2,608,734, Sept. 2.
Sliding abutment type rotary internal-combustion engine. F. Kunz. 2,608,960, Sept. 2.
Slitting articles, Method of and apparatus for. V. A. Rayburn. 2,609,049, Sept. 2.
Sliver piecing device. K. G. Strew. 2,608,725, Sept. 2.
Snap hook. E. T. Blazewicz. 2,608,736, Sept. 2.
Soldering apparatus for piezoelectric crystals. J. F. Barry. 2,608,745, Sept. 2.
Sole press of the turret type. H. E. Marasco. 2,608,703, Sept. 2.
Solenoid actuating reversing valve. L. H. Gardner. 2,608,995, Sept. 2.
Space heater with means to preheat fuel therefor. W. E. McCrory. 2,608,967, Sept. 2.
Spindle for spinning and twisting frames. T. Harris. 2,609,254, Sept. 2.
Spindle head, Wear-compensating. H. H. Ranney. 2,609,252, Sept. 2.
Spinning mechanism. H. Reinicke. 2,608,817, Sept. 2.
Split engine cover. S. A. Dillon. 2,609,164, Sept. 2.
Spool for photographic film processing machines. W. E. Miller. 2,608,876, Sept. 2.
Spray gun for fire apparatus and the like. B. D. Barton. 2,609,239, Sept. 2.
Sprayer stop valve. R. F. Darling. 2,609,237, Sept. 2.
Spraying machine, Moistened dust. J. A. Chater. 2,608,792, Sept. 2.
Spraying system. C. C. Herbert. 2,608,952, Sept. 2.
Spring: *See*—
Automobile seat spring.
Spring. A. S. Krotz. 2,609,194, Sept. 2.
Spring counterbalance. E. E. Foster. 2,609,191, Sept. 2.
Spring sash counterbalance. E. E. Foster. 2,609,193, Sept. 2.
Squaring tool. J. F. Doud. 2,608,765, Sept. 2.
Stabilization of peracids with dipicolinic acid. F. P. Greenspan and D. G MacKellar. 2,609,391, Sept. 2.
Stabilization of vinyl halide polymers with a composition containing an ester of an unsaturated alcohol. D. E. Winkler. 2,609,355, Sept. 2.
Stabilized emulsions and producing the same. A. B. Storrs and J. R. Froedge. 2,609,300, Sept. 2.
Stabilizer for tractor power lifts. H. E. Hancock. 2,609,215, Sept. 2.
Stand for dress-forms and the like. R. F. Palmer. 2,609,132, Sept. 2.
Steam generator. C. H. Woolley. 2,608,959, Sept. 2.
Steam turbine. C. E. Kenney and C. D. Wilson. 2,609,255, Sept. 2.
Steering apparatus for vehicles, Sharp turn. E. M. McElhinney and T. A. Podhajsky. 2,609,216, Sept. 2.
Stiffened woven fabric. P. Amyot. 2,609,013, Sept. 2.
Stocking supporter and blouse holder, Combined. E. Berg. 2,608,692, Sept. 2.
Stool, Utility. T. R. Finke. 2,609,033, Sept. 2.
Straight bore hydraulic knuckle. C. P. Young. 2,609,226, Sept. 2.
Straw windrower. J. J. Overman. 2,609,080, Sept. 2.
Stripping photographic emulsions. J. Q. Umberger and A. W. Grumbine. 2,609,290, Sept. 2.
Styrene compounds, Manufacture of. F. E. Salt, W. Webster, and E. Galitzenstein. 2,609,403, Sept. 2.
Suction apparatus for cleaning rooms. H. F. Jackson. 2,609,190, Sept. 2.
Suction box connection to manifold. S. M. Bratton. 2,608,913, Sept. 2.
Suction cleaner adapted to carry cleaner tools. C. P. Benjamin. 2,608,709, Sept. 2.
Supplemental support for assembling ply material bands. M. Engler. 2,609,311, Sept. 2.
Support: *See*—
Multiple coat hanger support.
Tree suport.
Wheel shield support.
Refuse can support.
Surface marking system for aircraft runways. M. A. Garbell. 2,609,437, Sept. 2.
Surfacing method and apparatus. M. A. Culling. 2,608 895, Sept. 2.
Surge absorbing chamber. G. G. Hebard. 2,609,001, Sept. 1.
Surgical truss with adjustable pad. W. L. Conner. 2,608,970, Sept. 2.
Swab holder. A. M. Rothbardt. 2,609,089, Sept. 2.
Swing, Motor-driven child's. H. Z. Puscas. 2,609,031, Sept. 2.
Switch: *See*—
Automatic resetting overload switch.
Mercury switch.

Switch actuator for portable hand tools. C. H. Gubbins. 2,609,468, Sept. 2.
System for recording X-ray diffraction data. E. A. Hamacher. 2,609,144, Sept. 2.
Table: *See*—
Folding extensible table. Pattern roll table.
Table cover and tray. S. L. and B. N. Greene. 2,608,842, Sept. 2.
Table for operating tables or beds, Collapsible arm support. J. A. Parker. 2,609,261, Sept. 2.
Table leveler. A. J. Matter. 2,608,794, Sept. 2.
Table or the like, Folding. M. Levinson. 2,609,072, Sept. 2.
Tank: *See*—
Aircraft fuel tank.
Photographic developing tank.
Tapering panel construction for foundation garments. J. Leonard. 2,608,688, Sept. 2.
Tapping machine. S. Csencsics. 2,608,699, Sept. 2.
Telegraph repeater, including break feature, Half duplex. W. T. Rea. 2,609,453, Sept. 2.
Telegraph system employing electronic distributor, Multiplex. T. A. Hansen. 2,609,452, Sept. 2.
Telegraph system utilizing electronic distributors, Multiplex. T. A. Hansen. 2,609,451, Sept. 2.
Telephone apparatus. S. D. Vigren and G. E. Gustafsson. 2,609,458, Sept. 2.
Telephone system. A. E. Bachelet. 2,609,455, Sept. 2.
Temperature and humidity control for refrigerated display cases. M. W. Steelman. 2,608,831, Sept. 2.
Temperature indicator device. J. Miller. 2,608,862, Sept. 2.
Temperature-responsive device. I. J. Barsy. 2,609,406, Sept. 2.
Temple hinge mounting providing catch and stop surfaces. J. N. Nelson. 2,608,905, Sept. 2.
Test set for measuring the angle represented by synchro voltages. J. H. Gerth. 2,609,435, Sept. 2.
Testosterone, Producing. G. Rosenkranz, S. Kaufmann, and J. Romo. 2,609,378, Sept. 2.
Textile finishing agent. C. Spatt. 2,609,350, Sept. 2.
Thermometer and stirring rod, Combined. F. P. Knipper. 2,608,861, Sept. 2.
Thermometer, Industrial. P. F. K. Erbguth. 2,608,863, Sept. 2.
Thermorelay element. I. S. Blonder. 2,609,466, Sept. 2.
Thermosealing device and sole therefor. E. C. Fichtner. 2,609,316, Sept. 2.
Thermoset resins, Preparation of. J. E. Koroly. 2,609,357, Sept. 2.
Thread waxing device. R. L. Bradley. 2,608,950, Sept. 2.
Three-electrode semiconductor device. J. P. Stelmak. 2,609,427, Sept. 2.
3-Methyleneglutaronitrile. R. C. Schreyer. 2,609,385, Sept. 2.
Throttle and speed controls for motors. G. T. Leihgeber. 2,609,074, Sept. 2.
Timer attachment for telephones. H. R. Kaiser. 2,609,045, Sept. 2.
Tire dismounting apparatus, Axially compressing type. R. D. Henderson. 2,609,039, Sept. 2.
Tire removing apparatus, Axially compressing type. R. D. Henderson. 2,609,038, Sept. 2.
Tire, Replaceable tread. R. Luchsinger-Caballero. 2,609,026, Sept. 2.
Toaster. E. C. Stanton. 2,609,044, Sept. 2.
Toaster, Frankfurter. J. L. C. McDonnell. 2,608,928, Sept. 2.
Toilet flush tank mechanism. T. E. Crockett. 2,608,991, Sept. 2.
Tongs, Olive. W. E. Bair. 2,609,228, Sept. 2.
Tool: *See*—
Burling tool.
Cartridge belt assembly tool.
Corner forming tool.
Multiple bit tool.
Ring sizing tool.
Squaring tool.
Upholstering tool.
Valve reseating tool.
Tool. D. T. Baldwin. 2,609,179, Sept. 2.
Tool slide. T. D. Foster and R. A. Lauterbur. 2,608,897, Sept. 2.
Top insulator for motor vehicle bodies. R. E. Smith. 2,608,942, Sept. 2.
Top to frame connecting structure mechanism. W. A. Poe. 2,609,264, Sept. 2.
Torque converter, Automatic. H. Orner. 2,608,884, Sept. 2.
Toy building, Collapsible. F. A. Olson. 2,608,726, Sept. 2.
Toy railway. O. R. Nemeth. 2,609,413, Sept. 2.
Toy, Whistling. H. K. Marcell. 2,608,795, Sept. 2.
Traffic signal controller. A. Diebold. 2,609,434, Sept. 2.
Trailer for farm tractors. D. W. McMurtrie. 2,609,212, Sept. 2.
Trailer hitch, Antichafing. D. Vos. 2,609,214, Sept. 2.
Trammel. J. W. Thein. 2,608,766, Sept. 2.
Transmission. R. Lapsley. 2,608,885, Sept. 2.
Transmission control. G. E. Flinn. 2,608,880, Sept. 2.
Trawlnet. C. J. Bottemanne. 2,608,782, Sept. 2.
Treating ferrous metals with aluminum. G. E. McKinney and P. J. Motter. 2,609,289, Sept. 2.
Treatment of matte to recover metallic salts. M. J. Udy. 2,609,272, Sept. 2.
Treatment of soya beans. P. A. Singer and H. J. Deobald. 2,609,299, Sept. 2.
Treatment of well bores. B. P. Kantzer. 2,609,052, Sept. 2.
Treatment of wool with acid aminotriazine resin colloids. L. A. Fluck and J. E. Lynn. 2,609,307, Sept. 2.
Tree support. E. Kroeger. 2,609,169, Sept. 2.
Trimming machine. A. Greenbaum. 2,609,046, Sept. 2.
Truck attachment, Industrial. E. R. Backofen and E. J. Dunham. 2,609,114, Sept. 2.
Truck, Railway. D. S. Barrows and G. F. Couch. 2,608,937, Sept. 2.
Tube: *See*—
Beam amplifier tube.
Cathode ray tube.
Ultrahigh frequency electron tube.
Tunable constant band-width signal-translating stage. H. A. Wheeler. 2,609,460, Sept. 2.
Tunable superheterodyne superregenerative receiver. B. D. Loughlin. 2,609,492, Sept. 2.
Turbine nozzle guide vane construction. J. T. Purvis. 2,609,176, Sept. 2.
Turbine wheel. P. Wirz. 2,609,142, Sept. 2.
Turnbuckle safety-locking sleeve and combination involving same. J. F. Spleiman. 2,609,220, Sept. 2.
21-Iodo-pregnene-(5)-ol-(3)-one-(20), Preparing. H. Ruschig. 2,609,379, Sept. 2.
Twisted selvage cutter. J. Haefliger. 2,609,009, Sept. 2.
Ultrahigh frequency electron tube. J. A. McCullough. 2,609,517, Sept. 2.
Universal joint. R. Chilton. 2,608,839, Sept. 2.
Upholstering tool. C. W. Gant. 2,608,793, Sept. 2.
Use of methanol in emulsion polymerization. C. F. Fryling and J. E. Troyan. 2,609,366, Sept. 2.
Valve: *See*—
Automatic shutoff valve.
Automatic shutoff fuel valve.
Check valve.
Control valve.
Flow control valve.
Fluid flow control valve.
Glass valve.
Liquid flow controlling valve.
Manually adjustable choke valve.
Mixing valve.
Nonmechanical solids valve.
Piercing valve.
Plug valve.
Solenoid actuating reversing valve.
Sprayer stop valve.
Valve. I. M. Ridley. 2,608,801, Sept. 2.
Valve actuating apparatus for actuating valves of steam engines, locomotives, or the like. T. J. Hoy. 2,608,955, Sept. 2.
Valve and switching circuit therefor, Electric delayed-impulse. B. F. Wheeler. 2,608,999, Sept. 2.
Valve assembly. T. E. Crockett. 2,608,990, Sept. 2.
Valve assembly, Dual safety. C. H. Folmsbee and J. M. Martis. 2,608,992, Sept. 2.
Valve control mechanism, Demand. B. B. Holmes. 2,608,971, Sept. 2.
Valve for power transmissions, Control. G. D. Hunter. 2,608,994, Sept. 2.
Valve mechanism. E. Van Sickle. 2,609,207, Sept. 2.
Valve reseating tool. A. B. Utley. 2,608,805, Sept. 2.
Valve with automatic follow-up, Hydraulic control. H. C. Hogan, Jr. 2,608,954, Sept. 2.
Vapor spray system. L. C. Stearman. 2,609,233, Sept. 2.
Vaporizer, Wick type. D. S. Raleigh. 2,609,230, Sept. 2.
Variable area tail pipe for jet engines. H. A. Berliner. 2,608,820, Sept. 2.
Variable-pitch airscrew. J. A. Crowhurst. 2,609,057, Sept. 2.
Vehicle power transmission system. U. F. Luebben. 2,608,883, Sept. 2.
Vehicle wheel. H. L. Mueller. 2,609,244, Sept. 2.
Velocity modulated electron device. F. Coeterier. 2,609,521, Sept. 2.
Vertical deflection system. K. Schlesinger. 2,609,507, Sept. 2.
Vertically arranged hammer mill. J. Brough. 2,609,152, Sept. 2.
Visual indicator and control for miniature trains. P. Roman. 2,609,489, Sept. 2.
Voltage regulator circuit. L. E. Raburn and J. P. Woods. 2,609,527, Sept. 2.
Warp beam coupling. R. L. Booth. 2,609,005, Sept. 2.
Warp clamp. B. D. White. 2,608,742, Sept. 2.
Water heater. A. A. Glawe. 2,608,957, Sept. 2.
Water supply or control apparatus. G. Collman. 2,608,987, Sept. 2.
Wave generating circuits. A. M. Skellett. 2,609,508, Sept. 2.
Weft replenishing apparatus for weaving looms. H. J. Cooper. 2,609,008, Sept. 2.
Weighing and mixing machine, Combination. W. A. Kuring and B. A. Erickson. 2,609,172, Sept. 2.
Welding rod holder. H. B. Bergeson. 2,609,471, Sept. 2.
Welding thermoplastic sheets. L. L. Young. 2,609,482, Sept. 2.
Well fluid holding device. R. G. Taylor, Jr., and T. B. Losey. 2,609,258, Sept. 2.
Wheel: *See*—
Abrasive polishing wheel.
Turbine wheel.
Vehicle wheel.
Wheel cover. G. A. Lyon. 2,609,245-6, Sept. 2.
Wheel shield support. L. S. Van Antwerp. 2,609,218, Sept. 2.

Wind deflector for automobile rear seats. F. H. Helsley. 2,608,926, Sept. 2.
Winding apparatus. J. Asmussen and F. Gruper. 2,609,157, Sept. 2.
Winding apparatus for the web divider of finisher cards. L. Bastin. 2,608,724, Sept 2.
Window drapery and liner, Sectional. A. J. Dubinsky. 2,609,043, Sept. 2.
Window stop. A. Severson. 2,609,222, Sept. 2.
Windshield cleaner. J. R. Oishei. 2,608,707, Sept. 2.
Wiper arrangement for mirrors and the like. F. M. Williamson. 2,608,708, Sept. 2.
Wire bundling mechanism. N. H. Nye. 2,609,159, Sept. 2.
Wire drawing mechanism. E. J. McIlvried. 2,609,088, Sept. 2.
Woven ladder webbing. G. F. and R. French. 2,609,012, Sept. 2.
Wrench handle detachably connectible to rigid-jaw type wrench head. H. G. Miller, Jr., and D. W. Miller. 2,608,894, Sept. 2.
Writing implement, Three-color. P. Kollsman. 2,608,953, Sept. 2.
Writing pad. E. Sparks. 2,608,771, Sept. 2.
Yarn carrier with takeup device for hosiery machines. J. S. Karl. 2,608,844, Sept. 2.
Yarn clamp. C. F. Brown. 2,608,845, Sept. 2.
Yarn-winding machinery. W. H. Kimpton. 2,609,156, Sept. 2.

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CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 2, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Condition of Applications Under Examination at Close of Business August 8, 1952

Total number of patent applications awaiting action, 97,515. Date of oldest new application, November 8, 1951: date of oldest amended application, November 6, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	12–3–51	11–27–51	1461
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	1–5–52	1–5–52	1129
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1–14–52	1–14–52	1694
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	11–23–51	11–21–51	1430
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	11–20–51	11–19–51	1153
6. SURLE, H., Carbon Chemistry (part)	12–17–51	12–6–51	1929
7. ANDERSON, E. G. (Acting), Optics; Photography (part)	12–28–51	12–19–51	1324
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	12–19–51	12–17–51	1408
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	11–16–51	11–13–51	1456
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	12–3–51	11–27–51	1315
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	12–5–51	11–28–51	864
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	11–26–51	11–17–51	1283
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	11–16–51	11–23–51	1201
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus.	11–28–51	11–21–51	1495
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	1–22–52	1–19–52	1376
16. LOVEWELL, N. N., Television, Telephony	11–30–51	12–5–51	1305
17. LEIGHY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	11–23–51	11–23–51	1324
18. KURZ, J. A., Power Plants; Speed Responsive Devices	11–20–51	11–19–51	907
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	11–26–51	11–21–51	1095
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	12–15–51	12–15–51	1326
21. MADER, R. C., Textiles	11–21–51	11–20–51	1301
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	11–30–51	11–24–51	1088
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12–26–51	12–21–51	814
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	12–26–51	12–19–51	1448
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	12–3–51	12–3–51	1293
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	11–29–51	12–4–51	1201
27. JAMES, S., Brushing, Scrubbing: Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	12–7–51	12–7–51	1643
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	11–16–51	11–16–51	1283
29. HABECKER, L. B., Button Making; Woodworking; Tools	12–21–51	12–12–51	972
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	12–21–51	12–26–51	1483
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy compounds, Hydrocarbons, Halogenated Hydrocarbons.	12–4–51	11–14–51	2236
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Mololators and Self-proportioning Systems.	12–6–51	12–11–51	1189
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	11–21–51	11–18–51	1877
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	11–27–51	11–23–51	1146
35. BROMLEY, E. D., Dispensing; Filling and Closing Receptacles	12–1–51	11–28–51	1359
36. McFADYEN, A. D., Measuring and Testing	12–11–51	12–4–51	1109
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	12–29–51	12–19–51	1252
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	11–24–51	11–19–51	1413
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	12–3–51	12–4–51	1844
40. DRUMMOND, E. J., Receptacles (part); Packages	1–2–52	1–9–52	1306
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	12–13–51	12–11–51	889
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	12–11–51	12–15–51	989

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 97,212. Date of oldest new application, November 16, 1951; date of oldest amended application, November 13, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	12-19-51	12-13-51	1322
44. HARVEY, L. P., Beds; Chairs; Seats	11-16-51	11-17-51	1221
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-18-51	12-12-51	1194
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	11-19-51	11-19-51	1129
47. KANOF, W. J., Mining, Quarrying and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	11-20-51	11-20-51	1573
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	11-20-51	11-20-51	1664
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	11-17-51	11-16-51	1380
50. BENGEL, W. G., Synthetic Resins	1-14-52	1-16-52	1445
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music, Piezoelectric Crystals.	12-5-51	12-6-51	1406
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	12-21-51	12-22-51	2048
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	12-21-51	12-22-51	973
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-3-51	11-16-51	1663
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	11-29-51	12-3-51	1045
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	12-5-51	12-5-51	1965
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	12-17-51	12-12-51	1634
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	11-19-51	11-20-51	1170
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	12-18-51	12-19-51	1066
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	12-28-51	1-2-52	882
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	11-29-51	11-20-51	1304
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	12-19-51	12-13-51	1213
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	11-29-51	11-20-51	1681
64. GORECKI, G. A., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	11-27-51	11-29-51	2099
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	12-1-51	11-27-51	1471
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	11-21-51	11-21-51	925
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	1-9-52	1-7-52	1198
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	12-28-51	12-19-51	1419
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	11-21-51	11-19-51	1233
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	11-23-51	11-19-51	2948
DESIGNS: A. BREHM, G. L., Industrial Arts	5-17-52	4-26-52	571
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	5-2-52	4-28-52	769

Total number of trade-mark applications awaiting action (including renewals and republications), 15,244. Date of oldest new application, Feb. 27, 1952; date of oldest amended application, Feb. 26, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	2-27-52	2-26-52	3695
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	2-27-52	2-27-52	3731
Renewals (All Classes)	5-21-52	7-1-52	888
Republications (All Classes)	5-17-52	4-17-52	290
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	3-1-52	2-26-52	3539
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	3-1-52	3-1-52	3101

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

JOSEPH J. CALDWELL, JR. *v.* BECK

No. 5841. Decided March 18, 1952

[196 F.2d 541; 93 USPQ 431]

1. WORDS AND PHRASES—"BETWEEN."

Held that the use of the term "between" in the expression "a concave reflector . . . having a focus positioned between said apertures" does not limit the focus to a position in the same plane as the apertures.

2. INTERFERENCE — PRIORITY OF INVENTION — ANTENNA SYSTEM.

The decision of the Board of Interference Examiners awarding priority of invention to appellee of a count relating to an antenna system, is affirmed.

APPEAL from the Patent Office. Interference No. 83,422.

AFFIRMED.

Thomas M. Ferrill, Jr. (*Paul B. Hunter* of counsel) for Joseph J. Caldwell, Jr.

Henry R. Ashton, M. R. McKenney and *H. A. Burgess* (*Harry R. Pugh, Jr.*, and *George C. Lord* of counsel) for Beck.

JACKSON, *J.*:

This is an appeal in an interference proceeding from a decision of the Board of Interference Examiners awarding priority of invention of the subject matter embraced within a single count to appellee.

There are involved a patent application of appellant for "Object Detecting and Locating System," Serial No. 443,573, filed May 19, 1942, and a patent of appellee, No. 2,409,183, dated October 15, 1946, on an application, Serial No. 455,322, filed August 19, 1942, for "Microwave Antenna." Appellee, being the junior party, has the burden of proving priority of invention by a preponderance of the evidence.

The count originated in the Beck patent and was copied by appellant for the purpose of bringing about this interference. The count reads as follows:

1. An antenna system comprising a pair of wave guides each having a separate aperture for emitting and collecting radiant energy, a concave reflector facing the separate apertures and having a focus positioned between said apertures.

Apparently there is no dispute concerning the count being fully supported in the application of appellant and the patent of appellee since no interlocutory motions were filed.

Oral testimony was produced by both parties together with exhibits which appear in evidence.

Appellant, in his preliminary statement, alleged as follows: drawings of the invention first made and a written description thereof together with a disclosure to others, on or about April 2, 1941; reduction of the invention to practice by construction and successive tests thereof, in the fall of 1941; and the exercise of reasonable diligence beginning on or about April 2, 1941.

It appears in the preliminary statement of appellee that the first drawing, written description, and disclosure to others was made on or before February 6, 1941; reduction to practice on or about May 17, 1941; and the exercise of reasonable diligence beginning on or before February 6, 1941.

The invention relates to a directive antenna system, particularly to a system which is utilized in radio range and direction finding systems. The antenna is composed of two parts, one being a concave reflector, and the other, two wave guides with apertures therein located adjacent to each other and facing the reflector, the focus of the reflector being positioned between the apertures. The apertures are alternately energized in transmission and reception. The two beams, or lobes, issuing from the guides overlap each other and, in radar operation, sharp directivity is obtained because in the region of the lobe cross-over or equi-intensity point, the directive action is critical. There is a lobe switch or similar device ordinarily used to connect the wave guides alternately to the radar transceiver.

It appears that in the latter part of 1940 the Bell Laboratories were requested by the United States Army to develop an accurate direction finding antenna for use on airplanes in locating and bombing enemy targets at sea with weather conditions of poor visibility. The device was characterized by the letters RTO which means "Bombing Through Overcast." The task of performing such work was assigned by the Bell Laboratories to what is known as "The Antenna Group" at Holmdel, New Jersey. The work was in charge of the immediate superior of appellee who was given the problem of developing the sought antenna.

It appears from the testimony of appellee that prior to February 6, 1941, he suggested the use of two wave guides situated at the focus of a parabolic reflector with the apertures of the guides at right angles to the reflector, and thereby producing a

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two-lobed directional pattern with the desired polarization. Such arrangement was shown in one of the exhibits for appellee which was not relied upon for conception. The arrangement of the structure, as shown in the exhibit, required a rapidly operating guide switch which was not then available.

On May 17, 1941, appellee tested a dual wave guide antenna system wherein one of the guides had a co-axial-to-wave guide transducer and the other was closed with a movable piston which in action would simulate the function of a switch. The antenna in the apparatus of that test disclosed a double lobe directive pattern and the test was said to have been satisfactory.

The Board rejected the contention of appellee that conception of the invention defined by the count was May 17, 1941, because the count does not contemplate the kind of structure which was used in the May 17, 1941, test, but, on the contrary, defined a system "having two wave guides which are adapted to be connected to a transducer alternately."

It further appears that on May 21, 1941, appellee received a suitable wave guide, or lobe, switch and incorporated it in a modified dual wave guide system which comprised two contiguous wave guides with separate apertures facing the reflector and mounted with the focal axis of the reflector thereof between them. The system was tested on May 22, 1941, at an airplane radio range (radar) at Holmdel. The Board held that that system, as tested, supported the count and that the test established conception as of May 22, 1941.

After several other tests of the apparatus, appellee brought it to Whippany early in June 1941, and saw it used with the BTO equipment. The entire BTO device was ground tested in radar operation on August 25–26, 1941, for efficiency of the entire device, including its component parts. The tests were satisfactory from a ground location. Subsequently, the BTO device was flight tested in airplanes at Wright Field, Ohio. The test consisted in locating ship targets on Lake Erie, September 19–23, 1941. Freighters, in excess of 20 miles in distance, were located and the pilot of the plane was so directed by the device that he flew directly over the freighters. It was further tested at Mitchell Field, Long Island, between October 7–16, 1941, and was then turned over to the Army.

After the antenna of appellee had been tested at Holmdel, as above noted, a request came from the Navy for the development of an SJ Submarine Radar, which would include an accurate directive finding antenna. Such radar antenna was developed and is shown in several figures of appellee's patent, and is known as the "SJ Radar Antenna." In its essentials, it is substantially identical with the BTO antenna.

A "preproduction" model of the SJ antenna was installed at Atlantic Highlands, New Jersey, on a cliff overlooking the ocean and was successfully tested for range and bearing indications between October 8–10, 1941. The same model was installed on the destroyer U. S. S. *Semmes* and successfully tested near New London, Connecticut, during the months of November and December of that year. A production model of the SJ antenna was also installed on the submarine U. S. S. *Haddock* near Portsmouth, New Hampshire, and successfully and repeatedly employed for range and bearing indications in April 1942.

The Board held that appellee had successfully reduced his antenna device to practice at least as early as October 16, 1941.

In the decision of the Board it is stated that counsel for appellant did not appear to question the readability of the count on the physical elements of the device of appellee but that he did question whether "the important limitation" of the count was met as to location of the focal point *between the apertures*.

It is conceded in the brief on appeal by counsel for appellant that if the record of appellee establishes the 1941 radar tests to be an actual reduction to practice of the apparatus meeting the express requirements of the count, then the decision of the Board should be affirmed.

Counsel for appellant contend that the apparatus of appellee, which was used in the radar test, although it contained the paraboloidal focusing reflector and wave guides with apertures facing toward it, had not been proved in the record so as to meet the last limitation of the count reading "* * * having a focus positioned between said apertures."

The Board, with respect to the position of appellant on the question of the meaning of that limitation in the count, stated that counsel for appellant had quoted the dictionary definition of the word "between" as "in the space which separates." It then observed that the word "between" had several different dictionary definitions. The Board then pointed out the well known rule that a limitation appearing in a count will be given the broadest interpretation that it will reasonably support.

The Board noted that the count originated in the patent of appellee and stated that a reading of the application did not disclose that the word "between" had been given any special or specific meaning or that it was limited to the meaning "in the space which separates" the apertures. It then pointed out:

> * * * Another meaning of "between" is "in common to," i. e., the focal point is not positioned on the left side nor on the right side of the apertures but in the common wall between them. This is a broader definition than the one quoted by Caldwell and in our opinion is a reasonable one. It seems to us that if Beck intended to limit his claim to the extent contended by Caldwell he would have used an expression limiting the focal point not only to "between" the apertures but also "in the plane thereof." Since he did not so limit his claim it is not apparent now that he intended so to do. Limitations, not appearing in the count, should not be read into it.

It is the contention of counsel for appellee that his antennas which were reduced to practice had reflective focus between the wave guide apertures as required by the count.

It appears that appellee, in describing the original dual feed antenna, testified that the apertures face the concave side of the spun aluminum reflector and are situated on each side of its focus, and in describing the antenna which was successfully tested in the flight tests at Wright Field and shown in a photograph exhibit, appellee stated:

> * * * the two wave guides, which I called "drives," which were mounted facing and each side of the focus of the 29 inch long focus paraboloid * * *

The same testimony was given by appellee in describing the SJ antenna.

One of the corroborating witnesses for appellee testified that:

> * * * The common wall between the wave guides was maintained in a position always to include the parabolic focus, while the distance of the pair of guides from the parabolic surface was varied and the position of the piston was also varied to seek the maximum output from the guide * * *

Another of appellee's witnesses testified:

> The dual wave guide feed has two rectangular apertures which are symmetrically disposed on opposite sides of the focus of the parabola. The distance of the feed from the parabola is such that the apparent center of radiation from each feed is at approximately the focal distance from the parabola.

A third witness for appellee testified:

> * * * the antenna was fed from two adjacent sources in front of the reflector, one slightly to the right and one slightly to the left of the focal point. The microwave signals were fed to the reflector alternately from the two sources, while lobe switching.

Counsel for appellee contend that the limitation of the count does not require that the apertures be at the exact focal distance from the reflector. They observe that a nose is commonly referred to as being between the eyes and, quoting from Funk & Wagnalls New Standard Dictionary of the English Language, 1938, they noted that the nose is defined as being "between the forehead and the upper lip." They then contend that the interpretation of the word "between" as used by counsel for appellant is too limited and that such meaning, restricting the focus to be positioned as lying on the same plane as the apertures, would exclude two common uses of the word which they said was

> * * * because clearly the nose is not in the same plane as the eyes, nor is it in the same plane as the forehead and the upper lip. However, the nose is between the eyes and between the forehead and the upper lip in the commonly accepted meaning of the term "between" just as the focus of the Beck antennas was "between" the apertures.

[1] It seems to us that the position taken by the Board in giving to the contested limitation of the count its broadest meaning was proper and we find no sound reason to disagree with it. In our opinion, it is established in the record of appellee that the May 22, 1941, radar test was an actual reduction to practice of the structure defined in the count. Therefore, it is unnecessary, in the light of the concession made by counsel for appellant hereinbefore referred to, to discuss the record made on behalf of appellant.

[2] For the reasons hereinbefore set out, the decision of the Board is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE POOR

No. 5845. Decided March 18, 1952. Petition for rehearing denied May 23, 1952

[196 F.2d 741; 93 USPQ 434]

PATENTABILITY—PARTICULAR SUBJECT MATTER—FURNACE.

Certain claims to a furnace having a vertical combination accelerating grate *Held* unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 643,132.

AFFIRMED.

Potts and Brune, Joshua R. H. Potts, and *Basel H. Brune* (*John A. Robertson* and *Herbert M. Birch* of counsel) for appellant.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Primary Examiner finally rejecting as unpatentable over the prior art three claims of an application of appellant, Serial No. 643,132, filed January 24, 1946. One claim was allowed.

The rejected claims read as follows:

> 10. In combination, a furnace having vertical walls and a horizontal grate, a vertical combustion accelerating grate of hollow construction resting on said horizontal grate and against one of said vertical walls, said accelerating grate having a cross-sectional area that gradually diminishes from the bottom to the top and which is formed on the surface remote from the wall of the furnace with a series of overhanging ledges, there being a large opening beneath each of said ledges, and means for introducing air into said combustion accelerating grate at the bottom thereof.
>
> 11. In combination, a furnace having a vertical wall and a horizontal grate, a vertical combustion accelerating grate of hollow construction having an open bottom resting on said horizontal grate, a rear wall engaging said wall of said furnace and a curved front wall formed with a series of overhanging ledges, there being a pair of relatively large openings beneath each of said ledges and protected thereby, said vertical grate being of gradually diminishing cross section from the bottom to the top, and means for introducing air into said open bottom.
>
> 12. In combination, a structure including a combustion chamber defined by a ver cal wall and a bottom, a hollow vertical combustion accel rating grate resting against said vertical wall and on said bottom and having a cross section which gradually diminishes from the bottom to the top thereof, said vertical accelerating grate having an exposed wall formed with a series of overhanging ledges and formed with a relatively large opening beneath each of said ledges, and means for introducing air into the bottom of said vertical combustion accelerating grate.

The cited references are: Carrigan, 777,331, Dec. 13, 1904; Tournier (French), 820,380, July 26, 1937.

Appellant's application relates to what is called a "Vertical Combustion Accelerating Grate." The structure of the invention is a device, auxiliary in its nature, designed to accelerate the burning of fuel. It is used in addition to the usual grate of a furnace, or in a furnace having a solid bottom. The accelerating grate, which is hollow, is placed against the side wall of the firebox and it is said that it may also be used against the inner wall of an incinerator or other furnace for burning various materials. Its cross dimension gradually diminishes from bottom to top and the structure possesses a series of overhanging ledges under which there are orifices through which the air is admitted. The ledges are said to protect the openings from being choked by the fuel. The auxiliary grate receives a natural air

draft through its bottom and directs it through the openings beneath the ledges.

The Carrigan patent relates to a steam boiler furnace and the structure of the invention is designed so that varying quantities of air are admitted to the firebox. The air is said to be so controlled that after it is admitted substantially complete and perfect combustion is obtained. There is disclosed a combustion chamber comprising vertical walls of a firebox and a horizontal grate on the bottom thereof. In the firebox is a curved member supported by the grate, the upper end of which is disposed against the wall of the firebox. The curved member is provided with orifices through which air, supplied through the grate, passes into the fuel.

The Tournier patent relates to improvements in central heating boilers and the like. It discloses a hollow structure through which additional or secondary air is admitted from the sides of a firebox into the fuel mass and above its upper level so as to secure relatively complete combustion. The secondary air, which may be under atmospheric or other pressure, may be taken from the front of, above, or behind the boiler structure. The feeding of the air takes place on several levels so that it is regularly distributed in the mass and the structure through which the secondary air is admitted shows ledges over the openings to prevent fuel from clogging them.

The claims were rejected as being unpatentable over the Carrigan patent in view of the Tournier reference, it having been held that no invention would be involved in substituting the structure of Tournier for the corresponding plate member of the Carrigan structure for the stated reason that it would merely be the exercise of choice of one known air supplying structure in place of another, not accompanied by an unobvious result.

We are of opinion that all of the claims may be considered as a unit, although counsel for appellant contend that claim 11 contains a distinctive feature not shown in the other rejected claims. However, it should be stated that if the combination of references is proper, all of the claims are unpatentable and, if not, the rejected claims should be held to be patentable.

It is clear that in the Carrigan structure there is a combustion chamber defined by a vertical wall and bottom constituting a firebox and horizontal grate. It is also obvious that there is described in the patent a combination of furnace structure in which there is an auxiliary member bottomed on the horizontal grate and against the wall of the firebox. That member contains openings through which air is directed for combustion.

In our opinion, contrary to the contention of counsel for appellant, the curved member of the patent structure must be held to be hollow. It has a concave surface together with the vertical wall of the firebox forming a structure which is fully equivalent to the hollow grate member of appellant as it performs exactly the same function in essentially the same way. In both the patent structure and that defined by the claims herein, substantially parallel currents of air are introduced into the firebox by an auxiliary grate member which is placed in a vertical position on the horizontal grate.

It is true and was so conceded by the lower tribunals that in the structure of the Carrigan reference there are no projecting ledges over each opening in the auxiliary grate. It is clear, however, that such provision is old in the art, as is shown by the structure of the Tournier patent. Therefore, the combination of appellant is made up of old components and we are unable to see where such combination exceeds the sum of its parts. In our opinion, it would be obvious, if so desired, to apply the ledges of the Tournier structure to protect the orifices of the guard plate of the Carrigan structure and the result of such application would involve nothing new. Patentable invention is not involved by the mere accumulation of prior art teachings into a single device.

We have noted the contention of counsel for appellant that the auxiliary member of the Carrigan reference requires a furnace of special construction as distinguished from that of appellant which may be positioned in or removed from any conventional furnace. However, the involved claims merely define a furnace with vertical walls and a horizontal grate together with a vertical auxiliary grate resting upon the horizontal grate and against one of the vertical walls. Such structure, it is clear to us, is completely depicted in the Carrigan patent.

As we view the issue, the only difference between the disclosure of the Carrigan patent and that defined in the rejected claims resides in the presence of ledges over the openings in the auxiliary grate member. Since it is old to provide such ledges it would be well within the skill of the art to apply them to the Carrigan structure.

The structure defined in claim 10 is substantially the same as that in claim 12, although the language is somewhat different.

Counsel for appellant contend that claim 11 defines a vertical grate member as including a back wall and as such is a limitation, together with the curved front wall defining a hollow construction so that his auxiliary grate may be installed in a simple manner in a conventional furnace. One of the figures of the Tournier structure depicts a grate member responding to the language of that claim. We agree with the opinion of both tribunals below that by substituting the Tournier hollow member for the plate member of the Carrigan structure would be no more than choosing a device having known characteristics and which functions in the usual way.

For the reasons hereinbefore set out the decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,057,295, W. H. Engel, Bag machine, D. C., S. D. N. Y., Doc. 64/124, *Potdevin Machine Co. v. Shellmar Products Corp.* Stipulation of dismissal (notice June 23, 1952).

2,163,660, W. M. Brooks, Bag seal, filed June 23, 1952, D. C., S. D. N. Y., Doc. 76/338, *E. J. Brooks Co. v. Security Fur Seal Co., Inc*

2,185,421, Prutton & Marvin, Thermostatic device, D. C., N. D. Ohio (Cleveland), Doc. 25,676, *Robertshaw-Fulton Controls Co. v. The Patrol Valve Co.* Claims 1, 2, 3 and 6 held invalid, but if valid would be infringed; claims 4 and 5 would not be infringed; defendant's first counterclaim dismissed with prejudice, judgment for defendant on second counterclaim, judgment overruling objections of Master's Report June 16, 1952.

2,252,641, Poliakoff & Sneath, Method of and apparatus for the transmission of speed and other sounds, D. C., S. D. N. Y., Doc. 45/678, *C. H. Lehman v. Dictograph Products, Inc.* Order dismissing cause for lack of prosecution June 10, 1952.

2,299,331. (See 2,588,183.)

2,300,157, G. R. Hunt, Feather-picking apparatus for fowls, filed June 27, 1952, D. C., N. D. Iowa (Cedar Rapids), Doc. 425, *Greenbrier Co. et al. v. Anamosa Poultry & Egg Co.* Same, Dubuque, Doc. 593, *Greenbrier Co. et al. v. Iowa Food Corp.* Doc. 594, *Greenbrier Co. et al. v. Independence Produce Co.*

2,347,988, O. J. Burke, Valve construction, suit for declaratory judgment, D. C., S. D. N. Y., Doc. 61/195, *J. D. Langdon v. B. T. Vacuum Breakers, Inc., et al.* Order dismissing cause for lack of prosecution June 11, 1952.

2,352,989, E. E. Woller, Sofa bed, filed June 26, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1677, *Simmons Co. v. Kroehler Mfg. Co.*

2,360,736, A. N. Spanel, Seamless dipped latex girdle, filed Apr. 10, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c779, *International Latex Corp. v. Sears, Roebuck & Co.* To correct error in 658 O. G. 935, reported by Clerk of Court as 2,306,736.

2,373,330, A. Nutting, Air cleaner; 2,403,545, same, Dust arrester liquid level control, D. C., E. D. Mich. (Detroit), Doc. 9862, *American Air Filter Co., Inc. v. Newcomb-Detroit Co.* Consent order of dismissal without prejudice (notice June 23, 1952).

2,384,806, E. Berdach, Undergarment, D. C., S. D. N. Y., Doc. 76/90, *Lily of France, Inc., et al. v. Kadettes Foundations, Inc.* Stipulation and order of discontinuance (notice June 24, 1952).

2,403,545. (See 2,373,330.)

2,463,587, O. F. Arthur, Pallet; 2,471,095, B. C. Colt, Jr., Combined pallet and crate structure, D. C., E. D. Mich. (Detroit), Doc. 8559, *Tri-State Engineering Co. et al. v. Union Steel Products Co.* Patents held valid and infringed; judgment favor plaintiff's on the complaint 2,546,830, S. R. McKim, Handling pallet or skid for lifting trucks, owned by defendant is held valid and infringed, judgment favor defendant on counterclaim June 13, 1952.

2,471,095. (See 2,471,095.)

2,477,168, T. H. Bradley, Fish eviscerating apparatus, filed June 16, 1952, D. C., N. D. Calif. (San Francisco), Doc. 31617, *T. H. Bradley v. San Carlos Canning Co.*

2,542,886, E. C. Wach, Dentifrice, filed June 24, 1952, D. C., E. D. Ill. (East St. Louis), Doc. 2410, *The University of Illinois Foundation v. Block Drug Co. et al.*

2,546,830. (See 2,463,587.)

2,577,710, E. G. McDonough, Permanent waving solution, filed June 26, 1952, D. C., S. D. N. Y., Doc. 76/375, *Sales Affiliates, Inc., et al. v. Skillern & Sons, Inc., et al.* Doc. 76/376, *Sales Affiliates, Inc., et al. v. Southwestern Beauty Products Co.*

2,588,183, J. Vigon, Hollow fluorescent character and mounting; 2,299,331, C. Marinone, Sign, filed Mar. 5, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c512, *Precision Plastic Products Co. v. Neo Products Co.*

Re. 21,917, C. N. Deverall, Evaporative cooler, filed June 17, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 14257-T, *Niagara Blower Co. v. Refrigeration Engineering, Inc.*

Des. 147,368, M. B. Levoy, Spectacle frame, D. C., S. D. N. Y., Doc. 43/611, *M. B. Levoy v. Remington Optical Corp.* Order dismissing cause for lack of prosecution June 11, 1952.

Des. 152,018, B. F. Playford, Stocking, filed June 9, 1952, D. C., M. D. N. C. (Greensboro), Doc. 644-G, *Tee Jay Hosiery Corp. v. Hugh Grey Hosiery Co., Inc.* Doc. 645-G, *Tee Jay Hosiery Corp., Inc. v. Lillian Knitting Mills Co., Inc.* Doc. 646-G, *Tee Jay Hosiery Corp. v. McRary Hosiery Mills, Inc.* Doc. 647-G, *Tee Jay Hosiery Corp. v. Adams-Millis Corp.*

Des. 153,937, M. Grabol, Baby's bottle holder, D. C., S. D. N. Y., Doc. 53/79, *The Bonnyfex Co. et al. v. Art Craft Character Doll Co.* Stipulation and judgment dismissing action and counterclaim June 27, 1952.

NOTICES

Adjudicated Patent

(D. C. Tex.) Gruskin Patent No. 2,120,667, for a therapeutic agent for use in the treatment of infection. Claims 6, 10, and 14, *Held* valid and infringed. *Rystan Company v. Warren-Teed Products Co., Inc.*, 105 F. Supp. 56; 92 USPQ 419.

Interference Notice

Lorin M. Sims, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Rice Growers Association of California, P. O. Box 958, Sacramento, Calif., for registration of a trade-mark, and Registration No. 372,661 issued November 7, 1939, to Lorin M. Sims, No. 1 Division Street, San Francisco, Calif., and the notice of such declaration sent by registered mail to the said Lorin M. Sims at the said address of record having been returned by the post office undeliverable, notice is hereby given that unless said Lorin M. Sims, his assigns or legal representatives shall enter an appearance therein, within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Sept. 2 1952.)

Aug. 12, 1952.

JOHN A. MARZALL,
Commissioner of Patents.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,394,738, L. P. Anthony, Internal-combustion engine, decided Aug. 1, 1952, claims 2, 3, 4, and 5.

Pat. 2,469,231, H. Klemperer, Electrical precipitators, decided June 4, 1952, claim 1.

Pat. 2,509,416, J. M. Blackhall, Automatic telephone system, decided July 24, 1952, claims 7, 8, 14, 15, 39, and 40.

Pat. 2,552,345, L. A. Philipp, Refrigerating apparatus, decided Aug. 6, 1952, claim 1.

PROPOSED CHANGES
IN THE
RULES OF PRACTICE IN PATENT AND TRADE-MARK CASES

Notice is hereby given that the United States Patent Office proposes to amend certain rules and regulations relating to patents and trade-marks. The amendments are proposed to be issued pursuant to the authority contained in Title 35, United States Code, sections 6, 116, 119, 121, 141, 145, 146, as enacted July 19, 1952, Public Law 593, chapter 950, 66 Stat. 792, and other authority.

All persons who desire to submit written data, views, arguments or suggestions, for consideration in connection with the proposed amendments, are invited to forward the same to the Commissioner of Patents, Washington 25, D. C., on or before October 15, 1952. An oral hearing is not scheduled.

The text of the proposed amendments follows.

1. Patent Rule 6 is proposed to be amended by cancelling paragraph (*d*) and by changing paragraph (c) to read as follows:

(c) In addition to being mailed or delivered by hand during office hours, letters and other papers may be deposited up to midnight in a box provided at the guard's desk at the 14th and E Street entrance of the Patent Office on weekdays except Saturdays and holidays, and all papers deposited therein are considered as received in the Patent Office on the day of deposit.

2. Patent Rule 7 is proposed to be amended by changing the second sentence to read:

When the day, or the last day, fixed by statute or by or under these rules for taking any action or paying any fee falls on Saturday, Sunday, or on a holiday within the District of Columbia, the action may be taken, or the fee paid, on the next succeeding day which is not a Saturday, Sunday, or a holiday.

3. Patent Rule 21 is proposed to be amended by:

(*a*) Adding the following line to Item 4:

For each claim in excess of twenty and also in excess of the number of claims in the original patent---------- 1.00

(*b*) Changing "15.00" to "25.00" in Item 7.

(*c*) Changing ".50" to "1.00" in Item 9.

(*d*) Changing ".50" to "1.00", both occurrences, in Item 14.

(*e*) Adding new Item 31 reading as follows:

For certificate of correction of applicant's mistake---------- 10.00

4. Patent Rule 41 is proposed to be amended to read as follows:

41 **Applicant for patent.** A patent must be applied for and the application papers must be signed and the necessary oath executed by the actual inventor in all cases, except as provided by rules 42, 43, and 47. See rule 147.

Unless the contrary is indicated, the word "applicant" when used in these rules refers to the inventor, joint inventors who have applied for a patent, or to the person mentioned in rules 42, 43, or 47 who has applied for a patent in place of the inventor.

5. Patent Rule 43 is proposed to be amended to read as follows:

43 **When the inventor is insane or legally incapacitated.** In case an inventor is insane or otherwise legally incapacitated, the legal representative of such inventor may sign the application papers and make the necessary oath, and apply for and obtain the patent.

6. Patent Rule 44 is proposed to be amended to read as follows:

In the cases mentioned in rules 42 and 43, proof of the power or authority of the legal representative must be recorded in the Patent Office before the grant of a patent.

7. Patent Rule 45 is proposed to be amended by adding the following paragraph:

(c) If an application for patent has been made through error and without any deceptive intention by less than all the actual joint inventors, the application may be amended to include all the joint inventors upon filing a statement of the facts verified by, and an oath as required by rule 65 executed by, all the actual joint inventors, provided the amendment is diligently made.

8. Patent Rule 46 is proposed to be amended to read as follows:

In case the whole or a part interest in the invention or in the patent to be issued is assigned, the application must still be made by the inventor or one of the persons mentioned in rules 42, 43, or 47.

9. Patent Rule 47 is proposed to be amended to read as follows:

47 **Filing by other than inventor.** (*a*) If a joint inventor refuses to join in an application for patent or cannot be found or reached after diligent effort, the application may be made by the other inventor on behalf of himself and the omitted inventor. Such application must be accompanied by proof of the pertinent facts and must state the last known address of the omitted inventor. The Patent Office shall forward notice of the filing of the application to the omitted inventor at said address. Should such notice be returned to the Office undelivered, or should the address of the omitted inventor be unknown, notice of the filing of the application shall be published in the OFFICIAL GAZETTE. The omitted inventor may subsequently join in the application. If the omitted inventor is available but refuses to join in the application after notice has been given, the Office may refuse a patent on said application. A patent may be granted to the inventor making the application, subject to the same rights which the omitted inventor would have had if he had been joined.

(*b*) Whenever an inventor refuses to execute an application for patent, or cannot be found or reached after diligent effort, a person to whom the inventor has assigned or agreed in writing to assign the invention or who otherwise shows sufficient proprietary interest in the matter justifying such action may make application for patent on behalf of and as agent for the inventor. Such application must be accompanied by proof of the pertinent facts and a showing that such action is necessary to preserve the rights of the parties or to prevent irreparable damage, and must state the last known address of the inventor. The assignment, written agreement to assign or other evidence of proprietary interest must be recorded in the Patent Office at the time of filing the application. The Office shall forward notice of the filing of the application to the inventor at the address stated in the application. Should such notice be returned to the Office undelivered, or should the address of the inventor be unknown, notice of the filing of the application shall be published in the OFFICIAL GAZETTE. The inventor may subsequently join in the application. If the inventor is available but refuses to join in the application after notice has been given, the Office may refuse a patent on said application; otherwise a patent may be granted to the inventor.

10. Patent Rule 55 is proposed to be amended by adding the following paragraph:

The benefit of the filing date of a prior application filed in a foreign country may be obtained under the conditions specified in 35 U. S. C. 119. The certified copy of the original foreign application specified in the second paragraph of 35 U. S. C. 119 must be filed within six months from the date of the first Office action or within the time specified in rule 224. If there is no first Office action other than a notice of allowance the copy must be filed at the time or before the final fee is paid. If the papers filed are not in the English language they must be accompanied in all cases by a sworn translation or a translation certified as accurate by a sworn or official translator. In any case allowed prior to January 1, 1953, the required papers may be filed at any time prior to the issuance of the patent and the translation is not required.

11. Patent Rule 57 is proposed to be amended by substituting the following for the first sentence:

The application must be signed by the applicant in person. The signature to the oath will be accepted as the signature to the application provided the oath is attached to and refers to the petition, specification and claim to which it applies.

12. Patent Rule 58 is proposed to be cancelled.

13. Patent Rule 61 is proposed to be amended by cancelling the third paragraph and amending the first paragraph to read as follows:

The petition must be addressed to the Commissioner of Patents and request the grant of a patent. The residence, and post office address of the petitioner must appear in the petition if not stated elsewhere in the application. The petition need not be separately signed when part of and attached to the complete application papers, otherwise it must be signed by the petitioner.

14. Patent Rule 65 is proposed to be amended by cancelling paragraph (*d*) and amending paragraphs (*a*) and (*b*) to read as follows:

(*a*) The applicant, if the inventor, must make oath or affirmation that he does verily believe himself to be the original and first inventor or discoverer of the process, machine, manufacture, composition of matter or improvement thereof, for which he solicits a patent; that he does not know and does not believe that the same was ever known or used before his invention or discovery thereof, and shall state of what country he is a citizen and where he resides, and whether he is a sole or joint inventor of the invention claimed in his application. In every original application the applicant must distinctly state under oath that to the best of his knowledge and belief the invention has not been in public use or on sale in the United States for more than one year prior to his application, or patented or described in any printed publication in any country before his invention or more than one year prior to his application, or patented in any foreign country prior to the date of his application on an application filed by himself or his legal representatives or assigns more than twelve months prior to his application in this country. If any application for patent has been filed in any foreign country by the applicant in this country, or by his legal representatives or assigns, prior to his application in this country, he shall state the country or countries in which such application has been filed, giving the date of such application, and shall also state that no application has been filed in any other country or countries than those mentioned. In the case of the first filed foreign application and each foreign application filed more than twelve months prior to the application in this country, the day, month and year of filing must be given. If no application for patent has been filed in any foreign country, he shall so state. This oath must be subscribed to by the affiant.

(*b*) If the application is made as provided in rules 42, 43, or 47, the oath shall state the relationship of the affiant to the inventor and, upon information and belief, the facts which the inventor is required by this rule to make oath to.

15. Patent Rule 66 is proposed to be amended by changing the first sentence to read as follows:

The oath or affirmation may be made before any person within the United States authorized by law to administer oaths, or, when made in a foreign country, before any diplomatic or consular officer of the United States authorized to

administer oaths, or before any officer having an official seal and authorized to administer oaths in the foreign country in which the applicant may be, whose authority shall be proved by a certificate of a diplomatic or consular officer of the United States, the oath being attested in all cases in this and other countries, by the proper official seal of the officer before whom the oath or affirmation is made. Such oath or affirmation shall be valid as to execution if it complies with the laws of the state or country where made.

16. Patent Rule 76 is proposed to be amended to read as follows:

The specification and claim need not be signed when part of and attached to the complete application papers, otherwise they must be signed by the inventor in person. See rule 57.

17. Patent Rule 78 is proposed to be amended by substituting for the first sentence:

When an applicant files an application claiming an invention disclosed in a prior filed copending application of the same applicant, the second application must contain a reference to the prior application, identifying it by serial number and filing date and indicating the relationship of the applications if the benefit of the filing date of the prior application is claimed. Prior applications of the same applicant disclosing an invention claimed must be referred to in a separate paper if there is no reference in the application itself.

18. Patent Rule 82 is proposed to be amended to read as follows:

Signatures are not required on the drawing if it accompanies and is referred to in the other papers of the application, otherwise the drawing must be signed by the applicant in person.

19. Patent Rule 84 is proposed to be amended by cancelling the words "in pencil" in paragraph (*l*) and by changing paragraph (*h*) to read:

(*h*) The signature of the applicant, if the drawing is signed, must be placed completely below the lower marginal line on each sheet; in any event the name of the inventor must be legibly written or printed below the lower marginal line on each sheet.

20. Patent Rule 93 is proposed to be amended to read as follows:

When the invention relates to a composition of matter, the applicant may be required to furnish specimens of the composition, or of its ingredients or intermediates, for the purpose of inspection or experiment.

21. Patent Rule 141 is proposed to be amended by cancelling from the beginning of the section up to the word "more" and substituting:

Two or more independent and distinct inventions may not be claimed in one application, except that.

22. Patent Rule 142 is proposed to be amended by changing paragraph (*a*) to read as follows:

If two or more independent and distinct inventions are claimed in a single application, the Examiner in his action shall require the applicant in his response to that action to elect that invention to which his claims shall be restricted, this official action being called a requirement for division. If the divisibility of the inventions be clear, such requirement will be made before any action on the merits; however, it may be made at any time before final action in the case, at the discretion of the Examiner.

23. Patent Rule 143 is proposed to be amended by cancelling paragraph (*b*) and adding the following sentence to the first paragraph:

The requirement for division will be reconsidered on such a request.

24. Patent Rule 144 is proposed to be amended to read as follows:

144 Petition from requirement for division. After a final requirement for division the applicant, in addition to making any response due on the remainder of the action, may petition to the Commissioner from the requirement. Petition may be deferred until after final action on or allowance of the claims to the invention elected. Petition may not be taken if reconsideration of the requirement was not requested. (See rule 181.)

25. Patent Rule 145 is proposed to be amended by cancelling the last sentence.

26. Patent Rule 172 is proposed to be amended by changing the first paragraph to read as follows:

Reissue applications must be signed and sworn to by the inventors except as otherwise provided (see rules 42, 43, 47), and must be accompanied by the written assent of all assignees, if any, owning an undivided interest in the patent, provided, however, that a reissue application may be made and sworn to by the assignee of the entire interest if the application does not seek to enlarge the scope of the claims of the original patent.

27. Patent Rule 175 is proposed to be amended by changing paragraphs (*b*), (*c*), (*d*), and (*e*) to read as follows:

(*b*) When it is claimed that such patent is so inoperative or invalid "by reason of a defective specification or drawing," particularly specifying such defects.

(*c*) When it is claimed that such patent is inoperative or invalid "by reason of the patentee claiming more or less than he had a right to claim in the patent," distinctly specifying the excess or insufficiency in the claims.

(*d*) Particularly specifying the errors relied upon, and how they arose or occurred.

(*e*) That said errors arose "without any deceptive intention" on the part of the applicant.

28. Patent Rule 191 is proposed to be amended by cancelling "and every applicant who has been twice required to divide his application (rule 143)," in paragraph (*a*) and changing "rules 144 and" to "rule" in paragraph (*c*).

29. Patent Rule 197 is proposed to be amended by cancelling the second paragraph and adding the following two paragraphs:

Any request or petition for rehearing or reconsideration must be filed within twenty days from the date of the decision.

When an appeal is or stands dismissed, or when the time for appeal to the court or review by civil action (rule 303) has expired and no such appeal or civil action has been filed, proceedings in the application are considered terminated except in those applications in which claims stand allowed or in which the nature of the decision requires further action by the Examiner. If an appeal to the court or a civil action has been filed, proceedings in the application are similarly considered terminated when the appeal or civil action is terminated.

30. Patent Rule 223 is proposed to be amended by changing the second sentence of paragraph (*a*) to read:

This includes joint applicants or patentees; a new preliminary statement will not be received in the event the application is amended or the patent is corrected to remove the names of those not inventors, nor will a preliminary statement alleging different dates be received if an application is amended or a patent is corrected to include a joint inventor, except by motion under rule 222.

31. Patent Rule 224 is proposed to be amended by changing the second sentence to read:

If an earlier filed application in the United States is set forth in the preliminary statement, said earlier filed application cannot be relied upon unless the case in interference contains or is amended to contain a specific reference to the earlier filed application, provided that such a specific reference is not essential in patents granted prior to January 1, 1953. If a prior foreign application is set forth in the preliminary statement, said foreign application cannot be relied upon unless the necessary papers to prove a date of priority under 35 U. S. C. 119, as specified in rule 55, are filed within three months, or within such extension of time as may be granted, from the filing of the preliminary statement, if they have not previously been filed.

32. Patent Rule 226 is proposed to be amended by changing the second paragraph to read:

The notices will ordinarily specify the motion period (rule 231) and may also include an order to show cause (rule 225).

33. Patent Rule 233 is proposed to be amended by changing paragraph (*b*) to read:

(*b*) Such motions must, if possible, be made within the time set, but if a motion to dissolve the interference has been brought by another party, such motions may be made within thirty days from the filing of the motion to dissolve. In case of action by the Primary Examiner under rule 237(*a*), such motions may be made within thirty days from the date of the Primary Examiner's decision on motion wherein an action under rule 237(*a*) was incorporated or the date of the communication giving notice to the parties of the proposed dissolution of the interference.

34. Patent Rule 251 is proposed to be amended by changing paragraph (*b*) to read:

(*b*) The time for taking testimony will ordinarily be assigned in notices sent to the parties after motions under rules 232 to 235 have been determined or, if no such motions have been filed, after the close of the motion period (rule 231). The date for final hearing will ordinarily be set in the same notices.

35. Patent Rule 256 is proposed to be amended by changing the third paragraph to read:

Petitions for rehearings or modification of the decision must be filed within twenty days from the date of the decision.

36. Patent Rule 263 is proposed to be amended to read as follows:

The disclaimer referred to in rule 262, when made by a patentee in interference is not a disclaimer under 35 U. S. C. 253. If a disclaimer under the statute, see rule 321, cancelling claims involved in the interference from the patent, is made by the patentee, including all assignees as shown by the records of the Patent Office, the interference will be dissolved pro forma as to such claims.

37. Patent Rule 302 is proposed to be amended by changing the first paragraph to read as follows:

When an appeal is taken to the U. S. Court of Customs and Patent Appeals, the appellant shall give notice thereof to the Commissioner, and file in the Patent Office, within the time specified in rule 304 his reasons of appeal specifically set forth in writing.

38. New Patent Rule 304 is proposed, reading as follows:

304 Time for appeal or civil action. The time for filing the notice and reasons of appeal to the U. S. Court of Customs and Patent Appeals (rule 302) or for commencing a civil action (rule 303) is sixty days from the date of the decision of the Board of Appeals or the Board of Patent Interferences. If a petition for rehearing or reconsideration is filed within twenty days after the date of the decision of the Board of Appeals or Board of Patent Interferences, the time is extended to thirty days after action on the petition. No petition for rehearing or reconsideration filed more than twenty days after such decision, nor any proceedings on such petition shall operate to extend the period of sixty days hereinabove provided. If a defeated party to an interference has taken an appeal to the U. S. Court of Customs and Patent Appeals and an adverse party has filed notice that he elects to have all further proceedings conducted under 35 U. S. C. 146 (rule 303(*c*)), the time for filing a civil action thereafter is specified in 35 U. S. C. 141.

In the case of decisions of the Board of Appeals and Board of Patent Interferences, and decisions on appeal to the Commissioner in trade-mark cases, rendered prior to January 1, 1953, the time for appeal or for filing a civil action is the time specified in the statute and rules in effect immediately prior to January 1, 1953.

39. Patent Rule 305 is proposed to be amended by changing the number to 303 and the text to read:

303 Civil action under 35 U. S. C. 145, 146. (*a*) Any applicant dissatisfied with the decision of the Board of Appeals, and any party dissatisfied with the decision of the Board of Patent Inter-

ferences, may, instead of appealing to the U. S. Court of Customs and Patent Appeals (rule 301), have remedy by civil action under 35 U. S. C. 145 and 146 respectively. Such civil action must be commenced within the time specified in rule 304.

(*b*) If an applicant in an ex parte case has taken an appeal to the U. S. Court of Customs and Patent Appeals, he thereby waives his right to proceed under 35 U. S. C. 145.

(*c*) If a defeated party to an interference proceeding has taken an appeal to the U. S. Court of Customs and Patent Appeals, and any adverse party to the interference shall, within twenty days after the appellant shall have filed notice of the appeal to the court (rule 302), file notice with the Commissioner that he elects to have all further proceedings conducted as provided in 35 U. S. C. 146, certified copies of such notices will be transmitted to the U. S. Court of Customs and Patent Appeals for such action as may be necessary. The notice of election must be served as provided in rule 248.

40. Patent Rule 314 is proposed to be amended by changing "one month" in the second sentence to "five weeks" and by changing "fourth" in the last sentence to "fifth".

41. Patent Rule 321 is proposed to be amended to read as follows:

A disclaimer under 35 U. S. C. 253 must comply with the requirements of the statute and must also identify the patent and the claim or claims subject to the disclaimer, and be signed by the person making the disclaimer, who shall state therein the extent of his interest in the patent. Such disclaimers are not examined except as to formal matters, but a disclaimer observed not to be a disclaimer in fact may be refused, and the recording of a disclaimer does not indicate that it is considered by the Patent Office to be proper or valid or that the patent after disclaimer, or any claim thereof, is considered valid. A notice of the disclaimer is published in the OFFICIAL GAZETTE and attached to the printed copies of the specification.

In like manner any patentee or applicant may disclaim or dedicate to the public the entire term, or any terminal part of the term, of the patent granted or to be granted.

See rule 21 for fee for disclaimer.

42. Patent Rule 322 is proposed to be amended by cancelling ", with the consent of the patentee (or assignee of record, if any)", in the second paragraph.

43. Patent Rule 323 is proposed to be amended to read as follows:

323 **Certificate of correction of applicant's mistake.** Whenever a mistake of a clerical or typographical nature or of minor character which was not the fault of the Office, appears in a patent and a showing is made that such mistakes occurred in good faith, the Commissioner may, upon payment of the required fee, issue a certificate of correction, which shall be endorsed on the patent itself, if the correction does not involve such changes in the patent as would constitute new matter or would require re-examination.

44. New Patent Rule 324 is proposed, reading as follows:

324 **Correction of error in joining inventor.** Whenever a patent is issued and it appears that there was a misjoinder or non-joinder of inventors and that such joinder or omission occurred by error and without deceptive intention, the Commissioner may, on application of all the parties and the assignees and proof of the facts, or on order of a court before which such matter is called in question, issue a certificate deleting the misjoined inventor from the patent or adding the non-joined inventor to the patent.

45. New Patent Rule 325 is proposed, reading as follows:

325 **Other mistakes not corrected.** Mistakes other than those provided for in rules 322, 323, 324, and not affording legal grounds for reissue will not be corrected after the date of the patent.

46. Trade-Mark Rule 1.6 is proposed to be amended to read as follows:

1.6 **Times for taking action; expiration on Saturday, Sunday or holiday.** Whenever periods of time are specified in these rules in days, calendar days are intended unless otherwise indicated. When the day, or the last day, fixed by statute or by or under these rules for taking any action or paying any fee falls on Saturday, Sunday, or on a holiday within the District of Columbia, the action may be taken, or the fee paid, on the next succeeding day which is not a Saturday, Sunday, or a holiday.

47. Trade-Mark Rules 26.2 and 26.3 are proposed to be amended by adding the following paragraph to each:

Petition for rehearing or reconsideration must be filed within twenty days from the date of the decision.

48. Patent Rules 13, 21, 42, 45, 67, 71, 75, 77, 84, 147, 154, 162, 164, 206, 207, 209, 216, 217, 226, 232, 233, 236, 241, 243, 247, 253, 254, 255, 256, 258, 259, 277, 282, 301, 311, 322, 331, Trade-Mark Rules 4.6, 26.4 are also proposed to be amended by changing citations of statutes to agree with the new patent act (Public Law 593, approved July 19, 1952, chapter 950, 66 Stat. 792), by changing references to other rules to agree with revisions in the rules, by changing words or phrases to agree with corresponding words or phrases as used in the new patent act, or by clarifying language in some instances.

These proposed changes in the rules were published in the Federal Register for August 27, 1952.

JOHN A. MARZALL,
Commissioner of Patents.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,260,923. Fish Trap-Hook. Patented Oct. 28, 1941. Spring-biased fish hook is held in set position by a trigger bar. As a fish is in the act of taking the baited hook, the lip of the fish will actuate the trigger so that a released compression spring will snap the hook into its mouth before the fish has sensed danger through being pricked by the point of the hook. (Owner) James P. Thompson, P. O. Box 900, Louisville, Ky. Group 39—49. Reg. No. 48,588.

Pat. 2,453,744. Lathe. Patented Nov. 16, 1948. Attachment may be mounted on a conventional lathe to operate a chuck in an elliptical path for the production of elliptical forms. Attachment carries a micrometer device to facilitate accurate adjustment and variation of the ellipse axes. The lathe head has a hollow drive shaft to which a drive member is secured. A stationary shaft extending through the member and hollow shaft carries a circular block nested in a cavity of the member. A driven element, having an axial threaded extension for detachable connection to a chuck, fits within jaws of the drive member for rotation therewith, and for radial reciprocating movement with respect to the axis of rotation. The block carries an adjustable eccentric pin engaging a slide block in a transverse groove in the driven element to reciprocate the driven element as it is rotated. (Owner) H. Darden Chambliss, 3714 Simms Ave., S. E., Albuquerque, N. Mex. Group 35—41—43. Reg. No. 48,589.

Pat. 2,588,754. Infant's Feeding Table. Patented Mar. 11, 1952. A specially constructed table has a sliding top panel which, when extended, creates a well in the top of the table into which a chair may be inserted, and which, when retracted, allows for normal use as a table. The chair when removed from the table is of itself useful for a child. The assembled chair and table are designed to function as a safe and convenient feeding and play table for a baby, the child being seated in the chair and surrounded by the table top so that dishes, toys, and other articles may be placed on the table conveniently at hand. (Owner) Sam B. Novi, P. O. Box 1431, Sharp Park, Calif. Group 25—11. Reg. No. 48,590.

Pat. 2,581,244. Surface Grinder for Mill Housings and the Like. Patented Jan. 1, 1952. Grinder may be readily attached to a rolling mill housing to refinish worn surfaces of the housing. A pair of ways are removably attached to the vertical side edges of the housing just prior to the grinding operation, and the framework of a grinding assembly is then detachably and slidably mounted on the ways. A feed screw reciprocates a carriage on the framework. Limit switches to be contacted by the carriage actuate reversing mechanism for instantaneously reversing the direction of rotation of the feed screw. A cross head adjustably mounted on the carriage carries a bracket in which a grinder is mounted. Suitable counterweights are provided for readily raising and lowering the entire grinding assembly so that it may be vertically adjusted on the ways. (Owner) Lukens Steel Company. Correspondence to Howson and Howson, 123 South Broad St., Philadelphia 9, Pa. Group 35—41. Reg. No. 48,591.

Pat. 2,590,317. Track Locating Device for Toy Trains. Patented Mar. 25, 1952. By using this track-locating device, an entire toy train may be quickly assembled upon a track without the usual trouble and bother of improperly located car trucks, which prevent movement of the train. The invention consists of a single piece of sheet metal formed with several converging rail guide portions to facilitate alignment of toy car trucks and the wheels of cars or locomotives with respect to the train rails proper. The invention may be positioned anywhere on the rails in snap-on and -off relationships, so that after alignment of cars it may be quickly removed. (Owner) Walter Henderson, 1201 South 8th Ave., Maywood, Ill. Group 39—41. Reg. No. 48,592.

Pat. 2,490,881. Stroke-Adjusting Mechanism. Patented Dec. 13, 1949. Mechanism facilitates adjustment of the stroke of the ram of a shaping or planing machine without stopping the machine and in a manner to assure maximum safety to the operator. A rocker arm of the mechanism is connected at its lower end to a crankshaft bearing of the machine, and at its upper end by a link to a reciprocatory ram supported by the machine housing. The lower end of a connecting rod is secured to the crankshaft of the machine. The upper end of the rod and the lower ends of two links are connected by a bearing pin. One of the links is connected to the rocker arm, and the upper end of the other link carries a bolt extending outwardly through an arcuate slot in the side of the machine housing. A nut may be adjusted on the outer end of the bolt, and the bolt adjusted along the arcuate slot to vary the stroke of the rocker arm and thus vary the stroke of the ram. (Owner) William G. Peters, 424 North Harvey Ave., Oak Park, Ill. Group 35—41. Reg. No. 48,593.

Pat. 2,590,040. Vehicle Guiding Means. Patented Mar. 18, 1952. Means for guiding a four-wheel vehicle is adaptable to toy vehicles or to any size or type of vehicle that must follow a certain path, such as coal cars in mine tunnels. The front axle of the vehicle is pivotally mounted about a vertical axis secured to the under frame of the vehicle at a point forwardly of the front axle. A fork member is secured to the front axle and extends downwardly and forwardly of the front axle so that it may be cooperatively associated with a continuous guide rail of flexible material, in order to make available varied shapes of the rail to define the orbit of travel of the vehicle when impetus is imparted to it. (Owner) Charles H. Rose, 8132 Dante Ave., Chicago, Ill. Groups 35—33—63; 39—41. Reg. No. 48,594.

Pat. 2,581,036. Brassière. Patented Jan. 1, 1952. A combination brassière and shoulder brace designed to improve the posture of the wearer. The shoulder straps are adjustably laced together at the back to give the desired draw to the shoulders while supporting the bust. (Owner) Evelyn McIlhinney, 227 Bank St., Suite 6, Ottawa, Ontario, Canada. Group 23—42. Reg. No. 48,595.

Pat. 2,573,374. Method for Producing Lactams by Rearrangement of Cyclic Ketoximes. Patented Oct. 30, 1951. A continuous method of producing lactams from cyclic ketoximes. The ketoximes are dissolved in an inert solvent having a boiling point between 40° C. and 160° C. which is immiscible with water and sulfuric acid. The ketoxime solution is introduced into a preheated solution of sulfuric acid. Rearrangement to the lactam takes place as the heat evaporates the solvent. The lactam is recovered from the mixture, the vapors of the solvent condensed, and the condensed solvent recycled to dissolve further quantities of ketoxime. (Owner) Chemické závody na Slovensku, národný podnik. Correspondence to Michael S. Striker, 511 Fifth Ave., New York 17, N. Y. Group 28—89. Reg. No. 48,596.

Pat. 2,587,067. Vehicle Jack. Patented Feb. 26, 1952. A lifting jack for automobiles or other vehicles may be operated from a standing position of the operator. A pair of parallel lifting supporting levers are pivoted to a carrier having rollers engaging trackways of the base of jack. A load seat plate is pivoted to the free ends of the supporting levers. A bracing lever is pivoted to the supporting levers intermediate their ends and to the base. A brace bar is pivoted to the seat plate and to carrier. The carrier is moved along the base by a rotatable feed screw to raise or lower the supporting levers. The jack is flat when collapsed and may be placed beneath a spring, axle, or other part of a vehicle. (Owner) Rudolph Sachtleber, 67 North 14th St., East Orange, N. J. Groups 33—52; 38—31. Reg. No. 48,597.

General Electric Company offers the patents listed below for non-exclusive licensing, on reasonable terms, to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

The following 5 patents relate to: A chain conveyer for conveying sheathed welding electrodes or rods into and through furnaces operating at suitably high temperatures; an electric heater of the sheathed heating unit type; a condition control system for control of temperature of enclosures, such as buildings, industrial heating furnaces, and the like; a high frequency heater for drying or curing materials, such as textiles, rayon, rubber, plastics, paper, and the like; and a snap action switch having positive contact pressure until the moment of operation.

Pat. 2,144,547. Chain Conveyer. Jan. 17, 1939. Group 35—62. Reg. No. 48,598.

Pat. 2,227,159. Electric Heater. Dec. 31, 1940. Group 36—19. Reg. No. 48,599.

Pat. 2,387,562. Condition Control System. Oct. 23, 1945. Group 36—19. Reg. No. 48,600.

Pat. 2,512,311. High-Frequency Heating Apparatus. June 20, 1950. Group 36—19—21. Reg. No. 48,601.

Pat. 2,582,034. Snap Action Switch. Jan. 8, 1952. Group 36—11. Reg. No. 48,602.

The following 4 patents relate to: A method of preparing a moisture-resistant, flexible, glass fiber product; electric control circuits; a mass spectrometer for separating ions according to their mass-to-charge ratios; and a cast heat-resistant alloy.

Pat. 2,278,207. Spun Glass Products. Mar. 31, 1942. Group 32—29. Reg. No. 48,603.

Pat. 2,442,518. Electric Control Circuit. June 1, 1948. Group 36—19. Reg. No. 48,604.

Pat. 2,570,158. Method and Apparatus for Separating Charged Particles of Different Mass-To-Charge Ratios. Oct. 2, 1951. Group 39—13. Reg. No. 48,605.

Pat. 2,575,915. Nickel Base High-Temperature Alloy. Nov. 20, 1951. Group 34—19—29—72. Reg. No. 48,606.

The following 7 patents relate to: A frame structure for steam-turbine generator units; a hydraulic governing system for the throttling valve of a fluid pressure prime mover, such as a steam turbine; a lubricating system for large gear units, such as a reduction gear unit for marine propulsion; a mechanical linkage for a turbine valve lift mechanism of the multiple cam type; a cooling arrangement for a high pressure elastic fluid multi-stage turbine; a multi-stage steam turbine diaphragm arrangement and method of assembly; and a hydraulic governing system designed especially for steam turbines in the small size range, such as are used for driving refrigerant compressors, fans, boiler feed pumps, etc.

Pat. 2,531,178. Frame Structure for Turbine-Generator Prime Movers. Nov. 21, 1950. Group 35—11. Reg. No. 48,607.

Pat. 2,534,974. Pressure Change Amplifier for Hydraulic Governing Systems. Dec. 19, 1950. Group 35—61. Reg. No. 48,608.

Pat. 2,535,703. Lubricating System for Gear Units. Dec. 26, 1950. Groups 35—66; 38—31. Reg. No. 48,609.

Pat. 2,543,649. Linkage for Hydraulic Actuators. Feb. 27, 1951. Group 35—11. Reg. No. 48,610.

Pat. 2,552,239. Turbine Rotor Cooling Arrangement. May 8, 1951. Group 35—11. Reg. No. 48,611.

Pat. 2,556,890. Turbine Diaphragm Arrangement and Method of Assembly. June 12, 1951. Group 35—11. Reg. No. 48,612.

Pat. 2,566,892. Turbine Type Pump for Hydraulic Governing Systems. Sept. 4, 1951. Group 35—61. Reg. No. 48,613.

The following 2 patents relate to refrigerating apparatus. Group 35—84.

Pat. 2,585,645. Folding Lid for Open Topped Cabinets. Feb. 12, 1952. Reg. No. 48,614.

Pat. 2,590,061. Industrial Liquid Cooler Automatic Liquid Level Control. Mar. 18, 1952. Reg. No. 48,615.

The following 11 patents relate to: Dynamoelectric machines; gyroscopes; a solenoid-operated alarm; an electrical humidity indicator; a reactance element for use in filter networks, oscillator circuits, and the like; an electronic time-delay system which affords measured time delays of long duration; control system for electric clothes driers and the like; and a method of making vinyl chloride.

Pat. 2,582,790. Supervised Electrical Alarm. Jan. 15, 1952. Group 36—62. Reg. No. 48,616.

Pat. 2,585,024. Temperature Compensated Floated Gyroscope. Feb. 12, 1952. Group 36—13. Reg. No. 48,617.

Pat. 2,589,983. Electrical Indicator of Mechanical Expansion. Mar. 18, 1952. Group 36—13. Reg. No. 48,618.

Pat. 2,589,999. Dynamoelectric Machine. Mar. 18, 1952. Group 36—19. Reg. No. 48,619.

Pat. 2,590,058. Motor Switch Assembly. Mar. 18, 1952. Group 36—19. Reg. No. 48,620.

Pat. 2,590,753. Reactance Tube Circuit. Mar. 25, 1952. Group 36—62. Reg. No. 48,621.

Pat. 2,590,783. Electronic Time-Delay System. Mar. 25, 1952. Group 36—61. Reg. No. 48,622.

Pat. 2,590,796. Brush Mechanism. Mar. 25, 1952. Group 36—19. Reg. No. 48,623.

Pat. 2,590,798. Gyroscopic Direction Indicator. Mar. 25, 1952. Group 36—13. Reg. No. 48,624.

Pat. 2,590,808. Control System for Laundry Driers and the Like. Mar. 25, 1952. Groups 35—81; 36—19. Reg. No. 48,625.

Pat. 2,590,810. Preparation of Vinyl Chloride. Mar. 25, 1952. Group 28—83. Reg. No. 48,626.

The following 14 patents are available for non-exclusive licensing in the field of radio purposes on reasonable terms to domestic manufacturers. Group 36—61.

Pat. 2,577,119. Jointure for Prefabricated Structures. Dec. 4, 1951. Reg. No. 48,627.

Pat. 2,581,177. Frequency Conversion System for Superheterodyne Radio Receivers. Jan. 1, 1952. Reg. No. 48,628.

Pat. 2,581,211. Range Tracking Pulse Echo System. Jan. 1, 1952. Reg. No. 48,629.

Pat. 2,581,997. Electron Tube Structure and the Manufacture Thereof. Jan. 8, 1952. Reg. No. 48,630.

Pat. 2,582,045. Tunable Velocity Modulated Electron Discharge Device. Jan. 8, 1952. Reg. No. 48,631.

Pat. 2,583,785. Biasing Protective System for High-Power Oscillators. Jan. 29, 1952. Reg. No. 48,632.

Pat. 2,583,793. Magnetron Anode. Jan. 29, 1952. Reg. No. 48,633.

Pat. 2,583,801. Frequency Multiplier Circuit. Jan. 29, 1952. Reg. No. 48,634.

Pat. 2,585,636. Receiving Antenna. Feb. 12, 1952. Reg. No. 48,635.

Pat. 2,585,929. Synchronizing System for Resonant Circuit Oscillators. Feb. 19, 1952. Reg. No. 48,636.

Pat. 2,585,930. Synchronizing System. Feb. 19, 1952. Reg. No. 48,637.

Pat. 2,587,305. Broad Band Electrical Discharge Device. Feb. 26, 1952. Reg. No. 48,638.

Pat. 2,588,094. Continuous Wave Detection System. Mar. 4, 1952. Reg. No. 48,639.

Pat. 2,588,921. Oscillator Synchronizing System. Mar. 11, 1952. Reg. No. 48,640.

General Electric Company is prepared to grant *non-exclusive licenses to industrial concerns under the following patent on a reasonable royalty basis* to manufacture, use, and sell synchrotrons, and is further prepared to grant *free non-exclusive licenses under such patent to educational or similar institutions* to construct synchrotrons by the use of the institutions' own facilities and to use such synchrotrons for non-profit purposes.

Pat. 2,579,315. Resonator Structure. Dec. 18, 1951. Resonator structure particularly useful in apparatus for imparting high energy to charged particles. Group 36—19. Reg. No. 48,641.

Correction

Pat. 2,223,169, Control System, Reg. No. 48,121, Register Section, OFFICIAL GAZETTE, July 1, 1952, should read Pat. 2,233,169.

Patent Removed from Register

Pat. 2,415,814. Cable Cutting Method and Device. This patent, which was listed by E. I. du Pont de Nemours & Co. in the Register Section of the OFFICIAL GAZETTE, Mar. 14, 1950, has been assigned.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 2, 1952

[VOL. 662. No. 1]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 525,878. Keuffel & Esser Company, Hoboken, N. J. Filed July 3, 1947. Under section 5b of the act of 1905, as amended in 1920. Under 10-year proviso.

KEUFFEL & ESSER CO.

For Measuring and Scientific Appliances—Namely, Drawing Instruments Comprising Compasses, Dividers, Proportional Dividers, Bow Instruments, Beam Compasses, Railroad Pens, Dotting Pens, Trammels, Drawing Pens, and Perambulators (or Opisometers); Protractors, Draftsman's or Linear Scales, Rules, Triangles, Curves, Straightedges and T-Squares, Drawing Boards, Drawing Pins and Horncenters, Measuring Tapes, Pantographs, Parallel Rules, Railroad Curves, Splines and Spline Weights, Lineads (Centrolineads), Drawing Tables, Surveying Instruments Comprising Levels, Engineers' Y Levels, Transits, Engineers' Transits and Parts Thereof, Theodolites, Dumpy Levels and Magnetic Compasses; Leveling Screws, Level Vials, Hand Levels, Leveling Rods, Leveling Poles, Surveyors' Targets, Leveling Targets, Measuring Chains, Surveyors' Arrows, Plumb Bobs, Handles for Tapes, Section Liners, Triangular Scale Guards, Folding Pocket Rules, Barometers, Aneroid Barometers, Magnifying Glasses, Planimeters, Map Measures, Mathematical Calculating Instruments, Slide Rules, Tripods for Levels and Transits, Sextants, Mining Compasses, Surveying Compasses, Tripods and Jacob Staffs, Clinometers, Angle Mirrors and Prisms, Anemometers or Wind-Gauges, Field and Marine Glasses, Paper Base Photosensitive Reproduction Materials, Print Frames and Bath Trays, Folding Trestles for Drawing Boards, Architects' Levels, Mining Lamp and Plummet, Pocket Alt-Azimuth, Staff Heads, Pedometers and Odometers, Erasing Fluid for Photo-Images, Soler Attachment for Surveying Instruments, Extension Tripods, Plane Tables, Alidades, Octants, Artificial Horizons, Trigonometers, Cloth and Other Base Photosensitive Reproduction Materials, Mountings for Exposing Print Frames, Band Chains (Sometimes Known as Chain Measuring Tapes), Print Holding Spring Clips, Extension Measures, Shrinkage Rules, Spring Joint Steel Rules, Mining Target With Lamp, Expedition Transit, Architect's Level With Compass, Railroad Y Level, Railroad Transit, Locating Transit, Traverse Tables, Military Compass, Telemeter Target, Rain Gauges, Current Meters, Thread Counters, Tree Calipers, Increment Borers, Spyglasses, Lettering Sets Consisting of Lettering Pens, Lettering Templates, Lettering Scribers, and Other Lettering Devices, Bark Measuring Instruments and Drafting Machines.

Claims use since 1868.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 594,125. J. M. Huber Corporation, Red Bank, N. J., and New York, N. Y. Filed Mar. 17, 1950. (Sec. 2f.)

HI-WHITE

The word "White" is disclaimed.

For Clay.

Claims use since Oct. 1, 1938.

CLASS 2

RECEPTACLES

Ser. No. 551,227. Carrier-Stephens Company, Lansing, Mich. Filed Mar. 5, 1948.

STEEL-X

The word "Steel" is disclaimed.

For Metal Crates for Protecting Carboys, Bottles, Earthenware Jugs, and Similar Fragile Containers for Liquids, During Their Transportation and Storage.

Claims use since July 3, 1941.

Ser. No. 585,756. Manahan Moth Paper Company, New York and Brooklyn, N. Y. Filed Oct. 4, 1949. (Sec. 2f.)

CEDARTRUE

For Paper Garment Bags.
Claims use since 1933.

Ser. No. 618,219. R. E. Tongue & Bros. Co., Inc., Philadelphia, Pa. Filed Aug. 29, 1951.

Big Chief

For Paper and Metal Bottom Cartons.
Claims use since Aug. 1, 1948.

Ser. No. 618,904. Arthur Beck Company, Chicago, Ill. Filed Aug. 4, 1951.

ARTBECK BASTER

The word "Baster" is disclaimed.
For Bulb-Type Syringe.
Claims use since Apr. 11, 1941.

Ser. No. 624,243. Sterling E. Norcross, doing business as The C-Mail Company, Bloomfield, N. J. Filed Jan. 29, 1952.

PHONEMAIL

For Plastic Container—Namely, a Box Sold Empty for Household Use To Retain Printed Forms.
Claims use since Jan. 10, 1951.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 594,113. Edward Freeman, Philadelphia, Pa. Filed Mar. 17, 1950.
The outline of the tag is disclaimed.

Melmaster

For Luggage—Namely, Men's and Women's Travelling Bags and Cases, Week End Bags, Wardrobe Cases, Pullman Cases, Valises, and Overnight Bags.
Claims use since November 1945.

Ser. No. 614,719. Helena Rubinstein, Inc., New York, N. Y. Filed June 4, 1951.

HELENA RUBINSTEIN

The name "Helena Rubinstein" is that of the founder and president of applicant-corporation, who has given her written consent to use her name as a trade-mark.
For Ladies' Handbags, Fitted Cases for Cosmetics and Toiletries, Ladies' Evening Bags.
Claims use since 1928.

Ser. No. 621,645. Annie Oakley Enterprises, Los Angeles, Calif., assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif., a corporation of California. Filed Nov. 26, 1951.

ANNIE OAKLEY

Among other meanings, the words "Annie Oakley" were the pseudonym of the famous woman sharp-shooter, Phoebe Mozee, now deceased.
For Women's and Girls' Handbags, Wallets and School Bags.
Claims use since Oct. 12, 1951.

CLASS 5

ADHESIVES

Ser. No. 614,226. Union Bay State Chemical Co., Inc., Cambridge, Mass. Filed May 22, 1951.

UBS

For Natural and Synthetic Rubber Latex Adhesives, Natural and Synthetic Resin Adhesives, Adhesive Cement, and Solvents Used in the Manufacture of Adhesives.
Claims use since June 1942.

Ser. No. 618,675. Bradstone Rubber Company, doing business under the name and style of Park Cement & Chemical Co., Woodbine, N. J. Filed Sept. 12, 1951.

PARTEX

For Liquid Adhesive Cement Containing Rubber for Use in Shoe Repair.
Claims use since August 1944.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 601,577. Silby Chemical Corporation, Miami, Fla. Filed Aug. 1, 1950. (Classified in Class 52.) The words "Sponge Rub" and "Dog" are disclaimed. See this serial number in Class 6 for goods and mark. Claims use since March 1950.

Ser. No. 615,754. Chapman Chemical Company, Memphis, Tenn. Filed June 27, 1951.

POL-NU

For Wood Preservatives Consisting of Pentachlorophenol in a Petroleum Grease Base.
Claims use since June 14, 1951.

Ser. No. 615,819. Chilean Nitrate Sales Corporation, New York, N. Y. Filed June 28, 1951.



The mark consists of green colored triangular areas at top corners of the bag in which the goods are packed. The drawing is lined for green. The representation of a bag is disclaimed. Applicant claims ownership of Registrations Nos. 335,543 and 346,839.
For Nitrate of Soda-Potash.
Claims use since May 8, 1951.

Ser. No. 621,042. West Disinfecting Company, Long Island City, N. Y. Filed Nov. 8, 1951.

HALOPHORS

For Chemical Preparations Soluble in Water Used To Carry Halogens Into Aqueous Solutions in All Dilutions.
Claims use since Dec. 14, 1950.

Ser. No. 621,906. Richardson Butane Gas Company, Inc., Columbus, Miss. Filed Nov. 30, 1951.

Etholane

For Butane and Propane Gas.
Claims use since Oct. 15, 1951.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 623,705. Bowers Lighter Company, Kalamazoo, Mich., assignor to Brown and Bigelow, St. Paul, Minn., a corporation. Filed Jan. 17, 1952.

WIND-MASTER

For Pyrophoric Pocket Lighters.
Claims use since Mar. 15, 1936.

CLASS 10

FERTILIZERS

Ser. No. 597,208. Heeman Manufacturing Co., Wooster, Ohio. Filed May 10, 1950.

Keepees

For Soil Fertilizers.
Claims use since Apr. 24, 1950.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 524,931. Armstrong Cork Company, Lancaster, Pa. Original filed, act of 1905, June 27, 1947; amended to application under act of 1946, Principal Register, Feb. 24, 1948. (Sec. 2f.)

ARMSTRONG A CORK COMPANY

The words "Cork Company" are disclaimed. Applicant claims ownership of Registrations Nos. 55,475, 94,859, and others.
For Water Emulsion Wax for Use in the Maintenance of Resilient Floor Coverings; Specially Prepared Asphalt Protective Finish Coatings for Use in Covering Cork Insulation After Installation Thereof; Aluminum Coatings for Application Against Asphaltic Finishes Used on Insulation for Cold Rooms; Deadening Compositions for Desks Composed of Asphalt or Asphalt and Rubber; Floor and Wall Sizes for Use in Priming Subfloors and Walls Prior to the Application of Adhesives Thereto in the Installation of Resilient Floor and Wall Coverings; Asphalt Primers—Namely, Asphaltic Compositions for Priming Masonry, Concrete, Portland Cement, and Plaster Surfaces Prior to the Erection of Insulation Material in Hot Asphalt or Cold Erection Plastic, and Asphaltic Compositions for Priming Steel or Other Metal Surfaces Before Application of Low Temperature Insulation in Either Hot Asphalt, Cold Erection Plastic, or Adhesives; Asphalt Emulsions Capable of Being Trowelled and Serving as a Finished Coating for Corkboard Insulation; Dressing Compositions of the Varnish Type for Use in Imparting a Slick Surface to Textile Fiber Drafting Surfaces Such as Cots and Aprons; and Zinc Chromate Deck Primer for Priming Decks Before Application of Non-Skid Floor Coverings Thereto.
Claims use since Dec. 1, 1938, on the mark as shown; and since Dec. 14, 1888, as to the circle and "A."

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 544,785. Speed Products Company, Inc., Long Island City, N. Y. Filed Dec. 18, 1947. (Classified in Class 23.) (Sec. 2f as to "Speed.")

The word "Fastener" is disclaimed. Applicant claims ownership of Registration No. 246,812.

See this serial number in Class 23 for goods and mark.

Claims use since May 15, 1926.

Ser. No. 565,984. Watts Regulator Co., Lawrence, Mass. Filed Sept. 27, 1948. (Sec. 2f.)

WATTS

Applicant claims ownership of Registration No. 282,741.

For Pressure Regulator Safety Devices—Namely, Feed Water Regulators, Pressure Regulators, Damper Regulator Valves, Reducing Valves, Relief Valves, Pressure and Vacuum Valves, Boiler Water Feeders, Low Water Cut-Offs.

Claims use since 1874.

Ser. No. 584,837. Reynolds Metals Company, Richmond, Va., doing business under the trade name Lifetime Cookware, La Grange, Ill. Filed Sept. 14, 1949.

DURA-MAID

For Cooking Utensils—Namely, Pots, Pans, and Other Receptacles Used for Cooking.

Claims use since May 6, 1949.

Ser. No. 587,876. The Kraissl Company, Inc., Hackensack, N. J. Filed Nov. 16, 1949. (Sec. 2f.)

KRAISSL

For Air Strainers, Strainers for Oils, Steam, Gasoline, Grease Extraction, and Cooling Water; Duplex Strainers for Oils, Steam, Gasoline, Grease Extraction, and Cooling Water; Convertible Strainers; Marine Fuel Strainers, and Strainer Baskets of Various Meshes for Use in Such Strainers.

Claims use since Aug. 10, 1939.

Ser. No. 606,141. Gas & Oil Industry Laboratories Incorporated, Irvington, N. J. Filed Nov. 9, 1950.

IL G

For Gas Appliance Check Valves and Pressure Valve Regulators.

Claims use since Nov. 9, 1940.

Ser. No. 611,959. F. C. Kingston Company, Los Angeles, Calif. Filed Mar. 29, 1951.

K

For Valves—Namely, Angle Valves, Bleeder Valves, By-Pass Valves, Check Valves, Drain Valves, Four-Way Valves, Globe Valves, Hoist Valves, Quick Opening Valves, Reducing Valves, Safety Valves, Shutoff Valves, Stop Valves, Whistle Valves, and Water Regulating Valves.

Claims use since on or about May 1, 1922.

Ser. No. 612,985. Alofs Manufacturing Company, Grand Rapids, Mich. Filed Apr. 23, 1951.

AMC

For Chain Door Stops, Door Supported Garment Hanger Brackets, and Anchor Nuts.

Claims use since 1942.

Ser. No. 613,868. Club Aluminum Products Company, Chicago, Ill. Filed May 15, 1951.

club Art craft

Applicant claims ownership of Registrations Nos. 309,002, 309,004, and others.

For Drip Coffee Makers, Percolators, and Vacuum Coffee Makers, Made of Heat Resistant Glass.

Claims use since Apr. 19, 1951.

Ser. No. 616,160. Carlon Products Corporation, Cleveland, Ohio. Filed July 6, 1951.



The drawing is lined for the color yellow.

For Conduits Made of Polymeric Material, Such as Polyethylene, Cellulose Acetate, Cellulose Acetate Butyrate, Co-Polymerized Vinyls, Polystyrene and Co-Polymers Thereof.

Claims use since Jan. 3, 1950.

Ser. No. 616,165. General Ceramics and Steatite Corporation, Keasbey, N. J. Filed July 6, 1951.

CHEMPLAS

For Valves—Namely, Check Valves, Safety Valves, Plug Cocks; and Special Valves and Pipe Fittings—Namely, Bell and Spigot Pipes, Flanged Pipes, Elbows, T's, Y's, Crosses, Reducers, Blank Flanges, Caps, Cleanout Plugs, Traps, Spacers, and Reducing Fittings.

Claims use since Mar. 15, 1951.

Ser. No. 620,810. Le Creuset, Fresnoy-le-Grand (Aisne), France. Filed Nov. 2, 1951.

LE CREUSET

The drawing is lined for shading only. Applicant claims ownership of French Registration No. 1,024, dated May 23, 1951.

For Household Iron Ware, Cooking Iron Ware, Household Enameled Iron Ware; Cooking Enameled Iron Ware—Namely, Pot With Handleless Lid; Stew Pan; Kitchen Pots and Pans; Saucepans With Lip; Saucepans Without Lip; Handled Saucepans With or Without Lip; Rimmed Lids; Stew Pot With Lid; Low Stew Pot; Round Dish With or Without Lid; Oval Dish With or Without Lid; Round, Oval, Polygonal Dishes and Pie Dishes; Fluted Pots and Pans; Fluted Saucepans; Egg Dish and Plate; Fish Dish and Plate; Souffle Dish; Timbale Dish; Italian Deep "Au Gratin" Dish; French Fryer; French Fried Potatoes Casserole; Frying Pans; Snail Dish and Plate; Tossing Pans, Round Casserolette; Rectangular Half-Deep and Deep Dish; Oval Sided "Au Gratin" Dish; Round or Oval French Oven With Lid; Deep or Shallow, Round or Oval "Au Gratin" Dish.

Claims use since 1926; and use in commerce between France and the United States since 1936.

CLASS 15

OILS AND GREASES

Ser. No. 607,982. Central Petroleum Company, Cleveland, Ohio. Filed Dec. 22, 1950. (Sec. 2f.)

CEN-PE-CO

SUPER.REFINED

TRACTRUK OIL

The words "Super-Refined" and "Oil" are disclaimed. Applicant claims ownership of Registrations Nos. 201,328, 283,713, and others.

For Lubricating Oils.

Claims use since Oct. 1, 1924, on "Cen-Pe-Co"; and since May 1, 1945, on the mark as shown.

Ser. No. 617,683. Universal Refining Products Co., Inc., New York, N. Y. Filed Aug. 14, 1951.

SLUDGENEMY

For Chemical Compound for Removing Sludge From Fuel and Diesel Oil by Adding It to the Oil.

Claims use since Feb. 11, 1938.

Ser. No. 619,960. Aldridge Industrial Oils, Inc., Cleveland, Ohio. Filed Oct. 13, 1951.

QUENZINE

For Additives for Quenching Oils.

Claims use since Jan. 9, 1950.

Ser. No. 624,426. Southwestern Petroleum Co., Inc., Fort Worth, Tex. Filed Feb. 1, 1952.

SOTOL

For High Temperature Resistant Grease for Tractors and Other Heavy Duty Equipment.

Claims use since Jan. 15, 1952.

Ser. No. 624,540. R. M. Hollingshead Corporation, Camden, N. J. Filed Feb. 5, 1952.

HUSH-SHAK

For Lubricating Oils for Lubricating and Preserving Rubber Parts of All Types of Vehicles and Engines, and for Aiding in the Mounting of Tires and Tire Tubes.

Claims use since November 1938.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 524,931. Armstrong Cork Company, Lancaster, Pa. Original filed, act of 1905, June 27, 1947; amended to application under act of 1946, Principal Register, Feb. 24, 1948. (Classified in Class 12.) (Sec. 2f.)

The words "Cork Company" are disclaimed. Applicant claims ownership of Registrations Nos. 55,475, 94,859, and others.

See this serial number in Class 12 for goods and mark. Claims use since Dec. 1, 1938, on the mark as shown; and since Dec. 14, 1888, as to the circle and "A."

Ser. No. 606,933. Chemische Werke Albert, Amoneburg, Germany. Filed Nov. 25, 1950.

Alpex

Applicant claims ownership of German Registration No. 518,482, dated July 19, 1938.

For Synthetic Resins in Granular or Liquid Form for Use as Binders in Lacquers and Paints.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 584,394. Casimir Funk Laboratories, Inc., New York, N. Y. Filed Sept. 2, 1949.

gravilac

For Pharmaceutical Preparation of Vitamins and Minerals for Expectant and Nursing Mothers.

Claims use since July 8, 1949.

Ser. No. 600,513. Schenley Laboratories, Inc., New York, N. Y. Filed July 11, 1950.

AQUACILLIN-D.A.

Applicant claims ownership of Registrations Nos. 530,226, 527,867, and 529,930.

For Pharmaceutical Preparations Containing Penicillin for Intramuscular Injection.

Claims use since Mar. 3, 1949.

Ser. No. 607,300. Schering Corporation, Bloomfield, N. J. Filed Dec. 5, 1950.

METHOSTAN

For Anabolic Agent of Steroid Nature.

Claims use since Sept. 19, 1950.

Ser. No. 609,610. E. R. Squibb & Sons, New York, N. Y. Filed Feb. 3, 1951.

PRENDEROL

For Anticonvulsants.

Claims use since Oct. 3, 1950.

Ser. No. 609,611. E. R. Squibb & Sons, New York, N. Y. Filed Feb. 3, 1951.

STRYCIN

For Streptomycin Preparation.

Claims use since Nov. 2, 1950.

Ser. No. 613,062. Geigy Company, Inc., New York, N. Y. Filed Apr. 24, 1951.

NOVAZINE

Applicant claims ownership of Registration No. 281,629.

For Spasmolytic Used Particularly for the Treatment of Peptic Ulcers.

Claims use since Nov. 29, 1950.

Ser. No. 614,070. Strong, Cobb and Company, Inc., Cleveland, Ohio. Filed May 18, 1951.

TERGAMINE

For Ergot Preparation, Particularly Ergotamine Tartrate in the Form of an Injectable Solution or Dispersion.

Claims use since May 4, 1951.

Ser. No. 614,241. Cetylite Industries, Inc., New York and Long Island City, N. Y. Filed May 23, 1951.

CETYLAMINE

Applicant claims ownership of Registration No. 444,137.

For Antiseptic and Disinfecting Agent for Surface Antisepsis.

Claims use since Nov. 28, 1950.

Ser. No. 614,392. Dr. Salsbury's Laboratories, Charles City, Iowa. Filed May 24, 1951.

Histostat

For Preparation for the Treatment of Poultry Diseases and Growth Stimulation in Fowl, Especially for the Treatment and Control of Blackhead in Chickens and Turkeys.

Claims use since Jan. 18, 1951.

Ser. No. 614,703. Makers of Kal, Inc., Los Angeles, Calif. Filed June 4, 1951.

Kalamino

For Protein Hydrolysate, as a Source of Amino Acids and Natural B Complex.

Claims use since May 17, 1951.

Ser. No. 614,734. White Laboratories, Inc., Newark, N. J. Filed June 4, 1951.

ESTAN

For Preparation Containing a Combination of Dienestrol and Methyltestosterone.

Claims use since May 17, 1951.

Ser. No. 615,266. Bristol-Myers Company, New York, N. Y. Filed June 16, 1951.

IPANA

Applicant claims ownership of Registration No. 105,039.

For Penicillin Tooth Powder.

Claims use since Feb. 15, 1951.

Ser. No. 617,535. Church Chemical Company, Chicago, Ill. Filed Aug. 10, 1951.

THERGOT

For Medicinal Product Containing Ergotoxine or Similar or Related Alkaloid Derived From Ergot, Together With Acetylsalicylic Acid, Caffeine and Acetophenetidin, Such Material in Tablet, Powder, or Liquid Form To Be Administered Sublingually or Via the Gastrointestinal Tract, for the Treatment of Migraine Headache, or Related Conditions.

Claims use since Apr. 30, 1951.

Ser. No. 618,239. Martin and Pledger, Chicago, Ill. Filed Aug. 30, 1951.

FACTS RUB

The word "Rub" is disclaimed.

For Liquid Preparation for Pains Due to Sprained Muscles, Sore Ligaments, and Sprains.

Claims use since Feb. 26, 1950.

Ser. No. 618,820. Schering Corporation, Bloomfield, N. J. Filed Sept. 14, 1951.

STERATRIN

For Hormone Preparation, Being a Combination of Sex Hormones for the Treatment of Steroid Conditions.

Claims use since June 19, 1951.

Ser. No. 618,821. Schering Corporation, Bloomfield, N. J. Filed Sept. 14, 1951.

TRIHEMONE

For Hormone Preparation Being a Combination of Sex Hormones for the Treatment of Steroid Conditions.

Claims use since June 19, 1951.

Ser. No. 618,995. Henry K. Wampole & Company, Incorporated, Philadelphia, Pa. Filed Sept. 19, 1951.

SULFATRYL

For Compound of Meth-Dia-Mer Sulfonamides With Sodium Citrate.

Claims use since July 27, 1951.

Ser. No. 619,734. Barber & Bennett, Inc., Albany, N. Y. Filed Oct. 9, 1951. (Sec. 2f.)

TRUMINERAL

Applicant claims ownership of Registration No. 501,977.

For Dietary Supplement for Use in Animal and Livestock Feed.

Claims use since January 1946.

Ser. No. 619,782. Allied Laboratories, Inc., Kansas City, Mo. Filed Oct. 10, 1951.

COCCIQUIN

For Solution of Sodium Sulfaquinoxaline in Excess Sodium Hydroxide for the Control of Coccidiosis in Fowl and Domestic Animals.

Claims use since June 15, 1949.

Ser. No. 619,785. Allied Laboratories, Inc., Kansas City, Mo. Filed Oct. 10, 1951.

ESTOPHEROL

For Preparation Containing Conjugated Estrogens, Vitamin E Concentrate, and Phenobarbital.

Claims use since Feb. 1, 1950.

Ser. No. 620,078. Dr. Eugene Donat, Toronto, Ontario, Canada. Filed Oct. 12, 1951.

NETOLYT

Applicant claims ownership of Canadian Registration No. 39,055/153, dated July 12, 1951.

For Ferment (Enzyme) Preparations for Internal Use Against Human and Animal Parasites.

Ser. No. 620,286. Wyeth Incorporated, Philadelphia, Pa. Filed Oct. 20, 1951.

ADJUDETS

Applicant claims ownership of Registrations Nos. 349,029, 349,030, 402,986, and others.

For Amphetamine-Multivitamin Troches.

Claims use since Sept. 24, 1951.

Ser. No. 622,625. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Dec. 17, 1951.

BENEMID

Applicant claims ownership of Registrations Nos. 367,931 and 547,248.

For Medicinal Preparation for Use as an Anticatabolite and/or as an Adjuvant in Antibacterial Therapy and/or as a Uricosuric Agent in the Treatment of Chronic Gouty Arthritis and the Interval Treatment of Gout.

Claims use since Feb. 27, 1950.

Ser. No. 624,495. E. S. Miller Laboratories, Inc., Los Angeles, Calif. Filed Feb. 4, 1952.

MISTRONE

For Estrogenic Preparation.
Claims use since Dec. 3, 1951.

Ser. No. 624,641. The Geriatric Pharmacal Company, New York, N. Y., assignor to The Geriatric Pharmacal Corp., New York, N. Y., a corporation of New York. Filed Feb. 7, 1952.

GERI - LIPO

For Product, in Tablet Form, for Reduction of Cholesterol in Arteries.
Claims use since on or about Nov. 1, 1951.

Ser. No. 624,642. The Geriatric Pharmacal Company, New York, N. Y., assignor to The Geriatric Pharmacal Corp., New York, N. Y., a corporation of New York. Filed Feb. 7, 1952.

GERI - OXYN

For Product, in Tablet Form, for Reduction of Cholesterol in Arteries.
Claims use since on or about Nov. 1, 1951.

Ser. No. 624,687. James J. Kennedy, Newark, N. J. Filed Feb. 8, 1952.

CHLOROPINE

For Antiseptic Massage Oil.
Claims use since Jan. 2, 1951.

Ser. No. 624,742. Hoffmann-La Roche Inc., Nutley, N. J. Filed Feb. 9, 1952.

ARFONAD

For Antihypertension Compound.
Claims use since Feb. 1, 1952.

Ser. No. 624,852. Schenley Laboratories, Inc., New York, N. Y. Filed Feb. 12, 1952.

PEDIACILLIN

For Penicillin Product for Oral Use.
Claims use since Sept. 27, 1951.

Ser. No. 624,853. Schenley Laboratories, Inc., New York, N. Y. Filed Feb. 12, 1952.

PEDIAPEN

For Penicillin Product for Oral Use.
Claims use since Sept. 27, 1951.

Ser. No. 624,950. Jackson-Mitchell Pharmaceuticals, Inc., Los Angeles, Calif. Filed Feb. 14, 1952.

Kolifol

For Lipotropic Formula Preparation Used in the Treatment of Atherosclerosis and Fatty Degeneration of the Liver.
Claims use since Jan. 1, 1952.

Ser. No. 626,539. Schieffelin & Co., New York, N. Y. Filed Mar. 15, 1952.

PAXINE

For Antispasmodic, in Tablet Form.
Claims use since Jan. 15, 1952.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 576,098. National Automotive Parts Association, Detroit, Mich. Filed Mar. 25, 1949. COLLECTIVE MARK. (Sec. 2f.)

N.A.P.A.
National Automotive Parts Association
Assurance of Quality

All wording with the exception of "National" and the letters "N. A. P. A." is disclaimed except when used in conjunction with the remainder of the mark. Applicant claims ownership of Registration No. 211,037.

For Electrical Cords, Wires, and Cables, Spark Plug Wires, Primary Wires, Lighting Wires, Battery Cables, Electrical Tips, Terminals, Bushings and Connectors; Electric Ignition Coils and Parts.

Claims use since April 1940 as to the mark shown; and since August 1925 as to a substantial portion of the mark including the letters "N. A. P. A." and an outline map of the United States.

Ser. No. 601,735. Kellogg Switchboard and Supply Company, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, a corporation of Delaware. Filed Aug. 4, 1950. (Sec. 2f.)

KELLOGG

Applicant claims ownership of Registrations Nos. 206,899, 279,167, and others.

For Electrical Apparatus, Machines, and Supplies, Parts Thereof and Accessories Therefor—Namely, Telephones or Telephone Sets, Telephone Transmitting Apparatus, Telephone Receiving Apparatus, and Component Parts; Telephone Switchboards and Auxiliary Central-Office Telephone Apparatus and Component Parts; Selective Switching and Selective Signalling Apparatus and Component Parts; Electrical Wires, Cables, and Conductors; Cable Terminating Strips and Blocks and Mountings Therefor; Electric Circuit Protective Apparatus—Namely, Lightning Arrestors, Fuses, and Circuit Breakers; Telephone Repeaters, Signal Amplifiers, Converters, Modulators, and Demodulators and Component Parts; Speech and Other Sound Amplifying Apparatus and Component Parts; Carrier-Current Transmitting and Receiving Apparatus and Component Parts; Communication Circuit Components—Namely, Artificial Lines, Electric-Wave Filters, and Tuners.

Claims use since some years prior to 1905.

Ser. No. 603,524. General Control Company, Boston, Mass. Filed Sept. 14, 1950.

FOOTROL

For Electrical Switches.
Claims use since July 7, 1950.

Ser. No. 611,719. Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y. Filed Mar. 20, 1951.

PRD

For Electrical Apparatus for the Transmission and Control of High Frequency Electric Waves—Namely, Transition Coupling Adapters for Coaxial Lines, Waveguide-to-Coaxial Cable Coupling Adapters, Waveguide Stands, and Terminations for Coaxial Lines.

Claims use since June 1948.

Ser. No. 611,844. Hoffman Radio Corporation, Los Angeles, Calif. Filed Mar. 27, 1951.

HIGH Q

For Television Receiving Sets.
Claims use since Jan. 22, 1951.

Ser. No. 612,366. Capehart-Farnsworth Corporation, Fort Wayne, Ind. Filed Apr. 7, 1951. (Sec. 2f.)

Capehart

Applicant claims ownership of Registrations Nos. 298,297, 302,049, and others.

For Television Receiving Sets, Alone or in Combination With Radio Receiving Sets and/or Phonographs, All Electrically Operated.

Claims use since March 1928.

Ser. No. 613,376. Fred F. Kurth, Bakersfield, Calif. Filed May 1, 1951. (Sec. 2f.)

KURTH

For Storage Batteries.
Claims use since June 7, 1941.

Ser. No. 614,841. Raytheon Manufacturing Company, Newton, Mass. Filed June 6, 1951.

Raytheon

Applicant claims ownership of Registration No. 529,164.

For Radio Broadcast Receivers, Television Receivers, and Radio, Television, and Phonograph Combinations.

Claims use since on or about Mar. 21, 1949.

Ser. No. 615,231. Werner J. Larson, doing business as The Ohmweve Company, West Hartford, Conn. Filed June 15, 1951.

Ohmweve

The mark consists of the word "Ohmweve."

For Electrical Resistors.

Claims use since on or about May 8, 1951.

Ser. No. 617,237. Thomas A. Edison, Incorporated, West Orange, N. J. Filed Aug. 2, 1951.



Thomas A. Edison, whose portrait and signature appear in the trade-mark, died Oct. 18, 1931. Applicant claims ownership of Registrations Nos. 34,806, 60,343, and others.

For Storage Batteries.

Claims use since at least as early as Dec. 30, 1948.

Ser. No. 617,505. Lindeteves Inc., New York, N. Y. Filed Aug. 9, 1951.



The drawing is lined for shading only.

For Portable Electric Drills and Portable Electric Drill Stands, Hand Supported Portable Electric Sanders, Hand Supported Portable Electric Valve Seat Grinders and Parts Thereof, Hand Supported Portable Electric Polishers, Generators, Cables, and Spark Plugs.

Claims use since September 1950.

Ser. No. 617,991. Hale's Bedding Stores, Inc., New York, N. Y. Filed Aug. 23, 1951.

Light Fantastic

The word "Light" is disclaimed.

For Electrical Lighting Fixture.

Claims use since July 13, 1950.

Ser. No. 624,393. Columbia Cable & Electric Corporation, Brooklyn, N. Y. Filed Feb. 1, 1952.

METRITE

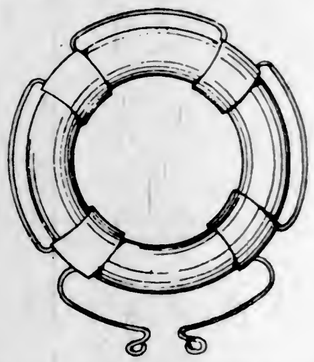
For Electrical Conduits.

Claims use since Dec. 18, 1951.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 594,812. Société à Responsabilité Limitée Viellard-Migeon & Co., Morvillars (Ter. de Belfort), France. Filed Mar. 28, 1950.



The mark consists of the representation of a life preserver together with a rope secured thereto. Applicant claims ownership of French Registration No. 936, dated May 21, 1949.

For Fishing Devices and Accessories—Namely, Fish Hooks, Spoons, Reels, Fish Lines, Line Guides for Fishing Poles, Sinkers, and Artificial Bait.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 496,122. Barnaby Manufacturing and Tool Company, Bridgeport, Conn. Original filed, act of 1905, Feb. 7, 1946; amended to application under act of 1946, Principal Register, May 26, 1948.

BETTER *Barnaby* TOOLS

The words "Tools" and "Better" are disclaimed.

For Drill Chucks, Knurling Tools, Tap Holders, Die Holders for Screw Machines and Lathes, Hollow Mill Holders, Stops for Screw Machines and Lathes, Bushing Blanks and Bushings for Screw Machines and Lathes, Box Tools for Screw Machines and Lathes, and Bar Stock Feeds.

Claims use since Dec. 21, 1945.

Ser. No. 542,186. Thor Corporation, Chicago, Ill. Filed Nov. 24, 1947. (Sec. 2f.)

ELECTRO-RINSE

Applicant claims ownership of Registration No. 383,263.

For Fluid Discharge Apparatus Including a Pump, Conduit, Fixtures for Supporting Conduit, Control Means for the Pump, for Use in Connection With Laundry Machines.

Claims use since Aug. 14, 1939.

Ser. No. 544,785. Speed Products Company, Inc., Long Island City, N. Y. Filed Dec. 18, 1947. (Sec. 2f as to "Speed.")

SPEED FASTENER

The word "Fastener" is disclaimed. Applicant claims ownership of Registration No. 246,812.

For Stapling Machines, Pliers, and/or Tackers Each of the Hand Operated Type and Inverted U-Shaped Wire Staples Adhesively Secured in a Unitary Stack Formation and Requiring External Support in a Magazine of Said Stapling Machines, Pliers or Tackers, Sold as a Unit With Said Staples Adapted To Have the Foremost Staple of Said Stack Severed and Expelled From Said Magazine for Securing Together Paper, and/or Cloth, and/or Flexible Material.

Claims use since May 15, 1926.

Ser. No. 546,042. The Auto-Soler Company, doing business as The Auto-Nailer Company, Atlanta, Ga. Filed Jan. 14, 1948. (Sec. 2f as to "Auto Nailer"—Additional evidence.)

AUTO NAILER

The word "Model" is disclaimed. Applicant claims ownership of Registration No. 409,794.

For Fastener Forming and Inserting Machines Particularly Adapted for Use in Woodworking Operations and the Like.

Claims use since Nov. 7, 1947, on the mark as shown; and since Feb. 22, 1941, on the words "Auto Nailer."

Ser. No. 575,677. Stokes and Smith Company, Philadelphia, Pa. Filed Mar. 18, 1949.

STOKESWRAP

For Packaging Machines for Forming, Filling and Sealing Packages Made of Web Material, Such as Heat-Sealing Film, Paper, or Foil.

Claims use since Mar. 1, 1948.

Ser. No. 575,678. Stokes and Smith Company, Philadelphia, Pa. Filed Mar. 18, 1949.

STOKESWRAP

For Packaging Machines for Forming, Filling and Sealing Packages Made of Web Material, Such as Heat-Sealing Film, Paper, or Foil.

Claims use since Mar. 1, 1948.

Ser. No. 582,787. Byron Jackson Co., Los Angeles, Calif. Filed Aug. 1, 1949.

BJ

Applicant claims ownership of Registration No. 272,853.

For Well Tools—Namely, Hooks, Elevators, Links, Tongs, Slip Actuators, Slips, Spiders, Rotary Drive Bushings, Tubing Catchers, Tool Braces, Tubing Bleeders, Underreamers, Cat Line Grips, Coring Drills, Subs, Breaker Boxes, Breaker Plates, Packer Pullers, T Bars, Balls, Followers, Bits, Core Pusher Rods, and Parts Therefor.

Claims use since on or about Feb. 1, 1929.

Ser. No. 589,390. Peters & Russell, Inc., Springfield, Ohio. Filed Dec. 15, 1949.

V-JET

For Automobile Exhaust Extensions.

Claims use since Apr. 2, 1948.

Ser. No. 594,296. Thompson Tool Company, Iowa Park, Tex. Filed Mar. 20, 1950. (Sec. 2f as to "Thompson.")

THOMPSON TOOL CO.

The words "Tool Co." and "Co" are disclaimed.

For Shale Separators, Mud Mixers, Rock Bits, and Sampling Machines, Which Are Miniature Shale Separators, Through Which Samples of Drilling Fluid and Cuttings Are Directed for the Removal of Solids Therefrom, To Enable Said Samples of Solids To Be Subsequently Analyzed.

Claims use since 1933.

Ser. No. 595,766. Concrete Sawing Equipmen , Inc., Pasadena, Calif. Filed Apr. 15, 1950.

CONCUT

For Power-Driven Concrete Saws and Parts Thereof.

Claims use since Mar. 1, 1946.

Ser. No. 603,327. Gas-Kit Co., Glastonbury, Conn. Filed July 27, 1950.

GAS-KIT

The word "Kit" is disclaimed.

For Tool Kits—Namely, Containers Having Mounted Therein Drills, Files, Reamers, Wrenches, and the Like Tools.

Claims use since Mar. 20, 1950.

Ser. No. 614,372. Trison Manufacturing Co., Jersey City and Newark, N. J. Filed May 25, 1951.

TRISON

For Lathe Parts—Namely, Tool Post Turrets, Carriage Bed Turrets, and Tail Stock Turrets.

Claims use since May 5, 1951.

Ser. No. 615,091. Vendorlator Manufacturing Company, Fresno, Calif. Filed June 12, 1951.



The drawing is lined for the colors gold and silver.
For Vending Machines.
Claims use since Apr. 11, 1951.

Ser. No. 617,298. Walter Kidde & Company, Inc., Belleville, N. J. Filed Aug. 3, 1951. (Sec. 2f.)

RICH

Applicant claims ownership of Registration No. 137,898.
For Fire Detecting Apparatus Comprising a Set of Conduits Leading From Protected Compartments or Spaces to a Centrally Located Terminal Observation Cabinet, a Fan for Drawing Smoke From Fire in Any of the Compartments or Spaces to the Cabinet for Visual Observation.
Claims use since Nov. 15, 1919.

Ser. No. 624,438. S. H. Kress and Company, New York, N. Y. Filed Jan. 26, 1952.

DICTATOR

Applicant claims ownership of Registrations Nos. 294,280, 295,564, and others.
For Razor Blades.
Claims use since June 1, 1931.

Ser. No. 624,566. Paul R. Paradise, doing business as "Dav" Razor Blade Co., Chicago, Ill. Filed Feb. 5, 1952.

"DAV"

For Razor Blades.
Claims use since Jan. 21, 1952.

Ser. No. 624,785. William M. Kirk, doing business under the name of Bill Kirk Mfg. Co., Amarillo, Tex. Filed Feb. 11, 1952.

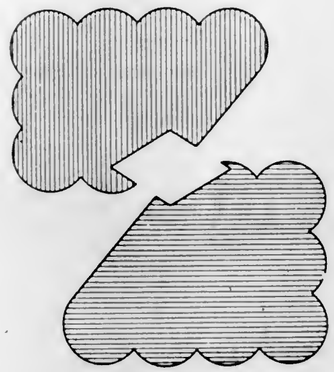
Little Scratch

For Automatic, Stationary, Mechanical Livestock Oilers and Insecticide Applicators, Operated Upon Stock Bodily Rubbing or Scratching Against Operative Parts of the Same.
Claims use since Oct. 3, 1951.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 588,280. The Diamond Match Company, New York, N. Y. Filed Nov. 25, 1949.



The drawing is lined for red and blue.
For Clothespins.
Claims use since Dec. 26, 1946.

Ser. No. 596,253. The Apex Electrical Manufacturing Company, Cleveland, Ohio. Filed Apr. 25, 1950.

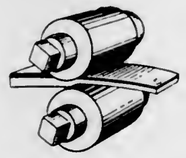
WASH·A·MATIC

The word "Wash" is disclaimed. Applicant claims ownership of Registration No. 337,470.
For Washing Machines and Parts Therefor.
Claims use since Nov. 25, 1949.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 608,070. Krementz & Company, Newark, N. J. Filed Dec. 26, 1950. (Sec. 2f—Additional evidence.)



For Articles of Jewelry—Namely, Cuff Links, Collar Buttons, Necktie Holders, Belt Buckles, Necklaces, Earrings, Brooches, and Bracelets, All Made in Part of Precious Metals.
Claims use since 1941.

Ser. No. 621,308. Coro, Inc., New York, N. Y. Filed Nov. 16, 1951.

DEBONEAR

For Earrings, for Personal Wear and Adornment.
Claims use since July 1951.

Ser. No. 622,178. Stylord Manufacturing Co., Inc., New York, N. Y. Filed Dec. 6, 1951.

STYLADY

For Watch Bands.
Claims use since Nov. 30, 1951.

Ser. No. 622,179. Stylord Manufacturing Co., Inc., New York, N. Y. Filed Dec. 6, 1951.

STYLORD

For Watch Bands.
Claims use since Nov. 30, 1951.

Ser. No. 622,450. Originalities of New York, Inc., New York, N. Y. Filed Dec. 13, 1951.

DREAM-GIRL

For Children's, Teen-Agers', and Ladies' Necklaces, Wrist Bracelets, Ankle Bracelets, Brooches, and Ear Rings.
Claims use since Oct. 15, 1948.

Ser. No. 623,321. Swank, Inc., Attleboro, Mass. Filed Jan. 8, 1952. (Sec. 2f.)

NU-LOK

Applicant claims ownership of Registration No. 290,981.
For Collar Holders, Cravat Holders, Cuff Links, Belt Buckles, and Key Chains, All of Which Are Made in Whole of, in Part of, or Plated With Precious Metal.
Claims use since October 1926.

Ser. No. 623,565. A. G. Schwab & Sons, Inc., Cincinnati, Ohio. Filed Jan. 14, 1952.

ZENITH

For Jewelry for Personal Wear, Not Including Watches; Viz., Diamonds, Mounted and Unmounted.
Claims use since Jan. 1, 1951.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 597,659. Baughn Chemical Products Co., Chicago, Ill. Filed May 18, 1950.

Crystal

For Chemical Impregnated Tacky Cloth Wiper for Removing Dust, Lint, and Sand Particles.
Claims use since August 1940.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 609,903. Josie Gautier, Gautier, Miss. Filed Feb. 5, 1951.

Singing River Originals

The word "Originals" is disclaimed.
For Pottery and Ceramics—Namely, Vases, Tableware, and Jewel Cases.
Claims use since Apr. 15, 1950.

Ser. No. 622,957. Rubel & Company Decorative Accessories, Inc., New York, N. Y. Filed Dec. 28, 1951.

Trick 'n Treat

For Serving Dishes Made of Porcelain and Supported by Metal.
Claims use since Dec. 19, 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 589,803. Ralph A. Riesgo, New York, N. Y.; Margaret G. Riesgo, executrix of said Ralph A. Riesgo, deceased, assignor to North Penn Company, Inc., Freeport, N. Y., a corporation of New York. Filed Dec. 22, 1949.



The drawing is lined for red and silver. Applicant claims ownership of Registration No. 371,318.
For Refrigerated Beverage Dispensing Cabinets.
Claims use since Apr. 25, 1939.

Ser. No. 592,819. King Refrigerator Corporation, Glendale, N. Y. Filed Feb. 21, 1950.

King

WORTH ITS WEIGHT IN COLD

The word "Cold" is disclaimed. Applicant claims ownership of Registrations Nos. 201,315, 436,068, and 443,237.
For Ice and Electric Refrigerators for Home Use.
Claims use since 1938.

Ser. No. 598,836. The Cuno Engineering Corporation, Meriden, Conn. Filed June 9, 1950.

CUNO

Applicant claims ownership of Registration No. 304,263.
For Mechanical Fluid Straining and Filtering Apparatus and Parts Thereof for Filtering Liquids for Machines and Engines.
Claims use since October 1946.

Ser. No. 598,895. The Cuno Engineering Corporation, Meriden, Conn. Filed June 10, 1950. (Sec. 2f.)

FLO-KLEAN

Applicant claims ownership of Registration No. 344,692.
For Mechanical Fluid Straining and Filtering Apparatus and Parts Thereof for Filtering Liquids for Machinery and Engines.
Claims use since Jan. 16, 1936.

Ser. No. 613,855. Joan Tyler, doing business as Standard Western Company, and as Standard Water Softener Company, Los Angeles, Calif. Filed May 14, 1951.

Sofolator

For Water Softener Apparatus of the Base Exchange Type.
Claims use since Oct. 28, 1950.

Ser. No. 614,741. S. Blickman, Inc., Weehawken, N. J. Filed June 5, 1951.

TRI-SAVER

Applicant claims ownership of Registration No. 420,018.
For Coffee Making Filters and Parts Thereof.
Claims use since February 1945.

Ser. No. 623,137. General Motors Corporation, Detroit, Mich. Filed Jan. 3, 1952.

Cycla-matic

For Domestic Refrigerators and Parts Thereof.
Claims use since Nov. 15, 1951.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 563,636. Smith Furniture Manufacturing Company, Waco, Tex. Filed Aug. 17, 1948.

Komfort King FULL FLOATING ACTION

The words "Full Floating Action" are disclaimed.
For Platform Rocker, Semi-Overstuffed.
Claims use since Mar. 2, 1948.

Ser. No. 624,371. Seal Sac Inc., New York, N. Y. Filed Jan. 31, 1952.

FOLDOMATIC

For Portable Plastic-Film Covered Clothes Closets.
Claims use since Nov. 13, 1951.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 564,349. Payne Furnace Company, Beverly Hills, Calif., assignor to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware. Filed Aug. 28, 1948. (Sec. 2f.)

Payne

Applicant claims ownership of Registration No. 404,165.
For Gas-Fired, Warm Air Heating Equipment—Namely, Warm Air Furnaces, Space Heaters, and Room Heaters.
Claims use since June 1943.

Ser. No. 606,178. Signal Electric Manufacturing Co., Menominee, Mich. Filed Nov. 9, 1950.

Signal

For Electric Ventilating Fans.
Claims use since 1937.

Ser. No. 618,156. Craftsman In Metals, Inc., Oceanside, N. Y. Filed Aug. 28, 1951.

CRAFTSMAN

For Radiator Covers.
Claims use since Mar. 1, 1951.

Ser. No. 623,019. V. E. Sprouse Company, Inc., Columbus, Ind. Filed Dec. 29, 1951.

Ventmor

The drawing is lined for red and gold.
For Ventilating Fans.
Claims use since June 13, 1950.

Ser. No. 625,446. Airmaster Corporation, Chicago, Ill. Filed Feb. 25, 1952.

AIRMASTER

For Kitchen and Window Exhaust Fans, Gravity-Operated and Motor Driven Shutters for Use With Exhaust Fans, Propellors for Exhaust Fans, Attic Window Ventilating Fans, Attic Suction Chambers Including an Exhaust Fan, and Penthouses, i. e., an Enclosure Mounted Over a Roof Opening and Including an Exhaust Fan.
Claims use since 1928.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 625,259. The Cordwares Company, Inc., New York, N. Y. Filed Feb. 20, 1952.

PROTOFORM

Applicant claims ownership of Registration No. 530,266.
For Power Transmission Tapes.
Claims use since Nov. 1, 1951.

Ser. No. 628,726. United States Rubber Company, New York, N. Y. Filed Apr. 25, 1952.

BLUE DIAMOND MULTIPLE

The drawing is lined for blue. The word "Multiple" is disclaimed. Applicant claims ownership of Registration No. 294,281.
For Hose Made of Rubber and Fabric.
Claims use since 1906.

CLASS 39

CLOTHING

Ser. No. 528,302. The Neatform Co. Inc., New York, N. Y. Filed July 10, 1947. (Sec. 2f.)

"LIFT" by NEATFORM

The words "Lift by" are disclaimed. Applicant claims ownership of Registration No. 521,097.
For Foundation Garments, Girdles, and Brassières.
Claims use since Oct. 25, 1940.

Ser. No. 582,089. Marinette Knitting Mills, Marinette, Wis. Filed July 16, 1949.

BUNNY LAMB

For Women's and Children's Sweaters.
Claims use since June 27, 1949.

Ser. No. 582,622. Harris Smith, Inc., New York, N. Y. Filed July 28, 1949. (Sec. 2f.)

New Yorker

Applicant claims ownership of Registration No. 254,158.
For Men's and Boys' Outer Shirts.
Claims use since Dec. 21, 1926.

Ser. No. 591,490. The A. S. Kreider Co., Lebanon, Pa. Filed Jan. 26, 1950. (Sec. 2f as to "Kreider's.")

Kreider's Sweethearts — Perfect Fit and Comfort

The picture of the child is fanciful. The words "Perfect Fit and Comfort" are disclaimed. Applicant claims ownership of Registration No. 95,769.
For Misses', Girls', Boys', Men's, Women's, and Children's Shoes of Leather, Fabric, or Part Leather and Part Fabric.
Claims use since January 1937 on the mark as shown; and since August 1906 on the words "Kreider's Sweethearts."

Ser. No. 591,629. Federated Department Stores, Inc., Cincinnati, Ohio, assignee of The F. & R. Lazarus & Company. Filed Jan. 28, 1950.

Bob Brooks

The name used in the mark is fanciful.
For Men's Suits and Overcoats.
Claims use since Feb. 12, 1932.

Ser. No. 593,803. Kaylon Incorporated, New York, N. Y. Filed Mar. 11, 1950.

TRANSATLANTIC TOMMIES

Applicant claims ownership of Registrations Nos. 335,848, 352,190, and others.
For Ladies' and Girls' Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes.
Claims use since Jan. 11, 1950.

Ser. No. 605,175. Sanson Hosiery Mills, Inc., Philadelphia, Pa. Filed Oct. 19, 1950.

the Stocking of the Stars

The word "Stocking" is disclaimed.
For Women's Hosiery.
Claims use since 1938.

Ser. No. 605,355. Ely & Walker Dry Goods Company, St. Louis, Mo. Filed Oct. 24, 1950. (Sec. 2f.)

LILY WHITE

The words "White" and "Quality" are disclaimed. Applicant claims ownership of Registrations Nos. 75,370, 76,228, and others.
For Handkerchiefs.
Claims use since Oct. 1, 1901.

Ser. No. 607,763. Rose Marie Reid, Los Angeles, Calif. Filed Dec. 16, 1950.

Shortmaker

For Swim Suits.
Claims use since Sept. 12, 1950.

Ser. No. 609,190. Tam O'Shanter Sportswear, Inc., Manchester, N. H. Filed Jan. 24, 1951.

TAM O'JAMAS

The word "Jamas" is disclaimed. Applicant claims ownership of Registration No. 442,940.
For Infants' and Children's Pajamas.
Claims use since May 8, 1950.

Ser. No. 610,365. I. B. Kleinert Rubber Company, New York, N. Y. Filed Feb. 21, 1951.

PONCHO PANTY

The word "Panty" is disclaimed.
For Waterproof Infants' Pants.
Claims use since Jan. 26, 1951.

Ser. No. 610,808. Ray Sullivan, San Francisco, Calif., assignor to Bikini Blanket Co., Inc., a corporation of California. Filed Mar. 3, 1951.

BIKINI BLANKET

The word "Blanket" is disclaimed.
For Protective Garments in the Nature of a Wrap or Cloak With a Connected Hood.
Claims use since Jan. 8, 1951.

Ser. No. 614,552. Goldstein Millinery Company, Chicago, Ill. Filed May 31, 1951.

SELECTED BY Jane Morgan NEW YORK

The name "Jane Morgan" is fanciful. The words "Selected by" and "New York" are disclaimed. Applicant claims ownership of Registration No. 410,021.
For Ladies' and Misses' Hats.
Claims use since July 15, 1941.

Ser. No. 615,122. Grete Koesling, New York, N. Y., assignor to Your Birth-Sign, Inc., New York, N. Y., a corporation of New York. Filed June 13, 1951.

Your ★ Birth-Sign

For Women's and Misses' Bathing Suits, Slacks, Blouses, Stockings, Scarfs, Hostess Gowns, Evening Gowns, Belts for Personal Wear, Suits, Sweaters, Gloves and Slippers Made of Fabric or Leather and Combinations Thereof, and Men's Neckties.
Claims use since Apr. 20, 1951.

Ser. No. 616,226. H. H. C. Dods Proprietary Limited, trading as Staley & Staley, Brunswick, near Melbourne, Victoria, Australia. Filed July 9, 1951.

SOUTHERN CROSS

Applicant claims ownership of Australian Registration No. 84,352, dated Aug. 17, 1945.
For Hosiery and Ties for Men, Women, Boys and Girls.
Claims use since June 1, 1935; and since June 1, 1935, in commerce between Australia and the United States.

Ser. No. 616,268. Albert, Inc., Chicago, Ill. Filed July 10, 1951.

BraVeté

The syllable "Bra" is disclaimed.
For Lingerie—Namely, Women's Slips, Skirts, Step-Ins, and Briefs.
Claims use since June 21, 1951.

Ser. No. 618,079. Burlington Mills Corporation, Greensboro, N. C. Filed Aug. 25, 1951.

Nylomist

For Women's Hosiery.
Claims use since Feb. 3, 1950.

Ser. No. 618,534. Contour Hosiery Mills, Rockford, Ill. Filed Sept. 8, 1951.

BEAUTI-LINE

For Hosiery for Women and Girls.
Claims use since Oct. 15, 1930.

Ser. No. 618,774. Switzer Brothers, Inc., Cleveland, Ohio. Filed Sept. 14, 1951.

DAY-GLO

The word "Glo" is disclaimed. Applicant claims ownership of Registrations Nos. 440,040 and 535,946.
For Men's, Women's, and Children's Wearing Apparel—Namely, Coats, Jackets, Trousers, Under and Outer Shirts, Skirts, Under and Outer Shorts, Robes, Suits, Dresses, Blouses, Hosiery, Underwear, Scarves, Ties, Shoes, Sandals, Bathing Suits, Bathing Trunks, Hats, Caps, Raincoats, Nightgowns, Pajamas, Girdles, Bras, and Panties.
Claims use since Jan. 17, 1949.

Ser. No. 620,112. The Schofield Corp., Philadelphia, Pa. Filed Oct. 17, 1951.

GLENHALL

For Men's and Boys' Underwear, Hosiery, and Sportswear—Namely, Jackets, Sweaters, Bathing Suits, Sport Shirts, and Polo Shirts.
Claims use since Sept. 20, 1951.

Ser. No. 620,274. Rose Brothers, Inc., New York, N. Y. Filed Oct. 20, 1951.

DORIAN-SPUN

The word "Spun" is disclaimed.
For Men's Suits, Coats, Trousers, Overcoats, and Top Coats.
Claims use since July 2, 1950.

Ser. No. 620,363. Paul L. Reinhardt, Burlington, Wis. Filed Oct. 23, 1951.

Danublu

For Fur Garments—Namely, Capes and Stoles.
Claims use since Sept. 27, 1951.

Ser. No. 621,069. Kalamazoo Pant Company, Kalamazoo, Mich. Filed Nov. 9, 1951.

SPOTS AWAY

For Slacks for Men and Boys.
Claims use since Oct. 18, 1951.

Ser. No. 622,985. Blue Bell, Inc., Greensboro, N. C. Filed Dec. 29, 1951.

SILVER STREAK

Applicant claims ownership of Registration No. 326,071.
For Men's and Boys' Overalls, Dungarees, Outer Shirts, Jackets and Work Coats, Jeans for Girls and Misses.
Claims use since Jan. 5, 1935.

Ser. No. 622,987. Blue Bell, Inc., Greensboro, N. C. Filed Dec. 29, 1951.

LOUD SPEAKER

For Men's and Boys' Overalls, Dungarees, and Outer Shirts.
Claims use since June 16, 1950.

Ser. No. 622,988. Blue Bell, Inc., Greensboro, N. C. Filed Dec. 29, 1951.

LOUD SPEAKER

For Men's and Boys' Overalls, Dungarees, and Outer Shirts.
Claims use since June 16, 1950.

Ser. No. 623,516. Lilly Dache, Inc., New York, N. Y. Filed Jan. 12, 1952.

Lilly DACHE

The mark "Lilly Dache" is the name of a living individual whose consent is given. Applicant claims ownership of Registrations Nos. 515,314 and 552,522.
For Foundation Garments Including Brassières, Corsets, Corselettes, Girdles and Petticoats, Negligees, Lounging Gowns, Pajamas, Slips, Men's Neckties and Cravats, and Ladies' Footwear of Fabric, Leather, and Combinations Thereof.
Claims use since July 19, 1949.

Ser. No. 623,820. Samuel Astor, doing business under the name and style of Samuel Astor Company, Philadelphia, Pa. Filed Jan. 21, 1952. (Sec. 2f.)

Astor
PHILADELPHIA

The word "Philadelphia" is disclaimed.
For Women's Dresses.
Claims use since July 25, 1946.

Ser. No. 624,004. Ainsbrooke Inc., Dothan, Ala., and New York, N. Y. Filed Jan. 24, 1952.

"BEDFELLOWS"

For Men's Pajamas.
Claims use since Nov. 29, 1951.

Ser. No. 624,126. Chicopee Mills, Inc., New York, N. Y. Filed Jan. 26, 1952.

Dude

For Diapers.
Claims use since November 1949.

Ser. No. 624,127. Chicopee Mills, Inc., New York, N. Y. Filed Jan. 26, 1952.

RED I-FOL

For Diapers.
Claims use since June 6, 1950.

Ser. No. 624,165. Frank Tisch Inc., New York, N. Y. Filed Jan. 26, 1952.

Frank Tisch
Mr. Ric
Holiday

The name "Frank Tisch" consists of the name of the president of the applicant corporation.
For Ladies' Dresses.
Claims use since Nov. 1, 1951.

Ser. No. 624,175. Supreme Pants Co. Inc., New York, N. Y. Filed Jan. 10, 1952.

Gil Sax

The name "Gil Sax" is fanciful.
For Men's and Boys' Pants, Slacks, and Jackets.
Claims use since Dec. 19, 1951.

Ser. No. 624,215. Texas Harvest Hat Company, Laredo, Tex. Filed Jan. 28, 1952.

The Western King

For Men's, Ladies', and Children's Hats.
Claims use since November 1951.

Ser. No. 624,340. Max Koch and Son, Inc., New York, N. Y. Filed Jan. 31, 1952.

Stolero

For Fur Jackets, Stoles, and Boleros.
Claims use since Jan. 8, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 611,374. Armand Schwab & Co., Inc., New York, N. Y. Filed Mar. 15, 1951.

"CRYSTAL"

For Millinery Braids.
Claims use since Feb. 2, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 614,374. Martin Weiner Corp., New York, N. Y., and Clifton, N. J. Filed May 25, 1951.

Fashion Plate Award Designs

The word "Designs" is disclaimed.
For Textile Fabrics in the Piece Composed of Rayon, Cotton, Wool, Silk, Linen, Nylon and Combinations Thereof.
Claims use since Feb. 19, 1951.

Ser. No. 615,346. Adib Canen Salvador, Buenos Aires, Argentina. Filed June 18, 1951.



For Knitted Fabrics of Cotton, Wool, and Synthetic Fibers.
Claims use since Jan. 1, 1947; and since Jan. 1, 1947, in commerce between foreign nations and the United States.

Ser. No. 627,584. Lebanon Jersey Corporation, New York, N. Y. Filed Apr. 4, 1952.

washaflan

For Woolen Fabrics in the Piece.
Claims use since Mar. 31, 1952.

Ser. No. 628,463. Botany Mills, Inc., Passaic, N. J. Filed Apr. 22, 1952.

BOUKARA

Applicant claims ownership of Registrations Nos. 503,995, 505,614, and 512,828.
For Woolen Piece Goods.
Claims use since Apr. 7, 1952.

Ser. No. 628,503. Miron Mills, Inc., Clinton, Mass. Filed Apr. 22, 1952.

KAJLAINE

For Woolen Piece Goods.
Claims use since Feb. 8, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 611,104. National Rayon Dyeing Company, Incorporated, Newark, N. J. Filed Mar. 9, 1951.

NATOW

For Filaments of Synthetic Fibers.
Claims use since Jan. 2, 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 578,376. Columbian Steel Tank Company, Kansas City, Mo. Filed May 7, 1949. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 417,268 and 418,105.
For Respirators.
Claims use since June 1, 1941.

Ser. No. 602,242. Paul Axelrod, doing business under the style name of Crowning Glory Co., Chicago, Ill. Filed Aug. 5, 1950.

CROWNING GLORY

Applicant claims ownership of Registration No. 251,023.
For Home Permanent Wave Kit Consisting of Cold Wave Solution, Neutralizing Solutions, Curlers, and End Tissues.
Claims use since Jan. 2, 1943.

Ser. No. 603,988. Joseph Ferrie, doing business under the name of Joseph Ferrie, Distributors, Providence, R. I. Filed Sept. 26, 1950.

THERMADERM

For Electrical Apparatus for Generating Radio Frequencies for the Removal of Human Hair From the Body.
Claims use since on or about Sept. 1, 1950.

Ser. No. 622,257. Grout & Company Limited, Great Yarmouth, Norfolk, England. Filed Dec. 8, 1951.

NORVIC

Applicant claims ownership of British Registration No. 494,244, dated Aug. 18, 1928.
For Unmedicated Bandages and Abdominal Binders or Supports.

Ser. No. 622,698. Hayes Inventive Research Corporation, Weston, Mass. Filed Dec. 19, 1951.

FROST-TEE

For Baby Teethers.
Claims use since Nov. 16, 1951.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 553,851. Gumakers of America, Inc., Clifton Heights, Pa. Filed Apr. 5, 1948.

BUBBLO

Applicant claims ownership of Registration No. 379,517.
For Chewing Gum.
Claims use since Feb. 1, 1938.

Ser. No. 573,501. Probst & Co., Langnau, Switzerland. Filed Feb. 8, 1949.



The word "Brand" is disclaimed. Applicant claims ownership of Swiss Registration No. 126,988, dated Nov. 18, 1948, and United States Registration No. 237,860.
For Cheese.
Claims use since 1911; and since 1911 in commerce between Switzerland and the United States.

Ser. No. 583,397. International Packers Commercial Co. Inc., Chicago, Ill., assignor to International Packers Limited, Chicago, Ill., a corporation of Delaware. Filed Aug. 12, 1949.

PLATE

For Potted Meat, Deviled Ham, Vienna Sausages, Corned Mutton, Brisket Beef, Corned Beef, and Sandwich Loaf.
Claims use since June 1949.

Ser. No. 586,420. Mead Johnson & Company, Evansville, Ind. Filed Oct. 17, 1949.

LACTUM

Applicant claims ownership of Registrations Nos. 335,494, 406,276, and 503,140.

For Food Product in Fluid Form Made From Whole Milk, Maltose and Dextrin With Added Vitamin D, Providing a Whole Milk Formula for Infants.

Claims use since Aug. 29, 1949.

Ser. No. 590,128. Allied Raw Materials Company, Inc., New York, N. Y. Filed Dec. 30, 1949.

ARAMA

For Corn Starch; Glucose; Dextrin; Lactic Acid; Refined Corn Sugar (Dextrose), All of the Aforesaid, as Used for Food Purposes; Brewers' Refined Grits for Food Purposes; Canned Fish; Canned Vegetables; Dried Beans; Dried Peas; Powdered Milk; Milk Sugar; Evaporated Milk; Flour; Sweetened Condensed Milk; Dried Prunes; Dried Apricots; Dried Raisins; Peanut Oil; Cottonseed Oil for Food Purposes; Olive Oil; Cocoanut Oil and Palm Oil, Both for Food Purposes; Spices—Namely, Pepper and Mustard.

Claims use since Apr. 15, 1948.

Ser. No. 601,675. Ice-Kist Packing Company, Salinas, Calif., assignor to Kirby and Little Packing Company, Salinas, Calif., a general partnership. Filed Aug. 3, 1950.

BELL RINGER

For Fresh Carrots.

Claims use since 1946.

Ser. No. 603,364. Gerber Bros., Brooklyn, N. Y. Filed Sept. 9, 1950.

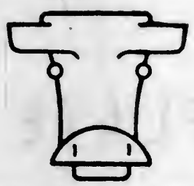
PARK LANE

Applicant claims ownership of Registration No. 250,804.

For Canned Fruit, Canned Vegetables, Canned Fish, Bottled Olives, Pickles, Peanut Butter, Peach Preserves, Raspberry Preserves, and Sweet and Sour Relishes Made of Chipped Pickles.

Claims use since May 28, 1928.

Ser. No. 603,412. Urban N. Patman, Inc., Los Angeles, Calif. Filed Sept. 11, 1950.



For Ground Beef, Jellied Corned Beef Loaf, Jellied Cooked Beef Loaf, Sandwich Beef Steak, and Veal Cutlets.

Claims use since Apr. 23, 1947.

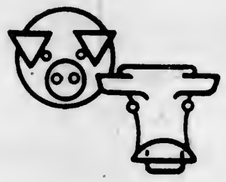
Ser. No. 603,413. Urban N. Patman, Inc., Los Angeles, Calif. Filed Sept. 11, 1950.



For Pure Pork Links, Imitation Chicken Loaf Consisting of Pork Stomachs, Water, Gelatin, Salt, and Flavoring, and Cured Ham.

Claims use since Apr. 23, 1947.

Ser. No. 603,414. Urban N. Patman, Inc., Los Angeles, Calif. Filed Sept. 11, 1950.



For Meat Products Consisting of a Combination of Beef and Pork—Namely, All-Meat Frankfurters.

Claims use since Apr. 23, 1947.

Ser. No. 608,011. Luer Bros. Packing & Ice Company, Alton, Ill. Filed Dec. 22, 1950.



The word "Brand" is disclaimed.

For Cured Sliced Bacon (Not Canned).

Claims use since Nov. 30, 1950.

Ser. No. 610,234. The Shotwell Mfg. Co., Chicago, Ill. Filed Feb. 17, 1951. (Sec. 2f as to "Shotwell.")

Shotwell

Applicant claims ownership of Registrations Nos. 416,086 and 545,036.

For Candy.

Claims use since May 31, 1950, on the mark as shown; and since Apr. 2, 1903, on the surname "Shotwell."

Ser. No. 612,173. Locatelli, Inc., New York, N. Y. Filed Apr. 3, 1951.

PROVOLINO

For Cheese.

Claims use since early 1951.

Ser. No. 613,929. Joe Lowe Corporation, New York, N. Y. Filed May 16, 1951.

Polka Dot

Applicant claims ownership of Registration No. 342,162.

For Frozen Confections on Sticks, and Liquid Concentrates for Making the Same.

Claims use since Apr. 10, 1951.

Ser. No. 615,673. American Fruit Growers Incorporated, Pittsburgh, Pa. Filed June 26, 1951.

BLUE GOOSE

For Frozen Poultry—Namely, Frozen Turkey and Frozen Chicken.

Claims use since Feb. 2, 1950.

Ser. No. 616,969. Russell H. Rogers Corporation, Detroit, Mich. Filed July 26, 1951.

POTATO NIPS

The word "Potato" is disclaimed.

For Cheese Flavored Coating for Appetizers, Such as Potato Chips and Corn Collets.

Claims use since Dec. 15, 1948.

Ser. No. 618,186. Westfeldt Brothers, New Orleans, La. Filed Aug. 28, 1951.

WBA CHIMIZALES

The term "Chimizales" is disclaimed. Chimizales is a word in Honduras meaning regions where coffee berries are grown. Applicant claims ownership of Registration No. 192,960.

For Green Coffee.

Claims use since January 1940.

Ser. No. 618,229. Cresthaven Farms, Inc., St. Paul, Minn. Filed Aug. 30, 1951.

SNOCREST

For Frozen Sweet Cream Buttermilk Product Which Is Similar in Nature to Ice Cream.

Claims use since June 5, 1949.

Ser. No. 618,839. F. Capizzi & Sons, Brooklyn, N. Y. Filed Sept. 15, 1951.



For Edible Olive Oil, Vegetable Cooking Oil, and Canned Tomatoes and Tomato Paste.

Claims use since on or about Jan. 15, 1948.

Ser. No. 619,465. International Dairy Engineering Company, Oakland, Calif. Filed Oct. 1, 1951.



For Dairy Products—Namely, Dry Whole Milk Solids, Dry Milk Fat, and Dry Non-Fat Milk Solids.

Claims use since July 12, 1951.

Ser. No. 621,376. R. S. C. Co., Wooster, Ohio, and Saginaw, Mich. Filed Nov. 17, 1951.



The word "Dairy" is disclaimed.

For Packaged Ice Cream—Namely, Low-Fat Milk Sherbet.

Claims use since Aug. 23, 1951.

Ser. No. 622,346. Mason, Au & Magenheimer Conf. Mfg. Co., Mineola, N. Y. Filed Dec. 11, 1951.

Mason 7-11

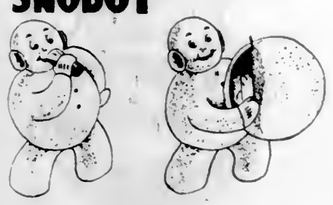
The word "Mason" is disclaimed. Applicant claims ownership of Registrations Nos. 128,451, 134,413, and others.

For Candies.

Claims use since on or about Dec. 6, 1951, on the mark as shown; and since about 1864 as to the word "Mason."

Ser. No. 625,007. Fine Foods, Inc., Seattle, Wash. Filed Feb. 15, 1952.

SNOBOY



The representation of an orange is disclaimed. Applicant claims ownership of Registrations Nos. 204,652, 390,558, and others.

For Canned Fresh Frozen Concentrated Orange Juice.
Claims use since Dec. 15, 1951.

Ser. No. 625,693. The Rice Grain Company, Toledo, Ohio. Filed Feb. 28, 1952.

TURF CLUB

For Oats Specially Prepared for Animal Feed.
Claims use since Oct. 17, 1951.

Ser. No. 626,008. Sunkist Growers, Inc., Los Angeles, Calif. Filed Mar. 5, 1952.

RedBall

Applicant claims ownership of Registration No. 176,732.
For Fresh Citrus Fruits.
Claims use since 1910.

Ser. No. 626,013. Vico Products Company, Chicago, Ill. Filed Mar. 5, 1952.

YEASTEX

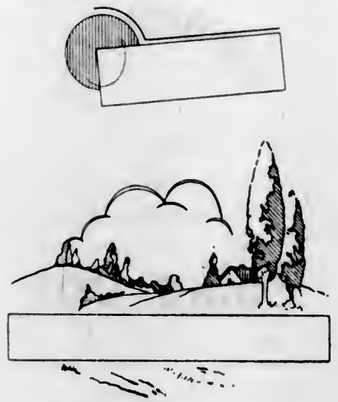
For Yeast Autolysate for Human Consumption for Use in Flavoring and Enriching Soups, Stews, Sauces, Gravies, Entrees, and Sandwiches.
Claims use since May 10, 1951.

Ser. No. 626,723. The Baker Laboratories, Inc., Cleveland, Ohio. Filed Mar. 20, 1952.

VARAMEL

For Formula Base for Infant Food, Consisting of Tuberculin Tested Cows' Milk in Which the Milk Fat Has Been Replaced by Coconut Oil, Destearinated Beef Fat, and Corn Oil; With the Addition of Fish Liver Oil Concentrate, Activated 7-Dehydrocholesterol, Thiamine, Niacinamide, and Iron Ammonium Citrate.
Claims use since July 1950.

Ser. No. 626,765. Valley Growers Packing Company, Turner, Kans. Filed Mar. 20, 1952.



The drawing is lined for the colors red and green, but no claim is made to said colors.
For Fresh Vegetables.
Claims use since Oct. 1, 1949.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 586,211. Wagner Tool & Supply Corp., Long Island City, N. Y. Filed Oct. 12, 1949.

hep

For Solvent for Removing Hard Carbon Crust Formations From Refrigerator Parts.
Claims use since May 10, 1949.

Ser. No. 601,577. Silby Chemical Corporation, Miami, Fla. Filed Aug. 1, 1950.

HAPPY DOG SPONGE RUB

The words "Sponge Rub" and "Dog" are disclaimed.
For Cleaning Preparation for Dogs, Having Insecticidal and Deodorizing Properties.
Claims use since March 1950.

Ser. No. 618,013. Takamine Laboratory, Inc., Clifton, N. J. Filed Aug. 23, 1951.

TAKASKREEN

Enzyme Preparation for the Cleaning of Fabrics and of Silk Screens and Plates Used in Printing and Lithography.
Claims use since Mar. 16, 1949.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 599,761. The Grand Chapter of Phi Sigma Kappa, Chicago, Ill. Filed June 26, 1950. COLLECTIVE MARK.



Applicant claims ownership of Registration No. 222,080.
For Organizing of Chapters in a National Collegiate Fraternity and Maintaining Membership Therein.
Claims use since 1888.

Ser. No. 623,120. Hugh W. Arbaugh, doing business under the name and style of "Arbaugh's," Washington, D. C. Filed Jan. 3, 1952. (Sec. 2f.)

ARBAUGH'S

For Restaurant Services.
Claims use since Mar. 18, 1938.

Ser. No. 624,531. Denver J. Davis, Staunton, Va. Filed Feb. 5, 1952.

ACROSS THE PASTOR'S DESK

For Stimulating Interest in Religious Matters, Morality, and Social Responsibility Through the Medium of Radio Broadcast Programs.
Claims use since Feb. 3, 1951.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 529,296. Public Accountants Society of Ohio, Columbus, Ohio. Filed July 23, 1947. COLLECTIVE MARK.

REGISTERED PUBLIC ACCOUNTANTS

of P. A. S. O.

The words "Registered Public Accountants" are disclaimed.
For Accounting and Auditing Services.
Claims use since about June 1947.

Ser. No. 567,543. Scripps-Howard Radio, Inc., doing business as Television Station WEWS, Cincinnati, Ohio. Filed Oct. 23, 1948.

Dress AND Guess

For Entertainment Service and Advertising the Goods and Services of Others Through the Medium of Television and Radio Audience Participation Variety Quiz Program.
Claims use since Apr. 8, 1948.

Ser. No. 579,437. Las Vegas Chamber of Commerce, Inc., Las Vegas, Nev. Filed May 24, 1949.



The figure is fanciful.
For Recommending Hotels, Motels, Restaurants, and Clubs to the Traveling Public and Advertising the City of Las Vegas as a Resort Through Travel Agencies Throughout the United States.
Claims use since 1945.

Ser. No. 616,095. Gregory and House, Inc., Cleveland, Ohio. Filed July 5, 1951.

Village Fair

For Advertising and Promoting the Goods and Services of Others by Means of Variety Shows and Commercial Talks Jointly Presented Through the Medium of Radio and Television Broadcasts.
Claims use since Sept. 25, 1950.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 554,275. Utica Mutual Insurance Company, Utica, N. Y. Filed Apr. 9, 1948.



For Underwriting of Casualty Insurance.
Claims use since June 1939.

Ser. No. 614,675. Universal Mutual Casualty Company, Chicago, Ill. Filed June 2, 1951.

WHITE SHIELD

For Underwriting of Accident and Health Insurance.
Claims use since Dec. 1, 1950.

Ser. No. 615,574. Reserve Life Insurance Company, Dallas, Tex. Filed June 22, 1951.

RLIC

The drawing is lined to indicate shading.
For Underwriting of Life, Health, Accident, and Hospitalization Insurance Protection.
Claims use since on or about Aug. 23, 1938.

Ser. No. 617,363. Herbert Charles & Co., Inc., New York, N. Y. Filed Aug. 6, 1951.

RENTMOBILE

For Real Estate Brokerage and Rental Agency Services.
Claims use since Jan. 20, 1951.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 466,299. Brogdex Company, Pomona, Calif. Original filed, act of 1905, Jan. 4, 1944; amended to application under act of 1946, Principal Register, July 25, 1947.

BROGDEX
Nature's SHIELD

Applicant claims ownership of Registrations Nos. 176,759, 197,576, and others.
For Surface Treatment of Fresh Fruits and Vegetables—Namely, Washing, Drying, Polishing, and Treating of Said Fruits and Vegetables With Decay Reducing and Retarding Agents, Coloring Dies, and Wax Emulsions in Order To Enhance the Marketability of Such Fruits and Vegetables.
Claims use since Sept. 12, 1942.

Ser. No. 602,962. McGraw Electric Company, Milwaukee, Wis. Filed Aug. 30, 1950.

REPAIRED BY AN L-M COMMENDED SERVICE SHOP

All wording with the exception of the letters "L-M" is disclaimed. Applicant claims ownership of Registrations Nos. 396,251, 512,685, and 512,707.
For Repair and Rebuilding of Electrical Transformers and the Installation of Parts Therefor.
Claims use since November 1949.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 579,437. Las Vegas Chamber of Commerce, Inc., Las Vegas, Nev. Filed May 24, 1949. (Classified in Class 101.)
The figure is fanciful.
See this serial number in Class 101 for services and mark.
Claims use since 1945.

CLASS 106

MATERIAL TREATMENT

Ser. No. 466,299. Brogdex Company, Pomona, Calif. Original filed, act of 1905, Jan. 4, 1944; amended to application under act of 1946, Principal Register, July 25, 1947. (Classified in Class 103.)
Applicant claims ownership of Registrations Nos. 176,759, 197,576, and others.
See this serial number in Class 103 for services and mark.
Claims use since Sept. 12, 1942.

Ser. No. 612,773. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Apr. 17, 1951.

FORT PERM-AQ

Applicant claims ownership of Registrations Nos. 345,553, 505,467, and 507,304.
For Finishing of Textile Fabrics in the Piece To Impart Water Repellency Thereto.
Claims use since Dec. 26, 1950.

Ser. No. 615,585. United Merchants and Manufacturers, Inc., New York, N. Y. Filed June 22, 1951.

FORT AQUAFOIL

Applicant claims ownership of Registrations Nos. 345,553, 505,467, and 507,304.
For Finishing of Textile Fabrics in the Piece To Impart Water Repellency Thereto.
Claims use since on or about May 3, 1951.

Ser. No. 616,473. Colure, Incorporated, Detroit, Mich. Filed July 14, 1951.

Colure

For Services Rendered Primarily to Professional Photographers, Comprising the Developing and Printing of Photographic Negatives, Proofs, and Finished Prints.
Claims use since Oct. 1, 1950.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 567,543. Scripps-Howard Radio, Inc., doing business as Television Station WEWS, Cincinnati, Ohio. Filed Oct. 23, 1948. (Classified in Class 101.)
See this serial number in Class 101 for services and mark.
Claims use since Apr. 8, 1948.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,716. Aprons — Namely, Carpenters' Aprons and Yardsmen's Aprons, Overall Coats, Overall Pants, Coveralls, Boys' Caps, Carpenters' and Painters' Caps, Dust Caps for Personal Wear, Outdoor Visor Caps, and Sleeve Protectors, All Made of Fabric. The Lehon Company, Chicago, Ill.
Filed Apr. 15, 1947, Serial No. 520,743. Published June 10, 1952. Class 39.

444,717. Angle Valves, Blowoff Valves, Check Valves, Composition Disc Valves, Cross Valves, Globe Valves, Ground Joint Valves, Radiator Valves, Straightway or Y Blowoff Valves and Swing Check Valves. The Wm. Powell Company, Cincinnati, Ohio.
Filed June 4, 1947, Serial No. 523,533. Published June 10, 1952. Class 13.

444,718. Textile Fabrics in the Piece Made of Silk, Rayon, and Mixtures Thereof, and Wool and Cotton and Mixtures Thereof, and Velvet Fabrics and Ribbons Sold by the Yard Made of Silk, Wool, and Cotton. Colcombet Francois & Cie., S. A. R. L., St. Etienne, France.
Filed July 4, 1947, Serial No. 526,218. Published June 3, 1952. Class 42.

ACT OF 1946, PRINCIPAL REGISTER

563,516. Ferrous Metal Pipe and Ferrous Metal Pipe Fittings; Ferrous Metal Conduits for Conveying Liquids and Gases and Ferrous Metal Conduit Fittings and Parts. The American Rolling Mill Company, Middletown, Ohio, now by change of name Armco Steel Corporation.
Filed July 5, 1947, Serial No. 527,742. Published Nov. 20, 1951. Class 13.

563,517. Washing Powders and Liquid Soap. The Anderson Chemical Company, Litchfield, Minn., assignee of Alfred Anderson, doing business as Anderson Chemical Co.
Filed July 19, 1947, Serial No. 529,531. Published May 27, 1952. Class 52.

563,518. Canned Foods—Namely, Salmon, Tuna, Oysters, Sardines, Olives, Pimientos, Vegetables, Fruits, and Pork and Beans. Wellman-Peck & Co., San Francisco, Calif.
Filed Oct. 17, 1947, Serial No. 538,205. Published June 3, 1952. Class 46.

563,519. Whole Wheat Cooked Breakfast Food. Crookston Milling Co., Crookston, Minn.
Filed Nov. 7, 1947, Serial No. 540,390. Published Jan. 22, 1952. Class 46.

563,520. Candy. Brecht Candy Company, Denver, Colo., assignee of Brecht Candy Co., a limited partnership.
Filed Nov. 17, 1947, Serial No. 541,399. Published June 10, 1952. Class 46.

563,521. Wax for Polishing Wood, Finished Metal, and Varnished or Painted Surfaces. O-Cedar of Canada Limited, Toronto, Ontario, Canada.
Filed Nov. 28, 1947, Serial No. 542,641. Published May 27, 1952. Class 4.

563,522. Fruit and Berry Preserves. Percy Barker, San Mateo, Calif.
Filed Feb. 17, 1948, Serial No. 549,871. Published Apr. 8, 1952. Class 46.

563,523. Group A—Cannister Sets (Flour, Sugar, Spice Cans), Metal Cake Tray and Cover Sets, Pantry Bins (for Potatoes, Etc.), Bread Boxes, Waste Baskets, Garbage Pails; Group B—Rubber Trays for Toilet Tank Top and for Sinks (for Holding Loose Articles, Soap, Etc.); Group C—Paper Baking Cups. Sears, Roebuck and Co., Chicago, Ill.
Filed Feb. 18, 1948, Serial No. 550,083. Published June 10, 1952. Class 2.

563,524. Potatoes in the Natural Condition. Southern Fruit Distributors, Inc., Orlando, Fla.
Filed Apr. 12, 1948, Serial No. 554,433. Published May 13, 1952. Class 46.

563,525. Upholstery Fabrics of Cotton, Mohair, Silk, and Wool and Synthetic Fibers. Dunbar Furniture Manufacturing Company, Berne, Ind.
Filed May 8, 1948, Serial No. 556,562. Published June 10, 1952. Class 42.

563,526. Ribbed Sheet Metal Roofing and Siding Sheets. National Steel Corporation, Wilmington, Del., and Pittsburgh, Pa.
Filed May 8, 1948, Serial No. 556,593. CONCURRENT USE. Published June 3, 1952. Class 12.

563,527. Chewing Gum. Topps Chewing Gum, Incorporated, Brooklyn, N. Y.
Filed June 22, 1948, Serial No. 558,193. Published June 10, 1952. Class 46.

563,528. Cleaning Fluids (Upholstery), Metal Polish, Soap Compound for Cleansing Automobile Bodies, Chemically Treated Polishing Cloths, Paste for Removing Dirt, Wax, Etc., From Automobile Bodies Preliminary to Rewaxing and Polishing, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed June 8, 1948, Serial No. 558,744. Published May 20, 1952. Class 4.

563,529. Red Building Brick. Whiteselle Brick & Lumber Company, Corsicana, Tex.
Filed Feb. 21, 1948, Serial No. 559,411. Published June 3, 1952. Class 12.

563,530. Prefabricated Storage Cabinets. Fabricon, Austin, Tex.
Filed July 14, 1948, Serial No. 561,980. Published Mar. 14, 1950. Class 32.

563,531. Wheat Flour. The Colorado Milling & Elevator Co., doing business under the style name of St. Anthony Flour Mills, Denver, Colo.
Filed Aug. 31, 1948, Serial No. 564,436. CONCURRENT USE. Published Apr. 8, 1952. Class 46.

563,532. Caulking Compound, Glazing Compound, Bowl Setting Compound, and Putty. Charles J. Landen, doing business as Landen Putty Works, Malden, Mass., assignor to Landen Putty Works, Inc., Malden, Mass., a corporation of Massachusetts.
Filed Sept. 9, 1948, Serial No. 564,883. Published June 3, 1952. Class 12.

563,533. Antacid Preparations. Allied Laboratories, Inc., doing business as Pitman-Moore Co., Indianapolis, Ind.
Filed Nov. 26, 1948, Serial No. 569,418. Published June 3, 1952. Class 18.

563,534. Metal Cans Sold Empty and Adapted To Receive a Suitable Closure. Crown Can Company, Philadelphia, Pa.
Filed Mar. 3, 1949, Serial No. 574,822. Published June 10, 1952. Class 2.

563,535. Face Lotion. Associated Brands, Inc., Brooklyn, N. Y.
Filed Mar. 5, 1949, Serial No. 574,947. Published June 3, 1952. Class 51.

563,536. Sauer Kraut and Salt Mackerel. Albert C. Kissling, Philadelphia, Pa.
Filed Mar. 16, 1949, Serial No. 577,301. Published June 17, 1952. Class 46.

563,537. Lubricating Products—Namely, Crankcase Oils, Bearing Oils, Gear Lubricants, and Lubricating Greases. Pan-Am Southern Corporation, New Orleans, La., by change of name from Pan American Petroleum Corporation.
Filed Apr. 28, 1949, Serial No. 577,899. Published May 20, 1952. Class 15.

563,538. Dirt Collecting Receptacles for Vacuum Cleaners—Namely, Paper Bags and Bags Made of Textile Material; and Kits Made of Cardboard or of Fabric and Metal for Holding Attachments and Accessories for Vacuum Cleaners. Eureka Williams Corporation, Bloomington, Ill.
Filed May 11, 1949, Serial No. 578,578. Published June 10, 1952. Class 2.

563,539. Cartons and Boxes Made of Paste Board, Card Board, Corrugated Board, and the Like. Krafco Container Corporation, West Monroe, La.
Filed June 15, 1949, Serial No. 580,487. Published June 10, 1952. Class 2.

563,540. Hosiery. Sapphire Hosiery Corporation, New York, N. Y., now by change of name Sapphire Corporation.
Filed July 6, 1949, Serial No. 581,567. Published Aug. 15, 1950. Class 39.

563,541. Refrigeration Packaging Products—Namely, Paper Bags and Cartons. International Harvester Company, Chicago, Ill.
Filed July 14, 1949, Serial No. 581,956. Published June 10, 1952. Class 2.

563,542. Refrigeration Packaging Products—Namely, Paper Bags and Cartons. International Harvester Company, Chicago, Ill.
Filed July 14, 1949, Serial No. 581,957. Published June 10, 1952. Class 2.

563,543. Detergents Which Are Diluted With Water and Used for Washing All Types of Glass, Metal, and Plastic Containers, and for Cleaning Numerous Industrial Apparatus and Equipment, Particularly in the Dairy and Packing House Industries. Bonewitz Chemicals, Inc., Burlington, Iowa.
Filed July 29, 1949, Serial No. 582,672. Published May 27, 1952. Class 52.

563,544. Home Hair Waving Supplies—Namely, Atomizers for Cosmetic and Chemical Liquids, Scalp Heat Protectors Known as Spacers, Heat Domes for Drying Hair Known as Driers, and Cold Wave End Papers. Edward J. Kepler, doing business under the name of Bon Aire Specialties, Chicago, Ill.
Filed Aug. 16, 1949, Serial No. 583,539. Published June 10, 1952. Class 44.

563,545. Analgesic Preparations. E. R. Squibb & Sons, New York, N. Y.
Filed Sept. 7, 1949, Serial No. 584,555. Published May 6, 1952. Class 18.

563,546. Men's Outer Shirts. New Era Shirt Company, St. Louis, Mo.
Filed Sept. 24, 1949, Serial No. 586,032. Published Apr. 8, 1952. Class 39.

563,547. Washing Compound for Use in Cleaning Clothes Having Incidental Bleaching Properties and for Removing Stains, Cleaning Floors, Glass, and Painted Woodwork. No-Boil Fluid Chemical Company, Jamestown, N. Y.
Filed Oct. 17, 1949, Serial No. 587,162. Published June 10, 1952. Class 52.

563,548. Bituminous Coating Material for Metals, Felts, Asbestos, Sheeting, Concrete, and Brickwork for Protection Against the Destructive or Corrosive Action of the Weather. Pallas Chemicals Limited, Newcastle-upon-Tyne, England.
Filed Dec. 28, 1949, Serial No. 590,028. Published June 10, 1952. Class 16.

563,549. Chemical Preparations for Waterproofing Cement, Cement Mortar, and Concrete; and for Hardening Cement, Cement Mortar, and Concrete and Making Them Weather and Acid Resistant. Pallas Chemicals Limited, Newcastle-upon-Tyne, England.
Filed Dec. 28, 1949, Serial No. 590,029. Published June 10, 1952. Class 6.

563,550. Portable Plastic Twine Holder. The J. E. Fricke Co., Philadelphia, Pa.
Filed Nov. 30, 1949, Serial No. 590,780. Published June 10, 1952. Class 2.

563,551. Women's Wearing Apparel—Namely, Dresses and Skirts. Owen-Morgan, Inc., New York, N. Y.
Filed Jan. 17, 1950, Serial No. 590,988. Published Nov. 14, 1950. Class 39.

563,552. Bowling Game Apparatus of Reduced Scale Size. Allied Manufacturing, Inc., Cleveland, Ohio.
Filed Feb. 1, 1950, Serial No. 591,761. Published June 10, 1952. Class 22.

563,553. Steel Shelving Units, Vertical Parts Bins, and Service Counters. Aurora Equipment Company, doing business as Equipto Division of Aurora Equipment Co., Aurora, Ill.
Filed Feb. 3, 1950, Serial No. 591,906. Published June 10, 1952. Class 32.

563,554. Fruit-Nut Bread. Vacu-Dry Company, Oakland, Calif.
Filed Mar. 3, 1950, Serial No. 593,379. Published May 20, 1952. Class 46.

563,555. Men's and Boys' Dress, Sport, and Work Clothing and Parts Thereof—Namely, Outer Dress Shirts, Outer Sport Shirts, Jackets, and Coats, Outer Work Shirts, Sweaters, Hosiery, Collars, Pajamas, and Neckties. Phillips-Jones Corporation, New York, N. Y.
Filed Mar. 9, 1950, Serial No. 593,681. Published Feb. 19, 1952. Class 39.

563,556. Toy Ceramic Piggy Banks. Kagran Corporation, New York, N. Y., assignee of Robert E. Smith.
Filed Mar. 31, 1950, Serial No. 595,000. Published June 17, 1952. Class 22.

563,557. Medical Composition in Capsules, Tablets, or Any Form for the Treatment of Grippe, Bronchitis, Colds, Rheumatism, Migraine (Headaches), Nervous Disorders, Depressed or Exhausted Feeling, Convalescence, and the Like. Francois A. Mautin, New York, N. Y.
Filed Apr. 12, 1950, Serial No. 595,609. Published June 17, 1952. Class 18.

563,558. Electrically Heated Caps, Facial Masks and Electrically Heated Mittens Used Solely for Beauty Treatment To Be Worn During Beauty Treatments. Middlebrooke Lancaster, Inc., Brooklyn, N. Y.
Filed Apr. 22, 1950, Serial No. 596,173. Published June 10, 1952. Class 44.

563,559. Outer Shirts for Beach, Sports, and Knockabout Wear, for Use by Men and Boys. Revere Knitting Mills, Inc., Malden, Mass.
Filed May 9, 1950, Serial No. 597,167. Published May 6, 1952. Class 39.

563,560. Corrugated Fibre Board Shipping Boxes and Solid Fibre Board Shipping Boxes. Fibre Board Container Corporation, Richmond, Va.
Filed May 17, 1950, Serial No. 597,602. Published June 10, 1952. Class 2.

563,561. Hair and Clothes Brushes. Greatrex Ltd., New York, N. Y.
Filed May 31, 1950, Serial No. 598,362. Published June 10, 1952. Class 29.

563,562. Finished Tops of Tables, Cabinets, Bars, Counters, Desks Made of Rubber and Plastic Laminate. The Ohio Rubber Company, Willoughby, Ohio.
Filed June 3, 1950, Serial No. 598,540. Published June 10, 1952. Class 32.

563,563. Cleansing Powder for General Household Use. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif.
Filed June 5, 1950, Serial No. 598,604. Published June 10, 1952. Class 52.

563,564. Baby Panties, Baby Bloomers, Creepers. Alamac Knitting Mills, Inc., New York, N. Y.
Filed June 26, 1950, Serial No. 599,738. Published June 3, 1952. Class 39.

563,565. Corduroy Fabrics of Cotton. Jaed & Co., Inc., Boston, Mass.
Filed July 6, 1950, Serial No. 600,286. Published June 10, 1952. Class 42.

563,566. Robes for Men and Boys. Royal Robes, Inc., New York, N. Y.
Filed July 7, 1950, Serial No. 600,353. Published Mar. 18, 1952. Class 39.

563,567. Antihistaminic Spray Preparation. Anahist Co. Inc., Yonkers, N. Y.
Filed July 12, 1950, Serial No. 600,529. Published May 13, 1952. Class 18.

563,568. Children's Tricycles, Children's Bicycles, Small Diameter Wheeled Sidewalk Bicycles, and Velocipedes. Stelber Cycle Corp., Brooklyn, N. Y.
Filed July 29, 1950, Serial No. 601,481. Published June 10, 1952. Class 22.

563,569. Automatically Opening and Closing Tripod Supports for Golf Bags. Schiele Products, Mount Prospect, Ill.
Filed Aug. 7, 1950, Serial No. 601,851. Published June 10, 1952. Class 22.

563,570. Fish Hooks. Soderberg & Kenyon, Denver, Colo.
Filed Aug. 11, 1950, Serial No. 602,113. Published June 10, 1952. Class 22.

563,571. Table Cloths and Napkins, Towels, Draperies, Window Curtains, and Piece Goods of Cotton, Wool, and Synthetic Fibers. Hand Block Textiles, Inc., Los Angeles, Calif.
Filed Aug. 12, 1950, Serial No. 602,121. Published June 3, 1952. Class 42.

563,572. Liquid Nail Polish Remover. Pinky Products, Inc., New York, N. Y.
Filed Aug. 17, 1950, Serial No. 602,333. Published June 3, 1952. Class 51.

563,573. Perfume. Nina Ricci, Inc., New York, N. Y.
Filed Aug. 18, 1950, Serial No. 602,422. Published June 3, 1952. Class 51.

563,574. Urinary Antiseptic Tablets. Foley & Company, Chicago, Ill.
Filed Aug. 19, 1950, Serial No. 602,444. Published June 17, 1952. Class 18.

563,575. Medicinal Preparation for the Treatment of Endocrine and Metabolic Diseases. The Upjohn Company, Kalamazoo, Mich.
Filed Aug. 22, 1950, Serial No. 602,585. Published June 3, 1952. Class 18.

563,576. Hard-Surface Composition Tile Floor Covering. Bird & Son, Inc., East Walpole, Mass.
Filed Aug. 25, 1950, Serial No. 602,742. Published June 3, 1952. Class 12.

563,577. Cleaner for Floor Scrubbing Solutions and Having Incidental Disinfectant Properties. The Davies-Young Soap Company, Dayton, Ohio.
Filed Sept. 9, 1950, Serial No. 603,355. Published June 10, 1952. Class 52.

563,578. Preparation for the Treatment of Athlete's Foot. Bruckner Chemists, New York, N. Y.
Filed Sept. 11, 1950, Serial No. 603,400. Published May 13, 1952. Class 18.

563,579. Candy. The Mason Candy Company, Trinidad, Colo.
Filed Sept. 29, 1950, Serial No. 604,208. Published May 27, 1952. Class 46.

563,580. Patching and Ramming Refractories. Eastern Clay Products, Incorporated, Jackson, Ohio, assignor to International Minerals & Chemical Corporation, Chicago, Ill.
Filed Oct. 6, 1950, Serial No. 604,525. Published June 3, 1952. Class 12.

563,581. Thermosetting Resin Adhesive for Metals and Non-Metals Used for Cementing Playing Points in Phonograph Needles and as a Protective Coating for Portions of Phonograph Needles and for Cementing Metallic and Non-Metallic Parts in Sound Transducers and Indicating Instruments. Permo, Incorporated, Chicago, Ill.
Filed Oct. 7, 1950, Serial No. 604,593. Published June 10, 1952. Class 5.

563,582. Women's Nylon Hosiery. Spurgeon Hosiery Corporation, Philadelphia, Pa.
Filed Oct. 12, 1950, Serial No. 604,815. Published June 10, 1952. Class 39.

563,583. Medicinal Compound for Healing Cracked Horse Heels. Fred M. Fischer, Beaumont, Calif.
Filed Oct. 14, 1950, Serial No. 604,908. Published May 13, 1952. Class 18.

563,584. Prefabricated Readily Erectable Buildings, Knockdown Buildings, Portable Buildings, and Unit Sections and Partitions Therefor. Spheric Structures, Inc., Washington, D. C.
Filed Oct. 24, 1950, Serial No. 605,376. Published June 3, 1952. Class 12.

563,585. Woven Textile Fabrics in the Piece of Linen, Silk, Ramie, Hemp, Cotton, Rayon, Woolen, Worsted, Jute and Mixtures Thereof. Ramhoc Ltd., New York, N. Y.
Filed Oct. 28, 1950, Serial No. 605,560. Published June 10, 1952. Class 42.

563,586. Shortening Made From Animal Fats. Goren Packing Co., Inc., Boston, Mass.
Filed Oct. 31, 1950, Serial No. 605,655. Published June 17, 1952. Class 46.

563,587. Ladies' Stockings. Leona Lingerie Inc., New York, N. Y.
Filed Nov. 1, 1950, Serial No. 605,749. Published June 3, 1952. Class 39.

563,588. Neckties. Neckwear Incorporated, Chicago, Ill.
Filed Nov. 4, 1950, Serial No. 605,911. Published Sept. 18, 1951. Class 39.

563,589. Ladies' Hats and Cloches Made of Felt, Silk, Straw, and Pleated or Woven Fibrous Materials. Leslie-James, Los Angeles, Calif.
Filed Nov. 6, 1950, Serial No. 605,961. Published Apr. 15, 1952. Class 39.

563,590. Pharmaceutical Preparation—Namely, a Procaine Penicillin and Buffered Penicillin Combination for Aqueous Injection. The S. E. Massengill Company, Bristol, Tenn.
Filed Nov. 17, 1950, Serial No. 606,538. Published June 3, 1952. Class 18.

563,591. Pharmaceutical Product Used as a Relaxant for Spastic and Neurologic Disorders. Schenley Laboratories, Inc., New York, N. Y.
Filed Nov. 16, 1950, Serial No. 606,490. Published June 17, 1952. Class 18.

563,592. Baseball Bats; Baseball Bases; Baseball Masks; Home and Pitchers' Plates; Chest Protectors for Athletic Use, Etc. Universal Sports Corporation, New York, N. Y.
Filed Mar. 22, 1951, Serial No. 611,666. Published June 17, 1952. Class 22.

563,593. Venetian Blind Having a Single Actuating Member. Rolladenfabrik A. Griesser A.-G., Aadorf, Switzerland.
Filed Mar. 26, 1951, Serial No. 611,812. Published June 10, 1952. Class 32.

563,594. Emulsion Floor Waxes. The Tremco Manufacturing Company, Cleveland, Ohio.
Filed Mar. 28, 1951, Serial No. 611,923. Published June 10, 1952. Class 4.

563,595. Hosiery for Women and Girls. Willis Hosiery Mills Inc., Concord, N. C.
Filed Mar. 28, 1951, Serial No. 611,926. Published June 10, 1952. Class 39.

563,596. Power-Operated Vegetable Peelers and Vegetable Cutters. Parco Manufacturing Co., Inc., Syracuse, N. Y.
Filed Apr. 2, 1951, Serial No. 612,133. Published May 27, 1952. Class 23.

563,597. Piston Cups for Pumps. Universal Packing & Gasket Company, Houston, Tex.
Filed Apr. 9, 1951, Serial No. 612,425. Published June 3, 1952. Class 35.

563,598. Rubber Bulbs With Sprinkling or Spraying Heads, Rubber Bulbs With Nozzles for Battery Filling, Rubber Bulbs With Nozzles for Insecticide Dusting, and Rubber Soap Trays. The Sun Rubber Company, Barberton, Ohio.
Filed Apr. 24, 1951, Serial No. 613,093. Published June 10, 1952. Class 2.

563,599. Hosiery for Girls and Women. Warren Knitting Mills, Inc., New York, N. Y.
Filed Apr. 24, 1951, Serial No. 613,099. Published June 10, 1952. Class 39.

563,600. Detergent Tablets for Use in a Fountain Brush. Automatic Controls Corporation, Ann Arbor, Mich.
Filed Apr. 25, 1951, Serial No. 613,113. Published June 10, 1952. Class 52.

563,601. Sealing Tapes of Laminated Kraft Paper on One Face With an Adhesive or Gummed Surface. Stocker Manufacturing Company, Netcong, N. J.
Filed May 4, 1951, Serial No. 613,536. Published June 10, 1952. Class 5.

563,602. Brooms and Mops. Newton Grocery Company, Inc., doing business under the name Newton Grocery Company, Dothan, Ala.
Filed May 18, 1951, Serial No. 614,057. Published June 17, 1952. Class 29.

563,603. Candy. Trudeau Candies, Inc., St. Paul, Minn., assignor to Fenn Bros., Inc., Sioux Falls, S. Dak., a corporation of South Dakota.
Filed June 6, 1951, Serial No. 614,857. Published June 10, 1952. Class 46.

563,604. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D. B. Fuller & Co., Inc., New York, N. Y.
Filed June 13, 1951, Serial No. 615,112. Published June 10, 1952. Class 42.

563,605. Rubber Protector Collars for Drill Pipe. Tubular Service and Engineering Company, Houston, Tex.
Filed June 25, 1951, Serial No. 615,664. Published May 27, 1952. Class 35.

563,606. Women's Hosiery. Holeproof Hosiery Company, Milwaukee, Wis.
Filed July 5, 1951, Serial No. 616,100. Published June 3, 1952. Class 39.

563,607. Artificial Fishing Lures. Gentner Tackle Co., Garfield, N. J.
Filed July 7, 1951, Serial No. 616,205. Published June 17, 1952. Class 22.

563,608. Domestic or Household Scissors and Shears. The Acme Shear Company, Bridgeport, Conn.
Filed July 9, 1951, Serial No. 616,217. Published May 27, 1952. Class 23.

563,609. Reeds, and Dents for Reeds for Textile Looms. Emmons Loom Harness Co., Lawrence, Mass.
Filed June 20, 1951, Serial No. 616,535. Published May 27, 1952. Class 23.

563,610. Fresh Citrus Fruits and Frozen Seafood Products—Namely, Catfish, Catfish Fillets, Shrimp, Turtlemeat, and Mullet. Gale Packing Company, Palatka, Fla.
Filed July 16, 1951, Serial No. 616,557. Published June 17, 1952. Class 46.

563,611. Ladies' Hosiery. Rosedale Knitting Company, Reading, Pa.
Filed July 18, 1951, Serial No. 616,643. Published June 3, 1952. Class 39.

563,612. Wash Cloths and Dish Cloths. Jonas Soderblom, doing business as Wettex Company, New York, N. Y.
Filed July 26, 1951, Serial No. 616,975. Published June 10, 1952. Class 42.

563,613. Dolls. A&H Doll Manufacturing Corp., Woodside, N. Y.
Filed July 30, 1951, Serial No. 617,102. Published June 17, 1952. Class 22.

563,614. Twisted Jute Packing for Pipe Joints. American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y.
Filed Aug. 9, 1951, Serial No. 617,479. Published June 3, 1952. Class 35.

563,615. Girdles, Panties, and Brassières. The H. W. Gossard Co., Chicago, Ill.
Filed Aug. 16, 1951, Serial No. 617,755. Published June 10, 1952. Class 39.

563,616. Pharmaceutical Product for Use as an Autonomic, Ganglionic Blocking Agent. The Maltine Company, Morris Plains, N. J., now by change of name Chilcott Laboratories, Inc.
Filed Aug. 21, 1951, Serial No. 617,922. Published May 13, 1952. Class 18.

563,617. Olives. Strohmeyer & Arpe Company, New York, N. Y.
Filed Aug. 24, 1951, Serial No. 618,062. Published June 17, 1952. Class 46.

563,618. Veterinary Preparation for the Treatment of Acute or Chronic Mastitis. The S. E. Massengill Company, Bristol, Tenn.
Filed Nov. 17, 1950, Serial No. 606,543. Published June 3, 1952. Class 18.

563,619. Windows, and Window Screens. Rolscreen Company, Pella, Iowa.
Filed Nov. 20, 1950, Serial No. 606,682. Published June 3, 1952. Class 12.

563,620. Penicillin Product Containing an Amine Salt. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Nov. 22, 1950, Serial No. 606,748. Published June 17, 1952. Class 18.

563,621. Pharmaceutical Preparations Containing the Male Sex Hormone, Testosterone. Charles E. Frosst & Co., Montreal, Quebec, Canada.
Filed Nov. 24, 1950, Serial No. 606,861. Published June 3, 1952. Class 18.

563,622. Metal Awnings. Sears, Roebuck and Co., Chicago, Ill.
Filed Nov. 30, 1950, Serial No. 607,145. Published June 3, 1952. Class 12.

563,623. Candies. Helen Harrison Candies Company, Chicago, Ill.
Filed Dec. 2, 1950, Serial No. 607,219. Published May 20, 1952. Class 46.

563,624. Alkaline Detergents for Bottle Washing and Related Uses in Dairies, Breweries, Beverage Bottling Plants, and Other Food and Beverage Processing Plants. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Dec. 8, 1950, Serial No. 607,450. Published June 10, 1952. Class 52.

563,625. Textile Fabrics in the Piece Made of Synthetic Fibers. Burlington Mills Corporation, Greensboro, N. C.
Filed Dec. 9, 1950, Serial No. 607,484. Published June 10, 1952. Class 42.

563,626. Antacid Adsorbent. O'Connell Brothers, Inc., Overland and St. Louis, Mo.
Filed Dec. 9, 1950, Serial No. 607,509. Published June 17, 1952. Class 18.

563,627. Oral Preparation Intended To Increase the Absorption of Fat in the Human Body. Abbott Laboratories, North Chicago, Ill.
Filed Dec. 18, 1950, Serial No. 607,787. Published May 13, 1952. Class 18.

563,628. Baby Safety Gates. Worldsbest Industries, Inc., Cudahy, Wis.
Filed Dec. 18, 1950, Serial No. 607,837. Published June 3, 1952. Class 12.

563,629. Shampoos and Perfumed Soap. Culpeper House Limited, London, England.
Filed Dec. 20, 1950, Serial No. 607,894. Published June 10, 1952. Class 52.

563,630. Laxative Tablets. Schenley Laboratories, Inc., New York, N. Y.
Filed Dec. 20, 1950, Serial No. 607,902. Published May 13, 1952. Class 18.

563,631. Antacid. Schieffelin & Co., New York, N. Y.
Filed Jan. 18, 1951, Serial No. 608,956. Published June 17, 1952. Class 18.

563,632. Lipstick, Rouge, Face Powder, Body Powder, and Nailpolish. Elizabeth Arden Sales Corporation, New York, N. Y.
Filed Feb. 1, 1951, Serial No. 609,470. Published June 3, 1952. Class 51.

563,633. Preparation of Body-Building Elements Particularly Indicated in the Treatment of Secondary Anemia. Dominick J. Nicoletti, New Rochelle, N. Y.
Filed Feb. 17, 1951, Serial No. 610,224. Published June 3, 1952. Class 18.

563,634. Sewing Machines, Electric Sewing Machines and Parts Thereof. White Sewing Machine Corporation, Cleveland, Ohio.
Filed Feb. 28, 1951, Serial No. 610,651. Published May 6, 1952. Class 23.

563,635. Automatic Rack Loaders and Unloaders, for Loading and Unloading of Baking Pans on Racks. The Standard Stoker Company, Inc., New York, N. Y., now by change of name Read Standard Corporation, a corporation of Delaware.
Filed Mar. 1, 1951, Serial No. 610,721. Published May 6, 1952. Class 23.

563,636. Synthetic Detergent and Organic Inhibitor—Namely, an Acid Cleaner and Rust Remover for Metals. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 2, 1951, Serial No. 610,772. Published June 10, 1952. Class 52.

563,637. Anticoagulant. Hoffmann-La Roche Inc., Nutley, N. J.
Filed Mar. 8, 1951, Serial No. 611,028. Published June 3, 1952. Class 18.

563,638. Flour Made of Grain for Human Consumption. International Milling Company, Minneapolis, Minn.
Filed Mar. 9, 1951, Serial No. 611,095. Published June 3, 1952. Class 46.

563,639. Toilet Preparations, Perfumery, and Cosmetics—Namely, Perfume, Toilet Waters, Lipstick, Face Powders, Toilet Creams, Rouge, Mascara, and Nail Enamel. Tattoo, Inc., New York, N. Y.
Filed Mar. 14, 1951, Serial No. 611,317. Published June 3, 1952. Class 51.

563,640. Refractory Brick. General Refractories Company, Philadelphia, Pa.
Filed Mar. 15, 1951, Serial No. 611,351. Published June 3, 1952. Class 12.

563,641. Hydraulic-Setting, Chrome-Base, Castable Cement. General Refractories Company, Philadelphia, Pa.
Filed Mar. 15, 1951, Serial No. 611,352. Published June 3, 1952. Class 12.

563,642. Stick Glue for Securing Abrasive Discs to Back Discs and Liquid Cement for Securing Abrasive Granules to Irregular Base Surfaces for Manufacturing Abrasive Forms. Rockwell Manufacturing Company, Pittsburgh, Pa.
Filed Mar. 19, 1951, Serial No. 611,536. Published June 10, 1952. Class 5.

563,643. Textile Bath Towels. Mosse, Incorporated, New York, N. Y.
Filed Mar. 22, 1951, Serial No. 611,651. Published June 10, 1952. Class 42.

563,644. Medicinal Preparation Containing Sulfadiazine and Sulfamerazine. E. S. Miller Laboratories, Inc., Los Angeles, Calif.
Filed Aug. 25, 1951, Serial No. 618,095. Published May 13, 1952. Class 18.

563,645. Gasoline Powered Rotary Lawn Mowers. Savage Arms Corporation, Utica, N. Y.
Filed Aug. 28, 1951, Serial No. 618,182. Published May 20, 1952. Class 23.

563,646. Anti-Nauseant and Anti-Emetic Preparation. Winthrop-Stearns Inc., New York, N. Y.
Filed Aug. 29, 1951, Serial No. 618,220. Published May 13, 1952. Class 18.

563,647. Herrings Preserved in Brine. Alexander Wood & Son, Peterhead, Scotland.
Filed Apr. 7, 1952, Serial No. 618,253. Published June 10, 1952. Class 46.

563,648. Mineral-Vitamin Dietary Supplement in Dry Tablet Form. Nelson John McConahey, doing business as The Too Food Supplement Company, Denver, Colo.
Filed Sept. 1, 1951, Serial No. 618,321. Published May 13, 1952. Class 18.

563,649. Preparation for the Relief of Poison Ivy, and Chigger, Mosquito, and Other Insect Bites. Reon Company, Ambler, Pa.
Filed Sept. 5, 1951, Serial No. 618,403. Published May 13, 1952. Class 18.

563,650. Bronchodilator and Antispasmodic for the Treatment of Bronchial Spasm. Winthrop-Stearns Inc., New York, N. Y.
Filed Sept. 6, 1951, Serial No. 618,474. Published May 13, 1952. Class 18.

563,651. Exhaust Deflectors for Use on Automobiles. Peters & Russell, Inc., Springfield, Ohio.
Filed Sept. 14, 1951, Serial No. 618,813. Published Apr. 29, 1952. Class 23.

563,652. Textile Fabrics in the Piece Knitted From Cotton, Rayon, or Nylon and Mixtures Thereof. Gehring Textiles, Inc., New York, N. Y.
Filed Sept. 15, 1951, Serial No. 618,849. Published June 10, 1952. Class 42.

563,653. Antitussive Preparation. E. R. Squibb & Sons, New York, N. Y.
Filed Sept. 25, 1951, Serial No. 619,215. Published June 3, 1952. Class 18.

563,654. Men's Pajamas. Sleepwear, Inc., New York, N. Y.
Filed Sept. 26, 1951, Serial No. 619,266. Published June 3, 1952. Class 39.

563,655. Cough Syrup. W. K. Buckley Inc., Buffalo, N. Y.
Filed Sept. 28, 1951, Serial No. 619,331. Published June 3, 1952. Class 18.

563,656. Medicinal White Mineral Oils. Petroleum Specialties, Inc., New York, N. Y.
Filed Sept. 28, 1951, Serial No. 619,355. Published June 3, 1952. Class 18.

563,657. Low-Calorie Dietary Aid That Helps Retard Hunger. American Dietaids Company, Inc., Yonkers, N. Y.
Filed Sept. 29, 1951, Serial No. 619,374. Published June 3, 1952. Class 18.

563,658. Pharmaceutical Product To Assist in and To Control the Circulation of the Blood. N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar," Weesp and Amsterdam, Netherlands.
Filed Oct. 4, 1951, Serial No. 619,582. Published June 3, 1952. Class 18.

563,659. Circular Saws and Hand Saws. The Larsan Manufacturing Company, Columbus, Ohio.
Filed Oct. 5, 1951, Serial No. 619,629. Published May 13, 1952. Class 23.

563,660. Aluminum Awnings. Texas Fabricating Co., Houston, Tex.
Filed Oct. 12, 1951, Serial No. 619,955. Published June 3, 1952. Class 12.

563,661. Adhesives—Namely, Protein Base Adhesives, Rubber Base Adhesives, Resin Base Adhesives, and Inorganic Base Adhesives, and Adhesive Tapes. Behr-Manning Corporation, Troy, N. Y.
Filed Oct. 24, 1951, Serial No. 620,390. Published June 10, 1952. Class 5.

563,662. Candy Coated Colored Potato Chips. David C. Brendel, Philadelphia, Pa.
Filed Oct. 24, 1951, Serial No. 620,393. Published May 20, 1952. Class 46.

563,663. Plastic Gloves for Household Use. Edward N. Stange, doing business as Ensco Mfg. Co., Chicago, Ill.
Filed Oct. 29, 1951, Serial No. 620,629. Published June 10, 1952. Class 39.

563,664. Chlorophyll Chewing Gum. Tar-Gon Products, Inc., Chicago, Ill.
Filed Nov. 5, 1951, Serial No. 620,904. Published June 3, 1952. Class 46.

563,665. Rugs and Carpets of Fibre. Waite Carpet Co., Oshkosh, Wis.
Filed Nov. 5, 1951, Serial No. 620,905. Published June 10, 1952. Class 42.

563,666. Rugs and Carpets of Fibre. Waite Carpet Co., Oshkosh, Wis.
Filed Nov. 5, 1951, Serial No. 620,906. Published June 10, 1952. Class 42.

563,667. Rugs and Carpets of Cotton and Fibre. Waite Carpet Co., Oshkosh, Wis.
Filed Nov. 5, 1951, Serial No. 620,907. Published June 10, 1952. Class 42.

563,668. Paper Bags. Union Bag & Paper Corporation, New York, N. Y.
Filed Nov. 6, 1951, Serial No. 620,942. Published June 10, 1952. Class 2.

563,669. Knitted Pile Fabric Made of Cotton, Wool, and Synthetic Fibers Sold in the Piece or Bulk. Argonaut Mills, Milwaukee, Wis.
Filed Nov. 8, 1951, Serial No. 620,992. Published June 10, 1952. Class 42.

563,670. Spinning Tops, and Tops of the Bandalore Type. Royal Tops Mfg. Co., Long Island City, N. Y.
Filed Nov. 9, 1951, Serial No. 621,087. Published June 17, 1952. Class 22.

563,671. Emulsifier for Foods Containing Polyoxyethylene Sorbitan Monostearate. R. T. Vanderbilt Company, Inc., New York, N. Y.
Filed Nov. 16, 1951, Serial No. 621,344. Published May 20, 1952. Class 46.

563,672. Honey. Flying B Honey Co., Delta, Colo.
Filed Nov. 23, 1951, Serial No. 621,552. Published June 10, 1952. Class 46.

563,673. Mattresses and Box Springs. International Furniture Company, Chicago, Ill.
Filed Nov. 23, 1951, Serial No. 621,558. Published June 10, 1952. Class 32.

563,674. Mincemeat. Wood's Mincemeat Company, Baltimore, Md.
Filed Nov. 27, 1951, Serial No. 621,741. Published June 10, 1952. Class 46.

563,675. Yarn. National Automotive Fibres, Inc., Oakland, Calif.
Filed Nov. 30, 1951, Serial No. 621,897. Published June 10, 1952. Class 43.

563,676. Slide Fasteners. Talon, Inc., Meadville, Pa.
Filed Dec. 5, 1951, Serial No. 622,132. Published June 17, 1952. Class 13.

563,677. Coffee, Rice, and Dried Beans. M.J.B. Co., Wilmington, Del., and San Francisco, Calif.
Filed Dec. 10, 1951, Serial No. 622,303. Published June 10, 1952. Class 46.

563,678. Fresh Vegetables. J. & K. Sato, National City, Calif.
Filed Dec. 10, 1951, Serial No. 622,314. Published June 10, 1952. Class 46.

563,679. Household or Light Industrial Gloves of Rubber or Rubber-like Material, or Combinations Thereof. The Pioneer Rubber Company, Willard, Ohio.
Filed Dec. 11, 1951, Serial No. 622,353. Published June 10, 1952. Class 39.

563,680. Candy. Barricini, Inc., New York and Long Island City, N. Y.
Filed Dec. 22, 1951, Serial No. 622,767. Published June 17, 1952. Class 46.

563,681. Tires Composed Wholly or Principally of Rubber or Synthetic Rubber. The Goodyear Tire & Rubber Company, Akron, Ohio.
Filed Jan. 11, 1952, Serial No. 623,460. Published May 27, 1952. Class 35.

563,682. Poultry Feed. Allied Mills, Inc., Chicago, Ill.
Filed Jan. 14, 1952, Serial No. 623,529. Published May 20, 1952. Class 46.

563,683. Tires Composed Wholly or Principally of Rubber. The Goodyear Tire & Rubber Company, Akron, Ohio.
Filed Jan. 18, 1952, Serial No. 623,761. Published May 27, 1952. Class 35.

563,684. Feed for Poultry and Swine. Schenley Distillers, Inc., New York, N. Y.
Filed Jan. 23, 1952, Serial No. 623,986. Published June 3, 1952. Class 46.

563,685. Garden Hose and Rubber Vehicle Tires. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Feb. 1, 1952, Serial No. 624,404. Published June 3, 1952. Class 35.

563,686. Textile Fabrics Made of Wool and Synthetic Fibers and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Feb. 4, 1952, Serial No. 624,472. Published June 10, 1952. Class 42.

563,687. Textile Fabrics Made of Wool and Synthetic Fibers and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Feb. 4, 1952, Serial No. 624,475. Published June 10, 1952. Class 42.

563,688. Textile Fabrics Made of Wool and Synthetic Fibers and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Feb. 4, 1952, Serial No. 624,477. Published June 10, 1952. Class 42.

563,689. Chemical Composition Used for Imparting a Finish to Textile Fibers and Fabrics. Onyx Oil & Chemical Company, Jersey City, N. J.
Filed Feb. 28, 1952, Serial No. 625,688. Published June 3, 1952. Class 6.

Service Marks

563,690. Repairing Cracked Castings. George Javor, Chicago, Ill., assignor to Frigidweld, Inc., Chicago, Ill., a corporation of Illinois.
Filed July 5, 1947, Serial No. 527,389. Published Sept. 11, 1951. Class 103.

563,691. Decorating and Printing Woven and Knitted Fabrics of Cotton, Silk, Rayon, Nylon, Wool Acetate, and Linen by Dyeing the Same, Printing Them With Designs and Colors, Applying Flock Thereon, Applying a Suede Finish and Embossing. Velveray Corporation, New York, N. Y.
Filed May 1, 1948, Serial No. 556,043. Published June 17, 1952. Class 106.

563,692. Banking and Trust Services—Namely, Financing, Credit and Loan Services, Savings Accounts, Checking Accounts, Foreign Exchange, Investment Services, Trust Services, Collection Services, Money Orders, and Travelers' Checks. Industrial Trust Company, Providence, R. I.
Filed June 22, 1948, Serial No. 559,925. Published June 10, 1952. Class 102.

563,693. Leasing of Developed Motion Picture Films. Ideal Pictures Corporation, Chicago, Ill.
Filed Aug. 6, 1949, Serial No. 583,132. Published June 10, 1952. Class 107.

563,694. Pen and Pencil Repair Service. Personal Pen Company, Boston, Mass.
Filed Jan. 6, 1950, Serial No. 590,453. Published June 17, 1952. Class 103.

563,695. Preparation of Advertising and Sales Promotion Material for Use in a Syndicated Direct Mail Sales Promotion Activity. Frederick E. Gymer, Cleveland, Ohio.
Filed June 28, 1950, Serial No. 599,870. Published June 10, 1952. Class 101.

563,696. Chemical Research Performed for Others. Chemectron Corporation, Washington, D. C.
Filed July 21, 1950, Serial No. 601,022. Published June 17, 1952. Class 100.

563,697. Drilling and Maintaining Oil and Gas Wells. Shields Oil Producers, Russell, Kans.
Filed Aug. 9, 1950, Serial No. 602,002. Published June 17, 1952. Class 103.

563,698. Serving Food and Beverages in Restaurants. The Flaming Pit, Inc., Denver, Colo.
Filed Sept. 9, 1950, Serial No. 603,359. Published June 10, 1952. Class 100.

563,699. Installation, Repairing, and Remodelling of Movable Interior Walls or Partitions, Generally Made of Sheet Metal, and Glazing, Painting, and Preparation of Such Walls and Partitions for Wiring and Installation of Electrical Fittings. The E. F. Hauserman Company, Cleveland, Ohio.
Filed Sept. 26, 1950, Serial No. 603,998. Published June 10, 1952. Class 103.

563,700. Entertainment Services Rendered Through the Medium of a Series of Dramatic Radio and Television Programs. Dick Powell, doing business as Powell Enterprises, Hollywood, Calif.
Filed Oct. 3, 1950, Serial No. 604,387. Published June 17, 1952. Class 107.

563,701. Treatment of Sheets or Coils of Metal, Such as Steel, Aluminum, Copper, and Brass, by Shearing, Slitting, Edge Rolling, Flattening and Bending; Cutting Coils to Lengths; and Breakdown of Coils to Smaller Weight Coils. Nolder Steel Company, Chicago, Ill.
Filed Dec. 2, 1950, Serial No. 607,231. Published June 10, 1952. Class 106.

563,702. Services Rendered in Connection With Oil, Gas, and Water Wells, Etc. Schlumberger Well Surveying Corporation, Houston, Tex.
Filed Dec. 20, 1950, Serial No. 607,903. Published June 10, 1952. Class 100.

563,703. Repairing of Metal Castings. Casting Repair Service, Oklahoma City, Okla.
Filed Jan. 18, 1951, Serial No. 608,917. Published June 17, 1952. Class 103.

563,704. Promoting Safety Among Children by Lectures or Addresses in Schools or Other Institutions of Learning, and Before Children's Groups, by Illustrated Lectures, Drawings, and Chalk Talks. Richard H. Mansfield, doing business as Dick Mansfield, Cheverly, Md.
Filed Feb. 21, 1951, Serial No. 610,373. Published June 17, 1952. Class 107.

563,705. Printing, Decorating, and Ornamenting Sheet Plastic Materials To Be Used for Table and Furniture Covers, Draperies, Wall Coverings, Garment Bags, Raincoats, Shower Curtains, and the Like. Velveray Corporation, Clifton, N. J., Fall River, Mass., and New York, N. Y.
Filed Mar. 5, 1951, Serial No. 610,878. Published June 10, 1952. Class 106.

563,706. Railroad Track Construction Engineering and Repair. T. F. Scholes, Inc., Reading, Pa.
Filed June 12, 1951, Serial No. 615,086. Published June 10, 1952. Class 103.

563,707. Furnishing of Motion Picture Films on a Lease Basis. Bob Jones University, Greenville, S. C.
Filed Sept. 4, 1951, Serial No. 618,834. Published June 10, 1952. Class 107.

563,708. Services Rendered Manufacturers of All Kinds of Fabrics Including Cotton, Wool, Worsted, Acetate Rayon, Viscose Rayon, Spun Rayon, and Mixed Fibres, Which Services Consist of Rendering Said Fabrics Shrunk to Within 1% Average Residual Shrinkage by Government Test Methods. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y.
Filed Sept. 21, 1951, Serial No. 619,071. Published June 17, 1952. Class 106.

563,709. Information and Instructive Service Relating To Traffic Laws and Traffic Problems in Baltimore and Elsewhere, Rendered Through the Medium of a Television Broadcast Program. Joseph Kolodny, Baltimore, Md.
Filed Oct. 29, 1951, Serial No. 620,607. Published June 10, 1952. Class 107.

Certification Mark

563,710. Knitted and Woven Outerwear—Namely, Hosiery, Anklets, Polo Shirts, and Sweaters All for Men, Women, Children, and/or Infants. Fidelity Machine Company, Inc., Philadelphia, Pa.
Filed July 23, 1951, Serial No. 616,818. Published June 10, 1952. Class 39.

Collective Marks

563,711. Advancement of Medical Science and the Promotion of Good Fellowship Among the Members of Its Chapters. Alpha Kappa Kappa Fraternity, Columbus, Ohio.
Filed Jan. 10, 1950, Serial No. 590,570. Published June 17, 1952. Class 100.

563,712. Organizing of Chapters of a National Honorary History Fraternity and the Establishment and Maintenance of Membership Therein and Furthering the Civic and Educational Ideals Thereof. Phi Alpha Theta, Allentown, Pa.
Filed Oct. 3, 1950, Serial No. 604,384. Published June 10, 1952. Class 100.

563,713. Non-Fat Dry Milk Solids (Dry Skim Milk). Mid-West Producers' Creameries, Inc., South Bend, Ind.
Filed Nov. 9, 1951, Serial No. 621,078. Published June 17, 1952. Class 46.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

563,714. (Class 39. Clothing.) Merrimac Hat Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 1, 1948; amended to application, Supplemental Register, Jan. 22, 1951, Serial No. 567,990.

PERFECTION
MERRIMAC

For Men's, Women's, and Children's Hats and Hat Bodies of Felt and Fur.
Claims use since Jan. 1, 1937.

563,715. (Class 2. Receptacles.) Chris Mueller, Jr., Burbank, Calif. Original filed, act of 1946, Principal Register, Nov. 8, 1948; amended to application, Supplemental Register, Jan. 22, 1951, Serial No. 568,391.

MAYA
GLYPH
COASTERS

The word "Coasters" is disclaimed.
For Rubber Mat Coasters for Beverage Glasses.
Claims use since May 1948.

563,716. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) William G. Ackerman and Company, Atlanta, Ga. Original filed, act of 1946, Principal Register, Feb. 12, 1949; amended to application, Supplemental Register, May 23, 1952, Serial No. 573,747.

Spec-Stay

For Eyeglass Case Holder Consisting of a Hook and Loop Thereon Designed To Secure Eyeglass Cases and Eyeglasses to Automobile Visors, Writing Pads, Books, and the Like.
Claims use since Aug. 1, 1948.

563,717. (Class 10. Fertilizers.) Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Original filed, act of 1946, Principal Register, May 16, 1949; amended to application, Supplemental Register, Feb. 21, 1951, Serial No. 578,940.

NORGESALPETER

Applicant claims ownership of United States Registration No. 205,687, and Norwegian Registration No. 13,232, dated Nov. 10, 1925.
For Fertilizers.
Claims use since Nov. 10, 1925; and since the latter part of 1925 in commerce between Norway and the United States.

563,718. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Kralinator Products Limited, Preston, Ontario, Canada. Original filed, act of 1946, Principal Register, July 7, 1949; amended to application, Supplemental Register, Sept. 17, 1951, Serial No. 581,599.

KASE-VENT

Applicant claims ownership of Canadian Registration No. N. S. 28,257.
For Crankcase Ventilation Devices.
Claims use since Aug. 1, 1947, and was first used in commerce between foreign nations and the United States on or about Aug. 1, 1947.

563,719. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) The Dill Manufacturing Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Aug. 19, 1949; amended to application, Supplemental Register, Mar. 22, 1952, Serial No. 583,681.

HI-TEMP

For Valve Insides and Valve Caps for Valve Stems for Pneumatic Tires.
Claims use since July 22, 1949.

563,720. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) H. K. Porter, Inc., Somerville, Mass. Original filed, act of 1946, Principal Register, Nov. 5, 1949; amended to application, Supplemental Register, Mar. 12, 1952, Serial No. 587,396.

HANDKLIP

Applicant claims ownership of Registrations Nos. 126,195, 270,480, and 349,385.

For One-Hand Metal Cutting Tools for Cutting Cotter Pins, Wires, and Pulling Staples in Fence Repair Work and Similar Uses.

Claims use since Dec. 1, 1948.

563,721. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Woodman Company, Inc., Avondale Estates, Ga. Original filed, act of 1946, Principal Register, Nov. 8, 1949; amended to application, Supplemental Register, Feb. 3, 1951, Serial No. 587,519.

KLO - STITCH

For Power Driven Machine for Closing and Stitching Bags.

Claims use since Sept. 2, 1949.

563,722. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Layne-Held Corporation, Higginsville, Mo. Original filed, act of 1946, Principal Register, Dec. 27, 1949; amended to application, Supplemental Register, Jan. 12, 1952, Serial No. 589,977.

IN-R-TOOL

For Tool for Holding Hollow Work by Means of Internally Disposed Expandable Jaws.

Claims use since Sept. 26, 1949.

563,723. (Class 46. Foods and Ingredients of Foods.) Great Falls Meat Company, Great Falls, Mont. Original filed, act of 1946, Principal Register, Dec. 30, 1949; amended to application, Supplemental Register, Feb. 20, 1951, Serial No. 590,154.

Montana

Applicant claims ownership of Registrations Nos. 271,309 and 371,361.

For Hams, Bacon, and Luncheon Meat.

Claims use since 1914.

563,724. (Class 39. Clothing.) S. Dennis Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 7, 1950; amended to application, Supplemental Register, Apr. 4, 1952, Serial No. 590,495.

Dennis of new york

For Men's Shirts.

Claims use since Dec. 15, 1947.

563,725. (Class 49. Distilled Alcoholic Liquors.) James B. Beam Distilling Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 22, 1950; amended to application, Supplemental Register, Jan. 24, 1952, Serial No. 596,149.

DISTILLERS RESERVE

For Whiskey.

Claims use since Apr. 6, 1940.

563,726. (Class 38. Prints and Publications.) Jim D. Vowell, Fort Worth, Tex. Filed May 19, 1950, Serial No. 597,797.

Homes FOR THE Southwest

For Booklets Published From Time to Time and Containing House Plans Therein.

Claims use since Sept. 24, 147.

563,727. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) The Everedy Company, Frederick, Md. Original filed, act of 1946, Principal Register, June 28, 1950; amended to application, Supplemental Register, June 6, 1952, Serial No. 599,866.

EVEREDY Korn Popper

The drawing is lined for red. Applicant claims ownership of Registrations Nos. 234,983, 269,765, and others.

For Metallic Hollow Ware Flat Bottom Receptacle and Heat Confining Cover for Use in Popping Corn, the Flat Bottom of the Receptacle Resting on the Heating Element of an Electric Range or the Grill of a Gas Range, or Other Heated Surface.

Claims use since June 26, 1950.

563,728. (Class 39. Clothing.) Katz, Jacobson & Paris, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 17, 1950; amended to application, Supplemental Register, Oct. 20, 1951, Serial No. 602,320.

Cuba Lounge

For Men's and Boys' Suits.

Claims use since May 22, 1950.

563,729. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) General Motors Corporation, Detroit, Mich. Original filed, act of 1946, Principal Register, Aug. 19, 1950; amended to application, Supplemental Register, May 2, 1952, Serial No. 602,447.

fusel kote

For Metal Tubing.

Claims use since July 20, 1950.

563,730. (Class 39. Clothing.) MacLachlan Hats, Incorporated, Norwalk, Conn. Filed Aug. 28, 1950, Serial No. 602,849.

SILVER BEAVER

For Men's Fur Felt Hats Made Substantially of Beaver Fur.

Claims use since March 1943.

563,731. (Class 39. Clothing.) MacLachlan Hats, Incorporated, Norwalk, Conn. Filed Aug. 28, 1950, Serial No. 602,850.

GOLDEN BEAVER

For Men's Fur Felt Hats Made of 100% Beaver Fur.

Claims use since June 1948.

563,732. (Class 21. Electrical Apparatus, Machines, and Supplies.) Berg Manufacturing & Sales Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 29, 1950; amended to application, Supplemental Register, Jan. 17, 1952, Serial No. 602,884.

SHUR-LOCK

For Electrical Connectors for Releasably Joining the Electrical Cables of Tractor-Trailer Combines.

Claims use since Apr. 14, 1949.

563,733. (Class 32. Furniture and Upholstery.) Paris Decorators Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 21, 1950; amended to application, Supplemental Register, June 2, 1952, Serial No. 603,851.

Foam-Fitted

The word "Foam" is disclaimed.

For Sofas, Love Seats, Chairs, Studio Couches, Divans, Sleeping Sofas and Love Seats, Mattresses, Box Springs, Head Boards, Benches, Poufs and Stools.

Claims use since July 29, 1950.

563,734. (Class 46. Foods and Ingredients of Foods.) Zuider Zee Products, Inc., Charlottesville, Va. Original filed, act of 1946, Principal Register, Dec. 14, 1950; amended to application, Supplemental Register, Mar. 26, 1952, Serial No. 607,694.

ZUIDER ZEE

For Food Sauce Containing Egg Yolks, Vegetable Fat, Lemon Juice, Vinegar and Seasoning Ingredients, for Use With Vegetables—Namely, Asparagus, Broccoli, Cauliflower, Artichokes, and the Like.

Claims use since Aug. 1, 1950.

563,735. (Class 39. Clothing.) L. B. Hosiery Co., Inc., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Jan. 18, 1951; amended to application, Supplemental Register, Feb. 29, 1952, Serial No. 608,936.

FAD

For Ladies' Full-Fashioned and Seamless Hosiery.

Claims use since on or about Feb. 1, 1938.

563,736. (Class 39. Clothing.) Herman Sampli, doing business as Fine Maid Sales, Quakertown, Pa. Original filed, act of 1946, Principal Register, Feb. 8, 1951; amended to application, Supplemental Register, Jan. 18, 1952, Serial No. 609,817.

Fine Maid

For Full Fashioned Hosiery for Women.

Claims use since Nov. 20, 1950.

563,737. (Class 7. Cordage.) American Cordage & Paper Corp., New York, N. Y. Filed Feb. 20, 1951, Serial No. 610,305.

Twine Pak

For Twine.

Claims use since Jan. 3, 1950.

563,738. (Class 39. Clothing.) The Willow Shirt Corporation, New Haven, Conn. Original filed, act of 1946, Principal Register, Feb. 23, 1951; amended to application, Supplemental Register, Mar. 29, 1952, Serial No. 610,482.

Daniels

For Men's and Ladies' Shirts.

Claims use since on or about Dec. 1, 1950.

563,739. (Class 39. Clothing.) Paul Krupp, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 3, 1951; amended to application, Supplemental Register, Apr. 5, 1952, Serial No. 613,465.

Purk

For Men's and Boys' Sport and Dress Shirts and Ladies' Sport Shirts.
Claims use since Feb. 27, 1951.

563,740. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) American Luggage Works Inc., Providence, R. I. Original filed, act of 1946, Principal Register, May 7, 1951; amended to application, Supplemental Register, Dec. 4, 1951, Serial No. 613,580.

HI-TAPER

For Hand Luggage—Namely, Train Cases, Cosmetic Cases, Round Hat Cases, Overnight Cases, Ladies' Weekend Cases, Ladies' Wardrobe Cases, Ladies' Pullman Cases, Wardrobe Pullman Cases, and Ladies' Hat and Shoe Cases.
Claims use since Jan. 3, 1950.

563,741. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Globe Hoist Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, May 28, 1951; amended to application, Supplemental Register, Jan. 17, 1952, Serial No. 614,433.

FRAME KONTACT

For Stationary Hydraulic Automobile Hoist.
Claims use since Sept. 20, 1950.

563,742. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) A. J. Siris Products Corp., New York, N. Y. Original filed, act of 1946, Principal Register, June 15, 1951; amended to application, Supplemental Register, June 11, 1952, Serial No. 615,253.

mc Duff

For Wallets.
Claims use since May 1951.

563,743. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Roll-A-Line, Inc., Tulsa, Okla. Original filed, act of 1946, Principal Register, June 21, 1951; amended to application, Supplemental Register, June 19, 1952, Serial No. 615,502.

ROLL-A-LINE

For Automatically and Manually Operable Copy Holders for Use by Typists, Stenographers, Etc.
Claims use since June 13, 1951.

563,744. (Class 38. Prints and Publications.) Syndicate Store Merchandiser, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 5, 1951; amended to application, Supplemental Register, June 5, 1952, Serial No. 616,145.

VARIETY STORE MERCHANDISER

DIRECTORY
OF THE VARIETY MARKET

Applicant claims ownership of Registration No. 537,492.
For Trade-Journal.
Claims use since June 1, 1951.

563,745. (Class 39. Clothing.) Imperial Brassiere Corp., New York, N. Y. Original filed, act of 1946, Principal Register, July 20, 1951; amended to application, Supplemental Register, June 26, 1952, Serial No. 616,710.

"Fuller Bust"

For Brassières.
Claims use since June 18, 1951.

563,746. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Consolidated Leather Mfg. Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 25, 1951; amended to application, Supplemental Register, May 17, 1952, Serial No. 618,084.

TOOL-O-CRAFT

For Wallets, Billfolds, Handbags, Schoolbags, Bags in the Nature of Luggage, Purses, Keycases, and Saddles.
Claims use since Jan. 2, 1951.

563,747. (Class 38. Prints and Publications.) Television Forecast, Inc., Chicago, Ill. Filed Jan. 9, 1952, Serial No. 623,380.

TV FORECAST

Applicant claims ownership of Registration No. 556,791.
For Periodical Publication, Including Advertising Matter and the Coming Programs of Television Broadcasting Stations.
Claims use since Sept. 3, 1949.

563,748. (Class 39. Clothing.) Sport-Modes of Boston, Boston, Mass. Original filed, act of 1946, Principal Register, Jan. 16, 1952; amended to application, Supplemental Register, June 10, 1952, Serial No. 623,686.

Wear-A-Lot

For Ladies' and Misses' Culottes, Slacks, Jackets, Blouses, Play Shorts, Skirts, and Dresses.
Claims use since Dec. 4, 1950.

TRADE-MARK REGISTRATIONS RENEWED

86,418. "BLUE RIBBON" ETC. AND DRAWING. Registered May 7, 1912. Thos. H. Lynch, near Fresno, Calif. Re-renewed May 7, 1952, to United Packing Co., Fresno, Calif., a co-partnership. Fresh Grapes. Class 46.

294,197. BULL DOG. Registered May 24, 1932. The Reece Button Hole Machine Co. Renewed May 24, 1952, to The Reece Corporation, Boston, Mass., a corporation of Massachusetts. Sewing Machines. Class 23.

294,198. BOND STREET. Registered May 24, 1932. The Reece Button Hole Machine Co. Renewed May 24, 1952, to The Reece Corporation, Boston, Mass., a corporation of Massachusetts. Sewing Machines. Class 23.

294,199. IRON DUKE. Registered May 24, 1932. The Reece Button Hole Machine Co. Renewed May 24, 1952, to The Reece Corporation, Boston, Mass., a corporation of Massachusetts. Sewing Machines. Class 23.

294,840. MELO-MALT. Registered June 7, 1932. United Drug Company, Boston, Mass. Renewed June 7, 1952, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Medicinal Preparation Consisting of a Compound of Cod Liver Oil and Malt Extract (Suitably Flavored). Class 18.

294,996. "SNIA VISCOSA" ETC. AND DRAWING LINED FOR GREEN, RED, AND YELLOW. Registered June 14, 1932. Snia-Viscosa Società Nazionale Industria Applicazioni Viscosa, Milan, Italy, a corporation organized under the laws of Italy. Renewed June 14, 1952. Artificial Silk, Spun, Thrown, Sewing or Knitting, Twist, Yarn, and Thread. Class 43.

295,272. SL. Registered June 28, 1932. Società Anonima Cooperativa Latteria Soresinese, Soresina, Italy, a corporation organized under the laws of Italy. Renewed June 28, 1952. Cheese, Butter, and Milk Products. Class 46.

295,989. NEW HOPE. Registered July 19, 1932. Belluomini & Klein, Walnut Grove, Calif. Renewed July 19, 1952, to A. E. Gianelli, Stockton, Calif. Fresh Vegetables. Class 46.

296,079. "IT CLEANS" AND DRAWING. Registered July 19, 1932. Los Angeles Soap Company, Los Angeles, Calif., a corporation of California. Renewed July 19, 1952. Washing Powder. Class 52.

296,475. "F R FRATERNITY ROW" AND DESIGN. Registered Aug. 9, 1932. Harris Clothing Company, Baltimore, Md., a firm. Renewed Aug. 9, 1952. Young Men's and Students' Three and Four Piece Suits, Overcoats, and Top Coats. Class 39.

296,730. "ECONOMY SILOS" AND DRAWING. Registered Aug. 16, 1932. The Economy Silo & Mfg. Co., Frederick, Md. Renewed Aug. 16, 1952, to J. C. Snavely & Sons, Inc., Landisville, Pa., a corporation of Pennsylvania. Silos. Class 2.

297,557. MO-BISCUIT. Registered Sept. 20, 1932. Cosby-Hodges Milling Co. Inc., Birmingham, Ala., a corporation of Alabama. Renewed Sept. 20, 1952. Wheat Flour. Class 46.

297,622. MAZZINI. Registered Sept. 20, 1932. Joseph Di Santo, doing business as Di Santo & Company, Duluth, Minn. Renewed Sept. 20, 1952. Food Flavors—Namely, Grenadine Syrup, Tamarind Syrup, and Orgeat Syrup; Also Canned Asparagus, Etc. Class 46.

297,637. RETRIEVER. Registered Sept. 20, 1932. W. B. Grainger Packing Company. Renewed Sept. 20, 1952, to W. B. Grainger Packing Company, Salinas, Calif., a partnership. Fresh Vegetables. Class 46.

297,711. "ROSY" AND DRAWING. Registered Sept. 27, 1932. United Packing Company. Renewed Sept. 27, 1952, to United Packing Co., Fresno, Calif., a co-partnership. Fresh Grapes, Fresh Deciduous Fruits, Fresh Citrus Fruits, Olives in Natural State, Etc. Class 46.

298,024. ARCHERY. Registered Oct. 11, 1932. North Whittier Heights Citrus Association. Renewed Oct. 11, 1952, to North Whittier Heights Citrus Association, Puente, Calif., a corporation of California. Fresh Citrus Fruit. Class 46.

298,257. WATAMAN. Registered Oct. 18, 1932. F. V. Birbeck. Renewed Oct. 18, 1952, to F. V. Birbeck Co., Watsonville, Calif., a co-partnership. Fresh Vegetables. Class 46.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

224,972. BOB WHITE. Registered Mar. 8, 1927. Howard Wilson Anderson, Stewartstown, Pa. Fresh and Canned Tomatoes, Apples, and Peaches. Class 46. Amended as follows: In the statement, line 3, "and canned tomatoes," is deleted, as is also the first ocurring comma in line 7.

327,868. "FIRST LADY". Registered Sept. 10, 1935. Wm. T. Knott Company, Inc., New York, N. Y. Electric Vacuum Cleaners, Electric Waffle Irons, Etc. Class 21. Amended as follows: In the statement, lines 12 and 13, "electric curling irons," is deleted.

394,737. O IN TRIANGLE IN COMBINATION WITH WORD OTIS. Registered Apr. 28, 1942. The Falls Company, Norwich, Conn. Cotton Awning Fabrics and Cloths. Class 42. Amended as follows: In the statement, line 6, "and cloths" is deleted.

552,651. BIT-U-MIX. Registered Jan. 1, 1952. American Bitumuls Company, Wilmington, Del., and San Francisco, Calif. Surfacing Material of Bituminous Mix To Be Laid Upon Any Standard Base in the Resurfacing of Old Streets, Etc. Class 12. Amended as follows: In the certificate, line 4, and in the statement, line 3, after "Delaware," *Now by change of name American Bitumuls & Asphalt Company*, is inserted; and in the heading and signature to the statement, after "Company," *Now by change of name American Bitumuls & Asphalt Company*, is inserted.

553,791. CONOLITE. Registered Jan. 22, 1952. Continental Can Company Inc., New York, N. Y. Decorative Laminated Plastic Sheets. Class 12. Amended as follows: In the statement, line 7, "decorative" is deleted.

559,442. LILLY CHRISTINE "THE CAT GIRL". Registered May 27, 1952. Martha T. M. Pompender, New York, N. Y. Entertainment Service in the Nature of Original Dances and Singing Rendered Through the Medium of Personal Appearances. Class 107. Corrected as follows: In the statement, column 1, line 11, before "SINGING" insert *ORIGINAL DANCES AND*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 192,923. Registered Dec. 16, 1924. C. C. Morse & Co., San Francisco, Calif. Republished by Ferry-Morse Seed Co., Mountain View, Calif., a corporation of Michigan.

Golden Gate Park

For Grass Seed.
Claims use since prior to 1906.

Reg. No. 423,005. Registered Aug. 20, 1946. Ferry-Morse Seed Co., San Francisco, Calif, a corporation of Michigan. Republished by registrant, present address Mountain View, Calif.

Exposition Park

The word "Park" is disclaimed apart from the mark as shown.
For Grass Seed.
Claims use since Sept. 14, 1945.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Reg. No. 294,514. Registered May 31, 1932. United Chemical Company, Kansas City, Mo., a corporation of Missouri. Republished by registrant.

SUNNESHEEN

For Liquid Wax for Floors, Linoleums, Rubber Tile, Asphalt Tile, Mastic, and Terraza.
Claims use since Oct. 1, 1931.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 296,798. Registered Aug. 23, 1932. (Classified in Class 46.) Joe Lowe Corporation, Brooklyn, N. Y., a corporation of Delaware. Republished by registrant, present address New York, N. Y.
See this number in Class 46 for goods and mark.
Claims use since about 1919.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 193,420. Registered Dec. 30, 1924. Jackson-Wheeler Metals Service, Brooklyn, N. Y. Republished by Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y., a corporation of New York.

TUFTEX
Bearing Alloys

The words "Bearing Alloys" are disclaimed apart from the mark as shown.
For Bearing Alloys and White Metal Alloys Used as Antifrictional Media.
Claims use since Feb. 1, 1924.

CLASS 15

OILS AND GREASES

Reg. No. 279,954. Registered Feb. 10, 1931. Richfield Oil Company of California, Los Angeles, Calif. Republished by Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware.

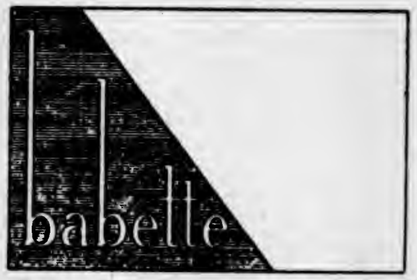
RIOCO

For Petroleum and Products of Petroleum With or Without Admixture of Other Materials for Illuminating, Etc.
Claims use since Nov. 1, 1929.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 292,070. Registered Mar. 1, 1932. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Republished by The May Department Stores Company, St. Louis, Mo., a corporation of New York.

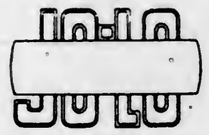


For Sanitary Belts, Sanitary Aprons, Sanitary Skirts, Sanitary Bloomers, Sanitary Step-Ins.
Claims use since about Aug. 9, 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 296,798. Registered Aug. 23, 1932. Joe Lowe Corporation, Brooklyn, N. Y., a corporation of Delaware. Republished by registrant, present address New York, N. Y.



For Baking Powder and Bicarbonate of Soda.
Claims use since about 1919.

Reg. No. 307,104. Registered Oct. 17, 1933. Griggs, Cooper & Co., also doing business as Sanitary Food Mfg. Co., St. Paul, Minn., a corporation of Delaware. Republished by registrant.

PRIMROSE

For Gelatine, Cocoa, Apple Butter, Honey, Jelly, Mince Meat, Marmalade, Fruit Preserves, Coffee, Tea, Table Syrup, Sorghum, Chow Chow, Mustard, Olives, Bottled Sweet Onions, Pickles, Sweet Relish, Vinegar, Tapioca, Malt Syrup, Macaroni, Spaghetti, Noodles, and Vermicelli.
Claims use since Oct. 1, 1899.

Reg. No. 321,461. Registered Feb. 5, 1935. Griggs, Cooper & Company, also doing business as Sanitary Food Manufacturing Co., St. Paul, Minn., a corporation of Delaware. Republished by registrant.

Minuet

For Coffee and Soda Crackers.
Claims use since Mar. 5, 1912.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 296,461. Registered Aug. 9, 1932. Macdonald & Muir, Leith, Scotland. Republished by Macdonald & Muir Limited, Leith, Scotland, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland.

HIGHLAND QUEEN

For Whisky.
Claims use since 1902.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 345,096. Registered Apr. 13, 1937. Fort Orange Chemical Co., Inc., Albany, N. Y., a corporation of New York. Republished by registrant.

Dentlock

For Adhesive Denture Powder.
Claims use since June 17, 1935.

Reg. No. 358,890. Registered July 26, 1938. Fort Orange Chemical Co., Inc., Albany, N. Y., a corporation of New York. Republished by registrant.

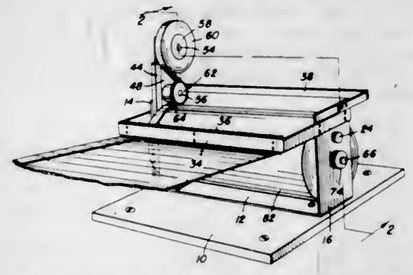
Dentglo

For Cleansing Powder for Dentures.
Claims use since Jan. 11, 1938.

REISSUES

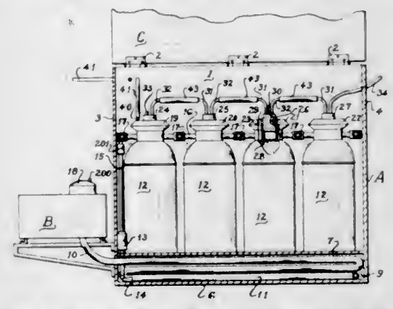
SEPTEMBER 2, 1952

23,542
APPARATUS FOR PREPARING MASKING APRONS
William A. Bihary, Miami, Fla., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Original No. 2,522,773, dated September 19, 1950, Serial No. 64,482, December 10, 1948. Application for reissue June 10, 1952, Serial No. 292,777
4 Claims. (Cl. 154—1.6)



1. An apparatus for preparing masking aprons comprising a base, a U-shaped frame secured at its web portion to said base, a masking paper roll, means for rotatably retaining said roll on the legs of said frame spaced from said base, a vertical support secured to one leg of said frame, a carriage slidably and guidingly mounted on said support, an adhesive tape roll rotatably mounted on said carriage, a presser roll rotatably mounted on said carriage beneath said adhesive tape roll, said pressure roll including a peripheral flange adapted to contact the tape and urge it against the masking paper roll, and means for adjusting said masking paper roll relative to said pressure roll.

23,543
MILKING SYSTEM AND APPARATUS THEREFOR
George R. Duncan, Washington, Mo.
Original No. 2,498,401, dated February 21, 1950, Serial No. 89,375, April 25, 1949. Application for reissue November 28, 1950, Serial No. 198,016
26 Claims. (Cl. 119—14.09)



1. In a system for simultaneously milking a domestic farm animal and for cooling and storing the milk in cans, without handling, as it comes from the animal comprising a container *having a cooling chamber provided with supporting means for supporting a plurality of cans in said chamber in upright position*, a plurality of milk cans having covers, [a milking machine having] a milk conduit, a vacuum conduit; conduit means including said conduits first named for connecting said interiors of said milk cans through the covers thereof and connecting the interiors of said cans in series to each other, said conduit means extending into the interior of each can and having openings located closely adjacent to each other, and means defining a restricted chamber extending below said openings, said chamber having at least one opening located below said pair of openings, said opening located below said pair of openings being of larger size than either of the openings of said pair of openings, said conduit means extending into said container, and controllable mechanical refrigerating and *dissipating* [cooling] means operatively connected to said container *including means for circulating cooling water within said cooling chamber* for continuously cooling the milk in said cans and removing body heat therefrom following the milking operation and for maintaining a substantially predetermined temperature of the milk in said cans within said container.

23,544
MEANS FOR MILKING DOMESTIC FARM ANIMALS AND FOR TEMPORARILY STORING MILK AND COOLING IT
George R. Duncan, Washington, Mo.
Original No. 2,470,979, dated May 24, 1949, Serial No. 676,368, June 13, 1946. Application for reissue November 28, 1950, Serial No. 198,017
17 Claims. (Cl. 119—14.09)



21. A system for simultaneously milking a domestic farm animal and for cooling and storing the milk without handling as it comes from the animal comprising: a container having a cooling chamber provided with supporting means for supporting a milk can in said chamber, a first conduit means adapted for connection to a source of minus pressure, a second conduit means having teat cups for connection to the teats of the animal's udder, milk can closure means for permitting a minus pressure within a can to which said header has been attached during the milking operation, means directly connecting both of said conduit means to said closure means, whereby minus pressure may be applied to said teat cups through said first conduit means, said closure means and said second conduit means, and controllable mechanical refrigerating and dissipating means mounted on said container operatively connected to said container including means for circulating a cooling medium within said cooling chamber for continuously cooling the milk in said can and removing body heat therefrom during the milking operation and maintaining a predetermined temperature.

PLANT PATENTS

GRANTED SEPTEMBER 2, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,124
ROSE PLANT
Josephine D. Brownell, Little Compton, R. I.
Application May 22, 1951, Serial No. 227,576
1 Claim. (Cl. 47—61)

The rose plant variety substantially as shown and described, characterized by its unique color, form, arrangement, bloom cluster, habit of growth and resistance to moderate sub-zero temperatures and to blackspot.

1,125
SHASTA DAISY PLANT
Francis George Read, Deopham, Wymondham, Norfolk, England, assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application June 20, 1951, Serial No. 232,515
1 Claim. (Cl. 47—60)

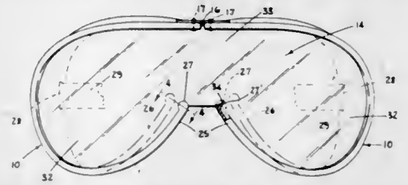
A new and distinct variety of Shasta daisy plant of the large anemone-flowered type of *Chrysanthemum maximum*, characterized as to novelty by its superior productivity of salable, long-stemmed cut flowers, by the longer-lasting quality of its white flowers both as cut flowers and on the plant, by its thick, leathery, large foliage, and by its taller and later-blooming habits of growth, substantially as herein shown and described.

PATENTS

GRANTED SEPTEMBER 2, 1952

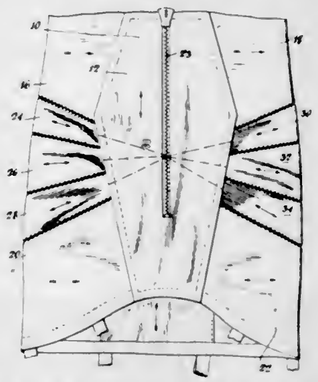
GENERAL AND MECHANICAL

2,608,687
EYE PROTECTION DEVICE
Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application January 2, 1948, Serial No. 107
3 Claims. (Cl. 2—14)



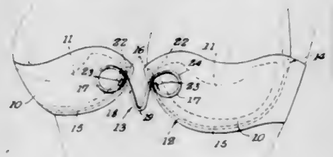
2. An eye protection device of the character described comprising a transparent flexible shield embodying a pair of eye portions joined by an intermediate nasal portion formed integrally therewith, and a pair of divided eyecups each having a portion to receive the adjacent outer edge of said eye portions of the shield, with the upper and lower ends of each eyecup being disposed adjacent said intermediate portion of the shield and spaced from the adjacent ends of the other eyecup to permit a flexing of said intermediate portion of the shield intermediate said spaced ends of the eyecups to readily accommodate the device to the curvature of the face of the wearer.

2,608,688
TAPERING PANEL CONSTRUCTION FOR FOUNDATION GARMENTS
Joseph Leonard, Allentown, Pa., assignor to Mona Lisa Foundations, Inc., a corporation of New York
Application October 31, 1951, Serial No. 254,085
4 Claims. (Cl. 2—36)



1. In a foundation garment having a plurality of fabric panels joined together circumferentially to form an integral garment the combination comprising: a front fabric panel, a back fabric panel, elastic fabric panels attached to side edges of the top and bottom portions of the front and back panels on each side of the garment, said elastic panels being stretchable horizontally but not vertically and being affixed to the garment so that tapered elastic panels may be interposed in the garment between the aforesaid top and bottom horizontally stretching fabric panels, a plurality of tapered elastic fabric panels joined together along their contiguous edges and attached at their free edges to the sides of the front and back panels and to inner edges of the horizontally stretchable elastic panels connecting the front and back panels, each such fabric panel being tapered symmetrically and being stretchable along a single line of elasticity and only in a direction along the axis of each such taper, such fabric panels being attached to the garment so that the axis of each fabric panel tends to meet the axes of the other tapered fabric panels at a point adjacent the front midpoint of the garment forming thereby a foundation garment capable of pulling the abdomen of the wearer in along diverging lines of uniform tension at the same time that the garment tends to pull the buttocks up along converging lines.

2,608,689
BRASSIÈRE CONNECTING ELEMENT
Karl Van Leuven, Jr., Hollywood, Calif., assignor to Ina Yoakum, Los Angeles, Calif.
Application February 10, 1947, Serial No. 727,504
5 Claims. (Cl. 2—42)

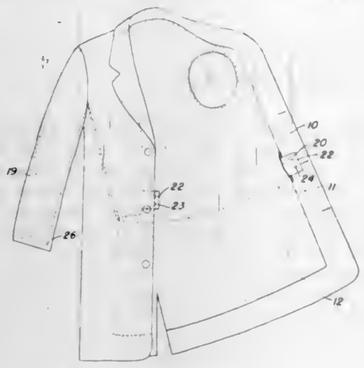


1. A connecting element for a brassière having separate breast-supporting cups, comprising an integral length of wire having curved end portions adapted to extend through and along the lower edges of the cups and to terminate at the sides thereof, said wire being formed with a connecting portion having opposed laterally directed loops adapted to reside outside of and to bear against adjacent outer portions of the cups, and a non-frictional covering for said connecting portion of the element.

2,608,690
OUTER GARMENT
Philip C. Kolb, Rochester, and Edward Austin Byrne, New York, N. Y.
Application September 27, 1949, Serial No. 117,982
2 Claims. (Cl. 2—97)

1. A coat comprising an outer shell, an inner lining which is fastened to the outer shell only at the shoulders and along the front seams at

the opening of the garment, an interlining between the outer shell and the inner lining, said interlining being in the form of an inflatable jacket which has tabs at its bottom passing through openings in the inner lining, and means



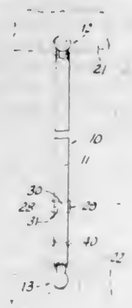
for fastening said tabs together to cause the inner lining and the lower part of the jacket to fit snugly about the body of the wearer while allowing the outer shell to hang freely from the shoulders of the wearer.

2,608,691
BLOUSE HOLDER
Elaine Berg, Chicago, Ill.
Application February 26, 1951, Serial No. 212,805
1 Claim. (Cl. 2—323)



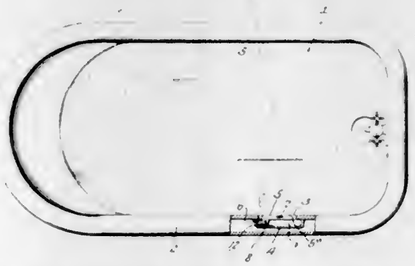
A blouse holder assembly comprising a lower portion of a blouse, a thin, flat disc having an aperture for passing and securing an elongated elastic tension member, said blouse portion being covered over said disc and gathered about said tension member, and a flat, rigid slot member, said slot member having an elongated, narrow slot of sufficient length to pass the blouse covered disc and of sufficient width to pass the blouse covered disc and tension member, the rigid slot member having the disc and covering blouse portion passed through the slot, and the elastic tension member pulling the disc flatly against said slot member, the said elastic tension member being provided at its opposite end with a plurality of loops located at successively longer portions of said elastic member, for attachment to a greater member, to regulate the length and tension of said tension member, and a garter member secured to a stocking, and having a part of the garter member passed through one of said loops, the said tension member pulling upward on said garter member and downward on said blouse.

2,608,692
COMBINED STOCKING SUPPORTER AND BLOUSE HOLDER
Elaine Berg, Chicago, Ill.
Application November 5, 1947, Serial No. 784,154
5 Claims. (Cl. 2—323)



4. In a supporter assembly for supporting stockings and holding down shirts or the like, the combination of a strip of elastic material with a garter fastener secured to its lower end for engagement with a stocking, a thin, flat, circular disc having a pair of apertures, a strip of tape fastened through said apertures and being formed into a loop and having its ends stitched adjacent to the upper end of the elastic strip, said elastic strip also having a loop formed in its end adjacent to said disc by bending the strip upon itself and securing the overlapping parts by stitching, and said latter loop supporting a thin, flat, rigid slot member of sufficient length to pass said disc, and of sufficient width to pass said disc but of such shape that the disc will engage flatly against said rigid slot member when it has been passed through the latter and is drawn in position by its tape.

2,608,693
ATTACHMENT FOR BATHTUBS
Knut L. Hansen, Antioch, Calif.
Application July 18, 1950, Serial No. 174,510
1 Claim. (Cl. 4—185)



The combination with a bathtub having an outwardly rolled top edge extending around its upright walls, said bathtub having a slot opening from within the tub into the space below said rolled edge, a casing secured to the outer surface of the bathtub beneath the rolled edge and having a bottom wall aligned with the bottom of said slot whereby liquid in said casing will drain into the tub, said casing enclosing the outer opening

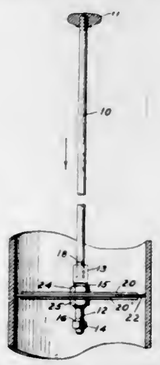
of the slot throughout whereby to prevent liquid in the casing from draining on to a floor supporting the tub, a handle normally extending along said slot and resting on the bottom of the slot, said handle normally partially closing said slot, an arm extending from one end of the handle into said casing and resting on the bottom wall thereof, said arm having an end rectangular in plan, a pivot extending upwardly from the bottom wall of the casing through said arm, and a leaf spring in said casing bearing against said rectangular end.

2,608,694
COVER FOR TOILET SEAT LIDS
Robert Gardner McCamy, Dalton, Ga., assignor to Cabin Crafts, Inc., Dalton, Ga., a corporation of Georgia
Application September 27, 1949, Serial No. 117,991
1 Claim. (Cl. 4—242)



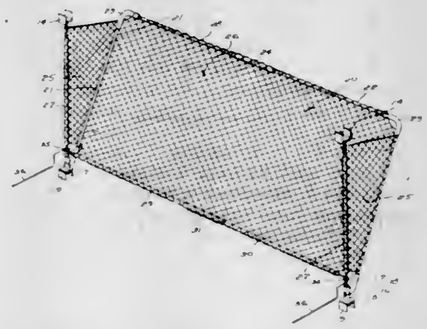
A cover for a toilet seat lid hinged at the back edge of the lid, comprising sheet material adapted to cover the top and to be turned under all sides of the lid including the back edge, in combination with an elastic cord in the edge of the sheet material adapted to be under tension when the cover is on the lid, there being a gap in the cord between the hinges of the lid, and at the ends of the cord being fastened to the material beyond the back edge of the lid in a direction turning toward each other, whereby the forming of corners in the sheet material under the lid beside the hinges is facilitated and the cover lies flat at the back of the lid.

2,608,695
PLUNGER FOR CLEARING WASTE PIPES AND DRAINS
George B. Skibowski, Pontiac, Mich.
Application March 24, 1949, Serial No. 83,133
2 Claims. (Cl. 4—255)



1. A portable pressure suction plunger for removing and dislodging obstructions in drain pipes, comprising a rod, a handle on one end of said rod, a pair of abutment stops on the other end of said rod arranged in spaced apart relation, a sleeve slidably mounted on said rod between said stops and of a length less than the spacing between said stops, a flat flexible pressure and suction disk mounted on said sleeve of a diameter slightly greater than the drain pipe, a pair of metal disks on said sleeve arranged one on each side of said flexible disk having a diameter slightly smaller than the diameter of said flexible disk, and retaining nuts threaded on the opposite ends of said sleeve for clampingly engaging said metal disks and urging them into contactual engagement with the flexible disk.

2,608,696
PROTECTIVE NET ATTACHMENT FOR CRIB BEDS
Norman C. Le Roy, Miami, Fla.
Application May 12, 1950, Serial No. 161,618
3 Claims. (Cl. 5—100)

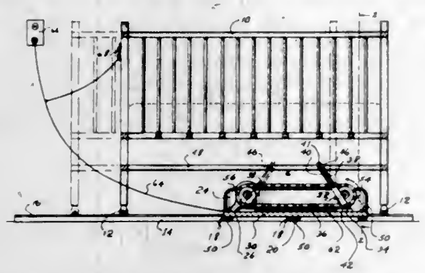


1. A safety net attachment for a crib which has a drop side provided with openings therein, said safety net comprising a net, a plurality of mounting means adapted to be mounted on the lower part of said drop side, a plurality of supports, each of which is secured at one end to one of said mounting means, each of said supports being vertically adjustable with respect to the mounting means, each of said supports having an adjustable extension at the other end thereof, each of said extensions adapted to be connected to the upper part of said drop side, a U-shaped frame pivotally connected to at least two of said mounting means, the net of said safety net being secured at one end to one of said supports and at the other end to another of said supports, said net also being secured intermediate its ends to said U-shaped frame, a rod carried by the lower part of said net, brackets connected with the opposite ends of said rod and with the supports, the brackets being extended to underlie a mattress supported in the crib whereby the lower part of said net may be brought into releasable engagement with the lower part of the drop side.

2,608,697
CRIB ROCKING MECHANISM
Bruno Condemi, Yardville, N. J.
Application November 1, 1950, Serial No. 193,454
3 Claims. (Cl. 5—109)

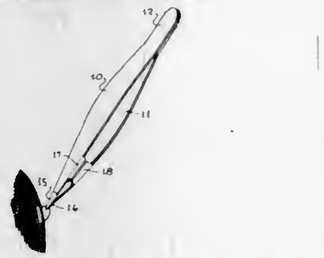
2. An electrical mechanism for effecting reciprocative movement of a crib having supporting rollers, said mechanism comprising a pair of tracks for said rollers connected by pairs of opposed, transverse bars having their inner end portions in adjustable overlapping relation, registering parallel slots in said bars, a base mounted

on the upper of said bars and having bolt holes registering with said slots, bolts projecting through said bolt holes and slots and having nuts on one end thereof for clamping said base and bars together, a motor mounted on one end of said base and having a drive sprocket wheel,



a driven sprocket wheel mounted on the other end of said base, a sprocket chain connecting said sprocket wheels, a bar pivoted at one end to said chain and having a longitudinal slot in its other end for engagement with a pivot pin on a crib, and a control switch for starting and stopping said motor.

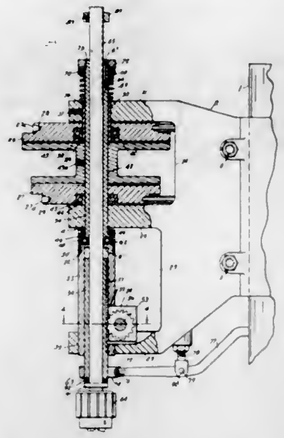
2,608,698
BURLING TOOL
Daniel J. Mindheim, Newark, N. J.
Application June 9, 1950, Serial No. 167,003
2 Claims. (Cl. 7—14.1)



1. A burling tool comprising a pair of flat legs of resilient material firmly secured together at one end of said tool and having mutually opposed pointed ends at the other end of the tool, said legs being shaped to resiliently hold said pointed ends spaced apart, and cutting blade formations disposed one on each leg adjacent the pointed end thereof and extending along the corresponding edges of the associated legs, said blade formations being disposed in mutually opposed relationship at the same side of the tool and each having a flat surface in alignment with the corresponding edge of the associated leg, and said legs being longitudinally curved so that said pointed ends close before said blade formations.

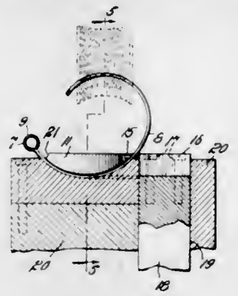
2,608,699
TAPPING MACHINE
Steve Csencsics, Erie, Pa.
Application July 19, 1948, Serial No. 39,531
1 Claim. (Cl. 10—136)

In a machine tool, a support frame, a rotatable hollow spindle mounted on said frame and supported for axial movement adjacent each end thereof by spaced bearings, spaced disks rotatably mounted on said frame between said spaced bearings, a double faced clutch member disposed between said disks and adapted to selectively frictionally engage one of said disks, said clutch member being fixed to said hollow spindle and concentric therewith, means to bias said clutch member to a neutral position between said disks, means to rotate said disks in opposite directions, an axially aligned non-rotatable spindle attached to one end of said rotatable spindle, guide means fixed to said frame for said non-rotatable spindle, said guide means spaced from said spaced bearings, said non-rotatable spindle extending through said guide means, a rotatable shaft con-



centric with and slidable and rotatably associated with said rotatable spindle and extending through sadi non-rotatable spindle, a telescoping sleeve slidably mounted in said non-rotatable spindle and forming a bearing for said rotatable shaft, means to attach a tool to said rotatable shaft, and means on said non-rotatable spindle to move said sleeve and said spindle in opposite directions whereby said clutch is brought into engagement with one of said disks when a tool in said holding means contacts a fixed object.

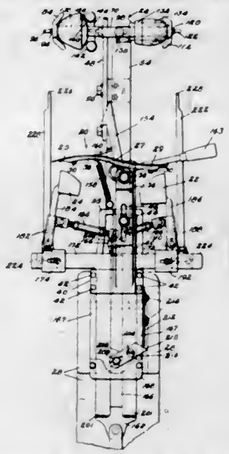
2,608,700
BINDER RING OPENING DEVICE
Clarence D. Trussell, Turnwood, N. Y.
Application June 19, 1951, Serial No. 232,347
5 Claims. (Cl. 11—1)



1. A machine for opening the normally closed rings of a binder having a tubular rib and elastic fingers forming rings projecting from the side of the same and comprising companion concave and convex die members of radius enough greater than the normal radius of the rings to relatively flatten portions of the rings engaged therebetween sufficiently to open them without permanently deforming them and said convex die mem-

ber being composed of presser bars spaced to admit the rings of the binder therebetween and having clearances for the rings at one side to permit longitudinal shifting of the binder to carry the rings into position between the convex presser bars and the concave die member and means for relatively approaching said die members to effect the partial flattening and opening of the rings and for then separating the die members to permit the rings to close.

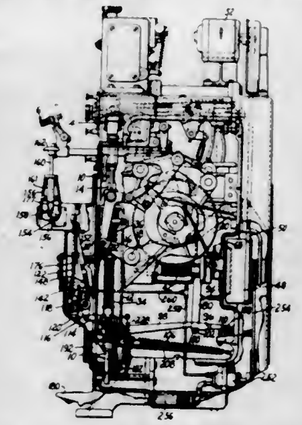
2,608,701
PLATFORM LAYING AND PLATFORM COVER TURNING MACHINE
Edward Quinn, Saugus, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 24, 1950, Serial No. 151,659
11 Claims. (Cl. 12—1)



2. In a machine for use in the manufacture of shoes, a support shaped to fit within an inverted partially completed platform shoe having an upper, a sock lining, and an unturned platform cover united by stitching, said support being adapted to engage the sock lining and thereby to support the shoe, a yieldable clamping means engageable with the periphery of a platform unit to support the platform unit, a carrier for the clamping means movable from a convenient loading position above the shoe to an operating position wherein adjoining precemented surfaces of the platform unit and the sock lining are in contact, operating means for so moving the carrier and for pressing the platform unit down against the sock lining to cause the precemented surfaces to adhere, means for turning the platform cover while the shoe is held down on its support by the operating means, and means operated by the turning means for moving the yieldable clamping means out of the way.

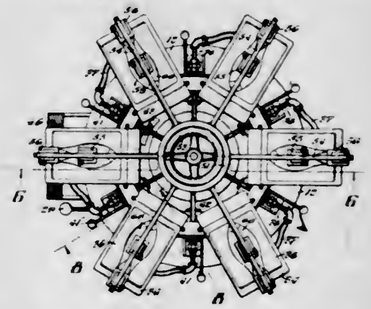
2,608,702
CONTROLLING MEANS FOR POWER-OPERATED MACHINES
Fred T. MacKenzie, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 30, 1951, Serial No. 208,589
12 Claims. (Cl. 12—8.8)

9. In a power-operated machine for operating on work presented thereto, a starting member arranged to be moved by one of the operator's hands to start a cycle of operations of the machine, means requiring the use of the operator's other hand when said starting member is operated to render said member effective thus to start the machine, a member movable into position to control the work, a treadle for thus moving said



controlling member prior to the operation of said starting member, means for stopping the machine automatically prior to the end of the cycle, and means for rendering said treadle effective to start the machine again after it has thus been stopped.

2,608,703
SOLE PRESS OF THE TURRET TYPE
Harold E. Marasco, Swampscott, Mass.
Application April 4, 1951, Serial No. 219,215
11 Claims. (Cl. 12—36.8)

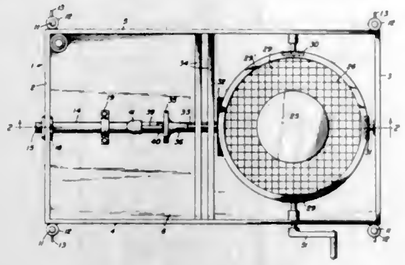


5. A sole press of the turret type comprising a frame, an upright cylinder mounted therein for rotary movement about a vertical axis, a series of radial arms projecting from said cylinder, an inflatable pad mounted at the outer end of each arm at an angle of approximately 45° to the horizontal, a sleeve slidably supported on the upper end of said cylinder and having a radial arm corresponding to each of said pads, heel and toe posts pivoted upon the outer portion of each of said latter arms, and means holding said sleeve in different adjusted positions on the upright cylinder.

2,608,704
DISHWASHING APPARATUS OF THE GEAR-DRIVEN ROTARY BRUSH TYPE
David O. Semel, Los Angeles, Calif.
Original application March 8, 1944, Serial No. 525,558. Divided and this application December 3, 1947, Serial No. 789,395
1 Claim. (Cl. 15—74)

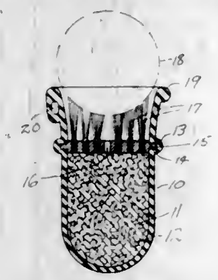
In a dishwashing apparatus, a tank, a rotatably mounted brush unit in said tank includ-

ing a horizontal journaled shaft, a crank on one side of the tank rotatable about a horizontal axis, and means operative by said crank to rotate said shaft at a relatively different speed comprising a circularly arranged series of gears in said tank rotatable about horizontal axes, a



ring gear surmounting and meshing with the series of gears and supported solely thereby, one gear of the series being fast on said crank, and another gear of the series being fast on said shaft and of different diameter than the other gears of the series.

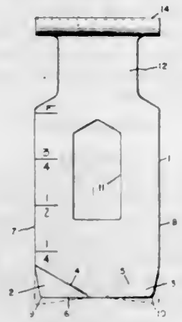
2,608,705
GOLF BALL CLEANER
John R. Duff, Youngstown, Ohio
Application August 3, 1946, Serial No. 688,284
2 Claims. (Cl. 15—136)



1. A golf ball cleaner comprising an elongated distortable tubular body member closed at its bottom end and open at its top end and having an annular groove formed in the wall thereof inwardly from the top end thereof, a disc-like partition having a plurality of orifices therein and engaged in said annular groove, tufts of suitable bristles in a majority of said orifices, the upper free ends of said tufts being shaped and arranged to form a spherical cavity and positioned wholly within said body member and for frictionally engaging a golf ball for cleaning the same, said closed end of the body member beneath the disc-like partition defining a liquid receptacle in communication with said spherical cavity through at least one of said orifices.

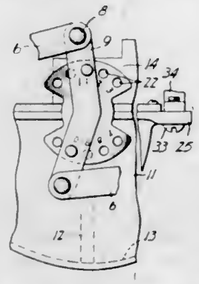
2,608,706
CANNED FOOD SERVER
George P. Wakefield, Vermilion, Ohio
Application April 19, 1950, Serial No. 156,813
4 Claims. (Cl. 15—236)

1. A server for semi-solid canned goods comprising a relatively thin, substantially flat, and generally rectangular body having a twisted end portion constituting an auger, said server being adapted to be inserted into and rotated in a cylindrical can of diameter corresponding to the width of said body to turn out the goods from such can, such auger being defined by oppositely inclined lips bent from said body along lines diverging from the central portion of the end



edge of said body at an angle less than 180°, such lips having side edges and end edges terminating in corners circumscribed by a circle of diameter substantially equal to the width of said body.

2,608,707
WINDSHIELD CLEANER
John R. Oishei, Buffalo, N. Y.
Application November 8, 1949, Serial No. 126,190
6 Claims. (Cl. 15—255)

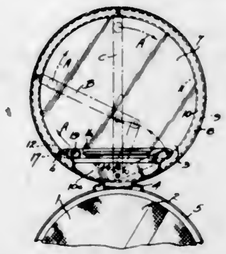


1. A windshield cleaner comprising spaced wipers, oscillatory actuating shafts therefor, an interposed oscillatory drive shaft, a pair of reciprocatory links each connected at its outer end to a respective wiper shaft for oscillating it, a double throw crank member fixed to the drive shaft having selective sets of cooperating seats on the crank member, and replaceable key levers each having parts engageable in only one set of seats differing from the sets of seats engaged by the other key levers for selectively determining the path of the wipers.

2,608,708
WIPER ARRANGEMENT FOR MIRRORS AND THE LIKE
Floyd M. Williamson, Detroit, Mich.
Application April 23, 1947, Serial No. 743,426
5 Claims. (Cl. 15—255)

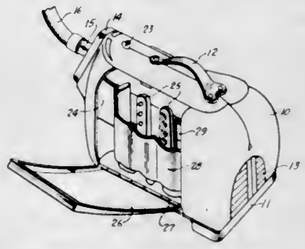
1. A wiping arrangement for an element including a generally circular frame having said element mounted therein, a guide member extending around the frame, a segmental portion on said guide member and spaced from the element, an arm pivoted at one extremity to the segmental portion and extending between said portion and the element whereby said portion engages and retains the arm in position relative to the element, a second arm pivoted adjacent

one of its extremities on the first named arm toward the end of the latter remote from its pivot mounting on the segmental portion, wiping means on at least one of the arms, and means on the extremity of the second arm remote from the



first arm in slidable engagement with the guide member for movement along the latter around the frame whereby when said arms are moved substantially the entire surface of the element is adapted to be wiped by the wiping means.

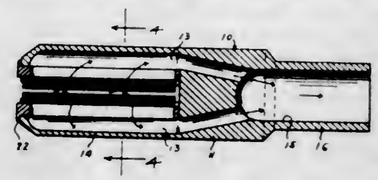
2,608,709
SUCTION CLEANER ADAPTED TO CARRY CLEANER TOOLS
Cordelia P. Benjamin, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application August 12, 1947, Serial No. 768,205
2 Claims. (Cl. 15—323)



1. A suction cleaner comprising an upright casing, a suction unit fixedly mounted within the casing, a dust collecting receptacle within the casing and communicating with said suction unit, said casing having a contiguous upright chamber at one side of said suction unit, a horizontally disposed support within said chamber, a pocketed sheath carried by said support with the pockets therein disposed vertically for receiving cleaning tools, there being a side opening in said casing extending substantially from the bottom to the top thereof through which ready access to the cleaning tools carried by said sheath is had, and a hingedly mounted door for said opening, said door providing a side wall for the casing.

2,608,710
SUCTION BRUSH FOR CLEANING VENETIAN BLINDS
Joseph P. Zaidan, Philadelphia, Pa.
Application June 6, 1950, Serial No. 166,388
1 Claim. (Cl. 15—394)

A Venetian blind slat cleaner comprising a head member formed of a body, a pair of parallel arms extending from one end of said body, a coupling nipple extending from the other end of said body, said arms and body having passages communicating with said nipple, each arm having a longitudinal channel opening through the outer end thereof, an opposed pair of brushes each formed of a rigid back engaging in one of said channels, each back having a longitudinal slot, bristles carried by each of said backs on



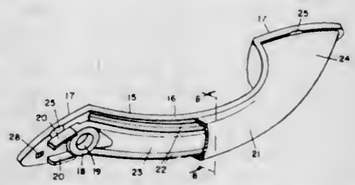
opposite sides of each slot and a lip carried by the outer end of each back engaging against the outer end of an arm, said lip constituting a stop and also providing means whereby said brushes may be withdrawn from said channels.

2,608,711
DELIMITING APPLIANCE FOR CLOSURES
Joseph Leonard Moore, New Carlisle, Ohio, assignor of one-half to Isaac Earl Van Pelt, East Cleveland, Ohio
Application May 4, 1951, Serial No. 224,591
2 Claims. (Cl. 16—82)



1. The combination for use as a delimiter of the relative movement of a hinged closure with respect to its support, comprising a pair of vacuum-cups of predetermined interior contour and of adequate size and selectively attachable to said support and closure respectively and a flexible cord having its ends slidably connected with said cups and said cord being provided with means whereby the length thereof may be manually adjusted to provide various lengths between said cups and secured to each, said double adjustment permitting the cord to become taut and to serve as a check when said closure is in its suitably maximum open position, whereby a series of limited, open positions are achieved upon adjustment of said adjustable cording, the arrangement furthermore permitting the flexible cord to curl into available space behind the closure.

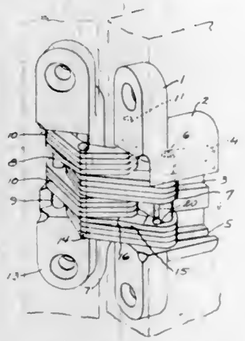
2,608,712
DRAWER PULL
Rome C. Seyforth, Shelby, Ohio, assignor to The Shelby Metal Products Company, Shelby, Ohio, a corporation of Ohio
Application November 1, 1948, Serial No. 57,819
5 Claims. (Cl. 16—125)



1. A drawer pull comprising a base member provided with a hand grip portion and with a foot laterally offset from said hand grip portion and through which foot a headed fastener is

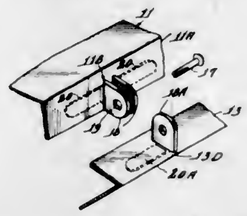
adapted to extend for securing said base member on a drawer front, said base member when thus secured on a drawer front having one side of its hand grip portion spaced from and facing the drawer front whereby the drawer may be opened by exertion of pulling force on such one side, said base member being formed with a rib providing opposed faces which converge toward the drawer front, and a transversely resilient cover member of U-shaped transverse cross-section detachably fitted onto said base member to conceal the fastener therefor and to overlie the other side of said hand grip portion while leaving such one side exposed for exertion of pulling force as aforesaid, said cover member being yieldably snapped over said rib and having opposed faces which are complementary with and yieldably engaged with the opposed faces of said rib, the transverse resilience of said cover member serving to yieldably resist springing apart of the rib-engaging opposed faces of said cover member as would be caused by prying of said cover member in a direction away from said base member and the drawer front.

2,608,713
FRICTION-CATCH HINGE
Samuel Soss, Detroit, Mich., assignor to Soss Manufacturing Company, Detroit, Mich., a corporation of Maine
Application July 30, 1949, Serial No. 107,658
1 Claim. (Cl. 16—140)



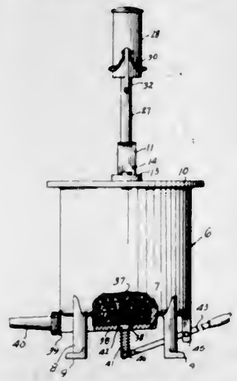
A concealed hinge having in combination a pair of hinge butts for securing one hinge butt to a swinging door pillar and the other hinge butt to a stationary pillar, each butt containing a hinge box, two or more links pivoted to each other intermediate their ends, one of said links having one end pivoted in one hinge box to slide and pivot in the one hinge box so that the one link will swing in this hinge box but by reason of a pin and slot arrangement the link moves bodily inwardly and outwardly of said one hinge box, the opposite end of said one link being simply pivotally supported by a pin to the other hinge box, the second link having the same pivotal and sliding arrangement with the other hinge box and the same pivotal support in said one hinge box, the said links unfolding outwardly into near registry one with the other when the door is opened, one of the links having at least two laminations or leaves, one of the laminations or leaves being a bowed spring leaf which, when the links move outwardly into the overlapping and partly registering relation, is flattened to put stress on the two links and thereby resist the folding in of the links to close the door, the bowed spring leaf having a slotted end for engaging over the pivot pin that moves inwardly and outwardly of the hinge box in which it is seated for such movement, said slot permitting the bowed spring leaf to be flattened when the links move into overlapping and registering position.

2,608,714
HINGE STRUCTURE
Joseph O. Howard, Chicago, Ill.
Application July 29, 1946, Serial No. 687,008
3 Claims. (Cl. 16—159)



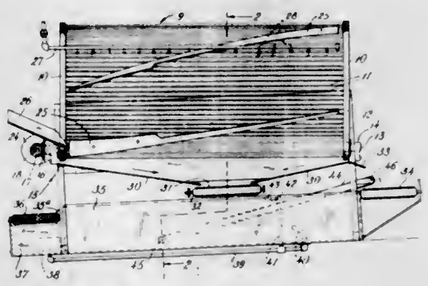
1. A hinge member for pintle-pin connection and for mounting particularly on a metal wall member, said hinge member comprising a lug apertured to receive a pintle pin, and said lug having a narrowed leg extending medially from one side thereof to form opposite seating shoulders at the juncture of the leg with said lug, said leg being offset at approximately right angles to its lug at a position spaced from the said one side of the lug a distance approximately equal to the thickness of the wall member on which the hinge member is to be mounted, said leg being adapted to be passed through an opening in the said wall member to seat against a rear face thereof and being adapted to be secured to the said wall member with the corresponding lug shoulders adapted to span said opening to seat against the opposite face of said wall member to stabilize the hinge member thereon.

2,608,715
HYDRAULIC SAUSAGE-STUFFING MACHINE
Filiberto Fernandez, Newark, N. J.
Application October 4, 1949, Serial No. 119,463
2 Claims. (Cl. 17—39)



1. In a sausage-stuffing machine, a casing having an open end and a closed end, discharge means on the closed end of the casing, a ram arm extending across and secured to the open end of the casing, a cylinder secured to said ram arm and extending axially with respect to the casing, said cylinder projecting outwardly with respect to the open end of the casing, a hydraulic ram including a jack cylinder mounted on and communicating with the outer end of said cylinder, a piston rod arranged in said cylinder and extending inwardly with respect to said ram arm, a pressure plate secured on the inward end of said piston rod and fitting the interior of said casing, manual means on said jack cylinder operable to produce pressure in said jack cylinder and in said cylinder for driving said piston rod and pressure plate toward the closed end of the casing, and pressure-releasing means on said jack cylinder for releasing pressure present in said jack cylinder and said cylinder to permit retraction of said piston rod and pressure plate in a direction toward said open end of the casing, said discharge means comprising a conduit having a wall formed with an opening, a push pin positioned through said opening for longitudinal movement in a direction toward and away from the said pressure plate, said push pin having a head normally closing said opening, and an operating lever pivoted on the casing and connected to said pin for moving said pin in a direction toward said pressure plate to relieve a vacuum present in the casing between the pressure plate and the closed end of the casing.

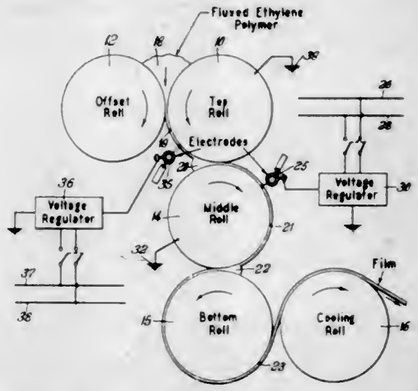
2,608,716
METHOD FOR RECOVERING OYSTERS
Sterling G. Harris, Beaufort, S. C., assignor to The Blue Channel Corporation, Port Royal, S. C., a corporation of Maryland
Application June 28, 1950, Serial No. 170,789
5 Claims. (Cl. 17—45)



1. A method of recovering meats from shell oysters, which comprises steaming the oysters at a temperature and for a time sufficient to cause the shells to open and the adhesion of the meats to the shells to be weakened, repeatedly raising the steamed oysters in bulk to a substantial height and allowing them to fall, while directing jets of water under high pressure upon the falling oysters, and removing the meats, as soon as they are released, from the mass of shells being raised and dropped.

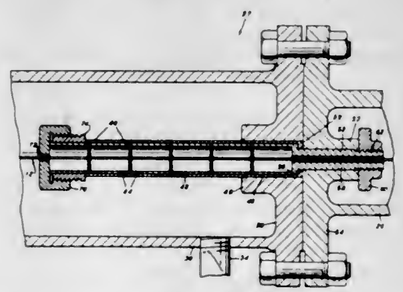
2,608,717
PROCESS FOR REDUCING WEAK SPOTS IN CALENDERED FILM
Jerry W. Kay, North Plainfield, N. J., assignor to Union Carbide and Carbon Corporation, a corporation of New York
Application November 20, 1950, Serial No. 196,592
7 Claims. (Cl. 18—2)

1. Process for reducing weak spots in calendered film, which comprises subjecting the film to high voltage electric potential to burn or disrupt particles of foreign material, and thereafter subjecting the film to a calendering step to disperse or dissipate the remains of such particles, and close the holes caused by the electrical discharge.



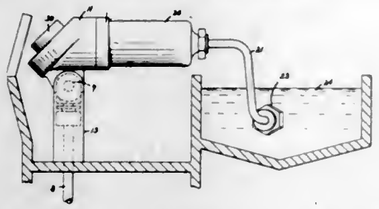
5. Apparatus for reducing weak spots in calendered film, which comprises means for subjecting the film to a calendering operation, and means for subjecting the film to high voltage electrical potential during its passage through said calendering means and before the last bank thereof, whereby particles of foreign material are burned or disrupted by electrical discharge, and the remains of such particles are dispersed or dissipated and the holes caused by the electrical discharge are closed by said subsequent roll.

2,608,718
APPARATUS FOR CONTINUOUSLY MAKING VULCANIZED ARTICLES
George E. Berggren, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 30, 1948, Serial No. 17,916
4 Claims. (Cl. 18—6)



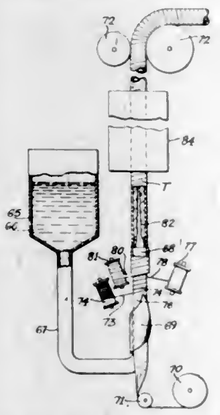
3. An apparatus for continuously making vulcanized articles, which comprises a vulcanizing chamber, a cooling and sealing chamber positioned in tandem with the vulcanizing chamber, a partition having a passage therethrough positioned between the chambers, a tube, means for securing the tube to the partition in alignment with the passage, a plurality of annular baffles positioned in the tube, a plurality of hollow spacers positioned in the tube for spacing the baffles, a bushing having a threaded end portion and secured to one end of the tube and projecting therefrom through the passage in the partition, a nut for engaging the threaded end of the bushing to secure the tube to the partition and a cap having a passage therethrough for locking the baffles and the spacers in the tube.

2,608,719
RUPTURE DISK ASSEMBLY
Harry Robert Spence, Jr., Nitro, W. Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application December 27, 1948, Serial No. 67,513
6 Claims. (Cl. 18—8)



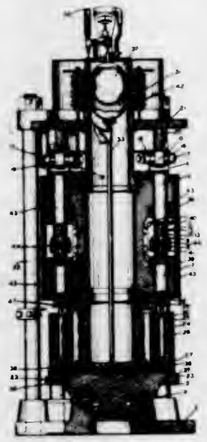
1. An extrusion machine for producing artificial films, filaments, and other articles from a liquid-to-plastic material comprising positive delivery means for the material, an orificed extrusion plate, duct means for carrying the material from the delivery means to the extrusion plate, an intermediate section of the duct means comprising a chamber having an inlet port and an outlet port spaced adjacent opposite ends of the chamber for connecting it in series with adjacent sections of the duct means, and a substantially rigid closure constituting a wall of said chamber and extending over the ports, said closure having sufficient strength to resist rupture up to but not above a predetermined pressure of the material and the extrusion plate having a strength sufficient to resist rupture exceeding said pressure, a protective cap secured in position over the closure and having a wall thereof spaced from the closure to provide a chamber therebetween, and an aperture in the cap providing free communication between the outside atmosphere and the last-mentioned chamber.

2,608,720
METHOD AND APPARATUS FOR SHAPING THERMOPLASTIC SHEET MATERIAL
William E. Meissner, East Orange, N. J.
Application November 5, 1949, Serial No. 125,708
10 Claims. (Cl. 18—19)



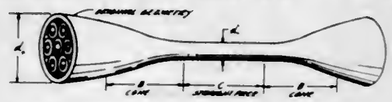
6. Apparatus for forming tubes from thermoplastic materials selected from the class consisting of thermoplastic cellulose derivatives and thermoplastic resins, comprising in combination a tubular forming member, means for shaping a pellicle of thermoplastic material into a tube about said forming member with edges of said pellicle in contact, means positioned adjacent said forming member for surrounding the tube thus formed with a non-thermoplastic supporting outer cover, means for forcing molten salt having a melting point above the softening point of said thermoplastic material through said tubular forming member and into the interior of said thermoplastic tube to form a core which cooperates with said outer cover to confine and soften the thermoplastic material until the edges of the pellicle are sealed together to form a seamless tube, cooling means positioned beyond said forming member, and means for continuously moving said thermoplastic material and salt from said forming member through said cooling means.

2,608,721
MOLDING MACHINE
Earl E. Heinzelman, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application February 28, 1949, Serial No. 78,801
7 Claims. (Cl. 18—20)



3. In a molding machine, a supporting base, a carrier mounted for rotation with respect to said base, a pair of cooperating mold elements mounted on the carrier for rotation therewith in a closed path, a fluid operating bellows connected to one of said elements; a source of fluid under pressure including a fluid reservoir and a gas-containing accumulator for applying pressure to the fluid in the reservoir, said fluid source being rotatable with said carrier, means communicating said fluid under pressure to said bellows to apply force to said bellows, said source, communicating means, and bellows constituting a sealed system in which said bellows is movable; a head portion rigidly secured to said base; a system of cams secured to said head portion; a plurality of cam followers rotatable on the end of the other cooperating mold element, one cam follower being engageable with a cam to hold the mold elements in closed position and the other cam follower being engageable with a cam to separate the mold elements; and means for imparting rotation to said carrier to cause said cam followers to move on said cams, one of said cams being so contoured as to hold the mold elements in closed position against the fluid pressure in the sealed system and the other of said cams being so contoured as to open and close the mold elements.

2,608,722
PROCESS FOR MAKING MICROSPACERS
Otmar M. Stuetzer, Dayton, Ohio
Application September 6, 1950, Serial No. 183,455
4 Claims. (Cl. 18—48)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



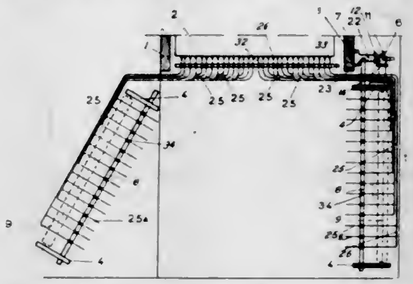
1. The process for making a microspacer having a plurality of small closely spaced longitudinal passageways arranged in a desired cross-sectional configuration, said process comprising the steps of (1) assembling a comparatively large spacer comprising a larger tube and a plurality of smaller tubes positioned within said larger tube and extending longitudinally thereof, said smaller tubes being so positioned within said larger tube that their passageways are arranged in the same cross-sectional configuration as that desired in said microspacer, (2) transforming said spacer assembly into a ductile state, (3) drawing said assembly to reduce the cross-sectional dimensions without changing the cross-sectional configuration, (4) removing a section of the drawn assembly, (5) transforming said removed section into a ductile state, (6) further drawing said section to reduce still further the cross-sectional dimensions, (7) repetition of steps (4), (5) and (6) until the removed section becomes too small and fragile to handle, (8) reinforcing said last mentioned removed section by placing a closely fitting tube of the same material as the original tubing thereover, (9) transforming said reinforced section into a ductile state, (10) drawing said reinforced section to reduce the cross-sectional dimensions, and (11) repetition of steps (7), (8), (9) and (10) until the desired lateral spacings of the passageways in the spacer are obtained.

2,608,723
PROCESS FOR THE PRODUCTION OF AMYLOSE FILMS
Ivan A. Wolff, Howard A. Davis, James E. Cluskey, and Laetta J. Gundrum, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application August 1, 1950, Serial No. 177,114
16 Claims. (Cl. 18—57)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process comprising dissolving corn amylose in water containing a water soluble amylose complexing agent taken from the class of lower alkanols, heating to obtain a clear solution, removing the complexing agent by distillation, leaving an aqueous corn amylose solution, forming said solution upon a surface at room temperature, and allowing it to gel and dry to a film.

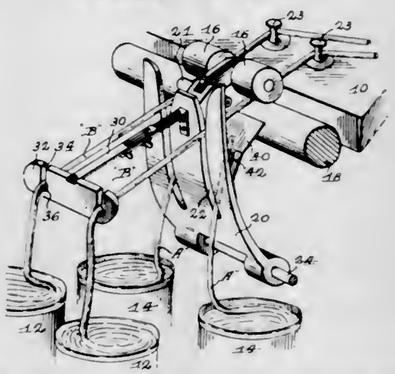
2,608,724
WINDING APPARATUS FOR THE WEB DIVIDER OF FINISHER CARDS
Laurent Bastin, Roubaix, France
Application February 25, 1950, Serial No. 146,266
In France March 2, 1949
11 Claims. (Cl. 19—153)

1. In a winding apparatus for a condenser system having rubbing aprons to provide ropings, in which roping-guides, traction rollers and jack-spools are located apart with respect to the front of the condenser, the combination of a rack located respectively on each side of said condenser, said rack being angularly arranged with respect to the front of the condenser, traction rollers and



jack spools for winding the bobbins mounted on said rack, driving means to actuate said traction rollers, and means to pneumatically convey and guide ropings in an unstressed state from the exit of said rubbing aprons to each of said traction rollers respectively.

2,608,725
SLIVER PIECING DEVICE
Kenneth Gerald Strew, Sherbrooke, Quebec, Canada, assignor to Dominion Textile Company Limited, Montreal, Quebec, Canada, a corporation of Canada
Application October 6, 1950, Serial No. 188,665
8 Claims. (Cl. 19—157)



8. A method of piecing up sliver characterized by the steps of, placing a free leading end of sliver from a reserve supply in a first position for access of the tail end of a sliver feeding from a depleted supply, loosely retaining said reserve sliver end beneath and in alignment with the normal travel of said feeding sliver end, and causing said feeding sliver tail end on depletion or breakage to gravitate into overlapping wiping contact with said loosely retained reserve sliver leading end so that the feeding tail end adheres to the reserve lead end, and said reserve lead end is released from said retention and is drawn into the machine.

2,608,726
COLLAPSIBLE TOY BUILDING
Florence A. Olson, Janesville, Wis.
Application October 24, 1949, Serial No. 123,139
1 Claim. (Cl. 20—2)

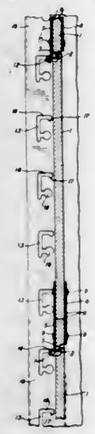
A collapsible toy building formed from foldable and distortable sheet material and com-

prising in combination, a hollow base portion including a front wall, a rear wall, a pair of side walls connected at front and rear edges thereof to the respective front and rear walls, a top wall rigidly affixed to the upper edge of the front wall and to upper edge portions of the side walls and having its rear edge spaced forwardly from said rear wall whereby to provide an opening in the top of said base portion, a pair of inwardly foldable side wall extensions provided at the upper edges of the respective side walls, and a hollow superstructure including a swingable rear panel hinged to the upper edge of the rear wall, and a pair of forwardly extended side panels connected to opposite side



edges of the rear panel, said side panels being wider than the space between the top and the rear walls, lower edge portions of said side panels resting on said top wall whereby to sustain said superstructure in an erect position wherein said side wall extensions are disposed at the outer surfaces of and against said side panels, said rear panel being swingable rearwardly and said side panels being adapted to be spread apart whereby the side wall extensions may be folded inwardly and received within the side panels on said top wall to permit the superstructure to be swung forwardly on the folded side wall extensions and accommodate the base portion therein.

2,608,727
DOOR
Eustace T. Ball, Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 14, 1947, Serial No. 786,103
7 Claims. (Cl. 20—16)



1. In combination with a support frame having a plurality of apertures therein, a cover for said frame comprising a plurality of doors having their edges rabbeted so that adjacent doors are interlocking, and means for pivotally mounting each of said doors so that each door may be individually opened comprising a hinge connected to one edge of each of said doors and engageable in two of said apertures, said hinge being movable horizontally and then vertically in said apertures to unlock the door from its adjacent door so that said door may be pivoted about its hinge to an open position.

2,608,728
PACKING AND METHOD OF APPLICATION
William E. Montgomery, Wilmington, Del., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application January 5, 1949, Serial No. 69,283
4 Claims. (Cl. 20—69)



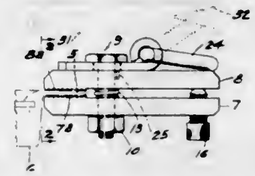
1. The method of applying a packing to the joint between two relatively movable members such as a door and its jamb, which consists in securing a positioning member to a resilient packing, applying adhesive to the positioning member, temporarily securing the positioning member to one of the relatively movable members, placing the movable members in final position relative to each other with the positioning member projecting from the joint, pulling on the positioning member to move the packing into tight engagement with the relatively movable member, separating the relatively movable members and permanently securing the packing to the member on which it was temporarily secured.

2,608,729
NECKTIE CLASP
William H. Meeker, Rochester, N. Y., assignor to Hickok Manufacturing Co. Inc., Rochester, N. Y., a corporation of New York
Application November 8, 1951, Serial No. 255,349
2 Claims. (Cl. 24—49)



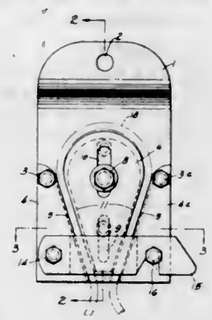
1. A clasp for necktles comprising an elongated bar having one end thereof bent backwardly upon itself to provide a supporting arm, a pair of levers pivotally carried by said supporting arm, one of said levers being shorter than the other lever and having clamping engagement with one portion of a shirt front and necktie, the second longer lever being clampingly engageable with another portion of the shirt front and necktie, said first and second levers being of channel shape with the first lever nested within the second lever, a first spring having a first leg engaged within the channel of said first lever and a second leg engaging said supporting arm for resiliently urging said first lever to its clamping position, and a second spring straddling said first lever and having a first pair of legs engaged within the channel of said second lever on opposite sides of said first lever, and said second spring having a second pair of legs engaging said supporting arm for resiliently urging said second lever to its clamping position.

2,608,730
CLAMP HAVING A SWIVELED TRACTION CONNECTION
William Killius, Altadena, Calif.
Application August 21, 1948, Serial No. 45,546
1 Claim. (Cl. 24—73)



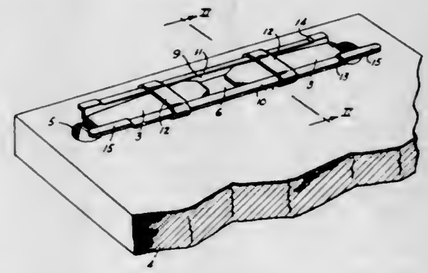
In a device for engaging the end of a rectilinearly extensible straightening tool, a pair of complementary plates having opposed plane gripping surfaces at one end and having aligned bores inwardly of said gripping surfaces adjacent said end, a clamping bolt extended through the aligned bores and loosely disposed in the bore of at least one of said plates, a spring sleeved about said bolt to yieldingly urge the plates apart, a third plate seated flat against the outer face of one of said complementary plates and having an opening through which said bolt passes to effect swivel connection of the third plate on the bolt, a ring attached to one end of the swivel plate and disposed to swing pivotally thereon in a plane perpendicular to the plane of said plate, one of said complementary plates having a threaded bore adjacent the end opposite the bolt, a screw engaging said threaded bore and manually operative to cause its inner end to contact the opposite complementary plate for tilting the latter plate about the bolt, and teeth inwardly directed toward said aligned bores formed on said opposed gripping surfaces of the complementary plates.

2,608,731
CABLE CLAMP
Theodore Summers, Hemlo, Ontario, Canada, assignor to The Ontario Paper Company Limited, Thorold, Ontario, Canada
Application October 5, 1949, Serial No. 119,580
1 Claim. (Cl. 24—126)



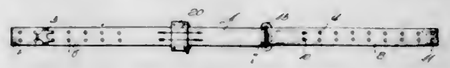
A cable clamp comprising a substantially rectangular shaped back plate, an ovate shaped plate having its head end slidably mounted upon the central portion of one face of the back plate and having a groove within its edge for the reception of a cable bight, a pair of triangular clamping plates positioned upon the corner portions of the face of the back plate adjacent to the tail portion of the ovate plate and having grooved edges lying substantially parallel to the adjacent grooved edges of the tail portion of the ovate plate, said triangular plates being pivotly secured to the back plate, the pivotal points of the triangular plates being in alignment with the plane passing through the maximum width of the head portion of the ovate plate, a stud element upon the outer face of the lower portion of one of the triangular plates, and a latch member pivoted to the lower portion of the outer face of the other triangular plate and engageable with the stud member.

2,608,732
PIN FILE-FASTENER
Samuel Segal, New York, N. Y., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Original application September 18, 1944, Serial No. 554,568, now Patent No. 2,498,901, dated February 28, 1950. Divided and this application February 11, 1949, Serial No. 75,790
1 Claim. (Cl. 24—153)



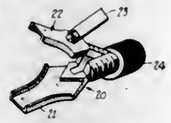
In a fastener, a base member having a pair of sheet retaining prongs projecting therefrom, a compressor plate comprising a channel member having longitudinally extending flanges along each side of said channel member, one of said flanges being of less length than the length of said base member between said prongs to permit insertion of said compressor plate between said prongs by lateral movement, projections laterally aligned with said other flange and extending outwardly to engage said prongs when said compressor plate is moved laterally against said prongs.

2,608,733
GUN SLING
Alfred B. Wilber, Caldwell, Idaho
Application May 9, 1950, Serial No. 160,962
2 Claims. (Cl. 24—170)



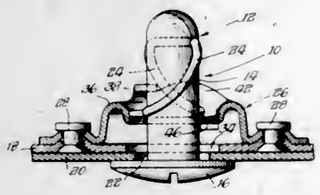
1. A keeper for double strap rifle slings comprising a slide formed with a central opening shaped for slidably receiving and guiding said double straps therethrough and extending from one end to the opposite end of said slide, said slide further having a slot formed in one of said ends thereof and extending across the medial portion of said end, and an arm pivotally mounted at one end in an end portion of said slot and formed with the opposite end portion thereof capable of being slidably inserted in the opposite end of said slot, and said arm further having a wedge shaped medial portion for insertion in an end of said central opening and between said straps.

2,608,734
SLIDER FOR SLIDE FASTENERS
Joseph Beckerman, Kew Gardens, N. Y.
Application February 27, 1950, Serial No. 146,535
2 Claims. (Cl. 24—205.15)



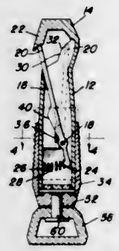
1. A slider for slide fasteners, comprising a pair of top and bottom wall members, rearward extension pieces on said wall members, the bottom wall member extension having a transverse bearing slot in its free end, and having a longitudinally disposed radial slot receptive of substantially the whole body of the bottom member extension, a pair of trunnions carried by the extension piece of the top wall member and rotatably receivable in said bearing slot to constitute a pivotal connection between said extension pieces, and a locking sleeve longitudinally movably embracing said extension pieces, said extension pieces being provided with aligned external screw threads and said locking sleeve being provided with internal screw threads engageable therewith, a rotation of said locking sleeve in one direction on said screw-threaded extension pieces causing the locking sleeve to move forwardly of said pivotal connection to restrain the extension pieces against relative pivotal movement, and rotation of said locking member in the opposite direction causing said locking sleeve to move rearwardly of said pivotal connection and into unlocking position to enable said extension pieces to engage in relative pivotal movement.

2,608,735
QUICK FASTENING DEVICE
Ouglјesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application February 7, 1945, Serial No. 576,592
20 Claims. (Cl. 24—221)



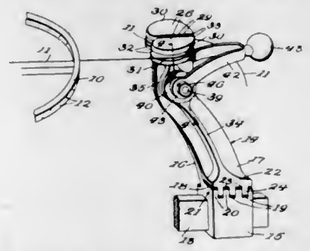
1. A quickly attachable and detachable fastener adapted to be inserted through an apertured work structure of a given thickness for clamping the opposed work surfaces thereof and including a rotary stud member having a shank portion, a lateral work engaging abutment spaced from one end of said shank portion for clampingly engaging one of the work surfaces, an elongated latching arm of firm resilient material for clampingly engaging an opposed work surface and having one extremity thereof secured to said shank portion with the opposite extremity thereof being free and extending toward said abutment, the said free extremity terminating externally of the periphery of said shank portion a distance from said abutment less than the predetermined given thickness of the work structure in the vicinity of the aperture therethrough when in normal unclamped position, said latching arm being extended longitudinally of the shank and without the encirclement thereof adapting the stud for substantially axial projection through the work aperture, and whereby upon stud rotation the said free extremity of the latching arm is stressed to yieldingly coact with said lateral abutment in clamping the work surfaces therebetween, said latching arm when in clamping position having a curvature defined by its resiliency in reaction to forces at the opposite ends thereof.

2,608,736
SNAP HOOK
Edmond T. Blazewicz, Chicago, Ill.
Application April 20, 1951, Serial No. 222,077
7 Claims. (Cl. 24—233)



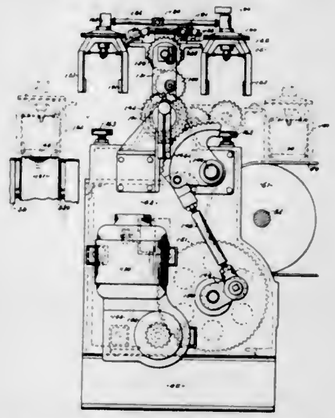
1. A snap hook comprising an elongated hollow body member having a hook formed at one end thereof, an elongated tongue having its inner end received in the body member and its outer end normally engaging and closing the hook, means adjacent the inner end of the tongue swingably securing the tongue to the body member, said tongue being swingable to disengage and open the hook, means yieldingly urging engagement of the tongue and the hook, means for opening the hook comprising a sleeve slidably mounted on the body member, said sleeve having a pin extending transversely therethrough, said body member having a longitudinal slot slidably receiving the pin, said tongue having a cam surface that is engaged by the pin to disengage the tongue and the hook upon movement of the sleeve in one direction, and means yieldingly urging movement of the sleeve in the opposite direction.

2,608,737
CLAMP FOR STRINGING RACKETS
Edmundo H. Serrano, St. Louis, Mo.
Application November 17, 1949, Serial No. 127,804
2 Claims. (Cl. 24—250)



1. In a string holding means for a racket stringing apparatus, string tensioning means including a string holding arm supported for tensioning and releasing movements, said arm including a rigid section and a pivoted section movable toward and away from the rigid section, enlarged outwardly projecting semi-ovate jaw heads on the upper ends of the sections having horizontally grooved outer peripheries and flat substantially parallel inner faces, the inner corners of the heads being convexly rounded and the outer corners in alignment for winding a string thereon and between said faces, a shaft extending through the sections for rotation, said sections having outer cam surfaces, cam plates mounted on the shaft against the cam surfaces to turn with the shaft, a forked lever having bearing ends fixedly mounted on the shaft against the cam plates to turn the shaft and cam plates to force the latter inwardly against the cam surfaces for contracting the sections and jaw heads in gripping relation to a string and to release the same, and means to separate the sections and jaws.

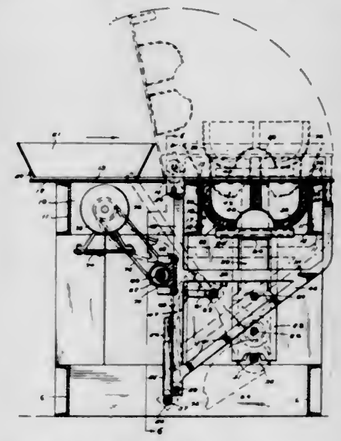
2,608,738
MACHINE FOR FINISHING ARTICLES OF POTTERY WARE
Eugene G. Arelt, Syracuse, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application January 20, 1950, Serial No. 139,755
8 Claims. (Cl. 25—22)



1. A machine for finishing articles of pottery ware comprising a frame, an in-feed conveyor operable to advance successively rows of unfired ware, an out-feed conveyor, a plurality of spindles arranged intermediate said conveyors and journalled for vertical rotation in the frame, ware transfer mechanism operable to transfer the pieces of ware in a row from said in-feed conveyor to said spindles and to subsequently transfer the pieces of ware from said spindles to said out-feed conveyor, means operable to effect rotation of said spindles with the pieces of ware thereon for a predetermined period, a fettling tool movable into engagement with the rim of each piece of ware positioned on said spindles during rotation thereof, actuating means cooperable during the fettling operation to advance said out-feed conveyor intermittently to move the pieces of ware thereon to and past a cobbing station, and means arranged at said station and operable to deposit a quantity of granulated material on each piece of ware.

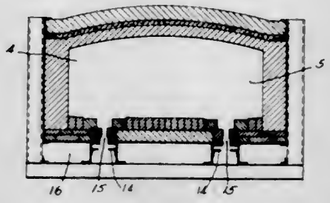
2,608,739
MACHINE FOR MOLDING DRAIN TILE
John H. Minton, Opa-Locka, Fla.
Application September 6, 1951, Serial No. 245,307
9 Claims. (Cl. 25—41)

1. A machine for molding hollow blocks that embodies a base, a mold box formed in the base that is open at top and bottom, a pallet that is supported in the mold box, means to shift the pallet in a vertical plane to be disposed above the machine, a core device supported within the mold box in spaced cooperative relation to the pallet,



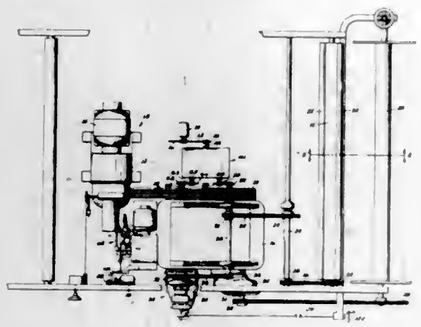
means for shifting the core device in a vertical plane, the core device being hinged to swing away from the mold box after being shifted vertically, vibrator means for vibrating the article to be molded and a hopper movable into and out of registry with the mold box.

2,608,740
CONTINUOUS FURNACE
Elmer W. Dany, Brecksville, Ohio, assignor to Ferro Corporation, a corporation of Ohio
Application July 26, 1950, Serial No. 175,912
3 Claims. (Cl. 25—142)



1. The combination with a U-type furnace of a continuous conveyor for carrying ware through said furnace comprising a guide rail located at the bottom and substantially to one side of the center of said furnace, an endless horizontal chain supported by said guide rail, means for imparting horizontal motion to said chain and the free ends of such supporting members terminating in a downwardly extending idler wheel, a track disposed beneath said idler wheel and an upwardly extending ware carrying member mounted substantially in the center of each of said supporting means, said furnace having a solid continuous roof and the bottom provided with a continuous U-shaped opening for receiving said ware conveying means, and means for preventing ingress of cold air through said continuous opening, said last named means comprising overlapping plates engaged by said ware carrying members and slidable along tracks, said plates being solely supported by said tracks while in the furnace and by said ware carrying members when outside of the furnace.

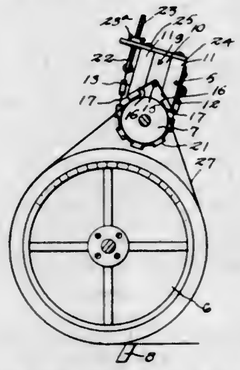
2,608,741
CONSTANT TENSION CONTROL
Walter Reeves, Wakefield, Mass., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application June 16, 1950, Serial No. 168,626
16 Claims. (Cl. 28—36)



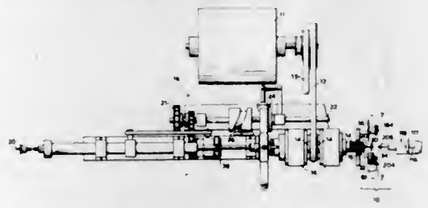
1. A constant tension control mechanism comprising a rotor, a delivery roll to control the lineal velocity of material passing between said rotor and said delivery roll, means for driving said delivery roll at predetermined speed, and means for driving said rotor at variable speeds comprising a power source, a speed-varying transmission comprising a first shaft, a second shaft, means providing a driving connection between said shafts, and an element shiftable oppositely to vary oppositely the transmission ratio between said shafts, means connecting said power source to drive said transmission first shaft, said last-named means including a slipping clutch, means connecting said transmission second shaft to drive said rotor, a differential mechanism including a first sun gear, a second sun gear, a planetary gear meshing with said sun gears, and a carriage supporting said planetary gear, means connecting said transmission first shaft to drive said first sun gear, means driving said second sun gear at a velocity constantly proportional to the speed of said delivery roll, a transmitter unit of a self-synchronous system having an armature drivingly connected to said carriage, a receiver unit of a self-synchronous system having an armature operatively connected to shift said transmission shiftable element, and electric connections between said units enforcing rotation of said receiver armature in response to rotation of said transmitter armature.

2,608,742
WARP CLAMP
Burlan D. White, Ellenboro, N. C.
Application October 26, 1951, Serial No. 253,281
4 Claims. (Cl. 28—42)

4. The combination with a whip roller, of a warp clamp comprising an elongated body member having a grooved inner face extending from end-to-end thereof, cushioning strips secured to said grooved inner face and extending longitudinally thereof for engaging circumferentially spaced portions of the whip roller, and flexible attaching means having intermediate portions detachably engaging around longitudinally spaced portions of the whip roller and end portions connected to the body member, one end portion of each of said flexible attaching means being detachably and adjustably connected to the body member and being adjustable for drawing the body member towards the whip roller for clamping warp between the whip roller and said cushioning strips.



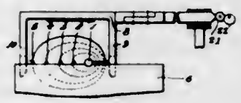
2,608,743
MACHINE FOR MAKING ELECTRODE ASSEMBLIES
Price L. Reed, Royersford, Pa., assignor to Superior Tube Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 10, 1949, Serial No. 75,577
7 Claims. (Cl. 29—25.2)



3. Apparatus for mounting an element on a tubular member comprising means supporting said tubular member, means for positioning said element, means feeding said member through an aperture in said positioned element, bead forming means, means inserting said bead forming means into said member and bringing the forming means to bear on the inside of the wall of said member on opposite sides of said element, guiding means supporting said member against the action of the forming means, the beads formed in the wall of said member by the forming means bearing against each side of said element mounting it on said tubular member, and means for cutting off a length of said member after said element is mounted thereon.

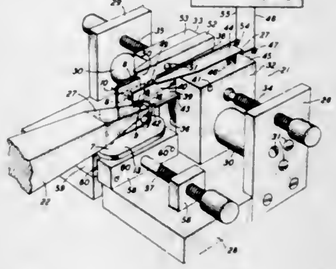
2,608,744
METHOD AND DEVICE FOR POSITIONING ELECTRODES AND OTHER TUBULAR ELEMENTS
Gerrit Starre and Jan Hendrik van den Berge, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 6, 1947, Serial No. 790,100
In the Netherlands October 19, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires October 19, 1966
8 Claims. (Cl. 29—25.13)

1. A device for arranging in predetermined relative positions a plurality of electrodes surrounding each other at least in part, said electrodes comprising projecting supporting members, which comprises a mounting means, two supporting edges on said mounting means having horizontal faces for receiving the projecting ends of said electrode supporting members so as to be slidable on said faces, pusher means, com-



prising a forked arm having two parts adapted to move independently of one another, said parts being capable of engaging the outermost of said electrodes, and cam means for imparting a reciprocating movement to the fork arm to thereby reciprocate the electrodes transversely to the direction of their length in a horizontal plane with decreasing amplitudes, whereby said electrodes successively reach the desired positions.

2,608,745
SOLDERING APPARATUS FOR PIEZO-ELECTRIC CRYSTALS
Joseph F. Barry, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 30, 1948, Serial No. 36,[illegible]8
6 Claims. (Cl. 29—25.35)



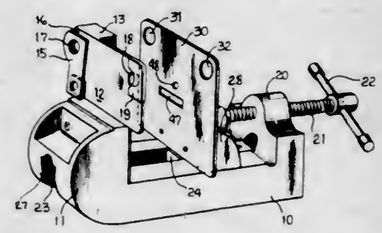
1. Apparatus for accurately securing a piezoelectric crystal element equipped with electrode wires to spaced wires on a support comprising a holding device to hold the piezoelectric crystal element and said support, a laterally movable pair of jaw members for and operable to engage each electrode wire on the piezoelectric crystal element, a movable supporting means for each pair of jaw members, adjustment and measurement means individual to each of said movable supporting means for moving each pair of jaw members lengthwise of the electrode wires of the piezoelectric crystal element, an electrical testing apparatus operable to electrically energize and test the piezoelectric crystal element and electrically connected to the electrode wires of the piezoelectric crystal element through said jaw members and a soldering means for soldering the electrode wires of the piezoelectric crystal to the wires of the support at the points of engagement of said jaw members with the electrode wires of the piezoelectric crystal element.

2,608,746
BAR FEED VIBRATION DAMPENER
Bernard C. Harney, Syracuse, N. Y., assignor to Lipe-Rollway Corporation, Syracuse, N. Y., a corporation of New York
Application May 7, 1947, Serial No. 746,463
3 Claims. (Cl. 29—59)



1. In a stock bar vibration snubber for the feed tubes of metal working machines, said snubber comprising a body for mounting on the feed tube, a guide member pivoted to the body on a transverse axis relatively to the axis of the tube and located out of the body, the guide member having a passage, the walls of which slidably engage the stock bar at spaced points during the feeding thereof, and spring means for normally holding the guide member from pivotal shifting movement.

2,608,747
SAW VISE
William Gamboney, Chicago, Ill.
Application July 14, 1948, Serial No. 38,735
2 Claims. (Cl. 29—67)

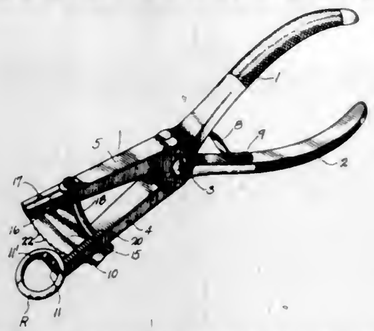


1. A device of the class described comprising a mounting base, a relatively flat plate fixed to the base and extending upwardly therefrom, a second plate arranged in confronting relation with respect to the first-named plate, means for supporting said second plate in said confronting relation and for slidable movement upon said mounting base, said first-named plate being provided in opposite corresponding corners thereof with work receiving openings, means carried by said plate adjacent one of said openings for securing a work piece in said opening, a saw guide provided by said first-named plate transversely of one of said openings, a wall provided by said first-named plate and providing an obstruction in alignment with the other opening of said first-named plate, said complementary plate having formed in its opposite corresponding corner portions openings arranged in alignment with the openings of said first-named plate.

2,608,748
RING SIZING TOOL
Ersel F. Kirkwood, Salem, Oreg.
Application May 15, 1948, Serial No. 27,251
2 Claims. (Cl. 29—75)

1. A ring sizing tool of the character described comprising a pair of crossed and pivotally joined handle levers, terminating in opposedly related upper and lower jaws that are movable toward and from each other with the closing and opening action of the handle levers, an abutment extended upwardly from the inner face of the

lower jaw at the end thereof, against which that part of a ring through which a cut is to be made may be engaged to hold it for the cutting operation, and there being a longitudinal slot in the lower jaw, passing through the abutment, a flat saw blade pivotally fixed to the upper jaw and reciprocally contained in the slot at the inside of the abutment and having a longitudinal, toothed edge that, with the closing movement of the jaws will engage with that part of the ring disposed against the lower jaw and abutment to progressively cut therethrough toward the abutment.

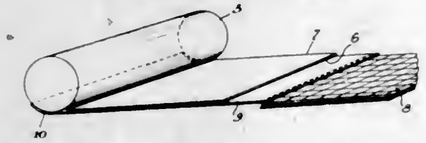


2,608,749

IRONER ROLL AND PAD WITH HEAT-REFLECTING SHEET APPLIED THERETO

Samuel A. Obitz, Pittsburgh, Pa., assignor to Pittsburgh Waterproof Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 20, 1948, Serial No. 16,018
3 Claims. (Cl. 29—128)



1. The combination with an ironer roll, of a lead cloth secured at one end to the roll, a composite sheet of heat-reflecting imperforate metallic foil adherently connected to a non-metallic fibrous backing sheet and interposed between the lead cloth and the roll and completely encircling the roll, with the fibrous backing sheet in direct engagement with the roll, the lead cloth being wrapped around the roll and serving to hold the sheet in wrapped position thereon, and a fibrous pad of a material that absorbs water vapor wrapped around the other wrappings.

2,608,750

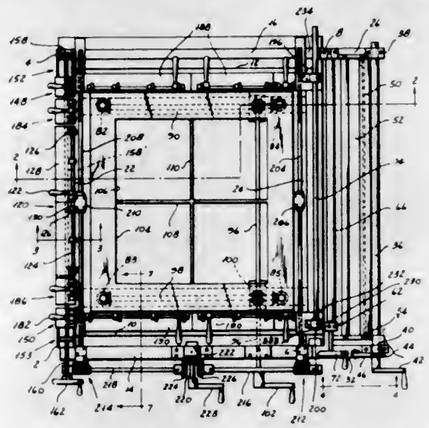
APPARATUS FOR AND METHOD OF MAKING PRINTING SCREENS

Albert C. Cluzel, Ridgewood, N. J.

Application August 25, 1949, Serial No. 112,331
10 Claims. (Cl. 29—148)

1. Apparatus for stretching a web of flexible, somewhat extensible, material preliminary to its attachment across the face of an article, comprising means for holding said article to be covered, means for positioning a web of such material, of sufficient length and width to cover the face of the article, substantially in a plane parallel to and spaced from the said face of the article, said last named means comprising means for gripping the opposite corners of one end of the web, means to move such corner gripping means apart to subject such end of the web to tension in a direction transverse to the length of the web, means for gripping the central portion of such end of the web, means for applying a tension to the web longitudinally thereof over substantially its entire width, means to grip the side edges of the web throughout the length of the article, and means to advance the article holding means and the stretched web relatively toward each other to contact the surface of the web with the surface of the article to be covered and to subject the web additionally to tension.

9. The method of attaching a web of strong, flexible, somewhat extensible material across an open face of a frame which comprises the following steps: positioning the frame to be covered in a predetermined position, positioning a web of such material so that at least a portion thereof of a length exceeding the length of the frame at its forward end lies substantially in a plane parallel to and spaced from the juxtaposed surfaces of the frame, thoroughly moistening the web so as to condition it for stretching, the web being of a width exceeding the width of the frame, applying a predetermined tension substantially from corner to corner to one end of the web in a direction transverse to the length thereof, gripping the central portion of the thus tensioned forward end of the web over substantially its entire length, applying a predetermined tension to the web longitudinally thereof over substantially its entire width, gripping the side edges of the web over substantially the full length of the portion thereof lying over the frame, pulling the gripped side edges of said portion away from each other to subject such portion to transverse tension, moving the frame in a direction normal to the stretched web to bring the surfaces of the frame into contact with the adjacent side of the stretched portion of the web, and fastening the web to the surfaces of the frame with which it is in contact.



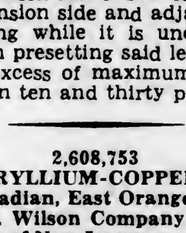
2,608,751

METHOD OF ASSEMBLING RESILIENT BEARINGS

Philip Charles Hutton, London, England, assignor to Silentbloc Limited, London, England, a company of Great Britain

Application April 9, 1947, Serial No. 740,337
In Great Britain April 15, 1946
2 Claims. (Cl. 29—149.5)

1. A method of assembling a resilient bearing of the type described comprising a rubber bushing compressed radially between inner and outer generally cylindrical tubular bearing members in which the rubber bushing as formed has a body section and a flange section partially separated from the body section by a circumferential groove adjacent an end thereof affording a reduced area connecting said body and flange sections, said method comprising axially forcing and compressing the body section into the outer bearing member with the flange section at the rear to compress and stretch the peripheral portion thereof bounded by said groove until said bushing engages therein for the full length of said body section and said flange section contacts the adjacent end of said outer bearing member, and forcing the inner bearing member in the same axial direction into said bushing to expand and elongate said body section only and eliminate said groove, thereby causing said bushing to grip said outer and inner bearing members securely and prevent slippage of said bushing with respect to said tubular bearing members without stressing thereof in the area connecting said flange section and body section.

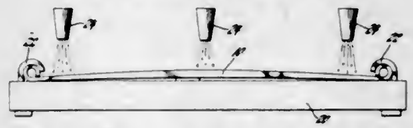


2,608,752

METHOD OF MAKING SINGLE LEAF SPRINGS

Robert Schilling, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application November 13, 1947, Serial No. 785,763
6 Claims. (Cl. 29—173)



1. The method of making a single leaf spring characterized by high load carrying capacity and endurance which comprises providing a hardened and tempered steel leaf spring of substantially uniform width and of variable thickness ranging from a maximum at a point substantially midway between the ends to a minimum adjacent each end, flexing said leaf spring to produce a tensile stress on the order of 60% to 100% of its yield point on the tension side of said leaf spring; shot-peening the tension side and adjacent corners of said leaf spring while it is under said tensile stress and then presetting said leaf spring by deflecting it in excess of maximum service deflection by between ten and thirty per cent.

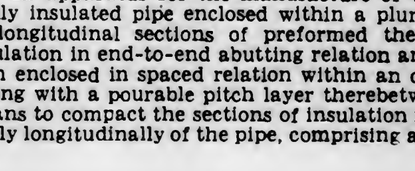
2,608,753

CLAD BERYLLIUM-COPPER ALLOYS

Victor G. Mooradian, East Orange, N. J., assignor to The H. A. Wilson Company, Newark, N. J., a corporation of New Jersey

Application May 24, 1947, Serial No. 750,359
21 Claims. (Cl. 29—199)

1. The method of manufacturing clad beryllium-copper which comprises applying to a substantially oxide-free surface of a bar of beryllium-copper a coating of a metal (*a*) having a melting point above 1350° F., (*b*) through which beryllium does not readily diffuse, (*c*) the eutectic of which with beryllium has a melting point above 1350° F., and (*d*) the oxide of which is easily fluxed, sandwiching a solder having a flow point between 1100° F. and 1450° F. between said coating and a layer of cladding metal, and substantially uniformly heating the sandwich at a temperature above the flow point of the solder, but below 1475° F., and under substantial pressure for a sufficient period of time to affect complete conversion of the solder by diffusion with the adjacent metals to an alloy having a melting temperature substantially above the initial flow point of the solder and above about 1350° F., the duration of the heating being such that there is no substantial area where diffusion has modified the composition of the coating metal throughout its entire thickness.



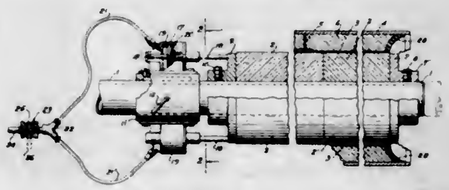
15. Solution-annealable composite metal stock comprising a base of beryllium-copper, a layer of an interliner metal having one face bonded to the beryllium-copper base, said interliner metal being one (*a*) having a melting point above 1350° F., (*b*) through which beryllium does not readily diffuse, (*c*) the eutectic of which with beryllium has a melting point above 1350° F., and (*d*) the oxide of which is easily fluxed, and a layer of cladding metal secured to the opposite face of the layer of interliner metal, the interfacial portions only of the interliner metal and the cladding metal having interdiffused therein the metal components of a silver solder having a flow point between 1100° F. and 1450° F. and forming therewith interfacial alloys having a melting point above the solution-anneal temperature of the beryllium-copper, whereby a portion of the interliner metal unmodified by diffusion separates the cladding metal from the beryllium-copper base.

2,608,754

APPARATUS FOR MAKING THERMAL INSULATED PIPE

Alexander H. Isenberg, Woodside, Calif.

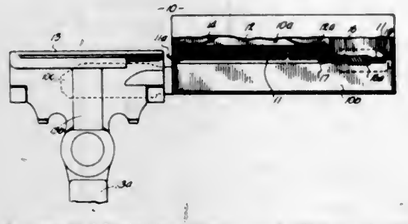
Application August 9, 1946, Serial No. 689,539
3 Claims. (Cl. 29—238)



1. In apparatus for the manufacture of thermally insulated pipe enclosed within a plurality of longitudinal sections of preformed thermal insulation in end-to-end abutting relation and in turn enclosed in spaced relation within an outer casing with a pourable pitch layer therebetween, means to compact the sections of insulation relatively longitudinally of the pipe, comprising a disc

plate releasably mounted on the pipe at each of the opposite terminal ends of the plurality of insulation sections, said disc plates each having a releasable clamp whereby the plates may be selectively fixed and released relative to the pipe, a carrier mounted around substantially the entire circumference of the pipe, adjacently beyond one of the disc plates, a plurality of fluid operated cylinders and plungers mounted on said carrier, the plungers being disposed longitudinally of the pipe and relatively spaced circumferentially of the carrier, the free end of said plungers being adapted for contacting said one adjacent disc plate, means for releasably locking the carrier to the pipe, fluid pressure valve control means common to all of said plungers for operating the plungers into pressure contact with said disc plate at said adjacent end of the insulation sections to force the insulation sections into longitudinal relative end-to-end contact, said valve means being provided with a bleeder port from the cylinders whereby residual pressure in the cylinders may be exhausted to release the pressure of said plungers against said adjacent disc plate.

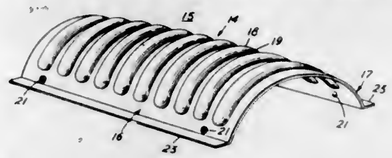
2,608,755
BLADE INJECTOR AND BLADE DISPOSAL DEVICE FOR INJECTOR TYPE RAZORS
Joseph C. Fennelly, Kansas City, Mo., assignor, by mesne assignments, of one-half to H. Struve Hensel, New York, N. Y.
Application December 7, 1946, Serial No. 714,722
8 Claims. (Cl. 30—40)



1. A razor blade injector and disposal device adapted for use with a holder to eject and inject blades, comprising a body portion divided by a partition into a new blade magazine and a used blade disposal compartment, a slide positioned adjacent the partition and movable longitudinally thereof, said slide adapted to engage with and transfer a blade from the holder into the disposal compartment at one stroke, and engage with and transfer a blade into the holder from the magazine upon reversal of the stroke, said partition or divider between the magazine and disposal compartment having a flexible upturned end adapted to be raised to pass over the blade transferred from the holder to the disposal compartment and depressed beneath the blade passing from the magazine to the holder.

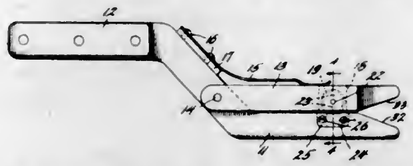
2,608,756
COMB GUARD FOR ELECTRIC SHAVERS
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application August 1, 1949, Serial No. 107,937
7 Claims. (Cl. 30—90)

1. In combination, an electric razor having an arcuate shaped comb, a comb guard for said comb comprising an arcuate shaped central portion and spaced opposed edge portions formed from a single piece of resilient material, said guard being additionally distorted in shape to strengthen the same, said central portion of said guard being shaped to overlie said comb, means formed on said edge portions of said guard and cooperating means formed on said comb to secure said guard in a shielding position directly to said comb and overlying said comb whereby said guard may shield said comb whether or not said comb is attached to said razor, extension means



on said edge portion of the guard defining a finger catch for aiding in removing said guard from said comb, said central portion of said guard being of such resilient character that when said guard is positioned in shielding relationship with said comb said opposed edge portions are stressed positively to interlock said respective means on said comb and edge portions.

2,608,757
PAPER-CUTTING KNIFE
Jay W. Joseph, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 10, 1948, Serial No. 59,233
5 Claims. (Cl. 30—292)



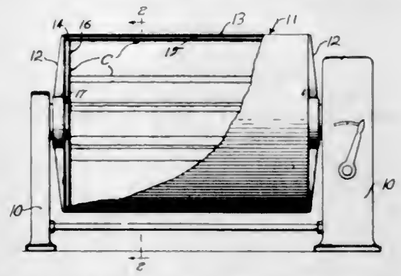
4. In a hand tool for slitting sheet material, a handle having a first jaw formed integral therewith, a second jaw pivotally secured to the first jaw, a circular cutting member rotatably secured to the second jaw, knurled cylindrical rollers attached to each side of the cutting member, and a leaf spring secured to the handle and engaging the second jaw, said leaf spring acting to force the jaws together so that sheet material positioned between the jaws engages the knurled surfaces of the rollers and movement of the sheet material is imparted to the rollers to rotate the cutting member to sever the sheet.

2,608,758
CLOTH NOTCHING DEVICE
Eugene G. Weksel, Brooklyn, N. Y.
Application April 23, 1949, Serial No. 89,269
2 Claims. (Cl. 30—353)



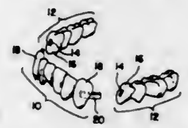
1. A cutting element for a device for notching the edges of stacked pieces of sheet material comprising a laterally extending shank adapted for the attachment of the cutting element at one side end thereof to an actuating member and having front and bottom edges, angularly related cutting parts joined together in V-defining relation and connected to the front edge of the laterally extending shank, said cutting parts diverging rearwardly from the front edge of the shank and depending below the bottom edge of the shank, said cutting parts having cutting edges on their lower depending ends to cut off portions from the edges of the stacked pieces of the sheet material, said shank having a cutting portion on its bottom edge and within the confines of the cutting edges of the angularly related cutting parts and elevated therefrom whereby to sever the cut-off portions of the sheet material, said angularly related cutting parts respectively defining open passages at the opposite sides of the shank whereby the severed cut-off portions of the sheet material are directed upwardly and outwardly of said passages as the cutting element is used.

2,608,759
DEVICE FOR HANDLING BUTTER AND LIKE MATERIALS
Alfred H. Rishoi, Wilmette, and Charles F. Weinreich, Des Plaines, Ill., and Loomis Burrell, Little Falls, N. Y., assignors to Cherry-Burrell Corporation, Wilmington, Del., a corporation
Application May 13, 1943, Serial No. 486,816
5 Claims. (Cl. 31—33)



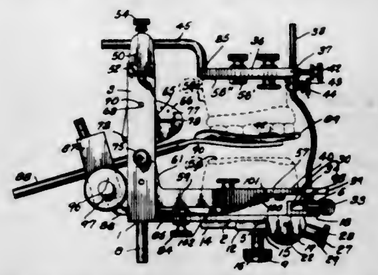
1. A device for use as a churn and butterworker comprising a sheet metal drum provided with a roughened inner surface, said drum being formed from a rust-resistant alloy containing at least 18 per cent chromium and a covering layer of an alloy containing at least 18 per cent chromium which has been applied to said roughened surface by metallization, whereby a butter contacting surface is secured, which surface when moistened will not readily adhere to butter.

2,608,760
PREFORMED DENTAL ARCH
Eric H. Zahn, Kirkland, Wash.
Application April 25, 1949, Serial No. 89,411
4 Claims. (Cl. 32—2)



1. A dental arch, comprising: three end-abutting inflexible blocks of artificial teeth, the teeth of each block being securely fused to its neighbors in the interproximal region, each block forming an integral, self-supporting assembly independently of gum denture structure, a first of said blocks being composed of the posterior teeth on one side from a point in the cuspid-bicuspid area rearward, a second of said blocks being composed of the posterior teeth on the other side from a point in the cuspid-biscuspid area rearward, and the third of said blocks being composed of the anterior teeth between said first and second blocks; said blocks having openings in their adjacent abutting ends; and, means joining said first block to said third block and said second block to said third block, said means comprising an elongated, transversely and longitudinally symmetrical metal hinge bar embedded at its ends in said openings in said blocks contiguous to the interproximal region on each side of the line of abutment, said hinge bar having larger transverse dimensions vertically than horizontally and being manually flexible in a substantially horizontal plane and relatively inflexible out of said plane by normal manual pressure.

2,608,761
ARTICULATOR
Joseph E. Scott, Pratt, Kans.
Application June 8, 1950, Serial No. 166,789
7 Claims. (Cl. 32—32)

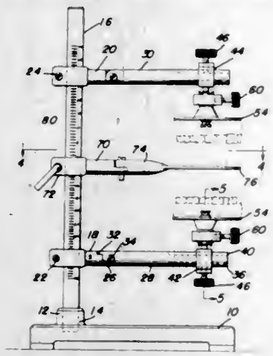


1. An articulator including a base member having laterally spaced uprights, trunnion supports having cam slots provided with upper and lower curving portions, means pivotally mounting said trunnion supports for movement on a horizontal axis to change the angularity of the cam slots according to the angularity of the cusps of the posterior teeth which are to be employed when the articulator is in use, a mandible arm for supporting a lower bite plate and having rearwardly extending arm portions provided with upwardly extending terminals, trunnions carried on said terminals and extending through said cam slots so that when the mandible arm is moved and a trunnion rotates in one cam slot the other trunnion moves down following the curvature in the other cam slots analogous to rotation of the head of the condyles the sides of a lower jaw, an incisal pin carried by the mandible arm, an incisal guide having pivotal mounting on the base about a transverse horizontal axis for defining an orbital path for movement of the incisal pin, means for securing the incisal guide in an adjusted angular position relative to its pivotal mounting to retain the incisal guide at an angle corresponding with the cusp angle of the posterior teeth to be used for effecting said trunnion movement when the incisal pin is moved in said orbital path, a maxilla arm for supporting an upper bite plate, and means hingedly supporting the maxilla arm above the mandible arm.

2,608,762
DENTURE MODELING ARTICULATOR
Myron R. Fox, Brookville, Ohio
Application October 18, 1951, Serial No. 251,923
8 Claims. (Cl. 32—32)

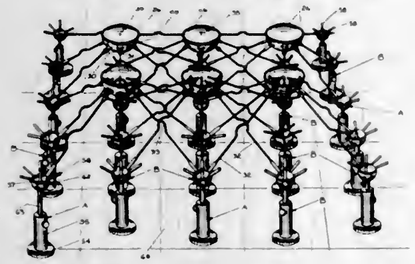
1. A denture modeling articulator comprising a base, a vertical standard mounted in said base,

a pair of tray arms slidable on said standard, a central arm slidable on said standard, each of said arms being positioned at right angles to said standard, means for detachably locking said arms in place on said standard, articulated joints in said upper and lower arms, stop means for positioning said upper and lower arms in a plane perpendicular to said standard, upper and lower guideways on each of said arms, a sleeve on each of said arms, a key in said sleeve, said key being



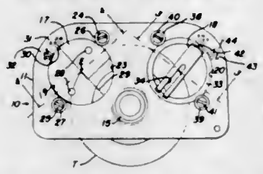
received in one of said guideways, a locking screw in threaded engagement with said sleeve, said screw being received in the other guideway, a post on said sleeve, a ball terminal on said post, a tray support, a socket on said tray support, said socket receiving said ball, a collar around said ball and socket, means for tightening said collar to immobilize said ball and socket, a tray on said support, an anchoring stud secured on said tray, a horizontal plane plate mounted on said central standard.

2,608,763
METHOD AND APPARATUS FOR PHOTOGRAMMETRICALLY CONSTRUCTING TOPOGRAPHICAL MAPS
Dudley St. John, Fresno, Calif.
Application September 3, 1946, Serial No. 694,623
4 Claims. (Cl. 33—1)



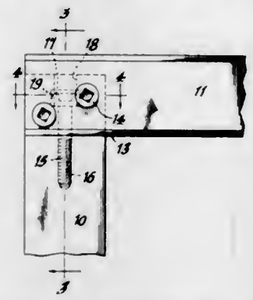
1. A three dimensional mapping method comprising substituting freely sliding lineals for sight lines from a plurality of displaced perspective centers to control points and pass points, graphically positioning simulated control points in three dimensional spaced relation at any scale, maintaining the lineals emanating from each perspective center in constant angular relation to each other, applying the lineals for the control points to the graphically positioned simulated control points, and integrating the lineals from a plurality of perspective centers to graphically position simulated pass points relative to said graphically positioned simulated control points by the constrained intersection of a plurality of lineals for each simulated pass point.

2,608,764
SCRIBING AND INSPECTING GAUGE FOR CIRCULAR FORM TOOLS
Herman R. Somma and Henry J. Somma, Waterbury, Conn., assignors to The Somma Tool Company, Waterbury, Conn., a corporation of Connecticut
Application August 1, 1949, Serial No. 107,886
6 Claims. (Cl. 33—32)



1. In a gauge for circular form tools, a base plate having means for clamping a form tool of predetermined diameter against one face thereof, a circular aperture in said plate, the center of said aperture being located in alignment with a point on the periphery of the form tool held by said clamping means, and a scriber guide rotatably mounted in said aperture, said scriber guide comprising a slotted bar which is held in a diametrical position adjacent said aperture by means of a ring mounted for rotating movement in said aperture.

2,608,765
SQUARING TOOL
Joseph F. Doud, Buffalo, N. Y.
Application November 17, 1949, Serial No. 127,981
3 Claims. (Cl. 33—112)



1. A squaring tool, comprising a blade, a head mortised at its upper end to define a blade-backing portion and an upwardly-facing squared shoulder against which the lower edge of the blade is adapted to abut, a pair of substantially diagonally-disposed screw means for transversely fastening the blade to the head, said blade having a recess between its upper and lower edges and in that side thereof facing the backing portion of the head, and an adjusting screw disposed centrally in the upper end of said tool-head at right angles to and between said transverse screw means and having its head extending at one side thereof into register with said blade-recess, one or the other of said diagonally-disposed screw means serving as a fulcrum during the adjustment of the blade.

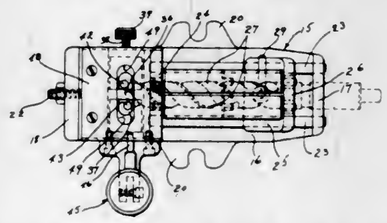
2,608,766
TRAMMEL
John W. Thein, St. Paul, Minn.
Application January 2, 1948, Serial No. 325
1 Claim. (Cl. 33—158)

A trammel comprising an elongated beam, a relatively rigid U-shaped bracket slidably supported on said beam, said bracket having spaced sides and a connecting base, said sides being provided with apertures spaced sufficiently from the free ends thereof to provide finger gripping portions on said sides, said apertures in the sides of said bracket fitting about said beam with a sliding fit, a relatively flexible U-shaped spring slidably supported on said beam, said spring having spaced sides and a connecting base which is fixedly anchored to the connecting base of said bracket, said spring sides being provided with apertures spaced sufficiently from the free ends thereof to provide finger gripping portions com-



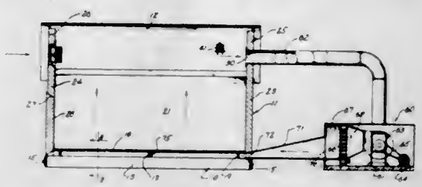
mensurate in length with the finger gripping portions on said bracket sides, said apertures in the sides of said spring being relatively large to permit movement of the beam therethrough when said spring is flexed, said spring normally being biased against said beam on opposite sides of said bracket to hold said bracket from movement on said beam, whereby the person using the trammel is provided with a choice of gripping the finger portions of either bracket side and the finger portion of the next adjacent spring side or gripping the finger portions of both spring sides.

2,608,767
GAUGE FOR CONE TIPPED TOOLS
George E. Hall, Flint, Mich.
Application March 6, 1946, Serial No. 652,282
6 Claims. (Cl. 33—201)



1. In a gage for cone tipped work pieces, an elongated support including a work piece holding means, a pair of spaced parallel identical cylindrical abutments slidingly carried by said support and movable transversely of the support for receiving one end of a work piece, said abutments being longitudinally offset with respect to the longitudinal axis of a work piece on said means whereby the abutments will contact spaced points on the conical end of a work piece, and means on said support and responsive to a transverse movement of said pins relative to a work piece contacting the same for indicating imperfect conicity in the conical end of a work piece.

2,608,768
AUTOMATIC DEHYDRATION APPARATUS FOR CEREALS
William A. Noel, Washington, D. C., assignor of one-third to John N. Joerger and one-third to Robert C. King, both of Washington, D. C.
Application July 5, 1949, Serial No. 103,083
2 Claims. (Cl. 34—54)

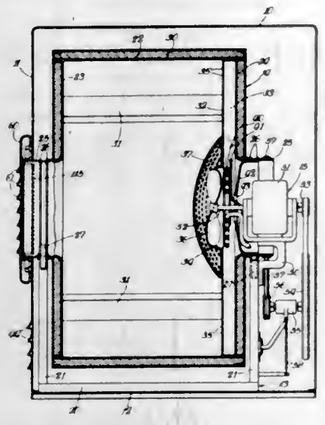


1. An apparatus for dehumidifying a cereal comprising a base provided with an upwardly open longitudinal channel, a housing mounted on the base above said channel, movable means for closing the opposite ends of the channel, said means adapted to be opened for the removal of the cereal when discharged into the channel, transverse supports above the channel a floor having perforated movable sections positioned on said transverse supports for supporting the cereal above the base and channel, the channel and the space between the floor and base forming an air chamber, an air heater located externally of the housing, a blower, a casing enclosing the heater and connecting the blower with the air chamber below the perforated floor and including a tube having a reduced end leading directly into said air chamber, an air return conduit connecting the top of the housing with the blower, means for causing air to be exhausted from the housing, means located in the housing in the path of the air entering the return conduit controlling the last mentioned means when the saturation of the water vapor in the air has reached a predetermined degree, the cereal being stored on the perforated floor so that the heated air is forced upwardly through said cereal to remove moisture, the floor sections being movable to discharge the cereal into the channel for removal therefrom.

2,608,769
DRIER
Charles S. O'Neil, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application July 19, 1946, Serial No. 684,939
7 Claims. (Cl. 34—131)

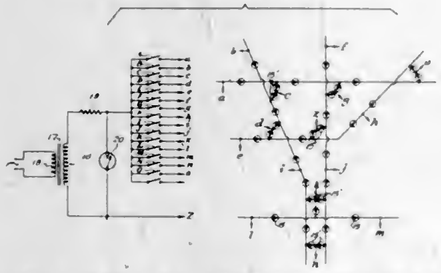
1. A laundry dryer comprising a rotatably driven, generally cylindrical drum mounted on a horizontal axis, a partition within said drum extending transversely to the drum axis adjacent the rear end of the drum to provide a drying chamber constituting the major portion of the drum and an air passage in the rear of the drum, said partition having openings at its axis and adjacent its periphery and an imperforate annular portion in said partition between the openings at the axis and the periphery, heating means within said air passage, and rotary means mounted within the drum coaxially therewith for producing a flow of air through said openings in said partition

for recirculation and reheating of the air within said drying chamber, said air passage having an axially located intake and said drying chamber having an axially located outlet whereby air from outside the drum is introduced into said flow and



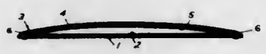
a portion of said flow is discharged from said drum, said imperforate annular portion confining at least the recirculated portion of said flow to passage over said heating means whereby said recirculated portion is heated thereby.

2,608,770
ROUTE-FINDING DEVICE
Reginald Frederick Hansford, Bognor Regis, England, assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application February 25, 1948, Serial No. 10,901
In Great Britain November 29, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 29, 1966
4 Claims. (Cl. 35—40)



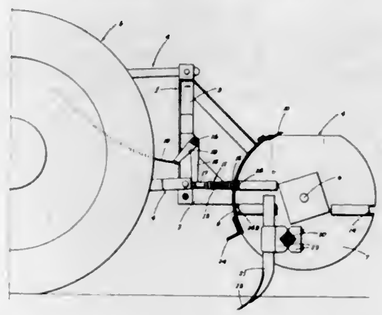
1. In a device for determining the shortest route from one point to a selected point among a plurality of routes between said points, a maze of electrically interconnected channels representing routes between a plurality of points and a plurality of routes between a plurality of pairs of points, an energy source and means for connecting said source simultaneously to apply energy to all of said channels which represent routes between the two desired points, a plurality of gas discharge tubes connected in each of said channels, the number thereof in any one channel depending upon the length of the route represented by that channel, said gas discharge tubes being operable to impede the flow of energy therethrough when the energy level is below a predetermined value but to freely conduct energy therethrough when the energy level is equal to or above said predetermined value, whereby energy sufficient to operate the gas discharge tubes will flow only through that channel comprised in said plurality of channels having the least number of tubes included therein to the exclusion of any of the remaining channels having a greater number of tubes included therein, and a meter connected in circuit with said energy source and all of said channels for indicating the magnitude of the energy consumed in the respective channels whereby the approximate travel time required to traverse the route corresponding to an energized channel may be indicated.

2,608,771
WRITING PAD
Ernest Sparks, Edgware, England
Application October 6, 1950, Serial No. 188,773
In Great Britain September 7, 1949
2 Claims. (Cl. 35—66)



1. A writing pad comprising an apertured frame a semi-transparent sheet and a superimposed protective transparent sheet assembled as and forming a resilient and unitary structure with said semi-transparent sheet and said frame, a backing plate having a coating layer of adhesive material constituting a secondary and relatively stiff unitary structure the adhesive layer of which is adapted to unite said semi-transparent sheet with the backing plate on the application of pressure by a writing instrument, and dual functional means for slidably connecting and maintaining the separate unitary structures in permanent association along their side edges, and for enabling one structure to bow outwardly as a unit relatively to the other on the application of pressure in opposite directions inwardly of their side edges.

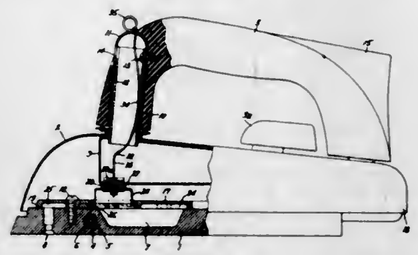
2,608,772
DUAL PURPOSE GROUND WORKING IMPLEMENT
Royal B. Laird, Merced, Calif.
Application March 17, 1947, Serial No. 735,219
4 Claims. (Cl. 37—145)



3. A ground working implement comprising a rotary structure including rotary ends and a transverse wall rigidly connecting said ends adjacent their periphery, a transverse, earth digging blade secured to the wall along one edge thereof, a transverse horizontal tool bar extending in the rotary structure adjacent the opposite edge of the wall, a transverse row of earth working teeth mounted on the tool bar and projecting outwardly of the rotary structure, a draft frame

in which the rotary structure is journaled on a transverse, horizontal axis, and means between the frame and structure operative to releasably lock the latter in position with the blade or the teeth in lowered, working position, selectively.

2,608,773
STEAM IRON HAVING IMPROVED WATER RESERVOIR AND STEAM GENERATOR
Frank E. Finlayson, Ontario, Calif., assignor to General Electric Company, a corporation of New York
Application January 18, 1951, Serial No. 206,555
2 Claims. (Cl. 38—77)



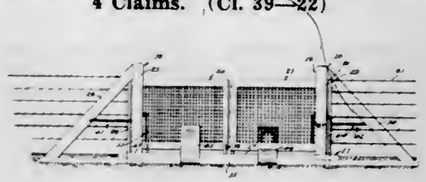
1. In a steam pressing iron, an electrically heated sole plate comprising metal having high thermal conductivity and having a steam generating cavity therein, a cover plate of similar metal positioned on the sole plate over said cavity in thermal contact therewith to define a steam generating chamber, said cover plate having an opening in line with said cavity, a water reservoir positioned in the iron above and in spaced relation to said sole plate and cover plate, and walls including a boiler cover cast integral with said cover plate and covering the opening therein which connect the reservoir to said cover plate and define a passage for flow of water from the reservoir to said chamber, said boiler cover being formed of metal of thin cross section and relatively low thermal conductivity compared to the metal of said cover plate whereby it serves to minimize the transfer of heat from the cover plate to the reservoir.

2,608,774
IRONING BOARD COVER
William McCrory, Los Angeles, Calif.
Application June 18, 1948, Serial No. 33,789
2 Claims. (Cl. 38—140)



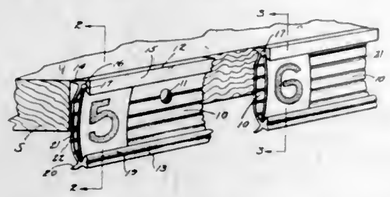
1. In an ironing board, a cover comprising: a tensioned metal frame of elongated U-shape formed with similar legs formed to fit the lateral edges of an ironing board and joined by an intermediate portion adapted to overlie the small end of the ironing board, and a fabric cover formed with top and bottom sections secured together at corresponding edges to provide a space closed at opposite ends for receiving the frame, said bottom section being transversely cut to provide an open pocket for receiving the butt end of the board when the remainder of the cover is stretched over the frame, the legs of said frame being pivotally secured at transversely opposite ends to the butt section of the board, said frame when moved into conforming engagement with marginal edges of the board being effective for holding the cover tightly stretched on the board for use.

2,608,775
AUTOMATIC VERTICALLY PIVOTED GATE
Loammia O. Mott, Bristow, Okla.
Application September 1, 1950, Serial No. 182,777
4 Claims. (Cl. 39—22)



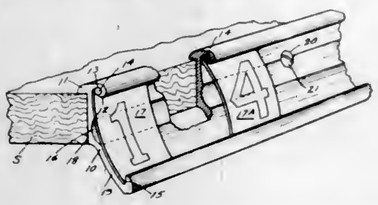
2. In a vehicle actuated gate, a base frame having side members and end members, said side members including stationary vertical frames on said side members and providing gate posts defining a gate opening therebetween, gate sections having outer ends pivoted on vertical axes on said gate posts whereby the gate sections can swing in opposite directions to open positions from closed positions wherein the gate sections are aligned with each other, means yieldingly urging said gate sections toward their closed positions, vehicle actuated means mounted on said base frame on opposite sides of the gate sections, each of said vehicle actuated means comprising a lever assembly comprising a bar extending along and journalled on the related base frame end member, a pair of treadle arms fixed on said bar, treadles overlying said treadle arms, the treadles being laterally spaced from each other so as to be engageable at the same time by the wheels on opposite sides of a vehicle, and lever arms fixed on and rising from the ends of said bar, said lever arms being disposed at an angle to said treadle arms, connecting rods having ends connected to the upper ends of said lever arms and other ends connected to eccentric portions of the said outer ends of the gate sections, the length of said connecting rods being proportioned so that in the closed positions of the gate sections the treadles are tilted upwardly above said base frame in positions to be depressed by the passage of the wheels of a vehicle thereover from either side of the gate and rotate a lever assembly so as to swing the gate sections to open position, one treadle of each pair being relatively short and relatively greatly spaced from the adjacent gate section and the other treadle of each pair being relatively long and having a free end positioned close to the gates adjacent thereto, the free ends of the longer treadles being thereby relatively closely longitudinally spaced from each other whereby wheels of a vehicle passing through the gate opening after having opened the gate sections by depressing a pair of treadles can depress the longer treadle of the other pair upon leaving the longer treadle of the first pair and subsequently depress the shorter treadle of the second pair so as to maintain the gate sections in open position until the vehicle wheels have passed from the treadles of the second pair.

2,608,776
PRICE TAG MOLDING
Fred G. Schuler, Youngstown, Ohio, assignor to Youngstown Manufacturing, Incorporated, Youngstown, Ohio, a corporation of Ohio
Application June 16, 1950, Serial No. 168,528
1 Claim. (Cl. 40—10)



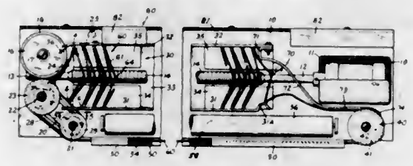
A price tag molding comprising an elongated body having a concaved front face vertically arcuate for substantially the entire distance between upper and lower side edges of the body, forwardly disposed flanges along the said upper and lower side edge of the body, the upper flange being formed with a longitudinal channel in its under portion circular in cross section and open along its under portion to provide a slot, said slot being of less width than the diameter of the channel and extending forwardly and rearwardly of a diameter taken vertically through the channel, there being an inner surface for the upper flange extending upwardly at a rearward incline and terminating along the front side edge of said slot, and a rubber-like cord fitted into said channel through said slot, said cord being circular in cross section and filling the channel and for a portion of its circumference being exposed through the slot whereby a price tag disposed in front of the body between the flanges and guided rearwardly by the flanges may have its upper edge disposed in abutting contact with the exposed portion of the cord substantially along a vertical diameter thereof and press a portion of the exposed portion of the cord inwardly for straddling and gripping engagement with the upper edge portion of the price tag.

2,608,777
PRICE TAG AND MOLDING TRIM
Fred G. Schuler, Youngstown, Ohio, assignor to Youngstown Manufacturing, Inc., Youngstown, Ohio, a corporation of Ohio
Application July 30, 1949, Serial No. 107,742
3 Claims. (Cl. 40—16)



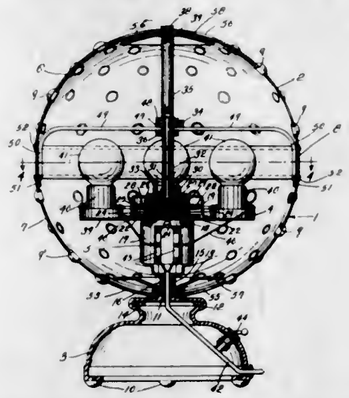
1. A price tag and moulding trim comprising a main body portion, rigid flanges extending along the opposite edges of the said main body portion defining channels for receiving the upper and lower edges of a price tag, one of the said flanges being inturned to form a partially closed channel having an entrance of reduced width, and a resilient cord fitted into the said partially closed channel through the entrance thereof and being initially of greater thickness than the width of the entrance and compressed when fitted into the channel and constituting means for resiliently clamping the price tag in position between the cord and the rear wall of the channel.

2,608,778
MOVING SIGN
William F. O'Gorman, New York, N. Y., assignor to Adolite Mfg., Inc., Flushing, N. Y., a corporation of New York
Application March 16, 1949, Serial No. 81,825
7 Claims. (Cl. 40—32)



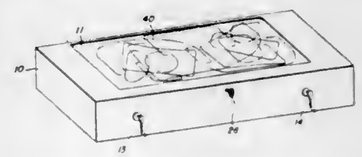
4. A moving sign having a casing provided with an elongated opening in its front side, an endless band comprising a plurality of interconnected sections of equal length, a guide channel with parallel stationary side walls spaced apart a distance less than the length of said sections, a motor located back of one end of the opening, a driving pulley engaging the band located back of the other end of the opening, mechanism including a threaded shaft extending through the channel from the motor to the pulley for driving the pulley to draw the band out of the motor end of the channel, to pull the band in one direction across the opening with the sections of the band in mutual alinement, and to fold the sections of the band intermediate their ends and over one another and to move the folded sections into the space between the walls of the channel and onto the threaded shaft in the channel with the lower edges of the sections in engagement with the threads on the shaft.

2,608,779
ORNAMENTAL DISPLAY DEVICE
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 11, 1948, Serial No. 26,322
11 Claims. (Cl. 40—77)



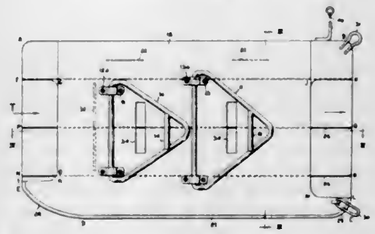
1. In a display device, a base, a revolving globe comprising a partial upper globe section, a partial lower globe section and a band intermediate said sections and cooperating therewith to complete the globe, means for mounting said globe for rotation about an upright axis on said base, said mounting means including a central support carried by said base, armlike brackets secured to said central support and secured at their outer ends to said lower globe section and an upper support portion between said central support and said upper globe section, said brackets and said upper support portion supporting said globe sections with their adjacent edges in fixed spaced apart relation, and said band supported entirely by said globe sections between said spaced adjacent edges, and means for detachably securing said upper globe section to said upper support portion whereby said upper globe section may be raised to move said spaced edges further apart to permit removal of said band.

2,608,780
PATTERN ROLL TABLE
Archie L. Mishler, Portland, Oreg.; F. Brock Miller trustee of the estate of said Archie L. Mishler, bankrupt
Application August 10, 1948, Serial No. 43,460
10 Claims. (Cl. 40—86)



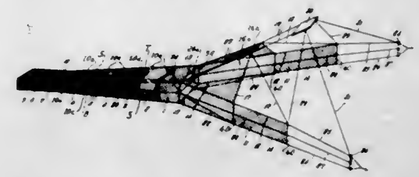
5. In a pattern roll holder and the like, a flat horizontal transparent surface, a horizontal platen beneath said surface, a pair of rolls arranged to pass a long sheet from one roll to the other between said platen and said surface, means to turn said rolls to wind said sheet from one roll to the other, elevating means movable relative to said rolls to raise said platen against said surface, individual brake means on said rolls, and a common actuating means for said elevating means and said brake means to stop the rotation of said rolls when said platen is elevated.

2,608,781
OTTER BOARD
Maurice Pierlot, Heist-aan-Zee, Belgium
Application April 22, 1949, Serial No. 88,996
In Belgium April 28, 1948
27 Claims. (Cl. 43—9)



1. A flat and thin otter board to be dragged through the water comprising: two side plates, and means to connect said plates at least along their top and bottom edges to provide an open ended channel between said plates through which water can freely flow, said channel having a mean width in relation to the length of said board in the direction it is dragged, which relation ranges from one to forty to two to forty.

2,608,782
TRAWLNET
Casper Josephus Bottemanne, Voorburg, Netherlands, assignor to Dorus van Pel, Soerabaya, Indonesia
Application July 6, 1949, Serial No. 103,222
In the Netherlands July 20, 1948
6 Claims. (Cl. 43—9)

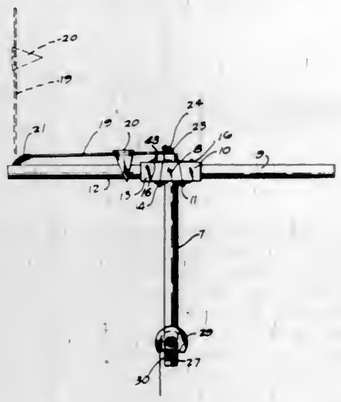


1. In a trawl-net, a truncated pyramidal central portion of rectangular cross section having side walls provided with ropes adapted to take up and distribute the forces exerted on the net and extending forwardly and outwardly therefrom, net portions connected between said ropes so as to define outwardly diverging wings, a forwardly slanting net portion having its lower longitudinal side edges connected to the adjacent longitudinal edges of said wings, and thus forming a continuous net member with said wings, a back rope extending along the foremost edge of said slanting net portion, said last mentioned net portion and said wings merging with and connected to the entrance to said pyramidal central portion along lines located in a plane coinciding substantially with the plane passing through the front ends of said side walls so that a rectangular mouth is formed at the entrance to said central portion, substantially vertical ropes located in said plane and extending transverse to the longitudinal upper and lower edges of said sidewalls for connecting the adjacent upper and lower edges of said central portion, at least one middling interconnecting one end of one of said substantially vertical ropes with the end of another substantially vertical rope at said entrance, means spaced from and arranged forwardly of said back rope operable to bias said back rope in a direction normal to the direction of movement of the net, and lines connecting said means with said slanting net portion and said middling.

2,608,783
FISHING TIP-UP SIGNAL
Frank O. Rogers, Dearborn, Mich.
Application July 31, 1948, Serial No. 41,789
2 Claims. (Cl. 43—17)

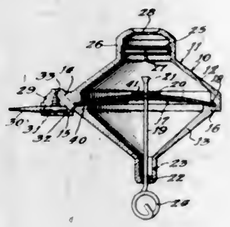
1. A fishing tip-up signal of the class described comprising a tubular standard adapted for projecting through a hole in the ice and having its lower end submerged in the water and adapted for reception of non-freezing material; a closure for each end of said standard, a rod rotatably projected through said closures, said rod having an angularly outturned portion on the lower end thereof, a reel mounted on the lower end of said standard and adapted for rotation thereon and adapted for the reception of a fishing line, a tongue mounted on and projecting outwardly beyond the periphery of said reel at right angles to its axis of rotation and adapted for engaging the angularly outturned portion on said rod for rotating the same on its axis, a pair of laterally projected arms swingably mounted on the upper end of said standard and swingable in one direction to extend outwardly at right angles to said standard; and an abutment member on said standard for limiting swingable movement of said

arms in said direction, a signal bearing rod swingably mounted on one of said arms, a spring member connecting one end of said rod to said arm and adapted for normally maintaining said rod in upwardly extended position, and an angularly outturned portion on the upper end of said



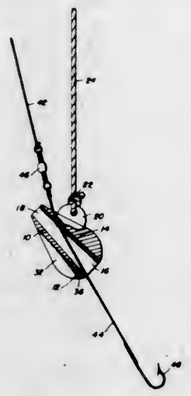
first-named rod for engaging and bearing upon said signal bearing rod when the latter is folded downwardly into a parallel relation with respect to the arm on which it is attached, and moveable into non-engagement therewith upon rotation of said first-named rod by said tongue.

2,608,784
SIGNALING DEVICE
Sebastiano Lando, Chicago, Ill., assignor to Land-O-Tackle, Inc., Chicago, Ill., a corporation of Illinois
Application April 15, 1950, Serial No. 156,064
4 Claims. (Cl. 43—17)



3. Fishing tackle comprising, in combination, a fishing pole or rod employing fish line guiding means having a fishing line slidably projected therethrough, an audible signal device including a housing detachably attached to an end portion of the fishing pole or rod, audible signal means in the housing including a flexible diaphragm extending across the housing and having an operating stem or rod attached thereto and including a portion projecting exteriorly of the housing and embodying means for frictionally and releasably gripping a portion of the fish line so that the operating stem or rod is pulled downwardly and the flexible diaphragm is flexed by a pull upon the fish line and the fish line is released from frictional engagement with the operating stem by a continued pull on the line or rod at the completion of the downward movement of the operating stem or rod.

2,608,785
FISHHOOK RELEASER
John K. Hall, Miami, Fla.
Application February 12, 1948, Serial No. 7,796
1 Claim. (Cl. 43—17.2)



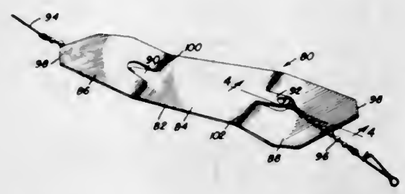
For use with a fishing line having an abutment thereon, a fish hook releaser comprising a body having a reduced upper end and a tapered bore therethrough, the reduced end of said tapered bore being disposed in the upper end of said body, an ear integrally formed with said body and disposed intermediate the ends of said body, a pulling member attached to said ear, said body having a plurality of circumferentially spaced diverging slots in its upper end for selectively receiving a line extending through the bore, and a pulling member attached to said ear for tilting the body to urge the line into one of said slots, said abutment being engaged by said body when the pulling member is raised.

2,608,786
FISHHOOK CONSTRUCTION WITH PULL ACTUATED RELEASE MEANS
Paul J. Schwartz, Kingfisher, Okla.
Application August 27, 1951, Serial No. 243,853
3 Claims. (Cl. 43—36)



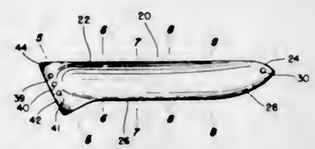
1. A pull actuated spring loaded fish hook construction comprising an expansible and contractible substantially V-shaped member embodying converging flexibly resilient limbs joined at corresponding ends through the medium of a coil spring, companion fish hooks carried by the opposite corresponding ends, the latter ends being spreadable and one of the latter ends having an inturned keeper hook, the remaining latter end having an elongated loop providing a lost motion connection, and a pull actuated trigger wire having a portion intermediate the ends thereof slidable through said coil spring, and having a line eye at its leading end and a lateral hitching eye at its trailing end, said last named eye being slidably hitched to said lost motion connection and also functioning as a keeper and being releasably connectible with said keeper hook.

2,608,787
FISH LURE
Eldon L. Krogue, Seattle, Wash.
Application March 4, 1949, Serial No. 79,614
1 Claim. (Cl. 43—42.5)



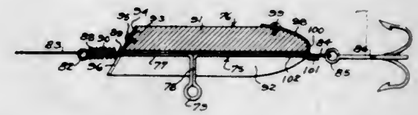
In a fish lure, a body comprising an elongated plate having straight front and rear transverse edges and bevelled corners, said plate including a flat intermediate portion, a forwardly and upwardly extending front portion and a rearwardly and downwardly extending rear portion, said intermediate and front and rear portions having straight lateral edges, and a pair of flat tongues struck out from the respective front and rear portions of the plate and constituting longitudinal and coplanar continuations of the respective front and rear ends of said intermediate portion, said tongues being provided with apertures for attachment to a fishing line and a fishhook leader respectively.

2,608,788
DARTING FISH LURE OF THE SWIMMING TYPE
William F. Niemi, Seattle, Wash.
Application March 6, 1950, Serial No. 147,817
5 Claims. (Cl. 43—42.5)



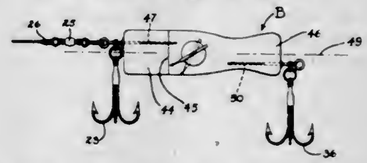
1. A darting fish lure, comprising: a rigid body made of a strip of thin material; the top and bottom edges of said body throughout the most of their extents lying substantially in horizontal planes which are parallel, said top edge having a downward bend at its rear end, said bottom edge having a downward bend at its forward end and an upward bend at its rear end, said upward bend at the rear end of said bottom edge starting before said downward bend at the rear end of said top edge and being more extensive although not making as abrupt a curve and together forming a tapered and pointed rear end; said body having a curvedly concave shape towards one side in vertical transverse cross section except for the extreme forward end where there is a reverse curve in the opposite direction, said body having a gradually curved, concave shape toward the aforementioned concave side in horizontal longitudinal cross-section except for the extreme forward end, the forward edge of said body lying substantially in a single transverse plane with the top portion of said forward edge disposed forward of the bottom portion of the same; and said lure having a hook secured near the rear end and means for securing a towing line near the front end.

2,608,789
DEMOUNTABLE CASTING PLUG
Jay S. Stone, Dolgeville, N. Y.
Application February 25, 1948, Serial No. 10,691
1 Claim. (Cl. 43—42.09)



In a plug bait, a longitudinally extending skeleton frame structure provided with a pair of parallel leg portions, a loop interconnecting said leg portions together and adapted to support a fishhook, an eye arranged on the front end of said frame and adapted to be attached to a fish line, an eye arranged on the rear end of said frame for supporting a fishhook, a pair of spaced washers mounted on the front end of said frame, a coil spring circumposed on said frame and interposed between said pair of washers, a bait body having a longitudinal slot extending from the belly to the axial center of said body for receiving therein said frame, the front end of said body being inclined forwardly and downwardly and the rear end of said body being circumferentially tapered inwardly of the plane of the belly of the said body, a plate secured to the front end of said body and having a slot for the projection therethrough of said frame, a bracket secured to the rear end of said body and following the contour thereof, an intermediate forwardly extending projection on the bracket adapted to be received in the slot in the body and a pair of spaced parallel projections extending rearwardly from said bracket and following the contour of the rear end of said body for engagement with the eye on the rear of said frame.

2,608,790
FISH LURE
Robert J. McFarland, White Bear Lake, Minn.
Application October 5, 1945, Serial No. 620,446
5 Claims. (Cl. 43—42.46)

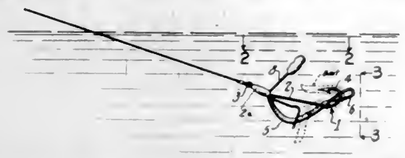


1. A lure comprising an elongated body, a screw eye extending into one end of said body, an exposed shank portion on said screw eye, a ring on said shank of smaller diameter than the eye of said screw eye, a hook, and a second ring connecting said first named ring and said hook, said second ring being larger than said first named ring and having an internal diameter smaller than the external diameter of said eye.

2,608,791
FISHHOOK
Paul L. Wentz, Fostoria, Ohio
Application November 30, 1950, Serial No. 198,362
2 Claims. (Cl. 43—44.2)

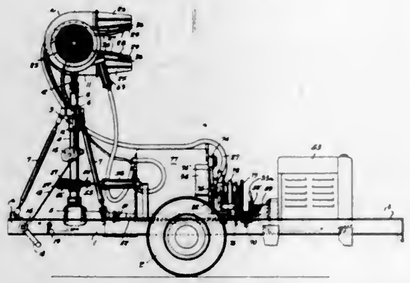
1. A fishing lure comprising a pair of hooks, one hook having a straight shank with a connection point adjacent its upper end and provided also with a bill having a barbed point, said barbed point being in a plane outside of the plane of the

shank and bill, a second shank extending from the shank of the first mentioned hook at an acute angle therefrom, said second shank being provided with a curved portion, said curved portion having at one end thereof a bill and barbed



point, the bill of the second shank overlapping the bill of the first shank and being normally spaced therefrom, the shanks of the hooks being connected to each other, only at said connection point.

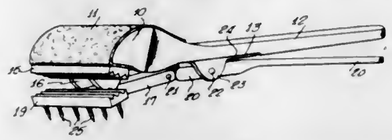
2,608,792
MOISTENED DUST SPRAYING MACHINE
John A. Chater, Topsham, Maine, assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 9, 1949, Serial No. 114,877
2 Claims. (Cl. 43—148)



1. A plant spraying apparatus comprising a spray-head having means for projecting into the atmosphere for admixture an air carrier stream, liquid spray streams, and concentrated dust streams, said means embodying a fan having a comparatively wide, shallow-depth discharge nozzle for producing and projecting an air carrier stream of large volume at low pressure, a plurality of liquid spray nozzles arranged longitudinally of and side by side transversely of the air discharge nozzle, a plurality of similarly arranged dust nozzles disposed between said liquid spray nozzles and the shallow-depth discharge nozzles, the nozzles being arranged axially to discharge their streams in the same general direction, the spray nozzles being positioned closely adjacent the dust nozzles and directed at relative angles such as to cause mergence of the streams and to cause an inter-mixture of the spray and dust streams at or just prior to their mergence with the air stream, means for supplying liquid under pressure to the liquid spray nozzles, and means for supplying streams of dust in a substantially concentrated state to the dust nozzles.

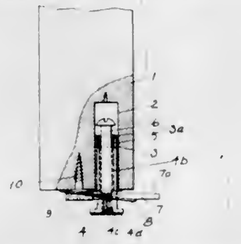
2,608,793
UPHOLSTERING TOOL
Claud W. Gant, Dallas, Tex.
Application April 30, 1948, Serial No. 24,171
2 Claims. (Cl. 45—138)

1. In an upholstering tool, the combination comprising a substantially T-shaped member defining an integral head having a substantially flat underside and a substantially semi-cylindrical upper portion, and a handle at right angles to said head having a flat underside on the same plane as the underside of said head and provided with a longitudinal recess, a longitudinally ribbed jaw stationary with the underside of said head adjacent the forward edge thereof, and disposed at right angles to the longitudinal axis of said handle, a movable jaw having ribs meshing with the ribs of said stationary jaw and provided with an arm at right angles thereto, a plate affixed in the longitudinal recess of said handle,



parallel ears depending from the forward end of said plate pivotally supporting said arm intermediate its ends for rocking displacement, a second pair of ears depending from said plate adjacent its rear end, a lever having a bend intermediate its ends and pivoted to a second pair of ears, means pivotally connecting the forward end of said lever loosely to the rearward end of said arm, and spring means interposed between said plate and said lever rearwardly of said second pair of ears and effective to normally urge said movable jaw towards disengaged position.

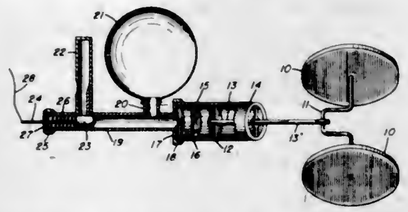
2,608,794
TABLE LEVELER
Albert J. Matter, Park Ridge, Ill.
Application June 25, 1948, Serial No. 35,101
2 Claims. (Cl. 45—139)



1. The combination of a cup-shaped housing wholly insertable in the bottom of a table leg or base, a foot-plug slideably mounted therein, a lock-bar having an orifice surrounding said foot-plug and fulcrumed at one end, a W-shaped spring having inturned ends disposed to press against the underside of the aforesaid lock-bar at points distant from said fulcrumed end, and a fastening plate attachable to the bottom of said table leg or base so as to hold the center of the W-shaped spring in place and simultaneously serve as a guide and fulcrum for the said lock-bar.

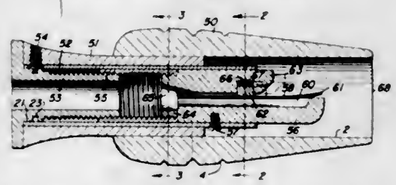
2,608,795
WHISTLING TOY
Howard K. Marcell, Irvington, N. J.
Application December 1, 1947, Serial No. 789,080
2 Claims. (Cl. 46—99)

1. A toy comprising a body supported by a wheel rotatable over a surface, a handle secured to the body, a reciprocating pump disposed within the body, a crank axle rotatable upon rotation of the wheel, a connecting linkage between the crank-axle and the piston of the pump to cause operation of the pump upon rotation of the wheel, a tubular air chamber axially-aligned with and communicating with the pump, a one way valve between the pump and the said chamber, a stem extending from the air chamber to the exterior of the body, a balloon removably attached to the stem, said balloon serving as a reservoir for the



compressed air generated by the pump, a whistle communicating with the said air chamber, a slide valve, a spring normally biasing the slide valve to close the air passageway between the air chamber and the whistle, and a flexible member secured to the slide valve and extending along said handle, said flexible member manually operative to move the slide valve thereby opening the air passageway to the whistle.

2,608,796
VARIABLE TONE DUCK CALL
Louis Bicocchi, La Salle, Ill.
Original application May 12, 1949, Serial No. 92,771. Divided and this application April 25, 1951, Serial No. 222,785
2 Claims. (Cl. 46—180)

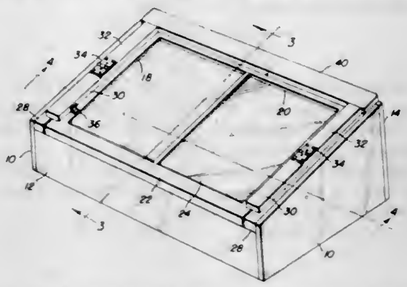


1. In a wind instrument of the class described, a tubular casing having a front mouth end for use in blowing through the casing, wind responsive means in said casing for producing a tone simulating a duck call including a longitudinally grooved tongue forming a sound box, an elongated reed extending along said groove for vibration opposite the same to produce the tone with one end fixed to the tongue, said reed intermediate its ends being flexible against said tongue at different distances from said end to vary the length of the reed which may vibrate opposite the groove whereby to vary the pitch of the tone produced, and means for flexing said reed including a manipulative rotary member in the rear end of said casing, a hold-down stop for said reed slidable along the same, and screw feed means for sliding said stop by rotation of said member.

2,608,797
HOTBED
Harold R. Rawson, Downers Grove, Ill.
Application May 19, 1948, Serial No. 27,912
3 Claims. (Cl. 47—19)

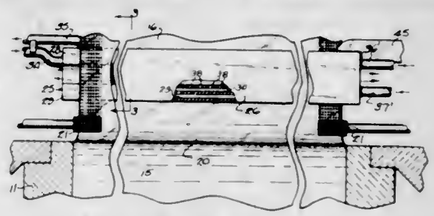
1. A hotbed frame including upright side walls, a front wall, a rear wall of a height greater than the height of said front wall and inclined upwardly and forwardly toward said front wall,

a sash closing the top of said frame, said side walls carrying inclined plates supporting the forward portion of said sash, the upper edges of said plates terminating at the midpoints of the top edges of said side walls and constituting the pivotal supports for the midsection of said sash when the forward portion of said sash is upwardly tilted into open position, a pair of elongated members having an upper portion fixed in rela-



tion to the frame and a lower portion hingedly secured to the upper portion and releasably secured to the sash for pivotal movement therewith, whereby the weight of the sash is substantially balanced for easy opening and whereby balanced forward and rear openings are provided when the sash is tilted in open position to insure against drafts in the hotbed due to wind, while improving ventilation.

2,608,798
METHOD AND APPARATUS FOR PRODUCING SHEET GLASS
Donald E. Sharp, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application August 20, 1945, Serial No. 611,530
11 Claims. (Cl. 49—17)

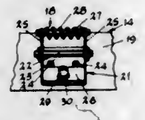


1. The combination, in apparatus for producing sheet glass, of a receptacle adapted to be continuously supplied with a bath of molten glass, means for drawing a sheet or ribbon of glass from said bath, and means defining a zone of sheet formation, with means for establishing and maintaining within said zone controlled flows of air which move from a point adjacent the center line of the sheet being drawn toward the edges thereof comprising, a pair of air compartments arranged in spaced relation to one another substantially equidistant from the sheet being drawn and having air discharge openings at both sides of the longitudinal center line of the sheet and leading from said compartments in a direction away from the center line of the sheet and toward the openings in the other compartment, and means for supplying air under pressure to said compartments.

8. A method of producing sheet glass comprising, drawing a ribbon or sheet from a bath of molten glass through a zone of sheet formation, setting up substantially confined streams of

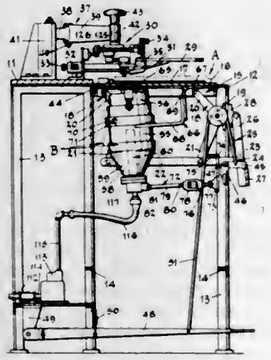
blown air of definite width in direct contact with and blanketing a portion of the sheet and traveling laterally of the sheet through the zone of sheet formation along paths substantially parallel with the sheet being drawn from a point opposite the approximate center line of said sheet toward its opposite edges, and maintaining said streams by blowing jets of air thereinto at spaced intervals across the width of the sheet and at an angle away from the center line of the sheet.

2,608,799
BENDING MOLD LOCATING DEVICE
Eugene W. Babcock, Perrysburg, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Continuation of application Serial No. 117,200, September 22, 1949. This application January 2, 1951, Serial No. 204,053
8 Claims. (Cl. 49—67)



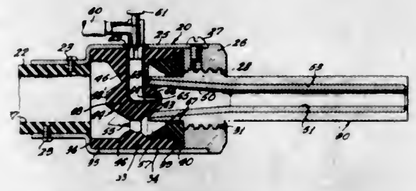
3. In apparatus for bending glass sheets or plates, the combination with a mold having a shaping surface; of a sheet locating device comprising a frame mounted adjacent said mold, and a metal coil carried by said frame in position to contact an edge of a glass sheet when in bending position on said mold.

2,608,800
MARKING SURFACE
George F. Ritter, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application August 27, 1951, Serial No. 246,899
14 Claims. (Cl. 51—5)



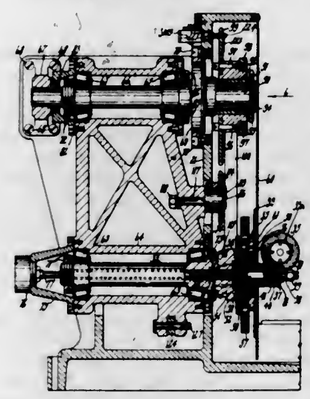
11. In apparatus for processing a glass sheet, a platform for supporting the sheet and having an opening therein, a marking device mounted beneath said platform in substantial alignment with said opening and operable to apply an identifying mark on that portion of said sheet that lies above said opening, a cutting unit including a cutting tool movable over said sheet along a definite predetermined path to score the same, and means actuated by said cutting unit when it reaches a point in said path above said opening for operating said marking device to apply said identifying mark on the glass.

2,608,801
VALVE
Ian M. Ridley, Los Angeles, Calif.
Application January 26, 1951, Serial No. 207,880
15 Claims. (Cl. 51—11)



1. In a valve, for the control of a fluid containing an abrasive such as sand, and including a hollow valve body, rubber liner means disposed within the body substantially lining the interior thereof, a fluid inlet, and a fluid outlet spaced from the fluid inlet, said liner means including a resilient diaphragm extending across the interior of the body between said inlet and said outlet, nozzle means in the outlet axially extensible within the body, the inner end of said nozzle being adapted to move relatively toward and away from the diaphragm and being further adapted to seat and close against the diaphragm in at least one position of axial extension of the nozzle, said diaphragm being formed with passageways communicating between opposite sides of the diaphragm to permit a fluid normally to pass from the inlet to the outlet of the valve, and including a solid central portion adapted to seat against said nozzle to close the same.

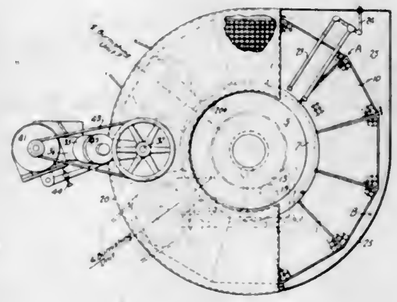
2,608,802
CAM GRINDING MACHINE
Ernest R. Fausset, Ingalls, and Max E. Todd, Windfall, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 1, 1950, Serial No. 153,476
11 Claims. (Cl. 51—127)



4. A machine for grinding a contour on the edge of a blank and comprising a rotary shaft, a work-holder on the shaft for supporting the blank, a support for the shaft capable of lateral movement, a cam follower, a master cam supported by the shaft and engaged by the cam and having a contour such as to cause lateral movement of the shaft coordinated with angular positions thereof, an abrasion device engaged by the blank as the shaft rotates it and the cam positions it by lateral movement of the shaft support,

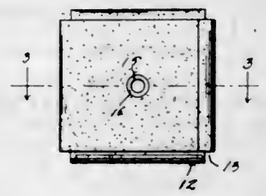
mechanism for rotating the shaft, and means operated by the mechanism for moving the cam follower, after completion of an abrasion operation on an arm of the blank, in a direction such that the blank is moved closer to the abrasion device than during the preceding abrasion operation on said arm of the blank.

2,608,803
BURNISHING MACHINE
Clarence C. Kinker, Manitou Beach, Mich., and James J. Murtagh, Toledo, Ohio, assignors to Gerity-Michigan Corporation, Adrian, Mich., a corporation of Michigan
Application January 25, 1950, Serial No. 140,528
12 Claims. (Cl. 51—134)



1. An article burnishing machine having a tank with its bottom inclined to a horizontal and adapted to hold a burnishing liquid in the lower side portion thereof, and to drain liquid to said lower side portion from elevated portions of the tank bottom, a burnishing liquid in said tank, an endless article-carrying means movable through the tank and liquid therein on an incline substantially corresponding to that of the tank, and means operable to coact with and buff an article carried by said first means when the article is in said liquid.

2,608,804
ABRASIVE POLISHING WHEEL
Henry M. Field, Dayton, Ohio
Application March 6, 1950, Serial No. 147,866
4 Claims. (Cl. 51—193)



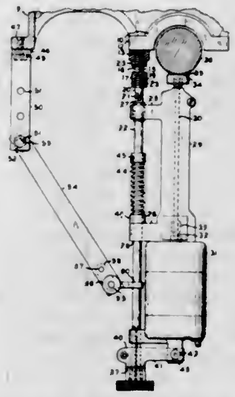
1. An abrasive polishing element comprising a pair of elongated transversely folded abrasive strips interlaced together at right angles to each other, the length of the folded portion of each strip being substantially greater than the width of the strip whereby the pad formed by said strips will be of cruciform shape.

2,608,805
VALVE RESEATING TOOL
Arthur B. Utley, Springfield, Mo., assignor of one-half to Bowman & Drussa Plumbing and Heating Co., Springfield, Mo.
Application August 9, 1949, Serial No. 109,257
1 Claim. (Cl. 51—205)



A valve seat reconditioning tool comprising a relatively thick solid disk shaped body of abrasive material having an axial bore extending therethrough and parallel faces on opposite sides thereof, the peripheries of said faces lying in concentric spaced relation to the bore, a relatively short handle abutting one face of the body, means extending through the bore and through the handle to secure the body to the handle, a convex toric surface on the body extending from the periphery of the body to the periphery of the face thereof remote from the handle, and said body diminishing in cross section as it approaches the face thereof remote from the handle.

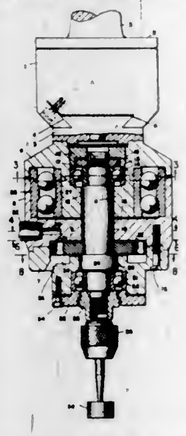
2,608,806
CRANKSHAFT MAIN JOURNAL GRINDER
Fred Robert Henderson, Kansas City, Mo.
Application June 7, 1951, Serial No. 230,397
2 Claims. (Cl. 51—241)



1. Main journal grinding apparatus for an engine block in a motor car having a crank shaft mounted in the engine with the cap removed from the journal to be ground, comprising, an eccentric coupling, means for connecting the eccentric coupling to the block bearing flange, a shaft, a grindstone, a frame, said shaft passing through said frame and receiving the grindstone on the end thereof, an elongated support member, one end of said support member being connected to said eccentric coupling, a hinge, said hinge being in said support member below said eccentric coupling, said support member being spaced parallel with said shaft, means to support said frame on said support member, means to fulcrum said frame on said support member, means to limit the movement of said frame on said support member, a member having a slot in the end thereof adapted to slide longitudinally

on said support member and co-operate therewith as a guide to adjust the support member on said hinge, means to move and hold said member with the slot in the end thereof lengthwise with respect to the crank shaft to adjust the support member with shaft and grindstone at right angles to the axis of the crank shaft, and means to rotate said shaft.

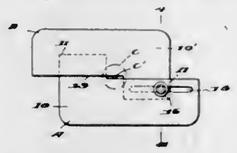
2,608,807
PRECISION HOLE GRINDER
Arne Nilsen and Karl Rohrer, Chicago, Ill., assignors to Onsrud Machine Works, Inc., Chicago, Ill., a corporation of Illinois
Application November 17, 1949, Serial No. 127,832
5 Claims. (Cl. 51—245)



1. A motor unit comprising an end bell adapted to be mounted rigidly on a rotatable support and having an integral outwardly projecting hub, said hub having a central axial bore; a hollow housing surrounding said hub and having its side wall spaced radially therefrom; a bearing having radially spaced inner and outer races, and capable of carrying an axial thrust in both axial directions, interposed between said hub and the side wall of said housing, the inner race of said bearing being mounted fast on said hub and the outer race being mounted fast on the wall of said housing and comprising the sole support therefor; a cap member mounted fast on the end of said housing axially opposite said end bell, said cap member having a central opening therethrough; a shaft extending axially through said housing and cap member and having one end journaled in the bore of said hub; a rotor enclosed by said housing and cap member and fast on said shaft; bearing means in said cap member spaced axially outward from said rotor for holding said shaft in axial alignment with the central bore of said hub, and means within said motor unit for driving said rotor, said housing being independently rotatable relative to said end bell and said shaft.

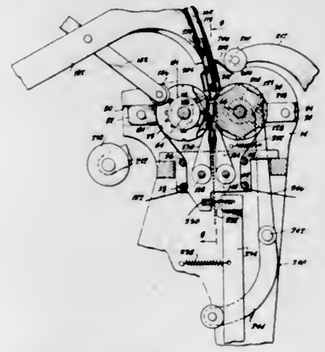
2,608,808
POLISHING GUARD
Jack G. McNeil, Fort Leonard Wood, Mo.
Application February 27, 1952, Serial No. 273,763
4 Claims. (Cl. 51—265)

1. A polishing guard comprising a pair of elongated members of sheet material, at least one of said members being provided with a laterally extended portion adjacent one end thereof adapted to overlap an end portion of the other member, said laterally extended portion and said overlapped portion of said member being each provided with a longitudinally extending slot, and



pivot means loosely mounted in said slot for connecting said members together permitting lateral swinging as well as longitudinal shifting of said members relative to each other.

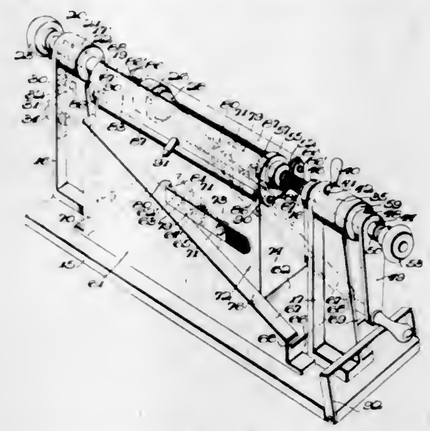
2,608,809
PACKAGING MACHINE
John H. Stroop, New York, N. Y., assignor to The Pad-Y-Wax Company, Inc., New York, N. Y., a corporation of New York
Application February 10, 1950, Serial No. 143,507
In Great Britain May 12, 1949
29 Claims. (Cl. 53—86)



1. In a machine for forming commodity-containing packages of strips of flexible packaging material, in combination, a pair of similarly sized rotatable elements having a plurality of continuous matched independent sealing serrations disposed around matched commodity-defining pockets thereon, a reciprocable mandrel operative in timed relationship with said rotatable elements and cooperatively associated with said commodity-defining pockets for forming packages of predetermined volumetric characteristics, and a commodity-feeding member for depositing a commodity in said package formed by said mandrel and said commodity-defining pocket.

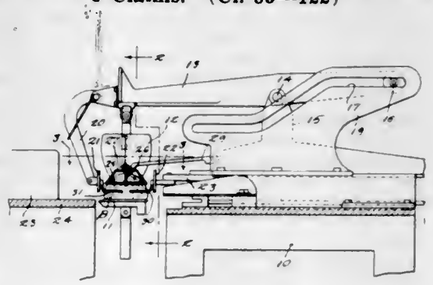
2,608,810
COIN WRAPPING DEVICE
Henry Smathers, Charleston, S. C.
Application September 17, 1948, Serial No. 49,787
9 Claims. (Cl. 53—114)

1. A device for wrapping coins, comprising supporting means, longitudinally spaced bearings carried by the supporting means, a supporting element arranged between the bearings and being vertically adjustable with respect to the bearings, substantially horizontal spaced coin engaging elements mounted upon the supporting element, an axially adjustable shaft mounted in one bearing, a rotatable coin engaging head secured to the inner end of the shaft, an axially shiftable sleeve mounted within the other bearing, an axially shiftable and rotatable shaft mounted within the sleeve, a coin engaging head



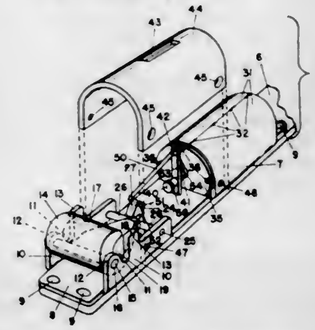
secured to the inner end of the last named shaft, and resilient means to bias the last named shaft inwardly toward the first named shaft.

2,608,811
BREAD WRAPPING MACHINE
Benjamin Stern, Brooklyn, N. Y., assignor to Koster's Bakery Co., Brooklyn, N. Y., a firm
Application February 5, 1951, Serial No. 209,376
3 Claims. (Cl. 53—122)



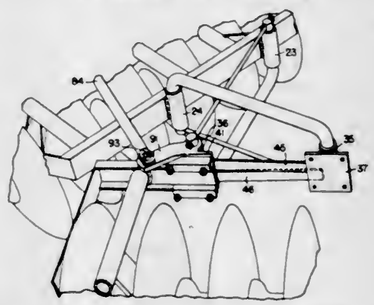
1. An attachment for a bread loaf wrapping machine for round loaves, said machine having a supporting frame and a movable carriage, a pair of opposed arcuate wrapper presser plates engageable against the opposite sides of the loaf, and a lever having an end overlying the top of the loaf secured to said plates for moving the same, whereby round bread loaves may be wrapped by said machine, said attachment comprising a ring engageable about the upper portion of the loaf, a plate above said ring, upwardly convergent arms fixed between said ring and said last-mentioned plate, means connecting said plate to said carriage for simultaneous movement therewith, a pair of substantially semi-circular arcuate presser bars for encircling said loaf and said wrapper, said presser bars overlying the edges of said presser plates, means carried by said bars for securing the latter to said carriage in confronting position relative to each other and at substantially right angles to said presser plates whereby said plates and said bars press the wrapper closely about said loaf, and means for moving said carriage linearly to shift said wrapped loaf.

2,608,812
AUTOMATICALLY RELEASABLE FLANK STRAP FASTENER
Claude B. Hutchings, Medical Lake, Wash.
Application October 16, 1950, Serial No. 190,412
10 Claims. (Cl. 54—1)



3. In combination with a saddle having a depending saddle strap, a flank strap having a tightening strap including a ring carried thereby, and a coupling carried by the saddle strap and comprising a ring engaging keeper movable into and out of a securing position, a latch movable into and out of position for securing said keeper in its operative position and urged towards its securing position, means urging said latch towards a keeper-engaging position, a latch-engaging member, and means for moving said member in a direction to move the latch to its releasing position including mechanism for controlling the time at which the said member operates to move the latch to a releasing position.

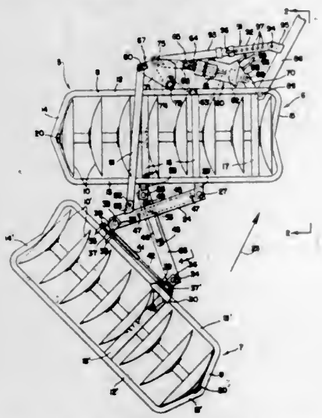
2,608,813
OFFSET DISK HARROW LINKS
William R. Frank, Bell, Calif., assignor to John Deere Killefer Company, Los Angeles, Calif., a corporation of California
Application February 2, 1948, Serial No. 5,785
2 Claims. (Cl. 55—83)



1. An offset disk harrow comprising a pair of tandem disk gangs, each gang including a generally horizontal frame, said gangs being normally disposed in oppositely angled relation and with the disks of one gang facing in one direction and the disks of the other gang facing in the generally opposite direction, whereby in operation one gang tends to tilt in one direction and the other gang tends to tilt in the other direction, and connecting linkage acting between said gangs so as to hold said gang frames substantially in the same generally horizontal plane comprising a pair of cross link members pivotally connected at their opposite ends to said gangs

at laterally spaced points, each of said link members comprising a generally U-shaped rigid bar having generally vertically disposed pintle sections, and bearing sleeve members on said gang frames for receiving said pintle sections, one of said U-shaped bars being arranged so that its central portion lies in an upper position with the pintle sections extending downwardly therefrom and the other of said bars being arranged so that its central portion lies in a lower position with its pintle sections extending upwardly therefrom, whereby said rigid bars may cross with clearance between their central portions while said sleeve members may be connected to said gang frames in substantially the same vertical relation with respect to said frames.

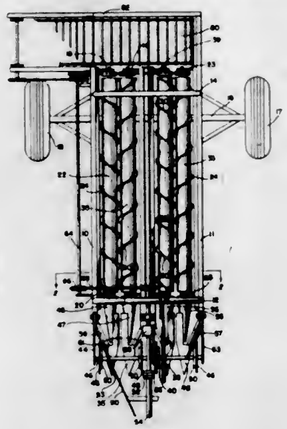
2,608,814
OFFSET DISK HARROW
William R. Frank, Bell, Calif., assignor to John Deere Killefer Company, a corporation of California
Application August 8, 1946, Serial No. 689,211
11 Claims. (Cl. 55—83)



1. A disk harrow comprising a pair of front and rear disk gangs, means including a pair of crossed links for flexibly connecting said gangs together, said links being pivotally mounted on one of said gangs and having clamps at their opposite ends, respectively, whereby each clamp is slidable laterally on the other gang relative thereto and relative to the other clamp but fixable relative thereto in adjusted position, a hydraulic motor mounted on said harrow, and means connecting said motor with one of said pair of links and operable to slide the rear end of one of said links relative to said rear gang by power from said motor with one of said clamps loosened and to angle said gangs relative to each other with both of said clamps tightened.

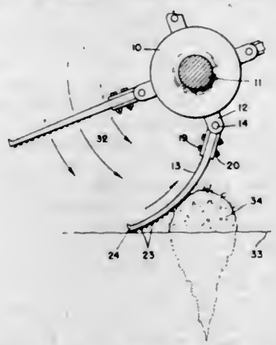
2,608,815
MACHINE FOR HANDLING SUGAR BEETS, POTATOES, AND THE LIKE
Gerald O. Graaff, Ellensburg, Wash.
Application November 29, 1948, Serial No. 62,517
3 Claims. (Cl. 55—106)

1. In a machine to receive and convey and process sugar beets and the like immediately following their removal from the ground, the construction, comprising: a frame adapted to be moved over the ground; a juxtaposed pair of elongated screw elements mounted in said frame to extend longitudinally of the direction of travel thereof and with their rear ends slightly above the ground surface, the axes of said screw elements lying on a common line in side projection; each said screw element consisting of a cylindrical body having spirally arranged therearound along its length an outstanding rib of materially lesser height than the diameter of the cylinder and having a lead greater than the cylinder diameter; the ribs of said pair of screw elements diverging rearwardly when viewed from above; said pair of screw elements being arranged so



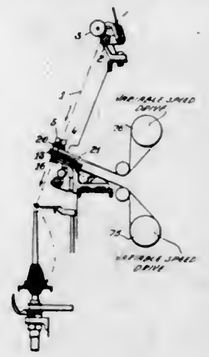
that each has an opposite lead to that of the other of the pair; means for counter-rotating said screw elements so that their opposed faces are moved downward relative an upright plane therebetween; and means to dig sugar beets from the ground and to immediately following their removal deliver them upon said screw elements whereby the beets and the like are conveyed rearwardly by the screw elements from the point of delivery and are at the same time scoured and abraded in a manner to remove surface dirt and the like.

2,608,816
FLEXIBLE BEATER FOR FLAILING MACHINES
John Lembke, Wilder, Idaho, assignor to Olson Manufacturing Company, Boise, Idaho, a corporation of Idaho
Application August 2, 1950, Serial No. 177,304
1 Claim. (Cl. 56—121.4)



A rotary beater for a flailing type beet topper supported above the ground with its axis substantially parallel thereto, said rotary beater including flexible flails extending outwardly and radially therefrom, each of said flails having spaced bead-like projections extending outwardly and laterally from the front side thereof, said bead-like projections being arranged in transverse and vertical rows and tapering outwardly so that the projections increase in length toward the outer ends of the flail, the length of each flail being longer than the distance of the rotary beater from the ground, so that the outer end thereof strikes the ground before the flail contacts the vegetable or beet tops in order to break the impact and be arcuately bent to cause the projections to be drawn upwardly and across the adjacent side and top of the vegetable with progressively increasing filing action.

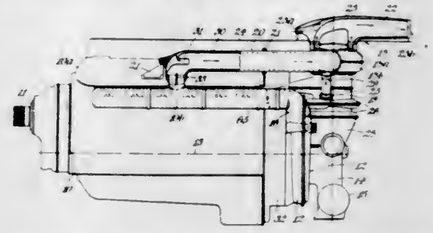
2,608,817
SPINNING MECHANISM
Herbert Reinicke, Ebingen, Germany
Application November 29, 1950, Serial No. 198,055
In Germany November 30, 1949
13 Claims. (Cl. 57—51)



1. In a mechanism for the simultaneous twisting and drafting of fibrous materials; a body having a bore therethrough, means supporting said body for rotation on the axis of said bore, drafting means carried by said body for rotation therewith and adapted for being driven to draw fibres on the axis of the said bore, independent drive means for said body and draft means, and means in the drive means for said draft means providing for cyclic variation of the speed of said draft means for imparting a longitudinal vibration to the fibres being drafted to produce a uniform product.

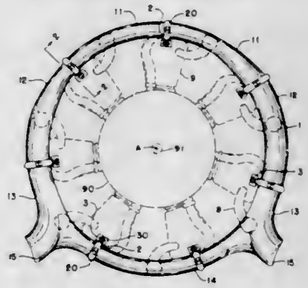
2,608,818
INTERNAL-COMBUSTION ENGINE WITH SUPERCHARGER DRIVEN BY AN EXHAUST TURBINE
Thomas Shelley, Breaston, Derby, and Nelson Hector Kent, Allestree, Derby, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application March 8, 1949, Serial No. 80,122
In Great Britain March 11, 1948
1 Claim. (Cl. 60—13)

A power plant comprising in combination a reciprocating internal combustion engine; a turbine; an exhaust duct between said engine and said turbine to lead the exhaust gas from said engine to said turbine; a bypass exhaust gas duct leading from said engine to atmosphere; controllable valve means to control the amount of exhaust gas flowing from said engine through said bypass duct directly to atmosphere; a supercharging compressor; a first drive connection between said turbine and said supercharging compressor; a second drive connection between said engine and said supercharging compressor; a change speed gear in said second drive connection; an auxiliary compressor having an inlet to atmosphere; a discharge from said auxil-



iary compressor leading to said exhaust duct; a third drive connection between said turbine and said auxiliary compressor; and a freewheel device in said first drive connection arranged to permit said supercharging compressor to overrun said turbine and said auxiliary compressor.

2,608,819
COLLECTOR RING MOUNT
James R. Moorehead, Renton, and Richard S. Reinhold, Seattle, Wash., assignors to Boeing Airplane Company, a corporation of Delaware
Application September 27, 1946, Serial No. 699,834
9 Claims. (Cl. 60—29)

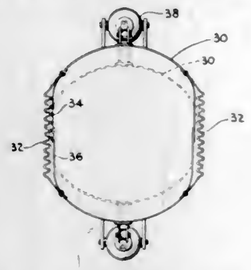


1. A generally circular exhaust collector ring for radial engines, said ring having inlets from the several engine cylinders, a plurality of generally axially extending mounting arms angularly disposed about the engine's axis, and each pivotally mounted upon the engine for movement substantially in a radial plane, and means having freedom of movement under the influence of forces acting radially of the engine's axis, connecting the swinging end of each arm with said collector ring.

2,608,820
VARIABLE AREA TAIL PIPE FOR JET ENGINES
Henry A. Berliner, Washington, D. C., assignor to Engineering & Research Corporation, Riverdale, Md., a corporation of Maryland
Application August 30, 1948, Serial No. 46,729
1 Claim. (Cl. 60—35.6)

A tail pipe for a jet propulsion unit, said pipe having outwardly arcuate top and bottom walls connected by two substantially parallel side walls, corrugations formed in said side walls which extend longitudinally of the tail-pipe, means for forcing the two arcuate walls toward each other to deform the tail pipe by folding the corruga-

tions, and means disposed inwardly of the tailpipe for shielding the corrugations from the flow of gases within the pipe comprising upper and lower plates which are respectively attached to



the upper and lower arcuate walls of the pipe at each side thereof and which overlie the corrugations and the ends of which overlap along the horizontal center line of the pipe.

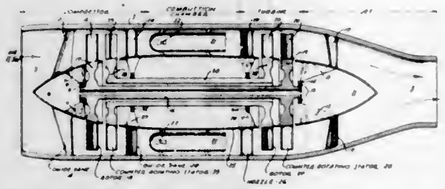
2,608,821

CONTRAROTATING TURBOJET ENGINE HAVING INDEPENDENT BEARING SUPPORTS FOR EACH TURBOCOMPRESSOR

Eugene L. Hunsaker, Manhattan Beach, Calif., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y., a corporation of New York

Application October 8, 1949, Serial No. 120,247

1 Claim. (Cl. 60—35.6)



A gas turbine combination comprising an outer casing having an air entrance aperture and a jet aperture, a nose cone in said entrance aperture, a plurality of guide vanes extending from said casing and supporting said nose cone, a forward bearing supported by and within said nose cone, a tail cone in said jet aperture, a plurality of struts extending from said casing and supporting said tail cone, a rear bearing supported by and within said tail cone, an inner rotor journalled in said forward and rear bearings, a first compressor disc on the forward end of said inner rotor, a plurality of blades of compressor rotor type on said first compressor disc, a second turbine disc on the rear end of said inner rotor, a plurality of blades of the turbine stator type on said second turbine disc, a shroud positioned in said casing between said discs, supports extending from said casing and holding said shroud in said casing to provide an annular space between said shroud and casing, front and rear shroud bearings inside of and supported by said shroud, an outer rotor supported mechanically independent of said inner rotor and mounted in said latter shroud bearings to rotate concentrically with and spaced from said inner rotor, a second compressor disc on the forward end of said outer rotor, a plurality of blades of the compressor-stator type on said forward disc, said latter blades being positioned adjacent and to the rear of the blades on said first compressor disc, a first turbine disc on the rear end of said outer rotor, a plurality of blades of turbine rotor type on said first turbine disc, said latter blades being positioned adjacent and forward of the blades on said second turbine disc, and combustion chamber means in the annular space between said shroud and said casing.

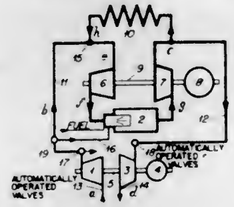
2,608,822

METHOD OF OPERATION AND REGULATION OF THERMAL POWER PLANTS

Vladimir H. Pavlecka, Pacific Palisades, and Frederick Dallenbach, Inglewood, Calif., assignors to Turbolectric Corporation, Beverly Hills, Calif., a corporation of California

Application October 7, 1944, Serial No. 557,654

11 Claims. (Cl. 60—39.03)



8. A method of starting a first compressor-turbine set with the aid of a compressor of a second compressor-turbine set, said first and second compressors, and said first turbine, being connected to a combustion heat generator, said method including the steps of applying an external power to said second set for driving said second set, precompressing an ambient fluid in said second compressor, discharging the entire precompressed fluid directly into said combustion heat generator, feeding into and burning fuel within said pre-compressed fluid in said combustion heat generator for producing products of combustion, discharging all of said products of combustion into said first turbine, expanding all of said products of combustion through said first turbine whereby said products of combustion appear as exhaust gases on the output side of said first turbine, cooling all of said exhaust gases and then conveying all of the cooled exhaust gases to the input side of said first compressor, recompressing the cooled exhaust gases in said first compressor while driving it from said first turbine, and discharging the recompressed exhaust gases from said first compressor directly back to said combustion heat generator.

2,608,823

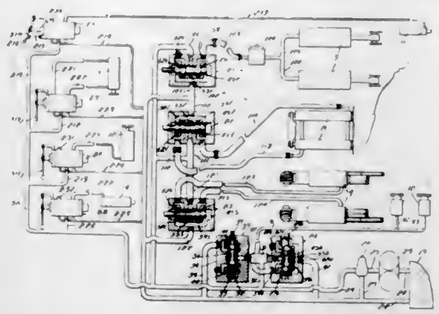
HYDRAULIC CONTROL APPARATUS FOR ADJUSTING AND LOCKING MECHANISM

Harold F. Silver and Clarence R. Steele, Denver, Colo., assignors to Joy Manufacturing Company, a corporation of Pennsylvania

Continuation of application Serial No. 750,982, May 28, 1947. This application November 28, 1949, Serial No. 129,812

18 Claims. (Cl. 60—52)

8. In a valve mechanism for controlling a hydraulically operated apparatus including a pressure fluid motor operated swinging apparatus, a pressure fluid operated locking apparatus operable on operating fluid supplied thereto to effect locking, and a pump for supplying operating fluid for said motor and for said locking apparatus, in combination, a normally open valve for relieving said pump of back pressure, means movable to effect closing of said valve, a valve for controlling said motor, a normally open valve for controlling said locking apparatus, means for moving said second mentioned valve to effect swinging operation of said swinging apparatus, means movable to close said third mentioned valve to interrupt operating fluid supply from said pump to said pressure fluid operated locking apparatus, and means moved by movement



of said second mentioned valve moving means to effect swinging operation to effect actuation of said means movable to effect closing of said first mentioned valve and said means movable to close said third mentioned valve to effect closure of both of said first and third mentioned valves.

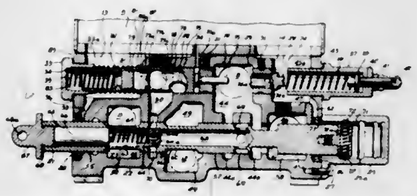
2,608,824

CONTROL VALVE

Hall Kirkham, Cleveland Heights, Ohio, assignor, by mesne assignments, to The New York Air Brake Company, New York, N. Y., a corporation of New Jersey

Application August 27, 1947, Serial No. 770,882

14 Claims. (Cl. 60—52)



1. A hydraulic control device comprising a casing having an inlet port, two outlet ports, a return port, and two discharge chambers, formed therein; a flow control valve interposed between one discharge chamber and the return port; and a settable distributing valve formed to selectively interconnect the several ports and the discharge chambers as follows: to connect the inlet port selectively to either outlet port or both outlet ports; to connect either outlet port to the discharge chamber when the other outlet port is connected to the inlet port, and connect both outlet ports to said one discharge chamber when the inlet port is connected to both outlet ports and to simultaneously isolate the other discharge chamber; means responsive to pressure in the inlet port to open the flow control valve; damping means operative to retard opening movement of said valve during discharge flow of liquid past the same; and biasing means tending to close said valve.

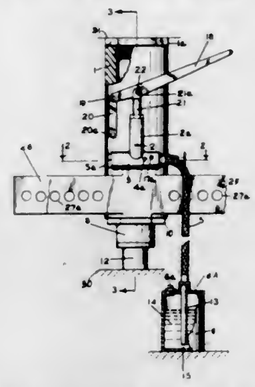
2,608,825

HYDRAULIC JACK

Theodore A. Cheesman, Kalama, Wash.

Application September 22, 1947, Serial No. 775,522

2 Claims. (Cl. 60—52)



1. A portable hydraulic jack comprising in combination a working cylinder, a ram reciprocable in said working cylinder, a pump cylinder formed integral with the outer wall of the working cylinder, a valve chamber integral with the outer wall of the working cylinder and extending laterally of the pump cylinder, at the lower end thereof, a communicating passage between said working cylinder and said pump cylinder by way of said valve chamber, a pump piston in said pump cylinder, a normally closed spring biased inlet pump valve in one end of said valve chamber which opens inwardly with respect to that end of the valve chamber, a normally closed spring biased outlet pump valve in said working cylinder and pump cylinder communicating passage and located in the opposite end of said valve chamber to open outwardly with respect to that end of the valve chamber, a bleeder port in said working cylinder forming a communicating passage between the working cylinder and the valve chamber outwardly of the inlet pump valve, an independent portable reservoir free of the working cylinder, and a flexible connection between said reservoir and the inlet end of said valve chamber whereby said reservoir may be retained in a vertical position regardless of the position of said working cylinder.

2,608,826

COMPOUND HYDRAULIC MOTOR WITH TELESCOPING PISTONS

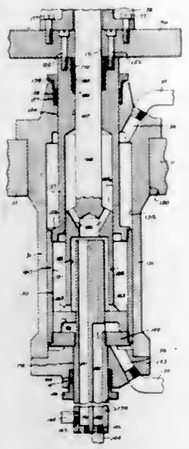
John Haller, Northville, Mich.

Application October 20, 1947, Serial No. 780,851

3 Claims. (Cl. 60—97)

1. A compound hydraulic motor comprising a hydraulic cylinder having an outer bore with axially spaced fluid ports communicating therewith, said cylinder having an aperture in one end thereof, a hollow outer piston reciprocably mounted in said outer bore and having an inner bore therein coaxial with said outer bore, an outer piston rod connected to said outer piston and extending externally of said cylinder, an inner piston reciprocably mounted in said inner bore and having an aperture therethrough, an inner piston rod connected to said inner piston and extending externally of said cylinder, and an elongated fluid feed member mounted on the central portion of said outer piston in coaxial relationship therewith and reciprocable bodily

therewith, said feed member extending inwardly through said inner piston aperture to the inner side of said inner piston and extending outwardly through said cylinder aperture externally

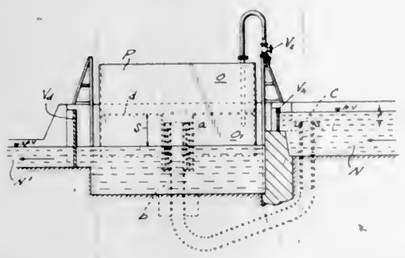


of said cylinder, said feed member having a pair of fluid passageways leading therethrough and opening into said inner bore on opposite sides of said inner piston.

2,608,827

FLOATER LOCK CHAMBER

Andělosiav Černocký, Prague, Czechoslovakia
Application February 27, 1948, Serial No. 11,731
In Czechoslovakia August 10, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires August 10, 1965
4 Claims. (Cl. 61—8)

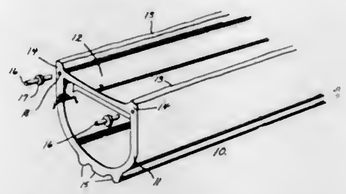


1. A floater lock system of the character described, including the combination, with a stationary lock chamber in which the water level is to be altered, of at least one additional stationary chamber or basin disposed adjacent to the lock chamber; fixed means separating the two chambers; a floater partly immersed in water in the stationary lock chamber and having a downwardly open air chamber and a separate upwardly open water chamber; and interconnecting conduit means extending between both stationary chambers and connected at one end to the water chamber in the floater and extending with the other end thereof into the additional stationary chamber or basin for empyting the water chamber of said floater into or filling it from said additional stationary chamber or basin.

2,608,828

CRADLE INVERT SUBSOIL DRAINAGE PIPE

Daniel B. Dimick, Wellesley, Mass., assignor to Dimick-Mosher Products Company, Boston, Mass., a corporation of Massachusetts
Application February 4, 1949, Serial No. 74,651
9 Claims. (Cl. 61—11)

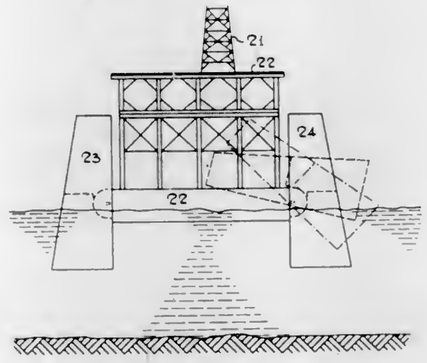


1. In sub-drainage pipe, adjacent pipe sections each having an imperforate cradle top wall along which seepage water is adapted to flow, spacing means between the ends of the pipe sections to space the ends of the sections apart to provide drainage openings down through which the water from the imperforate cradle top walls finds its way into the run-off sections, and means for urging the pipe sections toward one another upon said spacing means.

2,608,829

PORTABLE MARINE FOUNDATION

Richard P. Knapp, Toledo, Ohio, assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application March 30, 1948, Serial No. 17,903
1 Claim. (Cl. 61—46)

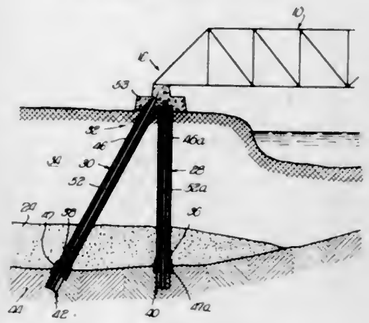


Marine foundation comprising a structure consisting of an adjustably buoyant hull supporting a working platform, a plurality of hollow pontoon members pivotally fixed to said structure, means to maintain said pontoon members in a first non-vertical position and a second vertical position, said hollow pontoon members being characterized by being trapezoidal in vertical cross-section, said pontoon members being further characterized by a length greater than the depth of the water in which the marine foundation is to be used, whereby on pivoting said members to the vertical position and on decreasing the buoyancy of the hull, the said members support the working platform above the water level.

2,608,830

FOUNDATION STRUCTURE

Harold P. Burrell, Noroton, Conn., assignor to Western Foundation Corporation, New York, N. Y., a corporation of Delaware
Original application June 13, 1946, Serial No. 676,482, now Patent No. 2,593,532, dated April 22, 1952. Divided and this application October 20, 1948, Serial No. 55,540
9 Claims. (Cl. 61—52)

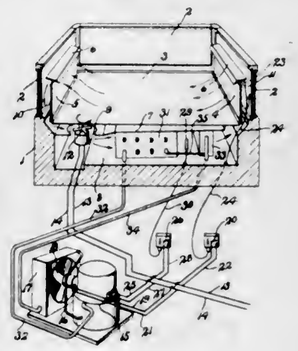


1. A foundation structure of skeletal triangular form comprising a cap member comprising a body of concrete, a plurality of rock socketed caissons comprising tubular casings, steel cores and a filling of concrete extending from the cap member to bedrock through the intervening soil, the cores and casings being anchored at their upper ends by the cap member, the casings extending into engagement with the rock, and the cores and the concrete filling extending into sockets cut into the rock below the casings, the concrete filling in the sockets bonding the cores to the walls of the rock sockets to sustain either tension or compression said caissons being rigidly connected together only at top and bottom and constituting the sole rigid connection between the cap member and bedrock.

2,608,831

TEMPERATURE AND HUMIDITY CONTROL FOR REFRIGERATED DISPLAY CASES

Melvin W. Steelman, Cobleskill, N. Y., assignor to Tyler Fixture Corporation, Niles, Mich., a corporation of Michigan
Application October 2, 1950, Serial No. 187,859
2 Claims. (Cl. 62—4)

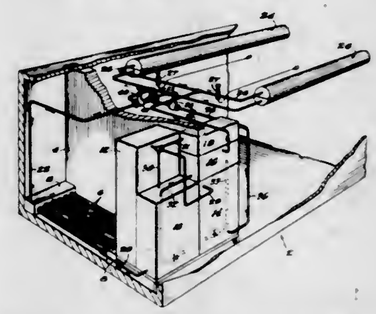


1. Means for controlling the temperature and humidity in an open top display case comprising means for circulating a current of air to pass under said case and across said case above its bottom, a cooling evaporator and a heating unit in said air current under the case in position to have air circulate first past the cooling evaporator and then past the heating unit, refrigerating mechanism for cooling the cooling evaporator, thermosensitive means located in the air current between the cooling evaporator and the heating unit for controlling operation of the refrigerating mechanism, and thermosensitive means in the air current beyond the heating unit in the direction of its flow for controlling operation of the heating unit.

2,608,832

REFRIGERATING APPARATUS

John E. Woods, Cohasset, Mass., assignor to Standard-Thomson Corporation, Boston, Mass., a corporation of Delaware
Application October 8, 1949, Serial No. 120,315
4 Claims. (Cl. 62—91.5)



1. A refrigerating system comprising a heat exchanger for cooling a fluid refrigerant, means for maintaining a supply of Dry Ice to cool the refrigerant, a container for Dry Ice to provide pressure for circulating the refrigerant, a chamber for receiving the circulated warm refrigerant, a pair of tanks, pipe connections between the tanks and chamber so disposed that part of the warm refrigerant flows into each tank, means for passing the refrigerant from one of the tanks through said heat exchanger, and a mixing valve for mixing the refrigerant thus cooled with warm refrigerant from the other tank to provide a cooling medium having a sufficiently high temperature to prevent excessive dehumidification of the space to be cooled.

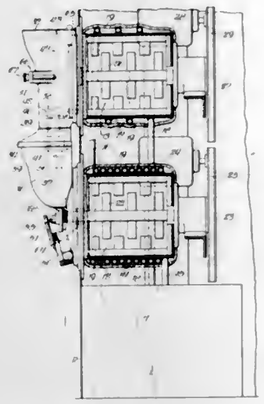
2,608,833

FROZEN CUSTARD MACHINE

Ben H. Woodruff, Chicago, Ill.
Application July 29, 1949, Serial No. 107,520
8 Claims. (Cl. 62—114)

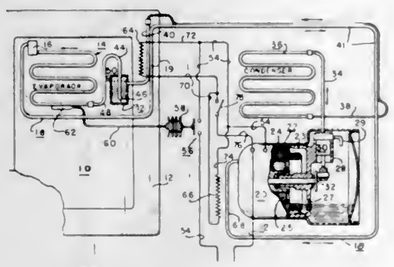
1. In a frozen custard machine including cabinet and refrigeration means within the cabinet, a freezing chamber within said cabinet for freezing a prepared mixture, a storage chamber for said mixture within said cabinet and positioned above said freezing chamber, a first coil positioned about said freezing chamber, a second coil positioned about said storage chamber, said coils being connected to said refrigeration means so that said chambers are cooled with said freezing chamber being cooled to a lower temperture than said storage chamber, removable cover means communicating with each of said chambers and having a passage therein for interconnecting said storage chamber and said freezing chamber, a metering valve in said passage for controlling the flow of mixture therebetween, said cover means having a discharge opening therein for remov-

ing frozen mixture from said freezing chamber, a gate removably closing said opening in said cover means, and means within said cover means interconnecting said gate and said metering valve for operating said metering valve to receive a



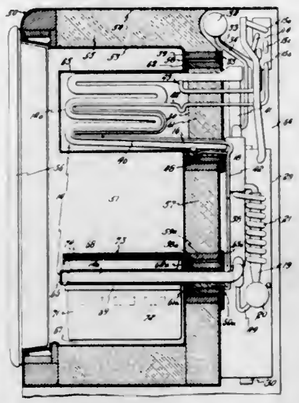
predetermined quantity of mixture from the storage chamber upon opening said gate and for discharging the predetermined quantity of mixture into said freezing chamber upon closing said gate.

2,608,834
REFRIGERATING APPARATUS
Graham S. McCloy, Springfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 21, 1950, Serial No. 157,252
3 Claims. (Cl. 62—117.55)



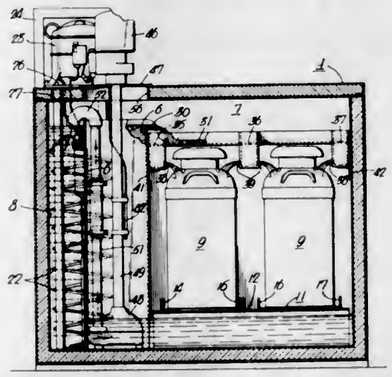
3. In refrigerating apparatus, the combination of a refrigerant circuit comprising, a compressor, a condenser for liquifying the refrigerant vapor compressed by said compressor, an evaporator, a liquid line including a restrictor for conveying refrigerant liquid from said condenser to said evaporator, and a suction conduit connecting said evaporator with said compressor, said suction conduit having a portion thereof in heat exchange relationship with a portion of said liquid line adjacent said evaporator, and means for applying heat to the refrigerant flowing in said circuit to effect defrosting of said evaporator, said means comprising a heating element disposed adjacent the heat exchanging portions of said liquid line and said suction conduit to vaporize at least a portion of the refrigerant flowing through said liquid line and said suction conduit.

2,608,835
MULTIPLE TEMPERATURE HOUSEHOLD REFRIGERATOR
Gunnar Axel Grubb, Stockholm, and Per Arne Backteman, Tulca, Sweden, assignors to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden
Application February 26, 1948, Serial No. 11,187
In Sweden February 28, 1947
15 Claims. (Cl. 62—119.5)



1. A refrigerator comprising a cabinet having the interior subdivided into compartments, absorption refrigeration apparatus having an inert gas circuit including an absorber and a low temperature cooling element and a higher temperature cooling element, said higher temperature cooling element being primarily effective to cool one compartment and said low temperature cooling element being primarily effective to cool another compartment which constitutes a freezing section, and structure including said low temperature cooling element which provides a top wall for said freezing section and also serves as a supporting surface upon which matter to be frozen may be placed, said low temperature cooling element being located at a level between the upper end of the absorber and the liquid level therein.

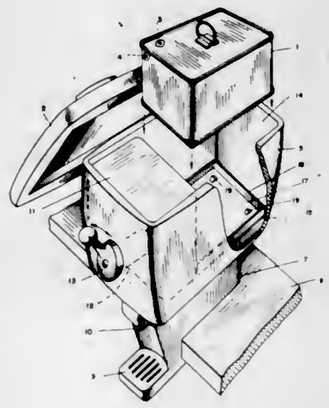
2,608,836
SIDE OPENING MILK COOLER
Raymond D. Pusey, Smyrna, Del., assignor to Wilson Refrigeration, Inc., Smyrna, Del., a corporation of Delaware
Application October 9, 1950, Serial No. 189,219
2 Claims. (Cl. 62—141)



1. In a milk cooler a cabinet having top, bottom and side walls and an upright partition dividing

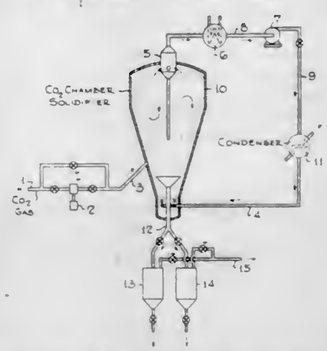
the interior thereof into major and minor compartments, an opening in a side wall of the cabinet affording access to the major compartment for insertion and removal of milk cans, said opening being spaced from the bottom of the interior of said major compartment so as to form within said compartment below said opening a water-tight reservoir, a door for said opening, an opening in the top of the cabinet above the minor compartment, a self-contained refrigerating unit mounted on the top wall at said opening and including a cooling element depending through the opening into the minor compartment, said unit being removable from the cabinet, and means for circulating a liquid cooling medium through the compartments successively and over the surfaces of the milk cans inserted in the major compartment, said circulating means including a distributing duct system in the top of the major compartment communicating with the upper part of the minor compartment so as to receive water from the latter by overflow, and means for transferring water from the reservoir in the bottom of the major compartment to the minor compartment.

2,608,837
BEVERAGE COOLER
Pardon K. Leland, La Salle, Ill., assignor to Elgel Inc., La Salle, Ill., a corporation of Illinois
Application January 17, 1950, Serial No. 139,053
6 Claims. (Cl. 62—148)



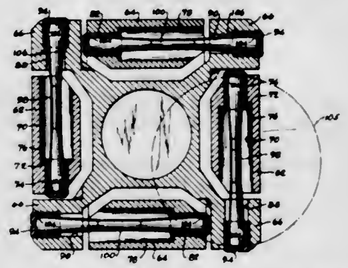
1. A cooling system for liquids comprising a conduit providing a tortuous path for the liquid to be cooled, which path lies wholly within a common plane, a refrigerant disposed adjacent said conduit and consisting of an independent sealed container having a frozen substance therein in which substance is a liquid at normal room temperature and has a freezing point below that of the liquid to be cooled, said container having a wall surface lying substantially parallel with the plane of said conduit, a solid frozen heat conducting buffer disposed between said conduit and the refrigerant container and in direct contact with each over their mutually facing surfaces, said buffer having a lower heat conductivity than said conduit and said container, and spaced heat conducting elements having higher heat conductivity than said buffer extending through said buffer between the conduit and said container and in heat conducting relation with each.

2,608,838
DRY ICE MANUFACTURE
Walter H. Rupp, Mountainside, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 30, 1949, Serial No. 102,269
4 Claims. (Cl. 62—170)



1. Process for the preparation of solid carbon dioxide which comprises introducing carbon dioxide gas at an intermediate point into a fluidized solidification zone, the temperature of which is maintained at the desired carbon dioxide solidification point by circulating a cooling stream of carbon dioxide gas therein, said carbon dioxide gas stream being withdrawn from the top of said solidification zone, cooled and reintroduced into said solidification zone at a point below the point of introduction of carbon dioxide feed gas.

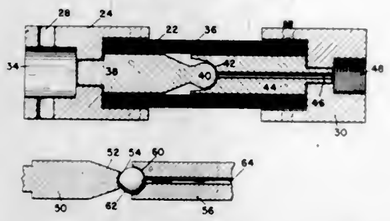
2,608,839
UNIVERSAL JOINT
Roland Chilton, Glen Rock, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application March 23, 1948, Serial No. 16,450
11 Claims. (Cl. 64—9)



1. A flexible coupling for a pair of shafts: said coupling comprising first and second members each adapted to be rotationally rigid with one of said shafts; said first and second members each having a pair of diametrically spaced portions on opposite sides of the coupling axis, said pairs of diametrically spaced portions being rotatively displaced 90° relative to each other; each of said portions having a pair of oppositely facing parallel overlapping recesses with the axis of each recess spaced from and disposed at right angles to the coupling axis; a member intermediate said first and second members and having recesses facing said first mentioned recesses; an elongate strut for each pair of facing recesses, each said strut having one end extending into a recess in one of said first and second members and having its other end extending into the

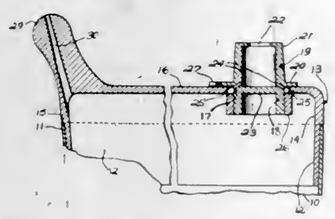
facing recess in said intermediate member with said strut overlapping the strut extending into the other recess in the associated one of said portions of said first and second members.

2,608,840
KNUCKLE JOINT FOR TIE BORING MACHINES
Fred J. Lahaie, Minneapolis, Minn., assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn.
Application May 29, 1948, Serial No. 30,143
2 Claims. (Cl. 64—11)



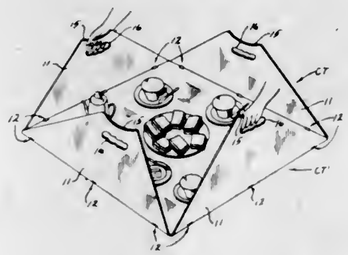
1. A coupling for tie boring apparatus comprising spaced alined metal ends, one end adapted to threadedly receive a shaft and the other end adapted to slidably receive a shaft, centering members threadedly connected to the end members and extending axially therefrom, with the free ends having concave seats therein, with one of the concave seats of greater depth than the other concave seat, the diameter of the centering members being less than the diameter of the end members, the ends of one of the centering members tapered, a substantially spherical-shaped member positioned between the ends of the centering members and in the concave seats in a ball and socket arrangement, a hollow reinforced hose member secured to the end members and being of less diameter than the end members and extending parallel to the longitudinal sides of the centering members, and one of the centering members having a lubricating channel extending therethrough.

2,608,841
DRINKING CUP FOR USE BY INFANTS AND INVALIDS SUCH AS CHAIR AND BEDRIDDEN PATIENTS
William W. Rice, Chicago, Ill.
Application November 16, 1950, Serial No. 196,062
2 Claims. (Cl. 65—13)



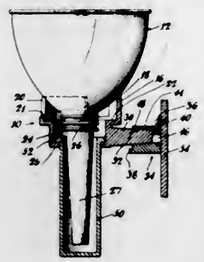
1. A drinking cup for the purposes herein set forth comprising a cup portion, a cap for said cup portion including a portion adapted to telescope frictionally into the open end of the cup, a nipple formed integral with the cap at one side thereof and providing a passage communicating with the cup, a rotatable air control valve frictionally carried by the cap at the side thereof opposite the nipple and having an opening formed therethrough adapted to be closed by the index finger of a hand supporting the cup, said valve having passages formed in its side walls and communicating with said opening, said top wall of the cap having a passage formed therein communicating with said opening of the valve through said valve passages, said telescoping portion of said cap being offset with respect to the side walls thereof to provide a shoulder limiting the insertion of said portion into said cup.

2,608,842
TABLE COVER AND TRAY
Samuel L. Greene, Waterbury, Conn., and Benjamin N. Greene, Miami Beach, Fla.
Application September 9, 1950, Serial No. 184,042
1 Claim. (Cl. 65—53)



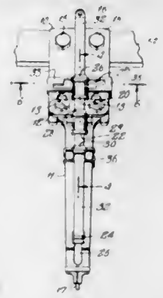
In a portable table cover and tray, the combination of a rigid flat square central base, and four similar rigid flat triangular corner flap portions flexibly connected to the four sides of said base and foldable flat thereagainst with the side edges of adjoining flaps in abutment, each of said flap portions having a concave cut away recess at its outer corner, and a curved elongated through opening adjacent thereto to permit grasping of a pair of opposite flaps at their corners, by the user when said tray is being carried.

2,608,843
RACK WITH DRIP CATCHER
John J. Kennedy, Richmond Hill, N. Y.
Application April 19, 1946, Serial No. 663,549
2 Claims. (Cl. 65—65)



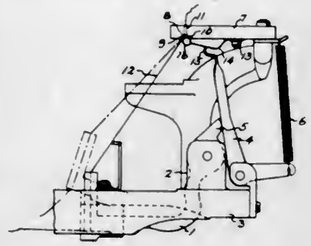
1. A support for holding one of a plurality of articles of various sizes comprising a hollow, rigid member open at both ends, an upper portion of said member for holding a large article, said upper portion including a vertically upstanding wall having at least one slot therein, a narrow portion of said wall forming a ridge at the bottom edge of said slot, an intermediate portion of said member for holding an article smaller than that adapted to be held in the upper portion, said intermediate portion including an annular ledge extending inwardly from the bottom of said wall, said smaller article being adapted to rest on said ledge and a handle on said smaller article being adapted to project through said slot and rest on said ridge, a second wall depending vertically from and integrally with the inner peripheral edge of said ledge, and a lower portion of said support for catching fluid from any one of said articles, said lower portion comprising a tubular element having a closed bottom adapted to be removably secured to said depending wall.

2,608,844
YARN CARRIER WITH TAKEUP DEVICE FOR HOSIERY MACHINES
Josef S. Karl, Athens, Ga.
Application July 21, 1950, Serial No. 175,119
10 Claims. (Cl. 66—126)



1. A carrier for a hosiery machine having an introductory guide at one end, a discharge tube at its opposite end, swinging takeup guides, another guide intermediate the takeup guides and the discharge tube, and a single support for all of said guides detachably mounted on said carrier.

2,608,845
YARN CLAMP
Charles F. Brown, Pawtucket, R. I., assignor to Hemphill Company, Pawtucket, R. I., a corporation of Massachusetts
Application October 11, 1951, Serial No. 250,879
4 Claims. (Cl. 66—145)



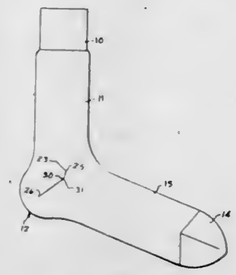
1. In a circular, independent needle, knitting machine, a yarn clamping mechanism comprising a clamping plate, a recess in said plate through which yarn may pass, a curved leaf spring attached to said plate in such a manner that when said spring is at rest it is spaced from the surface of said recess but is engageable therewith and thereafter, by a reduction in its curvature, it is adapted to clamp said yarn between said spring and a wall of said recess and means for forcing said spring into engagement with said recess and for elongating said spring by reducing its curvature.

2,608,846
DEVICE FOR AUTOMATICALLY STOPPING WARP KNITTING AND SIMILAR MACHINES FOR MAKING MESH GOODS IN CASE OF RUPTURE OF THREADS
Eduardo Seibert, Rivera, Uruguay
Application February 1, 1951, Serial No. 208,865
In Argentina November 29, 1950
4 Claims. (Cl. 66—163)



1. A device for automatically stopping warp knitting and similar machines for making mesh fabrics in case of rupture of one or more threads, comprising, a frame, a plurality of flat thread controlled plates of electrically-conductive material guided to slide vertically in said frame and forming a series, separator plates which are likewise conductors of electricity and whose thickness is substantially equal to the distance separating the threads arranged between said thread controlled plates, the said latter plates each being provided with a perforation in its upper part for receiving a thread and with an offset projection, said thread controlled plates and separator plates being included in one side of an electric circuit and a conductor bar insulatingly mounted on the said frame parallel to the series of thread controlled and separator plates, the said bar being connected to the other side of the said electric circuit.

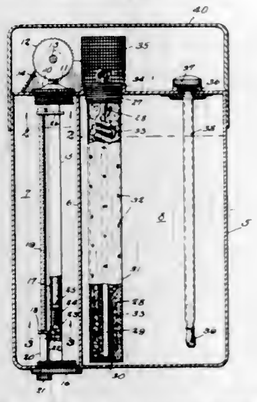
2,608,847
HIGH-BACK HEEL STRUCTURE FOR SEAMLESS HOSE AND METHOD
Raymond A. Torgersen, Burlington, N. C., assignor to Standard Hosiery Mills, Inc., Burlington, N. C., a corporation of North Carolina
Application August 6, 1951, Serial No. 240,534
16 Claims. (Cl. 66—187)



1. In a circular knit stocking, a heel in which there is present a plurality of gussets arranged in succession on each side of the heel and including a first gusset being progressively widened and having a suture along the side thereof adjacent the instep fabric, a second gusset interknitted at its upper edge with the first gusset and being progressively narrowed, a third gusset being progressively widened and interknitted at its widened side with the narrowed side of the second gusset to form a suture therebetween, a fourth gusset interknitted with the third gusset and being progressively narrowed to form a suture extending downwardly and forwardly at substantially right angles to and from the suture between the second and third gussets, the subsequent first circular course in the foot of the stock-

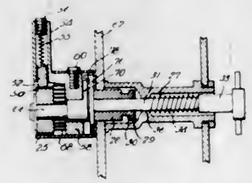
ing being interknitted with the last partial course in the fourth gusset and with the terminal loops of all the partial courses in the fourth gusset, and the first partial course in the first gusset as well as the terminal loops of all of the partial courses in the first gusset being interknitted with the last circular course in the leg of the stocking.

2,608,848
CIGARETTE LIGHTER
Fred A. B. Jones, Coral Gables, Fla.
Application February 21, 1950, Serial No. 145,555
1 Claim. (Cl. 67—7.1)



In a pocket lighter a hollow substantially rectangular body having top, bottom, end and side walls and a partition wall separating said body into a flint chamber and a fuel chamber, said top and bottom walls having aligned internal screw threaded openings extending therethrough and opening into the flint chamber, said top wall having an internally screw threaded wick cartridge receiving opening extending therethrough adjacent the partition wall and a filling opening extending therethrough remote from the partition wall, said last mentioned openings communicating with the fuel chamber, a closure for the filling opening, a plug having a central aperture extending therethrough threadedly engaging the threads of the wick cartridge receiving opening and closing said opening, a wind guard carried by the plug in concentric spaced relation to the aperture, said wind guard extending longitudinally from the plug on the side thereof remote from the fuel chamber, an elongated perforated cylinder carried by the plug and extending into the fuel chamber, an elongated bobbin carried by the cylinder and extending longitudinally therein in concentric spaced relation therewith, a wick encircling the bobbin in a series of convolutions and extending through the aperture in the plug, a filling of fibrous fuel absorbent material within the perforated cylinder and surrounding the convolutions of the wick in contact therewith, a flint guide threadedly engaging the threads of the opening in the top wall which communicates with the flint chamber, said flint guide having an axial flint receiving and guiding opening extending therethrough, a sparking wheel carried by the flint guide and intersecting the axis of the flint guiding opening on the side of the plug remote from the flint chamber, a plug threadedly engaging the threads of the opening in the bottom wall, a tubular flint magazine carried by the last named plug and extending into the flint chamber in axial alignment with the flint receiving opening, a threaded stem mounted for rotation in the last named plug and extending into the flint chamber in spaced parallel relation to the flint magazine, and a follower threadedly engaged with the threaded stem and extending into the flint magazine for engaging flint in said magazine and advancing it through the axial opening in the flint guide and into contact with the sparking wheel.

2,608,849
MINER'S LAMP
Grant Wheat and Arthur G. Davis, Marlboro, Mass., assignors to Koehler Manufacturing Company, Marlboro, Mass., a corporation of Massachusetts
Original application December 20, 1948, Serial No. 66,368. Divided and this application April 14, 1950, Serial No. 156,006
11 Claims. (Cl. 67—10.1)

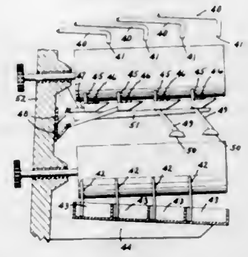


1. In a miner's flame safety lamp including a fount, a wick, a chimney encircling the wick, a spark igniter for the wick, in combination with a support for said igniter, one end of the support being slidably received in the fount, spring means cooperating with said support to hold the igniter normally in a position too low to ignite the wick, the igniter being movable into its lighting relationship to the wick, an operating element for the igniter positioned outside the lamp structure, and means limiting the movement of the igniter to approximately the position required for the lighting of the wick, said means comprising a cylindrical boss formed on the lower end of the support, said boss being formed with a flat surface lying in a plane parallel to the axis of the support, a cooperation part in the fount for slidably engaging with the boss and its flat surface, a second cylindrical boss provided at the lower extremity of the support and formed with a second flat surface complementary with the flat surface of the said first boss but occurring at an angle thereto, and a reduced intermediate neck portion formed on the support at points between the two said bosses to permit free rotative movement of the neck portion relative to the said cooperating part of the fount.

2,608,850
APPARATUS FOR THE LIQUID TREATMENT OF YARNS AND THE LIKE
Horace P. Fry, Jr., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application February 6, 1948, Serial No. 6,693
7 Claims. (Cl. 68—205)

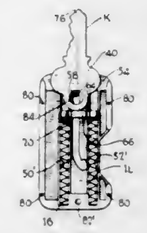
1. Apparatus for treating yarns with liquids comprising two rotors mounted, one at a higher level than the other, on axes inclined to the horizontal and vertical for advancing a yarn and the like through a path comprising a plurality of laterally spaced convolutions extending about the rotors, the axes of the rotors being inclined to one another, means for rotating the rotors about their respective axes, means adjacent the upper rotor for applying liquids to the convolutions

thereon in a treatment zone of the path, stripper means below the upper of said rotors and between it and the lower of said rotors comprising an arcuate edge in a plane transverse of the rotor axis at the end of the treatment zone toward the lower end of the rotor, said edge being closely adjacent to the rotor but out of contact



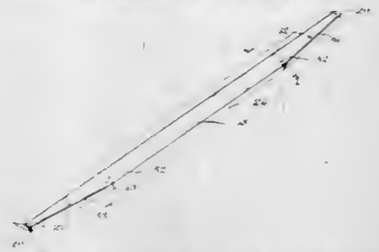
with the convolutions of yarn upon said upper rotor, and conduit means connected to the stripper means to receive liquid therefrom and having a discharge opening adjacent the lower rotor for directing such liquid to the lower rotor, whereby liquid gathering about the yarn convolutions at the bottom of the upper rotor is stripped therefrom and directed to the lower rotor.

2,608,851
KEY HOLDER
Samuel Leff, Brooklyn, N. Y.
Application November 29, 1949, Serial No. 129,965
9 Claims. (Cl. 70—456)



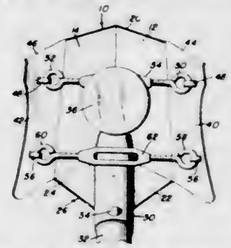
2. A key holder consisting of a housing comprising a pair of parallel spaced walls and means joining the side and inner edges of said walls to define an enclosed thin space, said housing being elongated in a direction from the outer end to the inner end thereof, said walls having a pair of registered longitudinally extending slots, a post, said post being slidable in said slots, a pair of elongated longitudinally extending compression coil springs within said housing, means to locate said springs on opposite sides of said slots, a bridle in said housing, means to guide said bridle for movement longitudinally of said housing, said bridle being positioned on the outer ends of said springs whereby said springs urge the bridle toward the outer end of the housing, said outer end of the housing being open, said post being disposed in the slots above the bridle, the inner ends of said slots having reaches extending laterally therefrom and in which the post is slidable, said reaches extending laterally a distance not less than half the width of the post, the tips of said reaches being closer to the spring in the direction the reaches extend than to the other spring.

2,608,852
FEATHEREDGE
Edward A. Whalen, Chicago, Ill., assignor to Wha-Lite Products, Chicago, Ill., a copartnership
Application July 9, 1949, Serial No. 103,885
5 Claims. (Cl. 72—136)



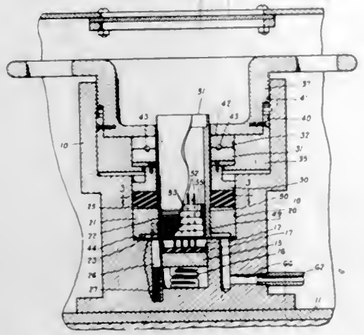
1. A lightweight metallic featheredge comprising a body member formed of a length of tubular light metal extrusion having three sides rectangular to each other and an oblique fourth side between the parallel sides to create and acute angled edge, said member being tapered on a plane substantially normal to the planes of the parallel sides and on a line oblique to the ends so as to remove a substantial portion of the ends of the side which is normal to the parallel sides as well as long thin triangular pieces from the end portions of the parallel sides producing continuous openings in the tapers and ends of the body member, closure members for said openings in the body member formed of light metal channel stock of a length to close the openings and having flanges spaced to fit closely between the parallel sides of the body member, each member being obliquely terminated at one end on the same angle as the body member bevel to fit therein and being bent intermediate its ends through the same angle as the angle between the taper and the end to define a taper closing portion and an end closing portion, and means for securing the free edges of the channel flanges inside the tubular cavity of the body member.

2,608,853
CORNER FORMING TOOL
George F. Schrepper, Algonac, Mich.
Application August 14, 1950, Serial No. 179,281
4 Claims. (Cl. 72—136)



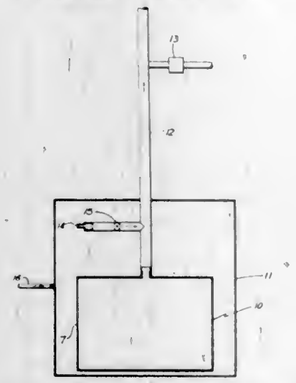
1. A corner forming tool comprising an elongated substantially V-shaped member including a pair of sloping side walls having inner edges joined together, a pair of elongated wall sections integrally formed with the outer edges of the side walls and inclined relative to said side walls, a substantially V-shaped deflector having a pair of sloping walls joined with the side walls of said member and having inner joined edges inclined relative to the joined inner edges of said side walls, and an adjustable connection between said elongated wall sections for adjusting the same relative to each other and to the side walls.

2,608,854
APPARATUS FOR TESTING CONNECTORS FOR LEAKAGE
Richard D. Gambrill, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 23, 1946, Serial No. 664,159
7 Claims. (Cl. 73—40)



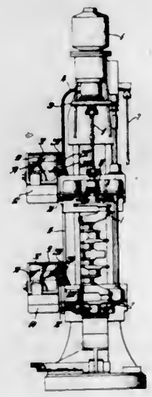
1. An apparatus for testing for leakage an article having a tube projecting beyond one end thereof, which comprises a container having an opening in one end thereof, an abutment resiliently supported within the container and adapted to engage the article under test, an elastic sealing member positioned upon the abutment and adapted to be compressed to grip in sealing engagement the periphery of the article under test, a gasket positioned below the abutment and adapted to seal the tube projecting beyond the end of the article when the sealing member is compressed, a plug adapted to be locked into the opening in the container and to compress the sealing member against the abutment, means for introducing gas under pressure into the container between the gasket and the sealing member, and means for indicating leakage into the article of the gas within the container.

2,608,855
METHOD AND APPARATUS FOR MEASURING TIGHTNESS OF VESSELS
Robert B. Jacobs, Rochester, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application June 14, 1946, Serial No. 676,813
4 Claims. (Cl. 73—40)



3. An apparatus for determining vessel leakage which comprises a gas-tight hood surrounding the vessel under test, an inlet in the hood for admitting gas therein, a vacuum line connected to said vessel, a calibrated reference leak connected to said vacuum line within the hood, a valve in the line between the reference leak and the outlet and an analyzer in the vacuum line outside the hood for measuring the concentration of a designated gas passing through the line.

2,608,856
UNBALANCE COMPUTER
Thomas C. Van Degrift, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 12, 1949, Serial No. 126,746
6 Claims. (Cl. 73—66)

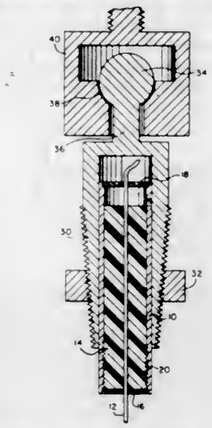


1. Apparatus for determining the metal to be removed to balance a rotating elongated dynamically unbalanced mass including; means for indicating the unbalance of the mass in magnitude and radial direction at two arbitrarily longitudinally spaced transverse planes, means for matching the indicated unbalance in the two arbitrary planes, said last named means including means for producing a plurality of signals corresponding in phase and proportional in magnitude to the balancing force which would be produced by metal removal at preselected points on the mass, and means for combining these signals so as to produce an indication matching said indicated unbalance to thereby determine the amount of metal to be removed at the various preselected points.

2,608,857
MOUNT FOR TENSILE TESTING SPECIMENS OF TEXTILE MATERIAL
Richard R. La Torre and Thomas W. George, Washington, D. C.
Application August 12, 1949, Serial No. 110,012
4 Claims. (Cl. 73—103)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

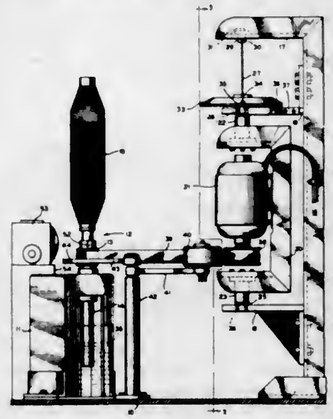
1. A mount for supporting under tension a sheet or strand specimen of textile material comprising, a longitudinal metal sheath means having at least a partially serrated internal surface and disposed substantially concentrically about a slightly tensioned, uniform cross-section portion of said specimen, the inside width of said sheath means being at least five times the thickness of said specimen and said sheath means having fixedly disposed therein cast, solidified cellulose

caprate surrounding and adhering to the said portion of said specimen along a length thereof



in the direction opposite to that of stress application at least 100 times its thickness.

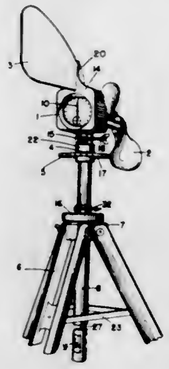
2,608,858
SPINDLE TESTING DYNAMOMETER
Edgar H. Granberry, Shawmut, Ala., assignor to West Point Manufacturing Company, West Point, Ga., a corporation of Alabama
Application February 8, 1950, Serial No. 143,055
10 Claims. (Cl. 73—136)



1. Means for measuring power input into a rotatable member, comprising a vertically disposed torsion element, driving means depending from and supported by said torsion element, a driving connection between said driving means and said rotatable member, and means for indicating the torsional deflection of said torsion element.

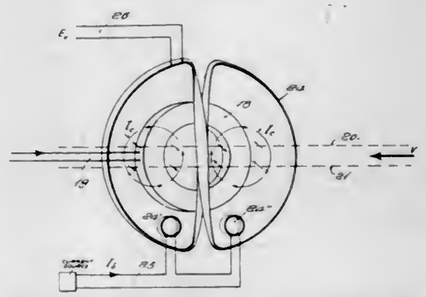
2,608,859
PROPELLER ANEMOMETER
Harcourt C. Sontag, Arlington, Va., Fidel Cordero, Washington, D. C., and Samuel H. J. Womack, Bethesda, Md.
Application February 6, 1948, Serial No. 6,574
3 Claims. (Cl. 73—189)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A portable anemometer comprising a tripod having a vertical tubular post mounted thereon, an adaptor cap rotatably mounted on the upper end of said post, a bracket detachably mounted on said cap and including a horizontal hollow portion, a vertical vane fixed to and extending from said hollow portion, a wind velocity meas-



uring unit slidably and removably mounted in said hollow portion, said unit including a propeller shaft extending horizontally opposite said vane and a propeller mounted on the outer end thereof.

2,608,860
APPARATUS FOR MEASURING VELOCITY
Robert A. Ramey and Walter Soller, Cincinnati, Ohio
Application June 9, 1947, Serial No. 753,490
6 Claims. (Cl. 73—194)



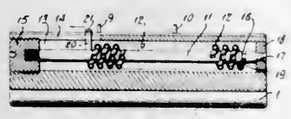
1. Means for electrically measuring the velocity of a body moving through an electrically conducting fluid comprising a pair of inductively related electrical windings disposed below the surface of the electrically conducting fluid through which said body moves, means for exciting one of said windings for establishing a magnetic field of force in the electrically conducting fluid and producing thereby a reactionary magnetic field operative to energize the other of said windings, a measuring system for detecting the reactionary effect upon said last mentioned winding, an observing device connected with said measuring system, said last-named winding being arranged substantially in the form of a figure eight with transverse portions thereof extending substantially diametrically of said first mentioned winding, a coil electrically coupled with each transverse portion of said figure of eight winding, a series circuit including said coils, and a source of current for compensating for voltage unbalance in said figure of eight winding.

2,608,861
COMBINED THERMOMETER AND STIRRING ROD
Frank P. Knipper, Rochester, N. Y.
Application October 7, 1948, Serial No. 53,180
1 Claim. (Cl. 73—343)



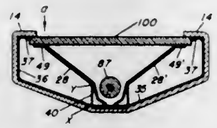
The combination of a thermometer tube and a casing therefor in the form of a solid elongated substantially cylindrical rod, blunt at one end and having a handle extension at the other, and adapted to be inserted in a liquid, said casing having a deep groove formed therein lengthwise thereof, said groove being capable of receiving the thermometer tube therein and terminating short of the blunt end and handle extension, elastic retainers slidable on said casing and adapted to retain and overlie the thermometer tube lying within said groove in the casing and engage with the ends of said tube to hold said tube in the groove of the casing, means near the blunt end of said casing adapted to engage with an end of said tube and hold that end of the tube in the casing, there being a deep annular groove in said casing adjacent the handle extension, said groove being adapted to engage the rim of a vessel and retain said handle against sliding below such rim.

2,608,862
TEMPERATURE INDICATOR DEVICE
John Miller, Elmhurst, N. Y.
Application May 1, 1947, Serial No. 745,327
12 Claims. (Cl. 73—343)



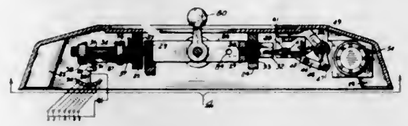
1. A temperature-responsive device, a heat conductive body provided with a bore, a helical bimetallic coil located in said bore, said body being provided with a linear slot communicating with the bore, one end of said coil being positioned in said slot for linear motion therein, and means operatively associated with the opposite end of said coil holding it against linear movement while permitting freedom of rotation whereby the coil is free for angular rotation in response to axial displacements caused by temperature changes.

2,608,863
INDUSTRIAL THERMOMETER
Paul F. K. Erbguth, Great Neck, N. Y., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application November 3, 1950, Serial No. 193,863
20 Claims. (Cl. 73—375)



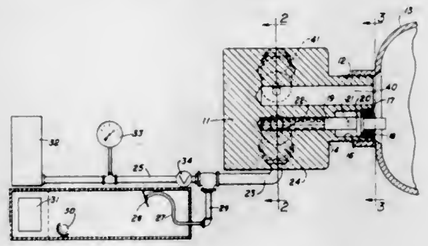
1. A thermometer case comprising a body having inturned sides forming an outer bearing surface for a transparent closure plate, a pair of spring clips laterally-disposed within and spanning the body, said clips having inturned ends diverging from the inner surface of the inturned body sides, a transparent closure plate removably disposed in said body and having edge-portions positioned between the inturned ends of the spring clips and abutting said bearing surface, and a resilient member extending longitudinally within the body, said resilient member having divergently-extending wing members resiliently urging the said closure plate against the inner surface of the inturned body sides.

2,608,864
GOLF PRACTICING MACHINE
Curtis R. Wagner, Denver, Colo., assignor, by mesne assignments, to Golf Unlimited, Inc., Denver, Colo., a corporation of Colorado
Application July 23, 1948, Serial No. 40,387
15 Claims. (Cl. 73—379)



1. A golf game practicing device of the type comprising a base, a gimbal, the outer frame of the gimbal having trunnions journaled in the base, the inner frame of the gimbal being journaled in the outer frame for rocking movement about an axis perpendicular to the trunnion axis of the outer frame, a shaft journaled in the inner frame for rotation about an axis parallel with the trunnion axis of the outer frame, an arm projecting radially from the shaft, positioned in the inner frame, a ball attached to the outer end of the arm, the axis of the shaft being displaced from the trunnion axis of the outer frame in the direction of the axis of the trunnions of the inner frame, whereby impact forces applied to the ball in directions displaced from the horizontal will rock the outer frame about its trunnions and components of said forces angularly displaced from a vertical plane perpendicular to the axis of the shaft will rock the inner frame about its trunnions, means comprising electrically operated indicators associated with the frames for visually indicating the extent of their angular displacement due to impact, means for registering the number of turns of the shaft due to each impact blow, means for returning the two frames to normal position after each operation, and electromagnetic means for returning the shaft and arm to normal position after each operation.

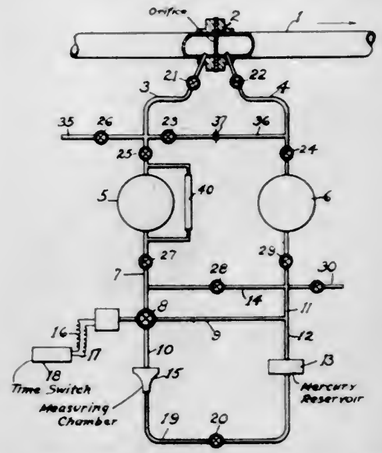
2,608,865
MANOMETER
Jack Robert Morgan, New York, N. Y., Nelson Eugene Alexander, Mount Airy, Md., and Eugene Alexander Comley, Minneapolis, Minn., assignors to the United States of America as represented by the Secretary of the Navy
Application May 26, 1948, Serial No. 31,788
1 Claim. (Cl. 73—391)



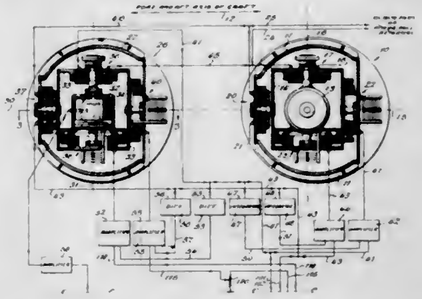
In a manometer comprising a Bourdon tube having a fluid therein and means for translating pressure flexing of said tube into visual indicia, the combination of a body having an end portion adapted to be attached to a vessel whose fluid pressure is to be measured, a chamber in said end portion opening outwardly and having its outer end internally threaded, a passage coaxially aligned with said chamber and extending from the bottom of the chamber inwardly of the body, means connecting said passage to said Bourdon tube, a plug threadedly engaged in the threaded end portion of said chamber, said plug being spaced from the bottom of said chamber and having a passage therethrough coaxially aligned with said first passage, said passages having equal cross-sectional areas, a piston having end portions slidably mounted in said first passage and the passage in said plug, respectively, and including an enlarged central portion slidably mounted in said chamber, the end portion of the piston slidably supported in said plug in operation being exposed to the interior of the vessel and the fluid whose pressure is to be measured, and means venting said chamber to the atmosphere whereby leakage of the fluid whose pressure is being measured into said chamber is vented to the atmosphere and thereby prevented from mixing with fluid in the Bourdon tube.

2,608,866
FLUID SAMPLING EQUIPMENT
Harry B. Breedlove and Henry G. Abbott, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application June 24, 1948, Serial No. 35,014
5 Claims. (Cl. 73—422)

1. Apparatus for sampling fluid flowing through a conduit comprising in combination, means for causing a pressure differential at a particular point of the conduit, a first branch fluid passageway connected to said conduit at two points, above and below said point of pressure differential, said first branch fluid passageway including a first pair of fluid reservoirs, and a second branch fluid passageway connecting to each of said first pair of fluid reservoirs, said second branch including a second pair of fluid reservoirs, and valves in said branch passageways operative in a first position to provide a fluid passageway through each of said fluid reservoirs and operative in a second position to provide a fluid passageway through said second pair of fluid reservoirs and one of the said first pair of fluid reservoirs, cutting-off any fluid passageway through the other of said first pair of fluid reservoirs.



2,608,867
CONTROL SYSTEM FOR GYRO VERTICALS
Spencer Kellogg, 2nd, Glen Head, Robert F. Hays, Jr., Syosset, and Clare E. Barkalow, Huntington, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application March 7, 1947, Serial No. 733,250
23 Claims. (Cl. 74—5.34)

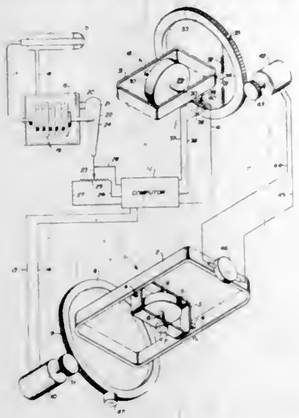


1. In a control system for aircraft gyro verticals, a gravity reference comprising a gyro compensated pendulum having a pendulum movable about an axis parallel to the athwartship axis of the craft, a gyro rotor mounted on said pendulum for spinning about an axis coincident with the axis of the pendulum, and a pick-off at the axis of said pendulum producing an output operable to erect the gyro vertical upon variation in the relative vertical positions of said gyro vertical and pendulum.

2,608,868
GYRO VERTICAL
Walter T. Buhl, Shaker Heights, Ohio, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application March 29, 1946, Serial No. 657,982
1 Claim. (Cl. 74—5.47)

A gyro vertical for use in aircraft comprising a rotor, inner and outer gimbals, a phantom ring adapted to move about the end of the outer gim-

bal ring, a pitch erecting switch secured to the inner gimbal, a roll erecting switch secured to said phantom ring and means associated with



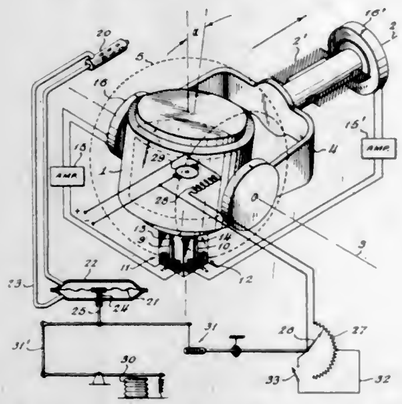
the gyro vertical for positioning the phantom ring and the roll erecting switch during turns of the aircraft.

2,608,869

INCLINED GYRO VERTICAL

Herbert H. Thompson, Manhasset, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application September 26, 1946, Serial No. 699,572
In Great Britain March 13, 1946
6 Claims. (Cl. 74—5.47)



1. A gyro-vertical for dirigible craft in which the gyro unit is forwardly inclined for eliminating turn errors, means responsive to the air speed of the craft, and means for varying the rotor speed thereof proportionally to variations in the response of said first means with air speed changes.

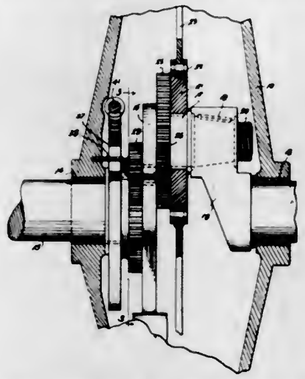
2,608,870

RADIAL ENGINE CRANKSHAFT MECHANISM

Robert D. Willis, Del Rio, Tex.

Application July 28, 1950, Serial No. 176,468
2 Claims. (Cl. 74—52)

1. A mechanism of the character described for use in connection with a radial engine having a casing, cylinders, and pistons in said cylinders; the provision of a crankshaft extending centrally through said casing, a crank pin for said crankshaft in said casing, cheeks interconnecting said crank pin and said crankshaft, one of said cheeks being in the form of a plate, a link rod hub revolubly mounted on said crank pin, piston rods pivotally connected with said hub at their inner ends and pivotally connected at their outer ends with said pistons, an annular gear affixed to said hub and surrounding said crank pin, a second annular gear of equal size to said first-mentioned annular gear surrounding said crankshaft, driving interconnection between said annular gears carried by said plate-like cheek, means for selectively and circumferentially positioning the



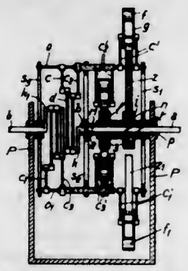
annular gear carried by said crankshaft, and means for limiting the movement of said last-mentioned annular gear, said positioning means including a worm wheel surrounding said crankshaft and affixed to the last-mentioned annular gear, a worm gear affixed to the inner wall of said casing and enmeshed with said worm wheel, and an operating shaft connected with said worm gear, said last-mentioned means including an arcuate slot formed in said worm wheel and a pin anchored in said casing and extending through said slot.

2,608,871

INFINITELY VARIABLE GEAR

Walter Zwick, Huemoz sur Ollon, Switzerland

Application February 3, 1949, Serial No. 74,319
In Switzerland December 24, 1948
11 Claims. (Cl. 74—114)



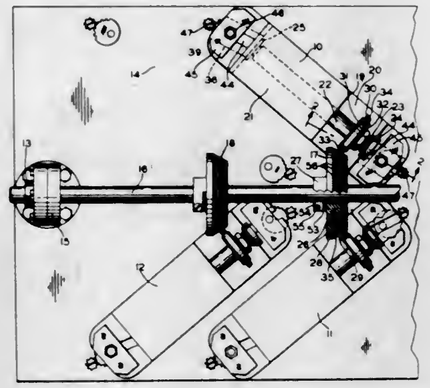
1. In an infinitely variable gear, a shaft, a crankshaft, rocking members with their axes of oscillation eccentrical to the axis of said shaft and arranged to rotate together with the first-mentioned shaft at the same speed, centrifugal weights linked to said rocking members, pivoting means rigidly connected with said centrifugal weights, link means connecting said rocking members with said crankshaft, a locking mechanism comprising a wheel, and coupling means linked on said pivoting means and coupled with said wheel to act on the latter.

2,608,872

ADJUSTABLE FRICTION DRIVE

Carl W. Larson, Minneapolis, Minn., assignor to Patent Management, Incorporated, Minneapolis, Minn., a corporation of Minnesota

Application August 1, 1950, Serial No. 176,943
5 Claims. (Cl. 74—191)



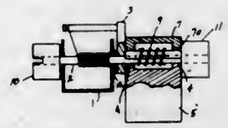
1. In combination a support, a frame mounted thereon, a driven shaft rotatably mounted in said frame and held from endwise movement relative thereto, a driving shaft rotatably mounted on said support and held from endwise movement relative thereto, and arranged in angular relation with respect to said driven shaft, a driven wheel on said driven shaft and having a conical surface, a driving wheel on said driving shaft and having a conical surface of greater longitudinal extent than that of said driven wheel and engaging said driven wheel, said frame having a base, two grooves in said base substantially parallel with the line of contact of the conical surfaces of said wheels, and forming guideways, eccentrics disposed within said grooves and rotatably carried by said support, said eccentrics engaging said guideways and guiding said frame for movement substantially parallel to the line of contact of the conical surfaces of said wheels, said eccentrics upon rotation moving said frame laterally of the direction of extent of said guideways.

2,608,873

ADJUSTMENT DEVICE

Robert B. Gray, Erie, Pa., assignor to American Meter Company, Erie, Pa., a corporation of Delaware

Application August 5, 1949, Serial No. 108,777
2 Claims. (Cl. 74—209)



1. An adjustment device comprising opposed tracks, a roller engaging one of the tracks, a pair of rollers engaging the other track and the first roller on the side of the first roller presented toward the other track, and tension spring means encircling the rollers and urging the rollers together, the diameter of the rollers being such that the pair of rollers are out of contact with each other.

2,608,874

BELT

Dale L. Waugh, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio

Application May 25, 1949, Serial No. 95,234
7 Claims. (Cl. 74—233)



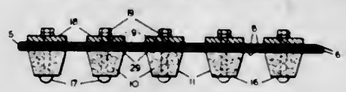
1. In a belt, a compression section consisting essentially of a plurality of rubberized fabric layers, teeth formed in said compression section, an intermediate section consisting essentially of a plurality of layers of rubberized fabric comprising at least one layer of bias-laid fabric having at least 25% of nylon in the yarn from which the fabric is woven positioned adjacent the compression section and over the toothed portions thereof to serve as a hinge section between the teeth, and a tension section comprising a plurality of layers of rubberized fabric.

2,608,875

POWER TRANSMISSION BELT

Thomas Ellison and Sydney George Leuty, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain

Application November 2, 1949, Serial No. 125,006
In Great Britain November 24, 1948
1 Claim. (Cl. 74—236)



An endless V-belt comprising a band of flexible material, a spaced series of bars secured by through fastenings transversely to one face of said band, the ends of said band being butted and joined by a piece of similar flexible material secured to the other face of said band by the same fastenings as for at least four of said bars, two on each side of the butt joint and, flat metal plates secured to said other face of said band by the same fastenings as the associated bars, said bars being of a uniform cross-section throughout their length and of a character suitable for frictional engagement with a pulley surface, the ends of said bars projecting beyond the edges of said band and having exposed end surfaces at an angle to the length of each bar for engagement with the conical faces of a V-pulley.

2,608,876

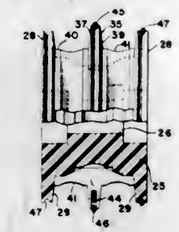
SPOOL FOR PHOTOGRAPHIC FILM PROCESSING MACHINES

William E. Miller, Hudson, Ohio, assignor to The Morse Instrument Company, Hudson, Ohio, a corporation of Ohio

Application July 10, 1950, Serial No. 172,969
7 Claims. (Cl. 74—240)

1. A spool for the uses and purposes set forth, comprising a main spool body, flanges on the ends of the spool body defining a main channel

adapted for guiding a relatively wide strip passing over the spool, a second narrow channel depressed below the base of the main channel adapted for guiding a relatively narrow strip passing over the spool, a removable insert seated



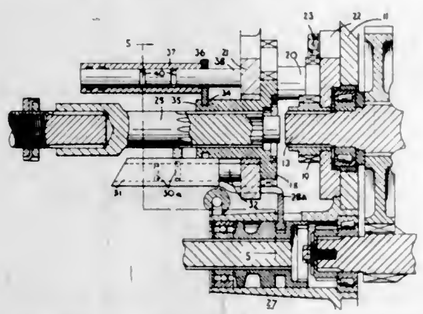
in the main channel and a centrally located rib on said insert which with the flanges form two channels for guiding relatively narrow strips passing over the spool when the insert is located on the spool.

2,608,877

TRAVEL-SPEED REDUCTION GEARING FOR TRACTORS

Arthur Clifford Howard, Upminster, England, assignor of one-half to Rotary Hoes Limited, East Horndon, England

Application October 7, 1949, Serial No. 120,106
In Great Britain November 5, 1948
2 Claims. (Cl. 74—343)



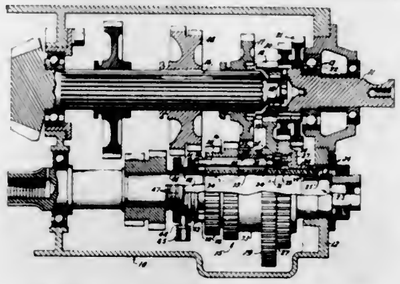
1. For use with a tractor having a transmission, an output shaft extending from the transmission and having a splined end, a differential gearing and an input shaft for said gearing aligned with and spaced in end to end fashion from said output shaft and having a spline end; an auxiliary transmission adapted to drivingly connect said shafts and including a pair of mounting plates fixed in longitudinally spaced fashion transversely of the shafts, a first gear slidably disposed on the spline end of said input shaft and having a sleeve end, one of said plates having an opening slidably supporting the sleeve end of the gear with the gear disposed adjacent the inner face of the plate and the other plate supporting the splined end of the output shaft and having an opening receiving the end, a second gear mounted on said end of the output shaft at the inner face of said plate, a layshaft journalled in said plates parallel with said input and output shafts, gears on said layshaft adapted to mesh with the first and second gears to provide a travel speed reduction, said first and second gears having interengageable end surfaces to couple the input and output shafts directly together, and means for shifting said slidable second gear axially of its shaft.

2,608,878

DUAL SPEED COUNTERSHAFT ASSEMBLY

Arthur J. Warsaw, Anchor, Ill.

Application July 17, 1950, Serial No. 174,200
10 Claims. (Cl. 74—375)



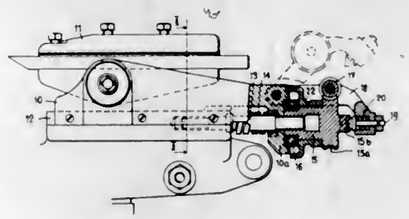
1. A dual speed countershaft assembly, comprising a driving sleeve adapted to be fixedly mounted on a countershaft, said sleeve being provided with a driving portion, a clutch ring slidable axially on said driving portion in rotatively fixed relation thereto, a member mounted on the countershaft in rotatively fixed relation to said sleeve on one side of the driving portion thereof, and means to shift said clutch ring axially on said sleeve comprising an axially movable element on the countershaft disposed on the side of said member opposite said sleeve driving portion, and an axially extending force transmitting rod secured to said element and clutch ring at opposite ends thereof, said member being provided with an axially extending opening for the reception of the intermediate portion of said rod.

2,608,879

ADJUSTING AND ENGAGING MECHANISM

Guillaume Ernest Mégel and Henri Mancia, Moutier, Switzerland, assignors to Usines Tornos Fabrique de Machines Moutier S. A., Moutier, Switzerland, a Swiss firm

Application October 16, 1950, Serial No. 190,303
In Switzerland October 18, 1949
2 Claims. (Cl. 74—405)



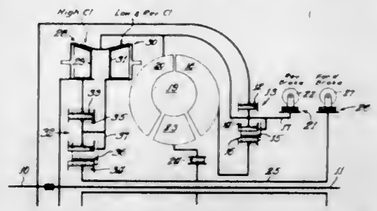
1. In an engagement and disengagement device for a worm wheel, the combination comprising a housing, a worm wheel journaled in said housing, a nut member coaxially rigid with said worm wheel, said nut member including an axial polygonal section provided with a central depression, a worm member adapted to engage the worm wheel, a carrier pivotally secured to the housing, said carrier pivotally carrying the worm in parallelism with its pivotal axis and including a bent portion registering with said nut member, a centering pin slidably carried by said bent portion adapted to engage said central depression in said nut when said worm member of said carrier engages said worm gear, and spring means urging said centering pin into said depression.

2,608,880

TRANSMISSION CONTROL

George E. Flinn, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application February 26, 1944, Serial No. 523,971
47 Claims. (Cl. 74—472)



1. In a transmission mechanism for an automotive vehicle, the combination of driving and driven shafts, means for completing a power train between said shafts including an electromagnet, a brake for the vehicle, a governor responsive to the speed of said driven shaft, and means under the control of said governor and said brake for breaking said power train when said brake is applied and the speed of said driven shaft is below a predetermined value, said last named means including a switch actuated by the brake when operated and a switch actuated by said governor at said predetermined speed, said switches cooperating to deenergize said electromagnet to break said power train.

2,608,881

STRAIGHT PULL BRAKE LEVER ASSEMBLY

Ray A. Sandberg, Waukegan, Ill., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan

Application December 30, 1947, Serial No. 794,647
8 Claims. (Cl. 74—503)



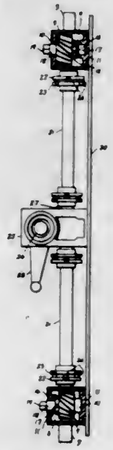
1. In combination in a straight pull brake lever assembly, a pull rod, a guide tube for the pull rod which is longer than the pull rod and has a longitudinal slot therein, means at the opposite end portions of the guide tube for attaching the tube rigidly to spaced portions of a vehicle so that the pull rod can be moved longitudinally within the tube, means for attaching a brake cable to one end of the pull rod, the opposite end of the pull rod having a handle projecting beyond the adjacent end of the tube, a longitudinal series of ratchet teeth on the rod, pawl means carried by the tube and engageable with the ratchet teeth for holding the pull rod in incremental brake setting longitudinal positions within the tube, the pull rod being rotatable to clear the ratchet teeth from the pawl means, and means for positively returning the pull rod to ratcheting rotary position after having been turned to pawl clearing position and including a member projecting laterally from the pull rod and engageable with an edge defining said slot, said member being movable longitudinally within said slot during longitudinal movements of the rod and having rotary connection with the rod so that the rod can be moved rotatably within the tube while said member maintains engagement with said edge.

2,608,882

DRIVING GEAR FOR ROUTE OR DESTINATION INDICATORS

George Hayes, Moortown, Leeds, England, assignor to G. H. Patents Limited, Leeds, England, a British company, and The Equipment and Engineering Co., Limited, London, England, a British company

Application August 28, 1950, Serial No. 181,815
In Great Britain September 29, 1949
7 Claims. (Cl. 74—665)



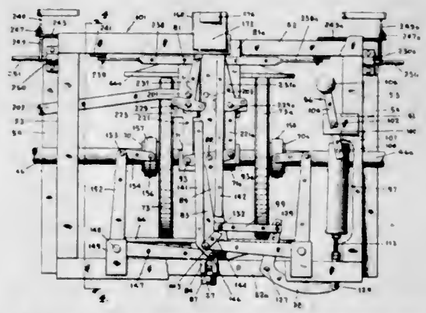
1. Driving gear for roller blind indicators including enmeshed driving and driven helical gear pinions, a driving shaft which rotates the driving pinion, a roller operating shaft at right angles to the first shaft, carrier means for said shafts, clutch means between the roller operating shaft and the driven pinion, and a bearer sleeve forming a bearing for said roller shaft and a mounting for the driven pinion, said sleeve having interlocking engagement at one end with said carrier means to be held against rotation.

2,608,883

VEHICLE POWER TRANSMISSION SYSTEM

Ummo F. Luebben, Omaha, Nebr.

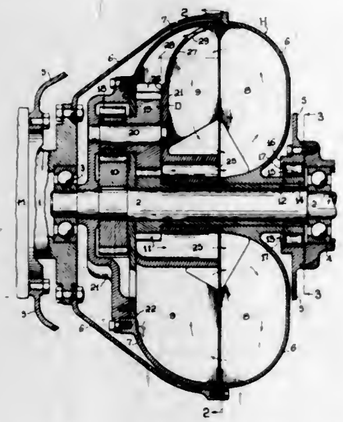
Application July 14, 1949, Serial No. 104,763
5 Claims. (Cl. 74—721)



1. A power transmission system comprising, a power shaft having a pair of spaced friction discs mounted thereon, a pair of co-axial drive shafts normal to said power shaft arranged between said discs, means supporting said drive shafts such that their adjacent ends are movable axially of said power shaft, a friction wheel mounted on each of said drive shafts for movement axi-

ally thereof, with each friction wheel being adapted to frictionally engage one or the other of said friction discs, means for axially moving said friction wheels including a pair of link systems corresponding to said wheels, with each link system having an operating lever extended axially of said power shaft at a position between said wheels, means movably supporting said levers for longitudinal movement, means connecting said levers for concurrent and relative longitudinal movement to provide for a concurrent and relative movement of said wheels axially of said drive shafts, a first actuating means for concurrently moving said operating levers, and a second actuating means for relatively moving said operating levers.

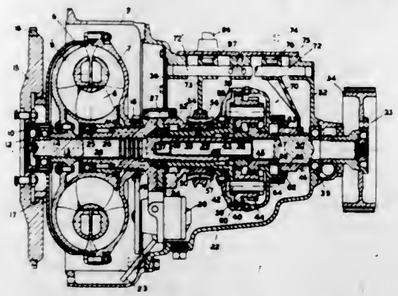
2,608,884
AUTOMATIC TORQUE CONVERTER
Harry Orner, Cleveland Heights, Ohio
Application July 15, 1948, Serial No. 38,845
14 Claims. (Cl. 74—730)



1. In a rotary power transmission device, the combination of a driving member, a driven member, an epicyclic gear train includng power transmitting meshed gears interconnecting said members at a predetermined gear ratio, a fluid mass rotatable with said members adapted to be displaced toward the axis of rotation by means actuated by the gears in said gear train, whereby a work load is imposed on said gear train by the centrifugal force of said fluid mass relative to its angular velocity, and means for increasing the angular velocity of said driven member in response to increases in force on the fluid mass by the centrifugal force relative to the increase of angular velocity thereon.

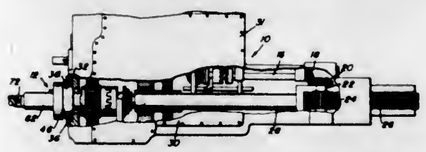
2,608,885
TRANSMISSION
Robert Lapsley, Berrien, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application February 9, 1948, Serial No. 7,183
4 Claims. (Cl. 74—732)

1. A transmission including a transmission housing, a fluid drive unit having a driven shaft, a first sun gear secured to said driven shaft, a transmission output shaft fixed against axial movement and journaled in said transmission housing, planet pinions meshing with said first sun gear, a ring gear and a sleeve surrounding said driven shaft, said sleeve carrying said planet pinions, said ring gear meshing with said planet pinions, means for locking said sleeve either to said housing or to said ring gear, a freely rotatable second sun gear journaled on said output shaft, said second sun gear adapted to engage with said planet pinions, means including a sleeve member axially shiftable on said output shaft arranged to be shifted in one direction from neutral position to a position coupling said



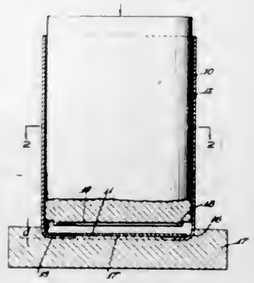
ring gear to said output shaft and in the opposite direction from neutral position to a position coupling said freely rotatable second sun gear to said output shaft, said ring gear having a brake drum portion of a smaller diameter than said ring gear, a brake operable to engage therewith, and interlocking means arranged to actuate said brake means prior to shifting of said axially shiftable sleeve member out of one coupling position and to maintain said actuation until shifted into its other coupling position.

2,608,886
AUTOMATIC DRIFT FOR BORING MILL SPINDLES
George E. Morse, Vandalia, and James K. Allbright, Dayton, Ohio
Application May 28, 1951, Serial No. 228,612
7 Claims. (Cl. 77—55)



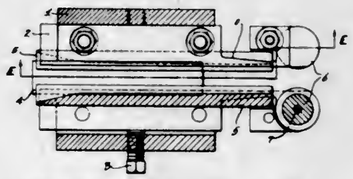
1. An automatic drift attachment for boring mill spindles including a spindle housing having a bearing rotatably supporting the front plate, the spindle being carried by the front plate and having a tapered bore adapted to removably receive the tapered shank of a tool therein, said attachment comprising a striker plate having an enlarged opening at the center thereof and adapted to be detachably connected to the front plate, a sleeve having a tapered end positionable in the tapered bore of the spindle, said sleeve being formed with a tapered bore for removably receiving the tapered shank of a tool, said sleeve having a transverse bore in communication with its tapered bore, said striker plate having a longitudinal, tapering slot formed in communication with the central opening thereof, and means slidably engaged in said transverse bore and tapered slot of the striker plate and engageable with the inner end of the tool, inward movement of the spindle and sleeve carried thereby effecting transverse movement of said means for disengaging the tool from the sleeve.

2,608,887
MEANS FOR COLD PRESSURE WELDING
Anthony Bagnold Sowter, Wembley, England, assignor to The General Electric Company Limited, London, England
Application February 4, 1950, Serial No. 142,389
In Great Britain March 28, 1949
6 Claims. (Cl. 78—89)



1. Pressure welding apparatus for lap joining a first member to an angular flange of a second member, said members consisting of pressure weldable metal, comprising first pressure welding tool means having a recess conforming to the bent formed by said flange and second member, to receive and contain said bent with said flange resting upon the bottom of said recess, and a cooperating welding tool for pressure welding said first member to said flange, said recess substantially restricting and diverting metal flow around said bent, to prevent outward splaying thereof during welding.

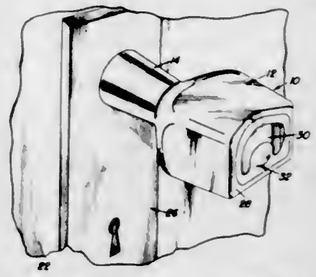
2,608,888
ROLLING MILL GUIDE
Sven Erik Malte Norlindh, Morgardshammar, Sweden
Application July 9, 1947, Serial No. 759,803
In Sweden June 1, 1939
2 Claims. (Cl. 80—51)



1. A rolling mill guide comprising in combination a foreguide and a pair of carriers at opposite sides respectively of the foreguide and extending beyond an end of the latter, the extending end of each carrier being tapered and having arcuate sides, and having a roller journalled between said arcuate sides and forming the terminal end of the carrier, the roller supporting ends of the carriers being resilient and flexible to afford relative divergent movements of the rollers under the wedging action of an interposed work piece.

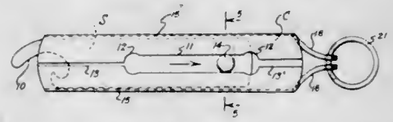
2,608,889
DOORKNOB WITH BOTTLE OPENER
Philip Krupin, Orange, N. J.
Application July 28, 1950, Serial No. 176,480
1 Claim. (Cl. 81—3.1)

As a new article of manufacture, a door knob comprising a shank and a head integral therewith, said head including a substantially flat outer end having a recess therein, and a bottle cap removing unit secured in the recess, the upper marginal portion of said outer end of the



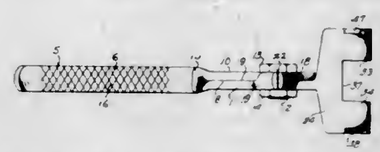
head and the adjacent portion of said unit being substantially synclinal and flush for centering the cap to be removed in said unit.

2,608,890
RESILIENT CASING WITH SLIDABLE TOOL
Albert Andrews, Fort Collins, Colo.
Application June 10, 1948, Serial No. 32,200
3 Claims. (Cl. 81—3.46)



1. A pocket tool or the like comprising a slide having a tool at one end; a casing for said slide, said casing being formed of resilient material and having a top and a bottom, and sides connecting said top and bottom, said top having a longitudinal slot extending from end to end thereof; and a button extending from said slide through said slot and adapted to be moved along said slot, said button having a greater width than the normal width of said slot at the point of contact therewith, so that said slot tends to be spread by movement of said button therealong, the resistance of said slot to movement of said button thus tending to maintain said slide in extended or retracted position.

2,608,891
CABLE HOLDER WITH GUIDE SLOTS
Ernest E. Haussler, Clifton, N. J.; Elsie K. Haussler administratrix of said Ernest E. Haussler, deceased
Application January 21, 1949, Serial No. 71,807
1 Claim. (Cl. 81—5.1)



A supporting tool for severing the armor from an armored cable comprising a pair of handles arranged in face to face relation and pivotally connected together adjacent one end thereof for movement toward and away from each other, a first jaw arranged transversely of one of said handles adjacent said one end thereof and having one end fixedly secured to the latter, a first pair of spaced jaw members arranged longitudi-

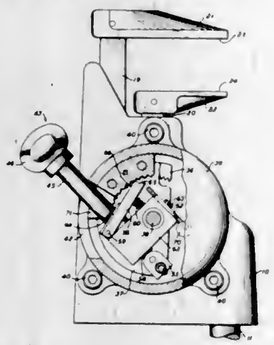
nally of said first jaw adjacent the other end thereof and each having one end integral with said first jaw, a second jaw arranged transversely of the other of said handles adjacent said one end thereof and having one end fixedly secured to the latter, a second pair of spaced jaw members arranged longitudinally of said second jaw adjacent the other end thereof and each having one end integral with said second jaw, each of the jaw members of said first pair being in spaced facing relation with respect to each of the jaw members of said second pair, there being a slot extending longitudinally through the other end of each of said jaw members and terminating at a point spaced from said one end of the associated jaw member, the slots in each pair of jaw members being at an angle with respect to each other, the slot of each jaw member being in alignment with the slot of the non-facing jaw member of the other pair and forming with the latter a guideway for a cutting blade.

2,608,892

APPARATUS FOR SUPPORTING CORES IN TOROIDAL COIL WINDING MACHINES

Malcolm O. Bennert, Methuen, and Norman C. Moore, West Newbury, Mass., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application February 10, 1949, Serial No. 75,644
5 Claims. (Cl. 81—17)



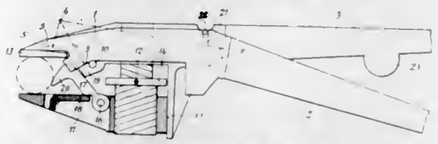
1. An article supporting apparatus comprising relatively movable clamping jaws, reciprocable rack-like elements for supporting the jaws, a pinion engaging the elements, a shaft supporting the pinion for rotation about its axis, a gear mounted on the shaft, a gear segment mounted for rocking movement about its axis and operatively engaging the gear, a hand lever having a threaded member positioned to engage and move the gear segment, a sleeve movable longitudinally thereon and a handle carried by the sleeve, a support mounted for rocking movement about the axis of the gear segment and having a threaded aperture to receive the threaded member of the hand lever, whereby movement of the hand lever to rock the support will rock the gear segment, to rotate the mechanism including the gear, shaft and pinion to move the rack-like elements and their clamping jaws to position the clamping jaws closely adjacent an article to be clamped therebetween, and means to hold the support in the rocked position, whereby rotation of the hand lever will cause the threaded member to move relative to the support to cause additional movement of the gear segment and the mechanism to move the rack-like elements and the clamping jaws to firmly clamp the article between the jaws.

2,608,893

JAW DESIGN AND ADJUSTING MEANS FOR PIPE TONGS

Bjarne Cranner, Holen, Ostfoldbanen, Norway

Application July 15, 1949, Serial No. 104,983
In Norway June 27, 1949
6 Claims. (Cl. 81—80)



1. In tube tongs, a movable eccentric jaw and a fixed jaw, means for adjusting the distance between said jaws, a handle carrying said fixed jaw, curved surfaces on said handle, correspondingly curved surfaces on said eccentric movable jaw for coaction with said curved surfaces on said handle, said curved surfaces having a common center line of curvature external of said tube tongs, said eccentric movable jaw being adapted to slide on said curved surfaces on said handle upon applying pressure to and turning said tube tongs when applied to a tube and to be eccentrically displaced with respect to said fixed jaw about said common center line.

2,608,894

WRENCH HANDLE DETACHABLY CONNECTIBLE TO RIGID-JAW TYPE WRENCH HEAD

Herbert G. Miller, Jr., and Donald W. Miller, Saginaw, Mich.

Application December 14, 1951, Serial No. 261,694
1 Claim. (Cl. 81—177)



In a wrench, a handle having one end portion formed with a transverse slot; a wrench head having a first recess at one end embracing said end portion of the handle, the other end of the head being of plane formation and having a second recess proportioned to engage an object to be rotated; a pin carried by the head and extending transversely between side walls of the first recess, said pin extending through the slot to provide means separably connecting the handle to the head for pivotal adjustment to selected angles relative to the plane of said other end of the head, the head having a series of notches formed in one side wall of the first recess and arranged radially of said pin; and a spring-loaded detent carried by and projecting laterally from one side of said end portion of the handle in spaced relation to the slot thereof, said detent extending in parallelism with the pin for engagement in a selected notch, to retain the handle in selected positions to which it is adjusted relative to the head.

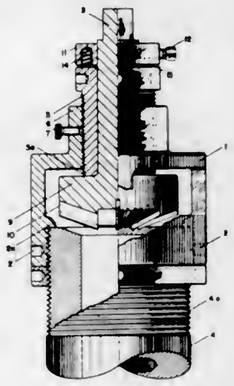
2,608,895

SURFACING METHOD AND APPARATUS

Merritt A. Culling, Louisiana, Mo., assignor to the United States of America as represented by the Secretary of the Interior

Application March 13, 1950, Serial No. 149,418
5 Claims. (Cl. 82—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A pipe refacing tool comprising in combination a cup-shaped member adapted to be secured to the end of a pipe, a threaded plug engaging a threaded section of said cut and adjustable therein, a shaft extending axially through said plug, cutting means attached to the end of said shaft adjacent the inner end of said plug member, a bearing surface on the inner end of said plug engaging a corresponding bearing surface on said shaft and cutter as-



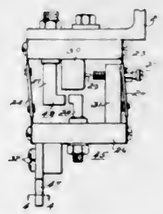
sembly for limiting the axial thrust of said shaft outwardly of said plug, a collar secured to said shaft adjacent the outer end of said plug and a spring member held in compression between said collar and the outer end of said plug for resiliently urging said shaft outwardly of said plug, thereby resiliently urging said bearing surfaces into contact with one another.

2,608,896

PATTERN TRACER ASSEMBLY

Claude E. Greene and Robert B. Lesher, Sidney, Ohio, assignors to The Monarch Machine Tool Company, a corporation of Ohio

Application June 13, 1947, Serial No. 754,553
4 Claims. (Cl. 82—14)



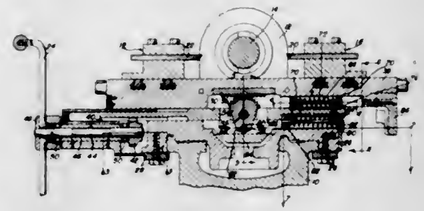
1. A tracer device comprising, a base, a first and a second finger, a first group of four leaf-spring legs dependently supporting said first finger from said base, a second group of four leaf-spring legs dependently supporting said second finger from said base with said second finger disposed closely adjacent said first finger, said spring legs defining only parallel planes to establish movement of said fingers only in a direction substantially perpendicular to said planes, said first and second fingers lying parallel and defining a given plane substantially parallel to said parallel planes, a single pole single throw normally closed switch actuable to an open position by movement of said first finger from said given plane, and a single pole double throw switch actuable by movement of said second finger from said given plane.

2,608,897

TOOL SLIDE

Theodore D. Foster and Ray A. Lauterbur, Sidney, Ohio, assignors to The Monarch Machine Tool Co., Sidney, Ohio, a corporation of Ohio

Application May 10, 1946, Serial No. 668,806
5 Claims. (Cl. 82—25)



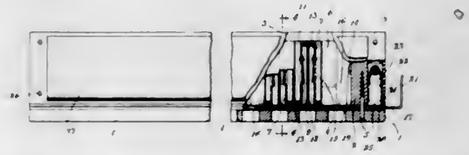
1. In a slide mechanism, a bed, a second slide reciprocably guided on said bed, a first slide reciprocably guided on said bed, yielding means interconnecting said second slide and said first slide with said bed for urging said slides and bed into a predetermined relative position, means for actuating said first slide in either direction, and means for actuating said second slide by the movement of said first slide comprising a gear segment pivotally mounted on said first slide, a rack on said second slide engaged by said gear segment, a projection on the other end of said gear segment, and a notch in said bed wherein said projection normally rests whereby when said first slide moves from its normal position carrying said gear segment pivot therewith, said projection is first restrained by said bed notch causing a velocity of said second slide greater than the velocity of said first slide, and upon release of said projection by said bed notch causing a velocity of said second slide substantially equal to the velocity of said first slide.

2,608,898

HARMONICA

Anthony La Paglia, New York, N. Y.

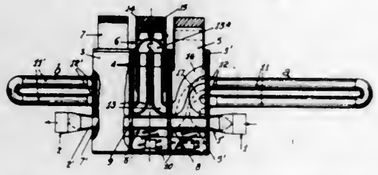
Application February 19, 1948, Serial No. 9,381
1 Claim. (Cl. 84—377)



A musical instrument comprising an elongated top member, end members secured to the extremities of the top member and extending downward therefrom, side plates connected to the top and end members, the bottom of the instrument being open between the end members and the plates, a fixed strip between the top member and the side plates, said strip having flanges along its opposite edges engaging said plates and said end members, said strip having two rows of longitudinal openings arranged in transverse pairs, and cells having partitions, said cells being substantially square in cross section and disposed side by side and extending in a double row between said plates from one end member to the other, each cell being in line with one of said openings and removable through the bottom, each cell also having one end adjacent said strip and the other end overlapped by the side plates at the bottom of the instrument, each cell having a part

of one end open at one side of its partition and the remaining part of said end on the other side of said partition closed and a part of its opposite end on the one side of said partition closed, the remaining part of said opposite end on the other side of said partition being open, said top member having a longitudinally extending row of relatively large openings each of which spans a pair of openings in said strip, said instrument also having an adjustable slide member in the top member adjacent said strip, said slide member having two rows of longitudinal apertures in staggered positions, said apertures being so disposed as to register with the openings of either row in said strip and close the remaining openings in said strip, or partly close all the openings in said strip, said instrument having a longitudinal partition between the rows of cells secured to the end members, adjacent cells in each row having the open parts of their ends adjacent, the open parts and the closed parts of the ends of the cells in the two rows being respectively in transverse alinement between said plates, the top member forming a mouth piece for all the cells.

2,608,899
MUSICAL WIND INSTRUMENT
Cosimo Lisi and Ugo Casaccia, Turin, Italy
Application January 9, 1948, Serial No. 1,344
In Italy January 11, 1947
8 Claims. (Cl. 84—388)



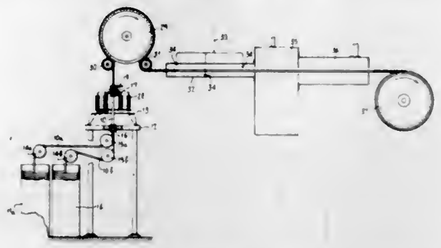
1. In a wind-instrument the combination with a main conduit and a valve controlling said main conduit, of a valve slide seated in the recess in said valve, the inlet and outlet openings of said valve slide being arranged so as to be inserted into the main conduit when the valve is lowered.

2,608,900
CARTRIDGE BELT ASSEMBLY TOOL
William R. Kunz, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War
Application May 12, 1948, Serial No. 26,674
5 Claims. (Cl. 86—48)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A cartridge belt assembly tool comprising a housing element, a cartridge seating element, each of said elements having a semi-cylindrical portion and a tubular portion, said seating element being telescopically mounted in said housing for slidable movement therein, said semi-cylindrical portion of said seating element forming an opening to receive a partially linked cartridge therein, a pair of oppositely disposed lugs on said housing arranged to engage said cartridge seating member for limiting the longitudinal movement thereof, said lugs being also engageable with the link in one position of the cartridge, said cartridge seating member being movable to seat a cartridge in the link, and a pair of upstanding arms on the end of said cartridge seating member adapted to engage the link in another position of the cartridge in said cartridge seating member, said lugs being then engageable with the extractor groove of the cartridge, said cartridge seating member then being movable to withdraw a cartridge from the belt.

2,608,901
CYLINDRICAL ABSORPTIVE FIBROUS BODY AND THE MANUFACTURE THEREOF
Joseph Goldman, Highland Park, N. J., assignor, by mesne assignments, to Barnhardt Manufacturing Company, Charlotte, N. C., a corporation of North Carolina
Application December 22, 1950, Serial No. 202,365
12 Claims. (Cl. 87—6)

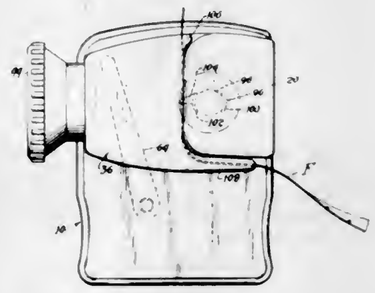


1. A method of producing a peripherally confined substantially cylindrical fibrous body which comprises arranging unspun fibers in the form of an elongated substantially cylindrical body, said body comprising long unspun fibers oriented predominantly longitudinally in said body, moving said body longitudinally and while said body is being so moved wrapping a plurality of composite strands about said cylindrical body substantially in the form of oppositely inclined helices with the convolutions of said helices in substantially spaced relation, each of said composite strands comprising a strand of latent activatable adhesive adapted to be activated to impart adhesiveness thereto by application of a solvent thereto and a second contiguous strand which is adapted to remain substantially unaffected upon application of said solvent thereto, and, after said strands have been wrapped about said cylindrical body as aforesaid, activating said latent activatable adhesive comprised in each of said strands by application of solvent thereto, thereby bonding the second strand comprised in each of said strands to peripheral fibers of said cylindrical body.

2,608,902
PICTURE VIEWING DEVICE
Otto R. Nemeth, Los Angeles, Calif.
Application May 2, 1950, Serial No. 159,399
1 Claim. (Cl. 88—18)

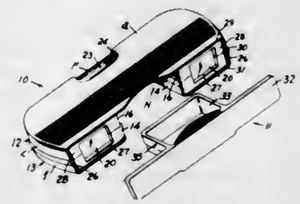
In a motion picture film viewing device, a vertically elongated motor housing, a spring motor within said housing, means extending through a side wall of said housing for winding the spring of the motor, a viewing chamber carried on the side of the housing opposite from said spring winding means and adjacent its upper end, a rotary shutter mounted within said chamber and having a driving connection with said motor, a lens house carried by said housing in transverse

alignment with respect to said chamber and in closely spaced relation thereto to provide a film passage therebetween, said chamber and said house having aligned openings in the adjacent side walls thereof, an eye-piece including a lens system adjustably mounted in the outer side wall of said house and in line with the opening in the opposite inner side wall thereof, a ground glass window in the outer side wall of said chamber in centered relation with respect to the opening in the opposite inner side wall of the same,



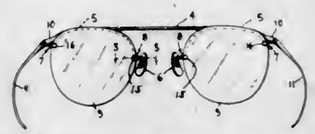
means carried by said shutter and operable through an opening in the said inner wall of the chamber, at one side of the first opening therein, for engaging the perforations of the film to advance the film through the said passage, and a guide arm carried by the lower side of said house and projecting rearwardly beneath said chamber and having a film guiding channel in the same for maintaining the alignment of the film in its movements therethrough and through the said passage.

2,608,903
DEVICE FOR VIEWING PICTURES
Otto Randolph Nemeth, Los Angeles, Calif.
Application February 27, 1950, Serial No. 146,603
2 Claims. (Cl. 88—31)



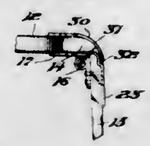
1. The combination with a stereoscope comprising a relatively flat hollow unit having wide top and bottom walls and narrow vertical front and rear walls, the unit including windows in the front walls and lenses in the rear walls with means for mounting a film strip therebetween; of means providing a nose space between the lenses comprising a recess formed in the bottom wall from the rear edge thereof, partitioning walls extending up from and outlining the edge of the recess to and joining the top wall, a cover plate positioned against said rear wall in covering position over said lenses, and a receptacle forming a part of the cover plate and extending into the said recess.

2,608,904
OPHTHALMIC MOUNTING
John W. Barrington, Rockville Centre, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 2, 1948, Serial No. 63,059
4 Claims. (Cl. 88—41)



1. A lens supporting structure for use with a pair of lenses in an ophthalmic mounting having depressions formed in the rear surface thereof spaced inwardly of the respective adjacent nasal and temporal edges of said lenses, said supporting structure comprising a bridge having bar-like portions on its opposed sides to follow rearwardly along the contour of said lenses and carrying lens connection members adjacent the opposed ends thereof, said lens connection members each embodying a first strap portion having an inner side surface to engage the rear surface of one of said lenses and having a projection extending forwardly from said inner side surface of the strap portion to fit within a respective depression formed in the rear surface of said lens, said first strap portion being secured to a respective bar-like portion and said lens connection members each further having a second strap portion disposed normally to said first strap portion to extend transversely of the adjacent lens edge and being of a length in excess of the edge thickness of the lenses with which the structure is to be assembled, and said second strap portion being of a bendable nature whereby the outer end portion of said second strap portion extending beyond the front surface of the lens may be bent into bearing engagement with said front surface of the respective lens so as to retain the projections carried by the first strap portions in the respective depressions of the lenses to secure said lenses in assembled relation with said supporting structure.

2,608,905
TEMPLE HINGE MOUNTING PROVIDING CATCH AND STOP SURFACES
John N. Nelson, Cranston, R. I., assignor to J. N. Nelson Co., Inc., a corporation of Rhode Island
Application March 11, 1950, Serial No. 149,187
2 Claims. (Cl. 88—53)



1. In an ophthalmic mounting, a temple lug, a temple, a hinge connecting said temple and lug, said hinge having a pintle forming a pivotal axis, said temple having an indentation in its outer surface adjacent but spaced from its hinge end providing a catch with the bottom of the indentation spaced one radial distance from said pivotal axis, a cam-shaped surface leading to said indentation from the end of the temple which is adjacent the hinge with the outer surface of the cam spaced a greater radial distance from said pivotal axis than the bottom of said indenta-

tion, means for holding the temple in open position comprising a resilient plate carried by said lug and extending arcuately rearwardly providing a catch engaging portion entering said indentation and engaging said catch and holding the temple in open position and slidable along said cam-shaped surface and being flexed outwardly by such sliding upon swinging said temple on its pivotal axis.

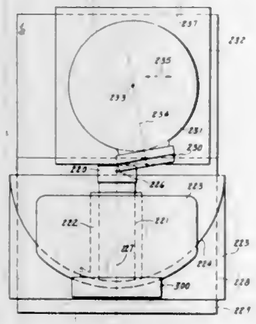
2,608,906

MACHINE FOR CUTTING CLUTCHES

Ernest Wildhaber, Brighton, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York

Original application December 21, 1942, Serial No. 469,610, now Patent No. 2,438,329, dated March 23, 1948. Divided and this application January 29, 1948, Serial No. 5,049

16 Claims. (Cl. 90—1.4)



1. A machine for cutting clutches and the like comprising a base, a pair of slides mounted on the base for movement in two directions at right angles to one another, a tool support mounted on one slide and a work support mounted on the other slide for angular adjustment on the slide about axes that are parallel to one another, a tool spindle journaled in the tool support with its axis at right angles to the axis about which the tool support is adjustable, a work spindle journaled in the work support with its axis extending at right angles to the axis of adjustment of said work support, a face mill cutter secured to the tool spindle, means for rotating the tool spindle, means for rotating the work spindle intermittently, and means for reciprocating one slide to effect alternate relative feed of the cutter into and away from the work.

2,608,907

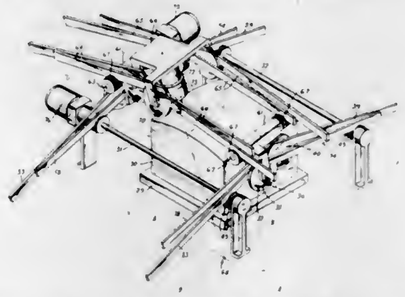
MACHINE FOR PREPARATION OF RELIEF MAPS

Barbara Ivins, New York, and Gordon M. Peltz, Flushing, N. Y., assignors to Walter Dorwin Teague, Annandale, N. J., Robert Jordan Harper, Scarsdale, N. Y., and C. Stowe Myers, Altadena, Calif., as copartners doing business as Walter Dorwin Teague, New York, N. Y.

Application February 18, 1948, Serial No. 9,283

18 Claims. (Cl. 90—13)

1. In a machine for making relief maps, supports spaced from each other, a structure movable on said supports, said structure having a surface arched across the space between said supports and said surface resting on said supports, the structure thereby being movable in a curved path crossing the space between the said supports and the structure also being independently movable in paths angled with respect to its said movements on said supports, each of said paths having a fixed center of curvature, a holder for a stylus, and a holder for the medium to be



marked, one of said holders being mounted on said structure, and one of said holders being movable toward and from the other independently of said structure to cause the stylus to penetrate into the medium.

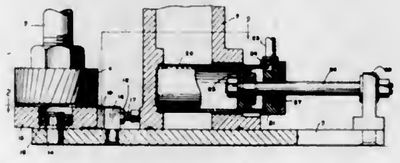
2,608,908

ROLLER SLIDE FOR RADIAL ARM SHAPERS

Earl T. Pankonin, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill.

Application September 23, 1948, Serial No. 50,777

5 Claims. (Cl. 90—13.3)



1. In a shaper having a movable radial arm, a cutter spindle and cutter on said arm and movable therewith, and a guide roller support column rigidly mounted on said arm in fixed parallel relation with said spindle, a slide mounted on said column and extending transversely of the spindle axis, said slide being disposed axially beyond the end of the cutter, a guide roller mounted on said slide adjacent said cutter, power means on said column for shifting said slide through a continuous stroke of predetermined length laterally across the axis of said cutter and relative thereto, and means to energize said power means.

2,608,909

MILLING ATTACHMENT FOR LATHES

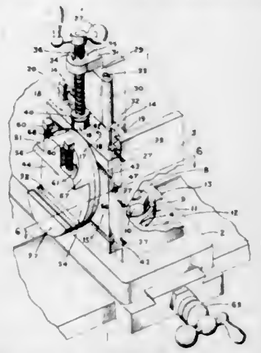
William H. Quinn, West Orange, N. J.

Application January 6, 1950, Serial No. 137,071

11 Claims. (Cl. 90—59)

1. An attachment for lathes having a movable carriage thereon comprising, a base member adapted to be mounted on said carriage, vertically disposed T-slots on said base member, a connecting member, a master slide and a fixed slide fixedly connected to said connecting member, said master slide and said fixed slide to provide slidable connecting means between said connecting member and said T-slots a vice member rotatably mounted on said connecting member, a support member mounted on the base member, a screw member in threaded engagement with said support member in the axial line of the connecting member, said screw member adapted to engage said connecting member to move said connecting

member in the vertical plane only, an angular inset formed in the master slide, adjustable means mounted in said inset for contact with said con-



necting member to provide locking means to lock the connecting member in a desired position, and means for locking the vise member in any desired angular position.

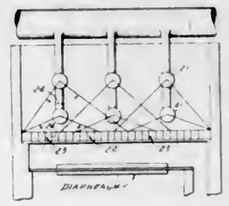
2,608,910

SCREENING OF FIBROUS MATERIAL

John McCrystle, New Brunswick, N. J.

Application April 26, 1946, Serial No. 665,314

5 Claims. (Cl. 92—20)



1. A method for operating a flat screen for screening fibrous materials which consists essentially of the following steps preparing a suspension of fibers, flowing said suspension over the screen, introducing positive jet streams of water under pressure at an angle less than seventy-five degrees to the plane of the screen onto the input side of said screen, and the said streams being introduced so that the entire opening areas of the screen are directly, wholly and simultaneously subjected to the action thereof.

2,608,911

CONCRETE FORM LINING MATERIAL

Orcutt W. Frost, Highland Park, and James H. Conover, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

Application May 1, 1946, Serial No. 666,513

13 Claims. (Cl. 92—40)



1. Process of producing a size-containing fiber board suitable for the lining of concrete forms, which comprises forming a wet mat from sized lignocellulosic fibers and applying to the still wet surface of said mat on the side intended to contact the wet concrete a composition consisting of a dilute aqueous solution of sodium hydroxide and an aldehyde from the group consisting of formaldehyde and furfural in which the sodium hydroxide is not more than about one-fifth the weight of the aldehyde, and drying the mat.

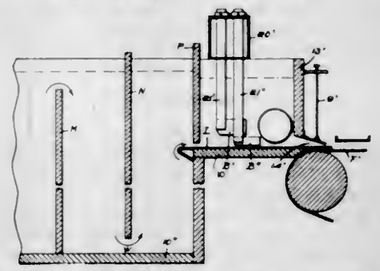
2,608,912

APPARATUS FOR PRODUCING PAPER

Harold M. Davis, North Calais, Vt., assignor to Precision Paper, Inc., Calais, Vt., a corporation of Vermont

Application February 23, 1949, Serial No. 77,763

13 Claims. (Cl. 92—44)



1. In a machine for producing a web of paper having a head box adapted to discharge a stream of an aqueous pulp suspension upon a moving screen to form a web, the combination therewith of means in close proximity to the region of said discharge providing a shallow passage adapted to direct said suspension toward said region of discharge, a plurality of baffles, means for supporting the baffles in the head box close to the bottom thereof between said passage and said region of discharge and in spaced relation transversely of the head box and substantially perpendicular to said bottom for separate rotative movement about axes substantially perpendicular to said bottom, and means for holding each of said baffles in a desired angular position, said plurality of baffles being positioned between said means providing a shallow passage and said region of discharge.

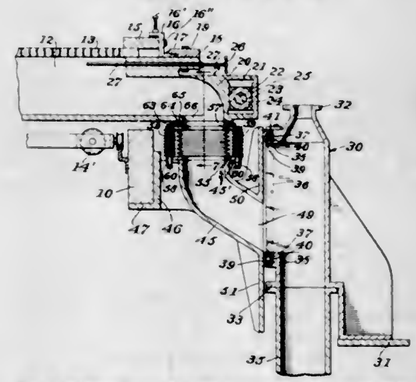
2,608,913

SUCTION BOX CONNECTION TO MANIFOLD

Samuel M. Bratton, Wilmington, Del., assignor to The Pusey & Jones Corporation, Wilmington, Del., a corporation of Delaware

Application October 15, 1946, Serial No. 703,454

17 Claims. (Cl. 92—51)



1. In a Fourdrinier machine having a suction box supported by the vertically adjustable sup-

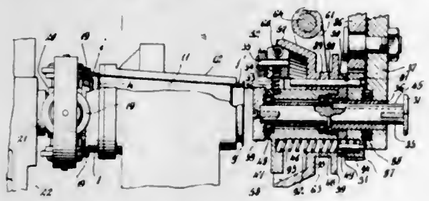
porting rails thereof and having fixed suction and water discharge lines, means establishing communication between the suction box and said lines, comprising a fixed manifold member connected to said lines, a coupling conduit member connected to said box and including a rigid section carried by said rails, one of said members having surfaces defining a vertically elongated laterally facing opening, the other member having a vertically elongated sealing surface registering with the margins of and being of greater height than said opening and said sealing surface having an opening therein of less height than, and registering with a portion of the elongated opening, said members being relatively vertically adjustable to change the elevation of registry of said openings, said sealing surface sealing the margins of the elongated opening in all adjusted positions of the members.

2,608,914

APPARATUS FOR SECURING A CLOSURE SUPPORTING RING IN THE END OF A RECEPTACLE BODY

Alfred Merkle, East Northport, N. Y., assignor to American Sealcone Corporation, New York, N. Y., a corporation of New York

Application July 28, 1949, Serial No. 107,196
2 Claims. (Cl. 93—36.5)



1. In a spinning head for securing a closure supporting ring engaged in one end of a receptacle body, an axial support slidably mounted, a tubular member having an annular flange at its opposite ends and mounted on the support to rotate on the support and participate in the sliding movement of the support, rotatable rollers slidably supported in a first flange of the tubular member to have movement radially toward and away from the support and yieldingly urged radially from the support, a hood member having an inwardly tapering face and slidably mounted on the tubular member between the flanges with the tapering face controlling the radial movements of the rollers toward and away from the support by the sliding movement of the hood member, means to move the hood member axially on the tubular member, a driven member rotatable about the axis of the support, and rods engaged in alined openings in the hood member, the second flange of the tubular member and the driven member to impart rotation from the driven member to the tubular and hood members without interfering with the sliding movements of the support and the tubular and hood members.

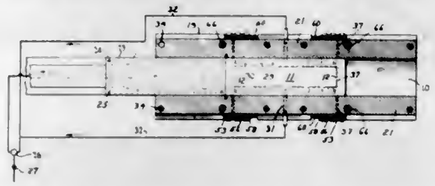
2,608,915

PACKAGE FORMING MACHINE

Frederick E. Bickford, Westchester, N. Y.

Application May 1, 1946, Serial No. 666,270
11 Claims. (Cl. 93—47)

10. In a device for making package trays from thermoplastic sheet material, in combination, a mold member having a removable bottom, upstanding sides extending above said bottom, upstanding ends extending across said sides and being slightly spaced therefrom, plates mounted in said upstanding ends, said plates being generally T-shaped, means for feeding a sheet of material above the molding chamber formed by said bottom and side and end elements, plunger means of a cross-sectional area substantially equal to that of the mold chamber, for forcing said moldable material into said mold chamber to thereby cause the sides and ends of said sheet to be folded upwardly and to form a triangular fold at each extremity of each end of the tray formed thereby, said triangular folds extending into the space between said mold side members and end members, means adjacent each triangular crease for pressing the crease, additional means adjacent each crease for further pressing the said crease, said additional means comprising a pair of rollers situated on each side of each said end of each extremity, said rollers of both said first and said additional creasing means being driven



by said plunger means, means operable upon said plunger means seating against said removable bottom member of said mold for folding the said triangularly creased extremities of the ends of said sheet against the sides of the formed tray like member, means for removing said bottom member from said mold, an additional mold chamber mounted beneath said main mold chamber, said additional mold chamber having a removable bottom member, said plunger means being operable to position said formed tray against said additional removable mold bottom, heating means for causing adherence of said folded triangularly creased extremities to the sides of the formed tray and for setting all folds, means for removing said second removable bottom member, said plunger means moving downwardly to remove the formed trays from the entire mold structure, and means to remove the formed tray from the plunger means, said last mentioned means comprising a vacuum element on which the plunger deposits the formed tray.

2,608,916

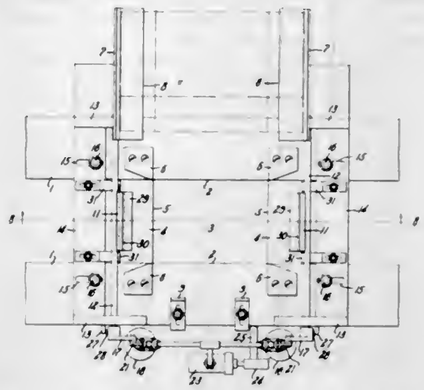
CARTON FOLDING MECHANISM

Robert J. Hickin, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio

Application October 4, 1950, Serial No. 188,405
9 Claims. (Cl. 93—51)

1. In carton folding mechanism for folding to erected form a flat paperboard carton blank having a bottom member, side and end wall members defined from said bottom member by folding scores, and securing flaps defined from the side wall members by folding scores and contiguous to but separated from the end wall members by cuts; means defining a die cavity, means for supporting a flat carton blank in operative register with said die cavity, a plunger reciprocable relatively to said die cavity and serving to force said blank into said cavity to bend the side and end wall members thereof into position substantially normal to the bottom member, means serving during such forcing operation to fold said securing

flaps upon their folding scores into securing relation to the end wall members, and positively actuated means movable for contacting engagement with said end wall members and function-



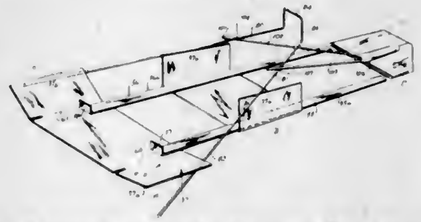
ing prior to such forcing operation for displacing said end wall members from the plane of the carton blank, whereby folding of said securing flaps will not be interfered with by said end wall members.

2,608,917

FOLDING MACHINE

Charles Hess, Yonkers, N. Y., assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y., a corporation of New York

Application November 20, 1947, Serial No. 787,158
2 Claims. (Cl. 93—52)



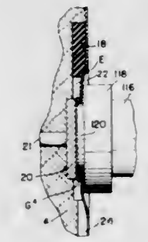
1. A folding machine for folding flat box blanks having predetermined fold lines into tubular form, the said box blanks each having a pair of outer panels defined by fold lines, which panels when folded over toward each other against the blank body will meet at their edges to form a seam; said machine comprising a horizontal platform, means for moving a box blank longitudinally along said horizontal platform; a pair of flat folding bars extending longitudinally along said horizontal platform; the outer edges of said folding bars being each positionable along the path of travel of a fold line in the box blank defining an outer panel; the box blank moving beneath said folding bars and the panels to be folded projecting beyond said folding bars; folding apparatus including a stationary inclined bar located on each side of said platform and extending longitudinally of the platform; each inclined bar extending beneath the path of travel of the box blank panel and outside of the folding bar on its side at the end of the inclined bar over which the box blank first moves; each inclined bar extending at an acute angle to the platform to a point elevated above the platform in the direction of movement of the box blank; said inclined bars being integrally joined to each other at said elevated point, said inclined bars and said folding bars cooperating with the means for moving the box blank to fold the outer panels upwardly as the box blank moves along the platform, said folding apparatus also including additional stationary inclined bars extending longitudinally of said platform extending at an opposite angle to said platform from the first-mentioned inclined bars and positioned to engage the outer surfaces of the upwardly folded panels and press them down toward each other and the main body of the blank as the blank moves along the platform; said additional stationary bars converging toward the longitudinal axis of the platform as they descend and terminating in an elongated pressure plate disposed to maintain the pressed down panels in flat position, including a pressure screw disposed to bear on said pressure plate and to be manually adjusted to vary the pressure thereon.

2,608,918

APPARATUS FOR INSERTING CLOSURES IN CONTAINERS

Douglas Kirk, Hudson, Ohio, assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey

Application October 20, 1948, Serial No. 55,472
10 Claims. (Cl. 93—55.1)



2. In a machine for producing containers having cup-like closures in separable interlocking relation with an opening in the wall of the container, a mandrel for holding a container, feed mechanism for advancing closures toward the mandrel, a transfer device for removing a closure from the feed mechanism and inserting it in the opening in a container while the container is located on the mandrel, a plunger, means for moving the plunger against the outer surface of the closure while it is in position in the container and an impact surface behind the closure against which the closure is upset by the movement of the plunger.

2,608,919

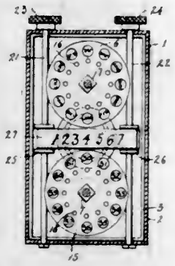
MEANS USED IN CONJUNCTION WITH A MOTION PICTURE CAMERA FOR THE PHOTOGRAPHIC RECORDING OF A DATE ON A FILM

Daniel Kramer, Willowick, Ohio

Application November 25, 1949, Serial No. 129,464
2 Claims. (Cl. 95—1.1)

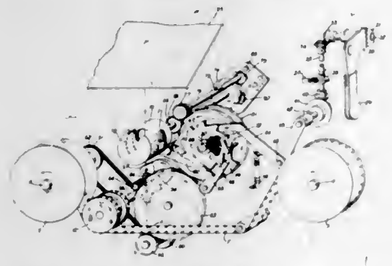
1. A device of the class described, comprising, in combination a casing comprising a plurality of sections, one of the sections having a plurality of light admitting apertures therein, the aforementioned section snugly fitting over an intermediate section and forming with the first mentioned section a light-tight compartment, a rear section telescoped into the intermediate section, a lens system incorporated in the rear section, manually rotatable disk members having trans-

parent and opaque portions which define indicia in the compartment, a manually transversely movable member of narrow strip configuration having transparent and opaque portions which define indicia positioned between the disk members in the compartment, a bolt for each disk member formed with a square portion, a cylindrical portion extending from the square portion and forming a shoulder therewith, a head on the square portion, a disk having a square hole there-



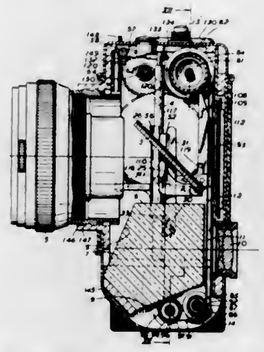
in slidably mounted on the square portion, a helical spring interposed between the head on the bolt and the back surface of the disk, the cylindrical portion of the bolt journalled in the casing, a knob fast on the cylindrical portion adapted to turn the bolt with the disk thereon, the helical spring on the bolt adapted to normally urge the disk into slight frictional contact with the inner surface of the casing and retain it in selected position.

2,608,920
CAMERA
Howard J. Smith, Yonkers, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 12, 1950, Serial No. 173,357
7 Claims. (Cl. 95—31)



1. The combination in a camera having a film driving sprocket and an exposure shutter, of a driving gear, a driving connection between said gear and said sprocket, an escapement mechanism having one element thereof normally engaging said shutter to lock it against rotation and an engagement releasing element driven by said driving gear to release said first-mentioned element a predetermined time after the beginning of operation of said driving gear, a partially wound spring connecting said gear and said shutter, said spring being further wound by the rotation of said gear, and a driving means producing rotation of said gear to effect simultaneously the movement of said film driving sprocket and the winding of said spring and subsequent operation of said escapement mechanism to release said shutter for operation under the action of said spring.

2,608,921
REFLEX CAMERA WITH CURTAIN SHUTTER
Maurice Eyre Persse Studdert, Waterford, Eire; Helena Ruth Katie Studdert, executrix of said Maurice Eyre Persse Studdert, deceased, assignor to Wray (Cameras) Limited, Bromley, England, a British company
Application May 17, 1948, Serial No. 27,536
In Great Britain May 21, 1947
11 Claims. (Cl. 95—42)

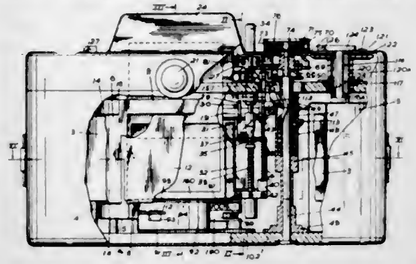


2. In a photographic film camera, a shutter mechanism comprising in combination a first shutter blind, a cooperating second shutter blind, individual driving springs for actuating said respective shutter blinds during an exposure, means to stress said driving springs and set said blinds prior to an exposure, first and second detents for holding said driving springs in stressed condition, a spring motor, means for stressing said spring motor before each exposure, a member directly driven by said motor, a catch engageable with said driven member to hold said spring motor in stressed condition, exposure initiating mechanism connected to said catch to disengage said catch from said driven member, first cam means connected directly to said driven member to disengage said first detent, second cam means for disengaging said second detent, a slipping clutch between said first cam means and said second cam means, means to adjust said second cam means in relation to said first cam means, and means to prevent reverse rotation of said first cam means and said driven member.

2,608,922
REFLEX CAMERA WITH CURTAIN SHUTTER
Maurice Eyre Persse Studdert, Oldcourt, Waterford, Eire; Helena Ruth Katie Studdert, executrix of said Maurice Eyre Persse Studdert, deceased, assignor to Wray (Cameras) Limited, Bromley, England, a British company
Application July 10, 1950, Serial No. 172,858
In Great Britain July 13, 1949
11 Claims. (Cl. 95—42)

1. In a photographic camera, a shutter mechanism comprising first and second roller blinds which co-operate to make an exposure, individual driving springs to move said blinds during an exposure, means to set said blinds and stress said driving springs prior to an exposure, first and second means to retain said respective blinds in set condition with said driving springs stressed ready for an exposure, a spring motor, means to stress said spring motor, latch means to retain said spring motor in stressed condition, means to disengage said latch means, a release member in permanent driving connection with said spring motor and adapted to engage said

first retaining means to release said first blind, an intermediate member, independent of said spring motor, co-operating with said second retaining means and engageable by said release member to disengage said second retaining means



to release said second blind, and means to adjust said intermediate member to vary the point in the movement of said release member at which said release member engages said intermediate member.

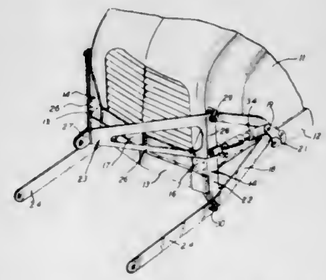
2,608,923
PHOTOGRAPHIC DEVELOPING TANK
Lyman R. Spaulding, Portland, Oreg.
Application February 2, 1949, Serial No. 74,165
6 Claims. (Cl. 95—90.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A film developing tank comprising a cylindrical container having means for admitting film, said means including an elongated narrow slot, film agitating means comprising a pair of spaced fingers mounted to be rotated around an axis between them, a crank extending outside said container and connected to said fingers to cause said rotation, said axis being parallel to said slot, said fingers and crank being supported on a rotating disc mounted in fixed relation to said container and arranged so the axis of said crank can be moved within a range of locations in said container, and positioning means mounted in fixed relation to said container and arranged to releasably engage said crank and establish the space between said fingers in line with said slot for admitting film to said container and between said fingers.

2,608,924
THREE-POINT FRONT IMPLEMENT MOUNTING FOR TRACTORS
James Edward Bywater, Whitnash, near Leamington Spa, and Ronald Frederick Hale, Seven Kings, England, assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application March 25, 1950, Serial No. 151,894
In Great Britain January 24, 1949
1 Claim. (Cl. 97—47)

A three point front implement mounting for a tractor having frame side rails and a frame cross member at the front thereof, vertical corner brackets at the junction of each side rail with said cross member and secured thereto, a transverse reinforcing member interconnecting said vertical corner brackets and supported upon said front frame cross member, a supporting bracket mounted upon each side rail rearwardly of said vertical brackets, a forwardly facing U-shaped yoke at each side of said tractor, a pair of laterally spaced lower links extending forwardly from said tractor and having means at their forward ends for connection to an implement, pivot pins detachably inter-connecting the rear ends of said lower links with the lower ends of said corner brackets and the forward extremities of the lower legs of said U-shaped yokes, an upper link assembly extending forwardly from said tractor and having means at its forward end forming a



single point connection for an implement substantially on the longitudinal center line of the tractor, said upper link assembly having triangularly shaped side portions extending rearwardly from said single point connection in diverging relationship to each other, pivot pins detachably interconnecting the upper rear corners of said triangularly shaped side portions to the upper ends of said corner brackets and the forward extremities of the upper legs of said U-shaped yokes, horizontally disposed cylinder and piston assemblies at each side of said tractor having their forward ends pivotally connected to the lower rear corners of said triangularly shaped side portions of said upper link assembly, and pivot pins detachably interconnecting the rearward ends of said cylinder and piston assemblies to said supporting brackets and the bases of said U-shaped yokes.

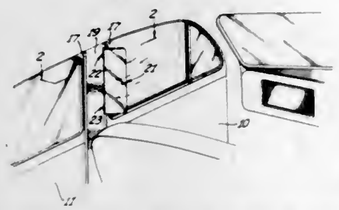
2,608,925
CULTIVATOR
Edwin Meidinger, Lethbridge, Alberta, Canada
Application June 6, 1950, Serial No. 166,327
2 Claims. (Cl. 97—47)



2. In combination, a tractor including an axle housing and power lift arms, a cultivator operatively connected to said tractor and including a frame support secured to said tractor, a main frame operatively connected to said frame support, said frame support comprising straps secured to said tractor, a spring assembly mounted on each end of each of said straps, said main frame comprising beams arranged below said

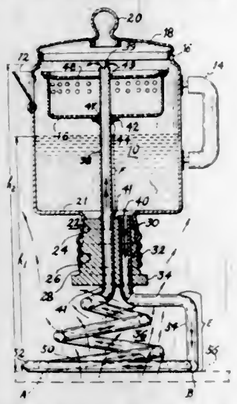
straps, a brace member extending between the rear ends of said beams and secured thereto, a pair of rods connecting said brace member to said power lift arms, and a plurality of links pivotally connecting said beams to said spring assemblies, said spring assemblies each comprising plates arranged on opposite sides of said straps and pivotally connected thereto, said links being pivotally connected to said plates, a strip secured to the upper surface of each pair of plates, a stub shaft having its upper end connected to the projecting end of said strip, an ear projecting from said straps, said stub shaft slidably engaging said ear, and a coil spring circumposed on said stub shaft and engaging said ear.

2,608,926
WIND DEFLECTOR FOR AUTOMOBILE REAR SEATS
Frank H. Heisley, Los Angeles, Calif.
Application April 2, 1948, Serial No. 18,515
5 Claims. (Cl. 98—2)



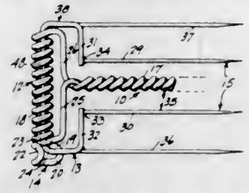
1. In combination with a vehicle body having a door jamb, and rolls extending vertically along the inside edges of the jamb and a facing between the rolls, a wind deflector, and means secured to the deflector inserted between a roll and the facing and extending behind the facing for mounting the deflector on the door jamb.

2,608,927
RAPID PERCOLATOR
William W. Gaskell, Jr., Penn Township, Allegheny County, Pa.
Application January 27, 1949, Serial No. 73,101
4 Claims. (Cl. 99—310)



1. Rapid percolator comprising a vertically elongated container for liquid having an opening at its top, an outer cover detachably fitting said opening, a tubular base provided with convolutions adjoining at one end a relatively short inlet extension reaching into the bottom portion of said container and at the other end continuing in a longer outlet extension reaching into the top portion of said container, attachment means rigidly and sealingly fixed to said extensions of said base and also to said container it supports above said convolutions in stable equilibrium upon a substantially horizontal surface, a vessel having openings, carried by said outlet extension in said container, for holding material to be infused, said base providing communication for the liquid in said container between bottom- and top-portions thereof in either direction and said convolutions being arranged free in the atmosphere and subjected to the thermal effects of freely streaming heating gases from below said base, the major portion of at least one of said convolutions and that of said inlet extension lying substantially outside the orthogonal vertical projection of said container and subjected to the cooling effect of the atmosphere, said outlet extension being centrally located relative to said container and exposed to the unhampered cooling effect of the liquid therein, the said attachment means including at least one, from said container downwardly protruding and widening tubular neck portion, the upper part of the inner surface of which is conical, the lower part of said inner surface is threaded, a plug, fixed to one of said extensions carried inserted in said neck, said plug having part of the upper portion of its outer surface matchingly conical with said neck's conical inner surface, thread means coacting with the inner surface of said neck and with the outer surface of said plug relatively displacing them axially and, in operative position pressing said conical surfaces sealingly together.

2,608,928
FRANKFURTER TOASTER
James L. C. McDonnell, Castro Valley, Calif.
Application October 12, 1950, Serial No. 189,832
2 Claims. (Cl. 99—421)



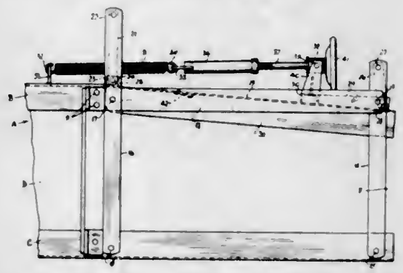
1. A toaster comprising a shank terminating in a head, a fork having tines and pivoted in said head on a transverse axis relative to the shank with said tines extending in the direction of the shank, and with said fork carrying food products having a gap to clear the shank when the fork drops from a position above the shank to a position below the shank, and stops carried by said head for limiting the movement of the fork to an angle of less than 45° to the axis of the shank, whereby when the shank is supported at an angle of approximately 45° downwardly inclined from the horizontal, the tines will be supported in a horizontal position, and when the shank is rotated about its axis through a half turn, the tines with their food products will drop past the shank to the first named position with the food products inverted; said head comprising an elongated plate having a pintle sleeve formed along its forward longitudinal edge on a transverse axis and having the shank fixed centrally of its rearward edge and including said stops located about the forward portions of the respective ends of the pintle sleeves for engaging the fork in the respective angular positions.

2,608,929
FEEDER MEANS FOR HAY BALERS
Louis A. Paradise, Moline, and Jack H. Berry, Rock Island, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 7, 1950, Serial No. 166,668
10 Claims. (Cl. 100—189)



8. In a baler, the combination of: means including a plurality of walls forming a bale chamber, one of said walls having an opening therein through which material may be fed into the chamber; means including a feed-opening control element movable from a first position, substantially uncovering the feed opening, to a second position, covering said opening; feeder means for accumulating material against the control element while said element is in its opening-covering position, said feeder means including force-applying mechanism conditioned by such accumulation of material for subsequently propelling such material into the bale chamber when the control element is moved to its opening-uncovering position; and means for moving said element to its opening-uncovering position to effectuate delivery of the accumulated material by said force-applying mechanism.

2,608,930
BALE TENSIONING MECHANISM
Paul P. Wuertz, Melrose, Minn., assignor, by mesne assignments, to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota
Application October 3, 1947, Serial No. 777,773
4 Claims. (Cl. 100—192)



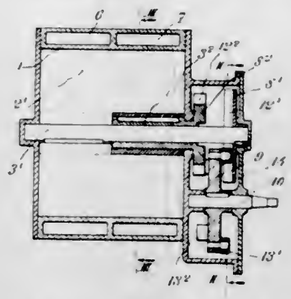
1. In a baling machine, a frame having a bale chamber with an open rear end for delivering the bales, a bale tensioning plate above the bale chamber for engaging the bales as they pass out the rear end thereof, supports on the frame, upright front and rear suspension arms for the plate, the upper ends of the arms being pivoted to the supports and the lower ends pivoted to the plate whereby the plate may swing rearward and upward by contact with a passing bale, the rear arms being shorter than the front arms and at least one coil spring arranged above the plate with its axis lengthwise of the bale chamber and connected at its forward end to the frame and at its rear end to the plate forward of the rear arms.

2,608,931
ROCKET
Charles C. Lauritsen, Pasadena, Calif., assignor to the United States of America as represented by the Secretary of the Navy
Application March 1, 1946, Serial No. 651,299
3 Claims. (Cl. 102—49)



2. In a rocket projectile having a motor tube containing a burnable charge confronting a jet nozzle at one end; a safety accessory at the other end of the tube primarily effective during the storage and shipment of the motor tube and its contained charge, said accessory comprising a sealing diaphragm located interiorly of and across the tube and secured around its rim to the interior wall of the tube, and a rupturable portion made integral with the diaphragm to be part of the seal, said portion blowing out in one direction simultaneously with the blowing of the gas jet at the nozzle in case of inadvertent ignition of said charge.

2,608,932
COMPRESSOR
Etienne Marie Jules Lepicard, Neuilly-sur-Seine, France
Application August 6, 1947, Serial No. 766,686
In France October 7, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires October 7, 1961
3 Claims. (Cl. 103—129)



1. A rotary fluid machine which comprises, in combination, a frame, a circular drum fixed in said frame and provided with four inlet holes and four outlet holes, every inlet hole and one corresponding outlet hole being disposed on opposite sides respectively of, and adjacent to, one of two diametral planes at right angles to each other, a fluid inlet conduit connected with said four inlet holes, a fluid outlet conduit connected with said four outlet holes, two shafts coaxially journalled in said drum, a set of four blades each at right angles to the adjacent ones fixed to one of said shafts and having their edges adjusted to move along the inner walls of said drum, a set of four blades each at right angles to the adjacent ones fixed to the other of said shafts and having their edges adjusted to move along the inner walls of said drum, said shafts extending to the outside of said drum, two plates fixed to the portions of said shafts on the outside of said drum, each of said plates being provided with four radial slide-

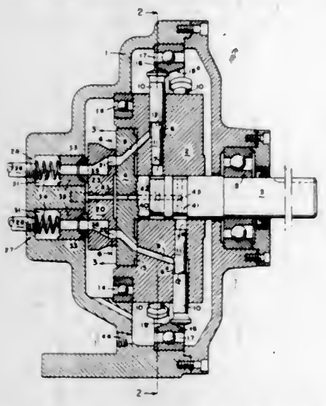
ways located in two diametral planes at right angles to each other, a third shaft journalled in said frame having its axis parallel to that of the two first mentioned shafts and located in the bisector plane of the dihedral angle made by two first mentioned diametral planes, and eight fingers carried by said third shaft adapted to slide respectively in the eight slideways of said two plates, these eight fingers being located in four diametral planes of said third shaft making angles of 45° with one another, all of said fingers being at a distance from the axis of said third shaft such that when a slideway is at an angle of 45° to the above mentioned bisector plane passing through the axis of the three shafts, the corresponding finger is just engaging or leaving said slideway and is moving along a trajectory the tangent to which coincides with the axis of said slideway.

2,608,933

HYDRODYNAMIC MACHINE

Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

Application September 24, 1945, Serial No. 618,288
15 Claims. (Cl. 103—161)



1. In a hydrodynamic machine, the combination of a rotatable cylinder barrel having a plurality of pumping cylinders arranged therein in a circular row and a smaller coaxial bore extending inward from the inner end of each cylinder, a piston fitted in each cylinder and having a coaxial extension of smaller diameter fixed to its inner end and fitted in the bore extending inward from that cylinder, an annular reaction surface engaging the outer ends of the pistons in said row and arranged eccentric to said cylinder barrel to cause said pistons to reciprocate during rotation of said cylinder barrel, a channel communicating with the inner end of each pumping cylinder, and valve means for controlling said channels to thereby control the flow of liquid to and from said cylinders, a source of pressure liquid other than said cylinders, and means for supplying liquid from said source to said bores to urge said extensions and said pistons outward.

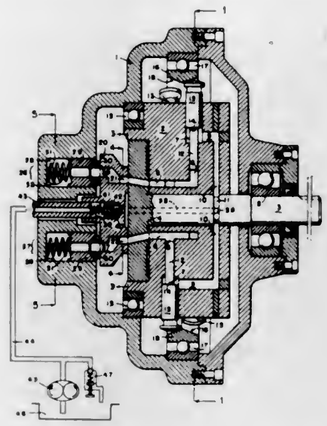
2,608,934

HYDRODYNAMIC MACHINE

Walter Ferris, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin

Application October 27, 1945, Serial No. 625,027
11 Claims. (Cl. 103—161)

1. In a hydrodynamic machine, the combination of a rotatable cylinder barrel having a plurality of two-diameter cylinders, each of said cylinders including a pumping portion and a concentric guiding portion one of which is larger than the other and is arranged outward therefrom, channels communicating with said pumping portions, valve means associated with said channels for controlling the flow of liquid to and from said pumping portions, a two-diameter piston arranged in each of said cylinders and having its larger portion fitted in the larger portion thereof and its smaller portion fitted in the smaller portion thereof, a thrust member engaging the outer ends of said pistons and so arranged in respect to said cylinder barrel as to cause the pistons on one side of said machine to move progressively inward during rotation of said cylinder



barrel and to eject liquid from both the pumping portions and the guiding portions of the cylinders on that side of said machine, channel means for interconnecting the guiding portions of all of said cylinders to enable liquid ejected by inward moving pistons from the guiding portions of the cylinders on said one side of said machine to flow to the guiding portions of the cylinders on the other side of said machine and move outward the pistons in those cylinders, and means for permitting escape from said guiding portions of liquid leaking thereinto from said pumping portions including a resistance valve to resist said escape of liquid and thereby maintain in said guiding portions a fluid pressure which holds the pistons on said other side of said machine in contact with said thrust member.

2,608,935

SKI-TOW APPARATUS

Walter L. Moore, Austin, Tex., and George P. Carver, Northridge, Calif.; said Carver assignor to said Moore

Application December 19, 1947, Serial No. 792,652
5 Claims. (Cl. 104—173)



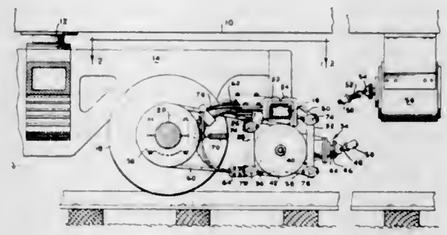
1. In a mobile ski-tow of the character described, comprising a power tractor mounted upon a continuous endless tread extending from the front to the rear ends and from side to side thereunder, and including tow means selectively powerable by the motor of the tractor mounted on the tractor; front and rear axles supporting the tractor, sprocket wheels mounted on the axles respectively, the feature of novelty comprising: said tread being solely mounted on said front and rear sprocket wheels in the general form of a flat loop including an upper run and a lower run, guide means depressing the center of said upper run between and below upper portions of the sprocket wheels whereby the upper and lower tread runs are closer together near the center of the tractor than at its ends, to prevent upward movement thereof and to prevent said run from striking superadjacent parts of the tractor, superadjacent parts of the tractor extending below a horizontal plane, common to the tops of sprocket wheels whereby the center of gravity of the tractor is lowered.

2,608,936

GENERATOR DRIVE FOR RAILWAY VEHICLES

Erwin J. Schmidt, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio

Application October 12, 1946, Serial No. 702,977
2 Claims. (Cl. 105—106)



1. In a vehicle generator drive, said vehicle having a truck with wheels and a wheel axle; a transverse sill on said truck substantially parallel with said axle; a bracket secured to said sill and extending downwardly thereof; a transmission unit resiliently suspended on said bracket and centered beneath said sill for movements substantially at right angles to the axis of said axle; spaced pulley means on said axle and the input shaft of said transmission on opposite sides thereof and endless belts passing therearound for supplying power to said transmission; an arcuate leaf spring one end of which is anchored on said bracket said spring curving downwardly between the wheel axle and the transmission unit with the opposite end in engagement with a block on said transmission unit continuously urging said unit away from said axle and maintaining the belts in a taut condition.

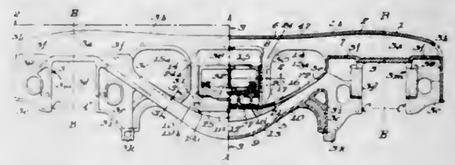
2,608,937

RAILWAY TRUCK

Donald S. Barrows and Glenn F. Couch, Rochester, N. Y., assignors to The Symington-Gould Corporation, Rochester, N. Y., a corporation of Maryland

Application February 12, 1946, Serial No. 647,139
25 Claims. (Cl. 105—203)

1. In a spring plankless truck, the combination of, a side frame presenting a window opening, a chair interlocked with a portion of said side frame, a concave surface on said chair, upwardly extending teeth on said chair, a load carrying member having an end extending into said window opening, a convex surface on said load carrying member end; said convex surface being of shorter radius than and bearing upon said con-



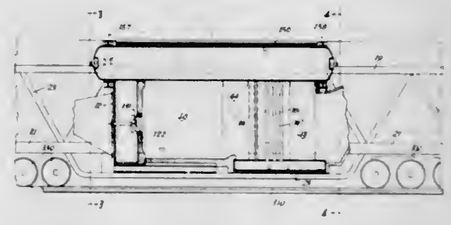
cave surface, and downwardly extending teeth on said load carrying member end meshing with said teeth on said chair for resisting horizontal angling movement between said load carrying member and chair.

2,608,938

MOBILE STEAM GENERATOR

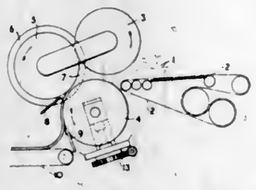
Ralph M. Hardgrove, Westfield, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Original application November 29, 1944, Serial No. 565,602. Divided and this application May 8, 1948, Serial No. 25,931
13 Claims. (Cl. 105—238)



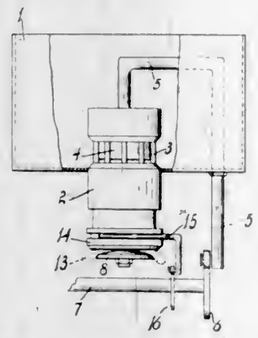
1. In a steam generating installation including a railway car mounting, a water tube steam generator including an elevated steam and water drum, steam generating tubes depending from the drum and enclosing a furnace combustion chamber, means including downcomers establishing communication between the lower part of the drum and the lower ends of the steam generating tubes, a railway car construction including end trucks and heavy upright side trusses having underslung mid-portions disposed between said trucks and extending downwardly to a level below that of the truck axles, transverse beam constructions rigidly joining the upper chords of the opposite trusses at opposite ends of the drum and combining with the trusses to provide load carrying supports for said drum and the major portion of the remainder of the steam generator, upper transverse struts rigidly joining the upper chords of the trusses and extending over the drum, the lower ends of the steam generating tubes and the steam generator furnace extending into the car well to a position near the underslung portions of the side trusses lower transverse struts extending under the steam generator and rigidly joining the lower chords of said trusses, and means associating the lower transverse struts and the lowermost parts of the steam generator to prevent sidesway of the lower part of the steam generator and to maintain their operative relationships during relative vertical and longitudinal movements.

2,608,939
DOUGH MOLDING DEVICE
Joseph Francis Naylor, Newton-le-Willows, England, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company
Application May 10, 1948, Serial No. 26,176
In Great Britain November 19, 1947
2 Claims. (Cl. 107—12)



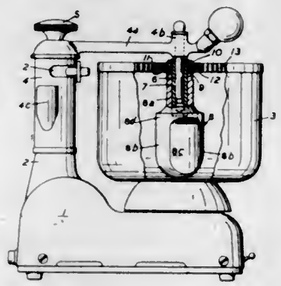
1. A machine for the formation of a continuous sheet from a plastic dough material including, in combination, first and second rollers having parallel axes lying in a common plane, said rollers being adapted to rotate in the same direction, the peripheries of said rollers being in proximate relation to each other, said second roller being movable through an arc centered on the axis of said first roller into operative position; a third roller having an axis parallel to the axes of said first and second rollers and disposed below said axes, said third roller adapted to rotate in a direction opposite the direction of rotation of said first and second rollers, said third roller being in spaced relation to said first roller to form a bight therebetween, means associated with said third roller for adjusting said bight; and means to continuously feed dough material in a substantially horizontal direction into said bight for compression into a sheet.

2,608,940
DOUGHNUT DOUGH DISPENSER
Edward H. Nagel and Adrian O. Hubbell, Long Beach, Calif., assignors to Coma F. Norris, Long Beach, Calif.
Application April 8, 1947, Serial No. 740,224
4 Claims. (Cl. 107—14)



1. A doughnut dough dispenser comprising a tank, a cylinder mounted in said tank and depending therefrom, said cylinder having intake ports therein positioned within the tank and adjacent the upper end of the cylinder, a piston reciprocally mounted in the cylinder, said piston moving over said ports to open and close the ports, means to reciprocate said piston, and cutter means on the lower end of said cylinder, said cutter means including a ring slidably mounted on the cylinder, and means to reciprocate said ring, synchronously with the piston, and a valve mounted for free vertical movement in the lower end of the cylinder.

2,608,941
MIXING AND KNEADING MACHINE
Harold Thomas Lamb, Newcastle-on-Tyne, England
Application June 27, 1950, Serial No. 170,622
In Great Britain November 25, 1949
7 Claims. (Cl. 107—33)



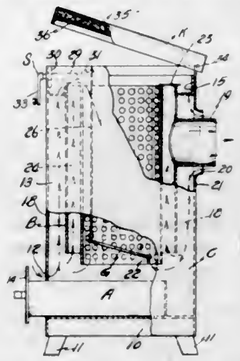
1. A machine for mixing and kneading and similarly treating material, of the kind comprising a vertical mechanically driven mixing bowl and a vertical mixing dolly inside said bowl and in driving relation therewith so as to be driven by said bowl, wherein on the inside of said bowl there is provided a toothed rim and a correspondingly toothed disc on said dolly, said toothed rim and toothed disc being adapted to mesh with each other, the dolly having formed in its upper portion a coaxial bore, a non-ferrous sleeve rigidly held in said bore, a swinging horizontal arm on said machine, a downwardly directed vertical pin on said horizontal arm, said sleeve being adapted to pass over said vertical pin, a pair of stepped discs mounted on the upper end of said sleeve, and a toothed annulus of resilient material rigidly mounted between the stepped portions of said discs, the diameter of said discs being such as to leave only the toothed portion of said annulus exposed, the teeth of which toothed portion are adapted for engagement with the teeth on the bowl.

2,608,942
TOP INSULATOR FOR MOTOR VEHICLE BODIES
Robert E. Smith, Houston, Tex.
Application July 9, 1949, Serial No. 103,778
3 Claims. (Cl. 108—3)



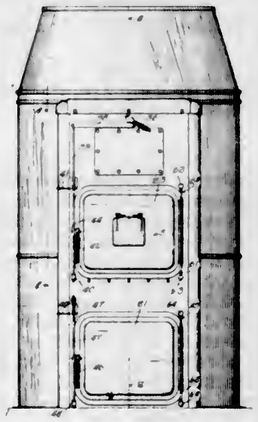
1. A top insulator for motor vehicle bodies comprising, upstanding supports on the top of the body, a cover of sheet material on the supports spaced above said top and substantially co-extensive therewith, said cover having outlet openings distributed approximately throughout the area thereof, and a forwardly directed tongue beneath each of the openings formed by downward displacement of the material of the cover.

2,608,943
GARBAGE AND REFUSE INCINERATOR
Erwin J. Weggel, Bay City, Mich.
Application April 7, 1947, Serial No. 739,827
5 Claims. (Cl. 110—18)



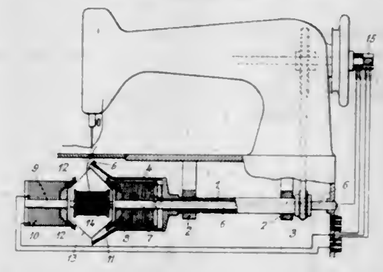
1. A garbage incinerator comprising a cabinet open at its upper end, a perforated support plate in the upper end thereof, an open baffle cylinder suspended from the support plate and forming an air space between said cylinder and the walls of the cabinet, an open ended, perforated combustion cylinder suspended from said support plate within said baffle cylinder, spaced-apart expansion brackets forming the suspension means between the combustion cylinder and the support plate, a grate pivotally mounted at its rear end in said combustion cylinder, a suspension link detachably connected to the front end of said grate, means for reciprocating said link, a smoke pipe connected to the baffle cylinder adjacent the upper end thereof, means for admitting air to the cabinet around said pipe, and means for admitting air to the cabinet at a point below said grate.

2,608,944
FURNACE WITH DOOR LATCHING MEANS AND COMBUSTION GAS BY-PASS CONTROLLED THEREBY
John W. Norris, Marshalltown, Iowa, assignor to The University of Illinois Foundation, a non-profit corporation of Illinois
Application December 31, 1948, Serial No. 68,502
6 Claims. (Cl. 110—173)



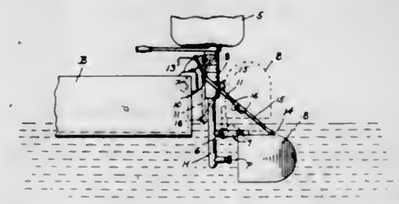
1. In a furnace having a firebox, said firebox having a fuel opening therein normally closed by a door, and said furnace having walls defining a passage adjacent the firebox for the gaseous products of combustion, a by-pass door between said firebox and said passage, a latching mechanism for said fuel door comprising a latch member for said fuel door, a movable member overlying said latch member for engagement therewith, and means operably connected to the movable member and the by-pass door for substantially simultaneously moving said movable member away from and out of engagement with said latch member and for opening said by-pass door, said movable member overlying said latch member when said fuel door is in closed position in order to retain said fuel door in said closed position.

2,608,945
ELECTROMAGNETIC SHUTTLE FOR SEWING MACHINES
Arne Hagquist, Oslo, Norway
Application September 13, 1948, Serial No. 49,056
In Norway November 1, 1947
7 Claims. (Cl. 112—181)



1. An electromagnetic shuttle device for sewing machines comprising a magnetizable bobbin case for holding the under-thread, a rotary hook for passing a loop of the needle-thread around said bobbin case, an electromagnet disposed at each side of said bobbin case, said electromagnets being effective when energized to produce a magnetic field in the space therebetween causing said case to be floated therein, and said field constituting the sole support for said case during the sewing operation, and means for energizing said electromagnets alternately in timed relation with the rotation of said hook to impart an axial reciprocatory motion to said bobbin case in the space between said electromagnets.

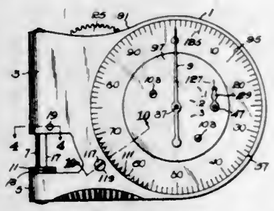
2,608,946
BOAT REVERSING MECHANISM FOR OUTBOARD MOTORS
Judson R. Hoover, Elmira, N. Y.
Application April 26, 1950, Serial No. 158,245
1 Claim. (Cl. 115—18)



The combination with an outboard motor including a shaft housing and a rearwardly extending propeller carried thereby, laterally extending arms secured to the shaft housing above the pro-

peller, a substantially V-shape reversing blade, in plan, disposed rearwardly of the propeller when in operative position with its sides diverging forwardly and terminating to the rear and on opposite sides of the propeller, forwardly extending brackets rigidly secured to the forward upper sides of the reversing blade and having their forward ends pivotally connected to opposite ends of the laterally extending arms, a laterally extending bearing secured to the upper surface of the reversing blade adjacent its rear end, a collar secured to the shaft housing adjacent its upper end, a short shaft journalled in said collar, rearwardly and downwardly extending levers fixed to opposite ends of said short shaft, links pivotally connected at their forward ends to the lever with their rear ends pivotally connected to said laterally extending bearing on the reversing blade, abutment lugs formed on the adjacent of the levers and links limiting downward movement of the reversing blade, and a handle formed on the upper end of one of the levers.

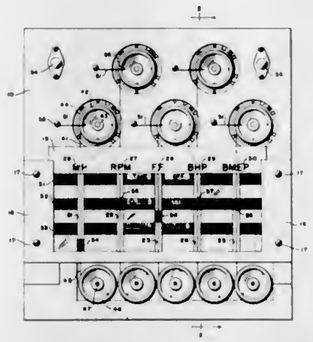
2,608,947
GAUGE
Warren Ames, Newton, Mass., assignor to B. C. Ames Co., Waltham, Mass., a corporation of Massachusetts
Application July 31, 1948, Serial No. 41,751
3 Claims. (Cl. 116—129)



1. An indicating gauge comprising a support, a dial and cooperating pivoted indicator hand carried by said support, said dial being annular, said support being formed to present a recess, in which recess said dial is received with its under side resting on a bottom surface presented by said recess and with its outer peripheral edge fitting an interior annular surface presented by said recess for rotation of said dial relative to said support coaxially of the pivot of said indicator hand, a member in said recess secured to said support having an annular portion cooperating with an upwardly facing surface of said dial adjacent its inner periphery for retaining said dial in operative relation to said surfaces of said recess, a crystal covering said recess, said dial adjacent its outer periphery carrying a series of gear teeth extending circumferentially thereof, a pinion carried by said support meshing with said gear teeth, and a manually rotatable part exposed at the exterior of said support for rotating said pinion.

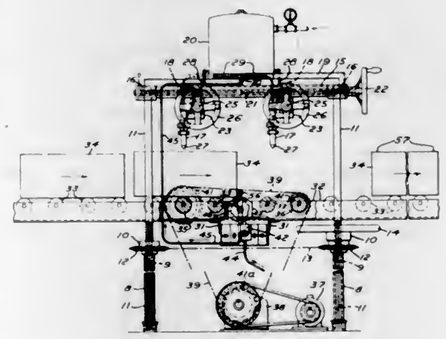
2,608,948
INDICATING INSTRUMENT
James E. Forbes, United States Navy
Application June 30, 1945, Serial No. 602,629
8 Claims. (Cl. 116—135)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An indicating instrument comprising a dial having a plurality of slideways extending across the dial in parallel relationship to each other, a marker mounted slidably in each of the slideways, individual means for shifting each of said markers along its slideway a distance bearing a predetermined relation to the distance each of the other markers is shifted, said means including a tension element anchored to the marker



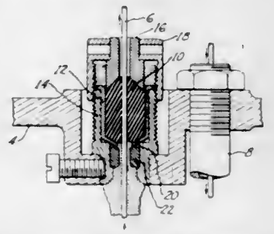
and extending longitudinally along the slideway, a pulley wheel, means for rotating said pulley wheel, a second pulley for the tension element at the opposite end of the slideway, and a takeup spring associated with the second pulley wheel.

2,608,949
GLUE-SPOTTING APPARATUS
Felice George Pasotti, Muncie, Ind., assignor to Ball Brothers Company, a corporation of Indiana
Application November 28, 1947, Serial No. 788,720
8 Claims. (Cl. 118—8)



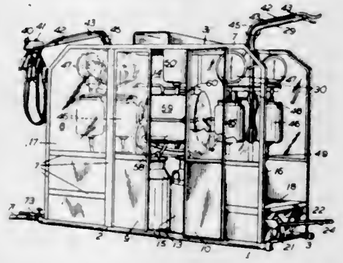
1. A glue-spotting apparatus for containers including an air-actuated glue delivery nozzle and a valve for delivering puffs of actuating air under pressure to said nozzle, in combination with a conveyor along which containers are movable to and beyond a glue-spotting position with relation to said nozzle, and an actuating device for said valve extending into the path of travel of containers traversing said conveyor and engaged and moved to a valve actuating position by each successive container traversing said conveyor and impelling means for engaging each container in contact with said device and moving such container at an increased rate out of contact with said device.

2,608,950
THREAD WAXING DEVICE
Robert L. Bradley, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 9, 1950, Serial No. 167,134
2 Claims. (Cl. 118—125)



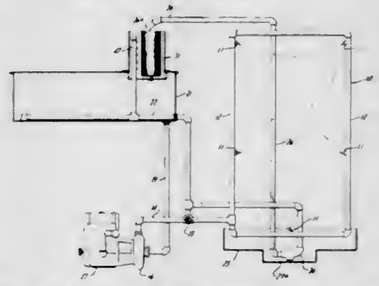
1. A thread waxing device having a stripper sleeve formed with one end open and a perforated wall at the other end into which the thread enters, a socket within which the sleeve is disposed having a counterbored opening in line with the perforation in the end wall of the stripper sleeve, a compressible perforated wax stripper plug disposed in the stripper sleeve and a compressor acting at the open end of the sleeve on the stripper plug to secure the plug and sleeve within the socket, in combination with a refractory bead formed with an opening for the thread, mounted in the counterbore of the socket with its opening in line with the perforation in the plug and secured in place within the counterbore of the socket close to the perforated end of the stripper plug.

2,608,951
MILKING MACHINE
Jonas A. Kingston, Tilehurst, near Reading, England, assignor to Gascoignes (Reading) Ltd., Reading, England, a British company
Application March 10, 1950, Serial No. 148,812
In Great Britain March 15, 1949
4 Claims. (Cl. 119—14.09)



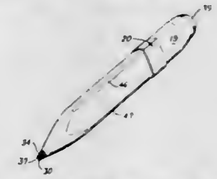
1. A transportable pneumatic milking machine comprising, in combination, a wheeled chassis; a covered body including a roof, supported on said chassis and consisting of a central low level can-supporting platform between two end cubicles; upright pillars mounted for rotation about vertical axes, one in each of said end cubicles; arms radially extending one from each upright pillar for swinging in a substantially horizontal plane over the roof of said body; at least one pulsator mounted on the outer end of each radial arm and at least one teat cup cluster associated with each pulsator and suspended from the outer end of said radial arm; milk-yield weight indicating appliances of dial-type, one for each teat cup cluster and each mounted on one or other of said rotatable pillars; milk collecting containers, one for each teat cup cluster and also each mounted on one of said rotatable pillars, so that the dial of a weight-indicating appliance always faces toward the outer end of its associated arm; a milk receiver mounted over the can-supporting platform; a milk cooling unit mounted above said can-supporting platform but below said milk receiver; sealing heads adapted to co-operate each with a can stood on said can-supporting platform, and milk and vacuum conduits connecting the teat cup clusters to the respective milk collecting containers, the said containers in common to the milk receiver, the milk receiver to the milk cooling unit and the sealing heads to the milk cooling unit, to constitute closed fluid systems so that milk is delivered under conditions of controlled vacuum.

2,608,952
SPRAYING SYSTEM
Charles C. Herbert, San Jose, Calif., assignor to Livestock Sprayer Mfg. Co., San Jose, Calif., a corporation of California
Application October 3, 1947, Serial No. 777,727
13 Claims. (Cl. 119—159)



1. In a fluid circulating system; nozzle means disposed therein; a liquid supply tank; a pressure pump having its intake in communication with said supply tank; a main delivery pipe communicating with the outlet of said pump; a first branch pipe communicating at one of its ends with said main delivery pipe and at its other end with said nozzle means for delivering liquid to said nozzle means; a rotatable strainer positioned to discharge strained liquid to said supply tank; and other branch pipe means communicating with said main delivery pipe and arranged to discharge liquid into said rotatable strainer and against said strainer substantially tangentially with respect thereto for rotating the strainer by hydraulic power generated by said pressure pump transmitted through said main delivery pipe and said other branch pipe means.

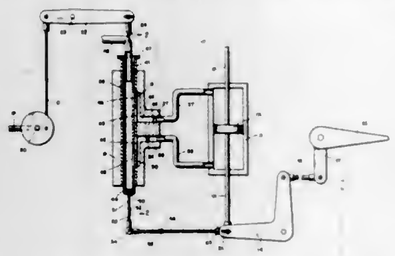
2,608,953
THREE-COLOR WRITING IMPLEMENT
Paul Kollsman, New York, N. Y.
Application April 12, 1949, Serial No. 86,939
2 Claims. (Cl. 120—42.12)



1. A three-color writing implement comprising in combination, a hollow barrel having three

substantially flat outer surfaces adapted to rest on the thumb, index finger and middle finger of a writer, the said surfaces lying at an angle of substantially 60 degrees with respect to one another; three removable ink cartridges lying in said barrel in wall-to-wall contact with one another, each of said cartridges having an extension of a smaller diameter than the diameter of the respective cartridges, said extension terminating in a ball point and socket extending from the forward ends of the barrel, said extensions lying in wall-to-wall contact with one another at said sockets, said barrel having provision for positively engaging said extensions in a position in which the three extensions form corners of a triangle inverted with respect to the triangle formed by said three surfaces; a plug attachable to the rearward end of the barrel for engaging the ends of said cartridges to hold them in the position in which their extensions project from the forward end of the barrel; and color markings on the barrel, one of the markings facing upwardly to indicate the color of the ink of the respective cartridge whose extension is lowermost and in writing position.

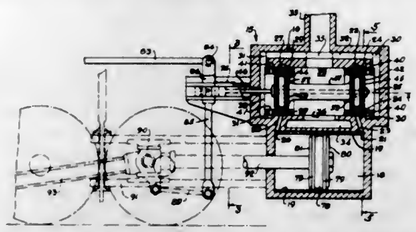
2,608,954
HYDRAULIC CONTROL VALVE WITH AUTOMATIC FOLLOW-UP
Horace C. Hogan, Jr., Charlestown, R. I.
Application February 26, 1948, Serial No. 11,233
5 Claims. (Cl. 121—41)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a control valve, a block having separate bores therein, a pair of tubes one within the other in each bore, the inner tube of one pair connected to pressure and the inner tube of another pair connected to exhaust, each tube having spaced ports movable into and out of register with those of its companion tube, the block having spaced recesses along each bore and openings extending therefrom, cross connections between opposite openings, plugs closing the outer ends of the openings from one bore, means for moving one tube of each pair to register the ports of both tubes of both bores to provide fluid pressure and return exhaust passages through the unplugged openings and cross connection of the block, and means to move the other tube of each pair to close communication through said ports.

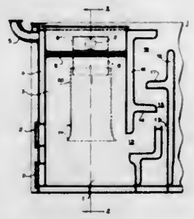
2,608,955
VALVE ACTUATING APPARATUS FOR ACTUATING VALVES OF STEAM ENGINES, LOCOMOTIVES, OR THE LIKE
Thomas J. Hoy, Newark, N. J.
Application April 5, 1948, Serial No. 18,990
14 Claims. (Cl. 121—124)

1. In a reciprocal steam engine, locomotive or the like having a cylinder with a piston positioned in the cylinder for reciprocal movement, means providing separate cylindrically-shaped steam admission and steam exhaust chambers, the longitudinal axes of said chambers being parallel to the longitudinal axis of said cylinder and to each other, said longitudinal axes of the chambers being adjacent one another but in different parallel planes, each of said separate chambers being in communication with the cylinder adjacent opposite extremities of the stroke of the piston, an admission piston valve operable in the steam admission chamber, an exhaust piston valve operable in the exhaust steam chamber, said valves respectively being adapted to control the passage of steam from the admission chamber to the cylinder and the passage of steam from the cylinder to the exhaust cham-



ber, a lever arranged for reciprocal movement in the plane of the longitudinal axis thereof toward and away from said steam chambers, a pivot on which the lever is rotatively mounted, the pivot being disposed so that said lever also has pivotal movement on an axis transverse to its longitudinal axis, actuating means connected to the lever and adapted to impart said reciprocal and said pivotal movement thereto, the intake valve having a valve stem connected to said lever so that the lever actuates said intake valve, and the exhaust valve having another valve stem connected to said lever so that the lever actuates the exhaust valve, said valve stems being so connected to the lever that each of said stems is actuated from points a different distance from the pivot.

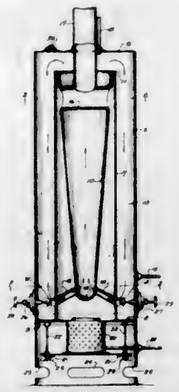
2,608,956
CIRCULATION INDUCING DEVICE FOR RETURN WATER CONNECTION IN HEATING BOILERS
John Anders Rydberg, Stockholm, Sweden, assignor to Aktiebolaget Gustavsbergs Fabriker, Gustavsberg, Sweden, a corporation of Sweden
Application February 1, 1949, Serial No. 73,889
In Sweden January 30, 1948
4 Claims. (Cl. 122—159)



1. In a heating boiler having wall structure providing a vertical water leg with an inner and an outer wall, a channel structure vertically positioned within said leg and providing a mixing chamber of restricted cross-sectional area as compared with that of the leg, said chamber being defined in part by the outer wall of the leg and communicating at its top and bottom with

the water space of said leg and a nozzle of slightly less cross sectional area than said chamber disposed in said leg for discharging return water into the upper part of said channel structure to draw hot water from the top of the boiler into said channel structure to mix with the return water in said chamber and be discharged into a lower portion of said water leg due to the ejector action of said nozzle.

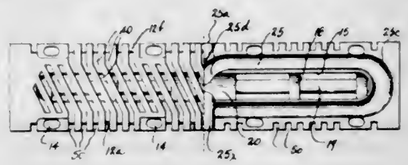
2,608,957
WATER HEATER
Adolph A. Glawe, Green Bay, Wis.
Application November 12, 1948, Serial No. 59,703
1 Claim. (Cl. 122—165)



In a water heater, an outer casing; a smooth surfaced tubular inner shell within said outer casing and spaced therefrom to form an annular water chamber, means for closing the bottom of said water chamber; a smooth surfaced inverted conical tank of not substantially less length than said inner shell positioned within said inner shell to form a combustion chamber of decreasing cross-section from bottom to top, there being communication between said conical tank and said water chamber at the upper ends thereof; a plurality of conduits, within the combustion chamber formed by said conical tank and said inner shell, connecting a lower end portion of said conical tank with a lower end portion of said water chamber; a valve member in said annular water chamber for each conduit positioned to selectively close the adjacent end of said conduit to prevent the flow of water therethrough, said valve members each having an externally accessible manually operable stem which projects through the outer casing; a flue extending into said combustion chamber through said conical tank, all portions of said flue being substantially above the horizontal outer line of the conical tank; a cold water inlet conduit entering a lower end portion of said outer casing; and a hot water conduit extending through said outer casing and having its inner end positioned above said conical tank, said outlet conduit being at all times in direct communication with the interior of said conical tank and with said annular water chamber.

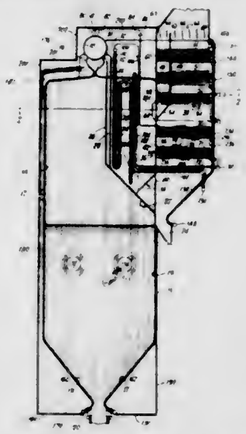
2,608,958
GRATE BAR
Charles M. Hazelton, Seattle, Wash.
Application August 20, 1949, Serial No. 111,438
4 Claims. (Cl. 122—374)

1. A watercooled furnace grate comprising a plurality of grate bars mounted in juxtaposition; each bar comprising a flat base section and a flat top section disposed thereon, and a continuous pipe for circulation of the cooling medium therein, formed into a succession of loops disposed in the grate between the base and top sections of the said bars; each of said base sections being formed therethrough with a central, longitudinal air slot extending substantially to the full length of the bar and there being a channel in the top surface of said section, leading thereinto at one side of



the bar and continuing entirely about the said air slot and opening at its other end to the opposite side of the bar; said top section having a succession of transversely directed slots thereacross substantially throughout its length and opening downwardly through the bar into direct communication with the longitudinal air slot of the base section, and there being a channel in the under surface of the top section registering with the channel of the base section and containing a coil of the said pipe therein.

2,608,959
STEAM GENERATOR
Charles H. Woolley, Cranford, N. J., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application December 30, 1947, Serial No. 794,633
6 Claims. (Cl. 122—477)



1. In a steam generator and superheater installation, a furnace, means forming a heating gas passage extending laterally from a side of the furnace near its upper part and having diverging top and bottom walls, an upright wall at the rear of said passage, a superheater including a blank of vertically disposed serially connected tubes disposed substantially normal to gas flow in said passage and at a position spaced forwardly of said upright rear wall, means forming a gas outlet between the lower end of said rear wall and the lower end of said bottom wall, means forming an upright gas pass leading from said gas outlet, upper and lower groups of heat

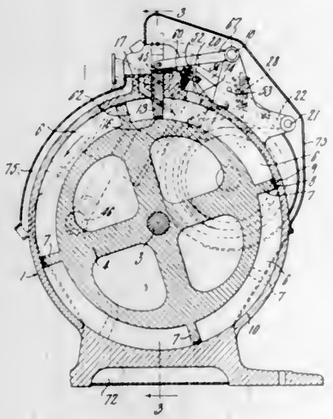
absorbing tubes in said upright pass, said upper heat absorbing tubes constituting a feed water heater and the lower group of tubes constituting a part of the superheater, each of said tube groups constituting a plurality of circuits with serially connected tube portions of each circuit extending horizontally across said last mentioned pass, an upright baffle disposed rearwardly of said upright rear wall and combining therewith to form a gas by-pass through which the superheater in the upright gas pass may be bypassed, the by-pass having at its lower portion an inlet through said upright rear wall, and damper means controlling the gas flow through the bypass.

2,608,960

SLIDING ABUTMENT TYPE ROTARY INTERNAL-COMBUSTION ENGINE

Friedrich Kunz, Lucerne, Switzerland

Application August 7, 1947, Serial No. 767,263
In Switzerland March 30, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 30, 1963
9 Claims. (Cl. 123—14)



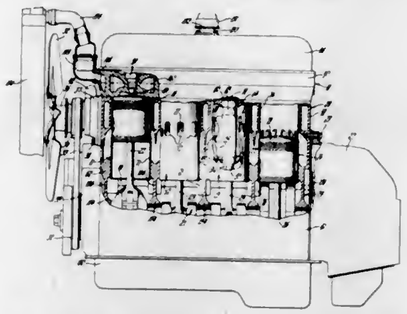
1. In a motor, in combination, a casing, a shaft rotatably journaled in said casing, rotor means fixedly secured to said shaft, said rotor means being provided with at least two axially spaced rotary compartments, first control means for admitting a motive fluid to one of said compartments, thereby imparting a torque to said shaft, and subsequently discharging said motive fluid therefrom, second control means for admitting a motive fluid to the other of said compartments, thereby imparting a similar torque to said shaft, and subsequently discharging said motive fluid therefrom, and operating mechanism for alternately actuating said first and second control means, said operating mechanism comprising a cam wheel, mounting means rotatably securing said cam wheel to said casing in axially displaceable manner, transmission means coupling said cam wheel with said shaft for synchronous rotation, and linkage means engaging said cam wheel and controlled by said rotor means for placing said cam wheel in a first axial position during certain and in a second axial position during other revolutions of said cam wheel, said first control means including first cam follower means positioned to be displaced by said cam wheel in said first axial position only, said second control means including second cam follower means positioned to be displaced by said cam wheel in said second axial position only.

2,608,961

COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES

Harold H. Albinson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application April 22, 1950, Serial No. 157,585
44 Claims. (Cl. 123—41.28)



15. An engine cooling system comprising a water pump having an outlet, an engine block having a lubricant cooler secured thereto and a jacket surrounding said cooler and connected to said outlet, said engine block having a plurality of exhaust passages extending throughout the length of one side thereof for exhausting the cylinders of said engine, a cooling water distribution manifold formed in said block below said passages and extending from one end to the other of said block, a water supply conduit connected at one end with said lubricant cooler jacket beyond said lubricant cooler in said jacket and at the other end to the middle portion of said distribution manifold, a plurality of exhaust cooling passages formed in said block and communicating with said distribution manifold throughout the length of said distribution manifold and extending normally from said distribution manifold and upwardly in said block between said exhaust passages in said block, a plurality of cylinder cooling cavities formed in said block and communicating with the upper extremities of said exhaust cooling passages, said cavities being formed in said block around the head ends of said cylinders and being adapted to extend downwardly of said cylinders on the side of said block opposite said exhaust passages, and outlet means formed in the upper part of said block for exhausting said cooling water from the upper parts of said cylinder cooling cavities.

2,608,962

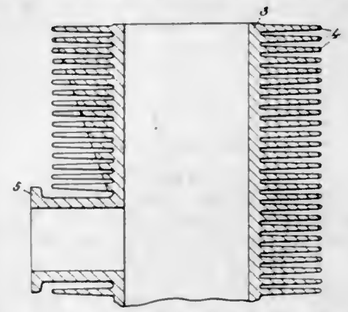
WORKING CYLINDER FOR AIR-COOLED COMBUSTION ENGINES

Richard Kloss, Cologne-Buchforst, Erich G. Engels, Cologne-Niehl, and Peter Combüchen, Bergisch-Gladbach, Germany, assignors to Klockner-Humboldt-Deutz Aktiengesellschaft, Cologne, Germany

Application April 2, 1951, Serial No. 218,852
In Germany May 19, 1950
7 Claims. (Cl. 123—41.69)

5. A working cylinder for air cooled internal combustion engines provided with cooling fins having their major surfaces located in planes transverse to the longitudinal axis of said cylinder and also provided with a discharge stud subdivided by a web extending in longitudinal direction of said cylinder and having a slit-like passage therethrough extending in longitudinal direction of said cylinder and through said stud,

at least the majority of the cooling fins located on one side of said stud being provided with relatively long and narrow notches having their greatest depth adjacent said stud and decreasing in depth away from said stud.

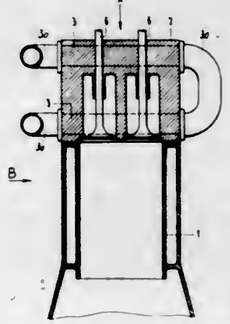


2,608,963

ARRANGEMENT FOR AND METHOD OF TRANSFERRING HEAT AND COLD FROM AND TO MACHINE PARTS

Kurt Haase, Melkendorf, near Kulmbach, and Walter Ostwald, Heppenheim, Germany, assignors to Südwerke G. m. b. H., Kulmbach, Germany

Application December 29, 1949, Serial No. 135,771
In Germany December 30, 1948
5 Claims. (Cl. 123—41.82)



1. In combination, a cylinder head having conduit means of substantially equal cross section throughout the length thereof for passing a cooling or heating medium therethrough, said conduit means being composed of a plurality of individual sections with each section open at both of its ends, and pipe means detachably connected to the outside of said cylinder head and interconnecting said individual sections of said conduit means.

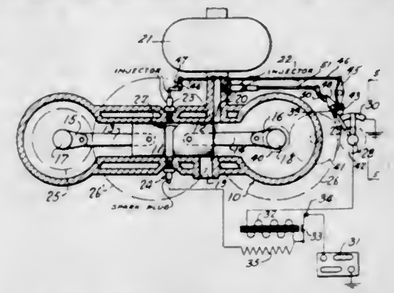
2,608,964

OPPOSED PISTON ENGINE

Marion Mallory, Detroit, Mich.

Application September 30, 1949, Serial No. 118,868
5 Claims. (Cl. 123—51)

1. An internal combustion engine comprising a cylinder, opposed pistons in the cylinder, mechanical connections between the pistons reciprocating one of the pistons twice to one reciprocation of the other piston, means for burning a charge between the pistons, said connections positioning both pistons at inner dead center when the charge is fired, an exhaust port at the end of the cylinder in which the slow piston works and positioned at a point where the slow piston starts to uncover it when the fast piston has traveled from firing position to a point approximately 31° past outer dead center, an inlet port through the cylinder wall substantially opposite the exhaust port but somewhat nearer the end of the cylinder.



2,608,965

COMBUSTION ENGINE CYLINDER HEAD CASING

Gustav Pielstick, Saint-Germain-en-Laye, France

Application October 5, 1949, Serial No. 119,609
In France October 12, 1948
5 Claims. (Cl. 123—90)

5. In a combustion engine, a cylinder-block, a cylinder head with a peripheral securing flange and securing studs spaced around said flange, said cylinder head having an active area in which valve means for said cylinder are located, pivotal rocker means for operating said valve means, and a cylinder head casing, said casing comprising generally cylindrical walls and means to secure said casing walls in upstanding relation from said active cylinder head area concentrically therewith in radially inward relation to said securing studs, and means in said cylindrical walls defining bearings to support the pivots for said rocker means, said bearings overlying a region substantially outside said active area whereby the operating stresses from said rocker means are not substantially transmitted to said active area, and a lateral extension in said casing to house the outer arms of said rockers.

2,608,966

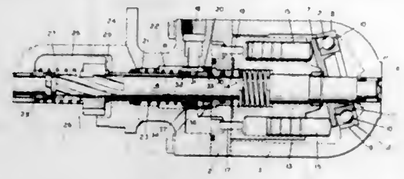
HYDRAULIC STARTER

Albert C. Jenny, Cleveland, Ohio, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware

Application May 24, 1951, Serial No. 228,005
3 Claims. (Cl. 123—179)

1. An hydraulic starter for engines comprising a housing, a rotatable drive shaft, a sleeve splined

thereto for sliding movement thereon and for rotatable drive thereby, said sleeve having a piston head at its one end and a starter pinion at its other end for engaging an engine gear, an hydraulic motor for driving said shaft, a porting plate, a fluid inlet and outlet port for said housing, said motor having an inlet and outlet port, said motor having an inlet port, means for imparting hydraulic driving power to said sleeve to extend it and said pinion to a predetermined extent while simultaneously imparting hydraulic driving power to said motor to rotate said shaft relatively slowly and upon further extension of said pinion into mesh with the gear to be driven



thereby to rotate said shaft and pinion at a relatively greater speed, said means comprising spring means for normally retracting said starter pinion, an annular chamber surrounding said sleeve, a spring in said chamber for normally retracting said pinion and maintaining a restricted communication between said inlet port and said annular chamber, a restricted chamber on the opposite side of said piston from said spring and a restricted communication between said annular chamber and said restricted chamber, for metering the fluid flow from the inlet port to the restricted chamber until said piston is forced past said inlet, at which time full fluid flow is obtained from said inlet motor.

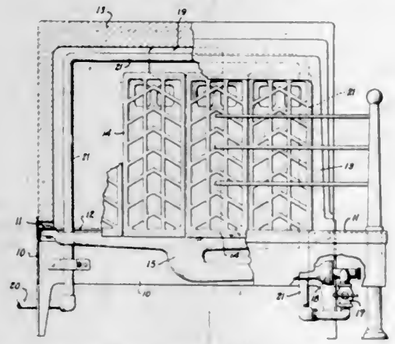
2,608,967

SPACE HEATER WITH MEANS TO PREHEAT FUEL THEREFOR

Willis E. McCrory, deceased, late of Okmulgee, Okla., by Ralph W. Morgan, executor, Wichita Falls, Tex.

Application March 8, 1949, Serial No. 80,121

1 Claim. (Cl. 126—92)



A space heater for burning natural petroleum gas fuel comprising, in combination, means defining a heating chamber having an open front, a burner having fuel outlets at the bottom of said chamber, refractory radiant heating means over said burner covering said outlets and extending upwardly into said chamber, an air-fuel mixing element for said burner positioned adjacent said burner, a fuel supply means, and a fuel inlead conduit connected to said mixing element to supply fuel to said burner, said conduit having a portion leading to said mixing element from said fuel supply means, said fuel conduit being positioned in said chamber adjacent and laterally of said radiant heating means in heat exchange relation therewith and out of line with said burner fuel outlets whereby fuel in said portion of said inlead conduit may be preheated and is not exposed directly to flames from said burner.

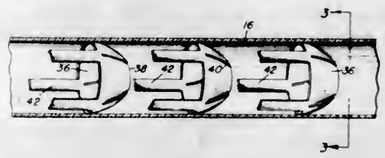
2,608,968

SOLAR HEAT CONVERTER

Mortimer H. Moseley, Eddyville, Ky.

Application October 30, 1950, Serial No. 192,953

6 Claims. (Cl. 126—271)



1. In a solar heat absorber having a tube of diathermic material containing a radiant energy absorbing fluid, a plurality of cup shaped radiant heat absorbing members having an axial opening disposed in said tube in axial alignment therewith, each of said members being longitudinally spaced from each other with the concave face of each member registering with the convex face of the adjacent member, the fluid to be heated being passed through said tube and through the openings in said members, a plurality of circumferentially spaced arms extending from the edge of each cup member and yieldingly engaging the inner surface of said tube to retain said members in a predetermined position therein.

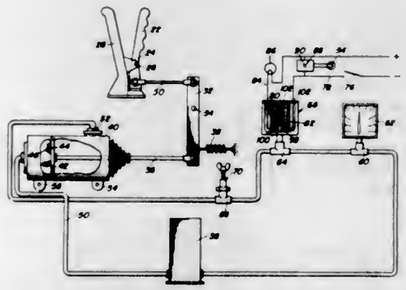
2,608,969

HYPNOSIS ASSISTING DEVICE

Alan M. Gordon, Madison, N. J.

Application July 27, 1950, Serial No. 176,215

6 Claims. (Cl. 128—1)



1. A device to assist in inducing hypnosis comprising a case, a fluid operated dynamometer disposed in said case, a handle connected with said dynamometer to operate said dynamometer, a fluid flow control device connected with said dynamometer for controlling the difficulty of actuation of said handle whereby an illusion of failing strength of the operator of the handle may be obtained.

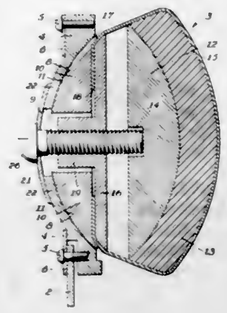
2,608,970

SURGICAL TRUSS WITH ADJUSTABLE PAD

William L. Conner, Philadelphia, Pa.

Application November 19, 1949, Serial No. 128,462

4 Claims. (Cl. 128—110)



4. A truss device for applying localized pressure to a hernia comprising, in combination, a base normally supported on a body belt, a pressure ball, a plural part clamping means interposed between said base and ball but separate from each of the same, a cover enclosing said ball and extending between the plural parts of the clamping means to be held thereby, and a screw extending through said base and threaded into said clamping means to draw the same to said base, said screw extending through and beyond said clamping means to engage the pressure ball to force the same relatively away from the clamping means while the latter is being drawn toward the base.

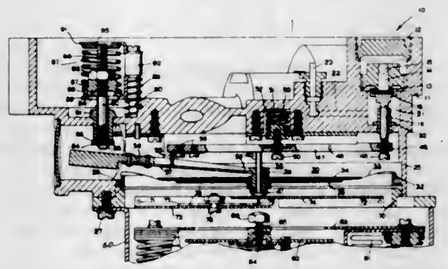
2,608,971

DEMAND VALVE CONTROL MECHANISM

Bradford B. Holmes, New York, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application November 17, 1948, Serial No. 60,585

15 Claims. (Cl. 128—142)



1. In a demand regulator having a casing adapted for connection to a breathing mask, a respiratory responsive diaphragm and a demand valve within the casing, a control mechanism for said demand valve comprising a pivoted lever for opening and closing said demand valve, a second pivoted lever actuated by the deflection of said respiratory responsive diaphragm for moving said first lever to open said demand valve, and means responsive to decreasing ambient pressure for applying pressure on said first lever independently of said second lever to open said demand valve.

2,608,972

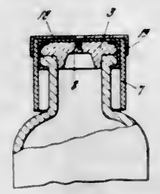
GUIDE FOR HYPODERMIC SYRINGES

Knut Vilhelm Chrigström, Hammarbyhojden, Sweden

Application May 16, 1949, Serial No. 93,492

In Sweden February 23, 1948

1 Claim. (Cl. 128—272)



In a device for facilitating the removal, by means of an injection syringe, of injection solution from a container whose neck is sealed by means of a member of a pierceable material, a cap adapted to be applied to said neck, a relatively thick hollow needle forming a straight and unobstructed passage secured in an eccentric position to said cap and adapted to pierce said pierceable member and to serve as a protective guide for the fine needle of the injection syringe, and an end piece turnably mounted on said cap and provided with an eccentrically located aperture which may be brought into and out of alignment with the channel of the piercing needle by a turning movement of the end piece.

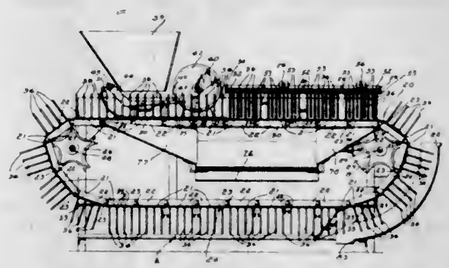
2,608,973

PEA HARVESTING AND THRESHING MACHINE

Burton C. Coons, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware

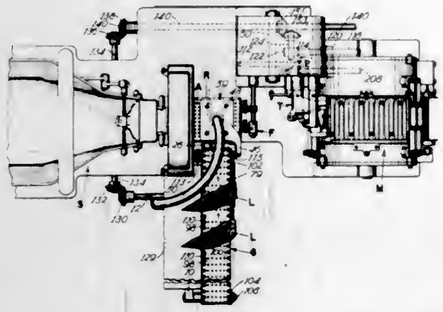
Application September 20, 1947, Serial No. 775,178

7 Claims. (Cl. 130—30)



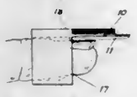
1. Arrangement for shelling unvined legumes comprising a conveyor line having a horizontal run, means for advancing said conveyor line, a plurality of longitudinal rows of first studs projecting upwardly from said line, means for delivering said unvined legumes onto said conveyor line at an initial portion of said horizontal run, means for reducing the length of the vines of said legumes at a subsequent portion of said horizontal run including a plurality of rotary knives disposed intermediately of adjacent rows of said first studs, a number of plates disposed parallel to and above a final portion of said horizontal run, each of said plates having a plurality of second studs projecting downwardly therefrom to be interposed between said first studs, and means for reciprocating said plates across said horizontal run in timed relation with an advance of said conveyor line.

2,608,974
CIGARILLO MACHINE
Lester Ferenci, Indianapolis, Ind., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application May 29, 1946, Serial No. 673,106
9 Claims. (Cl. 131—33)



1. In a cigar machine having a bunch rolling apron, the combination with an endless flexible conveyor having spaced sections adapted to retain binder leaf tobacco thereon for simultaneously forwarding a series of binder tobacco leaf sections transversely of the leaf sections to advance successive leaf sections on said spaced sections of the conveyor to a predetermined position, of a device at said predetermined position for trimming the ends only of the leaf sections advanced by said conveyor to form binders of a predetermined length, and mechanism for transferring said binders to the bunch rolling apron to be wrapped about cigar bunch charges by the apron for the formation of cigar bunches.

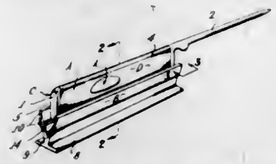
2,608,975
FINGER COMB
Mary Ann Shannon, Lakewood, Ohio
Application April 29, 1949, Serial No. 90,474
5 Claims. (Cl. 132—11)



1. A comb of the character described comprising an annular band, a plurality of teeth integrally formed therewith, said teeth projecting outwardly therefrom, said plurality of teeth describing an arc outwardly of the band; corresponding to the arc of said band, all but one of said teeth being of the same length and one of the end teeth being relatively longer than the other said teeth and beveled on its outer lateral face.

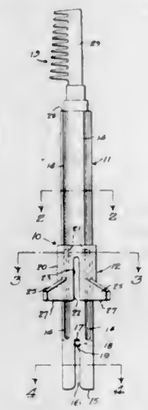
2,608,976
HAIR DYEING APPARATUS
Levi O. Kittle and Irene T. Kittle, Los Angeles, Calif.
Application March 4, 1948, Serial No. 13,032
11 Claims. (Cl. 132—12)

1. A hair dyeing apparatus comprising: a comb, absorbent pads overlying the outer surfaces of the comb and extended downwardly to a horizontal plane below the root line of the comb teeth, and a clamp overlying the comb and the pads and having tensioned sides bearing against the pads with the margins of said sides disposed in a plane above the adjacent margins of the pads and the edges of the pads extended from said clamp and disposed substantially above the teeth ends, said comb being recessed throughout its length for receiving said clamp so that the median surface of the clamp will be flush with the adjacent surface of the comb body.



4. An apparatus of the character described comprising: a comb, an absorbent applicator borne by the comb, and a liquid container in which said applicator and comb are removably supported, the combined liquid container and applicator support being internally chambered complementally to the external cross sectional form of the combined comb and applicator.

2,608,977
PIN CURL FORMING DEVICE
Otto F. Trippler, East Detroit, Mich.
Application March 29, 1950, Serial No. 152,614
2 Claims. (Cl. 132—33)



1. A pin curl forming device comprising a rod-like curl forming member having a diametrically-disposed curl-receiving slot extending transversely therethrough and into its interior from one end thereof, and a curl holding member having a sleeve portion slidably mounted on said curl forming member and having a bobby-pin guide slot therein alignable with said curl-receiving slot, said curl holding member having a plurality of circumferentially-spaced relatively narrow curl holding arms diverging outwardly from said guide slot, the circumferential widths of the spaces between said arms being a plurality of times the circumferential widths of said arms, the inner end portions of said arms being curved toward the sides of said guide slot.

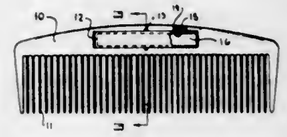
2,608,978
HAIR CURLER
Nathan L. Solomon, Englewood, N. J.
Application November 26, 1948, Serial No. 62,150
9 Claims. (Cl. 132—42)

1. A hair curler made of soft elastomer, said curler comprising a hair receiving stem, a flange connected to one end of the stem, a locking member formed from an outer portion of the flange at one side thereof, said locking member being separated from the remainder of the flange by a slot which extends a substantial angular extent around the stem, locking member retaining



means at the end of the stem remote from the flange, the length of the stem being such that the locking member is under tension when it is swung into curl locking position to lie along the length of the stem and with its inner surface engaging the retaining means on the stem.

2,608,979
COMPARTMENT COMB
William J. Martino, Garden City, Mich.
Application June 15, 1950, Serial No. 168,197
6 Claims. (Cl. 132—79)

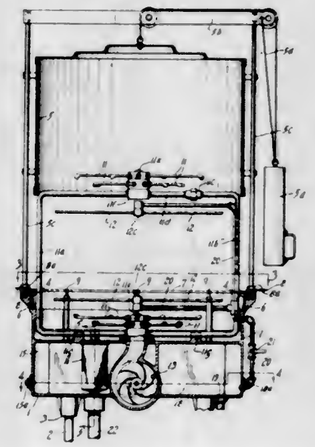


1. In a compartment comb, the combination of a body portion therein having an elongated transverse opening therethrough, a hollow container having an open end pivotally disposed within said transverse opening, said container being adapted to align with the body portion in the closed position and being adapted to move about its pivot axis to an angle transverse to the longitudinal axis of the body in the open position, thus providing access to the open end of the container in the open position.

2,608,980
CLEANING CUPREOUS ARTICLES
Clermont J. Snyder and Willis G. MacLelland, Hastings on Hudson, N. Y., assignors to Anaconda Wire and Cable Company, a corporation of Delaware
No Drawing. Application May 22, 1948, Serial No. 28,748
7 Claims. (Cl. 134—3)

1. In a process for removing scale from a cupreous article involving heating the article in a halogen-bearing atmosphere and subsequently cooling the article, whereby scale separates readily therefrom, the improvement which comprises introducing the article while substantially halogen-free into an atmosphere that is substantially free from fuel combustion products and from metal halide vapors, introducing a halogen into said atmosphere by supplying directly thereto and in gaseous form a substance of the group consisting of elemental halogens and halogen acids, and heating the article in said atmosphere to a temperature of about 1250° F.

2,608,981
DISHWASHING MACHINE
Otto V. Jackson, Geauga Lake, Ohio
Application February 3, 1944, Serial No. 520,972
6 Claims. (Cl. 134—102)



4. In combination, a washing machine having a body with an operating chamber in the top thereof, a substantially bell-shaped cover located over said chamber and having an opening in the side thereof and a closure therefor rotatably adjustable about the vertical axis of said cover from open to closed positions, a fluid supply means extending above said washing chamber and terminating in spray means thereabove and supporting said cover for rotatable adjustment about its vertical axis so as to permit said closure to be opened at different points about said chamber.

2,608,982
SHAFT BEARING SEAL
Erich R. Zademach, Hillside, and William W. Clarke, Summit, N. J., assignors to Metalwash Machinery Company, Irvington, N. J., a copartnership
Application October 5, 1943, Serial No. 504,988
17 Claims. (Cl. 134—122)



1. In a shaft seal, a wall having an opening, a shaft passing through said opening, a box closing said opening and having a snug rotative fit with said shaft, a packing ring of soft sealing material in said box forming a fluid-tight joint with said shaft, a gland collar of hard material integral with one end of said packing ring and embracing said shaft, said gland collar having a metal core ring encircling said shaft, and a radial set screw in said gland collar passing through said ring and adapted to impinge on said shaft to hold said gland collar in selective axial position along said shaft.

16. In an article treating apparatus of the type having a chamber for treating the articles with liquid, a wall for said chamber with an open-

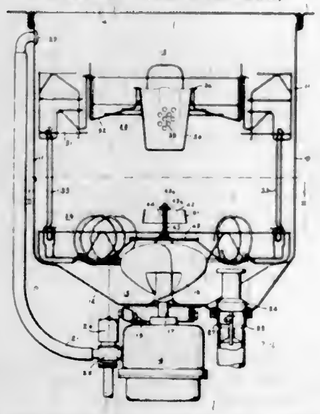
ing, and a shaft passing through said opening, the combination comprising a sealing device encircling said shaft adjacent to said opening for preventing leakage of liquid through said opening from the interior of said chamber, and including a box in said opening encircling said shaft, and means in said box sealing said shaft against leakage through said box and along said shaft, said box having a radially outwardly extending flange near its outer end, and an annular splash guard of rubber passing through said opening and snugly embracing said box, said splash guard extending into said chamber and having a radially outwardly extending flange near its outer end clamped between said box flange and said wall and serving as a gasket.

2,608,983

DISHWASHING APPARATUS HAVING A PROPELLER AND A FLUID DEFLECTING BAFFLE ASSOCIATED THEREWITH

James Gale Idle, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 23, 1945, Serial No. 630,344
4 Claims. (Cl. 134—183)



4. In a dishwashing machine, the combination of a vat having a sump formed in the bottom thereof for containing a body of washing water, spaced upper and lower dish-supporting racks disposed within the vat, a rotatable impeller disposed within the sump for projecting water upwardly and outwardly through a predetermined region of the vat, means for rotating the impeller, a water-deflecting skirt arranged substantially coaxially with respect to the impeller and spaced thereabove, said skirt having its lower edge disposed within said region of the vat for deflecting a portion of the projected water therefrom and said skirt having an axial length effective to direct the deflected water generally vertically toward the center of the upper dish-supporting rack and means carried by the lower rack for supporting the water-deflecting skirt.

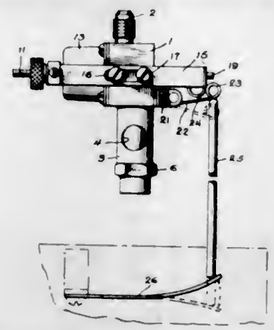
2,608,984

AUTOMATIC SHUTOFF FUEL VALVE

John L. Cahill, Dayton, Ohio

Application July 23, 1947, Serial No. 763,128
4 Claims. (Cl. 137—65)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a valve for a fluid fuel burner having a fuel supply line, a valve casing and valve for controlling the flow of fuel through the line, a valve operator comprising a cage having portions slidably connected to said casing, a valve stem connecting the valve to one portion of the cage, a spring cooperating with the cage to bias the valve to closed position, a gravity operated latch



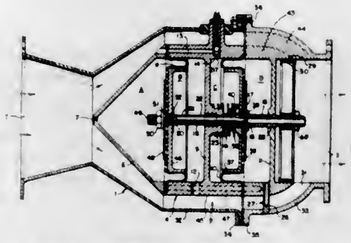
cooperating with the cage to releasably hold the valve in open position, a thermostat for maintaining the latch in its operative position under certain conditions, and a cam on the cage for supplementing gravity in moving the latch to inoperative position.

2,608,985

FLOW CONTROL VALVE

Robert A. Arthur, Santa Monica, Calif., assignor to The Garrett Corporation, Airesearch Manufacturing Company division, Los Angeles, Calif., a corporation of California

Application March 3, 1945, Serial No. 580,805
7 Claims. (Cl. 137—81)



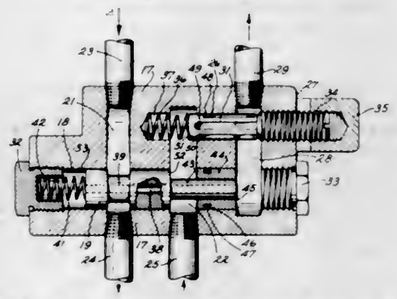
1. In a flow control valve, means defining a passage for the flow therethrough of a fluid to be controlled, there being high and low pressure regions therein, a valve element for throttling the flow through said passage; a power servomotor for moving said valve element, said servomotor comprising a pressure responsive element and means defining on the respective sides thereof a pair of fluid pressure chambers, one of which is in communication with the high pressure region of said passage; means for directing a restricted flow of fluid from a high pressure region of said passage into the other of said chambers; a tubular valve stem connecting said pressure responsive element to said valve element and providing a passage for the escape of fluid from said other chamber to a low pressure region of said passage; and means including a pilot servomotor responsive to a pressure differential between velocity head and static head within said passage, and a pilot valve pin actuated by said pilot servomotor and cooperating with said tubular valve stem for controlling said escape of fluid from said other chamber in such a manner as to cause said power servomotor to follow the movements of said pilot servomotor whereby movement of the pilot servomotor positions said pilot valve pin to restore the rate of flow through the device to a predetermined value.

2,608,986

FLUID FLOW CONTROL VALVE

William T. Stephens, Painesville, Ohio

Application July 23, 1945, Serial No. 606,585
3 Claims. (Cl. 137—102)



1. A fluid flow control valve for fluid operated apparatus comprising, in combination, a body having a longitudinal bore therein extending through the body from one end to the other and having a uniform diameter with end portions of the bore having threads cut therein from said diameter, a plunger slidable in the said bore, the body having a transverse passageway intersecting said bore adapted for connection to a supply conduit at one end and to an outlet conduit at the other end, a second transverse passageway intersecting said bore for connection to a return conduit, a third transverse passageway adapted to connect with said return conduit intersecting said bore and having a longitudinally extending portion intersecting said second transverse passageway, said portion of the third passageway having an orifice means therein constituting a restriction, said plunger having a portion of reduced diameter aligned with said supply passageway in a given position of the plunger, and an unreduced portion adapted to close said supply passageway when the plunger is moved from said given position by a pressure difference across the orifice means, a stem portion on the plunger extending longitudinally in the bore from said unreduced portion, threaded plug means for closing the ends of said bore, a sleeve fitted in the portion of the said bore between said second and third transverse passageways for receiving the stem on the said plunger, in a substantially fluid tight manner sealing means for sealing the sleeve in the longitudinal bore for closing communication between said second and third passageways through said longitudinal bore, fluid communication means between the third passageway and the end of the bore opposite to the stem, and biasing means opposing movement of the plunger from said given position by the pressure difference.

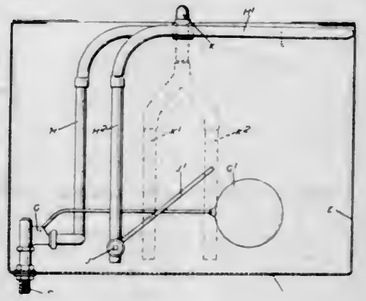
2,608,987

WATER SUPPLY OR CONTROL APPARATUS

Gilbert Collman, Newton Abbot, England

Application March 3, 1949, Serial No. 79,361
In Great Britain February 27, 1948
10 Claims. (Cl. 137—123)

1. A water supply and control apparatus including a reservoir, a main supply pipe, a float-operated control valve in the reservoir controlling the flow of water from the main supply pipe, and main and subsidiary delivery pipes both communicating directly with the outlet of the control valve to receive water therefrom and in free communication with each other, the subsidiary delivery pipe being arranged for the delivery of water from the said control valve to a point within said reservoir adjacent to the bottom thereof while the main delivery pipe is adapted to be led to at least one point below the level of water



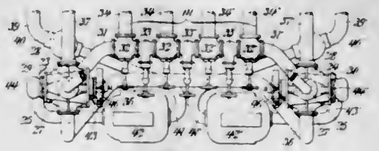
in the reservoir from which point water is to be drawn, the arrangement providing for water flow through the control valve into the reservoir through the subsidiary pipe and for water flow through the control valve direct to a point from which water is to be drawn without entering the reservoir, and for water flow from the reservoir by siphon action to said point independently and simultaneously.

2,608,988

DISTRIBUTOR CONTROL SYSTEM FOR LIQUIDS

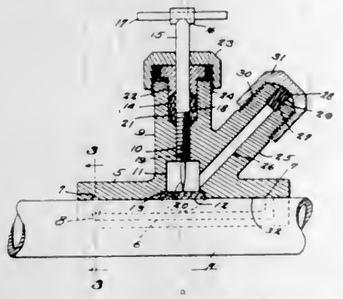
Ralph B. Ziegler, Philadelphia, Pa., assignor to Philadelphia Valve Company, Philadelphia, Pa., a copartnership

Application January 29, 1947, Serial No. 725,134
9 Claims. (Cl. 137—263)



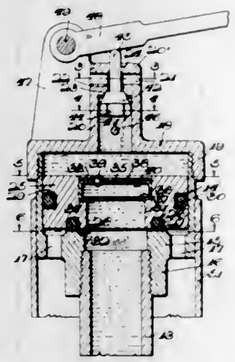
1. In liquid distributor-controlling means for tank trucks and the like including plural pumping sections, with respectively associated conduit arrangements; a manifold intermediate said pumping sections and said manifold comprising cross-valves with intervening gate-valves; multi-way plug-valves connecting the respective ends of said manifold to an associated pumping section and conduit arrangement for control of supply to, and discharge from the respective tank compartments; and dial-means on the stem of each plug-valve, said dial means bearing spaced characters registerable with a stationary pointer on the associated plug-valve whereby, when said valves are set at corresponding characters, a selective flow through the respective conduit arrangements and associated pumping sections is positively assured.

2,608,989
PIERCING VALVE
John W. McDonald, Grampian, Pa.
Application February 24, 1949, Serial No. 78,167
3 Claims. (Cl. 137—318)



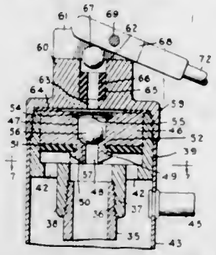
1. A conduit tapping valve adapted for mounting on an elongated length of tubular conduit, said valve comprising an elongated transversely concavo-convex saddle member adapted to receive a tubular conduit in the concave side thereof, a valve body carried by the saddle member and projecting perpendicularly from the convex side thereof, said valve body having a relatively large axial recess therein opening through the end thereof adjacent the saddle member, said saddle member having a bore opening through the concave side thereof and communicating with the recess, the bore being of greater diameter than the recess to form a shoulder at the junction of the bore and the recess, a sealing disc of fibrous material in the bore and seated against the shoulder, a valve stem threaded axially through the valve body and entering the recess, a piercing needle carried by the valve stem within the recess, and said valve body having a laterally extending bore extending therethrough and communicating with the recess.

2,608,990
VALVE ASSEMBLY
Thomas E. Crockett, Corpus Christi, Tex., assignor, by mesne assignments, to Crockett Valve Corporation, Los Angeles, Calif., a corporation of California
Application October 18, 1949, Serial No. 122,053
2 Claims. (Cl. 137—413)



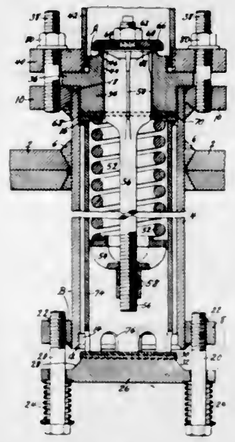
1. A float controlled valve comprising a casing provided with a main bore and having its top open and including a bottom wall, said bottom wall being provided with a relatively large central opening and a plurality of discharge openings surrounding the central opening and spaced radially therefrom, the upper surface of the bottom wall between the central opening and said discharge openings constituting a valve seat, a reduced depending sleeve formed integral with the bottom wall inwardly of the discharge openings and having a screw threaded opening to receive the upper screw threaded end of an inlet pipe, the screw threaded opening leading into said central opening of the bottom wall, a main piston valve mounted within the main bore of the casing for reciprocation and having an opening in its lower end which is substantially coextensive with said central opening of the bottom wall and in communication therewith, the main piston valve having an enlarged recess in its upper end forming a lateral shoulder, a sleeve mounted within the enlarged recess of the piston valve and having its lower end seated upon the lateral shoulder and including a top end having a restricted port, a strainer secured to the lower end of the last named sleeve and extending over said opening of the piston valve, an upwardly opening flap valve secured to the top of the last named sleeve and adapted to cover the reduced port, a cap removably mounted upon the upper end of the casing and having a bore leading into the main bore of the casing and a discharge port leading from the bore of the cap, a pilot valve mounted within the bore of the cap for reciprocation and adapted to cover and uncover the discharge port of the cap, a vertically movable float lever connected with the pilot valve to urge the same downwardly in the bore of the cap, and a float secured to the float lever.

2,608,991
TOILET FLUSH TANK MECHANISM
Thomas E. Crockett, Corpus Christi, Tex.
Application June 8, 1950, Serial No. 166,922
3 Claims. (Cl. 137—413)



3. A float controlled valve comprising a casing for connection with a supply pipe and having a main bore and a discharge opening leading from the main bore, a piston valve mounted within the main bore for reciprocation and having a restricted opening in communication with the main bore and said supply pipe, a cap for the upper end of the casing and having a discharge passage leading from the main bore of the casing, the cap having an enlarged recess in its upper end leading into the discharge passage of the cap, a resilient sleeve mounted within the enlarged recess and having its upper end terminating below the upper end of the enlarged recess, the bore of the resilient sleeve being in communication with the discharge passage of the cap, a ball valve mounted within the enlarged recess of the cap above the resilient sleeve and engaging the upper end of the resilient sleeve and adapted to cover the bore of the resilient sleeve, the ball valve projecting above the upper end of the enlarged recess, the cap having a transverse slot formed in its upper end and extending through a side of the cap, the slot forming laterally spaced upstanding shoulders above the upper end of the enlarged recess and disposed upon opposite sides of the enlarged recess, a lever pivotally mounted between the upstanding shoulders for vertical swinging movement and engaging the ball valve above the upper end of the enlarged recess to urge the same downwardly against the resilient sleeve, the lever maintaining the ball valve between it and the upper end of the resilient sleeve, and a float secured to the lever for actuating the same.

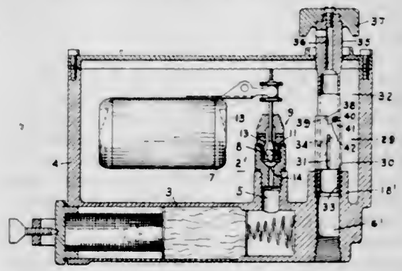
2,608,992
DUAL SAFETY VALVE ASSEMBLY
Clyde H. Folmsbee, Bloomsburg, and Jerome M. Martis, Wilkes-Barre, Pa., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application February 18, 1947, Serial No. 729,260
6 Claims. (Cl. 137—541)



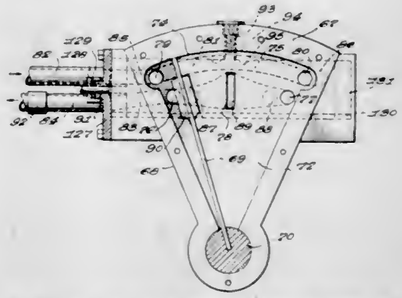
1. A dual valve construction comprising, a nozzle structure, a pressure relief valve assembly having at least portions thereof located within the nozzle structure, means retaining said pressure relief valve assembly portions in said nozzle structure and adapted to allow removal of said assembly, sealing means interposed between said assembly and nozzle structure to prevent leakage therebetween during at least part of the removal movement of said pressure relief valve assembly, a stop valve carried by said nozzle structure adjacent the inner end thereof, an extension on said pressure relief valve assembly holding said stop valve in spaced relationship to said nozzle structure when said relief valve assembly is retained in said nozzle structure by the retaining means, and a sealing means adapted to engage said nozzle structure and stop valve to prevent leakage therebetween following partial removal of said pressure relief valve assembly.

2,608,993
LIQUID FLOW CONTROLLING VALVE
Henry Andrews, Lansing, Mich., assignor to Piatt Products Corporation, Lansing, Mich., a corporation of Michigan
Application October 25, 1948, Serial No. 56,326
2 Claims. (Cl. 137—577)

2. A liquid flow controlling device comprising a casing having a reservoir, an inlet and an outlet, a valve in said reservoir comprising relatively rotatable substantially vertical inner and outer members having telescoping hollow cylindrical portions registering with the outlet, said telescoping portions each having a slot in its wall with one slot extending in a direction transversely of the other at an acute angle thereto and adapted to cooperate therewith to form a substantially vertically movable inlet orifice upon rotation of one of said members, said outer member having its upper end provided with substantially vertical shoulders with a lateral portion joining one of said shoulders and a downwardly notched portion joining the other of said shoulders and said lateral portion, and a pin secured to and extending transversely of said inner member and positioned between said substantially vertical shoulders and engageable with said lateral and notched portions.



2,608,994
CONTROL VALVE FOR POWER TRANSMISSIONS
George D. Hunter, Rocky Mount, N. C.
Original application July 5, 1941, Serial No. 401,248, now Patent No. 2,422,901, dated June 24, 1947. Divided and this application January 3, 1947, Serial No. 720,026
5 Claims. (Cl. 137—597)



4. A fluid control means comprising a valve casing, a valve body pivotally mounted in the casing, the valve body having an upper and a lower wall and two partition walls defining in the valve body an upper channel, a lower channel and a center channel, a fixed plate positioned intermediate said two partition walls and adapted to close the center channel upon pivotal adjustment of the valve body to a first position, said fixed plate extending parallel to said two partition walls and in spaced relation thereto so as to open said center channel upon adjustment of said valve body to a second position, a housing having a V-shaped chamber, a shaft mounted in the chamber for selectively positioning the valve body from the first to the second position and to a third position intermediate said first and second positions, a lever attached at one end to the shaft, and the lever adapted to pivot the shaft and

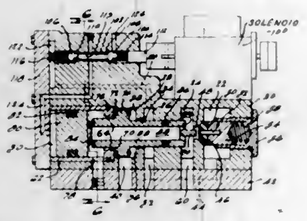
swing from one end of the V-shaped chamber to the other end thereof, inlet ports provided in the V-shaped chamber at opposite ends of the V-shaped chamber, outlet ports at opposite ends of the V-shaped chamber and another outlet port intermediate the opposite ends of the chamber, a multi-channeled slidable valve having channels arranged to selectively connect said inlet ports to a source of fluid pressure, and said slidable valve having other channels arranged to selectively connect said outlet ports to a discharge conduit, the channels being so arranged that when said slidable valve is so positioned as to connect only the inlet port at one end of the chamber to the source of fluid pressure, the inlet port at the opposite end is closed by said slidable valve while the outlet port at said opposite end is opened by said slidable valve and the outlet port at the same end as said first mentioned inlet port and the aforesaid other intermediate outlet port are closed by said slidable valve to cause pivotal movement of the lever and said valve body to the first and second of said positions at the will of the operator of said slidable valve, and said slidable valve having the aforesaid channels so arranged therein as to open both said inlet ports to the source of fluid pressure upon said slidable valve being adjusted so as to selectively open said outlet port intermediate the opposite ends of the chamber to the discharge conduit so as to cause pivotal movement of the lever and said valve body to the third of said positions at the will of the operator of said slidable valve.

2,608,995

SOLENOID ACTUATING REVERSING VALVE

Lawrence H. Gardner, Detroit, Mich., assignor to Automatic Valve, Inc., Farmington, Mich., a corporation of Michigan

Application May 1, 1946, Serial No. 666,269
25 Claims. (Cl. 137—623)



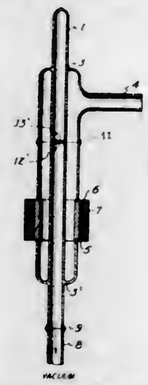
1. A fluid pressure control valve comprising a main supply chamber, an auxiliary supply chamber, ports for admitting fluid under pressure to said chambers, a first transfer chamber, a second transfer chamber, ports for connecting said transfer chambers respectively to opposite ends of a work cylinder, an exhaust chamber, an outlet port connecting said exhaust chamber to atmosphere, a first pressure supply passage connecting said main supply chamber to said first transfer chamber, an exhaust passage connecting said first transfer chamber to said exhaust chamber, a second pressure supply passage connecting said auxiliary supply chamber to said second transfer chamber, a normally closed valve controlling said second pressure supply passage, a tubular transfer valve open at its ends and connecting said second transfer chamber and said exhaust chamber, said transfer valve including valve portions arranged upon shifting of said transfer valve to alternately open and close said first pressure supply passage and to correspondingly close and open said exhaust passage, means on said transfer valve effective to open said normally closed valve when said transfer valve is in position to close said first pressure supply passage and to open said exhaust passage, and a valve member in said exhaust chamber effective to close the end of said transfer valve opening into said exhaust chamber when said transfer valve is in said last mentioned position.

2,608,996

GLASS VALVE

Ralph Forman, Hyattsville, Md., assignor to the United States of America as represented by the Secretary of Commerce

Application August 30, 1951, Serial No. 244,448
9 Claims. (Cl. 137—638)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



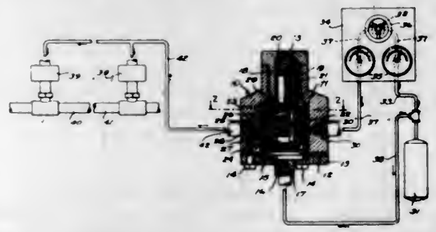
1. A valve comprising a first tube sealed at one end and having an optically ground surface at the other end, a second tube with both ends open and one of said ends being optically ground, said first and second tubes being so arranged that the optically ground surfaces are normally in contact with each other, mechanical means for holding said optically ground surfaces in firm contact and thermal means for elongating said mechanical means so as to pull apart said optically ground surfaces.

2,608,997

CONTROL VALVE

Jan Peter Cornelis Raven, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application January 12, 1946, Serial No. 640,887
3 Claims. (Cl. 137—654)



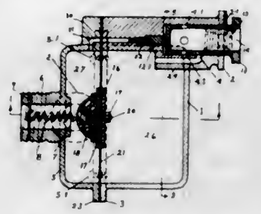
1. In combination with a valve having fluid-actuated setting means, said setting means being adapted to actuate the valve to a desired setting by fluid under pressure, a source of fluid under pressure, control means for controlling the flow of fluid under pressure, said control means having a fluid inlet and a fluid outlet, conduit means connecting said fluid inlet of the control means and said source, another conduit connecting the fluid outlet of the control means and the fluid-actuated valve setting means, a shut-off valve positioned in said other conduit at a point intermediate the fluid outlet of the control means and the fluid-actuated valve setting means, the shut-off valve comprising a body having a chamber with a fluid inlet in communication with the outlet of said control means and a fluid outlet in communication with the fluid-actuated valve setting means, fluid actuated locking means associated with said shut-off valve for sealing said chamber outlet to prevent the flow of fluid from the fluid-actuated setting means and thereby maintain the pressure therein, and a conduit in communication with said source of fluid under pressure and said fluid-actuated locking means so that fluid pressure at the source is transmitted to the fluid-actuated locking means, the locking means being operable to move to its open position so as to permit the flow of fluid from said chamber outlet when the fluid in said conduit is at a predetermined pressure and to move to its closed position so as to seal said chamber outlet when the fluid pressure at said source decreases below said predetermined pressure to thereby maintain fluid pressure on said valve setting means and retain said first mentioned valve at said desired setting.

2,608,998

AUTOMATIC SHUTOFF VALVE

Harry J. Criner, Davenport, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa

Application September 22, 1949, Serial No. 117,245
10 Claims. (Cl. 137—672)



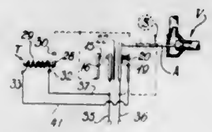
1. An automatic timer shut-off apparatus for a water hose or pipes, including a housing containing a flow chamber and a reservoir chamber separated by a flexible diaphragm, an inlet tube formed in the housing of the flow chamber, an outlet tube formed in the flow chamber housing spaced from the center of the diaphragm, a valve head united to the center of the diaphragm opposite the outlet tube and arranged to open and close a valve seat formed at the inner end of the outlet tube, and being secured by a bolt to washers on opposite sides of the diaphragm, a tension spring having one end attached to said bolt and its other end rigidly mounted upon a transverse pin in the outlet tube and arranged to hold the valve in closed position normally and to allow the valve to be opened by pressure of incoming water from the inlet, a tubular boss united to the housing, a port in said boss leading from the flow chamber to the reservoir, an internally threaded bore formed in said boss carrying a manually adjustable tubular plug threaded therein and open at its outer end, to the closed inner end of which a needle valve is united adapted to close or open the port in the boss as the plug is screwed in or out, ports extending through the sides of the tubular plug arranged to register with an outlet port formed in the housing of the reservoir when the plug is adjusted to certain positions whereby the water from the reservoir may be exhausted through the tubular plug.

2,608,999

ELECTRIC DELAYED-IMPULSE VALVE AND SWITCHING CIRCUIT THEREFOR

Byrhl F. Wheeler, Balston Spa, N. Y.

Application March 9, 1949, Serial No. 80,384
2 Claims. (Cl. 137—691)



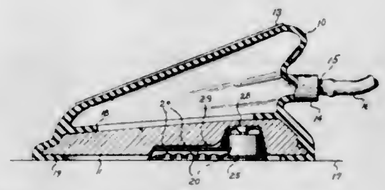
1. As a fuel valve for oil burners, an electric valve biased to closed position, having a solenoid and an armature, an electric initiating circuit in combination with said solenoid and arranged when energized to open said valve, an electric holding circuit in combination with said valve solenoid, switch contacts in series with said holding circuit biased to circuit opening position, a thermal time-delay switch in series with said initiating circuit and biased to open position including a heater adapted to be heated electrically and, when sufficiently heated, closing said thermal switch, contacts biased to closed position in series with said heater circuit, said initiating circuit being arranged to shunt said holding circuit upon closure of the thermal switch, thereby initiating an impulse energizing the holding circuit, and connecting means between the valve armature and the holding circuit contacts and the heater circuit contacts for opening said heater circuit contacts and closing said holding circuit contacts upon opening of the valve.

2,609,000

ANTISKID FOOT OPERATED BELLOWS

Douglas T. Mowbray, Waterloo, Iowa

Application December 21, 1949, Serial No. 134,169
4 Claims. (Cl. 137—777)



1. In a device of the class described, a resilient bellows having a bottom and two spaced apart inwardly extending continuous flanges formed near the bottom of said bellows, and a weight means detachably resting between said flanges.

2,609,001

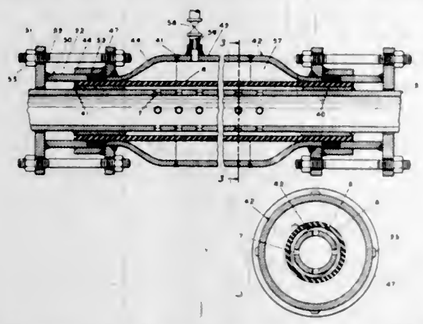
SURGE ABSORBING CHAMBER

Glen G. Hebard, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 13, 1947, Serial No. 754,554
2 Claims. (Cl. 138—26)

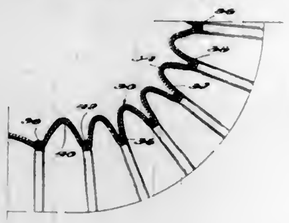
1. A surge absorbing chamber for a flow line comprising in combination a section of said flow line, a portion of said section of flow line being

perforate; a resilient sleeve surrounding and extending beyond the ends of said perforate portion of said flow line and having an interior diameter substantially greater than the exterior of the perforate portion of said flow line; means to space the ends of said resilient sleeve from said flow line; an outer shell enlarged intermediate its



ends to form a chamber surrounding said resilient sleeve; means to hermetically seal said chamber surrounding said resilient sleeve, and the space between said resilient sleeve and said flow line; means to charge said chamber with a gas under pressure; and means to prevent the pressing of said resilient sleeve against the perforate portion of said flow line.

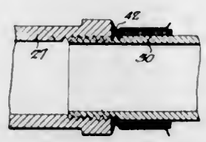
2,609,002
FLEXIBLE TUBING
William E. Meissner, Newark, N. J.
Application April 29, 1946, Serial No. 665,864
5 Claims. (Cl. 138—56)



1. As an article of manufacture, a compressible and bendable tubing comprising a flexible resilient tubular wall formed of at least two layers comprising a thermoplastic material, a reinforcing strand forming a helix of widely spaced courses coaxially disposed between said layers, the layers being bonded together between said courses to anchor said helix therein, and constituting a continuous spiral wall between courses of said helix, said wall having therein a stress normally biasing said wall into an arch of decreasing radius between said courses of said helix when said wall of said tubing is deformed whereby the direction of flexure of said wall arches said wall in a predetermined direction when said tubing is compressed or bent.

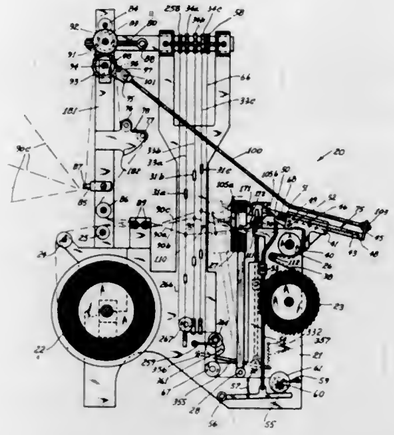
2,609,003
LEAK CLOSURE
Samuel M. Kass, Philadelphia, Pa.
Application December 4, 1945, Serial No. 632,759
2 Claims. (Cl. 138—99)

1. In a temporary pipe seal for sealing a leak in a pipe system including a shoulder, a cushion material of general T-section extending around the pipe and having the base of the T in contact with the shoulder, and a clamp extending around the pipe outside of and in contact



with the cushion material pressing against the base of the T on the side remote from the shoulder and also pressing against the body of the T and adapted to force the T down and endwise for sealing purposes adjacent the shoulder.

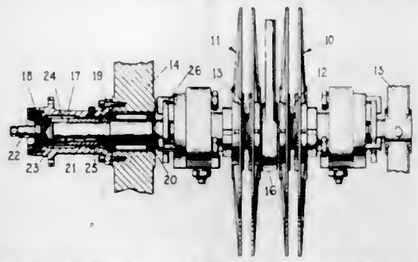
2,609,004
MACHINE FOR WEAVING LOOPS INTO FABRICS
Paul J. St. Jean and Willis Pruitt, Attalla, Ala., assignors to Lawrence Products Company, Inc., Attalla, Ala., a corporation of Alabama
Application April 6, 1950, Serial No. 154,402
18 Claims. (Cl. 139—38)



1. In a machine for weaving a fabric with loops thereon, in combination, a support, a plurality of sets of hooks on said support, one of said sets of hooks occupying an operative position, and mechanism selectively operable to transfer said one set to an inoperative position and to place another of said sets in said operative position.

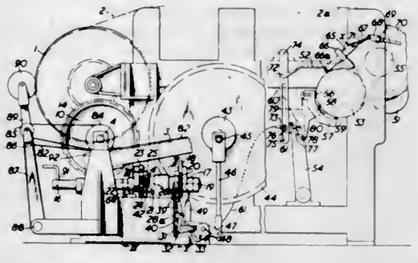
2,609,005
WARP BEAM COUPLING
Raymond L. Booth, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application January 5, 1950, Serial No. 137,021
11 Claims. (Cl. 139—97)

1. The combination with a yarn beam and a let-off means therefor, of a supporting and torque transmitting coupling which comprises a flange on one member, a collar on the other member, a tapered centering means carred by the collar and engageable within a correspondingly tapered aperture in the flange, means for clamping the collar and flange together and means for re-



straining relative rotation between the flange and collar and between the collar and beam.

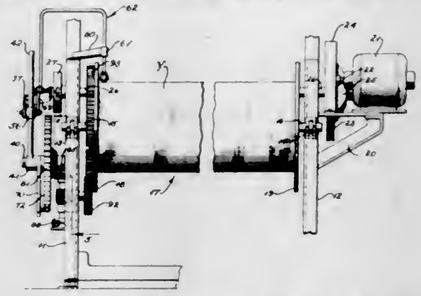
2,609,006
LETOFF DEVICE FOR TEXTILE MACHINES
Wilfred Lord, Keighley, England
Application April 28, 1948, Serial No. 23,835
In Great Britain April 9, 1947
9 Claims. (Cl. 139—108)



1. In a warp let-off mechanism, a device for re-winding a limited length of warp on a warp beam at predetermined tension, the said device comprising a given element, biasing means biasing said given element in a given direction, transmission means between said given element and said beam, whereby said biasing means bias said beam to rotate in the direction to wind said thread thereon, and regulating means whereby, in response to said given element moving in said given direction under the influence of said biasing means, and thereby rotating said beam and winding said thread thereon, said transmission means are adjusted in the sense to give said given element a component of movement in the opposite direction, whereby said given element remains substantially stationary despite the continuing rotation of said beam.

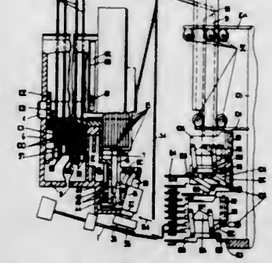
2,609,007
POSITIVE LETOFF MECHANISM FOR LOOMS
Charles Ross Beall, La Grange, Ga., assignor to West Point Manufacturing Company, West Point, Ga., a corporation of Alabama
Application May 19, 1949, Serial No. 94,175
9 Claims. (Cl. 139—108)

1. A loom comprising a rotatably-mounted warp beam a beam follower movably-mounted to maintain contact with the surface of warp yarn wound on the beam as said surface recedes toward the axis of the beam during let-off of the yarn, a lever mounted for pivotal oscillatory movement, means drivingly connecting the lever and the beam for converting the oscillatory movement of the lever to rotary motion of the beam whereby the angular velocity of the beam is directly proportional to the angular velocity of the oscillating lever, a constant-speed drive means, means for connecting said drive means to said lever at various positions of engagement along the length of the lever so as to oscillate said lever at an angular velocity inversely proportional to the



distance of the engagement position from the center of oscillation, and means controlled by the position of the follower for varying said distance in substantially direct proportion to the distance of the follower and yarn surface from the axis of the beam.

2,609,008
WEFT REPLENISHING APPARATUS FOR WEAVING LOOMS
Henry James Cooper, Stockport, England
Application February 28, 1951, Serial No. 213,247
In Great Britain March 15, 1950
18 Claims. (Cl. 139—224)

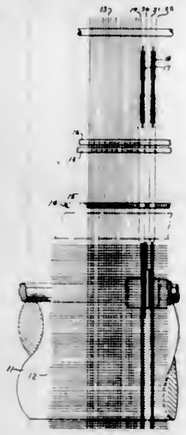


1. A weft replenishing apparatus for circular looms, comprising shuttles travelling along a circular path in unidirection, weft coilers, means for constraining the weft coilers to follow a predetermined closed path at one part of which the weft coilers successively register substantially with the shuttles, means for driving the weft coilers at substantially the same speed as the shuttles whilst the weft coilers are registering substantially with the shuttles, and means for slipping weft coils from the coilers whilst the weft coilers are in register substantially with and being driven at substantially the same speed as the shuttles.

2,609,009
TWISTED SELVAGE CUTTER
Johann Haefliger, Cleveland, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application October 28, 1950, Serial No. 192,756
16 Claims. (Cl. 139—291)

1. In a loom of the type which utilizes spaced binding threads in the cloth being woven, a blade,

means for actuating said blade, and means for guiding said blade comprising oppositely disposed prongs connected to said actuating means



and mounted so as to alternately traverse the cloth and thereby be constrained by the binding threads.

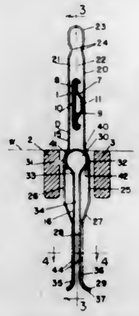
2,609,010
ELECTRIC PROTECTION MEANS FOR LOOMS
William A. Blanchard, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 3, 1950, Serial No. 153,676
14 Claims. (Cl. 139—341)



1. In electric protection means for a loom having a shuttle to travel across a lay, two normally open electric switches located at spaced points along the lay, lock means for each switch operative upon closure of the switch to hold the latter closed, the shuttle in a flight across the lay effecting closure first of one of said switches and then closure of the other switch, loom stopping means, electric circuit means including said switches in series controlling said stopping means and preventing the latter from stopping the loom if the shuttle effects closure of both of said switches by a given time in the loom cycle, and means operative subsequent to said time in the loom cycle to release said lock means to permit said switches to return to normal open position.

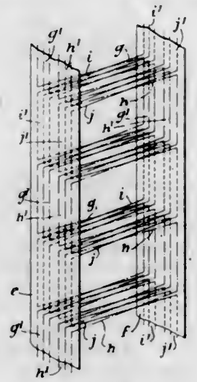
2,609,011
DETECTOR FOR WARP STOP MOTION
William A. Blanchard, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application May 26, 1951, Serial No. 228,393
10 Claims. (Cl. 139—353)

1. A detector for a warp stop motion including an electric contact bar, said detector comprising a piece of wire having side members the upper parts of which form a slot to receive the contact bar, and a second piece of wire secured to and between said side members formed with a rounded eye for a warp thread and having the parts there-



of below the eye forming a thread receiving slot opening into said eye.

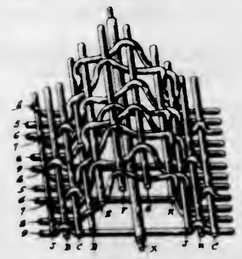
2,609,012
WOVEN LADDER WEBBING
George Frederick French and Roger French, Manchester, England
Application November 1, 1950, Serial No. 193,361
In Great Britain November 1, 1949
2 Claims. (Cl. 139—384)



1. In a ladder web construction including two body webs, cross straps formed by two sets of continuous warp threads bound-in alternately into the said main body webs and crossing between them to form the straps, the binding-in of the warps of one set alternating in each body web with the binding-in of the other set.

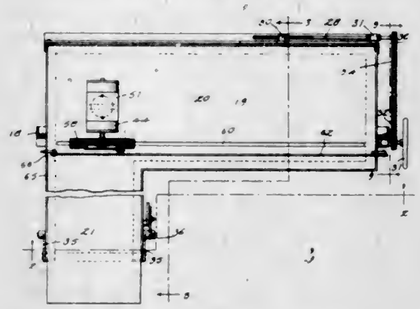
2,609,013
STIFFENED WOVEN FABRIC
Pierre Amyot, Quebec, Quebec, Canada
Application March 8, 1951, Serial No. 214,569
4 Claims. (Cl. 139—384)

1. A stiffened woven fabric made of warp threads, weft threads and stiffening cords extending weft-wise of the fabric between certain of a series of the warps, said warps being interwoven with the wefts to provide a continuous back ply for a series of stiffening cords and individual face plies affording a facing for each stiffening cord on one side of said back ply, each of said facings merging with the back ply at opposite sides of the stiffening cord and locking means for securing each facing at the points of mergence with the back ply comprising a pair of binder threads interwoven with certain of said warps overlying the remaining warps, said binders being secured against the woven face ply to



lock the latter in its fixed position about the stiffening cord.

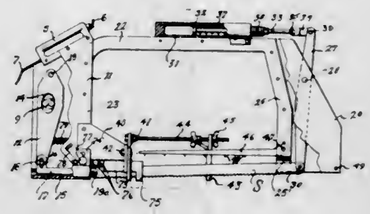
2,609,014
TRAVELING SAW AND SAW TABLE THEREFOR
William C. Schwantes, Manitowoc, Wis.
Application October 11, 1948, Serial No. 53,939
1 Claim. (Cl. 143—47)



A saw and saw table comprising a base frame including a pair of horizontally disposed L-shaped guide rails, a saw table above said rails, a pair of lengthwise spaced apart lower cams slidably engaging on each rail, a connecting bar between each pair of cams, a laterally extending lug comprising a nut fixed to one cam of each pair of cams, offset bearings on said frame aligned with said lugs, a cam adjusting screw shaft extending through each bearing threaded into each nut, a sprocket on each shaft, chain means connected between said sprockets, an operating wheel on one shaft, pairs of upper cams fixed to the lower side of said table and engaging said lower cams, a superstructure carried by said base frame and extending above said table, a horizontal guide rail carried by said superstructure, a motor carriage movably engaging said latter rail and depending therebeneath, a motor fixed in depending relation to said carriage, a circular saw secured to said motor, a work clamping bar above said table, and a pair of links pivotally connected between the ends of said bar and said superstructure for maintaining said clamping bar parallel with said table.

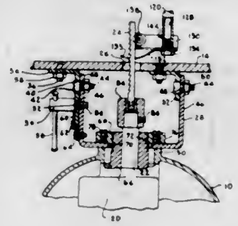
2,609,015
RECIPROCATING POWER-DRIVEN SAW
Frank Gaviola and Frank Anacabe, Elko, Nev.
Application April 22, 1947, Serial No. 743,042
3 Claims. (Cl. 143—68)

1. In a power driven saw, in combination, a U-shaped frame including a pair of side plates, a lever pivotally mounted at one end of said frame, a second lever having a separate pivotal mounting at the other end of said frame, a saw blade connected at one end directly to said first lever, a rod connecting the other end of said saw blade to said second lever, said saw blade extending across the



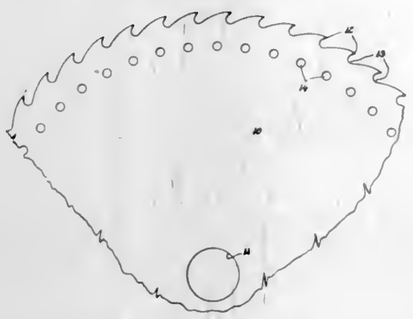
open side of said frame, a rotatable power driven cam means secured between said side plates, said first mentioned lever having an aperture therein coacting with said cam to provide a reciprocatory motion to said one end of said blade, and said second lever imparting a rocking motion to said other end of said blade.

2,609,016
ELECTRIC MOTOR DRIVEN JIG-SAW UNIT
Theodore R. Bush, Royal Oak, Mich.
Application August 3, 1949, Serial No. 108,273
2 Claims. (Cl. 143—70)



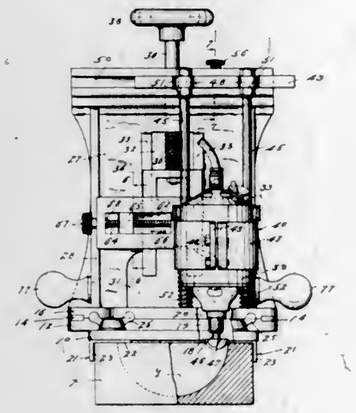
1. In an electric motor driven woodworking machine, a hollow base provided with a horizontal surface having an opening therein, a bracket having a flat portion provided with an opening and seated on said surface, a worktable mounted on said bracket, a drive unit arranged within said hollow base and comprising an electric motor and reciprocating mechanism driven thereby and secured thereto, said drive unit including an externally threaded bushing projecting upwardly through said openings in said base and said bracket, said reciprocating mechanism including a plunger reciprocable in said bushing for reciprocating a woodworking tool through an opening in said table upon operation of said motor, a nut threaded onto said bushing and having a reduced neck portion projecting through the opening in said bracket, said nut providing a means for securing said drive unit to said base, said flat portion of said bracket being arranged between said base and the head of said nut and being rotatable about said reduced portion of said nut, and other threaded means extending through said head of said nut and engageable with said flat portion of said bracket for clamping said bracket against said base so as to prevent rotation of said bracket and table.

2,609,017
CIRCULAR SAW BLADE WITH TENSION STABILIZING HOLES
William R. Chapin, Indianapolis, Ind., assignor to E. C. Atkins and Company, Indianapolis, Ind., a corporation of Indiana
Application March 13, 1950, Serial No. 149,335
2 Claims. (Cl. 143—137)



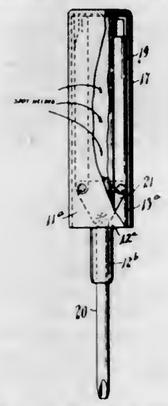
1. A circular saw perforated at its central region for mounting on a spindle, and provided with a peripheral series of teeth, said saw being otherwise unperforated except for a single series of perforations of uniform dimensions arranged in a circular rank concentric with said teeth, the angular spacing between the centers of adjacent perforations of the series being equal to the angular spacing between adjacent teeth, but the perforations being staggered relative to the teeth.

2,609,018
ROUTING MACHINE
Arvid Bjorklund, Minneapolis, Minn.
Application December 27, 1948, Serial No. 67,421
11 Claims. (Cl. 144—136)



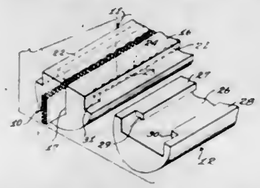
1. In a machine of the class described, a base, a frame on the base, a vertical slide on the frame, screw means for raising or lowering the slide, a shaft journaled in the slide, and having a cross-head, means for turning the shaft, a second slide on the cross-head, means for adjusting said second slide on the cross-head, a motor support pivoted on the second slide, means movable with the second slide for guiding the motor support, an electric motor attached to the motor support, and a tool on the armature shaft of the motor.

2,609,019
MULTIPLE BIT TOOL
Clarence S. Weber, Preston, Ontario, Canada, assignor to Roy Bullas, Kitchener, Ontario, Canada
Application February 3, 1948, Serial No. 6,052
5 Claims. (Cl. 145—62)



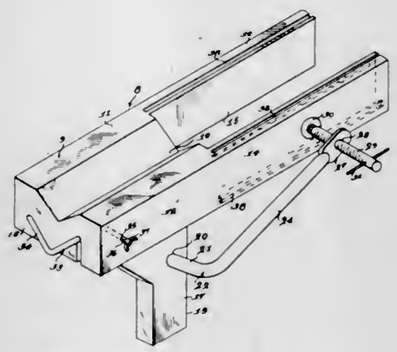
1. A multiple bit tool comprising a substantially flat swivel plate, a plurality of elements one of which has a free end provided with a tool bit, pivots on the swivel plate for each of the elements, each element being coupled at its other end to the swivel plate by a pivot to swing substantially in the plane of the said plate, the pivots being located on the swivel plate at the apices of a hypothetical plane regular polygonal figure so that each of the elements may selectively be swung to a position in which one element extends in one direction while the other elements extend in the same direction but in opposite sense, a magazine which provides a handle and having a chamber open at one end and divided into a plurality of sections, the said sections being disposed side by side and being substantially co-planar, one section selectively receiving one of the elements pivoted end first and free end protruding whereby said element forms a tool element and the free end provides a tool bit, and the other sections receiving the other elements free ends first and enclosing the said other elements substantially in their entirety, the section which receives the pivoted end of an element being provided with constricted openings or slots in opposite sides which provide a passage for the swivel plate.

2,609,020
SAW HANDLE
Stanley C. Becker, New Castle, Ind.
Application February 23, 1951, Serial No. 212,458
4 Claims. (Cl. 145—108)



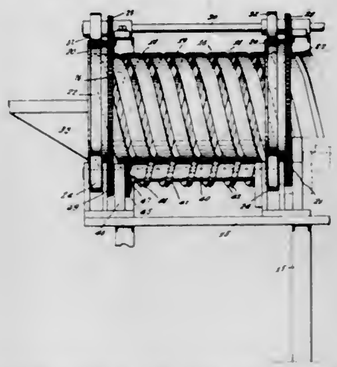
1. A detachable tool handle comprising a first part of substantially semicylindrical shape having a flat surface and a transversely rounded surface and having a tool receiving groove extending medially of the longitudinal edges of the flat surface from one end to a location intermediate the length of said part and opening along one side to said flat surface, said groove being divided into two diverging grooves near the inner end thereof and said first part also having tongue-and-groove formations extending one along each longitudinal edge of said flat surface, and a second part of substantially semicylindrical shape having a flat surface and a transversely rounded surface and having tongue-and-groove formations extending one along each longitudinal edge of the flat surface thereof and completmentary to the tongue-and-groove formations on said first part to slidably receive the tongue-and-groove formations on said first part and secure the two parts together with the flat surfaces thereof juxtaposed, and complementary locking means carried on the flat surfaces of said first and second parts to releasably lock said parts in substantially coterminous relationship to each other.

2,609,021
DRILL GUIDE FOR DOOR LOCK RECESSES
Henry L. Griffith, Eclectic, Ala.
Application January 12, 1951, Serial No. 205,757
6 Claims. (Cl. 145—129)



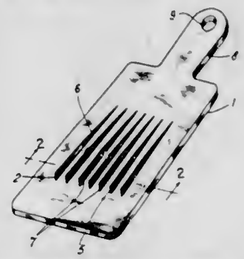
1. A drill guide comprising an elongated block, a pair of spaced parallel furcations extending longitudinally from one end of the block and adapted to straddle and snugly engage opposite sides of a workpiece, a bar secured to one face of and depending from said block and having a straight edge disposed in the same plane as said end of the block, said block end and straight edge being adapted to engage flush against an edge of the workpiece, a yoke-shaped clamp having a straight intermediate portion extending slidably and rotatably through a portion of said bar at right angles to and in a plane parallel to the plane of said furcations and a pair of depending legs, said clamp having a first clamp head at the end of one of said legs, a screw threadedly engaging the end of the other of said legs, a second clamp head supported on said screw, for movement toward and away from the first clamp head when the screw is revolved, and the surface of said block opposite said one face having a guide channel extending from end-to-end thereof in which a drill bit is adapted to rest for drilling a bore or recess in the workpiece, said guide channel being disposed with its axis at a right angle to the first mentioned end of the block and said edge of the bar and centered with respect to the spaced furcations.

2,609,022
APPARATUS FOR PEELING TOMATOES
Mark W. Lowe, Connersville, Ind.
Application October 6, 1944, Serial No. 557,410
9 Claims. (Cl. 146—49)



1. In a machine of the type described, a frame, a hollow drum rotatably mounted in said frame, said drum being provided with a helical slot in its wall, a shaft supported from said frame contiguous to said drum and on an axis parallel to that of said drum, a helical rib on said shaft, said rib having a pitch angle equal and opposite to that of said slot and projecting through said slot into the interior of said drum, scarifying means carried by said rib in position to engage material within the drum, and means for rotating said drum and shaft in opposite directions and in timed relation.

2,609,023
CUTTER FOR ONIONS AND THE LIKE
Walter Sidney Fuld, New York, N. Y.
Application March 27, 1951, Serial No. 217,764
3 Claims. (Cl. 146—171)

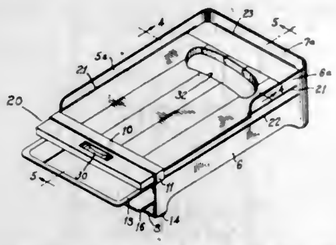


1. A cutter and slicer comprising a flat member having blades secured on one face thereof, the blades extending along said members and being parallel to one another, the width of the blades projecting outward from said face, said blades each having a section of its outer edge inclined to said face and being bent over along the remainder of their outer edges to present triangular portions extending sidewise in the same direction approximately parallel to said face.

2,609,024
FOOD PREPARING DEVICE
John A. Russ, Massillon, Ohio
Application March 7, 1947, Serial No. 732,975
2 Claims. (Cl. 146—215)

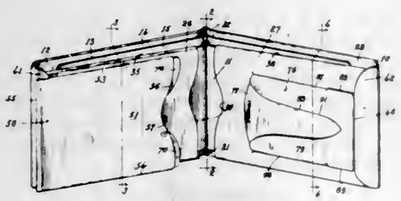
1. A self-contained food preparing unit including a receptacle, a flat chopping board completely

covering said receptacle and having a relatively small opening therethrough at one end, means



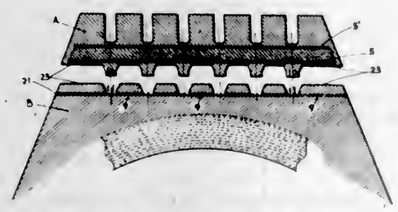
removably supporting said board over said receptacle, and a guard wall around the board and projecting above the same.

2,609,025
BILLFOLD
Arthur A. Tolbert, Yoakum, Tex., assignor to Tex Tan of Yoakum, Yoakum, Tex., a corporation of Texas
Application December 31, 1947, Serial No. 794,839
6 Claims. (Cl. 150—38)



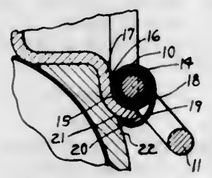
1. In a billfold an end pocket wall, a pocket superposed thereon and comprising a wall of less width than the first said pocket wall, the first said pocket wall having longitudinal slits therein spaced apart a distance substantially the width of the second said wall and a transverse slit spaced from the outer ends of the first said slits, extensions on the sides of the second said wall and tucked through said longitudinal slits and projecting laterally from said second wall, a flap on the outer end of said second wall turned under said second wall and extended through the transverse slit in the first said wall and cemented to the inner face thereof.

2,609,026
REPLACEABLE TREAD TIRE
Rodolfo Luchsinger-Caballero, Madrid, Spain
Application April 3, 1948, Serial No. 18,787
In Spain September 26, 1947
4 Claims. (Cl. 152—176)



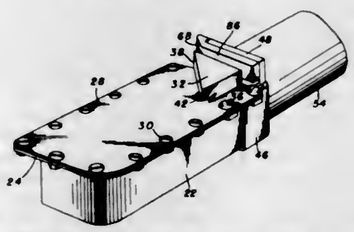
1. A replaceable tread tire comprising a tire cover and a detachable flexible annular tread portion, a coupling profile in the form of a relief design on the crown of said cover extending longitudinally over the whole periphery thereof, a corresponding coupling profile on the inner face of said tread portion in the form of a conforming relief design engaging and interlocking with said first relief design, and outlet means adapted to discharge air entrapped between said two profiles to the outside when the tire cover and tread portion are assembled, said outlet means being closed during service of the tire to prevent the entry of air in between said profiles.

2,609,027
ANTISKID CHAIN AND POSITIONING MEANS
Burton H. Locke, Framingham, Mass.
Application July 6, 1949, Serial No. 103,205
2 Claims. (Cl. 152—213)



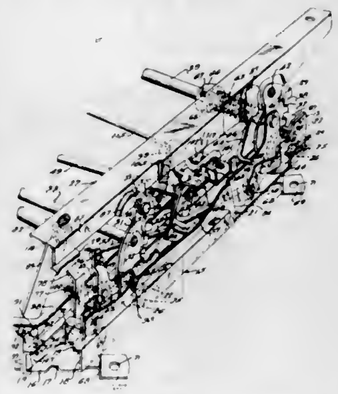
1. An antiskid chain for vehicle wheels that have a pair of rim flanges and a tire mounted therebetween comprising two side chain portions, one to pass around the wheel at each side of the tire, respectively, a plurality of antiskid cross chain portions connecting to each side chain and disposed to pass laterally over the tire, a resilient clip attached to each of the said side chains substantially at adjacent ends thereof, each of said clips being in the form of a coiled torsion spring to seat against the outer side of one of the said rim flanges of the said wheel, the outer end portion of said coiled spring being arcuate outwardly to pass over the periphery of the respective rim flange to dispose the extreme outer end portion of said spring in position to make yieldable contact with the inner side of the same rim flange, means on each of the said side chains to afford interconnection of the ends of each to attach the complete chain onto a vehicle wheel.

2,609,028
AUTOMATIC PITTSBURGH LOCK SEAM SEALER
Martin Troop, Bayonne, N. J., assignor of one-half to Edward Griffin, Bayonne, N. J.
Application September 20, 1948, Serial No. 50,226
6 Claims. (Cl. 153—11)



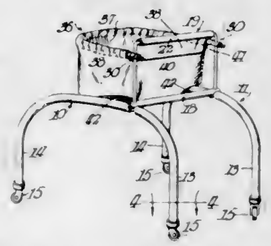
1. A Pittsburgh lock seam sealer comprising a slide, a die fixed to the slide and having an opening therein for receiving and turning the standing edge of a Pittsburgh seam during movement of the slide, and a reciprocating hammer slidably carried by said slide and trailing said die, said hammer being movable with said slide and movable relative to said die to hammer the upstanding edge of a Pittsburgh seam after the same has been turned.

2,609,029
SEAT TRACK OF THE VERTICAL ADJUSTABLE TYPE FOR AUTOMOTIVE VEHICLES
Alfred H. Haberstump, Detroit, Mich., assignor to American Metal Products Company, Detroit, Mich., a corporation of Michigan
Application July 29, 1950, Serial No. 176,583
15 Claims. (Cl. 155—14)



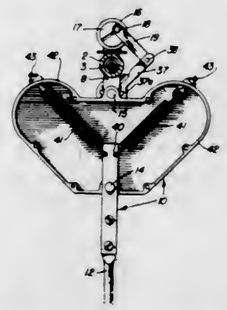
3. A track element for supporting a seat including, in combination, a base support, an intermediate support disposed parallel thereto, means interconnecting said supports to permit relative longitudinal movement therebetween, a seat support disposed substantially parallel to said base and intermediate supports, a link formed as a sector pivoted at spaced points thereon to said seat support and to said intermediate support near one end of each thereof, a second link formed as a sector, a third link pivoted to said second link, said second and third links being pivoted to said intermediate support and seat support respectively, near the other ends thereof at points spaced from their common pivot, each of said sectors being rotatable independently of the other for independently adjusting either end of the seat support vertically, said links having notches arcuately disposed about one pivot thereof, and latch means having pivots fixed in relation to said last pivots and movable into and out of engagement with said notches.

2,609,030
BABY WALKER
Cedric C. Stack, Elwood, Ind.
Application August 3, 1950, Serial No. 177,460
13 Claims. (Cl. 155—24)



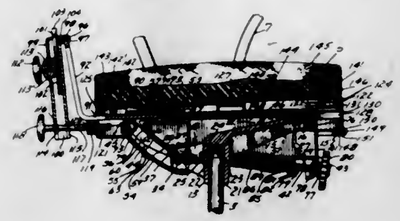
1. A baby walker embodying therein laterally spaced side frame members each including a top portion and front and rear legs extending downwardly from the ends thereof, a reach bar extending transversely of and having direct connections at its ends with top portions of said side frame members, an inverted U-shaped member including a hand hold at the top and depending side legs, the bottom ends of which form parts of said direct connections, a seat support having side arms connected together at the rear, and means for operatively connecting the front ends of said side arms to said depending side legs.

2,609,031
MOTOR-DRIVEN CHILD'S SWING
Harry Z. Puscas, Rock Island, Ill.
Application August 30, 1949, Serial No. 113,166
7 Claims. (Cl. 155—59)



2. In a motor operated swing, a supporting framework having side supports and a crossbar connecting their top parts, a swinging frame pivotally connected to said crossbar, said swinging frame having pivot members adjacent its lower parts, a main oscillating unit pivotally hung from said pivot members, spring connecting said swinging frame and said main oscillating unit, whereby to cushion the change in direction of travel of the swinging frame and the main oscillating unit, and motor means for actuating said swinging frame.

2,609,032
CHAIR WITH AUTOMATICALLY SHIFTABLE SEAT AND ADJUSTABLE BACK
Roy A. Cramer, Kansas City, Mo.
Application December 1, 1950, Serial No. 198,654
8 Claims. (Cl. 155—77)



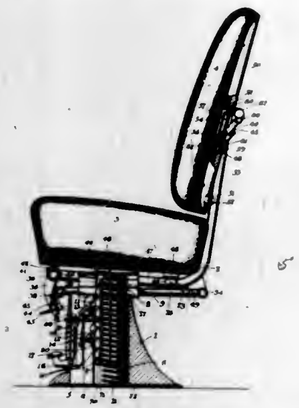
1. A chair comprising, a support, a spider mounted on said support, a tilting mechanism mounted on said spider, a seat mounted on said tilting mechanism, and a back mounted on said tilting mechanism, said tilting mechanism including cam plates having flanges forming tracks, said spider having cam rollers engaging said tracks whereby said seat will move forwardly and the front portion upwardly with respect to the support as the occupant leans backwardly.

2,609,033
UTILITY STOOL
Theodore R. Finke, Euclid, Ohio, assignor to The Radiart Corporation, Cleveland, Ohio, a corporation of Ohio
Application January 21, 1949, Serial No. 71,890
12 Claims. (Cl. 155—94)



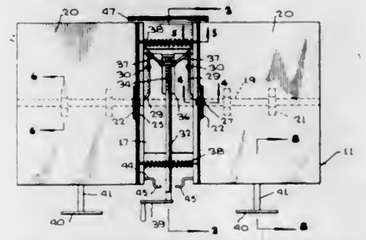
1. In a stool of the character described, a tubular support, a seat-supporting tube telescopically movable in said tubular support, and means for locking said tube in adjusted position, said means comprising a latch member within said tubular support, and spring means effective to normally maintain said latch member in an inclined position in which it engages the inner wall of the tubular support, and means for moving said latch member from said inclined position to a horizontal position, in which it is released from locking engagement with said tubular support.

2,609,034
CHAIR
Chester J. Barecki, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application October 29, 1946, Serial No. 706,427
3 Claims. (Cl. 155—162)



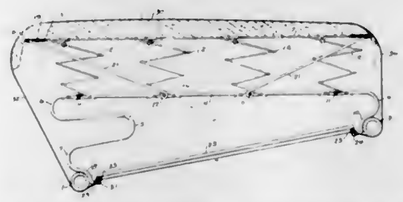
3. In a chair having a supporting frame, a seat mounted on the frame and a back having its lower end connected to the frame swingably about a horizontal axis: means for maintaining the back in selected angularly tilted positions comprising a screw journalled on the back for turning movement about a fixed upright axis above the swinging connection of the back to the frame; a block mounted for up and down movement on the screw; and a link having at one end thereof a fixed pivotal connection with the frame and having its other end pivotally connected to said block, whereby turning movement of the screw effects up and down movement of the block and angular turning movement of the link relative to the frame so that said link maintains the back in selected angularly tilted positions; and an adjustment wheel on the screw whereby the screw may be manually turned.

2,609,035
INVALID'S FOOTREST
Alexander H. Jones, Jackson, Miss.
Application March 16, 1951, Serial No. 215,878
3 Claims. (Cl. 155—169)



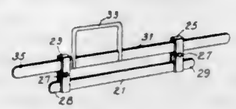
1. An invalid's footrest comprising a base, an upstanding post member secured to said base, a horizontal shaft secured to the top portion of said post member, a horizontal plate member secured to said post member above said shaft, a pair of pad members slidably mounted on said shaft on opposite sides of said plate member and overlying said plate member, spring means connecting the pad members, a crankshaft journaled on said plate member and extending transversely of said first-named shaft, respective levers pivoted to the side portions of said plate member and each having one end portion thereof engageable with the inner side marginal portion of a respective pad member, a nut member threaded on the crankshaft, and respective links connecting the nut member to the other end portions of the respective levers, whereby rotation of said crankshaft moves the nut member therealong and causes the levers to rotate, thereby moving the pad members to vary the spacing therebetween.

2,609,036
AUTOMOBILE SEAT SPRING
Maurice Stubnitz, Adrian, Mich., assignor to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan
Application June 2, 1950, Serial No. 165,734
4 Claims. (Cl. 155—180)



1. A spring seat cushion comprising a spring assembly having in combination a wire base frame comprising a wire rim extending around the four sides, flexible wire beams or stringers extending from the front to the back of the seat cushion and having loops at the front and the rear and shallow return bends which are arranged to fit within and removably rest on a tubular supporting frame which is secured to the automobile body, the ends of the flexible wire beams being secured to the wire base rim, cross stringers laid over the flexible forwardly and rearwardly extending stringers, coiled load-supporting springs fastened at the intersections to the stringers, a top rim fastened to the tops of the coiled load-supporting springs and flexible ties connecting together the tops of the coiled load-supporting springs, bridging wires secured to the side portions of the base rim and having bent up seat supporting portions extending beyond the rim wire at the sides of the bottom frame and fitting over the tubular side portions of the tubular frame, the said spring seat fitting within the tubular supporting frame with the return bend seating portions of the forwardly and rearwardly extending flexible stringers engaging over the front and rear tube portions of the supporting frame and the bent up portions of the bridging wires engaging the side tube portions of the tubular frame, and the seat spring assembly secured in place by a trimming material stretched thereover and over and under the tubular frame members and then clipped to the wire bottom rim member.

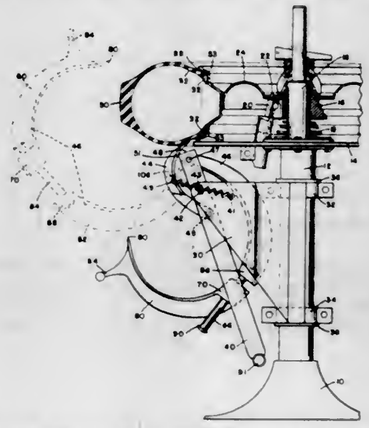
2,609,037
SAFETY ATTACHMENT FOR THE INFLATION OF TIRES
Ralph E. Titus, Cincinnati, Ohio
Application May 19, 1949, Serial No. 94,119
5 Claims. (Cl. 157—1)



1. In a tool for promoting safety to persons while inflating pneumatic tires mounted on wheel rims, which rims have edge portions of reduced internal diameter and associated lock rings adjacent such edge portions, the combination of structure comprising a bar of length greater than such reduced diameter portions of intended rims, guard structure comprising a bar at least as long as the diameter of intended lock rings, and means interconnecting said bars for keeping them in substantially parallel planes while permitting relative longitudinal movement therebetween.

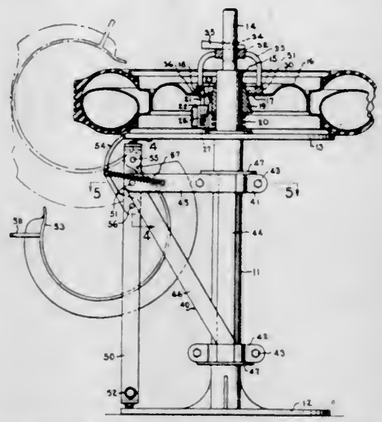
2,609,038
AXIALLY COMPRESSING TYPE TIRE REMOVING APPARATUS
Robert D. Henderson, Cincinnati, Ohio
Application May 10, 1948, Serial No. 26,222
4 Claims. (Cl. 157—1.24)

1. A device for breaking the bead of a pneumatic tire from the rim flange of a wheel, comprising a support for holding a wheel while a tire carried thereby is being worked upon, an actuating lever, means pivotally mounting the actuating lever upon said support at an axis residing adjacent one side of a wheel mounted upon said support, a pair of jaws pivotally mounted on said lever for working upon beads at opposite sides of the tire, the axes at which the jaws are mounted being located respectively at opposite sides of the axis at which the lever is pivotally mounted on said support means, the said jaws being dissimilar in size but both having generally concave sides facing the support when the jaws are respectively in engagement with a tire, the locus of movement of the pivotal axis of the smaller of said jaws, in response to actuation of said lever, being generally more remote from the tire than the locus of movement of the pivotal axis of the larger of said jaws, the smaller of said jaws being dimensioned to act upon the tire bead which is at the side of the tire nearest the



axis upon which said lever is mounted, the larger of the jaws comprising two segments arranged in tandem to encircle a tire for acting upon portions thereof which are remote from the pivotal axis at which said lever is mounted, and means for adjustably spacing the two segments of said larger jaw to provide for its encirclement of tires of differing sizes.

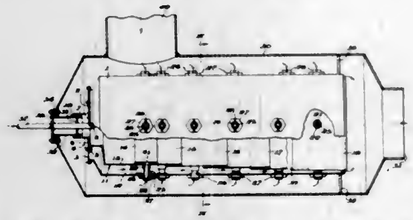
2,609,039
AXIALLY COMPRESSING TYPE TIRE DISMOUNTING APPARATUS
Robert D. Henderson, Cincinnati, Ohio
Application December 10, 1946, Serial No. 715,284
8 Claims. (Cl. 157—1.24)



1. A device for prying loose the bead of a pneumatic tire from a complementary portion of a rim of a wheel on which the tire is mounted, said device comprising, a member providing a guiding edge, means for holding a wheel against axial and lateral displacement in such position that the juncture of the bead of a tire and the rim of a wheel held by said holding means resides adjacent the said guiding edge at one side thereof, a shoe located adjacent the guiding edge at the side thereof opposite the said rim and bead junc-

ture, the said shoe having a forward prying portion which is insertable into the juncture of the rim and bead, a lever in pivotal connection with a portion of said shoe remote from its forward prying portion, and means for mounting said lever on a pivotal axis which is fixed in respect to said guiding edge and which is located between the said guiding edge and the axis at which the said shoe is pivotally connected to said lever, the said shoe having an inwardly inclined surface facing the axis of a wheel held by said holding means when said lever is in inoperative position, which inclined surface is progressively engageable with said guiding edge upon actuation of said lever, until the prying portion of the shoe engages the wheel rim.

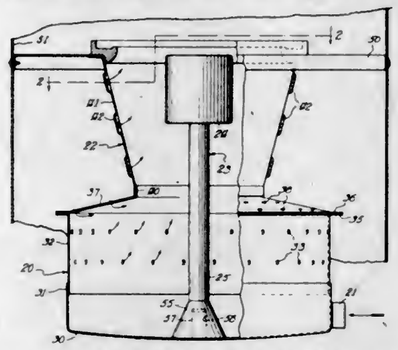
2,609,040
COMBUSTION APPARATUS USING COMPRESSED AIR
David Aronson, Greensburg, Pa., assignor to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania
Application March 14, 1950, Serial No. 149,588
9 Claims. (Cl. 158—4)



1. Combustion apparatus comprising inner and outer combustion chamber walls of approximately the same length having a space between them, said space extending substantially the length of the combustion chamber, the inner wall being provided with a plurality of circumferentially spaced openings, tubular members connected to said inner wall at said openings and extending out across the space between the two walls to the outside of said outer wall, a burner disposed at one end of the inner wall, and means for directing air under pressure to the outer ends of said tubular members and to the space between the burner end of the inner wall and the surrounding outer wall.

2,609,041
POT TYPE OIL BURNER
Richard Charles Laramy, Muskegon Heights, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 19, 1948, Serial No. 60,865
2 Claims. (Cl. 158—91)

1. An oil pot type burner comprising, vertically extending wall means forming a lower combustion chamber defining a pan-shaped pot of substantially circular shape and having means to receive either a distillate or a catalytic fuel oil, said wall means adjacent the upper regions thereof having a plurality of apertures disposed in series relationship in at least two separate spaced planes running in a substantially horizontal direction and adapted to permit air to enter into said lower combustion chamber, a cover for said lower combustion chamber having a central through opening and provided with at least two rows of apertures disposed radially outwardly of the central opening and adapted to permit air to enter said lower combustion chamber, wall means carried by said cover and arranged to define an upwardly and outwardly flared shaped upper combustion chamber the lower end of which being open and embracing the marginal edges of said central through opening and arranged in open communication with said lower combustion chamber, the air flowing through the apertures in the wall means and in said cover providing a primary source of air to facilitate an initial combustion of the fuel oil in the lower combustion chamber whereupon the heavy combustible gases are directed into the upper combustion chamber into the path of a secondary source of air to complete the combustion, said upper combustion chamber being provided with a plurality of louvers arranged in at least three separate spaced planes running in a substantially horizontal direction and permitting air to pass



therethrough to define a secondary source of air and arranged to direct said air coming into the upper chamber in a particular path to impart a circular and whirling action to the flame, and a post-like member supported in the lower combustion chamber and extending through but spaced from the marginal edges of said central through opening and into both of said combustion chambers and having a tubular shaped enlarged portion disposed in the upper combustion chamber, said tubular shaped enlarged portion being arranged to take up a predetermined amount of space in the central regions of the upper combustion chamber for cooperation with the primary source of air and the secondary source of air to direct the heavy high combustible gas normally rising upwardly in the central regions of the burner into the path of the secondary air entering into the upper combustion chamber.

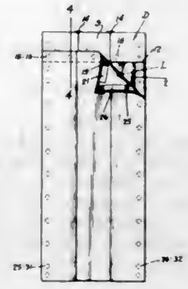
2,609,042
AUTOMOBILE CANOPY
Jerry C. Chamberlain, Phoenix, Ariz.
Application August 31, 1951, Serial No. 244,519
3 Claims. (Cl. 160—122)



1. An automobile canopy comprising a base plate having a central aperture and angularly spaced apart legs, suction cups of resilient material secured one on each leg at the outer end thereof for detachably securing said base plate to an automobile roof, a bracket including a center portion superimposed on said base plate and provided with a central aperture and arms

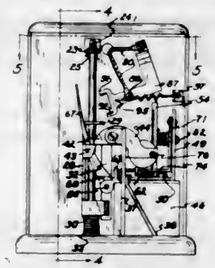
projecting radially from said base plate in longitudinal alignment with each other and having perpendicularly disposed portions at their outer ends, means pivotally connecting said bracket to said base plate for turning movements of the former relative to the latter, rollers disposed in side by side relationship between the outer end portions of said arms and journaled at their ends on said outer end portions, and bodies of flexible sheet material secured one to each roller each at one end thereof for winding onto and off of the corresponding rollers.

2,609,043
SECTIONAL WINDOW DRAPERY AND LINER
Alfred James Dubinsky, La Crosse, Wis.
Application December 4, 1950, Serial No. 199,000
6 Claims. (Cl. 160—124)



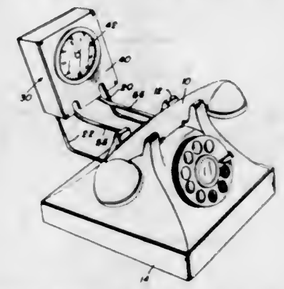
3. A window drapery composed of a plurality of like sections, each section comprising a piece of fabric having its top edge portion folded upon itself to provide a relatively wide hem, and the vertical side edges of each drape section being doubled back to provide relatively narrower hollow hems, fixed pinch pleats in the upper portion of each drape section, complemental fastening elements completely enclosed within and the side hems of said drape sections for securing together the edges of adjacent sections to provide a composite drapery, comprising a plurality of like drape sections, the fastening elements concealed in the contiguous hems of adjacent drape sections being capable of interlocking engagement with one another with a wall of each hem interposed therebetween.

2,609,044
TOASTER
Edward C. Stanton, Robbinsdale, Minn.
Application June 17, 1949, Serial No. 99,801
7 Claims. (Cl. 161—1)



1. The combination with a member to be manually actuated from an inoperative to an operative position, a latching element for retaining said member in said operative position and a first resilient means for returning said member to said inoperative position upon its release by said latching element, of an electric motor, mechanism for releasing said latching element from said member including a pinion driven by said motor, a gear rotated by said pinion from a normal to an abnormal position, a cam fixed to rotate with said gear and a pivotally supported element engaged against said cam and operable upon said latching element, a circuit for said motor, a switch controlling said circuit, means operative in response to manual actuation of said member to close said switch and engage said gear with said pinion, means operative in response to actuation of said first resilient means to open said switch and release said gear from said pinion and a second resilient means operable to rotate said gear from said abnormal to said normal position upon its release from said pinion.

2,609,045
TIMER ATTACHMENT FOR TELEPHONES
Henry R. Kaiser, Pittsburgh, Pa.
Application April 16, 1951, Serial No. 221,297
5 Claims. (Cl. 161—19)

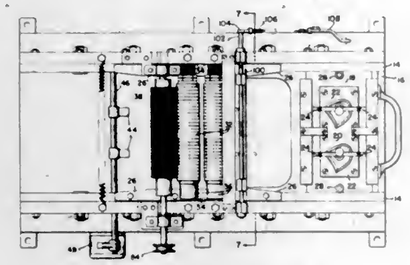


1. In a telephone base and hand-set removably disposed in the cradle of the base, a timer attachment comprising a support having means for attachment to the base, a clock carried by said support, an arm adapted to have one end located in the cradle, a first shaft, means mounting said shaft for rotation on said support, the opposite end of said arm being fixed to said shaft, a second shaft rotatably disposed on said support, a brake arm for the clock freely rotatably disposed on said first shaft, a lost motion drive connection operatively connected with said brake arm and secured to said first shaft, said drive connection being arranged to move said brake arm to such position as to stop said clock, means drivingly connecting said clock with said second shaft, means for drivingly connecting said second shaft to said first shaft, the last-mentioned means including a gear provided with a slot, a driver element fixed to said first shaft and engaged with said slot, a spring secured to said driver element and said gear, said spring being arranged to rotate said second shaft upon removal of the hand-set from the cradle so that said brake arm is moved to a position of disengagement with regard to the clock.

2,609,046
TRIMMING MACHINE
Arthur Greenbaum, Revere, Mass., assignor to American Biltrite Rubber Co. Inc., Stoughton, Mass., a corporation of Massachusetts
Application April 17, 1946, Serial No. 662,896
6 Claims. (Cl. 164—20)

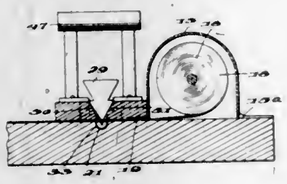
1. A trimming machine for removing a projecting fin from a molded rubber article comprising

a separable die having a peripheral cutting edge, means for closing the die, means for applying pressure to sever the fin against the cutting edge, means for feeding the die to the pressure applying



means, a safety device including a pivoted member disposed immediately above the normal position of the article in advance of the feeding means, and connections operated by the safety device to stop the feeding means.

2,609,047
PAPER CUTTER
William L. Wilkoff, Youngstown, Ohio
Application February 8, 1949, Serial No. 75,259
8 Claims. (Cl. 164—34)



1. A paper cutter of the wire blade type comprising a base member adapted to support a strip of paper thereon in position to be cut, a groove in said base member, a wire positioned in said groove and maintained under tension therein by spring means, a guide for said wire adapted to rest on a strip of paper on said base to hold it in position during the cutting operation and having an elongated opening of relatively narrow width therein positioned above said wire, and runner means for pulling said wire upwardly through a strip of paper positioned on said base and through said elongated opening to sever the paper along a predetermined line.

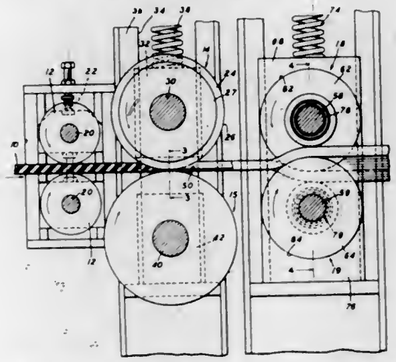
2,609,048
SHAPING DEVICE
Walter A. Samans, Philadelphia, Pa., and William B. Weaver, Blooming Rose, W. Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 5, 1950, Serial No. 154,086
7 Claims. (Cl. 164—48)

1. In the cutting of arcuately shaped sections from a block of material, an apparatus comprising a table supporting said blocks positioned to feed said blocks through the apparatus by force of gravity, a multiplicity of uniformly spaced and arcuately shaped cutting means positioned in the line of flow of said blocks, and means rapidly vibrating said cutting means in a direction



toward and away from the blocks of material to be cut.

2,609,049
METHOD OF AND APPARATUS FOR SLITTING ARTICLES
Vincent A. Rayburn, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 8, 1947, Serial No. 784,869
6 Claims. (Cl. 164—84.5)

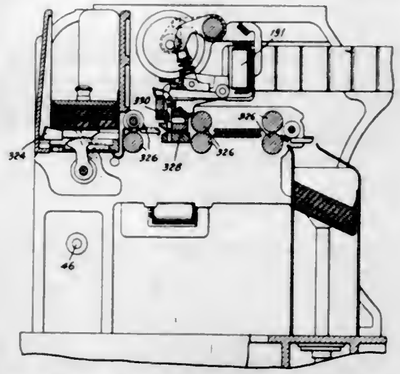


1. The method of slitting strips of tough, resilient plastic material, which comprises advancing such a strip longitudinally along a predetermined path, grooving the strip longitudinally along a plurality of parallel lines at a predetermined point in said path to form a plurality of partially severed ribbons, turning all of said ribbons in the same direction about their longitudinal axes at another point in said path to exert lateral tension on the grooved portions of the strip, longitudinally tensioning the portion of said strip between said points, and severing the portions of the strip connecting said ribbons while they are thus laterally and longitudinally tensioned to completely separate the ribbons.

2,609,050
MAGNETIC TAPE CONTROLLED PUNCH
Robert I. Roth, Mount Pleasant, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 6, 1947, Serial No. 790,059
5 Claims. (Cl. 164—115)

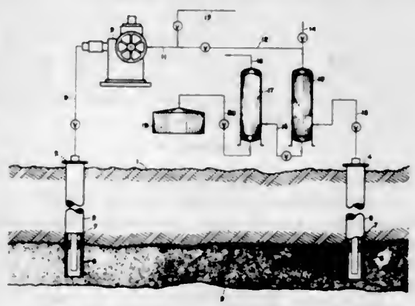
1. A device for sensing while in motion a multiposition magnetic web having sets of transversely

aligned combinational magnetic spots disposed thereon and each transverse set representative of an item of significant characters, comprising means to advance said web past a moving-web sensing station, a plurality of stationary sensing means fixed transversely of the path of said web at the sensing station and responsive to magnetic spots on said web while said web is in motion through said sensing station for simultaneously



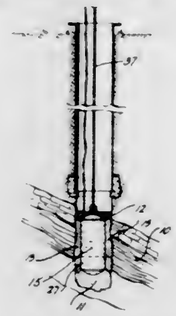
sensing a respective set of sets of successively presented transverse magnetic spots, means responsive to the sensing means for converting the simultaneously sensed combinational data into data representative of a single position code, means responsive to certain magnetic control spots on a web being sensed for rendering inactive said web advancing means, and means thereafter operative to read said data from storage.

2,609,051
METHOD FOR RECOVERY OF OIL FROM WELLS
Eugene R. Brownscombe, Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 27, 1950, Serial No. 158,386
5 Claims. (Cl. 166—21)



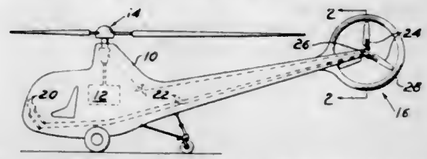
1. A method for recovering oil from a subterranean oil reservoir containing oil in quantities such that gas injected thereinto will not substantially bypass the oil, and in communication with which are an injection well and a production well spaced from the injection well, comprising the steps of injecting into the reservoir through the injection well normally gaseous hydrocarbons at a pressure between about 3,000 p. s. i. and 6,000 p. s. i. and in an amount substantially less than one hydrocarbon pore volume, thereafter injecting inert fluid into the reservoir through the injection well at a pressure between about 3,000 p. s. i. and 6,000 p. s. i. to cause the normally gaseous hydrocarbons to pass through the reservoir in contact with the oil contained therein, simultaneously with the injecting steps maintaining the reservoir pressure at the production well substantially of the same order of magnitude but sufficiently below the injecting pressure so as to permit oil to flow from the reservoir, and removing to the earth's surface through the production well oil swept from the reservoir substantially free from any separate gas phase.

2,609,052
TREATMENT OF WELL BORES
Basil P. Kantzer, Pasadena, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application March 12, 1948, Serial No. 14,630
7 Claims. (Cl. 166—22)



1. A method for sealing permeable underground strata which comprises positioning a thermo-setting resin-forming liquid around a heater positioned opposite the strata to be sealed, applying heat selectively to the annular portion of said liquid between said heater and said strata to cause solidification to form an infusible and insoluble solid without substantial heating of those portions of said liquid above and below said heater, stopping the application of heat, and removing the heater and the remaining portion of unsolidified liquid.

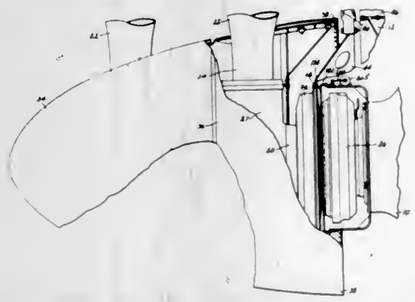
2,609,053
SHROUDED TAIL ROTOR
John G. Lee, Farmington, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application October 31, 1946, Serial No. 706,872
1 Claim. (Cl. 170—135.22)



In a helicopter having an elongated body, a main sustaining rotor located in the forward portion of said body which exerts a torque tending to rotate said body about the main rotor drive shaft, an anti-torque rotor located in the aft portion of said body and rotatable about an axis transverse to said body for accelerating air to produce a lateral thrust acting on said body to oppose the torque of said main rotor, and means

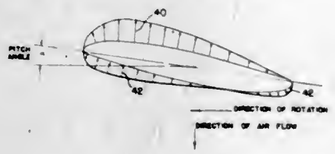
for increasing the thrust of said anti-torque rotor comprising an annular shroud surrounding the blade tips of the rotor, the shroud including inner and outer telescoping members, said outer member having an outwardly flared annular lip portion on the side of the advancing air which merges into an axial portion of uniform diameter terminating on the side of the retreating air, and said inner telescoping member having an axial sleeve portion of uniform outside diameter closely receivable within and slidable axially along the axial portion of said outer member into an extended position in which it projects beyond said outer member on the side of the latter opposite said lip portion.

2,609,054
TWO-SPEED ENGINE COOLING FAN
Howard M. Geyer and Howard Carson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 23, 1946, Serial No. 656,719
17 Claims. (Cl. 170—135.743)



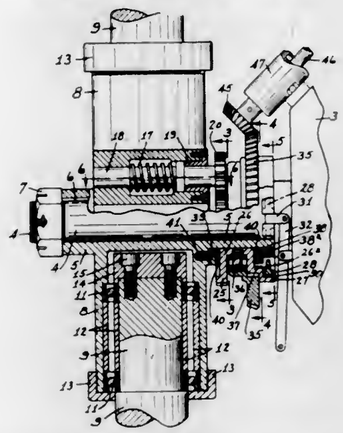
3. In an aircraft, the combination comprising, a controllable pitch propeller, including an hydraulic regulator rotating therewith for controlling the pitch setting of said propeller, an engine for driving the propeller, a multi-speed fan unit driven by the propeller for cooling the engine, said fan unit being rotatable with the propeller and providing fluid passages therethrough for transmission of regulator fluid from the regulator, fluid operated means within the fan unit independent of the regulator fluid from the regulator for selecting the speed at which the fan unit will operate, and manually actuated means for controlling the fluid operated means of the fan unit.

2,609,055
REVERSIBLE PROPELLER BLADE
Homer K. Monroe, Piqua, Ohio, assignor to Hartzell Propeller Fan Company, Piqua, Ohio, a corporation of Ohio
Application November 8, 1949, Serial No. 126,162
3 Claims. (Cl. 170—159)



1. A reversible propeller comprising a hub, at least one blade extending outwardly therefrom, said blade having leading and trailing edges and being twisted about a central radial axis so as to decrease in blade angle toward the tip end, said blade being made up of integral sections which are symmetrical about said central axis, each of said sections comprising outer surfaces which are convexly curved throughout their length, said blade sections being asymmetrical with respect to the chord which divides said blade into said sections, and the edges of the blade formed of said sections being rounded to provide a smooth continuous surface.

2,609,056
CONTROLLABLE PITCH PROPELLER
Allan H. Lockheed, Los Angeles, Calif.
Substituted for abandoned application Serial No. 399,273, June 23, 1941. This application January 4, 1945, Serial No. 571,229
4 Claims. (Cl. 170—160.29)

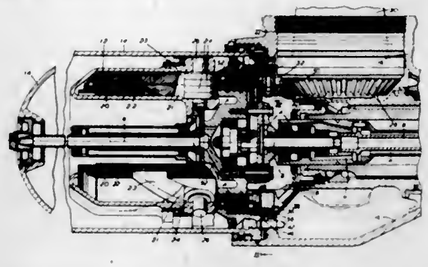


1. A controllable pitch propeller comprising a hub mounted on a shaft, propeller blades mounted for rotation on axes radial to the axis of said hub, means for rotating said blades on their respective axes including pinions spaced from and rotating on axes substantially parallel to the axis of said hub, a gear rotatably surrounding said hub and meshing with said pinions, a brake to retard rotation of said gear during rotation of the hub, a second gear rotatably surrounding the axis of said hub, a one-way clutch acting to clutch said second gear to said first gear, and means for rotating said second gear faster than the rotation of the shaft.

2,609,057
VARIABLE-PITCH AIRSCREW
James Arthur Crowhurst, Hatfield, England, assignor to The De Havilland Aircraft Company Limited, Hatfield, England
Application February 1, 1946, Serial No. 644,746
In Great Britain February 1, 1945
9 Claims. (Cl. 170—160.32)

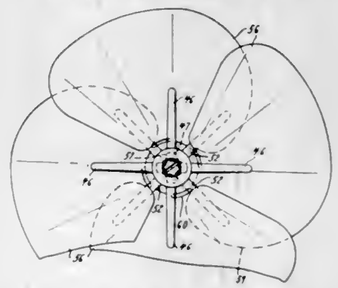
1. In a variable pitch airscrew, pitch-changing mechanism carried by the airscrew hub and operatively connected to the airscrew blades, such pitch-changing mechanism including a member movable with the blades during pitch changes, and first stop means carried by and movable with said member, second stop means carried by and fixed relative to the airscrew hub and located in position to engage with the first stop means and thereby to define, by their interengagement, opposite limits of normal pitch change of the airscrew blades, one of said stop means being retractable relative to the other to enable

exceeding at least one of said limits of pitch change, said first and second stop means having contacting surfaces so inclined in relation to the direction of the force which urges them into engagement, that, by mutual cam action, they tend to effect retraction of such retractable stop means retractively to such force, means nor-



mally holding said retractable stop means to resist such cammed retraction thereof, and stop-release means operable to withdraw said holding means to enable retraction of the retractable stop means automatically in reaction to such force, thereby to enable exceeding at least the one such limit of pitch change.

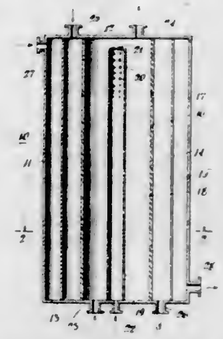
2,609,058
PROPELLER FAN CONSTRUCTION
Charles I. Place, Norfolk, Conn.
Application March 26, 1949, Serial No. 83,702
6 Claims. (Cl. 170—173)



1. In a propeller fan, shaft-mounting hub means, a plurality of fan blades each having leading and trailing margins, and blade-shaping elements for each blade, carried by and extending from said hub means, one of said elements engaging the blade on its trailing face adjacent the trailing margin thereof, another element engaging the blade on its trailing face adjacent the leading margin thereof, and a third element engaging the blade on its leading face intermediate the leading and trailing margins of the blade.

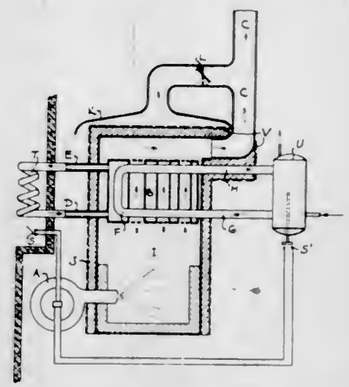
2,609,059
MASS DIFFUSION PROCESS AND APPARATUS
Manson Benedict, Westfield, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application June 29, 1948, Serial No. 35,823
13 Claims. (Cl. 183—2)

3. A gas separating apparatus comprising an inner compartment, an outer compartment surrounding the inner compartment, a diffusion screen as separating wall between said two compartments, a gaseous inlet port communicating with one of said two compartments, a gaseous outlet port communicating with each of said two compartments, cooling surface in said outer compartment, and means for introducing a condensible vapor as a multiplicity of streams into said inner compartment into contact with substantially the entire area of said diffusion screen.



6. In the mass diffusion process for the separation of a gaseous mixture containing heavier and lighter components into two fractions, respectively, enriched relative to said heavier and lighter components, the improvement which comprises passing a condensible vapor at a substantially uniform rate from one side of the diffusion screen through substantially the entire area of said screen to the opposite side of said screen to promote the flow of said heavier component through said screen concurrently with said vapor passing therethrough while permitting said lighter component to diffuse through said screen countercurrently to said vapor passing therethrough.

2,609,060
ADSORBENT-COVERED FURNACE
Kenneth K. Kearby, Cranford, N. J.
Application June 4, 1947, Serial No. 752,476
23 Claims. (Cl. 183—4.5)



1. In a method of removing undesirable adsorbable constituents from air in a building in which heat for purposes unrelated to said method is generated by a heating device located within said building in cycles alternating between heat-generating and cooling-off periods responsive to heat requirements in said building, the improvement which comprises contacting building air containing said constituents with a heat-regeneratable adsorbent for said constituents, heating said adsorbent with heat generated by said device directly responsive to and during

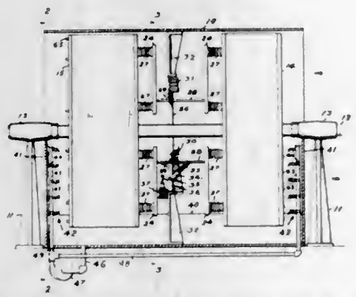
said heat-generating periods, permitting said adsorbent to cool as the effect of and during said cooling-off periods, said heat-generating and cooling-off periods being essentially responsive to said unrelated purposes, whereby at least a portion of said constituents is adsorbed by said adsorbent during said cooling-off periods and adsorbed constituents are expelled from said adsorbent during said heat-generating periods, and removing said expelled constituents from said building.

2,609,061

ROTARY ELECTRICAL PRECIPITATOR

Alfred Z. Hahn, Bound Brook, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application November 28, 1947, Serial No. 788,408
1 Claim. (Cl. 183—7)



An electrical precipitator comprising an assembly providing a cylindrical gas treating zone, radially extending partitions dividing said assembly into a plurality of treating sections, a plurality of complementary extended surface and high tension electrodes in each of said treating sections, said extended surface electrodes in each section comprising a plurality of sheet members positioned in parallel spaced relation, said members being rectilinear in the direction of the axis of the cylindrical assembly and warped in the direction at right angles thereto to define a plurality of parallel conduits extending in the direction of the said axis, said sheet members providing means guiding the flow of liquid in the direction in which the sheet members are warped from each of said conduits to an adjacent conduit, means for energizing said electrodes, means directing a stream of gas to be treated longitudinally through said treating zone, means mounting said assembly for rotation about its axis, means for rotating said assembly, relatively fixed baffle means adjacent to an end of said cylindrical assembly for inhibiting gas flow through a treating section in alignment therewith, and means operable to introduce washing liquid into a section in alignment with said baffle means.

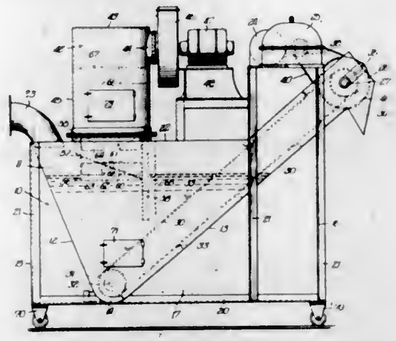
2,609,062

AIR AND GAS CLEANER

Konrad F. Schreier, Lake Forest, and Ben Bartolucci, Chicago, Ill.

Application December 24, 1947, Serial No. 793,638
2 Claims. (Cl. 183—22)

1. A cleaning device for air and the like, in combination, a container for a cleaning liquid, an eliminator section above the liquid and supported by the container, said container having an inlet for air located above the liquid level and said eliminator section having an outlet for washed air also located above the liquid level, an annular partition wall depending from the eliminator section into the cleaning liquid, whereby dust-laden air in order to enter the eliminator section must pass under the partition, a second wall encircling the partition wall and comprising a continuation of the wall of the eliminator section, a sloping bottom for said second wall which thereby forms a trough with



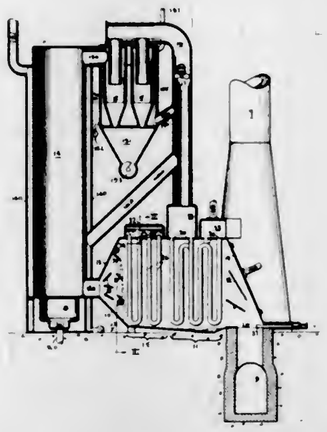
the partition wall whereby liquid previously entrained in the washed air and deposited on the walls of the eliminator section will flow down said walls and be collected by the trough, and an outlet for the trough located at the lowest point thereof, said outlet depending into the cleaning liquid and terminating a distance below the bottom of said annular partition wall.

2,609,063

APPARATUS AND METHOD FOR CLEANING OPEN HEARTH STACK GASES

Charles B. Francis, Pittsburgh, Pa., assignor to Loftus Engineering Corporation, a corporation of Maryland

Application June 2, 1950, Serial No. 165,709
17 Claims. (Cl. 183—32)



1. The method of cleaning dust, aerosols and fumes from the flowing hot gases delivered by a metallurgical furnace which comprises cooling the gases, evaporating a liquid and entraining the vapor thereof in the cooled gases, converting a substantial part of the entrained vapor into fog and a substantial portion of the said fumes into solid particles; agglomerating the dust, aerosol, fume and fog particles without appreciable precipitation in the flowing gases, and then mechanically separating the agglomerated particles from the gases.

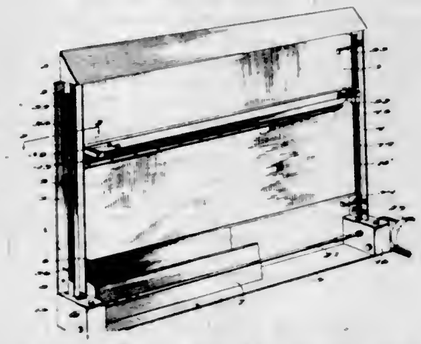
5. Apparatus for cleaning hot dust-laden gases, said apparatus comprising in combination a heat-exchanger having passages with heat-conducting walls for the flow of a cooling medium and arranged for the flow of the hot gases externally over the walls of said passages, a humidifier on the down-stream side of said heat-exchanger for entraining the vapor of a liquid in a stream of said gases flowing through said heat-exchanger, an agglomerator for accumulating the dust particles in the gases flowing from said humidifier into floccules of enlarged size, a separator for removing the enlarged particles from the gases flowing from said agglomerator, and a duct for leading the clean gases from said separator to the heat-exchanger to provide said cooling medium for the heat-exchanger and to effect the heating of said clean gases.

2,609,064

APPARATUS FOR CLEANING FILTER SCREENS

James F. King, Jr., Winston-Salem, N. C., assignor to The Bahnson Company, Winston-Salem, N. C., a corporation of North Carolina

Application January 15, 1951, Serial No. 206,006
8 Claims. (Cl. 183—60)



1. Apparatus for cleaning a screen type filter comprising a wiper substantially in surface contact with a face of said filter screen, means moving said wiper to advance the same along a given axis across the face of said screen, and means compounding said advance movement of said wiper in a given direction along said axis with a simultaneous reciprocatory motion along said axis.

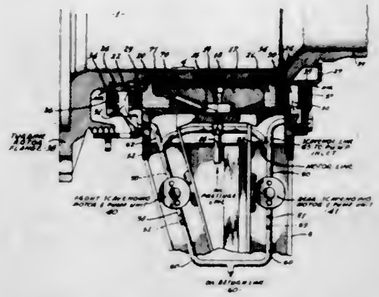
2,609,065

MEANS FOR SCAVENGING ENGINE BEARINGS

William A. Douglas, Pasadena, Calif., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y., a corporation of New York

Application August 22, 1950, Serial No. 180,726
6 Claims. (Cl. 184—6)

1. In combination with a gas turbine, a shaft and a shaft bearing lubricated by oil under pressure from a relatively remote oil pump driven from said shaft, an oil pressure line conducting oil under pressure from said remote pump to said bearing, an oil retainer at one end of said bearing, means forming a chamber positioned outside of said oil retainer and receiving oil from said bearing leaking past said oil retainer, a scavenging pump adjacent said chamber and connected to receive oil from said chamber, a hydraulic motor directly connected to operate said scavenging pump, said hydraulic motor being connected to said oil pressure line adjacent said



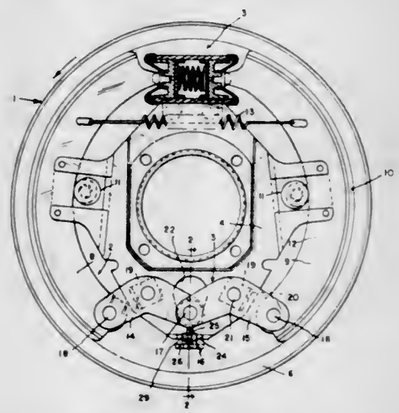
bearing for operation by oil under pressure in said line, and an oil return line connected to receive oil discharged from said scavenging pump and from said motor and connected to return said discharged oil to said remote oil pump.

2,609,066

BRAKE

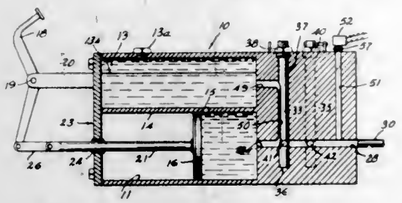
Elmer R. Ross, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application April 14, 1947, Serial No. 741,375
5 Claims. (Cl. 188—78)



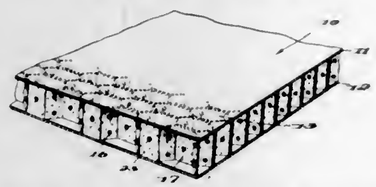
3. A brake comprising a brake drum, a pair of internal brake shoes engageable with said drum, a plate, an actuator between adjacent ends of said brake shoes and means at the opposite ends of said shoes for anchoring said shoes when in engagement with said drum and for adjustably positioning the last mentioned ends of said shoes when retracted, said means comprising bell cranks operatively connected at their adjacent ends to each other and at their remote ends to the last mentioned ends of said shoes and floatingly guided intermediate their ends by said plate, said bell cranks cooperating to move one of said shoes into engagement with said drum upon engagement of the other of said shoes with said drum and a screw radially adjustably mounted upon said plate and engageable with an adjacent end of one of said bell cranks for positioning the adjacent ends of said bell cranks to position the last mentioned ends of said shoes with respect to said drum.

2,609,067
HYDRAULIC BRAKE SYSTEM
Roy Blafield, Newport News, Va.
Application March 14, 1950, Serial No. 149,543
4 Claims. (Cl. 188—152)



1. In a brake system for vehicles having pairs of front and rear brakes, a main block having dual pressure generating means positioned therein and means forming a reservoir, a communicating passage in said block leading from one of said pressure generating means to a fluid line connected to the rear pair of wheel brakes, a second passage in said block leading from the other of said pressure generating means to a fluid line connected to the front pair of wheel brakes, a bypass leading from each of said passages to said reservoir, valve means positioned in each of said bypasses and its respective passage, said valve means controlling the flow of fluid through each bypass and its respective passage and being so constructed that if the passage is closed the bypass will be open and if the passage is open the bypass will be closed, and a cross-over control means for selectively operating both of said pairs of wheel brakes from a single one of said generating means.

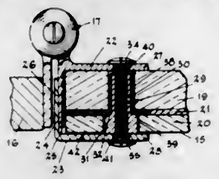
2,609,068
METAL FOIL HONEYCOMB CORE
Theodore P. Pajak, Baltimore, Md., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application March 11, 1949, Serial No. 80,955
9 Claims. (Cl. 189—34)



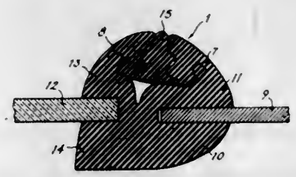
1. A cellular structural material comprising a pair of metal surface sheets separated by a cellular core formed of aluminum foil strips bonded together at spaced intervals with intervening spaces separated to form a plurality of cells, said strips being formed with a plurality of apertures extending therethrough for liberating vapors and gases from within each said cell with the ends of said cells being adhesively joined to the surface sheets by a thermosetting resin to form a vented unitary structure.

2,609,069
HARDWARE ATTACHMENT
Eli H. McLaughlin, Parkersburg, W. Va., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application January 22, 1949, Serial No. 72,229
3 Claims. (Cl. 189—36)

3. In combination, a laminated panel embodying a pair of laminations of unequal thicknesses secured together by an adhesive interlayer, an attachment for securing hardware thereto comprising a pair of angle members each having one leg in interlocking sliding engagement with the corresponding leg on the other angle member and another leg arranged in face to face relation to the corresponding leg on the other angle member receiving said panel therebetween, a cylindrical member having an enlarged portion of slightly greater length than the thickness of said relatively thin lamination and received within an opening in said lamination and a reduced portion of a length less than the combined thickness of the thick lamination and the adhesive interlayer received within an opening in said thinner lamination, a hard metal washer on said reduced portion disposed within the adhesive interlayer between the laminations of said panel and against the shoulder formed at the juncture of said reduced and enlarged portions of the cylindrical member, a soft metal facing on said washer, a sleeve of relatively soft material surrounding said reduced portion, a bolt having a shank passing through an opening in the spaced leg of the angle member adjacent said relatively thin lamination and threaded into the enlarged portion of said cylindrical member clamping said leg against said enlarged portion, and a second bolt having a shank passing through an opening in the spaced leg of the angle member that is adjacent said thick lamination and threaded into the reduced portion of said cylindrical member clamping said thick lamination between said spaced leg and said washer.

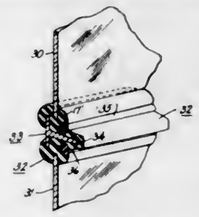


2,609,070
DOUBLE TOGGLE GASKET
Walter C. Frehse, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application July 25, 1950, Serial No. 175,691
3 Claims. (Cl. 189—78)



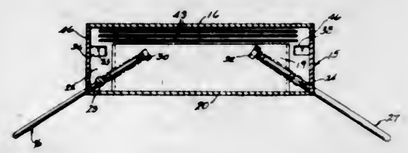
1. A flexible linear seal of rubberlike material for joining two panel edges together, said seal having a body of uniform cross-section with two spaced grooves disposed therein, and a longitudinal opening in said body portion between two of said grooves and disposed generally on one side of a longitudinal plane passing through the midpoints of the base of said grooves and expanding means comprising two toggle elements and an intermediate keying piece, each of said toggle elements being hinged to said body portion along said longitudinal opening on one edge and to the intermediate keying piece on the other edge, said opening and said toggle elements and keying piece being proportioned so that said opening tightly receives said toggle elements and keying piece when the side walls of said panel edge-receiving grooves are spaced sufficiently to receive suitable panel edges, whereby the rubberlike material of said body closely adjacent the edges of the panel edge-receiving grooves is compressed against the portions of a panel in said grooves and said toggle elements are maintained in said opening by the body of the seal pressing upon them.

2,609,071
SEALING STRIP FOR STEEL SASH WINDOWS
Robert O. Morgann and Russell J. Bush, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 25, 1950, Serial No. 181,468
4 Claims. (Cl. 189—78)



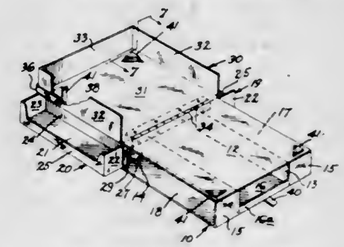
1. In a window mounting for buildings, a structural section metal bar having a T-shaped cross section, two opposed window panes mounted respectively upon opposite sides of the stem of said T-shaped bar a mounting strip of resilient rubber like material interposed between said bar and the two panes mounted thereupon, said resilient strip having a longitudinally extending interior void substantially conforming to the section of said bar and a longitudinal slot opening into said void which permits said resilient strip to be assembled upon said bar and substantially enclose same by yieldably opening said slot and passing said bar therethrough, said strip having opposed grooves therein for retaining the margins of said opposed panes, and wedging means interlockingly engaging said resilient strip and maintaining portions thereof compressed against said pane margins.

2,609,072
FOLDING TABLE OR THE LIKE
Moses Levinson, Yonkers, N. Y., assignor to Nathan Levinson, New Rochelle, N. Y.
Application February 25, 1949, Serial No. 78,305
2 Claims. (Cl. 190—11)



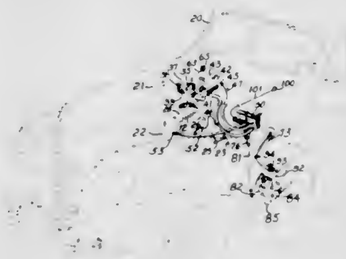
1. In an article of the character described, a box structure having top, bottom and side walls, a member journalled for rotary movement within the box about a substantially horizontal axis near a side wall and below the top wall, an elongated leg member normally lying substantially within the box; said leg member being slidably mounted on the journalled member for axial movement transversely of said horizontal axis; a leg-engaging member mounted within the box above the journalled member and spaced therefrom to engagingly receive an end of the leg member when the leg member is moved to operative position; the side and bottom walls being provided with an opening through which the leg may be manually slid outwardly of the box in a substantially horizontal direction and for the greater part of its length, then swung downwardly about the horizontal axis of said member to substantially upright position, and then pushed upwardly into engagement with the leg-engaging member.

2,609,073
PORTABLE ACCESSORY CASE
Bernard A. McLaughlin, San Francisco, Calif.
Application April 18, 1950, Serial No. 156,655
9 Claims. (Cl. 190—11)



1. A manually portable accessory case including a bottom compartment section having a compartment provided with an access opening in the vertical height dimension of said bottom section, a platform overlying the plane of said bottom section and providing a fixed top wall for said compartment, a cover member having a planar top mounted hingedly at its rear edge to the bottom section substantially in the plane of the platform and selectively swingable on the hinge connection from a position overlying the platform to a swung-back position coplanar with the platform, said cover having side strips and a front strip perpendicular to the planar top, said strips closing the opening of said compartment of the bottom section when the cover is at a closed position.

2,609,074
THROTTLE AND SPEED CONTROLS FOR MOTORS
George T. Leihgeber, Dayton, Ohio
Application June 19, 1948, Serial No. 34,066
12 Claims. (Cl. 192—3)



1. A device for actuating a speed control, including a normally ineffective fluid motor powered by vacuum created pressures, said motor being rendered effective upon operation of a ve-

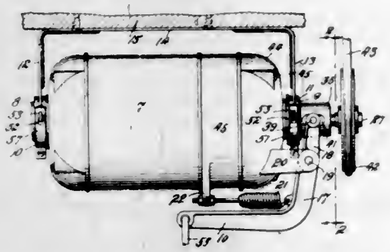
hicle motor, said fluid motor including a cylinder, a piston and piston rod, said device also including a foot pedal to actuate a throttle control rod to operate a throttle valve for producing variable speeds; manually operable means to cause the control rod to be set to control the throttle valve to produce a constant speed; a member cooperating with the throttle control rod and normally held in a position by the fluid motor piston rod to prevent the throttle control rod from being set under control of said manual means until the fluid motor piston recedes from said member; a valve means to control the pressures in the fluid motor; a brake pedal; means intermediate the brake pedal and the valve means to control the latter to cause said member to render the manually operable means ineffective thus preventing said manually operable means from having any effect on said throttle control rod; a gear shifting means having high, second, low and neutral positions; a linkage connected to said intermediate means to control the latter; a cam device actuated by the gear shifting means when the latter is in high gear position to cause the linkage to so control the intermediate means that the latter will control said valve means upon operation of the brake pedal to reduce the constant speed; and means operated by said cam to render the intermediate means inoperative to prevent its control of the valve means, when said gear shifting means is out of high gear position.

2,609,075

POWER TRANSMITTER

Paul Schulder, Brooklyn, N. Y., assignor to Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y., a corporation of New York

Application November 9, 1950, Serial No. 194,920
2 Claims. (Cl. 192—18)



1. A power transmitter of the character disclosed comprising an electric motor having a shaft carrying a driving clutch element at one end of the motor, a closed clutch housing secured over said end of said motor, said closed clutch housing completely enclosing the end of the motor and the driving clutch element and having a braking surface on the inner wall of the same and having an elongated bearing in line with the motor shaft, said elongated bearing having a longitudinally extended slot in the side of the same, said clutch housing having a mounting hub at the outer end portion of the same adjoining the inner end of said slot and the opposite end of the motor having a companion mounting hub, vibration damping cushions on said mounting hubs, an inverted U-shaped mounting bracket having dependent side arms embracing the motor and clutch housing and connected with said cushions, a bearing sleeve slidably operable in said elongated bearing, a shaft journaled in said sleeve and carrying at the inner end a driven clutch member for cooperation with the driving clutch member and with the braking surface and at the outer end a transmission pulley and a shift lever pivotally supported on the clutch housing and having an operating connection extending through said elongated slot at a point adjoining the mounting cushion on the hub of the clutch housing, into engagement with the bearing sleeve and whereby the clutch and brake mechanism is completely enclosed and supported substantially wholly between the cushioned mounting hubs and the clutch shift mechanism is immediately adjoining one of the cushioned mounting hubs.

2,609,076

LONGITUDINALLY AND TRANSVERSELY ADJUSTABLE CONVEYER

Allen D. Brent, Savannah, Ga., assignor to Southern Fertilizer & Chemical Company, Savannah, Ga., a corporation of Georgia

Application October 28, 1949, Serial No. 124,135
4 Claims. (Cl. 193—35)



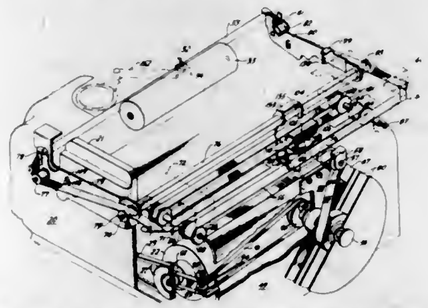
1. In a conveyor, a lateral extensible and contractable conveyor portion comprising a plurality of wheeled lateral conveyor sections, with each lateral conveyor section having like sized ground wheels with the ground wheels of each conveyor section being spaced apart a distance less than the spacing apart of the wheels of the next adjacent conveyor section nearer the inner end of said conveyor portion and each conveyor section being of less width and height than the next adjacent lateral conveyor section nearer the inner end of said conveyor portion.

2,609,077

RIBBON FEED FOR TYPEWRITING MACHINES

Charles Schroder, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application October 22, 1949, Serial No. 122,948
33 Claims. (Cl. 197—151)



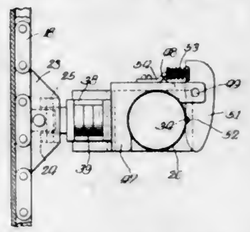
16. In a typewriter having a frame, and a traveling paper carriage thereon, the combination of a plurality of ribbon guides carried by said carriage for directing a ribbon about said carriage in a path which includes the two sides of said carriage and the entire typing line, a ribbon feed roll at each rear corner of the carriage, each said feed roll positioned to receive ribbon from the one of said guides at the opposite end of said carriage, means connecting said feed rolls for synchronous rotation, and means for controlling rotation of said feed rolls.

2,609,078

CONVEYER FOR SOLDERING MACHINES

Otto Wisner, Lowell, Mich., assignor to Lowell Specialty Company, Lowell, Mich., a corporation of Michigan

Application September 21, 1945, Serial No. 617,768
4 Claims. (Cl. 198—19)



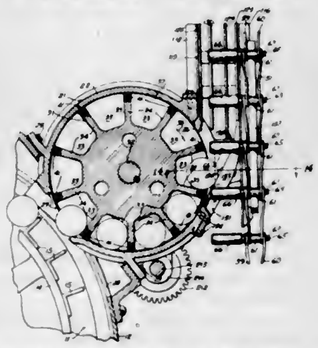
1. In a machine of the character described including an endless conveyor adapted to travel in a substantially horizontal plane, means for actuating said conveyor, depending brackets carried by the conveyor in spaced apart relation and a plurality of holders each pivotally mounted on the depending end of a bracket for supporting shells each having an exterior projection, each holder comprising a portion for engagement with an end of each shell positioned therein to center and accurately position the shell, a stationary jaw carried by the holder in spaced relation to said holder portion and a spring pressed jaw pivoted relative to said stationary jaw, one of said jaws being notched to engage an exteri- projection of a shell and retain the shell in predetermined position on the holder.

2,609,079

FEED MECHANISM FOR PRESSURE COOKERS

Albert R. Thompson, Los Gatos, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware

Application July 23, 1945, Serial No. 606,659
12 Claims. (Cl. 198—28)



1. A container feeding mechanism comprising a rotatable member having a pocket in its periphery for receiving a container therein, means for moving a container in a vertical path substantially tangent to the periphery of said rotatable member comprising a trackway having guide rails for guiding a container for downward movement under its own weight, a single endless chain arranged alongside the trackway opposite the rotatable member and movable lengthwise of said trackway, a plurality of studs carried by said chain, said studs projecting laterally from the chain toward that side of the trackway which is tangent to the periphery of the rotatable member and extending transversely across the trackway for controlling the downward movement of a container for registering the container with the pocket in said rotatable member, and a rigid transfer member having a surface disposed obliquely to the direction of travel of the container in a trackway and on either side of said stud for intercepting the container resting on a stud and for causing the containers to roll laterally along said stud and for transferring each container into the pocket of said rotatable member as the leading wall of said pocket moves downwardly in unison with said stud.

2,609,080

STRAW WINDROWER

Joseph J. Overman, Albany, Minn.

Application December 5, 1946, Serial No. 714,312
1 Claim. (Cl. 198—110)



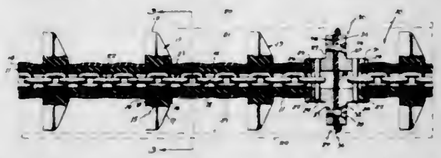
A straw windrowing device for combines having in combination guides adapted to be transversely mounted on a combine, a conveyor frame slidably mounted on said guides for movement laterally of the combine to the right and to the left, an endless slat and chain conveyor mounted in said conveyor frame, a portion of said conveyor frame being longitudinally slotted, a drive shaft extending through the slotted portion of said conveyor frame, a sprocket carried by said shaft and engaging the upper run of one of the chains of said conveyor intermediate the ends of the conveyor, and means for selectively rotating said drive shaft and said sprocket in opposite directions to cause said conveyor frame to slide a limited distance in the direction the upper run of the conveyor is driven and thereafter to remain relatively motionless while said upper run is driven and until said sprocket is rotated in the opposite direction whereupon said conveyor frame will slide a limited distance in the opposite direction and thereupon remain motionless until the direction of said sprocket is again reversed.

2,609,081

FLIGHT CONVEYER

Henry W. Hapman, Detroit, Mich., assignor of forty per cent to Hannah Jane Hapman, Detroit, Mich.

Application February 8, 1950, Serial No. 143,118
3 Claims. (Cl. 198—168)



3. A flight conveyor comprising an elongated tubular member of elastic deformable material, a plurality of disc flights mounted on said tubular member in spaced relationship and in sealed engagement therewith, an elongated interlocking link chain disposed within said tubular member, and a pair of interconnectable coupling halves secured to opposite ends of said interlocking link chain, each of said coupling halves

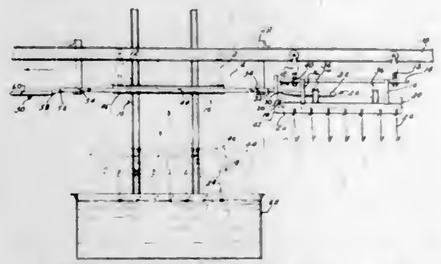
having a cavity therein receiving one end of said tubular member in sealing engagement, and a chain-anchoring element in said cavity secured to its respective coupling half, the opposite ends of said chain being anchored to said chain anchoring elements in their respective cavities.

2,609,082
HOOK CONVEYER
John M. Leach, Port Washington, N. Y.
Application March 12, 1951, Serial No. 215,114
3 Claims. (Cl. 198—177)



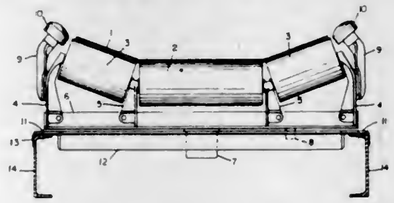
1. A conveyor comprising a pair of curved, spaced apart track sections having horizontally disposed faces and the inside one of which has a vertically disposed face, trolleys positioned between the track sections, each trolley comprising a main member, a pair of vertically disposed wheels revolving about a horizontal axis carried by said main member and supported by said horizontally disposed faces, a horizontally disposed wheel revolving about a vertical axis substantially intersecting the axis of the horizontally disposed wheels and carried by said main member, a third track section disposed above the outside one of the two above mentioned track sections and spaced vertically from said outside track sections a distance such that a slight rock of the trolley in a direction transverse of the line of travel will bring the outside wheel in contact with the top track section, the inside wheel in contact with the horizontal face of the inside track section and the horizontally disposed wheel in contact with the vertical face of said inside track section, and sections connecting said trolleys together and positioned above the horizontally disposed wheel but not above the axis of the vertically disposed wheels.

2,609,083
MATERIAL TRANSFER FOR CONVEYERS
John M. Leach, Port Washington, N. Y.
Application March 17, 1951, Serial No. 216,224
2 Claims. (Cl. 198—177)



1. A conveyor comprising a supporting means, a mobile means supported by and movable along said supporting means, a hook carried by said mobile means, a load support carried by said hook, an upwardly extending hook carried by the load support, a push-receiving element carried by the load support, a co-acting pusher element carried by the mobile means, and a transfer bar having an end extending into the path of travel of the upwardly extending hook and an inclined section and a laterally deflected section, whereby the upwardly extending hook is moved up the incline of the transfer bar and along the laterally deflected section by the pusher element operating against the push-receiving element when the upwardly extending hook passes over the end of the transfer bar, so as to remove the load support from the hook carried by the mobile means.

2,609,084
SELF-ALIGNING BELT IDLER
Herbert S. Hersey, Cleveland, Ohio, assignor to The C. O. Bartlett & Snow Co., Cleveland, Ohio, a corporation of Ohio
Application September 23, 1950, Serial No. 186,376
7 Claims. (Cl. 198—202)

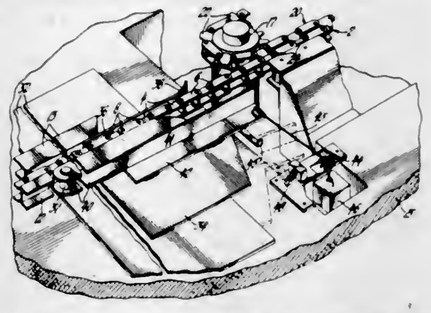


1. A conveyor belt training device comprising the combination with a belt supporting cradle having a rotatably supported roller engaging tne under face of the belt, means pivotally supporting said cradle on a vertical axis substantially centrally of the belt area, of an auxiliary roller, supported by said cradle for rotation about an axis angularly related to the plane of such marginal portion of the belt, said auxiliary roller having a dome-shaped head and being so positioned that the plane of such marginal portion of the belt intersects the roller on such dome-shaped head, whereby as the edge of the belt moves upwardly on the dome-shaped head of the auxiliary roller, rolling contact between the belt and auxiliary roller results in a progressive increase in the speed of the auxiliary roller and as the edge of the belt goes beyond the crown of the auxiliary roller the latter will exert a frictional drag on the belt.

2,609,085
CONVEYER DRIVE CONTROL
Frank A. Terhune, Natick, Mass., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 7, 1948, Serial No. 43,081
9 Claims. (Cl. 198—203)

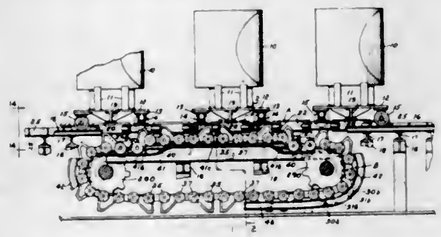
1. In a conveyor system, a continuous conveyor line driven by a plurality of spaced and separately controllable driving units, a movable raceway adjacent each drive unit comprising two longitudinally staggered relatively fixed members embracing the conveyor line, a stationary raceway for guiding the conveyor line between the movable raceways and the driving units, each of the stationary raceways comprising oppositely disposed parallel guide members having their ends adjacent the movable raceway members in staggered complementary relation therewith, each of the movable raceways being pivotable

about the end thereof most remote from its adjacent driving unit in response to excessive slack occurring in the section of the conveyor line em-



braced thereby, switch means for controlling each drive unit independently and actuatable by pivotal movement of the movable raceway adjacent thereto.

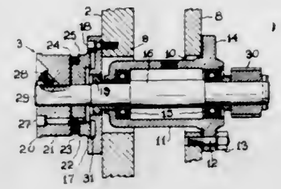
2,609,086
CATERPILLAR DRIVE CHAIN
Jesse E. McBride, Highland Park, and Walter G. Boehm, Detroit, Mich., assignors to Palmer-Bee Company, Detroit, Mich., a corporation of Michigan
Application May 26, 1949, Serial No. 95,534
10 Claims. (Cl. 198—203)



1. A conveyor system comprising load carriers, a conveyor chain for propelling said carriers, members on said chain at regular fixed intervals, an endless drive chain for said conveyor chain, outwardly extending dogs pivotally connected to said drive chain adapted to simultaneously engage opposed surfaces of said members for imparting driving or retarding force thereto with substantially no lost motion upon reversal of force, rollers on said dogs laterally spaced from said drive chain and longitudinally spaced from the pivotal connections of said dogs, other rollers on the pivotal axes of said dogs laterally spaced from said drive chain, cam means for engagement by said first-named rollers adapted to impart articulation to said dogs in a manner causing them to engage said members and absorb drive reaction during drive engagement, and a track for engagement by said second-named rollers to absorb drive reaction during the drive engagement of said dogs.

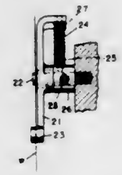
2,609,087
MECHANISM FOR DRAWING WIRE
Edwin J. McIlvried, Cuyahoga Falls, Ohio, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio
Application March 8, 1948, Serial No. 13,586
6 Claims. (Cl. 205—20)

4. A mechanism for drawing wire comprising a spindle, a wire drawing drum on said spindle comprising axially adjacent parts each slip-fitted on one end of said spindle and an annulus between the juxtaposed faces of said parts defining therewith a peripheral groove around which wire is adapted to be wrapped, axially extending screw means within said drum but radially outward of said spindle for drawing said parts together to frictionally clamp said annulus therebetween whereby said parts and annulus



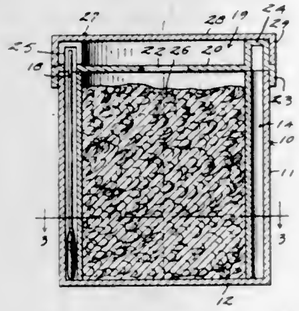
may be axially slipped onto and off said spindle as a unit, said spindle being formed with an axially extending keyway adjacent such end thereof and within the drum part nearest the end of said spindle, and a key member having threaded engagement with the last-mentioned part and having an end portion engageable with such keyway at any desired point axially therealong so as to non-rotatably secure said drum on said spindle at a desired axial position.

2,609,088
WIRE DRAWING MECHANISM
Edwin J. McIlvried, Stow, Ohio, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio
Application June 26, 1948, Serial No. 35,323
1 Claim. (Cl. 205—22)



An anti-vibration device for resiliently contacting a vertically travelling stretch of wire between a die and a wire drawing capstan to eliminate marks on the wire caused by vibration thereof when drawn through the die, comprising a substantially horizontal pivot, a generally vertically disposed finger oscillatorily mounted on said pivot and having an end portion laterally contacting such stretch of wire, a coil spring bearing on said finger to rotate the latter about said pivot to a position with such end portion resiliently contacting such stretch of wire, a projection on said finger in telescoped relation with one end of said spring, and a bushing rotatably adjustable on said pivot with respect to said finger and provided with a radial projection in telescoped relation with the other end of said spring for laterally deforming the end portions of said spring with respect to each other from the unstressed condition of said spring whereby the tendency of said spring to assume its unstressed condition exerts resilient pressure on said finger to rotate the latter as aforesaid.

2,609,089
SWAB HOLDER
Adolph M. Rothbardt, Chicago, Ill.
Application February 24, 1950, Serial No. 145,937
2 Claims. (Cl. 206—1)



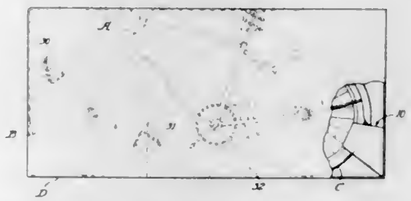
1. A swab holder comprising a cylindrical receptacle, a longitudinally grooved cylindrical member within said receptacle, the grooves of said member confronting the inner side of said receptacle and open at the top, and a cap rotatably fitting over the upper end of said receptacle, said cap being formed with an inverted U-shaped channel overlying the upper ends of said grooves, said cap having a cutout intersecting the top and side wall of said cap and overlying said channel thereby selectively to expose and afford a finger grip for the upper end of a swab stick upon rotation of said cap whereby a swab stick may be removed from a longitudinal channel by vertical movement through said opening without removing said cap, a shoulder extending peripherally about said cap and a second closure cap adapted to set on said shoulder.

2,609,090
DISPLAY CONTAINER
Walter J. Tyrseck, Montville, Conn., assignor to Robertson Paper Box Co., Inc., Montville, Conn., a corporation of Connecticut
Application November 30, 1948, Serial No. 62,610
4 Claims. (Cl. 206—45)



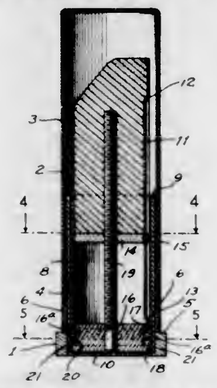
1. A display container blank comprising a series of six aligned panels defined and separated from each other by parallel score lines for folding, the blank being adapted for folding continuously in one direction to form the container and comprising panels for forming a rectangular outer sleeve and a partition wall parallel to opposed side panels of the sleeve and dividing the same into two compartments, the panel which is to form the partition wall having one connected side flap element foldable transversely of the blank to form a shelf in one of the said compartments, and a flap hinged thereto and lying against the outer wall of the compartment and having a cut out forming a tongue for engaging over the top of said wall to hold the shelf in position.

2,609,091
BICYCLE WHEEL BRACE
Charles R. Rothe, Glen Ellyn, and Julian D'Esposito, Chicago, Ill., assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application June 14, 1949, Serial No. 99,089
4 Claims. (Cl. 206—46)



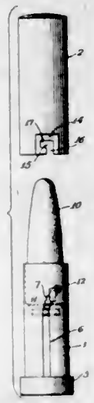
1. A paperboard packing brace adapted for disposition in a shipping container to hold a wheel spaced axially from parallel walls thereof and radially from another wall connecting the parallel walls, which comprises a tubular structure defined by two spaced end panels having front, rear, and side edges and disposed at an acute angle to each other with the front edges closer than the rear edges, the end panels being substantially equal in width but unequal in length, and a pair of side panels extending between the side edges of the end panels, the end panels having recesses formed in their front edges spaced from both side edges and shaped to the cross section of the circumferential portion of a wheel to be braced, the rear edges of the panels lying in a common plane, whereby the brace may be disposed in an enclosing container with its forward portion frictionally engaged on the wheel with its rear portion engaging the connecting wall and with the rear edge of the longer of said end panels engaging in a corner of said carton and the side panels engaging the parallel walls to maintain the wheel spaced from such walls.

2,609,092
CARTRIDGE-TYPE LIPSTICK
Chester H. Braselton, New York, N. Y.
Application September 15, 1948, Serial No. 49,327
5 Claims. (Cl. 206—56)



1. In a cosmetic applicator of the removable cartridge type, in combination, a hollow base adapted to detachably receive a cover for the applicator; a detachable cartridge comprising a sleeve open at its upper end; said cartridge having a closure mounted at the lower end of its sleeve in rotatable but non-longitudinally movable relation to its sleeve; said closure formed to enter said base in any rotated position relative to said base; said closure comprising means establishing, in any such position of entry, a frictional retaining and driving connection between said closure and said base; said cartridge sleeve, in said entered position, extending beyond said base; and feeding mechanism inside the cartridge operable by relative rotation of said sleeve and base.

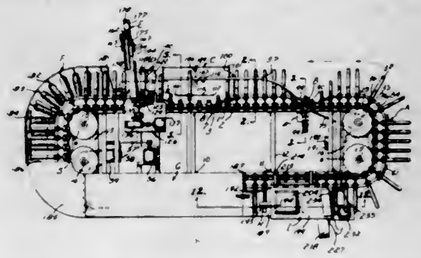
2,609,093
LIPSTICK CONTAINER
Anthony P. Lynn, Elmhurst, Ill.
Application March 23, 1950, Serial No. 151,446
5 Claims. (Cl. 206—56)



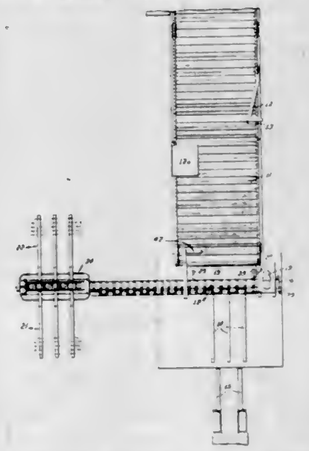
1. A lipstick container comprising a tubular receptacle, a cup for holding lipstick slidably movable in said receptacle to move said lipstick to an extended position or a confined position with respect to said receptacle, a tubular cover telescopically engageable with said receptacle, a projection upon a wall of said cup, said receptacle being provided with a slot disposed parallel to the axis of said receptacle throughout a portion of its length and which is curved in a lateral direction at one end adjacent the open end of the receptacle, said projection being positioned in said slot, said cover being provided with a slot of substantially bayonet form one arm of which is disposed parallel to the axis of said cover and opens to an end edge of said cover and the other arm is transversely disposed and extends in a direction laterally opposite to the curved portion of the slot in the receptacle, said projection being removably engageable with the transverse arm of said bayonet slot whereby movement of said cover moves said projection in the receptacle slot to move a portion of said lipstick to extended position with respect to said receptacle, the curve in said receptacle slot guiding said projection out of engagement with the bayonet slot after the cover has moved axially a predetermined distance to permit removal of said cover from said receptacle.

2,609,094
APPARATUS FOR TESTING AND SORTING THIN RUBBER GOODS
Charles H. Fry, North Kansas City, Mo., assignor to Dean Rubber Manufacturing Company, North Kansas City, Mo., a corporation of Missouri
Application July 28, 1950, Serial No. 176,442
6 Claims. (Cl. 209—10)

1. Apparatus for processing thin, hollow, flexible rubber articles or the like comprising, a mandrel of electroconductive material arranged to receive and support an article thereon without wrinkling, a tank containing a liquid, means for lowering and raising the mandrel in and out of the tank for substantially immersing the article on said mandrel for wetting said article, an electric contact arranged to be engaged by the mandrel after the article is removed from the liquid and while the article is wet, a flexible element of electroconductive material arranged to engage the wet article and conform to a portion thereof simultaneously with engagement of the electric contact and mandrel, means applying liquid to the flexible element to maintain same in wet condition, means for rotating the mandrel while the contact and flexible element engage the mandrel and article respectively, means for maintaining a high potential of electricity between the flexible element and mandrel whereby the electricity will flow therebetween and complete a circuit to manifest presence of a defective article when the article is perforated or has a wall thickness below normal, and means operable responsive to completion of said circuit for discharging the defective article from the mandrel.



2,609,095
APPARATUS FOR SORTING HEAVY BARS
Thomas K. Graham and Carl P. Etterer, Great Falls, Mont., assignors to Anaconda Copper Mining Company, New York, N. Y., a corporation of Montana
Application February 26, 1949, Serial No. 78,572
2 Claims. (Cl. 209—72)



1. Apparatus for sorting heavy bars comprising a bar conveyor, means for initially aligning the ends of the bars on the conveyor, a skid fixedly mounted in position to receive bars discharged over the end of the conveyor, a table overlying

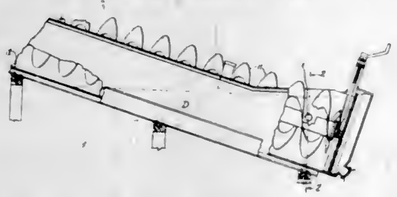
the fixed skid and hingedly mounted for movement through an arc downwardly into and upwardly away from position to intercept bars discharged over the end of the conveyor, a reversible pneumatic motor having a piston movable between limits connected to said hinged table, a source of compressed air connected to said motor through a solenoid reversing valve, means normally holding the valve in position for energizing the motor in a direction to hold the table in its upward position, and a switch connected to the valve solenoid for shifting the valve into position to energize the motor in a direction to move the table to its downward position, said switch being positioned alongside the conveyor in position to be actuated by a bar that has been displaced laterally of the conveyor a predetermined distance from its position of initial alignment with the other bars as said bar comes into position to be discharged over the end of the conveyor but being out of position to be actuated by any bar that remains in said position of initial alignment, whereby the table is lowered to intercept each such displaced bar and separate it from bars received by the fixed skid.

2,609,096

AUTOMATIC FLOW CONTROL SYSTEM FOR ORE CONCENTRATORS

Edmund C. Bitzer, Golden, Colo., assignor to Colorado Iron Works Company, Denver, Colo., a corporation of Maine

Application September 18, 1948, Serial No. 49,928
1 Claim. (Cl. 209—155)



A concentrator and dewaterer unit for processing ore in series said units being arranged in laterally spaced relation, the concentrator having a gangue overflow at certain level and a concentrate discharge opening at a lower level, the gangue overflow and the concentrate discharge opening being in communication by a teeter column, the dewaterer unit having a normally open fluid outlet positioned at a level below the gangue overflow of the concentrator, a manually controlled valve forming means for adjusting the rate at which fluid flows through said fluid outlet, manually adjustable means for feeding ore pulp to the concentrator at a predetermined rate, and means for adjusting the rate of flow of material through the concentrator by varying the effective hydrostatic head producing such flow said means comprising the valve in the fluid outlet from the dewaterer.

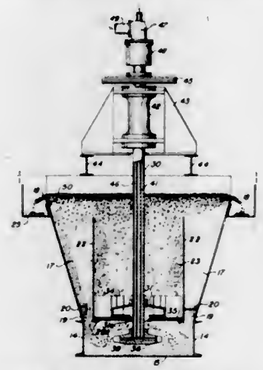
2,609,097

FLOTATION MACHINE

Roger Dering, Salt Lake City, Utah, assignor to Combined Metals Reduction Company, Salt Lake City, Utah, a corporation of Utah

Application May 12, 1949, Serial No. 92,868
7 Claims. (Cl. 209—169)

1. A flotation machine, comprising an open container for pulp; pulp inflow means communicating with one end of said container adjacent the bottom thereof; tailings outflow means leading from said container at the other end thereof; a second and smaller open container for pulp disposed within the first container and spaced upwardly from the bottom and inwardly of side walls thereof to define a pulp flow conduit below the bottom of said second container, in flow communication with said pulp inflow means, and to define, further, pulp recirculation columns between side walls of said first and second containers, in flow communication with the open top of said second container and with said pulp flow conduit; pulp aerating means operably disposed within said pulp flow conduit; passage means leading through the said bottom of the second container; an agitation impeller operatively disposed within said second container above said passage means and adjacent the said bottom thereof, so as to be completely submerged and surrounded by liquid, without access to the atmosphere, during operation of the machine, for aiding elevation of pulp through said passage means and for agitating said pulp within the said second container; and froth overflow lips defined along the upper margins of side walls of said first container, said second container being of effectively less height than said first container to provide for recirculation flow of pulp over side walls thereof below said froth overflow lips and underlying the overflowing froth column.



2,609,098

METHOD OF AND APPARATUS FOR CONTINUOUSLY CLEANING AND SEPARATING MINERALS OF DIFFERENT SETTLING RATES

Charles W. Lotz, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois

Application March 7, 1950, Serial No. 148,213
23 Claims. (Cl. 209—457)



1. The method of separating mineral particles of lower settling rate from mineral particles of higher settling rate, comprising establishing a horizontally elongated bed of the particles to be separated, introducing water and a mixture of the different settling rate particles to one end of the bed, removing water from the opposite

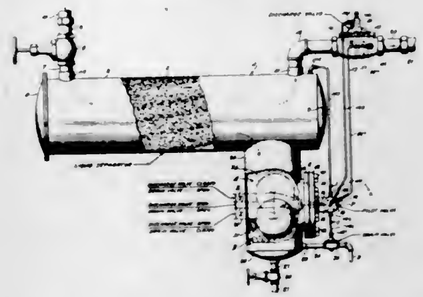
end of the bed to establish a hydraulic flow which will effect horizontal advancement of the particles toward the last mentioned end of the bed, separately removing from the last mentioned end of the bed the particles of lower settling rate and the particles of higher settling rate which have been stratified while advancing lengthwise of the bed, repeatedly subjecting the bed to cycles of vertically acting alternate pulsion and suction strokes of water to effect stratification of the particles in accordance with their respective settling rates, and during the vertically acting pulsion stroke of each cycle supplementing the horizontal particle advancing action of the aforesaid hydraulic flow by introducing a fluid into the bed in a plurality of jets substantially parallel to the bottom of said bed and spaced longitudinally over substantially the entire bottom of the bed, said jets being directed toward the removal end of said bed to assist in advancing toward the latter the particles having the higher resistance to said hydraulic flow.

2,609,099

LIQUID SEPARATION APPARATUS

Donald G. Griswold, Alhambra, Calif.

Application December 9, 1944, Serial No. 567,442
13 Claims. (Cl. 210—54)



1. Apparatus for separating two immiscible liquids, one of which has a greater specific gravity than the other, comprising: a separator casing having an inlet for said liquids and an outlet for the lighter of said liquids; means providing a chamber communicating with said casing in which the heavier liquid is adapted to collect and having an outlet for said heavier liquid; a hydraulically operable discharge valve for the lighter liquid connected with the outlet of said casing and a hydraulically operable drain valve for the heavier liquid connected with the outlet of said chamber; and means responsive to variations in the level of the heavier liquid for simultaneously controlling the supply of operating fluid under pressure to, and the exhaust of said operating fluid from, said discharge and drain valves for simultaneously controlling the opening and closing of said discharge and drain valves in accordance with variations in the level of the heavier liquid in said chamber.

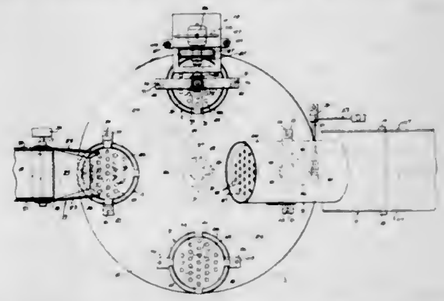
2,609,100

DRYING MACHINE HAVING CENTRIFUGAL UNITS

Samuel L. Vitale, Detroit, Mich.

Application April 2, 1947, Serial No. 738,853
4 Claims. (Cl. 210—63)

1. A drying machine comprising a turntable having a plurality of vertically-disposed bearings spaced in a circular path outwardly from the center thereof, a plurality of open-sided frames having bearing-engaging portions rotatably mounted in said vertical bearings, each frame having a pair of spaced vertical uprights disposed on opposite sides of the axis of its respective bearing substantially in a plane passing through the axis of said bearing, each frame having a pair of horizontally-disposed coaxial trunnion bearings mounted thereon, a perforated vertically-disposed receptacle having trunnions positioned on the sides thereof intermediate the upper and lower ends thereof, said receptacle being tiltably mounted in said trunnion bearings in each frame, each of said frames having a coupling-receiving portion thereon, said trunnion bearings being mounted on said uprights, a latching device mounted on said frame and engageable with said receptacle in its vertical rotatable position, and a power-driven receptacle rotating device having a power-transmitting coupling thereon mounted adjacent said turntable in successive registry with each of said frames upon rotation of said turntable, said coupling being selectively engageable with and disengageable from the coupling-receiving portion of each of said frames upon arrival of each frame in registry with said coupling.

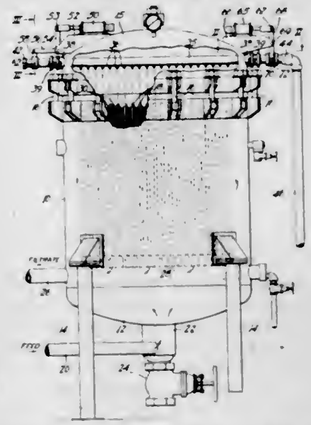


2,609,101

FILTER INCLUDING AUTOMATIC RECONDITIONING DEVICE

Eugene H. Howland, Grand Island, and Raymond G. Tessmer, Tonawanda, N. Y., assignors to Arnold Jacobowitz, Buffalo, N. Y.

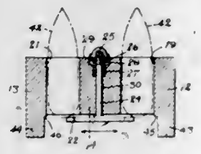
Application July 7, 1949, Serial No. 103,398
8 Claims. (Cl. 210—182)



1. A filter unit comprising an open top casing, a plurality of filter leaves disposed in parallel

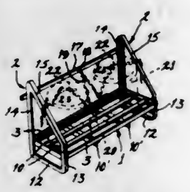
relation within said casing and individually coupled to a filter outlet manifold, a top cover for said casing and means for detachably locking said cover in closed position upon said casing, liquid inlet means for delivering under pressure into said casing a supply of liquid to be filtered whereby the latter flows against said filter leaves and the filtrate flows through the interiors of said leaves and thence through said manifold while the solids filtered out of said liquid are deposited against the outer surfaces of said leaves, and solids removal means for clearing away said deposited solids as required to maintain said leaves in efficient filtering condition, said removal means comprising a fluid spray header of tubular form mounted within said top cover to extend diametrically of said casing and formed with fluid spray nozzle devices at intervals therealong, and motor means operatively connected between said top cover and said spray header for mechanically rocking said header about its longitudinal axis and simultaneously and independently reciprocating said header in axial directions.

2,609,102
SHUTTLE LOADING RACK
Joseph Henle, North Bergen, N. J.
Application September 12, 1951, Serial No. 246,324
4 Claims. (Cl. 211—13)



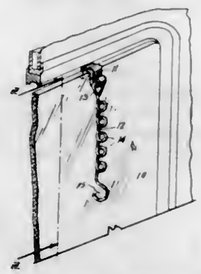
1. A device for containing shuttles comprising a rack having a plurality of rows of sloped open-ended chambers, a floor member slidably connected to said rack and disposed below said chambers, the chambers of each row having a slope equal but opposite to the slope of the chambers of each adjacent row, and means for urging said member upwardly toward said rack.

2,609,103
REFUSE CAN SUPPORT
Albert H. Gravos and Philip J. Ivy, Spokane, Wash.
Application November 10, 1949, Serial No. 126,622
4 Claims. (Cl. 211—71)



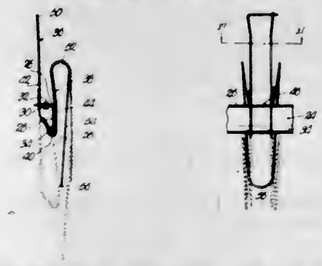
1. A support for refuse cans comprising a frame having a bottom and end walls, said end walls having front and rear bars formed with inwardly extending side flanges along their outer side edges, said bottom having end bars and front and rear side bars formed with upstanding flanges along outer side edges, the front and rear side bars being formed with slots leading from their ends at the junction of said side edges and said flanges of the front and rear side bars into which side flanges of the front and rear bars of the end walls fit, the flanges of the end bars of said bottom being formed with slots leading from their ends along their lower side edges and into which end portions of the said front and rear bars fit, the said front and rear side bars having their end portions rigidly secured in overlapped relation to the end bars and having their upstanding flanges detachably secured against inner surfaces of the flanges of the front and rear bars of the end walls, and transversely spaced bars extending longitudinally of the bottom and rigidly secured upon the end bars.

2,609,104
MULTIPLE COAT HANGER SUPPORT
Kant F. Leach, Englewood, Colo.
Application March 17, 1949, Serial No. 81,901
2 Claims. (Cl. 211—86)



1. A garment hanger support for use in supporting a plurality of hooked garment hangers from the top of a planar member such as a pane of glass or the like, comprising a metal rod like member having one end provided with means comprising a hook for engaging the top of the planar member, that portion below the hook being formed into a plurality of closed coils of substantially equal diameters, the centers of the coils being spaced from each other a distance greater than the diameters of the coils, the portions of the rod like member connecting the coils being straight and in substantial axial alignment, the planes of the coils being substantially parallel to the plane of the hook, said hook being formed from sheet metal and connected with the end of the rod like member for pivotation about an axis perpendicular to the plane of the coils.

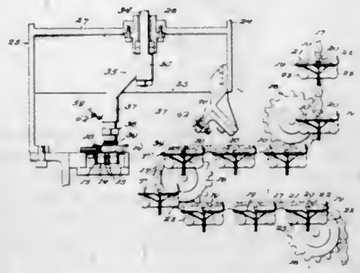
2,609,105
COMBINATION CLOTHESLINE AND FASTENING DEVICE
Paul Weaver, Chico, Calif., assignor to E. W. Fawkes, Chico, Calif.
Application May 29, 1950, Serial No. 164,992
3 Claims. (Cl. 211—124)



1. A clothespin assembly comprising an elongated support having a pair of flanges in angular

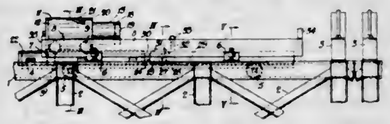
relation, one of the flanges being perforated; a resilient loop embracing the support and having one leg thereof slidably mounted in the perforation of said one flange and the other leg adjacent the other flange; and a bead on the other flange, said bead being disposed within the bight of said loop for holding a fabric article clamped in place against the loop when the latter is in an article holding position.

2,609,106
CAP TRANSFER MECHANISM FOR DRYING OVENS
Ernest A. Tesch, Jr., Chicago, Ill., assignor to Phoenix Metal Cap Co. Inc., Chicago, Ill., a corporation of New York
Application August 25, 1948, Serial No. 46,067
4 Claims. (Cl. 214—1)



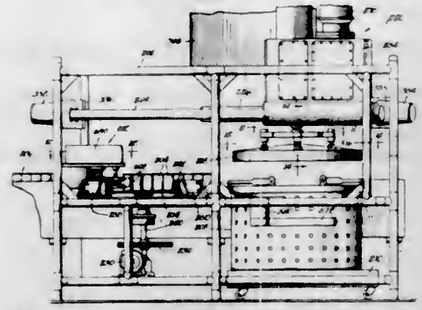
1. A cap transfer mechanism for lifting a group of caps from a moving conveyer and placing the same on a moving oven drying tray comprising a series of cap carriers independently mounted for rotation about a vertical axis and movement longitudinally of said axis, mechanism for rotating said carriers so as to position the same first over the conveyer and thence over the tray, and means for lowering said carriers into engagement with the caps on the conveyer and again for lowering said carriers for placement of the lifted caps on a tray, an actuating shaft connected to each carrier for rotating the same, an internal gear connected to said actuating shaft, a sun gear disposed within said internal gear and planet gears for imparting rotation of the sun gear to the internal gear, means for supporting said planet gears whereby they may be shifted about the axis of the sun gear, and an actuating cam for shifting the planet gears so as to accelerate the movement of the carriers to the speed of movement of the conveyer while lifting the caps from the conveyer and for shifting said planet gears so as to decelerate the movement of the carriers to a substantially standstill for placing the caps on a tray.

2,609,107
BAR FEEDER
Basil Gray and George Shewan Cleghorn, Sheffield, England, assignors to English Steel Corporation Limited, Vickers Works, Sheffield, England, a British company
Application November 17, 1949, Serial No. 127,970
In Great Britain November 22, 1948
10 Claims. (Cl. 214—1)



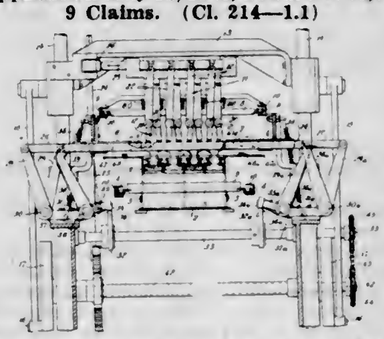
1. Apparatus for feeding a bar reeling machine comprising means for supporting a bar to be reeled with its leading end close to the mouth of said machine, a displaceably mounted yieldable buffer device arranged, on displacement, to apply axial pressure to the trailing end of said bar, means for displacing said buffer device to apply said pressure, and means associated with said buffer device for operation on set-back of the buffer during said pressure application, to twist said bar about its longitudinal axis.

2,609,108
ARTICLE HANDLING MACHINE
Gustaf J. Peterson and Clarence J. Smith, Rockford, Ill., assignors to Odin Corporation, Chicago, Ill., a corporation of Illinois
Application April 30, 1945, Serial No. 591,026
38 Claims. (Cl. 214—1)



1. A machine for handling metal articles at and between loading and unloading stations comprising a support at the loading station, means for feeding metal articles onto the support, means for moving the support during the feeding of the articles thereto to effect a rearranging of the aricles on the support into a composite group having a predetermined pattern, a counter actuated by the articles fed to the support, a magnetic grapple shaped to conform to said pattern for removing the articles from the support, energizing means for the grapple for causing the articles to adhere thereto, and means for shifting the grapple from said support to the unloading station along a predetermined path of travel, said counter controlling the movement of said support and the action of the grapple energizing and shifting means.

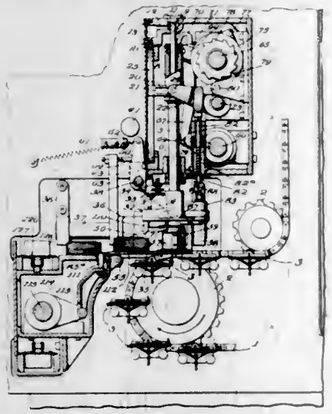
2,609,109
CASE UNLOADER
Edgar Ardell, Middletown, Conn., assignor, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Application May 12, 1948, Serial No. 28,721
9 Claims. (Cl. 214—1.1)



1. An apparatus for unloading articles from shipping cases, a case guideway, a horizontal

platen disposed above the case guideway and having separable sections forming together a substantially flat surface to receive the articles, means for lifting articles out of a case on the case guideway and depositing them upon the platen, means operable to shift the separable sections of said platen laterally apart a distance not less than the width of the inside of the case to allow the operation of said lifting means between said sections in lifting the articles and to close said sections together prior to the depositing operation of said lifting means, stripping means operable to strip the cases from the articles as they are being raised between said platen sections, means for advancing the articles off the platen, and means for advancing the cases along the case guideway.

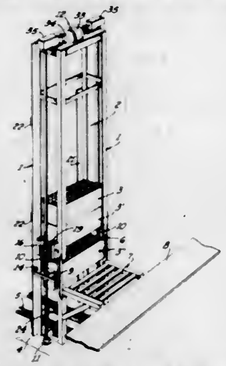
2,609,110
JAR LID REMOVING MECHANISM FOR DRYING OVENS
Ernest A. Tesch, Jr., Chicago, Ill., assignor to Phoenix Metal Cap Co., Inc., Chicago, Ill., a corporation of New York
Application August 11, 1949, Serial No. 109,693
16 Claims. (Cl. 214—6)



4. A lid removing mechanism for lifting lids from the trays of a drying oven comprising a series of lifting units operating independently and simultaneously to remove the lids from a tray, each lifting unit including a pick-up head carrying a suction cup, means for moving said pick-up head to place the suction cup in contact with a lid on a tray and for raising said lid vertically from the tray, a stacking plate, means for reciprocating said plate across the path of travel of said cup when the cup is in the upper part of its stroke, and means for releasing the lid from the cup so that the lid will drop onto said plate or other lids carried thereon.

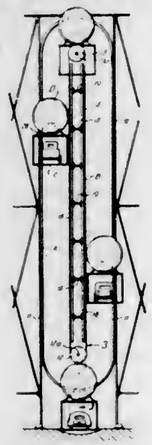
2,609,111
BOX STACKING MECHANISM
Bruner R. Daves and Warren L. Irvine, Claremont, Calif.
Application November 22, 1946, Serial No. 711,524
16 Claims. (Cl. 214—6)

1. In a box stacker, the combination of: an elevator adapted to be reciprocated vertically between a box receiving position and an upper position to permit this to receive boxes and elevate the same in the formation of a stack; latch means for supporting said stack as it is thus progressively formed; means for delivering boxes horizontally in a given direction onto said elevator; means for receiving said stack from said elevator after it is formed and discharging it out of said stacker in the same direction as that in which said boxes were delivered to said stacker; a pair of gates disposed alongside opposite edges and in front of the path along which said elevator oper-



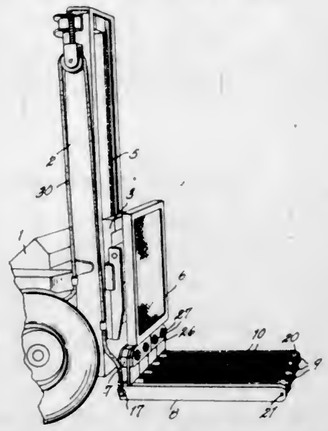
ates vertically, said gates acting as limit stops for individual boxes being fed onto said elevator and as stack guides; and means operating in timed relation with the delivery of said stack from said elevator onto said stack discharge means for displacing said gates from n front of said stack to permit the latter to be discharged from said stacker.

2,609,112
ELEVATOR APPARATUS
James G. McKenzie, Houston, Tex.
Application March 26, 1949, Serial No. 83,583
9 Claims. (Cl. 214—16.1)



1. An elevator and conveying apparatus including, a pair of endless chain conveyors mounted in spaced relation to each other, a rigid gear rack encircling each conveyor in spaced relation thereto, and a movable carrier assembly mounted between each chain conveyor and its associated gear rack and comprising a sprocket in constant engagement with the chain conveyor, and a gear secured to the sprocket and in axial alignment therewith in constant engagement with the gear rack, and means for driving the conveyor chains whereby rotation is imparted to the sprocket of each carrier assembly to cause the gear of said assembly to travel along the gear rack which it engages.

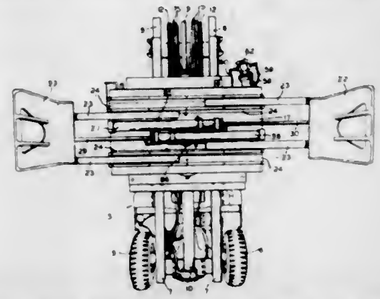
2,609,113
FORK STRUCTURE FOR LIFT TRUCKS AND HOISTS
Levi D. Huffman, Albion, Mich., assignor to Service Caster and Truck Corporation, Albion, Mich.
Application March 16, 1948, Serial No. 15,235
15 Claims. (Cl. 214—65.2)



1. A structure of the class described having a vertically movable carriage, a lift bar provided with a plurality of pairs of tines of channel section, the tines of each pair being spaced with the channels thereof facing, pairs of plates welded to the tops of the tines in vertically disposed position and bolted to opposite sides of said lift bar, inner retainer plates bridging the flanges of each tine at the inner ends thereof and having outer edges curving outwardly from the tine to which they are connected, an air manifold pipe supported by the webs of said tines and said inner retaining plates, nipples having smooth outer ends projecting from said manifold into the channels of the tines, end blocks having curved tapered ends removably secured within the outer ends of said tines and having outer retaining plates secured thereto in spaced relationship with the web of the tine to which they are secured, a pneumatic expansible work gripping tube positioned within the channel of each of said tines with its ends behind said retaining plates, said tubes being of generally flattened cross section and having flexible gripping faces along the exposed sides thereof projectable from the tines, end members in the ends of said tubes, the inner end members defining apertures receiving the ends of said nipples, expander rods positioned in each of said tubes and having end pieces engaging said end members to prevent longitudinal collapse of said tubes and manually controllable means for supplying air under pressure to said manifold.

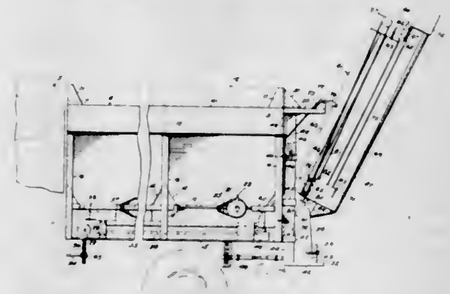
2,609,114
INDUSTRIAL TRUCK ATTACHMENT
E. Ryan Backofen and Elmer J. Dunham, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application January 5, 1950, Serial No. 136,878
2 Claims. (Cl. 214—66)

1. For use with an industrial truck having a movable load supporting carriage, the combination of a first vertical plate adapted to be secured to the load supporting carriage, a rotatable vertical frame including a second plate spaced from said first plate, clamp arms mounted on said rotatable frame for movement toward and away from each other, hydraulic means carried by said rotatable frame and being adapted to effect movement of said clamp arms, a support disposed intermediate said first and second plates and secured to said first plate, a cylindrical distributor rotatably mounted in said support and projecting



through said second plate, the axis of said distributor coinciding with the axis of rotation of said rotatable frame, and connecting means between the end of said distributor which projects through said second plate and said hydraulic means.

2,609,115
SELF-UNLOADING CONVEYER BODY
Eli Oklejas, Bolles Harbor, Mich.
Application September 26, 1949, Serial No. 117,789
9 Claims. (Cl. 214—83.26)

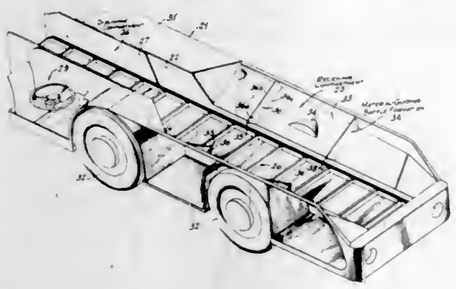


1. A self unloading conveyor structure including a hopper, a discharge conveyor support mounted thereon for vertical sliding adjustment, and a discharge conveyor mounted on said support for swinging in vertical and horizontal planes.

2,609,116
SHUTTLE CAR
William R. Beck, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 1, 1950, Serial No. 182,745
3 Claims. (Cl. 214—83.36)

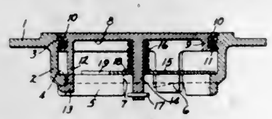
1. In a shuttle car, the combination of a material receiving body having two side walls extending substantially the full length of said body and defining receiving and discharge compartments, and a conveyor forming the bottom of said body and adapted to discharge material from the forward end of said body, at least a portion of said side walls in the receiving compartment being angularly inclined upwardly and outwardly from the edges of the conveyor whereby the receiving compartment is of greater width than the discharge compartment, said angularly

inclined side wall portions having upstanding material guiding baffle formations extending into that portion of the receiving compartment above



the conveyor and effective to resist longitudinal movement of material therealong responsive to movement of the conveyor from the receiving to the discharge compartments.

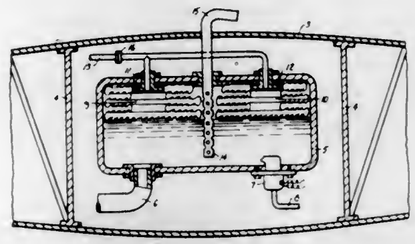
2,609,117
CLOSURE
Roy G. Miller, Bayside, N. Y., assignor to East Coast Aeronautics, Inc., New York, N. Y., a corporation of New York
Application June 18, 1947, Serial No. 755,441
5 Claims. (Cl. 220—40)



1. A two part closure comprising a neck portion and a cap portion, said neck portion comprising a first cylindrical wall, a bead extending inwardly from said first cylindrical wall, spaced apart arcuate sections of an inwardly projecting flange adjacent one end of said first cylindrical wall, spaced apart arcuate sections of a second cylindrical wall of less internal diameter than said first cylindrical wall extending from said flange sections, and cam surfaces on the free edges of said arcuate sections of said second cylindrical wall, and said cap portion comprising a circular disc, a third cylindrical wall extending from one face of said disc, a groove in the outer surface of said third cylindrical wall; a packing ring in said groove, fingers extending from said third cylindrical wall perpendicularly to said disc, outwardly projecting dogs at the free ends of said fingers and a spider flexibly supported parallel to but spaced apart from said face of said disc, said spider, packing ring and dogs respectively of said cap portion being adapted to engage said flange, bead and cam surfaces respectively of said neck portion.

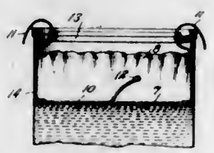
2,609,118
AIRCRAFT FUEL TANK
Alfred G. Cattaneo, Contra Costa County, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 29, 1949, Serial No. 73,478
5 Claims. (Cl. 220—85)

1. A tank for storing a variable quantity of liquid fuel vented to the atmosphere substantially without the presence of a vapor space above the liquid fuel comprising, in combination: a substantially rigid tank; partition means within said tank having at least one wall of flexible material dividing said rigid tank into a fuel compartment and a gas compartment sealed from the fuel compartment and closed to retain gas at a slight superatmospheric pressure, the said flexible material being mounted with slack so as to be movable to enlarge the volume of either of said compartments to occupy the major part of the space within said rigid tank while correspondingly decreasing the volume of the other of said compartments; liquid fuel supply and discharge means having communication with said fuel compartment at the bottom thereof; an open vapor



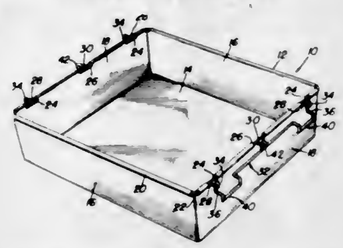
vent in communication with said fuel compartment and with the ambient atmosphere for discharging vapors therefrom to a point outside of the tank; and gas supply means in communication with the gas compartment for admitting gas from a source outside of the tank under a superatmospheric pressure insufficient to force liquid fuel through said open vent, whereby gas admitted into the gas compartment will move said wall to reduce the volume of the fuel compartment to correspond substantially to the volume of liquid stored therein.

2,609,119
COVER FOR PAINT IN OPENED PAINT CANS
Dorothy E. Shilstone, Lake Mahopac, N. Y.
Application December 10, 1949, Serial No. 132,233
1 Claim. (Cl. 220—93)



An easily applied, readily removable and reuseable plastic cover for preventing the formation of "skin" on the surface of paint in an opened paint can, comprising an inner disc of relatively light, thin, flat, flexible, plastic material impervious to paint, said disc being of slightly less diameter than the inside of a paint can it is to be used with and being flexible to fold freely to permit its entry in the mouth of the can and sufficiently resilient to flatten down into the desired position, an annular outer peripheral disc of light, thin, flexible, plastic material impervious to paint secured over the top of the disc and projecting outwardly therefrom, said inner disc being heavier, thicker and less flexible than said peripheral disc to automatically effect the desired conforming, self-sealing engagement and a flexible handle strip extending diametrically across the cover and secured to the top surface thereof and projecting beyond the free edge of said peripheral disc to provide a grip for removing the cover.

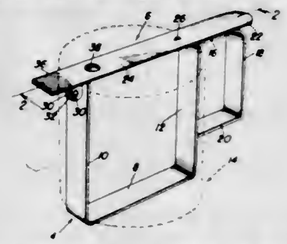
2,609,120
NESTABLE CONTAINER
Paul L. Williams, Carthage, N. Y., assignor of fifty per cent to Durkee Bakery of Carthage, Inc., Carthage, N. Y., a corporation of New York
Application February 20, 1950, Serial No. 145,145
1 Claim. (Cl. 220—97)



In a nestable container, the combination of a substantially rectangular receptacle including a bottom and upwardly and outwardly extending side walls having rolled upper edge portions to provide a perimetric bead, a reenforcing rod positioned in said bead, the bead on two opposing side walls being provided with recesses whereby at least two longitudinally spaced portions of said rod are exposed on each of the two opposing side walls, and a pair of keeper members provided on the respective opposing side walls and each consisting of an angulated wire provided at opposite ends thereof with eyes rotatably mounted on said spaced portions of said rod whereby said wires may be swung from an inoperative position outside said receptacle and spaced therefrom to an operative position inside the same, intermediate portions of said wires in an operative position affording substantially vertical shanks engageable with inner surfaces of the respective opposing side walls and substantially U-shaped inwardly projecting support elements whereby another like receptacle may be supported in a substantially spaced position above said bottom, said spaced exposed portions extending outwardly from said side walls and being angulated in a horizontal plane to afford outwardly offset hinge members to rotatably receive said eyes, and said support elements having short shanks comprising intermediate portions of the elements, said shanks extending substantially normal to portions of the elements at either end of the shanks and engaging inner surface portions of said side walls when in operative positions, said shanks being offset from said eyes a distance substantially equal to the outward extension of the exposed spaced portions, all portions of said elements being spaced from said side walls when in inoperative position so that the elements are not ordinarily fouled by expanding food products during the baking of the same in said container.

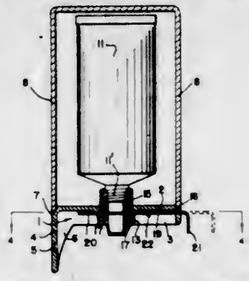
2,609,121
PUNCTURING DISPENSER FOR CANNED LIQUIDS
Harry M. Evans, Graham Township, Clearfield County, Pa.
Application July 14, 1950, Serial No. 173,823
1 Claim. (Cl. 222—83.5)

A can attachment of the class described comprising a length of flat strap metal bent intermediate its ends to provide a U-shaped stirrup, said stirrup being adapted to receive and substantially embrace a milk can or the like, said stirrup embodying a bight portion and a pair of spaced parallel limb portions, the one end of one limb portion being bent laterally in a direction away from said limb portion, being bent laterally into spaced parallelism with said limb portion and finally being bent laterally in toward and engaging said one limb portion and said several bends cooperating in providing a hand-grip, the other end of the other limb portion being provided with an outstanding lug, a flat lever spanning the open end portion of said stirrup and having one end portion provided with ears strad-



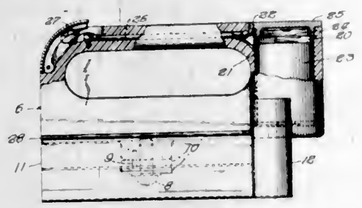
dling and hingeuly connected to said lug, said one end portion having a pouring hole and a complemental aligned pouring spout, said one end portion projecting beyond said other limb portion and ears and providing a pouring lip for coaction with said pouring hole and spout, the opposite end of said lever resting directly on the first-named lateral bend of said hand grip and being provided with a struck out tongue providing a can puncturing prong.

2,609,122
DENTIFRICE CABINET
Patrick J. Stenerson, Fernwood, Idaho
Application May 16, 1950, Serial No. 162,337
3 Claims. (Cl. 222—105)



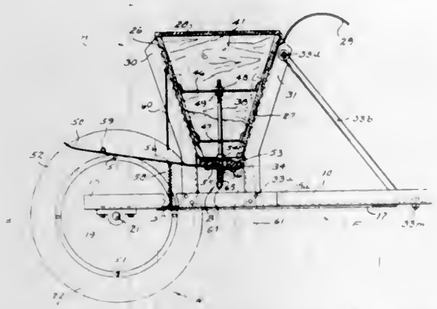
1. A dentifrice cabinet comprising a base constituting a shelf and formed with a downwardly extending boss having a threaded bore open at upper and lower ends, a depending flange along a front edge of the shelf formed with an opening opposite the front portion of said boss, the boss being formed with transversely positioned opposed front and rear openings aligned with the opening in said flange, a hollow adaptor screwed into the bore of said boss and open at upper and lower ends and formed in front and rear portions with openings registering with the openings in the boss, said adaptor adapted to support a container in an inverted vertical position, and a flat strip transversely slidable through the aligned openings of the flange and the boss and the adaptor and formed with an opening, the outer end of said strip being bent downwardly and forming a handle for sliding the strip transversely from a closed position in blocking relation to the hollow adaptor to an opened position in which its opening registers with the adaptor for allowing flow of material downwardly through and out of the adaptor.

2,609,123
SEED PLANTER WITH ELECTRICALLY VIBRATED FEED TROUGH
Arthur F. Goldsby and Fred L. Goldsby, Chicago, Ill.; said Arthur F. Goldsby assignor to said Fred L. Goldsby
Application September 6, 1946, Serial No. 695,156
5 Claims. (Cl. 222—161)



1. A seed planter comprising: a handle; a horizontal rigid plate connected to the handle; a feed trough on the plate and spaced from the connection between the handle and the plate; and self contained means for rapidly vibrating the plate to cause seed in the feed trough to move therefrom.

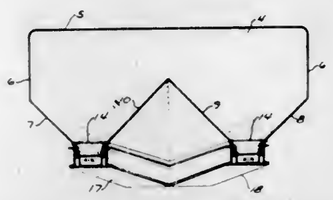
2,609,124
FERTILIZER SPREADER
Leonard A. Bergstrom, Racine, Wis.
Application May 18, 1949, Serial No. 94,005
4 Claims. (Cl. 222—177)



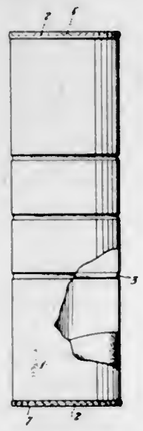
1. In a spreader having a frame and transport wheels, a hopper supported on said frame and having an open bottom, a plurality of independent mutually abutting panels aggregatively coextensive with said open bottom and the horizontal edges thereof, and adjustable toward or away therefrom, pivot means adapted to support said panels for rocking relation with said bottom, a plurality of actuating means extending laterally from said support wheels, and an actuating arm extending from each of said panels into position to co-act with said actuating means to effect an alternate clockwise and counterclockwise partial rotation of said panels about said shaft upon rotation of said transport wheels.

2,609,125
SELF-UNLOADING BIN
Henry Ripley Schemm, Detroit, Mich., assignor to Huron Portland Cement Company, Detroit, Mich., a corporation of Michigan
Application September 25, 1948, Serial No. 51,224
13 Claims. (Cl. 222—195)

1. A bin adapted to receive pulverulent material and having a discharge outlet in a wall thereof, a trough in the floor of the bin and below the level of the material-supporting portions thereof, said trough extending from adjacent the discharge outlet to a point adjacent a side wall of the bin, an aerator for supplying a gaseous medium to the pulverulent material independently if and removably mounted in said trough, said aerator comprising an elongated channel, walls closing the ends of the channel, and a porous wall closing the top of the channel and inclined downwardly toward the discharge outlet, said channel having an inlet through which a gas under pressure can be introduced into the channel for passage upwardly through the porous wall, said porous wall being adapted to form a support for pulverulent material to be aerated by gas passing upwardly through the porous wall and a way along and upon which aerated pulverulent material may flow toward said discharge outlet.

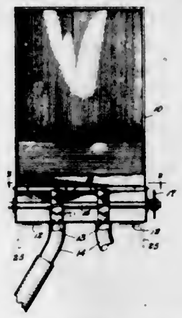


2,609,126
POWDER DISTRIBUTING DRUM
James Buchan, Glasgow, Scotland, assignor of two-thirds to John Alan King, Glasgow, Scotland, and John Laird & Son, Limited, Glasgow, Scotland, a company of Great Britain and Northern Ireland
Application August 17, 1948, Serial No. 44,648
In Great Britain December 17, 1947
2 Claims. (Cl. 222—215)



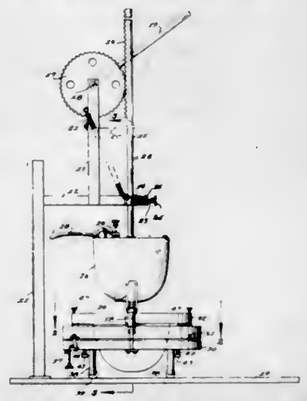
1. A powder distributor comprising a tubular body and circular ends, the body having a portion intermediate said ends which is deformable to induce discharge of the distributor's contents, and a plurality of circumferential indentations spaced apart from each other on said body and defining a cylindrical portion of the body, between such indentations, which is at least partly coincident with the said deformable portion.

2,609,127
FERTILIZER DISTRIBUTOR
George W. Wood, Stephenville, Tex.
Application August 12, 1947, Serial No. 768,108
5 Claims. (Cl. 222—274)



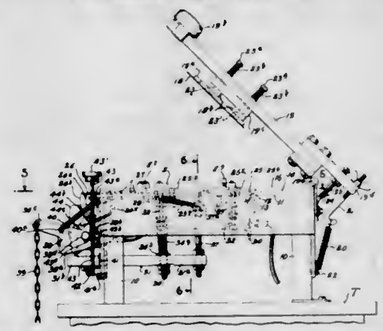
1. A material distributor comprising a hopper, a rotary agitator member mounted on an axis extending lengthwise through the hopper, said hopper having a bottom provided with an outlet slot located beneath the agitator and extending transversely of the axis thereof, said agitator including a plurality of flat rectangular blades each extending radially from the axis and terminating short of the slot when in the downwardly extending position, the flat surfaces of each blade lying in parallel planes extending longitudinally of the axis of the agitator, and each blade having an extension of reduced width as compared with the width of the coresponding blade adapted to project into the slot as the agitator is rotated, to prevent clogging of the slot, the width of the blades being greater than the width of the transverse slot, and the width of the extension being less than the width of the slot.

2,609,128
HAT SHAPING APPARATUS
Constantine H. Marris, Springfield, N. J.
Application April 28, 1950, Serial No. 158,704
4 Claims. (Cl. 223—12)



1. Hat shaping apparatus comprising a base, a form ring movably supported on said base and having a hat crown receiving opening therein and a brim shaping surface surrounding such opening, a heating element in said form ring, a guide ring surrounding said form ring and movably connected to the latter for movement toward and away from said base, said guide ring being movable to a position in which it projects beyond said brim shaping surface to constitute a guide for the edge of the brim of a hat being shaped on the apparatus, a clamping ring disposable within said guide ring to clamp a hat brim on said brim shaping surface, releasable clamps carried by said form ring and engageable with said clamp ring to clamp a hat brim between said clamp ring and said form ring, a standard secured at one end to said base, an arm projecting laterally from said standard, a rack slidably mounted on said arm at a location spaced from said standard, a crown block secured on the base adjacent end of said rack and receivable in the crown receiving opening in said form ring when the latter is supported on said base directly below said crown block, a heating element in said crown block, and manually operated means carried by said arm and engaging said rack to move said crown block into and out of the crown receiving opening in said form ring.

2,609,129
FABRIC EDGE-FOLDING AND PRESSING MACHINE
David Goldberg, New York, N. Y., assignor to Schreiber & Goldberg, New York, N. Y., a copartnership
Application October 29, 1949, Serial No. 124,299
9 Claims. (Cl. 223—38)

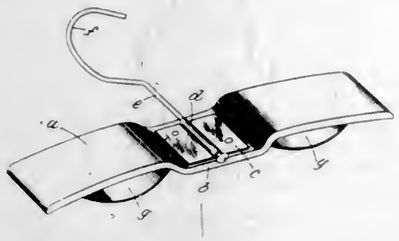


1. A fabric edge-folding and pressing machine comprising a supporting frame member having a receiving opening for a work-blank, a work-clamping member movable into said receiving opening to engage a work-blank mounted therein, edge-folding plates slidably mounted in said supporting frame member and operable to fold the edges of said work-blank and to engage over the edges of said work-clamping member, a pusher member slidably mounted to engage at one edge with said edge-folding plates within said supporting frame member, a pressing and ironing plate mounted in said supporting frame member and movable into engagement with a work-blank mounted in said opening, a control lever movable to move the pressing and ironing plate into pressing position, operating means for successively moving said pusher-plate and said control lever into operative positions, and releasable engaging means for retaining said pusher-plate and control lever in their operative positions.

2,609,130
SKIRT HANGER
William Albert Burnell, Kenton, England
Application November 12, 1948, Serial No. 59,730
In Great Britain October 1, 1948
3 Claims. (Cl. 223—95)

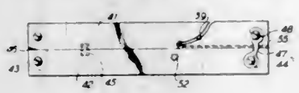
1. A skirt hanger for firmly hanging a woman's skirt and displaying said skirt, comprising a

rigid bowed, horizontally-extended, flat bar shorter than the width of the top of the skirt having a centrally offset recess on the convex side of the bar, a suspension hook extending above and below said bar having a straight vertical shank extending vertically across the offset recess of said bar, a mounting plate having a vertical channel to receive said shank fitted in



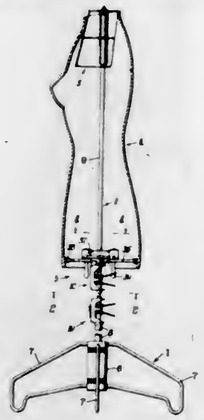
said recess, a double-bowed leaf spring mounted on the concave side of the bar including a central flat mounting portion and first outwardly and then inwardly curved bowed portions having outwardly inclined end portions formed of a continuous strip of spring steel, the ends of said spring pressing tightly against the concave side of said bar adjacent the ends thereof.

2,609,131
NEEDLE THREADER
Mario T. David, Los Angeles, Calif.
Application February 16, 1949, Serial No. 76,788
2 Claims. (Cl. 223—99)



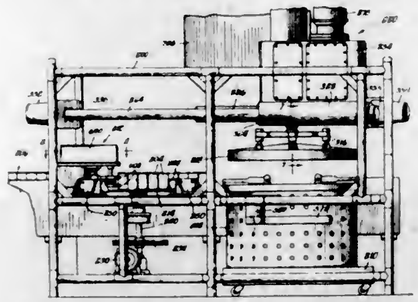
1. In a threading device for needles, in combination, a first body member, a second body member hinged to said first body member at one end thereof, said body members having substantially flat opposed surfaces which are moved into engagement with respect to each other during the threading operation, said first body member having a substantially cylindrically shaped recess therein extending longitudinally thereof from the end opposite the hinged end, said recess being of a diameter to receive the needle being threaded, the needle being freely rotatable in said recess, a resilient wire mounted on said second body member with one end extending upwardly from its flat surface and terminating in a hook, said first body member having an opening therein intersecting the inner end of said recess and also having a slot therein the inner end of which intersects the upper end of said opening, said opening being aligned with said hook so that said hook passes upwardly through said opening into the lower end of said slot when said members are moved together, means to guide said body members when they are moved together so that said hook always follows the same path when it is moved upwardly through the opening in the first body member, said guide means comprising a lug formed on one of said members in the vicinity of its free end, the other of said body members having a complementary slot to receive said lug, and spring means disposed between the body members resiliently urging said members apart.

2,609,132
STAND FOR DRESS-FORMS AND THE LIKE
Ralph F. Palmer, Montclair, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 12, 1951, Serial No. 231,193
7 Claims. (Cl. 223—120)



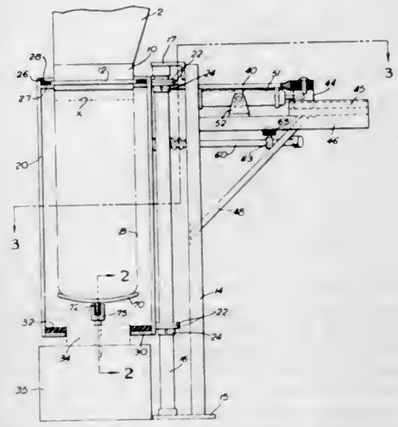
7. In combination with a stand for dress-forms or the like having a base, a vertically disposed standard rising from the base, a dress-form supporting neck-frame supported on the upper end of the standard, and a cross-head adjustably secured on the standard and adapted to carry cross-arms engageable with the inner surface of the dress-form to secure it against lateral movement relative to said standard, said cross-head comprising a hub having reduced ends surrounding the standard, a clamp having a standard-receiving aperture adapted to be secured to the standard in vertically adjusted position, a body member formed from a single piece of sheet metal and having a base portion centrally apertured to slidably receive the standard, one of said reduced ends of the hub projecting through the aperture in the clamp and the other projecting through the aperture in the base portion, said reduced ends being upset to secure the parts together.

2,609,133
MAGNETIC GRAPPLE CAN LOADING MACHINE
Leander Jackson Bulliet, Rockford, Ill., assignor to Odin Corporation, Chicago, Ill., a corporation of Illinois
Application June 27, 1945, Serial No. 601,899
12 Claims. (Cl. 226—15)



1. A machine for handling metal articles at and between loading and unloading stations and comprising an article translating member, magnetic means connected with the translating member for causing the articles to adhere thereto, means for translating said translating member between said stations along a predetermined path of travel to effect the translation of the articles therebetween, circuit control means for the magnetic means and translating member, means disposed at one of said stations for receiving and positioning a removable receptacle, means for interchanging the articles between the translating member and receptacle at said last named station, and means comprising a sensing device and a switch in circuit with said circuit control means actuated by the improper positioning of the receptacle for inhibiting operation of the translating means and controlling the manner of operation of the magnetic means.

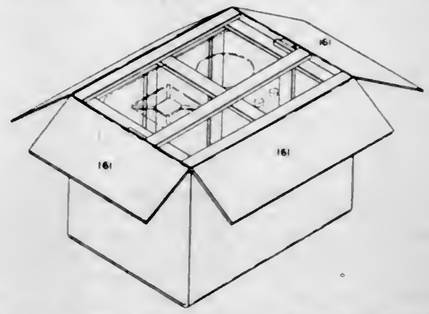
2,609,134
MACHINE FOR BAGGING CEREALS OR GRAIN
Eugene Korber, Wallaceburg, Ontario, Canada, assignor to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
Application January 21, 1949, Serial No. 71,881
5 Claims. (Cl. 226—58)



1. A machine for filling bags with grain or the like comprising a chute for delivering a charge of grain, means to suspend a bag from the chute with the mouth of the bag surrounding the delivery end of the chute, an expansible casing, sealing means around the upper edge of the casing to grip the mouth of the bag when the casing is contracted about the delivery end of the chute, means to close the casing around the bag while it is suspended from the chute, said casing when closed forming a chamber about the bag, and means to evacuate air from the interior of the chamber while the bag is receiving the charge of grain.

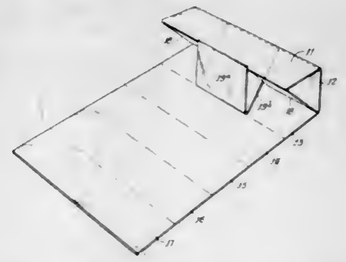
2,609,135
CONTAINER
Dennis I. McKenzie, Dayton, Ohio, assignor to Moraine Box Company, Dayton, Ohio, a corporation of Michigan
Application February 17, 1948, Serial No. 8,790
7 Claims. (Cl. 229—14)

1. A skeleton frame structure for placement in a container to support the walls thereof and consisting of, a bottom platform, a top platform and a pair of side walls extending between said platforms unsecured relative to each other, said top and bottom platforms each consisting of a pair of rails extending longitudinally of the structure and forming a corner edge of the same and a pair of rails extending transversely between said longitudinal rails at opposite ends thereof and secured thereto, said transverse rails having their ends inset from the longitudinal edges of said longitudinal rails, said side walls extending between said top and bottom platforms with their longitudinal edges positioned in the recess provided by the inset ends of said



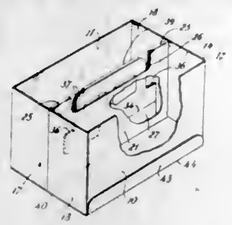
transverse rails, and an unattached removable cleat T shaped at each end extending between said platforms at each end thereof with the T shaped ends projecting over each of said platforms to hold the same in their relative positions and having its outermost extremities contained within the skeleton frame structure as defined by planes across the outer surfaces of said top and bottom platforms and the ends of said longitudinally extending rails thereon.

2,609,136
PACKING ELEMENT
Nicholas M. Sider, Fort Wayne, Ind., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application September 19, 1947, Serial No. 774,928
4 Claims. (Cl. 229—14)



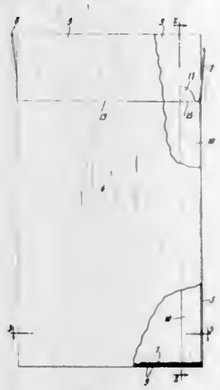
1. A packing element of paper board comprising a substantially vertical panel, an upper substantially horizontal panel hinged at one side edge to the upper edge of said vertical panel, a lower substantially horizontal panel hinged at one side edge to the lower edge of said vertical panel, and a plurality of tongues hinged to the other side edge of said upper panel, one of said tongues comprising a connecting portion extending from said upper panel to the other side edge of said lower panel and a terminal portion extending from the lower edge of said connecting portion to said one edge of the said upper panel, the other of said tongues extending from said other side edge of said upper panel to said one side edge of said lower panel and crossing said terminal portion of said one tongue.

2,609,137
CARTON
Patrick A. Toensmeier, Catonsville, Md., assignor to The Bartgis Brothers Company, Ilchester, Md., a corporation of Maryland
Application November 13, 1950, Serial No. 195,155
5 Claims. (Cl. 229—15)



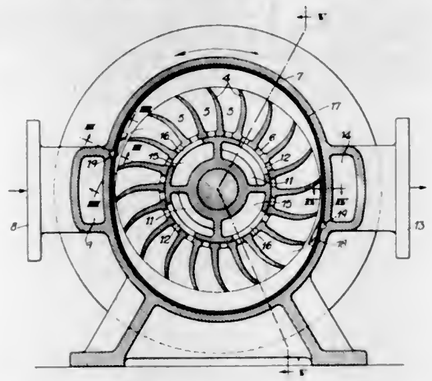
1. A carrier, which comprises a pair of like side walls, an end wall attached to each side wall at each end thereof, a bottom wall connected to the side walls at their lower ends, a partition extending lengthwise within the carrier and connected to the end walls at opposite ends thereof, the partition including a pair of plies and a handle member lying between and secured to the inner faces of the plies below the lower edge of a central area of the plies extending downward from the upper ends of the plies, the plies having registering cut-outs extending downward from the upper ends thereof and lying within said area, the plies also having portions of their upper edges connected together at opposite sides of the cut-outs, and a handle detachably secured to the handle member lying between and free of said plies of the partition within said central area thereof, the handle having a neck of less width than the registering cut-outs and in line therewith and ears at its sides lying beneath the connected upper edges of the plies and engageable therewith upon detachment and raising of the handle.

2,609,138
CARTON AND CARTON BLANK
Arthur J. Weiss, West Englewood, N. J., assignor to Robert Gair Company, Inc., New York, N. Y., a corporation of Delaware
Application December 26, 1946, Serial No. 718,509
2 Claims. (Cl. 229—16)



1. A carton comprising four side panels forming in cross section an elongated rectangle, an end flap adjoining each of the side panels and of a width substantially coextensive with its respective side panel, the two narrower end flaps being foldable inwardly to form inner end flaps and the remaining two end flaps being foldable inwardly outside of the folded inner end flaps to form outer end flaps, a glue lap extending from one of the narrower side panels, said glue lap extending beyond the end of its adjoining panel to form an extension of predetermined shape, said glue lap and extension being adhesively secured to the inner edge of a wider side panel and its adjoining end flap respectively, and the side of said inner end flap of said last-named narrower side panel having a recess receiving said extension when the end flaps are closed during the operation of sealing the carton.

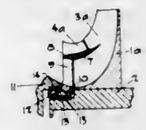
2,609,139
FLUID FRICTION REDUCER
Paul Kollsman, New York, N. Y.
Application June 27, 1945, Serial No. 601,905
3 Claims. (Cl. 230—79)



1. In a device of the class described, a casing having a continuous curved inner peripheral surface; a fluid in said casing; means for causing relative rotative movement between said casing and fluid; and means for reducing the frictional loss sustained by said fluid at said surface, said means comprising a continuous imperforate endless band of uniform cross section disposed within said casing in said fluid closely adjacent to said surface, said band having an outer circumference smaller than the inner peripheral length of said surface, the band thus being adapted to float in said fluid out of mechanical contact with said surface, said band being spaced from rotating mechanical parts and having freedom to rotate with respect to said casing by fluid friction drag exerted upon it by said fluid; and means in said casing for equalizing the fluid pressure on opposite surfaces of said band, whereby the band is relieved from fluid pressure acting on its interior surface.

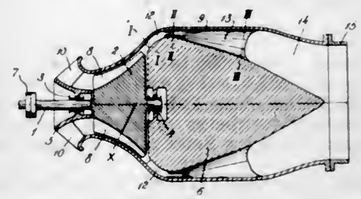
2,609,140
RADIAL COMPRESSOR WITH AUXILIARY BLADEWHEEL
Frits Jonker, Delft, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 17, 1948, Serial No. 27,496
In the Netherlands May 23, 1947
4 Claims. (Cl. 230—119)

1. A radial compressor comprising a main rotor having radially extending blades, a gas inlet disposed concentric to the axis of rotation of said main rotor, an auxiliary bladed wheel arranged in said gas inlet and near said main rotor having impeller blades only at the circumferentially outer portion of the inlet to the main rotor, the blades of said auxiliary bladed wheel and of said main rotor being shaped to charge gas from the auxiliary wheel into the blades of the main rotor



substantially without shock, said auxiliary bladed wheel having openings disposed radially inwardly from said outer portion permitting the flow of gas therethrough into said main rotor, and means for rotating said auxiliary bladed wheel in the same direction as and at a lower angular velocity than said main rotor.

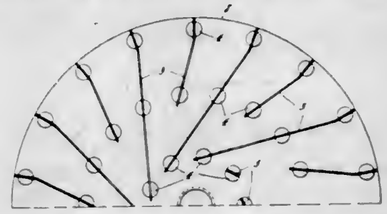
2,609,141
CENTRIFUGAL COMPRESSOR
Georg Aue, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland
Application October 2, 1945, Serial No. 619,774
In Switzerland October 2, 1944
5 Claims. (Cl. 230—119)



1. A centrifugal compressor assembly for producing a high stage pressure ratio, including in combination an approximately conical rotor arranged to discharge at its bigger end, a plurality of stationary diffusors arranged around the rotor axis with their inlet ends toward the rotor discharge end but axially displaced therefrom, said diffusors having circular cross-sections and generally straight axes the directions of these axes deviating by less than 20° from the direction of the rotor axis, and a stationary intermediate portion between the rotor discharge end and the diffusor inlet ends provided with directing channels, matching, as to cross-section and direction, at the one end with the diffusor inlet ends and having curved axes and along these curved axes cross-sections of substantially constant area but continually variable shape, to match, as to cross-section and direction, at the other end with the discharge from said rotor.

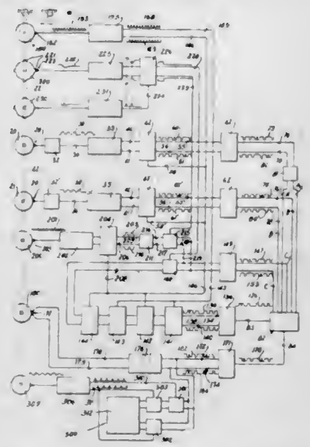
2,609,142
TURBINE WHEEL
Paul Wirz, Berne, Switzerland
Application April 17, 1946, Serial No. 662,695
In Switzerland August 10, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires August 10, 1964
1 Claim. (Cl. 230—134)

A turbine wheel for medium and high pressure centrifugal ventilators, having comparatively thin sheet metal blades and comparatively thin sheet metal side plates, comprising a plurality of angularly spaced blisters of substantially spherically curved shape in said side plates, slits in said blisters diametrically disposed to accommodate the edges of respective blades, for engaging each of said blades there are provided at least three of said blisters, and each blade forming a knee which extends transversally from one side plate to the other and is positioned out of the reach of any of said blisters but with respect to the side plate circumference at least internally from the outermost blister engaging said blade, whereby



said blades are in contiguity with the sides of said slits and wherein said blisters face inwardly of said wheel towards said blades with a portion of the opposed edges of said blades protruding through the convex sides and into the concave sides of respective blisters, said portions being upset and thickened to a degree greater than the original slit width, the portion of said blade edges in contiguity with the sides of the respective slits being thus strongly gripped therein.

2,609,143
ELECTRONIC COMPUTER FOR ADDITION AND SUBTRACTION
George R. Stibitz, Burlington, Vt.
Application June 24, 1948, Serial No. 34,968
43 Claims. (Cl. 235—61)



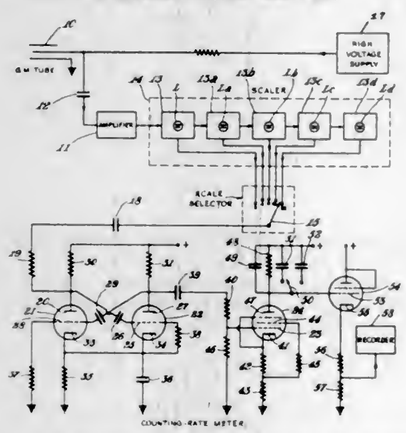
1. In a digital computer for summing a pair of numbers the combination comprising first and second magnetic storage devices each having means including a member movable relatively thereto for reading stored numbers and converting them into respective trains of successive voltage impulses, a digit adding circuit having its input connected for response to said trains of voltage impulses and having in addition write and carry output leads, means including a magnetic recording device having a member movable relatively thereto for storing a number representative of the sum of said pair of numbers in accordance with voltage impulses produced at

said write output lead, a carry delay circuit responsive to the voltages at said carry output lead for feeding into the input of said digit adding circuit a train of delayed voltage impulses representative of a succession of digits respectively carried from one order to the next higher order, means including a magnetic synchronizing device having a member movable relative thereto for unlocking said carry delay circuit, all of said relatively movable members being coupled for movement in unison so that each order of the sum is synchronously recorded immediately after the summation of the digits of corresponding order.

2,609,144
SYSTEM FOR RECORDING X-RAY DIFFRACTION DATA

Edward A. Hamacher, Irvington on Hudson, N. Y., assignor to Philips Laboratories, Inc., Irvington on Hudson, N. Y.

Application September 28, 1949, Serial No. 118,367
5 Claims. (Cl. 235—61)



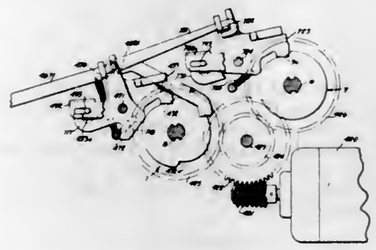
1. In a system for indicating X-ray diffraction data, the combination comprising a scaler for counting input pulses and constituted by a plurality of scaling stages provided with indicating means and connected in cascade relation, means to apply input pulses to the first of said scaling stages, pulse integrating means to develop an electrical quantity proportional to an applied pulse rate, means to selectively couple each of said scaling stages to said integrating means, and an indicating device coupled to said integrating means and responsive to said electrical quantity, said device having a predetermined full scale sensitivity, the pulse rate corresponding to a full scale reading of said device being equal to the full scale sensitivity thereof in counts per second multiplied by the scaling ratio corresponding to the setting of said selective means.

2,609,145
CLUTCH CONTROL MECHANISM

Robert E. Boyden, Los Angeles, and Edward P. Drake, Glendale, Calif., assignors to Clary Multiplier Corporation, Los Angeles, Calif., a corporation of California

Original application November 19, 1946, Serial No. 710,880. Divided and this application March 28, 1949, Serial No. 83,904
12 Claims. (Cl. 235—62)

1. In a calculating machine having calculating mechanism including a plurality of independently operable devices, and drive means therefor; the combination of a first cyclic clutch between said drive means and one of said devices, said clutch being operable through two successive phases, means for arresting said clutch at the completion of each of said phases, means for initiating operation of said clutch, a second cyclic clutch between said drive means and another of said devices, means operable by said first clutch during

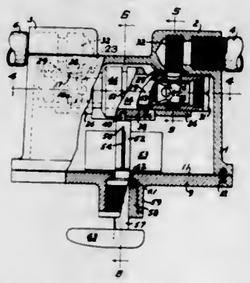


a first one of said phases thereof for causing initiation of operation of said second clutch, means operable by said second clutch for initiating operation of said first clutch through the second phase thereof, and selectively settable means for disabling said initiating means for said second clutch and for rendering said arresting means ineffective to arrest said first clutch at the completion of the first of said phases.

2,609,146
MIXING VALVE

Norman L. Heikes, San Pablo, Calif., assignor to W. Kenneth Rosenberry, Oakland, Calif., doing business as Berkeley Scientific Company, Richmond, Calif.

Application November 28, 1947, Serial No. 788,343
3 Claims. (Cl. 236—12)

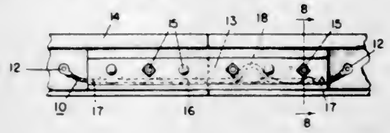


1. A device for mixing and delivering liquids under controlled conditions of temperature and pressure comprising, a housing provided with spaced inlets for supplying liquids from different sources of supply and an outlet for the mixed liquids, a cylinder mounted within the housing, said cylinder being provided with spaced inlets communicating with the housing inlets and spaced outlets opening into the housing, a piston within the cylinder movable in response to variations in pressures of the liquid supply to cover and uncover the inlets to varying degrees for equalizing the pressures of the liquids within the cylinder, a sleeve mounted upon the cylinder and movable thereon to open and close the outlets to varying degrees, and temperature responsive means for actuating the sleeve to maintain a predetermined mean temperature of the mixed liquids within the mixing chamber.

2,609,147
ARMORED RAIL BOND

Harold H. Febrey, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application March 26, 1948, Serial No. 17,312
2 Claims. (Cl. 238—14.7)

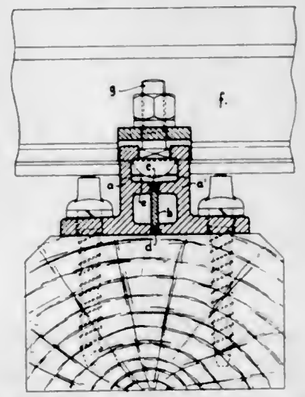


1. In combination, a railroad rail and splice bar assembly comprising a rail joint, a rail bond comprising a flexible cable element longer than the splice bar extending between the latter and the rail and projecting beyond the ends of the splice bar with terminal portions attached to the rail, and a helically-preformed armor rod having a pitch length several times greater than the diameter of said cable element encircling the latter at least around its portions enclosed between the splice bar and the rail, said helically-preformed armor rod having a preformed helix of gradually diminishing pitch length adjacent to the terminal portions of said cable to confine and hold the latter.

2,609,148
RAIL CHAIR

Theodorus W. Mundt, Bilthoven, Netherlands

Application July 30, 1946, Serial No. 687,179
In Great Britain September 25, 1945
4 Claims. (Cl. 238—287)

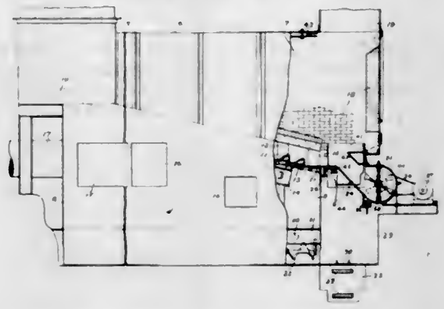


2. A steel chair for flat bottom rails comprising a flat bottom face, and a rail bottom supporting face extending in substantially parallel relation to each other, two complementary inverted T-bars of substantially equal cross section and each comprising an upstanding web with a flange at substantially right angles thereto and extending on either side thereof, said bars having their rolling direction at right angles to the longitudinal axis of the rails and being disposed side by side with the bottom faces of their flanges flush and united by welding at the inner edges of said flanges, the web of each bar further being provided on its inner face with a first ridge extending along the top edge of the web inwardly a predetermined distance which is substantially smaller than the flange of the bar, a ridge intermediate said first ridge and said flange and extending inwardly the same distance as said flange, the intermediate ridges of the bars being united by welding along their inner edges to form said rail bottom supporting face, said webs being recessed to allow a rail to be seated on said supporting face.

2,609,149
CLINKER COOLING

Ejnar Posselt, Pelham Manor, N. Y., assignor to Lone Star Cement Corporation, New York, N. Y., a corporation of Maine

Application May 10, 1949, Serial No. 92,483
13 Claims. (Cl. 241—5)

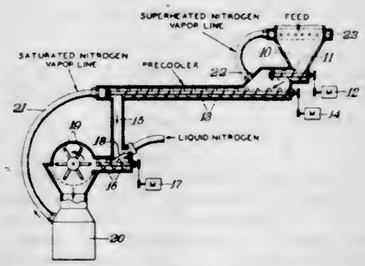


1. A clinker separator and breaker which comprises a separating zone having a separator including spaced grizzly bars for receiving partially cooled material of mixed particle size and for separating and discharging the sufficiently cooled fine sizes, means for receiving from the separator and for supporting the larger hot particles, means for impacting separated larger particles with a force sufficient to break them into smaller pieces, said impacting means being constructed and arranged to return by the force of the impact at least a part of the broken pieces through the separating zone back to a point in advance of the separator, and a series of spaced arms fulcrumed on a supporting shaft below the grizzly bars and movable upwardly between the grizzly bars to dislodge clinker wedged between them.

2,609,150
MECHANICAL PULVERIZATION OF REFRIGERATED PLASTICS

Robert E. Bludeau, Denville, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

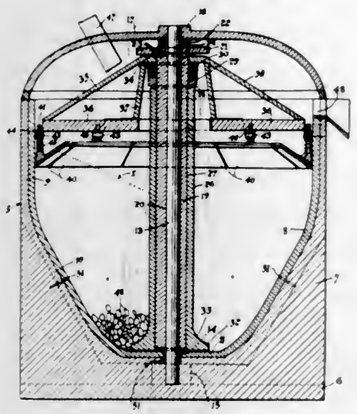
Application November 5, 1949, Serial No. 125,739
10 Claims. (Cl. 241—15)



2. A process of chilling and pulverizing by impact a tough thermoplastic resin having a high impact strength of between 2 and 11.5 foot pounds per inch of notch ½ inch x ½ inch notched bar Izod test, said process comprising contacting

pieces of the material with a refrigerant which is a liquefied gas having a temperature adjacent that of liquid nitrogen, which has been vaporized and is at slightly superatmospheric pressure while feeding the same to an impact mill, spraying said refrigerant in liquid phase onto said material closely adjacent said mill and after it has been cooled by said vaporized refrigerant to chill at least outer portions of said material to well below its brittle point, subjecting the material to impacts in said mill, separating particles below a predetermined size from those above said size, and precooling the material fed to said mill by said contact with vaporized refrigerant from said mill.

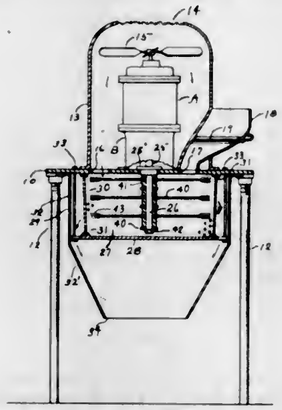
2,609,151
PULVERIZING AND CLASSIFYING MACHINE
Paul D'Aragon, Val d'Or, Quebec, Canada
Application June 18, 1949, Serial No. 99,957
12 Claims. (Cl. 241—41)



2. A pulverizing and classifying machine comprising a vertical receptacle having a bottom wall and a peripheral wall extending upwardly from said bottom wall, said receptacle being provided with an inlet to which the material to be pulverized is delivered and with a peripheral outlet for discharge of pulverized material located at the top of said receptacle, a vertically extending tubular crushing member centrally arranged in said receptacle and extending from the bottom to the top of the receptacle, actuating means rotatably supporting the tubular member thereon and operable to cause said member to travel in an arcuate path about a vertical axis offset from the central vertical axis of said member, the latter being freely rotatable relatively to said actuating means and about its own vertical axis and a plurality of loose crushing elements in said receptacle and movable in response to movement of said tubular crushing member by said actuating means to transmit crushing pressure to the crushable material contained in said receptacle.

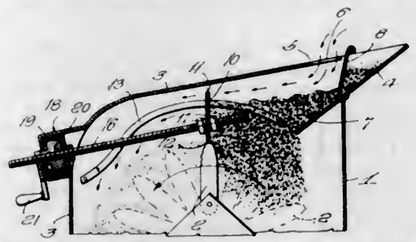
2,609,152
VERTICALLY ARRANGED HAMMER MILL
James Brough, Pickering, Ontario, Canada, assignor to Massey-Harris Co. Ltd., Toronto, Ontario, Canada, a corporation of Canada
Application June 17, 1950, Serial No. 168,701
1 Claim. (Cl. 241—51)

A hammer mill of the character described comprising in combination, a horizontally arranged frame plate, a vertically arranged motor concentrically mounted on the upper side of said frame plate, fan blades mounted on the upper end of the shaft of said motor and adapted to move air downwardly, the lower end of the shaft of said motor protruding for a distance through said frame plate, a generally circular in cross section housing for said motor and concentric therewith and mounted on the top of said frame plate and forming an air passageway around the motor, a number of ports in said frame plate and circumferentially spaced between the mounting of said motor and housing, one of said ports adapted to act as a feed passageway port and the others being adapted to act as air outlets from said housing, said housing being extended inwardly to partially surround said feed passageway port, a feed inlet member adapted to cooperate with



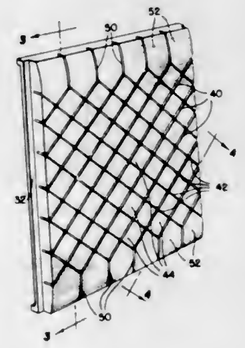
said housing inwardly extending portion to form a feed hopper, a circular plate having a diameter substantially equal the diameter of said housing and being secured a distance below said frame plate by means of a number of spaced bolts, a circular screen detachably mounted between said frame plate and circular plate having a diameter substantially the general diameter of said housing cooperating with said frame and circular plate to form a hammer chamber, a number of vertically spaced hammer arms mounted on said protruding end of the motor shaft, a circular outlet duct having a diameter somewhat larger than said circular plate and extending downwardly from the frame plate past the circular plate forming an outlet for the ground feed.

2,609,153
FEED CONTROL FOR HAMMER MILLS
Thomas Munsey Moore, deceased, late of Salem, Va., by The Bank of Salem, administrator, Salem, Va., assignor to Moore Milling Company, Inc., Salem, Va., a corporation of Virginia
Application October 13, 1948, Serial No. 54,272
5 Claims. (Cl. 241—186)



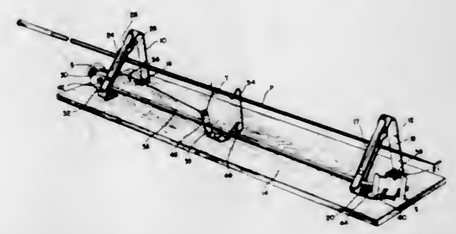
1. A feed control for hammer mills including rotating hammers, a material feed inlet at the top of the mill to flow material to be ground into the upper arc of the throw of the hammers at one side thereof, a pre-set baffle plate extending across the mill top adjacent the inlet in line with the throw of material by the hammers, said baffle plate being positioned substantially radially with respect to the axis of the hammers and spaced above the arc of the hammer throw and below the top of the mill, curved supporting tracks for said baffle plate secured to opposite sides of the mill, said tracks being substantially parallel to the arc of throw of the hammers, means to move said baffle plate along said tracks including a screw having one end rigidly connected with said plate and extending through the wall of the mill, a nut for said screw universally mounted in the wall of the mill, and a crank for rotating said nut exterior of the mill.

2,609,154
MEANS FOR REDUCING BULGING OF CRUSHER JAW FACE-PLATES
Rhea V. Baker, Seattle, Wash.
Application April 7, 1949, Serial No. 85,982
3 Claims. (Cl. 241—291)



1. A face-plate for jaw crushers for crushing rocks and ore, comprising: a rigid, rectangular, plate-like body of manganese-steel having a flat forward crushing face to be mounted upright in a crushing mechanism with its back against a flat supporting surface on which it bears during crushing, said body having formed in the crushing face a first and a second series of parallel grooves having substantially parallel walls and extending obliquely of the direction of travel of crushable material past said face, the grooves being small in comparison to the areas between the grooves and said areas between the grooves lying substantially in a common plane, the grooves of the first series intersecting with the grooves of the second series at abrupt angles and dividing said crushing face into a network of grooves and diamond-shaped crushing pads isolated from each other by said grooves, which pads serve to prevent lateral shift of material being crushed and tend to urge crushable material downward in such crushing mechanism while resisting the tendency of the same to belch, and said grooves permitting the movement of surface metal of said pads under crushing blows to avoid the accumulation of bulging stresses in said face-plate, said grooves having substantial width in relation to the size of rock and ore to be crushed whereby when surface metal moves laterally of the face-plate and forms overhanging lips at the edge of said grooves, the lips are broken before they bridge the grooves.

2,609,155
FISHING ROD WRAPPING DEVICE
Benjamin S. Fosnaugh, Renton, Wash., assignor of one-half to Adolph Spreckles, Seattle, Wash.
Application June 15, 1950, Serial No. 168,233
4 Claims. (Cl. 242—7)

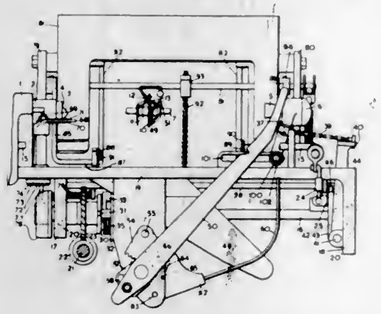


1. A fishing rod wrapping device, comprising: a flat elongated base member; two support members spaced apart one from another longitudinally of said base member, each support member being formed from a strip of metal having a rest portion, a leg portion angularly disposed in relation to the rest portion, and having inturned ends, said inturned ends being secured to said base member with the rest portion extending transversely of the base member and at an acute angle to the surface of the base member, there being a plurality of rests in said rest portion; a guide rod having end portions sharply bent, said rod being mounted in the lowest rest of each support member; a resilient clamp member pivotally mounted on the upper surface of each rest portion to clamp objects in said rests; a thread guiding member slidably mounted on said guide rod, said guiding member being formed of a strip of resilient metal and having two upwardly extending arms, each arm having an upper thread guiding opening and a lower opening, the guide rod passing through the lower openings and the lower openings being of a size permitting free sliding of the guiding member when the arms are substantially normal to the rod but clamping the rod when the arms are not substantially normal to the rod; a guide member positioned on said base member for guiding line from spools on each bent end portion of said rod to a point inward from the end of the rod, the point being such that line passing from the spool will be substantially normal to the axis of the bent portion; a follower rest secured at one end to said thread guiding member and the other end extending upward in position to form a rest for a rod being wound; and a resilient member positioned to bear on a spool on each bent end portion, to resist rotation of the spool.

2,609,156
YARN-WINDING MACHINERY
William Harry Kimpton, Wilmslow, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application October 3, 1946, Serial No. 700,985
In Great Britain October 8, 1945
5 Claims. (Cl. 242—32)

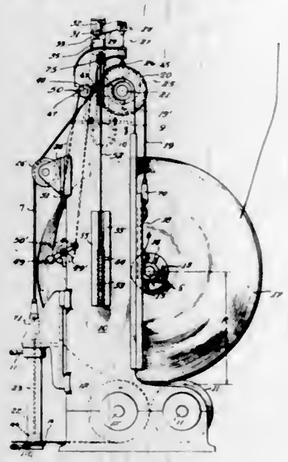
1. An automatic spindleless pirn-winding machine comprising an inner driving center, an outer center, a lever extending substantially at right-angles to the line joining said centers for carrying said outer center, means for swinging said lever toward said inner center to enable said centers to co-operate to grip a pirn tube, said

lever having a pivot adjustable in position in a direction parallel to said line for the gripping of



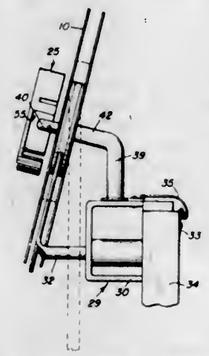
tubes of different lengths, and pirn tube storing and supply means for supplying pirn tubes in line between said centers.

2,609,157
WINDING APPARATUS
Jes Asmussen, Appleton, and Frank Gruper, Menasha, Wis., assignors to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin
Application November 12, 1947, Serial No. 785,424
3 Claims. (Cl. 242—66)



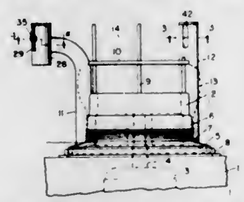
1. A winding machine comprising a pair of driven drums, a winder shaft upon which a web is wound located at the nip of said drums, said web being wound into a roll by frictional engagement with said drums, spaced guideways, said winder shaft being journaled for movement in said guideways, a hydraulic system including a pair of cylinders each having a piston, connecting means between said winder shaft and said pistons, a cam shaft, a cam mounted on said cam shaft for rotation therewith, said connecting means rotating said cam shaft as the web is being wound, a cam follower engaging said cam, said cam follower being connected to a valve in said hydraulic system whereby movement of the wound rollaway from said drums causes the hydraulic system to supply compensating pressure upon said pistons.

2,609,158
FILM REELING ASSEMBLY
Roy C. Bradley, San Bernardino, Calif.
Application December 24, 1947, Serial No. 793,645
12 Claims. (Cl. 242—70)



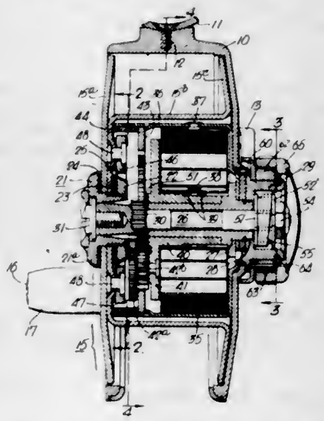
1. A film reel, comprising a hub member, side plates with central spider disks, spider arms and an annular rim carried by said spider arms, attached to said hub member, a carriage hub member concentric with said hub member and freely rotatable thereon, said carriage hub member being of a width smaller than the width of the film, and a removable winding hub member encircling said carriage hub member and, adapted to be fixed temporarily on said hub member, said removable winding hub member being provided with a cylindrical drum surface covering the freely rotatable carriage member and serving as a base for the film wound on the reel.

2,609,159
WIRE BUNDLING MECHANISM
Norman H. Nye, Cuyahoga Falls, Ohio, assignor to The Vaughn Machinery Company, Cuyahoga Falls, Ohio, a corporation of Ohio
Application January 7, 1948, Serial No. 851
8 Claims. (Cl. 242—78)



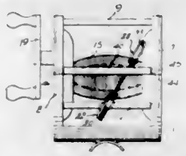
7. In wire bundling mechanism, the combination with a vertically disposed draw block operative when rotated to draw wire thereonto and form such wire into a coiled bundle which moves upwardly along said block as it grows, of driving means for said block, and spaced apart light source and light sensitive target elements with a light beam from the former element shining on the latter element and lying on a line tangent to a circle about said block and above such bundle so as to be cut off from said target element upon predetermined upward movement of such bundle, said driving means and target element being so connected together that the former is rendered operative and inoperative in response to such light beam shining on and being cut off from the latter respectively, said elements being located radially outward of such bundle to enable unobstructed lifting of the latter from said block.

2,609,160
AUTOMATIC FLY REEL
Earl T. Van Sciver, Glenside, Pa., Wesley J. Van Sciver, Palo Alto, Calif., and Edwin P. Van Sciver, Philadelphia, Pa., assignors to Ocean City Mfg. Co., Philadelphia, Pa., a corporation of Pennsylvania
Application November 28, 1950, Serial No. 197,874
6 Claims. (Cl. 242—84.3)



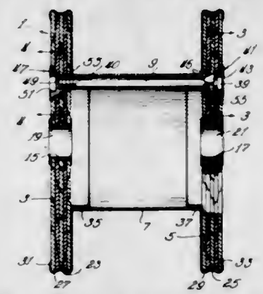
1. A combination manual and automatic fly reel, comprising a case open at one side, means for attaching said case to a fishing rod, a stationary sleeve centrally mounted in one side of said case, a drive shaft journaled on said sleeve, a stationary spring housing mounted in one side of said case, a main drive spring in said housing having one end secured to the housing and the other end secured to the drive shaft, a pinion shaft journaled in the bore of said sleeve, a clutch hub detachably secured to one end of said pinion shaft, a spool mounted on said clutch hub, a friction driving connection between said spool and said hub, driving connections between the pinion shaft and the drive shaft, said clutch and driving connections being operatively arranged to wind the drive spring on the drive shaft to store energy in the spring when the spool is turned, and braking means operatively associated with the other end of said pinion shaft for locking the pinion shaft and spool against the energy stored in the spring.

2,609,161
LEVEL WIND REEL
Kjall G. Guhlin and Nils G. Guhlin, Houston, Tex.
Application December 1, 1950, Serial No. 198,562
3 Claims. (Cl. 242—84.4)



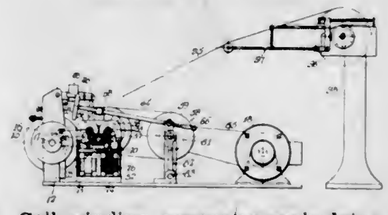
1. In a reel, a frame comprising a pair of spacedly connected head plates, a rotary spool shaft, a rotary camshaft, and a drive shaft journaled in and extending between said head plates, rotary driving means operatively connecting said shafts for rotation together, a cam on said camshaft formed with a bearing groove concentric with the axis of said camshaft, said bearing groove having plane parallel sides arranged in planes similarly oblique to the axis of said camshaft, a line distributing lever having a straight arm comprising a line guiding eye at one end and a bearing ring on its opposite end, said bearing ring being discontinuous and resilient and encircling said cam and being rotatably confined in said bearing groove, and a rockable lever guide extending between and journaled at its ends in said head plates alongside of spool shaft, said lever guide having a longitudinal guide slot through which said lever arm slidably extends whereby said lever is oscillated along said spool shaft as said drive means is rotated.

2,609,162
REEL
Hilyard C. Howsam, Chicago, Ill.
Application October 4, 1946, Serial No. 701,340
6 Claims. (Cl. 242—124)



5. In combination, a wooden reel head, a bolt for applying pressure to the side of said head, an aperture through said head which the bolt is adapted to enter, said aperture having wall means tapering inwardly in the direction in which the force of the bolt is applied, and a tapered pressure distributor seated in said aperture, said distributor being connected with said bolt, and the taper of said distributor and of said aperture being of the order of 20° and causing the pressure of the bolt to be transmitted mainly to the end grain of the head along the wall means of the aperture.

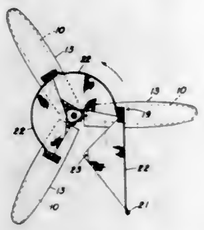
2,609,163
COIL WINDING APPARATUS
Joseph La Cesa, Chicago, Ill.
Application February 19, 1948, Serial No. 9,483
15 Claims. (Cl. 242—158)



1. Coil winding apparatus embodying therein a wire laying carriage, means upon which said carriage is mounted for a forth and back movement thereon, a lever mounted on said carriage for a rocking movement in a plane transversely of the plane of movement of said carriage, rotatively mounted laterally spaced feed screws arranged parallel with the line of movement of the carriage, half nuts mounted on said lever for engagement with an associated feed screw and

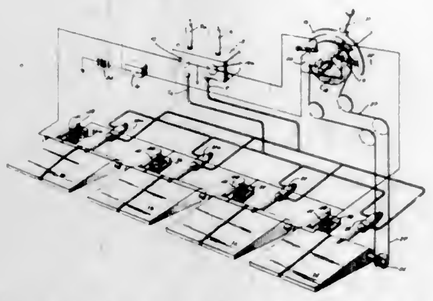
adapted in the rocking movement of said lever to be alternately engaged with and disengaged from said feed screws, electromagnetic means mounted on said carriage, one for each half nut and each including an armature, means for connecting parts of said lever on opposite sides of the rocking axis thereof, each with an armature, a circuit for said electromagnetic means, and means operative as the carriage reaches the limit of its movement in one direction for disconnecting an electromagnetic means from said circuit and connecting the other electromagnetic means thereto to cause a reversal of movement of the carriage.

2,609,164
SPLIT ENGINE COVER
Samuel Arthur Dillon, United States Navy
Application November 2, 1950, Serial No. 193,697
9 Claims. (Cl. 244—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A protective cover for an aircraft engine comprising a plurality of fabric sleeves adapted to be slipped one each over the engine's propeller blades, a channel-shaped member secured to each sleeve at a distance from the propeller hub approximately equal to the radius of the engine, a U-shaped member for each blade having a base adapted to fit in said channel-shaped member the arms of which extend substantially the engine length, and fabric means adapted to be supported on the arms of said U-shaped member to cover said engine.

2,609,165
FLAP POSITIONING CONTROL SYSTEM
Robert F. Hill, Hawthorne, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application January 20, 1948, Serial No. 3,192
5 Claims. (Cl. 244—42)



1. In an airplane, a plurality of flaps to be moved through a range of positions, a reversible flap actuating motor for each flap, a pilot moved control member, a follow-up member moved by one of said flaps only, a pair of direction switches cooperating with said members and with said actuating motors to actuate said motors by movement of said control member to move said flaps to positions directly related to the amount of movement of said control member, a limit switch positioned at each flap to be opened only when its respective flap is in a predetermined position, said predetermined position being at one extremity of said range of positions just short of the position normally called for by one of said direction switches at one end position of said control member, said limit switches being connected in parallel with each other and in series with said one direction switch to open said series circuit while said one direction switch is still closed, whereby all of said flaps will reach said predetermined position before said flap actuating motors are deenergized, a pointer attached to said follow-up member, and calibrated scale means associated with said control member and said pointer to indicate the actual position of the flap connected to said follow-up member at all times.

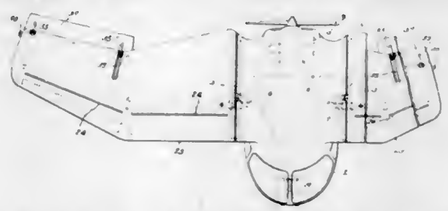
2,609,166
AIRPLANE FLAP SUPPORTING AND CONTROL MECHANISM
Joseph E. Bellam, Seattle, Wash., assignor to Boeing Airplane Company, a corporation of Delaware
Application December 22, 1945, Serial No. 636,892
11 Claims. (Cl. 244—42)



11. Control and supporting mechanism for an airplane wing flap located beneath the trailing portion of the wing in retracted position of the flap, comprising means supporting the flap from the wing for bodily extension and retraction movement of such flap rearwardly and forwardly, respectively, along a path generally parallel to the wing, the flap being pivotally connected to said supporting means to permit tilting of such flap during such movement, and flap-tilt control means comprising a substantially straight guide member disposed substantially parallel to the lower wing surface, a flap-tilting arm rigidly connected to the flap and projecting forwardly from the leading edge thereof, and guided means movable along said guide member and pivotally secured to the forward end of said flap-tilting arm for movement of the arm along said guide member to effect tilting of the flap downwardly during extension movement thereof, and upwardly during retraction movement thereof.

2,609,167
TAILLESS CONVERTIBLE AIRPLANE AND ROADMOBILE
Adelard J. Gero, Jr., Taftville, Conn.
Application November 30, 1948, Serial No. 62,625
3 Claims. (Cl. 244—49)

1. In an apparatus of the class described, the combination with a body, of wings at opposite sides of said body, universal joints connecting said body with the inboard ends of said wings at points intermediate the leading and trailing edges of the wings, means on said wings and body for securing said wings to be retained in a horizontal position, means on said body and wings for securing said wings when moved to an inoperative position and substantially parallel to said



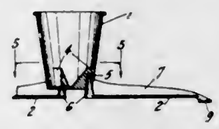
body, and a ground engaging skid device mounted on and connecting the outer ends of said wings when said wings are in a folded position.

2,609,168
JET AIRFOIL BRAKE
James A. McNally, United States Navy
Application September 10, 1947, Serial No. 773,282
1 Claim. (Cl. 244—113)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



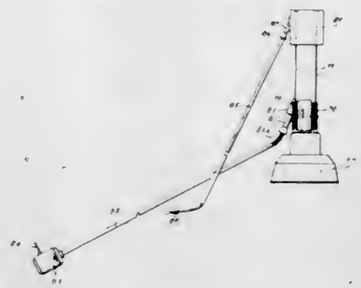
In a forward section of the sustaining airfoil of a propellerless airplane, an air intake opening in the leading edge of said airfoil, forwardly facing discharge nozzles disposed in the leading edge of said airfoil above and below said air intake opening, a combustion chamber, conduits connecting said air intake opening and said discharge nozzles to said combustion chamber, said air intake opening supplying air under pressure to said combustion chamber in response to the forward motion of the aircraft, said discharge nozzles emitting the products of combustion formed in said combustion chamber, and a plurality of slidably mounted members mounted in said airfoil section to close said discharge nozzles to form a continuous normal contour of said airfoil section when said discharge nozzles are not in use.

2,609,169
TREE SUPPORT
Ellwyn Kroeger, Le Claire, Iowa
Application December 23, 1947, Serial No. 793,417
3 Claims. (Cl. 248—48)



2. In a tree support, a water-containing cup and legs for supporting said cup and maintaining it in upright position, said cup having in its bottom portion lugs for the reception of parts of said legs, the lugs having downwardly facing and tapered openings, and the legs having heads that are tapered corresponding to the taper of said leg-receiving openings, and said heads extending substantially at right angles to the legs, whereby the legs spread outwardly when the heads are forced upwardly into said downwardly facing tapering openings.

2,609,170
MOTOR-DRIVEN LAMP HANGER
Thayer B. Farrington, Cleveland Heights, and Harold L. Dalzell, Cleveland, Ohio, assignors to The Thompson Electric Company, Cleveland, Ohio, a corporation of Ohio
Application March 19, 1948, Serial No. 15,794
9 Claims. (Cl. 248—319)



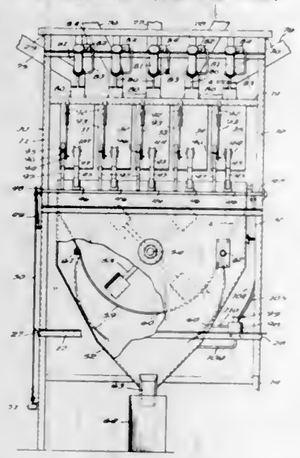
1. In lighting apparatus comprising a fixed member in an elevated position above a floor and a lowering member adapted to occupy a raised operative position in juxtaposition with said fixed member or to occupy a position lowered therebelow, and wherein a lamp is carried by said lowering member, the combination of flexible supports connected between said fixed and lowering members, means on one of said members for winding and unwinding said flexible supports, a rod adapted to reach from said one member to the floor, a motor carried by said rod, means for energizing said motor, and a drive connection between said motor and said winding and unwinding means.

2,609,171
SHOCK MOUNT FOR RELAYS
Harry M. Knapp, Scotch Plains, N. J., and Frank A. Zupa, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 1, 1948, Serial No. 47,274
7 Claims. (Cl. 248—358)



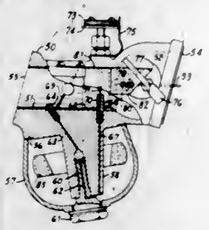
1. A relay mounting arrangement comprising a mounting plate, a relay, a mounting bracket attached to said relay, a plurality of supports substantially parallel to each other in substantially the same plane, said supports under tension rigidly securing said bracket to said plate, and a member interposed in compression between said plate and said bracket, said member having a plurality of points on its surface lying substantially in the same straight line substantially in said plane and substantially perpendicular to said supports and comprising substantially the sole contact area between said member and at least one of the pair consisting of said plate and said bracket, said supports and said member comprising the sole rigid support between said plate and said bracket.

2,609,172
COMBINATION WEIGHING AND MIXING MACHINE
William A. Kuring, La Crescenta, and Bernard A. Erickson, Glendale, Calif.
Application December 1, 1950, Serial No. 198,555
5 Claims. (Cl. 249—22)



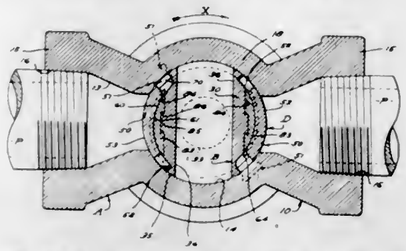
1. In a material weighing and mixing machine, a plurality of movable weighing containers, separate means for feeding material into each of said containers, closure means for each container operable for releasing the material therefrom, means associated with each container for automatically shutting off the feed thereto responsive to the presence therein of a predetermined weight of material, means for opening said closure means to release the contents of said containers, and means for each feeding means optionably movable between positions for rendering the associated feeding means operative and inoperative independent of movement of said weighing containers.

2,609,173
MANUALLY ADJUSTABLE CHOKE VALVE
Carl S. Weyandt, Homer City, and Neville C. McKelvy, Blairsville, Pa., assignors to Syntron Company, Homer City, Pa., a corporation of Delaware
Application August 3, 1946, Serial No. 688,186
1 Claim. (Cl. 251—11)



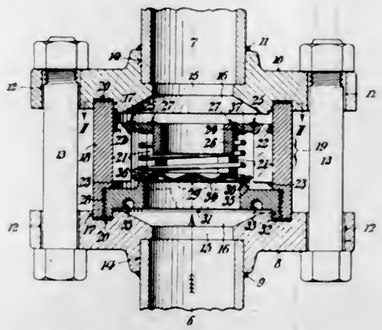
A manually operated choke valve for a carburetor supplying fuel to an internal combustion percussion hand tool, comprising a casing in which said choke valve is mounted, a cam fixed to move with the choke valve and having spaced projections with a series of seats therebetween, a spring loaded ball detent engaging said seats to hold said valve at different positions between its open and closed position, and a flexible arm on said casing to engage one of said projections and lock the valve in its fully open position.

2,609,174
PLUG VALVE
Joseph Heinen, Long Beach, Calif.
Application February 17, 1948, Serial No. 8,860
16 Claims. (Cl. 251—102)



1. A valve including, a body having a flow passage and a plug chamber intersecting the passage, a plug rotatable in the chamber and having a flow aperture movable into and out of register with the passage and having a curved exterior cam surface extending circumferentially of the plug and eccentric thereto, and a sealing plate having a curved cam face at its inner side seated on the cam surface, the said face and surface being of corresponding curvature and cooperating to move the plate radially of the plug into sealing engagement with the wall of the chamber upon rotation of the plug in the body.

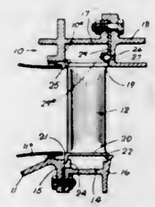
2,609,175
CHECK VALVE
Karl von Kokeritz, Staten Island, and Raymond H. Blackford, Long Beach, N. Y., and Bernard L. Schwaller, Wayne, Pa., assignors to Durabla Manufacturing Company, New York, N. Y., a corporation of New York
Application May 2, 1945, Serial No. 591,532
3 Claims. (Cl. 251—144)



1. A check valve for a fluid comprising a housing having a substantially cylindrical inner face, said housing having an inlet and an outlet for fluid, a ported valve seat base mounted in said housing adjacent to the inlet thereof, a valve seat on said base, a plurality of spaced-apart bar elements each extending longitudinally along the inner face of said housing and forming longitudinally-extending channels therebetween, a ring fixed to the inner faces of said bar elements near the outlet of said housing, the outer face of said ring coacting with the inner face of said housing to form passages near the ends of said channels through which fluid may pass, a stop element having a cylindrical surface fixed within said ring, a valve disc having a curved outer portion movable longitudinally in said housing intermediate said stop element and said valve seat, and

reactive means in the form of a helical spring mounted in said housing continuously urging said disc toward said seat, said disc having a diameter substantially equal to the diameter of said ring whereby the outer edge of the valve disc is adjacent to the inner edges of said bar elements and the inflowing fluid is thereby caused to flow through the longitudinally extending channels between said spaced-apart bar elements, and said helical spring being substantially in alignment with said valve seat and with the curved outer portion of said valve disc.

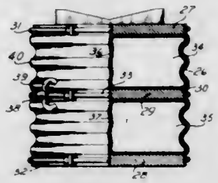
2,609,176
TURBINE NOZZLE GUIDE VANE CONSTRUCTION
Joseph Thompson Purvis, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada
Application January 21, 1950, Serial No. 139,867
3 Claims. (Cl. 253—78)



1. In an axial flow elastic fluid power conversion machine, a fixed annular outer casing, a fixed generally cylindrical inner structure within and radially spaced from the casing and defining therewith an annular passage for the flow of fluid, the inner structure having an encircling surface provided with a series of circumferentially spaced surface interruptions having radially and axially disposed faces, said inner structure having a radially protruding annular surface downstream of the said first-mentioned surface and facing upstream of the flow, a plurality of guide vanes traversing the annular passage, each of the guide vanes having an outer platform adjacent the outer casing and an inner platform adjacent the inner structure, clamping means on the outer casing securing the outer platforms to the outer casing, each of the guide vane inner platforms having at its upstream side a radially inwardly extending projection, the projections being in radially and axially slidable engagement with the interruptions on the said first-mentioned surface to permit radial and downstream axial movement and to prevent circumferential movement of the guide vanes with respect to the inner structure, the downstream side of each of the guide vane inner platforms abutting the said protruding annular surface to permit relative radial and circumferential movement but to prevent downstream axial movement of the guide vanes with respect to the inner structure.

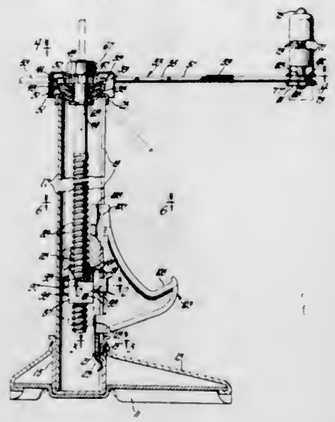
2,609,177
AUTOMOBILE JACK
George E. Hughes, Kansas City, Mo.
Application December 15, 1948, Serial No. 65,314
1 Claim. (Cl. 254—93)

A pneumatic lifting device for a vehicle and the like comprising, a circular base having a groove around the periphery thereof, a normally collapsed expansible bellows of substantially non-resilient fabric having one end engaging the periphery of said base, means surrounding said one end of the bellows and fitting in the groove of the base to secure the bellows thereto, a circular top member of substantially the same diameter as the base and having a groove around the periphery thereof and engaged with the other end of the bellows, means surrounding said other end of the bellows and fitting in the groove of the top member to secure the bellows thereto, means on the top member for engaging portions of a vehicle to be lifted and retain same against relative lateral movement, rigid means secured in the bel-



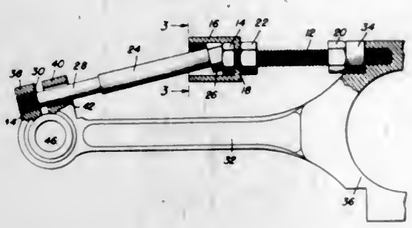
lows between the base and top member and forming a plurality of compartments therebetween, air retaining bags of impermeable resilient material within each compartment, and means for supplying air under pressure simultaneously to the bags for expanding same and extending the bellows to lift a vehicle, said bellows and bags being adapted to be collapsed into an accordion-like structure when the air pressure is released from the bags for removing the device from under the vehicle.

2,609,178
LIFTING JACK
Godfrey G. Kearful, Joseph J. Verbrugge, and Ralph A. Malone, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 10, 1946, Serial No. 675,538
26 Claims. (Cl. 254—98)



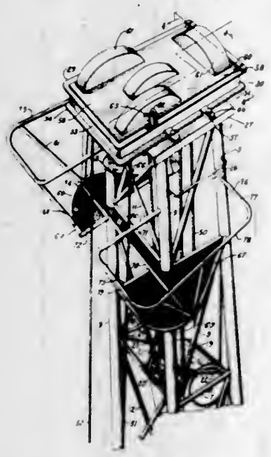
1. In a lifting jack, a tubular column having a slot, a screw within and projecting from said column, a nut on said screw within the column and a load supporting hook having a part resting on said nut, a non-rotatable cap closing the top of said column, an operating arm, means connecting said arm to said screw, a ratchet connected to said screw for rotation therewith, a cup member supported on said cap means to support said screw on said cup member, and a sliding pawl adapted to cooperate with said ratchet to rotate said cup member in one direction of rotation only to frictionally engage said cap.

2,609,179
TOOL
Donald T. Baldwin, Lincoln, Ill.
Application May 27, 1948, Serial No. 29,540
6 Claims. (Cl. 254—100)



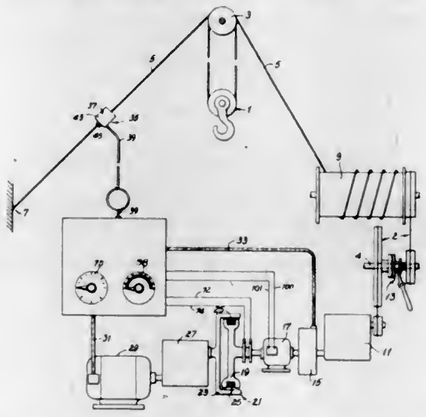
1. A tool for loosening the wrist pin of a connecting rod on a motor vehicle, consisting of an anchor bolt adapted to bear against the crank shaft journal, a push rod secured to one lug of a wrist pin clamp, a hollow cylinder receiving the free ends of said bolt and rod, and a rotatable adjusting nut mounted on said anchor bolt whereby on rotation thereof the wrist pin clamps are forced apart and permit easy removal of the wrist pin.

2,609,180
DERRICK
Emmett Lee Alexander, Enid, Okla., assignor to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma
Application June 23, 1948, Serial No. 34,800
7 Claims. (Cl. 254—139.1)



1. A derrick including spaced corner legs, girts interconnecting the legs at the side and rear of the derrick to leave an open front side in which tackle is adapted to operate, platform members diverging outwardly and rearwardly from the front legs and curving inwardly around the rear legs in spaced relation therewith, a transverse member extending parallel with a girt connecting the rear legs and extending beyond said sides of the derrick to connect said curved portions of said members, tie members connecting terminals of the curved portions with the transverse member, and a floor carried by said members and having an opening between said tie members to pass lines of said tackle.

2,609,181
HOIST CONTROL
Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware
Application June 1, 1948, Serial No. 30,391
6 Claims. (Cl. 254—172)

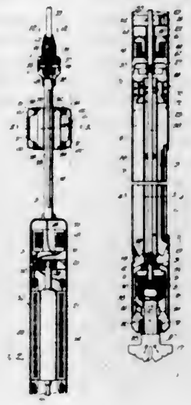


6. A hoist control for hoisting equipment having a hoist drum and a cable adapted to be payed therefrom, comprising a variable electromagnetic brake for said hoist drum, a generator responsive to the rotational speed of said drum to produce an electrical output, a tension-sensitive pick-up connected for response to the tension in said cable, a source of electrical power, a first potentiometer connected to said power source and remotely controllable by said pick-up to produce a first potential, a second potentiometer connected to said generator and adapted to produce a second potential, and a third potentiometer connected in series opposition with said first potentiometer to produce a third potential, said brake being connected for response to the composite potential of said three potentiometers and said electrical output to maintain the rotational speed of said drum below a first predetermined value and the tension in said cable substantially constant at a second predetermined value, said second and third potentiometers being manually adjustable to vary the respective predetermined values of rotational speed and cable tension.

2,609,182
APPARATUS FOR DRILLING DEEP WELLS
Armais Arutunoff, Bartlesville, Okla.
Application November 23, 1946, Serial No. 711,959
8 Claims. (Cl. 255—4.8)

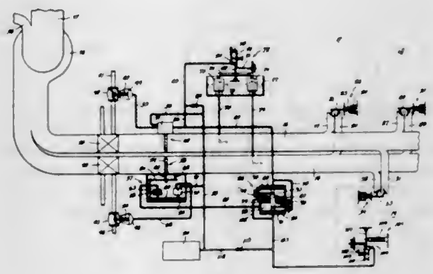
2. In well drilling equipment of the type wherein a bit is driven by a motor that is lowered into the bore behind the bit and follows the bit downwardly as drilling progresses, said equipment being at least partially submerged, during drilling, in liquid introduced into the bore hole; the improvement which comprises a vertically elongated vessel connected to the motor housing and lowered into the bore hole therewith, said vessel having at its top an inlet port submerged below the surface of said liquid, said vessel also having at its top an outlet port, a pump driven by said motor, a duct connecting the intake side of the pump to said outlet, a duct extending from the discharge side of the pump and opening into the bore hole adjacent the bit, whereby liquid drawn into said vessel through said inlet port is discharged at the bit and recirculated upwardly

in the bore hole back to said inlet port, and baffle means in said vessel between said inlet port and



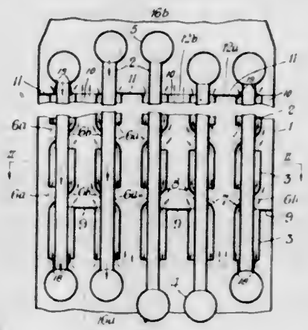
said outlet port for deflecting the liquid stream to induce the deposit in said vessel by sedimentation of detritus carried by said stream.

2,609,183
CONTROL APPARATUS
Frank R. Fitzgerald, El Monte, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 2, 1948, Serial No. 47,452
13 Claims. (Cl. 257—3)



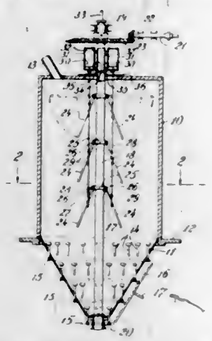
1. In an air conditioning system for a plurality of zones, a pair of ducts for delivering tempered air to said zones, blower means for circulating air through said ducts, heater means for heating the air in one of said ducts, cooling means for cooling the air in the other of said ducts, branch means for diverting air from each of said ducts to each of said zones, mixing damper means for controlling each of said branch means for proportioning the flow of air delivered from each of said ducts to each of said zones, a submaster type thermostat in each of said ducts responsive to the temperature of the air in said ducts for controlling, respectivey, the heater means and the cooling means, means responsive to the difference in static pressures in said ducts for adjusting said submaster thermostats, apparatus responsive to relative humidity, and means connecting said apparatus in controlling relation to said cooling means in a manner to exercise control of said cooling means when said relative humidity varies beyond a predetermined value.

2,609,184
HEAT EXCHANGER
Meyer Frenkel, London, England
Application April 10, 1948, Serial No. 20,292
In Great Britain May 22, 1947
19 Claims. (Cl. 257—227)



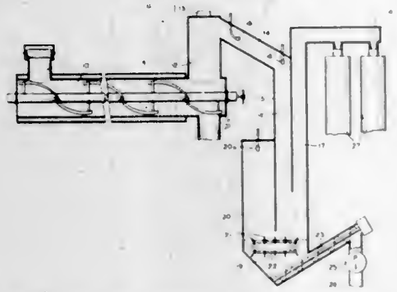
8. A heat exchanger comprising a duct, a plurality of rows of heat exchange elements within said duct, said elements being respectively bathed externally by a first fluid traversing said duct and traversed internally by a second fluid taking part in the heat exchange, a plurality of guide-casings for said first fluid each arranged around a row of said elements and having each an entry for said first fluid at one end and an exit for said first fluid at its other end, and at least one entry-guide-means and exit guide-means for said first fluid in opposite side-walls and situated between the entry and exit ends of said casing at a position along the length of said heat exchange elements of said row, for diverting layers of said first fluid which have flowed in immediate heat exchange proximity substantially along the elements of said row and have taken their part in the heat exchange away from said elements out of said casing to one side thereof, and for guiding layers of said first fluid which have flowed outside said guide-casing on its other side and have not yet flowed in heat exchange proximity with a heat exchange element into immediate heat exchange proximity with said elements of said row on their respective continuations, to flow therealong in the same direction in which flowed the layers which have been diverted from said elements, said rows of heat exchange elements with their guide-casings being spaced adjacent to one another so that for adjacent rows said entry and respectively exit guide-means face one another across alternate spaces between guide-casings of adjacent rows of elements, each alternate space between two guide-casings, into which face exit guide-means thus forming an exit-space and containing first fluid which has already taken part in the heat exchange, and every other alternate space between two such guide-casings, into which face entry guide-means, thus forming an entry-space containing first fluid which has not yet taken part in the heat-exchange, the said heat exchanger further comprising the side-walls at least for said exit-spaces, which side-walls extend between adjacent guide-casings, and baffles situated substantially at at least one end of said exit and entry spaces, the said baffles at the ends of said entry-spaces extending to the wall of said duct, for separating space in said duct which contains said first fluid before it has taken part in the heat exchange from space in said duct which contains said first fluid after it has taken part in the heat exchange.

2,609,185
METHOD AND APPARATUS FOR INCREASING FLUIDITY OF MATERIAL
Johannes Eisner, Copenhagen, Denmark, assignor to F. S. Smidth & Co., New York, N. Y., a corporation of New Jersey
Application June 29, 1950, Serial No. 170,995
In Great Britain July 4, 1949
13 Claims. (Cl. 259—24)



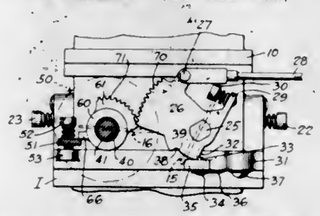
1. A method of increasing the fluidity of a body of material which comprises injecting compressed air into a portion of the body of material, agitating said portion of the body until its fluidity is substantially increased, and progressively repeating said steps of air injection and agitation with additional portions of the body of material surrounding the portions of the body previously agitated until the fluidity of substantially the whole body is increased.

2,609,186
SCRUBBER FOR SOLVENT EXTRACTION TOWERS
Raymond T. Anderson, Lakewood, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a corporation of Ohio
Application December 9, 1948, Serial No. 64,319
1 Claim. (Cl. 261—2)



Apparatus for removing dust from the vapours discharged from a meal drier, comprising a settling chamber extending upward vertically from said drier and having its lower end in free vapour-flow communication with said drier, said settling chamber being of a cross-sectional area approximately equal to the cross-sectional area of the drier, a downwardly inclined passage having its upper end in communication with the top of the settling chamber, a scrubber in communication with said downwardly inclined passage, said scrubber being of bifurcated form having a downward branch in communication at its top end with said passage, and an upward branch having its lower end in communication with the lower end of said downward branch, a partition separating said branches but permitting communication between said branches below its lower edge, means for supplying a liquid spray in said downward branch, a liquid reservoir in the common zone of communication of the two said branches and below said partition, a supply of liquid in said reservoir having its upper surface below said partition, conveying means extending from the bottom of said reservoir upwardly and outwardly above the liquid level for discharging sludge from said reservoir, said reservoir being provided with an endless belt having a series of paddles thereon, means for producing travel of said belt whereby said paddles move in succession across the upper surface of the liquid in said reservoir, a side bay disposed adjacent said scrubber, said paddles being disposed to move surface foam in said reservoir towards said bay, and liquid spray means in said bay directed towards said foam.

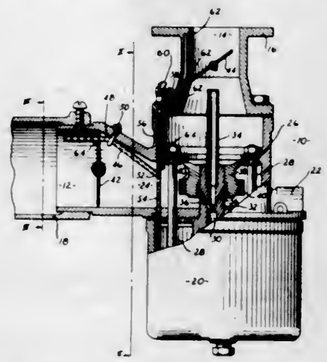
2,609,187
CARBURETOR
Harry T. Scott, Los Angeles, Calif.
Application October 24, 1947, Serial No. 781,784
4 Claims. (Cl. 261—23)



3. In an internal combustion engine, a carburetor comprising: a plurality of carbureting units having a main throttle valve and an unbalanced auxiliary throttle valve, respectively, and shafts to which the respective valves are fixed, to mount them for rotation independently about laterally offset and parallel axes; a manually operable actuating member fixed to the shaft of the main valve; a control member freely mounted on the shaft of the auxiliary valve; means urging said control member to rotate in a direction to close the auxiliary valve; an inertia member fixed to the shaft of the auxiliary valve; said control and inertia members having stops co-acting under the action of said urging means, to maintain the auxiliary valve closed; and a lost-motion operative connection between the actuating and control members including gears by which the control member will be rotated counter to its urged direction when said main valve has been opened to a predetermined position, so as to move the control member away from the inertia member stop to free the auxiliary valve for opening movement by vacuum in the induction system at the downstream side of the valve; the ratio between said gears being such that opening movement of the main valve beyond said predetermined position to a maximum open position will render the auxiliary valve free to move from its closed position to a maximum open position so as to obtain maximum volumetric efficiency from both carbureting units.

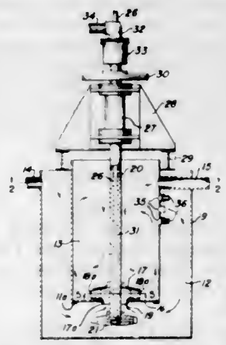
2,609,188
AIR BLEED STRUCTURE FOR AUTOMATICALLY CONTROLLING AIR AND FUEL RATIO IN CARBURETORS AT VARYING ENGINE SPEEDS
Edward C. Brehob, Indianapolis, Ind.
Application November 22, 1948, Serial No. 61,366
4 Claims. (Cl. 261—72)

1. In a carburetor provided with a housing having an air passage therethrough interconnecting the intake manifold of an internal combustion engine with the atmosphere when the carburetor is placed in use, a fuel bowl having connection with said passage intermediate the ends thereof, and a valve in the passage adjacent that end thereof proximal to the intake manifold for controlling the flow of air and fuel into the intake manifold induced by suction created in the latter through operation of said engine; the improvement of which comprises means for introducing air into said fuel bowl at pressure



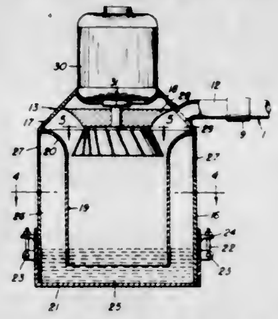
varying with the extent of air flow through said air passage as determined by the position of said valve; and structure for introducing said suction to said means to counteract the flow of air in said means to an extent dependent upon the position of said valve, said structure comprising a pipe directly connecting said means and said passage adjacent the valve, said pipe having a plurality of ports opening into the passage, at least one port being on one side of the valve and the remaining ports being on the opposite side of the valve when the latter is closed.

2,609,189
MACHINE FOR CONDITIONING LIQUIDS WITH GASES
Roger Dering, Salt Lake City, Utah, assignor to Combined Metals Reduction Company, Salt Lake City, Utah, a corporation of Utah
Application April 26, 1949, Serial No. 89,632
12 Claims. (Cl. 261—93)



1. A machine for conditioning liquids with gases, comprising a gas-injection tank; means for supplying a liquid to said tank; means for injecting a gas into the liquid within said tank; an agitation tank disposed within said gas-injection tank and spaced upwardly from the bottom thereof, said agitation tank having a closed bottom and side walls which completely separate the interiors of said tanks; passage means leading through said closed bottom from the said gas-injection tank to the said agitation tank; an agitation impeller operatively disposed within said agitation tank above said passage means and adjacent the said bottom so as to be completely submerged and surrounded by liquid without access to the atmosphere, for aiding elevation of liquid therethrough and for agitating the liquid within said agitation tank; and outflow means leading from said agitation tank.

2,609,190
SUCTION APPARATUS FOR CLEANING ROOMS
Harold F. Jackson, Long Beach, Calif., assignor of one-third to William L. Hildebrand and one-third to Robert G. Whitehead, Long Beach, Calif.
Application July 22, 1949, Serial No. 106,265
2 Claims. (Cl. 261—121)

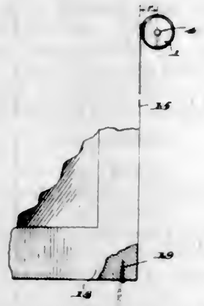


1. A combined dirt collecting and air filtering device for cleaning a room comprising a casing having a bottom water containing receptacle for collecting dirt from dirt-laden air forced into the water to escape out of the same and be filtered thereby, said casing having upper discharge openings therein for the filtered air, a suction and blower fan in the upper part of the casing, means in said casing forming therewith an annular suction channel around said fan opening onto the same and adapted to receive dirt-laden air drawn into the same by said fan and forced downwardly by the fan into the water, said means including a down-take duct depending into said casing and into the water to direct the downwardly forced air into the water, said duct having a flaring upper end forming one side of said channel and connected to said casing above said openings, and said duct below said upper end thereof being spaced from said casing to form with said casing and said upper end of said duct an annular filtered air up-take chamber leading to said openings, said channel having an inlet nipple adapted to be connected to a suction line leading to a room.

2,609,191
SPRING COUNTERBALANCE
Edwin E. Foster, Austin, Tex., assignor, by mesne assignments, to Eastern Metals Research Co. Inc., New York, N. Y., a corporation of New York
Application February 16, 1948, Serial No. 8,599
4 Claims. (Cl. 267—1)

1. A spring device comprising a tightly coiled, spirally wound spring having an inner end and

an outer end, means supporting said spring for rotation about its axis, whereby a force sufficient to straighten said spring and exerted on the outer end of said spring will cause said spring to rotate bodily and unwind, said spring being of uniform width and thickness and being formed



with a uniformly decreasing normal radius of curvature, when unstressed from its inner end to its outer end to neutralize the variable of the shortening lever arm as the spring is unwound, whereby the effective tension of the spring throughout its length will be constant.

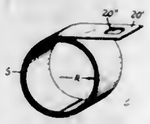
2,609,192

COIL SPRING AND COIL SPRING ASSEMBLY, INCLUDING THE SUPPORT FOR SUCH SPRINGS

Basil Lermont, New York, N. Y., assignor, by mesne assignments, to Eastern Metals Research Co., Inc., New York, N. Y., a corporation of New York

Application May 28, 1949, Serial No. 95,956

19 Claims. (Cl. 267—1)



1. A coil spring comprising a piece of spring metal having unequally stressed convex and concave surfaces, each increment of said piece transversely of its length having the same radius of curvature, when in repose, said piece being coiled upon itself in a plurality of convolutions disposed in a substantially common radial plane and resisting straightening of said convolutions with constant tension throughout the length of said piece.

2,609,193

SPRING SASH COUNTERBALANCE

Edwin E. Foster, Austin, Tex., assignor, by mesne assignments, to Eastern Metals Research Co., Inc., New York, N. Y., a corporation of New York

Application April 30, 1947, Serial No. 744,809

3 Claims. (Cl. 267—1)

1. A normally coiled spring comprising a plurality of convolutions of a ribbon spring lying in a common plane, said convolutions being internally stressed to cause said convolutions to coil up spirally upon each other in tight engagement, said spring being tapered uniformly from its inner end to its outer end, said inner end being of smaller cross-sectional area than its outer end, the taper compensating for differences in the radii of said convolutions of the spring to provide uniform resistance to straightening of every



increment of said spring by application of force to the outer end of said spring.

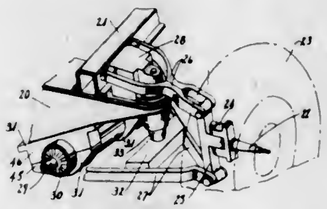
2,609,194

SPRING

Alvin S. Krotz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Original application February 3, 1943, Serial No. 474,545, now Patent No. 2,409,500, dated October, 15, 1946. Divided and this application August 6, 1946, Serial No. 688,669

5 Claims. (Cl. 267—21)



1. A torsion spring comprising inner and outer torque structures and an intervening body of resilient rubber-like material secured to said structures, the outer torque structure comprising an inner sheet metal sleeve and an outer circumferentially continuous sheet metal sleeve, one of the sleeves having a circumferentially discontinuous aperture through the sheet metal wall thereof and the other of the sleeves having the sheet metal thereof indented at one face to provide a circumferentially discontinuous projection at the opposite face for seating in said circumferentially discontinuous aperture of the other sleeve and thereby providing a lock against relative rotation of the sleeves.

2,609,195

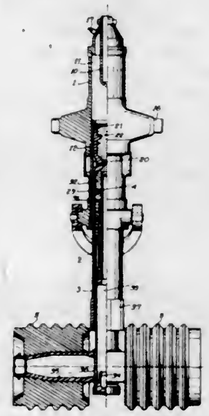
OLEO-PNEUMATIC SHOCK STRUT

George T. Drakeley, Seattle, and Carl V. Hanson, near Renton, Wash., assignors to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware

Application July 11, 1949, Serial No. 104,052

8 Claims. (Cl. 267—64)

1. A shock absorber for use in an aircraft landing gear, comprising an upper terminal member for connection to the aircraft, a lower terminal member for connection to a ground-contacting element, and an intermediate member, all three members interfitting for relative telescoping movement, and formed and cooperatively arranged to define an upper cylinder and plunger pair and a separate lower cylinder and plunger pair, the members of each such pair being so relatively movable at all times simultaneously with but independently of relative movement of the members of the other pair, both such pairs being pneumatically preloaded, the lower pair materially more greatly than the upper pair, the intermediate member being of large effective



mass and consequent high inertia, whereby its telescoping movement relative to the upper one of the terminal members occurs primarily under the influence of a long-continued force, despite the lower preloading, and the lower terminal member being of small effective mass as compared to the effective mass of the intermediate member, whereby its telescoping movement relatively to the intermediate member occurs primarily under the influence of abruptly applied force, despite the higher preloading.

2,609,196

DEVICE FOR IMPARTING A TUMBLER MOTION TO VERTICAL STRUCTURAL PARTS

Jacob Wieland, Gorinchem, Netherlands, assignor to De Vries Robbe & Co. N. V., Arkelschedijk, Gorinchem, Netherlands

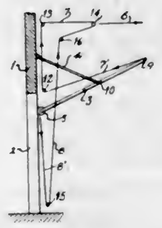
Application December 24, 1947, Serial No. 793,644

In the Netherlands June 5, 1944

Section 1, Public Law 690, August 8, 1946

Patent expires June 5, 1964

5 Claims. (Cl. 268—74)



1. An operating arrangement for covering and uncovering an opening in a vertical wall by a rigid slide-up, turn-over closure member hinged at an intermediate point by at least one arm to said wall and slidably guided at its lower end along said wall for swinging and sliding the closure member into an open and a closed position

respectively, the said operating arrangement comprising first flexible traction means attached to the lower edge of the closure member, second flexible traction means attached to the upper edge of the closure member, first stationary guide means guiding the first traction means for exerting a pull upon the lower edge of the closure member in substantially vertical direction, second stationary guide means guiding the second traction means for exerting a pull upon the upper edge of the closure member in a substantially horizontal direction, said two traction means being joined at their free ends, and third movable guide means guiding said joined traction means and disposed to exert a pull on both said traction means for the purpose of effecting the aforesaid vertical and horizontal pulls in response to a displacement of the third guide means, thereby moving the closure member from one position into the other.

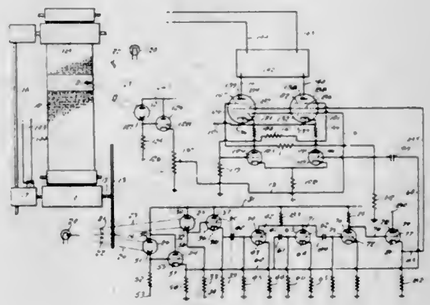
2,609,197

REGISTER CONTROL SYSTEM

Henry F. McKenney, Flushing, and George A. Lieske, Brooklyn, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Application November 18, 1949, Serial No. 128,216

3 Claims. (Cl. 271—2.6)



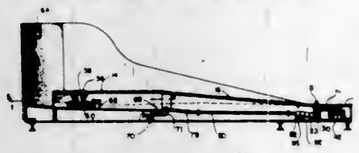
1. In a control system for a machine having an element operating upon a moving web of material in predetermined relationship with respect to register markings thereon, means for driving said web and said element at predetermined speeds, a registry control mechanism including a correction motor connected to adjust the relative driven positions of said web and said element, photoelectric scanning means scanning said web and having means producing a web pulse corresponding to the passage of each of said register markings, a pair of other photoelectric scanning means, a member driven with said element and having a gating area arranged to pulse said other photoelectric scanning means in continuous sequence and in predetermined relationship with the position of said element, a circuit connected to produce a gating signal in response to and of a duration corresponding to the sequence of pulses on said other scanning means, a circuit connected to produce a pulse in response to the individual pulse of one of said other scanning means, and a control circuit having means responsive to the coincidence of said web pulse, said gating pulse and said individual pulse to operate said correction motor in one direction, and having means responsive to the coincidence of said web pulse, said gate pulse, and the absence of said individual pulse to operate said correction motor in the other direction.

2,609,198
DEVICE FOR SETTING GOLF BALLS AND TEES
Victor C. Armstrong, Short Hills, N. J.
Application August 26, 1949, Serial No. 112,601
1 Claim. (Cl. 273—32)



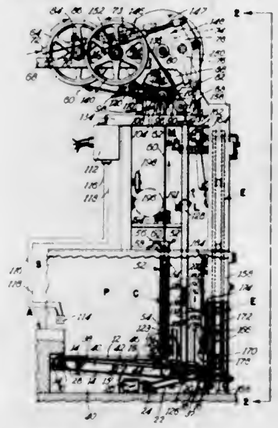
A golf ball teeing device, comprising, a hollow shaft, a housing carried by the lower end of the shaft and including a vertical wall portion opening laterally to one side of the shaft and a bottom wall spaced below the terminal portion of the shaft, said vertical wall being internally curved to conform to an arcuate part of the circumference of a golf ball, said bottom wall having therein a slot to receive the shank of a golf tee, said slot being open at one end to permit insertion into and removal therefrom of said shank of a golf tee by relative lateral movement of the tee and said bottom wall, a plunger extending through the shaft and having at its lower end a golf ball engaging face, spring means tending constantly to elevate said plunger so as to normally hold said face spaced above said bottom wall of the housing to permit free insertion and removal of a golf ball into and from the space between said face and the head of a golf tee disposed with its shank in said slot of the bottom wall, means on said plunger adjacent to the top of said shaft for finger engagement to effect depression of said plunger to clamp a golf ball between the said face thereof and the head of a golf tee disposed in the slot of the bottom wall of the housing so that by downward movement of the entire device toward the ground a golf tee with a golf ball resting thereon may be driven into the ground, the ball being releasable by elevation of said plunger upon removal of downward pressure upon the latter and the device being laterally movable to effect its disengagement from the tee, said device being of a length to reach from the ground approximately to the waist of the user of the device to avoid any necessity of the user of the device stooping or bending over when employing the device to tee a ball.

2,609,199
GOLF PUTTING GAME DEVICE
Ralph F. Koener, Chicago, Ill.
Application November 2, 1948, Serial No. 57,953
2 Claims. (Cl. 273—35)



2. A golf putting game device, comprising: a horizontal player's platform; a horizontal object surface; a drive way connecting said platform and said object surface and inclining upward from said platform to said object surface; a manually controlled electrically driven ball teeing device disposed below said player's platform; an object cup in said object surface; an electric counting switch disposed below said cup; visual means for recording balls counted by said counting switch; a gutter disposed on each side and the remote end of said object surface; collecting balls passing through said cup or falling in said gutter; a ball delivery chute connecting said collecting means and said ball teeing device; electrical stop means positioned in said ball delivery chute to retain balls collected by said collecting means until released by the player; an electric interlock having a micro-switch positioned in said chute and operable by action of balls in said chute depressing said micro-switch, to hold said ball teeing device inoperative until balls are available to said device; and said ball delivery chute having sharply inclined portions in the area of said stop means and in the area of said ball teeing device.

2,609,200
BACKSTOP MECHANISM FOR BOWLING PIN SPOTTING MACHINES
Rupert E. Rundell, Rockville Centre, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey
Application October 29, 1946, Serial No. 706,472
14 Claims. (Cl. 273—43)



1. In a bowling pin setting machine associated with an alley having a pit at one end thereof, a backstop located in said pit, mechanism for conveying a ball and pins received in said pit toward said backstop, supports mounting said backstop with its lower edge located above said conveying mechanism a distance less than the diameter of a bowling ball for preventing the movement of a ball therepast, and means for moving said backstop vertically out of the path of travel of said ball and pins, whereby said ball and said pins may be moved unrestrictedly beneath said lifted backstop.

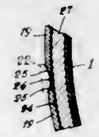
2,609,201
SILICONE ELASTOMER GOLF BALL CORE
Frank S. Martin, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application June 26, 1947, Serial No. 757,145
3 Claims. (Cl. 273—62)

1. A golf ball core adapted to have rubber thread wound tightly thereupon to form the golf ball body; said core comprising a center formed of a mixture of a solid gel-like heat reaction product of a dimethyl silicone oil with a minor portion of a compound of boron added thereto and having pronounced bouncing properties that are equal to those of good vulcanized elastic rubber and also having putty-like plasticity, said mix-



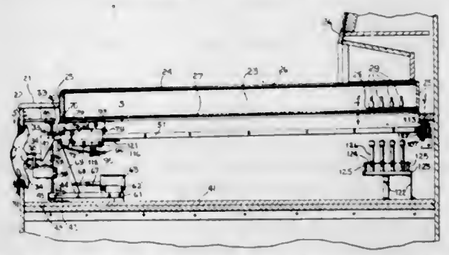
ture also containing at least about 5% of zinc soap based on the weight of said solid gel-like heat reaction product to substantially increase the shatter-resistant properties of the center and containing an inorganic filler, and a shell of vulcanized rubber surrounding and confining the center.

2,609,202
BALL AND METHOD OF MAKING IT
Henry T. Winterbauer, Arlington Heights, Ill., assignor to J. A. Dubow Manufacturing Co., Inc., Chicago, Ill., a corporation of Illinois
Application September 30, 1948, Serial No. 52,098
13 Claims. (Cl. 273—65)



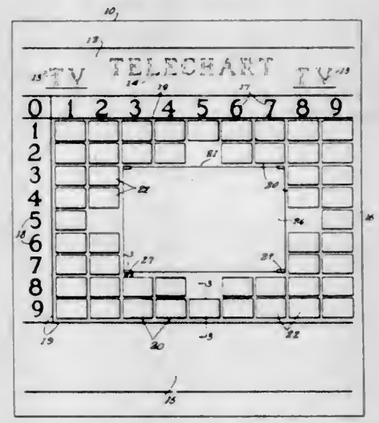
1. In combination in a playing ball, an airtight bladder, a body formed thereabout, and an outer coating formed of a plurality of surface members, cement positioned upon the outer surface of said body and holding said surface members in place, the edges of adjacent surface members being tapered so as to be substantially thinned and separated from each other to define areas of separation, the said cement extending across said areas of separation and extending outwardly away from the body of said ball and upwardly along the edges of said surface members and overlying said edges.

2,609,203
SIMULATED BOWLING GAME
Frank J. Bula, Speedway, Ind., assignor of one-third to Vincent T. Connor and one-third to Theodore Kruse, both of Chicago, Ill.
Application December 1, 1948, Serial No. 62,807
8 Claims. (Cl. 273—85)



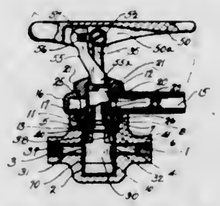
5. An amusement game apparatus comprising a translucent playing field, a plurality of translucent elements at one end of said field, an incandescent lamp within each of said elements, an electric circuit for said lamps including a plurality of switch members, means for projecting a spot of light upon said field, means for supporting said light projecting means for movement relative to said field, said last-named means having an element adapted to engage one or more of said switch members to close the circuit to said incandescent lamps.

2,609,204
RADIO AND/OR TELEVISION GAME APPARATUS
Herbert H. Wixson, North Hollywood, Calif.
Application May 21, 1949, Serial No. 94,619
2 Claims. (Cl. 273—139)



1. Game apparatus of the character described, comprising a game board having a series of grooves in the outer face thereof, a horizontal and a vertical row of numerals on the face of said game board, each numeral of one row combining with any of the numerals of the other row to constitute a number comprising two of said numerals and each such number designating a space on the face of the game board, and a removable plaque occupying each of said spaces and embodying projections that enter the mentioned grooves, each plaque bearing indicia on the face thereof that is directed toward the face of the game board.

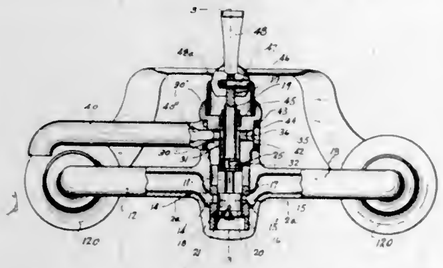
2,609,205
FAUCET
Alfred M. Moen, Seattle, Wash., assignor of one-tenth to Robert O. Boyker, Seattle, Wash.
Application April 13, 1945, Serial No. 588,091
1 Claim. (Cl. 277—11)



A faucet of the character described including a housing providing a valve chamber, a hollow nut threaded thereinto and mixing valve having a stem extended therefrom coaxially through

the nut; a bracket having a mounting collar at one end rotatably contained in the hollow nut and held against longitudinal movement relative to the housing and through which the stem is extended, the outer end portion of said bracket being extended from the nut and offset from the stem, and a handle lever pivotally fixed to the outer end of the stem and having a fulcrumed connection with the outer end of the bracket, said mounting collar of the bracket having an integral circumferentially directed flange confined within the hollow nut and terminating in abrupt shoulders at its ends and a non-rotatable member fixed in the nut and equipped with shoulders to be engaged by the shoulders on the collar to limit the extent of turning of the bracket in opposite directions to limit the turning of the valve stem accordingly.

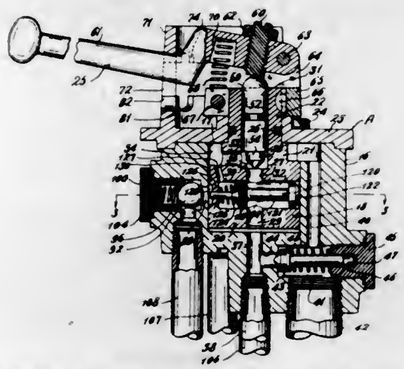
2,609,206
MIXING FAUCET
Alfred Melvin Moen, Seattle, Wash., assignor of one-tenth to Robert O. Boyker, Seattle, Wash.
Application September 7, 1946, Serial No. 695,481
7 Claims. (Cl. 277—12)



1. A mixing valve comprising a casing having a cylindrical chamber therein, the upper part of said chamber being of substantially larger diameter than the lower part and having a discharge port at its upper end, and there being a plurality of fluid ports in the casing and extending to the inner periphery of the smaller portion of the chamber, a reciprocally movable piston in the smaller portion of the chamber and extending into the enlarged portion of the chamber in spaced relation to the wall of the upper large portion of said chamber and formed at its upper end with a valve cooperating with the said discharge port; one side of said piston being recessed and forming a passage of communication between the ports and the enlarged portion of the chamber when the piston is moved downwardly and means for reciprocating and rotating said piston.

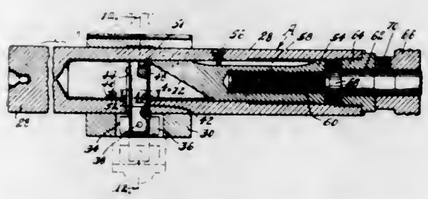
2,609,207
VALVE MECHANISM
Elmer Van Sickle, Rocky River, Ohio
Application June 6, 1947, Serial No. 753,024
20 Claims. (Cl. 277—20)

1. In a valve mechanism, the combination of a valve body having a pair of passages adapted for connection with opposite chambers of a fluid actuated motor, means in said passages in said valve body normally preventing the flow of fluid from said chambers inwardly through said passages whereby said motor is normally retained in a predetermined position, a valve member movable relative to said valve body and having a passage therein adapted for connection with a source of fluid and selectively with one of said passages in said valve body, means for connecting to exhaust the passage of said pair of passages in said valve body other than the passage connected with said passage in said valve member when one of said passages in said valve body is connected with



said passage in said valve member, and means responsive to pressure in said passage in said valve member for opening the first-named means in the passage of said pair of passages in said valve body connected with exhaust.

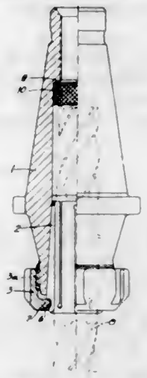
2,609,208
PISTON AND CONNECTING ROD ALIGNER
Thomas E. Brooks, Clarinda, Iowa, assignor to Lisle Corporation, Clarinda, Iowa, a corporation of Iowa
Application July 7, 1948, Serial No. 37,484
5 Claims. (Cl. 279—2)



1. In an arbor of the character disclosed, a stud having on its outer surface, and parallel to the axis of said stud, two line contact surfaces for contact with the inner surface of a bearing or the like, and a pin radially slidable in said stud and positioned opposite said two line contact surfaces for clamping said bearing against said line contact surfaces on said stud, and an elongated clamping element to provide a third line of contact, said clamping element being pivoted intermediate its ends in the outer end of said pin to allow the connecting rod bearing to locate unrestrictedly on said two line contact surfaces when said pin is moved radially outward relative to said arbor for contacting said clamping element with the connecting rod bearing.

2,609,209
CHUCK
Einar Perman, Eskilstuna, Sweden
Application September 20, 1949, Serial No. 116,796
In Sweden September 23, 1948
6 Claims. (Cl. 279—49)

5. A chuck assembly including a body portion having a bore therein, a single taper slotted collet adapted to be inserted in said bore and an annular retaining member threadedly engaging the body portion for securing said collet to the body portion, the said collet being provided with a continuous annular groove immediately adjacent the larger end of the collet and the said retaining member having a continuous annular flange adjacent the lower end thereof engaging said annular groove, the inner wall of said groove active at the tightening of the collet, having a larger contact area for said flange, viewed radially, than



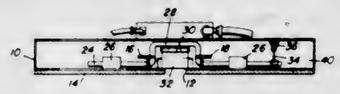
the facing outer wall of said groove which is active during the loosening of the collet, so that said collet provides the flange with a rather large tightening surface but at the same time a rather small loosening surface, whereby the collet, after it has been removed from the body portion by unthreading said annular retaining member from said body portion, is detachable from said annular retaining member by being slightly rocked aside therein.

2,609,210
SNOW OR WATER SKI DEVICE
Richard V. Jennings, Pickney, Mich.
Application March 27, 1948, Serial No. 17,515
1 Claim. (Cl. 280—21)



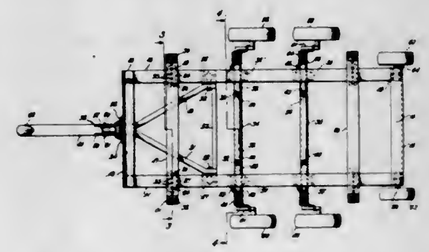
A ski device, comprising a pair of laterally-spaced elongated runners arranged substantially parallel to one another, a foot supporting structure mounted on each runner, a pair of spaced substantially parallel links connected to and extending between said runners, pivotal connecting devices arranged between said links and said runners, said pivotal connecting devices having universal joints with rotatable couplings connected between said runners and said links, said universal joints being constructed and arranged to effect free individual rocking of said runners relatively to one another in all directions, and a pair of control members having bent lower ends connected to and extending upward respectively from said supporting structures substantially to the hand level of an operator standing upon said supporting structures.

2,609,211
SAFETY LOCK FOR TRAILERS
James Murrill, San Francisco, Calif.
Application August 7, 1950, Serial No. 178,083
4 Claims. (Cl. 280—33.05)



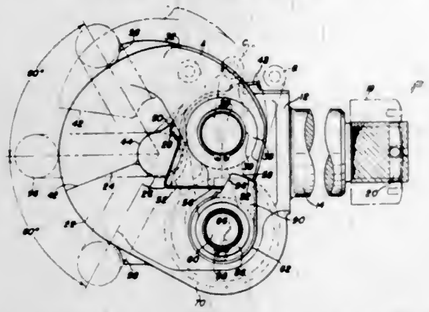
1. For use with a vehicle having a bed and a pair of guides on the bed for slidably receiving a fifth wheel pin, a safety lock for the pin comprising a horizontally disposed shaft rotatably supported on the bed and extending transversely of said guides at the front ends thereof, a vertically swingable member carried by and rotatable with said shaft, and a hinge attached to said member and extending below the shaft to be engaged by the fifth wheel pin as the pin is moved rearwardly in the guides, said pin engaging the hinge to swing the member forwardly behind the pin to prevent accidental retraction of the pin.

2,609,212
TRAILER FOR FARM TRACTORS
Dallas W. McMurtrie, Veedersburg, Ind.
Application October 24, 1950, Serial No. 191,859
1 Claim. (Cl. 280—33.2)



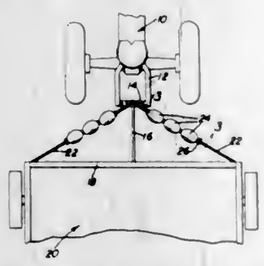
A trailer adapted to be drawn by a tractor, comprising a main frame, a plurality of bed-supporting bolsters adjustably secured to said main frame, a Y-shaped draw bar having the ends of its diverging legs pivotally connected to the under side of said main frame at a point approximately one-third of the distance from the front end to the back end of said frame whereby tilting of the trailer frame for dumping a load carried thereby may be facilitated, releasable connecting means for locking the front end of said frame in fixed relation to said draw bar to preclude tilting of said main frame when drawing force is applied to said draw bar, a pair of spaced tubular axle-supporting members connected to the under side of said main frame, one of said members positioned a short distance forwardly of the center of said frame and the other of said members positioned a short distance rearwardly of the center of said frame, crank stub axles, one of said stub axles positioned in each end of said tubular members, a wheel mounted on the outer end of each crank stub axle, a coil spring surrounding the portion of each stub axle outwardly of the tubular member, and anchored at one end to the adjacent end of the tubular member, the other end of said coil spring engaging the intermediate arm of said crank axle to resist movement of the wheel mounted on the associated stub axle toward said main frame.

2,609,213
PINTLE HOOK
Lawrence R. Buckendale and Eli V. Elconin, Detroit, Mich., assignors to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application October 7, 1948, Serial No. 53,262
7 Claims. (Cl. 280—33.15)



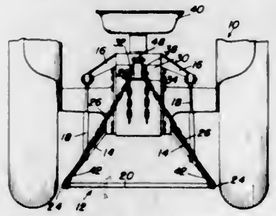
2. A pintle hook comprising a body member having a stationary hook section, a complementary hook section having spaced arms straddling said body member and pivotally mounted thereon, each of said hook sections having a coupling ring receiving seat, said arms having forwardly projecting nose portions receiving impact from a coupling ring to move the pivoted hook section to its closed position, means for limiting movement of the pivoted hook section to open position, and latching means for said pivoted hook section comprising a rock shaft mounted in the body member, latch tongues fixed to said shaft at opposite sides of the body member coacting with recesses on the rearward sides of the respective arms of said pivoted hook section, and spring means resiliently engaging one of said latch tongues biasing said rock shaft and latch tongues in one direction to normal position latching the pivoted hook section against movement from its closed position, and said latch tongues coacting with said arms under the action of said spring means to yieldingly urge the pivoted hook section to its full open position.

2,609,214
ANTICHAFING TRAILER HITCH
Donald Vos, Pella, Iowa
Application February 8, 1950, Serial No. 143,070
1 Claim. (Cl. 280—33.44)



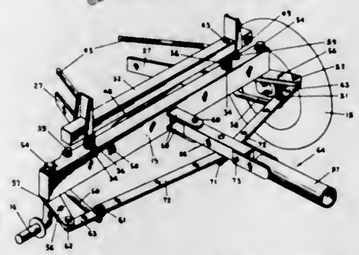
In a trailer vehicle having a drawbar and a coupling member secured to said drawbar and adapted to be detachably secured to a draft bar on a tractor vehicle, the improvement consisting of an anti-chafing means comprising roller elements rotatably secured on a cable, said cable being terminally secured to said drawbar and said coupling member, said roller elements comprising a plurality of adjacent tubular members freely rotatably on said cable, and an ellipsoidal shaped member secured to each of said tubular members, and stop means engaging said cable limiting the position of said tubular members, said stop means comprising a stop member having screw means threadedly mounted therein for selective engagement with said cable.

2,609,215
STABILIZER FOR TRACTOR POWER LIFTS
Hilmer E. Hancock, Dent, Minn.
Application December 28, 1950, Serial No. 203,136
1 Claim. (Cl. 280—33.44)



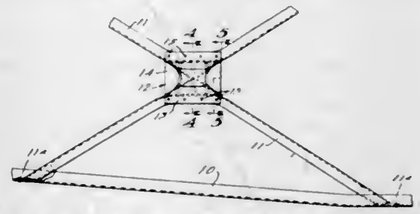
The combination of a tractor frame having an upstanding transversely apertured lug at the rear end thereof, a power lift including a pair of rearwardly divergent draw bars pivoted at the front ends thereof to said frame at points spaced downwardly from said lug, a transversely extending hitch bar extending between and connected to the rear ends of said draw bars, and lift stabilizing means comprising a wire yoke including a transverse intermediate portion, a pair of convergent side portions, a pair of substantially U-shaped keeper seats provided at the junctions of said side portions with the ends of said intermediate portion, and a pair of spaced and coaxially apertured ears at the ends of said side portions, said ears straddling said lug, a pin extending through said lug and ears, and a pair of rearwardly and downwardly divergent chains connected at their rear ends to the opposite ends of said hitch bar, forward end portions of said chains having links individually and selectively engageable with the respective keeper seats of said yoke.

2,609,216
SHARP TURN STEERING APPARATUS FOR VEHICLES
Eric M. McElhinney, Dysart, and Theodore A. Podbajsky, Traer, Iowa
Application June 6, 1947, Serial No. 752,926
5 Claims. (Cl. 280—103)



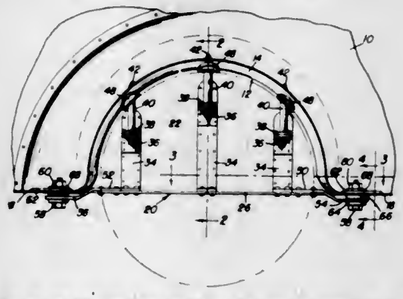
5. A vehicle forecarriage comprising an axle, ground wheel spindles journaled vertically in the ends of said axle and having laterally extending actuating arms, a steering member pivoted to the axle centrally between the arms and connected to the arms by respective pairs of links, the links of each pair being joined by pivot connections, levers corresponding to said pairs of links connecting said pivot connections rearwardly to the axle, with said levers being arcuately swingable in a horizontal plane, and a pivot connection on said steering member for pivotally connecting together the inner ends of said pairs of links, with the pivot connection joining each pair of links being spaced farther from the axle than the outer ends of said pair of links, the pivot connection for the inner ends of said pairs of links being spaced farther from the axle than the corresponding pivot connection joining each pair of links, and with each pair of links forming complementary angles of substantially 180° with a corresponding lever, when said wheel spindles are in longitudinal alignment with said axle.

2,609,217
REINFORCED CENTRAL TUNNEL FOR X-MEMBER OF CHASSIS FRAME
Werner G. Hess, Dearborn, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application September 7, 1950, Serial No. 183,490
10 Claims. (Cl. 280—106)



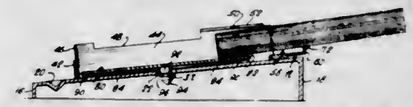
1. In a vehicle chassis frame having longitudinal side members, an X-member therefor comprising a pair of substantially V-shaped elements located between said side members, each said element having a pair of legs secured to opposite side members, and means connecting said V-shaped elements together including plate members rigidly attached to the top and bottom of said V-shaped elements at the apices thereof, a tubular member between said plate members and said elements rigidly connected to the plate members, and continuously extending webs on said tubular member in substantially X-relationship, with each arm of the X substantially aligned with a leg of the V-shaped elements.

2,609,218
WHEEL SHIELD SUPPORT
Lyle S. Van Antwerp, Washington, D. C.
Application March 16, 1950, Serial No. 149,928
6 Claims. (Cl. 280—153)



5. In a vehicle fender shield including a wheel opening and an inturned flange about the opening, a wheel shield device comprising a closure member supported in registry with the opening and including an inner face, a plurality of reinforcing strips fixed to the inner face of said closure member, angle brackets secured to said strips and including horizontal flanges, an upstanding hollow and resilient finger supported on the horizontal flange of each angle bracket, said fingers including rounded upper end portions, said inturned flange including openings, and resilient sleeves secured in said openings and yieldingly engaging the upper end portions of said fingers.

2,609,219
LOOSE LEAF PAPER SAFE AND DISPENSER
Herbert W. Marano, Brooklyn, N. Y., assignor to Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts
Application December 1, 1950, Serial No. 198,561
3 Claims. (Cl. 281—44)



1. A loose leaf dispensing device of the character described comprising a compartment having a bottom wall, front and rear walls and side walls, a stop member projecting inwardly from the top edge of at least one of said walls, and said bottom wall having an aperture formed therein, a platform disposed for vertical movement within said compartment, spring means urging said platform upwardly, a plunger depending from said platform and in substantially axial alignment with said aperture, said plunger having a substantially conically shaped lower end and a peripheral groove formed above said lower end, and a resilient wire element secured at one end thereof to the under face of said bottom wall and overlying said aperture and normally axially offset relative to said plunger, the unsecured end of said wire element being provided with a depending finger portion.

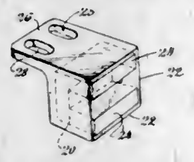
2,609,220
TURNBUCKLE SAFETY-LOCKING SLEEVE AND COMBINATION INVOLVING SAME
James F. Spielman, Torrington, Conn.
Application March 29, 1949, Serial No. 84,185
4 Claims. (Cl. 287—60)



1. A device for safety-locking a turnbuckle assembly, said turnbuckle assembly comprising a tubular barrel of circular cross-section, a pair of oppositely threaded male screw members screwing oppositely each in one end of said tubular barrel, said tubular barrel having a diametric hole through the longitudinal center thereof, said pair of oppositely threaded male screw members each having a length of exterior regular hexagonal cross-section: said device combining a pair of similar sleeves fitting oppositely over the named turnbuckle assembly, said pair of sleeves meshing with each other over the midpoint of the named turnbuckle barrel by a plurality of evenly divided longitudinally projecting dogs around the circumference of each of said pair of sleeves, said dogs each having a semi-circular depression on either projecting

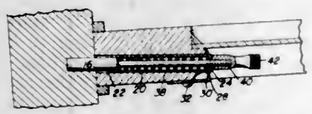
edge thereof, said pair of sleeves each having interior longitudinal flats of regular hexagonal cross-section at their oppositely projecting ends, said interior longitudinal flats of regular hexagonal cross-section in respective sleeves of said pair of sleeves slidably and non-rotatably engaging the said length of exterior regular hexagonal cross-section on a respective member of the named pair of oppositely threaded male screw members of the named turnbuckle assembly, and a breached circular elastic metal band having a diametric pin disposed thereacross, said diametric pin having a free end, whereby said pin may be inserted through said pair of sleeves by a hole jointly formed by the said semi-circular depressions on the projecting sides of the said longitudinal dogs around the circumference of each of said pair of sleeves and through the diametric hole in the named turnbuckle barrel, and whereby said circular elastic metal band urges itself around the periphery of said pair of sleeves at their mutual meshing point.

2,609,221
MAGNETIC DOOR CATCH
Carl E. Schultz, St. Joseph, Mich., assignor to Laboratory Equipment Corporation, St. Joseph, Mich., a corporation of Michigan
Application August 6, 1949, Serial No. 108,894
1 Claim. (Cl. 292—70)



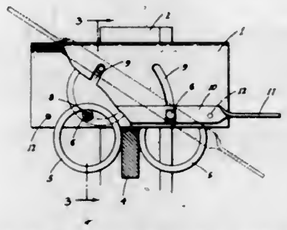
As an article of manufacture, a magnetic door catch which consists of a U-shaped slug providing a pair of side-by-side flat pole surfaces in the same plane, said pole surfaces being separated by a void, said slug being formed of a magnetic material inherently having a rough surface of poor machinability such as Alnico, for instance, and a case for said slug formed of a moldable substance of the type affording the smooth and controllable surface characteristics of die cast metal, plastic resins, and the like, the case material filling the void between the poles and completely enclosing said slug excepting for the pole faces, said case having a mounting tab formed thereon at the end opposite said pole faces.

2,609,222
WINDOW STOP
Arthur Severson, Milwaukee, Wis.
Application January 31, 1950, Serial No. 141,425
1 Claim. (Cl. 292—175)



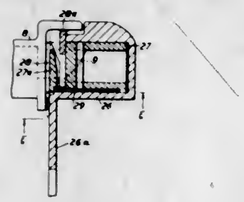
A window stop for locking a window sash to a window frame comprising a cylindrical sleeve having an apertured end and adapted to be inserted in an aperture in said sash, a spring projected shaft in said sleeve having an end slidably extending out of said apertured end and its other end adapted to be projected into an aperture in said frame, a knob on the first named end of the shaft engaging said apertured end to limit projection of said shaft, and means to secure said sleeve in the aperture in the sash in different longitudinally adjusted positions, comprising longitudinally spaced notches in said sleeve, and a bifurcated bracket engageable selectively with said notches in straddling relation to said sleeve and attachable to said sash to hold said sleeve in longitudinally adjusted position.

2,609,223
GATE LATCH
William B. Adams, Turlock, Calif., assignor of one-third to Gordon Hallmark and one-third to Oliver K. K. Nelson, both of Turlock, Calif.
Application August 27, 1951, Serial No. 243,770
4 Claims. (Cl. 292—299)



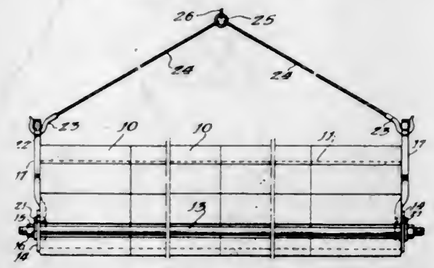
1. A gate latch comprising an inverted channel adapted to be secured transversely to a gate post in position above an end part of the gate when the latter is closed, a pair of vertically movable rings disposed in spaced relation in the channel and normally depending below the latter on opposite sides of said end part of the gate, transverse lifting pins in the channel from which corresponding rings are suspended, the outer side of the channel having arcuate slots through which the lifting pins project, each slot being concentric to the lower end portion of the other slot, and a release lever extending lengthwise of said outer side of the channel and said lifting pins being secured to the lever.

2,609,224
DOOR LATCH AND ADJUSTABLE KEEPER
Archibald Robertson Mitchell, Hornchurch, England
Application February 27, 1948, Serial No. 11,367
In Great Britain November 11, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 11, 1966
5 Claims. (Cl. 292—341.18)



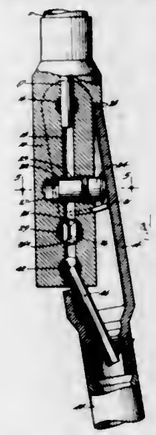
1. In a door latch, a bolt casing, a bolt reciprocably mounted in said casing to alternately project and retract an end portion with respect to such casing, a keeper casing, a keeper for the reception of the projected end portion of said bolt and adjustably mounted in the keeper casing, means yieldably resisting adjustment of the keeper from positions of adjustment within its casing, and cam-follower and cam components respectively upon the bolt casing and said keeper and cooperable for adjusting the keeper within its casing to effect a desired alignment status of the keeper with respect to the bolt casing pursuant to juxtapositioning of said casings for inserting the bolt into the keeper.

2,609,225
SLAB HANDLING DEVICE
Jean D. Mollendorf, Park Ridge, Ill., assignor to Illinois Prestcrete Co., Chicago, Ill., a corporation of Illinois
Application September 27, 1947, Serial No. 776,433
2 Claims. (Cl. 294—67)



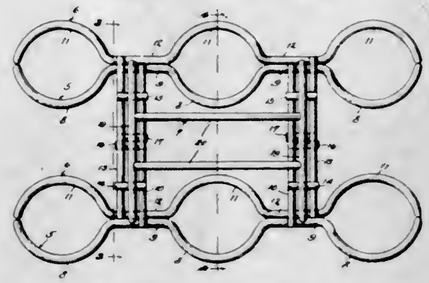
1. For use in lifting an assembly of blocks arranged end to end with an opening provided in the ends of the assembly, said blocks being held together by longitudinal means, the combination of a plate removably secured to one end of and adjacent to the lower region of the assembly and having an inner face spanning said opening, an upstanding lifting arm having a lower portion adapted to fit into the opening and engage the inner face of the plate and an upper portion adapted to engage the end of the block assembly, the plate having an aperture therein, and a lug extending outwardly from the face of the arm that engages the face of the plate, the lug being adapted to enter the aperture.

2,609,226
STRAIGHT BORE HYDRAULIC KNUCKLE
Clarence P. Young, Bellflower, Calif.
Continuation of application Serial No. 560,167, October 24, 1944. This application March 8, 1947, Serial No. 733,335
13 Claims. (Cl. 294—86)



2. A well fishing tool comprising a body attachable to a run-in string of pipe, said body having a straight passage therethrough for the discharge of fluid, means for beaning back the fluid in said passage to develop a pressure therein, an arm pivotally mounted upon said body, means responsive to the beaned back pressure for swinging the arm relatively to the body, said beaning means being openable, means for locking the beaning means in fully open position, and means for conducting fluid discharged through said passage from said body through said arm.

2,609,227
BOTTLE CARRIER
Edward C. Medill, Snohomish, and Frank P. Hewitt, Monroe, Wash.
Application January 25, 1950, Serial No. 140,396
4 Claims. (Cl. 294—87.26)



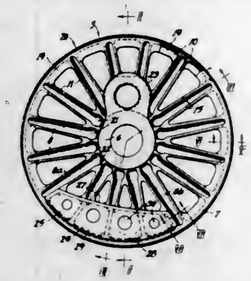
1. A bottle carrier comprising co-planar frame sections spreadable in their common plane, said sections being proportioned to grip bottles between them when drawn together and to release the bottles when spread apart, and a rigid handle section having fixedly connected downwardly converging arms extending through said plane, the outer surfaces of said arms engaging the frame sections to bias them apart when the handle section is forced downwardly and inner surfaces of the arms biasing the frame sections toward each other to draw them together when the handle section is pulled upwardly.

2,609,228
OLIVE TONGS
Walter E. Bair, Washington, D. C.
Application December 6, 1948, Serial No. 63,721
1 Claim. (Cl. 294—106)



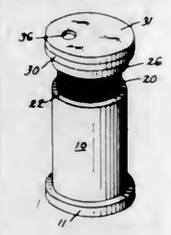
Tongs comprising pivotally connected arms, the free ends of the arms being forked to grip an article therebetween, a finger piece having flat sides, formed on one end of one arm, said finger piece having a thumb opening, an elongated finger piece embodying a plate secured to the opposite arm, said plate being disposed at an oblique angle with respect to the side edges of said first-mentioned finger piece, the ends of said plate terminating a substantial distance beyond the side edges of said flat finger piece, the adjacent flat sides of said finger pieces being disposed opposite to each other, said plate having openings for the reception of the ends only of the fingers of the hand in gripping the tongs and holding the tongs when removing an article with the tongs, and a spring member operating between the finger pieces, normally urging the forked ends of the arms together.

2,609,229
CAST WHEEL OF ROLLING STOCK
Frederick Charles Paynter, Moonee Ponds, Victoria, Australia, assignor to The Steel Company of Australia Proprietary Limited, Coburg, Victoria, Australia
Application January 7, 1948, Serial No. 977
In Australia February 17, 1947
5 Claims. (Cl. 295—6)



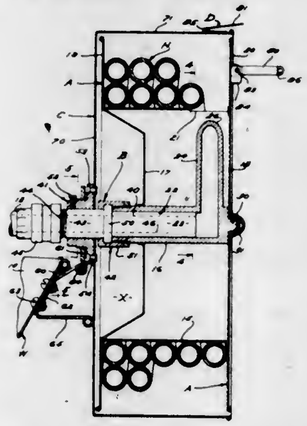
1. An integrally cast locomotive wheel center comprising a channel rim having a circumferential web portion and inwardly extended flanges, an axle hub, a crank pin hub, spokes convergently tapering from said hubs to the rim and merging into the edges and sides of the flanges and into the circumferential rim portion, longitudinal tapering recesses in said spokes, enlargements of said recesses adjoining the axle hub, radial webs separating the enlargements, a box section counterbalance casing opposed to the crank pin hub and extending inwardly from the channel rim, lateral walls at the opposite sides of the counterbalance casing, a portion of the channel rim comprising the outer wall of said casing, a substantially chordal wall comprising the inner side of said casing, shortened recessed tapering spokes extending from the axle hub to the counterbalance casing and united with the substantially chordal wall, and transverse webs in the counterbalance casing located in alignment with and comprising extensions of the shortened recessed tapering spokes.

2,609,230
WICK TYPE VAPORIZER
Delbert S. Raleigh, Reno, Nev.
Application June 6, 1950, Serial No. 166,461
7 Claims. (Cl. 299—20)



1. A wick-type vaporizer having a hollow open-topped, walled base member; a hollow open-bottomed walled top member loosely fitted to telescope within said base member; a tubular wick fitted between the walls of said telescoped members, secured at its upper end to said top member and at its lower end to said base member, said wick between its secured ends being longer than the vertical wall length of said top member and shorter than the combined vertical wall lengths of said base and said top members, whereby when said base and top members are vertically extended said wick will limit their relative movement, and when said members are telescoped, the surplus length of wick will be accommodated within said hollow members.

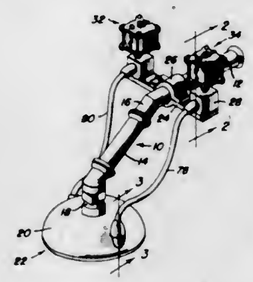
2,609,231
HOSE CARRIER
Harvey B. Crawford, La Canada, Calif.
Application March 8, 1948, Serial No. 13,555
6 Claims. (Cl. 299—53)



1. A hose carrier including, a reel, a housing, and a mounting rotatably supporting the reel within the housing and carrying the housing in a fixed position, the housing including, a cylindrical shell and a flat inner end wall closing the inner end of the shell, the reel including, a drum within the shell and on which the hose is wound, flanges retaining the hose on the drum at the ends thereof, the flange at the outer end of the drum being a flat disc-shaped plate completely closing the outer end of the drum and forming a closure for the outer end of the housing shell, the flange at the inner end of the drum being concave inward of the drum, and a centrally located flow conducting hub receiving flow at one end and having its other end fixed to the first mentioned flange with an arm extending to the drum and receiving the hose at the drum, and the mounting including a single tubular center receiving fluid at its outer end and having a spindle portion rotatably supporting the hub and supplying fluid to the hub for flow to the hose through the arm, there being a hub retaining part on the spindle within the cavity formed by the flange at the inner end of the drum.

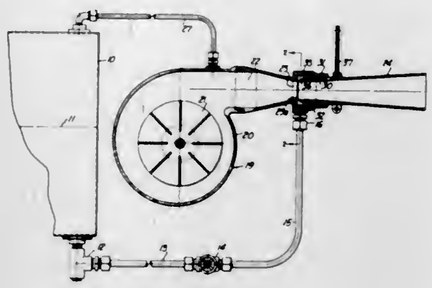
2,609,232
SHOWER
Flora L. Taulman, Long Beach, Calif.
Application November 14, 1949, Serial No. 126,977
3 Claims. (Cl. 299—84)

1. An attachment for use with a water pipe and shower head comprising a bracket adapted to be secured to a water pipe, a receptacle having top and bottom walls, the top wall having a guide opening therethrough, and the bottom wall having an outlet opening therethrough, a valve stem slidable through the guide opening and having a valve at its lower end for controlling the flow of a material through the outlet opening, a compression spring surrounding the valve stem and seated against the underside of the top wall for urging downward movement of the valve stem to close the outlet opening, a dish-shaped valve element secured adjacent the lower end of the valve stem for engagement with the base to close the outlet opening, the lower end of the compression spring seated on said valve element, means disposed above the top wall to raise the valve stem, a receptacle mounting block carried by the



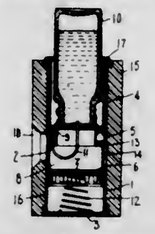
bracket having an L-shaped passage, said passage including a vertical branch the upper end of which is internally threaded, said bottom wall having a depending internally threaded portion surrounding the outlet opening that is threadingly received in the vertical branch of the passage, and conduit means for establishing communication between said passage and the interior of a shower head.

2,609,233
VAPOR SPRAY SYSTEM
Lloyd C. Stearman, Dos Palos, Calif.
Application August 3, 1948, Serial No. 42,220
1 Claim. (Cl. 299—86)



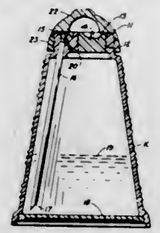
In a vapor spray apparatus, a sealed tank for containing the liquid to be sprayed, means to produce a constant air pressure, fluid flow connecting means to apply said air pressure to the top of said tank from said means, a quick cut-off discharge nozzle comprising a pair of truncated cones, one of said cones being stationary and providing a threaded body member at its smaller diameter end for engagement with the smaller diameter end of said second cone, said second cone being movable thereby into and out of engagement with the smaller inner diameter of said stationary cone, said cones forming a Venturi tube having an adjustable and closable suction orifice, and fluid flow means for connecting the bottom of said tank to said orifice.

2,609,234
ATOMIZER
Rome C. Seyforth, Shelby, Ohio, assignor to The Shelby Metal Products Company, Shelby, Ohio, a corporation of Ohio
Application December 14, 1948, Serial No. 65,147
6 Claims. (Cl. 299—88)



5. In combination, an atomizer comprising a cylindrical body provided with a lateral discharge opening between its ends, a container for liquid in said body provided with a discharge orifice registering with such opening in said body, and an air compressing means in said body provided with an outlet passage for directing air across such orifice and toward such opening and with an actuator extending exteriorly of said body through one end of the latter, a case surrounding said body provided with a hole therethrough for receiving said body therein with said actuator projecting through such hole in said case and with a lateral opening intersecting such hole, said case and body, together with a member detachable from one of them, defining opposed laterally overlapped surfaces for longitudinally positioning said body in said case with such lateral openings in alignment.

2,609,235
DISPENSING AND ATOMIZING CONTAINER
Leo D. Reimann, Salem, Oreg.
Application June 1, 1949, Serial No. 96,543
2 Claims. (Cl. 299—90)

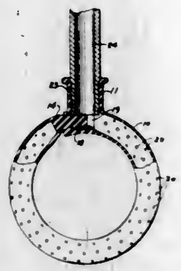


1. A container of resilient material having a filler cap threaded into the top end thereof, a tube extending downwardly through the top of said container to a point near the bottom thereof, said tube communicating with the exterior of the container, an air duct in the top of said container intersecting the outlet of said tube, a lip formed above said outlet and air duct, and a cap threaded on the top of said container adapted to bear upon said lip and close said outlet.

2,609,236
MOP HOLDER AND FOUNTAIN SPRAY DEVICE
Louis Myshock, Detroit, Mich.
Application April 4, 1951, Serial No. 219,292
4 Claims. (Cl. 299—112)

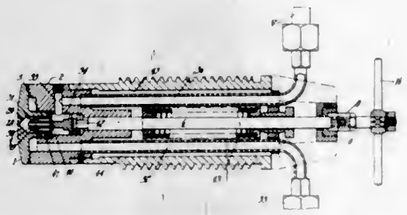
2. In combination, a mop holder having a shank provided with an internally threaded

socket and being provided on one side with a lateral slot opening into said socket from outside, the bottom of the slot being indented and facing the interior of said socket, an integrally formed flexible body radially extending from the shank at its opposite side, said body describing a loop, the body being tubular and provided all along its length with a plurality of holes in its wall and terminating with a solid end adapted



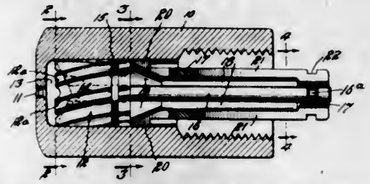
to enter said slot, said end having an indented surface for engagement with the indented bottom of the slot, and a tubular handle threaded at one end for entry into said socket, said end of the handle being adapted to bear against the end of the flexible tubular body within the slot to cause the indentations of said end of the flexible body to interlock with the indentations within the slot, the interior of the socket opening into the interior of said flexible body.

2,609,237
SPRAYER STOP VALVE
Robert Francis Darling, Monkseaton, England, assignor to The Parsons and Marine Engineering Turbine Research and Development Association, Wallsend, England
Application February 24, 1947, Serial No. 730,226
In Great Britain May 7, 1946
4 Claims. (Cl. 299—118)



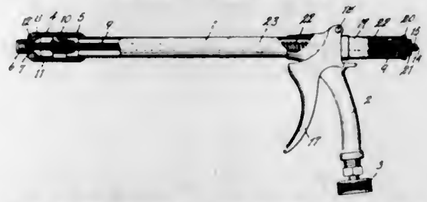
1. A stop valve for fluid comprising in combination a sprayer body, a fuel inlet passage therein, a valve stem in said sprayer body, a valve on said valve stem, a closure member for said sprayer body incorporating a seating for the tip of said valve, a delivery nozzle in said closure member, a return or liquid spill passage for said fluid within said sprayer body, a central axial passage in said valve and stem terminating in a lateral duct communicating with the return passages when the valve and stem are in a retracted position, a bush surrounding the valve and stem and cooperating with the valve to close off flow around the valve and stem when the valve is in such retracted position, and cooperating with the stem to close off the lateral duct when the valve tip is seated on the said seating, the valve stem having grooves for permitting flow through the bush to the return passage when the valve tip is so seated.

2,609,238
SPRAYER NOZZLE
Clare Anderson, Kinnelon, N. J.
Application February 21, 1950, Serial No. 145,459
2 Claims. (Cl. 299—120)



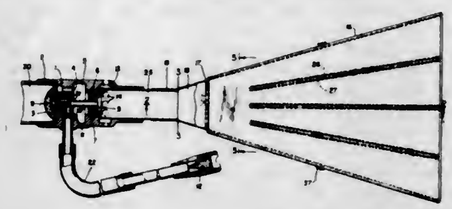
1. A sprayer nozzle comprising a housing, a twirl member within the housing having one end opposite the discharge orifice and spaced from the end of the housing to provide a chamber, said twirl member having portions extending within said chamber with spaces between said portions for retarding the movement of portions of the liquid to be sprayed, a resilient ring circumferentially embracing the twirl member and engaging the interior wall of the housing for removably holding it in place, and a rod centrally secured to the twirl member and extending to the opposite end of the housing for enabling the withdrawal of the twirl member from the housing.

2,609,239
SPRAY GUN FOR FIRE APPARATUS AND THE LIKE
Benjamin D. Barton, Battle Creek, Mich., assignor to American Marsh Pumps, Inc., Battle Creek, Mich., a corporation of Michigan
Application December 5, 1949, Serial No. 131,117
7 Claims. (Cl. 299—150)



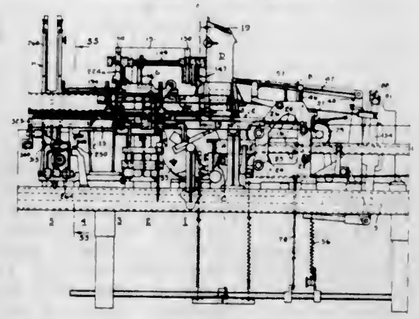
1. In a structure of the class described, the combination of a barrel provided with a liquid supply connection and with a chambered head provided with an elongated discharge port and with a rearwardly facing valve seat at the inner end of the port, the end wall of the chamber being conical and merging into the valve seat, an eduction tube annularly spaced from said barrel to provide an annular passageway for the liquid reciprocatingly supported in said barrel in axial alignment with said port and having a conical forwardly facing control valve coacting with said valve seat, and a tapered nozzle projecting beyond the valve and centrally into said port in spaced relation to the walls thereof during a substantial part of the movement of the valve to and from the seat but being entirely withdrawn therefrom when the valve is in fully opened position, said eduction tube having an air inlet opening exteriorly of the barrel, an outwardly seating spring biased check valve for said air inlet, the vacuum in the eduction tube resulting from the flow of liquid around the nozzle when the valve is partially opened inducing air flow through the eduction tube, the pressure of the liquid when the valve is fully opened acting to seat the air inlet check valve, spring means acting to seat said control valve, and means for manually opening the control valve.

2,609,240
CONTROLLED DISCHARGE FOAM NOZZLE
James Faulkner, Nutley, and August Toth, Clark, N. J., assignors to Pyrene Manufacturing Company, Newark, N. J., a corporation of Delaware
Application December 13, 1949, Serial No. 132,706
16 Claims. (Cl. 299—154)



1. A fan-shaped play-pipe designed for connection to a source of air-foam for projecting said air-foam for fire extinguishing purposes, said play-pipe having an input orifice at its narrow end to receive the foam constituents from the source thereof and having a rectangular output orifice through which fully-formed air-foam may be discharged, the width of said orifice being large relative to its height and having longitudinally positioned vanes therein to distribute the flow of foam substantially uniformly throughout the width of the discharge orifice of the play-pipe, the leading edge of said vanes being at substantially the same distance from the input orifice of the play-pipe.

2,609,241
BRUSHMAKING MACHINE
Melvin J. First, Louisville, Ky., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York
Application May 15, 1950, Serial No. 161,955
71 Claims. (Cl. 300—2)



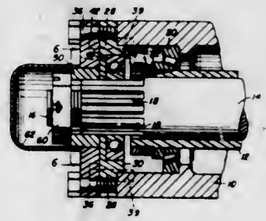
1. In a brush machine, a knot forming device, means for partially spreading out the knot to suit the width of the ferrule, means for inserting the partially spread knot in a ferrule so that the butt portion projects from the rear of the ferrule, mechanism for opening said butt portion and inserting plug means therein, means intermittently operated for feeding a succession of said ferrules and projecting knots from station-to-station of a series of stations to said plug inserting mechanism, clamping means for alternately engaging and releasing a plurality of said projecting knots, and operating mechanism for said clamping means to cause said means to engage said knots to complete the spreading of the knots to produce uniform distribution of the bristles in the respective ferrules and move with the knots from station-to-station to keep the distributed knots in alignment with the ferrules until the insertion of the plug means, said operating mechanism causing said clamping means to release said knots at the end of each feeding movement.

2,609,242
BRUSH ELEMENT AND METHOD OF MANUFACTURE
Brooks E. Nelson, Cleveland, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 13, 1948, Serial No. 38,373
29 Claims. (Cl. 300—21)



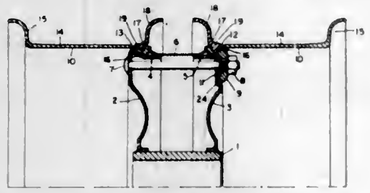
1. In the manufacture of brush strip having a relatively flat layer of brush material extending from a channelform back, the steps of continuously turning up teeth from both edges of a metal strip, securing the non-tooth bearing side of such strip to another metal strip of substantially the same width by spot-welding, advancing the resultant composite backing strip longitudinally, depositing a layer of stranded brush material transversely of the face of such strip from which such teeth project, placing a wire retaining member on such material between the two rows of teeth lengthwise of such backing strip, and forming such composite backing strip into generally U-shape cross-section with such wire secured beneath such teeth to hold such brush material firmly seated in the resultant channelform back.

2,609,243
HUB STRUCTURE
Louie H. Ponnequin, Honolulu, Territory of Hawaii
Application January 2, 1948, Serial No. 9
4 Claims. (Cl. 301—1)



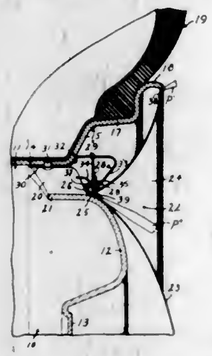
1. In a vehicle including a splined axle, means transposing a freely rotating wheel on said axle to a driving wheel comprising a first plate secured within the hub and supporting the axle, said first plate having the splined portion of said axle extending therethrough, a second plate positioned around the splined portion of the axle, means for fastening said plates together, a collar interposed between the said second plate and the axle, means for drivingly connecting said axle and said collar, and means for drivingly connecting said collar and said second plate.

2,609,244
VEHICLE WHEEL
Homer L. Mueller, Cleveland, Ohio, assignor to The Cleveland Welding Company, Cleveland, Ohio, a corporation of Ohio
Application September 28, 1948, Serial No. 51,535
5 Claims. (Cl. 301—13)



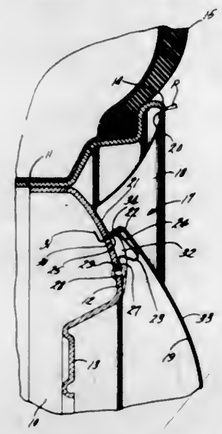
3. A wheel comprising a central hub, a pair of axially spaced flexible rings having their inner edges fixed on said hub and provided with peripheral flanges extending axially toward one another, one ring being enlarged at the juncture of its peripheral flange therewith to provide a seat facing toward such peripheral flange, one rim fitted over said one ring and provided with an inturned seat at one end engaged with the seat on said one ring, a bolt extending axially from said one ring through the other ring, a nut threaded on said bolt, a lug movable on said bolt by said nut, said lug being located adjacent that side of said other ring which is remote from the peripheral flange thereof and provided with a seat disposed radially outward of such peripheral flange and facing the seat on said one ring, another rim fitted over said other ring provided with an inturned seat at one end engaged with the seat on said lug, and a spacer encircling such peripheral flanges and disposed between those ends of said rims which are provided with inturned seats, said rings having their outer portions free to be flexed toward one another upon turning of said nut in a direction to cause such seats to move toward one another.

2,609,245
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application March 29, 1947, Serial No. 738,079
11 Claims. (Cl. 301—37)



1. A wheel structure including multi-flange tire rim and wheel body members, one of the wheel members having resilient cover retaining means thereon, the wheel body member having an annular groove adjacent to the juncture with the tire rim member, and a cover assembly comprising an inner circular cover member having a radially outer marginal portion thereof formed to provide a generally radially outwardly and axially outwardly opening groove and a coincident generally axially inwardly extending annular rib seated in the groove of the wheel body with the adjacent radially inner portion of said outer marginal portion of the inner cover member resting against the wheel body, and an outer cover member for concealing the tire rim and having an inner marginal rearwardly turned bead seated in said groove of the inner cover member and engaged by the retaining means on the wheel to hold the cover members in assembly, said inner cover member in and adjacent to said groove being free of any retaining engagement with said bead so that the inner cover member is held in the assembly solely by snap-on, pry-off engagement with said resilient cover-retaining means, said radially inner area of the outer margin of the inner wheel-body-engaging cover member serving as a pry-off fulcrum for a pry-off tool employed to detach the outer cover member.

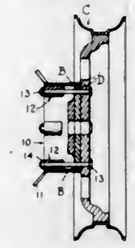
2,609,246
WHEEL COVER
George Albert Lyon, Detroit, Mich.
Application April 1, 1947, Serial No. 738,512
1 Claim. (Cl. 301—37)



In a wheel structure including a multi-flange tire rim and a wheel body including an annular reinforcing nose bulge and secured to the base flange of the tire rim and defining with the axially outer flanges of the tire rim a relatively deep annular axially outwardly opening groove at the radially outer-side of which the axially outwardly extending terminal flange of the tire rim provides a boundary rim for the groove, a one-piece sheet metal cover comprising a trim ring portion and a hub cap simulating portion and an intermediate annular reinforcing and attachment rib integrally joining the portions of the cover in one piece, said intermediate attachment rib comprising an annular seating area generally obliquely complementary to the adjacent opposing radially outer side of the nose bulge and seating fully thereagainst and a generally radially and axially outwardly extending flange at the radially inner edge of said seating area and providing at the radially inner side thereof a shoulder engageable by spring clips and cover centering means on said nose portion of the wheel body, the trim ring portion extending from the radially outer edge of said seating area on a convex curvature generally radially and axially outwardly in completely

spaced relation to the tire rim and having its radially outer margin aligned with the radial plane of the tire rim terminal flange extremity and having a marginal underturned reinforcing flange with the juncture of the reinforcing flange with the remainder of the trim ring portion providing the edge extremity of the trim ring portion and lying in slightly spaced relation radially inwardly from the tire rim terminal flange for reception of a pry-off tool between said edge and the terminal flange, the radially outer margin of the trim ring portion and the terminal flange of the tire rim affording a pocket in the space therebetween, and the extremity of the terminal flange of the tire rim protecting said edge against curbing damage and the like while affording a convenient fulcrum for the pry-off tool, said intermediate attachment rib strongly reinforcing the inner margin of the trim ring to withstand pry-off force without damage.

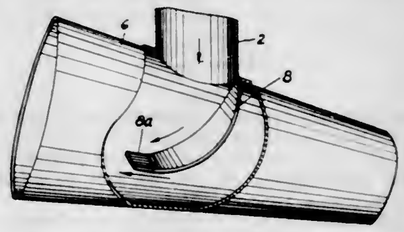
2,609,247
DEVICE FOR ATTACHING AUXILIARY WHEELS TO TRACTORS
Lynn B. Carter, Grand Forks, N. Dak.
Application April 21, 1949, Serial No. 88,704
3 Claims. (Cl. 301—38)



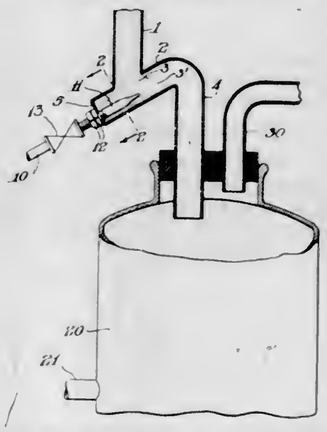
1. A device for attaching an auxiliary wheel to a tractor road wheel of the type having round bolt holes radially spaced about the center of the road wheel and a flange extending outwardly from the surface of said wheel outwardly of said bolt holes, as well as to a tractor road wheel of the type having a plurality of T-shaped lug holes radially spaced about the center of the wheel, said device comprising an open ended cylindrical drum, a plurality of individual spokes radiating from one edge of said drum and adapted to be secured at their outer extremeties to the rim of an auxiliary wheel, and axial bolt channels secured to the inner surface of said drum, the diameter of said drum being such that its inner edge is adapted to fit snugly about the flange of a flange-carrying tractor wheel so as to grip said flange, and both inner and outer edges of said drum intersect the lug holes of a tractor wheel of the same size having lug holes, so that the ends of said bolt channels register with the innermost portions of said lug holes while the outermost portions of said lug holes extend radially beyond the outer edge of said drum.

2,609,248
APPARATUS FOR HANDLING FINELY DIVIDED SOLID MATERIALS
Carl E. Kleiber, Irvington, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 13, 1948, Serial No. 14,764
4 Claims. (Cl. 302—36)

1. An apparatus for discharging a high density mass of finely divided solid material into a flowing stream of a fluid material, comprising a conduit injector member having an outlet and an inlet to said member for a fluid material, a conduit element for finely divided solid material having a discharge end portion opening directly into said injector member and secured thereto in fluid-tight relation intermediate the outlet thereof and said inlet for fluid material, said portion having an upstream edge and a downstream edge relative to fluid flow through said injector member, a distributor element internally of said injector member, at least one edge portion of said element conformed to the inner wall surface of said injector member and secured thereto in fluid-tight relation independently of said conduit discharge end portion, said element extending from a point adjacent the upstream edge of said discharge portion downwardly and longitudinally therefrom toward the outlet of said injector member and terminating in a substantially free edge portion beyond the downstream edge of said conduit element discharge end portion shielding said end portion and constricting fluid flow through the injector member.



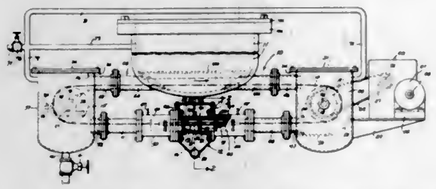
2,609,249
NONMECHANICAL SOLIDS VALVE
Charles H. Winter, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application September 25, 1946, Serial No. 699,194
2 Claims. (Cl. 302—48)



1. In a closed system, a non-mechanical, solids control means comprising an upright standpipe of substantially uniform diameter for admitting fluidized, comminuted, solids to the control means, a transverse fluidizing chamber disposed across the lower terminal of the standpipe at an acute angle to the axis of the standpipe and having a portion thereof extending in opposite directions from the supply terminus to provide a back pocket portion and a mixing chamber of substantially

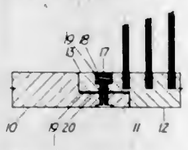
equal diameter and capacity, a discharge conduit having an entrance and outlet positioned to lead vertically downward from the transverse pipe and having its entrance located at a greater distance from the supply pipe than the lower limit of the normal talus when fluidizing gas is not supplied and the limit of the talus when the solids are in their maximum fluidized condition, a connective expansion space for the mixture of solids and gas, positioned between the mixing chamber and vertical discharge port, and means for applying a velocity energy and a static pressure energy comprising a jet having its terminus on a line with the wall of the supply pipe nearest to the discharge outlet.

2,609,250
PRESSURIZED CONVEYER FOR POWDERED MATERIAL
Henry W. Hapman, Detroit, Mich., assignor, by mesne assignments, of forty per cent to Hannah Jane Hapman, Detroit, Mich.
Application May 7, 1948, Serial No. 25,553
10 Claims. (Cl. 302—49)



1. A pressurized conveyor apparatus for powdered material, comprising a substantially pressure-tight structure including a pressure-tight supply container and a pressure-tight delivery container separated from one another and arranged in spaced relationship, and a conduit system interconnecting said containers; an endless flight conveyor mounted in said structure and traversing said conduit system, a pressure fluid connection communicating with said structure for placing said structure under pressure, a material delivery conduit connected to said delivery container, and an additional pressure-fluid connection communicating with said delivery container for expelling the powdered material from said delivery container through said delivery conduit.

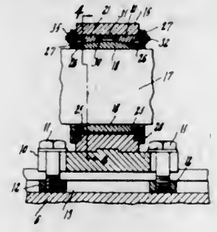
2,609,251
ADJUSTABLE HANDLE FOR TOOTHBRUSHES
Ferdinand Robert Haupt, St. Paul, Minn.
Application April 28, 1947, Serial No. 744,421
1 Claim. (Cl. 306—6)



In an adjustable toothbrush, an adjustable head and handle comprising: a handle having at one end a flat semi-circular axially perforated hinge portion having an interior face and an exterior face; and, as an angularly adjustable extension thereof, a brush-head having, at the end adjacent the handle, a flat semi-circular axially perforated hinge portion having an interior face and an exterior face; one of said interior faces having equally spaced radial depressions and the other having cooperating equally spaced radial protrusions fitting within said depressions; the axial perforations of one of said joint portions terminating at the exterior face in an enlarged recess; a compression coil spring fitting within said enlarged recess; a hollow rivet passing through the axial perforations of said hinge portions and passing through said coil spring, and having a flat head fitting within said enlarged recess and over said spring, holding said spring under compression, and holding the said hinge portions in adjustable cooperating relationship with the two interior faces together; and a solid rivet with its stem fitting tightly within the axial bore of said hollow rivet, said solid rivet retaining said hollow rivet in place against the pressure of said compression spring

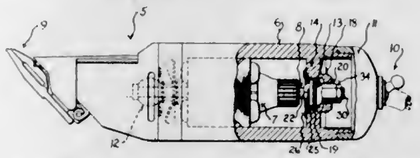
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2,609,252
WEAR-COMPENSATING SPINDLE HEAD
Herbert H. Ranney, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont
Application August 29, 1946, Serial No. 693,674
4 Claims. (Cl. 308—71)



1. In combination, a support, a sleeve carried by said support, a shaft extending through said sleeve, segments between said shaft and sleeve, said segments having internally counter bored end portions, split spring rings engaging in said counterbored portions and bearing on said segments for pressing said segments outwardly toward said sleeve, and elements engaging said segments and actuable to force said segments inwardly against said shaft against the yielding pressure exerted by said spring rings.

2,609,253
BEARING CONSTRUCTION
Ellis Moss Brown, Racine, Wis., assignor to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application December 21, 1949, Serial No. 134,156
5 Claims. (Cl. 308—72)



1. A self-aligning bearing of the type in which one end portion of a shaft is adapted to be rotatably journalled, said bearing comprising: a substantially ball-shaped head and a stem of polygonal cross-section extending rearwardly therefrom, said head having a hole therein coaxial with the stem to receive and rotatably journal said end portion of the shaft, the ball-shaped head having coaxial convex surfaces at its front and rear; a supporting wall having a well opening to its front in which the ball-shaped head of the bearing is received; means in said well defining a socket having a concave surface in mating engagement with the convex surface on the rear of the head to provide for universal swivelling motion of the head in the well an extent sufficient to accommodate slight angular misalignment of the shaft with respect to said wall; said wall also having a polygonal hole therethrough opening into the bottom of said well, coaxial therewith, and of a shape and size to loosely receive said polygonal stem and thereby prevent rotation of the bearing on its axis while permitting angular adjustment thereof; and an annular retaining element secured to the front of the wall coaxially with said well and engaged over the front convex surface of the head to hold the head in the well with the rear convex surface on the head in engagement with said concave surface in the well.

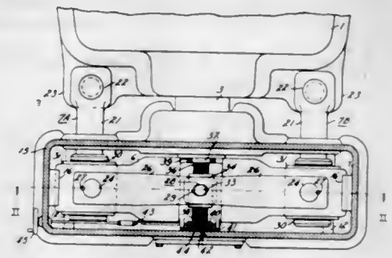
2,609,254
SPINDLE FOR SPINNING AND TWISTING FRAMES
Thomas Harris, Warwick Neck, R. I.
Application May 6, 1950, Serial No. 160,472
4 Claims. (Cl. 308—151)



1. A spindle for spinning and twisting frames comprising a base, a spindle blade extending into the base, said base having two sections relatively movable with reference to each other, a bearing for the blade in one of said sections, a sleeve rotatively mounted in the other of said sections, a second bearing for said blade in said sleeve, said second bearing being eccentrically mounted in said sleeve and said sleeve being eccentrically mounted in the said other section.

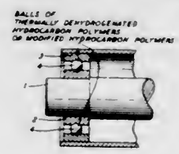
2,609,255
STEAM TURBINE
Clarence E. Kenney and Charles D. Wilson, West Allis, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 31, 1948, Serial No. 68,494
10 Claims. (Cl. 308—166)

1. In an elastic fluid turbine, the combination comprising: a casing; a rotor within said casing; a thrust bearing for said rotor; a yoke carrying the relatively stationary part of said thrust bearing; adjustable means for connecting said casing with said yoke, said adjustable means comprising at least one eccentric rotatably mounted on said



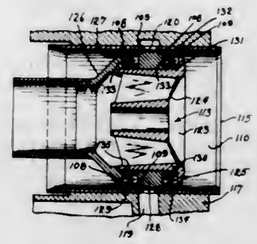
yoke, a lever secured to said at least one eccentric, and adjustable means for holding the movable end of said lever.

2,609,256
BALL BEARING
William O. Baker, Morristown, and Field H. Winslow, Springdale, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 28, 1951, Serial No. 223,637
7 Claims. (Cl. 308—188)



1. A ball bearing comprising a pair of bearing surfaces spaced by at least one sphere formed of a hard, lustrous, coherent carbon and having a diameter less than 1 millimeter.

2,609,257
PISTON RING
Thomas J. Hoy, Newark, N. J.
Original application January 8, 1945, Serial No. 571,745, now Patent No. 2,490,811, dated December 13, 1949. Divided and this application December 10, 1949, Serial No. 132,302
10 Claims. (Cl. 309—29)



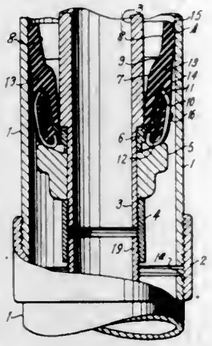
1. A piston ring comprising an inner ring, an outer ring, said rings being spaced from one another, and a compressible, circular, bellows-like diaphragm in the space between said rings and secured to said rings, the outer ring comprising at least two separate sections spaced apart, the diaphragm being adapted to force the inner and outer rings apart.

2,609,258

WELL FLUID HOLDING DEVICE

Raymond G. Taylor, Jr., and Thomas Belmont Losey, Dallas, Tex., assignors to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware

Application February 6, 1947, Serial No. 726,900
7 Claims. (Cl. 309—33)



6. In a well fluid retaining device, a tubular mandrel; a flared plastic cup encircling the mandrel and having upper and lower wall sections, the latter being relatively thick and abruptly decreasing in thickness to merge into the former and allow it to be hinged thereto, the length of the upper section being not less than ⅓ nor more than ½ of the length of the lower section and the thickness thereof being approximately ½ that of the lower section when the latter is heavily loaded; reinforcing material added to the lower section to materially increase its resistance to distortion under pressure, the upper section being unreinforced and yieldably responsive to pressure; and a shelf-affording thimble arranged as a collar about the mandrel and so constructed as to contact and support the base of the cup.

2,609,259

PISTON RING

Frederick W. Wilkening, Penn Valley, Helmuth G. Braendel, Paoli, and Carl F. Engelhardt, Yeadon, Pa., assignors to Wilkening Manufacturing Company, Philadelphia, Pa., a corporation of Delaware

Application June 3, 1948, Serial No. 30,938
12 Claims. (Cl. 309—45)



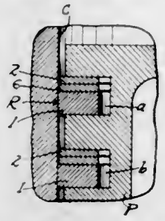
1. In a composite oil-control piston-ring including an outer ring of generally U-shaped cross-section having upper and lower cylinder-contacting lands and a back wall provided with a plurality of circumferentially-spaced oil-drain openings, and including an inner non-bottoming expander comprising a strip of resilient sheet-metal or the like which is generally axially-corrugated and which has legs extending alternately generally axially and circumferentially, an integral fastening clip of sheet-metal or the like constructed and arranged to hold the free ends of the expander strip in generally abutting relationship, said clip including a locking portion disposed within said ring axially-intermediate said cylinder-contacting lands, a neck portion extending radially-inwardly therefrom and through one of said oil-drain openings and through said expander and a circumferentially-extending portion disposed on the inside of said expander and overlying the free ends of said expander.

2,609,260

PISTON PACKING RING

Melvin W. Marien, St. Louis, Mo., assignor, by mesne assignments, to Ramsey Corporation, a corporation of Ohio

Application February 23, 1950, Serial No. 145,608
4 Claims. (Cl. 309—45)



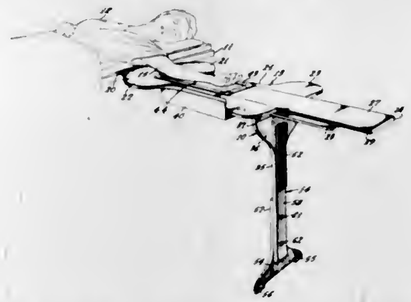
1. In combination with an internal combustion engine, a piston ring comprising a cast iron split annular element having an inherent radial tension to exert substantial pressure against the cylinder wall of the engine and thereby prevent blow-by, and a spring steel helical element juxtaposed to the cast iron element, said helical element having a negligible inherent radial tension merely to exert sufficient pressure against the engine cylinder wall to maintain circumferential contact therewith, said helical element being disposed above the cast iron element.

2,609,261

COLLAPSIBLE ARM SUPPORT TABLE FOR OPERATING TABLES OR BEDS

Joseph A. Parker, Los Angeles, Calif.

Application October 7, 1950, Serial No. 188,993
3 Claims. (Cl. 311—9)



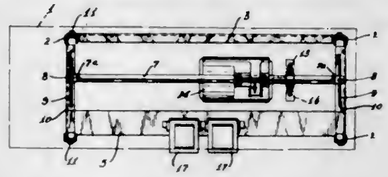
1. A bed-side operating table for surgery of the corporeal extremities comprising a table platform having a drip aperture extending therethrough, elbow rests on the table platform, one end of the table platform forming a bed rest extension and said table platform having a slot extending from the aperture through an outer end opposite from the bed rest extension, an upper panel having a sliding attachment to the sides of the slot, said upper panel having a closed position over the drip aperture and an open position clear of the aperture and extending beyond the outer end, a lower panel shorter than and underlying said upper panel, a mounting beneath said slot affording sliding movement for said lower panel, said lower panel having a closed position over the drip aperture and an open position extending beyond the outer end, stops cooperable between the panels and the table platform to limit outward movement of the panels, and a leg having an inwardly swinging hinged connection at the top thereof to the table platform near the outer end of said platform.

2,609,262

SEWING MACHINE TABLE MOTOR MOUNT

Nicholas G. Godshall and Roy L. Marks, Ephrata, Pa., assignors to Walter W. Moyer Company, Ephrata, Pa., a partnership

Application July 5, 1951, Serial No. 235,252
1 Claim. (Cl. 311—16)



In a sewing machine power table of the type have a slotted table top supported by a metal framework including four legs, an adjustable motor mounting bracket construction for adjustably mounting a motor for driving a sewing machine mounted on the top of and substantially centrally of the table and including a clutch and operating arm therefor; comprising, in combination, a motor mounting bar of square cross section extending longitudinally of and in close proximity underneath said top for adjustably mounting a supporting bracket of the motor in any of a plurality of positions longitudinally of the table, the ends of said bar being flattened and each having a hole extending therethrough, a pair of brackets extending transversely of the framework between said legs and each having an elongated slot extending throughout a large central portion thereof, and bolts extending through said holes and slots for adjustably mounting said motor mounting bar transversely of the table, said legs having a plurality of vertically spaced holes for mounting the ends of said brackets in selective vertical positions, a treadle mounted on the base portion of said framework underneath said motor, and a treadle rod interconnecting said treadle and clutch arm and extending in a substantially vertical direction so that force applied to the treadle by the feet of the operator may be easily transmitted to said clutch arm.

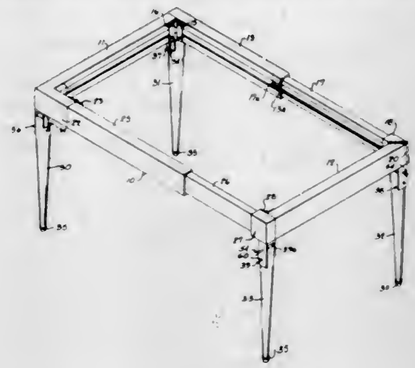
2,609,263

FOLDING EXTENSIBLE TABLE

Benjamin F. Hager, Charlotte, N. C.

Application January 31, 1950, Serial No. 141,464
3 Claims. (Cl. 311—76)

3. A substantially rectangular frame for supporting the table top comprising first and second spaced parallel telescopic side rails, first and second end rails extending between opposed ends of the telescopic side rails, the first side rail being hingedly connected at opposed ends thereof to one end of both of the end rails, the second side rail being hingedly connected at one end thereof to the end of the first end rail remote from the end of the first end rail which is hingedly connected to the first side rail, a stub portion integral with the second end rail and projecting toward the first end rail and to which the end of the second telescopic side rail remote from the first end rail is hingedly connected, a table leg hingedly secured to each corner of the frame for supporting the table top, whereby the sections of the side rails may be fully telescoped one within



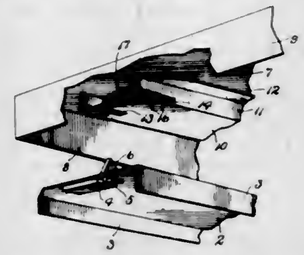
the other and the side rails and the end rails may be folded at the hinged points thereof so the side rails and end rails may assume a substantially parallel position in juxtaposed relation to each other.

2,609,264

TOP TO FRAME CONNECTING STRUCTURE MECHANISM

William A. Poe, Muskegon Heights, Mich., assignor to Browne-Morse Company, Muskegon Heights, Mich., a corporation of Michigan

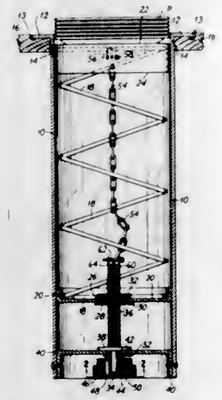
Application December 19, 1949, Serial No. 133,758
7 Claims. (Cl. 311—108)



1. In a structure as described, a furniture under supporting structure, horizontal metal channel members secured thereto, one adjacent each end thereof and extending from front to rear, said channel members having horizontal upper webs and downwardly extending flanges permanently secured to the under supporting structure, short bars permanently secured to the under sides of said webs of said channels adjacent each end thereof and extending upwardly through said webs of the channels and above the channels, terminating in upwardly extending heads wider than associated bars where connected thereto, a horizontal top of flat metal, channel members secured at the under side thereof, one adjacent each end thereof, and extending from front to rear having lower webs and upwardly extending flanges located to rest upon webs of the channel members secured to the supporting structure, said channels connected with the top having openings through their webs for the passage upwardly therethrough of said heads, and said channels, in a flange thereof, having slots aligned in the direction of the length of the top with the slots in the webs, and keys

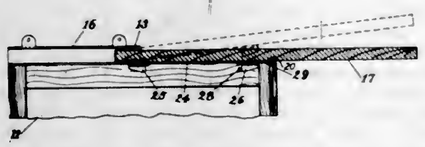
insertable through said slots in said flanges adapted to engage with said heads to prevent separation of the top and support channels from each other.

2,609,265
SELF-LEVELING, STORING, AND DISPENSING APPARATUS
Carl H. Larsen, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application March 16, 1949, Serial No. 81,639
3 Claims. (Cl. 312—71)



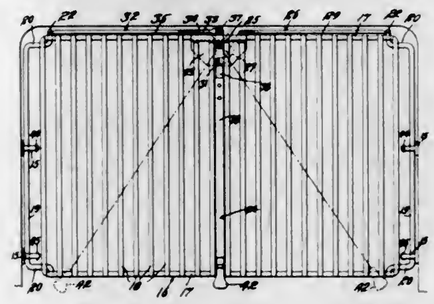
1. Apparatus of a self leveling type comprising, a housing, a spring support, a calibrated compression spring supported thereon, a material support mounted at the upper end of said calibrated spring, a single manually turned elevating screw detachably connected to said housing for raising and lowering said spring support, an elongated flexible member interconnecting said carrier with said elevating screw to limit the distance said carrier can move upwardly, and a member detachably connecting said screw to the lower end of said housing.

2,609,266
FURNITURE
Louis E. Himelreich, Louisville, Ky., assignor to H. J. Scheirich Co., Louisville, Ky., a corporation of Kentucky
Application June 26, 1947, Serial No. 757,267
5 Claims. (Cl. 312—203)



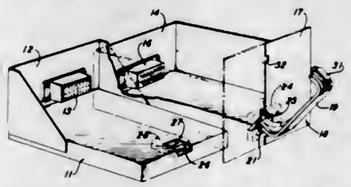
2. An open top article of furniture comprising a base portion having channel members secured to the sides thereof adjacent the top and providing inturned flanges on the top of the base portion of lesser length than the depth of the base portion, a top cabinet portion of lesser depth than the base portion secured in spaced relation to the base portion, a top for the base portion comprising a shelf having its lateral edges slidably embraced by said channel members and resting on said flanges and base top, guide means on the bottom of said shelf comprising spaced front and rear fingers located to engage the bottom surfaces of said inturned flanges when the shelf is in retracted position, said fingers being spaced the length of the channel members, pins adjacent the front end of said base located to engage said front fingers when the shelf is extended, in which position the front fingers disengage the flanges to allow tilting of the front end to enable the front fingers to ride over said pins, said front fingers serving as stops engaging the front of the base to prevent removal of the shelf by a direct pull, and said pins engaging behind said front fingers when said shelf is in extended position to prevent retractile movement thereof.

2,609,267
ADJUSTABLE SHELF
Robert Lay Hallock, Larchmont, N. Y.
Application January 16, 1947, Serial No. 722,369
2 Claims. (Cl. 312—306)



2. A shelf organization including shelf supports, a shelf slab, and mechanism attached to said shelf slab and removable therewith as a unit and adapted to engage the shelf supports to move and support said shelf slab, said mechanism including a single lever pivotally mounted on the shelf slab at the rear thereof and movable substantially parallel to the plane of the shelf slab, arms having horizontal portions pivotally attached at one end to said lever and located adjacent the rear edge of the shelf slab, and means connected to the opposite ends of said arms at each side of the shelf slab and engaging said shelf supports beyond the side edges of the shelf slab, said means being operable upon movement of said lever to raise and lower said shelf slab above and below said supports.

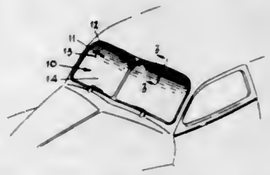
2,609,268
MECHANICAL PRESSURE LATCH
Robert Glen Nye, San Diego, Calif.
Application December 8, 1948, Serial No. 64,065
12 Claims. (Cl. 312—320)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In the combination of a base, a drawer slidable on said base and having a front panel, the improvement which comprises an operating lever having a forked portion at one end and a handle portion at the other end, said forked portion extending thru an aperture in said front panel, and into an adjacent recess in said base, a pivot pin between said portions of said lever pivotally mounting said lever to said front panel, a cross bar secured to said base spanning the recess therein parallel to said front panel and adapted to be engaged by said forked portion upon pivoting of said lever, a shoulder extending from said forked portion inside said front panel, a stop member on said front panel adapted to engage said shoulder to limit said lever upon outward pivoting thereof, a latch on the end of said handle portion, and a lip on said front panel adapted to be engaged by said latch upon inward pivoting of said lever.

CHEMICAL

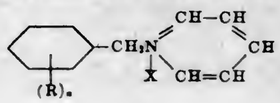
2,609,269
GLARE SCREEN
Joseph D. Ryan and Paul T. Mattimoe, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Original application November 18, 1948, Serial No. 60,725. Divided and this application April 4, 1950, Serial No. 153,782. In Canada September 30, 1949
4 Claims. (Cl. 8—4)



1. In a method of producing a laminated safety glass antiglare screen having a dyed area of gradually decreasing hue from an edge toward the middle thereof, the steps of dyeing an area of a sheet of polyvinyl acetal resin plastic prior to laminating it with a glass sheet which comprises, suspending the sheet to be dyed above a bath of a solution of dye in a liquid swelling agent for the plastic and solvent for the dye and a diluent, causing relative movement between said sheet and said dye bath to gradually immerse the former in the latter for a predetermined distance and at predetermined rates of speed, then quickly withdrawing the plastic from the dye bath, immediately rinsing the dyed area with a rinse comprising a liquid swelling agent for the plastic and solvent for the dye and a diluent and having a concentration of swelling agent that is no less than the concentration of swelling agent in said dye bath to blend the dyed and undyed areas, then rinsing the dyed area with water, and finally drying said dyed and rinsed plastic sheet.

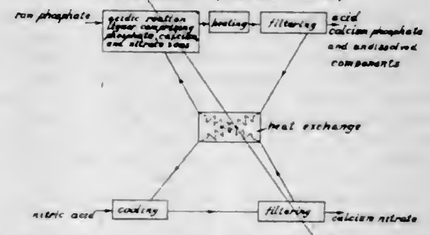
2,609,270
MILDEWPROOF CELLULOSE PRODUCED BY REACTION WITH CHLORO-BENZYL QUATERNARY AMMONIUM SALTS
Monroe Couper, Waynesboro, Va., assignor to Institute of Textile Technology, Charlottesville, Va., a corporation of Virginia
No Drawing. Application November 15, 1949, Serial No. 127,527
6 Claims. (Cl. 8—116.2)

1. The method of mildewproofing cellulose which comprises immersing the cellulose in an aqueous solution containing from 1% to 6% of a compound represented by the formula



in which R represents a halogen of the group consisting of chlorine and bromine, n is an integer from 1 to 5 inclusive, and X is a negative ion of the group consisting of chlorine, bromine, iodine and ($CH_3SO_4^-$), drying the cellulose and heating the cellulose to a temperature in the range of from 100° C. to 200° C. to cure the product and tenaciously couple the compound to the cellulose.

2,609,271
PRODUCTION OF CALCIUM PHOSPHATES AND CALCIUM NITRATE
Mathijs H. R. J. Plusje, Beek, Netherlands, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands
Application July 31, 1947, Serial No. 765,155
In the Netherlands September 25, 1941
4 Claims. (Cl. 23—102)

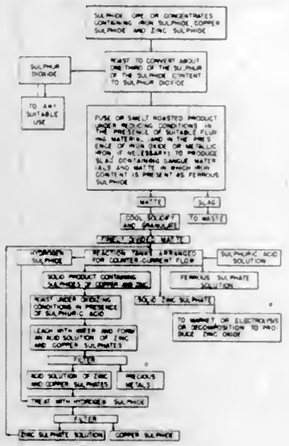


1. A cyclic process for the production of acid calcium phosphates and calcium nitrate from raw phosphate material and nitric acid, which comprises the successive steps: dissolving raw phosphate material in a circulating acidic mother liquor comprising a substantial amount of residual added nitric acid and calcium and phosphate ions; precipitating a material of the group consisting of monocalcium phosphate, dicalcium phosphate or mixtures thereof from the reaction mixture by boiling off water from the mixtures; separating and withdrawing from the supernatant solution the precipitated material and insoluble impurities present in the raw phosphate material, the amount of precipitated material so withdrawn being such that, for each mol of tricalcium phosphate dissolved in the mother liquor, the corresponding amount of acid calcium phosphate is withdrawn from the solution; adding to the solution 2–4 mols of nitric acid for each mol of tricalcium phosphate present in said raw phosphate material, plus an additional quantity of nitric acid to compensate for acid reacting impurities present in the phosphate material; precipitating calcium nitrate tetrahydrate from the solution by cooling to a temperature in the range of 0° to 25° C.; separating and withdrawing the precipitated nitrate from the supernatant acidic liquor, the amount of calcium nitrate so withdrawn from the circulating mother liquor substantially corresponding to the amount of nitric acid added to the mother liquor; and repeating the process by using the separated supernatant acidic liquor to treat a fresh quantity of raw phosphate material.

2,609,272
PROCESS FOR THE TREATMENT OF MATTE TO RECOVER METALLIC SALTS

Marvin J. Udy, Niagara Falls, N. Y., assignor to Guaranty Investment Corporation, Limited, Montreal, Quebec, Canada, a corporation of Canada

Application December 9, 1946, Serial No. 715,112
4 Claims. (Cl. 23—125)



1. The method of recovering zinc from matte containing sulphides of iron and zinc which comprises digesting the matte in finely divided form with an aqueous solution of sulphuric acid in a counter-current system comprising a series of receptacles, the sulphuric acid being of such concentration as to produce a substantially neutral solution of ferrous sulphate when reacted with the iron sulphide of the matte by introducing untreated matte into the first receptacle of the series and introducing the solution of sulphuric acid initially into the last receptacle of the series, effecting partial decomposition of the matte and partial consumption of the acid solution in each receptacle, withdrawing the substantially neutral solution of ferrous sulphate from the first receptacle, continuing the digestion treatment by passing residual solid material to each of the various receptacles in series from the first to the last and passing the acid solution to each of the receptacles in series from the last to the first, cooling the acid solution at a point intermediate the last and first receptacles to crystallize and recover a portion of the zinc of the matte as zinc sulphate, withdrawing from the last receptacle a solid residue containing the remainder of the zinc of the matte in the form of zinc sulphide and treating the solid residue to recover a zinc product therefrom.

2,609,273
NITROUS OXIDE PRODUCTION

Frederick R. Balcar, Stamford, Conn., assignor to Air Reduction Company, Inc., New York, N. Y., a company of New York

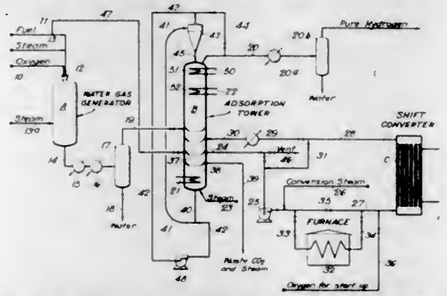
No Drawing. Application January 9, 1948, Serial No. 1,481
4 Claims. (Cl. 23—158)

1. The method for the production of nitrous oxide which comprises passing a feed which consists essentially of an aqueous solution of ammonium nitrate in indirect heat-exchange relationship to a mass of substantially anhydrous molten ammonium nitrate maintained at a temperature sufficiently high to affect a thermal decomposition of the molten ammonium nitrate to nitrous oxide, maintaining the feed in indirect heat-exchange relationship with the molten ammonium nitrate for a length of time sufficient to bring it to substantially the same temperature as the molten ammonium nitrate, introducing the thus heated feed beneath the surface of the molten ammonium nitrate, and adjusting the proportion of water in the feed to regulate the temperature of the mass of molten ammonium nitrate.

2,609,274
HYDROGEN PROCESS

Leonard W. Russum, Whiting, and Joseph F. Coffey, Valparaiso, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application December 31, 1949, Serial No. 136,262
6 Claims. (Cl. 23—214)

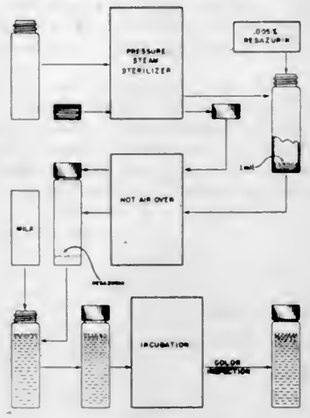


1. The method of producing CO-free H_2 from a gas mixture containing substantial amounts of H_2, CO, CO_2 and H_2O, which method comprises introducing said mixture at an intermediate level of an adsorption zone into a downwardly flowing column of a granular solid adsorbent capable of adsorbing CO, CO_2 and H_2O, passing said introduced gases upwardly counter-current to the downwardly flowing adsorbent under conditions for adsorbing substantially all CO and CO_2 from the H_2 in a countercurrent portion of the adsorption zone, removing unadsorbed H_2 from the upper part of said adsorption zone, selectively desorbing CO from the downwardly flowing adsorbent at a level substantially below the level at which the gas mixture is introduced, adding to the desorbed CO an amount of H_2O which is at least 1 mol of H_2O per mol of CO, but not substantially more than about 2 mols of H_2O per mol of CO, contacting said CO—H_2O mixture at a conversion temperature not higher than about 850° F. with a shift catalyst to convert most, but not all, of the CO—H_2O to CO_2—H_2, cooling the effluent from the contacting step and returning the cooled effluent to a level in the adsorption zone which is above the CO-desorption level and below the countercurrent portion of the adsorption zone whereby H_2 produced in the contacting step passes upwardly in the adsorption zone and is removed with the initially introduced hydrogen component and unreacted CO from the contacting step passes downwardly for desorption and further contacting with H_2O in the presence of the shift catalyst so that CO is thus recycled to extinction, passing adsorbent containing initially introduced CO_2 and CO_2 from the contacting step downwardly to a CO_2 desorption zone and removing CO_2 from the adsorbent in said CO_2 desorption zone, heating the catalyst to remove substantially all adsorbed components therefrom whereby the adsorbent is denuded and returning said denuded adsorbent to the upper part of said adsorption zone for repeating its cycle.

2,609,275
RESAZURIN TEST FOR MILK

Norman S. Golding, Pullman, Wash., assignor to State College of Washington Research Foundation, Pullman, Wash., a corporation of Washington

Application June 12, 1946, Serial No. 676,327
1 Claim. (Cl. 23—231)

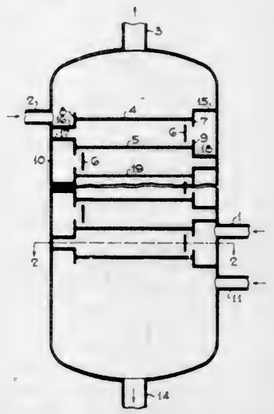


In a method of conducting a resazurin test for milk, the steps which comprise adding to a washed and sterilized vial, a required fraction of a milligram of resazurin in solution, evaporating the same to dryness, closing said vial with a sterilized and dried cap so as to maintain said resazurin in condition to subsequently receive a sample of milk to be tested and thereafter placing a sample of milk in the vial.

2,609,276
LIQUID-LIQUID EXTRACTION PROCESS AND TOWER

John R. Casler, Elizabeth, and Channing C. Nelson, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 24, 1948, Serial No. 51,048
3 Claims. (Cl. 23—310)

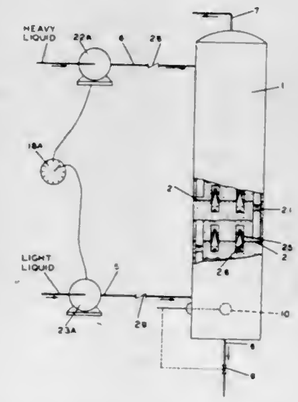


1. An improved liquid-liquid solvent extraction process for countercurrently contacting two liquids having partial immiscibility with respect to one another and of different densities which comprises maintaining a plurality of treating zones one above the other, flowing the respective liquid streams in an initial stage of each zone in a plurality of high velocity jets directly opposed to each other, thereafter passing the streams in concurrent relation at low velocity through an unobstructed secondary stage in a flow direction substantially perpendicular to the flow in said initial stage whereby separation of the two streams occurs, and passing said separated streams from said second stage into a tertiary stage and flowing the respective streams in said tertiary stage substantially perpendicular to the flow of streams in said secondary stage, maintaining the volume of liquids in said tertiary stage sufficient to create a sufficient head to force the respective streams into initial stages of adjacent zones.

2,609,277
CONTACTING OF IMMISCIBLE LIQUIDS

Timothy L. McNamara, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application February 24, 1947, Serial No. 730,648
18 Claims. (Cl. 23—310)



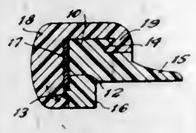
1. A method of effecting liquid-liquid contacting of two immiscible liquids of different specific gravities in a vertical contacting column provided with a plurality of vertically spaced horizontal trays each of which is equipped with aspirators having their suction inlet in free communication with the space above the tray and adapted to jet the lighter liquid from the space below the tray through the tray vertically into the space above the tray and to suck the heavier liquid on the tray into intimate admixture therewith, which comprises first feeding the lighter liquid continuously into the bottom of the column and causing same to jet upwardly through the aspirators and to suck the heavier liquid into intimate admixture with the lighter liquid followed by gravity separation and withdrawing the lighter liquid from the top of the column, then discontinuing feeding and withdrawal of said lighter liquid and feeding the heavier liquid into the top of the column and causing same to flow downwardly through the column and withdrawing the heavier liquid from the bottom of the column, then discontinuing said last-named series of steps and resuming said first-named series of steps, and continuing said first-named and said second-named series of steps in alternating relationship for a plurality of cycles.

2,609,278

ORNAMENTED OPHTHALMIC FRAME

Thomas H. Eyles, Leominster, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts

Application July 13, 1950, Serial No. 173,598
2 Claims. (Cl. 41—35)



1. An ornamented ophthalmic frame comprising a molded plastic inner frame section having an indentation in the upper part of its rear surface, a shoulder projecting outward from its front face, an ornamental element affixed to the front face of said section and resting on said shoulder, and an outer plastic frame section molded onto the inner section, said outer section having a projection that is received and interfits in the indentation of the inner frame section.

2,609,279

TURBOJET FUEL

Kenneth G. Morris, Cranford, and Raymond A. Van Sweringen, Jr., Roselle Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 26, 1949, Serial No. 129,696
2 Claims. (Cl. 44—57)

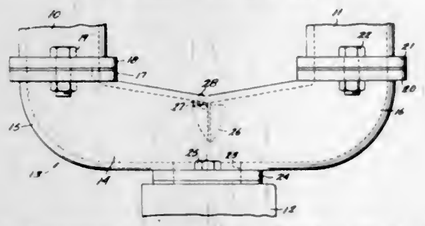
1. A fuel for use in turbo-jets in which the oxygen required for combustion of the fuel is supplied by air, said fuel consisting essentially of a liquid hydrocarbon composition containing at least 50% by volume of aromatic hydrocarbons and 0.1 to 5% by volume of cumene hydroperoxide.

2,609,280

FUEL MIXING DEVICE

Alva D. Cremean, Searcy, Ark.

Application November 29, 1948, Serial No. 62,441
1 Claim. (Cl. 48—180)



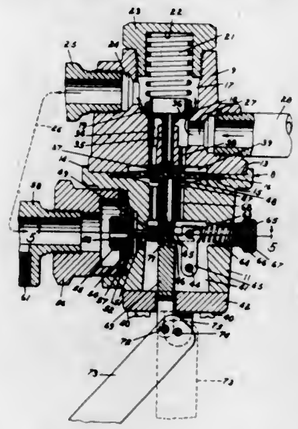
In a turbulence manifold for internal combustion engines, the combination which comprises an elongated substantially cylindrical housing having inlet carburetor openings with attaching flanges on the ends and with said flanges positioned in a common plane which plane is parallel to the longitudinal axis of the housing, the axes of said carburetor openings being substantially perpendicular to said axis of the housing, said housing also having an outlet intake manifold opening with an attaching flange thereon positioned between said carburetor openings, the area of said housing being less at the point where the intake manifold opening is positioned than at the ends where the carburetor openings are positioned, and a deflector, substantially S-shaped in cross section, having an intermediate web positioned transversely of said housing and having oppositely curved ends on said web mounted on the inner surface of the wall of the housing opposite to the wall in which the said intake manifold opening is positioned, said deflector positioned in alignment with said intake manifold opening whereby maximum turbulence of air and gas mixtures passing through said housing is produced.

2,609,281

FLASHBACK ARRESTER

Elmer H. Smith, Minneapolis, Minn., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn., a corporation of Minnesota

Application September 25, 1948, Serial No. 51,243
1 Claim. (Cl. 48—192)



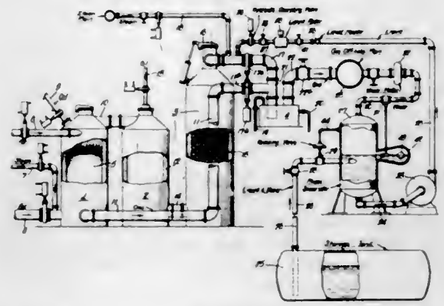
A safety device for automatically interrupting a flashback of high pressure gas through the usual fuel gas supply conduit of a conventional oxygen-acetylene torch, said device comprising a hollow body composed of two parts suitably bolted together, a diaphragm interposed between said parts to provide a leaktight connection therebetween, the interior of the upper part of said body having a spring-actuated valve therein for dividing it into two chambers, the chamber below said valve having an intake, conduit for conducting low pressure gas from a gas supply source to the valve chamber said valve having an operative connection with said diaphragm, whereby when the diaphragm moves downwardly said valve closes, the other part of said body being hollow and having a threaded socket in a wall thereof, a fitting received in said socket, a diaphragm seated in the bottom of the socket and secured therein by said fitting, said first mentioned diaphragm having a stem extending into the lower part of said body, a trigger pivotally mounted in said lower body part and having a spring constantly urging it into locking engagement with a shoulder on said stem to thereby retain the valve in open position under normal operation of the torch, a second conduit for conducting low pressure gas to said fitting from the chamber above said valve, one side of said second diaphragm being exposed to the low pressure gas flowing through said fitting from the gas supply source, whereby said second diaphragm may be distorted by a sudden backflow of high pressure gas through said fitting caused by an explosion of the fuel gas at the torch tip, whereby the trigger is moved out of locking engagement with said stem to thereby permit the valve to close before the backflow of high pressure gas can reach the valve chamber, thereby positively preventing the backflow of high pressure gases from reaching the gas supply source and causing an explosion therein.

2,609,282

APPARATUS AND METHOD FOR HANDLING OF LIQUEFIED NORMALLY GASEOUS MATERIALS

John S. Haug, Philadelphia, and Price W. Janeway, Jr., Media, Pa., assignors to United Engineers & Constructors Inc., Philadelphia, Pa., a corporation of Delaware

Application December 31, 1946, Serial No. 719,348
4 Claims. (Cl. 48—197)



1. The method of distributing normally gaseous hydrocarbon material employed in the manufacture of combustible gas by a process involving alternate heating of contact material in a gas-generating set and passing hydrocarbon and steam therethrough in a cyclic operation, comprising flowing said liquefied normally gaseous hydrocarbon material from a container in which pressure conditions are such as to maintain said normally gaseous material substantially in the liquid phase therein under the temperature conditions obtaining, along a confined path in which pressure conditions are reduced with respect to said container to cause flow from said container and to cause partial conversion of said liquefied normally gaseous hydrocarbon material to the vapor phase with the chilling of the remaining liquid phase material, to a confined phase separating zone; withdrawing vapor phase material; flowing said chilled liquefied normally gaseous hydrocarbon material from said phase separating zone along a second confined path to and through a liquid meter at an increased pressure with respect to said phase separating zone such that the temperature of said chilled liquefied normally gaseous hydrocarbon material in said second confined path is below its boiling point therein; thereafter passing said metered hydrocarbon material with steam through said hot contact material of said gas-generating set to produce combustible gas.

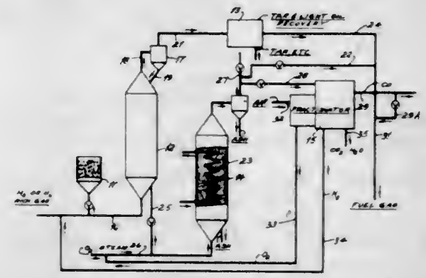
2,609,283

CONVERSION OF CARBONACEOUS MATERIALS INTO A FUEL GAS

John C. Kalbach, New York, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

Application August 9, 1947, Serial No. 767,793
4 Claims. (Cl. 48—197)

1. In a process for producing fuel gas of high heating value from a solid carbonaceous material containing volatilizable constituents, the improvement which comprises simultaneously hydrogenating and carbonizing autogenously said solid carbonaceous material by continuously contacting said carbonaceous material in comminuted form in a dense phase fluidized bed with a stream of hydrogen at a pressure within the range of from about 300 to about 750 pounds per square inch gauge and at a substantially uniform temperature within the range of from about 1,000 to about 1,500° F. in a carbonization zone, continuously introducing said carbonaceous material into said carbonization zone, discharging



a gaseous product comprising hydrocarbons and unreacted hydrogen from said carbonization zone, continuously withdrawing carbon-containing residue from said carbonization zone and reacting said residue in a gasification zone with an oxygen-containing gas and steam to produce a mixture of carbon monoxide and hydrogen, separating hydrogen from said mixture, passing said hydrogen to the carbonization zone as the source of hydrogen for reaction with said solid carbonaceous material, and admixing carbon monoxide separated from said mixture with said gaseous product from the carbonization zone to produce a fuel gas of relatively high heating value.

2,609,284

COATED ABRASIVE ARTICLE AND METHOD OF MAKING

Leonard R. Nestor, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application June 28, 1947, Serial No. 757,929
7 Claims. (Cl. 51—302)

6. A flexible abrasive article of the nature of sandpaper, having abrasive grits adhesively bonded to a flexible backing by a grit bonding coat and a surface sizing coat, said grit bonding coat comprising the alkali-converted oxidized starch product formed by oxidizing starch, at a temperature of at least about 80° F. but less than that required for gelatinization of the starch, to a predetermined end-point at a moderately acid pH value without substantially reducing its internal strength, and converting to a distinctly alkaline, viscous fluid adhesive mass of high bonding strength, having a viscosity of about 1000–8000 centipoises at a concentration of about 40–50% solids when measured at 45° C., by adding an active base from the class consisting of alkali metal hydroxides and sodium metasilicate in an amount equivalent to 9–16 parts of sodium hydroxide for each 100 parts of unoxidized starch, and said surface sizing comprising an alkali-catalyzed synthetic phenolic resin.

2,609,285

ABRASIVE ARTICLE

James A. Thomas, Jr., Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

Application December 8, 1949, Serial No. 131,855
9 Claims. (Cl. 51—309)

1. A metal-bonded abrasive article comprising a sintered abrasive portion containing a minor proportion of diamond abrasive particles and a bond comprising the sintered reaction product of a major proportion of copper powder and tin powder in an amount up to about 20% of the weight of said bond, and an integral, sintered, non-abrasive metal support for said abrasive portion comprising in sintered form about 50–70% iron powder, 24–40% copper powder and 6–10% tin powder.

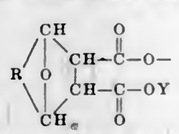
2,609,286

PLANT GROWTH REGULATION

Nathaniel Tischler, Palmyra, N. J., assignor to Sharples Chemicals Inc., a corporation of Delaware

No Drawing. Application February 27, 1951, Serial No. 213,062
16 Claims. (Cl. 71—2.5)

1. A composition prepared for use as a plant response agent which comprises a salt of an acid selected from the group consisting of unsubstituted open-chain carbon-to-carbon linked dicarboxylic and tricarboxylic acids having no greater unsaturation than a single olefinic linkage and having from 2 to 6 carbon atoms, with at least one of the group consisting of ammonia, alkyl amines, alkanol amines and mixed alkyl-alkanol amines; and a compound which when in the presence of water yields anions having the configuration



in which Y represents one of the group consisting of an unsatisfied valence and a cation, and in which R represents one of the group consisting of the vinylene radical and the ethylene radical.

2,609,287

FERTILIZERS

Karl Heinz Hennenberger, Albersbach-on-the-Odenwald, Germany, assignor to Huttenchemie G. m. b. H., Mannheim-Rheinau, Germany, a limited liability company of Germany

No Drawing. Application September 17, 1951, Serial No. 247,025. In Germany February 6, 1951
4 Claims. (Cl. 71—45)

1. The process of producing a fertilizer which comprises heat-treating in a reducing atmosphere at a temperature leading at least to calcination, a mixture of crude phosphate with a material containing a substantial percentage of manganese and a material containing an alkali and silica.

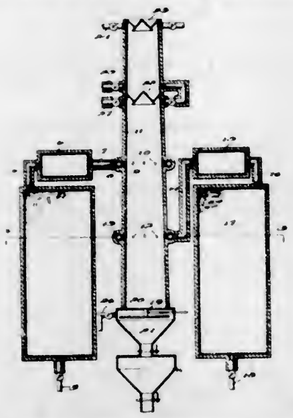
2,609,288

PROCESS FOR THE REDUCTION OF METAL OXIDES BY GASES

Alexander Thomas Stuart, deceased, late of Toronto, Ontario, Canada, by Isobel E. Stuart, executrix, Toronto, Ontario, Canada

Application March 8, 1950, Serial No. 148,672
In Canada, March 8, 1949
11 Claims. (Cl. 75—34)

1. A process for the reduction of metal oxides without fusion which comprises the steps of feeding oxide ore to a furnace having preheating, reduction and cooling zones one below the other, preheating and effecting reduction of the ore by alternate cycles of gas circulation, the first cycle comprising the circulation of a hot gas through the reduction and preheating zones,



the second cycle being a reducing cycle wherein hot reducing gas is circulated only through the reducing zone, withdrawing the gases from the furnace, repeating the reducing cycle until the ore is reduced, and removing the reduced metal from the furnace.

2,609,289

TREATING FERROUS METALS WITH ALUMINUM

Guy E. McKinney and Paul J. Motter, Canton, Ohio

No Drawing. Application January 5, 1951, Serial No. 204,677
12 Claims. (Cl. 75—129)

1. The process of combining aluminum with ferrous metal, which consists in covering pulverized pure aluminum with fire clay and heating to a temperature of 2000° F. to 2200° F., cooling and separating the resulting aluminum mass and pulverizing the same, and then adding the pulverized aluminum mass to the ferrous metal in a highly heated condition.

2,609,290

METHOD OF STRIPPING PHOTOGRAPHIC EMULSIONS

Jacob Quentin Umberger, Holmdel, and Arthur William Grumbine, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 17, 1948, Serial No. 27,607
12 Claims. (Cl. 95—2)

11. The process which comprises developing an exposed photographic film element having superposed thereon two latent image-bearing gelatino silver halide emulsion layers which are separated by a stripping layer consisting essentially of a water-soluble macromolecular acetal of a hydroxyl polymer having a plurality of recurring intralinear



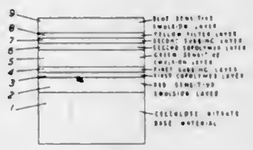
groups with an aldehyde containing a solubilizing group taken from the class consisting of —COOZ and —SO_3Z where Z is a member taken from the group consisting of hydrogen and a water-soluble salt-forming cation, which aldehyde is otherwise unsubstituted, fixing said element, and washing the element, characterized in that after the developing step and prior to the washing step the developed element is treated in an aqueous solution containing a water-soluble inorganic polyvalent metal gelatin-hardening agent which yields metal ions having a valence of 3 to 4 to reduce the water solubility of the acetal layer, drying the washed element subsequently resolubilizing said layer by treating it in an aqueous bath having a pH of about 2.0 to 3.0 containing an anionic surface active wetting agent, pressing the outer image-bearing layer of said element into contact with a film bearing a gelatin layer and stripping the image-bearing layer adhering to said gelatin layer from the remainder of said exposed photographic film.

2,609,291

PHOTOGRAPHIC MULTILAYER STRIPPING FILMS

Jack Howard Coote, London, and William Harry Gathercole, Surrey, England, assignors to Dufay-Chromex Limited, London, England, a British company

Application November 26, 1948, Serial No. 62,226
In Great Britain November 28, 1947
7 Claims. (Cl. 95—2)



1. A multi-layer stripping film comprising a support carrying upon one side thereof at least two silver halide emulsion layers sensitive to different parts of the spectrum, said layers being separated by a layer comprising a transparent, flexible, water-insoluble, hydrophobe copolymer of vinyl chloride and vinyl acetate and containing at least 85% of vinyl chloride, the silver halide emulsion layer underlying said copolymer layer adhering directly to said copolymer layer and the silver halide emulsion layer overlying said copolymer layer being attached hereto by a hardened gelatine layer.

2,609,292

LIGHT-SENSITIVE PHOTOGRAPHIC ELEMENT AND PROCESS USING IT

Cecil Waller and Harold Owen Dickinson, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company

Application July 9, 1946, Serial No. 682,300
In Great Britain July 10, 1945
8 Claims. (Cl. 95—2)

1. A photographic element which comprises a support carrying at least three superimposed layers, the outer ones of which are colloid silver halide photographic emulsion layers and the middle one of which is a layer of substantially colourless colloid containing silver sluphide nuclei, of such particle size and quantity that they impart no colour to the layer, the said colourless colloid containing a quantity of silver compound insufficiently sensitive to light to produce any appreciable image in the said colourless colloid layer on photographic development, but sufficient in quantity to produce, with the aid of said silver sulphide nuclei, a layer of silver substantially opaque to blue light on photographic development.

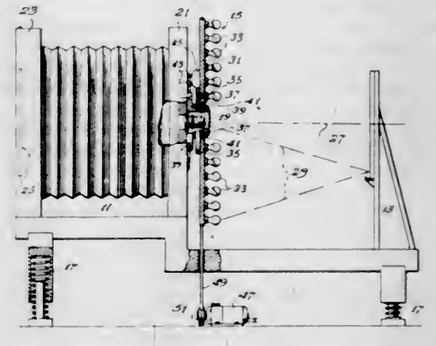


2,609,293

METHOD OF PHOTOGRAPHING PRINTING FORMS

George L. Morrison, Evanston, Ill.

Application December 2, 1948, Serial No. 63,037
5 Claims. (Cl. 95—5)



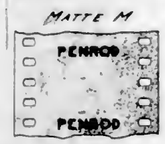
1. The method of photographing printing forms and like copy material containing spaced-apart, plano-relief printing surfaces, which comprises treating the background of said copy material to suppress light reflections from the non-printing areas of said copy material, abrading said printing surface to produce thereon a uniform, non-directional, matte finish, illuminating said copy material by a planar light source which has over-all dimensions that are at least twice the corresponding dimensions of the copy material to be photographed, which is located adjacent the lens in a plane that is normal to the optical axis of the lens and which is of increasing intensity in a direction outwardly from the optical axis of the lens such that the light intensity at any point on the surface of the copy material to be photographed varies substantially in accordance with the reciprocal of the fourth power of the cosine of the angle which such point makes with the optical axis of the lens, and then photographing said copy material.

2,609,294

CINEMATOGRAPHIC MATTE FILM AND PROCESS OF MAKING IT

Leland B. Prentice, Arcadia, Calif., assignor to Technicolor Motion Picture Corporation, Los Angeles, Calif., a corporation of Maine

Application September 10, 1947, Serial No. 773,148
3 Claims. (Cl. 95—5)



3. In the art of cinematography, the method of printing photographic silver halide emulsion of motion picture film which comprises exposing areas of the emulsion with normal exposure light of such character as to produce transparent areas with opaque lettering in parts thereof, uniformly exposing all said areas from the emulsion side of the film in such manner as to expose predominantly the grains at the surface of the emulsion, and developing all said areas, the uniform exposure being sufficient to produce a uniform density of silver of at least approximately 0.12, whereby in running the film through machines the static electricity may be conducted away from said other areas by said uniform density of silver without interfering wi h the transmission of pictures therethrough.

2,609,295

PROCESS FOR DISCONTINUOUSLY PHYSICALLY DEVELOPING LATENT PHOTOGRAPHIC IMAGES

Roelof Jan Hendrik Alink, Cornelis Johannes Dippel, and Harke Jan Houtman, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

No Drawing. Application October 8, 1948, Serial No. 53,605. In the Netherlands October 27, 1947

6 Claims. (Cl. 95—6)

1. A method of producing photographic metal contrasts which comprises stacking a plurality of sheets of photographic material each of which comprises a lyophilic support carrying a light-sensitive system containing a diazonium compound and a mercurous salt and which has been exposed to light to form a latent photographic contrast thereon in a stable developing liquid containing a metal salt reducible to a metal in solution and a compound capable of reducing the metal salt to a metal, said liquid containing a quantity of said metal salt which is in sufficient amount to completely develop the said latent contrasts in all the sheets but which is less than three times said amount for a time sufficient to completely develop the said latent contrasts.

2,609,296

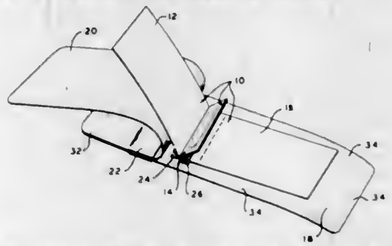
COMPOSITE PHOTOGRAPHIC PRODUCT COMPRISING A PHOTOSENSITIVE ELEMENT AND A CONTAINER CARRYING A LIQUID FOR PROCESSING SAID ELEMENT

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application May 21, 1945, Serial No. 594,892

18 Claims. (Cl. 95—8)

1. As a new article of manufacture, in combination, a magazine, and a film unit held by said magazine; said film unit comprising a pair of liquid-confining layers at least one of which includes a photosensitive portion capable of having an image formed therein upon photoexposure, a pair of light-excluding layers opaque to light actinic to said photosensitive portion, a rupturable containing means holding a processing liquid for said photosensitive portion, means for securing together said four layers and said rupturable containing means so that said light-excluding layers are hinged together and so as to permit said light-excluding layers and said liquid-confining layers to be superposed with said containing means positioned for releasing its liquid content between said liquid-confining layers and with said light-excluding layers forming an outer light-tight enclosure for said photosensitive portion preventing the light from reaching the same, and an envelope which is slidably mounted on said film unit to enclose said photosensitive layer and protect the latter from premature exposure to light actinic thereto; said magazine comprising means defining a first withdrawal passage, means defining a second withdrawal passage, and means for holding a photosensitive layer framed for exposure; said film unit being mounted in said magazine so that said photosensitive portion is held in exposure position by said framing means and so that the part of said unit adjacent the hinge extends through said first withdrawal passage to the exterior of said magazine, the one of said light-excluding layers normally covering the side of said film unit through which said photosensitive portion is to be exposed being pivoted back away from said portion in said magazine, the end of said envelope extending through said second withdrawal passage and being capable of removal from said film unit and said magazine through said second withdrawal passage, said light-excluding layers being operative, upon withdrawal of said film unit from said first passage to form a protective barrier for said photosensitive portion to prevent the fogging thereof.



6. A photographic product containing a photosensitive element, a photographic reagent capable of processing said element, and processing liquid in sufficient quantity to render said reagent effective for processing said element, said photosensitive element comprising as a photosensitive material thereof a heavy metal salt capable of forming a latent image upon photoexposure and capable of development to produce a visible image comprising the metal of said salt, said product comprising a first layer, a second layer, a rupturable containing means holding said processing liquid, a third layer substantially opaque to visible light actinic to said photosensitive element, a fourth layer substantially opaque to visible light actinic to said photosensitive element, hinge means providing a leader, and an envelope having walls which are opaque to visible light actinic to said photosensitive element, said hinge means, said first and second layers and said containing means being so attached together as to permit said first and second layers to be superposed with said photosensitive element held between the outer surfaces thereof and with said containing means in a position to release its liquid between said first and second layers to permeate said photosensitive element, said processing liquid, upon release from said containing means, rendering said reagent effective to process said photosensitive element, said third and fourth layers being secured together by said hinge means so as to be superposable on both sides of said first and second layers when the latter are superposed, said envelope surrounding at least said photosensitive element to protect the latter against premature exposure to light actinic thereto, said envelope having an end thereof extending beyond the end of the remainder of the product, said envelope end being located at the opposite end of said product from said hinge means, said envelope being slidably associated with said photosensitive element so as to be readily slipped therefrom when moved in a direction away from said leader, said four layers, said photosensitive element and said containing means being movable as a unit together with said leader, said third and fourth layers, when superposed upon one another, enveloping said photosensitive element to protect the latter from light actinic thereto subsequent to the exposure thereof and the removal therefrom of said envelope.

2,609,297

PROCESS OF PROTECTING FATTY AND PHOSPHOROUS LIPOIDIC FOOD PRODUCTS, PARTICULARLY MILK AND DAIRY PRODUCTS, MARGARINE AND THE LIKE, AGAINST GETTING UNPLEASANT TASTE OR FLAVOR

Charles Gunnar Ebbe Sjöström, Alnarp, Akarp, and Åke Valdemar Larsson, Linkoping, Sweden

No Drawing. Application September 12, 1949, Serial No. 115,316. In Sweden September 11, 1948

9 Claims. (Cl. 99—57)

1. A process of protecting milk, butter, margarine and other edible dairy products against acquiring an unpleasant flavor, comprising incorporating with the dairy product to be protected a relatively small amount of a protective agent, said protective agent prior to the incorporation thereof with the dairy product to be protected formed from a starting material comprising an aqueous solution of a reducing sugar, subjecting said starting material, with the exclusion of air, at a temperature in the range of from about 80° C. to about 95° C., to a treatment with alkali added to said starting material first in an amount to raise the pH thereof to at least about 9, and not materially above 11.5, and then successively adding further amounts of alkali to repeatedly raise the pH of the material after it has fallen, said treatment of the material with alkali at a pH of at least about 9 thus being prolonged for a sufficient period to impart the protective properties to said treated material which constitutes the protective agent.

2,609,298

FLAVORING MATERIAL FOR BAKED FARINACEOUS GOODS AND PROCESS OF MANUFACTURING BAKED FARINACEOUS GOODS

George W. Kirby, Yonkers, N. Y., assignor to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

No Drawing. Application May 28, 1951, Serial No. 228,780

10 Claims. (Cl. 99—91)

1. A dry free-flowing composition for flavoring baked farinaceous goods comprising a compound of the group consisting of edible solid organic mild flavored food acids and edible solid mild flavored salts thereof, and a compound of the group consisting of acetic acid, propionic acid and edible salts of these acids, said compounds being present in the proportion of about 75% to 95% of the former to 5% to 25% of the latter.

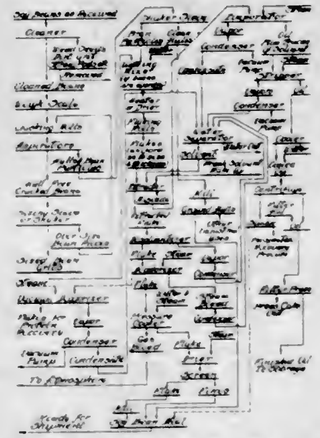
2,609,299

TREATMENT OF SOYA BEANS

Philip A. Singer and Harold J. Deobald, Peoria, Ill., assignors to Allied Mills, Inc., a corporation of Indiana

Application September 27, 1949, Serial No. 117,957

9 Claims. (Cl. 99—98)



1. The method of preparing clean soy beans for solvent extraction of oil which comprises cracking the beans to form grits, separating the hulls from the grits, sorting the grits by size and returning all grits larger than a predetermined size for further cracking, adjusting the moisture content and temperature of the sized grits to permit rolling of the grits into substantially flat flakes of high tensile strength and resistance to breakage in a solvent extraction process, and then rolling the grits into flakes of substantially uniform size and thickness.

2,609,300

STABILIZED EMULSIONS AND PROCESS OF PRODUCING THE SAME

Arnold B. Storrs, Palos Heights, and James R. Froedge, Homewood, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application March 14, 1951, Serial No. 215,633

19 Claims. (Cl. 99—123)

1. A heat sterilizable, stable oil-in-water type emulsion containing as an emulsifier therefor a fatty acid substituted protein hydrolyzate in which the fatty acid portion is at least 50% by weight of the protein hydrolyzate portion.

2,609,301

FOOD PACKAGE

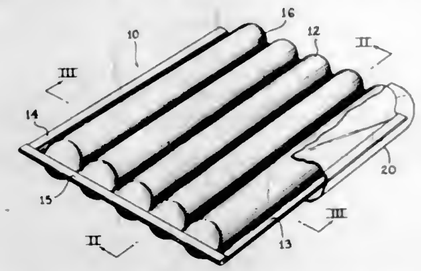
Frederick W. Lindsey, Baltimore, Md.

Application April 5, 1949, Serial No. 85,642

1 Claim. (Cl. 99—174)

A marketable package of frankfurters for heating in the unopened condition of the package, said marketable package comprising a plurality of frankfurters in flat side-by-side relation, and a wrapping of sheet metal foil substantially con-

sisting of aluminum surrounding and enclosing the frankfurters as a group in substantial conformity to the shape of the group and to the shape of the individual frankfurters and in intimate contact therewith, said wrapping having at least one overlapping seam of double thickness forming a heat welt adjacent to the frankfurters to facilitate distribution of heat and handling of the heated package.



2,609,302
RUST INHIBITING MATERIAL
Howard N. Copthorne, Winnetka, Ill.
No Drawing. Application August 3, 1949, Serial No. 108,435
10 Claims. (Cl. 106—14)

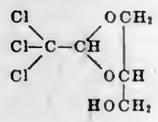
1. A rust inhibitive preparation resulting from the reaction of a mixture comprising from approximately 40% to 75% by weight of a mixture of fatty acids each having not less than sixteen carbon atoms in its molecular structure, from approximately 22% to 53% by weight of lead oxide, and from approximately 2.5% to 7% by weight of sulphur at a temperature below 500° F.

2,609,303
COMPOSITION OF MATTER FOR MAKING ARTIFICIAL LUMBER
George M. Harris, Macon, Ga., assignor of one-half to Harold A. Cook, Atlanta, Ga.
No Drawing. Application January 21, 1948, Serial No. 3,566
2 Claims. (Cl. 106—163)

1. Composition of matter comprising approximately 128 parts of comminuted wood mixed with a binder having the proportions of approximately 12 parts of 40% formaldehyde solution, 1 to 2 parts of sulphuric acid and 16 parts of starch.

2,609,304
PLASTICIZED CELLULOSE TRIACETATE
Harry Jones, Rochdale, and John Kempton Aiken, Sale, England, assignors to The Geigy Company Limited, Manchester, England, a British company
No Drawing. Application February 20, 1948, Serial No. 9,968. In Great Britain February 24, 1947
1 Claim. (Cl. 106—176)

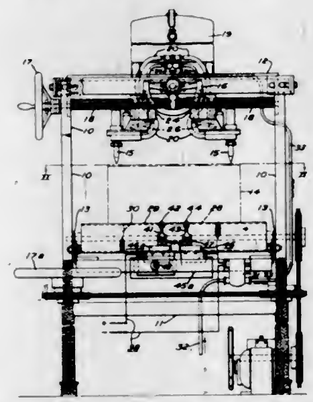
Plastic mass comprising cellulose acetate having a combined acetic acid content of about 62.5% and as a plasticizer a cyclic acetal of the following formula



2,609,305
PROCESS FOR PREPARING ASPHALT COATED AGGREGATE
Joseph C. Roediger, Brooklyn, N. Y., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 24, 1947, Serial No. 763,199
3 Claims. (Cl. 106—281)

1. The process for the preparation of a bituminous composition which comprises segregating a mineral aggregate into portions of different particle sizes and treating said portions with the vaporized monomer of methyl trichlorsilane, portions of the mineral aggregate having larger particle sizes being treated with lower concentrations of vaporized halide silane than portions of the mineral aggregate having smaller particle sizes and thereafter mixing said treated aggregate with an asphalt.

2,609,306
METHOD AND APPARATUS FOR GLUE-SPOTTING CONTAINERS
Felice George Pasotti, Muncie, Ind., assignor to Ball Brothers Company, a corporation of Indiana
Application February 24, 1948, Serial No. 10,410
8 Claims. (Cl. 117—37)



2. In a glue-spotting apparatus, a glue-spotting nozzle; a valve for controlling the delivery of glue therefrom; actuating means for said valve; impelling means for delivering successive containers up to and beyond a glue-spotting position relatively to said nozzle; an electrical control mechanism for said valve actuating means including a control circuit; a normally open switch and a normally closed switch located in series in said circuit; and a control device for each such switch projecting into the line of travel of containers impelled by said impelling means.

2,609,307
TREATMENT OF WOOL WITH ACID AMINOTRIAZINE RESIN COLLOIDS
Linton Avery Fluck, Pluckemin, and John Edward Lynn, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 14, 1949, Serial No. 127,277
11 Claims. (Cl. 117—141)

1. A process which comprises impregnating wool with an acidic colloidal aqueous solution of a polymerized, positively charged, aldehyde condensation product of an aminotriazine having at least two amino groups and a hydrogen atom attached to each amino nitrogen atom, said polymerized condensation product having a definite positive electric charge as shown by its migration toward the cathode on electrophoresis of the solution, said solution containing an amount of acid corresponding to 0.5–7 mols of acid per mol of monomeric condensation product, the take-up of the colloidal solution being such as to deposit in the wool from about 2.5%–15% by weight, based on the dry weight of the wool, of the polymerized aminotriazine-aldehyde condensation product and thereafter drying the impregnated wool whereby the aminotriazine-aldehyde condensation product deposited in said wool is in a substantially water-insoluble condition.

2,609,308
METHOD AND MATERIAL FOR PRODUCING COATINGS ON METAL
Robert C. Gibson, Birmingham, Mich., assignor to Parker Rust Proof Company, Detroit, Mich.
No Drawing. Application November 22, 1947, Serial No. 787,621
9 Claims. (Cl. 148—6.17)

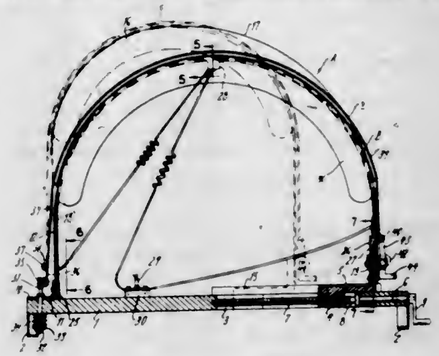
1. The process of producing a phosphate coating on a ferrous surface, which consists in applying to the surface a solution consisting essentially of water, acid phosphate of an alkali metal and an oxidizing agent of the group consisting of nitrites, sulphites, chlorates and bromates of the alkali metals, the oxidizing agent being present in an amount having an effect on the quality and rate of coating on the said ferrous surface substantially equal to that produced by .5% to 4% chlorate, and the solution having a pH of from 4.2 to 6, and continuing the application until a coating results.

2,609,309
MAGNESIUM ALLOY AND METHOD OF TREATMENT
Jerzy W. Meier, Ottawa, Ontario, Canada, assignor to Her Majesty the Queen in the right of Canada as represented by the Minister of Mines and Technical Surveys
No Drawing. Application January 22, 1949, Serial No. 72,260. In Canada October 7, 1948
2 Claims. (Cl. 148—21.90)

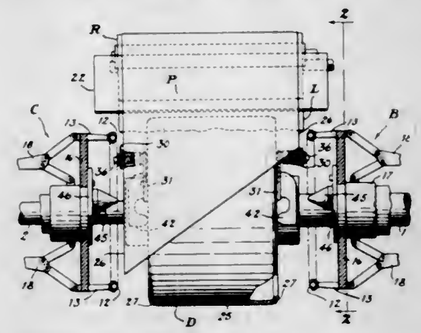
1. A method of developing strength and ductility in magnesium casting alloys consisting essentially of magnesium, substantially 6% zinc and not less than 0.7 nor more than 1% zirconium which comprises subjecting the cast alloy to a homogenizing treatment at a temperature of 425 to 500° C. for a relatively short period of time not exceeding 5 hours but sufficient to effect optimum homogeneity of the structure at the particular temperature employed and thereafter to an ageing treatment at a temperature not exceeding 150° C. for at least 24 hours and sufficient to develop in the casting an ultimate tensile strength not less than 42,000 p. s. i., and a yield strength substantially greater than 25,300 p. s. i.

2,609,310
BRAKE SHOE BONDING MACHINE
Harry B. Barrett, St. Louis, Mo.
Application September 10, 1949, Serial No. 115,075
5 Claims. (Cl. 154—1)

1. A brake shoe relining machine comprising a base, a flexible arcuate member, said member being fixedly attached at one end to the base and being adjustably mounted at its other end on the base, means for shifting the adjustably mounted end of the arcuate member toward the attached end for varying the curvature of the arcuate member, and a flexible clamping band operatively mounted on the base in outwardly spaced concentric relation to said arcuate member.



2,609,311
SUPPLEMENTAL SUPPORT FOR ASSEMBLING PLY MATERIAL BANDS
Max Engler, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application February 28, 1950, Serial No. 146,718
20 Claims. (Cl. 154—9)

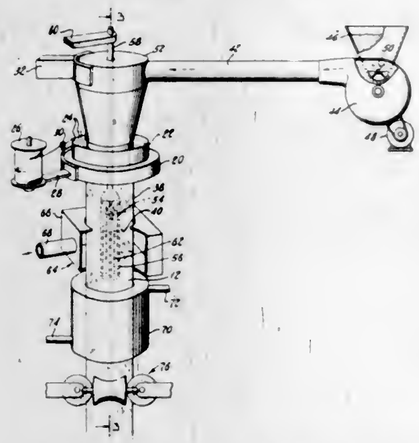


1. In combination in a ply band builder which includes a rotatable form about which strip ply material is drawn, the form having a substantially cylindrical ply receiving surface substantially concentric to the rotational axis of the form, a ply support roller and means rotatably mounting such roller at an end of the form in position to engage the concave side of a marginal edge portion of ply material projecting beyond the form end, the roller being disposed substantially wholly within the cylinder developed by the surface of the form, and the roller including a circular element substantially tangent to said cylinder.

16. In a flat band method of building a cord reinforced rubber tire wherein a strip of rubberized cord ply material is drawn onto a rotating drum to form a ply band having a substantially cylindrical portion disposed in embracing relation about the drum and a circular marginal portion which projects beyond the drum, and while the band is supported on the drum the said projecting marginal portion is moved radially inwardly relative to the cylindrical portion in the wrapping of a circular bead anchorage, the improvement which comprises applying internal

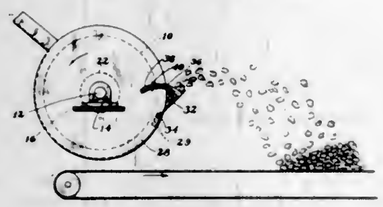
support to the projecting marginal portion of the ply material while the ply material is being drawn onto the rotating drum, the support being applied along a line disposed substantially in the cylindrical surface generated by the drum periphery whereby to hold the projecting marginal portion of the ply band substantially to the radius of the cylindrical portion of the band, and thereafter wrapping said marginal portion of the ply band about a bead anchorage while the cylindrical portion of the ply band remains on the drum.

2,609,312
METHOD AND APPARATUS FOR MAKING FLEXIBLE TUBULAR COVERINGS
Edward A. Farrell, North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application June 28, 1947, Serial No. 757,820
8 Claims. (Cl. 154—27)



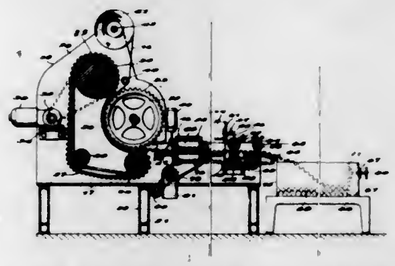
1. In the method of making a tubular covering, the steps comprising, fabricating a seamless, tubular sheath and substantially simultaneously therewith conveying a loose insulating material containing a thermo-plastic binder into the sheath and forming said loose insulating material into a tubular body within said sheath, heating the body to soften the binder and holding the tubular body against collapsing while cooling the binder.

2,609,313
METHOD AND APPARATUS FOR OPENING FIBROUS AGGLOMERATIONS
Joseph H. Zettel, Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application July 26, 1947, Serial No. 763,816
9 Claims. (Cl. 154—28)



2. A method of opening and tufting mineral wool nodules and of distributing a powdered binder therein comprising delivering the nodules to a restricted zone between a rotating brush and a semi-cylindrical surface generally concentric to the brush and including a roughened section to subject the nodules therebetween to a rolling, shearing and tearing action whereby the nodules are opened and the treating material is spread over the fibers thereof.

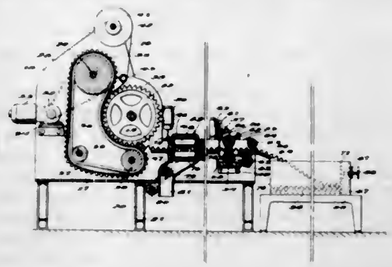
2,609,314
MACHINE FOR MAKING HONEYCOMB CORE MATERIAL
Harry C. Engel, Towson, and Willard W. Troxell and Theodore P. Pajak, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Original application October 30, 1946, Serial No. 706,672. Divided and this application January 31, 1951, Serial No. 208,700
4 Claims. (Cl. 154—30)



1. A machine for forming core material from a strip of partially cured phenolic resin impregnated fabric comprising a base frame having side members and a work platform, a material support means positioned for delivery of the fabric strip, a heater positioned to heat the strip, a revolvable cylinder mounted transversely of the work platform having regularly spaced members shaped as half-hexagonals mounted crosswise around the outer periphery of said cylinder, an endless conveyer belt, a plurality of members shaped as half-hexagonals mounted on the conveyor belt crosswise thereto and spaced for meshed engagement with the similarly formed members of the revolvable cylinder, a resilient drive belt positioned to carry the conveyer belt in meshed engagement with said cylinder for a predetermined enwrapped distance, drive means connected to the drive belt for maintaining successive meshed engagement between the half-hexagonal members to progressively work, shape and fix the shape of the heated strip as a series of half-hexagonals having flat bond areas equally disposed from a median plane.

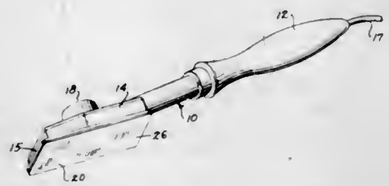
2,609,315
METHOD OF MAKING HONEYCOMB CORE MATERIAL
Harry C. Engel, Towson, and Willard W. Troxell and Theodore P. Pajak, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Original application October 30, 1946, Serial No. 706,672. Divided and this application January 31, 1951, Serial No. 208,699
5 Claims. (Cl. 154—33.05)

1. A method of forming structural material comprising first softening the resin in a partially cured strip of phenolic impregnated fabric by the application of heat, then forming the heated strip by passing said strip between forms shaped as half-hexagonals to provide spaced bond areas crosswise of the strip, fixing the shape of the strip by cooling, applying a coat of adhesive material to said bond areas, cutting the strip into



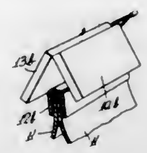
a plurality of strips, stacking the strips with the coated bond areas in contact and bonding by the application of heat to form a plurality of hexagonal cells.

2,609,316
THERMOSEALING DEVICE AND SOLE THEREFOR
Edwin C. Fichtner, Burlingame, Calif., assignor to Wells Manufacturing Company, San Francisco, Calif., a corporation of California
Application August 2, 1949, Serial No. 108,210
2 Claims. (Cl. 154—42)



1. A thermosealing device for closing thermoplastically sealed containers comprising an iron having a smooth sealing surface, a sole comprising a glass fabric sheet, a bonding agent on one side of said sheet securing same to said sealing surface, and a silicone releasing coating on the other side of said sheet.

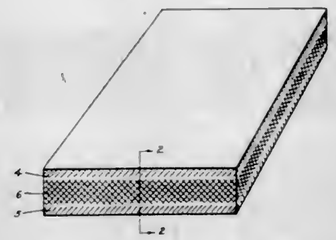
2,609,317
SEALING OF THERMOPLASTIC MATERIALS
Clarence W. Vogt, Norwalk, Conn.
Application October 7, 1948, Serial No. 53,333
1 Claim. (Cl. 154—43)



In combination, superposed layers of thermoplastic material which tends to shrink or wrinkle when heated to a temperature at which said layers soften and autogenously unite, and a strip of non-shrinkable sheet material having a coating which is susceptible of tackiness at room temperature and at the temperature of softening of

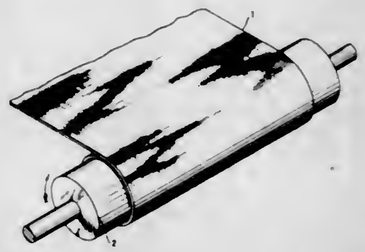
said layers, said strip having an edge portion secured to one of said layers and acting to prevent shrinking or wrinkling of said layers during heating and autogenous uniting of said layers, and having the opposite edge portion foldable around the edges of said layers whereby it may be adhesively secured to the outer surface of the other layer.

2,609,318
SILICON CARBIDE REFRACTORY ARTICLE
John P. Swentzel, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application December 8, 1949, Serial No. 131,854
7 Claims. (Cl. 154—43)



1. A bonded silicon carbide refractory article comprising a surface layer of silicon nitride-bonded silicon carbide, the silicon nitride thereof having the chemical formula Si_3N_4, said surface layer being integral with a main body portion comprising silicon carbide bonded by silicon nitride of the chemical formula Si_3N_4 and containing 2 to 25% of iron and manganese.

2,609,319
LAMINATED PIPE AND PROCESS OF MAKING SAME
Herbert E. Boge, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation
Application January 5, 1949, Serial No. 69,403
7 Claims. (Cl. 154—83)

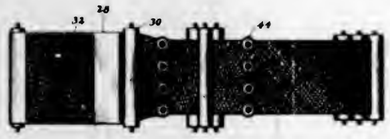


1. A laminated pipe composed of laminations of glass cloth bound together by a resin which is a polymer of a reaction mixture consisting essentially of a solution of polymeric nuclear dichlorostyrene in monomeric nuclear dichlorostyrene and a minor proportion of a cross-linking agent.

7. A process for manufacturing plastic pipe which comprises impregnating glass cloth with a solution consisting essentially of polymeric nuclear dichlorostyrene in monomeric nuclear dichlorostyrene and containing 0.1% to 10% by weight of a cross-linking agent, winding the im-

pregnated cloth onto a mandrel, polymerizing the monomeric constituents of the impregnating solution and removing the mandrel from the pipe.

2,609,320
METHOD OF MAKING FLEXIBLE UNWOVEN FABRIC
Piero Modigliani, Manhasset, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Original application May 29, 1947, Serial No. 751,481. Divided and this application December 9, 1950, Serial No. 200,020
11 Claims. (Cl. 154—90)



1. A method of forming an unwoven fabric comprising forming a condensed mat of a plurality of layers of filaments with the filaments extending generally transversely of the mat and with the filaments of adjacent layers crossing at acute angles, applying an unset binder to the mat, expanding the mat in a direction transversely of the general lay of the filaments to form an elongated web, and setting the binder.

2,609,321
CRAZE RESISTANT RESINOUS COATING, COATED PRODUCT, AND PROCESS OF MAKING IT
Donald G. Patterson, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 7, 1948, Serial No. 25,806
10 Claims. (Cl. 154—121)

1. A process for producing a laminated product having a craze resistant surface which comprises applying to the surface sheet of a laminate a thermosetting synthetic resin selected from the group consisting of urea-formaldehyde resins and melamine-formaldehyde resins, pigment and glass fibers in a volatile vehicle, drying said surface sheet and applying heat and pressure to said coating surface to produce a body having a substantial insoluble, infusible, craze resistant continuous film on the surface thereof, wherein said volatile vehicle is a solvent for the resin selected from the group consisting of water and an alcohol and is present in a weight ratio of said vehicle to said resin of between 1.5:1 to 5:1, and wherein said glass fibers and said resin are present in a weight ratio between 1:1 and 1:9, respectively, and wherein said glass fibers have a diameter of between 4–11 microns.

8. A resinous composition adapted to form a hard, craze-resistant coating on the surface of laminated articles comprising a uniform mixture of melamine-formaldehyde resin and glass fibers dispersed in a volatile vehicle selected from the group consisting of water and an alcohol, wherein the weight ratio of vehicle to resin is between 1.5:1 to 5:1, wherein said glass fibers have a diameter of between 4–11 microns and wherein the weight ratio of said resin to said fibers is between 1:1 to 9:1, respectively.

2,609,322
PRODUCTION OF PENICILLIN MOLD AND JELLY
Agnes J. Quirk, Washington, D. C.
No Drawing. Application September 6, 1951, Serial No. 245,415
10 Claims. (Cl. 167—58)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

9. A process comprising culturing *P. notatum* on a solid, sterile culture medium containing oxidized potato juice, dextrose, and agar to produce an activated mold, culturing the activated mold on a second sterile culture medium containing unoxidized potato juice to produce an aqueous mixture containing mold and dissolved penicillin, transferring the aqueous mixture to a third solid, sterile culture medium containing unoxidized potato juice, dextrose, and agar and allowing the mold to grow thereon to produce penicillin, removing the arising mold, and mechanically emulsifying the remainder of the culture medium to a jelly.

2,609,323
ALKYL VANILLATE OINTMENT
Irwin A. Pearl, Appleton, Wis., assignor, by mesne assignments, to Sulphite Products Corporation, Appleton, Wis., a corporation of Wisconsin
No Drawing. Application March 23, 1948, Serial No. 16,609
5 Claims. (Cl. 167—63)

1. A therapeutic product made up of an ointment base and containing as its effective ingredient a lower alkyl vanillate.

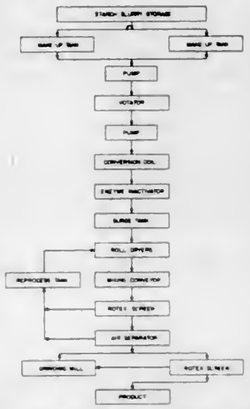
2,609,324
RECOVERY OF BACITRACIN
Murray Senkus and Peter C. Markunas, Terre Haute, Ind., assignors to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application October 12, 1949, Serial No. 121,060
6 Claims. (Cl. 167—65)

1. In a process for the recovery of bacitracin, the step which comprises extracting bacitracin from a solvent selected from the group consisting of butyl alcohol and amyl alcohol with an aqueous solution of an acid selected from the group consisting of phosphoric, pyrophosphoric, sulfuric and citric acid, said extraction mixture having a pH less than 4.0.

2,609,325
RECOVERY OF VITAMIN B_{12} FROM LIVER
Norman G. Brink, Princeton, and Thomas R. Wood, Murray Hill, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application April 3, 1948, Serial No. 18,854
1 Claim. (Cl. 167—81)

The process for recovering vitamin B_{12} from a liver concentrate having an activity for *Lactobacillus lactis* Dorner in excess of 1,000 units per milligram which comprises passing a methanol solution of said concentrate over a column of activated alumina to adsorb said vitamin B_{12}, eluting said column with methanol, collecting the methanol eluate in successive fractions, retaining those fractions which have relatively high activity for *Lactobacillus lactis* Dorner and discarding the other fractions, recovering a concentrate containing vitamin B_{12} in an enhanced state of purity from the retained fractions of the methanol eluate, purifying said vitamin B_{12} concentrate by counter-current distribution between water and a mixture of ortho-cresol and toluene displacing the active material to the water phase by adding chloroform, and precipitating the vitamin B_{12} in crystalline form by treating the aqueous solution with acetone.

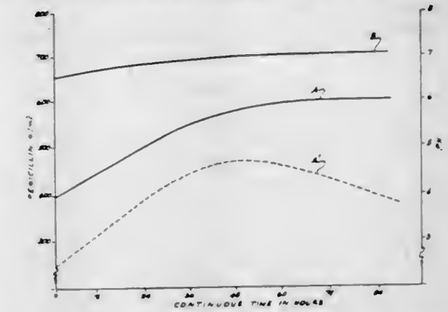
2,609,326
COLD WATER DISPERSIBLE STARCH PRODUCT AND METHOD OF PREPARING THE SAME
William Ward Pigman, Appleton, Wis., Ralph W. Kerr, Riverside, and Norbert F. Schink, River Forest, Ill., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
Application May 21, 1948, Serial No. 28,416
15 Claims. (Cl. 195—31)



1. The method of making readily cold water dispersible, cold water soluble laundry starch in dry form which comprises, preparing an aqueous slurry of starch, subjecting said slurry to simultaneous hot water gelatinization and mechanical disruption in colloidal solution at a temperature at least as high as the normal gelatinization temperature of the starch, so as to obtain a dispersion of substantially all of the starch molecules, enzyme converting said starch at elevated temperature with an enzyme characterized by its ability to hydrolyze starch molecules at elevated temperature into relatively large, substantially non-reducing segments, inactivating the enzyme, and drying the starch solution to a dry product.

2,609,327
CONTINUOUS PROCESS FOR PENICILLIN PRODUCTION
Paul J. Kolachov and William C. Schneider, Louisville, Ky., assignors to Joseph E. Seagram & Sons, Inc., Shively, Ky., a corporation of Indiana
Application December 10, 1948, Serial No. 64,684
9 Claims. (Cl. 195—36)

9. A single-stage continuous process for producing penicillin by submerged culture which comprises: propagating and fermenting penicillin-producing mold by submerged culture in a nutrient pool until a substantially level concentration of at least about 600 units penicillin per milliliter is produced therein; then gradually adding to said pool a nutrient solution comprising lactose and a rapidly assimilable sugar; and withdrawing penicillin containing solution from the pool at substantially the same rate as nutrient solution is introduced, the rate of withdrawal of nutrient being such that the fermentation in the pool goes substantially to completion



to maintain a substantially uniform level of penicillin concentration of at least 600 units in the pool.

2,609,328
SEPARATION OF CELLULAR ORGANISMS FROM AQUEOUS SUSPENSIONS THEREOF
Lionel C. Reed, Mount Vernon, N. Y., assignor to Schwarz Laboratories, Inc., a corporation of New York
No Drawing. Application September 3, 1948, Serial No. 47,754
20 Claims. (Cl. 195—57)

1. The process of facilitating the separation of suspended organic matter from an aqueous slurry of organisms by coagulation of said solids by the addition of boron compound that yields borate ions in aqueous solution at pH 6.0 to 10.5.

2,609,329
PROCESS FOR PRODUCING AUREOMYCIN
Joseph G. Niedercorn, Pearl River, N. Y., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application December 15, 1948, Serial No. 65,512
10 Claims. (Cl. 195—80)

1. A process for the production of aureomycin comprising preparing a medium comprising approximately sucrose 3 to 5%, ammonium sulfate 0.1 to 0.4%, corn steep liquor 1 to 3% and calcium carbonate 0.25 to 1%, said calcium carbonate providing calcium ions in an aureomycin-precipitating quantity, sterilizing the medium, inoculating the medium with a culture of *Streptomyces aureofaciens*, and permitting the growth of the *Streptomyces aureofaciens* until a commercially useful quantity of aureomycin is thereby produced.

2,609,330
MEDIUM FOR PRODUCTION OF PENICILLIN
Alfred R. Stanley, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application April 10, 1948, Serial No. 20,373
10 Claims. (Cl. 195—100)

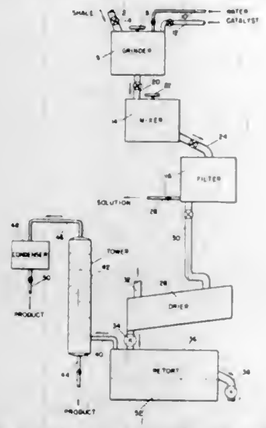
7. In a method for the production of penicillin by fermentation of a nutrient medium with a penicillin-producing microorganism, the improvement which consists of carrying out said fermentation in a nutrient medium containing as an essential ingredient the water-insoluble residue from water-extraction of a meal selected from the group consisting of cottonseed meal and soybean meal.

2,609,331

PYROLYTIC CONVERSION OF OIL SHALE

Leroy K. Cheney, Lansing, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application June 17, 1947, Serial No. 755,231
3 Claims. (Cl. 202—11)



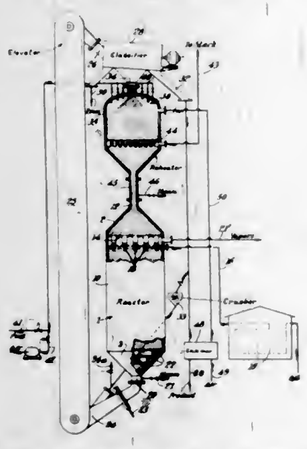
1. In the process of producing shale oil from oil shale, including the retorting of the oil shale, the improvement which comprises grinding the oil shale to be processed with water to form a slurry, treating the slurry with a material selected from the group consisting of hydrochloric acid, hydrofluoric acid, and hydrogen fluoride in an amount equal to 0.5 to 6% by weight of the oil shale in the slurry while thoroughly mixing said material with the slurry thereby catalytically activating inorganic constituents of the oil shale, filtering the slurry to remove excess water, drying the filtered oil shale, and subjecting it to a retorting operation and producing shale oil therefrom.

2,609,332

HYDROCARBON CONVERSION

Vernon O. Bowles, Rye, and August H. Schutte, Hastings on Hudson, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application August 25, 1948, Serial No. 46,167
6 Claims. (Cl. 202—14)



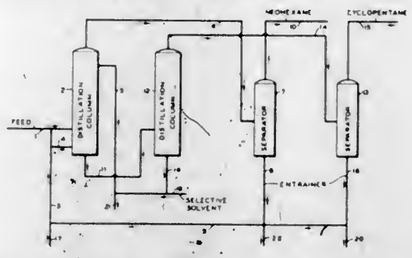
5. In a closed system for the continuous conversion of heavy residual oils into coke and lighter hydrocarbons by application of said oils to a gravity packed downwardly moving column of preheated coke particles, the combination comprising an upright reactor vessel having a particle inlet at its upper end and a particle outlet at its lower end, means for feeding heavy residual oil into the upper portion of the reactor vessel, means for withdrawing lighter hydrocarbons from the reactor vessel adjacent the oil feeding position, means for controlling the passage of coke particles through said particle outlet, an upright particle reheater chamber, said reheater chamber having a particle outlet at its lower end connected directly with the particle inlet of the reactor vessel, particle transfer conduit means extending between the particle outlet of the reactor vessel and the inlet of the particle reheater chamber, a product particle drawoff line in said transfer conduit means, a coke particle calciner of the combustion type connected in said particle drawoff line, and another line carrying the products of combustion from the calciner to the upper end of the particle reheater chamber, said reheater chamber being provided with means below said upper end for removing the products of combustion thus supplied.

2,609,333

AZEO-EXTRACTIVE DISTILLATION

James H. Boyd, New York, N. Y., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 30, 1948, Serial No. 41,454
6 Claims. (Cl. 202—39.5)



1. The method of resolving a hydrocarbon mixture comprising cyclopentone and neohexane which comprises distilling said mixture in the presence of methyl formate to form an azeotrope with said neohexane and in the presence of furfural to depress the volatility of said cyclopentane; recovering a mixture of methyl formate and neohexane substantially free from cyclopentane as the overhead product of said distillation; separating the mixture of methyl formate and neohexane so as to recover neohexane by contacting the mixture with furfural; and recovering furfural and cyclopentane as the kettle product of said distillation.

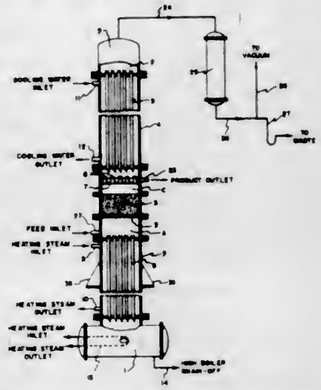
2,609,334

FALLING-FILM FRACTIONATION

Cyrus Pyle, New Castle, Del., and James A. Lane, Oak Ridge, Tenn., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application May 7, 1949, Serial No. 91,941
4 Claims. (Cl. 202—40)

1. In an apparatus for film-type fractionation of heat-sensitive materials comprising, in combination, a vaporizing unit or zone having a multiplicity of film-forming channels therein, means for introducing heat-sensitive material into the multiplicity of channels to flow in film form downwardly therein, a heating chamber below said vaporizing unit in position to collect unvaporized material from said channels, an upper condensing unit or zone having a multiplicity of similar film-forming channels therein, a product collection chamber interposed between said vaporizing unit and said condensing unit and having a product outlet therefrom, a multiplicity of vapor channels extending through the bottom of said collection chamber and terminating at a level just above the product outlet so that vapors from said vaporizing zone may pass to said condensing zone, countercurrent to said down-flowing condensate.

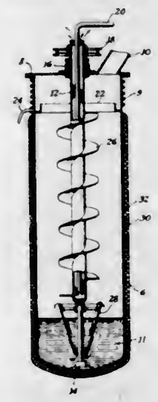


2,609,335

FRACTIONAL DISTILLATION PROCESS AND APPARATUS

Kenneth C. D. Hickman, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 2, 1944, Serial No. 533,796
12 Claims. (Cl. 202—40)



11. The process which comprises passing an annular stream of vapors along an upwardly directed path between concentric surfaces, condensing portions of said vapors out of said stream onto one of said surfaces, centrifugally conveying the resulting condensate portions across said stream of vapors onto the other of said surfaces, partially revaporizing said condensate portions from said last-named surface back into said stream of vapors, flowing the unvaporized residue of said condensate portions downwardly over said last-named surface in the form of a thin film, repeating said condensing and revaporizing at successively higher levels along said path, totally condensing said vapors in an upper zone along said path, and collecting and withdrawing product from said upper zone.

2,609,336

AZEOTROPIC DISTILLATION OF PROPIONAMIDE

Walter M. Bruner, Wilmington, and Eugene Turner Darden, New Castle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 25, 1950, Serial No. 181,556
10 Claims. (Cl. 202—42)

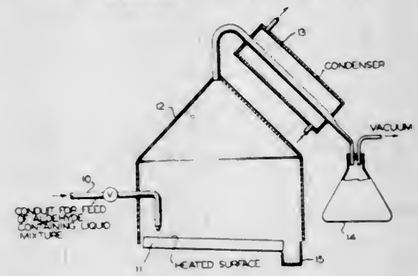
1. In a process for purifying propionamide the step which comprises distilling propionamide azeotropically with normal alkane having from 10 to 12 carbon atoms per molecule.

2,609,337

DISTILLATION OF LIQUID MIXTURES CONTAINING ALDEHYDES AND COBALT

Arthur William Charles Taylor and Norvik Ackroyd, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

Application September 9, 1948, Serial No. 48,536
In Great Britain September 12, 1947
7 Claims. (Cl. 202—53)



1. A process for the treatment of a liquid mixture containing an aldehyde and at least one substance selected from the group consisting of cobalt and cobalt compounds which comprises the step of subjecting the liquid mixture to flash distillation and recovering the aldehyde as an overhead fraction.

2,609,338

ELECTRODEPOSITION OF CADMIUM-TIN ALLOY

Russell D. Gray, Jr., Haworth, and William A. Paecht, West Caldwell, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware

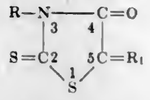
No Drawing. Application December 1, 1948, Serial No. 62,966
6 Claims. (Cl. 204—43)

1. The method of electrodepositing a cadmium-tin alloy on a metallic body comprising the steps of immersing said body in a bath of cadmium fluoborate and stannous fluoborate having a pH of approximately 3 to 5 and having approximately 80 parts of cadmium to 20 parts of tin; immersing cadmium and tin electrodes in said bath, 75% of the surface area of said electrodes being tin with the balance cadmium; and con-

necting said body and electrodes to a source of electric current for current flow through said bath in a direction such that said electrodes constitute anodes and said body constitutes a cathode.

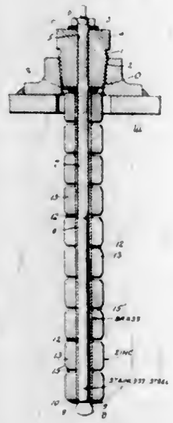
2,609,339
BRIGHT COPPER PLATING FROM CYANIDE BATHS
Frank Passal, Detroit, Mich., assignor to United Chromium, Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application November 2, 1948, Serial No. 58,026
4 Claims. (Cl. 204—52)

3. An aqueous cyanide type of bath for electroplating copper having as its essential constituents Cu—20 to 55 grams per liter, free KCN—5 to 13 grams per liter, KOH—7.5 to 30 grams per liter, and 0.005 to 1 gram per liter of a brightener addition having the general formula



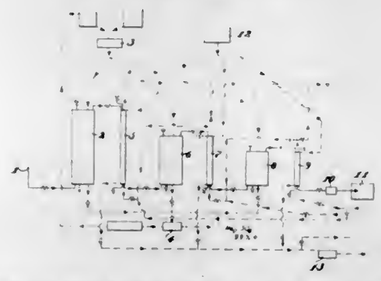
in which R is a substituent selected from the class consisting of hydrogen, aliphatic, and aromatic substituents, and in which R_1 is a substituent selected from the class consisting of (1) hydrogen sufficient to saturate the number five carbon atom to which said R_1 is attached, (2) an aliphatic substituent connected to said number five carbon atom through a double bond, and (3) an aromatic substituent connected to said number five carbon atom through a double bond.

2,609,340
CORROSION INHIBITOR FOR HEAT EXCHANGERS AND THE LIKE
Robert E. McMahon and Edward F. McMahon, Seattle, Wash.
Application February 21, 1949, Serial No. 77,502
4 Claims. (Cl. 204—197)



1. A corrosion inhibiting device for containers of water having corrosive tendencies; said device comprising a base plug having means externally of one end thereof operable to effect self-supporting attachment of said plug in an opening in a wall of the container, a rod carried by and disposed axially of said plug projecting therefrom into the interior of the container, a plurality of replaceable anode elements carried by said rod; each of said anode elements comprising a metal sleeve component through which said rod extends and a sacrificial component comprising an annular body of another metal of less length than said sleeve component surrounding and firmly bonded to the exterior of said sleeve component, means on the distal end of said rod engagable with the distal end of the anode element most remote from said plug, and other means including a screw thread on the proximal end of said rod operable to draw said distal end of said rod toward said plug with resultant clamping of said anode elements in aligned end to end relation on said rod between said distal end thereof and the end of said plug; said sleeve components of said anode elements being formed of a metal which is higher in the replacement series of metals than said sacrificial components thereof and which is lower in said series than said rod.

2,609,341
METHOD OF PURIFYING WATER
Walter Juda, Cambridge, Mass., assignor, by mesne assignments, to Ionics, Incorporated, Cambridge, Mass., a corporation
Application September 25, 1947, Serial No. 776,143
10 Claims. (Cl. 210—24)



1. The method of treating water containing cations in solution to replace cations therein with other cations, comprising the cyclical operation of alternately passing the water through a bed of solid water-insoluble cation exchange material in one direction, thereby substituting a cation from said exchange material for cations in the water, and passing a regenerant solution, containing regenerant cations in a concentration of no more than one equivalent per liter, in the opposite direction through said bed in an amount sufficient to regenerate said bed to less than about two-thirds of its total ion exchange capacity, thereby to establish a gradient ion exchange capacity through said bed, the flow through said bed being controlled throughout to maintain substantially the existing gradient of ion exchange capacity.

2,609,342
LUBRICANT
James R. White, Wenonah, and Orrin H. Clark and Warren W. Woods, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application December 3, 1949, Serial No. 131,045
3 Claims. (Cl. 252—25)

1. A lubricant consisting essentially of a liquid selected from the group consisting of glycerine and ethylene glycol, containing from about 0.5 per cent by weight and up to about 90 per cent by weight of a comminuted solid selected from the

group consisting of molybdenum disulfide, titanium disulfide, tin disulfide, zirconium disulfide and tungsten disulfide.

2,609,343
OXIDATION INHIBITOR FOR LUBRICATING OILS
Charles E. Saunders and Charles M. Murphy, Jr., Washington, D. C.
Application July 12, 1948, Serial No. 38,196
5 Claims. (Cl. 252—46.3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A composition of matter comprising an alkyl diester of an organic dicarboxylic acid and an oxidation-inhibiting amount of a compound selected from the group consisting of phenothiazine, phenoselenazine, and phenotellurazine.

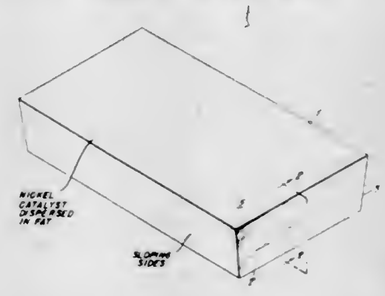
2,609,344
PREVENTION OF FOAMING IN STEAM GENERATION
Carl E. Johnson, Westchester, Ill., assignor to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 14, 1948, Serial No. 44,392
16 Claims. (Cl. 252—321)

1. A process of minimizing the production of foam in and the priming of steam generators operating under superatmospheric pressure conditions which comprises incorporating with a water therein containing an amount of total solids tending to produce foaming and priming a minor quantity of a diether of a polyoxyalkylene glycol characterized by a total average molecular weight of at least 500 and a chemical structure in which the polyoxyalkylene chain contains at least one oxymethylene group, said diether being substantially insoluble in said water under said steam generating conditions and said quantity being sufficient substantially to inhibit foaming and priming.

2,609,345
REGENERATION OF A FIXED-BED FISCHER-TROPSCH CATALYST
Joseph C. Easly and Hugh L. Kellner, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application July 14, 1949, Serial No. 104,817
6 Claims. (Cl. 252—419)

1. The process of regenerating a fixed bed of solid synthesis catalyst which is contaminated with carbonaceous deposits from use in the synthesis of hydrocarbons by the reaction between carbon monoxide and hydrogen, under conditions such that heat evolved in the regeneration is removed from the catalyst bed substantially only with the exit gases, which comprises continuously introducing into the bed of contaminated catalyst a mixture of an inert gas and an oxygen-containing gas at an inlet temperature of about 650° to about 850° F., flowing said mixture through said catalyst bed whereby the carbonaceous deposit on said catalyst is burned off, and limiting the maximum temperature attained in the catalyst bed by controlling the ratio of inert gas to oxygen and the rate of flow of said gaseous mixture to maintain a temperature difference between said inlet temperature and the maximum temperature of the catalyst bed of less than about 300° F.

2,609,346
PREPARATION OF A NICKEL CATALYST DISPERSED IN FAT
Seymour Faulkner, Summit, N. J., assignor to Catalytic Chemicals Division of E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware
Application September 1, 1948, Serial No. 47,170
7 Claims. (Cl. 252—430)



1. A method of making a catalyst body which comprises providing a mixture of finely divided reduced nickel, a glyceride fat and a filter aid in the following proportions:

	Per cent
Glyceride fat	48–70
Active nickel	20–32
Filter aid	10–20

said glyceride having a melting point of 105° F. to 150° F., said mixture being at a temperature below 200° F. and above said melting point, pouring said mixture into a mold at a temperature not over 60° F. to a depth of 1 to 3 inches, whereby a small portion of the contained molten fat will rise to the surface to form an impervious film, while said mixture is cooling to a solid without substantial segregation of said nickel.

2,609,347
METHOD OF MAKING EXPANDED POLYVINYL ALCOHOL-FORMALDEHYDE REACTION PRODUCT AND PRODUCT RESULTING THEREFROM
Christopher Lumley Wilson, Notre Dame, Ind.
No Drawing. Application May 27, 1948, Serial No. 29,657
11 Claims. (Cl. 260—2.5)

1. The method of making a sponge material having interconnected pores by reacting polyvinyl alcohol and formaldehyde, which comprises: providing an aqueous solution of formaldehyde, polyvinyl alcohol containing less than 10% residual hydrolyzable material in the molecule, an acid catalyst in which the acid functional group is inorganic and having a dissociation constant of at least 10^{-2} and a froth-stabilizing wetting agent soluble in and substantially stable to said solution; forming a substantially stable and homogeneous froth with said solution stabilized with the wetting agent; reacting the polyvinyl alcohol and formaldehyde in the solution thereby causing gellation and solidification of the froth with the production of interconnected pores simultaneously with the progression of the reaction, the froth being formed prior to appreciable reaction between the polyvinyl alcohol and the formaldehyde; and stopping said reaction when approximately 35–80% of the hydroxyl groups of the polyvinyl alcohol have been reacted with the formaldehyde.

2,609,348

SHORT-OIL ALKYD RESIN OF LOW ACID NUMBER AND METHODS OF PREPARING THE SAME

Robert N. Du Puis, Northbrook, Ill., and Howard J. Wright, Kaukauna, Wis., assignors to Association of American Soap & Glycerine Producers, Inc., a corporation of Delaware

No Drawing. Application May 3, 1946, Serial No. 667,118

1 Claim. (Cl. 260—22)

A short oil alkyd resin having an acid number below 15 and being capable of acting as the sole film-forming constituent in a surface coating composition, comprising essentially the reaction product of 20 to 40 mole per cent of glycerine, 40 to 45 mole per cent of phthalic anhydride, 10 to 20 mole per cent of a vegetable oil fatty acid, and between 5 and 15 mole per cent of glyceryl monophthalimide, wherein the fatty acid plus the glyceryl monophthalimide comprises approximately 20 to 25 mole per cent of the reaction mixture.

2,609,349

RESINOUS COMPOSITIONS OF STYRENE, CASTOR OIL, AND A DIISOCYANATE

William E. Cass, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application February 4, 1950, Serial No. 142,539

24 Claims. (Cl. 260—23)

1. A composition of matter comprising (1) castor oil, (2) styrene and (3) an organic diisocyanate.

2,609,350

TEXTILE FINISHING AGENT

Carl Spatt, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 21, 1946, Serial No. 717,821

6 Claims. (Cl. 260—29.6)

5. A composition adapted for use as a textile size for cellulosic materials, consisting of a solution in water of polyvinyl alcohol and a synthetic resin obtained by polymerizing maleic anhydride, together with an excess of up to four times the weight thereof of a compound capable of being polymerized and containing a single $>C=CH_2$ group, and an amount of a basic substance such that said solution has a pH of from 3.0 to 4.5, said polyvinyl alcohol and said synthetic resin being present in such proportions that at least an equivalent amount up to three parts by weight of polyvinyl alcohol are present for each part of said synthetic resin, said solution having a pH less than 3 in the absence of said basic substance.

2,609,351

PROCESS FOR THE PREPARATION OF RAPIDLY HARDENING CAST RESINS FROM PHENOL AND FORMALDEHYDE AND TENSION-FREE CASTINGS PREPARED THEREFROM

Willem Johan Taat and Rudolf Willem van Hoesen Korndorffer, Delft, Netherlands, assignors to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek, ten behoeve van Nijverheid, Handel en Verkeer, The Hague, Netherlands, a corporation of the Netherlands

No Drawing. Application February 9, 1949, Serial No. 75,493. In the Netherlands March 25, 1948

15 Claims. (Cl. 260—44)

1. A process of producing a rapidly hardening cast resin which comprises reacting phenol and formaldehyde in an alkaline medium to form a reaction mixture, acidifying said reaction mixture to a pH of about 4, completely dehydrating said reaction mixture, mixing therewith a minor amount of maleic anhydride and heating the resultant mixture of phenol formaldehyde reaction product and maleic anhydride to form a cast resin.

2,609,352

PROCESS FOR PREPARING MONOMERIC STABLE METHYLOLPHENOL COMPOSITIONS

Hamline M. Kvalnes, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 22, 1951, Serial No. 227,761

15 Claims. (Cl. 260—45.1)

1. A process for preparing a stable, clear polymethylolphenol liquid which comprises heating from 4.0 to 10.0 mols of monomeric formaldehyde per mol of phenol at a temperature within the range of 60° C. to 100° C. at a pH within the range of 7.0 to 9.5 until the free formaldehyde content of the resulting mixture is less than 35% by weight, and cooling the mixture to below 30° C., said formaldehyde reactant being employed in the form of aqueous formaldehyde containing 58% to 65% by weight of formaldehyde based on the total weight of formaldehyde plus water, said phenol reactant being employed in the form of phenol containing not more than 20% by weight of water based on the weight of phenol plus water.

2,609,353

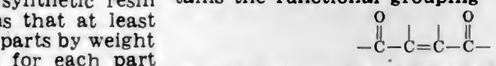
POLYMERIZABLE COMPOSITION OF STYRENE, UNSATURATED ALKYD RESIN, AND ELASTOMER

Louis C. Rubens and Raymond F. Boyer, Midland, Mich., assignors to The Dow Chemical Company, a corporation of Delaware

No Drawing. Application July 10, 1946, Serial No. 682,593

6 Claims. (Cl. 260—45.4)

3. A resin-forming composition useful in laminating processes consisting essentially of a monomeric polymerizable nuclear monovinyl aromatic compound, from 0.5 to 10 per cent by weight thereof of a polymerization catalyst consisting of an unsaturated alkyd resin which contains the functional grouping



repeated along the poly ester chain, and from 2 to 15 per cent by weight of an elastomer.

2,609,354

MODIFIED RESINS FROM POLYSTYRENES AND ESTERS OF SATURATED ALIPHATIC DICARBOXYLIC ACIDS AND UNSATURATED ALCOHOLS

Orville L. Polly, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application December 27, 1948, Serial No. 67,555

9 Claims. (Cl. 260—45.5)

1. A plastic, hard, non-brittle resin selected from the class consisting of modified polystyrene and modified poly alpha-methyl styrene resins obtained by heating to a temperature between 175° F. and 450° F. a mixture of a polymer of at least 50,000 molecular weight selected from the class consisting of polystyrene and poly alpha-methyl styrene with an ester selected from the group consisting of the allyl and methallyl esters of saturated aliphatic dicarboxylic acids having from 4 to 6 carbon atoms in the acid molecule and polymers of said esters having molecular weights below about 50,000, for a time sufficient to effect partial polymerization of said mixture and discontinuing said heating when the product has an average molecular weight intermediate between the molecular weight of the original polymer and 1.5 times the molecular weight of the original polymer, the molecular weights of the polymers being determined from intrinsic viscosities of the polymer solution in toluene using the equation:

$$\text{Intrinsic viscosity in toluene} = 3.7 \times 10^{-4} \times M^{0.6}$$

where M equals molecular weight.

2,609,355

STABILIZATION OF VINYL HALIDE POLYMERS WITH A COMPOSITION CONTAINING AN ESTER OF AN UNSATURATED ALCOHOL

De Loss E. Winkler, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 19, 1949, Serial No. 105,653

12 Claims. (Cl. 260—45.8)

12. As a composition of matter, a vinyl chloride polymer containing at least 70% by weight of vinyl chloride containing an ester of (1) an unsaturated alcohol possessing at least one olefinic linkage not more than 4 carbon atoms removed from the carbon atom bearing the hydroxyl group, and (2) a polycarboxylic acid, and a member of the group consisting of the epoxy-containing organic materials and the salts of carboxylic acids having an ionization constant that does not exceed that of phthalic acid, the amount of the additives being so proportioned as to render the said materials stable to light.

2,609,356

MANUFACTURE OF BRIGHT, STABLE, AND LIGHTPROOF SULFONAMIDE RESINS

Erik Birger Bengtsson, Karlskoga, Sweden, assignor to Aktiebolaget Bofors, Bofors, Sweden, a joint-stock company of Sweden

No Drawing. Application December 14, 1949, Serial No. 133,014. In Sweden February 17, 1949

9 Claims. (Cl. 260—70)

1. A method of preparing a synthetic resin which comprises continuously heating for a period of approximately three hours under reflux conditions during stirring a mixture of a substance selected from the group consisting of p-toluene sulphonamide, mixed isomeric toluene sulphonamides and benzene sulphonamide with a water solution of formaldehyde, the latter in substantial excess of equi-molecular proportions at the beginning of the heating and maintained at a concentration in the water phase not appreciably below 15% by weight of the water present throughout such heating, while maintaining the pH value of the mass within the range of 3 to 6, separating water and uncombined formaldehyde from the resinous condensate, heating the latter to approximately 130° C. and maintaining it substantially at that temperature until the drop point has attained a pre-determined value substantially higher than that at the beginning of the heating, supplying to the condensate an additional quantity of formaldehyde solution, heating the second mixture under reflux conditions during stirring for a further period of approximately three hours and maintaining substantially said pH value in the mass, separating water and uncombined formaldehyde from the condensate, reheating the latter to a temperature of approximately 130° C. and maintaining it at that temperature until the drop point of the condensate has reached another substantially higher predetermined value.

2,609,357

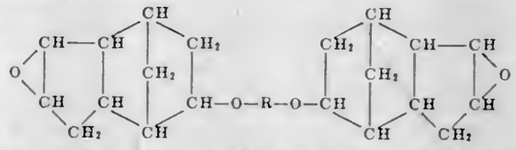
PREPARATION OF THERMOSET RESINS

Joseph E. Koroly, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application November 13, 1950, Serial No. 195,459

19 Claims. (Cl. 260—75)

1. A process for preparing cross-linked, resinous products which comprises reacting at a temperature of 50° C. to 250° C. (1) a diepoxide of a glycol bis-exo-dihydrodicyclopentadienyl ether which has the formula



in which R is a member of the class consisting of (*a*) alkylene groups containing 1 to 12 carbon atoms and (*b*) groups of the general formula $-(R'-O)_xR'-$ in which R' is an alkylene group of 2 to 4 carbon atoms and *x* is an integer having a value of 1 to 8 inclusive, with (2) a polycarboxylic acid containing 3 to 6 carboxyl groups from the class consisting of citric, tricarballylic, hemimellitic, trimellitic, and pyromellitic acids and the half-ester-acids of a polyhydric alcohol from the class consisting of glycerol, pentaerythritol, dipentaerythritol, mannitol, and sorbital and at least one acid from the class consisting of phthalic, maleic, succinic, glutaric, adipic, suberic, azaleic, and sebacic acids, the amount of said polycarboxylic acid being that which provides 0.7 to 2.0 carboxyl groups for each epoxy group present in said diepoxide.

2,609,358

ALKYD RESINS MADE FROM A POLYMERIZED ALCOHOL AND METHOD OF PREPARATION

Harry Fred Pfann, Mount Lebanon, Pa., and Edward L. Kropa, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 1, 1947, Serial No. 738,736

4 Claims. (Cl. 260—76)

1. A method of preparing a resin comprising the steps of (1) partially esterifying (*a*) a polymer of an alcohol having ethylenic unsaturation between two carbon atoms in an aliphatic grouping, one of which carbon atoms is directly linked to a saturated carbinol carbon atom, said polymer containing an average number of $-CH_2OH$ groups per molecule of from three to ten, with (*b*) a member selected from the group consisting of saturated, ethylenically unsaturated, and aromatic monocarboxylic acids containing more than one carbon atom, and anhydrides thereof, and (2) completing the esterification reaction at a temperature within the range of 150° C. to 250° C. by reacting, until a composition having an acid

number of from 5 to about 160 has been obtained, the product of partial esterification of (*a*) and (*b*) with (*c*) a member selected from the group consisting of saturated, ethylenically unsaturated, and aromatic polycarboxylic acids containing more than two carbon atoms, and anhydrides thereof, said ingredients of (*b*) and (*c*) being employed in an amount corresponding to from about 10 to about 70 mol per cent of the latter to from about 90 to about 30 mol per cent of the former, and the ingredient of (*a*) being employed in an amount corresponding to from about 3 to 30% in excess of that required for complete esterification of the ingredients of (*b*) and (*c*) and constituting at least 30% of the total polyhydric alcohol reactant.

2,609,359

COPOLYMERS OF A POLYENE, AN ALKENE, AND AN OLEFINICALLY UNSATURATED AROMATIC HYDROCARBON

William J. Sparks, Westfield, and David W. Young, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 21, 1946, Serial No. 656,148

12 Claims. (Cl. 260—79.5)

9. Product comprising essentially a high molecular weight tripolymer of at least 80% by weight of an alkene having 3 to 8 carbon atoms, about .01 to 5% of a polymerizable monoolefinic hydrocarbon selected from the group consisting of unalkylated aromatic hydrocarbons and derivatives thereof containing at least one alkyl group of 1 to 10 carbon atoms, and about 0.1 to 15% of an unsaturated aliphatic selected from the group consisting of a polyene of 4 to 15 carbon atoms and vinyl acetylene, said tripolymer having an iodine number of about 0.1 to 50 and an average molecular weight of at least about 18,000, by the Staudinger method.

2,609,360

PROCESS OF REACTING POLYVINYLALCOHOL WITH UREA PHOSPHATE

George C. Daul and John D. Reid, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application April 25, 1950, Serial No. 158,053

3 Claims. (Cl. 260—80)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a process for preparing polyvinyl phosphate, the steps which comprise heating an aqueous mixture of polyvinyl alcohol and urea phosphate to a temperature within the range of 130° C. to 160° C. until evolution of water vapor ceases, dissolving the reaction mixture in water, adding acetone, and acidifying the thus precipitated ammonium salt of polyvinyl phosphate.

2,609,361

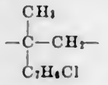
RESINOUS PRODUCTS CONTAINING CHLORO-ISOPROPENYL-TOLUENE

Gerson S. Schaffel, Cuyahoga Falls, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application April 22, 1948, Serial No. 22,705

12 Claims. (Cl. 260—80.5)

1. An emulsion copolymer of a mixture of monomeric materials comprising styrene and a nuclear monochloro-isopropenyltoluene having both of the carbon atoms next adjacent that carrying the isopropenyl group free of substituents, said copolymer containing at least 10 mol percent and up to 60 mol percent of chain units from chloro-isopropenyltoluene which units have the general formula



2,609,362

EMULSION POLYMERIZATION IN SYSTEMS CONTAINING AN ORGANIC HYDROPEROXIDE

Charles F. Fryling, Phillips, and Carl A. Uraneck, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application October 4, 1948, Serial No. 52,783

16 Claims. (Cl. 260—84.1)

1. In the production of synthetic rubber by copolymerization in aqueous emulsion of a monomeric material cmprising 1,3-butadiene and styrene in a weight ratio of at least 65:35, the improvement which comprises effecting said polymerization at a temperature between 0 and —40° C. in the presence of an aqueous medium and in the presence of ferrous sulfate and sodium pyrophosphate and phenyl (dimethyl) hydroperoxymethane, and in the absence of an organic reductant, with a mol ratio of said compounds of 1:1:1–1.1 and with the amount of each between 0.1 and 2.5 millimols per 100 parts by weight of said monomeric material, and with an alkaline emulsifying agent and the pH of said aqueous medium between 9 and 11.8.

2,609,363

COPOLYMERIZATION OF DIVINYL BENZENE AND ISOBUTYLENE

Lester Marshall Welch, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 29, 1948, Serial No. 57,407

8 Claims. (Cl. 260—88.1)

1. A copolymer of a major proportion of isobutylene with a minor proportion of a divinyl aromatic compound, there being no more than two carbon atoms present in each vinyl substituent on the aromatic nucleus and said copolymer having a molecular weight within the range between 1,000 and 100,000, the isobutylene being present in the reactant feed used for preparing the copolymer in the amount of at least 97%, and the divinyl aromatic compound being present in the reactant feed in an amount within the range between 0.1% and 0.8% and there being about 10 to 20% of 1-butene present in the reactant feed mixture, the copolymer having a minimum of cold flow and being characterized by the property of surface pressure sensitivity.

2,609,364

PRODUCTION OF FORM-STABLE, RUBBER-LIKE POLYVINYL N-BUTYL ETHERS

Abraham O. Zoss, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application April 11, 1945, Serial No. 587,838

6 Claims. (Cl. 260—88.1)

1. The process of producing form-stable, rubberlike polymers of vinyl n-butyl ether which

comprises uniformly admixing vinyl n-butyl ether and an acid-reacting condensing agent selected from the class consisting of boron trifluoride and its addition product with an ether at a temperature below —100° C., subsequently elevating the temperature of the mixture to a point ranging from —45° C. to —80° C. and maintaining such temperature uniformly throughout the reaction.

2,609,365

CHLORINATED POLYCHLOROPRENE LATEX

George W. Scott, Claymont, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 22, 1949, Serial No. 123,107

4 Claims. (Cl. 260—92.3)

1. A process of chlorinating polychloroprene in aqueous emulsions which comprises adding chlorine at temperatures of from 5° to 90° C. to a polychloroprene latex resulting from the polymerization of chloroprene in an aqueous emulsion containing from 1% to 6%, based on the weight of the chloroprene monomer, of a straight chain alkyl trimethyl ammonium chloride in which the alkyl group contains from 12 to 18 carbon atoms until the desired degree of chlorination is effected.

2,609,366

USE OF METHANOL IN EMULSION POLYMERIZATION

Charles F. Fryling and James E. Troyan, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application October 4, 1948, Serial No. 52,785

2 Claims. (Cl. 260—94.3)

1. An improved process for the production of synthetic rubber, which comprises polymerizing a monomeric material comprising 1,3-butadiene at a polymerization temperature between 0 and —40° C. while dispersed in an aqueous medium containing methanol in an amount between 10 and 50 per cent by weight of said aqueous medium and such that said medium has a freezing point lower than said polymerization temperature, with the relative amount of said aqueous medium such that said emulsion is of the oil-in-water type and the resulting synthetic rubber latex remains fluid at said polymerization temperature, and separately adding to said dispersion phenyl (dimethyl) hydroperoxymethane and an activator solution prepared by dissolving in water ferrous sulfate and a pyrophosphate of an alkali metal.

2,609,367

GUM REACTION PRODUCT AND PROCESSES

Kenneth M. Gaver, Esther P. Lasure, and Levi M. Thomas, Columbus, Ohio, assignors to Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio

Application August 30, 1948, Serial No. 46,866

13 Claims. (Cl. 260—209)

2. A process of treating a heteropolysaccharide gum selected from the group consisting of guar gum, locust bean gum, gum arabic, and karaya gum which comprises replacing the hydrogen atom of the hydroxyl group which is adjacent to the carbonyl group by an alkali metal atom by treating said heteropolysaccharide gum with a non-aqueous alcoholic solution of a material selected from the group consisting of the alkali metal alcoholates and the alkali metal hydroxides at a temperature of from 80° C. to about 115° C.

2,609,368

CARBOHYDRATE PROCESSES

Kenneth M. Gaver, Columbus, Ohio, assignor to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio

Application October 21, 1950, Serial No. 191,449

14 Claims. (Cl. 260—209)

5. A process of producing substituted glucopyranose polymers which comprises the reaction of glucopyranose polymer with a nonaqueous solution of an alkali metal alcoholate at a temperature of from about 80° C. to about 115° C.

2,609,369

METHOD OF PURIFYING STREPTOMYCIN

Walter A. Winsten, Forest Hills, N. Y., assignor to Schenley Industries, Inc., a corporation of Delaware

No Drawing. Application October 2, 1948, Serial No. 52,590

9 Claims. (Cl. 260—210)

1. Process for reducing the histaminic activity of histamine and histamine-like impurities in an aqueous streptomycin-containing solution that comprises treating said solution with an excess of a solution of bromine under non-alkaline conditions at a temperature approximating ordinary room temperature and atmospheric pressure, for a period of about 15 minutes, adjusting the hydrogen ion concentration of the mixture to a pH approximating 7, and removing the excess bromine present.

2,609,370

PROCESSES FOR THE PRODUCTION OF NEW CARBOHYDRATE COMPOUNDS

Kenneth M. Gaver and Esther P. Lasure, Columbus, Ohio, and Derk V. Tieszen, Delmar, N. Y., assignors to Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio

Application August 31, 1946, Serial No. 694,328

24 Claims. (Cl. 260—233.3)

1. A process of producing a glucoside which comprises the steps of reacting starch with an alkali metal hydroxide selected from the class consisting of lithium hydroxide, sodium hydroxide, and potassium hydroxide dissolved in an alcoholic solvent, at a temperature of from 78° C. to approximately 115° C. with the alkali hydroxide present in at least approximately stoichiometric quantities in relation to the starch to produce a 2-monoalkali starchate; reacting the 2-monoalkali starchate so produced with an alkyl halide dispersed in a nonaqueous solution at a temperature of from 80° C. to 115° C. to produce a 2-monoorganic starchate; reacting the 2-monoorganic starchate so produced with alkali hydroxide selected from the class consisting of lithium hydroxide, sodium hydroxide, and potassum hydroxide dissolved in at least approximately stoichiometric quantities in an alcoholic solvent at a temperature in excess of 115° C. with provision for removal of water formed by the reaction to produce 2-monoorganic, 3-monoalkali starchate; reacting the 2-monoorganic, 3-monoalkali starchate with an alkyl halide at a temperature of at least 115° C. to produce a 2,3-diorganic starchate; reacting the 2,3-diorganic starchate so formed with an alkali metal selected from the class consisting of lithium, sodium, and potassium dissolved in ammonia with the alkali present in approximately stoichiometric quantities with the starchate to produce a 2,3-diorganic, 6-monoalkali starchate; reacting the diorganic monoalkali starchate so formed with an alkyl halide to produce a 2,3,6-triorganic starchate; mixing the tri-

organic starchate so formed with an alcoholic acid solution to produce by glucosidic hydrolysis of the starchate a 2,3,6-triorganic α-glucoside; and etherifying the glucoside so formed to produce a 2,3,4,6-tetraorganic α-glucoside.

2,609,371

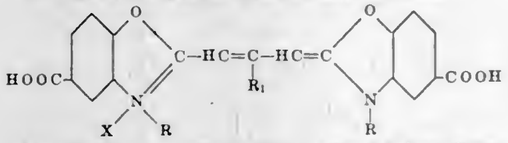
CARBOCYANINE DYES

John Charles Firestine, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 20, 1949, Serial No. 134,146

5 Claims. (Cl. 260—240.65)

1. The carbocyanine dyes of the formula:



wherein R is a hydrocarbon radical taken from the group consisting of alkyl and benzyl, R_1 is a hydrocarbon radical and X is a negative radical of an acid.

2,609,372

HALOGENATION OF 2-AMINOPYRIMIDINES

Carl Ziegler, Clementon, N. J., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland

No Drawing. Application May 5, 1950, Serial No. 160,385

5 Claims. (Cl. 260—256.4)

1. The process for the preparation of 2-amino-5-halogenopyrimidines in which the halogeno-substituent is chosen from the class consisting of chlorine and bromine comprising halogenating a 2-aminopyrimidine in the presence of an agent selected from the group consisting of the carbonates, oxides and phosphates of metals chosen from the group consisting of calcium, barium and magnesium.

2,609,373

MERCAPTO THIAZOLE-SULFUR HALIDE REACTION PRODUCTS

David J. Beaver, Richmond Heights, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 26, 1949, Serial No. 83,783

8 Claims. (Cl. 260—302)

1. As a new composition of matter the addition product of one molecular proportion of a sulfur monohalide and two molecular proportions of a free 2-mercapto thiazole obtained by reacting said reagents in the absence of a solvent at a temperature below the melting point of the mercapto thiazole.

2,609,374

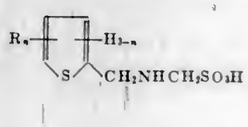
PREPARATION OF N-SUBSTITUTED AMINOMETHYLSULFONIC ACIDS

Howard D. Hartough, Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application July 1, 1948, Serial No. 36,449

9 Claims. (Cl. 260—329)

9. Thenylaminosulfonic acids having the formula,



wherein R is a substituent selected from the group consisting of lower alkyl radicals and halogen atoms, and n is an integer of from 0 to 1.

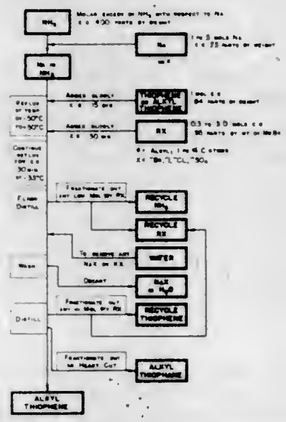
2,609,375

ALKYLATION OF THIOPHENE

Wilford J. Zimmerschied, Hammond, Ind., and Robert C. Arnold, Park Forest, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application June 29, 1951, Serial No. 234,421

7 Claims. (Cl. 260—329)



7. A process of preparing an alpha monoalkyl thiophene and a minor amount, as a separate product, of a corresponding alkyl thiophane, comprising the steps of dispersing an elemental alkali metal in liquid ammonia, adding to the ammonia from ⅓ to 1 mol of thiophene, per mol of alkali metal, refluxing the said liquid ammonia and the added components at a temperature between −50° and +50° C., during said refluxing step introducing an alkylating agent comprising essentially an alkyl halide having at most 16 carbon atoms per molecule, continuing said refluxing of the admixture for a period between about ten minutes and one hour that is sufficient to effect reaction between the said thiophene and the alkyl halide, flash distilling ammonia from the reaction mass, water washing the flash distilled product to remove alkali metal halide therefrom, fractionating the water washed product to separate as distillate fractions unreacted thiophene and an alpha alkyl thiophene, and distilling from the bottoms product of the said fractionation a corresponding alkyl thiophane.

2,609,376

REACTION PRODUCTS OF NUCLEARLY POLYHALOGENATED QUINONOID COMPOUNDS AND TRIALKYL PHOSPHITES AND PROCESS OF MAKING SAME

Elbert C. Ladd and Merlin P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 20, 1949, Serial No. 116,844

12 Claims. (Cl. 260—396)

1. A compound having the structure obtained by replacement of a single nuclear halogen atom in a nuclearly polyhalogenated quinone-type compound selected from the group consisting of nuclearly polyhalogenated mononuclear and binuclear quinones and such nuclearly polyhalogenated quinones in which one of the quinonoid oxygen atoms is replaced with two halogen atoms, said quinone-type compound containing halogen selected from the group consisting of chlorine and bromine, with a $-P(O)(OR)_2$ group where R is an alkyl group of from 1 to 6 carbon atoms.

2,609,377

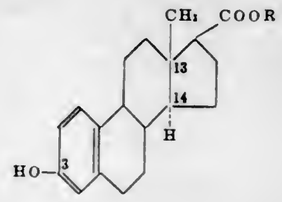
RING A AROMATIZED STEROIDAL COMPOUNDS AND PROCESS FOR PREPARING THEM

Maximilian R. Ehrenstein, Philadelphia, Pa., assignor to The Trustees of The University of Pennsylvania, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application May 26, 1950, Serial No. 164,634

2 Claims. (Cl. 260—397.1)

1. A process for preparing compounds having the general formula



wherein R is a lower alkyl radical, by aromatizing an ester of 3(β),5,19-trihydroxy etiocholanic acid with ordinary Raney nickel in the presence of a ketonic hydrogen acceptor.

2,609,378

PROCESS FOR PRODUCING TESTOSTERONE

George Rosenkranz, Stephen Kaufmann, and Jesús Romo, Mexico City, Mexico, assignors to Syntex, S. A., Mexico City, Mexico, a corporation of Mexico

No Drawing. Application December 23, 1948, Serial No. 67,094. In Mexico October 21, 1948

9 Claims. (Cl. 260—397.4)

1. A method for the preparation of 3 enol thioethers of testosterone comprising reacting 3 enol thioethers of Δ^4-androstendione with lithium aluminum hydride under anhydrous conditions to form the lithium aluminum derivative of the 3 enol thioethers of Δ^4-androstendione and adding water thereto to hydrolyze the lithium aluminum derivative.

2,609,379

PROCESS OF PREPARING 21-IODO-PREGNENE-(5)-OL-(3)-ONE-(20)

Heinrich Ruschig, Frankfort-on-the-Main, Germany, assignor to Farbwerke Hoechst vormals Meister Lucius & Bruning, Frankfort-on-the-Main-Hochst, Germany

No Drawing. Application February 8, 1951, Serial No. 210,097. In Germany March 2, 1950

3 Claims. (Cl. 260—397.4)

1. The process of preparing 21-iodo-pregnene-(5)-ol-(3)-one-(20) by acid cleavage of 21-iodo-pregnene-(5)-ol-(3)-one-(20)-oxalic ester-(21) in an alkaline medium, which consists in reacting 21-iodo-pregnene-(5)-ol-(3)-one-(20)-oxalic ester-(21) with an alkali metal alcoholate in a water-miscible alcohol.

2,609,380

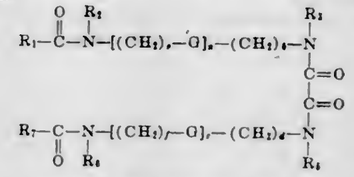
AMIDO-AMIDE DERIVATIVES OF OXALIC ACID AND PROCESSES OF PREPARING THE SAME

Herman B. Goldstein, Cranston, and Stanley T. Clary, Coventry, R. I., assignors to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware

No Drawing. Application October 5, 1949, Serial No. 119,755

11 Claims. (Cl. 260—404.5)

1. A chemical compound corresponding to the formula



where R_1 and R_7 are aliphatic chains containing at least 5 carbon atoms; R_2 and R_6 represent a radical of the group consisting of hydrogen, a lower alkyl radical, and a lower hydroxyalkyl radical; R_3 and R_5 represent a radical of the group consisting of hydrogen, a lower alkyl radical, a lower hydroxyalkyl radical, and an acyl group containing at least 6 carbon atoms; G represents a radical of the group consisting of an amino group, a lower alkyl substituted amino group, a lower alkylol substituted amino group, oxygen and sulfur; a and c represent integers from 0 to 6, and b, d, e and f represent integers from 1 to 6.

2,609,381

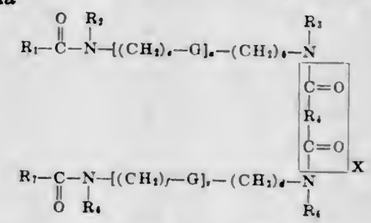
AMIDO-AMIDE DERIVATIVES OF DIBASIC ACIDS AND PROCESSES OF PREPARING THE SAME

Herman B. Goldstein, Cranston, and Stanley T. Clary, Coventry, R. I., assignors to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware

No Drawing. Application October 5, 1949, Serial No. 119,756

14 Claims. (Cl. 260—404.5)

1. A chemical compound corresponding to the formula



where R_1 and R_7 are aliphatic chains containing at least 5 carbon atoms; R_2 and R_6 represent a radical of the group consisting of hydrogen, a lower alkyl radical, and a lower hydroxyalkyl radical; R_3 and R_5 represent a radical of the group consisting of hydrogen, a lower alkyl radical, a lower hydroxyalkyl radical, and an acyl group containing at least 6 carbon atoms; G represents a radical of the group consisting of an amino group, a lower alkyl substituted amino group, a lower alkylol substituted amino group, oxygen and sulfur; a and c represent integers from 0 to 6; b, d, e and f represent integers from 1 to 6; X represents a dicarboxylic acid residue in which R_4 represents a member of the group consisting of aliphatic, cyclo aliphatic,

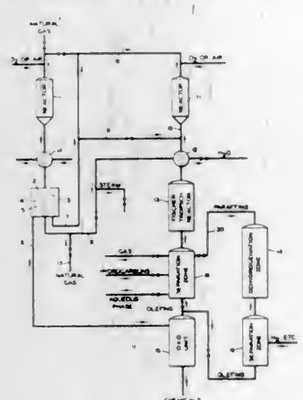
aromatic, and alkyl aromatic groups; and any of the said groups containing in their structure a member of the class consisting of halogen, oxygen, and sulfur atoms, and amino, ester, hydroxyl and ether groups.

2,609,382

PRODUCTION OF HYDROCARBON SYNTHESIS GAS

Bertrand J. Mayland, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 31, 1948, Serial No. 68,466
2 Claims. (Cl. 260—449.6)



1. In a process for the preparation of a feed for a Fischer-Tropsch synthesis and for an Oxo catalytic chemical synthesis operation wherein a first and a second portion of natural gas are subjected to partial oxidation to form a synthesis gas comprising hydrogen and carbon monoxide, and said products of partial oxidation of said second natural gas portion are subjected to Fischer-Tropsch synthesis, the improvement which comprises subjecting products of partial combustion of said first portion of natural gas directly and without intermediate treatment to a diffusion by passing said gas into contact with one side of a porous physical partition; passing an entrainer medium consisting essentially of a third portion of natural gas over the opposite side of said partition; maintaining substantially the same static pressure on both sides of the partition, thus obtaining the diffusion of hydrogen and carbon monoxide to said opposite side of said partition, the hydrogen diffusing at a rate substantially greater than the carbon monoxide; withdrawing from said one side of said partition a synthesis gas having a substantially lower hydrogen content than the starting synthesis gas and from the opposite side of said partition said entrainer medium containing a synthesis gas having a substantially higher hydrogen content than the starting synthesis gas; combining at least a portion of said entrainer medium containing said synthesis gas having a higher hydrogen content than the starting synthesis gas with said products of partial combustion of said second natural gas portion prior to said Fischer-Tropsch synthesis; and mixing olefinic hydrocarbons with said synthesis gas having a hydrogen content substantially lower than the synthesis gas treated, thereby forming a feed suitable for Oxo catalytic chemical synthesis.

2,609,383

NITROBENZYL THIOPHOSPHATE ESTERS

Willis G. Craig, Willoughby, Ohio, assignor to The Lubrizol Corporation, Wickliffe, Ohio, a corporation of Ohio

No Drawing. Application September 30, 1950, Serial No. 187,845
3 Claims. (Cl. 260—461)

1. As new chemical compounds, the O,O-dialkyl-X-nitrobenzyl thiono- and thionothiolphosphates wherein the alkyl groups are selected from the class consisting of methyl, ethyl, and propyl and X is either oxygen or sulphur.

2,609,384

α-ARYL-β-ALKOXYACRYLONITRILES AND METHOD OF PREPARING SAME

Peter Byrom Russell, Tuckahoe, N. Y., and Norman Whittaker, London, England, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York

No Drawing. Application December 30, 1950, Serial No. 203,792
6 Claims. (Cl. 260—465)

2. A substance of the formula

$$RO-C(R_1)=C(Ar)-CN$$

in which Ar is selected from the class consisting of phenyl and halophenyl radicals, R is a lower alkyl radical and R_1 is selected from the class consisting of hydrogen, and lower alkyl radicals.

2,609,385

3-METHYLENEGLUTARONITRILE

Ralph C. Schreyer, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 5, 1950, Serial No. 188,647
1 Claim. (Cl. 260—465.8)

3-methyleneglutaronitrile.

2,609,386

CARBAMATE OF 3-ORTHO-TOLOXY-1,2-PROPANEDIOL

William A. Lott, Maplewood, and Edward Pribyl, Metuchen, N. J., assignors to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Application July 26, 1951, Serial No. 238,784
1 Claim. (Cl. 260—482)

3-(ortho-toloxy)-2-hydroxy-propyl carbamate.

2,609,387

REMOVAL OF AMINE INHIBITORS FROM UNSATURATED MONOMERS

Costas H. Basdekis, Springfield, and Elwood F. Jackson, Ludlow, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 1, 1948, Serial No. 62,972
7 Claims. (Cl. 260—486)

6. A process for the removal of an amine inhibitor from methyl acrylate, under substantially anhydrous conditions, which comprises passing the methyl acrylate containing the amine inhibitor over a cation exchange resin which is insoluble in the methyl acrylate.

2,609,388

PREPARATION OF LOWER FATTY ACID ESTERS OF GERANIOL, NEROL, AND LINALOÖL

Robert L. Knapp and Dwight L. Schoene, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 5, 1950, Serial No. 137,038
6 Claims. (Cl. 260—489)

1. In a process of making a lower fatty acid ester of a nonadiene carbinol selected from the group consisting of geraniol, nerol and linaloöl wherein a halide selected from the group consisting of geranyl, neryl and linalyl chlorides and bromides is heated with an alkali metal salt of a lower fatty acid at an elevated temperature whereby the fatty acid acyloxy group is caused to replace the halogen, the step which comprises making said halide by treating myrcene with a substantially anhydrous hydrogen halide selected from the group consisting of hydrogen chloride and hydrogen bromide at a temperature of from 0° to 50° C. and thereby effecting preferential addition reaction of said hydrogen halide with said mycrene at only one double bond located in the conjugated diene portion of the myrcene, the amount of said hydrogen halide combining with said myrcene ranging from 0.75 to 1.25 mols per mol of myrcene.

2,609,389

PREPARATION OF CERTAIN SALTS OF ALKYLENE BIS-DITHIOCARBAMIC ACIDS

Albert L. Flenner, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 14, 1949, Serial No. 93,430
4 Claims. (Cl. 260—500)

1. In a process wherein a salt of an alkylene bis-dithiocarbamate acid is formed by the interaction of an alkylene diamine, carbon disulfide and a metal hydroxide the improvement which comprises forming an intermediate reaction product by adding carbon disulfide gradually with agitation to an alkylene diamine containing from 2 to 5 carbon atoms inclusive and, without separating said intermediate reaction product from the the reacting mass obtained, reacting the intermediate product with an hydroxide of a metal selected from the group consisting of sodium, lithium, potassium, magnesium, and calcium, said steps being carried out at a temperature not substantially in excess of 50° C.

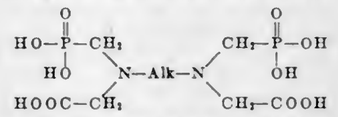
2,609,390

PHOSPHONIC ALKYLENE POLYAMINO ACIDS AND METHOD OF PRODUCING SAME

Frederick C. Bersworth, Verona, N. J.

No Drawing. Application June 1, 1950, Serial No. 165,598
3 Claims. (Cl. 260—500)

1. Compounds selected from the group consisting of acids having the structure:



wherein Alk represents an alkylene radical (C_nH_{2n}) containing from 2 to 6 carbon atoms and alkali metal salts thereof.

2,609,391

STABILIZATION OF PERACIDS WITH DIPICOLINIC ACID

Frank P. Greenspan, Buffalo, and Donald G. MacKellar, Kenmore, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y.

No Drawing. Application September 13, 1950, Serial No. 184,710
12 Claims. (Cl. 260—502)

1. The method of stabilizing a carboxylic peracid which comprises incorporating dipicolinic acid therein.

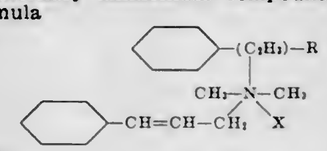
2,609,392

CINNAMYL QUATERNARY AMMONIUM COMPOUNDS

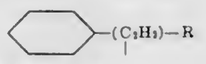
Frank S. Crossley, Collingdale, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland

No Drawing. Application April 27, 1950, Serial No. 158,590
6 Claims. (Cl. 260—567.6)

1. Quaternary ammonium compounds having the formula



in which



is a 1-phenyl-alkane, the

$$-(C_3H_3)-R$$

portion of which contains from 10 to 14 carbon atoms and is selected from the group consisting of normal alkyl chains and normal alkyl chains having attached to the terminal carbon atom an unsubstituted cyclohexyl radical, and X is selected from the group consisting of the chloride, iodide and bromide radicals.

2,609,393

DODECYL, DIMETHYL,-CINNAMYL-AMMONIUM HALIDES

Frank S. Crossley, Collingdale, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland

No Drawing. Application February 2, 1951, Serial No. 209,203
4 Claims. (Cl. 260—567.6)

1. Dodecyl dimethyl cinnamyl ammonium halides, the halide being selected from the group consisting of chloride, bromide and iodide.

2,609,394

PRODUCTION OF AMINES

Phineas Davies, Peter William Reynolds, Robert Reid Coats, and Arthur William Charles Taylor, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application December 8, 1949, Serial No. 131,918. In Great Britain January 7, 1949
3 Claims. (Cl. 260—585)

1. A process for the production of amines which comprises passing an aliphatic mono-alcohol containing from 2 to 9 carbon atoms together with

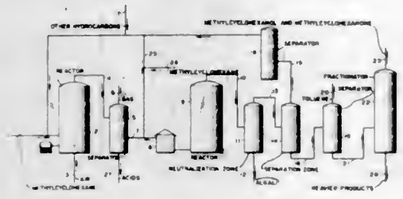
ammonia and hydrogen in the vapor phase at a temperature within the range 240–300° C. and at a pressure of from 10 to 25 atmospheres gauge over an active foraminate copper catalyst treated with an alkaline earth metal basic compound.

2,609,395

OXIDATION OF HYDROCARBONS

Charles Francis Dougherty, Jr., Bartlesville, Okla., and Charles C. Chapman, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application December 16, 1949, Serial No. 133,282
17 Claims. (Cl. 260—586)



3. A process for producing a cycloalkanol and a cycloalkanone which comprises reacting a cycloalkane hydroperoxide with a stoichiometric excess of a cycloalkane at a temperature in the range 160 to 260° C., a pressure in the range 50 to 1000 p. s. i., and a reaction time in the range 10 to 200 minutes, and recovering a cycloalkanol and a cycloalkanone as products of the process.

15. A process for producing methylcyclohexane hydroperoxide which comprises oxidizing a methylcyclohexane feed in an oxidation zone with an oxygen-containing medium added to said zone at a rate equivalent to about 0.05 to about 0.2 mol oxygen per mol of methylcyclohexane feed, maintaining said oxidation zone at a temperature of 150° to about 210° C. and under a pressure sufficient to maintain liquid phase conditions in said zone adjusting the rate of flow of hydrocarbon feed to said oxidation zone to be such that the residence time of said feed in said zone is about 50 to about 3 minutes whereby the desired hydroperoxide is produced.

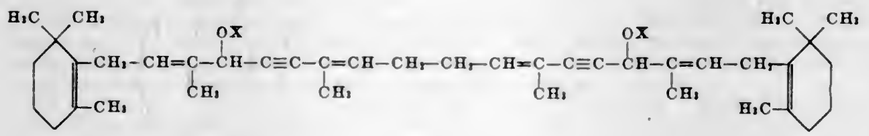
2,609,396

COMPOUNDS WITH THE CARBON SKELETON OF BETA-CAROTENE AND PROCESS FOR THE MANUFACTURE THEREOF

Hans Herloff Inhoffen and Horst Pommer, Braunschweig, Germany

No Drawing. Application May 17, 1951, Serial No. 226,944. In Germany May 24, 1950
4 Claims. (Cl. 260—617)

3. Compounds of the general formula



wherein X is selected from the group consisting of a lithium radical and a magnesium monobromide radical.

2,609,397

PRIMARY ALCOHOL COMPOSITION

William F. Gresham, Wilmington, and Michael A. Kubico, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 24, 1948, Serial No. 40,623
1 Claim. (Cl. 260—632)

Normally liquid, highly branched primary tridecanol, characterized in that it has a boiling point in the range of 103° to 112° C., at a pressure of 4 mm., and characterized further in that it is a hydrogenation product of the highly branched C_{13} aldehyde obtained by simultaneous reaction of carbon monoxide and hydrogen with tetrapropylene in the presence of a hydrogenation catalyst.

2,609,398

PROCESS FOR HYDROGENATION OF POLYSACCHARIDES

Jan Lolkema, Hoogezand, and Hendrik Adriaan van Westen, Amsterdam, Netherlands, assignors to Naamlooze Vennootschap W. A. Scholten's Chemische Fabrieken, Groningen, Netherlands, a corporation of the Netherlands

No Drawing. Application December 22, 1947, Serial No. 793,318. In the Netherlands February 25, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 25, 1963
11 Claims. (Cl. 260—635)

1. A process of manufacturing polyhydric alcohols substantially consisting of sorbitol by the hydrolytic hydrogenation of polysaccharides selected from the group consisting of starch, high polymeric hydrolysis products of starch, mixtures of starch and glucose and mixtures of high polymeric hydrolysis products of starch and glucose, which comprises adding a hydrogenating catalyst, substantially free from alkali metal compounds, to a mixture of said polysaccharides and water and heating said mixture in the presence of hydrogen at superatmospheric pressure to a temperature above 160° C. but not exceeding about 200° C.

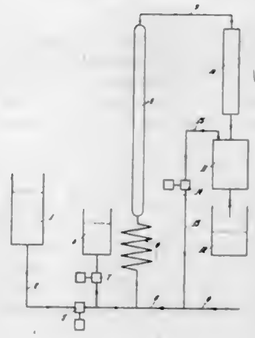
2,609,399

PROCESS FOR THE HYDROLYTIC HYDROGENATION OF CARBOHYDRATES IN AN ACID MEDIUM

Cornelis Martinus Hendrik Kool, Haren, and Hendrik Adriaan van Westen and Lenze Hartstra, Amsterdam, Netherlands, assignors to Naamlooze Vennootschap W. A. Scholten's Chemische Fabrieken, Groningen, Netherlands, a corporation of the Netherlands

Application December 30, 1947, Serial No. 794,574
In the Netherlands September 30, 1943
7 Claims. (Cl. 260—635)

1. A process of manufacturing polyhydric alcohols substantially consisting of sorbitol by the hydrolytic hydrogenation of polysaccharides, which comprises producing a neutral mixture of a polysaccharide of the group consisting of starch, modified starches, dextrin and maltose, water and a latent acid generating substance which at ordinary temperature presents a neutral reaction but at the temperature of the hydrolytic hydrogenation will hydrolyze in an aqueous medium to provide an acid reaction, and contacting said mixture with hydrogen and a hydrogenating catalyst at superatmospheric pressure and at a temperature above about 150° C., but not exceeding about 200° C.

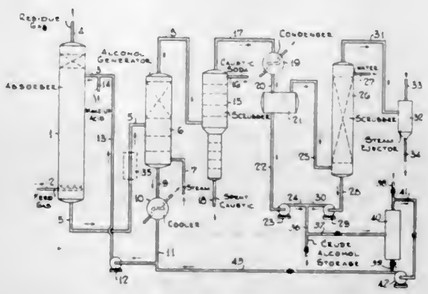


2,609,400

MODIFIED WEAK-ACID ISOPROPANOL PROCESS

Erwin H. Amick, Jr., Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application April 5, 1950, Serial No. 154,127
15 Claims. (Cl. 260—639)



1. A process for the production of isopropanol by indirect hydration of propylene which comprises absorbing a fluid comprising propylene in sulfuric acid of 60–70 weight percent concentration in an absorption zone, removing an acid extract having a saturation of 0.6 to 1.5 mols of propylene per mole of sulfuric acid from the absorption zone, passing said extract without dilution with water to a stripping zone, removing a hydration product distillate from the stripping zone comprising 3–20% of the propylene in the acid extract in said stripping zone, recovering isopropanol from the distillate, removing an acid extract of decreased saturation and increased acid strength from the stripping zone, diluting the acid extract with water to restore the acid strength thereof to 60–70 weight percent and returning the diluted extract to the absorption zone.

2,609,401

NITRATION OF SATURATED ALIPHATIC HYDROCARBONS

Henry B. Hass, Forest Hills, N. Y., and Lloyd G. Alexander, Novman, Okla., assignors to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana

No Drawing. Application May 26, 1951, Serial No. 228,537
11 Claims. (Cl. 260—644)

1. In a process for the production of improved yields of nitro alkanes and oxidation products of paraffin hydrocarbons by the vapor phase nitration of saturated aliphatic hydrocarbons containing from 1 to 4 carbon atoms, the improvement which comprises contacting at elevated temperatures, oxygen, with a saturated aliphatic hydrocarbon containing from 1 to 4 carbon atoms and a material selected from the group consisting of nitric acid and nitrogen dioxide said hydrocarbon and said nitrating agent being in a molar ratio ranging from 8 to 1 to 25 to 1 and maintaining said mixture at said elevated temperatures for a sufficient period of time to permit substantial nitration of the hydrocarbons but not substantial oxidation of nitric oxide to nitrogen dioxide.

2,609,402

OLEFIN-DDT REACTION PRODUCTS

Elbert C. Ladd, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application March 23, 1949, Serial No. 83,101
9 Claims. (Cl. 260—649)

5. The process which comprises heating a mixture of 1,1,1-trichloro-2,2-bis(p-chlorophenyl) ethane and a 1-alkene in the presence of a free radical reaction initiator, and recovering an adduct having the formula

$$(p\text{—}Cl\text{—}C_6H_4)_2\text{—}CH\text{—}CCl_2\text{—}\{CH_2CRR'\}_nCl$$

where n is an integer of from 1 to 3 and R and R' are selected from the group consisting of hydrogen and alkyl, from the reaction mixture.

9. A new chemical having the formula

$$(p\text{—}Cl\text{—}C_6H_4)_2CH\text{—}CCl_2\text{—}\{CH_2\text{—}CRR'\}_nCl$$

where n is an integer of from 1 to 3 and R and R' are selected from the group consisting of hydrogen and alkyl.

2,609,403

MANUFACTURE OF STYRENE COMPOUNDS

Francis Edward Salt, Banstead, William Webster, Epsom, England, and Eugen Galitzenstein, deceased, late of London, England, by Gertrud Galitzenstein, legal representative, Wallington, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application June 28, 1948, Serial No. 35,738. In Great Britain June 28, 1947
15 Claims. (Cl. 260—650)

1. A process for the production of a styrene compound, comprising heating in a reaction zone in the liquid phase a compound selected from the

group consisting of chlorethyl benzenes and their nuclear chlor-substituted and alkyl-substituted derivatives in the presence of collidine in a concentration exceeding 0.2% by weight at a temperature between the lowest at which dehydrochlorination takes place and the boiling point of the chlorethyl compound.

2,609,404
PLASTICIZING RUBBER
John J. Verbanc, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 3, 1949, Serial No. 131,062
23 Claims. (Cl. 260—761)

1. The process for improving the plasticity of rubber which comprises mixing into the rubber from about 0.003% to about 0.5% of a rubber plasticizing agent of the group consisting of aromatic mercaptans and aromatic mercaptides of divalent heavy metals and from about 0.0004% to about 0.05% of a substantially neutral nickel aliphatic xanthate which is a strong promoter of the plasticizing action of the plasticizing agent.

2,609,405
PLASTICIZING RUBBER
Maynard F. Torrence, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 3, 1949, Serial No. 131,063
23 Claims. (Cl. 260—761)

1. The process for improving the plasticity of rubber which comprises mixing into the rubber from about 0.003% to about 0.5% of a rubber plasticizing agent of the group consisting of aromatic mercaptans and aromatic mercaptides of divalent heavy metals and from about 0.0004% to about 0.5% of a substantially neutral nickel dithiocarbamate.

ELECTRICAL

2,609,406
TEMPERATURE-RESPONSIVE DEVICE
Imre J. Barsy, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application May 24, 1947, Serial No. 750,275
9 Claims. (Cl. 136—4)



1. A temperature-responsive device comprising a probing tube, the forward end of which is adapted to be inserted into a mass, said forward end constituting a heat-sensitive zone, a fine wire resistance device insertable within the forward end of said tube as a unit comprising an insulating tube having a recess extending longitudinally on the outer surface thereof, a heat-responsive fine wire resistance thermometer element received within said recess, a connector secured to one end of the insulating tube and connected to one end of said fine wire resistance element, a second connector secured to the other end of the insulating tube and connected to the other end of said fine wire resistance element, a lead connected to said first-mentioned connector, means for insulating said first-mentioned connector from said probing tube, and means closing the forward end of said probing tube.

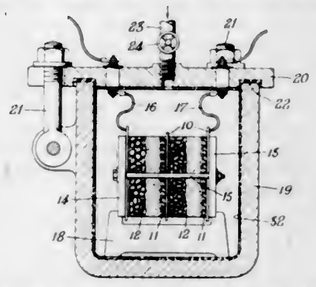
2,609,407
SECONDARY GALVANIC CELLS AND ELECTRODES OF SUCH CELLS
Pelham Salisbury-Rowswell, London, England
Application May 26, 1948, Serial No. 29,323
In Great Britain November 22, 1947
6 Claims. (Cl. 136—55)

1. An electrode for secondary or storage batteries comprising a conducting member, active material in contact therewith and a preformed helically wound self-sustaining sleeve containing said active material, said helical sleeve being composed of a resilient ribbon-like material which is inert to the electrolyte and to electrolytic action, the helices being spaced apart to permit passage of electrolyte therebetween so as to contact the active material, said sleeve supporting said active material in a resilient relationship.

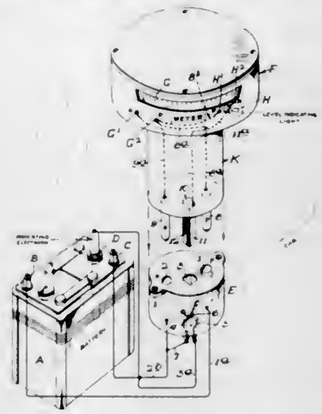


2,609,408
DEFERRED ACTION TYPE GAS DEPOLARIZED DRY CELL HAVING PROLONGED SHELF LIFE
George W. Heise, Rocky River, and Russell P. Fox, Cleveland, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application February 19, 1949, Serial No. 77,392
8 Claims. (Cl. 136—86)

1. A deferred action dry cell having an enclosed casing outside of and spaced from said cell on more than one side hermetically sealing the cell, at least one element of the cell containing moisture and being exposed to the casing atmosphere between the cell and casing, and a bibulous material outside of the cell and spaced from the moisture containing cell element, having a larger exposed surface than the exposed surface of the cell within the casing whereby moisture from the bibulous material may spread any deposit of moisture over its surface and tend to saturate the atmosphere within the casing and outside the cell.



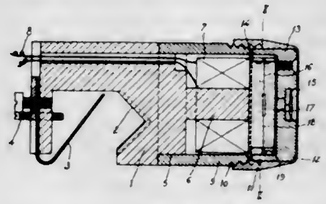
2,609,409
BATTERY CELL INSPECTING AND TESTING SYSTEM
Walter H. Radeke, Blue Island, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware
Application May 1, 1951, Serial No. 223,975
4 Claims. (Cl. 136—182)



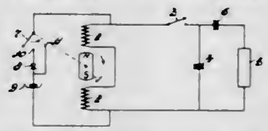
1. A battery cell inspecting and testing system, comprising, in combination, a testing device, a battery having positive and negative terminals, a liquid level indicating electrode, positive and negative contacts in circuit with said positive and negative terminals and for connection with said testing device, and a normally closed by-pass circuit including spring contacts respectively in circuit with said electrode and the negative terminal of the battery, said contacts being separated by related parts of the testing device to open the by-pass circuit during testing.

2,609,410
MOVABLE MAGNET OSCILLOGRAPH
Jean Babaud, Paris, France, assignor to Etablissements Charles Beaudouin, Paris, France
Application October 11, 1949, Serial No. 120,725
In France October 15, 1948
3 Claims. (Cl. 171—95)

1. A movable magnet oscillograph comprising in combination a body of magnetic material forming the armature of an electromagnet with a central core extension, an electrical winding on said core, a sleeve secured to said body around said core, a sealing gasket of non magnetic material against the end of said sleeve and core, a hollow cover against said gasket having a centrally apertured end fitted with a lens and defining a closed chamber in front of said gasket, means tightly clamping said cover with the interposed gasket against said body, an annular fitting of non magnetic material inserted in said chamber and formed with an arcuate peripheral arm, a torsion strip attached under tension between said arm and the diametrically opposed point of said fitting, a mirror carrying vane-shaped magnet mounted on said torsion strip, and a damping liquid filling said chamber.

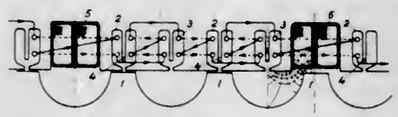


2,609,411
METHOD OF MAGNETIZING PARTLY DEMAGNETIZED PERMANENT FIELD MAGNETS IN ALTERNATING CURRENT GENERATORS
Maximilien Félix Reijnst and Robert Henri de Beer, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 22, 1949, Serial No. 128,885
In the Netherlands December 13, 1948
9 Claims. (Cl. 171—209)



1. A method of magnetising partly demagnetised permanent field magnets in an alternating-current generator, comprising the steps of operating the generator to produce a residual voltage across the terminals thereof, rectifying a portion of the said residual voltage to produce a unidirectional voltage therefrom, charging a capacitor with the rectified residual voltage portion until said capacitor is fully charged, and thereafter discharging the capacitor across a portion of the generator winding to remagnetise the permanent magnets.

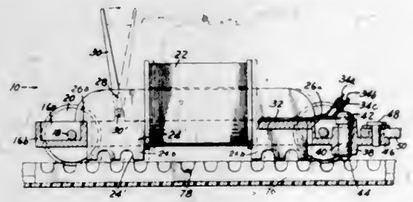
2,609,412
ELECTRIC HIGH-FREQUENCY GENERATOR
Ludwig Dreyfus, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application October 12, 1951, Serial No. 250,979
In Sweden July 14, 1951
2 Claims. (Cl. 171—252)



2. A high frequency alternating current generator comprising a stator having one winding slot per pole of its high frequency winding, each such slot containing at least one partition pro-

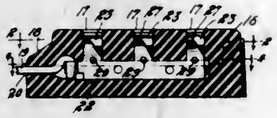
jecting from its bottom and integral therewith and terminating at a substantial distance from the mouth of said slot, said stator also having slots containing a direct current magnetizing winding and at each side of each of said last-mentioned slots an alternating current winding slot of half the normal width separated from the direct current slot by a partition of the same type as those contained in the normal slots.

2,609,413
TOY RAILWAY
Otto R. Nemeth, Los Angeles, Calif.
Application March 20, 1950, Serial No. 150,708
5 Claims. (Cl. 172—290)



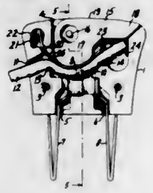
1. In a toy railway, a track formed of an insulating material, and a series of magnetic elements spaced along said track between the rail forming portions thereof, in combination with a car, an electromagnet mounted on said car, a source of electric power movable with the car and connected in circuit with the electromagnet, relatively movable switch elements on the car connected in circuit with the electromagnet and said power source, a vertically movable member mounted on said car and adapted to ride over said magnetic elements when the car is in motion to affect alternate closing and opening of said switch elements, said member gravitating to its lower position after passing over each of said magnetic elements, a core associated with said electromagnet and positioned relatively to said magnetic elements whereby the car is drawn along the track in the required direction of travel, and means for shifting said core relatively to the electromagnet and said magnetic elements to a neutral position to bring the car to a halt.

2,609,414
EXTENSION CORD TAP
Sidney M. Weisberg, Newark, N. J., assignor to Allied Electric Products, Inc., Irvington, N. J., a corporation of New Jersey
Application April 14, 1950, Serial No. 155,799
1 Claim. (Cl. 173—334)



A cord tap comprising an elongated, one-piece, elastic base having a cord inlet in one end, spaced, parallel, longitudinally extending channels, fork passages extending from said cord inlet into said spaced, parallel channels, a longitudinally extending passage connecting said parallel channels and contact blade receiving branches extending from said channels up through the top of the base at opposite sides of said longitudinally extending passage, elongated contact bars seated in said parallel channels and having upstanding contact prongs extending up into said branches and wire terminals on the ends of the contact bars nearest the cord inlet for securing and holding the wires of an electric cord in said forked portion of the cord inlet, the inner edges of said upstanding prongs being inclined to facilitate the forcing of the contact bars through the cord inlet into the channels and the interlocking engagement of the prongs in the branches, the inner walls of said branches being inwardly indented and the upper ends of said contact prongs being inclined inwardly to enter and interlock in said inwardly indented walls.

2,609,415
ELECTRIC CONNECTOR
George B. Benander, Oaklawn, R. I., and Gustaf R. Lawson, Abington, Mass., assignors, by mesne assignments, to General Electric Company, a corporation of New York
Application August 24, 1949, Serial No. 112,073
9 Claims. (Cl. 173—361)

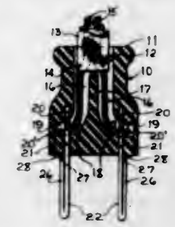


8. An electric connector comprising two complementary members forming a body part, each of said members having grooves together defining a recess in said body part with an electric cord receiving aperture in one wall of said recess, contact means, piercing means electrically connected to said contact means and extending into said recess, each of said members further having oppositely inclined wall surfaces forming together an end of said recess facing said cord receiving aperture, said oppositely inclined surfaces being adapted to divert in opposite directions the conductor ends of the twin conductor cord when inserted into said aperture and through said recess to engage the end thereof, a lever pivotally mounted between said body members in said recess and having a cam surface for pressing said cord into engagement with said piercing means, said lever having an open and a closed position, said lever in its open position exposing said recess to give visual indication of said cord separating recess end whereby the separation of the conductor ends may be ascertained before said lever is pivoted to its closed position.

2,609,416
ELECTRIC CONNECTOR
Harry D. Cousins, Chicago, Ill.
Application April 28, 1951, Serial No. 223,619
2 Claims. (Cl. 173—361)

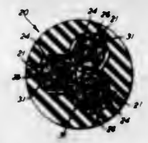
1. An electric plug comprising a body having formed in one end portion a counterbore into which an end portion of an electric cord having two conductor wires is projected, said body having spaced passages formed therein with corresponding end portions of the passages communicating with the counterbore and with opposite end portions of the passages curved in an outward direction with respect to each other, said body having spaced slots formed therein in the direction of its long axis extending beyond and bisecting the curved end portions of said passages, a pair of prongs having shank portions projected into said slots, each of said shank portions having an elongated slot formed therein

with one end portion of the slot formed to register with the curved portion of the passage when said shank is projected the depth of the first-mentioned slots and having at the end opposite thereof a penetrating finger adapted to penetrate a wire length positioned in an adjacent curved passage, said shank portions each having an



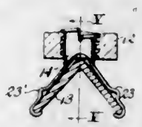
integral yieldable latching finger, and keeper beads formed on said plug adjacent said shank receiving slots and adapted to be engaged by said latching fingers to secure said fingers in close parallel relation with respect to said shanks and to latch said prongs in wire penetrating position with respect to said wire lengths.

2,609,417
RETRACTILE CORD AND METHOD OF MAKING IT
Thomas K. Cox, Randallstown, and Francis P. Lyons, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 6, 1949, Serial No. 91,738
10 Claims. (Cl. 174—69)



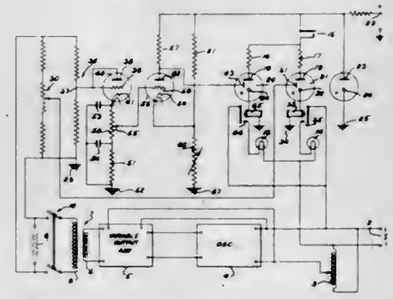
1. A retractile cord, which comprises a predetermined length of cordage including a plurality of flexible conductors and a vulcanized jacket with the conductors and jacket twisted axially in the same direction and to substantially the same degree, coiled into a compact helix, and set in such twisted, helical form.

2,609,418
ADJUSTABLY MOUNTED INSULATOR ASSEMBLY
Jack N. Binns and Thomas E. Dugle, Cincinnati, and Alvin F. Alt, Hamilton County, Ohio
Application October 18, 1949, Serial No. 122,022
1 Claim. (Cl. 174—163)



An insulator assembly for mounting on an upright post having a pair of opposed flanges, said assembly comprising a one-piece clip formed of resilient material and having a central threaded portion, a pair of arms diverging outwardly from the central portion at an angle to each other and presenting inclined surfaces on opposite sides of the axis of the central portion, and a return bend at the free end of each arm, said return bends being directed inwardly toward the axis of the central threaded portion so that when the return bends are urged against the flanges, the arms of the clip are urged apart to snap over the edges of the flanges, and a one-piece insulator having a threaded bore for threading onto the threaded portion of said clip and being provided with a base, said base abutting the post thereby to force the diverging arms toward each other to secure the return bends and flanges of said clip and post, said insulator having a portion spaced from said clip to which a charged wire may be secured.

2,609,419
IMPEDANCE TESTING APPARATUS
Harold F. Blair, Naperville, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 20, 1948, Serial No. 28,230
7 Claims. (Cl. 175—183)

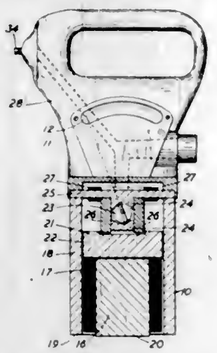


1. An apparatus for testing the impedance of articles, comprising means variable in response to load for applying a selected voltage of alternating current at a selected frequency to opposite ends of the article, a pair of cold cathode tubes, relays connected in the cathode circuits of said tubes, signal lamps operable under control of said relays, means for supplying voltage to the anodes of said cold cathode tubes, a voltage divider connected in parallel with the article under test and having a center tap connected to the control anode of one of said cold cathode tubes thereby to cause said one cold cathode tube to conduct when the voltage drop across said voltage divider exceeds a predetermined amount, a second voltage divider also connected in parallel with the article under test, and an inverter operable when the voltage drop across said second voltage divider falls below a predetermined amount to supply a control voltage to the control anode of the other cold cathode tube, the voltage drops across said dividers being at all times proportional to the impedance of the article under test.

2,609,420
DEVICE FOR MEASURING THE THICKNESS OF STEEL PLATES AND THE LIKE
James D. Watson and Samuel Skipton Carlisle, London, England, assignors to The British Iron & Steel Research Association, London, England, a British company
Application July 13, 1950, Serial No. 173,544
In Great Britain July 15, 1949
8 Claims. (Cl. 175—183)

1. A device of the kind specified comprising means for producing a magnetic saturation flux

density in a portion of a body whose thickness is to be measured, said means comprising an electromagnet having a ferromagnetic body with pole faces which can be brought adjacent a surface of the body whose thickness is to be measured said ferromagnetic body having a narrow non-magnetic gap in it, core means forming a shunt magnetic circuit in series with said non-magnetic gap and a part of said ferromagnetic body, said shunt



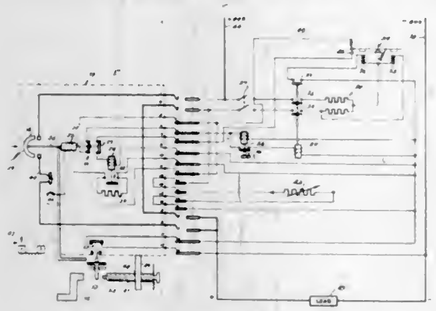
magnetic circuit having an air gap therein in which a magnetic field is produced by the magneto-motive force developed across said non-magnetic gap, which magnetic field is proportional to said saturation flux density, and a moving coil element adapted to be energized with a predetermined current, said moving coil element being mounted in the air gap in said shunt magnetic circuit.

2,609,421

RECLOSING CIRCUIT BREAKER

Amado Conangla, Sharon Hill, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 11, 1951, Serial No. 220,503
5 Claims. (Cl. 175—183)



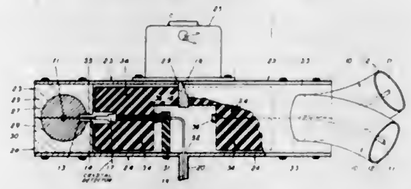
1. In a draw-out circuit breaker for an electrical system having a connected position, a test position, and having a main contact engaged and a main contact disengaged position, moving separable contacts movable with said circuit breaker and comprising main separable contacts for connecting said circuit breaker to the load and to the source of power when said circuit breaker is in its connected position and for disconnecting said circuit breaker from the load and source of power when said circuit breaker is in its test position, auxiliary separable contacts, a load measuring resistor, a variable calibrated resistor, first circuit connections for connecting said load measuring resistor and calibrated resistor in series to said source of power through said auxiliary separable contacts when said circuit breaker is in the test position, second circuit connections for connecting said load measuring resistor in series with the load of the system to said source of power through said main contacts when said circuit breaker is in connected position, a load measuring relay, circuit connections controlled by said load measuring resistor for operating said load measuring relay when predetermined current flows in said load measuring resistor, a circuit breaker closing magnet, circuit connections controlled by said operated load measuring relay for operating said circuit breaker closing magnet to close said circuit breaker, a racking mechanism for racking said circuit breaker between said connected and test positions and means operative just before said racking mechanism is operated for rendering said circuit connection control of said load measuring resistor ineffective during the racking of said circuit between its test and connected positions.

2,609,422

INDICATING DEVICE

George E. Hulstede, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War

Application July 9, 1945, Serial No. 604,069
2 Claims. (Cl. 175—183)



2. In apparatus for indicating the standing wave ratio in a concentric transmission line, a holder for said transmission line comprising corresponding first and second annular metallic rings, each of said rings having first and second portions cut away therefrom, which are respectively concentric with the axis of said ring, the cross-section of said first cutaway portion being semi-circularly shaped with its diameter lying on a radially disposed peripheral edge of said ring, the cross-section of said second cut-away portion forming a notch along said radially disposed peripheral edge extending from the inner circumference of said ring to said first cutaway portion, and means for removably mounting said first and second rings with the respective axes and said radially disposed peripheral edges of said rings coinciding, the first cutaway portions of both rings together forming an enclosure for said transmission line and the second cutaway portions of both rings together forming a notch adapted to receive a probe which is rotatable about the common axis of said rings.

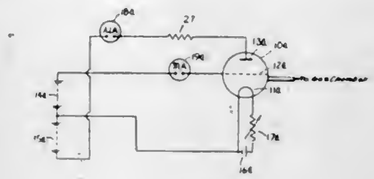
2,609,423

ELECTRICAL APPARATUS FOR VACUUM MEASUREMENT

Frederick H. Townsend, Cambridge, England, assignor to Cathodeon Limited, Cambridge, England, a British company

Application May 8, 1946, Serial No. 668,108
In Great Britain April 11, 1945
1 Claim. (Cl. 175—183)

Method of measuring variable gas pressures in evacuated vessels, which comprises producing a steady electron current between a cathode and an anode in the vessel and causing said electron current to produce ionisation of gas within the vessel, maintaining a third electrode at a normal initial negative potential outside the space between said cathode and anode, so as to collect the ion current produced by ionisation, maintaining said anode at such positive potential that the ion current collected for any given gas pressure over the desired range is dependent solely upon the actual potential of said third electrode, causing said ion current to reduce the actual potential in a predetermined ratio with respect



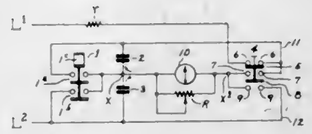
to said ion current of said third electrode, and adjusting the normal initial potential of said third electrode to a value such that, over at least part of the range of potential change of said third electrode due to gas ionisation, the magnitude of the ion current collected in proportion to the gas pressure is a substantially linear function of the actual potential of said third electrode, whereby over such part of said potential range the intensity of the ion current collected automatically decreases with increasing gas pressure and vice versa, thus varying the sensitivity of measurement inversely with changes in gas pressure.

2,609,424

CAPACITOR CONTROL

William H. Elliot, Shorewood, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application June 30, 1947, Serial No. 757,976
6 Claims. (Cl. 175—183)



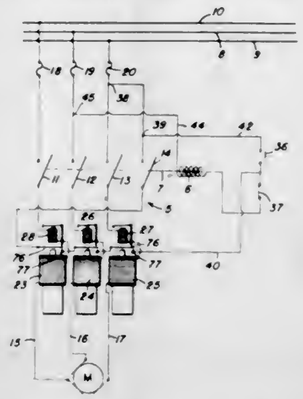
4. In combination, plural sets of contacts, like capacitors, an electroresponsive device, a direct current supply circuit, a control switch, circuit connections under the control of said switch connecting said capacitors to said supply circuit with said capacitors in series one with another, other circuit connections for said capacitors individualized thereto which connect each of said sets of contacts across one of said capacitors individualized thereto and connections which provide energizing connections from said capacitors to said electroresponsive device and through which said capacitors discharge to said device in opposed relation, the influence of said capacitors on said electroresponsive device varying with departures from simultaneity of operation of said sets of contacts and said device indicating the sequence of operation of said sets of contacts if not operating simultaneously.

2,609,425

PROTECTIVE SYSTEM FOR ELECTRICAL APPARATUS CONNECTED WITH POLYPHASE NETWORKS

Winifred J. Turnupseed, Porterville, and Harley E. Turnupseed, Tulare, Calif.

Application October 24, 1949, Serial No. 123,172
3 Claims. (Cl. 175—294)



2. A protective system for polyphase networks with phase lines controlled by an automatic electromagnetically operated circuit breaker, including an operating coil and a plurality of armatures, cooperating with fixed contacts controlling the phase lines, comprising a starter circuit, including a normally open start contact switch, a normally closed stop contact switch, both returning to their normal position after operation, and the operating coil of the circuit breaker, connected on one side with one phase line and on the other side with another phase line, an overload relay in each of said phase lines and an underload relay in each of said phase lines, a single contact pair in each phase line operated by the overload relay and underload relay of each phase line cooperating with each other, each of said relays having independently operable electromagnetically controlled means acting on said single contact pair, the overload relay opening and the underload relay closing said contact pair during energization, a circuit branch arranged in parallel to the section of the starter circuit containing the normally open start contact switch, said circuit branch including a further armature and fixed contact of the electromagnetic circuit breaker, and further including all the single contacts controlled by the cooperating pairs of overload and underload relays in series, said contacts being closed when the underload relays are energized, thus keeping the starter circuit supplied with current after the operation and return of the start contact switch, but making operation dependent on predetermined voltage and current conditions in all phase lines provided with cooperating relay pairs.

2,609,426

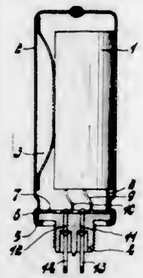
ELECTROLYTIC CONDENSER

Roelof Dirk Bügel, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application October 28, 1949, Serial No. 124,024
In the Netherlands November 1, 1948
3 Claims. (Cl. 175—315)

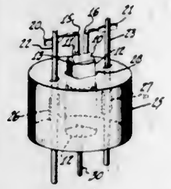
1. An electrolytic capacitor comprising a tubular metallic casing, a wound foil unit positioned axially within the casing, an elongated curved blade spring having a substantially flat middle

portion positioned between a portion of the inner wall of the casing and the foil unit and extending axially within the casing with the ends of the



spring resting on the inner wall of the casing, the substantially flat middle portion of said spring urging said foil unit sidewards against the opposite inner wall portion of said casing.

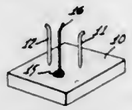
2,609,427
THREE-ELECTRODE SEMICONDUCTOR DEVICE
John P. Stelmak, Forest Hills, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 31, 1949, Serial No. 96,356
3 Claims. (Cl. 175—366)



1. A semi-conductor device comprising a cube-shape block of semi-conducting material having a substantially straight edge, a first electrode providing a low-resistance contact with said block, a second and a third electrode, each consisting of a ribbon of high tensile strength and softer than said block, each of said ribbons having a bend and a substantially right angle twist intermediate its ends, a metallic support for one end of each of said ribbons, the other end of each of said ribbons being provided with a knife edge, said supports being disposed with respect to said block so that said knife edges are disposed substantially at right angles with respect to said straight edge, and means for pressing the knife edges of said ribbons against said straight edge to provide intimate contacts of relatively small areas between said ribbons and said block.

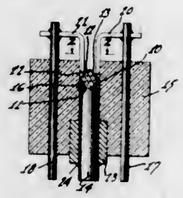
2,609,428
BASE ELECTRODES FOR SEMICONDUCTOR DEVICES
Harold B. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1949, Serial No. 113,283
11 Claims. (Cl. 175—366)

1. A semi-conductor amplifier or oscillator device comprising a semi-conducting body, and a plurality of electrodes in contact with said body, one of said electrodes being the base electrode, said base electrode having a contact resistance with said body which is lower than that of the other ones of said electrodes, whereby said base electrode controls the potential of the bulk of



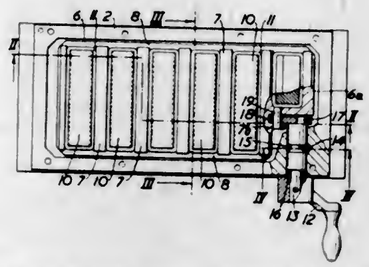
said body, the contact areas of said electrodes with said body having substantially equal size.

2,609,429
SEMICONDUCTION ELECTRODE CONSTRUCTION
Harold B. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 29, 1950, Serial No. 176,721
12 Claims. (Cl. 175—366)



1. A semi-conductor device comprising a semi-conducting body having at least two surfaces intersecting each other at an angle and a further surface, a metallic support in low-resistance contact with the further surface of said body, an insulating member having an aperture forming an inner surface and adapted to receive said body and said support, a pair of metallic elongated electrodes extending into said aperture, each of said electrodes having a point, and means for pressing each of said electrodes with the point individually against one of said two intersecting surfaces of said body and with said electrodes extending each along and against a predetermined portion of the inner surface of said member to define the distance between their contact areas with said body.

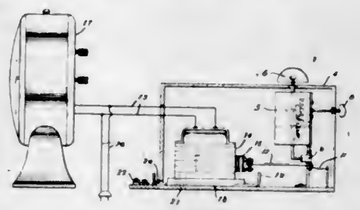
2,609,430
MAGNETIC WORK HOLDER
William L. Bower, Sheffield, England, assignor to James Neill & Company (Sheffield) Limited, Sheffield, England, a British company
Application January 26, 1950, Serial No. 140,642
In Great Britain January 21, 1949
1 Claim. (Cl. 175—367)



A magnetic work holder, comprising a top plate of magnetic material formed with a plurality of

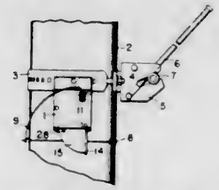
transversely disposed parallel slots therein, an equal plurality of pole pieces of magnetic material, each disposed in one of said slots in said top plate, each of said pole pieces having a thickness equal to that of said top plate and a length and a width less than those of the corresponding slot, thereby forming an annular gap about each pole piece, non-magnetic material filling the annular gaps between said pole pieces and said top plate, a base plate of magnetic material disposed in spaced parallel relation to said top plate, a frame of non-magnetic material extending between said top plate and said base plate and secured to each of them, said top plate, frame and base plate together constituting a closed hollow casing, a grid of magnetic material slidably disposed within said casing, said grid including a plurality of transversely disposed parallel tapering conductor bars of magnetic material extending the full length of the interior of the casing, said conductor bars tapering in an upward direction so that the bases of said bars are wider than their upper ends, and a pair of longitudinal members connecting together the ends of said conductor bars and of lesser depth so as to be spaced apart from said top plate, said conductor bars and longitudinal members together defining a plurality of transverse recesses extending through the thickness of said grid, a plurality of permanent magnets, each disposed in one of said recesses and having their polar faces engaged with the inner surfaces of said top and base plates respectively, each of said magnets having a length and width less than those of the recess in which it is disposed so as to be spaced apart both from the conductor bars and from the longitudinal members of the grid, non-magnetic, low-melting-point metal cast into the annular gaps between said magnets and said grid and uniting said magnets with said grid to form a solid block, and means extending through the wall of said hollow casing for causing longitudinal sliding movement of said block within said casing.

2,609,431
ELECTRIC POWER FAILURE ALARM DEVICE
Daniel J. Faltz, Irwin, Pa.
Application November 14, 1949, Serial No. 127,100
1 Claim. (Cl. 177—311)



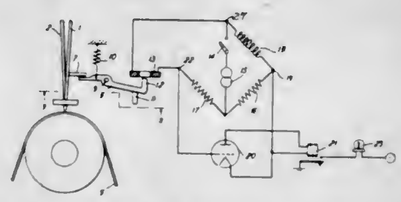
A warning device for control by the circuit of an electric clock or the like, comprising a case having a base therein, a solenoid on the base adapted for electrical connection to an electrical circuit, a movable core for the solenoid, an alarm bell and spring-driven mechanism therefor carried by the case, a trip lever for releasably locking the mechanism against operation, a connection between the trip lever and the core, a spring for moving the lever and the core, to release the mechanism when the clock circuit is broken and the solenoid deenergized, a slide bar on the base and projecting from the casing, parallel to the core and having a leg engageable with the core, to move the core and the lever to their holding positions and to releasably hold them there, and a latch for releasably holding the slide bar against the force of the spring that acts on the core and the lever.

2,609,432
FLASHOVER INDICATOR
Kenneth R. Steen, Portland, Oreg., assignor to the United States of America as represented by the Secretary of the Interior
Application July 10, 1950, Serial No. 172,995
2 Claims. (Cl. 177—311)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a flashover indicator the combination of an insulating case, an indicating drop hinged to be held in said case normally and to drop therefrom when released, coaxial openings in said case and in said drop and an explosive shatterable cartridge in said coaxial openings in said case and drop, said cartridge being placed in said openings in double shear to hold said drop normally in closed position.

2,609,433
PERFORATING RECORDER SIGNALING DEVICE
Harold W. Goff, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 28, 1947, Serial No. 750,942
5 Claims. (Cl. 177—311)

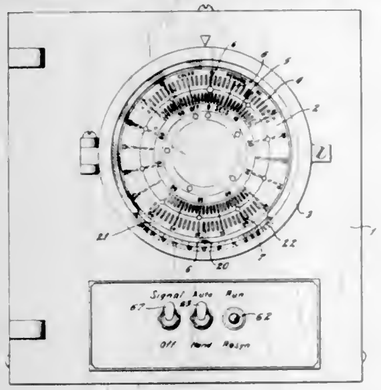


1. In combination, a plurality of displaceable parts, an alternating-current bridge circuit comprising a source of power, a contact element periodically closed to apply power from said source to said circuit, and a coil inductively responsive to the displacement of one or more of said parts, and means connected to two terminals of said bridge circuit and operative upon a phase difference of potential produced therebetween by the inductive response of said coil to the displacement of other than a predetermined number of said parts.

2,609,434
TRAFFIC SIGNAL CONTROLLER
Anton Diebold, New York, N. Y., assignor to The Marbelite Company, Inc., New York, N. Y., a corporation of New York
Application May 13, 1948, Serial No. 26,814
10 Claims. (Cl. 177—337)

1. In a traffic signal controller of the type having a rotary switching mechanism for controlling

the display of traffic signals at an intersection in a predetermined sequence with an electrically operated driving means for advancing said rotary switching mechanism in step by step movements in response to the actuation by a timing dial of switches connecting the electrically operated driving means to a source of electrical energy, the combination comprising a switching mechanism



operable by the electrically operated driving mechanism and a flasher mechanism operated independently of said driving mechanism, said switching mechanism and said flasher mechanism being in a circuit connecting the driving means to a source of electrical energy whereby said driving means is intermittently operated by said flasher mechanism when said switching mechanism is closed.

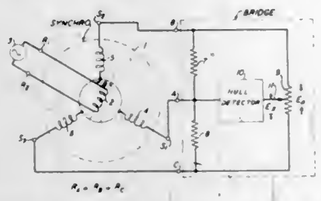
2,609,435

TEST SET FOR MEASURING THE ANGLE REPRESENTED BY SYNCHRO VOLTAGES

John H. Gerth, Winston-Salem, N. C., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 2, 1951, Serial No. 240,015

4 Claims. (Cl. 177—337)



1. Apparatus for determining the angle of rotation of a synchro transformer having an exciting winding capable of relative rotary motion with respect to three phase windings respectively connected to phase terminals comprising: two equal resistors connected in serial relationship, a null detector connected to the junction of said resistors, a potentiometer having resistor means equal in resistance to the resistance of either of said resistors connectable in parallel relationship with said resistors and a brush contacting said resistor means and connected to said detector, and a three-pole, three-position switch, having blades respectively connected to the free ends and the junction of said resistors, and contacts connected to said phase terminals so arranged that the operation of said switch will connect each phase terminal in succession to the junction of said resistors and the other two terminals to the free ends of said resistors.

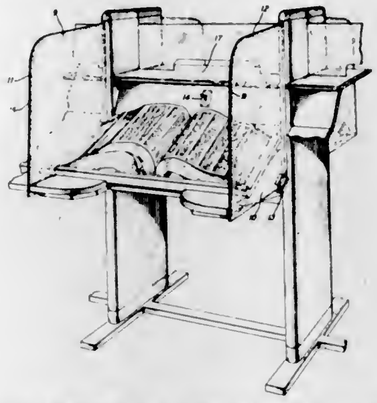
2,609,436

PARTITION

William T. Sermeus, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 26, 1950, Serial No. 164,555

7 Claims. (Cl. 177—339)



1. In a system for identifying a plurality of adjacent telephone operators' positions whereat a plurality of acrylic plastic baffle partitions are arranged to segregate each of said operators' positions from the adjacent operators' positions, indicator means comprising each of said baffle partitions having a substantial portion of the edge surfaces thereof roughened by frosting or the like so as to present an obstruction to light transmitted therethrough, a plurality of light sources, one individual to each of said baffle partitions and beng coupled thereto by close physical positioning so as to transmit light therein whereby said roughened edges are illuminated, and electrical switching means individual to each of said operators' positions and being connected to the light sources individual to the partitions thereof so as to control the energization of said light sources.

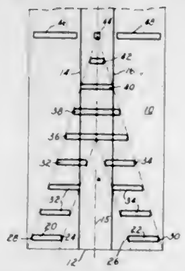
2,609,437

SURFACE MARKING SYSTEM FOR AIRCRAFT RUNWAYS

Maurice A. Garbell, San Francisco, Calif.

Application February 10, 1950, Serial No. 143,459

17 Claims. (Cl. 177—352)



1. A surface marking system for an aircraft runway substantially symmetrical with respect to an ideal runway centerline and commencing at a well defined runway threshold, for indicating longitudinal distance to a desirable touchdown point on the runway, comprising a plurality of transverse markings having a span smaller than the width of the runway and being arranged symmetrically with respect to the ideal runway centerline, the first transverse marking being positioned substantially at the runway threshold and the other transverse markings being substantially parallel with said one pair and respectively positioned at longitudinal stations located at different distances from said runway threshold toward said desirable touchdown point, the span of each respective and successive transverse marking being shorter than that of the transverse marking preceding it in substantially direct proportion with the decreasing height of a desirable approach glide path over the respective transverse markings along the runway, and all of said markings being arranged substantially flush with the surface of the runway.

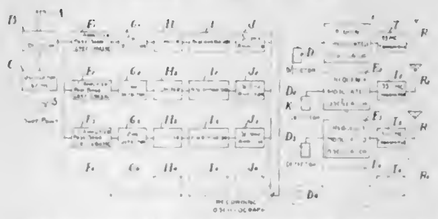
2,609,438

SEISMIC EXPLORATION APPARATUS

Alfred C. Winterhalter, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application January 24, 1947, Serial No. 724,057

3 Claims. (Cl. 177—352)



1. Seismic prospecting apparatus comprising a series of seismic detectors, frequency modulated oscillators individual to the detectors for producing low frequency signals frequency modulated by the seismic signals from the detectors, said low frequency signals all being of substantially the same frequency, high frequency radio transmitters producing high frequency signals modulated by said low frequency signals for transmitting said frequency modulated signals, said transmitters operating at different carrier frequencies, a receiver for signals transmitted from said transmitter, and means controlled by said receiver for differentiating and recording the detected seismic signals.

2,609,439

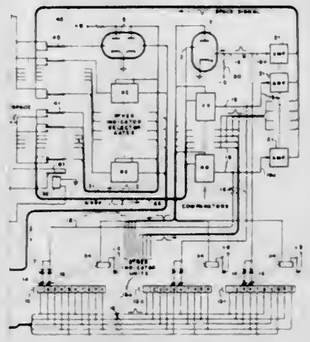
INDICATOR SETTING MECHANISM OPERABLE BY MEANS OF CHARACTER COMPARISONS

Joseph C. Marshall, Baldwin, and John J. Connolly, New York, N. Y., assignors to The Teleregister Corporation, New York, N. Y., a corporation of Delaware

Application September 20, 1949, Serial No. 116,752

11 Claims. (Cl. 177—353)

1. In combination, an indicator settable to different positions to manifest the significance of different character code signals, a commutator-and-brush arrangement operatively coupled to the indicator for signifying its orientation, a comparator and a step-by-step setting mechanism operatively associated with the indicator, a cyclically operable item storage device having a magnetic recording track, means for serially recording the character code signals on said track, read-out means including an electronic counting ring for serially and repetitively applying individual character code signals to said comparator, a synchronizer under control of the cyclic operation of said storage device, synchronizing pulse responsive means for coordinating the functioning of the comparator with a particular character recording position on the track of said storage device, and means for causing said comparator to initiate a step to be taken by its associated setting mechanism whenever the function-



ing of that comparator shows a lack of similitude as between the mark-space pattern of a character code signal to which the comparator responds and the code element pattern which is signified by the instant orientation of said commutator-and-brush arrangement.

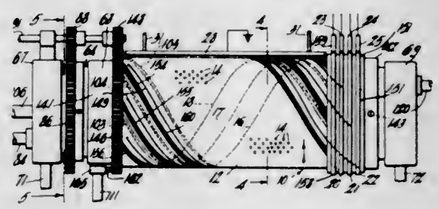
2,609,440

ELECTRICAL RECORDING IN COLORS

Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application October 30, 1947, Serial No. 783,074

13 Claims. (Cl. 178—5.4)



1. In a recorder, recording means for recording in a plurality of successive elemental areas of a recording medium, said plurality of successive elemental areas being spaced apart on said recording medium, means for producing relative scanning movement between the recording means and the recording medium, means providing a plurality of orifices of the order of image-elemental dimensions, means for supplying a separate sensitizing fluid to be projected from each orifice to the recording medium, and means to correlate the elemental area recording operations of the recording means and the fluid projection function of the orifices.

2,609,441

COMBINATION RADIO TELEVISION RECEIVING SYSTEM

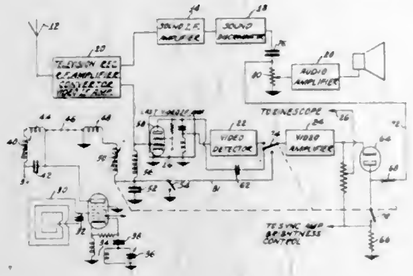
Eugene O. Keizer, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 1, 1949, Serial No. 130,528

2 Claims. (Cl. 178—5.8)

1. A communications receiver comprising a first signal source of demodulated television sig-

nals, a second signal source of intermediate frequency standard broadcast signals, a wide bandpass amplifier having input and output terminals, first switching means to selectively connect the input terminal of said wide bandpass amplifier to said first and second signal sources, rectifier means having input and output terminals,



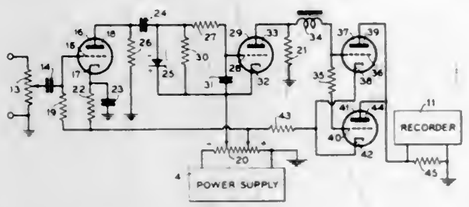
means connecting the input terminal of said rectifier means to the output terminal of said wide bandpass amplifier, a kinescope, an audio amplifier, and second switching means to selectively connect the output terminal of said rectifier means to said kinescope and to said audio amplifier.

2,609,442

RECORDER AMPLIFIER WITH GROUNDED POSITIVE AND BALANCED INPUT CIRCUIT

Frank A. Hester, New York, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware

Application December 29, 1948, Serial No. 67,793
1 Claim. (Cl. 178—6.6)



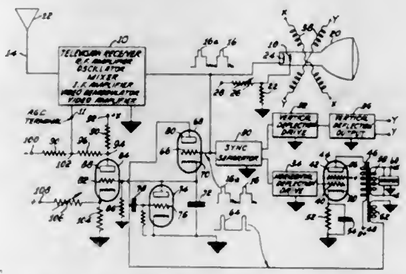
In a facsimile recording system of the type wherein recording current is passed through an electrolytic recording medium, the density of the resulting mark depending on the amount of current, and wherein the positive recording electrode is at ground potential; a recording amplifier receptive to a facsimile signal in the form of an amplitude-modulated subcarrier, and connected to the recording electrodes, comprising in combination: a common grounded-positive power supply, a balanced input amplifier circuit including a vacuum tube having at least a cathode, a control grid, and an anode, an input resistor connected at one end to ground and at the other end through a coupling capacitor to said control grid, a capacitor connected between said cathode and ground, and resistors connected from the negative side of the power supply to said cathode and to said control grid, said capacitors and resistors forming a substantially balanced bridge circuit, whereby power supply variations do not appear between said cathode and grid; a detector receptive to the output of said input amplifier circuit; and a direct-current amplifier receptive to the output of said detector, the output of said direct-current amplifier being connected to the recording electrodes; whereby variations in power supply voltage resulting from the marking current drawn by said direct-current amplifier are not fed back into the input circuit of the recorder amplifier.

2,609,443

KEYED AUTOMATIC GAIN CONTROL

Jack Avins, Staten Island, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 29, 1948, Serial No. 67,993
1 Claim. (Cl. 178—7.3)



In a radio receiver adapted to receive signals of the television type, said signals having a recurrent synchronizing pulse component representing a fixed percentage of carrier modulation, an automatic gain control circuit for the radio receiver comprising, in combination, a source of timing signals extending in a positive direction and synchronous with said recurrent synchronizing pulse component, a first statically non-conductive electron discharge tube having an anode, a cathode, and a control electrode, a connection for applying said timing signals to the anode of said first electron discharge tube to render said tube periodically conductive, means for applying to the control electrode of said first electron discharge tube television signals whose recurrent synchronizing pulse component extends in a positive direction, a point of reference potential, a capacitor connected between the cathode of said first electron discharge tube and the point of reference potential, a second statically nonconductive electron discharge tube having an anode, a cathode, and a control electrode, a connection between the anode of the second electron discharge tube and the cathode of the first electron discharge tube, a connection between the cathode of the second electron discharge tube and the point of reference potential, a connection including a capacitor between said source of timing signals and the control electrode of the second electron discharge tube to render said tube periodically conductive, whereby the voltage developed across said capacitor is a function of the value of the television signal when said first discharge tube is rendered conductive, and means to vary the gain of said receiver in accordance with said voltage.

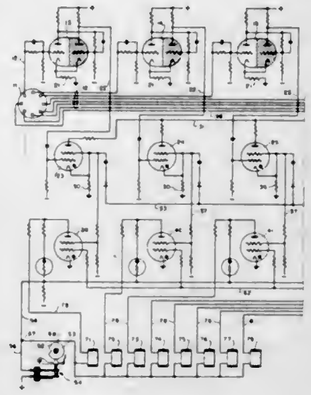
2,609,444

ELECTRONIC CONTROL CIRCUIT FOR PERFORATORS

Ransom D. Slayton, Elmhurst, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application August 5, 1950, Serial No. 177,791
15 Claims. (Cl. 178—17)

1. In combination with a continuously operating perforator provided with timing means and perforator control means, a source of code signal impulses, means for receiving the code impulses of a signal simultaneously, primary storage means controlled by said receiving means for storing the code impulses, secondary storage



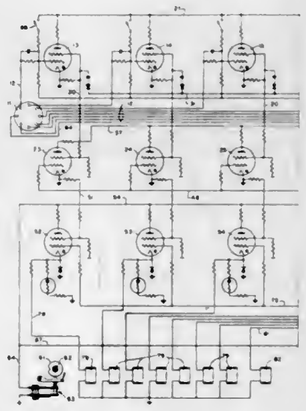
means, and transfer means controlled by said timing means for transferring the stored code impulses to said secondary storage means for controlling operation of said perforator control means.

2,609,445

ELECTRONIC CONTROL CIRCUIT FOR RECORDERS

Ransom D. Slayton, Elmhurst, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application June 12, 1951, Serial No. 231,071
19 Claims. (Cl. 178—17)



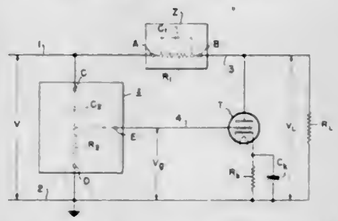
1. In combination with a continuously operating recorder provided with timing means and recorder control means and a source of code impulses, means for receiving said code impulses substantially simultaneously, storage means, means controlled by said receiving means for transferring the selection from said receiving means to said storage means, output means, and means controlled by said timing means and said transfer means for transferring the selection in said storage means to said output means for controlling operation of said recorder control means.

2,609,446

ELECTRONIC FREQUENCY ELIMINATING APPARATUS

Walter C. Michels, Strafford, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

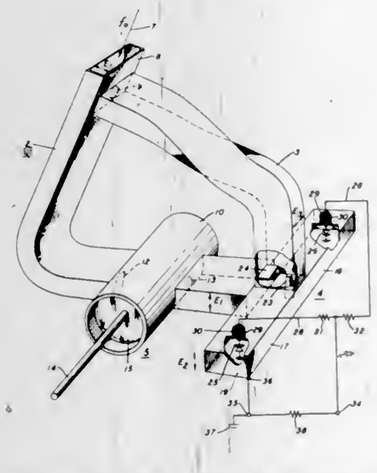
Application December 31, 1949, Serial No. 136,340
6 Claims. (Cl. 178—44)



1. A frequency eliminating, transconductance bridge circuit comprising first and second input conductors adapted to be connected across a source of voltage having a steady voltage component and a plurality of fluctuating voltage components of various frequencies including at least one fluctuating voltage component of a predetermined frequency to be eliminated, a load impedance having one end connected to said second conductor, a third conductor connected to the second end of said load impedance, a first impedance device connected between said first and third conductors, an electronic valve having a first output electrode connected to said third conductor, having a second output electrode, and having a control electrode, a bias resistor connecting said second output electrode to said second conductor, the value of said bias resistor being so chosen as to cause the operation of said valve to take place over a substantially linear portion of the characteristic transfer curve of said valve, a bypass condenser connected in parallel with said resistor, a second impedance device having three terminals, a connection between one of said terminals and said first conductor, a connection between the second of said terminals and said second conductor, a connection between the third of said terminals and said control electrode, a resistive element and a reactive element included in said second impedance device and connected in series between said one and said second terminals, a connection between said third terminal and said elements operative to apply the voltage drop across one of said elements between said control electrode and said second output electrode, the values of said elements being so chosen as to cause said voltage drop to consist solely of a signal fluctuating solely at said predetermined frequency and having a magnitude which is dependent solely upon the magnitude of said one fluctuating voltage component and which is independent of the magnitude of said steady voltage component, the value of said bypass condenser being so chosen as to prevent the appearance across said bias resistor of any voltage having said predetermined frequency, said valve being operative, under the control of said signal, to produce across said first impedance device a voltage drop solely of said predetermined frequency and of a magnitude dependent upon that of said signal, the values of the elements of said impedance devices being so chosen as to cause the magnitude of the last mentioned voltage drop to be substantially equal to that of said one fluctuating voltage component, and a second condenser included in one of said impedance devices and having such a value as to be operative to cause said voltage drop across said first impedance device to be of the proper phase to effect substantially complete cancellation

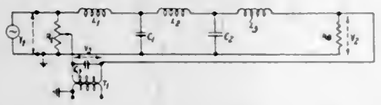
of said one fluctuating voltage component and hence to prevent the appearance of any voltage of said predetermined frequency across said load impedance, whereby the appearance across said load impedance of the other of said fluctuating voltage components and of said steady voltage component is not appreciably affected.

2,609,447
FREQUENCY DISCRIMINATOR
Robert P. Graef, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 3, 1950, Serial No. 193,845
19 Claims. (Cl. 178—44)



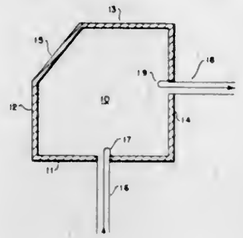
1. In combination, two transmission paths having lengths S_1 and S_2, respectively, and cut-off wavelengths λ_1 and λ_2, respectively, so proportioned that the difference θ between the phase shifts therein is substantially constant over a considerable range of frequencies, an adjustable resonant impedance associated with one of said paths, and a hybrid junction having a pair of conjugate points, said paths being connected together at one end and to said points, respectively, at their other ends.

2,609,448
ELECTRICAL DIFFERENTIATING CIRCUIT
Leslie Herbert Bedford and Lionel Jofeh, London, England, assignors to A. C. Cossor Limited, London, England, a British company
Application June 1, 1945, Serial No. 597,049
In Great Britain June 7, 1944
5 Claims. (Cl. 178—44)



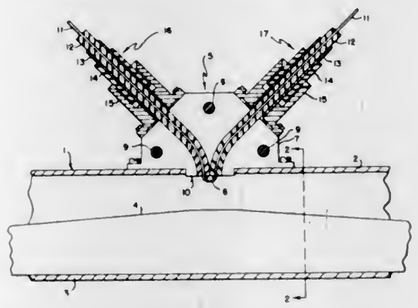
3. In combination, a variable amplitude and fixed frequency signal source, a uniformly loaded delay line connected across said source and having a high resistance connected across the end thereof, a voltage divider spanning said signal source, and an output circuit for yielding the difference between the voltages developed across said resistance and across a fractional part of the voltage divider.

2,609,449
CAVITY RESONATOR
Eleanor G. Otis, Bradford, Mass., and Winfield W. Salisbury, Cedar Rapids, Iowa, assignors to the United States of America as represented by the Secretary of War
Application March 4, 1946, Serial No. 651,938
3 Claims. (Cl. 178—44)



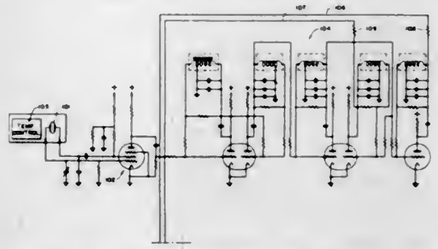
1. A high frequency cavity resonator for modulated carrier energy comprising a hollow, closed, electrically conducting surface in the form of a cube except that two of its sides are intersected by an additional side forming angles other than 90° at the points of intersection, the internal dimensions of said resonator being large compared to the wavelength of said energy, whereby said cavity resonator is resonantly responsive to a plurality of side band frequencies of energy exciting said cavity resonator.

2,609,450
RADIO FREQUENCY WATTMETER
Harold C. Early, Ann Arbor, Mich., assignor to the United States of America as represented by the Secretary of War
Application April 30, 1946, Serial No. 665,991
4 Claims. (Cl. 178—44)



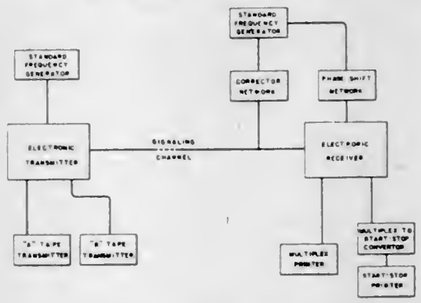
3. A wattmeter for measuring radio frequency energy comprising a waveguide of rectangular cross-section for the propagation of electromagnetic energy, a tubular pick-up element having a substantially flat portion and partially looped portions, means supporting said pick-up element in an off-center position in said waveguide with said flat portion normal to a component of the electric field of said electromagnetic energy and said partially looped portions normal to a component of the magnetic field of said electromagnetic energy, and a pair of means coupled to opposite sides of said partially looped portions for obtaining a pair of signals therefrom whereby said signals give an indication of the electromagnetic energy propagated in said transmission means in one direction and in the reverse direction, respectively.

2,609,451
MULTIPLEX TELEGRAPH SYSTEM UTILIZING ELECTRONIC DISTRIBUTORS
Theodore A. Hansen, Park Ridge, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 15, 1948, Serial No. 54,772
11 Claims. (Cl. 178—50)



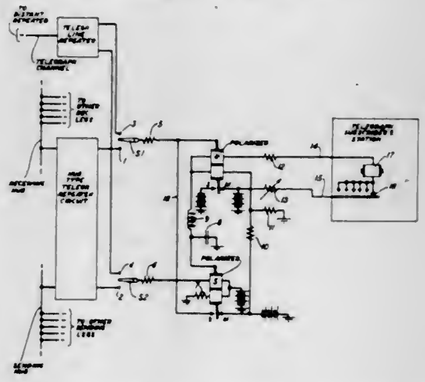
1. In a multiplex telegraph transmitter, a plurality of sources of signals, each source comprising signals from a different communication channel, a plurality of groups of matrix tubes, one group connected to each of said sources of signals and conditioned thereby, an electron tube channel distributor for further conditioning each of said groups of matrix tubes in succession, an electron tube impulse distributor for successively causing the operation of conditioned ones of said matrix tubes in each group of said matrix tubes for controlling signal transmission on a single channel from all said different sources, a source at a time, and means for driving said channel distributor by said impulse distributor, whereby after said impulse distributor has operated conditioned matrix tubes in one of said groups said channel distributor will further condition the matrix tubes of a succeeding group.

2,609,452
MULTIPLEX TELEGRAPH SYSTEM EMPLOYING ELECTRONIC DISTRIBUTOR
Theodore A. Hansen, Park Ridge, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application May 28, 1945, Serial No. 596,295
10 Claims. (Cl. 178—50)



1. In a telegraph transmitter, a tape sensing device, an electronic distributor comprising a plurality of tubes operating continuously in timed succession, a plurality of secondary tubes each including an anode and a control grid, said control grid of each of said secondary tubes being connected to the output of an associated one of said distributor tubes, said anode of each of said secondary tubes being connected to said tape sensing device, said secondary tubes operating under the joint control of said control grids and anodes, and means under the control of said secondary tubes to transmit code signals to a signaling channel.

2,609,453
HALF DUPLEX TELEGRAPH REPEATER, INCLUDING BREAK FEATURE
Wilton T. Rea, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 27, 1949, Serial No. 118,118
4 Claims. (Cl. 178—70)

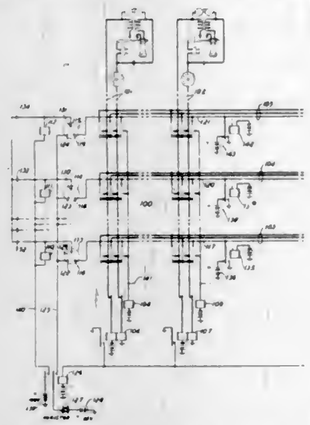


2. In a telegraph loop repeater, a sending relay, a receiving relay, an armature on each of said relays, a first circuit path extending directly from battery of a first polarity through a first contact and said armature of said sending relay, through an operating winding of said receiving relay, through a subscriber's telegraph loop circuit and back to battery of a second polarity for a first signaling condition, a second circuit path extending from battery of said second polarity directly through a first contact and said armature of said receiving relay, through a second contact and said armature of said sending relay for a second signaling condition, a sending leg extending from a second telegraph repeater through an operating winding of said sending relay, a receiving leg extending from said armature of said receiving relay into said second repeater and a biasing circuit extending from said armature of said sending relay through a biasing winding on said receiving relay.

2,609,454
SELECTING AND LOCKOUT CIRCUIT
George Hecht, Astoria, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 29, 1948, Serial No. 35,851
5 Claims. (Cl. 179—18)

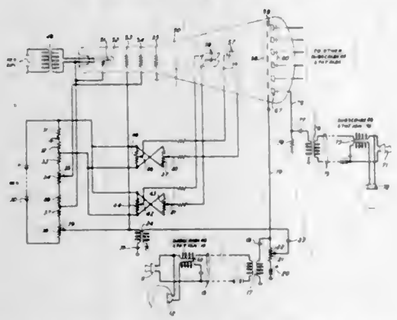
1. In an arrangement for interconnecting any one circuit of a first group of circuits to any circuit of a second group, the combination comprising a plurality of gaseous discharge tubes, each including a main space path and a control space path, a power source, a resistance element having a negative current coefficient of resistance, individual control means for said first circuit operatively responsive to a calling condition, connecting means rendered effective responsive to operation of the individual control means of any of said first group of circuits for connecting said resistance element and said power source to the control space paths of said gas discharge

tubes, whereby said control space paths are connected in a low impedance parallel connection with respect to one another and the combination thereof is connected in series with said power source and said resistance element through said connecting means when any one of said first group of circuits requests to be connected to one of said second group of circuits thereby applying an ionizing potential to said control space paths through said resistance element, a second power source, a plurality of actuating means individually connected to each of said main space paths, means connecting said second power source to all of said actuating



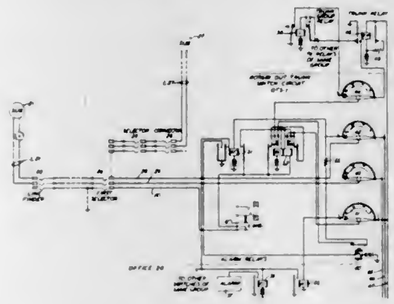
means, one of said actuating means interconnecting one of said second group of circuits associated therewith to the calling one of said first group of circuits, said resistance element preventing more than one of said control space paths from being ionized at the same time by developing a potential thereacross opposing the potential of said first power source incident to the ionization of one of said control space paths, the resistance of said element thereafter being reduced due to current flow therethrough so as to facilitate rapid operation of the actuating means associated with said ionized main space path.

2,609,455
TELEPHONE SYSTEM
Albert E. Bachelet, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 30, 1949, Serial No. 130,281
2 Claims. (Cl. 179—18)



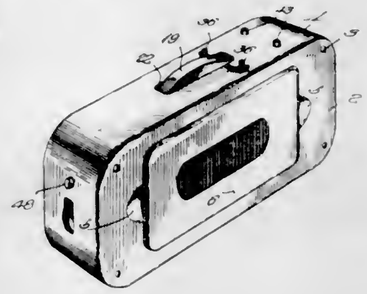
1. In a telephone system comprising a plurality of telephone stations, an electron beam tube comprising a plurality of secondary electron emissive target anodes, means for selectively projecting an electron beam toward any desired one of said target anodes to effect energization of said one anode, a shield electrode having apertures for passing the beam to each of said target anodes, means individually connecting said shield electrode to one of said telephone stations, and means individually connecting each of said target anodes to a different one of other telephone stations, said shield and the energized one of said target anodes in combination with said individually associated connecting means constituting a two-way talking connection between said one station and the other station which is connected to the energized target anode.

2,609,456
ROTARY OUT-TRUNK SWITCHING ARRANGEMENT
Oliver C. Hall, Fair Lawn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 9, 1950, Serial No. 178,518
4 Claims. (Cl. 179—18)



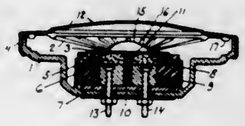
1. In combination in a telephone system comprising a plurality of central offices each including switching means for completing conversational connections between calling and called subscriber stations, a plurality of rotary switches each comprising a plurality of wipers and sets of terminals and means for advancing the wipers from each set of terminals to the next, a group of outgoing trunks extending to one of said offices, each of said trunks connected to one of the sets of terminals in each of said rotary switches, auxiliary trunk circuits, one for each of said switches, incoming trunks, each of said incoming trunks connected to a different one of said auxiliary trunk circuits, relay means individual to each outgoing trunk operated when the trunk is busy, means individual to each of said switches for effecting the advance of the switch to the next set of terminals responsive to operation of said relay means associated with the trunk connected to the set of terminals engaged by the wipers of the switch when this trunk is seized through another of said switches, means in each of said trunk circuits normally connecting the associated incoming trunk to the wipers of the associated rotary switch and therethrough to one of said outgoing trunks, means associated with each outgoing trunk effective when an incoming trunk to which it is connected is seized for operating said relay means individual to said outgoing trunk, and means comprising relay means in the auxiliary trunk circuit associated with the seized incoming trunk rendered effective in case the rotary switch is being advanced at the time the incoming trunk is seized for opening the connection between sad incoming trunk and the wipers of the associated rotary switch.

2,609,457
ELECTROMAGNETIC SOUND RECORDER AND REPRODUCER
Léon Thurm, Mondorf-les-Bains, Luxemburg
Application March 16, 1949, Serial No. 125,493
2 Claims. (Cl. 179—100.2)



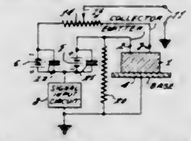
1. An electromagnetic sound recorder and reproducer comprising in combination a casing, a driving member rotatably mounted within said casing, removable reel casings insertable within said casing and shiftable therein, a set of tape reels mounted within each of said reel casings, means for selectively connecting said driving member to said reels whereby the tapes thereupon may be caused to travel in opposite directions, reproducing heads shiftable laterally across the tapes of said reels, means for connecting said reel casings to said reproducing heads and means for manually shifting said reel casings whereby said reproducing heads will be caused to be moved laterally across the tapes of said reels.

2,609,458
TELEPHONE APPARATUS
Sten Daniel Vigren and Gustaf Ernfrid Gustafsson, Stockholm, Sweden
Application May 17, 1950, Serial No. 162,451
In Sweden January 16, 1948
9 Claims. (Cl. 179—127)



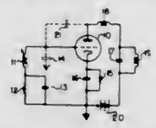
1. A telephone transmitter comprising, in combination, a granular carbon containing chamber, a stiff diaphragm, the central part of one side of said diaphragm being electrically conductive and reciprocatingly movable in operative relation to the granular carbon mass in said chamber, a fixed support for supporting only the other side of the diaphragm at its periphery for heavily damping the movement of the diaphragm, when moving away from the granular carbon mass upon being exposed to the rarefaction phase of a sound wave, said other side of the diaphragm at the periphery being entirely free to move towards the granular carbon containing chamber, when the diaphragm is exposed to the compression phase of a sound wave.

2,609,459
HIGH INPUT IMPEDANCE TRANSISTOR AMPLIFIER
Gustav Bergson, Germantown, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1948, Serial No. 68,345
5 Claims. (Cl. 179—171)



5. An amplifier circuit for a device consisting of a semi-conducting material provided with a first base electrode of relatively large area and two further electrodes of relatively small area, said circuit comprising means including a source of power connected to said electrodes for supplying operating potentials to said device, means maintaining said first electrode at a substantially fixed potential, a source of input signal connected between said first electrode and one of said further electrodes, a first network including a first impedance element between said first electrode and one of said further electrodes, a second network including a resistor coupled directly between said further electrodes, and output connections for connection to a load circuit directly coupled to an intermediate point of said resistor and to said base electrode, thereby to increase the effective input impedance of said device.

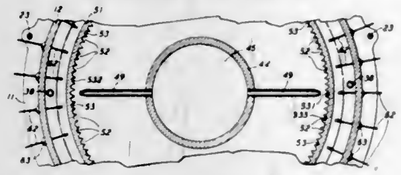
2,609,460
TUNABLE CONSTANT BAND-WIDTH SIGNAL-TRANSLATING STAGE
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application June 22, 1946, Serial No. 678,709
5 Claims. (Cl. 179—171)



1. A signal-translating stage for operation over a wide range of high frequencies comprising: a vacuum tube having an anode, a cathode and a control electrode; a frequency-selective input circuit connected with said cathode and control electrode and primarily inductively tunable over said range; an output circuit for said stage including reactance means of a first type and reactance means of a second type serially connected to said anode and cathode; said signal-translating stage having incidental reactive characteristics with respect to said input circuit tending to develop thereacross a first component of positive conductance which varies with frequency over said range; and a feed-back circuit from said output to said input circuits including said reactance means of said first type and additional reactance means of the same type so proportional as to introduce into said input circuit a second component of positive conductance having a constant value over said range and including said reactance means of said second type coupled to said additional reactance means and being so proportioned as to introduce into said input circuit a component of negative conductance which is substantially equal to and varies with fre-

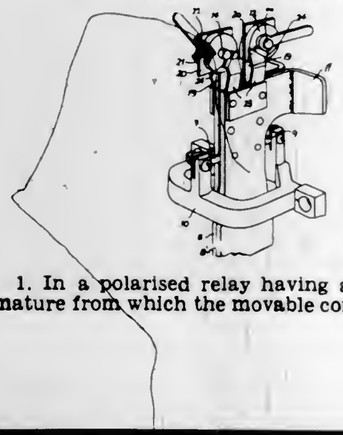
quency in the same manner as said first component of positive conductance; said proportioning of said first-mentioned reactance means being substantially determined by the product of the transconductance of said tube and at least a portion of the interelectrode capacitance between a predetermined pair of electrodes thereof divided by the amount of said second component which it is desired to utilize and said proportioning of said second type of said reactance means being substantially determined by said component of said negative conductance divided by the product of said transconductance, said portion of said interelectrode capacitance and a power of said frequency; whereby said input circuit experiences a substantially constant finite value of positive conductance at all frequencies within said range.

2,609,461
HIGH-SPEED CONTACTOR
Arthur L. Holcomb, Tarzana, and Minard A. Leavitt, Concord, Calif., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 13, 1950, Serial No. 200,668
18 Claims. (Cl. 200—32)



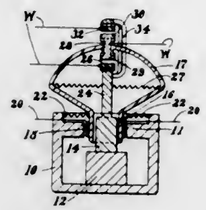
11. A high speed contactor comprising a vessel, a liquid conductor within said vessel, a flat disc defining a rotor rotatably supported within said vessel, a cooperating stator external to said vessel, an insulating ring within said vessel having a plurality of closely spaced grooves therein, electrical contacts positioned in some of said grooves, a nozzle rotatable with said rotor, and means including said rotor and said stator for circulating said liquid conductor in said vessel and for ejecting said liquid conductor against said contacts, each of said contacts being separated from said adjacent contact along said ring by at least one of said grooves.

2,609,462
POLARIZED RELAY
Raymond John Joseph, Ferndown, Northwood Hills, England, assignor to E. Shipton & Company Limited, Ferndown, Northwood Hills, England, a British company
Application November 29, 1949, Serial No. 130,047
In Great Britain November 29, 1948
11 Claims. (Cl. 200—93)



1. In a polarised relay having a balanced armature from which the movable contacts are supported, a balanced armature assembly comprising an armature, a central leaf spring extending from said armature, an insulating member mounted adjacent the free end of said central leaf spring, electric contacts carried by said insulating member, and two outer damping leaf springs disposed respectively on each side of said central leaf spring, said outer springs being each secured at one of their ends to the armature and having their free ends pressing respectively on opposite sides of the insulating member and spaced from the contacts carried thereby.

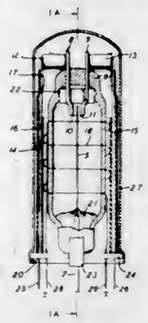
2,609,463
ELECTRIC ACTUATING DEVICE
Joseph A. Hassan, Quincy, Mass., assignor of one-half to Fauthal A. Hassan, Quincy, Mass.
Application October 26, 1948, Serial No. 56,509
6 Claims. (Cl. 200—110)



1. An electrical actuating device comprising a supporting frame, a magnet supported thereby, a supporting member supported by said magnet, an actuating member movably supported by said supporting member and flaring outwardly and upwardly to an intermediate portion thereof and then tapering inwardly and upwardly, an electrical coil extending around a portion of said actuating member and between portions of said supporting frame, said actuating member embodying an upper portion extending above said coil, a substantially flat, flexible spider attached at its outer portion to said supporting frame and having a hole therein through which said actuating member extends, said spider being attached at its inner portion to said actuating member and movable therewith, another substantially flat spider spaced from the first-mentioned spider attached at its outer portion to an intermediate portion of said actuating member and movable therewith and at its inner portion to said supporting member.

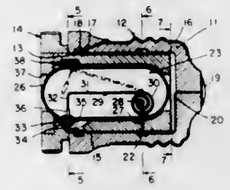
2,609,464
RELAY
John T. L. Brown, Short Hills, and Charles E. Pollard, Jr., Hohokus, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 5, 1949, Serial No. 119,596
6 Claims. (Cl. 200—112)

1. A relay comprising a hermetically sealed tube, an armature arranged longitudinally within said tube, pole-pieces extending through said sealed tube, contact points secured upon said pole-pieces, said armature extending between said contact points, mercury within said sealed tube, capillary grooves in said armature to provide a path for said mercury to flow to the contact surfaces on said armature, and magnetic means external to said sealed tube to actuate said armature, said pole-pieces having flat surfaces exposed toward said armature, said flat surfaces having a chro-



mium oxide coating which will not easily wet with mercury.

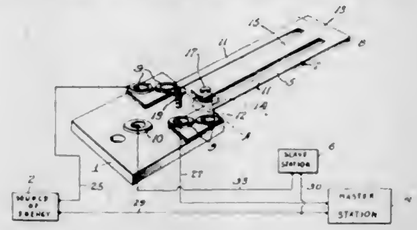
2,609,465
AUTOMATIC RESETTING OVERLOAD SWITCH
Aaron Goldsmith, Los Angeles, Calif.
Application May 31, 1951, Serial No. 229,120
12 Claims. (Cl. 200—113)



1. An automatic resetting overload switch comprising a housing having two external terminals adapted to make electrical connection in an electric power circuit, said housing having an axial cylindrical cavity; a bulb mounting member arranged in said cavity and adapted to be turned axially therein; a gas-filled breaker switch bulb mounted in said mounting member, said bulb having a mercury well adjacent the front end thereof, and having a sealed-in contact wire in the bottom of said mercury well, and also having a lead-in wire adjacent the rear end of said bulb; a globule of mercury in said well; means to connect said sealed-in contact wire with one of said external contact members; means to connect said lead-in wire to the other of said external contact members; and a bi-metallic bar mounted within said bulb and arranged for lever movement at one end, said bar having a dipping point at the lower end arranged to make contact with the mercury in said well, said dipping point being arranged to break contact with said mercury in said well when said bar is over-heated by the passage of an overload current through said switch bulb.

2,609,466
THERMORELAY ELEMENT
Isaac S. Blonder, Mount Vernon, N. Y.
Application June 12, 1951, Serial No. 231,212
7 Claims. (Cl. 200—113)

1. A thermal relay having a base and two bi-metal arms and an intermediately disposed bi-metal tongue extending from the base, the width of the tongue being about two to three times the width of each of the arms, an insulating support to two points of which are secured, along an edge thereof, the free ends of the arms to permit the arms to bend about the edge away from the support in response to temperature variations, the securing means being provided with electric terminals for connecting the arms in series circuit with a source of energy to effect the said temperature variations in the relay, and the tongue having a contact member at its free end and being free to move at its free end past the said edge in order that the tongue may move



in a direction opposite to the direction of bend of the arms, a further contact member disposed between the said two points for cooperating with the tongue contact member, and electrical terminal means connected with the further contact member for connecting one of the arms and the tongue in series circuit with the source of energy when the tongue contact member and the further contact member are in engagement.

2,609,467
MERCURY SWITCH
George W. Winter, Crooksville, Ohio
Application December 13, 1948, Serial No. 64,950
15 Claims. (Cl. 200—152)

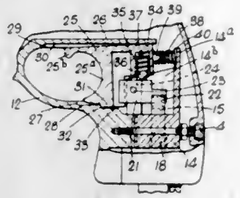


1. A switch comprising a plurality of non-conducting substantially flat separators positioned adjacent to each other in face-to-face relationship, the rim portions of said separators being in substantially contiguous relationship, a recess defined by facing walls of adjoining separators within the rim portions thereof, conductor means within two or more recesses on either side of an intermediate separator and extending externally of the separators, said intermediate separator having aperture means therein establishing communication between said recesses, whereby a fluid conductor may be placed in said recesses to complete a circuit between said conductor means through said aperture means.

2,609,468
SWITCH ACTUATOR FOR PORTABLE HAND TOOLS
Charles Henry Gubbins, London, England, assignor to Wolf Electric Tools Limited, London, England, a British company
Application May 24, 1950, Serial No. 163,876
In Great Britain March 31, 1950
2 Claims. (Cl. 200—157)

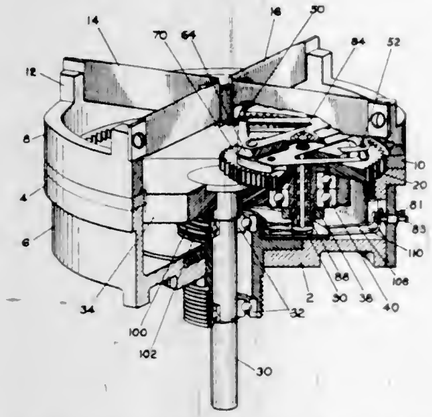
1. In a portable hald tool comprising a casing, a spindle projecting from said casing and adapted to carry a working implement and an electric motor mounted within said casing and adapted to drive said spindle, the provision of a switch to control the flow of current to said motor. said

switch comprising a pair of parallel guiding frames formed on said casing, a trigger mounted between said guiding faces to control said switch, a spring acting on said trigger, primarily to maintain said trigger in the position corresponding to the "off" position of the switch, one of said guiding faces formed with a recess and the trigger formed with a projection the arrangement being such that when the trigger is moved to the position corresponding to the "on" position of the



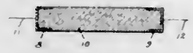
switch the recess and the projection will be brought into register and the spring will tend to cant the trigger to engage said projection and recess for the purpose of retaining the switch in the "on" position until the trigger is canted in the opposite direction when the projection will be disengaged from the recess whereupon the spring will tend to return the trigger to the position corresponding to the "off" position of the switch.

2,609,469
SINUSOIDAL POTENTIOMETER
Adrian M. Matthews, Bristol, Conn.
Application November 19, 1951, Serial No. 257,028
5 Claims. (Cl. 201—48)



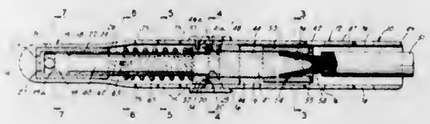
1. An apparatus for deriving voltages which are respectively proportional to the sine and cosine of the angular movement of a shaft or other part, comprising a fixed internal ring gear, a planetary gear meshing with the internal ring gear and having a gear diameter equal to one-half that of the ring gear, a rotatable shaft concentric with the ring gear, a crank arm on said shaft supporting the planetary gear for rotation about its own center whereby angular movement of the shaft causes the planetary gear to travel about the ring gear, and rotate about its own axis, two co-planar linear resistance elements arranged at right angles to each other and each extending diametrically across the ring gear above and adjacent the planetary gear, two contact members mounted on the planetary gear at diametrically opposed points thereof and being respectively in sliding engagement with the resistance elements, means for causing equal current flow in said resistance elements, and means responsive to the voltage drop between the center point of each resistance element and the contact in engagement therewith.

2,609,470
RESISTANCE MATERIALS AND ELEMENTS
Frederic R. Quinn, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 22, 1949, Serial No. 106,293
34 Claims. (Cl. 201—63)



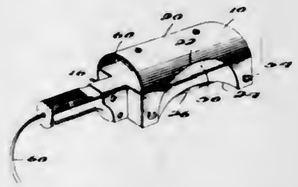
1. A stable electric resistance unit comprising a body of resistance material consisting essentially of a pressed mixture of metal sulfides including (1) from 3 to 95 per cent of a sulfide of a metal of group II of the periodic table selected from the class consisting of magnesium, calcium, zinc, cadmium, barium and mercury, and (2) molybdenum sulfide and metal leads electrically connected to said body of resistance material.

2,609,471
WELDING ROD HOLDER
Harold B. Bergeson, Wilmington, Ill.
Application March 2, 1950, Serial No. 147,266
6 Claims. (Cl. 219—8)



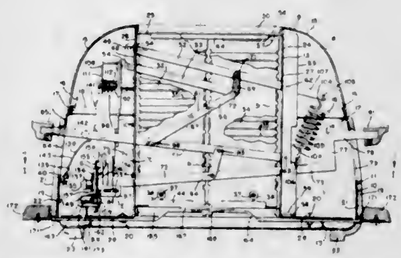
1. A welding electrode holder comprising a substantially tubular-shaped shield member having one closed end and having an opening extending through the side wall of such one end portion, and means for clamping such an electrode in operative position in said opening with said electrode disposed in electrically insulated relation to said shield, said means comprising a substantially tubular-shaped insulation member mounted in said one end portion of said shield and having an opening formed in a side wall thereof in registration with said first mentioned opening, for the reception of such electrode disposed in said first mentioned opening, one edge portion of said opening in said insulation member being disposed diametrically inwardly of the corresponding edge portion of said first mentioned opening, an elongated screw slidably and non-rotatably mounted in said insulation member and having an end adapted to engage said electrode to thereby operatively clamp said electrode against the portion of said insulation member defining said one edge portion of said opening in said insulation member, and means for moving said shield and said insulation member longitudinally of said screw to thereby move said screw and said one edge portion of said opening in said insulation member into and out of clamping position relative to said electrode disposed in said last mentioned opening, said last named means comprising advancing means mounted on and threadedly engaged with said screw for movement longitudinally of said screw upon rotation relative thereto, said advancing means being disposed on said screw in position to press said shield and said insulation member longitudinally outwardly on said screw when said advancing means is moved in one direction longitudinally of said screw, and spring means operatively connected between said shield and said screw for urging said shield member and said insulation member inwardly longitudinally of said screw upon movement of said advancing means in the other direction longitudinally of said screw.

2,609,472
DEFROSTER
Myrtle M. Schultz, Texarkana, Ark., assignor, by direct and mesne assignments, of six-tenths to C. B. Schultz, Miller County, Ark., and one-tenth to Bryan Blalock, Texarkana, Tex., and three-tenths to Thomas B. Westbrook, Smith County, Tex.
Application September 29, 1948, Serial No. 51,810
4 Claims. (Cl. 219—19)



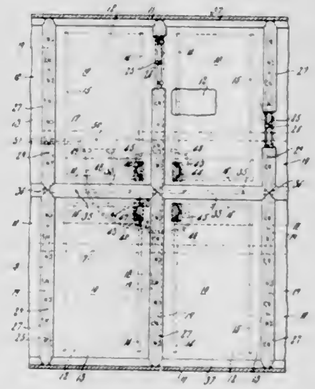
1. In a defroster, a base tray for receiving a heating unit, a second tray of heat insulating material nested in said base tray, a transverse partition in said second tray dividing the same into a major compartment and a minor compartment, an electric heater in said major compartment, heater leads extending through said partition and being connected in said minor compartment to an electric cord, and a telescopic cover for said base tray, said cover having side walls exceeding in depth the side walls of said tray, fastening means for securing said base tray adjacent to the upper portion of said cover whereby the lower face of said tray is held above a supporting surface by said walls.

2,609,473
COLOR CONTROL FOR ELECTRIC BREAD TOASTERS
Henry L. Olson and Robert A. Miller, Grand Haven, Mich., assignors to Camfield Manufacturing Company, Grand Haven, Mich., a corporation of Michigan
Application December 23, 1949, Serial No. 134,668
13 Claims. (Cl. 219—19)



9. In combination, a frame comprising vertically extending end plates and flanges extending outwardly therefrom, a bread toasting oven disposed within said frame, heating means therefor, a timing mechanism disposed adjacent one of said end plates and including a revoluble member having a vertical axis disposed above the flange on said end plate and adapted upon rotation to vary the timing period, an electric switch actuated by said timing mechanism and controlling the energization and deenergization of said heating means, a pinion rotatable with said revoluble member and disposed above said flange, a lever extending longitudinally of said frame and disposed below said flanges, pivot means acting between said lever and frame and disposed intermediate the end plates of said frame and guiding said lever for movement in a substantially horizontal plane, a rack meshing with said pinion and disposed in a horizontal plane, said rack being disposed above said flange, said flange having a transverse slot therein below said rack, a post mounted on said lever and extending through and movable along said slot, pivot means between said rack and post and a keeper engageable with said rack and holding said rack in mesh with said pinion.

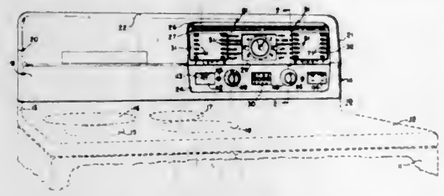
2,609,474
RADIANT HEATING INSTALLATION
Elbert De F. Tidd, Clinton, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 19, 1950, Serial No. 139,397
1 Claim. (Cl. 219—19)



An electrical radiant heating panel installation in a room surface comprising in combination a flat heating panel, stringers secured to said room surface in parallel relation spaced according to the width of the panel, a channel piece on the surface of each stringer, said channel piece having flange portions along its marginal edges for fastening to the stringer, and said channel piece having a central raised portion, the rear edge surfaces of the panel fitting against said flange portions of the channel and the side edge surface of the panel fitting against said raised portion of the channel, the front face of said raised portion of the channel being substantially flush with the front face of the panel, cleats rotatably fastened to said front face of the channel for movement into engagement with the front face of the panel to maintain the panel in place in said room surface, the said channel having a recess in its interior, and a snap-on

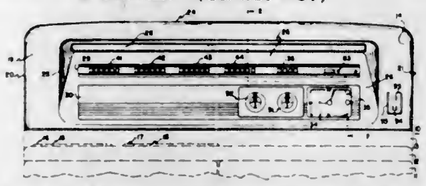
masking molding covering the edge of the panel and said cleats, said molding having prongs extending from its interior surface into holes in the front face of the channel, and spring means disposed within the recess in said channel at said holes for engaging the prongs to maintain the molding in place.

2,609,475
ILLUMINATED BACKSPLASHER FOR ELECTRIC RANGES
Ray C. Sandin, Oak Park, and Thomas M. Steinbach, Chicago, Ill., assignors to Hotpoint Inc., a corporation of New York
Application July 27, 1949, Serial No. 107,064
2 Claims. (Cl. 219—37)



1. In an electric range including a cooking top, a surface heating unit carried by said cooking top, a source of current supply, and a hollow backsplasher provided with an upstanding and laterally extending front wall having an opening formed therein and carried by said cooking top adjacent to the rear thereof; the combination comprising an upstanding and laterally extending trim plate carried by said front wall and covering said opening, said trim plate having a plurality of vertically spaced-apart guide slots formed therein, a pushbutton switch mounted in said backsplasher and provided with an off pushbutton and a plurality of control pushbuttons arranged in vertically spaced-apart relation and projecting forwardly through said opening and thence through corresponding ones of said guide slots, said off pushbutton being operative to actuate said switch to disconnect said surface heating unit and said source of current supply, said control pushbuttons being selectively operative to actuate said switch selectively to complete corresponding different heating rate connections between said surface heating unit and said source of current supply, said trim plate having a laterally extending window formed in the upper portion thereof above said guide slots and carrying a laterally extending hood positioned above said window, said hood projecting forwardly with respect to said window, said trim plate having a plurality of vertically spaced-apart target holes formed therein respectively adjacent to said guide slots, a plurality of different light color transmitting panes mounted in vertically spaced-apart relation on said front wall and respectively associated with said target holes, and means including a single laterally extending lamp mounted in the upper portion of said backsplasher for projecting light through said opening and thence through said window in order to illuminate said trim plate and said cooking top and for projecting light through said opening and said panes into said target holes in order simultaneously to illuminate said target holes with corresponding different colors to serve as a key to the corresponding different heating rates of said surface heating unit resulting from operation of the corresponding adjacent ones of said control pushbuttons.

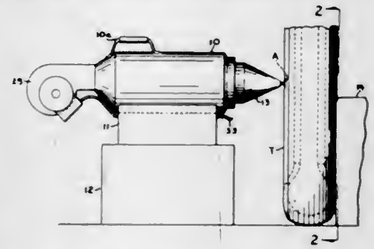
2,609,476
ILLUMINATED BACKSPLASHER FOR ELECTRIC RANGES
Harold E. Ackemann, Elgin, Ill., assignor to Hotpoint Inc., a corporation of New York
Application August 19, 1949, Serial No. 111,301
2 Claims. (Cl. 219—37)



1. In an electric range including a cooking top, a plurality of surface heating units carried by said cooking top, a source of current supply, and a hollow backsplasher provided with an upstanding and laterally extending front wall having a laterally extending opening formed therein and carried by said cooking top adjacent to the rear thereof; the combination comprising a plurality of pushbutton switches respectively corresponding to said surface heating units mounted in lateral alignment in said backsplasher, each of said switches being provided with an off pushbutton and a plurality of control pushbuttons projecting forwardly through said opening so that the outer ends of said pushbuttons terminate in a laterally extending row forwardly of said front wall, in each one of said switches said off pushbutton being operative to actuate said one switch to disconnect the corresponding one of said surface heating units and said source of current supply, in each one of said switches said control pushbuttons being selectively operative to actuate said one switch selectively to complete corresponding different heating connections between the corresponding one of said surface heating units and said source of current supply, said front wall having a laterally extending window formed in the upper portion thereof above said opening, a plurality of light transmitting color cards mounted in said back splasher in a laterally extending row above said switches and respectively associated with said switches, and means including a single laterally extending lamp mounted in the upper portion of said backsplasher above said switches and rearwardly of said window for projecting light through said window in order to illuminate said front wall and said cooking top and for projecting light through said color cards onto the respectively associated ones of said switches, in each one of said switches said control pushbuttons being formed of light transmitting material, each one of said color cards being provided with a plurality of different light color transmitting panes respectively associated with said control pushbuttons in the associated one of said switches, each one of said switches being provided with shutter means responsive to operation of any one of said control pushbuttons for effecting the transmission of light therethrough from the respectively associated one of said panes in the associated one of said color cards.

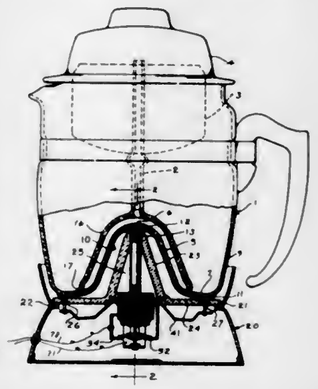
2,609,477
APPARATUS FOR VULCANIZING A REPAIR AREA OF A PNEUMATIC TIRE
Laddy F. Borda, Akron, and Sheldon W. Bile, Barberton, Ohio
Application February 18, 1948, Serial No. 9,286
10 Claims. (Cl. 219—39)

7. Apparatus for vulcanizing an area of rubber or like elastomer on a pneumatic tire or other object, comprising a casing having a central chamber and a series of concentric outer chambers extending longitudinally of the casing and substantially unrestrictedly interconnected to provide an inwardly spirally winding passage from an inlet end to said inner chamber, said casing having an air outlet from said central chamber, a source of forced air connected to said casing at the inlet end of said passage, electrical heating means in said central chamber for heating said air as it passes therethrough, a



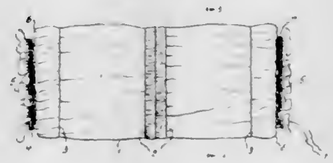
nozzle having an air outlet orifice, means for releasably attaching said nozzle to said casing in cooperation with said air outlet, said nozzle outlet orifice having a flow of predetermined area approximating the size of area to be treated, said electrical heating means including a plurality of heating elements arranged in tandem in the direction of said outlet orifice, including a thermostat mounted in said central chamber intermediate said heating means and said outlet orifice.

2,609,478
ELECTRICALLY HEATED APPLIANCE AND STAND THEREFOR
Clark A. Crawford, Corning, and Anthony Miller, Elmira, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York
Application August 18, 1947, Serial No. 769,102
8 Claims. (Cl. 219—43)



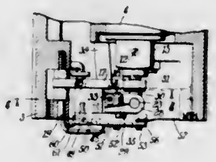
7. In a support for an electrically-heated appliance, a circular body of electrical insulating material comprising a flat portion surrounding a conical portion and having apertures in the flat portion spaced about the peripheral portion thereof and equally spaced from the center and having another aperture through the center of the conical portion, resiliently mounted electrodes occupying said first apertures and projecting above the top of the flat portion, a resiliently mounted electrode occupying the aperture through the cone portion and terminating below the top thereof, and means arranged under said circular body and operatively associated with the latter one of said electrodes for connecting the terminals of a current source to said electrodes.

2,609,479
FLEXIBLE ELECTRIC HEATER
Paul Loewe, Mexico City, Mexico
Application November 16, 1950, Serial No. 195,995
In Mexico June 27, 1950
8 Claims. (Cl. 219—46)



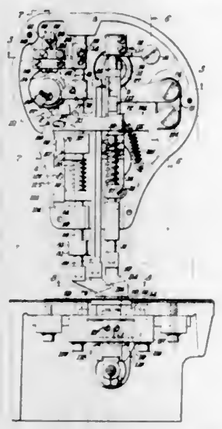
1. An electric heater comprising a flexible, thin cylindrical body split along a longitudinal line, a conductive wire within said body, the ends of said wire extending from the end of said cylinder, means on said wire ends for connection to a source of current, a cylindrical sleeve of flexible textile fabric open at at least one end thereof, lines of transverse elastic stitching around the central portion of said sleeve elastic stitching around said end of said sleeve, said cylinder being detached from and within said sleeve, the diameter of said sleeve when expanded being greater than the diameter of said cylinder, said sleeve end covering the adjacent end of said cylinder to retain the latter in position, said wire ends extending out of a sleeve end.

2,609,480
BONDING MACHINE WITH OSCILLATOR KEYING CONTROL
Ellsworth Bush Snyder, Somerville, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 6, 1949, Serial No. 85,776
8 Claims. (Cl. 219—47)



8. In a machine for seaming dielectric material, a reciprocatory electrode, a source of energy connected to said electrode, switch contacts for turning on and off said source of energy, pivoted fork means connected directly to one of said switch contacts and, through a lost motion connection, to said electrode, stop means for arresting the movement of said electrode, and means for operating said fork means for moving said one of said switch contacts to engage the other switch contact to turn on said source of energy after the electrode comes to rest against said stop means.

2,609,481
APPARATUS FOR SEALING DIELECTRIC MATERIALS
Hans Hacklander, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 24, 1949, Serial No. 117,680
7 Claims. (Cl. 219—47)



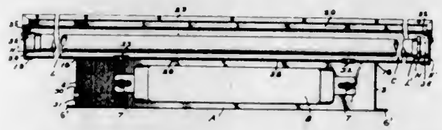
7. In a machine for sealing together plies of dielectric material by the application thereto of a radio-frequency field, in combination, means for imparting intermittent feeding movements to said material, means for holding said material stationary for a period between each of said feeding movements, electrode means for applying pressure to and removing pressure from said plies during said stationary periods, means including said electrode means for applying a radio-frequency field to and removing said radio-frequency field from said plies in the region of the pressure application during each of said stationary periods, adjustable cam means for controlling the time of application of the pressure relative to the application of the radio-frequency field, and independently adjustable cam means for controlling the time of removal of the pressure relative to the removal of the radio-frequency field in each of said stationary periods.

2,609,482
MEANS FOR WELDING THERMOPLASTIC SHEETS
Larry L. Young, New York, N. Y., assignor, by mesne assignments, to Padevco, Inc., Washington, D. C., a corporation of Delaware
Application July 23, 1946, Serial No. 685,647
9 Claims. (Cl. 219—47)



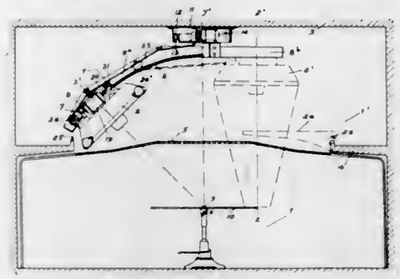
1. An electrode for high frequency dielectric heating comprising a metallic member having a flat side, a thin coating of low loss dielectric material having a low thermal conductivity on said side, and a bead of said material of arcuate cross section round the periphery of said side and integral with said coating, said coating having a thickness of less than .05 inch, and said bead a thickness at least several times that of said coating.

2,609,483
LAMP CASE FOR ELONGATED TUBULAR LAMPS
Earl T. Roberts, Baltimore, Md., assignor to The Fluorescent Electric Manufacturing Company, a corporation of Maryland
Application November 24, 1948, Serial No. 61,769
2 Claims. (Cl. 240—1)



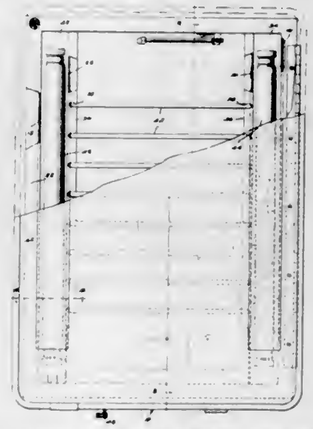
2. In a case for a fluorescent lamp, its ballast and its starter switch, the combination of two side walls, one of said side walls having means for supporting said ballast in the case, and the other of said side walls having a passage therethrough; a door removably mounted on said last-mentioned side wall, to close said passage, said door having means for supporting said switch in the case; two end walls attached to said side walls; a top wall mounted on said side walls and said end walls, and having a plurality of apertures therethrough to provide air passages; a pair of side walls projecting from said top wall; a pair of end walls removably mounted on said top wall and said projecting side walls; a translucent wall removably mounted on said projecting side walls and said removable end walls; and means for mounting the lamp on said removable end walls, in said case.

2,609,484
LIGHTING OF OPERATING ROOMS
Christian Louis Georges Bénard, Paris, France, assignor to Anciens Etablissements Barbier-Benard & Turenne, Paris, France, a joint-stock company of France
Application May 10, 1949, Serial No. 92,465
In France June 1, 1948
3 Claims. (Cl. 240—1.4)



1. Lighting equipment for operating rooms having a transparent false ceiling in spaced relationship to the ceiling proper, defining an upper chamber for accommodating the lighting apparatus which floods through said transparent false ceiling a horizontal field of operation, comprising in combination, a track located in said upper chamber, in the form of an arc of a circle prolonged by a horizontal rectilinear portion extending parallel and just above the horizontal field of operation at a distance from said horizontal field equal to the radius of the arcuate portion of the track, a carriage movable longitudinally along both portions of said track and supporting the lighting apparatus and means for remotely controlling the movement of the movable carriage along the track so that whatever be the position of the lighting apparatus, the lighting of the field of operation, at the desired point is always constant.

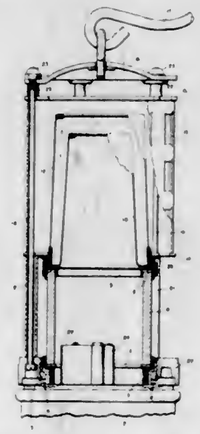
2,609,485
MIRRORED CABINET AND MEANS TO ILLUMINATE AN OBJECT IN FRONT THEREOF
Lloyd E. Holley, Harrisburg, Pa.
Application July 9, 1951, Serial No. 235,857
1 Claim. (Cl. 240—4.1)



A cabinet comprising a hollow rectangular box having an open front, partitions within the box extending in spaced parallel relation with opposite sides of the box and forming compartments adjacent opposite sides of the box which open through the open front of the box, the partitions terminating in spaced relation to the front of the box, illuminating means carried by the box within the compartments and extending beyond the edges of the partitions adjacent the front of the box, a cover hinged to the box adjacent one side of the open front thereof, said cover having windows opening therethrough which register with the open sides of the compartments when the cover is closed, a mirror mounted on the cover on the side thereof remote from the box, said mirror having light diffusing and transmitting areas which register with the windows and through which when the cover is closed light emanating from the illuminating means is diffused and transmitted to an object in front of the mirror and vertically spaced transparent shelves carried by the partitions and extending beyond the edges of the partitions adjacent the front of the box, whereby articles resting on the shelves will be illuminated by the illuminating means.

2,609,486
CHIMNEY ASSEMBLY FOR MINERS' SAFETY LAMPS
Grant Wheat and Arthur G. Davis, Marlboro, Mass., assignors to Koehler Manufacturing Company, Marlboro, Mass., a corporation of Massachusetts
Application December 20, 1948, Serial No. 66,368
1 Claim. (Cl. 240—18)

In a miner's safety lamp, a fount having an externally threaded flange set inwardly from its upper marginal edge, a lock ring in threaded engagement with said flange and having bolt sockets in its under face and bolt openings extending vertically from said sockets, said lock ring being adapted to have its under face seated upon the upper marginal edge of said fount to close said socket openings, transverse air ports formed in the bottom of said flange, an air admission ring seating on said fount inward of said flange, said ring being formed with a lateral annular shoulder, a chimney supported on said shoulder, a gauze cone supported on the top of said chimney having an outwardly flanged bottom portion, a perforated ring supported upon said cone shoulder, the perforations in said ring being vertically aligned with the bolt openings in said lock ring, a hood supported on said ring outwardly of said perforations, a top ring on said hood, and a dome

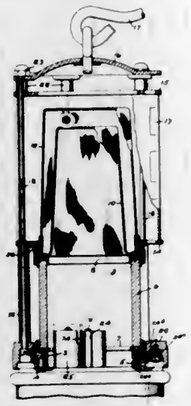


formed with perforations aligned with the perforations in said first ring and said lock ring, said dome being depressed adjacent its perforations to form nut shrouds, bolts having their heads seated in the bolt sockets in said lock ring and extending through said rings and dome, said bolts having associated nuts seated in the shrouds in said dome and adjusted by operation of their heads in said lock ring, and tubular supports of greater diameter than said bolts enclosing exposed portions of the latter, said tubular supports being supported at their lower ends upon said lock ring and having their upper ends in supporting engagement with said perforated ring.

2,609,487
MAGNETIC LOCK FOR MINERS' SAFETY LAMPS
Grant Wheat and Arthur G. Davis, Marlboro, Mass., assignors to Koehler Manufacturing Company, Marlboro, Mass., a corporation of Massachusetts
Application May 16, 1951, Serial No. 226,634
1 Claim. (Cl. 240—19)

In a miner's safety lamp, a fount having an externally threaded flange set inwardly from its upper marginal edge and providing an upwardly facing annular shoulder, an aperture formed in said threaded flange, a lock ring in threaded engagement with said flange and having bolt sockets in its under face and bolt openings extending vertically from said sockets, an elongated arcuate recess formed in the bottom face of the lock ring between certain of said bolt openings, said recess being spaced inwardly from the outer face of the lock ring, an opening extending through the inner wall of the recess, a locking member including diverging arms and formed of material subject to magnetic attraction arranged in said recess, said locking member being pivotally mounted medially in said recess and one arm of

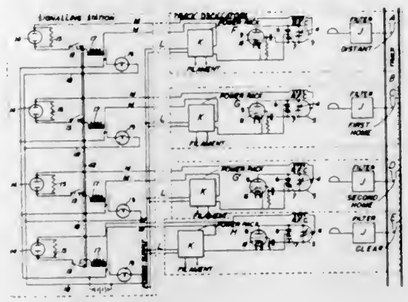
said locking member terminating in an inwardly extending hook, a spring between one side of the other arm of the locking member and the adjacent wall of the recess, said spring normally urging said hook through the aperture in the side wall of the recess and into the aperture of the flange, magnetizable studs extending downwardly through the upper wall of the locking ring at opposite sides of each of said arms for association with a U-magnet, said studs being normally spaced from said arms and extending into the path of movement of the same, whereby said locking member may be swung on its pivot against said magnetizable studs to move said hook from locked to unlocked position, said lock ring being adapted to have its under face seated upon the shoulder of said fount to close said socket openings and said recess, transverse air ports formed in the bottom of said flange, an air induction ring seating on said fount inwardly of the flange, said ring being formed with lateral

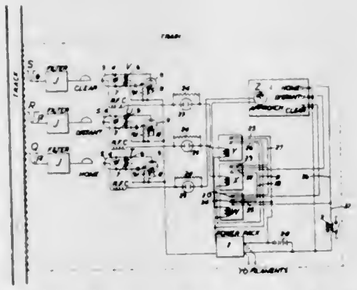


annular shoulders, a chimney supported on the shoulders, a gauze cone supported on the top of the chimney having an outwardly flanged bottom, a perforated ring supported upon said cone shoulder, the perforations in said ring being vertically aligned with the bolt openings in said lock ring, a hood supported on said ring outwardly of said perforations, a top ring on said hood, and a dome formed with perforations aligned with the perforations in said first ring and said lock ring, said dome being depressed adjacent its perforations to form nut shrouds, bolts having their heads seated in the bolt sockets in said lock ring and extending through said rings and dome, said bolts having associated nuts seated in the shrouds in said dome and adjusted by operation of their heads in said lock ring, and tubular supports of greater diameter than said bolts enclosing exposed portions of the latter, said tubular supports being supported at their lower ends upon said lock ring and having their upper ends in supporting engagement with said perforated ring.

2,609,488
MEANS FOR SIGNALING ON RAILWAYS
Kenneth Alfred Fletcher, Seven Kings, England, assignor to J. Burns Limited, Chadwell Heath, England, a British company
Application September 4, 1946, Serial No. 694,756
In Great Britain September 12, 1945
11 Claims. (Cl. 246—30)

1. Apparatus for signalling on railways comprising on the train a series of oscillators capable of radiating and receiving separate unmodulated electromagnetic waves of different radio frequencies, an antenna consisting of a dipole having its axis arranged transversely to the direction of motion of the train for each of said oscillators, means for energising said oscillators, signalling devices on the train, relays connected in the anode circuits of said oscillators and controlling the circuits of said signalling devices; and on the track, an oscillator at each signal point corresponding to one of the oscillators on the train, the corresponding train and track oscillators operating at the same frequencies, a dipole antenna having its axis arranged transversely to the direction of the track for each of



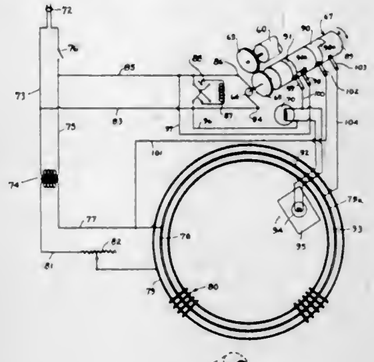


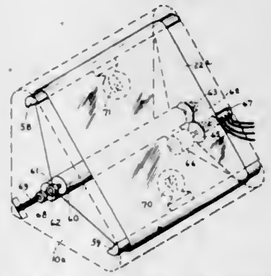
said track oscillators, means controlled from a signal station for energising said track oscillators, first signalling devices at said signalling station adapted to be actuated by the normal currents in the energising circuits of said track oscillators, second signalling devices at said signalling station adapted to be actuated by greater currents than such normal currents, which greater currents result from the proximity of an energised train-carried dipole to a track dipole, and electrical connections between the respective track oscillators and the corresponding first and second signalling devices at the signalling station.

2,609,489
VISUAL INDICATOR AND CONTROL FOR MINIATURE TRAINS
Paul Roman, Tuckahoe, N. Y., assignor to Ruth M. Roman, Scarsdale, N. Y.
Application June 14, 1945, Serial No. 599,371
14 Claims. (Cl. 246—122)

1. In a device for controlling the operation of miniature vehicles, a metallic track having outer rails and having a main third rail portion and a second third rail portion insulated from said main portion, a station adjacent to said insulated portion and having a light therein connected in a circuit with a source of current, means for constantly supplying current from said source to said track with the exception of said insulated portion, a visual indicator supported remotely from said track and having a light therein connected in multiple with said

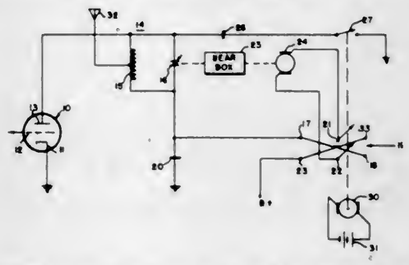
first light, said indicator including a stationary map and a movable opaque curtain supported beneath said map and having transparent areas therein some of which register with the positions of given cities on the map, dual switching means including one set in said first circuit and a second set in a circuit between said source and said second third rail portion, said switching means being adapted first to extin-





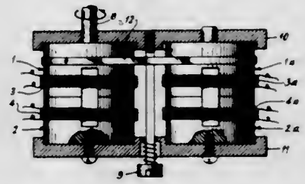
guish said lights and to supply current to said insulated portion and adapted secondly to deprive said insulated portion of current and to supply current to said lights, and motor means for moving said curtain and for causing said switching means to perform said switching operations sequentially with predetermined time delays between said operations.

2,609,490
AUTOMATIC TUNING CONTROL
John M. Hollywood, Washington, D. C., assignor to the United States of America as represented by the Secretary of War
Application January 7, 1946, Serial No. 639,652
2 Claims. (Cl. 250—17)



1. The combination, a tunable tank circuit, a signal source having a frequency in the vicinity of the resonant frequency of said tank circuit, means for applying said signal source to said tank circuit, a small fixed reactance, a first switch means connected in series with said reactance, means connecting said serially connected reactance and first switch means in circuit with said tank circuit, means for periodically opening and closing said first switch means, a reversible direct current motor mechanically coupled to said tank circuit to effect a tuning of the resonant frequency thereof in either direction, means coupled to said tank circuit for deriving unidirectional electrical energy having a magnitude which is a function of the frequency differences between said frequency of said signal source and the resonant frequency of said tank circuit, and a second switch means operated in synchronism with the opening and closing of said first switch means for applying said energy directly to said motor in one direction during the intervals said first switch means are open and in the other direction during the intervals said first switch means are closed.

2,609,491
RESONANT CIRCUITS
Karl F. Kirchner, Bloomfield, N. J.
Application January 21, 1948, Serial No. 3,467
1 Claim. (Cl. 250—20)

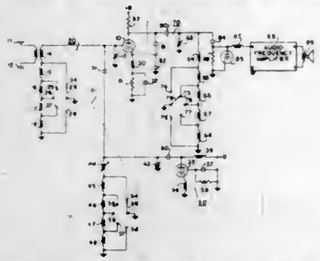


A carrier wave receiver comprising a frequency mixing stage, a carrier wave circuit, and a local oscillator circuit connected to said stage, each of said circuits comprising two windings, a plurality of magnetic core members, each winding being on a separate core member, the core members each having close-spaced side-by-side coplanar semicircular pole faces, the pole faces of one core member of each circuit being substantially concentric with and overlaid with the pole faces of its complementary core member, the core members being relatively rotatable on an axis perpendicular to and through the substantially common centers of said pole faces to selectively linearly vary the mutual inductance between windings with a constant predetermined magnetic reluctance, and one core member of one of said circuits being mechanically connected with one core member of the other of said circuits.

2,609,492
TUNABLE SUPERHETERODYNE SUPERREGENERATIVE RECEIVER
Bernard D. Loughlin, Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application March 13, 1948, Serial No. 14,674
7 Claims. (Cl. 250—20)

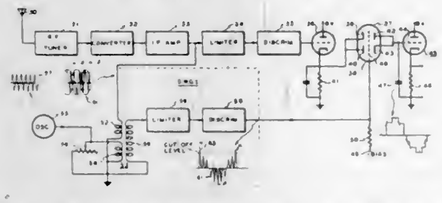
4. A superheterodyne superregenerative receiver for selectively translating carrier-wave signals received over any one of a series of preassigned frequency channels distributed within a plurality of frequency bands comprising: a superregenerative intermediate-frequency amplifier having an input selector tunable to each of said plurality of frequency bands for applying to said amplifier wave signals received within any of said bands; means, including a tunable oscillation generator coupled to said intermediate-frequency amplifier, for supplying to said amplifier a heterodyning signal for use in converting carrier-wave signals included within any selected one of said bands to a predetermined band of intermediate-frequency signals; a band-selecting tuning adjustment for said generator variable in

a plurality of discrete steps corresponding in number to said plurality of bands for selecting any desired one of said bands for conversion; a regenerative oscillatory circuit included in said intermediate-frequency amplifier and having a superregenerative selectivity characteristic with an acceptance band small relative to said intermediate-frequency band for causing said inter-



mediate-frequency amplifier selectively to amplify intermediate-frequency signals contained within said intermediate-frequency band; and a signal-selecting tuning adjustment for said regenerative oscillatory circuit for displacing said acceptance band resulting from said superregenerative selectivity characteristic throughout said band of intermediate frequencies effectively to select any desired one of said intermediate-frequency signals for amplification.

2,609,493
FREQUENCY MODULATION RECEIVER FOR OVERLAPPING SIGNALS
Raymond M. Wilmotte, Washington, D. C., assignor to Padevco, Inc., Washington, D. C., a corporation of Delaware
Application January 24, 1950, Serial No. 140,242
11 Claims. (Cl. 250—20)



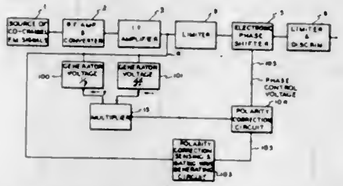
1. In a frequency modulation receiver wherein two overlapping frequency modulated waves, E_1 and E_2 having an amplitude ratio

$$\frac{E_2}{E_1}=a<1$$

and an instantaneous frequency difference q, are received, and wherein it is desired to obtain modulation of the stronger of said waves to the substantial exclusion of the weaker, means for generating pulse gating voltages substantially at times when $qt=\pi\pm$ arc cos a, means responsive to said gating voltages for deriving from said overlapping frequency modulated waves energy pulses corresponding in amplitude with said modulation, and means responsive to said energy pulses for constructing said modulation.

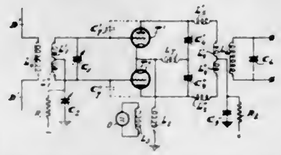
2,609,494
FREQUENCY MODULATION SYSTEM FOR RECEIVING ONE OF TWO OVERLAPPING WAVES
Raymond M. Wilmotte, Washington, D. C., assignor to Padevco, Inc., Washington, D. C., a corporation of Delaware
Application January 24, 1950, Serial No. 140,243
7 Claims. (Cl. 250—20)

7. In combination, means for receiving two overlapping frequency modulated waves, means for developing control signals in response to said two overlapping frequency modulated waves, and means responsive to said control signals for



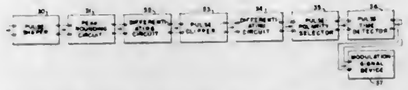
changing the phase of the sum of said two overlapping frequency modulated waves continuously to the phase of the stronger one of said two overlapping frequency modulated waves.

2,609,495
PUSH-PULL MIXING CIRCUIT ARRANGEMENT
Adelbert van Weel, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application September 10, 1946, Serial No. 695,888
In the Netherlands May 13, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires May 13, 1963
7 Claims. (Cl. 250—20)



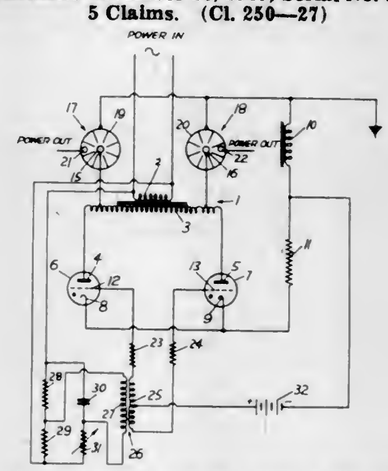
1. An arrangement for mixing an incoming wave with local oscillations to produce an intermediate frequency signal, comprising a pair of electron discharge tubes each having a cathode electrode, a grid electrode and an anode, a first resonant circuit arranged to apply the incoming wave in push-pull relation to one set of corresponding electrodes in said tubes, an output system including a second resonant circuit coupled to the anodes of said tubes to derive in push-pull relation the intermediate frequency signal therefrom, a third and series resonant circuit coupled between the electrical midpoint of said first circuit and the other set of corresponding electrodes to apply local oscillations in cophasal relation to the grid electrodes of said tubes, and means to introduce positive backcoupling between the output system of said tubes and said third resonant circuit.

2,609,496
SIGNAL TRANSLATING ARRANGEMENT
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application March 18, 1947, Serial No. 735,286
5 Claims. (Cl. 250—20)



5. A signal-translating arrangement for applied signal pulses having leading and trailing edges, at least one type of said edges being time-modulated in accordance with a modulation signal, comprising: means effectively responsive to said pulses for deriving from each thereof a pair of pulses, each pulse of said pair having a pulse characteristic which varies with the time of occurence of an indivdual type of said edges of said each applied pulse; means responsive to each of said pairs of derived pulses for developing therefrom at least one pulse having a characteristic which varies with the average time of occurrence of said edges of said each applied pulse; and means responsive to said characteristic of said developed pulses for deriving a resultant modulation signal which is dependent on the time modulation of said applied pulses, whereby said arrangement is substantially less responsive to noise modulation which tends to displace said one type and said other type of edges of said pulses in opposite directions.

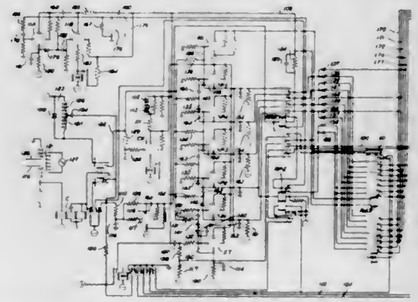
2,609,497
ELECTRON DISCHARGE DEVICE
John W. Dawson, Palo Alto, Calif., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application November 10, 1949, Serial No. 126,666
5 Claims. (Cl. 250—27)



1. An electron discharge circuit comprising a pair of space discharge devices, each of said space discharge devices having at least a pair of electrodes consisting of an anode and a cathode, a first of said electrodes of one tube being connected to a similar first electrode of the other tube, a source of alternating current connected between a second electrode of one tube and a similar second electrode of the other tube, switching means for alternately connecting a second of said electrodes through an inductance to said first electrodes, and means for reducing the inverse peak voltage across said devices comprising auxiliary sources of alternating current connected between said second electrodes and said switching means.

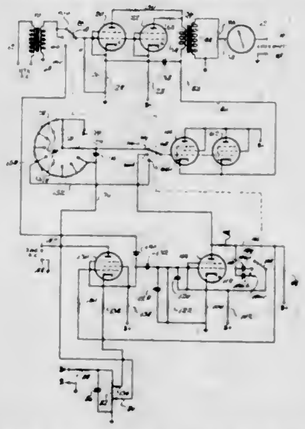
2,609,498
PULSE COUNTING AND REGISTRATION SYSTEM
Albert E. Bachelet, New York, N. Y., and Frank K. Low, Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 7, 1950, Serial No. 137,452
4 Claims. (Cl. 250—27)

1. In a signaling system, means for generating signal impulses, a chain of gas-filled tubes for counting said impulses, said chain including a start tube and a plurality of counting tubes, means for applying said impulses simultaneously to all of said counting tubes, means for causing conduction in said start tube prior to the generation of a series of impulses to be counted, gating means connected in circuit with each counting tube and being controlled by the next preceding tube of said chain, the gating means associated with only the first counting tube being controlled also by the last counting tube of said chain, each of said gating means being con-



trolled by a conducting tube to permit an impulse to cause conduction in the counting tube associated with said means and next succeeding said conducting tube, each of said gating means except said means associated with the first counting tube being controlled by a non-conducting tube to prevent an impulse from causing conduction in the counting tube next succeeding said non-conducting tube, and additional gating means to prevent an impulse from causing conduction in the first counting tube whenever the start tube and the last counting tube are both non-conducting.

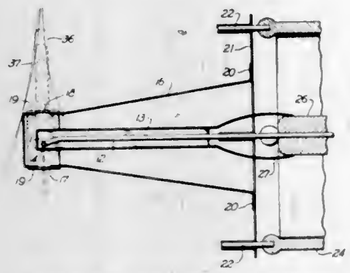
2,609,499
MUSCLE STIMULATOR
Warren E. Gilson, Madison, Wis., assignor to The Burdick Corporation, Milton, Wis., a corporation of Delaware
Application September 27, 1950, Serial No. 186,997
8 Claims. (Cl. 250—27)



1. A muscle stimulator, comprising an impulse generator having output conductors for supplying muscle stimulating impulses and having a terminal, the potential of which determines the magnitude of the impulses; a saw-toothed wave

modulation generator coupled to the terminal cyclically to vary the magnitude of the impulses, the modulation generator including a gaseous discharge device having an anode, cathode and control grid, a circuit including a capacitor connected between the anode and the cathode, a direct current potential source, and a circuit including a charging impedance connecting the source with the capacitor; a discharge tube having an anode, cathode and control grid; a circuit connecting the latter anode with the latter cathode including a supply of cyclically varying voltage and a load impedance coupled with the grid of the gaseous discharge device; a circuit connecting the grid of the tube with the anode of the gaseous discharge device; and a direct current potential source biasing the cathode of the discharge tube to a predetermined positive voltage value with respect to the cathode of the gaseous discharge device, so that the discharge tube transmits an impulse from the supply of cyclically varying voltage to the grid of the gaseous discharge device to trigger the latter when the anode voltage of the gaseous device approaches the predetermined value.

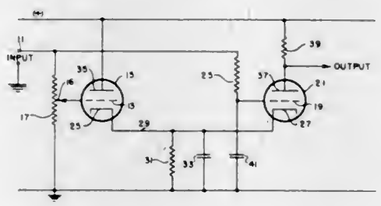
2,609,500
INJECTOR MECHANISM
Marvin D. Martin, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application October 11, 1950, Serial No. 189,647
8 Claims. (Cl. 250—27)



1. Particle accelerator injector mechanism comprising an electron emissive filament, a shield about said filament electrically connected to said filament and having an aperture therein for the passage of electrons therethrough, and an accelerating electrode adapted to be maintained at a positive potential with respect to said shield and filament and encompassing said shield and filament, said accelerating electrode having a first aperture therein aligned with the aperture in said shield and a second aperture situated on the opposite side of said shield and filament and aligned with said first aperture.

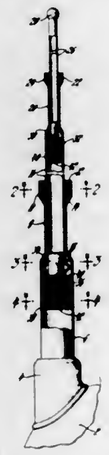
2,609,501
PULSE WIDTH DISCRIMINATOR CIRCUIT
George B. Guthrie, Jr., Pasadena, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application January 3, 1946, Serial No. 638,892
5 Claims. (Cl. 250—27)

1. In a pulse discriminator circuit, a first vacuum tube having at least a cathode, a control grid, and plate, means for applying a pulse signal to the control grid of said first tube from a source external to said circuit, a potentiometer connected between said means and ground, the arm of said potentiometer being connected to the grid of said first tube, a first resistive means connecting the cathode of said first tube to ground, a first capacitive means connecting said cathode of said first tube to ground, means connecting the plate of said first tube to a source of positive potential, a second vacuum tube having at least a cathode, control grid, and plate, means



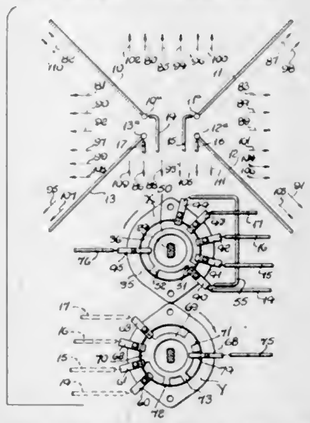
connecting said cathode of said first tube to the cathode of said second tube, a second resistive means connecting the source of the input pulses to the grid of said second tube, a second capacitive means connecting said grid of said second tube to ground, and a third resistive means connecting the plate of said second tube to a source of positive potential.

2,609,502
ANTENNA CONSTRUCTION
Donald P. Worden, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 15, 1949, Serial No. 76,614
3 Claims. (Cl. 250—33)



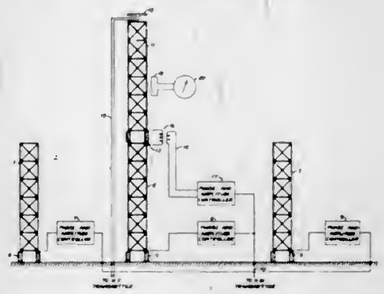
3. An extensible radio antenna comprising an outer metal sleeve having mounting means at one end, and a portion of reduced cross section, an inner metal sleeve slidably mounted within the outer sleeve and having a portion fitting snugly within the reduced portion of the outer sleeve, means for preventing longitudinal separation of said members, and a plurality of stiff metal brush members mechanically and electrically connected to the inner end of said inner sleeve and diametrally disposed within said outer sleeve and bearing against the inner surface of said outer sleeve substantially completely therearound, to provide and maintain effective electrical contact between said sleeves.

2,609,503
SELECTIVE DIRECTION TELEVISION AND HIGH-FREQUENCY ANTENNA SYSTEM
Marvin P. Middlemark, Woodside, N. Y.
Application April 11, 1952, Serial No. 281,737
2 Claims. (Cl. 250—33.51)



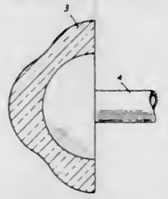
2. For use with a television antenna system having dipole rods extending in different directions, each of said rods having an inner terminal end, a switch for selecting combinations of said dipole rods for connection to a television receiver, said switch comprising stationary terminal members and rotatable rotor contacts for effecting electrical connection therewith, means for rotating said rotor contacts so as to provide a plurality of rest positions thereof and so that said rotor contacts effect electrical connection with said terminal members at predetermined rest positions, the outer edges of said rotor contacts effecting electrical connection with all of said terminals in offset relation thereto, each of said rotor contacts being a whole multiple of 15° in width, said terminal members all being 15° in width, and said rest positions being equally spaced 15° apart.

2,609,504
ANTENNA SYSTEM
Raymond M. Wilmotte, New York, N. Y., assignor to Padevco, Inc., Washington, D. C., a corporation of Delaware
Application December 12, 1946, Serial No. 715,853
15 Claims. (Cl. 250—33.53)



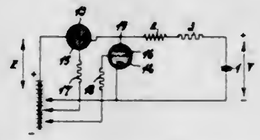
1. A radio antenna array comprising a plurality of vertical radiators, a vertical conductive structure mounted on one of said radiators and insulated therefrom, a very high frequency antenna mounted on said vertical conductive structure, means for energizing said very high frequency antenna, means for applying relatively low frequency voltages to each of said vertical radiators and to said conductive structure, and means for adjusting the relative phases and amplitudes of the voltages applied to said vertical radiators and to said conductive structure so as to obtain a desired radiation pattern, and so as to reduce to substantially zero current flow in said conductive structure at said low frequency.

2,609,505
AERIAL SYSTEM
Alfred Brian Pippard, Cambridge, England
Application July 21, 1947, Serial No. 762,221
In Great Britain June 17, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires June 17, 1964
25 Claims. (Cl. 250—33.65)



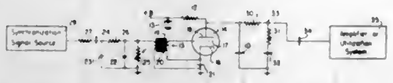
1. An aerial system for collimating a radio beam and comprising a spherical reflector, a small antenna radiating element for radiating energy toward the inside surface of said reflector, and a dielectric block between said reflector and said element and contoured so that the thickness of said block is greater between said element and the peripheral zone of said reflector than between said element and a zone intermediate between the centre and the periphery of said reflector, the largest cross-section of the dielectric block as measured in planes perpendicular to the axis of the reflector being less than half of the cross-section of the reflector.

2,609,506
GASEOUS TUBE OSCILLATOR
Gerrit Jan Siezen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 3, 1948, Serial No. 42,264
In the Netherlands August 14, 1947
7 Claims. (Cl. 250—36)



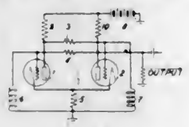
1. An alternating voltage generator comprising a source of direct voltage of predetermined magnitude, first and second gaseous discharge devices, an oscillatory network constituted by an inductive element connected in series with a capacitance, said network being connected through said first device to said source, and means connecting said second device between the end of said capacitance remote from said element and a point in said element, said first device having a value of ignition voltage which is less than said predetermined magnitude and having a prescribed value of operating voltage, said second device having a value of ignition voltage relative to that of said first device and a value of operating voltage relative to that of said first device at which said devices are automatically rendered alternately conductive.

2,609,507
VERTICAL DEFLECTION SYSTEM
Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application May 11, 1949, Serial No. 92,701
9 Claims. (Cl. 250—36)



1. A generator for producing a sawtooth voltage wave comprising a condenser, means connecting said condenser to a source of potential for charging said condenser to such a high voltage that the charging rate decreases with time, a blocking oscillator including an electron discharge valve having plate, cathode and grid electrodes and a transformer having first and second windings, means including said transformer and a time constant network connected to said grid electrode of said valve for controlling the frequency of said blocking oscillator, said first and second windings of said transformer being connected respectively to said grid and said cathode electrodes of said valve, said plate electrode of said valve being coupled to said condenser for discharging said condenser when said valve conducts, and an integrating circuit connected across said condenser including resistance means and a second condenser across which a wave of parabolic shape is developed, said resistance means including an intermediate tap so positioned that said sawtooth wave and said parabolic wave are combined thereby to provide a sawtooth wave having substantially linear trace portions.

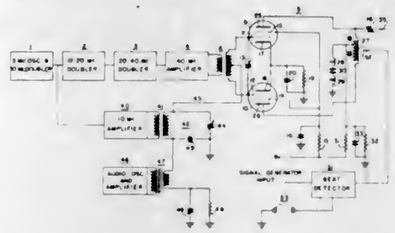
2,609,508
WAVE GENERATING CIRCUITS
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application April 24, 1943, Serial No. 484,324. Divided and this application June 9, 1949, Serial No. 97,954
8 Claims. (Cl. 250—36)



1. A multivibrator circuit having two degrees of electrical stability comprising a pair of electrode structures each having an anode, a cathode and a grid, an inductance coil connecting the grid of each structure to its cathode, and a resistor connecting the anode of each electrode structure to the grid of the other structure.

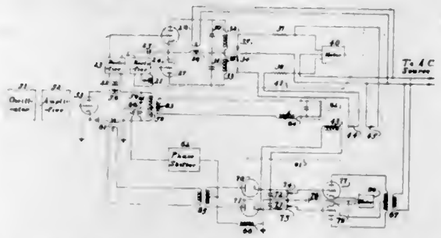
2,609,509
ELECTRICAL TESTING APPARATUS
Bertram C. Hill, Washington, D. C., and Robert R. Stone, United States Navy
Application June 13, 1945, Serial No. 599,290
9 Claims. (Cl. 250—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In an electric testing apparatus, a source of high frequency energy, a harmonic amplifier circuit energized by said high frequency energy for producing an output rich in harmonics of said high frequency, said amplifier including a pair of amplifier tubes connected in push-pull



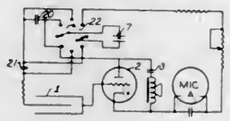
relation and an unbalanced load in the plate circuit of said tubes, and output circuit means operatively associated with said load.

2,609,510
ELECTRONIC HEATING CONTROL SYSTEM
Raymond M. Wilmotte, Washington, D. C., assignor to Padevco, Inc., Washington, D. C., a corporation of Delaware
Application August 6, 1945, Serial No. 609,245
16 Claims. (Cl. 250—36)



1. Apparatus for heating material comprising a high frequency generator including an oscillator and a power amplifier, said power amplifier having an electron tube provided with anode and cathode electrodes, an antiresonant tank circuit connected between the anode and cathode electrodes, a variable load circuit coupled to said antiresonant circuit, means for deriving a voltage proportional to the circulating current of said tank circuit and a voltage proportional to the anode to cathode current, means for comparing the phases of said voltages and varying the reactance of the load circuit in response to the relative phases of said voltages so as to reduce changes in the relative phases of said voltages, and means for controlling the coupling between the load circuit and the antiresonant circuit in response to the relative amplitudes of said voltages so as to reduce relative changes in the amplitudes of said voltages.

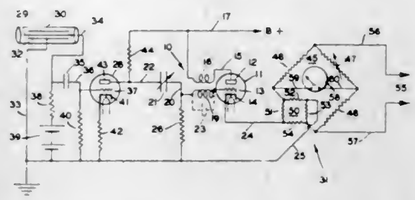
2,609,511
SENSITIVE PULSE AMPLIFIER COUNTER
Edward F. Wright, Jr., Kingston, Tenn.
Application October 25, 1949, Serial No. 123,371
3 Claims. (Cl. 250—83.6)



1. A radioactivity detector and measuring device comprising a Geiger-Mueller tube having a cathode electrode and an anode electrode, a

cold cathode glow tube having a cathode, an anode and a control electrode, electrical connection means between an electrode of the Geiger-Mueller tube and the glow tube control electrode, a network, including at least a first capacitor, electrically connected in shunt with the glow tube cathode-anode interelectrode space, a single potential source for energizing both the Geiger-Mueller tube and the glow tube and having a magnitude lower than the operating working voltage of either of said tubes, at least a second capacitor having one terminal thereof electrically coupled to the other electrode of the Geiger-Mueller tube, an integrating current indicator having one terminal connected to the glow tube cathode and switch means for selectively first connecting the said second capacitor in shunt with the potential source and then connecting the second capacitor, second terminal, the potential source and the indicator free terminal in series whereby the summation of the capacitor potential plus the battery potential is of greater magnitude than the operating working voltage of the Geiger-Mueller and glow tubes.

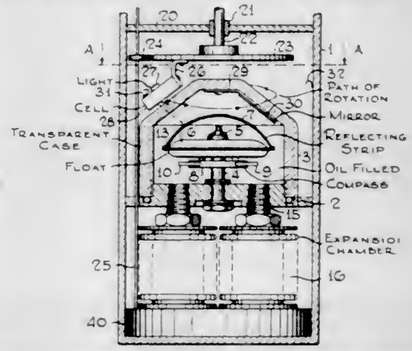
2,609,512
FREQUENCY METER
Harry Conviser, Ardsley, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application October 30, 1946, Serial No. 706,743
15 Claims. (Cl. 250—83.6)



1. The method of measuring the average frequency of random electrical impulses derived from radioactive particle bombardment comprising the steps of blocking a freely running oscillator by said electrical impulses and thus deriving the average frequency of said impulses by applying the constant-amplitude wave train having interruptions of constant duration resulting from the blocking of the oscillator to an integrating device for integrating said wave train.

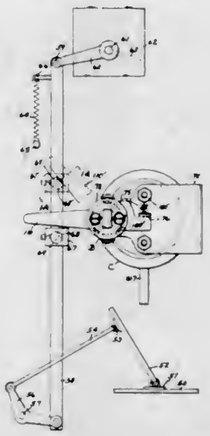
2,609,513
REMOTE READING COMPASS UNIT
Frank G. Boucher and Alexander B. Hildebrandt, Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware
Application October 27, 1949, Serial No. 123,892
7 Claims. (Cl. 250—224)

5. A device for remotely indicating orientation comprising a non-magnetic case, a universal pivot supported by said case, a compass device pivotally supported on said universal pivot, an arcuate reflecting strip attached to said compass device and disposed in a vertical plane passing through the pivot, a rotatable support held by said case, a light source held by said rotatable support in a manner adapting it to revolve about said compass, a light-sensitive cell held by said rotatable support in fixed relation to said light source and so positioned as to receive reflected light from said reflecting strip during some portion of a rotation of said rotatable support, means for periodically rotating said rotatable support, and reference means mounted on said case in cooperative relation with a selected point



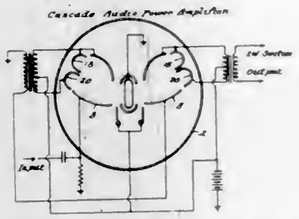
on said rotatable support whereby a reference point on said case will be related to a reference point on the rotatable support during the rotation of said rotatable support.

2,609,514
ENGINE STARTER CONTROL APPARATUS
Paul L. Schneider, William H. Taylor, and Harold J. Cromwell, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 28, 1951, Serial No. 223,492
8 Claims. (Cl. 290—38)



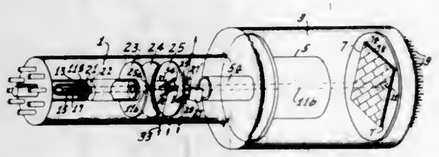
1. In an automatic controller for internal combustion engine starters, the combination comprising, a fuel controller; a transmission control device; a current source; a starting motor; a switch having a fixed contact and a movable contact engageable with the fixed contact to effect connection of the source and the starting motor; a switch actuator; a spring normally locating the actuator in switch opening position; normally disconnected means for mechanically connecting the fuel controller with the switch actuator to effect switch closing movement of the actuator by the fuel controller when operated to admit fuel; means responsive to movement of the device to a position for effecting disconnection of the engine from the traction wheels for establishing said mechanical connection; and means responsive to self-operation of the engine for disrupting the said connection whereby the switch is opened by the spring.

2,609,515
BEAM AMPLIFIER TUBE
Norman Z. Ballantyne, Lewiston, Idaho
Application February 15, 1950, Serial No. 144,223
10 Claims. (Cl. 313—72)



4. An electron discharge device of the amplifying type comprising a cathode, beam forming members disposed at either side of said cathode, accelerating members disposed beyond said beam forming members from said cathode, curved deflection control plates with one positioned on either side of said cathode beyond said accelerating members and curved into the electron beam paths as projected from said accelerating members, a curved target anode positioned near the extreme end of said curved control plate on either side of said cathode, and a curved target plate positioned on either side of said cathode with the centers of radius of said curve in said target anode and said target plate disposed towards said cathode.

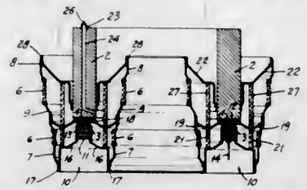
2,609,516
ART OF FORMING AND UTILIZING ELECTRON-BEAMS OF NONCIRCULAR CROSS SECTION
Leslie E. Flory, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1950, Serial No. 193,217
7 Claims. (Cl. 313—82)



1. An electron-discharge device comprising a source of electrons, an electron-lens including a plurality of metal diaphragms containing aligned apertures of duplicate shape for deriving from said source a beam of electrons of a cross-sectional shape corresponding to the shape of said apertures, and electrode means supported upon one of said diaphragms adjacent to the aperture thereof for altering said cross-sectional shape of said beam.

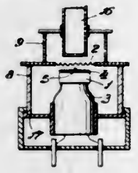
2,609,517
ULTRAHIGH FREQUENCY ELECTRON TUBE
Jack A. McCullough, Millbrae, Calif., assignor to Eitel-McCullough, Inc., San Bruno, Calif., a corporation of California
Application May 31, 1950, Serial No. 165,256
13 Claims. (Cl. 313—257)

1. An electron tube comprising an envelope having a circular side wall, a metallic terminal ring on the side wall, an electrode fixed adjacent an end of the envelope, an electrode extending transversely of the envelope axis and slidably engaging the terminal ring, and a spacer ring of insulating material within the envelope between



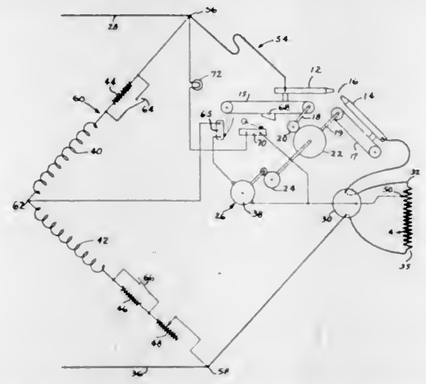
the electrodes to establish the spacing of the slidable electrode from said fixed electrode.

2,609,518
ELECTRON DISCHARGE TUBE HAVING A DISK-SHAPED CATHODE
Carel Peter Klöpping, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application October 20, 1948, Serial No. 55,445
In the Netherlands November 15, 1947
1 Claim. (Cl. 313—270)



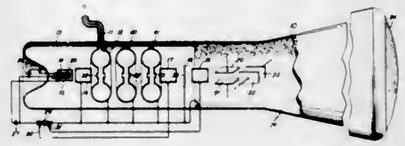
An electron discharge tube comprising a disc-shaped cathode, a second electrode in spaced relationship to said cathode, an emissive layer of given thickness positioned on a portion of said cathode facing said second electrode, and a bare conductor member positioned on a second portion of said cathode surface free of emitting material and extending diametrically thereacross, said conductor and having a thickness greater than said given thickness and less than the spacing between said cathode and said second electrode.

2,609,519
ARC LAMP OR THE LIKE
Richard C. Beitz, Amherst, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 21, 1950, Serial No. 175,058
6 Claims. (Cl. 314—71)



1. In an apparatus of the character described, the combination of a pair of electrodes for establishing and sustaining an arc therebetween, a ballast resistor having one end thereof connected to one of said electrodes, a pair of main conductors, respectively, so as to provide a sectrodes and to the opposite end of said ballast resistor, respectively, so as to place same in series relation in a primary circuit, gripping and guiding means constructed and arranged so as to move at least one of said electrodes toward and away from the other when actuated, driving means including a rotatable electric motor for actuating said gripping and guiding means, said motor having a pair of field coils and an armature with a lead from each connected together at a common point, said field coils being arranged in said motor in opposed relation to each other so as to tend to rotate said motor in opposite directions when energized, means for connecting the opposite leads of said field coils to said main conductors connected to the other of said elecondary circuit therebetween, and means for connecting the other lead of said armature to said primary circuit at a point adjacent the connection of said one electrode to said ballast resistor.

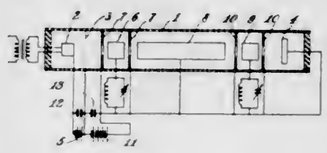
2,609,520
CATHODE-RAY TUBE
John R. Pierce, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 11, 1947, Serial No. 753,982
7 Claims. (Cl. 315—6)



1. A cathode ray device comprising an evacuated envelope enclosing the following elements: means for generating a beam of electrons of non-parallel rays, an apertured member the aperture of which lies in the path of said beam, a cavity resonator between said apertured member and said beam generating means, a cylindrical focussing member between said cavity resonator and said apertured member, means coupled to said resonator for applying varying signals thereto to vary correspondingly that component of velocity of beam electrons which is parallel to the beam axis to change the condition of focus of the rays of the beam and thereby vary the beam density at said aperture, and a fluorescent target on the side of said apertured member remote from said cavity resonator for intercepting the electrons which pass through said aperture.

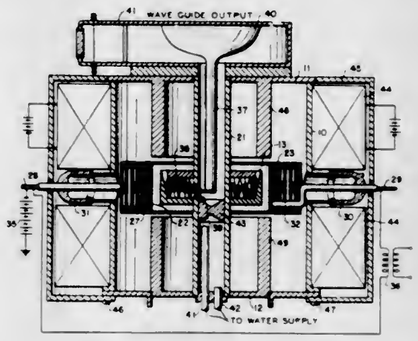
2,609,521
VELOCITY MODULATED ELECTRON DEVICE
Frederik Coeterier, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 16, 1946, Serial No. 684,078
In the Netherlands April 6, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 6, 1963
7 Claims. (Cl. 315—12)

1. An electron discharge device system comprising, an electron source of a beam of primary electrons having a given velocity, an electron permeable control electrode system in spaced relation with said electron source for producing cyclic variations in the velocity of the electrons of a composite electron beam to thereby produce intensity variations of the beam at a point spaced from said control electrode system, an electron permeable secondary emissive source of electrons having a velocity different from the electrons of said primary electron source interposed between said source of primary electrons



and said control electrode system to mix said second group of electrons with said first group of electrons to form a composite electron beam directed towards said control electrode system, and energy collecting means in the path of the electrons of the said composite beam and arranged at said spaced point.

2,609,522
MAGNETRON
Joseph F. Hull, Neptune, N. J.
Application April 3, 1950, Serial No. 153,682
5 Claims. (Cl. 315—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

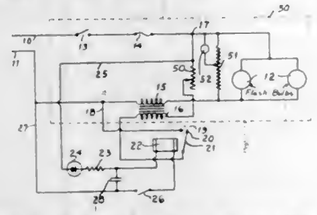


1. A magnetron comprising a cylindrical housing having top and bottom end plates, an anode, means extending between said top and bottom plates and coaxial with said housing for supporting said anode, said anode comprising axially aligned upper and lower annular discs spaced from each other and having oppositely positioned sets of bars extending toward each other from the outer periphery of said annular discs, the inner periphery of said discs being mounted on said supporting means to centrally position said anode coaxially within said housing, and a cathode girdling said anode and within said housing.

2,609,523
PHOTOFLASH SYSTEM
Robert A. Stein and Lee S. Wasserman, Dayton, Ohio, assignors to Globe Industries, Inc., Dayton, Ohio, a corporation of Ohio
Application June 21, 1951, Serial No. 233,427
12 Claims. (Cl. 315—254)

1. In an illuminating apparatus for photographic purposes employing high luminosity

incandescent filament lamps, the combination of a receptacle for said lamp, a transformer having two windings, one winding being connected in series with said receptacle and serving to reduce the voltage impressed upon said receptacle to substantially below the rated voltage of the lamp,



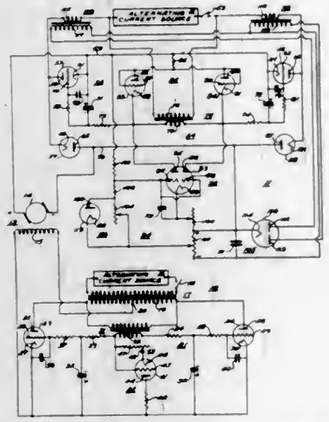
the second winding being normally open circuited, and electric control means operable in response to the closing of its circuit to close the circuit of the second winding and to open the same after the lapse of a predetermined small fraction of a second.

2,609,524

ELECTRIC CONTROL SYSTEM

Claude E. Greene, Sidney, Ohio, assignor to The Monarch Machine Tool Company, a corporation of Ohio

Application March 28, 1947, Serial No. 737,931
16 Claims. (Cl. 318—345)



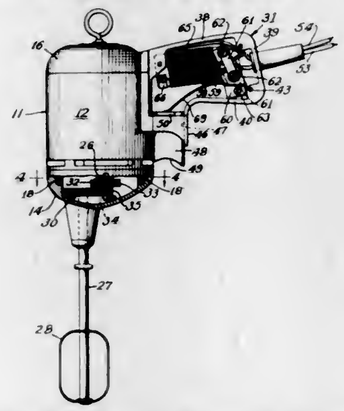
1. In combination with a controllable rectifier for supplying rectified power to a load from an alternating current source, said controllable rectifier having at least an electron emitting element and an electron control element, the provision of a capacitive element connected to said electron control element whereby the said electron control element will draw electrons to charge the said capacitive element when the said electron control element is positive with respect to said electron emitting element, means for applying an alternating current voltage to said electron control element from said alternating current source, fixed means for displacing the phase of the alternating current voltage applied to the electron control element with respect to the phase of the voltage applied to the electron emitting element, impedance means connected to said capacitive element for discharging the electron charge on said capacitive element, said impedance means including a thermionic tube, and variable unidirectional voltage means connected to said capacitive element for charging the said capacitive element, said variable unidirectional voltage means including a thermionic tube and variable biasing means connected across said load for obtaining a unidirectional current therefrom.

2,609,525

ELECTRICALLY DRIVEN PORTABLE APPLIANCE

Clark H. Gemmill, Chicago, Ill.; City National Bank and Trust Company administrator of said Clark H. Gemmill, deceased

Application August 2, 1950, Serial No. 177,246
3 Claims. (Cl. 318—349)



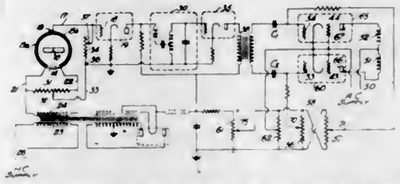
1. A portable electric appliance for hand use comprising, in combination, a housing, an electric motor mounted within said housing and adapted to drive working elements journaled thereon, a pistol-type handle fixed to said housing and constituting a hand grip, said handle being of a hollow construction to define an internal control compartment disposed immediately within said hand grip, electrical conductors disposed within said control compartment and interconnected with said motor to form a segment of an electrical energizing circuit running therethrough, a coil type rheostat and an on-off snap switch disposed within said compartment and connected to said conductors in series with each other and in series with said circuit segment, a motor control trigger movably mounted on said appliance in proximate relation to said hand grip for convenient actuation by the hand of the operator used to grip said handle, power regulating conductor means disposed in said compartment in association with said rheostat, and said power regulating conductor means and said snap switch being operatively interconnected with said trigger whereby initial control movement of said trigger serves to throw said switch to closed position to effect a precise energization of said motor and continued control movement of said trigger actuates said power regulating conductor means to gradually decrease the effective electrical resistance of said rheostat in said circuit segment for speeding up said motor.

2,609,526

COURSE OR CONDITION MAINTENANCE

Louis F. Falkenstein, Franklin Square, N. Y.

Application February 10, 1948, Serial No. 7,501
11 Claims. (Cl. 318—489)



1. In a control system, a pair of operating circuits for initiation of a work function, said operating circuits including a tube having cathodes,

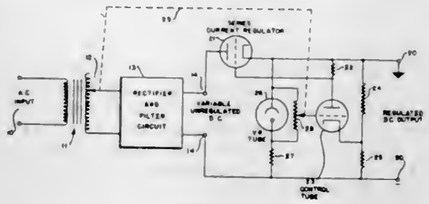
anodes, control grids, and auxiliary grids, each of said operating circuits also including one of said anodes, magnetic flux means normally maintaining said control grids at equal potential to prevent activation of said tube, means responsive to creation of a potential difference at said control grids to initiate the work cycle by way of one of said operating circuits, and means synchronized with said work cycle to continuously vary the potential at said auxiliary grids and thereby control said work cycle, said equal potential maintaining means including a second vacuum tube having a cathode, anode, and control grid, and balanced magnetized coil sections connected to said control grid.

2,609,527

VOLTAGE REGULATOR CIRCUIT

Louis E. Raburn, Evansville, Ind., and John P. Woods, Dallas, Tex., assignors to the United States of America as represented by the Secretary of the Army

Application October 11, 1949, Serial No. 120,803
2 Claims. (Cl. 321—19)



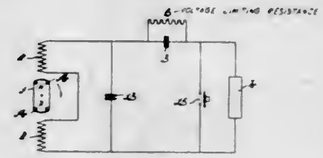
1. A power supply comprising first and second input terminals; a source of unregulated direct current voltage having the positive potential side thereof connected to said first input terminal and the negative potential side thereof connected to said second input terminal; voltage-control means coupled to said source for altering the magnitude of said unregulated voltage; a current regulator electron tube having at least a cathode, an anode and a control electrode; first and second output terminals adapted to have a load connected thereacross; means connecting said first input terminal to said first output terminal through the anode-cathode path of said current regulator tube; means connecting said second input terminal to said second output terminal; a control tube having at least a cathode, an anode and a control electrode; means for applying a fixed proportion of the voltage appearing across said output terminals to the cathode of said control tube; means shunting said output terminals for obtaining a point of potential having a fixed negative magnitude relative to the potential at said first output terminal; a potentiometer connected between said point of potential and said first output terminal; means for applying the potential at the movable tap of said potentiometer to the control electrode of said control tube; a resistor connecting the anode of said control tube to a point having a positive potential relative to the cathode thereof; means for applying the potential at the anode of said control tube to the control electrode of said current regulator tube; and means ganging the movable tap of said potentiometer and said voltage control means to alter the magnitude of the voltage between the movable tap of said potentiometer and said first output terminal in the same direction as the magnitude of said unregulated voltage.

2,609,528

DEVICE COMPRISING AN ALTERNATING CURRENT GENERATOR HAVING PERMANENT FIELD MAGNETS

Maximilien Felix Reijnst and Robert Henri de Beer, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 22, 1949, Serial No. 128,886
In the Netherlands December 17, 1948
6 Claims. (Cl. 322—46)



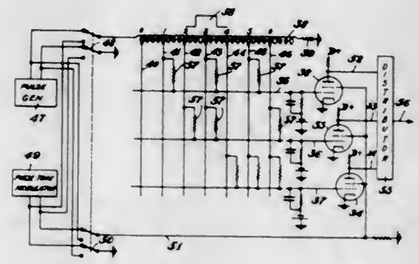
1. A device for protecting an alternating current generator with a substantially flat voltage-current characteristic and having a permanent field magnet against detrimental demagnetisation of the field magnet under relatively high current loads, comprising a capacitor in series with the generator having a value at which currents producing substantial demagnetization of the permanent magnet are limited, a load connected in series with the generator and capacitor, and an over-voltage limiter shunted across the capacitor and operative at a voltage below that at which the voltage developed across the capacitor is less than the minimum voltage at which adverse demagnetization of the permanent magnet occurs thereby preventing adverse demagnetization of the permanent magnet.

2,609,529

PULSE CODE TRANSLATOR

Arnold Lesti, Nutley, N. J., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware

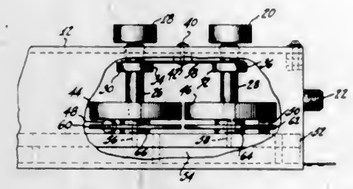
Application January 7, 1950, Serial No. 137,392
18 Claims. (Cl. 332—1)



1. A system for translating pulse time modulation signals into pulse code modulation signals comprising a plurality of normally blocked coding circuits, a first pulse source, a second pulse source, the pulses of one of said sources being time modulated, means for sequentially conditioning said coding circuits for release in different combinations corresponding to the different code signal amplitude levels under control of pulses from said first source and means for releasing said coding circuits under control of pulses from said second source in accordance

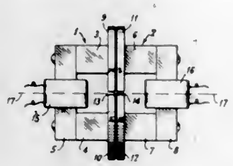
with the time modulation of said pulse time modulation signals to provide corresponding code combinations.

2,609,530
BALANCE CONTROLS FOR METAL DETECTORS
Donald J. Tricebock, Philadelphia, Pa., and Raymond A. York, Syracuse, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application May 5, 1949, Serial No. 91,609
8 Claims. (Cl. 336—79)



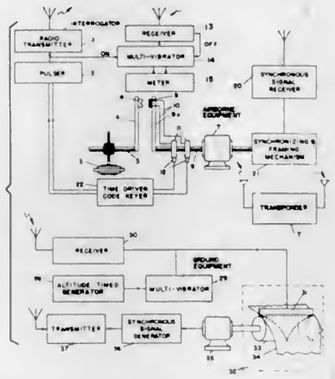
1. In apparatus employing a pair of field coils for establishing an electromagnetic field and an associated detector coil wherein voltages induced by said field are to be balanced, apparatus for effecting a substantial balance of said voltages which comprises first and second metal means to induce phase quadrature voltages in said detector coil, said metal means being mounted for movement through said field and being shaped to have a constant impedance during movement through said field in a plane substantially at right angles to the axis of said field, and means to move said first and second metal means independently in said plane between the centers of said field coils whereby the amplitudes of said phase quadrature voltages are varied.

2,609,531
INDUCTANCE DEVICE
Karl F. Kirchner, Bloomfield, N. J.
Application December 3, 1947, Serial No. 789,483
7 Claims. (Cl. 336—80)



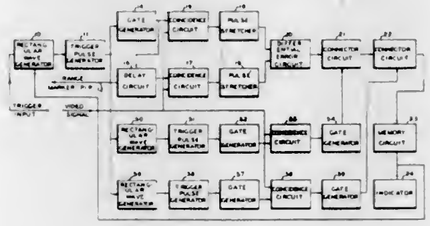
1. A high frequency inductance device comprising a first core, said core being of a material having a predetermined permeability and core loss at the operating frequency and being U-shaped and having spaced flattened ends on the legs of the core, at least one winding on said core intermediate said ends, so that current in said winding will oppositely magnetically polarize said flattened ends, a second core with spaced pole faces juxtaposed with said flattened ends to substantially close the magnetic circuits of said cores, at least one winding on said second core, the first and second mentioned windings being connected, said second core being slidable on said flattened ends to selectively interchange the relative position of the pole faces, on said ends, the spacing between said ends being less than the width of said pole faces.

2,609,532
ALTITUDE AND DISTANCE RECORDER
Marcel Wallace, East Port Chester, Conn., assignor, by mesne assignments, of one-half to said Wallace, doing business as Panoramic Laboratories, East Port Chester, Conn.
Application June 16, 1947, Serial No. 754,941
15 Claims. (Cl. 343—7)



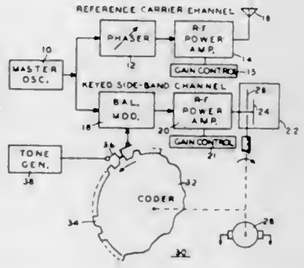
1. In an airborne distance measuring equipment, a pulse transmitter, a pulse receiver having means for increasing and decreasing the gain thereof, means responsive to the transmission of a pulse by said transmitter for increasing the gain of said receiver, means responsive to reception of a pulse by said receiver for decreasing the gain of said receiver, and means responsive to the altitude of said transmitter for determining the time of pulse transmission with respect to an arbitrary zero of time.

2,609,533
ELECTRICAL MEASURING SYSTEM
Andrew B. Jacobsen, Somerville, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application March 22, 1945, Serial No. 584,233
5 Claims. (Cl. 343—13)



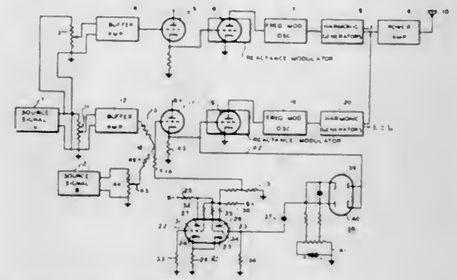
1. In a device for continuously indicating the time of arrival of a series of pulses, means for indicating said time, means for predicting the time of the next arrival of said pulses, means arranged to measure the time of arrival of the first of said series with respect to the predicted time of arrival, first and second means for connecting the measuring means with said indicating and predicting means, means for causing the first connector means to be conductive if a second pulse arrives at a predetermined time after said first pulse, means for causing the second connector means to be conductive if a third pulse arrives at a predetermined time after said first pulse, means for adjusting said measuring means and said predicting means in accordance with the predicted arrival.

2,609,534
RADIO BEACON
Paul B. Taylor, Dayton, Ohio
Application August 24, 1944, Serial No. 551,050
13 Claims. (Cl. 343—106)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



10. A system for radiating a modulated signal which when received produces a signal having a direction-dependent degree of modulation, said system comprising means for non-directionally radiating an unmodulated wave from a given point and means for unidirectionally radiating a suppressed-carrier modulated wave from substantially the same point, whereby when said waves are received and combined they produce a resultant signal having a direction-dependent degree of modulation, means for varying the effective direction of radiation of said modulated wave at a rate which is unrelated to the modulation components of said modulated wave, and means for synchronously varying a modulation characteristic of said modulated wave with each change in effective direction.

2,609,535
MULTIPLEX FREQUENCY MODULATION SYSTEM
Gregory J. Harmon, Washington, D. C., assignor, by mesne assignments, to Padevco, Inc., Washington, D. C., a corporation of Delaware
Application February 6, 1950, Serial No. 142,643
7 Claims. (Cl. 343—200)

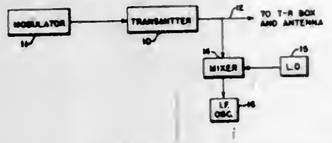


1. In a frequency modulation system, means for generating a first wave at a median frequency f_1, means for generating a second wave at a median frequency f_2, the median frequency difference between f_1 and f_2 being in alternation $+f_0$ and $-f_0$, a source of first modulating signal, as source of second modulating signal, means for modulating said first wave in frequency in response to said first source of modulating signal in a frequency channel extending from f_1+F to f_1-F, where $+F$ is the frequency of the upper limit of said channel, and $-F$ is the lower limit of said channel means for modulating said second wave in response to said first modulating signal in the same sense and to the same extent as said first wave, means for additionally modulating said second wave in frequency in response to said second modulating signal with deviations having maximum values $\pm f_0$, and means for additionally frequency modulating said second wave by fixed amounts $2f_0$ toward the interior of said frequency channel wherever said second wave approaches the frequencies f_1-F and f_2+F.

ABSTRACTS OF APPLICATIONS

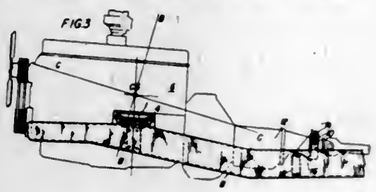
Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

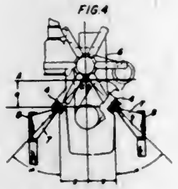
623,393. **RADAR SYSTEM FOR MOVING TARGET INDICATION.** Robert A. McConnell, Belmont, Mass., assignor, by mesne assignments, to the Government of the United States of America, as represented by the Secretary of War. Filed Oct. 19, 1945. Published Sept. 2, 1952. Class 250—36. 1 sheet of drawings. 6 pages of specification.



The accompanying figure of the drawing shows a system for synchronizing a "coherent" oscillator used in a radio object-locating system. Modulator 11 drives radio frequency transmitter 10 to produce pulses of short duration which are fed through a transmission line 12 to a transmit-receiver switch and antenna. A portion of the transmitted pulse is fed to a mixer 14 where it is caused to beat with the oscillations from local oscillator 15. This intermediate frequency pulse is applied to intermediate frequency oscillator 16 in such a manner as to lock the intermediate frequency oscillations in a fixed phase relative to each transmitted pulse. The output of the oscillator 16 is a continuous wave at intermediate frequency, the phase of which is periodically adjusted in timed relation with the transmission of radio frequency pulses.

711,771. **SUSPENSIONS FOR INTERNAL COMBUSTION ENGINES.** Robert C. Lewis, Winchester, Mass., assignor to The MB Manufacturing Company, Inc., New Haven, Conn., a corporation of Connecticut. Filed Nov. 22, 1946. Published Sept. 2, 1952. Class 248—7. 2 sheets of drawings. 16 pages of specification.





This application relates to a suspension for internal combustion engines having a plurality of cylinders, its object being to provide isolation of the vibratory forces originating within the engine. Such a body, freely mounted, has three principal axes of inertia, AA, BB and CC, which are mutually perpendicular. They pass through the center of gravity. In order to isolate oscillatory movements about these three principal axes of inertia, the engine is supported at each side by vibration isolators located laterally opposite the center of gravity of the engine. The isolators are so placed that the elastic center of the mounted engine with respect to yaw and roll is at the center of gravity of the engine. The elastic center is that point in a mass at which an applied force will result in pure translation with no rotation. Thus a force applied at the center of gravity of an engine mounted in accordance with this application will cause neither yaw nor roll if applied along the vertical or transverse axes AA or BB of Figs. 3 and 4 but will result merely in a purely translational movement.

The disclosure shows the isolator mounting means vertically offset either above or below the level of the engine center of gravity with the stiff compression axes of the rubber elements in the mounting means inclined to intersect on the opposite side of the center of gravity vertically from the isolator mounting means. This can be done in accordance with the formula

$$L' \sin^2 a(S \cot a - a) = \cos^2 a(S \tan a + a)$$

where L' equals the ratio of the compression stiffness to the shear stiffness of the rubber elements, a equals the vertical distance the centers of the rubber elements are offset from the center of gravity, S is the lateral distance from the center of gravity to the rubber elements, and a is the angle from the vertical of the stiff axes of the rubber elements. While the compression axes of the isolator units preferably intersect at the exact point on the opposite side vertically of the center of gravity from the suspension means so that the elastic centers with respect to yaw and roll coincide with the center of gravity, the major advantages of the invention will still be secured if the location of the intersection deviates from this point to the extent that the elastic center with respect to either yaw or roll is not further removed from the center of gravity than 10% of the radius of gyration.

Suspension means in accordance with this invention provides substantial decoupling of the lateral and torsional motions of the engine and allows decoupled motions of low natural frequency in roll about the longitudinal principal inertial axis and in yaw about the vertical principal inertial axis. In these respects it is similar to a two-point suspension in which the suspensions are mounted on the transverse principal inertial axis passing through the center of gravity of the engine. Suspension means in accordance with this invention also provide a relatively low frequency in pitch about the transverse principal inertial axis through the center of gravity.

In the usual operations of the engine, the suspensions at opposite sides of the engine constitute the sole support thereof.

748,605. **FREQUENCY-DETECTOR SYSTEM.** Bernard D. Loughlin, Lynbrook, N. Y. Filed May 16, 1947. Published Sept. 2, 1952. Class 250—20. 2 sheets of drawings. 35 pages of specification.

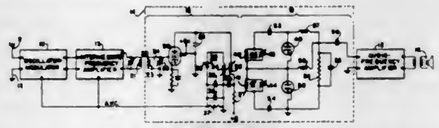
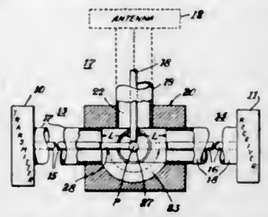


Fig. 1 represents a frequency-modulation receiver including a frequency-detector system 14 comprising the combination of a dynamic limiter 18 and a frequency detector 19 of the ratio-detector type. The supplementary amplitude-rejection properties of the dynamic limiter 18 and the ratio detector 19 provide improved amplitude-rejection properties for the detector system 14. In particular, the ratio detector 19 may be so designed as to have substantial rejection of undesired amplitude modulation of a frequency-modulated wave signal applied to unit 14 over the lower amplitude portion of the average amplitude range thereof while the dynamic limiter 18 may be proportioned to provide substantial rejection of undesired amplitude modulation over the higher amplitude portion of the average amplitude range.

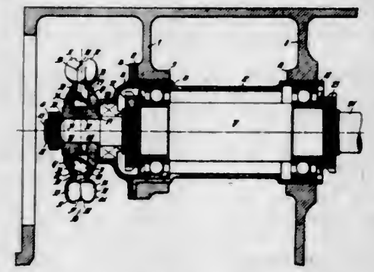
749,516. **COAXIAL LINE SWITCH.** Louis D. Smullin, Nutley, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware. Filed May 21, 1947. Published Sept. 2, 1952. Class 178—44. 1 sheet of drawings. 9 pages of specification.



This application relates to a switching arrangement for coaxial transmission lines. The switching arrangement comprises a member having a pair of aligned bores communicating with a cavity 23 and a third bore 22 intersecting with the axis of the pair of bores at a common point within the cavity. A set of three coaxial transmission lines have their respective outer conductors 17, 18 and 19 fitted within corresponding bores. The ends of the inner conductors of the lines are spaced apart so as to normally reduce to a minimum the wave propagation from one line to another. A movable rod 28 extends into said cavity and selectively connects the central conductor of the line passing through the bore 22 with the central conductor of either of the lines passing through the aligned bores.

764,376. **HIGH SPEED IMPULSE WHEEL.** Ira Morgan White, Walnut Creek, and John W. Knight, San Francisco, Calif., assignors to The Pelton Water Wheel Company, San Francisco, Calif., a corporation of California. Filed July 29, 1947. Published Sept. 2, 1952. Class 253—136. 2 sheets of drawings. 12 pages of specification.

The structure is located within a housing formed with a pair of transverse walls 7 and 8 enlarged to form bosses 9 and 10 coaxially bored to receive a sleeve 12 having an out-turned flange 13. A cap 14 having a similar flange 16 nests within sleeve 12 and grips an anti-friction bearing 17 in position. A comparable anti-friction bearing 18 is coaxially located within sleeve 12. The two bearings 17 and 18 serve as mounts for a driven shaft 21, fastenings 22 and 23 clamping the bearings against shoulders on the shaft to locate it accurately with respect to the walls 7 and 8. One end 24 of the shaft extends to any suitable piece of driven equipment. To drive the shaft at its designed relatively high speed of rotation, for example fifty thousand revolutions per minute, the shaft is extended beyond bearing 17 through a lubrication seal 26 within the cap 14 and is reduced in diameter to afford a shoulder 27 and a wheel mounting portion 28. Lightly pressed on the mounting portion 28 and abutting shoulder 27 is a side plate 29 having an inner flange 32 and a peripheral arcuate flange 33 defining between them a central annular cavity 31. A somewhat similar side plate 34 is also lightly pressed on the shaft and itself is formed with a central cavity 36 defined between an inner flange 37 and peripheral arcuate flange 38. A lock washer 39 is pressed against the side plate 34 by a fastening nut 41 engaging shaft threads 42 and positioned by lock 43. Disposed between the side plates 29 and 34 is a plurality of bucket units 44, arranged in a circle centered upon the center of

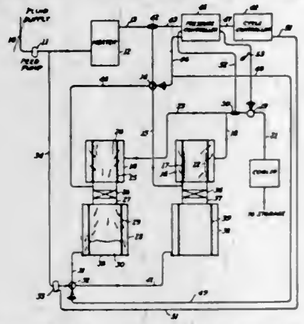


shaft 21 but not fastened to the shaft except by frictional engagement with side-plates 29 and 34. Each bucket unit includes a pair of buckets 51 and 52 including a pair of bowls 53 and 54 coming together on a central plane of symmetry indicated by line 56. The bowls join in a splitter 57 and have a cut out margin 58 to receive the impinging jet of hydraulic fluid from the usual nozzle with needle control directed tangentially into the buckets. Integrally formed by precision casting, the bucket unit also comprises a central stem 59 of a width considerably less than that of the two buckets but of considerably greater peripheral depth to afford great resistance to deflection, and which in transverse cross-section is substantially rectangular and merges smoothly with the bucket structure. Similarly merging with stem 59 is a base 61 having symmetrically disposed shoulders 62 and 63 engaging flanges 33 and 38. When looked at along the axis of the wheel, the base 61 is segmental in outline, that is, the shoulders 62 and 63 are curved to match the arcuate contour of flanges 33 and 38, concentric with the curvature of the wheel. The bottom surface 68 of the base also is of arcuate contour generally and clears the inner flanges 32 and 37. A sufficient number of buckets are assembled to encompass the driven shaft 21, the bucket bases 61 and portion of the stems 59 being clamped in the cavities 31 and 36 and between flanges 33 and 38 respectively, thus serving to dispose all of the bucket units in a common plane perpendicular to the

axis of rotation of the shaft **21** and to confine the bucket units against displacement by centrifugal force. The bucket units are of such dimension that when completely assembled the radial surfaces of the segmental bases are in abutment and serve to align the buckets peripherally.

The fit of the bucket units and the side plates thus permits the bucket units to be rotated in unison with the shaft without any substantial slippage merely by frictional interengagement of the parts.

770,212. **FILTRATION APPARATUS AND METHOD OF FILTERING FLUIDS.** Richard W. Bruins, Thomas R. Dedell, and Silas Hulse, III, Rochester, N. Y. Filed Aug. 23, 1947. Published Sept. 2, 1952. Class 210—150. 1 sheet of drawings. 17 pages of specification.



This specification describes a method of continuously and automatically filtering a highly viscous cellulose ester solution.

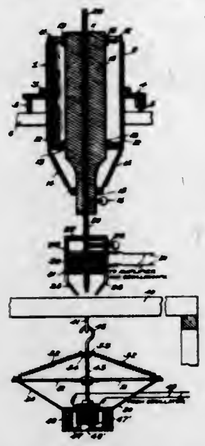
Referring to the drawing, the solution is heated in heater **12** and is conducted to filter **16** where undissolved cellulose ester particles are separated by the filter screen **17**. The filtered solution then flows to the cooler and to storage. A portion of the filtered solution is employed to backwash the associated filter **24**. This backwashing removes the filter cake from the filter and places the filter in condition for reuse. The backwashing solution is returned through pipes **31**, valve **32**, pump **33** and pipe **34** to the heater for refiltering. A pressure controller and cycle controller system automatically directs the fluid to one filter until it becomes clogged and then directs the solution to be filtered to the other filter while permitting the clogged filter to be backwashed by the filtered fluid.

771,180. **DEVICE FOR DETERMINING THE CHARACTERISTICS OF THE NORMAL MODES OF VIBRATION OF STRUCTURES.** Charles H. Norris, Lexington, and Shih Y. Lee, Cambridge, Mass. Filed Aug. 29, 1947. Published Sept. 2, 1952. Class 73—67. 1 sheet of drawings. 7 pages of specification.

The device is for testing the vibration of structures consisting of a vibrator and a pickup.

The pickup comprises a cylindrical support **1**, a spindle **10** resiliently connected to but insulated from said support, a bore **11** formed longitudinally through said spindle, a magnetized plunger **20** slidably mounted through said bore, set screw **16** for retaining said plunger in a given position relative to said spindle, and a coil **30** adjustably connected to and positioned around an end portion of said plunger.

The vibrator for producing vibrations in a mechanical member to be tested, comprises a permanent magnet member **40**, and a current-carrying armature **47**, which is oscillatable along a substantially straight line upon energization thereof, a light plunger **45** rigidly attached to the armature, an attaching device **46** for attaching the plunger **45** to the member **40** to be vibrated,



springs **52** connected between plunger **45** and a support **50** in the shape of a truncated cone connected to the upper end of the magnet member, and a plurality of cords for positioning plunger **45** with respect to the permanent magnet.

782,959. **PURIFYING PHOTOGRAPHIC EMULSIONS.** Robert E. Stauffer, Rochester, N. Y., Filed Oct. 29, 1947. Published Sept. 2, 1952. Class 204—180. No drawing. 7 pages of specification.

This application describes the purification of photographic silver halide emulsions by means of electrodialysis, and the concentration of silver halide emulsions by means of electrophoresis.

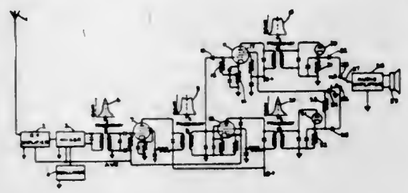
To purify a silver halide emulsion containing a soluble salt which is to be removed, the emulsion is placed in the middle compartment of a three compartment electrodialysis cell. Passage of direct current between electrodes in the end compartments, causes ions of the salt to migrate from the middle compartment to the electrode of opposite polarity in the end chambers, leaving salt-free emulsion in the middle compartment.

Photographic silver halide emulsions are concentrated by means of electrophoresis by placing the emulsion in a cell having electrodes separated from the emulsion by means of a fine mesh nonconductive screen. Passage of direct current thru the cell causes the silver halide grains to penetrate the screen and deposit as a paste on the electrode having a charge opposite that of the grains.

67,145. **HIGH FIDELITY CIRCUIT.** James E. Beggs, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Dec. 24, 1948. Published Sept. 2, 1952. Class 250—20. 1 sheet of drawings. 10 pages of specification.

The disclosure relates to a broadcast radio receiver which can be switched to operate with either of two signal channels: a relatively narrow-band channel and a relatively wide-band channel. When the receiver is switched for high-fidelity operation, signals are translated through the wide-band channel. Under these conditions, an automatic gain control voltage is applied to the last intermediate-frequency stage of the wide-band channel which is derived from a detector in the narrow-band channel. This facilitates accurate tuning to the center of the wide-band channel.

As shown in the figure, input signals from the antenna **1** are applied to conventional superheterodyne receiver circuits including R. F. amplifier **2**, mixer **3**, local oscillator **4**, and first I. F. amplifier **7**. The intermediate frequency signals are then coupled to separate wide-band and narrow-band channels through a broadly-tuned transformer **8**.



The narrow-band channel includes a further I. F. amplifier **18**, a conventional A. V. C. circuit, and a diode second detector **21**. The output of amplifier **18** is coupled to detector **21** through a sharply-tuned transformer **19**. When a selector switch **27** is in its lower operating position, signals are supplied directly to audio amplifier **28** and loudspeaker **29**, and the receiver operates as a conventional narrow-band superheterodyne receiver.

When the switch **27** is in the position shown in the figure, the wide-band channel is also operative. This comprises I. F. amplifier **11** which is coupled to another second detector **30** through a broadly-tuned transformer **12**. At the same time, an auxiliary gain control voltage is also applied from narrow-band detector **21** to the suppressor grid **17** to amplifier **11** through a filter network **23, 24**. This facilitates tuning, since receiver output is maximum only when the set is tuned to provide maximum output from the narrow-band circuits. A threshold bias is also applied to wide-band I. F. amplifier **11**, from a cathode resistor **14**, to suppress the audio output unless the received signal level exceeds a predetermined minimum value.

96,832. **USE OF MERCAPTANS IN COPOLYMERIZATION OF VINYL ETHERS WITH ACRYLONITRILE.** Wendell R. Conard, Kent, and Chris E. Best, Franklin Township, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Filed June 2, 1949. Published Sept. 2, 1952. Class 260—85.5. No drawing. 8 pages of specification.

The application relates to a process in which vinyl ethers are copolymerized with acrylonitrile-type compounds in aqueous emulsion in the presence of a mercaptan modifier. The vinyl ethers may be any of those containing a benzyl, phenyl or alkyl group of from one to four carbon atoms and the acrylonitrile-type compound may be acrylonitrile, methacrylonitrile or ethacrylonitrile. The mercaptan modifier may be an alkyl, aryl, furyl or furfuryl mercaptan such as methyl, ethyl, propyl, butyl, amyl, hexyl, heptyl, octyl, nonyl, decyl, undecyl or dodecyl (including isopropyl, n-propyl, sec. butyl and tert-butyl) cyclohexyl, cyclopentyl, benzyl, furyl and furfuryl mercaptans, thiophenol, thiotoluol, thionaphthols, thiocresols, thioxylenols, etc. The products have enhanced flexibility and solubility.

Following are examples:

Example 1

The effect of the mercaptans as modifiers is illustrated by the change in plasticity of the copolymer produced from n-butyl, vinyl ether and acrylonitrile in the presence of varying amounts of mixed-amyl mercaptan: 16 grams of the ether and 9 grams of acrylonitrile are subjected to copolymerization at 40° C. for 80 hours, using 0.5 grams $(NH_4)_2S_2O_8$ as catalyst, 0.25 grams Aquarex D (sodium lauryl and myristyl sulfates) as emulsifying agent, a buffer composed of 0.25 grams $Na_4P_2O_7$ and 0.25 grams of $NaHCO_3$, 100 grams of water, and varying amounts of the mercaptan modifier. The following table indicates the effect of varying amounts of the mercaptan on the yield and on the plasticity of the resulting copolymer:

Amyl Mercaptan	Yield	Copolymer Plasticity
0.1 gram	66.8%	4710
0.25 gram	63.2%	6773
0.5 gram	62.0%	9840

The effect of using increasingly larger amounts of the amyl mercaptan in the reaction mixture is to increase the plasticity of the copolymer. The unmodified reaction gave a copolymer insoluble in methyl ethyl ketone. One-tenth of a gram of amyl mercaptan rendered the copolymer soluble in this solvent and the larger amounts of amyl mercaptan likewise gave soluble copolymer.

Example 2

A copolymer was prepared from the following charge:

n-Butyl vinyl ether	grams	15
Acrylonitrile	do	10
Water	cc	100
Ammonium persulfate	grams	0.3
Sodium citrate	do	0.6
Sodium bicarbonate	do	0.6

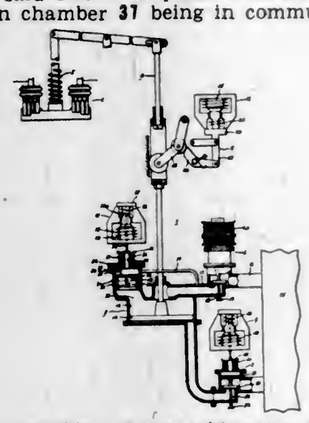
The charge was agitated for 16 hours at 45° C. The copolymer had a plasticity of 1850 sq. mm. and formed a gel in methyl ethyl ketone in 10 per cent concentration at room temperature.

A resin made from the same system but including 0.25 cc. of mixed-amyl mercaptan in the charge. had a plasticity of 6773 sq. mm. and was readily soluble in methyl ethyl ketone at room temperature to form a moderately viscous solution.

100,331. **FLUID OPERATED CIRCUIT BREAKER.** Nelson H. Westervelt, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York. Filed June 21, 1949. Published Sept. 2, 1952. Class 200—82. 2 sheets of drawings. 17 pages of specification.

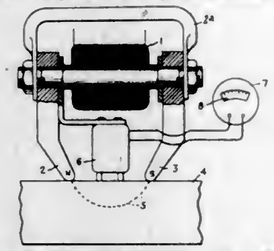
In a circuit breaker comprising relatively movable contacts **2**, operating mechanism therefor comprising a fluid operated motor **3**, valve means for admitting fluid under pressure to the working end of said motor to operate said contacts to closed position, means operable in response to abnormal circuit conditions to effect opening movement of said contacts comprising a dump valve **9** having one side thereof in communication with the working end of said fluid motor and operable in response to the fluid pressure in the working end of said motor to cause quick collapse of said pressure, electro-responsive means **10** and an evacuation chamber **37** disposed on the opposite side of said dump valve and supplied with pressure fluid in response to opening of said valve means **6** for restraining said dump valve **9** in closed position and to release said dump valve to open position dependent upon the operative con-

dition of said electro-responsive means **10**, said evacuation chamber **37** being in communication



39 with the working end of said motor, the pressure in the working end of said motor being effective when the pressure in said evacuation chamber is released to move said dump valve to open position to cause quick collapse of said fluid pressure.

112,210. **THICKNESS COMPARATOR AND FLAW DETECTOR FOR MAGNETIC MATERIAL.** William D. Williams, Scotia, N. Y., assignor to General Electric Company, a corporation of New York. Filed Aug. 25, 1949. Published Sept. 2, 1952. Class 175—183. 1 sheet of drawings. 8 pages of specification.



A device for testing the uniformity of thickness of the wall of a tube of magnetic material, comprising means for inducing magnetic flux in the wall of the tube undergoing test and a magnetic field gage having a probe with contacts arranged for contacting the outer surface of the tube wall. The gage includes a meter having an indicator needle which may be adjusted to a predetermined position corresponding to a desired thickness of the tube wall. When these contacts are moved over the surface of the tube wall while maintaining the line through the contacts parallel to the direction of induced flux, deflections of the needle from its predetermined position indicate flaws in the wall adjacent the points corresponding to the deflections, the magnitudes of the deflections being proportional to the depths of the flaws below the surface of the tube.

136,651. **PROCESS FOR IMPROVING GRAPE PRODUCTS.** George K. Notter, Albany, Calif., assignor to the United States of America as represented by the Secretary of Agriculture. Filed Jan. 3, 1950. Published Sept. 2, 1952. Class 99—205. No drawing. 14 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)

Potassium acid tartrate naturally occurs in grape juice in such high concentrations that at least part of it must be removed in order to prevent the excess from settling out in the finished product. In preparing concentrated grape juice, the deposition of potassium acid tartrate is more of a problem as this salt is less soluble in the concentrated juice than in the natural juice.

In accordance with this disclosure the grape juice is contacted with a cation exchange material in the sodium cycle whereby, in effect, the potassium acid tartrate is converted into sodium acid tartrate. The sodium salt is about 10 times as soluble as the potassium salt and hence will not precipitate out of solution. The treatment does not materially alter the pH, the color, nor flavor of the juice. Suitable cation exchange materials are sulphonated coal, sulphonated polystyrene, sulphonated phenol-formaldehyde resins, etc.

In conducting the ion exchange treatment, the entire batch of the juice may be so treated. However, it is preferred to treat only part of the batch to remove its potassium content and blend this treated juice with a suitable quantity of untreated juice so that the potassium acid tartrate concentration of the blend is less than saturated under the desired conditions of processing or storage. If the juice is to be preserved in its unconcentrated state then the potassium acid tartrate concentration of the blend may be up to 5 grams per liter. If it is desired to make a four-fold concentrate, the potassium acid tartrate concentration must be reduced to about 1 gram per liter. Higher concentrates will obviously require a lower concentration.

Example

A lot of Concord grape juice (freshly pressed and supersaturated with tartrate) having a potassium acid tartrate content of 7 grams per liter was prepared. Two liters of this juice was passed through a column containing 100 ml. of a sulphonated polystyrene resin cation exchange material saturated with sodium. Two liters of effluent juice substantially free of potassium ions was obtained. After regeneration of the cation exchanger, several more batches of the juice were so treated.

Blends were made with the treated juice and the original freshly-pressed juice, as follows:

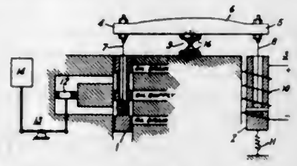
A. To make a single strength blended juice, 1 liter of the treated juice was mixed with 2.5 liters of freshly pressed juice. The composite juice had a potassium acid tartrate concentration of 5 grams per liter. This composite juice had a pH of 3.5 and had a natural flavor and color. A sample stored for several months showed no deposition of potassium acid tartrate.

B. Six liters of the treated juice was mixed with 1 liter of freshly pressed juice and the resulting composite juice (potassium acid tartrate content 1 gram/liter) was concentrated to a volume of 1.75 liters to produce a four fold concentrate. A sample of this concentrate was diluted with 3 times its volume of water to make a reconstituted juice. This juice had a pH of 3.5 and had a natural flavor and color.

159,090. **COUNTERBALANCED FORCE TRANSMITTING SYSTEM.** Ernest E. Lewis, Scotia, N. Y., assignor to General Electric Company, a corporation of New York. Filed Apr. 29, 1950. Published Sept. 2, 1952. Class 137—728. 1 sheet of drawings. 7 pages of specification.

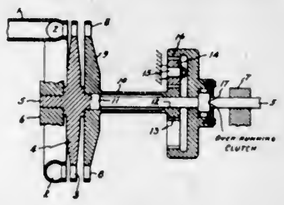
This application discloses an electro-hydraulic servo valve structure in which forces are transmitted from a solenoid **2** to a hydraulic pilot valve

1 through a force transmitting system including wire tension members **7** and **8** and a lever arm **6**



which is pivoted by means of two or more leaf springs **9** arranged at right angles to one another.

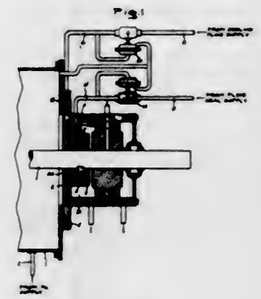
164,381. **GEARING ARRANGEMENT FOR COUNTER-ROTATING TURBINE DRIVE.** David C. Prince, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed May 26, 1950. Published Sept. 2, 1952. Class 253—16.5. 1 sheet of drawings. 8 pages of specification.

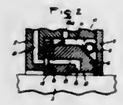


This application relates to a multi-stage axial flow elastic fluid turbine having a first stage rotor **4** and a second stage rotor **9** arranged in series. The first rotor is directly coupled to the output shaft **5** and the second wheel **9** is arranged to drive the output shaft through the reduction gear **14** and overrunning clutch **17**. With this arrangement, at low speeds the first rotor **4** does not efficiently extract the energy of the motive fluid, and the residual energy drives the second stage wheel **9** fast enough to deliver torque to the output shaft **5** through the overrunning clutch. As the first stage wheel **4** comes up to normal operating speed, the efficiency of the energy conversion therein improves with the result that the second stage wheel **9** "floats" without delivering any torque through the overrunning clutch.

207,013. **HIGH PRESSURE SHAFT SEAL.** Dewitt S. Snell, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Jan. 20, 1951. Published Sept. 2, 1952. Class 286—9. 1 sheet of drawings. 11 pages of specification.

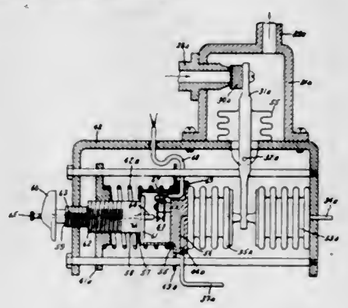
A seal for a shaft **3** extending from a casing **1**, as for example a turbine generator, which is adapted to contain a gas under pressure and having a seal housing **4** with a wall **5** adjacent the casing **1** and enclosing a liquid chamber **11** supplied with liquid at sealing pressure greater than the pressure of the gas in the casing, a sealing ring **6** encircling the shaft **3** within the chamber and biased by spring **8** toward the wall **5** with the inner diameter of the portion of the sealing ring adjacent the wall being greater than the corresponding diameter of the shaft providing a sealing chamber **12** therebetween, sealing liquid passages **10** through the ring from the liquid chamber **11** to the sealing chamber **12**, and separate cooling means including the remaining portion of the ring having an inside diameter greater than the diameter of the shaft to provide a cooling chamber **22** therebetween, cooling passages **16** and **17** in the ring and cooling passages **18** in the housing communicating into the cooling chamber





22, and means for supplying liquid to said cooling passages at a pressure lower than the sealing pressure.

224,593. **FLUID FLOW CONTROL APPARATUS FOR HEAT TRANSFER SYSTEMS.** Warren A. Spofford, Glen Ridge, N. J., assignor to General Electric Company, a corporation of New York. Filed May 4, 1951. Published Sept. 2, 1952. Class 257—3. 3 sheets of drawings. 25 pages of specification.



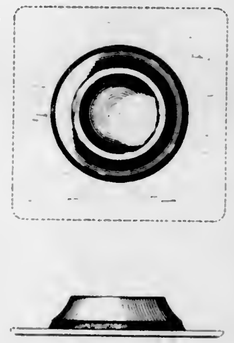
An air conditioning system which provides heating in the winter and cooling in the summer and utilizes a single heat transfer coil through which either heated or cooled liquid is circulated is provided with a fluid flow control valve actuated solely in response to the temperature of the zone to be conditioned. The actuating mechanism for the valve includes one expansible bellows completely filled with liquid and arranged to move the valve toward its closed position upon an increase in temperature and a second expansible bellows containing a vaporizable liquid and arranged to urge the valve toward its open position upon a rise in temperature. The feeler elements of the bellows are responsive to the temperature of the air to be conditioned. The first bellows is urged toward its valve closing position by a compression spring, the extension of the spring being limited by a stop so that upon further contraction of the bellows the spring no longer opposes opening of the valve, and the first bellows contracts further to permit opening of the valve by the second bellows within a predetermined relatively low range of temperatures, this being the winter

control range. As the temperature increases toward the higher or cooling range, the spring is compressed by expansion of the liquid in the first bellows, but the valve is maintained closed until a predetermined temperature is reached at which the vapor pressure in the second bellows is sufficient to displace the first bellows and open the valve in opposition to the spring. Thus, in the cooling range the second bellows opens the valve upon a rise in temperature, whereas during the heating range the first bellows overcomes the second bellows and closes the valve upon a rise in temperature in the heating range. A switch may be incorporated in the valve control so that it is closed upon a predetermined expansion of the liquid filled bellows and may be employed to switch the heat transfer fluid supply system from heating to cooling.

DESIGNS

SEPTEMBER 2, 1952

167,602
CASTER CUP OR SIMILAR ARTICLE
Betty Auer, Chicago, Ill.
Application September 29, 1950, Serial No. 12,393
Term of patent 14 years
(Cl. D10—6)



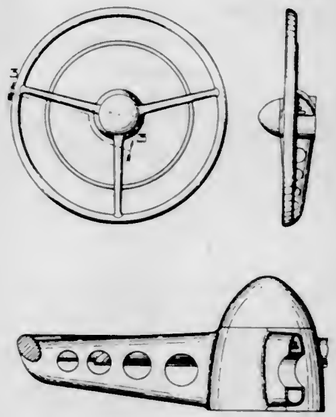
The ornamental design for a caster cup or similar article, as shown and described.

167,603
CASTER CUP OR SIMILAR ARTICLE
Betty Auer, Chicago, Ill.
Application September 29, 1950, Serial No. 12,394
Term of patent 14 years
(Cl. D10—6)



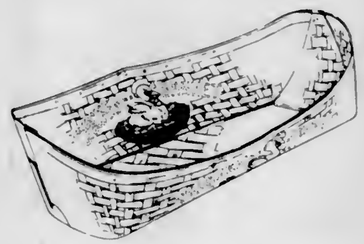
The ornamental design for a caster cup or similar article, as shown and described.

167,604
AUTOMOBILE STEERING WHEEL
Maurice F. Baldwin, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 12, 1952, Serial No. 20,169
Term of patent 7 years
(Cl. D14—30)

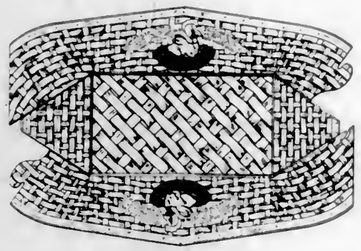


The ornamental design for an automobile steering wheel, substantially as shown.

167,605
FOOD BASKET
Ray Bang, Brainerd, Minn.
Application May 1, 1952, Serial No. 19,558
Term of patent 14 years
(Cl. D58—4)

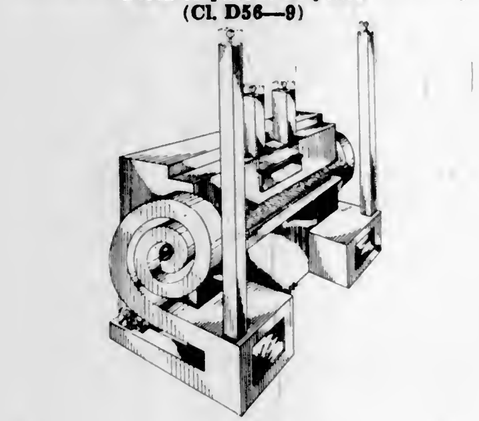


167,605—Continued



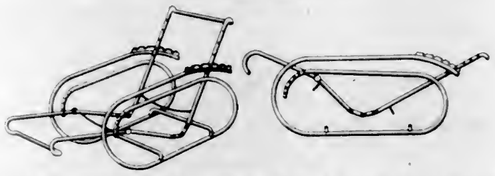
The ornamental design for a food basket, as shown and described.

167,606
CASING FOR A PIANO OR SIMILAR ARTICLE
Jack Barofsky, Los Angeles, Calif.
Application December 19, 1951, Serial No. 17,776
Term of patent 14 years
(Cl. D56—9)



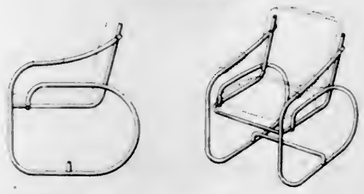
The ornamental design for a casing for a piano or similar article, as shown and described.

167,607
TUBULAR LOUNGE CHAIR FRAME
Otto Becker, Sarrebruck, Territory of Saar
Application November 21, 1950, Serial No. 13,071
Term of patent 14 years
(Cl. D15—11)



The ornamental design for a tubular lounge chair frame, as shown.

167,608
TUBULAR METAL ARM CHAIR
Otto Becker, Sarrebruck, Territory of Saar
Application November 21, 1950, Serial No. 13,072
Term of patent 14 years
(Cl. D15—8)



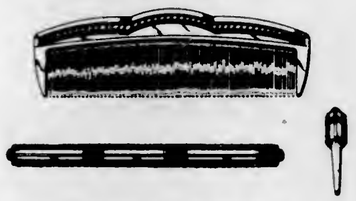
The ornamental design for a tubular metal arm chair, as shown and described.

167,609
COMBINED ASH TRAY AND CIGARETTE HOLDER
Job Berriman, Sr., Jacksonville, Oreg.
Application June 29, 1951, Serial No. 15,717
Term of patent 7 years
(Cl. D85—2)



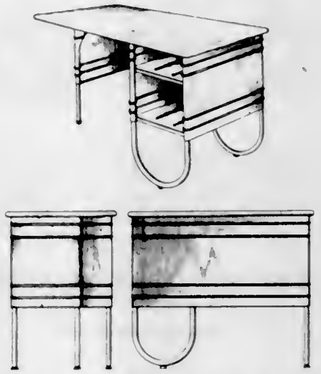
The ornamental design for a combined ash tray and cigarette holder, as shown.

167,610
COMB OR THE LIKE
Jack Bloch, Leominster, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts
Application June 21, 1952, Serial No. 20,297
Term of patent 14 years
(Cl. D86—8)



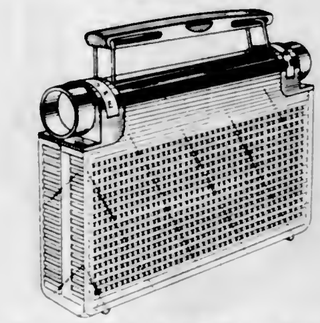
The ornamental design for a comb or the like, substantially as shown and described.

167,611
DESK
Arthur P. Brashear, Jr., Temple, Tex., assignor to American Desk Manufacturing Company, Temple, Tex., a corporation of Texas
Application April 9, 1952, Serial No. 19,257
Term of patent 14 years
(Cl. D33—7)



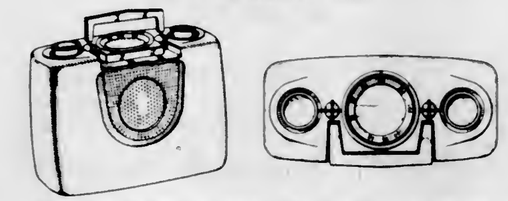
The ornamental design for a desk, as shown.

167,612
RADIO CABINET
Robert D. Budlong, Skokie, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application February 29, 1952, Serial No. 18,732
Term of patent 7 years
(Cl. D56—4)



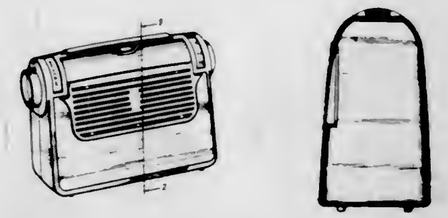
The ornamental design for a radio cabinet, as shown and described.

167,613
PORTABLE RADIO CABINET
Robert D. Budlong, Skokie, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application April 22, 1952, Serial No. 19,434
Term of patent 7 years
(Cl. D56—4)



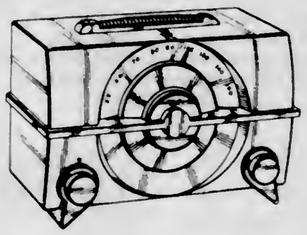
The ornamental design for a portable radio cabinet, as shown and described.

167,614
RADIO CABINET
Robert D. Budlong, Skokie, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application June 19, 1952, Serial No. 20,278
Term of patent 7 years
(Cl. D56—4)



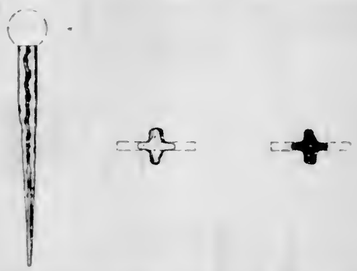
The ornamental design for a radio cabinet, as shown and described.

167,615
RADIO RECEIVER CABINET
Robert D. Budlong, Skokie, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application June 19, 1952, Serial No. 20,279
Term of patent 7 years
(Cl. D56—4)



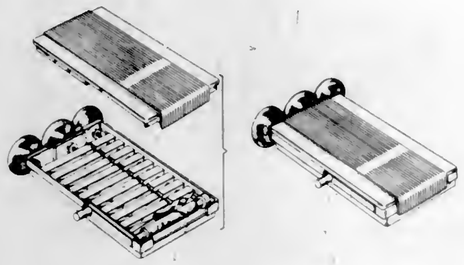
The ornamental design for a radio receiver cabinet, as shown and described.

167,616
ICICLE HIGHBALL STIRRER AND COCKTAIL PICK
George Clare, Maplewood, N. J.
Application April 18, 1950, Serial No. 9,287
Term of patent 14 years
(Cl. D44—29)



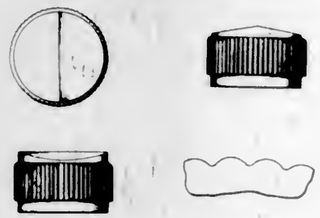
The ornamental design for an icicle highball stirrer and cocktail pick, substantially as shown and described.

167,617
PORTABLE CLOTHESLINE AND REEL UNIT
Charles J. Cohen, Bronx, N. Y.
Application March 2, 1951, Serial No. 14,365
Term of patent 3½ years
(Cl. D49—1)



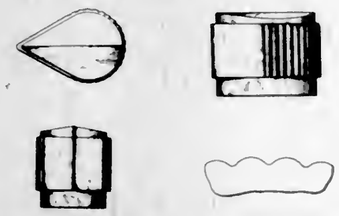
The ornamental design for a portable clothesline and reel unit, as shown.

167,618
CONTROL KNOB
Daniel W. Coran, Belmont, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application November 13, 1951, Serial No. 17,371
Term of patent 14 years
(Cl. D26—13)



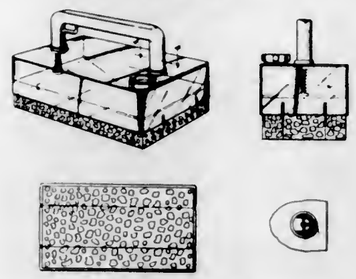
The ornamental design for a control knob, substantially as shown.

167,619
CONTROL KNOB
Daniel W. Coran, Belmont, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application November 13, 1951, Serial No. 17,372
Term of patent 14 years
(Cl. D26—13)



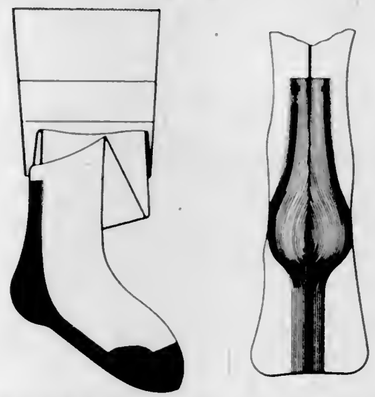
The ornamental design for a control knob, substantially as shown.

167,620
RESERVOIR SPONGE
Pauline Mae Cullison, San Francisco, Calif.
Application November 17, 1950, Serial No. 13,037
Term of patent 14 years
(Cl. D9—2)



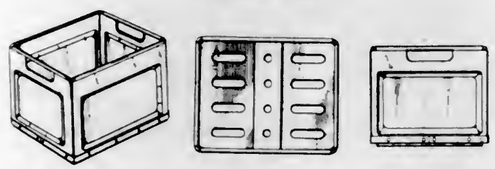
The ornamental design for a reservoir sponge, as shown.

167,621
LADY'S STOCKING
Kurt W. Dippmann, Valdese, N. C., assignor to Francis-Louise Full Fashion Mills, Inc., Valdese, N. C., a corporation of North Carolina
Application March 18, 1952, Serial No. 18,942
Term of patent 14 years
(Cl. D47—7)



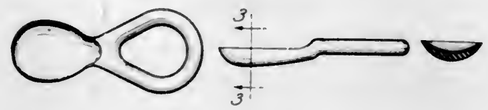
The ornamental design for a lady's stocking, substantially as shown.

167,622
BOTTLE CASE
Albert Dale Erickson, Des Moines, Iowa, assignor to C. E. Erickson Company, Inc., Des Moines, Iowa, a corporation of Iowa
Application August 4, 1951, Serial No. 16,156
Term of patent 14 years
(Cl. D58—12)



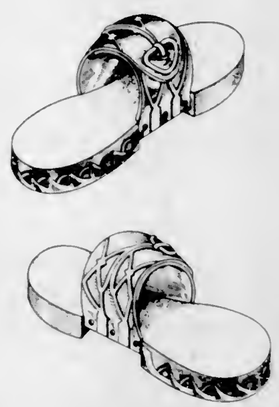
The ornamental design for a bottle case, substantially as shown.

167,623
INFANT'S SPOON
Norman C. Eue, Shakopee, Minn.
Application March 17, 1951, Serial No. 14,531
Term of patent 14 years
(Cl. D44—29)



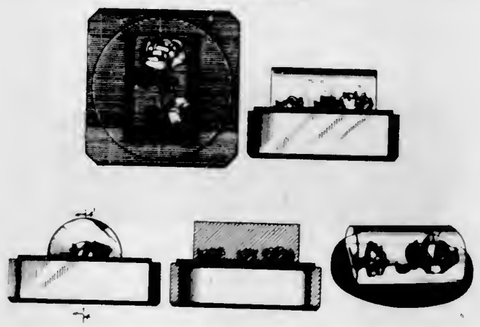
The ornamental design for an infant's spoon, as shown.

167,624
SANDAL
John F. Feeks, Los Angeles, Calif.
Application June 21, 1952, Serial No. 20,306
Term of patent 14 years
(Cl. D7—7)



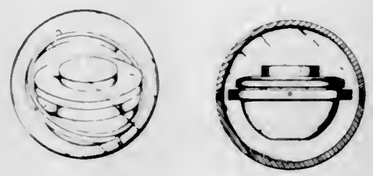
The ornamental design for a sandal, substantially as shown.

167,625
POWDER BOX OR THE LIKE
Arnold E. Fischel, Brooklyn, N. Y.
Application January 10, 1952, Serial No. 17,998
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a powder box or the like, as shown.

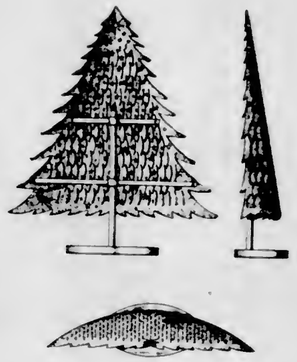
167,626
COMBINED BOTTLE AND HOLDER
Paolo Garretto, Paris, France
Application September 9, 1950, Serial No. 12,113
Term of patent 14 years
(Cl. D58—8)



The ornamental design for a combined bottle and holder, as shown.

167,627
CARD DISPLAY STAND
Theodore A. Hartman, Monroe, Wis.
Application May 2, 1951, Serial No. 15,041
Term of patent 14 years
(Cl. D80—9)





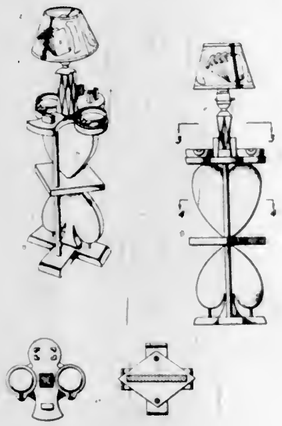
The ornamental design for a card display stand, substantially as shown.

167,628
FRAME OF A VULCANIZING MACHINE
Sidney John Herbert, Hayes End, England, assignor to Stenor Limited, Richmond, England
Application June 2, 1952, Serial No. 19,995
In Great Britain January 15, 1952
Term of patent 14 years
(Cl. D81—1)



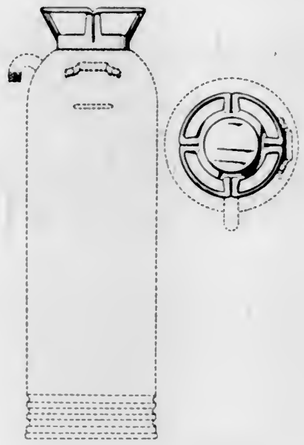
The ornamental design for a frame of a vulcanizing machine, as shown.

167,629
COMBINED LAMP AND STAND
Felix N. Hollander, Coeur d'Alene, Idaho
Application May 27, 1952, Serial No. 19,907
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a combined lamp and stand, as shown.

167,630
FIRE EXTINGUISHER
Charles K. Huthsing, Los Angeles, Calif., assignor to The General Pacific Corporation, Los Angeles, Calif., a corporation of California
Application March 2, 1951, Serial No. 14,363
Term of patent 14 years
(Cl. D16—2)



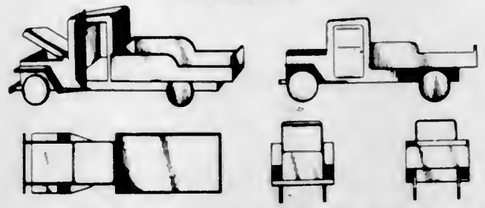
The ornamental design for a fire extinguisher, substantially as shown and described.

167,631
BRASSIÈRE
Mathias Imershein, New York, N. Y., assignor to Graceform-Camlin Corset Co., Inc., New York, N. Y., a corporation of New York
Application April 4, 1952, Serial No. 19,193
Term of patent 14 years
(Cl. D20—4)



The ornamental design for a brassière, as shown.

167,632
COMBINED CHILD'S BED, CLOTHES PRESS, AND CHEST
Claude Jackson, Cincinnati, Ohio, assignor to Stanley Adamchels, Springfield, Mass.
Application January 15, 1952, Serial No. 18,074
Term of patent 14 years
(Cl. D32—19)



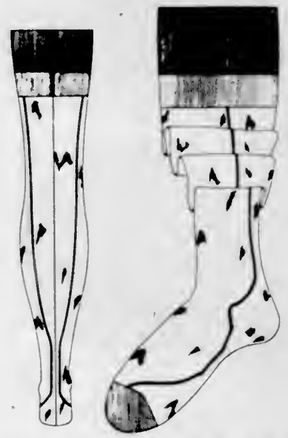
The ornamental design for a combined child's bed, clothes press, and chest, substantially as shown.

167,633
SALT DISPENSER OR SIMILAR ARTICLE
Mathias F. Jaksch, Jersey City, N. J.
Application January 28, 1952, Serial No. 18,267
Term of patent 14 years
(Cl. D44—22)



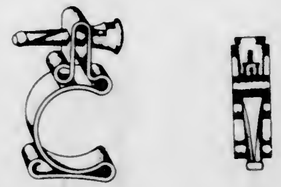
The ornamental design for a salt dispenser or similar article, substantially as shown and described.

167,634
LADY'S STOCKING
Nathaniel Judson, New York, N. Y., assignor to Mojud Hosiery Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application August 14, 1951, Serial No. 16,270
Term of patent 14 years
(Cl. D47—7)



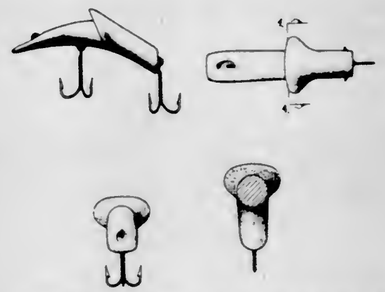
The ornamental design for a lady's stocking, as shown.

167,635
COMBINED CIGARETTE STAND AND HOLDER
Alfred C. Kather, San Francisco, Calif.
Application April 6, 1951, Serial No. 14,724
Term of patent 3½ years
(Cl. D85—8)



The ornamental design for a combined cigarette stand and holder, as shown.

167,636
ARTIFICIAL FISHING BAIT
Joe Kautzky, Fort Dodge, Iowa
Application June 27, 1952, Serial No. 20,377
Term of patent 14 years
(Cl. D31—4)



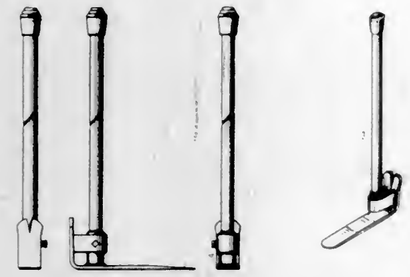
The ornamental design for an artificial fishing bait, substantially as shown.

167,637
BOTTLE
Harold K. Knight, Knox, Pa., assignor to Knox Glass Associates, Inc., Knox, Pa., a corporation of Pennsylvania
Application November 5, 1951, Serial No. 17,287
Term of patent 7 years
(Cl. D58—6)



The ornamental design for a bottle, substantially as shown.

167,638
WRECKING BAR
Robert E. Lee, North Branch, Minn.
Application July 7, 1950, Serial No. 11,001
Term of patent 7 years
(Cl. D54—13)



The ornamental design for a wrecking bar, as shown.

167,639
STOCKING
Cyril W. Livingston, New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware
Application March 29, 1952, Serial No. 19,105
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown.

167,640
STOCKING
Cyril W. Livingston, New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware
Application March 29, 1952, Serial No. 19,106
Term of patent 14 years
(Cl. D47—7)



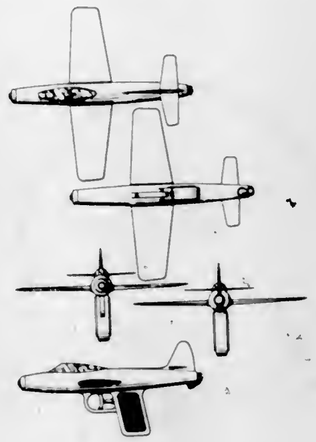
The ornamental design for a stocking, substantially as shown.

167,641
STOCKING
Cyril W. Livingston, New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware
Application March 29, 1952, Serial No. 19,107
Term of patent 14 years
(Cl. D47—7)



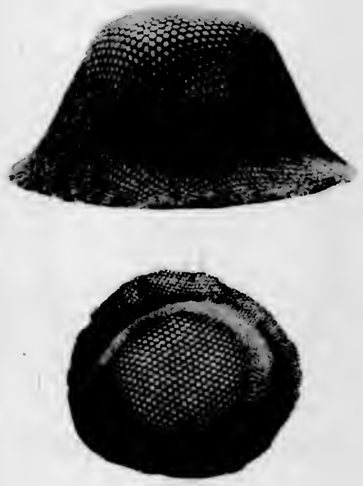
The ornamental design for a stocking, substantially as shown.

167,642
TOY GUN
Louis Marx, New York, N. Y.
Application September 23, 1950, Serial No. 12,327
Term of patent 7 years
(Cl. D34—15)



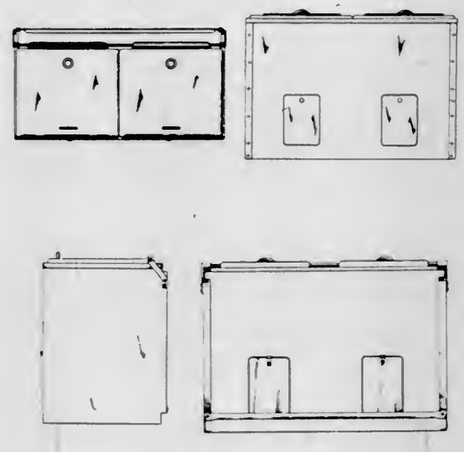
The ornamental design for a toy gun, substantially as shown.

167,643
FELT HAT BODY OR SIMILAR ARTICLE
John D. Mohn, Robesonia, Pa., assignor to Mohn Brothers Company, Incorporated, Reading, Pa., a corporation of Pennsylvania
Application December 21, 1951, Serial No. 17,794
Term of patent 7 years
(Cl. D3—13)



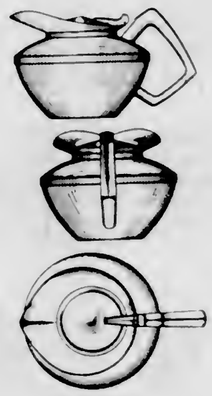
The ornamental design for a felt hat body or similar article, substantially as shown and described.

167,644
LAUNDRY TUB CABINET
Bernard E. Mustee, Cleveland, Ohio
Application July 10, 1951, Serial No. 15,817
Term of patent 14 years
(Cl. D49—1)



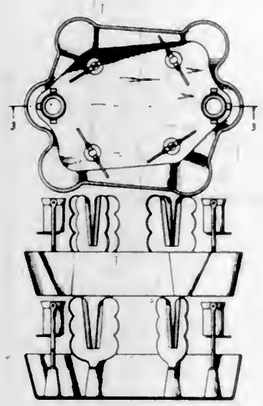
The ornamental design for a laundry tub cabinet, substantially as shown.

167,645
TEAPOT OR SIMILAR ARTICLE
Charles H. Newman, Northfield, and James L. Hvale, Chicago, Ill., assignors to Teamakers, Inc., Chicago, Ill., a corporation of Illinois
Application April 26, 1952, Serial No. 19,488
Term of patent 14 years
(Cl. D44—25)



The ornamental design for a teapot or similar article, as shown.

167,646
SMOKER'S ACCESSORY
Donald J. O'Connor, East Hartford, Conn.
Application June 14, 1952, Serial No. 20,202
Term of patent 14 years
(Cl. D85—2)



The ornamental design for a smoker's accessory, as shown.

167,647
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,135
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

167,648
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,136
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

167,649
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,137
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

167,650
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,138
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

167,651
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,139
Term of patent 7 years
(Cl. D45—16)



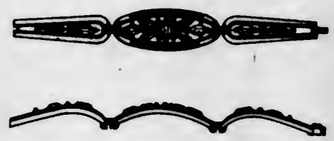
The ornamental design for a necklace or the like, substantially as shown and described.

167,652
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,144
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

167,653
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 14, 1952, Serial No. 20,200
Term of patent 7 years
(Cl. D45—4)



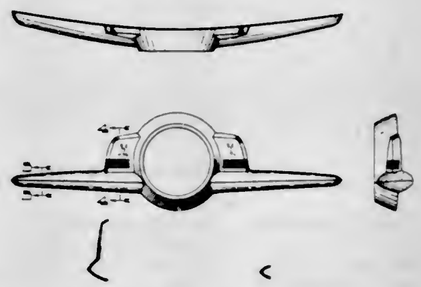
The ornamental design for a bracelet or the like, substantially as shown.

167,654
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 14, 1952, Serial No. 20,201
Term of patent 7 years
(Cl. D45—4)



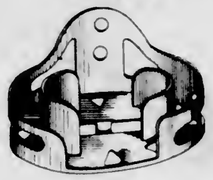
The ornamental design for a bracelet or the like, substantially as shown.

167,655
ORNAMENT FOR AN AUTOMOBILE HOOD
Harold W. Pilkey, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 11, 1952, Serial No. 20,119
Term of patent 7 years
(Cl. D14—18)



The ornamental design for an ornament for an automobile hood, substantially as shown and described.

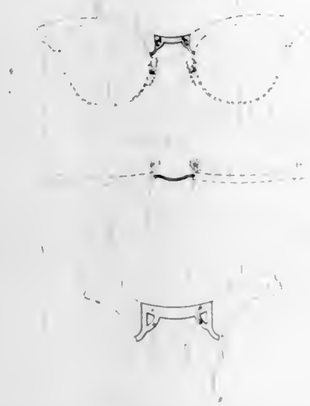
167,656
WATCH HOLDING RACK
Delmar M. Roeder, Washington, D. C.
Application April 29, 1952, Serial No. 19,514
Term of patent 3½ years
(Cl. D33—3)





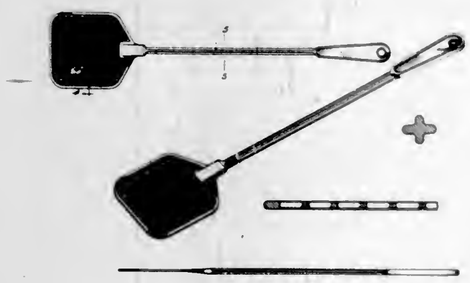
The ornamental design for a watch holding rack, as shown.

167,657
BRIDGE FOR OPHTHALMIC MOUNTINGS
John J. Rohrbach, Rochester, N. Y., assignor to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York
Application April 12, 1952, Serial No. 19,299
Term of patent 14 years
(Cl. D57—1)



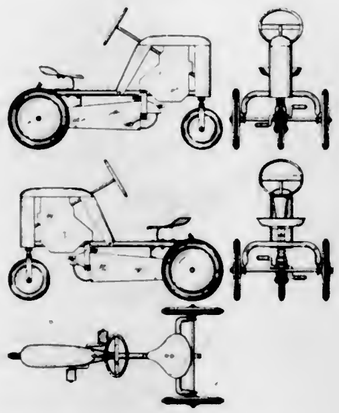
The ornamental design for a bridge for ophthalmic mountings, substantially as shown, and described.

167,658
FLY SWATTER OR SIMILAR ARTICLE
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application May 2, 1952, Serial No. 19,561
Term of patent 14 years
(Cl. D31—3)



The ornamental design for a fly swatter or similar article, substantially as shown.

167,659
CHILD'S VEHICLE
Joseph E. Scanland, Des Moines, Iowa., assignor to New Monarch Machine & Stamping Company, Des Moines, Iowa, a corporation
Application February 1, 1950, Serial No. 7,618
Term of patent 14 years
(Cl. D34—15)



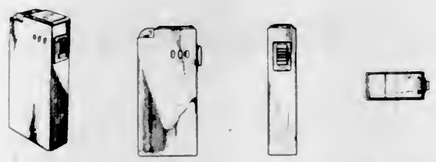
The ornamental design for a child's vehicle, substantially as shown.

167,660
CHRISTMAS ORNAMENT
Milton M. Schrager, Far Rockaway, N. Y.
Application September 27, 1951, Serial No. 16,762
Term of patent 7 years
(Cl. D29—1)



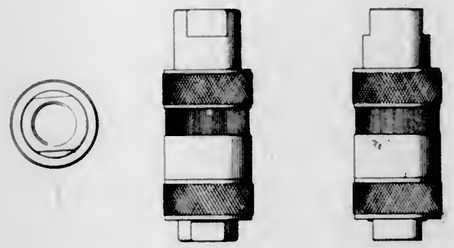
The ornamental design for a Christmas ornament, substantially as shown.

167,661
CIGARETTE LIGHTER
Herman G. Treiss, Jr., Brooklyn, N. Y., assignor to American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia
Application October 23, 1950, Serial No. 12,660
Term of patent 14 years
(Cl. D48—27)



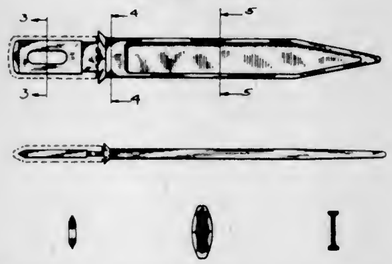
The ornamental design for a cigarette lighter, as shown.

167,662
SEPARABLE COUPLING FOR HYDRAULIC LINES
Raymond M. Ulrich, Roanoke, Ill., assignor to Ulrich Foundation, Inc., a corporation of Delaware
Application March 29, 1951, Serial No. 14,656
Term of patent 7 years
(Cl. D91—3)



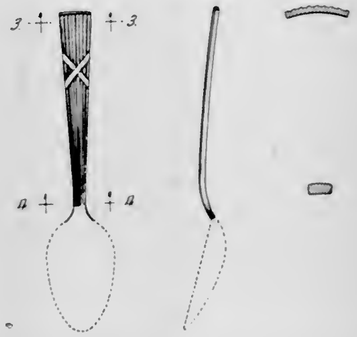
The ornamental design for a separable coupling for hydraulic lines, as shown.

167,663
HAIR DYE APPLICATOR
Joseph A. Voss, Denver, Colo., assignor to Gertrude S. Tenderich, Denver, Colo.
Application May 23, 1951, Serial No. 15,286
Term of patent 3½ years
(Cl. D86—10)



The ornamental design for a hair dye applicator, as shown.

167,664
SPOON OR SIMILAR ARTICLE
Franz Wagner, Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application May 17, 1951, Serial No. 15,206
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a spoon or similar article, as shown and described.

167,665
LADY'S SANDAL OR SIMILAR ARTICLE
Robert T. Wiseman, Canton, Ohio
Application March 22, 1951, Serial No. 14,593
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a lady's sandal or similar article, substantially as shown.

Official Gazette

UNITED STATES PATENT OFFICE

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Patents expiring: Patent Numbers 2,013,641 to 2,014,363, inclusive, issued September 10, 1935, expire September 10, 1952

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Disposable, ready-to-use unit for the collection of blood. Serial No. 624,579, Sept. 9. Class 44.

Aerocrafters, The: *See*—
Williamson, Fred E.

Aircraft-Marine Products Inc., Harrisburg, Pa. Insulated electrical connections and leads. Serial No. 613,551, Sept. 9. Class 21.

Allied Chemical & Dye Corporation, New York, N. Y. Synthetic organic sulfonate detergent compositions. Serial No. 578,246, Sept. 9. Class 52.

American Chemical Paint Company, Ambler, Pa. Chemical preparations. Serial Nos. 628,383–7, Sept. 9. Class 6.

American Cyanamid Company, New York, N. Y. Rosin size. Serial No. 628,605, Sept. 9. Class 6.

American Maize-Products Company, New York, N. Y. Starch treated to facilitate the action of enzymes, Serial No. 611,676, Sept. 9. Class 6.

Amity Leather Products Co., West Bend, Wis. Combination pocket secretary and memorandum book. Serial No. 624,770, Sept. 9. Class 3.

Anaconda Wire and Cable Company, New York, N. Y. Electric wires. Serial No. 612,480, Sept. 9. Class 21.

Anderson, David & John, Limited, Bridgeton, Glasgow, Scotland. Piece goods. Serial No. 625,662, Sept. 9. Class 42.

Arctic Fisherman Company, Beaver Dam, Wis. Ice fishing tip ups. Serial No. 619,224, Sept. 9. Class 22.

Argarden Tweeds Limited, Edinburgh, Scotland. Tweed fabrics. Serial No. 601,186, Sept. 9. Class 42.

Augstein, S., & Co., Inc., New York, N. Y. Fabrics. Serial No. 599,220, Sept. 9. Class 42.

Ayerst, McKenna & Harrison Limited, Rouses Point and New York, N. Y. Hormone vitamin compound. Serial No. 624,673, Sept. 9. Class 18.

B & W Canning Company, Inc., Groveland, Fla. Canned citrus fruits and canned citrus juices. Serial No. 626,439, Sept. 9. Class 46.

Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie Aktiengesellschaft "In Auflösung"), Ludwigshafen-on-the-Rhein, Germany. Dyestuffs. Serial No. 618,433, Sept. 9. Class 6.

Baker Produce Co., assignee: *See*—
Pasco Growers Association.

Bankers Securities Corporation, doing business as Snellenburgs, Philadelphia, Pa. Sheets, pillow cases, pillow covers, etc. Serial No. 620,995, Sept. 9. Class 42.

Barrow, Hepburn & Gale Limited, London, England. Leather and skins. Serial No. 624,628, Sept. 9. Class 1.

Basic Foods, Inc., Union City, N. J., assignee of C. Michaelis. Icing in solid form for cakes and cookies. Serial No. 604,376, Sept. 9. Class 46.

Battle Creek Food Company, The, Battle Creek, Mich. Cereal food beverage. Serial No. 546,947, Sept. 9. Class 46.

Belf & Lustig, New York, N. Y. Hand and machine tools. Serial No. 615,752, Sept. 9. Class 23.

Bergman Knitting Mills, Philadelphia, Pa. Men's, women's, and children's sweaters and bathing suits. Serial No. 624,385, Sept. 9. Class 39.

Bernstein, S., Inc., Newark, N. J. Gas ranges, gas heaters, and gas stoves. Serial No. 624,220, Sept. 9. Class 34.

Blackhawk Industries, Dubuque, Iowa. Electrical installation fittings. Serial No. 621,806, Sept. 9. Class 21.

Botany Mills, Inc., Passaic, N. J. Piece goods. Serial No. 628,842, Sept. 9. Class 42.

Boyajian, Alfred Z., doing business as Foldmaster Company, Farmingdale, N. Y. Collapsible baby chairs. Serial No. 603,661, Sept. 9. Class 32.

Brewster Finishing Co., Inc., Paterson, N. J. Applying a resin finish to textile fabrics. Serial No. 623,746, Sept. 9. Class 106.

Brown & Bigelow, St. Paul, Minn. Billfolds, key cases, portfolios, etc. Serial No. 616,623, Sept. 9. Class 3.

Brown Laboratories, Inc., Philadelphia, Pa. Detergent. Serial No. 607,891, Sept. 9. Class 52.

Bubble-O-Bill Company: *See*—
Corcoran, Robert J.

Bubble-O-Bill Corporation, assignee: *See*—
Corcoran, Robert J.

Burgess Battery Company, Freeport, Ill. Electric flashlights. Serial No. 618,730, Sept. 9. Class 21.

Byron, Jackson, Co., Los Angeles, Calif. Well tools. Serial No. 590,438, Sept. 9. Class 23.

California Prune and Apricot Growers Association, San Jose, Calif. Dried fruits. Serial No. 618,024, Sept. 9. Class 46.

Campbell, Callie E., doing business as Tryon Garment Company, Tryon, N. C. Ladies' sanitary belts and protectors. Serial No. 625,331, Sept. 9. Class 44.

Carlton Products Co.: *See*—
Food, Incorporated.

Chester Chemical Company: *See*—
Irving, Chester C.

Cigogne, Inc., New York, N. Y. Men's toiletries. Serial No. 619,009, Sept. 9. Class 51.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Perfumes and toilet preparations. Serial No. 605,993, Sept. 9. Class 51.

Clarostat Mfg. Co., Inc., Dover, N. H. Fixed resistors. Serial No. 622,772, Sept. 9. Class 21.

Cleano Products Co., The: *See*—
Kravagna, Cut.

Cleveland Gypsum Company, The, Cleveland, Ohio. Expanded igneous earthy material. Serial No. 595,943, Sept. 9. Class 1.

Colorado Milling & Elevator Co., The, Denver, Colo., and elsewhere, doing business under the style name of Monte Vista Flour Mills, Monte Vista, Colo. Wheat flour. Serial No. 554,950, Sept. 9. Class 46.

Columbian Cutlery Company, Reading, Pa. Sheep shears, hedge shears, grass shears, etc. Serial No. 614,389, Sept. 9. Class 23.

Comanche Belle Enterprises: *See*—
Thomas, Charles.

Coralite Dental Products Company, Chicago, Ill. Dental materials. Serial No. 622,991, Sept. 9. Class 44.

Corcoran, Robert J., doing business as Bubble-O-Bill Company, Beverly Hills, assignor to Bubble-O-Bill Corporation, Los Angeles, Calif. Corn product foodstuffs. Serial No. 610,261, Sept. 9. Class 46.

Curtis, John W., Topeka, Kans. Waterless soap. Serial No. 616,949, Sept. 9. Class 52.

Dealers Refining Company: *See*—
Southwest Grease & Oil Co., Inc.

Dennisons of Glens Falls, Glens Falls, N. Y. Boys' and girls' underwear. Serial No. 611,126, Sept. 9. Class 39.

Dexter Woolen Corp., New York, N. Y. Woolen piece goods. Serial No. 619,875, Sept. 9. Class 42.

Dick, A. B., Company, Chicago, Ill. Mimeographs and parts thereof. Serial No. 582,215, Sept. 9. Class 23.

Dick, A. B., Company, Chicago, Ill. Folding machines. Serial No. 614,541, Sept. 9. Class 23.

Drew, E. F. & Co., Inc., New York, N. Y. Oleomargarine. Serial No. 610,314, Sept. 9. Class 46.

Ellison & Spring, Inc., New York, N. Y. Textile table nankins. Serial No. 621,878, Sept. 9. Class 42.

Empire Box Corporation, Garfield, N. J. Cardboard cartons and boxes. Serial No. 618,696, Sept 9. Class 2.

Empire Case Goods, Jamestown, N. Y. Bedroom furniture. Serial No. 570,700, Sept. 9. Class 32.

Enterprise Brewing Company, Fall River, Mass. Beer. Serial No. 585,786, Sept. 9. Class 48.

Erstein, J. H., & Bro., Inc., New York, N. Y. Velvet ribbon. Serial No. 624,191, Sept. 9. Class 42.

Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Mineral oil. Serial No. 624,682, Sept. 9. Class 18.

Euclid Candy Co. of California, Inc., The, San Francisco, Calif. Candy bars. Serial No. 618,110, Sept. 9. Class 46.

Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Resinous adhesives. Serial No. 629,658, Sept. 9. Class 5.

Ex-Cel-Cis, Inc., also doing business as Jenny-Lynn Distributing Company, Salt Lake City, Utah. Skin perfume. Serial No. 616,163, Sept. 9. Class 51.

Exclusive Import Company, Inc., Chicago, Ill. Perfumes, perfume essences and toilet water. Serial No. 618,540, Sept. 9. Class 51.

F. de Vicente y Compañía, S. R. C., Madrid, Spain. Medicine. Serial No. 611,602, Sept. 9. Class 18.

Federated Department Stores, Inc., Cincinnati, Ohio. Handbags, trunks, foot lockers, etc. Serial No. 624,819, Sept. 9. Class 3.

Femelle Laboratory, The: *See*—
Halm, C. A.

Field Abrasive Specialty Mfg. Co.: *See*—
Field, Albert.

Field, Albert, doing business under the name of Field Abrasive Specialty Mfg. Co., Dayton, Ohio. Flexible abrasive rolls. Serial No. 592,560, Sept. 9. Class 4.

Fischel, Arnold E., doing business as Harbud Associates, Brooklyn, N. Y. Empty perfume atomizers. Serial No. 625,008, Sept. 9. Class 44.

Foldmaster Company: *See*—
Boyajian, Alfred Z.

Food, Incorporated, doing business as Carlton Products Co., Cambridge, Mass. Kelp tablets. Serial No. 607,750, Sept. 9. Class 18.

Foto Fashions, Newark, N. J. Women's, misses' and girls' dresses, playsuits, pinafores, etc. Serial No. 554,482, Sept. 9. Class 39.

Friedman, Bert Jay, Santa Monica, Calif. Sun tan lotion. Serial No. 613,890, Sept. 9. Class 51.

Gardner Mills, The: *See*—
Van Dusen Harrington Co.

General Tire & Rubber Company, The, Akron, Ohio. Tube repair kit, combination tube repair gum used to repair tire tubes, etc. Serial No. 572,896, Sept. 9. Class 35.
Gentner Tackle Co., Garfield, N. J. Artificial fishing lures. Serial No. 616,288, Sept. 9. Class 22.
Genuine Parts Company, Atlanta, Ga. Rebuilt automotive armatures, starters and generators. Serial No. 624,943, Sept. 9. Class 21.
Germicidal Products Company: *See*—
Roth, John P.
Gilton Manufacturing Corporation, Brooklyn, N. Y. Tubular chairs, stools, portable towel racks, etc. Serial No. 584,118, Sept. 9. Class 32.
Glide-X Chemical Company: *See*—
Lipsez, Avidon.
Globe Machine Company, Philadelphia, Pa. Sewing machine heads. Serial No. 606,423, Sept. 9. Class 23.
Godchaux Sugars, Inc., New Orleans, La. Sterilized litter for poultry. Serial No. 617,663, Sept. 9. Class 1.
Granitize Products Company: *See*—
Groves, Harold L.
Gray's Carpets & Textiles Ltd., Springwell Mill, Batley, and London, England. Textile fabrics. Serial No. 613,635, Sept. 9. Class 42.
Grisel, Ivan Victor, Canton of Geneva, Switzerland. Liquid nail polish remover. Serial No. 601,672, Sept. 9. Class 51.
Groves, Harold L., doing business as Granitize Products Company, South Gate, Calif. Paint cleaner. Serial No. 611,696, Sept. 9. Class 52.
Hall, Maenard D., doing business as Hi-Lustre Products Co., Los Angeles, Calif. Customized automobile glazing wax. Serial No. 618,928, Sept. 9. Class 4.
Halm, C. A., doing business as The Femelle Laboratory, Glendale, Calif. Cleansing and deodorizing agent. Serial No. 580,479, Sept. 9. Class 51.
Hampden Candy & Tobacco Company: *See*—
Meltzer, Peter.
Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Food colors, freezing mix, fudge and frosting mix, etc. Serial No. 619,084, Sept. 9. Class 46.
Harbud Associates: *See*—
Fischel, Arnold E.
Hark Pharmacal Co., New York, N. Y. Medical and pharmaceutical ointment. Serial No. 614,144, Sept. 9. Class 18.
Harrower Laboratory, Inc., The, Jersey City, N. J. Vial designed to facilitate the preparation of solutions and/or suspensions for parenteral administration. Serial No. 612,259, Sept. 9. Class 44.
Haverstick Corporation, St. Louis, Mo. Antiseptic solution. Serial No. 615,178, Sept. 9. Class 18.
Heinemann Electric Company, Trenton, N. J. Time delay relay mechanisms. Serial No. 621,823, Sept. 9. Class 21.
Helme, George W., Company, New York, N. Y. Snuff. Serial No. 562,047, Sept. 9. Class 17.
Helme, George W., Company, New York, N. Y. Snuff. Serial No. 562,049, Sept. 9. Class 17.
Herold Manufacturing Co., Not Inc., Chicago, Ill. Electric razors. Serial No. 619,197, Sept. 9. Class 23.
Hewlett-Packard Company, Palo Alto, Calif. Electrical apparatus namely audio signal generators, square wave generators, etc. Serial No. 595,783, Sept 9. Class 26.
Hill, Amilee, doing business as Madam A. Hill, Chicago, Ill., and Gary, Ind. Hair pomade. Serial No. 617,992, Sept. 9. Class 51.
Hill, Madam A.: *See*—
Hill, Amilee.
Hi-Lustre Products Co.: *See*—
Hall, Maenard D.
Hird, William, Limited, Wyke, England. Textile piece goods. Serial No. 615,492, Sept. 9. Class 42.
Holmes Packing Corporation, Eastport, Maine. Canned fish. Serial No. 626,167, Sept. 9. Class 46.
Hospital Equipment Corporation, New York, N. Y. Examination and office gowns, caps, aprons, etc. Serial No. 606,778, Sept. 9. Class 39.
Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand-operated compression sprayers. Serial No. 615,277, Sept. 9. Class 23.
Humberto Machado y Compania, Habana, Cuba, assignor to Tarmac Products, Inc., New York, N. Y. Medicinal preparation. Serial No. 571,490, Sept. 9. Class 18.
Hyx Cleaner Company, Dallas, Tex. Preparation used as a detergent and as a cleaner. Serial No. 624,033, Sept. 9. Class 52.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. Serial No. 618,637, Sept. 9. Class 39.
Irving, Chester C., doing business as Chester Chemical Company, St. Petersburg Beach, Fla. Mildew retardant. Serial No. 621,718, Sept. 9. Class 6.
Jackson, Robert, & Company Limited, London, England. Tea. Serial No. 589,620, Sept. 9. Class 46.
Jacobson Fabrics, Inc., New York, N. Y. Rayon and silk piece goods. Serial No. 603,192, Sept. 9. Class 42.
Jenny-Lynn Distributing Company: *See*—
Ex-Cel-Cis, Inc.
Johnson, Gordon, Company, Kansas City, Mo. Poultry picking and eviscerating machines and parts thereof. Serial No. 615,778, Sept. 9. Class 23.
Johnston, John G., Culver City, Calif. Mufflers and silencers. Serial No. 585,731, Sept. 9. Class 23.
K-B Products Corporation, Catskill, N. Y. Canned mushrooms. Serial No. 592,321, Sept. 9. Class 46.
K. L. G. Sparking Plugs Limited, London, England. Spark plugs and parts thereof. Serial No. 615,780, Sept. 9. Class 21.
Kaye-Halbert Corporation, Culver City, Calif. Television receiving sets. Serial No. 618,197, Sept. 9. Class 21.
Kent, G. B., & Sons Limited, London, England. Toothbrushes. Serial No. 619,023, Sept. 9. Class 29.
Knowles, James H., doing business as James H. Knowles & Associated Breeders, Centralia, Wash. Poultry of marketable size, chicks, and hatching eggs. Serial No. 616,037, Sept. 9. Class 1.
Knowles, James H., & Associated Breeders: *See*—
Knowles, James H.
Kordol Corporation of America, New York, N. Y. Tablets for the relief of pains. Serial No. 625,279, Sept. 9. Class 18.
Kotake Company, Limited, Honolulu, Territory of Hawaii, Rice cake. Serial No. 610,278, Sept. 9. Class 46.
Koutsos Bros., San Francisco, Calif. Medicated ointment. Serial No. 624,492, Sept. 9. Class 18.
Kravagna, Cut, doing business as The Cleano Products Co., Los Angeles, Calif. Deodorizing cleaner and stain remover. Serial No. 518,609, Sept. 9. Class 52.
Kroeger, Ellwyn C., doing business under the name and style of Le Claire Manufacturing Co., Le Claire, Iowa. Power lawn mowers, power garden cultivators, etc. Serial No. 588,137, Sept. 9. Class 23.
Kruse, Marie, Nurseries: *See*—
Owen, James W.
Kuppenheimer, B., and Co, Inc., Chicago, Ill. Swatches of textile fabrics. Serial No. 615,226, Sept. 9. Class 42.
Lambert Company, The, doing business as John Hudson Moore Co., Jersey City, N. J., and New York, N. Y. Hexachlorophene. Serial No. 628,766, Sept. 9. Class 6.
Lane Company, Inc., The, Altavista, Va. Cedar chests. Serial No. 559,848, Sept. 9. Class 32
Lan-Lay Co., San Francisco, Calif. Medicinal preparation. Serial No. 504,850, Sept. 9. Class 8.
Leaf Brands, Inc., doing business under the name and style of Overland Candy Co., Chicago, Ill. Candy. Serial Nos. 621,271–2, Sept. 9. Class 46.
Le Claire Manufacturing Co.: *See*—
Kroeger, Ellwyn C.
Letford, William K., doing business as The Tryne Company, Sayville, N. Y. Facial cream, liquid cream deodorant, skin lotion, etc. Serial No. 612,172, Sept. 9. Class 51.
Lindsay Light & Chemical Company, West Chicago, Ill. Material for polishing lenses, mirrors, television tubes, etc. Serial No. 612,619, Sept. 9. Class 4.
Lipsez, Avidon, doing business under the name and style of Glide-X Chemical Company, Somerville, Mass. Liquid wax polish and cleaner compound. Serial No. 606,924, Sept. 9. Class 4.
Little Ted's Cookies, Chicago, Ill. Cookies. Serial No. 620,046, Sept. 9. Class 46.
Mahoney, Wm. J., trading and doing business under the name of The Stratosphere Mattress Service, Rapid City, S. Dak. Mattresses. Serial No. 613,078, Sept. 9. Class 32.
Maintenance Chemicals Manufacturing Company: *See*—
Roth, John P.
Maison Des Fleurs, New York, N. Y. Perfumes. Serial No. 597,405, Sept. 9. Class 51.
Makers of Kal, Inc., Los Angeles Calif. Fluorine, calcium, phosphorus and vitamin preparation. Serial No. 613,938, Sept. 9. Class 18.
Mar-Mak Rug Machinery Manufacturing Co.: *See*—
McKendree, Samuel M.
Martin, C. J., & Sons, Inc., Austin, Tex. Creosote dips, disinfectants, insecticides, etc. Serial No. 572,367, Sept. 9. Class 6.
Master Bronze Powder Company, Hammond, Ind. Protective coatings. Serial No. 592,771, Sept. 9. Class 16.
McKendree, Samuel M., doing business as Mar-Mak Rug Machinery Manufacturing Co., Danville, Ill. Dry cleaning machine. Serial No. 623,152, Sept. 9. Class 24.
McNeill & McNeill, Los Angeles, Calif. Cotton corduroy fabric. Serial No. 618,593, Sept. 9. Class 42.
McQuay, Inc., Minneapolis, Minn. Central-station air conditioning units. Serial No. 620,316, Sept. 9. Class 34.
Meltzer, Peter, doing business under the name and style of Hampden Candy & Tobacco Company, Springfield, Mass. Cigars. Serial No. 621,325, Sept. 9. Class 17.
Michaelis, Curt: *See*—
Basic Foods, Inc.
Micro-Lite Company, Inc., New York, N. Y. Toy novelty pin light. Serial No. 602,102, Sept. 9. Class 22.
Mine Safety Appliances Company, Pittsburgh, Pa. Automatically operated apparatus for producing artificial respiration. Serial No. 619,207, Sept. 9. Class 44.
Mite-E Co., Inc., Ogden, Utah. Sodium fluoride solution. Serial No. 608,075, Sept. 9. Class 18.
Monsanto Chemical Company, St. Louis, Mo. Resinous chemical compositions for use as adhesives. Serial No. 610,710, Sept. 9. Class 5.
Monsanto Chemical Company, St. Louis, Mo. Synthetic resin materials. Serial No. 624,892, Sept. 9. Class 1.
Monte Vista Flour Mills: *See*—
Colorado Milling & Elevator Co., The.

Moodus Net & Twine Inc., Moodus, Conn. Fish netting. Serial No. 623,805, Sept. 9. Class 42.
Moore, John Hudson, Co.: *See*—
Lambert Company, The.
Mueller, C. F., Company, Jersey City, N. J. Alimentary pastes. Serial No. 614,835, Sept. 9. Class 46.
National City Bank of New York, The, New York, N. Y. Books, bulletins, periodical publications, etc. Serial No. 606,786, Sept. 9. Class 38.
National Furniture Manufacturing Company, Inc., Evansville, Ind. Chairs, "standard" upholstered living room chairs, rocking chairs, etc. Serial No. 536,421, Sept. 9. Class 32.
National Tank Company, Tulsa, Okla. Equipment particularly adapted for use in oil and gas fields. Serial No. 616,116, Sept. 9. Class 23.
Nebel Knitting Company, Charlotte, N. C. Ladies' hosiery. Serial No. 607,822, Sept. 9. Class 39.
Neptune Specialties, Inc., Brooklyn, N. Y. Foul weather clothing. Serial No. 608,666, Sept. 9. Class 39.
Nestlé's Chocolate Company, Inc., New York, N. Y. Cookie mix. Serial Nos. 618,000–1, Sept. 9. Class 46.
No-Boil Fluid Chemical Company, Jamestown, N. Y. Washing compound. Serial No. 586,424, Sept. 9. Class 52.
Norda Essential Oil and Chemical Co., Inc., New York, N. Y. Natural floral perfumes, essential oils, finished colognes, etc. Serial No. 605,557, Sept. 9. Class 51.
Norgine Laboratories, Inc., New York, N. Y. Medicinal preparation. Serial No. 616,045, Sept. 9. Class 18.
Nu-Maid Hosiery Mills, Inc., Darby, Pa. Hosiery. Serial No. 594,059, Sept. 9. Class 39.
O-Cedar Corp'n, assignee: *See*—
Roth, John P.
Ohio Natural Casing and Supply Co., Newark, Ohio. Neutral sausage casings. Serial No. 613,018, Sept. 9. Class 2.
Omes Limited, London, England. Machines for producing metal forgings. Serial No. 616,046, Sept. 9. Class 23.
Original Vincent & Joseph, Inc., Philadelphia, Pa. Scissors. Serial No. 617,927, Sept. 9. Class 23.
Oshkosh B'Gosh, Inc., Oshkosh, Wis. Overalls, pants, coats, etc. Serial No. 616,507, Sept. 9. Class 39.
Overland Candy Co.: *See*—
Leaf Brands, Inc.
Owen, James W., doing business under the name Marie Kruse Nurseries, Bloomington, Ill. Plant bulbs. Serial No. 625,538, Sept. 9. Class 1.
Pacific Airmotive Corporation, Burbank, Calif. Servicing and maintenance tools and equipment. Serial No. 584,148, Sept. 9. Class 23.
Parodi Cigar Company of New York, Scranton, Pa. Cigars, cigarettes and smoking tobacco. Serial No. 608,892, Sept. 9. Class 17.
Pasco Growers Association, assignor to Baker Produce Co., Kennewick, Wash. Fresh vegetables, fresh cantaloupes, fresh deciduous fruits, etc. Serial No. 594,657, Sept. 9. Class 46.
Penick, S. B., & Company, New York, N. Y. Bulk special amorphous alkaloids. Serial No. 618,811, Sept. 9. Class 18.
Petroleum Heat and Power Company, Stamford, Conn., assignor to Pittston Oil Company, Inc., New York, N. Y. Electric blowers, electric fans, electric motors, etc. Serial No. 620,856, Sept. 9 Class 21.
Pfeiffer's Food Products, Inc., Buffalo, N. Y. Dressing for salads. Serial No. 611,718, Sept. 9. Class 46.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 624,423, Sept. 9. Class 18.
Pharmaceuticals, Inc., Newark, N. J. Tablets for the relief of functional menstrual pain and discomfort and body deodorant. Serial No. 625,079, Sept. 9. Class 18.
Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 595,413, Sept. 9. Class 18.
Pittston Oil Company, Inc., assignee: *See*—
Petroleum Heat and Power Company.
Prescolite Manufacturing Corporation, Berkeley, Calif. Electric lighting fixtures. Serial No. 611,810, Sept. 9. Class 21.
Princess Pat, Ltd., Chicago, Ill. Facial cream, skin tissue cream, muscle oil, etc. Serial No. 603,162, Sept. 9. Class 51.
Pullman Sales Corporation, Boston, Mass. Corrugated rubber hose. Serial No. 630,149, Sept. 9. Class 35.
Pure Drug and Chemical Corp., New York, N. Y. Preparation for the treatment of athlete's foot. Serial No. 621,287, Sept. 9. Class 18.
Pure Oil Company, The, Chicago, Ill. Kits containing a battery hydrometer and a battery filler. Serial No. 624,294, Sept. 9. Class 26.
Queen Charlotte Canners, Limited, Massett, Queen Charlotte Island, British Columbia, Canada. Fresh, frozen, and canned shell fish, canned salmon, etc. Serial No. 625,125, Sept. 9. Class 46.
Queen Charlotte Canners, Limited, Massett, Queen Charlotte Island, British Columbia, Canada. Fresh, frozen, and canned shell fish, canned salmon, etc. Serial No. 625,127–8, Sept. 9. Class 46.
Rassenfoss Bag Company, Glenview, Ill. Plastic garment storage bag. Serial No. 610,338, Sept. 9. Class 2.
Refrigerative Supply Inc., Seattle, Wash. Household refrigerators, home freezers, frozen food display cabinets, etc. Serial No. 610,029, Sept. 9. Class 31.
Rice-Stix, Inc., St. Louis, Mo. Luggage. Serial No. 617,127, Sept. 9. Class 3.
Ritchie Engr. Co., The: *See*—
Ritchie, John R., Jr.
Ritchie, John R., Jr., doing business as The Ritchie Engr. Co., Minneapolis, Minn. Hoses. Serial No. 599,590, Sept. 9. Class 35.
Ritter Company, Inc., Rochester, N. Y. Air compressors and pumps therefor. Serial No. 619,363, Sept. 9. Class 23.
Rival Manufacturing Company, Kansas City, Mo. Hand-operated food grinders. Serial No. 614,571, Sept. 9. Class 23.
Rolls Razor, Inc., New York, N. Y. Safety razors. Serial No. 591,049, Sept. 9. Class 23.
Roth, John P., doing business under the names of Germicidal Products Company and Maintenance Chemicals Manufacturing Company, assignor, to O-Cedar Corp'n, Chicago, Ill. Furniture polish, metal polish. Serial No. 611,147, Sept. 9. Class 4.
Rubensohn, William, Sydney, New South Wales, Australia. Effervescent medical tonic. Serial No. 598,043, Sept. 9. Class 18.
Rubinstein, Helena, Inc., New York, N. Y. Cologne, shaker talc, dusting powder, etc. Serial No. 602,338, Sept. 9. Class 51.
Rudds Prescription Chemists, Cleveland, Ohio. Medicinal dietary food supplement. Serial No. 610,762, Sept. 9. Class 18.
Rutgers Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 601,755, Sept. 9. Class 42.
Salsbury's, Dr., Laboratories, Charles City, Iowa. Veterinary preparations. Serial No. 608,188, Sept. 9. Class 18.
Salvajor Co., The, Kansas City, Mo. Empty bottle conveying and racking system. Serial No. 608,288, Sept. 9. Class 23.
Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical preparations. Serial No. 600,512, Sept. 9. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical products. Serial No. 627,965, Sept. 9. Class 18.
Schering Corporation, Bloomfield, N. J. Pharmecutical preparation. Serial No. 625,038–41, Sept. 9. Class 18.
Schieffelin & Co., New York, N. Y. Antispasmodic and antichlorinergic. Serial No. 626,538, Sept. 9. Class 18.
Schwarz Laboratories, Inc., New York, N. Y. Adenosine-5-phosphoric acid. Serial No. 583,055, Sept. 9. Class 18.
Schweizerische Werkzeug-Industriegesellschaft Gebr. Levailiant, Basel, Switzerland. Hand tools. Serial No. 594,731, Sept. 9. Class 23.
Scott, O. M., & Sons Company, Marysville, Ohio. Field, garden, lawn, and grass seeds. Serial No. 625,633, Sept. 9. Class 1.
Sears, Roebuck and Co., Chicago, Ill. Men's and young men's hats, dress shirts, neckties, etc. Serial No. 614,109, Sept. 9. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Fruit cake, buttered and salted popcorn, candy, etc. Serial No. 614,849, Sept. 9. Class 46.
Signal Oil Company, assignor to Standard Oil Company of California, doing bushiness as Signal Oil Company, Los Angeles, Calif. Cleaning solvent. Serial No. 614,728, Sept. 9. Class 52.
Silver Rich Corporation, Long Island City, N. Y. Game. Serial No. 623,164, Sept. 9. Class 22.
Sjöström, John E., Company, Philadelphia, Pa. School furniture, laboratory furniture, library furniture, etc. Serial No. 541,595, Sept. 9. Class 32.
Skinner, C. R.: *See*—
Skinner, Clifton R.
Skinner, Clifton R., doing business as a sole proprietorship known as C. R. Skinner, San Francisco, Calif. Photographic equipment. Serial No. 622,126, Sept. 9. Class 26.
Smith & Frank Company, New York, N. Y. Television receiving sets and radio receiving sets. Serial No. 619,214, Sept. 9. Class 21.
Smith, S., and Sons (England) Limited, London, England. Electric devices. Serial No. 605,769, Sept. 9. Class 21.
Snellenburgs: *See*—
Bankers Securities Corporation.
Snyder, Edna S., Chicago, Ill. Bed clothes. Serial No. 622,231, Sept. 9. Class 42.
Società Azionaria Primo Istituto Dietetico Italiano Rinaldo Rossi, Milan, Italy. Dietetic products. Serial No. 607,873, Sept. 9. Class 46.
Societe a Responsabilite Limitee Balenciaga, Paris, France. Perfumes. Serial No. 608,958, Sept. 9. Class 51.
Societe le Carbone Lorraine, Paris, France. Carbon thrust rings and other self-lubricating rings. Serial No. 618,990, Sept. 9. Class 23.
Société Nouvelle de Construction des Machines-Outils et d'Outillage, Procedes C W B, Paris, France. Electrical control systems. Serial No. 586,886, Sept. 9. Class 21.

Soltanoff, Rhoda, Brooklyn, N. Y. Mineral tablets. Serial No. 605,238, Sept. 9. Class 18.
Southwest Grease & Oil Co., Inc., also doing business under the name Dealers Refining Company, Wichita, Kans. Multi-purpose lubricant. Serial No. 614,908, Sept. 9. Class 15.
Spontane Mfg. Company, Atlanta, Ga. Descaling compounds. Serial No. 591,203, Sept. 9. Class 52.
Sporting Goods Publishing Company, The, St. Louis, Mo. Monthly publications. Serial No. 616,729, Sept. 9. Class 38.
Squibb, E. R., & Sons, New York, N. Y. Hormonal preparations. Serial No. 609,609, Sept. 9. Class 18.
Standard Cap and Seal Corporation, Chicago, Ill., now by change of name, Standard Packaging Corporation. Bottle closures. Serial No. 616,250, Sept. 9. Class 50.
Standard Oil Company of California, assignee: *See*—
Signal Oil Company.
Standard Packaging Corporation: *See*—
Standard Cap and Seal Corporation.
Stanger, Frank N., Erie, Pa. Cleaning sponge. Serial No. 598,332, Sept. 9. Class 52.
Sterling Drug Inc., New York, N. Y. Detergent baby bath preparation. Serial No. 621,534, Sept. 9. Class 52.
Strass-Einiger Mills, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 618,605, Sept. 9. Class 42.
Strass-Einiger Mills, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 618,607, Sept. 9. Class 42.
Stratosphere Mattress Service, The: *See*—
Mahoney, Wm. J.
Sunnyhill Aggregates Corporation, Pittsburgh, Pa. Granulated shale. Serial No. 624,573, Sept. 9. Class 1.
Swift & Company, Chicago, Ill. Cleanser. Serial No. 615,732, Sept. 9. Class 52.
Tabin-Picker & Co., Chicago, Ill. Women's and misses' dresses, aprons and suits. Serial No. 627,017, Sept. 9. Class 39.
Tablax Company, New York, N. Y. Non-medicinal jelly-like coating. Serial No. 619,902, Sept. 9. Class 18.
Tamminga Incorporated: *See*—
Wiz-Products, Inc.
Tarmac Products, Inc., assignees: *See*—
Humberto Machado y Compania.
Thomas, Charles, doing business as Comanche Belle Enterprises, Fort Worth, Tex. Cosmetics. Serial No. 611,816, Sept. 9. Class 51.
Tiedemann & McMorran, Inc., San Francisco, Calif. Canned fruits, canned berries, canned vegetables, etc. Serial No. 574,553, Sept. 9. Class 46.
Tryne Company, The: *See*—
Letford, William K.
Tryon Garment Company; *See*—
Campbell, Callie E.
Turpentine & Rosin Factors, Inc., Savannah, Ga. Mineral spirits thinner. Serial No. 612,186, Sept. 9. Class 6.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
United Crayon Co., Inc., Brooklyn, N. Y. Water color sets Serial No. 625,643, Sept. 9. Class 22.
United Elastic Corporation, Easthampton, Mass. Elastic fabrics. Serial No. 610,599, Sept. 9. Class 42.
United Implements, Inc., Lexington, Ohio. Farm implements. Serial No. 606,092, Sept. 9. Class 23.
United Manufacturing Company, San Francisco, Calif. Denim pants, denim jeans, and denim jackets. Serial No. 618,663, Sept. 9. Class 39.
U. S. Manufacturing Corporation, Decatur, Ill. Electric corp poppers. Serial No. 616,741, Sept. 9. Class 21.
Upjohn Company, The, Kalamazoo, Mich. Antibiotic for treatment of infectious diseases. Serial No. 625,050, Sept. 9. Class 18.
Van Dusen Harrington Co., doing business under the name The Gardner Mills, Minneapolis, Minn. Wheat flour. Serial No. 545,665, Sept. 9. Class 46.
Volker, William, & Company: *See*—
Volker, William, & Company of Missouri, Inc.
Volker, William, & Company of Missouri, Inc., doing business as William Volker & Company, Kansas City, Mo. Broadloom, velvet, hair, fiber and cotton rugs and carpeting. Serial No. 628,660, Sept. 9. Class 42.
Ward, Blenkinsop, & Company Limited, London, England. Seed dressings. Serial No. 622,420, Sept. 9. Class 6.
Wayne Knitting Mills, Fort Wayne, Ind. Women's hosiery. Serial No. 608,727, Sept. 9. Class 39.
Webb, Jervis B., Company, Detroit, Mich. Sub-floor conveyor installations. Serial No. 619,117, Sept. 9. Class 23.
Weico Company, The: *See*—
Weisbrot, Max A.
Weisbrot, Max A., doing business as The Weico Company, Chicago, Ill. Glass carafes. Serial No. 625,507–09, Sept. 9. Class 33.
West Bend Aluminum Co., West Bend, Wis. Baby bottle sterilizers. Serial No. 624,715, Sept. 9. Class 44.
West D'sinfecting Company, Long Island City, N. Y. Disinfectant. Serial No. 624,621, Sept. 9. Class 6.
Wheeler, Harry W., Charlottesville, Va. Ammoniated mouth wash and gargle. Serial No. 603,328, Sept. 9. Class 18.
Williamson, Fred E., doing business as The Aerocrafters, Chicago, Ill. Fuel injection apparatus. Serial No. 601,652, Sept. 9. Class 23.
Winter Garden Citrus Products Cooperative, Winter Garden, Fla. Concentrated orange juice. Serial No. 607,150, Sept. 9. Class 46.
Wiz-Products, Inc., Goshen, N. Y., by change of name from Tamminga Incorporated. Gaskets. Serial No. 623,811, Sept. 9. Class 35.
Woodruff Coal Company, Kalamazoo, Mich. Coal. Serial No. 625,648, Sept. 9. Class 1.
Worswick, Elizabeth B., Berkeley, Calif. Children's wear. Serial No. 615,735, Sept. 9. Class 39.
Wyeth Incorporated, Philadelphia, Pa. Penicillin-dihydrostreptomycin-bacitracin ointment. Serial No. 624,669, Sept. 9. Class 18.
Yantic Grain & Products Co., Norwich, Conn. Canned vegetables, canned fruits, canned fish, etc. Serial No. 571,376, Sept. 9. Class 46.
Zion Industries, Inc., Zion, Ill. Candy bars. Serial No. 571,308, Sept. 9. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Sulfa suspension. 563,899, Sept. 9; Serial No. 618,563, published May 13, 1952. Class 18.
Advertising Distributors of America, Inc., New York, N. Y. Advertising services. 563,949, Sept. 9; Serial No. 619,182, published June 17, 1952. Class 101.
Airplant Corp., New York, N. Y. Combined air-odor neutralizing wick and container. 563,915, Sept. 9; Serial No. 620,452, published June 17, 1952. Class 6.
Albro Packing Company, The, Springboro, Pa. Pickles and pickle relishes, canned peppers, etc. 563,910, Sept. 9; Serial No. 619 909, published June 17, 1952. Class 46.
Almark Handkerchief Co., Inc., assignor to Kleenchief Co. Inc., New York, N. Y. Handkerchiefs. 563,896, Sept. 9; Serial No. 618,331, published June 17, 1952. Class 39.
American Airlines, Inc., New York, N. Y. Air transportation of passengers. 563,945, Sept. 9; Serial No. 601,184, published June 17, 1952. Class 105.
American Bleached Goods Company, Inc., to American Bleached Goods Company, Inc., New York, N. Y. Cotton piece goods. 296,957, renewed Aug. 30, 1952. O. G. Sept. 9. Class 42.
American Cyanamid Company, New York, N. Y. Frothing agents. 563,926, Sept. 9; Serial No. 621,249, published June 10, 1952. Class 6.
American Optical Company, Southbridge, Mass. Instrument for exercising and treating the eyes. 294,123, renewed May 17, 1952. O. G. Sept. 9. Class 44.
American Pop Corn Company, Sioux City, Iowa. Pop corn. 298,361, renewed Oct. 25, 1952. O. G. Sept. 9. Class 46.
American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls, Elmira, and Glendale, N. Y., to Moore Business Forms, Inc., Niagara Falls, N. Y. Sales-books. 86,689, re-renewed May 28, 1952. O. G. Sept. 9. Class 37.
American Wringer Company, Inc., Woonsocket, R. I. Printing plates. 298,387, renewed Oct. 25, 1952. O. G. Sept. 9. Class 50.
Anderson, David & John, Limited, Glasgow, Scotland. Cotton, worsted, and woolen dress goods and shirtings. 87,403, re-renewed July 16, 1952. O. G. Sept. 9. Class 42.
Anglo-American Export Co. Limited, London, England. Fire-retardant paint and varnishes. 563,821, Sept. 9; Serial No. 607,838, published June 17, 1952. Class 16.
Aqua-Flor: *See*—
Helfrich, Jesse B.
Arechabala, Jose, S. A., Cardenas, Cuba. Refined sugar and centrifugal sugar, vinegar, etc. 296,951, renewed Aug. 30, 1952. O. G. Sept. 9. Class 46.
Armour and Company: *See*—
Chemische Fabrik Rhenania.
Armour and Company, Chicago, Ill. Adrenocorticotrophic composition. 563,816, Sept. 9; Serial No. 606,253, published June 3, 1952. Class 18.
Armstrong Paint & Varnish Works, Chicago, Ill. Ready-mixed paint, paste paint and semi-paste paint, varnishes, etc. 563,754–5, Sept. 9; Serial No. 556,054, published June 10, 1952. Class 16.
Associated Date Growers & Packers, Indio, Calif. Fresh dates. 563,790, Sept. 9; Serial No. 594,824, published Apr. 17, 1951. Class 46.
Association of Federal Communications Consulting Engineers, Washington, D. C. Consulting engineering services. 563,952, Sept. 9; Serial No. 578,560, published June 17, 1952. Class 100.
Atlantic Steel Company, Atlanta, Ga. Farm and poultry wire fence, hog and cattle wire fence, etc. 563,795, Sept. 9; Serial No. 596,320, published June 17, 1952. Class 13.

Atlas Mineral Products Company of Pennsylvania, The: *See*—
Atlas Mineral Products Company, The.
Atlas Mineral Products Company, The, to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Acid resisting bonding and lining materials. 296,554, renewed Aug. 9, 1952. O. G. Sept. 9. Class 12.
B. & R. Manufacturing Company: *See*—
Flex-O-Lite Manufacturing Corporation.
Bagatelle Publishing Co. Inc., New York, N. Y. Monthly magazine. 563,922, Sept. 9; Serial No. 621,125, published June 10, 1952. Class 38.
Barker Brothers Silver Company, Inc.: *See*—
Ellis Silver Company Inc.
Barthels Mfg. Co., New York, to Barthels Manufacturing Company, Inc., Glendale, N. Y. Braids, shoe-laces, galloons, etc. 86,690, re-renewed May 28, 1952. O. G. Sept. 9. Class 40.
Barthels Manufacturing Company, Inc.: *See*—
Barthels Mfg. Co.
Battrix Products, Chicago, Ill. Preparation in powder form for desulfating electric storage batteries. 563,929, Sept. 9; Serial No. 621,749, published June 17, 1952. Class 6.
Baylis Brothers Company, The, Cincinnati, Ohio. Children's dresses and blouses. 563,858, Sept. 9; Serial No. 614,036, published June 17, 1952. Class 39.
Benco Togs, Inc., New York, N. Y. Infants' and children's dresses. 563,974, Sept. 9; Serial No. 601,190. Class 39.
Bettoney, Harry, doing business as Cundy-Bettoney Co., Boston, to The Cundy-Bettoney Co., Inc., Hyde Park, Mass. Soprano clarinets, bass and alto clarinets, flutes, etc. 295,923, renewed July 19, 1952. O. G. Sept. 9. Class 36.
Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y. Detergent. 563,969, Sept. 9; Serial No. 595,869. Class 52.
Bigelow-Sanford Carpet Company, Inc., assignee: *See*—
Bigelow-Sanford Carpet Co., Inc.
Binney & Smith Company, New York, N. Y. Ink. 563,919, Sept. 9; Serial No. 620,798, published June 17, 1952. Class 11.
Blake, Moffitt & Towne, San Francisco, Calif. Pads. 563,756, Sept. 9; Serial No. 562,524, published May 20, 1952. Class 50.
Blanton Company, The, St. Louis, Mo. Blended vegetable oils. 563,812, Sept. 9; Serial No. 605,139, published May 13, 1952. Class 46.
Bluebird Dairy Products Corp., New York, N. Y. Cheese. 563,914, Sept. 9; Serial No. 620,391, published June 17, 1952. Class 46.
Bon Ami Company, The, assignee: *See*—
Tumbler, J. A., Laboratories, Inc.
Boonton Molding Company, Boonton, N. J. Molded plastic dinner table dishes. 563,763, Sept. 9; Serial No. 578,483, published June 17, 1952. Class 2.
Borax Consolidated, Limited, London, England, doing business as Pacific Coast Borax Co., Division of Borax Consolidated, Limited, Los Angeles, Calif. Weed control preparation. 563,920, Sept. 9; Serial No. 621,099, published June 10, 1952. Class 6.
Botany Mills, Inc., Passaic, N. J. Periodical. 563,921, Sept. 9; Serial No. 621,100, published June 10, 1952. Class 38.
Branigan Green & Company, Baltimore, Md. Men's, women's, and children's drawers, middy-blouses, pajamas, etc. 563,979, Sept. 9; Serial No. 609,432. Class 39.
Breck, John H., Inc., Springfield, Mass. Diaper rash ointment and liquid soap. 563,956, Sept. 9; Serial No. 549,702. Class 52.
Breck, John H., Inc., Springfield, Mass. Liquid hair cleansers, hair shampoos, and liquid soap shampoos. 563,965, Sept. 9; Serial No. 584,437. Class 52.
British Alkaloids Limited, London, England. Preparations for killing plant nematodes. 563,859, Sept. 9; Serial No. 614,037, published May 27, 1952. Class 6.
Brown & Brown: *See*—
Brown, Samuel.
Brown, Samuel, doing business as Brown & Brown, Mobile, Ala. Canvas products. 563,938, Sept. 9; Serial No. 622,970, published June 10, 1952. Class 50.
Bryton Chemical Co., Elizabeth, N. J. Sulfonates. 563,911, Sept. 9; Serial No. 620,194, published June 10, 1952. Class 6.
Buckman Laboratories, Inc., Memphis, Tenn. Pharmaceutical preparation. 563,884, Sept. 9; Serial No. 617,485, published May 20, 1952. Class 18.
Burgess Cellulose Company, Madison, Wis., to Burgess Cellulose Company, Freeport, Ill. Stereotype mats. 296,832, renewed Aug. 23, 1952. O. G. Sept. 9. Class 50.
Burlington Mills Corporation, assignee: *See*—
National Mallinson Fabrics Corporation.
Butler, B. B., Mfg. Co., Bellwood, Ill. Merchandise display racks. 563,975, Sept. 9; Serial No. 601,533. Class 32.
Buxton, Incorporated, Springfield, Mass. Key cases, purses, billfolds, etc. 563,985, Sept. 9; Serial No. 625,060. Class 3.
Caffe Espresso Inc., New York, N. Y. Coffee pots having a self-contained heating unit. 563,815, Sept. 9; Serial No. 606,136, published May 6, 1952. Class 34.
Calcium Carbonate Company, Chicago, Ill. Calcium carbonate. 563,788, Sept. 9; Serial No. 593,956, published May 13, 1952. Class 18.
California Fruit Products Co., Inc., to Ben R. Goltsman & Co., Montgomery, Ala. Wines. 331,947, Jan. 28, 1936. New certificate. O. G. Sept. 9. Class 47.
Carmer Barber Supply Co.: *See*—
Carmer, George.
Carmer, George, doing business as Carmer Barber Supply Co., Philadelphia, Pa. Shaving lotion. 563,968, Sept. 9; Serial No. 595,445. Class 51.
Carter, Marjorie H., Phoenix, Ariz. Fringed leather item of wearing apparel. 563,932, Sept. 9; Serial No. 622,140, published June 17, 1952. Class 39.
Caspe, Saul, New York, N. Y. Medicament. 563,824, Sept. 9; Serial No. 608,299, published May 13, 1952. Class 18.
Chapman Chemical Company, Memphis, Tenn. Wood preservatives, rodenticides, insecticides, etc. 563,954, Sept. 9; Serial No. 515,934. Class 6.
Chemische Fabrik Rhenania, Aachen, Germany, to Armour and Company, Chicago, Ill. Medical preparations. 37,744, re-renewed Feb. 4, 1952. O. G. Sept. 9. Class 18.
Ciba Limited, Basel, Switzerland. Chemotherapeutic agent. 563,822, Sept. 9; Serial No. 607,941, published May 13, 1952. Class 18.
Clarke's Clothiers, Tulsa, Okla. Men's, women's, and children's sport shirts, sport jackets, slacks, etc. 563,841, Sept. 9; Serial No. 611,685, published June 17, 1952. Class 39.
Clayton & Lambert Manufacturing Company, Louisville, Ky. Liquid-fuel and gas-fired water heaters. 563,867, Sept. 9; Serial No. 615,107, published May 13, 1952. Class 34.
Click Chemical Corporation, Mount Vernon, N. Y. Moth-repellent crystals and pressed blocks. 563,913, Sept. 9; Serial No. 620,311, published June 17, 1952. Class 6.
Close-Up, Inc., New York, N. Y., Chicago, Ill., Los Angeles, Calif., and St. Louis, Mo. Magazine. 563,923, Sept. 9; Serial No. 621,133, published June 10, 1952. Class 38.
Clover Farm Stores Corporation, Cleveland, Ohio. Self-polishing floor wax, inside and outside ready mixed paints, etc. 563,753, Sept. 9; Serial No. 552,941, published June 10, 1952. Class 4.
Cohn & Rosenberger, Inc., to Coro, Inc., New York, N. Y. Strings of pearls, necklaces, bracelets, etc. 293,935, renewed May 10, 1952. O. G. Sept. 9. Class 28.
Cole Chemical Company, St. Louis, Mo. Disinfectants, deodorants, and fungicides. 563,761, Sept. 9; Serial No. 577,870, published June 17, 1952. Class 6.
Colonial Sugar Refining Company, Limited, The, Sydney, New South Wales, Australia. Canned pineapple. 563,783–4, Sept. 9; Serial Nos. 592,252–3, published June 10, 1952. Class 46.
Colonial Sugar Refining Company, Limited, The, Sydney, New South Wales, Australia. Canned pineapple juice. 563,785, Sept. 9; Serial No. 592,254, published June 10, 1952. Class 46.
Colonial Sugar Refining Company, Limited, The, Sydney, New South Wales, Australia. Canned pineapple. 563,786, Sept. 9; Serial No. 592,255, published June 10, 1952. Class 46.
Cone Export and Commission Co., Inc., New York, N. Y. Cotton piece goods. 563,942, Sept. 9; Serial No. 625,002, published June 17, 1952. Class 42.
Continental Casualty Company, Chicago, Ill. Underwriting of accident, sickness, hospitalization, medical, and surgery insurance. 563,948, Sept. 9; Serial No. 613,975, published June 17, 1952. Class 102.
Convoy, Incorporated, Canton, Ohio. Shipping boxes and tote boxes. 563,804, Sept. 9; Serial No. 601,819, published June 17, 1952. Class 2.
Coro, Inc.: *See*—
Cohn & Rosenberger, Inc.
Culligan Zeolite Company, Northbrook, Ill. Chemical compound. 563,787, Sept. 9; Serial No. 593,787, published May 27, 1952. Class 6.
Cundy-Bettoney Co.: *See*—
Bettoney, Harry.
Cundy-Bettoney Co., Inc., The: *See*—
Bettoney, Harry.
Davies-Young Soap Company, The, Dayton, Ohio. Self-polishing liquid wax. 563,973, Sept. 9; Serial No. 598,945. Class 4.
Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 563,893, Sept. 9; Serial No. 617,948, published Jan. 29, 1952. Class 42.
Denison Poultry & Egg Company, Denison, Tex. Fresh and frozen dressed poultry. 563,898, Sept. 9; Serial No. 618,109, published May 13, 1952. Class 46.
Detex Watchclock Corporation: *See*—
Hardinge Brothers.
Diana Co. of New York, Flushing, N. Y. Liniment. 563,894, Sept. 9; Serial No. 617,949, published May 13, 1952. Class 18.
Dianol, Incorporated, St. Petersburg, Fla. Insecticidal paints and insecticide ingredient for paint. 563,802, Sept. 9; Serial No. 601,493, published June 10, 1952. Class 16.
Dickinson, E. E., Co., The: *See*—
Dickinson, Edward E., & Co.

Dickinson, Edward E., & Co., to The E. E. Dickinson Co., Essex, Conn. Certain distilled product of witch-hazel. 38,546, re-renewed July 1, 1952. O. G. Sept. 9. Class 51.

Ditto, Incorporated, Chicago, Ill. Writing ink, ruling ink, brushing ink, etc. 563,857, Sept. 9; Serial No. 613,806, published June 17, 1952. Class 11.

Dixie Mills Company: *See*—
National Warehouse and Storage Company.

Dominion Chemical Company: *See*—
Flowers, George H., Jr.

Dunan Brick Yards Incorporated, Miami, Fla. Bricks. 563,752, Sept. 9; Serial No. 552,757, published May 27, 1952. Class 12.

Durable Plastics, Inc., Sherman, Tex. Compartmental plastic baskets. 563,771, Sept. 9; Serial No. 586,474, published June 17, 1952. Class 2.

Duro Test Corporation, North Bergen, N. J. Incandescent electric lamps. 296,374, Aug. 2, 1932. Republished Sept. 9. Class 21.

Dutchess Underwear Corporation, New York, N. Y. Ladies' wearing apparel. 563,831, Sept. 9; Serial No. 610,050, published Oct. 23, 1951. Class 39.

E. Z. Walk Arch Corporation, The, by E-Z Walk Corporation, New York, N. Y. Medicated corn pads. 294,681, June 7, 1932. Republished Sept. 9. Class 18.

E-Z Walk Corporation: *See*—
E. Z. Walk Arch Corporation, The.

Eagle Products Co., Inc., Chattanooga, Tenn. Insecticides and insect sprays. 563,789, Sept. 9; Serial No. 594,371, published June 17, 1952. Class 6.

Eaton Chemical and Dyestuff Company, Detroit, Mich. Liquid product for redyeing and refinishing of suede, etc. 563,764, Sept. 9; Serial No. 581,713, published June 3, 1952. Class 6.

El Dorado Oil Works, San Francisco, Calif. Defoaming agent. 563,905, Sept. 9; Serial No. 619,384, published June 10, 1952. Class 6.

El Dorado Oil Works, San Francisco, Calif. Mixture of fatty acids suitable for use in making soap. 563,906, Sept. 9; Serial No. 619,385, published June 10, 1952. Class 6.

Electric Boat Company: *See*—
New London Ship & Engine Company, The.

Ellis Silver Company Inc., to Barker Brothers Silver Company, Inc., New York, N. Y. Silver plated hollow ware and flatware. 296,621, renewed Aug. 16, 1952. O. G. Sept. 9. Class 28.

Eloesser-Heynemann Co., San Francisco, Calif. Overalls. 88,743, re-renewed Oct. 22, 1952. O. G. Sept. 9. Class 39.

Emalist Company, Oak Park, Ill. Effervescent preparation. 563,860, Sept. 9; Serial No. 614,083, published May 13, 1952. Class 18.

Enger-Kress Company, West Bend, Wis. Billfolds, pocket secretaries, key cases and empty comb and file cases. 563,851, Sept. 9; Serial No. 612,996, published June 10, 1952. Class 3.

Enterprise Manufacturing Company, The: *See*—
Pflueger, E. A., Company, The.

Euclid Candy Company, Inc., The, Brooklyn, N. Y. Candy. 563,803, Sept. 9; Serial No. 601,610, published June 10, 1952. Class 46.

Faber-Castell, A. W., Pencil Co., Inc., Newark, N. J. Typewriter ribbons, carbon paper, writing ink, etc. 563,797, Sept. 9; Serial No. 597,330, published June 17, 1952. Class 11.

Falls Industries, Inc., assignee: *See*—
General Ceramics and Steatite Corp.

Farah-Agee Manufacturing Company, Inc., El Paso, Tex. Infants', children's, and boys' clothing. 563,770, Sept. 9; Serial No. 585,789, published Sept. 5, 1950. Class 39.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Fumigant. 563,873, Sept. 9; Serial No. 616,020, published June 17, 1952. Class 6.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Agents for leveling dyeings. 563,874, Sept. 9; Serial No. 616,023, published June 17, 1952. Class 6.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Chemical composition. 563,875, Sept. 9; Serial No. 616,024, published June 17, 1952. Class 6.

Fashion Manufacturing Company: *See*—
Hoff, Morris M.

Faucehot Heater Co.: *See*—
Gas and Electric Heater Co.

Flex-O-Lite Manufacturing Corporation, St. Louis, Mo., assignee of B. & R. Manufacturing Company. Reflective glass beads. 563,749, Sept. 9; Serial No. 507,103, published Sept. 27, 1949. Class 50.

Flowers, George H., Jr., doing business as Dominion Chemical Company, Richmond, Va. Petroleum base composition. 563,885, Sept. 9; Serial No. 617,660, published June 3, 1952. Class 6.

Foods Plus, Inc., New York, N. Y. Multiple vitamin preparations. 563,811, Sept. 9; Serial No. 604,428, published Mar. 25, 1952. Class 18.

Fosgate, Chester C., Co., Forest City, Fla. Fresh citrus fruits and frozen concentrated citrus juices. 563,849, Sept. 9; Serial No. 612,601, published May 27, 1952. Class 46.

Foster-McClellan Co., doing business under the name and style of Laboratoires Lincoln, Buffalo, N. Y., and Paris, France. Kidney and bladder pills. 563,964, Sept. 9; Serial No. 579,536. Class 18.

Fowler, Roscoe, doing business under the name and style of Sturdee Steel Products Company, Los Angeles, Calif. Mounting hardware. 563,814, Sept. 9; Serial No. 605,899, published June 17, 1952. Class 13.

French, R. T., Company, The, Rochester, N. Y. Dog food. 563,917, Sept. 9; Serial No. 620,596, published May 13, 1952. Class 46.

Frito Company, The, Dallas, Tex. Potato chips. 563,980, Sept. 9; Serial No. 609,679. Class 46.

Fruit of the Loom, Inc., Providence, R. I. Plastic garment bags, blanket bags, shoe bags, etc. 563,951, Sept. 9; Serial No. 556,432, published June 17, 1952. Class 2.

Fugitt, Mark, Dallas, Tex. Knee pillows. 563,798, Sept. 9; Serial No. 599,937, published June 17, 1952. Class 32.

G & B Produce Co., San Jose, Calif. Fresh vegetables. 563,935–6, Sept. 9; Serial Nos. 622,646–7, published May 27, 1952. Class 46.

Gas and Electric Heater Co., by Faucehot Heater Co., La Porte, Ind. Electric water-supply heaters. 287,757, Oct. 6, 1931. Republished Sept. 9. Class 21.

Gem-Dandy, Inc., Madison, N. C. Men's cravats, braces, belts, and garters, women's scarfs. 563,912, Sept. 9; Serial No. 620,310, published June 17, 1952. Class 39.

General Ceramics and Steatite Corp., Keasbey, N. J., assignor to Falls Industries, Inc., Solon, Ohio. Pipes and pipe fittings. 563,877, Sept. 9; Serial No. 616,166, published June 17, 1952. Class 13.

General Electric Company, Schenectady, N. Y. Endothermic reaction apparatus. 563,791, Sept. 9; Serial No. 594,965, published June 17, 1952. Class 34.

Geometric Stamping Co., The, Euclid, Ohio. Ventilator fans, household fans, and window ventilator fans. 563,796, Sept. 9; Serial No. 596,909, published May 20, 1952. Class 34.

Globe Venetian Blind Corporation, Baltimore, Md. Venetian blinds. 563,829, Sept. 9; Serial No. 609,239, published June 17, 1952. Class 32.

Goldberg, Jack, Co., Chicago, Ill. Sinks, bathtubs, brass faucets, etc. 563,925, Sept. 9; Serial No. 621,206, published June 17, 1952. Class 13.

Goldsmith, Stanley H., Inc., Philadelphia, Pa. Fabrics. 563,760, Sept. 9; Serial No. 570,699, published June 17, 1952. Class 42.

Goltsman, Ben R., & Co.: *See*—
Californ-a Fruit Products Co., Inc.

Green River Fuel Company, Inc., assignee: *See*—
Green River Fuel Company, Incorporated.

Green River Fuel Company, Incorporated, Mogg, Ky., assignor to Green River Fuel Company, Inc., to Old Ben Coal Corporation, Chicago, Ill. Coal. 298,475, renewed Oct. 25, 1952. O. G. Sept. 9. Class 1.

Grosset & Dunlap, Inc., New York, N. Y. Books. 563,810, Sept. 9; Serial No. 604,299, published June 10, 1952. Class 38.

Grove Laboratories, Inc., The, St. Louis, Mo. Medicinal preparations. 563,861, Sept. 9; Serial No. 614,478, published May 13, 1952. Class 18.

Hamilton Carhartt Overall Co., Inc., Detroit, Mich. Overalls, coats, vests, etc. 563,882, Sept. 9; Serial No. 617,112, published June 17, 1952. Class 39.

Handy-Andy Specialty Co., Inc., Long Island City, N. Y. Wall shelves, mirrored wall shelves, shadow boxes, etc. 563,840, Sept. 9; Serial No. 611,357, published June 17, 1952. Class 32.

Hardinge Brothers, Chicago, Ill., by Detex Watchclock Corporation, New York, N. Y. Watchmen's clocks. 86,587, May 21, 1912. Republished Sept. 9. Class 27.

Harper, Ralph M., Winthrop, Mass. Carved figures. 563,808, Sept. 9; Serial No. 603,527, published May 27, 1952. Class 50.

Hauer, Victoria, T., Dayton, Ohio. Clerical vests. 563,866, Sept. 9; Serial No. 614,988, published June 17, 1952. Class 39.

Heekin Spice Co., The, Cincinnati, Ohio, to Red Star Yeast and Products Company, Milwaukee, Wis. Baking-powder. 88,282, re-renewed Sept. 10, 1952. O. G. Sept. 9. Class 46.

Helfrich, Jesse B., doing business under the assumed name of Aqua-Flor, Portland, Oreg. Solution of sodium fluoride and water. 563,847, Sept. 9; Serial No. 612,396, published June 17, 1952. Class 6.

Heller, B, & Company, Chicago, Ill. Food flavoring and spice extracts, food colors, spices, meat seasoning. 563,813, Sept. 9; Serial No. 605,479, published May 13, 1952. Class 46.

Hendee, George M., to Indian Sales Corporation, Springfield, Mass. Bicycles and self-propelled road-vehicles. 39,008, re-renewed Oct. 7, 1952. O. G. Sept. 9. Class 19.

Herb-Craft Health Products, Inc., Valparaiso, Ind. Shampoo, pomade, brilliantine, etc. 563,960, Sept. 9; Serial No. 566,140. Class 51.

Hoff, Morris M., doing business as Fashion Manufacturing Company, Detroit, Mich. Dresses, skirts, blouses, etc. 563,891, Sept. 9; Serial No. 617,797, published June 3, 1952. Class 39.

Hoffmann-La Roche, Inc., Nutley, N. J. Antituberculosis compound. 563,939, Sept. 9; Serial No. 623,250, published June 17, 1952. Class 18.

Holliday Pajamas, Inc., New York, N. Y. Pajamas. 563,966, Sept. 9; Serial No. 589,721. Class 39.

Hopkins, J. L., & Company, Brooklyn, N. Y. Insect powder. 563,836, Sept. 9; Serial No. 610,688, published June 17, 1952. Class 6.

Hortex Manufacturing Co., Inc., El Paso, Tex. Children's play suits. 563,827, Sept. 9; Serial No. 609,178, published June 17, 1952. Class 39.

House-of Huston, Inc., Miami, Fla. Bird and aviary spray. 563,924, Sept. 9; Serial No. 621,149, published June 10, 1952. Class 6.

Imperial Chemical (Pharmaceuticals) Limited, London, England. Veterinary preparation. 563,767, Sept. 9; Serial No. 584,002, published May 13, 1952. Class 18.

Indian Sales Corporation: *See*—
Hendee, George M.

Industrial Chemical Laboratories, Inc., Omaha, Nebr. Liquid and powdered insecticides, liquid and powdered disinfectants. 563,854, Sept. 9; Serial No. 613,510, published June 17, 1952. Class 6.

Industrial Undergarment Corporation, Poughkeepsie, N. Y. Ladies' wearing apparel. 416,187, Sept. 4, 1945. Amended. O. G. Sept. 9. Class 39.

Interchemical Corporation, New York, N. Y. Printing inks. 563,865, Sept. 9; Serial No. 614,777, published June 17, 1952. Class 11.

Jackson Hosiery Company: *See*—
Schwartz, Jack.

Jacobson, F., & Sons, Inc: *See*—
Wooding & Teasdale.

Johanna Ceramics, Costa Mesa, Calif. Ceramic pottery. 563,982, Sept. 9; Serial No. 610,790. Class 30.

Judy Rich Enterprises, Oakland, Calif. T-shirts, sweat shirts, sweaters, etc. 563,793, Sept. 9; Serial No. 596,029, published May 22, 1951. Class 39.

Kalert, F. N., Co., Maplewood, Mo. Liquid medicinal soap, and for medicinal skin, scalp and hair lotion. 563,871, Sept. 9; Serial No. 615,648, published May 13, 1952. Class 18.

Kaufman, Otto, Company: *See*—
Truecraft Tool Company.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., by The May Department Stores Company, St. Louis, Mo. Tooth brushes. 292,939, Mar. 29, 1932. Republished Sept. 9. Class 29.

Kaye and MacDonald, Inc., West Orange, N. J. Steam traps, steam-fitting supplies, and other steam specialties. 292,886, Mar. 29, 1932. Republished Sept. 9. Class 13.

Kayser, Julius, Co., New York, N. Y. Women's slips and hosiery. 563,806, Sept. 9; Serial No. 603,064, published June 17, 1952. Class 39.

Keystone Steel & Wire Company, Peoria (South Bartonville), to Keystone Steel and Wire Company, Peoria, Ill. Twisted wire fence stays. 297,991, renewed Oct. 11, 1952. O. G. Sept. 9. Class 13.

Keystone Steel and Wire Company: *See*—
Keystone Steel & Wire Company.

King Research, Inc., Brooklyn, N. Y. Chemical preparation. 563,779, Sept. 9; Serial No. 591,487, published Dec. 12, 1950. Class 6.

Kleenchief Co. Inc., assignee: *See*—
Almark Handkerchief Co., Inc.

Kleen-Kurl Sales Co.: *See*—
Moran, Joseph M.

Knothe Brothers Co. Inc., New York, N. Y. Men's outer belts. 563,937, Sept. 9; Serial No. 622,749, published June 17, 1952. Class 39.

Kosta, James P., Dayton, Ohio. Shampoo. 563,750, Sept. 9; Serial No. 519,959, published May 27, 1952. Class 52.

Krupp, Herman, doing business under the assumed name of Oceanic Trading Company, Seattle, Wash. Hand carved ivory objects of art. 563,777, Sept. 9; Serial No. 590,273, published June 17, 1952. Class 50.

Kule-Fut Laboratories: *See*—
Strey, Dr. Nicholas C.

Laboratories Lincoln: *See*—
Foster-McClellan Co.

Lamont, Corliss & Company, New York, N. Y., to The Nestlé Company, Inc., Colorado Springs, Colo. Prepared edible chocolate. 297,153, renewed Sept. 6, 1952. O. G. Sept. 9. Class 46.

Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Liniment. 563,780, Sept. 9; Serial No. 591,492, published May 13, 1952. Class 18.

Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Preparation recommended for the treatment of coughs. 563,781, Sept. 9; Serial No. 591,493, published May 13, 1952. Class 18.

Lee-Wald Garment Company, Kansas City, Mo. Boys' garments. 563,830, Sept. 9; Serial No. 609,729, published June 17, 1952. Class 39.

Lever Brothers Company, Cambridge, Mass., to Lever Brothers Company, New York, N. Y. Vegetable shortening. 298,548, renewed Nov. 1, 1952. O. G. Sept. 9. Class 46.

Lewel Manufacturing Co., Inc., New York, N. Y. Girdles. 563,934, Sept. 9; Serial No. 622,340, published June 17, 1952. Class 39.

Lily of France Corset Co., by Lily of France, Inc., New York, N. Y. Corsets. 85,973, Apr. 2, 1912. Republished Sept. 9. Class 39.

Lily of France, Inc.: *See*—
Lily of France Corset Co.

Little, A. P., Inc., Rochester, N. Y. Typewriter ribbons and carbon paper. 563,895, Sept. 9; Serial No. 618,171, published June 17, 1952. Class 11.

Little Rock Tent and Awning Company, Little Rock, Ark. Tents, wagon and truck covers, and tarpaulins. 563,769, Sept. 9; Serial No. 584,914, published May 13, 1952. Class 50.

Little Studios: *See*—
Michaels, Warren.

Lorch Manufacturing Company, Dallas, Tex. Women's and misses' silk frocks. 298,434, renewed Oct. 25, 1952. O. G. Sept. 9. Class 39.

Lowenstein, M., & Sons, Inc., New York, N. Y. Cotton piece goods. 563,881, Sept. 9; Serial No. 617,043, published June 17, 1952. Class 42.

Lux Company, Inc., The, doing business as The Molly Mac Co., Elkhart, Ind. Cleaning device. 563,768, Sept. 9; Serial No. 584,244, published Aug. 22, 1950. Class 29.

M. K. M Hosiery Mills, Inc., Boston, Mass. Ladies' hosiery. 563,971–2, Sept. 9; Serial Nos. 596,854–5. Class 39.

Mack's Manufacturing Co.: *See*—
McDaniel, Elihu.

Mam'selle Lingeries, Inc., New York, N. Y. Children's panties. 563,870, Sept. 9; Serial No. 615,336, published June 17, 1952. Class 39.

Marathon Corporation, Rothschild, Wis. Paper cartons. 563,872, Sept. 9; Serial No. 615,784, published Apr. 22, 1952. Class 2.

Marblette Corporation, The, Long Island City, N. Y. Synthetic resin compositions. 563,846, Sept. 9; Serial No. 612,336, published June 17, 1952. Class 6.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. 563,817, Sept. 9; Serial No. 606,546, published June 3, 1952. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Veterinary preparation. 563,818, Sept. 9; Serial No. 606,548, published June 3, 1952. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical panvitamin preparation. 563,819, Sept. 9; Serial No. 606,553, published June 3, 1952. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Medical preparation for the treatment of essential hypertension, etc. 563,901, Sept. 9; Serial No. 618,643, published May 13, 1952. Class 18.

Matthews Corporation, St. Louis, Mo. Connectors for electrical conductors. 294,211, renewed May 24, 1952. O. G. Sept. 9. Class 21.

May Department Stores Company, The: *See*—
Kaufmann Department Stores, Inc.

McDaniel, Elihu, doing business as Mack's Manufacturing Co., Los Angeles, Calif. Hair pomade. 563,959, Sept. 9; Serial No. 563,863. Class 51.

McIntire Connector Company, Newark, N. J. Solid desiccant. 563,839, Sept. 9; Serial No. 611,182, published June 10, 1952. Class 6.

Mechler, Harold B., and J., Kaneohe, Oahu, Territory of Hawaii. Ceramics—namely figurines. 563,879, Sept. 9; Serial No. 616,723, published May 13, 1952. Class 50.

Mechler, Julene: *See*—
Mechler, Harold B., and J.

Merry, Hull, & Company, New York, N. Y. Infants' and children's coats, hats, vests, etc. 563,832, Sept. 9; Serial No. 610,181, published June 17, 1952. Class 39.

Micatex Company, The, Clinton, Mass. Table tops. 563,775, Sept. 9; Serial No. 589,326, published Oct. 3, 1950. Class 32.

Michaels, Warren, doing business under the name of Little Studios, Atlanta, Ga. Photographic prints. 563,907, Sept. 9; Serial No. 619,547, published June 10, 1952. Class 38.

Micromatic Hone Corporation, Detroit, Mich. House organ. 563,927, Sept. 9; Serial No. 621,326, published June 10, 1952. Class 38.

Mitten, Frank P., Redlands, Calif. Font assortments of letters and figures and illustrating accessories. 563,878, Sept. 9; Serial No. 616,180, published May 13, 1952. Class 50.

Molly Mac Co., The: *See*—
Lux Company, Inc., The.

Moore Business Forms, Inc.: *See*—
American Sales Book Company, Limited.

Moorhead Knitting Company, Harrisburg, Pa., to Dwight S. Williams Co., Inc., New York, N. Y. Hosiery, knit underwear, and sweaters. 88,775, re-renewed Oct. 22, 1952. O. G. Sept. 9. Class 39.

Moorhead Knitting Company, Inc., Harrisburg, Pa., to Dwight S. Williams Co., Inc., New York, N. Y. Men's socks. 292,406, renewed Mar. 15, 1952. O. G. Sept. 9. Class 39.

Moran, Joseph M., doing business as Kleen-Kurl Sales Co., Chicago, Ill. Stainless steel industrial sponge. 563,794, Sept. 9; Serial No. 596,178, published May 20, 1952. Class 4.

Morrison Steel Products Inc., Buffalo, N. Y. Oil and gas burning space heaters. 563,842, Sept. 9; Serial No. 611,714, published May 27, 1952. Class 34.

Motionair, Incorporated, Los Angeles, Calif. Air circulators. 563,967, Sept. 9; Serial No. 594,139. Class 21.
Moyer, Walter W., Company, Ephrata, Pa. Men's, women's, and children's underwear. 563,977, Sept. 9; Serial No. 604,794. Class 39.
National Airlines, Incorporated, Miami, Fla. Arranging all-expense travel tours, etc. 563,946, Sept. 9; Serial No. 605,368, published June 17, 1952. Class 105.
National Electric Products Corporation, Pittsburgh, Pa. Lock nuts. 563,856, Sept. 9; Serial No. 613,722, published June 17, 1952. Class 13.
National Lead Company, Sayreville, N. J., and New York, N. Y. Lead oxide, mixtures of lead oxide with lead chromate, lead sulphate, etc. 563,902, Sept. 9; Serial No. 618,711, published June 10, 1952. Class 6.
National Maillinson Fabrics Corporation, New York, N. Y., assignor to Burlington Mills Corporation, Greensboro, N. C. Fabrics. 563,916, Sept. 9; Serial No. 620,549, published June 10, 1952. Class 42.
National-Standard Company: *See*—
Reynolds Wire Co.
National Tea Co., Chicago, Ill. Coffee. 563,955, Sept. 9; Serial No. 530,239. Class 46.
National Van Lines, Inc., Chicago, Ill. Transportation of goods by motor van. 563,950, Sept. 9; Serial No. 623,200, published June 17, 1952. Class 105.
National Warehouse and Storage Company, to Dixie Mills Company, East St. Louis, Ill. Horse feed. 86,437, re-renewed May 7, 1952. O. G. Sept. 9. Class 46.
Nestlé Company, Inc., The: *See*—
Lamont, Corliss & Company.
New London Ship & Engine Company, The, to Electric Boat Company, Groton, Conn. Internal-combustion engines. 88,344, re-renewed Sept. 10, 1952. O. G. Sept. 9. Class 23.
New York World-Telegram Corporation, New York, N. Y. Section or column appearing in a newspaper or periodical. 292,817, Mar. 29, 1932. Republished Sept. 9. Class 38.
Nichols Wire & Aluminum Co., Davenport, Iowa. Nails. 563,759, Sept. 9; Serial No. 569,465, published June 17, 1952. Class 13.
Norsk Frossenfisk A/L, Oslo, Norway. Frozen fish. 563,826, Sept. 9; Serial No. 609,137, published May 27, 1952. Class 46.
Nova Chemical Corporation, New York, N. Y. Dye-stuffs and pigment colors. 563,845, Sept. 9; Serial No. 612,055, published June 3, 1952. Class 6.
Oceanic Trading Company: *See*—
Krupp, Herman.
O'Keefe and Merritt Company, Los Angeles, Calif. Broiling ovens. 563,773, Sept. 9; Serial No. 588,229, published Jan. 16, 1951. Class 34.
Old Ben Coal Corporation: *See*—
Green River Fuel Company, Incorporated.
Olin Industries, Inc., East Alton, Ill. Regenerated cellulose film. 563,886–8, Sept. 9; Serial No. 617,725–7, published July 1, 1952. Class 1.
Olson Tool Company, Minneapolis, Minn. Dust caps for grease fittings. 563,868, Sept. 9; Serial No. 615,281, published June 17, 1952. Class 13.
Pacific Coast Borax Co., Division of Borax Consolidated, Limited: *See*—
Borax Consolidated, Limited.
Pacific Grape Products Company, Modesto, Calif. Canned frozen fresh deciduous fruits, berries, fruit salad, etc. 563,953, Sept. 9; Serial No. 513,197. Class 46.
Paramount Manufacturing Co., Inc., St. Louis, Mo. Pants and trousers. 563,848, Sept. 9; Serial No. 612,412, published June 17, 1952. Class 39.
Patterson-Sargent Company, The, Cleveland, Ohio. Dry and ready mixed paints, paint enamels, stains, etc. 293,717, renewed May 3, 1952. O. G. Sept. 9. Class 16.
Patton Paint Company, Milwaukee, Wis., to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Ready-mixed paint. 86,827, re-renewed June 4, 1952. O. G. Sept. 9. Class 16.
Peerless Wolfson Company, Chicago, Ill. Handkerchiefs. 563,864, Sept. 9; Serial No. 614,668, published June 17, 1952. Class 39.
Petrolite Corporation: *See*—
Petrolite Corporation, Ltd.
Petrolite Corporation, Ltd., Webster Groves, Mo., now by change of name Petrolite Corporation. Reagents. 563,900, Sept. 9; Serial No. 618,597, published June 10, 1952. Class 6.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Stabilized vitamin A preparation. 563,876, Sept. 9; Serial No. 616,122, published May 13, 1952. Class 18.
Pflueger, E. A., Company, The, to The Enterprise Manufacturing Company, Akron, Ohio. Fishing-tackle. 87,478, re-renewed July 16, 1952. O. G. Sept. 9. Class 22.
Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda and silicate of potash. 563,897, Sept. 9; Serial No. 618,469, published June 10, 1952. Class 6.
Phillips & Buttorff Mfg. Co., Nashville, Tenn. Solid-, liquid-, and gaseous-fuel-burning stoves, ranges, waterheaters, etc. 563,792, Sept. 9; Serial No. 595,150, published June 3, 1952. Class 34.
Pioneer Hi-Bred Corn Co., Des Moines, Iowa. Poultry medicines. 563,778, Sept. 9; Serial No. 590,321, published May 13, 1952. Class 18.
Pittsburgh Plate Glass Company: *See*—
Patton Paint Company.
Plough, Inc., Memphis, Tenn. Antihistamine compound tablet. 563,801, Sept. 9; Serial No. 601,375, published May 13, 1952. Class 18.
Prairie States Oil & Grease Company, Danville, Ill. Antifreeze coolant. 563,869, Sept. 9; Serial No. 615,287, published June 3, 1952. Class 6.
Protex Products Company, Inc., Jersey City, N. J. Bowl covers, jar and bottle covers, machinery covers, etc. 563,835, Sept. 9; Serial No. 610,583, published June 17, 1952. Class 50.
Prym, William, Inc.: *See*—
Prym, William, of America, Inc.
Prym, William, of America, Inc., New York and Long Island City, N. Y., to William Prym, Inc., Dayville, Conn. Common and toilet pins and safety pins. 295,294, renewed June 28, 1952. O. G. Sept. 9. Class 40.
Prym, William, of America, Inc., New York and Long Island City, N. Y., to William Prym, Inc., Dayville, Conn. Common and toilet pins, safety pins, hairpins, etc. 295,626, renewed July 5, 1952. O. G. Sept. 9. Class 40.
Q-Rolo Sheet Metal Products, San Francisco, Calif., formerly Riddle Sheet Metal Works. Sheet metal products. 563,762, Sept. 9; Serial No. 578,099, published June 17, 1952. Class 13.
Rappleyea, George W., Southport, N. C. Thermosetting plastic. 563,807, Sept. 9; Serial No. 603,499, published May 27, 1952. Class 6.
Ravasi, Giuseppe, Como, Italy. Textile fabrics. 563,984, Sept. 9; Serial No. 621,029. Class 42.
Red Star Yeast and Products Company: *See*—
Heekin Spice Co., The.
Refined Products Corporation, Lyndhurst, N. J. Surface-active agent. 563,820, Sept. 9; Serial No. 606,808, published May 20, 1952. Class 52.
Rex Baby Carriage Mfg. Co., Inc., New York, N. Y. Juvenile furniture. 563,772, Sept. 9; Serial No. 587,401, published June 17, 1952. Class 32.
Reynolds Wire Co., Dixon, Ill., to National-Standard Company, Niles, Mich. Wire cloth. 297,655, renewed Sept. 27, 1952. O. G. Sept. 9. Class 13.
Rhodes, James H., & Company, Chicago, Ill., and New York, N. Y., to James H. Rhodes & Company, Chicago, Ill. Chamois-skins. 88,589, re-renewed Oct. 1, 1952. O. G. Sept. 9. Class 1.
Richfield Oil Company of California, by Richfield Oil Corporation, Los Angeles, Calif. Gasoline. 272,812, July 15, 1930. Republished Sept. 9. Class 15.
Richfield Oil Corporation: *See*—
Richfield Oil Company of California.
Riddle Sheet Metal Works: *See*—
Q-Rolo Sheet Metal Products.
Riley Brothers, (Halifax) Limited, Halifax, Yorkshire, England. Candy. 563,889, Sept. 9; Serial No. 617,731, published June 10, 1952. Class 46.
Riverside Chemical Company, Incorporated, North Tonawanda, N. Y. Fluxes, consisting essentially of metal halide mixtures, caustic alkalies, etc. 563,850, Sept. 9; Serial No. 612,666, published June 17, 1952. Class 6.
Robbins Mills, Inc., New York, N. Y. Piece goods. 563,852, Sept. 9; Serial No. 613,024, published June 17, 1952. Class 42.
Rohm & Haas Company: *See*—
Th. Goldschmidt A.-G.
S. A. Latterie Industriali Riunite, L. I. R., Robbio, Lomellina, Italy. Butter and cheese. 563,757, Sept. 9; Serial No. 565,151, published June 17, 1952. Class 46.
St. Lawrence Chemical Company, Inc., Ogdensburg, N. Y. Powdered and liquid preparations for use as an inhalant. 563,799, Sept. 9; Serial No. 600,700, published May 13, 1952. Class 18.
Sales Affiliates, Inc., New York, N. Y. Hair waving lotion. 563,961, Sept. 9; Serial No. 577,842. Class 51.
Sales Affiliates, Inc., New York, N. Y. Wave setting materials. 563,962, Sept. 9; Serial No. 577,843. Class 51.
Sales Affiliates, Inc., New York, N. Y. Hair waving lotion. 563,963, Sept. 9; Serial No. 577,844. Class 51.
Salient, Inc., East Longmeadow, Mass. Wallets, key cases, memo purses, etc. 563,833, Sept. 9; Serial No. 610,232, published June 10, 1952. Class 3.
Sani-White Chemical Co., The, Baltimore, Md. Disinfectant. 563,765, Sept. 9; Serial No. 582,144, published June 17, 1952. Class 6.
Santa Clara Pear Association, San Jose, to Santa Clara Pear Association, Santa Clara, Calif. Fresh deciduous fruits. 298,026, renewed Oct. 11, 1952. O. G. Sept. 9. Class 46.
Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical products. 563,828, Sept. 9; Serial No. 609,202, published May 13, 1952. Class 18.
Schering Corporation, New York, N. Y., to Schering Corporation, Bloomfield, N. J. Laxative preparation. 296,363, renewed Aug. 2, 1952. O. G. Sept. 9. Class 18.
Schering Corporation, New York, N. Y., to Schering Corporation, Bloomfield, N. J. Preparation for internal use. 297,925, renewed Oct. 4, 1952. O. G. Sept. 9. Class 18.

Schieffelin & Co., New York, N. Y. Anti-spasmodic. 563,825, Sept. 9; Serial No. 608,955, Published May 13, 1952. Class 18.
Schmid, Julius, to Julius Schmid, Inc., New York, N. Y. Prophylactic rubber and membranous articles. 295,024, renewed June 14, 1952. O. G. Sept. 9. Class 44.
Schmid, Julius, Inc.: *See*—
Schmid, Julius.
Schwartz, Jack, doing business as Jackson Hosiery Company, Springfield, Mass. Women's hosiery. 563,970, Sept. 9; Serial No. 596,445. Class 39.
Scott, O. M., & Sons Company, Marysville, Ohio. Chemical preparation. 563,909, Sept. 9; Serial No. 619,897, published June 17, 1952. Class 6.
Seaconst Laboratories Inc., New York, N. Y. Chemical preparation. 563,805, Sept. 9; Serial No. 602,474, published June 10, 1952. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Kitchen metal wall and base cabinets. 563,774, Sept. 9; Serial No. 588,392, published June 17, 1952. Class 32.
Sears, Roebuck and Co., Chicago, Ill. Household furniture. 563,800, Sept. 9; Serial No. 600,987, published June 17, 1952. Class 32.
Sears, Roebuck and Co., Chicago, Ill. Air dryers. 563,931, Sept. 9; Serial No. 622,036, published June 17, 1952. Class 34.
Self Help Life Assurance Society, Chicago, Ill. Underwriting of life insurance. 563,944, Sept. 9; Serial No. 595,334, published June 17, 1952. Class 102.
Shaffer, Stanley E., Merced, Calif. Float-controlled valve units. 563,918, Sept. 9; Serial No. 620,747, published June 17, 1952. Class 13.
Sharples Chemicals Inc., Philadelphia, Pa. Amines and mixtures thereof. 563,863, Sept. 9; Serial No. 614,580, published June 10, 1952. Class 6.
Silbernagel Company, Inc., Pine Bluff, Ark. Wheat flour. 563,766, Sept. 9; Serial No. 582,498, published June 17, 1952. Class 46.
Simoniz Company: *See*—
Simoniz Company, The.
Simoniz Company, The, Chicago, Ill., now by change of name Simoniz Company. Cleaning and polishing compounds. 563,837, Sept. 9; Serial No. 611,151, published June 10, 1952. Class 4.
Simoniz Company, The, Chicago, Ill., now by change of name Simoniz Company. Chrome and metal cleaner and a tar solvent. 563,838, Sept. 9; Serial No. 611,152, published June 10, 1952. Class 52.
Simplex Electrical Co., The, Boston, to Simplex Wire & Cable Company, Cambridge, Mass. Insulated wire. 86,627, re-renewed May 21, 1952. O. G. Sept. 9. Class 21.
Simplex Wire & Cable Company: *See*—
Simplex Electrical Co., The.
Skinner, William, & Sons, New York, N. Y., to William Skinner & Sons, Holyoke, Mass., and New York, N. Y. Silk crepes. 296,312, renewed Aug. 2, 1952. O. G. Sept. 9. Class 42.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Fabrics. 563,940, Sept. 9; Serial No. 624,665, published June 17, 1952. Class 42.
Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa. Hard surface wall covering of the nature of linoleum. 563,890, Sept. 9; Serial No. 617,732, published June 10, 1952. Class 20.
Southern Dairies, Inc., Washington, D. C. Frozen confections. 298,085, renewed Oct. 11, 1952. O. G. Sept. 9. Class 46.
Southern Dairies, Inc., Washington, D. C. Frozen confections. 298,087, renewed Oct. 11, 1952. O. G. Sept. 9. Class 46.
Southern Dairies, Inc., Washington, D. C. Ice cream. 298,468, renewed Oct. 25, 1952. O. G. Sept. 9. Class 46.
Spencerian Pen Company Inc.: *See*—
Spencerian Pen Company, The.
Spencerian Pen Company, The, to Spencerian Pen Company Inc., New York, N. Y. Writing pens of all kinds, penholders, paper clips, etc. 298,265, renewed Oct. 18, 1952. O. G. Sept. 9. Class 37.
Squibb, E. R., & Sons, New York, N. Y. Antibacterial preparation. 563,862, Sept. 9; Serial No. 614,467, published June 3, 1952. Class 18.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Lubricating oils and greases. 295,925, renewed July 19, 1952. O. G. Sept. 9. Class 15.
Stepfreeze, Inc., Dayton, Ohio. Concentrated orange juice. 563,823, Sept. 9; Serial No. 608,227, published June 17, 1952. Class 46.
Stewart, A. L., & Sons, Cherryfield and Calais, to A. L. Stewart & Sons, Cherryfield, Maine. Canned berries. 296,882, renewed Aug. 23, 1952. O. G. Sept. 9. Class 46.
Strey, Dr. Nicholas C., doing business as Kule-Fut Laboratories, Chicago, Ill. Foot cream. 563,983, Sept. 9; Serial No. 611,622. Class 18.
Stuart, John, Inc., New York, N. Y. Articles of furniture. 563,751, Sept. 9; Serial No. 551,337, published June 17, 1952. Class 32.
Stunzi Sons Silk Company, Inc., New York, N. Y. Textile fabrics in the piece. 563,941, Sept. 9; Serial No. 624,666, published June 17, 1952. Class 42.
Sturdee Steel Products Company: *See*—
Fowler, Roscoe.
Synthetic Chemicals, Inc., Jersey City, to Synthetic Chemicals, Inc., Paterson, N. J. Accelerating and penetrating agent. 293,826, renewed May 10, 1952. O. G. Sept. 9. Class 6.
Synthetic Products Co., Cleveland, Ohio. Stabilizers for synthetic resins. 563,908, Sept. 9; Serial No. 619,656, published June 17, 1952. Class 6.
Tablerock Laboratories: *See*—
Tablerock Laboratories, Inc.
Tablerock Laboratories, Inc., doing business under the style name Tablerock Laboratories, Greenville, S. C. Cough sedative preparation. 563,809, Sept. 9; Serial No. 103,902, published Aug. 7, 1951. Class 18.
Th. Goldschmidt A.-G., Essen-on-the-Ruhr, Germany, to Rohm & Haas Company, Philadelphia, Pa. Cementing medium in sheet form. 296,134, renewed July 26, 1952. O. G. Sept. 9. Class 5.
Theater Specialties, Incorporated, Los Angeles, Calif. Frames for showcases in theater displays. 563,776, Sept. 9; Serial No. 589,606, published Feb. 27, 1951. Class 32.
Transparent Package Company, Chicago, Ill. Artificial casings. 563,880, Sept. 9; Serial No. 616,785, published June 17, 1952. Class 2.
Truecraft Tool Company, Chicago, Ill., by change of name from Otto Kaufman Company. Pliers, wrenches, and screwdrivers. 563,957, Sept. 9; Serial No. 551,812. Class 23.
Tumbler, J. A., Laboratories, Inc., Baltimore, Md., assignor to The Bon Ami Company, New York, N. Y. Compound for cleaning all glass surfaces, metals, enamel, etc. 563,958, Sept. 9; Serial No. 560,732. Class 52.
Ulmann, Bernhard, Co. Inc., New York, to Bernhard Ulmann Co. Inc., Long Island City, N. Y. Worsted yarns. 298,658, renewed Nov. 1, 1952. O. G. Sept. 9. Class 43.
Union Carbide and Carbon Corporation, New York, N. Y. Herbicides. 563,883, Sept. 9; Serial No. 617,463, published June 3, 1952. Class 6.
Union Special Machine Company, Chicago, Ill. Sewing machines. 295,527, renewed July 5, 1952. O. G. Sept. 9. Class 23.
United Air Lines, Inc., Chicago, Ill. Transportation of persons, mail, and property by air. 563,943, Sept. 9; Serial No. 533,953, published June 17, 1952. Class 105.
United Plastic Corporation, Fitchburg, Mass. Plastic household articles. 563,930, Sept. 9; Serial No. 621,793, published June 17, 1952. Class 2.
United States Stove Company, South Pittsburg, Tenn. Stoves. 563,892, Sept. 9; Serial No. 617,896, published June 10, 1952. Class 34.
U. S. Vitamin Corporation, New York, N. Y. Multivitamin preparation. 563,853, Sept. 9; Serial No. 613,271, published Feb. 19, 1952. Class 18.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 563,903, Sept. 9; Serial No. 619,371, published May 20, 1952. Class 18.
Van Waters & Rogers, Inc., Seattle, Wash. Wrapping twine, baler twine, binder twine and rope. 563,933, Sept. 9; Serial No. 622,318, published June 17, 1952. Class 7.
Vittorio Necchi Società per Azioni, Pavia, Italy. Sewing machines. 563,981, Sept. 9; Serial No. 609,751. Class 23.
Walworth Company, Boston, Mass. Cast metal valves and pipe fittings. 563,843–4, Sept. 9; Serial No. 611,867–8, published June 10, 1952. Class 13.
Watts Regulator Co., Lawrence, Mass. Pressure regulator safety devices. 563,758, Sept. 9; Serial No. 565,982, published June 17, 1952. Class 13.
West Laboratories, Inc., Long Island City, N. Y. Antiseptic preparation. 563,855, Sept. 9; Serial No. 613,542, published June 17, 1952. Class 18.
Westinghouse Electric Corporation: *See*—
Westinghouse Electric and Manufacturing Company.
Westinghouse Electric and Manufacturing Company, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Metal alloys. 292,561, renewed Mar. 15, 1952. O. G. Sept. 9. Class 14.
White, Edw. D., & Assoc., Inc., Seattle, Wash. Travel services. 563,947, Sept 9; Serial No. 613,035, published June 17, 1952. Class 105.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental supplies. 294,960, renewed June 14, 1952. O. G. Sept. 9. Class 44.
Whiterock Quarries, Inc., Bellefonte, Pa. Agricultural lime. 298,348, renewed Oct. 25, 1952. O. G. Sept. 9. Class 10.
Wiesen, Max, & Sons Co., Inc., New York, N. Y. Ladies' dresses. 294,168, renewed May 17, 1952. O. G. Sept. 9. Class 39.
Wilker Bros. Co., New York, N. Y. Men's and boys' pajamas. 563,976, Sept. 9; Serial No. 602,985. Class 39.
Williams, Dwight S., Co., Inc.: *See*—
Moorhead Knitting Company.
Williams, J. B., Company, The, Glastonbury, Conn. Shaving and toilet soaps. 86,854, re-renewed June 4, 1952. O. G. Sept. 9. Class 51.

Williamson-Dickie Manufacturing Company, Fort Worth, Tex. Overalls. 563,928, Sept. 9; Serial No. 621,535, published June 17, 1952. Class 39.
Wood-Metal Industries, Inc., New York, N. Y. Kitchen equipment. 563,978, Sept. 9; Serial No. 607,786. Class 32.
Wooding & Teasdale, Leicester, England, to F. Jacobson & Sons, Inc., New York, N. Y. Blouses, aprons, knitted leggings, etc. 88,819, re-renewed Oct. 22, 1952. O. G. Sept. 9. Class 39.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Detergent sanitizing composition. 563,782, Sept. 9; Serial No. 591,535, published May 20, 1952. Class 52.
Wyeth Incorporated, Philadelphia, Pa. Strontium lactate. 563,834, Sept. 9; Serial No. 610,352, published June 3, 1952. Class 18.
Wyeth Incorporated, Philadelphia, Pa. Penicillin and streptomycin. 563,904, Sept. 9; Serial No. 619,372, published May 20, 1952. Class 18.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Chamois-skins. James H. Rhodes & Company. 88,589, re-renewed Oct. 1, 1952. O. G. Sept. 9.
Coal. Green River Fuel Company, Incorporated. 298,475, renewed Oct. 25, 1952. O. G. Sept. 9.
Regenerated cellulose film. Olin Industries, Inc. 563,886–8, Sept. 9; Serial Nos. 617,725–7, published July 1, 1952.

CLASS 2

Artificial casings. Transparent Package Company. 563,880, Sept. 9; Serial No. 616,785, published June 17, 1952.
Bags, Plastic garment, blanket bags, shoe bags, etc. Fruit of the Loom, Inc. 563,951, Sept. 9; Serial No. 556,432, published June 17, 1952.
Baskets, Compartmental plastic. Durable Plastics, Inc. 563,771, Sept. 9; Serial No. 586,474, published June 17, 1952.
Boxes, Shipping, and tote boxes. Convoy, Incorporated. 563,804, Sept. 9; Serial No. 601,819, published June 17, 1952.
Cartons, Paper. Marathon Corporation. 563,872, Sept. 9; Serial No. 615,784, published Apr. 22, 1952.
Molded plastic dinner table dishes. Boonton Molding Company. 563,763, Sept. 9; Serial No. 578,483, published June 17, 1952.
Plastic household articles. United Plastic Corporation. 563,930, Sept. 9; Serial No. 621,793, published June 17, 1952.

CLASS 3

Billfolds, pocket secretaries, key cases and empty comb and file cases. Enger-Kress Company. 563,851, Sept. 9; Serial No. 612,996, published June 10, 1952.
Key cases, purses, billfolds, etc. Buxton, Incorporated. 563,985, Sept. 9; Serial No. 625,060.
Wallets, key cases, memo purses, etc. Salient, Inc. 563,833, Sept. 9; Serial No. 610,232, published June 10, 1952.

CLASS 4

Cleaning and polishing compounds. The Simoniz Company. 563,837, Sept. 9; Serial No. 611,151, published June 10, 1952.
Stainless steel industrial sponge. J. M. Moran. 563,794, Sept. 9; Serial No. 596,178, published May 20, 1952.
Wax, Self-polishing floor, inside and outside ready mixed paints, etc. Clover Farm Stores Corporation. 563,753, Sept. 9; Serial No. 552,941, published June 10, 1952.
Wax, Self-polishing liquid. The Davies-Young Soap Company. 563,973, Sept. 9; Serial No. 598,945.

CLASS 5

Cementing medium in sheet form. Th. Goldschmidt A.-G. 296,134, renewed July 26, 1952. O. G. Sept. 9.

CLASS 6

Accelerating and penetrating agent. Synthetic Chemicals, Inc. 293,826, renewed May 10, 1952. O. G. Sept. 9.
Agents for leveling dyeings. Farbenfabriken Bayer. 563,874, Sept. 9; Serial No. 616,023, published June 17, 1952.
Amines and mixtures thereof. Sharples Chemicals Inc. 563,863, Sept. 9; Serial No. 614,580, published June 10, 1952.
Anti-freeze coolant. Prairie States Oil & Grease Company. 563,869, Sept. 9; Serial No. 615,287, published June 3, 1952.
Bird and aviary spray. House of Huston, Inc. 563,924, Sept. 9; Serial No. 621,149, published June 10, 1952.
Chemical composition. Farbenfabriken Bayer. 563,875, Sept. 9; Serial No. 616,024, published June 17, 1952.
Chemical compound. Culligan Zeolite Company. 563,787, Sept. 9; Serial No. 593,787, published May 27, 1952.
Chemical preparation. King Research, Inc. 563,779, Sept. 9; Serial No. 591,487, published Dec. 12, 1950.
Chemical preparation. O. M. Scott & Sons Company. 563,909, Sept. 9; Serial No. 619,897, published June 17, 1952.
Chemical preparation. Seacoast Laboratories Inc. 563,805, Sept. 9; Serial No. 602,474, published June 10, 1952.
Combined air-odor neutralizing wick and container. Airplant Corp. 563,915, Sept. 9; Serial No. 620,452, published June 17, 1952.
Defoaming agent. El Dorado Oil Works. 563,905, Sept. 9; Serial No. 619,384, published June 10, 1952.
Disinfectant. The Sani-White Chemical Co. 563,765, Sept. 9; Serial No. 582,144, published June 17, 1952.
Disinfectants, deodorants and fungicides. Cole Chemical Company. 563,761, Sept. 9; Serial No. 577,870, published June 17, 1952.
Dye-stuffs and pigment colors. Nova Chemical Corporation. 563,845, Sept. 9; Serial No. 612,055, published June 3, 1952.
Fluxes, consisting essentially of metal halide mixtures, caustic alkalies, etc. Riverside Chemical Company, Incorporated. 563,850, Sept. 9; Serial No. 612,666, published June 17, 1952.
Frothing agents. American Cyanamid Company. 563,926, Sept. 9; Serial No. 621,249, published June 10, 1952.
Fumigant. Farbenfabriken Bayer. 563,873, Sept. 9; Serial No. 616,020, published June 17, 1952.
Herbicides. Union Carbide and Carbon Corporation. 563,883, Sept. 9; Serial No. 617,463, published June 3, 1952.
Insect powder. J. L. Hopkins & Company. 563,836, Sept. 9; Serial No. 610,688, published June 17, 1952.
Insecticides and insect sprays. Eagle Products Co., Inc. 563,789, Sept. 9; Serial No. 594,371, published June 17, 1952.
Insect'cides, Liquid and powdered, liquid and powdered disinfectants. Industrial Chemical Laboratories, Inc. 563,854, Sept. 9; Serial No. 613,510, published June 17, 1952.
Lead oxide, mixtures of lead oxide with lead chromate, lead sulphate, etc. National Lead Company. 563,902, Sept. 9; Serial No. 618,711, published June 10, 1952.
Liquid product for redyeing and refinishing of suede, etc. Eaton Chemical and Dyestuff Company. 563,764, Sept. 9; Serial No. 581,713, published June 3, 1952.
Mixture of fatty acids suitable for use in making soap. El Dorado Oil Works. 563,906, Sept. 9; Serial No. 619,385, published June 10, 1952.
Moth-repellent crystals and pressed blocks. Click Chemical Corporation. 563,913, Sept. 9; Serial No. 620,311, published June 17, 1952.
Petroleum base composition. G. H. Flowers, Jr. 563,885, Sept. 9; Serial No. 617,660, published June 3, 1952.
Preparation in powder form for desulfating electric storage batteries. Battrix Products. 563,929, Sept. 9; Serial No. 621,749, published June 17, 1952.
Preparations for killing plant nematodes. British Alkaloids Limited. 563,859, Sept. 9; Serial No. 614,037, published May 27, 1952.
Reagents. Petrolite Corporation, Ltd. 563,900, Sept. 9; Serial No. 618,597, published June 10, 1952.
Silicate of soda and silicate of potash. Philadelphia Quartz Company. 563,897, Sept. 9; Serial No. 618,469, published June 10, 1952.
Solid desiccant. McIntire Connector Company. 563,839, Sept. 9; Serial No. 611,182, published June 10, 1952.
Solution of sodium fluoride and water. J. B. Helfrich. 563,847, Sept. 9; Serial No. 612,396, published June 17, 1952.
Stabilizers for synthetic resins. Synthetic Products Co. 563,908, Sept. 9; Serial No. 619,656, published June 17, 1952.
Sulfonates. Bryton Chemical Co. 563,911, Sept. 9; Serial No. 620,194, published June 10, 1952.
Synthetic resin compositions. The Marblette Corporation. 563,846, Sept. 9; Serial No. 612,336, published June 17, 1952.
Thermosetting plastic. G. W. Rappleyea. 563,807, Sept. 9; Serial No. 603,499, published May 27, 1952.
Weed control preparation. Borax Consolidated, Limited. 563,920, Sept. 9; Serial No. 621,099, published June 10, 1952.
Wood preservatives, rodenticides, insecticides, etc. Chapman Chemical Company. 563,954, Sept. 9; Serial No. 515,934.

CLASS 7

Twine, Wrapping, baler twine, binder twine and rope. Van Waters & Rogers, Inc. 563,933, Sept. 9; Serial No. 622,318, published June 17, 1952.

CLASS 10

Agricultural lime. Whiterock Quarries, Inc. 298,348, renewed Oct. 25, 1952. O. G. Sept. 9.

CLASS 11

Ink. Binney & Smith Company. 563,919, Sept. 9; Serial No. 620,798, published June 17, 1952.
Ink, Writing, ruling ink, brushing ink, etc. Ditto, Incorporated. 563,857, Sept. 9; Serial No. 613,806, published June 17, 1952.
Inks, Printing. Interchemical Corporation. 563,865, Sept. 9; Serial No. 614,777, published June 17, 1952.
Typewriter ribbons and carbon paper. A. P. Little, Inc. 563,895, Sept. 9; Serial No. 618,171, published June 17, 1952.
Typewriter ribbons, carbon paper, writing ink, etc. A. W. Faber-Castell Pencil Co., Inc. 563,797, Sept. 9; Serial No. 597,330, published June 17, 1952.

CLASS 12

Bonding and lining materials, Acid resisting. The Atlas Mineral Products Company. 296,554, renewed Aug. 9, 1952. O. G. Sept. 9.
Bricks. Dunan Brick Yards Incorporated. 563,752, Sept. 9; Serial No. 552,757, published May 27, 1952.

CLASS 13

Dust caps for grease fittings. Olson Tool Company. 563,868, Sept. 9; Serial No. 615,281, published June 17, 1952.
Lock nuts. National Electric Products Corporation. 563,856, Sept. 9; Serial No. 613,722, published June 17, 1952.
Mounting hardware. R. Fowler. 563,814, Sept. 9; Serial No. 605,899, published June 17, 1952.
Nails. Nichols Wire & Aluminum Co. 563,759, Sept. 9; Serial No. 569,465, published June 17, 1952.
Pipes and pipe fittings. General Ceramics and Steatite Corp. 563,877, Sept. 9; Serial No. 616,166, published June 17, 1952.
Pressure regulator safety devices. Watts Regulator Co. 563,758, Sept. 9; Serial No. 565,982, published June 17, 1952.
Sheet metal products. Q-Rolo Sheet Metal Products. 563,762, Sept. 9; Serial No. 578,099, published June 17, 1952.
Sinks, bathtubs, brass faucets, etc. Jack Goldberg Co. 563,925, Sept. 9; Serial No. 621,206, published June 17, 1952.
Steam traps, steam-fitting supplies, and other steam specialties. Kaye and MacDonald, Inc. 292,886, Mar. 29, 1932. Republished Sept. 9.
Twisted wire fence stays. Keystone Steel & Wire Company. 297,991, renewed Oct. 11, 1952. O. G. Sept. 9.
Valve units, Float-controlled. S. E. Shaffer. 563,918, Sept. 9; Serial No. 620,747, published June 17, 1952.
Valves, Cast metal, and pipe fittings. Walworth Company. 563,843–4, Sept. 9; Serial Nos. 611,867–8, published June 10, 1952.
Wire cloth. Reynolds Wire Co. 297,655, renewed Sept. 27, 1952. O. G. Sept. 9.
Wire fence, Farm and poultry, hog and cattle wire fence, etc. Atlantic Steel Company. 563,795, Sept. 9; Serial No. 596,320, published June 17, 1952.

CLASS 14

Metal alloys. Westinghouse Electric and Manufacturing Company. 292,561, renewed Mar. 15, 1952. O. G. Sept. 9.

CLASS 15

Gasoline. Richfield Oil Company of California. 272,812, July 15, 1930. Republished Sept. 9.
Oils and greases, Lubricating. Standard Oil Company. 295,925, renewed July 19, 1952. O. G. Sept. 9.

CLASS 16

Paint and varnishes, Fire-retardant. Anglo-American Export Co. Limited. 563,821, Sept. 9; Serial No. 607,838, published June 17, 1952.
Paint, Ready-mixed. Patton Paint Company. 86,827, re-renewed June 4, 1952. O. G. Sept. 9.
Paint, Ready-mixed, paste paint and semi-paste paint, varnishes, etc. Armstrong Paint & Varnish Works. 563,754–5, Sept. 9; Serial Nos. 556,054–5, published June 10, 1952.
Paints, Dry and ready mixed, paint enamels, stains, etc. The Patterson-Sargent Company. 293,717, renewed May 3, 1952. O. G. Sept. 9.
Paints, Insecticidal, and insecticide ingredient for paint. Dianol, Incorporated. 563,802, Sept. 9; Serial No. 601,493, published June 10, 1952.

CLASS 18

Adrenocorticotrophic composition. Armour and Company. 563,816, Sept. 9; Serial No. 606,253, published June 3, 1952.
Antibacterial preparation. E. R. Squibb & Sons. 563,862, Sept. 9; Serial No. 614,467, published June 3, 1952.
Antihistamine compound tablet. Plough, Inc. 563,801, Sept. 9; Serial No. 601,375, published May 13, 1952.
Antiseptic preparation. West Laboratories, Inc. 563,855, Sept. 9; Serial No. 613,542, published June 17, 1952.
Anti-spasmodic. Schieffelin & Co. 563,825, Sept. 9; Serial No. 608,955, published May 13, 1952.
Antituberculosis compound. Hoffmann-La Roche, Inc. 563,939, Sept. 9; Serial No. 623,250, published June 17, 1952.
Calcium carbonate. Calcium Carbonate Company. 563,788, Sept. 9; Serial No. 593,956, published May 13, 1952.
Chemotherapeutic agent. Ciba Limited. 563,822, Sept. 9; Serial No. 607,941, published May 13, 1952.
Cough sedative preparation. Tablerock Laboratories, Inc. 563,809, Sept. 9; Serial No. 603,902, published Aug. 7, 1951.
Effervescent preparation. Emalist Company. 563,860, Sept. 9; Serial No. 614,083, published May 13, 1952.
Foot cream. Dr. N. C. Strey. 563,983, Sept. 9; Serial No. 611,622.
Laxative preparation. Schering Corporation. 296,363, renewed Aug. 2, 1952. O. G. Sept. 9.
Liniment. Dixon Co. of New York. 563,894, Sept. 9; Serial No. 617,949, published May 13, 1952.
Liniment. Lanman & Kemp-Barclay & Co. Incorporated. 563,780, Sept. 9; Serial No. 591,492, published May 13, 1952.
Medical preparation for the treatment of essential hypertension, etc. The S. E. Massengill Company. 563,901, Sept. 9; Serial No. 618,643, published May 13, 1952.
Medical preparations. Chemische Fabrik Rhenania. 37,744, re-renewed Feb. 4, 1952. O. G. Sept. 9.
Medicament. S. Caspe. 563,824, Sept. 9; Serial No. 608,299, published May 13, 1952.
Medicated corn pads. The E. Z. Walk Arch Corporation. 294,681, June 7, 1932. Republished Sept. 9.
Medicinal preparation. The Upjohn Company. 563,903, Sept. 9; Serial No. 619,371, published May 20, 1952.
Medicinal preparations. The Grove Laboratories, Inc. 563,861, Sept. 9; Serial No. 614,438, published May 13, 1952.
Medicinal soap, Liquid, and for medicinal skin, scalp and hair lotion. F. N. Kalert Co. 563,871, Sept. 9; Serial No. 615,648, published May 13, 1952.
Multivitamin preparation. U. S. Vitamin Corporation. 563,853, Sept. 9; Serial No. 613,271, published Feb. 19, 1952.
Penicillin and streptomycin. Wyeth Incorporated. 563,904, Sept. 9; Serial No. 619,372, published May 20, 1952.
Pharmaceutical panvitamin preparation. The S. E. Massengill Company. 563,819, Sept. 9; Serial No. 606,553, published June 3, 1952.
Pharmaceutical preparation. Buckman Laboratories, Inc. 563,884, Sept. 9; Serial No. 617,485, published May 20, 1952.
Pharmaceutical preparation. The S. E. Massengill Company. 563,817, Sept. 9; Serial No. 606,546, published June 3, 1952.
Pharmaceutical products. Schenley Laboratories, Inc. 563,828, Sept. 9; Serial No. 609,202, published May 13, 1952.
Pills, Kidney and bladder. Foster-McClellan Co. 563,964, Sept. 9; Serial No. 579,536.
Poultry medicines. Pioneer Hi-Bred Corn Co. 563,778, Sept. 9; Serial No. 590,521, published May 13, 1952.
Powdered and liquid preparations for use as an inhalant. St. Lawrence Chemical Company, Inc. 563,799, Sept. 9; Serial No. 600,700, published May 13, 1952.
Preparation for internal use. Schering Corporation. 297,925, renewed Oct. 4, 1952. O. G. Sept. 9.
Preparation recommended for the treatment of coughs. Lanman & Kemp-Barclay & Co. Incorporated. 563,781, Sept. 9; Serial No. 591,493, published May 13, 1952.
Strontium lactate. Wyeth Incorporated. 563,834, Sept. 9; Serial No. 610,352, published June 3, 1952.
Sulfa suspension. Abbott Laboratories. 563,899, Sept. 9; Serial No. 618,563, published May 13, 1952.
Veterinary preparation. Imperial Chemical (Pharmaceuticals) Limited. 563,767, Sept. 9; Serial No. 584,002, published May 13, 1952.
Veterinary preparation. The S. E. Massengill Company. 563,818, Sept. 9; Serial No. 606,548, published June 3, 1952.
Vitamin A preparation, Stabilized. Chas. Pfizer & Co., Inc. 563,876, Sept. 9; Serial No. 616,122, published May 13, 1952.
Vitamin preparations, Multiple. Foods Plus, Inc. 563,811, Sept. 9; Serial No. 604,428, published Mar. 25, 1952.

CLASS 19

Bicycles and self-propelled road-vehicles. G. M. Hendee. 39,008, re-renewed Oct. 7, 1952. O. G. Sept. 9.

CLASS 20

Wall covering of the nature of linoleum, Hard surface. Sloane Blabon Corporation. 563,890, Sept. 9; Serial No. 617,732, published June 10, 1952.

CLASS 21

Air circulators. Motionair, Incorporated. 563,967, Sept. 9; Serial No. 594,139.
Connectors for electrical conductors. Matthews Corporation. 294,211, renewed May 24, 1952. O. G. Sept. 9.
Electric water-supply heaters. Gas and Electric Heater Co. 287,757, Oct. 6, 1931. Republished Sept. 9.

Insulated wire. The Simplex Electrical Co. 86,627, renewed May 21, 1952. O. G. Sept. 9.
Lamps, Incandescent electric. Duro Test Corporation. 296,374, Aug. 2, 1932. Republished Sept. 9.

CLASS 22

Fishing-tackle. The E. A. Pflueger Company. 87,478, renewed July 16, 1952. O. G. Sept. 9.

CLASS 23

Internal-combustion engines. The New London Ship & Engine Company. 88,344, re-renewed Sept. 10, 1952. O. G. Sept. 9.
Pliers, wrenches, and screwdrivers. Truecraft Tool Company. 563,957, Sept. 9; Serial No. 551,812.
Sewing machines. Union Special Machine Company. 295,527, renewed July 5, 1952. O. G. Sept. 9.
Sewing machines. Vittorio Necchi Società per Azioni. 563,981, Sept. 9; Serial No. 609,751.

CLASS 27

Clocks, Watchmen's. Hardinge Brothers. 86,587, May 21, 1912. Republished Sept. 9.

CLASS 28

Silver plated hollow ware and flatware. Ellis Silver Company Inc. 296,621, renewed Aug. 16, 1952. O. G. Sept. 9.
Strings of pearls, necklaces, bracelets, etc. Cohn & Rosenberger, Inc. 293,935, renewed May 10, 1952. O. G. Sept. 9.

CLASS 29

Brushes, Tooth. Kaufmann Department Stores, Inc. 292,939, Mar. 29, 1932. Republished Sept. 9.
Cleaning device. The Lux Company, Inc. 563,768, Sept. 9; Serial No. 584,244, published Aug. 22, 1950.

CLASS 30

Pottery, Ceramic. Johanna Ceramics. 563,982, Sept. 9; Serial No. 610,790.

CLASS 32

Cabinets, Kitchen metal wall and base. Sears, Roebuck and Co. 563,774, Sept. 9; Serial No. 588,392, published June 17, 1952.
Display racks, Merchandise. B. B. Butler Mfg. Co. 563,975, Sept. 9; Serial No. 601,533.
Frames for showcases in theater displays. Theater Specialties, Incorporated. 563,776, Sept. 9; Serial No. 589,606, published Feb. 27, 1951.
Furniture, Articles of. John Stuart, Inc. 563,751, Sept. 9; Serial No. 551,337, published June 17, 1952.
Furniture, Household. Sears, Roebuck and Co. 563,800, Sept. 9; Serial No. 600,987, published June 17, 1952.
Furniture, Juvenile. Rex Baby Carriage Mfg. Co., Inc. 563,772, Sept. 9; Serial No. 587,401, published June 17, 1952.
Kitchen equipment. Wood-Metal Industries, Inc. 563,978, Sept. 9; Serial No. 607,786.
Pillows, Knee. M. Fugitt. 563,798, Sept. 9; Serial No. 599,937, published June17, 1952.
Table tops. The Micatex Company. 563,775, Sept. 9; Serial No. 589,326, published Oct. 3, 1950.
Venetian blinds. Globe Venetian Blind Corporation. 563,829, Sept. 9; Serial No. 609,239, published June 17, 1952.
Wall shelves, mirrored wall shelves, shadow boxes, etc. Handy-Andy Specialty Co., Inc. 563,840, Sept. 9; Serial No. 611,357, published June 17, 1952.

CLASS 34

Air dryers. Sears, Roebuck and Co. 563,931, Sept. 9; Serial No. 622,036, published June 17, 1952.
Coffee pots having a self contained heating unit. Caffe Espresso Inc. 563,815, Sept. 9; Serial No. 606,136, published May 6, 1952.
Endothermic reaction apparatus. General Electric Company. 563,791, Sept. 9; Serial No. 594,965, published June 17, 1952.
Heaters, Liquid-fuel and gas-fired water. Clayton & Lambert Manufacturing Company. 563,867, Sept. 9; Serial No. 615,107, published May 13, 1952.
Heaters, Oil and gas burning space. Morrison Steel Products Inc. 563,842, Sept. 9; Serial No. 611,714, published May 27, 1952.
Ovens, Broiling. O'Keefe and Merritt Company. 563,773, Sept. 9; Serial No. 588,229, published Jan. 16, 1951.
Solid-, liquid-, and gaseous-fuel-burning stoves, ranges, water-heaters, etc. Phillips & Buttorff Mfg. Co. 563,792, Sept. 9; Serial No. 595,150, published June 3, 1952.
Stoves. United States Stove Company. 563,892, Sept. 9; Serial No. 617,896, published June 10, 1952.
Ventilator fans, household fans, and window ventilator fans. The Geometric Stamping Co. 563,796, Sept. 9; Serial No. 596,909, published May 20, 1952.

CLASS 36

Clarinets, Soprano, bass and alto clarinets, flutes, etc. H. Bettoney. 295,923, renewed July 19, 1952. O. G. Sept. 9.

CLASS 37

Pens of all kinds, Writing, pen-holders, paper clips, etc. The Spencerian Pen Company. 298,265, renewed Oct. 18, 1952. O. G. Sept. 9.
Sales-books. American Sales Book Company, Limited. 86,689, re-renewed May 28, 1952. O. G. Sept. 9.

CLASS 38

Books. Grosset & Dunlap, Inc. 563,810, Sept. 9; Serial No. 604,299, published June 10, 1952.
House organ. Micromatic Hone Corporation. 563,927, Sept. 9; Serial No. 621,326, published June 10, 1952.
Magazine. Close-Up, Inc. 563,923, Sept. 9; Serial No. 621,133, published June 10, 1952.
Magazine, Monthly. Bagatelle Publishing Co. Inc. 563,922, Sept. 9; Serial No. 621,125, published June 10, 1952.
Periodical. Botany Mills, Inc. 563,921, Sept. 9; Serial No. 621,100, published June 10, 1952.
Photographic prints. W. Michaels. 563,907, Sept. 9; Serial No. 619,547, published June 10, 1952.
Section or column appearing in a newspaper or periodical. New York World-Telegram Corporation. 292,817, Mar. 29,1932. Republished Sept. 9.

CLASS 39

Belts, Men's outer. Knothe Brothers Co. Inc. 563,937, Sept. 9; Serial No. 622,749, published June 17, 1952.
Blouses, aprons, knitted leggings, etc. Wooding & Teasdale. 88,819, re-renewed Oct. 22, 1952. O. G. Sept. 9.
Clothing, Infants', children's, and boys'. Farah-Agee Manufacturing Company, Inc. 563,770, Sept. 9; Serial No. 585,789, published Sept. 5, 1950.
Coats, hats, vests, etc., Infants' and children's. Merry Hull & Company. 563,832, Sept. 9; Serial No. 610,181, published June 17, 1952.
Corsets. Lily of France Corset Co. 85,973, Apr. 2, 1912. Republished Sept. 9.
Cravats, braces, belts, and garters, Men's, women's scarfs. Gem-Dandy, Inc. 563,912, Sept. 9; Serial No. 620,310, published June 17, 1952.
Drawers, middy-blouses, pajamas, etc., Men's, women's and children's. Branigan Green & Company. 563,979, Sept. 9; Serial No. 609,432.
Dresses and blouses, Children's. The Baylis Brothers Company. 563,858, Sept. 9; Serial No. 614,036, published June 17, 1952.
Dresses, Infants' and children's. Benco Togs, Inc. 563,974, Sept. 9; Serial No. 601,190.
Dresses, Ladies'. Max Wiesen & Sons Co., Inc. 294,168, renewed May 17, 1952. O. G. Sept. 9.
Dresses, skirts, blouses, etc. M. M. Hoff. 563,891, Sept. 9; Serial No. 617,797, published June 3, 1952.
Frocks, Women's and misses' silk. Lorch Manufacturing Company. 298,434, renewed Oct. 25, 1952. O. G. Sept. 9.
Garments, Boys'. Lee-Wald Garment Company. 563,830, Sept. 9; Serial No. 609,729, published June 17, 1952.
Girdles. Lewel Manufacturing Co., Inc. 563,934, Sept. 9; Serial No. 622,340, published June 17, 1952.
Handkerchiefs. Almark Handkerchief Co., Inc. 563,896, Sept. 9; Serial No. 618,331, published June 17, 1952.
Handkerchiefs. Peerless Wolfson Company. 563,864, Sept. 9; Serial No. 614,668, published June 17, 1952.
Hosiery, knit underwear, and sweaters. Moorhead Knitting Company. 88,775, re-renewed Oct. 22, 1952. O. G. Sept. 9.
Hosiery, Ladies'. M. K. M. Hosiery Mills, Inc. 563,971–2, Sept. 9; Serial No. 596,854–5.
Hosiery Women's. J. Schwartz. 563,970, Sept. 9; Serial No. 596,445.
Leather item of wearing apparel, Fringed. M. H. Carter. 563,932, Sept. 9; Serial No. 622,140, published June 17, 1952.
Overalls. Eloesser-Heynemann Co. 88,743, re-renewed Oct. 22, 1952. O. G. Sept. 9.
Overalls. Williamson-Dickie Manufacturing Company. 563,928, Sept. 9; Serial No. 621,535, published June 17, 1952.
Overalls, coats, vests, etc. Hamilton Carhartt Overall Co., Inc. 563,882, Sept. 9; Serial No. 617,112, published June 17, 1952.
Pajamas. Holliday Pajamas, Inc. 563,966, Sept. 9; Serial No. 589,721.
Pajamas, Men's and boys'. Wilker Bros. Co. 563,976, Sept. 9; Serial No. 602,985.
Panties, Children's, Mam'selle Lingerie, Inc. 563,870, Sept. 9; Serial No. 615,336, published June 17, 1952.
Pants and trousers. Paramount Manufacturing Co., Inc. 563,848, Sept. 9; Serial No. 612,412, published June 17, 1952.
Play suits, Children's. Hortex Manufacturing Co., Inc. 563,827, Sept. 9; Serial No. 609,178, published June 17, 1952.
Slips and hosiery, Women's. Julius Kayser Co. 563,806, Sept. 9; Serial No. 603,064, published June 17, 1952.

Socks, Men's. Moorhead Knitting Company, Inc. 292,406, renewed Mar. 15, 1952. O. G. Sept. 9.
Sport shirts, sport jackets, slacks, etc., Men's, women's, and children's. Clarke's Clothiers. 563,841, Sept. 9; Serial No. 611,685, published June 17, 1952.
T-shirts, sweat shirts, sweaters, etc. Judy Rich Enterprises. 563,793, Sept. 9; Serial No. 596,029, published May 22, 1951.
Underwear, Men's, women's, and children's. Walter W. Moyer Company. 563,977, Sept. 9; Serial No. 604,794.
Vests, Clerical. V. T. Hauer. 563,866, Sept. 9; Serial No. 614,988, published June 17, 1952.
Wearing apparel, Ladies' Dutchess Underwear Corporation. 563,831, Sept. 9; Serial No. 610,050, published Oct. 23, 1951.
Wearing apparel, Ladies', Industrial Undergarment Corporation. 416,187, Sept. 4, 1945. Amended. O. G. Sept. 9.

CLASS 40

Braids, shoe-laces, galloons, etc. Barthels Mfg. Co. 86,690, re-renewed May 28, 1952. O. G. Sept. 9.
Pins, Common and toilet, and safety pins. William Prym of America, Inc. 295,294, renewed June 28, 1952. O. G. Sept. 9.
Pins, Common and toilet, safety pins, hairpins, etc. William Prym of America, Inc. 295,626, renewed July 5, 1952. O. G. Sept. 9.

CLASS 42

Dress goods and shirtings, Cotton, worsted, and woolen. David & John Anderson, Limited. 87,403, re-renewed July 16, 1952. O. G. Sept. 9.
Fabrics. Stanley H. Goldsmith, Inc. 563,760, Sept. 9; Serial No. 570,699, published June 17, 1952.
Fabrics. National Mallinson Fabrics Corporation. 563,916, Sept. 9, 1952; Serial No. 620,549, published June 10, 1952.
Fabrics. William Skinner & Sons. 563,940, Sept. 9; Serial No. 624,665, published June 17, 1952.
Fabrics in the piece. National Mallinson Fabrics Corporation. 563,916, Sept. 9; Serial No. 620,549, published June 10, 1952.
Fabrics in the piece, Textile. Stunzi Sons Silk Company, Inc. 563,941, Sept. 9; Serial No. 624,666, published June 17, 1952.
Fabrics, Textile. Deering, Milliken & Co., Inc. 563,893, Sept. 9; Serial No. 617,948, published Jan. 29, 1952.
Fabrics, Textile. G. Ravasi. 563,984, Sept. 9; Serial No. 621,029.
Piece goods. Robbins Mills, Inc. 563,852, Sept. 9; Serial No. 613,024, published June 17, 1952.
Piece goods, Cotton. American Bleached Goods Company, Inc. 296,957, renewed Aug. 30, 1952. O. G. Sept. 9.
Piece Goods, Cotton. Cone Export and Commission Co., Inc. 563,942, Sept. 9; Serial No. 625,002, published June 17, 1952.
Piece goods, Cotton. M. Lowenstein & Sons, Inc. 563,881, Sept. 9; Serial No. 617,043, published June 17, 1952.
Silk crepes. William Skinner & Sons. 296,312, renewed Aug. 2, 1952. O. G. Sept. 9.

CLASS 43

Yarns, Worsted. Bernhard Ulmann Co., Inc. 298,658, renewed Nov. 1, 1952. O. G. Sept. 9.

CLASS 44

Dental supplies. The S. S. White Dental Manufacturing Company. 294,960, renewed June 14, 1952. O. G. Sept. 9.
Instrument for exercising and treating the eyes. American Optical Company. 294,123, renewed May 17, 1952. O. G. Sept. 9.
Prophylactic rubber and membranous articles. J. Schmid. 295,024, renewed June 14, 1952. O. G. Sept. 9.

CLASS 46

Baking-powder. The Heekin Spice Co. 88,282, re-renewed Sept. 10, 1952. O. G. Sept. 9.
Butter and cheese. S. A. Latterie Industriali Riunite, L. I. R. 563,757, Sept. 9; Serial No. 565,151, published June 17, 1952.
Candy. The Euclid Candy Company, Inc. 563,803, Sept. 9; Serial No. 601,610, published June 10, 1952.
Candy. Riley Brothers (Halifax) Limited. 563,889, Sept. 9; Serial No. 617,731, published June 10, 1952.
Canned berries. A. L. Stewart & Sons. 296,882, renewed Aug. 23, 1952. O. G. Sept. 9.
Canned frozen fresh deciduous fruits, berries, fruit salad, etc. Pacific Grape Products Company. 563,953, Sept. 9; Serial No. 513,197.
Canned pineapple. The Colonial Sugar Refining Company, Limited. 563,783–4, Sept. 9; Serial No. 592,252–3, published June 10, 1952.
Canned pineapple. The Colonial Sugar Refining Company, Limited. 563,786, Sept. 9; Serial No. 592,255, published June 10, 1952.
Canned pineapple juice. The Colonial Sugar Refining Company, Limited. 563,785, Sept. 9; Serial No. 592,254, published June 10, 1952.
Cheese. Bluebird Dairy Products Corp. 563,914, Sept. 9; Serial No. 620,391, published June 17, 1952.
Chocolate, Prepared edible. Lamont, Corliss & Company. 297,153, renewed Sept. 6, 1952. O. G. Sept. 9.
Coffee. National Tea Co. 563,955, Sept. 9; Serial No. 530,239.
Confections, Frozen. Southern Dairies, Inc. 298,085, renewed Oct. 11, 1952. O. G. Sept. 9.
Confections, Frozen. Southern Dairies, Inc. 298,087, renewed Oct. 11, 1952. O. G. Sept. 9.
Dates, Fresh. Associated Date Growers & Packers. 563,790, Sept. 9; Serial No. 594,824, published Apr. 17, 1951.
Feed, Horse. National Warehouse and Storage Company. 86,437, re-renewed May 7, 1952. O. G. Sept. 9.
Fish, Frozen. Norsk Frossenfisk A/L. 563,826, Sept. 9; Serial No. 609,137, published May 27, 1952.
Flour, Wheat. Silbernagel Company, Inc. 563,766, Sept. 9; Serial No. 582,498, published June 17, 1952.
Food, Dog. The R. T. French Company. 563,917, Sept. 9; Serial No. 620,596, published May 13, 1952.
Food flavoring and spice extracts, food colors, spices, meat seasoning. B. Heller & Company. 563,813, Sept. 9; Serial No. 605,479, published May 13, 1952.
Fruits, Fresh citrus, and frozen concentrated-citrus juices. Chester C. Fosgate Co. 563,849, Sept. 9; Serial No. 612,601, published May 27, 1952.
Fruits, Fresh deciduous. Santa Clara Pear Association. 298,026, renewed Oct. 11, 1952. O. G. Sept. 9.
Ice cream. Southern Dairies, Inc. 298,468, renewed Oct. 25, 1952. O. G. Sept. 9.
Orange juice, Concentrated. Stepfreeze, Inc. 563,823, Sept. 9; Serial No. 608,227, published June 17, 1952.
Pickles and pickle relishes, canned peppers, etc. The Albro Packing Company. 563,910, Sept. 9; Serial No. 619,909, published June 17, 1952.
Pop corn. American Pop Corn Company. 298,361, renewed Oct. 25, 1952. O. G. Sept. 9.
Potato chips. The Frito Company. 563,980, Sept. 9; Serial No. 609,679.
Poultry, Fresh and frozen dressed. Denison Poultry & Egg Company. 563,898, Sept. 9; Serial No. 618,109, published May 13, 1952.
Shortening, Vegetable. Lever Brothers Company. 298,548, renewed Nov. 1, 1952. O. G. Sept. 9.
Sugar, Refined, and centrifugal sugar, vinegar, etc. J. Arechabala. 296,951, renewed Aug. 30, 1952. O. G. Sept. 9.
Vegetable oils, Blended. The Blanton Company. 563,812, Sept. 9; Serial No. 605,139, published May 13, 1952.
Vegetables, Fresh. G. & B. Produce Co. 563,935–6, Sept. 9; Serial No. 622,646–7, published May 27, 1952.

CLASS 47

Wines. California Fruit Products Co., Inc. 331,947, Jan. 28, 1936. New certificate. O. G. Sept. 9.

CLASS 50

Bowl covers, jar and bottle covers, machinery covers, etc. Protex Products Company, Inc. 563,835, Sept. 9; Serial No. 610,583, published June 17, 1952.
Canvas products. S. Brown. 563,938, Sept. 9; Serial No. 622,970, published June 10, 1952.
Carved figures. R. M. Harper. 563,808, Sept. 9; Serial No. 603,527, published May 27, 1952.
Ceramics—namely figurines. H. B. and J. Mechler. 563,879, Sept. 9; Serial No. 616,723, published May 13, 1952.
Font assortments of letters and figures and illustrating accessories. F. P. Mitten. 563,878, Sept. 9; Serial No. 616,180, published May 13, 1952.
Ivory objects of art, Hand carved. H. Krupp. 563,777, Sept. 9; Serial No. 590,273, published June 17, 1952.
Pads. Blake, Moffitt & Towne. 563,756, Sept. 9; Serial No. 562,524, published May 20, 1952.
Printing plates. American Wringer Company, Inc. 298,387, renewed Oct. 25, 1952. O. G. Sept. 9.
Reflective glass beads. Flex-O-Lite Manufacturing Corporation. 563,749, Sept. 9; Serial No. 507,103, published Sept. 27, 1949.
Stereotype mats. Burgess Cellulose Company. 296,832, renewed Aug. 23, 1952. O. G. Sept. 9.
Tents, wagon and truck-covers, and tarpaulins. Little Rock Tent and Awning Company. 563,769, Sept. 9; Serial No. 584,914, published May 13, 1952.

CLASS 51

Certain distilled product of witch-hazel. Edward E. Dickinson & Co. 38,546, re-renewed July 1, 1952. O. G. Sept. 9.
Lotion, Hair waving. Sales Affiliates, Inc. 563,961, Sept. 9; Serial No. 577,842.
Lotion, Hair waving. Sales Affiliates, Inc. 563,963, Sept. 9; Serial No. 577,844.
Lotion, Shaving. G. Carmer. 563,968, Sept. 9; Serial No. 595,445.
Pomade, Hair. E. McDaniel. 563,959, Sept. 9; Serial No. 563,863.
Shampoo, pomade, brilliantine, etc. Herb-Craft Health Products, Inc. 563,960, Sept. 9; Serial No. 566,140.
Shaving and toilet soaps. The J. B. Williams Company. 86,854, re-renewed June 4, 1952. O. G. Sept. 9.
Wave setting materials. Sales Affiliates, Inc. 563,962, Sept. 9; Serial No. 577,843.

CLASS 52

Cleaner, Chrome and metal, and a tar solvent. The Simoniz Company. 563,838, Sept. 9; Serial No. 611,152, published June 10, 1952.
Cleansers, Liquid hair, hair shampoos, and liquid soap shampoos. John H. Breck, Inc. 563,965, Sept. 9; Serial No. 584,437.
Compound for cleaning all glass surfaces, metals, enamel, etc. J. A. Tumbler Laboratories, Inc. 563,958, Sept. 9; Serial No. 560,732.
Detergent. Bigelow-Sanford Carpet Co., Inc. 563,969, Sept. 9; Serial No. 595,869.
Detergent-sanitizing composition. Wyandotte Chemicals Corporation. 563,782, Sept. 9; Serial No. 591,535, published May 20, 1952.
Diaper rash ointment, and liquid soap. John H. Breck, Inc. 563,956, Sept. 9; Serial No. 549,702.
Shampoo. J. P. Kosta. 563,750, Sept. 9; Serial No. 519,959, published May 27, 1952.
Surface-active agent. Refined Products Corporation. 563,820, Sept. 9; Serial No. 606,808, published May 20, 1952.

CLASS 100

Consulting engineering services. Association of Federal Communications Consulting Engineers. 563,952, Sept. 9; Serial No. 578,560, published June 17, 1952.

CLASS 101

Advertising services. Advertising Distributors of America, Inc. 563,949, Sept. 9; Serial No. 619,182, published June 17, 1952.

CLASS 102

Underwriting of accident, sickness, hospitalization, medical and surgery insurance. Continental Casualty Company. 563,948, Sept. 9; Serial No. 613,975, published June 17, 1952.
Underwriting of life insurance. Self Help Life Assurance Society. 563,944, Sept. 9; Serial No. 595,334, published June 17, 1952.

CLASS 105

Air transportation of passengers. American Airlines, Inc. 563,945, Sept. 9; Serial No. 601,184, published June 17, 1952.
Arranging all-expense travel tours, etc. National Airlines, Incorporated. 563,946, Sept. 9; Serial No. 605,368, published June 17, 1952.
Transportation of goods by motor van. National Van Lines, Inc. 563,950, Sept. 9; Serial No. 623,200, published June 17, 1952.
Transportation of persons, mail, and property by air. United Air Lines, Inc. 563,943, Sept. 9; Serial No. 533,953, published June 17, 1952.
Travel services. Edw. D. White & Assoc., Inc. 563,947, Sept. 9; Serial No. 613,035, published June 17, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bond, Donald H., Houston, Tex., assignor to The Texas Company, New York, N. Y. Concentric pipe insulator and spacer. Re. 23,545, Sept. 9.
Dempster, George R., Knoxville, Tenn. Transporting equipment. Re. 23,546, Sept. 9.
Fox, Benjamin, Philadelphia, Pa. Quick detachable connector. Re. 23,547, Sept. 9.
Golden State Company, Ltd., assignee: *See*— Sharp, Paul F., and Wasson.
Sharp, Paul F., Oakland, Calif., and A. J. Wasson, Omaha, Nebr., assignors to Golden State Company, Ltd., San Francisco, Calif. Preserving spray dried food products. Re. 23,548, Sept. 9.
Sinclair, Harold, Windsor, England. Power-transmission mechanism. Re. 23,549, Sept. 9.
Staude, Edwin G., West Los Angeles, Calif. Electric power assistor. Re. 23,550, Sept. 9.
Texas Company, The, assignee: *See*— Bond, Donald H.
Wasson, Arell J.: *See*— Sharp, Paul F., and Wasson.

LIST OF PLANT PATENTEES

Amling, Clarence M., and G. Beltran, assignors to Clarence Amling Roses, Inc., Santa Ana, Calif. Rose plant. 1,126, Sept. 9.
Amling, Clarence, Roses, Inc., assignee: *See*— Amling, Clarence M., and Beltran.
Beltran, Gabriel: *See*— Amling, Clarence M., and Beltran.
Stribling, Thomas B., Jr., Merced, Calif. Peach tree. 1,127, Sept. 9.

LIST OF DESIGN PATENTEES

Anderson, Leslie T.: *See*— Bell, Terence F. P., Kember, and Anderson.
Argento, Josephine P., Chicago, Ill. Televiewing floor rest. 167,666, Sept. 9.
Ateliers de Constructions Electriques de Charleroi (Societe Anonyme), assignee: *See*— Stroobants, Pierre.
Babany, Albert, Cairo, Egypt. Reversible drinking vessel. 167,667, Sept. 9.
Bedinger, Frank M., assignor to F. H. Noble & Company, Chicago, Ill. Jewelry box. 167,668, Sept. 9.
Bell, Terence F. P., Blackheath, R. C. Kember, Croydon, and L. T. Anderson, Bromley, assignors to Thorn Electrical Industries Limited, London, England. Lighting fixture. 167,669, Sept. 9.
Berglund, Clarence H., Minneapolis, Minn. Dairy products carrier. 167,670, Sept. 9.
Biggs, Joseph V., Decatur, Ill. Holder for milk containers. 167,671, Sept. 9.
Blackburn, Lester H., Burbank, Calif. Manicurist bowl. 167,672, Sept. 9.
Borowitz, David, Chicago, Ill. Electric lamp base. 167,673, Sept. 9.
Branson, John C. S., Harborne, Birmingham, England. Telephone rest. 167,674, Sept. 9.
Chancellor, Pearl M., Dallas, Tex. Combination pedicure table and footrest or similar article. 167,675, Sept. 9.
Chicorel, Albert, Detroit, Mich. Bug deflector. 167,676, Sept. 9.
Cuddy, Walter R., Douglaston, N. Y., assignor to Wm. Simpson, Sons & Co., Inc., Philadelphia, Pa. Textile fabric. 167,677, Sept. 9.
Denhof, William C., New York, N. Y. Soup skimmer. 167,678, Sept. 9.
Detroit Steel Products Company, assignee: *See*— Kelly, Clyde W.
Development Research, Inc., assignee: *See*— Soffer, Jack W.
Dorsey, Leslie S., assignor to National Gourmet Shops, Inc., New York, N. Y. Display cabinet. 167,679, Sept. 9.
Ekco Products Company, assignee: *See*— Hvale, James L.
Eyelet Specialty Company, The, assignee: *See*— Hopgood, Robert B.
Farrington, Robert K.: *See*— Farrington, Thayer B. and R. K., Ikeda, and Mercer.
Farrington, Thayer B., Cleveland Heights, R. K. Farrington, Shaker Heights, and F. K. Ikeda and R. P. Mercer, assignors to The Thompson Electric Company, Cleveland, Ohio. Lighting fixture. 167,680, Sept. 9.
Farrington, Thayer B., Cleveland Heights, R. K. Farrington, Shaker Heights, and F. K. Ikeda and R. P. Mercer, assignors to The Thompson Electric Company, Cleveland, Ohio. Lighting fixture. 167,681, Sept. 9.
Fisher, Max, Lower Alsace Township, Berks County, and F. L. Ireland, West Reading, assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa. Stocking. 167,682, Sept. 9.
Fisher, Max, Lower Alsace Township, Berks County, and F. L. Ireland, West Reading, assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa. Stocking. 167,683, Sept. 9.
Fisher, Max, Lower Alsace Township, Berks County, and F. L. Ireland, West Reading, assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa. Stocking. 167,684, Sept. 9.
Fishlove, H., & Co., assignee: *See*— Glass, Marvin I.
Gerstein, Irving: *See*— Gerstein, Sam and I.
Gerstein, Sam, Brooklyn, and I. Gerstein, New York, N. Y. Brassière. 167,685, Sept. 9.
Glass, Marvin I., assignor to H. Fishlove & Co., Chicago, Ill. Clip. 167,686, Sept. 9.
Glass, Marvin I., assignor to H. Fishlove & Co., Chicago, Ill. Clip. 167,687, Sept. 9.
Heintz Manufacturing Company, assignee: *See*— Lambert, Francis M.
Hommer, Julius J., Union, N. J. Jewelry display package or similar article. 167,688, Sept. 9.
Hommer, Julius J., Union, N. J. Jewelry display package or similar article. 167,689, Sept. 9.
Hopgood, Robert B., Cheshire, assignor to The Eyelet Specialty Company, Waterbury, Conn. Cosmetic container. 167,690, Sept. 9.
Huegel, Eduard R., Brooklyn, assignor to Rambusch Decorating Company, New York, N. Y. Pendant fixture for sanctuary side lighting. 167,691, Sept. 9.
Hvale, James L., assignor to Ekco Products Company, Chicago, Ill. Juice extractor. 167,692, Sept. 9.
Ikeda, Fred K.: *See*— Farrington, Thayer B. and R. K., Ikeda, and Mercer.
Ireland, Frederick L.: *See*— Fisher, Max, and Ireland.
Irmischer, Paul H., Chicago, Ill. Lamp. 167,693, Sept. 9.
Irmischer, Paul H., Chicago Ill. Lamp. 167,694, Sept. 9.
Isley, Jacob D., Snow Camp, assignor to Liberty Hosiery Mills, Inc., Liberty, N. C. Stocking. 167,695, Sept. 9.
Kelly, Clyde W., assignor to Detroit Steel Products Company, Detroit, Mich. Sash hinge. 167,696, Sept. 9.
Kember, Raymond C.: *See*— Bell, Terence F. P., Kember, and Anderson.
Kosack, Moe, Brooklyn, N. Y. Bicycle trainer. 167,697, Sept. 9.
Lambert, Francis M., Narberth, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Television tube body. 167,698, Sept. 9.
Lambert, Francis M., Narberth, Pa. Television tube body. 167,699, Sept. 9.

Liberty Hosiery Mills, Inc., assignee: *See*—
Isley, Jacob D.
Lipson, Charles, assignor to Charles Lipson Company, Atlantic City, N. J. Keg. 167,700, Sept. 9.
Lipson, Charles, Company, assignee: *See*—
Lipson, Charles.
Lorenzen, Arnold I., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Bottle. 167,701, Sept. 9.
Mariani, Frank N., New York, N. Y. Ash tray. 167,702, Sept. 9.
Mariani, Frank N., New York, N. Y. Ash tray. 167,703. Sept. 9.
McCardell, Claire, New York, N. Y. Front for spectacle frames. 167,704, Sept. 9.
Mercer, Norman J., Brooklyn, N. Y. Spoon or the like. 167,705, Sept. 9.
Mercer, Robert P.: *See*—
Farrington, Thayer B. and R. K., Ikeda, and Mercer.
Miller, John H., La Grange, Mo. Mask or the like. 167,706, Sept. 9.
Miller, William J., Jr., assignor of one-third to W. M. Robertson and one-third to W. H. Ohruh, Denver, Colo. Pour counter for liquor bottles. 167,707, Sept. 9.
Moore, Alonzo, Baltimore, Md. Combination telephone stand and memorandum holder. 167,708, Sept. 9.
Muehlfeld, Clarence G., Bridgeport, Mich. Combination fountain feeder and waterer. 167,709, Sept. 9.
Munschauer, Frederick E., Jr., Buffalo, N. Y. Shear. 167,710, Sept. 9.
National Gourmet Shops, Inc., assignee: *See*—
Dorsey, Leslie S.
Noble, F. H., & Company, assignee: *See*—
Bedinger, Frank M.
O. E. M. Corporation, assignee: *See*—
Reading, Robert J.
Ohruh, William H., assignee: *See*—
Miller, William J., Jr.
Owens-Illinois Glass Company, assignee: *See*—
Lorenzen, Arnold I.
Penn Maid Hosiery Mills, Inc., assignee: *See*—
Fisher, Max, and Ireland.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 167,711, Sept. 9.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 167,712, Sept. 9.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 167,713, Sept. 9.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 167,714, Sept. 9.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 167,715, Sept. 9.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 167,716, Sept. 9.
Price, Roy B., Cincinnati, Ohio. Awning. 167,717, Sept. 9.
Rabkin, Leo, New York, N. Y. Combined wall plaque and pin-up lamp. 167,718, Sept. 9.
Rambusch Decorating Company, assignee: *See*—
Huegel, Eduard R.
Reading, Robert J., Darien, Conn., assignor to O. E. M. Corporation. Refrigerator unit for an oxygen tent. 167,719, Sept. 9.
Revell, Louis A., Los Angeles, Calif. Ash tray. 167,720, Sept. 9.
Rich, James H., Penn-Wynne, Pa. Night lamp. 167,721, Sept. 9.
Robertson, William M., assignee: *See*—
Miller, William J., Jr.
Rosenthal, Ralph W., Jr., assignor to The Toledo Metal Bed Slat Company, Toledo, Ohio. Bed spring support. 167,722, Sept. 9.
Scott, George F., St. Petersburg, Fla. Bandalore toy. 167,723, Sept. 9.
Sherman, Richard D., Maynard, Mass. Kitchen wall cabinet. 167,724, Sept. 9.
Simpson, Wm., Sons & Co., Inc., assignee: *See*—
Cuddy, Walter R.
Soffer, Jack W., assignor to Development Research, Inc., St. Louis, Mo. Locking closure for containers. 167,725, Sept. 9.
Stroobants, Pierre, Anderlecht-Brussels, assignor to Ateliers de Constructions Electriques de Charlerol (Societe Anonyme), Brussels, Belgium. Magnetic recording dictating machine. 167,726, Sept. 9.
Teare, Albert R., Cleveland Heights, Ohio. Clothespin. 167,727, Sept. 9.
Thompson Electric Company, The, assignee: *See*—
Farrington, Thayer B. and R. K., Ikeda, and Mercer.
Thorn Electrical Industries, Limited, assignee: *See*—
Bell, Terence F. P., Kember, and Anderson.
Toledo Metal Bed Slat Company, The, assignee: *See*—
Rosenthal, Ralph W., Jr.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Wallace, R., & Sons Manufacturing Company, assignee: *See*—
Warren, William S.
Warren, William S., Meriden, assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn. Spoon or similar article. 167,728, Sept. 9.
Werner, Abraham, Sr., Honolulu, Territory of Hawaii. Holder for playing cards. 167,729, Sept. 9.
Wiggins, Walter, Jr., Beaver Heights, Md. Ship. 167,730, Sept. 9.
Willinger, Dennis, New York, N. Y. Pin or similar article. 167,731, Sept. 9.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ackermann, Franz, Binningen, Switzerland, assignor to Ciba Limited. Detergent compositions containing aminocoumarins. 2,610,152, Sept. 9.
Adams, James F., St. Louis, R. L. Bauer, Brentwood, and G. E. Taylor, assignors to Monsanto Chemical Company, St. Louis, Mo. Apparatus for conditioning high temperature chemical fusion reactions and operations. 2,610,109, Sept. 9.
Adams, Richard C.: *See*—
Shanklin, Dunbar L., and Adams.
Admiral Corporation, assignee: *See*—
Bleam, Howard A., Singleman, and Miller.
Aeschlimann, Ernst: *See*—
Humfeld, Harry, Aeschlimann, and Hoffman.
Afco-Lite Corporation, assignee: *See*—
Rusnak, William, and Stoll.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Fisher, Charles H., and Fein.
Humfeld, Harry, Aeschlimann, and Hoffman.
McKinney, Leonard L., and Cowan.
Roberts, Robert L.
Ahlgren, Erick L., Houston, Tex. Fluid content gauge for lighters. 2,609,692, Sept. 9.
Ajero, Fortunato S.: *See*—
Kogan, Albert I., and Ajero.
Aktiebolaget Bofors, assignee: *See*—
Bergström, Lars O.
Sahlin, Börje, and Jansson.
Aktiebolaget Defibrator, assignee: *See*—
Magnuson, Gunnar.
Aktieselskabet Ferrosan, assignee: *See*—
Bing, Jens H.
Alco Valve Co., assignee: *See*—
Freedman, Rudolph, and Dube.
Rose, Howard E.
Allen, George H.: *See*—
Barber, William E., and Allen.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Beckwith, Sterling, and Koenig.
Alton Box Board Company, assignee: *See*—
Breyfogle, Roy H.
American Can Company, assignee: *See*—
Brager, Leif N., and Borkmann.
Reid, George C., and Jacobs.
American Car and Foundry Company, assignee: *See*—
Burnett, William E.
American Cyanamid Company, assignee: *See*—
Chao, Tsai H., and Wharton.
Lundberg, Lennart A.
Nyquist, Arthur S.
American Pipe & Steel Corporation, assignee: *See*—
Cadwell, Ralph K.
American Potash & Chemical Corporation, assignee: *See*—
Lundy, Daniel.
American Viscose Corporation, assignee: *See*—
Bauer, Ernest K., and James.
McDermott, Henry J.
Pearson, Frank G.
Shearer, Howard E.
Amos, James L., assignor to The Dow Chemical Company, Midland, Mich. Preparing vinylidene chloride. 2,610,214, Sept. 9.
Ananson, Richard D., Stirling, assignor, by mesne assignments, to H. Tashjian, Paterson, N. J., J. Begian and P. Cohn, executors of said H. Tashjian, deceased. Support. 2,610,014, Sept. 9.
Andary, Sarah S., Winter Park, Fla. Holder for lady's make-up articles. 2,609,578, Sept. 9.
Anderson, Emil, Briarcliff Manor, N. Y., assignor to Electrolux Corporation, Old Greenwich, Conn. Floor polishing device. 2,609,555, Sept. 9.
Anderson, Frank A., Chicago, Ill. Vehicle door closing device. 2,610,084, Sept. 9.
Anderson, Thomas F., Huntsville, Ala., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Polyesters stabilized with substituted p-benzoquinones. 2,610,168, Sept. 9.
Anderson, William S., Jr., assignor of one-half to J. E. Axeman, Williamsport, Pa. Electromagnetically controlled latch device. 2,609,704, Sept. 9.
Andresen, John H., Jr., Port Washington, assignor, by mesne assignments, to Kollsman Instrument Corporation, Elmhurst, N. Y. Aircraft instrument. 2,609,685, Sept. 9.
Andrews, Dallas R.: *See*—
Isom, Warren R., and Andrews.
Antioch Bookplate Company, assignee: *See*—
Hubbard, John R.
Aqua-Therm, Inc., assignee: *See*—
Beringer, William J.
Arlington Machine Works, Inc., assignee: *See*—
Stahl, Fred A.
Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Wiegand, David E.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Fischer, Karl A., and Hecht.
Arthur, Arnold K., Rochester, N. Y. Automobile screen. 2,609,872, Sept. 9.
Arvins, Nathan A., and A. A. Arvintz, Brooklyn, N. Y. Preheater. 2,610,037, Sept. 9.
Arvintz, Abraham A.: *See*—
Arvins, Nathan A., and Arvintz.
Ashley, Carlyle M., Fayetteville, and W. L. McGrath, Syracuse, N. Y., assignors to Carrier Corporation, Newark, N. J. Dual duct air conditioning system. 2,609,743, Sept. 9.
Atkins, S. Lawrence, assignee: *See*—
Murphy, Arthur J.
Atlantic Refining Company, The, assignee: *See*—
Webber, Jack C.
Atlas Powder Company, assignee: *See*—
Jeffery, John E.
McFarland, David M.
Atlas Tool & Manufacturing Company, assignee: *See*—
Delf, George A., and Kortum.
Attorney General of the United States, The, assignee: *See*—
Garnier, Paul.
Auto Specialties Manufacturing Company, assignee: *See*—
Mueller, Joseph J.
Automatic Pump & Softener Corporation, assignee: *See*—
Whitlock, Fred W.
Automatic Temperature Control Co., Inc., assignee: *See*—
Macgeorge, William D.
Avco Manufacturing Corporation, assignee: *See*—
Reid, John D.
Axeman, James E., assignee: *See*—
Anderson, William S., Jr.
B. B. Chemical Co., assignee: *See*—
Hall, Alan M.
Babin, Luke B., White Castle, La. Cable operated sideline ditching machine of the boom type. 2,609,621, Sept. 9.
Bahnson, Agnew H., Jr., assignor to Wachovia Bank and Trust Co., Winston-Salem, N. C. Self-cleaning humidifier. 2,610,045, Sept. 9.
Baker, Charles W., Spokane, Wash. Exhaust nozzle tip for locomotives. 2,609,986, Sept. 9.
Baker Perkins Inc., assignee: *See*—
Steadman, Rufus P.
Baker Perkins Incorporated, assignee: *See*—
Pointon, John E.
Balsiger, Harold E., and C. C. W. Williams, assignors to Landis Tool Company, Waynesboro, Pa. Article feeding device. 2,609,914, Sept. 9.
Balzer, Abram P., and J. A. Stoesz, Mountain Lake, Minn. Vehicle unloading unit. 2,609,952, Sept. 9.
Banker, Oscar H., Evanston, Ill. Automatic chuck. 2,610,065, Sept. 9.
Bankers Trust Company, executor: *See*—
Maroth, Arthur M.
Barber, William E., Houston, and G. H. Allen, La Porte, Tex. Supporting and turning slip for pipe. 2,609,583, Sept. 9.
Bardet, Gérard, assignor to Société Anonyme dite: Machines Automatiques Bardet, Paris, France. Machine for valving bag blanks. 2,609,734, Sept. 9.
Barfod, Frederik: *See*—
Wirth, Emil O., and Barfod.
Barker, Alvin, Cincinnati, Ohio. Greeting card or folder. 2,609,639, Sept. 9.
Barker, Moore & Mein Company, assignee: *See*—
Santivasi, Vincent A.
Barnard, Norval J., assignor, by mesne assignments, to C. C. Weiss, Oklahoma City, Okla. Die for pipe tongs and making same. 2,609,720, Sept. 9.
Barnes, Frederick J. T., Kingston-on-Thames, England. System and apparatus for sterilizing containers and filling them with a sterilized beverage. 2,609,984, Sept. 9.

Barry Corporation, The, assignee: *See*—
Crede, Charles E.
Lambert, Frank, Jr., and Crede.

Bartlett, William E., Atlanta, Ga. Combination weather strip and sash balance. 2,609,572, Sept. 9.

Bate, Alan, Riverton, assignor to The Winsted Hardware Manufacturing Company, Winsted, Conn. Thermostatically controlled electric iron for dry and steam ironing. 2,609,625, Sept. 9.

Bauer, Ernest K., and W. E. James, Meadville, Pa., assignors to American Viscose Corporation, Wilmington, Del. Bobbin cutter. 2,609,876, Sept. 9.

Bauer, George J.: *See*—
Bremer, Frederick J., and Bauer.

Bauer, Russell L.: *See*—
Adams, James F., Bauer, and Taylor.

Bayer, Charles H., Wynnewood, Pa., assignor to General Electric Company. Pivot end contact for electric disconnecting switches. 2,610,276, Sept. 9.

Beall, Herbert W., Sumter, N. C. Automatic faucet. 2,610,019, Sept. 9.

Beatrice, Gabriel C., Shrewsbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread holder for weft replenishing looms. 2,609,846, Sept. 9.

Becker, Ralph W.: *See*—
Lundvall, Elmer E., Becker, and Eckstein.

Beckwith, Sterling, Wauwatosa, and E. C. Koenig, Waukesha, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric analogue computer. 2,609,988, Sept. 9.

Begian, John, executor: *See*—
Ananson, Richard D.

Bell, James S., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for measuring effective resistance. 2,610,227, Sept. 9.

Bell, Robert E., Deep River, assignor to National Research Council, Ottawa, Ontario, Canada. Coincidence circuit. 2,610,303, Sept. 9.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Carbrey, Robert L.
Farkas, Thomas P.
Leed, Daniel.

Bemis Bro. Bag Company, assignee: *See*—
Davis, Harold C., and Claridge.

Bender, Harry, Princeton, and W. B. Voorhis, East Orange, assignors to Tung-Sol Lamp Works, Inc., Newark, N. J. Manufacturing a filament unit. 2,609,590, Sept. 9.

Bendix Aviation Corporation, assignee: *See*—
Burnett, Richard T.
Buxton, James E.
Fricke, Guy C.
Hood, Edwin E.
Meddock, Alvin A.
Parker, Leland C.
Sekella, Youston.
Thomas, Thomas H.
Torsch, Charles E.
Winkler, Albert H.
Wirth, Emil O., and Barfod.
Wofford, George D.

Benner, Lloyd N., Brunswick, Maine. Electric power indicating switch. 2,610,237, Sept. 9.

Bentley, Edward P.: *See*—
Draper, Charles S., and Bentley.

Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Adsorption process and apparatus. 2,609,887, Sept. 9.

Berg, Elaine, Chicago, Ill. Ear muff. 2,609,544, Sept. 9.

Bergman, Wayne K., Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa. Pneumatic lift conduit. 2,610,093, Sept. 9.

Bergström, Lars O., assignor to Aktiebolaget Bofors, Bofors, Sweden. Rocket discharger. 2,609,730, Sept. 9.

Beringer, William J., assignor to Aqua-Therm, Inc., Dayton, Ohio. Liquid-gas contact apparatus. 2,609,888, Sept. 9.

Beyer, Paul A., St. Clair Shores, Mich. Belt buckle. 2,609,577, Sept. 9.

Bielstein, Walter J., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Drilling mud weight recorder. 2,609,681, Sept. 9.

Bing, Jens H., assignor to Aktieselskabet Ferrosan, Copenhagen, Denmark. Filling-body for surgical use. 2,609,545, Sept. 9.

Blake, Moffitt & Towne, assignee: *See*—
Hoblick, Benjamin M.

Bleam, Howard A., F. Singleman, and D. Miller, assignors to Admiral Corporation, Chicago, Ill. Soldering iron. 2,609,778, Sept. 9.

Blizard, John, Garden City, assignor to Foster Wheeler Corporation, New York, N. Y. Heat exchanger. 2,609,797, Sept. 9.

Blomberg, Martin P., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Railway truck. 2,609,757, Sept. 9.

Blum, Robert D., Jr.: *See*—
Schwartz, Shepard B., and Blum.

Blumson, Samuel S., Baltimore, Md. Combined closure cap for closing the outlet spout and key for opening the filling plug of a liquid container. 2,609,970, Sept. 9.

Bohlman, Walter S., assignor to Hercules Powder Company, Wilmington, Del. Pneumatic vibrator. 2,609,791, Sept. 9.

Boisselier, Earl D.: *See*—
Williamson, Cecil M., and Boisselier.

Bolding, Hubert V., Jeffersonville, Ind., assignor to The Bradley & Gilbert Company, Louisville, Ky. Tumbler carying carton. 2,609,981, Sept. 9.

Bond, Donald S., Philadelphia, Pa., and L. E. Thomson, Merchantville, N. J., assignors to Radio Corporation of America. Fading compensation radio signalling system. 2,610,292, Sept. 9.

Bond, Robert D., Detroit, and G. J. Hungerford, assignors to Douglas Machine Products Co., Wyandotte, Mich. Hose reel and combined handle and support therefor. 2,610,003, Sept. 9.

Book, Frederick R., Jr., Waterville, assignor to The Eyelet Specialty Company, Waterbury, Conn. Cosmetic container. 2,609,922, Sept. 9.

Bordwell, Frederick G.: *See*—
McKellin, Wilbur H., and Bordwell.

Borkmann, Frank F.: *See*—
Brager, Leif N., and Borkmann.

Bowers, Richard C.: *See*—
Walton, Wilson W., and Bowers.

Borland, James N., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Coupler lock lifter toggle link. 2,609,941, Sept. 9.

Boyce, William C., Dallas, Tex., assignor to United Aircraft Corporation, East Hartford, Conn. Rudder pedal installation. 2,610,006, Sept. 9.

Bradley & Gilbert Company, The, assignee: *See*—
Bolding, Hubert V.

Bradley, John A., Santa Ana, Calif. Hydraulic rotary drill. 2,610,031, Sept. 9.

Bradley, Robert W., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Nail cutting machine. 2,609,554, Sept. 9.

Brager, Leif N., Maplewood, and F. F. Borkmann, Union, N. J., assignors to American Can Company, New York, N. Y. Feeding mechanism with gripping device. 2,609,946, Sept. 9.

Brainerd, Arthur A., Norwood, Pa. Enclosed internally heated electric discharge lamp luminaire for variable temperature service. 2,610,289, Sept. 9.

Brandt, Walter, Jersey City, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Dial set for carrier or 2-wire lines. 2,610,256, Sept. 9.

Bratton, Robert A., assignor, by mesne assignments, to The Brush Development Company, Cleveland, Ohio. Indexing system. 2,610,062, Sept. 9.

Braunsdorff, Reginald K., East Orange, assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Prefocused headlamp bulb mounting. 2,610,290, Sept. 9.

Breither, Robert H.: *See*—
Hooker, Donald E., and Breither.

Bremer, Frederick J., Hamilton, and G. J. Bauer, Cincinnati, assignors to The Mosler Safe Company, Hamilton, Ohio. Safe lock. 2,609,679, Sept. 9.

Brennan, Joseph B., Cleveland, Ohio. Storage battery electrode. 2,610,220, Sept. 9.

Breyfogle, Roy H., assignor to Alton Box Board Company, Alton, Ill. Cylinder papermaking machine. 2,609,732, Sept. 9.

Brierly, Ralph C., Narberth, Pa. Boiler. 2,609,798, Sept. 9.

Briggs, Robert F., Los Angeles, and R. J. Moore, Long Beach, assignors to Eject-O-Lette Mfg. Co., Downey, Calif. Portable batter dispenser. 2,609,764, Sept. 9.

Brigham, Ward E., Jr., Rutherford, N. J., assignor to Sun Chemical Corporation, New York, N. Y. Sheet controlled tripping mechanism for rotary printing presses. 2,609,748, Sept. 9.

Brill, William E., Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich. Engine cooling and lubricating system. 2,609,799, Sept. 9.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Marchant, Francis C. I.

Brous, Donald W., Francestown, assignor to Food Engineering Corporation, Manchester, N. H. Disposable plastic valve. 2,609,974, Sept. 9.

Brown, John M.: *See*—
Burtner, Robert R., and Brown.

Brown, Joshua R. C., Jr., Chicago, Ill., assignor to General Electric Company. Luminescent zinc sulfide phosphors and preparing same. 2,610,154, Sept. 9.

Brown, Norman M., Jr., Los Angeles, and C. A. Shank, Redondo Beach, assignors to The Garrett Corporation, Los Angeles, Calif. Processing electrical elements. 2,609,644, Sept. 9.

Brownell, Keith M., Minneapolis, Minn. Air intake preheater for automobile engines. 2,610,282, Sept. 9.

Browning, Bonny I., North Kansas City, Mo., assignor by decree of distribution to Clare Browning. Rail car bearing and roller. 2,610,095, Sept. 9.

Browning, Clare, assignee: *See*—
Browning, Bonny I.

Brumbaugh, Isaac V., Clayton, Mo. Gas burner with vertically spaced ports and interior baffle. 2,609,871, Sept. 9.

Brush Development Company, The, assignee: *See*—
Bratton, Robert A.
Lynch, Thomas E.

Bruyere, Andres and J. A. R. Bruyère, Vincente Lopez, Argentina. Device and process for producing champagne, sparkling wines, and other fermented beverages. 2,610,123, Sept. 9.

Bruyère, Juan A. R.: *See*—
Bruyere, Andres and J. A. R.

Bucyrus-Erie Company, assignee: *See*—
Davidson, Trevor O., and Lonngren.
Grundvig, Knut E.

Budelman, Curis D., Portland, Oreg. Auxiliary adjustable pot handle. 2,609,563, Sept. 9.

Buckland, Bruce O., Schenectady, N. Y., and A. H. Morey, Erie, Pa., assignors to General Electric Company. Locomotive exhaust deflector. 2,609,766, Sept. 9.

Buehler, Arthur: *See*—
Widmer, Willy, and Buehler.

Buffington, Herman L. and J. K., Punxsutawney, Pa. Apparatus for cooling and dispensing liquids. 2,610,101, Sept. 9.

Buffington, John K.: *See*—
Buffington, Herman L. and J. K.

Bulldog Electric Products Company, assignee: *See*—
Platz, Elwood T.

Bullock, Giles E., Rochester, N. Y. Sprayer. 2,609,973, Sept. 9.

Bumpus, Samuel S.: *See*—
Fields, Glenn R., and Bumpus.

Burk, Alma S. and J. A., Lynwood, Calif. Collar supporting attachment for coat hangers. 2,609,976, Sept. 9.

Burk, James A.: *See*—
Burk, Alma S. and J. A.

Burkhart, William H., East Orange, and H. M. Fleming, Jr., assignors to Monroe Calculating Machine Company, Orange, N. J. Keyboard operated translating circuit. 2,610,243, Sept. 9.

Burklin, Adolf J., Toledo, Ohio, assignor to A. O. Smith Corporation, Milwaukee, Wis. Gas valve control. 2,609,989, Sept. 9.

Burnett, Richard T., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission. 2,609,708, Sept. 9.

Burnett, William E., Arlington, Va., assignor to American Car and Foundry Company, New York, N. Y. Sleeping car. 2,609,760, Sept. 9.

Burroughs, Edwin E., Brooklyn, assignor to St. Regis Paper Company, New York, N. Y. Roll supporting means. 2,610,001, Sept. 9.

Burtner, Robert R., Skokie, and J. M. Brown, assignors to G. D. Searle & Co., Chicago, Ill. Halo-hydroxy-naphthoyl-alkanoic acids and the production thereof. 2,610,210, Sept. 9.

Burtt, Horatio H., Hartsdale, W. W. Koenig, Flushing, and L. Gilbert, New York, N. Y., assignors, by mesne assignments, to Winchester Electronics, Incorporated, Glenbrook, Conn. Electrical connector with adjustable cover. 2,610,222, Sept. 9.

Bushman, Edwin F., Aurora, Ill. Dispensing holder for bottles or the like. 2,610,081, Sept. 9.

Butler, John M.: *See*—
Kosmin, Milton, and Butler.

Butterfield, John P., Grosse Pointe Woods, assignor to Chrysler Corporation, Highland Park, Mich. Universal joint. 2,609,673, Sept. 9.

Butterfield, Louis B., Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Humity selector switch. 2,610,275, Sept. 9.

Buxton, James E., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Engine starter gearing. 2,609,694, Sept. 9.

Buxton, James E., Elmira, assignor to Bendix Aviation Corporation, Elmira Heights, N. Y. Engine starter gearing. 2,609,695, Sept. 9.

Bychinsky, Wilfred A., Ann Arbor, assignor to General Motors Corporatoon, Detroit, Mich. Jet engine igniter plug. 2,609,808, Sept. 9.

C & D Batteries, Inc., assignee: *See*—
Doughty, Leon A.

Cadwell, Ralph K., assignor to American Pipe & Steel Corporation, Alhambra, Calif. Pipe inspecting apparatus. 2,609,728, Sept. 9.

Cadwell, Ralph K., Los Angeles, assignor to American Pipe & Steel Corporation, Alhambra, Calif. Recess mounting for valves and fittings for liquefied petroleum gas containers. 2,609,964, Sept. 9.

Cage, John M., Wellesley, assignor to Raytheon Manufacturing Company, Newton, Mass. Dielectric heating apparatus. 2,610,288, Sept. 9.

Caldwell, Andrew H., Ballston Lake, N. Y., assignor to General Electric Company. Solenoid coil support. 2,610,233, Sept. 9.

Caldwell, Forrest J., Chicago, Ill. Hair spring and balance wheel timing mechanism. 2,609,680, Sept. 9.

California Research Corporation, assignee: *See*—
Darragh, John L., and Miller.
Rutherford, John T.
Toland, William G., Jr.

Capers, Claude V., Atlanta, Ga. Collocating printing member. 2,609,613, Sept. 9.

Carbonnaux, Louis, assignee: *See*—
Picard, Lucien.

Carbrey, Robert L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse code modulation communication system. 2,610,295, Sept. 9.

Carey, Frederick H., assignor to Dowty Equipment Limited, Cheltenham, England. Fuel supply control for gas turbines. 2,609,868, Sept. 9.

Carrier Corporation, assignee: *See*—
Ashley, Carlyle M., and McGrath.

Carroll, James M.: *See*—
Murphy, Thomas W., and Carroll.

Carver, Andrew J., Walters, Okla. Fluid propelled pipe scraper. 2,609,556, Sept. 9.

Casas-Robert, Ramon, Geneva, assignor to Mefina S. A., Binningen, Switzerland. Sewing machine. 2,609,772, Sept. 9.

Casey, James P., L. O. Gill, and R. A. Sherman, assignors to A. E. Staley Manufacturing Company, Decatur, Ill. Manufacture of corrugated paperboard. 2,610,136, Sept. 9.

Cash, James A., Louisville, and J. A. Cash, Jr., Jefferson County, assignors to James Cash Machine Co., Louisville, Ky. Edge roll forming and sewing machine. 2,609,768, Sept. 9.

Cash, James A., Jr.: *See*—
Cash, James A., and J. A. Cash, Jr.

Cash, James, Machine Co., assignee: *See*—
Cash, James A., and J. A. Cash, Jr.

Celanese Corporation of America, assignee: *See*—
Eastwood, Donald R.
Sutherland, Frederick F., and Storey.

Ceramic Process Co., assignee: *See*—
Wulf, Charles A.

Chain Belt Company, assignee: *See*—
Lendved, John W., and Longenecker.

Chambers, Thomas B., Jr., Crantord, N. J. Hand truck. 2,609,950, Sept. 9.

Champion Spark Plug Company, assignee: *See*—
Christie, Robert K.

Chao, Tsai H., and E. M. Wharton, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of benzothiazole through pyrolysis. 2,610,190, Sept. 9.

Chapple, E. D., Co., Inc., The, assignee: *See*—
Chapple, Eliot D.

Chapple, Eliot D., Milton, Mass., assignor to The E. D. Chapple Co., Inc., New York, N. Y. Interaction recorder. 2,609,618, Sept. 9.

Chatham Electronics Corporation, assignee: *See*—
Watrous, Ward W., Jr.

Chenicek, Joseph A., Bensenville, assignor to Universal Oil Products Company, Chicago, Ill. Soot removal compositions. 2,610,112, Sept. 9.

Chicago Coin Machine Co., assignee: *See*—
Kocl, Jerry C.

Chicago Pneumatic Tool Company, assignee: *See*—
Maurer, Spencer B., and Ebert.
O'Farrell, Matthew.

Childers, Harry S., assignor to Vendorlator Manufacturing Company, Fresno, Calif. Coin controlled vending machine. 2,610,100, Sept. 9.

Christensen, Kay, assignee: *See*—
Maroth, Arthur M.

Christensen, Norman V., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine. 2,609,770, Sept. 9.

Christian, Schuyler M., Princeton, N. J., assignor to Radio Corporation of America. Radiation intensity metering system. 2,610,302, Sept. 9.

Christie, Robert K., assignor to Champion Spark Plug Company, Toledo, Ohio. Spark plug cleaning apparatus. 2,609,827, Sept. 9.

Chrysler Corporation, assignee: *See*—
Butterfield, John P.
Dickson, John B.
Glassford, Fred.
Gleason, Thomas C.
Jandasek, Joseph.
Keller, Kaufman T.
Mason, Frederick H.
Neracher, Carl A., and Dunn.
Smith, Robert F.
Staley, Allen C.
Vogt, Paul R., and Nims.
Zeeb, Elmer G.

Ciba Limited, assignee: *See*—
Ackermann, Franz.
Jenny, Walter, and Kern.
Widmer, Willi, Schuetz, and Heckendorn.
Widmer, Willy, and Buehler.

Claps, Michael, Denver, Colo. Twin bushing puller. 2,609,597, Sept. 9.

Claridge, Robert A.: *See*—
Davis, Harold C., and Claridge.

Clark, Alfred, Bartlesville, Okla., assignor to Phillips Petroleum Company. Synthesis of hydrocarbons. 2,610,200, Sept. 9.

Clark, Cecilia G.: *See*—
McCormack, Thelma C., and Clark.

Clark, Clyde C.: *See*—
Roush, Milton S., and Clark.

Clark, Edward B., Milford, Conn., assignor to General Electric Company. Making sheet metal bushings. 2,609,596, Sept. 9.

Clark, Gilbert R., Nutley, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Electronic frequency modulator. 2,610,318, Sept. 9.

Clark, Milton L., Memphis, Tenn. Bathtub with contained shower curtain. 2,609,547, Sept. 9.

Clark, William H., San Mateo, Calif. Cargo securing means. 2,609,761, Sept. 9.

Clarkson, Alick, Itasca, assignor of one-half to Vapor Heating Corporation, Chicago, Ill. Thermostatic safety control for burners. 2,609,867, Sept. 9.

Cloverleaf-Freeland Corporation, assignee: *See*— Miller, William H.

Cohen, Paul, Glen Cove, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine cycle control system. 2,609,553, Sept. 9.

Cohn, Peter, executor: *See*— Ananson, Richard D.

Cole, Charles S., assignor to Fabric Fire Hose Company, Sandy Hook, Conn. Circular loom and operating same. 2,609,838, Sept 9.

Coleman, Harry L., Chicago, Ill. Adjustable liquid gauge. 2,609,687, Sept. 9.

Colgate-Palmolive-Peet Company, assignee: *See*— Gehhart, Arthur I. Lawrence, Edward A.

Collins, Samuel C., Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Rectifying apparatus. 2,610,046, Sept. 9.

Columbia Broadcasting System, Inc., assignee: *See*— Goldmark, Peter C., and Youngquist.

Commercial Controls Corporation, assignee: *See*— Uhl, William H.

Compagnie Generale de Telegraphie Sans Fil, assignee: *See*— Gutton Henri.

Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme, assignee: *See*— Jourdain, André P.

Conn, C. G., Ltd., assignee: *See*— Way, George H.

Consolidated Car-Heating Company, Inc., assignee: *See*— Hamilton, Wallace.

Continental Can Company, Inc., assignee: *See*— Goldsworthy Norman H.

Continental Silver Co., Inc., assignee: *See*— Kolisch, Emil.

Continuous Metalcast Co., Inc., assignee: *See*— Rossi, Irving.

Cook, Robert M., Tuscumbia, Ala. Machine press. 2,609,745, Sept. 9.

Corey, Lorin A., Cleveland Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Multiple stage thread processing reel. 2,609,588, Sept. 9.

Cormack, Elbert M.: *See*— Darnell, Jesse L., and Cormack.

Corn Products Refining Company, assignee: *See*— Newkirk, William B., and Diouhy.

Couchman, Robert, Jr., San Jose, and W. J. Raab, Campbell, Calif. Package distribution system. 2,609,947, Sept. 9.

County Commercial Cars Limited, assignee: *See*— Tapp, Arthur G., and E. T. J.

Couper, Cyril S.: *See*— Kerridge, Frank E., and Couper.

Cowan, John C.: *See*— McKinney, Leonard L., and Cowan.

Cox, Duncan B., Woodbury, N. Y. Electric heating element. 2,610,286, Sept. 9.

Cracker, Lloyd A., Muscatine, Iowa. Plug-type fish lure. 2,609,633, Sept. 9.

Cranch, Edward J.: *See*— Phillips, William E., and Cranch.

Crane Packing Company, assignee: *See*— Haake, Paul T.

Cranford, Jesse A., Buffalo, assignor to Western Electric Company, Incorporated, New York, N. Y. Continuity test apparatus. 2,610,229, Sept. 9.

Crede, Charles E.: *See*— Lambert, Frank, Jr., and Crede.

Crede, Charles E., Winchester, Mass., assignor to The Barry Corporation. Vibration isolator. 2,610,016, Sept. 9.

Crompton & Knowles Loom Works, assignee: *See*— Beatrice, Gabriel C. Turner, Richard G.

Cummins Engine Company, Inc., assignee: *See*— Reiners, Neville M.

Cunningham, Orin D., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Production and refining of organic acids. 2,610,197, Sept. 9.

Cunningham, Orville A., Maywood, Calif. Telephone light mounting. 2,610,262, Sept. 9.

Cutler-Hammer, Inc., assignee: *See*— Hodgson, Howard E.

Cymara, Hermann K., Willseyville, N. Y. Machine for gathering, turning, and windrowing hay or the like. 2,609,651, Sept. 9.

Daines, William M., Logan, Utah. Display rack for cloth. 2,609,999, Sept. 9.

Daland, Elliot, Wallingford, assignor, by mesne assignments, to Piasecki Helicopter Corporation, Morton, Pa. Rotary wing blade. 2,609,883, Sept. 9.

Dale Hydraulic Controls, Inc., assignee: *See*— Dale, Joseph S.

Dale, Joseph S., assignor to Dale Hydraulic Controls, Inc., Rockford, Ill. Load-limit apparatus for hydraulic engine governors. 2,610,050, Sept. 9.

Dalton, Thomas N., Leonia, assignor to The M. W. Kellogg Company, Jersey City, N. J. Method and apparatus for pumping volatile liquids. 2,609,668, Sept. 9.

Daniels, James W., Fort Myers, Fla. Self-loading and self-dumping vehicle. 2,609,951, Sept. 9.

Danielson, Elmer L., Oakland, and F. J. Dofsen, San Francisco, Calif. Forming a multipart plastic article. 2,609,570, Sept. 9.

Darnell, Jesse L., Milford, and E. M. Cormack, Mount Healthy, assignors to The Lockwood Manufacturing Company, Cincinnati, Ohio. Bake pan unit. 2,609,959, Sept. 9.

Darragh, John L., and R. J. Miller, Berkeley, assignors to California Research Corporation, San Francisco, Calif. Preparation of aryl mono-carboxylic acids. 2,610,211, Sept. 9.

Daubenspeck, Henry C., assignee: *See*— Winder, Samuel E.

Daudt, William H.: *See*— Hyde, James F., and Daudt.

Daugherty, George W., Orlando, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Spraying and dusting machine. 2,609,635, Sept. 9.

Davidson, Trevor O., Milwaukee, and B. L. Lonngren, assignors to Bucyrus-Erie Company, South Milwaukee, Wis. Lowerable A-frame. 2,609,939, Sept. 9.

Davies, Robert H., Aurora Township, Portage County, assignor to The Parker Appliance Company, Cleveland, Ohio. Emergency by-pass valve for fluid circuits. 2,609,829, Sept. 9.

Davis, Allan C., Baltimore, Md. Article grouping mechanism. 2,609,911, Sept. 9.

Davis, Harold C., Webster Groves, and R. A. Claridge, Affton, assignors to Bemis Bro. Bag Company, St. Louis, Mo. Wheeled shopping bag. 2,610,071, Sept. 9.

Davis, Hugh, Windsor, Ontario, Canada. Tackle retriever. 2,609,632, Sept. 9.

Dazzi, Joachim: *See*— Gluesenkamp, Earl W., and Dazzi.

De Burgh, Albert R., Redondo Beach, Calif. Conveying apparatus. 2,609,915, Sept. 9.

De Halleux, Pierre, assignor to Union des Fabriques Belges de Textiles Artificiels "Fabelta," Societe Anonyme, Brussels, Belgium. Double-twist spindle. 2,609,652, Sept. 9.

Delf, George A., Creve Coeur, and R. E. Kortum, Robertson, assignors to Atlas Tool & Manufacturing Company, St. Louis, Mo. Pivoted-leg table with adjustable height provision. 2,609,627, Sept. 9.

Deloraine, Edmond M., and A. H. Reeves, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Mixed modulation in pulse intercommunication systems. 2,610,254, Sept. 9.

De Montalvo y Garcia-Camba, Manuel, Madrid, Spain. Stabilizer and compensator for vehicles on curved roads. 2,609,884, Sept. 9.

Den Hertog, Martinus, and J. Kruithof, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y. Electrical signaling system. 2,610,255, Sept. 9.

Denton, John J., Morganfield, Ky. Garment bagging machine with cutting mechanism for tubular material. 2,609,983, Sept. 9.

De Smet, Polydoor F., Wilrijk-Antwerp, and A. E. van Dormael, Heverlee-Louvain, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Photographic silver halide emulsions. 2,610,121, Sept. 9.

Deutsch, Millard B., assignor to The Electric Sprayit Company, Sheboygan, Wis. Air-pressure operated paint spray gun. 2,610,091, Sept. 9.

Devine, George F., Marcellus, N. Y., assignor to General Electric Company. Marker signal generator. 2,610,228, Sept. 9.

Dewas, Raymond, Amiens, France. Device for the insertion of different wefts in weft feeder looms without pirn. 2,609,842, Sept. 9.

Dewey and Almy Chemical Company, assignee: *See*— Shanklin, Dunbar L., and Adams.

Dexheimer, Walter A., Jr., and H. N. Pullen, Fort Morgan, Colo. Reversible tractor plow. 2,609,740, Sept. 9.

Dickinson, Arthur H., Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y. Crystal triode. 2,610,234, Sept. 9.

Dickman, Harold G., Pleasant Ridge, Mich. Refrigerator condenser coil assembly. 2,610,039, Sept. 9.

Dickson, John B., assignor to Chrysler Corporation, Highland Park, Mich. Apparatus for adjusting vehicle headlamps. 2,609,611, Sept. 9.

Dillon, James P., New York, N. Y. Denture retaining means. 2,609,605, Sept. 9.

Distillers Company Limited, The, assignee: *See*— Highet, Hugh C., and Salt.

Dixey, Godfrey W. B.: *See*— Prendergast, Charles S., R. S., Dixey, and Gordon.

Dixon, Paul H., assignor to Dixon Research, Inc., Rockford, Ill. Pin binder. 2,609,580, Sept. 9.

Dixon Research, Inc., assignee: *See*— Dixon, Paul H.

Dlouhy, John E.: *See*— Newkirk, W. B., and Dlouhy.

Doane, Paul C., Windsor, N. Y. Mattress. 2,609,548, Sept. 9.

Dodge, Adiel Y.: *See*— Swenson, Carl E., and Dodge.

Dodge, Ronald D., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Resilient support for typewriting machines. 2,610,010, Sept. 9.

Doering, William A., Palo Alto, and W. E. Koenig, Redwood City, assignors to S. & W. Fine Foods, Inc., San Francisco, Calif. Fruit orientation machine. 2,609,913, Sept. 9.

Dofsen, Floyd J.: *See*— Danielson, Elmer L., and Dofsen.

Domenech Tarafa, Josefina, Barcelona, Spain. Automatic apparatus for the manufacture by hand of all kinds of knitted fabrics. 2,609,675, Sept. 9.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Latch for hopper car doors. 2,609,759, Sept. 9.

Doughty, Leon A., Glenside, assignor to C & D Batteries, Inc., Conshohocken, Pa. Battery plate feed device. 2,609,945, Sept. 9.

Doughty, Robert T., assignor to General Motors Corporation, Detroit, Mich. Valve rotating device. 2,609,803, Sept. 9.

Doughty, Robert T., assignor to General Motors Corporation, Detroit, Mich. Valve rotating device. 2,609,804, Sept. 9.

Douglas Machine Products Co., assignee: *See*— Bond, Robert D., and Hungerford.

Doust, James F., London, England. Apparatus for sorting postal packets. 2,609,928, Sept. 9.

Dow Chemical Company, The, assignee: *See*— Amos, James L. Pye, David J.

Dow Corning Corporation, assignee: *See*— Hyde, James F., and Daudt. Sommer, Leo H.

Downs, Alfred B., Jr., Columbus, Miss. Calendar. 2,609,630, Sept. 9.

Dowty Equipment Limited, assignee: *See*— Carey, Frederick H.

Drapeau, Joseph E., Jr., Calumet City, Ill., and J. H. Smith and R. J. Halsted, Hammond, Ind., assignors to The Glidden Company, Cleveland, Ohio. Sintered iron bodies and processes therefor. 2,610,118, Sept. 9.

Draper, Charles S., Newton, and E. P. Bentley, Wollaston, Mass., assignors, by mesne assignments, to Research Corporation. Gunsight having lead computing device. 2,609,606, Sept. 9.

Dreher, George M., Pittsburgh, Pa. Combustion analysis apparatus. 2,610,107, Sept. 9.

Dreier-Stalheim Inc., assignee: *See*— Stalheim, Bror G.

Drenching Equipment Company Limited, assignee: *See*— Mitchell, Allan F.

Dresser Industries, Inc., assignee: *See*— Risley, Roger E., and Whitehill.

Drew, E. F., & Co., Inc., assignee: *See*— Valko, Emery I.

Drost, Wilfred: *See*— Eversole, William G., and Drost.

Drout, William M., Jr., Linden, N. J., assignor to Standard Oil Development Company. Extractive distillation process. 2,610,141, Sept. 9.

Dryon, Paul, Auvelais, Belgium. Apparatus for working pastes. 2,610,042, Sept. 9.

Dube, John E.: *See*— Freedman, Rudolph, and Dube.

Dumbauld, George K.: *See*— Morgan, Bryan E., and Dumbauld.

Dumousseau, Claude: *See*— Touraton, Emile, and Dumousseau.

Duncan, Angus W., assignor to The Mining Engineering Company Limited, Worcester, England. Cover for return conveyer runs. 2,609,918, Sept. 9.

Dunn, William T.: *See*— Neracher, Carl A., and Dunn.

Du Pont, E. I., de Nemours & Company, assignee: *See*— Searle, Norman E. Watson, Frederick K., Ludlow, and Tallman.

Durham, Charles H., Bedford, Va. Compensating spring take-up tension for bobbin change shuttles. 2,609,843, Sept. 9.

Dye, William T., Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Organic phosphorous compounds. 2,610,139, Sept. 9.

Dyer, Joseph G., Denver, Colo. Apparatus for sealing wells. 2,609,880, Sept. 9.

Eades, James D., Wichita, Kans. Device for opening paper cartons. 2,609,715, Sept. 9.

Eastman Kodak Company, assignee: *See*— Hagemeyer, Hugh J., Jr., and Hull. Minsk, Louis M., Van Deusen, and Robertson.

Eastwood, Donald R., Drummondville, Quebec, Canada, assignor to Celanese Corporation of America. Yarn winding machine. 2,609,997, Sept. 9.

Easy Washing Machine Corporation, assignee: *See*— Rogers, John P.

Eaton Laboratories, Inc., assignee: *See*— Hayes, Kenyon J.

Eaton, Samuel E., Lexington, Mass., assignor, by mesne assignments, to Oneida, Ltd., Oneida, N. Y. Electropolishing. 2,610,143, Sept. 9.

Eaton, Samuel E., Lexington, Mass., assignor, by mesne assignments, to Oneida, Ltd., Oneida, N. Y. Electropolishing. 2,610,144, Sept. 9.

Ebert, Howard P.: *See*— Maurer, Spencer B., and Ebert.

Eckstein, Conrad: *See*— Lundvall, Elmer E., Becker, and Eckstein.

Eddy, William R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Magnetic change-over valve. 2,609,669, Sept. 9.

Eichorn, Robert N., Johnson City, assignor to International Business Machines Corporation, New York, N. Y. Signal voltage regulator for power line high-frequency transmitters. 2,610,241, Sept. 9.

Eidman, Albert W., South Euclid, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Multiple stage processing reel. 2,609,589, Sept. 9.

Eitzen, Louis C., New York, N. Y. Viscosity meter air barrier. 2,609,682, Sept. 9.

Eject-O-Lette Mfg. Co., assignee: *See*— Briggs, Robert F., and Moore.

Electraulic Presses Limited, assignee: *See*— Towler, John M. and F. H.

Electric Sprayit Company, The, assignee: *See*— Deutsch, Millard B.

Electrolux Corporation, assignee: *See*— Anderson, Emil.

Elfstrom, Samuel, assignee: *See*— Lindquist, August T.

Eliasson, Bror, Eskilstuna, Sweden. Producing finely crystalline aluminum oxide. 2,610,110, Sept. 9.

Eljer Co., assignee: *See*— Gulick, David E.

Elles, Albert C., and F. L. Fulke, Terre Haute, Ind. Bit. 2,610,049, Sept. 9.

Elmes, John A., Beaver Falls, assignor to Ryman Engineering Company, Ellwood City, Pa. Gauge for roll crowns. 2,609,610, Sept. 9.

Elwert, Otto: *See*— Schnürle, Adolf, and Elwert.

Emerson Electric Manufacturing Company, The, assignee: *See*— Korski, Frank.

Emerson, William S., and T. M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Thianaphthylmercaptothiazoles. 2,610,189, Sept. 9.

Emmons, Roy, Fort Lauderdale, Fla. Operating mechanism for vibrating tables. 2,610,040, Sept. 9.

Enander, Arthur G., Rockford, Ill., assignor to Smith & Enander. Exhaust damper. 2,609,837, Sept. 9.

Engel, William T., Union, N. J., assignor to Radio Corporation of America. Lead straightening machine. 2,609,858, Sept. 9.

Engel, William T., Union, N. J., assignor to Radio Corporation of America. Hopper for selectively dispensing tube bases. 2,609,912, Sept. 9.

English, Robert R., assignor to Oak Mfg. Co., Chicago, Ill. Electrical apparatus. 2,610,299, Sept. 9.

Ens, Emil J., assignor to Magnus Harmonica Corporation, Newark, N. J. Key assembly for musical instruments. 2,609,721, Sept. 9.

Enterprise Railway Equipment Company, assignee: *See*— Dorey, George B. Koranda, Clarence J.

Epps, Thomas B., Boston, Mass. Apparatus for combining materials. 2,609,969, Sept. 9.

Eversole, William G., and W. Drost, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Synthetic rutile and making. 2,610,129, Sept. 9.

Ervine, Denis W.: *See*— Putman, John H., Scott, and Ervine.

Etablissements Emel, assignee: *See*— Laurent, François.

Even-Pul Foundations, Inc., assignee: *See*— Lo Cascio, Jack J.

Evenson, Ernest, East Grand Forks, Minn. Cultivator attachment for tractors. 2,609,741, Sept. 9.

Eyelet Specialty Company, The, assignee: *See*— Book, Frederick R., Jr.

F-D-S Manufacturing Company, Inc., assignee: *See*— Stevenson, Samuel B.

FKG Fritz Kesselring Gerätebau Aktiengesellschaft, assignee: *See*— Wettstein, Erwin.

Fabric Fire Hose Company, assignee: *See*— Cole, Charles S.

Falcone, Anthony, Newark, N. J. Inhaler. 2,609,817, Sept. 9.

Falkenberg, Douglass R., Lakewood, Ohio. Drapery pleating. 2,609,873, Sept. 9.

Farkas, Thomas P., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impulse counting relay and system therefor. 2,610,242, Sept. 9.

Farkas, Walter G.: *See*— Flexser, Leo A., and Farkas.

Farrell, Aloysius L., Bloomfield, Conn. Hunter's glove or mitten. 2,609,543, Sept. 9.

Farrell, Robert A., Menasha, and W. G. Mueller, Neenah, assignors to Marathon Corporation, Rothschild, Wis. Apparatus for sealing containers. 2,609,735, Sept. 9.

Faucheux, Eugène, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Faucet. 2,610,063, Sept. 9.

Fauske, Sig C.: *See*—
Mahan, John E., and Fauske.

Faxen, Per Torsten: *See*—
Wilkenson, Erik A., and Faxen.

Fay, Lew: *See*—
Newell, Strohm, and Fay.

Federal Telephone and Radio Corporation, assignee: *See*—
Brandt, Walter.

Felerabend, Erich H., North Royalton, Ohio. Garbage can cover holder or handle. 2,610,015, Sept. 9.

Fein, Martin L.: *See*—
Fisher, Charles H., and Fein.

Ferber, Fred, Hohokus Township, Bergen County, N. J. Ball staking machine for pen tips. 2,609,774, Sept. 9.

Ferro Corporation, assignee: *See*—
Skinner, Robert E., and McIntyre.

Fichtmueller, Frederick A., Staten Island, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J. Method and apparatus for bending pipe. 2,609,859, Sept. 9.

Field, George T. J.: *See*—
John, David H. O., and Field.

Field, Oscar S., and S. N. Wight, assignors to General Railway Signal Company, Rochester, N. Y. Circuit controlling altimeter. 2,609,684, Sept. 9.

Fields, Glenn R., Gem, and S. S. Bumpus, Eureka, Kans. Dump trailer. 2,610,087, Sept. 9.

Filtaire Products, Inc., assignee: *See*—
Millar, Warren G.

Fink, Charles H., Midland, Tex. Fire alarm. 2,609,785, Sept. 9.

Finkelstein, William, Philadelphia, Pa. Baggage handle. 2,609,898, Sept. 9.

Fischer, Karl A., Washington, D. C., and O. F. Hecht, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Army. Moisture control of solidified fuel. 2,610,113, Sept. 9.

Fischer, Karl A., Washington, D. C., and O. F. Hecht, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Army. Solidification of liquid fuel. 2,610,114, Sept. 9.

Fisher, Charles H., New Orleans, La., and M. L. Fein, Riverside, N. J., assignors to the United States of America as represented by the Secretary of Agriculture. Esters of acylated hydroxycarboxylic acids. 2,610,196, Sept. 9.

Fiske, Milan D., Schenectady, N. Y., assignor to General Electric Company. Dielectric wave guide system. 2,610,249, Sept. 9.

Fitzsimmons, Edna M., executrix: *See*—
Fitzsimmons, John T.

Fitzsimmons, John T., deceased, late of Anderson, Ind., by Edna M. Fitzsimmons, executrix, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition apparatus. 2,610,264, Sept. 9.

Fleming, Howard M., Jr.: *See*—
Burkhart, William H., and Fleming.

Fletcher, Irby R., Sr., Opa Locka, Fla. Brake pedal extension for motor vehicles. 2,609,705, Sept. 9.

Flexser, Leo A., Upper Montclair, and W. G. Farkas, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Preparation of riboflavin phosphate intermediates. 2,610,176, Sept. 9.

Flexser, Leo A., Upper Montclair, and W. G. Farkas, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Riboflavin monophosphoric acid ester salts and preparation. 2,610,177, Sept. 9.

Flexser, Leo A., Upper Montclair, and W. G. Farkas, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Producing riboflavyl phosphates. 2,610,178, Sept. 9.

Flexser, Leo A., Upper Montclair, and W. G. Farkas, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Phosphorylation of riboflavin. 2,610,179, Sept. 9.

Florence, Noel S., Brooklyn, N. Y. Container for paste, holder therefor, and cooperative combination brush and cover for use therewith. 2,609,562, Sept. 9.

Floyd, Don E., Minneapolis, Minn., assignor to General Mills, Inc. Synthesis of amino acids. 2,610,212, Sept. 9.

Food Engineering Corporation, assignee: *See*—
Brous, Donald W.

Food Machinery and Chemical Corporation, assignee: *See*—
Daugherty, George W.
Heard, Reginald H.

Forman, Benjamin G., assignor to Wilke Research Corporation, Brooklyn, N. Y. Wire insulation stripper. 2,609,716, Sept. 9.

Foster Wheeler Corporation, assignee: *See*—
Blizard, John.
Kilsby, Edward R.

Fowler, Girard, Point Pleasant, W. Va. Power factor controlling and regulating device. 2,610,317, Sept. 9.

Fram Corporation, assignee: *See*—
Rodman, Clarke A., and Tewksbury.

Freedman, Rudolph, University City, and J. E. Dube, Chesterfield, assignors, by mesne assignments, to Alco Valve Co., St. Louis, Mo. Windshield wiper system. 2,609,795, Sept. 9.

Fricke, Guy C., Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Fluid purifying device. 2,609,932, Sept. 9.

Friedel, Howard H., Westlake, Ohio, assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Precipitation of zirconium hydroxide in a readily filterable form. 2,610,104, Sept. 9.

Fulke, Frank L.: *See*—
Elles, Albert C., and Fulke.

Fulke, Frank L., Terre Haute, Ind. Speed wrench. 2,609,718, Sept. 9.

Fuller, Lawrence C., Jr., Ardmore, Pa., assignor to Radio Corporation of America. Audio limiter circuits. 2,610,252, Sept. 9.

Garand, John C., Springfield, Mass. Securing liners to firearm. 2,609,631, Sept. 9.

Gardner, Adryl W., and P. Wrockloff, assignors to Gardner-Byrne Construction Company, Redlands, Calif. Grade striker. 2,609,620, Sept. 9.

Gardner Board and Carton Co., The, assignee: *See*—
Ringler, William A.

Gardner-Byrne Construction Company, assignee: *See*—
Gardner, Adryl W., and Wrockloff.

Garman, Raymond L.: *See*—
McKendry, John K., and Garman.

Garner, Lloyd P., and W. N. Parker, Lancaster, Pa., assignors to Radio Corporation of America. Thin-walled tubing for use as electrode structures of electron discharge devices. 2,610,304, Sept. 9.

Garnier, Paul, Lyon, France, vested in the Attorney General of the United States. Clutch mechanism. 2,609,903, Sept. 9.

Garreau, Armand J., Newport, R. I. End connector for flexible bracelets. 2,609,584, Sept. 9.

Garrett Corporation, The, assignee: *See*—
Brown, Norman M., Jr., and Shank.

Gaston, William D.: *See*—
Horton, Arless J., and Gaston.

Gates, Charles C., Jr., Denver, Colo. Leg support for wheel chairs. 2,609,864, Sept. 9.

Gaudreau, Richard J., Longmeadow, assignor to Production Tool & Die Co., Inc., Springfield, Mass. Hydraulic die. 2,609,775, Sept. 9.

Gauldie, Kenneth, Toronto, Ontario, Canada. Power transmission in jaw crushers. 2,609,994, Sept. 9.

Gebhart, Arthur L., Union, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Recovery of unsaponifiables from concentrates containing the same. 2,610,195, Sept. 9.

General Control Company, assignee: *See*—
Kelleigh, Waldo J.

General Electric Company, assignee: *See*—
Bayer, Charles H.
Brown, Joshua R. C., Jr.
Buckland, Bruce O., and Morey.
Caldwell, Andrew H.
Clark, Edward B.
Devine, George F.
Fiske, Milan D.
Glitzendanner, Louis G., and Langenwalter.
Hansen, Charles A., Jr.
Horvay, Julius B.
Jellinek, Ernest.
Lemmerman, Harold H.
Ruscoe, Garnet W.
Sear, Arthur W.
Zaloudek, Theodore V.

General Mills, Inc., assignee: *See*—
Floyd, Don E.
Moe, Owen A., and Warner.
Van Guilder, Walter.

General Motors Corporation, assignee: *See*—
Blomberg, Martin P.
Brill, William E.
Bychinsky, Wilfred A.
Doughty, Robert T.
Fitzsimmons, John T.
Marvin, John T., and McFadden.
Wernig, James H.
Whelchel, Rupert C.

General Precision Laboratory Incorporated, assignee: *See*—
McKendry, John K., and Garman.

General Railway Signal Company, assignee: *See*—
Field, Oscar S., and Wight.

General Register Corporation, assignee: *See*—
Helsel, Reuben H.

Getchell, Raymond E., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Apparatus and method of embossing thermoplastic sheets. 2,609,568, Sept. 9.

Gevaert Photo-Producten N. V., assignee: *See*—
De Smet, Polydoor F., and van Dormael.

Gibson, Marshall D., Webster Groves, Mo. Wall plug. 2,610,013, Sept. 9.

Gibson Refrigerator Company, assignee: *See*—
Rutenber, Edwin A., and Tillapaugh.

Gilbert, A. C., Company, The, assignee: *See*—
Morse, Shirley P.

Gilbert, Leon: *See*—
Burtt, Horatio H., Koenig, and Gilbert.

Gill, Lowell O.: *See*—
Casey, James P., Gill, and Sherman.

Gillerstrom, Hilmer A., Arcadia, Calif., assignor to Independent Pneumatic Tool Co., Aurora, Ill. Drill cradle. 2,610,030, Sept. 9.

Gilron Products Company, assignee: *See*—
Whitbeck, Roland A.

Glitzendanner, Louis G., and D. F. Langenwalter, Schenectady, N. Y., assignors to General Electric Company. Function recorder. 2,610,102, Sept. 9.

Glassford, Fred, Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Sealing structure. 2,609,893, Sept. 9.

Gleason, Thomas C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Air flue in refrigerating apparatus. 2,609,671, Sept. 9.

Glidden Company, The, assignee: *See*—
Drapeau, Joseph E., Jr., Smith, and Halsted.

Gluesenkamp, Earl W., Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Porous composition utilizing N-carboxylic acid anhydrides of amino carboxylic acids. 2,610,157, Sept. 9.

Gluesenkamp, Earl W., Centerville, and J. Dazzi, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Compositions of vinyl chloride resins and aromatic esters of sulfonated alkanes. 2,610,164, Sept. 9.

Gluesenkamp, Earl W., Centerville, and J. Dazzi, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Compositions of vinyl chloride resins and aromatic esters of sulfonated alkanes. 2,610,165, Sept. 9.

Goddard, Esther C., executrix: *See*—
Goddard, Robert H.

Goddard, Robert H., deceased, Annapolis, Md.; E. C. Goddard, executrix, Paxton, Mass, assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Target type combustion chamber having a closed end portion receiving conical fuel and oxidizer sprays. 2,609,658, Sept. 9.

Goddard, Robert H., deceased, Annapolis, Md.; E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Admission valve mechanism for resonance combustion chambers. 2,610,064, Sept. 9.

Goff, Loyal G., assignee: *See*—
Phillips, Norman E.

Goldmark, Peter C., New Canaan, Conn., and C. H. Youngquist, Brooklyn, assignors to Columbia Broadcasting System, Inc., New York, N. Y. Phonograph adaptor for long playing records. 2,610,258, Sept. 9.

Goldsmith, Alfred N., New York, N. Y., assignor to Radio Corporation of America. Composite picture television. 2,610,246, Sept. 9.

Goldsworthy, Norman H., assignor to Continental Can Company, Inc., New York, N. Y. Cover stack height controlling means. 2,609,779, Sept. 9.

Goodhue, Lyle D., and C. E. Tissol, Bartlesville, Okla., assignors to Phillips Petroleum Company. Herbicide and defoliant. 2,610,116, Sept. 9.

Goodman Manufacturing Company, assignee: *See*—
Lindgren, Frank A.

Goodrich B. F., Company, The, assignee: *See*—
Krupp, Carroll P.

Goodyear, Charles H., deceased, Stockton, Calif.; H. W. Goodyear, executrix of said C. H. Goodyear. Parlor bowling game. 2,610,055, Sept. 9.

Goodyear, Helen W., executrix: *See*—
Goodyear, Charles H.

Gordon, Hamilton: *See*—
Prendergast, Charles S., R. S., Dixey, and Gordon.

Gotthardt, Henry R., assignor to Logan Co., Inc., Louisville, Ky. Power driven roller conveyer. 2,609,917, Sept. 9.

Graham, Harold J., Highland Park, assignor to Graham Manufacturing Corporation, Detroit, Mich. Pneumatic welding gun and associated system. 2,610,278, Sept. 9.

Graham Manufacturing Corporation, assignee: *See*—
Graham, Harold J.

Grandgirard, Henri, Puteaux, assignor to Societe des Brevets Kegresse, S. E. K., Paris, France. Articulation of track links of endless tracks. 2,610,094, Sept. 9.

Gray, Worth, Dumas, Tex., assignor to Phillips Petroleum Company. Production of ammonia. 2,610,106, Sept. 9.

Greeson, Orion S., Elizabeth, N. J. Plug and receptacle. 2,610,266, Sept. 9.

Grimm, Joseph A., Milwaukee, Wis. Machine for cutting mock chicken legs. 2,609,564, Sept. 9.

Griswold, Augustus W., assignor, to Taylor Instrument Companies, Rochester, N. Y. Control system for an automotive type of pumper. 2,609,755, Sept. 9.

Groat, Francis P., assignor to The Magee Carpet Company, Bloomsburg, Pa. Weaving pile fabrics. 2,609,839, Sept. 9.

Groat, Lucien C., Canton, Ill. Overload release coupling for electrically driven earth augers. 2,609,674, Sept. 9.

Gruenberg, Fritz, assignee: *See*—
Joksch, Rudolf.

Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Making expanded metal gratings. 2,609,781, Sept. 9.

Grundvig, Knut E., Chicago, Ill., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Crane boom suspension. 2,609,940, Sept. 9.

Gruner, Adolph V., Pittsburgh, Pa. Crossbow. 2,609,810, Sept. 9.

Gudgeon, Ronald P., Luton, England. Intermittently revolvable table laundry press. 2,609,624, Sept. 9.

Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—
Goddard, Robert H.

Gulf Research & Development Company, assignee: *See*—
Pigott, Reginald J. S.

Gulick, David E., Kittanning, assignor to Eljer Co., Ford City, Pa. Handle and operating lever assembly for flushing tanks. 2,609,546, Sept. 9.

Gutton, Henri, Paris, France, assignor to Compagnie Generale de Telegraphie Sans Fil. Magnetron tube for the transmission of ultrashort waves. 2,610,309, Sept. 9.

Hanke, Paul T., assignor to Crane Packing Company, Chicago, Ill. Rotary mechanical seal with telescoping parts. 2,610,075, Sept. 9.

Haas, Otto R. Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lubricating apparatus. 2,609,891, Sept. 9.

Hadfield, Joseph M., Chicago, Ill. Handle for screw drivers and similar tools. 2,609,851, Sept. 9.

Hagemeyer, Hugh J., Jr., and D. C. Hull, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Producing aldehyde esters. 2,610,203, Sept. 9.

Hall, Alan M., Leicester, England, assignor to B. B. Chemical Co., Boston, Mass. Stabilization of latex and stabilized compositions. 2,610,158, Sept. 9.

Hall, Alan M., Leicester, England, assignor to B. B. Chemical Co., Boston, Mass. Stabilizong latex and stabilized latex compositions. 2,610,216, Sept. 9.

Hull, Roland A., Dunwoody, Ga., assignor to Tennessee Valley Authority. Centrifuge. 2,609,617, Sept. 9.

Hall, William M., Lexington, Mass., assignor to the United States of America as represented by the Secretary of the Navy. System of radio echo detection. 2,610,320, Sept. 9.

Halliburton, Erle P., Los Angeles, Calif., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Multiple zone testing. 2,609,878, Sept. 9.

Halliburton Oil Well Cementing Company, assignee: *See*—
Halliburton, Erle P.

Hallum, Andrew, Lanesboro, Minn. Torch for heating watermelon hills. 2,609,641, Sept. 9.

Halsted, Richard J.: *See*—
Drapeau, Joseph E., Jr., Smith, and Halsted.

Ham, George E., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Copolymerizing acrylonitrile and vinylidene chloride at constant reflux temperature. 2,610,173, Sept. 9.

Hamilton, Wallace, assignor to Consolidated Car-Heating Company, Inc., Albany, N. Y. Sensitive door edge device. 2,610,268, Sept. 9.

Hamilton Watch Company, assignee: *See*—
Vermot, Henri E.

Hanchett, George D., Jr., Millburn, N. J., assignor to Radio Corporation of America. Signal responsive receiver. 2,610,293, Sept. 9.

Hanington, Charles A., Freeport, N. Y. Tape dispenser. 2,609,877, Sept. 9.

Hansen, Charles A., Jr., Scotia, N. Y., assignor to General Electric Company. X-ray photometer. 2,610,301, Sept. 9.

Hansen, Jack, Lysaker, Norway. Clothes peg. 2,609,579, Sept. 9.

Hansen, John H.: *See*—
Wilson, John A., and Hansen.

Hansen, William W., Stanford University, R. H. Varian, Los Angeles, Calif., and S. F. Varian, Garden City, N. Y., assignors to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif. Tunable cavity resonator electron discharge device. 2,610,307, Sept. 9.

Harby, Jackson M., Jr., Seattle, Wash. Ski binding. 2,610,067, Sept. 9.

Harden, Faith E., Chicago, Ill. Ventilated sewing thimble. 2,609,978, Sept. 9.

Harmon, Cline H., assignor to Waterloo Foundry Company, Waterloo, Iowa. Muffler with concave baffles. 2,609,886, Sept. 9.

Harris, Clifford G., Binghamton, N. Y. Underwater sampling thermometer. 2,609,689, Sept. 9.

Harshberger, Russell P., Altadena, Calif. Vibrating safety razor with yieldably mounted blade guard. 2,609,602, Sept. 9.

Hartig, Walter, Scotch Plains, and J. J. Smith, Fort Lee, assignors to Pabst Brewing Company, Newark, N. J. Bottle sorting machine. 2,609,926, Sept. 9.

Haskelite Manufacturing Corporation, assignee: *See*—
Potchen, Joseph A.

Hayes, Kenyon J., assignor to Eaton Laboratories, Inc., Norwich, N. Y. Series of nitrofuran compounds comprising the azomethines of 5-nitro-2-acyl furans with 1-amino-hydantoins. 2,610,181, Sept. 9.

Hazeltine Research, Inc., assignee: *See*— Wheeler, Harold A.

Head, Ralph B., Denver, Colo. Golf cart seat. 2,610,072, Sept. 9.

Heard, Reginald H., Riverside, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Jigging apparatus for industrial nailing machines. 2,609,536, Sept. 9.

Hecht, Otto F.: *See*— Fischer, Karl A., and Hecht.

Heckendorn, Alphonse: *See*— Widmer, Willi, Schuetz, and Heckendorn.

Heintz Manufacturing Company, assignee: *See*— Lambert, Francis M.

Heller, William, Packanack Lake, assignor to Schock, Gusmer & Co., Inc., Hoboken, N. J. Heater for wort kettles. 2,610,036, Sept. 9.

Helsel, Reuben H., assignor to General Register Corporation, Long Island City, N. Y. Ticket printing and issuing machine. 2,609,746, Sept. 9.

Henry, Gerald B., assignor to Henry and Henry, Inc., Buffalo, N. Y. Hot fudge dispenser. 2,609,966, Sept. 9.

Henry and Henry, Inc., assignee: *See*— Henry, Gerald B.

Hercules Powder Company, assignee: *See*— Bohlman, Walter S.
Klug, Eugene D.

Heritage, Clark C., Cloquet, assignor to Wood Conversion Company, St. Paul, Minn. Manufacture of resin-bound fiber structure. 2,610,138, Sept. 9.

Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Method of and system for obtaining a standard low-frequency. 2,609,654, Sept. 9.

Hesch, Bernadine, assignee: *See*— Hesch, William, Sr.

Hesch, William, Sr., assignor to Bernadine Hesch, Santa Fe, N. Mex. Transmission-differential assembly. 2,609,703, Sept. 9.

Hey, Geoffrey L.: *See*— Hopf, Peter P., and Hey.

Highet, Hugh C. and F. E. Salt, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of methyl lactate. 2,610,206, Sept. 9.

Hill, Noel C., Williamsburg, Ky. Bored casting handling device. 2,610,082, Sept. 9.

Hoblick, Benjamin M., Fresno, assignor to Blake, Moffitt & Towne, San Francisco, Calif. Apparatus and method of making ventilated fruit cushions. 2,610,134, Sept. 9.

Hodgson, Howard E., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Brake shoe. 2,609,895, Sept. 9.

Hoffman, Harry J., Detroit, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesive cement solution containing a sulfur-cured rubber. 2,610,162, Sept. 9.

Hoffman, John R.: *See*— Humfeld, Harry, Aeschlimann and Hoffman.

Hoffmann-La Roche Inc., assignee: *See*— Flexser, Leo A., and Farkas.
Lindlar, Herbert and Rüegg.
Surmatis, Joseph D.

Holland Hitch Company, assignee: *See*— Ketel, Henry.

Honeycutt, Earl M., Claymont, Del., assignor to Sun Oil Company, Philadelphia, Pa. Solvent extraction of naphthenic acids. 2,610,209, Sept. 9.

Honnig, Roland W., Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Molding magnesia insulation material. 2,609,733, Sept 9.

Hood, Edwin E., Elmira, N. Y., assignor to Bendix Aviation Corporation. Two-speed gearing for bicycles. 2,609,712, Sept. 9.

Hooker, Donald E., Skokie, assignor to R. T. Moloney, Chicago, Ill. Oscillating ball reprojector. 2,610,058, Sept. 9.

Hooker, Donald E., Skokie, and R. H. Breither, Mount Prospect, assignors to R. T. Moloney, Chicago, Ill. Ball game switch. 2,610,277, Sept. 9.

Hopf, Peter P., Orpington, and G. L. Hey, Luton, assignors to Ward Blenkinsop & Company Limited, London, England. Compositions and method for reducing the loss of crop by frost damage to flowering plants. 2,610,117, Sept. 9.

Horton, Arless J., and W. D. Gaston, Hickory, N. C. Spring structure. 2,609,865, Sept. 9.

Horvay, Julius B., Schenectady, N. Y., assignor to General Electric Company. Adjustable magnetic pressure valve. 2,609,835, Sept. 9.

Houldsworth, Wallace M., Royal Oak, Mich. Corn cutting device. 2,609,852, Sept. 9.

Hubbard, John R., assignor to Antioch Bookplate Company, Yellow Springs, Ohio. Badge. 2,609,629, Sept. 9.

Hull, David C.: *See*— Hagemeyer, Hugh J., Jr., and Hull.

Humfeld, Harry, Berkeley, E. Aeschlimann, Oakland, and J. R. Hoffman, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Foam breaker for submerged culture fermentor. 2,610,155, Sept. 9.

Hungerford, Gerard J.: *See*— Bond, Robert D., and Hungerford.

Hunt, Warren L., Aspers, Pa. Fabric-reinforced bowling pin. 2,610,057, Sept. 9.

Husted, William D., Shavertown, Pa. Container opener. 2,609,600, Sept. 9.

Husted, William D., Shavertown, Pa. Can opener. 2,609,601, Sept. 9.

Hyde, James F., and W. H. Daudt, Corning, N. Y., assignors to Dow Corning Corporation, Midland, Mich. Polymerization of thermoplastic siloxanes. 2,610,169, Sept. 9.

Hydril Corporation, assignee: *See*— Knox, Granville S.

Imperial Chemical Industries Limited, assignee: *See*— Taylor, James and Thomson.

Independent Pneumatic Tool Co., assignee: *See*— Gillerstrom, Hilmer A.

Industrial Patent Corporation, assignee: *See*— Wales, Nathaniel B.

Industrial Rayon Corporation, assignee: *See*— Corey, Lorin A.
Eidman, Albert W.

Ingram, Joseph R., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Condensing a 4-amino polyaryl methane and acetone. 2,610,172, Sept. 9.

Instant Milk Cooling Company, Inc., assignee: *See*— Lundvall, Elmer E., Becker and Eckstein.

International Business Machines Corporation, assignee: *See*— Dickinson, Arthur H.
Dodge, Ronald D.
Eichorn, Robert N.

International Minerals & Chemical Corporation, assignee: *See*— Tong, Jerry E., and McBiles.

International Standard Electric Corporation, assignee: *See*— Clark, Gilbert R.
Deloraine, Edmond M., and Reeves.
den Hertog, Martinus, and Kruithof.
Schreiber, Louis J. J.
Roberton, James S. P.
Touraton, Emile, and Dumousseau.
Touraton, Emile, and Zwobada.
Watts, Chester B., Jr.

Iron Fireman Manufacturing Company, assignee: *See*— Judson, Albert L.

Iron Fireman Manufacturing Company, assignee: *See*— Wright, Richard C.

Irwin, Leland S., Ritzville, Wash. Skillet cover. 2,609,960, Sept. 9.

Isom, Warren R., West Collingswood, N. J. assignor to Radio Corporation of America. Shutter for motion-picture projectors. 2,609,724, Sept. 9.

Isom, Warren R., West Collingswood, and D. R. Andrews, Collingswood, N. J., assignors to Radio Corporation of America. Variable light interrupting shutter. 2,609,725, Sept. 9.

Jackson, Honel A., Warren, Mich. Goggles. 2,609,538, Sept. 9.

Jacobs, Samuel S.: *See*— Reid, George C., and Jacobs.

Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Door handle. 2,610,080, Sept. 9.

James, William E.: *See*— Bauer, Ernest K., and James.

Jandasek, Joseph, assignor to Chrysler Corporation, Highland Park, Mich. Hydrodynamic transmission. 2,609,706, Sept. 9.

Jansson, Edvin E.: *See*— Sahlin, Börje, and Jansson.

Jeffrey, John E., Shelton, Wash., assignor to Atlas Powder Company, Wilmington, Del. Delay electric blasting cap. 2,609,752, Sept. 9.

Jeffrey Manufacturing Company, The, assignee: *See*— Lee, Arthur L.
Moon, Sterling C.

Jellinek, Ernest, Schenectady, N. Y., assignor to General Electric Company. Photoelectric detector. 2,610,232, Sept. 9.

Jenny, Walter, Reinach, near Basel, and W. Kern, Sissach, assignors to Ciba Limited, Basel, Switzerland. Vat dyestuffs. 2,610,194, Sept. 9.

Jensen, Homer: *See*— Klaasse, James M., and Jensen.

John, David H. O., Hornchurch, and G. T. J. Field, London, assignors to May & Baker Limited, Dagenham, England. Silver halide developer containing 2-(β-hydroxyethyl) aminophenol and p-hydroxyphenylamino acetic acid. 2,610,122, Sept. 9.

Johns-Manville Corporation, assignee: *See*— Honnig, Roland W.

Johnsen, Clement C.: *See*— Johnsen, Clement F., and C. C.

Johnsen, Clement F., Santa Monica, Calif., and C. C., said C. F. Johnsen assignor to Roy C. Johnsen, Phoenix, Ariz. Machine for packing buns and the like in cartons. 2,609,645, Sept. 9.

Johnsen, Roy C., assignee: *See*— Johnsen, Clement F., and C. C.

Johnson, Alden O.: *See*— Johnson, Gordon C., and A. O.

Johnson, Charles R., Los Angeles, Calif. Fountain paintbrush. 2,609,558, Sept. 9.

Johnson Gage Company, The, assignee: *See*— Johnson, Stanley G.

Johnson, Gordon C., and A. O., Minneapolis, Minn., assignors to John Oster Manufacturing Company, Racine, Wis. Lather machine. 2,610,090, Sept. 9.

Johnson, Matthey & Company Limited, assignee: *See*— Kerridge, Frank E., and Couper.

Johnson, Robert W., Lakeland, Fla. Fluid dispensing machine. 2,609,982, Sept. 9.

Johnson, Stanley G., West Hartford, assignor to The Johnson Gage Company, Bloomfield, Conn. Aligned thread gauge. 2,609,614, Sept. 9.

Johnson, William, Vancouver, British Columbia, Canada. Door, sash and the like. 2,609,573, Sept. 9.

Joksch, Rudolf, assignor of one-half to Fritz Gruenberg, Vienna, Austria. Electrical automobile safety device. 2,610,238, Sept. 9.

Jones, Harry C., Magnolia, Ark. Railroad track skeletonizing machine. 2,609,619, Sept. 9.

Jones, Herbert T., Harrisburg, Pa. Vacuum grip rail anchor. 2,609,991, Sept. 9.

Jourdain, André P., assignor to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme, Liege, Belgium. Machine movable in all directions for driving piles and the like. 2,609,667, Sept. 9.

Joy Manufacturing Company, assignee: *See*— Collins, Samuel C.
Russell, John D.

Judson, Albert L., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Safety timing switch. 2,610,273, Sept. 9.

Kahn, Benjamin, Gadsden, Ala. Stop-motion for pile-weaving machines. 2,609,847, Sept. 9.

Kaiser Gypsum Company, assignee: *See*— Riddell, Wallace C., and Kirk.

Kaplan, Morris L., assignor to The Shirtcraft Company, Inc., Hazleton, Pa. Shirt. 2,609,541, Sept. 9.

Kaplan, Morris L., assignor to The Shirtcraft Co., Inc., Hazleton, Pa. Zipper shirt. 2,609,542, Sept. 9.

Kast, George, assignor to Syntron Company, Homer City, Pa. Electronic control for gravimetric feeders. 2,609,965, Sept. 9.

Kaybe Manufacturing Company, assignee: *See*— Kramer, Augustus and J.

Kee Lox Manufacturing Company, assignee: *See*— Steele, George R.

Keeler Brass Company, assignee: *See*— Jakeway, Gerald V.

Kegan, Albert I., Chicago, Ill., assignor to S. W. Kipnis, trustee for J., D., and F. Kegan. Dictating machine signal. 2,610,061, Sept. 9.

Kegan, Albert I., and F. S. Ajero, Chicago, Ill., assignors to S. W. Kipnis as trustee for J., D., and F. Kegan. Apparatus for resurfacing plastic record belts and the like. 2,609,789, Sept. 9.

Kegan, Daniel, assignee: *See*— Kegan, Albert I.
Kegan, Albert I., and Ajero.

Kegan, Franklin, assignee: *See*— Kegan, Albert I.
Kegan, Albert I., and Ajero.

Kegan, Judith, assignee: *See*— Kegan, Albert I.
Kegan, Albert I., and Ajero.

Kelleigh, Waldo J., Wayland, assignor to General Control Company, Boston, Mass. Switch actuating mechanism. 2,610,274, Sept. 9.

Keller, Charles L., Winnetka, Ill., assignor to The Richardson Company, Lockland, Ohio. Indicating vent plug for electric storage batteries. 2,610,221, Sept. 9.

Keller, Kaufman T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle door with spare tire compartment. 2,610,083, Sept. 9.

Kellogg, M. W., Company, The, assignee: *See*— Dalton, Thomas N.
Fichtmueller, Frederick A.
Rossheim, David B.

Kendall, Harold M., Potsdam, N. Y. Machine for cleaning receptacles. 2,609,916, Sept. 9.

Kern, Walter: *See*— Jenny, Walter, and Kern.

Kerridge, Frank E., and C. S. Couper, assignors to Johnson, Matthey & Company Limited, London, England. Decoration of heat-resisting bases, such as glass, earthenware, and china. 2,610,126, Sept. 9.

Kerridge, Frank E., and C. S. Couper, assignors to Johnson, Matthey & Company Limited, London, England. Silk-screen printing paste. 2,610,127, Sept. 9.

Kerridge, Frank E., and C. S. Couper, assignors to Johnson, Matthey & Company Limited, London, England. Silk-screen printing paste. 2,610,128, Sept. 9.

Kessel, William P., and J. F. Shafer, San Francisco, Calif., said Shafer assignor to said Kessel. Self-powering fluid brake. 2,609,894, Sept. 9.

Kestell, Thomas A., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for shaping uppers over lasts. 2,609,552, Sept. 9.

Ketel, Henry, assignor to Holland Hitch Company, Holland, Mich. Fifth wheel side release locking mechanism. 2,610,069, Sept. 9.

Kiekhaefer, Elmer C., Cedarburg, Wis. Underwater exhaust and drive shaft housing for outboard motors. 2,609,782, Sept. 9.

Kiekhaefer, Elmer C., Cedarburg, Wis. Gear case and propeller shaft bearing for outboard motors. 2,609,783, Sept. 9.

Kiekhaefer, Elmer C., Cedarburg, Wis. Internal-combustion engine and cooling system therefor. 2,609,801, Sept. 9.

Kilsby, Edward R., Newark, N. J., assignor to Foster-Wheeler Corporation, New York, N. Y. Furnace for heating fluids. 2,609,814, Sept. 9.

Kindelberger, James H., Pacific Palisades, Calif., assignor to North American Aviation, Inc. Jaw holder. 2,609,860, Sept. 9.

Kindorf Co., The, assignee: *See*— Kindorf, Harry L. and O. C.

Kindorf, Harry L. and O. C., assignors to The Kindorf Co., San Francisco, Calif. Adjustable beam clamp. 2,609,582, Sept. 9.

Kindorf, Orlan C.: *See*— Kindorf, Harry L. and O. C.

King, Alexander, Carman, Manitoba, Canada. Grain and weed reclaiming accessory. 2,609,929, Sept. 9.

King-Seeley Corporation, assignee: *See*— Sivacek, Emil E.

Kipnis, Samuel W., trustee, assignee: *See*— Kegan, Albert I.

Kipnis, Samuel W., trustee, assignee: *See*— Kegan, Albert I.

Kipnis, Samuel W., trustee, assignee: *See*— Kegan, Albert I., and Ajero.

Kirk, George B.: *See*— Riddell, Wallace C., and Kirk.

Kirwan, John O., Bloomfield, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Portable altimeter. 2,609,691, Sept. 9.

Kite, Clarence L., Radnor, Ind. Underinflation dual tire alarm. 2,609,784, Sept. 9.

Klaasse, James M., Troy, N. Y., and H. Jensen, Philadelphia, Pa. Method and apparatus for conducting geophysical surveys from an aircraft. 2,610,226, Sept. 9.

Klagsbrunn, Josef, assignor to E. Markus, Geneva, Switzerland. Centrifugal mill. 2,609,995, Sept. 9.

Klein, Cletus A., Caro, Mich. Tow bar. 2,610,070, Sept. 9.

Klug, Eugene D., assignor to Hercules Powder Company, Wilmington, Del. Ethyl oxyethyl cellulose derivatives and preparation of the same. 2,610,180, Sept. 9.

Knox, Granville S., assignor to Hydril Corporation, Los Angeles, Calif. Control head and blow-out preventer. 2,609,836, Sept. 9.

Koci, Jerry C., Riverside, assignor to Chicago Coin Machine Co., Chicago, Ill. Pin ball game. 2,610,059, Sept. 9.

Koenig, Eldo C.: *See*— Beckwith, Sterling, and Koenig.

Koenig, William E.: *See*— Doering, William A., and Koenig.

Koenig, William W.: *See*— Burtt, Horatio H., Koenig, and Gilbert.

Kofoid, Melvin J., Corvallis, assignor to Northwest Nut Growers, Dundee, Oreg. Feeding, positioning, and orienting mechanism. 2,609,942, Sept. 9.

Kollsch, Emil, New York, N. Y., assignor to Continental Silver Co., Inc. Electric percolator. 2,610,283, Sept. 9.

Kollsch, Emil, New York, N. Y., assignor to Continental Silver Co., Inc. Electric percolator. 2,610,284, Sept. 9.

Kollsman Instrument Corporation, assignee: *See*— Andresen, John H., Jr.

Kompart, Walter W., Steubenville, Ohio, assignor to National Steel Corporation. Electroplating apparatus for moving strip. 2,610,146, Sept. 9.

Koppers Company, Inc., assignee: *See*— Lavely, Paul H.

Koranda, Clarence J., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Door closing and locking means for coal cars. 2,609,758, Sept. 9.

Kordsiemon, William M., Quincy, Ill. Malleableizing machine. 2,610,135, Sept. 9.

Korski, Frank, Maplewood, assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Core construction for electrical equipment. 2,610,225, Sept. 9.

Kortum, Robert E.: *See*— Delf, George A., and Kortum.

Kosmin, Milton, and J. M. Butler, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Esters of polymers of maleic anhydride and beta-mercaptoethanol and process. 2,610,202, Sept. 9.

Kramer, Augustus, Brooklyn, and J. Kramer, Ozone Park, assignors to Kaybe Manufacturing Company, Brooklyn, N. Y. Automatic pattern control for sewing machines. 2,609,769, Sept. 9.

Kramer, Jack: *See*— Kramer, Augustus and J.

Kregleswski, Edward, Poznan, Poland. Exact placing of printing plates, made of rubber or similar material, on printing cylinders or flat printing plate supports. 2,609,749, Sept. 9.

Kronquist, Alfred J., Los Angeles, Calif. Portable mortis cutting tool. 2,609,849, Sept. 9.

Kruger, Cyril, New York, N. Y. Necktie rack. 2,609,934, Sept. 9.

Kruger, Cyril, New York, N. Y. Necktie rack. 2,609,935, Sept. 9.

Kruithof, Jakob: *See*—
Den Hertog, Martinus, and Kruithof.

Krupp, Carroll P., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Protective case for inflatable articles. 2,609,549, Sept. 9.

Kuljian, Harry A., Merion, Pa. Filament storing and advancing reel. 2,609,587, Sept. 9.

Květoň, Rudolf, Strelske Hostice, Czechoslovakia. Production of synthetic compositions utilizing horn meal or neat's-foot meal. 2,610,159, Sept. 9.

Lambert, Francis M., Narberth, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Dog spindle assembly. 2,610,079, Sept. 9.

Lambert, Frank, Jr., Lexington, and C. E. Crede, Winchester, Mass., assignors to The Barry Corporation. Vibration isolator. 2,610,017, Sept. 9.

Lambert, Samuel: *See*—
Riebman, Leon, and Lambert.

Landis Tool Company, assignee: *See*—
Baisiger, Harold E., and Williams.

Lang, Karl A., Glenview, assignor to Lindberg Engineering Company, Chicago, Ill. Induction metal melting furnace. 2,610,218, Sept. 9.

Langenwalter, Daniel F.: *See*—
Gitzendanner, Louis G., and Langenwalter.

Larach, Simon, New Brunswick, N. J., assignor to Radio Corporation of America. Humidity sensitive device. 2,609,688, Sept. 9.

Larson, Ralph L., Honolulu, Territory of Hawaii. Cane harvester. 2,609,648, Sept. 9.

Laszlo, Stephen E., assignee: *See*—
Lawrence, Andrew.

Laurent, François, assignor to Etablissements Emel, Paris, France. Object-glass with a variable focal length. 2,609,727, Sept. 9.

Lausch, Elizabeth C., Garfield, N. J. All-purpose garment hanger. 2,609,977, Sept. 9.

Lavely, Paul H., Pittsburgh, Pa., assignor to Koppers Company, Inc. Pusher machine with articulated pusher bar. 2,609,948, Sept. 9.

Lavely, Paul M., Pittsburgh, Pa., assignor to Koppers Company, Inc. Leveler bar and reciprocable frame. 2,609,949, Sept. 9.

Lawrence, Andrew, assignor of one-half to S. E. Laszlo, New York, N. Y. Magazine loader for air guns. 2,609,811, Sept. 9.

Lawrence, Edward A., New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Distillation of fatty acids. 2,610,142, Sept. 9.

Lawson, Raymond H., Algonquin, Ill. Rural mailbox signal means. 2,609,787, Sept. 9.

Layberger, Arthur J., Havertown, assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Hammer mill feed delivery chute, including dust guards. 2,609,996, Sept. 9.

Lazzery, Angelo G.: *See*—
Mackey, Donald, and Lazzery.

Ledbetter, James, Centralia, Ill. Apparatus for constructing concrete floors. 2,609,585, Sept. 9.

Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Loading machine. 2,609,910, Sept. 9.

Lee, Lawrence H., assignee: *See*—
Randell, Glenn E.

Lee, Reynold A., Washington, D. C. Receptacle. 2,609,919, Sept. 9.

Leed, Daniel, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic frequency control circuit. 2,610,297, Sept. 9.

Leeds and Northrup Company, assignee: *See*—
Phillips, William E., and Cranch.

Leitz, Ernst, G. m. b. H., assignee: *See*—
Rinker, Wilhelm, Sanger, and Leitz.

Leitz, Ernst, Jr.: *See*—
Rinker, Wilhelm, Sanger, and Leitz.

Leland Stanford Junior University, The, Board of Trustees of, The, assignee: *See*—
Hansen, William W., Varian, and S. F.

Lemmerman, Harold H., Schenectady, N. Y., assignor to General Electric Company. Adjusting supporting device. 2,610,011, Sept. 9.

Lendved, John W., Milwaukee, and C. I. Longenecker, Wauwatosa, assignors to Chain Belt Company, Milwaukee, Wis. Roller-track mounting for concrete mixer drums and the like. 2,610,043, Sept. 9.

Lens, Georges X.: *See*—
Schreiber, Louis J. J.

Leskiw, Joseph, assignee: *See*—
Lindquist, August T.

Lewis Invisible Stitch Machine Company, assignee: *See*—
Nelson, George W.

Lewis, John H. W., Chaldon, near Caterham, England. Ironing stand. 2,609,626, Sept. 9.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Anderson, Thomas F.

Lilley, Chester G. H., Mount Rainier, Md. Self-ejecting chuck key. 2,609,719, Sept. 9.

Lilly Associates, Inc., assignee: *See*—
Lilly, Clarence, Sr.

Lilly, Clarence, Sr., Lonoke, assignor, by mesne assignments, to Lilly Associates, Inc., Little Rock, Ark. Stabilizer for four-wheeled vehicles. 2,610,073, Sept. 9.

Lindberg Engineering Company, assignee: *See*—
Lang, Karl A.

Lindenmeyer, Ray S., Evanston, Ill. Construction toy connector. 2,609,638, Sept. 9.

Lindgren, Frank A., La Grange, assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting machine. 2,610,048, Sept. 9.

Lindlar, Herbert, and R. Rüegg, Basel, Switzerland, assignors to Hoffmann-La Roche Inc., Nutley, N. J. Manufacture of pentaenes. 2,610,207, Sept. 9.

Lindquist, August T., assignor of one-fourth to R. Nelson, one-fourth to S. Elfstrom, and one-fourth to J. Leskiw, Lancaster, Minn. Swather. 2,609,650, Sept. 9.

Lindsay, Lynn G., St. Paul, Minn. Control for water softening apparatus. 2,610,147, Sept. 9.

Lo Cascio, Jack J., Bayonne, N. J., assignor to Even-Pul Foundations, Inc., New York, N. Y. Brassière with adjustable breast supporting members. 2,609,540, Sept. 9.

Lockheed Aircraft Corporation, assignee: *See*—
Price, Nathan C.

Lockwood Manufacturing Company, The, assignee: *See*—
Darnell, Jesse L., and Cormack.

Logan Co., Inc., assignee: *See*—
Gotthardt, Henry R.

Longenecker, Charles I.: *See*—
Lendved, John W., and Longenecker.

Lonngren, Bruno L.: *See*—
Davidson, Trevor O., and Lonngren.

Love, Jabez A., Silver Creek Township, Cass County, Mich. Tractor mounted disk harrow. 2,609,647, Sept. 9.

Love, Jabez A., Eau Claire, Mich. Plow. 2,609,742, Sept. 9.

Lovell, Clarence A., Summit, N. J. Game racket frame. 2,610,056, Sept. 9.

Ludlow, John L.: *See*—
Watson, Frederick K., Ludlow, and Tallman.

Lundberg, Lennart A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Use of nonionic surface active agent in preparation of anionic resin in bead form. 2,610,156, Sept. 9.

Lundberg, Lennart A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Use of petroleum sulfonates in preparation of resinous condensation products in bead form. 2,610,170, Sept. 9.

Lundvall, Elmer E., Weld County, R. W. Becker, Arapahoe County, and C. Eckstein, Jefferson County, assignors to Instant Milk Cooling Company, Inc., Greeley, Colo. Milk cooling attachment for milking machines. 2,610,034, Sept. 9.

Lundy, Daniel, assignor to American Potash & Chemical Corporation, Trona, Calif. Bromine water feeder. 2,610,148, Sept. 9.

Lykken, Henry G., Minneapolis, Minn. Dehydrating lignite. 2,610,115, Sept. 9.

Lynch, Thomas E., assignor to The Brush Development Company, Cleveland, Ohio. Self-justifying printing device. 2,609,907, Sept. 9.

Macgeorge, William D., Havertown, assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa. Pressure flowmeter. 2,609,831, Sept. 9.

Macgeorge, William D., Havertown, assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa. Weighing system. 2,610,052, Sept. 9.

Machines Automatiques Bardet (Societe Anonyme), assignee: *See*—
Total, Henri.

Mack, Louis P., and R. A. Winters, Chicago, Ill., said Winters assignor to said Mack. Truss. 2,609,815, Sept. 9.

Mackey, Donald, Haddon Heights, and A. G. Lazzery, Oaklyn, N. J., assignors to Radio Corporation of America. Fastening device. 2,610,012, Sept. 9.

Mafera, Frank J., Raymond, N. H. Woven wire fencing. 2,610,009, Sept. 9.

Magee Carpet Company, The, assignee: *See*—
Groat, Francis P.

Magnet Cove Barium Corporation, assignee: *See*—
Van Dyke, Orine W.

Magnus Harmonica Corporation, assignee: *See*—
Ens, Emil J.

Magnusson, Gunnar, assignor to Aktiebolaget Defibrator, Stockholm, Sweden. Defibering presoaked lignocellulose. 2,610,119, Sept. 9.

Maguire, Walter N., executor: *See*—
Maroth, Arthur M.

Mahan, John E., Bartlesville, Okla., and S. C. Fauske, Borger, Tex., assignors to Phillips Petroleum Company. Producing hydroxy sulfolenes. 2,610,192, Sept. 9.

Majneri, Ludwig A., Grosse Pointe, Mich. Ski binding. 2,610,068, Sept. 9.

Mallory, Marion, Detroit, Mich. Apparatus for lubricating shafts. 2,610,096, Sept. 9.

Mallory, P. R., & Co., Inc., assignee: *See*—
Puerner, George O.

Maniaci, Dominic, Detroit, Mich. Positive disappearing knockout pin mechanism. 2,609,777, Sept. 9.

Manotte, Jean, assignee: *See*—
Picard, Lucien.

Mansfield Sanitary Pottery, Inc., assignee: *See*—
Smith, Harry F.

Marathon Corporation, assignee: *See*—
Farrell, Robert A., and Mueller.

Marcellus, James D., Belvidere, Ill. Tap holder. 2,609,551, Sept. 9.

Marchant, Francis C. L., assignor to The Bristol Aeroplane Company Limited, Bristol, England. Transmission gearing for power plants. 2,609,707, Sept. 9.

Marion Chair Company, Inc., The, assignee: *See*—
Pratt, Marion L.

Markle, Edward D., Jefferson City, Mo. Camera focusing device. 2,609,737, Sept. 9.

Marks, Charles B.: *See*—
Tenney, William L., and Marks.

Markus, Ernest, assignee: *See*—
Klagsbrunn, Josef.

Maroth, Arthur M., Wilton, assignor of one-third to K. Christensen, Norwalk, Conn., and one-third to W. C. McTarnahan, New York, N. Y., G. K. McTarnahan, W. N. Maguire and Bankers Trust Company, executors of said W. C. McTarnahan, deceased. Vice jaw face plate. 2,609,717, Sept. 9.

Martin, Catherine H. L. B., widow, heir: *See*—
Schreiber, Louis J. J.

Martin, Charles C., and D. A. Round, assignors to David Round & Son, Cleveland, Ohio. Planetary gearing. 2,609,713, Sept. 9.

Martin, Guy W., Birmingham, Ala. Label guiding attachment for typewriters. 2,609,909, Sept. 9.

Martin, James, Higher Denham, near Uxbridge, England. Adjustable parachute pack container and back rest. 2,610,007, Sept. 9.

Marvin, John T., Dayton, and G. H. McFadden, Columbus, Ohio, assignors to General Motors Corporation, Detroit, Mich. Apparatus for washing spongy material. 2,609,826, Sept. 9.

Mascuch, Joseph J., assignee: *See*—
Nardone, Romeo M.

Mason, Frederick H., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Forming a composite structure comprising a chrome-containing member. 2,609,598, Sept. 9.

Matthews, John H., & Sons, assignee: *See*—
Matthews, Vincent J.

Matthews, Vincent J., Nutley, assignor to John H. Matthews & Sons, North Arlington, N. J. Crushing or pulverizing machine. 2,609,992, Sept. 9.

Maurer, Spencer B., and H. P. Ebert, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y. Gas hammer. 2,609,813, Sept. 9.

May & Baker Limited, assignee: *See*—
John, David H. O., and Field.

May Hosiery Mills, assignee: *See*—
Schwartz, Shepard B., and Blum.

Maytag Company, The, assignee: *See*—
Scott, William F.
Smith, Thomas R.

McBiles, Mike: *See*—
Tong, Jerry E., and McBiles.

McCarthy, Jane F., Minneapolis, Minn. Receptacle and wiper. 2,609,560, Sept. 9.

McCormack, Thelma C., and C. G. Clark, Washington, D. C. Hair curling device. 2,609,822, Sept. 9.

McDermott, Henry J., Collingdale, Pa., assignor to American Viscose Corporation, Wilmington, Del. Spinning apparatus. 2,609,567, Sept. 9.

McDermott, John P., Roselle, N. J., assignor to Standard Oil Development Company. Hydrocarbon thiophosphoric acid salts of thialdine and certain homologues. 2,610,182, Sept. 9.

McFadden, George H.: *See*—
Marvin, John T., and McFadden.

McFarland, David M., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Blasting. 2,609,750, Sept. 9.

McGarry, James W., Cincinnati, Ohio. Safety lock for railway switches. 2,610,291, Sept. 9.

McGrath, William L.: *See*—
Ashley, Carlyle M., and McGrath.

McIntyre, Glenn H.: *See*—
Skinner, Robert E., and McIntyre.

McKellin, Wilbur H., and F. G. Bordwell, Evanston, Ill., assignors to The Texas Company, New York, N. Y. 3-substituted derivatives of 2,3-dihydrothianaphthene-1-dioxide. 2,610,183, Sept. 9.

McKendry, John K., and R. L. Garman, Pleasantville, N. Y., assignors to General Precision Laboratory Incorporated. Motor generator circuit. 2,610,315, Sept. 9.

McKinney, Leonard L., and J. C. Cowan, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Skin cleaning composition. 2,610,153, Sept. 9.

McNamara, Gordon G., Jr., Chicago, Ill. Rotating and reciprocating table top. 2,610,099, Sept. 9.

McQuiston, Harry G., Emporia, Kans. Auxiliary air tank for automobile tires. 2,609,857, Sept. 9.

McTarnahan, Grace K., executrix: *See*—
Maroth, Arthur M.

McTarnahan, William C., assignee: *See*—
Maroth, Arthur M.

Mead, Theodore E., Wilmette, Ill. Power tool feed device. 2,609,714, Sept. 9.

Meddock, Alvin A., North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Control valve with free position. 2,610,022, Sept. 9.

Mefina S. A., assignee: *See*—
Casas-Robert, Ramon.

Mesnager, Jacques, Paris, France. Dam. 2,609,666, Sept. 9.

Meyer, Joe D., Parkersburg, Iowa. Surgical truss. 2,609,816, Sept. 9.

Meyer, Siegfried, New York, N. Y. Traveling case for shoes. 2,609,897, Sept. 9.

Meyers, Louis G., New York, N. Y. Bookmark. 2,610,074, Sept. 9.

Miles, Alfred M., Spartanburg, S. C. Fluorescent street lighting system. 2,610,310, Sept. 9.

Millar, Warren G., assignor to Filtaire Products, Inc., Springfield, Ill. Oil removal apparatus. 2,609,890, Sept. 9.

Millard, Julien, assignee: *See*—
Picard, Lucien.

Miller, Abba, Cleveland, Ohio. Towel washing and ironing machine. 2,609,623, Sept. 9.

Miller, Douglass: *See*—
Bleam, Howard A., Singleman, and Miller.

Miller, Robert J.: *See*—
Darragh, John L., and Miller.

Miller, William H., Hazleton, assignor to Cloverleaf-Freeland Corporation, Honesdale, Pa. Metal bobbin. 2,610,004, Sept. 9.

Mining Engineering Company Limited, The, assignee: *See*—
Duncan, Angus W.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Shivers, Paul F.
Stone, Wayne A.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Hoffman, Harry J.

Minsk, Louis M., W. P. Van Deusen, and E. M. Robertson, assignors to Eastman Kodak Company, Rochester, N. Y. Photosensitization of polymeric cinnamic acid esters. 2,610,120, Sept. 9.

Mitchell, Allan F., assignor to Drenching Equipment Company Limited, Wanganui, Wellington, New Zealand. Device for administering drenches to livestock. 2,609,819, Sept. 9.

Moe, Owen A., and D. T. Warner, Minneapolis, Minn., assignors to General Mills, Inc. Synthesis of 1,5-ketoaldehydes. 2,610,204, Sept. 9.

Moffett, Le Roy, Tarrytown, N. Y., assignor to Radio Corporation of America. Signal gain control circuits. 2,610,260, Sept. 9.

Moloney, Raymond T., assignee: *See*—
Hooker, Donald E.
Hooker, Donald E., and Breither.

Monarch Manufacturing Works, Inc., assignee: *See*—
Murphy, Thomas W., and Carroll.

Monroe Calculating Machine Company, assignee: *See*
Burkhart, William H., and Fleming.

Monsanto Chemical Company, assignee: *See*—
Adams, James F., Bauer, and Taylor.
Dye, William T., Jr.
Emerson, William S., and Patrick.
Gluesenkamp, Earl W.
Gluesenkamp, Earl W., and Dazzi.
Ham, George E.
Ingram, Joseph R.
Kosmin, Milton, and Butler.

Montemarani, Ferdinand, Fort Erie, Ontario, Canada. Variable speed mechanism. 2,609,700, Sept. 9.

Montgomery, Hugh E., Jacksonville, Fla. Machine for folding paper box blanks on a stack thereof. 2,609,736, Sept. 9.

Moon, Sterling C., Worthington, Ohio, assignor to The Jeffrey Manufacturing Company. Drill feed mechanism with reciprocating nonrotating feed cylinder. 2,610,029, Sept. 9.

Moore, Frederick D., Portland, Oreg. Combined cap and disk. 2,609,955, Sept. 9.

Moore, Raymond J.: *See*—
Briggs, Robert F., and Moore.

Morey, Arthur H.: *See*—
Buckland, Bruce O., and Morey.

Morgan, Bryan E., and G. K. Dumbauld, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Composition for cementing wells. 2,609,882, Sept. 9.

Morgenstern, Stephen, Toledo, Ohio. Bather's safety pocket. 2,609,980, Sept. 9.

Morin, Louis H., Bronx, N. Y. Apparauts for pressure injecting casting material by diaphragm pumps. 2,609,575, Sept. 9.

Morse, Shirley P., East Haven, assignor to The A. C. Gilbert Company, New Haven, Conn. Motor speed and circuit governing electrical system. 2,610,314, Sept. 9.
Mosler Safe Company, The, assignee: *See*—
Bremer, Frederick J., and Bauer.
Moss, Earl C., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Gauge for checking parts of cylindrical articles. 2,609,609, Sept. 9.
Mostowicz, Witold, New York, N. Y. Device for splitting clams. 2,609,565, Sept. 9.
Moyers, W. T., assignee: *See*—
Spann, Ben A.
Mueller, Joseph J., assignor to Auto Specialties Manufacturing Company, St. Joseph, Mich. Hydraulic jack. 2,610,023, Sept. 9.
Mueller, Waldemar B., Chicago, Ill. Grade indicator for automotive vehicles. 2,609,616, Sept. 9.
Mueller, William G.: *See*—
Farrell, Robert A., and Mueller.
Mull, Raymond A., Saint Joseph Township, Berrien County, Mich. Sine protractor. 2,609,612, Sept. 9.
Murphy, Arthur J., assignor of one-half to S. Lawrence Atkins, New York, N. Y. Loom. 2,609,840, Sept. 9.
Murphy, Thomas W., and J. M. Carroll, Narberth, assignors to Monarch Manufacturing Works, Inc., Philadelphia, Pa. Air admission director for oil burners. 2,609,869, Sept. 9.
Murray, Donald E., Modesto, Calif. Hydraulically controlled apron and ejector assembly for earth working scrapers. 2,609,622, Sept. 9.
Myhr, Harold G., Pacific Grove, Calif. Exhaust propulsion engine including means for igniting the fuel within exhaust chambers exteriorly of the cylinders. 2,609,637, Sept. 9.
Mzik, Charles F., Chagrin Falls, Ohio. Basket-like device and making same. 2,609,958, Sept. 9.
Naken, Morris I., Chicago, Ill. Silverware container. 2,609,921, Sept. 9.
Nardone, Romeo M., Teaneck, assignor to Joseph J. Mascuch, Maplewood, N. J. Regulation of alignment of fluid supply with respect to gas turbine blades in accordance with turbine speed. 2,609,661, Sept. 9.
National Research Council, assignee: *See*—
Bell, Robert E.
National Steel Corporation, assignee: *See*—
Kompart, Walter W.
Wilson, Abram B.
National Supply Company, The, assignee: *See*—
Picard, John B.
Navarro, Eugene M., New York, N. Y. Milk bottle holder. 2,609,987, Sept. 9.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Hall, William M.
Neff, Margaret D., Pittsburgh, Pa. Hair-restraining appliance. 2,609,823, Sept. 9.
Neff, Margaret D., Pittsburgh, Pa. Hair-restraining appliance. 2,609,824, Sept. 9.
Nelson, George W., Cleveland, Ohio, assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Thread handling mechanism for sewing machines. 2,609,773, Sept. 9.
Nelson, Rudolph, assignee: *See*—
Lindquist, August T.
Neracher, Carl A., and W. T. Dunn, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,609,900, Sept. 9.
New Britain Machine Company, The, assignee: *See*—
Retz, William B.
Newcomb, Philip P., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Rotatable combustion apparatus for aligning individual flame tubes with access parts or manholes. 2,609,663, Sept. 9.
Newell, Strohm, Los Angeles, and L. Fay, Burbank, Calif. Muffler-type toy. 2,609,640, Sept. 9.
Newkirk, William B., La Grange, and J. E. Diouhy, Forest Park, Ill., assignors to Corn Products Refining Company, New York, N. Y. Starch conversion process. 2,610,132, Sept. 9.
Nicoletti, Nicholas J., St. Louis, Mo. Apparatus for transmitting hot pans of bread from ovens. 2,609,944, Sept. 9.
Nims, Paul T.: *See*—
Vogt, Paul R., and Nims.
Norris, Harold W., Battle Creek, Mich. Electric fence. 2,610,224, Sept. 9.
Norris, Henry D.: *See*—
Trigg, Hastings S., Norris and White.
North American Aviation, Inc., assignee: *See*—
Kindelberger, James H.
Northwest Nut Growers, assignee: *See*—
Kofold, Melvin J.
Nuncio, Estelle M. S., New Orleans, La. Wallboard containing a phenol formaldehyde resin and cattail fibers. 2,610,160, Sept. 9.
Nyhagen, Barney R., New York, N. Y. Safety razor. 2,609,603, Sept. 9.
Nyquist, Arthur S., Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of nonnuclearly sulfonated phenol-formaldehyde resin in beaded form. 2,610,171, Sept. 9.
Nyqvist, Halvar, executor: *See*—
Sahlin, Börje, and Jansson.
Nystrom, Karl F., Nashotah, Wis. Freight car end construction. 2,609,762, Sept. 9.
Oak Mfg. Co., assignee: *See*—
English, Robert R.
Oblinger, Edwin: *See*—
Osborne, Frank M., and Oblinger.
O'Farrell, Matthew, Detroit, Mich, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Distributing valve for percussive tools. 2,609,792, Sept. 9.
Ohio Thermometer Company, The, assignee: *See*—
Osborne, Frank M., and Oblinger.
Oneida, Ltd., assignee: *See*—
Eaton, Samuel E.
O'Neil, Anna L., administrator: *See*—
O'Neil, Edward C.
O'Neil, Edward C., deceased, Leominster, Mass., A. L. O'Neil, administrator of said Eward C. O'Neil. Wax lubricating composition. 2,610,150, Sept. 9.
Oroshnik, William, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation. 2-amino-4-dialkylaminoethoxypyrimidines. 2,610,184, Sept. 9.
Oroshnik, William, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation. 2-amino-4-dialkylaminopropoxypyrimidines. 2,610,185, Sept. 9.
Oroshnik, William, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation. 2-amino-4-dialkylaminoethoxypyrimidines. 2,610,186, Sept. 9.
Oroshnik, William, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation. 2-amino-4-dialkylaminoethoxy-6-methylpyrimidines. 2,610,187, Sept. 9.
Oroshnik, William, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation. 2-amino-4-dialkylaminopropoxyprimidines. 2,610,188, Sept. 9.
Ortho Pharmaceutical Corporation, assignee: *See*—
Oroshnik, William.
Senger, Frank A.
Osborn Manufacturing Company, The, assignee: *See*—
Peterson, Ruben O.
Osborn, Paul V., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Pin doweled bearing cap. 2,609,710, Sept. 9.
Osborne, Frank M., and E. Oblinger, assignors to The Ohio Thermometer Company, Springfield, Ohio. Oven thermometer. 2,609,690, Sept. 9.
Oster, John, Manufacturing Company, assignee: *See*—
Johnson, Gordon C., and A. O.
Otterson, Oscar, Butler, assignor, by mesne assignments to Schaefer Equipment Company, Pittsburgh, Pa. Dies for making truck lever connections. 2,609,861, Sept. 9.
Owens-Corning Fiberglas Corporation, assignee: *See*—
Slayter, Games, and Stalego.
Pabst Brewing Company, assignee: *See*—
Hartig, Walter, and Smith.
Packie, John W., Maplewood, N. J., assignor to Standard Oil Development Company. Liquid-liquid extraction tower. 2,610,108, Sept. 9.
Page, Robert M., Washington, D. C. Radio echo apparatus. 2,610 319, Sept. 9.
Parker Appliance Company, The, assignee: *See*—
Davies, Robert H.
Parker, Leland C., Elmira, N. Y., assignor to Bendix Aviation Corporation. Electric fuel pump control for internal combustion engines. 2,609,809, Sept. 9.
Parker, William N.: *See*—
Garner, Lloyd P., and Parker.
Parrine, John J., Rocky River, assignor to Strong Cobb & Company, Inc., Cleveland, Ohio. Automatic injecting ampule. 2,609,818, Sept. 9.
Parry, Harvey L., Concord, and D. C. Waldman, Lafayette, assignors to Shell Development Company, Emeryville, Calif. Treatment of equipment. 2,610,166, Sept. 9.
Parry, Richard M., Teaneck, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Method and apparatus for stressing concrete. 2,609,586, Sept. 9.
Paton, Clyde R., Birmingham, Mich. Wheel. 2,609,856, Sept. 9.
Patrick, Tracy M., Jr.: *See*—
Emerson, William S., and Patrick.
Patzer, William, assignor to C. E. Threedy, Chicago, Ill., as trustee. Step-up mechanism. 2,609,698, Sept. 9.
Paulich, Joseph, Koehler, N. Mex. Bassinet rocker. 2,609,863, Sept. 9.
Pearson, Frank G., Bryn Mawr, Pa., assignor to American Viscose Corporation, Wilmington, Del. Copolymers obtained from trifluorochloroethylene and methyl methacrylate. 2,610,174, Sept. 9.
Pedron, Ettore, Eugene, Oreg. Veneer trimmer. 2,609,874, Sept. 9.
Pennsylvania Crusher Company, assignee: *See*—
Layberger, Arthur J.
Perillo, Florindo J., Tucson, Ariz. Multislide automatic turntable projector. 2,609,726, Sept. 9.
Perkes, Fred T., Willoughby, assignor to Thompson Products Inc., Cleveland, Ohio. Making poppet valves. 2,610,279, Sept. 9.
Perkins, B. F., & Son., Inc., assignee: *See*—
Getchell, Raymond E.
Persons, Maynard C., Fair Haven, Vt. Device for dispensing granular soap. 2,609,967, Sept. 9.
Pescara, Enrico P., Cap d'Antibes, France. Cylinder head for internal-combustion engines. 2,609,805, Sept. 9.

Pestarini, Joseph M., Staten Island, N. Y. Amplifying dynamoelectric machine of the metadyne type. 2,610,316, Sept. 9.
Peterson, John B., deceased, Bethesda, Md.; R. L. Peterson, administratrix of said John B. Peterson. Air-speed integrator. 2,609,686, Sept. 9.
Peterson, Ruben O., University Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. 2,609,559, Sept. 9.
Peterson, Ruben O., University Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Brush and brush material. 2,609,642, Sept. 9.
Peterson, Ruth L., administratrix: *See*—
Peterson, John B.
Peterson, Thomas F., Shaker Heights, assignor to Preformed Line Products Company, Cleveland, Ohio. Helically-preformed elements on stranded line. 2,609,653, Sept. 9.
Peterson, William R., Oswego, assignor to St. Regis Paper Company, New York, N. Y. Bag weighing and filling machine. 2,610,020, Sept. 9.
Pfaff, Ben A., Elyria, Ohio. Body protective pad for use in contact sports. 2,609,537, Sept. 9.
Phillips, Norman E., College Park, assignor of one-third to L. G. Goff, Bethesda, Md. Thermal respirator, 2,610,038, Sept. 9.
Phillips Petroleum Company, assignee: *See*—
Clark, Alfred.
Eddy, William R.
Goodhue, Lyle D., and Tissot.
Gray, Worth.
Mahan, John E., and Fauske.
Phillips, William E., Drexel Hill, and E. J. Cranch, Bryn Athyn, assignors to Leeds and Northrup Company, Philadelphia, Pa. Self-balancing, self-standardizing measuring system. 2,610,311, Sept. 9.
Phipard, Harvey F., Jr., South Dartmouth, assignor to Research Engineering & Manufacturing, Inc., New Bedford, Mass. Making headed fastener. 2,609,550, Sept. 9.
Piasecki Helicopter Corporation, assignee: *See*—
Daland, Elliot.
Picard, John B., Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Rotary drilling rig. 2,610,026, Sept. 9.
Picard, Lucien, Sainte-Savine, assignor of three-twelfths to J. Millard, Troyes, two-twelfths to L. Carbonnaux, and one-twelfth to J. Manotte, Sainte-Savine, France. Knitting. 2,609,677, Sept. 9.
Pielstick, Gustav, Saint Germain en Laye, France. Auxiliary pump arrangement for water cooled engines. 2,609,800, Sept. 9.
Pigott, Reginald J. S., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Chuck. 2,610,066, Sept. 9.
Pilley, Frank M., Wichita, Kans. Spotting board for dry cleaners. 2,609,678, Sept. 9.
Pixler, Harry B.: *See*—
Pixler, Louis H., and H. B.
Pixler, Louis H., Englewood, and H. B. Pixler, Denver, Colo. Differential gear control device. 2,609,709, Sept. 9.
Planiol, René, assignor, by mesne assignments, to Plaroc, Inc., New York, N. Y. Impact pulverizing mill, including both cooling and vacuum means. 2,609,993, Sept. 9.
Plaroc, Inc., assignee: *See*—
Planiol, René.
Platz, Elwood T., assignor to Bulldog Electric Products Company, Detroit, Mich. Circuit breaker. 2,610,272, Sept. 9.
Poggi, Giovanni, Bologna, Italy. Astral type window structure. 2,609,571, Sept. 9.
Pointon, John E., Peterborough, England, assignor to Baker Perkins Incorporated, Saginaw, Mich. Dough divider. 2,609,765, Sept. 9.
Polly, Orville L., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Modified drying oils. 2,610,161, Sept. 9.
Poole, David M., Oak Ridge, Tenn., assignor to United Aircraft Corporation, East Hartford, Conn. Gas turbine power plant having fuel cut-off valve actuated by an overspeed governor. 2,609,656, Sept. 9.
Potchen, Joseph A., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich. Window panel construction. 2,609,896, Sept. 9.
Pottorf, Newell, assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Marine seismometer spread. 2,610,240, Sept. 9.
Powell, William W., Fort Worth, Tex. Military campaign game board and pieces. 2,610,060, Sept. 9.
Power Brake Parts Manufacturing Company, assignee: *See*—
Stella, Frank M.
Pratt, Marion L., assignor to The Marion Chair Company, Inc., Topeka, Kans. Hospital chair. 2,609,862, Sept. 9.
Preformed Line Products Company, assignee: *See*—
Peterson, Thomas F.
Prendergast, Charles S., Eashing, R. S. Prendergast, Elstead, G. W. B. Dixey, London, and H. Gordon, Elstead, England. Pump and motor. 2,609,754, Sept. 9.
Prendergast, Richard S.: *See*—
Prendergast, Charles S., R. S., Dixey, and Gordon.
Price, Bernard A.: *See*—
Walter, Andrew T., and Price.
Price, Nathan C., St. Helena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Starting system for internal-combustion turbine power plants. 2,609,659, Sept. 9.
Price, Nathan C., St. Helena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Propulsive means for vertical rising aircraft. 2,610,005, Sept. 9.
Procter & Gamble Company, The, assignee: *See*—
Vierson, Fred.
Production Tool & Die Co., Inc., assignee: *See*—
Gaudreau, Richard J.
Productive Equipment Corporation, assignee: *See*—
Soldan, Lewis E.
Puerner, George O., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Miniature phone plug. 2,610,223, Sept. 9.
Pullen, Harold N.: *See*—
Dexheimer, Walter A., Jr., and Pullen.
Putman, John H., Enfield, J. Scott, West Wimbledon, London, and D. W. Ervine, Teddington, England, assignors to Standard Oil Development Company Noncorrosive oil compositions. 2,610,151, Sept. 9.
Pye, David J., Concord, Calif., assignor to The Dow Chemical Company, Midland, Mich. Simultaneously purifying and dehydrating caustic alkali solutions containing chlorates. 2,610,105, Sept. 9.
Raab, Werner J.: *See*—
Couchman, Robert, Jr., and Raab.
Radio Corporation of America, assignee: *See*—
Bond, Donald S., and Thomson.
Christian, Schuyler M.
Engel, William T.
Fuller, Lawrence C., Jr.
Garner, Lloyd P., and Parker.
Goldsmith, Alfred N
Hanchett, George D., Jr.
Hershberger, William D.
Isom, Warren R.
Isom, Warren R., and Andrews.
Larach, Simon.
Mackey, Donald, and Lazzery.
Moffett, Le Roy.
Rettinger, Michael.
Thomson, Francis X.
Randell, Glenn F., Woodlake, assignor of one-half to L. H. Lee, Upland, Calif. Spraying apparatus. 2,610,088, Sept. 9.
Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Accessory control system. 2,609,665, Sept. 9.
Rauen, Carl F., Grosse Pointe, Mich. Brake and stop mechanism. 2,609,901, Sept. 9.
Rawlings, Arthur L., Little Neck, and H. H. Thompson, Manhasset, N. Y., assignors to The Sperry Corporation. Air navigation system. 2,609,683, Sept. 9.
Raymond Concrete Pile Company, assignee: *See*—
Parry, Richard M.
Raytheon Manufacturing Company, assignee: *See*—
Cage, John M.
Wolf, Ezekiel.
Ream, Vincent A., Greenville, Ohio. Opening and pouring attachment for cans. 2,609,968, Sept. 9.
Reed, Ralph R., Burbank, Calif. Hand broom. 2,609,557, Sept. 9.
Reeves, Alec H.: *See*—
Deloraine, Edmond M., and Reeves.
Reeves Instrument Corporation, assignee: *See*—
Seay, Perry A.
Reid, George C., and S. S. Jacobs, Brooklyn, assignors to American Can Company, New York, N. Y. Container with flat top and integral overcap. 2,609,985, Sept. 9.
Reid, John D., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Radio frequency coupling circuit. 2,610,248, Sept. 9.
Reid, John D., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Electromagnetic wave interceptor. 2,610,296, Sept. 9.
Reilly, James H.: *See*—
Wheeler, Gordon D., and Reilly.
Reiners, Neville M., assignor to Cummins Engine Company, Inc., Columbus, Ind. Piston construction. 2,610.098, Sept. 9.
Research Corporation, assignee: *See*—
Draper, Charles S., and Bentley.
Research Engineering & Manufacturing, Inc., assignee: *See*—
Phipard, Harvey F., Jr.
Rettinger, Michael, Encino, Calif., assignor to Radio Corporation of America. Microphone mount. 2,610,018, Sept. 9.
Retz, William B., Plainville, assignor to The New Britain Machine Company, New Britain, Conn. Stock reel. 2,609,591, Sept. 9.
Reynaud, S. Chester, Detroit, Mich. Rotary operator for casement windows. 2,610,054, Sept. 9.
Rhodin, Carl M., Newport, R. I. Lathe tool holder. 2,609,593, Sept. 9.
Richardson Company, The, assignee: *See*—
Keller, Charles L.

Richetti, Anthony V., Jamestown, N. Y. Hairpin. 2,609,825, Sept. 9.

Riddell, Wallace C., Berkeley, and G. B. Kirk, Redwood City, assignors, by mesne assignments, to Kaiser Gypsum Company, Oakland, Calif. Water-repellant gypsum product. 2,610,130, Sept. 9.

Riebman, Leon, and S. Lambert, Philadelphia, Pa. Laboratory gas burner and valve operator. 2,609,870, Sept. 9.

Rietz, Carl A., assignor to Rietz Manufacturing Co., San Francisco, Calif. Press construction. 2,609,744, Sept. 9.

Rietz, Carl A., assignor to Rietz Manufacturing Co., San Francisco, Calif. Heat exchange screw conveyer. 2,610,033, Sept. 9.

Reitz Manufacturing Co., assignee: *See*—
Rietz, Carl A.

Rines, Robert H., Brookline, Mass. Electret array sensitive to radio waves. 2,610,245, Sept. 9.

Ringler, William A., Wayne, Pa., assignor to The Gardner Board and Carton Co., Middletown, Ohio. Paperboard protector for paint brushes. 2,609,920, Sept. 9.

Rinker, Wilhelm, O. Sanger, and E. Leitz, Jr., assignors to Ernest Leitz, G. m. b. H., Wetzlar, Germany. Micrometer. 2,609,607, Sept. 9.

Risley, Roger E., Bradford, and A. J. Whitehill, Butler, Pa., assignors to Dresser Industries, Inc., Cleveland, Ohio. Gasket for pipe joints. 2,610,078, Sept. 9.

Roberts, Robert L., Piedmont, Calif., assignor to the United States of America as represented by the Secretary of Agriculture. Production of quick-cooking rice. 2,610,124, Sept. 9.

Robertson, Earl M.: *See*—
Minsk, Louis M., Van Deusen, and Robertson.

Robertson, James S. P., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electromagnetic vibratory device. 2,610,259, Sept. 9.

Robson, William S., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Inductively heated shoemaking apparatus. 2,610,287, Sept. 9.

Rockwood, Arthur G.: *See*—
Wright, Elliott F., and Rockwood.

Rodman, Clarke A., Garden City, N. Y., and N. L. Tewksbury, Fall River, Mass., assignors to Fram Corporation. Filtering. 2,609,931, Sept. 9.

Rogers, John P., Liverpool, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Transmission. 2,609,702, Sept. 9.

Rohn, Abbott M., Detroit, Mich. Noiseless sheave. 2,609,699, Sept. 9.

Rohr Aircraft Corporation, assignee: *See*—
Shetler, Ray E.

Rose, Howard E., Brecksville, Ohio, assignor, by mesne assignments, to Alco Valve Co., St. Louis, Mo. Pressure releasable locking mechanism for fluid pressure pistons. 2,609,793, Sept. 9.

Rosen, Mitchell, New York, N. Y. Interchangeable linings for pocketbooks. 2,609,854, Sept. 9.

Rosenberg, Herbert L., Aberdeen, Md. Fuse functioning mechanism. 2,609,753, Sept. 9.

Ross, Margaret, Lincoln Park, Mich. Filter. 2,609,933, Sept. 9.

Rossheim, David B., Teaneck, assignor to The M. W. Kellogg Company, Jersey City, N. J. Forming laminated pressure vessels. 2,609,595, Sept. 9.

Rossi, Irving, Morristown, N. J., assignor to Continuous Metalcast Co., Inc. Apparatus for the continuous casting of metal rods. 2,609,574, Sept. 9.

Rothschild, Sam, New York, N. Y. Safety device for wallets. 2,609,855, Sept. 9.

Round, David A.: *See*—
Martin, Charles C., and Round.

Roush, Milton S., Painesville, and C. C. Clark, Willoughby, assignors to Thompson Products, Inc., Cleveland, Ohio. Making hollow shapes. 2,609,576, Sept. 9.

Round, David, & Son, assignee: *See*—
Martin, Charles C., and Round.

Rubenstein, Harry J., Kansas City, Mo. Joint structure for wire display racks. 2,609,937, Sept. 9.

Rüegg, Rudolf: *See*—
Lindlar, Herbert, and Rüegg.

Ruscoe, Garnet W., Trumbull, Conn., assignor to General Electric Company. Drive mechanism for washing machines and the like. 2,609,697, Sept. 9.

Rusnak, William, Chicago, and W. G. Stoll, Evanston, assignors to Afco-Lite Corporation, Chicago, Ill. Suspendible brooder heater with tumbling feature. 2,610,285, Sept. 9.

Russell, John D., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Thermal-magnetic relay. 2,610,271, Sept. 9.

Rutenber, Edwin A., Baldwin Lake, and H. Tillapaugh, assignors to Gibson Refrigerator Company, Greenville, Mich. Electric range heating element supporting structure. 2,610,281, Sept. 9.

Rutherford, John T., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Nonyl phthalates. 2,610,201, Sept. 9.

Ryman Engineering Company, assignee: *See*—
Elmes, John A.

S. & W. Fine Foods, Inc., assignee: *See*—
Doering, William A., and Koenig.

Sahlin, Börje, Stockholm, Sweden, and E. E. Jansson, deceased, Bofors, Sweden, by H. Nyqvist, executor, assignors to Aktiebolaget Bofors, Bofors, Sweden. Pivoted breech block locking mechanism. 2,609,731, Sept. 9.

Sahlin, Henry, Birmingham, Mich. Loading and unloading apparatus. 2,609,776, Sept. 9.

St. Regis Paper Company, assignee: *See*—
Burroughs, Edwin E.
Peterson, William R.
Simonton, Budd E.

Salt, Francis E.: *See*—
Highet, Hugh C., and Salt.

Sandusky, John W.: *See*—
Uotila, Gus, and Sandusky.

Sanger, Otto: *See*—
Rinker, Wilhelm, Sanger, and Leitz.

Santivasi, Vincent A., Springfield, assignor to Barker, Moore & Mein Company, Philadelphia, Pa. Composition for the prevention and control of coccidiosis in poultry. 2,610,140, Sept. 9.

Saplen, Sisto V., Yakima, Wash. Air vent and cleaner therefor. 2,609,961, Sept. 9.

Saranac Patents Holding Company, assignee: *See*—
Sester, Harry F.

Schaefer, Carl A., Milwaukee, Wis., assignor to Square D Company, Detroit, Mich. Electric switch. 2,610,265, Sept. 9.

Schaefer Equipment Company, assignee: *See*—
Otterson, Oscar.

Schafer, Curtiss R., Ridgefield, Conn. Chopper. 2,610,270, Sept. 9.

Schmitz, Albert A., Racine, Wis. Remote control for power drives. 2,609,701, Sept. 9.

Schneider, George O., San Francisco, Calif. Portable sawing apparatus for prostrate logs. 2,609,848, Sept. 9.

Schnürle, Adolf, deceased, and O. Elwert, Stuttgart, Germany; said Elwert assignor to said Schnürle; G. Schnürle, administratrix of said A. Schnürle. Two-stroke cycle internal-combustion engine. 2,609,802, Sept. 2.

Schnürle, Gertrud, administratrix: *See*—
Schnürle, Adolf, and Elwert.

Schock, Gusmer & Co. Inc., assignee: *See*—
Heller, William.

Schramm, Arthur G., Phoenix, Ariz. Trailer loader. 2,609,953, Sept. 9.

Schreiber, Louis J. J., deceased, Antwerp, Belgium, by C. H. L. B. Martin, widow and heir, L. A. Schreiber and R. A. J. A. van Beurden, Antwerp, and P. R. Schreiber, Berchem, heirs, and G. X. Lens, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y. Telephone coin collector. 2,610,253, Sept. 9.

Schreiber, Louise A., heir: *See*—
Schreiber, Louis J. J.

Schreiber, Paul R., heir: *See*—
Schreiber, Louis J. J.

Schuetz, Fritz: *See*—
Widmer, Willi, Schuetz, and Heckendorn.

Schultz, Whitt N., Highland Park, Ill. Combination tool. 2,609,962, Sept. 9.

Schwartz, Shepard B., and R. D. Blum, Jr., assignors to May Hosiery Mills, Nashville, Tenn. Design dyeing apparatus. 2,609,747, Sept. 9.

Scott, James: *See*—
Putman, John H., Scott, and Ervine.

Scott, William F., assignor to The Maytag Company, Newton, Iowa. Spring type clutch. 2,609,906, Sept. 9.

Sear, Arthur W., Stratford, Conn., assignor to General Electric Company. Tension control system. 2,609,998, Sept. 9.

Searle, G. D., & Co., assignee: *See*—
Burtner, Robert R., and Brown.

Searle, Norman E., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of DDT. 2,610,213, Sept. 9.

Sears, Roebuck and Co., assignee: *See*—
Williamson, Cecil M., and Boisselier.

Seay, Perry A., assignor to Reeves Instrument Corporation, New York, N. Y. Servomotor apparatus. 2,610,312, Sept. 9.

Seddon, John C., Washington, D. C. Vacuum tube keying circuit. 2,610,294, Sept. 9.

Sekella, Youston, Elmira, N. Y., assignor to Bendix Aviation Corporation. Engine starter drive. 2,609,696, Sept. 9.

Senger, Frank A., Somerville, N. J., assignor to Ortho Pharmaceutical Corporation. Spring closure for collapsible tubes. 2,609,975, Sept. 9.

Servel, Inc., assignee: *See*—
Shagaloff, Harry C.

Sester, Harry F., assignor to Saranac Patents Holding Company, Benton Harbor, Mich. Crate and box construction. 2,609,957, Sept. 9.

Shafer, John F.: *See*—
Kessel, William P., and Shafer.

Shagaloff, Harry C., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Air conditioning. 2,610,032, Sept. 9.

Shank, Clifford A.: *See*—
Brown, Norman M., Jr., and Shank.

Shanklin, Dunbar L., Winchester, and R. C. Adams, assignors to Dewey and Almy Chemical Company, Cambridge, Mass. Forming lined container closures. 2,610,131, Sept. 9.

Shearer, Howard E., Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del. Bust receiving and supporting member. 2,609,539, Sept. 9.

Shelden, Virgil M., Newburg, and D. E. Wells, Hooker, Mo. Lubricating means for bearing assemblies. 2,610,097, Sept. 9.

Shell Development Company, assignee: *See*—
Parry, Harvey L., and Waldman.
Whetstone, Richard R.

Shepherd, Judson O'D., Atlanta, Ga. Traffic signal and street light control system. 2,610,239, Sept. 9.

Sherman, Robert A.: *See*—
Casey, James P., Gill, and Sherman.

Shetler, Ray E., assignor to Rohr Aircraft Corporation, Chula Vista, Calif. Cam grinding and marking fixture. 2,609,643, Sept. 9.

Shield, Lawrence, Reinbeck, Iowa. Collapsible cover for vehicle beds. 2,610,086, Sept. 9.

Shirtcraft Co., Inc., The, assignee: *See*—
Kaplan, Morris L.

Shirtcraft Company, Inc., The, assignee: *See*—
Kaplan, Morris L.

Shivers, Paul F., Edina, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gyroscopic instrument. 2,609,615, Sept. 9.

Shotton, Walter E., Smethwick, Birmingham, England. Manufacture of industrial wool from solid stock. 2,609,850, Sept. 9.

Shumaker, Samuel O., Merchantville, N. J. Work supporting attachment for screw machines and the like. 2,609,592, Sept. 9.

Siemens & Halske, Aktiengesellschaft, assignee: *See*—
Wilsteney, Herbert.

Silverman, Daniel, assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Seismic-wave generation. 2,609,885, Sept. 9.

Simonton, Budd E., Watertown, assignor to St. Regis Paper Company, New York, N. Y. Bag package with fork-lift handling means. 2,609,923, Sept. 9.

Simpson, Kenneth C., Pasadena, Calif. Bobber. 2,609,634, Sept. 9.

Singleman, Fred: *See*—
Bleam, Howard A., Singleman, and Miller.

Sivacek, Emil E., assignor to King-Seeley Corporation, Ann Arbor, Mich. Stopping control valve mechanism for expansible chamber fluid motors with piston actuated distributing valve. 2,609,796, Sept. 9.

Skinner, Robert E., Fairview Park, and G. H. McIntyre, Cleveland Heights, Ohio, assignors to Ferro Corporation. Electric enamel furnace. 2,610,217, Sept. 9.

Slayter, Games, and C. J. Stalego, Newark, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Method and apparatus for forming fibers. 2,609,566, Sept. 9.

Smith, A. O., Corporation, assignee: *See*—
Burklin, Adolf J.
Gruetjen, Frederick A.

Smith & Enander, assignee: *See*—
Enander, Arthur G.

Smith, Harry F., Lexington, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio. Flush tank inlet valve. 2,609,830, Sept. 9.

Smith, James E., Pasadena, Tex. Well drilling pipe. 2,610,028, Sept. 9.

Smith, James H.: *See*—
Drapeau, Joseph E., Jr., Smith, and Halsted.

Smith, James J.: *See*—
Hartig, Walter, and Smith.

Smith, Laurence H., Oakland, Calif. Olive stuffing machine. 2,609,853, Sept. 9.

Smith, Merton J., Cleveland, Ohio. Fluid pressure regulator. 2,609,832, Sept. 9.

Smith, Prevost F., San Diego, Calif. Parachute apparatus. 2,610,008, Sept. 9.

Smith, Robert F., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Brake. 2,609,892, Sept. 9.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Valve construction. 2,610,021, Sept. 9.

Smith, William M., Glen Ellyn, assignor to Vapor Heating Corporation, Chicago, Ill. Low water alarm. 2,610,236, Sept. 9.

Société Anonyme dite: Machines Automatiques Bardet, assignee: *See*—
Bardet, Gérard.

Societe des Brevets Kegresse, S. E. K., assignee: *See*—
Grandgirard, Henri.

Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., assignee: *See*—
Faucheux, Eugène.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Trigg, Hastings S., Norris and White.
Weisz, Paul B.

Soldan, Lewis E., San Diego, Calif., assignor to Productive Equipment Corporation, Chicago, Ill. Vibrating equipment. 2,609,930, Sept. 9.

Solvay & Cie, assignee: *See*—
Vanharen, Lambert.

Sommer, Leo H., State College, Pa., assignor to Dow Corning Corporation, Midland, Mich. Organosilyl amides. 2,610,198, Sept. 9.

Sommer, Leo H., State College, Pa., assignor to Dow Corning Corporation, Midland, Mich. Organosilyl acyl halides. 2,610,199, Sept. 9.

Spann, Ben A., Denver, Colo., assignor of one-half to W. T. Moyers. Pistol holster. 2,609,979, Sept. 9.

Spence Engineering Company, Inc., assignee: *See*—
Spence, Paulsen.

Spence, John W., Hubbard, Oreg. Pounding toy. 2,609,637, Sept. 9.

Spence, Paulsen, Baton Rouge, La., assignor to Spence Engineering Company, Inc., Walden, N. Y. Steam economizing system. 2,609,990, Sept. 9.

Sperry Corporation, The, assignee: *See*—
Rawlings, Arthur L., and Thompson.

Sprague, Boyd F., Klamath Falls, Oreg. Dental screw insert. 2,609,604, Sept. 9.

Spray Engineering Company, assignee: *See*—
Thompson, Wayne B.

Square D Company, assignee: *See*—
Schaefer, Carl A.

Staehlin, Ralph H., and M. C. Wuebben, Dayton, Ohio. Camera holder. 2,609,738, Sept. 9.

Stahl, Fred A., assignor to Arlington Machine Works, Inc., St. Paul, Minn. Paint mixer. 2,610,041, Sept. 9.

Stalego, Charles J.: *See*—
Slayter, Games, and Stalego.

Staley, A. E., Manufacturing Company, assignee: *See*—
Casey, James P., Gill, and Sherman.

Staley, Allen C., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Plural combustion products generator in ring coaxial with turbine. 2,609,664, Sept. 9.

Stålheim, Bror G., Stockholm, Sweden, assignor to Dreier-Stalheim Inc., New York, N. Y. Sawing stone such as marble and the like. 2,609,812, Sept. 9.

Stamos, Gust, Milwaukee, Wis. Window bracket. 2,609,936, Sept. 9.

Standard Oil Development Company, assignee: *See*—
Bielstein, Walter J.
Drout, William M., Jr.
McDermott, John P.
Morgan, Bryan E., Dumbauld.
Packie, John W.
Putman, John H., Scott and Ervine.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Borland, James N.

Stanley, Mary E., Rockingham, N. C. Ornamental cake platter. 2,610,111, Sept. 9.

Stanolind Oil and Gas Company, assignee: *See*—
Pottorf, Newell.
Silverman, Daniel.
Warren, William M.

Statham, Noel, New Canaan, Conn. Adjustable button. 2,609,581, Sept. 9.

Steadman, Rufus P., assignor to Baker Perkins Inc., Saginaw, Mich. Device for removing misaligned or misshapen dough sheets from conveyers. 2,609,763, Sept. 9.

Steele, George R., Irondequoit, assignor to Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper folder. 2,609,924, Sept. 9.

Stella, Frank M., assignor to Power Brake Parts Manufacturing Company, Detroit, Mich. Horn blowing apparatus for motor vehicles. 2,610,235, Sept. 9.

Stevenson, Samuel B., assignor to F-D-S Manufacturing Company, Inc., Pomona, Calif. Ventilated packing box and cushioning member therefor. 2,609,956, Sept. 9.

Stoesz, John A.: *See*—
Balzer, Abram P., and Stoesz.

Stoll, Wilbert G.: *See*—
Rusnak, William, and Stoll.

Stone, Mary J., Worthington, Minn. Book holder. 2,609,636, Sept. 9.

Stone, Wayne A., St. Louis Park, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Gyroscopic slaving apparatus. 2,609,693, Sept. 9.

Storey, Alvin B.: *See*—
Sutherland, Frederick F., and Storey.

Stripling, Leslie D., Bay City, Tex. Friction clutch. 2,609,902, Sept. 9.

Strong Cobb & Company, Inc., assignee: *See*—
Parrine, John J.

Stubbs, Kenneth I., Los Angeles, Calif. High shear blind fastener. 2,609,723, Sept. 9.

Sun Chemical Corporation, assignee: *See*—
Brigham, Ward E., Jr.

Sun Oil Company, assignee: *See*—
Bergman, Wayne K.
Honeycutt, Earl M.

Surber, Otis B., Los Angeles, Calif. Fishing reel. 2,610,002, Sept. 9.

Surmatis, Joseph D., Pompton Plains, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Making pentaenes. 2,610,208, Sept. 9.

Sutherland, Frederick F. and A. B. Storey, Cumberland, Md., assignors to Celanese Corporation of America. Transport lift. 2,609,954, Sept. 9.

Svenska Aeroplan Aktiebolaget, assignee: *See*—
Wilkenson, Erik A., and Faxen.

Swanson, Harold, Brownhelm Township, Lorain County, Ohio. Pencil coupling. 2,610,077, Sept. 9.

Swenson, Carl E., and A. Y. Dodge, Rockford, Ill. One-way clutch. 2,609,904, Sept. 9.

Syntron Company, assignee: *See*—
Kast, George.

Szekely, George, Tel Aviv, Palestine. Device for dropwise dispensing of liquids. 2,609,972, Sept. 9.

Tallman, John C.: *See*—
Watson, Frederick K., Ludlow, and Tallman.

Tapp, Arthur G., St. Nicholas-at-Wade, and E. T. J. Tapp, assignors to County Commercial Cars Limited, Fleet, England. Transplanting machine. 2,609,767, Sept. 9.

Tapp, Ernest T. J.: *See*—
Tapp, Arthur G., and E. T. J.

Tashjian, Harry, assignee: *See*—
Ananson, Richard D.

Tatro, Lysle G., Los Angeles, Calif. Roll film holder for press type cameras. 2,609,739, Sept. 9.

Taylor, George E.: *See*—
Adams, James F., Bauer, and Taylor.

Taylor Instrument Companies, assignee: *See*—
Griswold, Augustus W.

Taylor, James, Saltcoats, and T. Thomson, Kilmarnock, Scotland, assignors to Imperial Chemical Industries Limited. Safety blasting operation and blasting assembly for use therein. 2,609,751, Sept. 9.

Te Grotenhuis, Theodore A., Olmsted Falls, Ohio. Easily processed polymeric compounds and making same. 2,610,163, Sept. 9.

Te Grotenhuis, Theodore A., Olmsted Falls, Ohio. Pigmented silicone elastomers. 2,610,167, Sept. 9.

Tennessee Valley Authority, assignee: *See*—
Hall, Roland A.

Tenney, William L., Crystal Bay, Minn., and C. B. Marks, Las Vegas, Nev., said Marks assignor to said Tenney. Resonating pulse jet engine. 2,609,660, Sept. 9.

Terrailion, Paul, Revigny, France. Household styled scale or weighing machine with cursor index weights. 2,610,051, Sept. 9.

Tewksbury, Norman L.: *See*—
Rodman, Clarke A., and Tewksbury.

Texas Company, The, assignee: *See*—
McKellin, Wilbur H., and Bordwell.

Thomas, Thomas H., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,609,899, Sept. 9.

Thomas, Thomas H., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,609,905, Sept. 9.

Thompson, Herbert H.: *See*—
Rawlings, Arthur L., and Thompson.

Thompson Products Inc., assignee: *See*—
Perkes, Fred T.
Roush, Milton S., and Clark.

Thompson, Wayne B., Winchester, assignor to Spray Engineering Company, Somerville, Mass. Spray discharge nozzle. 2,610,092, Sept. 9.

Thomson, Francis X., Delaware Township, Camden County, N. J., assignor to Radio Corporation of America. Brightening and passivating cadmium and zinc. 2,610,133, Sept. 9.

Thomson, Leland E.: *See*—
Bond, Donald S., and Thomson.

Thomson, Thomas: *See*—
Taylor, James, and Thomson.

Threedy, Clarence E., trustee, assignee: *See*—
Patzer, William.

Tillapaugh, Harley: *See*—
Rutenber, Edwin A., and Tillapaugh.

Timken-Detroit Axle Company, The, assignee: *See*—
Osborn, Paul V.
Wilson, John A., and Hansen.

Timken Roller Bearing Company, The, assignee: *See*—
Zumstein, Paul M.

Tissol, Carolyn E.: *See*—
Goodhue, Lyle D., and Tissol.

Toland, William G., Jr., Richmond, assignor to California Research Corporation, San Francisco, Calif. Tetra (carboxy phenyl) thiophene and making same. 2,610,191, Sept. 9.

Tong, Jerry E., and M. McBilles, Carlsbad, N. Mex., said Tong assignor to International Minerals & Chemical Corporation. Current collector. 2,610,263, Sept. 9.

Torsch, Charles E., assignor to Bendix Aviation Corporation, Towson, Md. Audio-power switching system for radio-television receiver combinations. 2,610,251, Sept. 9.

Total, Henri, assignor to Machines Automatiques Bardet (Societe Anonyme), Paris, France. Machine for making up parcels and packages. 2,609,646, Sept. 9.

Toth, John J., Wilmington, Del. Folding ironing board and cabinet therefor. 2,609,628, Sept. 9.

Touraton, Emile, and C. Dumousseau, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Velocity modulation tube. 2,610,306, Sept. 9.

Touraton, Emile, and R. Zwobada, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y. Hyperfrequency electron tube. 2,610,308, Sept. 9.

Towler, Frank H.: *See*—
Towler, John M., and F. H.

Towler, John M., Harrogate, and F. H. Towler, Otley, assignors to Electraulic Presses Limited, Rodley, England. Piston type control valve for hydraulic presses. 2,609,794, Sept. 9.

Trico Products Corporation, assignee: *See*—
Rappl, Anton.

Trigg, Hastings S., West Hempstead, N. Y., and H. D. Norris, Woodbury, and R. V. White, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Ester composition. 2,610,205, Sept. 9.

Tung-Sol Lamp Works, Inc., assignee: *See*—
Bender, Harry, and Voorhis.
Braunsdorff, Reginald K.

Turner, Norbert O., Toronto, Ontario, Canada. Protective fire alarm. 2,609,786, Sept. 9.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Paper indicated dobby. 2,609,841, Sept. 9.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft replenishing loom operating with two shuttles. 2,609,844, Sept. 9.

Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Two-shuttle pick and pick shuttle changing loom. 2,609,845, Sept. 9.

Turnupseed, Harley E.: *See*—
Turnupseed, Winifred J., and H. E.

Turnupseed, Winifred J., Porterville, and H. E. Turnupseed, Tulare, Calif. Protective arrangement for single phase motors. 2,610,313, Sept. 9.

Uhl, William H., assignor to Commercial Controls Corporation, Rochester, N. Y. Envelope sealing machine. 2,609,790, Sept. 9.

Unger, Dolores J.: *See*—
Unger, Hector F.

Unger, Hector F., deceased, Portland, Oreg.; D. J. Unger, executrix of said H. F. Unger. Sprinkler rotating spinner drive. 2,610,089, Sept. 9.

Union Carbide and Carbon Corporation, assignee: *See*—
Eversole, William G., and Drost.
Walter, Andrew T., and Price.

Union des Fabriques Belges de Textiles Artificiels "Fabelta," Societe Anonyme, assignee: *See*—
De Halleux, Pierre.

Union Oil Company of California, assignee: *See*—
Berg, Clyde H. O.
Cunningham, Orin D.
Polly, Orville L.

Union Special Machine Company, assignee: *See*—
Christensen, Norman V.

United Aircraft Corporation, assignee: *See*—
Boyce, William C.
Newcomb, Philip P.
Poole, David M.

United Shoe Machinery Corporation, assignee: *See*—
Bradley, Robert W.
Cohen, Paul.
Haas, Otto R.
Kestell, Thomas A.
Robson, William S.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Friedel, Howard H.
Walton, Wilson W., and Bowers.

Universal Oil Products Company, assignee: *See*—
Chenicek, Joseph A.

Uotila, Gus, Fairbanks, Territory of Alaska, and J. W. Sandusky, Seattle, Wash.; said Uotila assignor to said Sandusky. Dragline ripper. 2,610,047, Sept. 9.

Vakilian, Randey, New York, N. Y. Cigar and cigarette holder. 2,609,820, Sept. 9.

Valko, Emery I., Mountain Lakes, N. J., assignor to E. F. Drew & Co., Inc., New York, N. Y. Edible fatty material. 2,610,125, Sept. 9.

Van Beurden, Robert A. J. A., heir: *See*—
Schreiber, Louis J. J.

Van Deusen, Werter P.: *See*—
Minsk, Louis M., Van Deusen, and Robertson.

Van Dormael, André E.: *See*—
De Smet, Polydoor F., and Van Dormael.

Van Dyke, Orlen W., assignor to Magnet Cove Barium Corporation. Houston, Tex. Preventing fluid loss through porous walls. 2,610,149, Sept. 9.

Van Guilder, Walter, River Forest, Ill., assignor to General Mills, Inc. Governor switch mechanism. 2,610,269, Sept. 9.

Vanharen, Lambert, Ixelles-Brussels, assignor to Solvay & Cie, Brussels, Belgium. Manufacturing chlorinated hydrocarbons. 2,610,215, Sept. 9.

Vapor Heating Corporation, assignee: *See*—
Clarkson, Alick.
Smith, William M.

Varian, Russell H: *See*—
Hansen, William W., and R. H. and S. F. Varian.

Varian, Sigurd F: *See*—
Hansen, William W., and R. H. and S. F. Varian.

Vendoriator Manufacturing Company, assignee: *See*—
Childers, Harry S.

Vermot, Henri E., assignor to Hamilton Watch Company, Lancaster, Pa. Waterproof watchcase. 2,609,655, Sept. 9.

Vierson, Fred, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Tape dispenser. 2,610,000, Sept. 9.

Vivolo, Michael, D., New York, N. Y. Salt dispenser. 2,609,971, Sept. 9.

Vogel, Frank, Philadelphia, Pa. Sewing machine needle threader. 2,609,771, Sept. 9.

Vogt, Paul R., Grosse Pointe, and P. T. Nims, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Controlled dashpot for fuel metering devices. 2,609,662, Sept. 9.

Voorhis, William B.: *See*—
Bender, Harry, and Voorhis.

Wachovia Bank and Trust Co., assignee: *See*—
Balinson, Agnew H., Jr.

Waggener, Kenneth E., Brea, Calif. Split knocker-head jar and safety unit. 2,610,027, Sept. 9.

Waidman, Donald C.: *See*—
Parry, Harvey L., and Waidman.

Wales, Nathaniel B., assignor to Industrial Patent Corporation, New York, N. Y. Unitized centrifugal refrigerating machine. 2,609,672, Sept. 9.

Wallace & Tiernan Products, Inc., assignee: *See*—
Kirwan, John O.

Walsh, Clark F., Nashua, Iowa. Device for spreading agricultural chemicals. 2,610,076, Sept. 9.

Walter, Andrew T., and B. A. Price, South Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Water-soluble multifilament yarn and making it. 2,609,569, Sept. 9.

Walton, Wilson W., Oak Ridge, Tenn., and R. C. Bowers, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Flow control. 2,610,300, Sept. 9.

Ward Blenkinsop & Company Limited, assignee: *See*—
Hopf, Peter P., and Hey.

Ward, Mark, Spokane, Wash. Washing device for artificial dentures. 2,609,828, Sept. 9.

Warner Bros. Pictures, Inc., assignee: *See*—
Wissmann, Joseph T.

Warner, Donald T.: *See*—
Moe, Owen A., and Warner.

Warren, William M., Ulysses, Kans., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Cementing wells. 2,609,881, Sept. 9.

Waterloo Foundry Company, assignee: *See*—
Harmon, Cline H.

Watrous, Ward W., Jr., Chatham, assignor to Chatham Electronics Corporation, Newark, N. J. Control electrode for discharge tubes. 2,610,305, Sept. 9.

Watson, Carlos H., Richland, Iowa. Hydraulic adjusting mechanism for harvesting machines. 2,609,649, Sept. 9.

Watson, Frederick K., J. L. Ludlow, and J. C. Tallman, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Adhesive composition and seam. 2,609,903, Sept. 9.

Watson, Orla E., Kansas City, Mo. Pressure range control. 2,609,833, Sept. 9.

Watts, Chester B., Jr., Indianapolis, Ind., assignor to International Standard Electric Corporation, New York, N. Y. Glide path antenna. 2,610,321, Sept. 9.

Way, George H., assignor to C. G. Conn, Ltd., Elkhart, Ind. Drum. 2,609,722, Sept. 9.

Webber, Jack C., Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa. Permanent type packing means for wells. 2,609,879, Sept. 9.

Weiss, Charles C., assignee: *See*—
Barnard, Norval J.

Weissberger, Bela, New York, N. Y. Hair grooming device. 2,609,821, Sept. 9.

Weisz, Paul B., Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Separation of partly dried gel particles. 2,609,925, Sept. 9.

Wells, Dallas E.: *See*—
Shelden, Virgil M., and Wells.

Wells, Merle N., Fairview, Pa. Bedside stand and tray. 2,609,938, Sept. 9.

Wennlund, Otto H., Geneva, Ill. Milk cooler. 2,610,035, Sept. 9.

Wernig, James H., assignor to General Motors Corporation, Detroit, Mich. Windshield wiper. 2,609,561, Sept. 9.

Western Electric Company, Incorporated, assignee: *See*—
Bell, James S.
Butterfield, Louis B.
Cranford, Jesse A.
Moss, Earl C.
Zuck, Nicholas.

Wettstein, Erwin, Zurich, assignor to FKG Fritz Kesselring Gerätebau Aktiengesellschaft, Bachtobel-Weinfelden, Switzerland. Synchronous electric current switching appaartus. 2,610,231, Sept. 9.

Wharton, Edward M.: *See*—
Chao, Tsai H., and Wharton.

Wheeler, Gordon D., and J. H. Reilly, Monte Vista, Colo. Refrigerant attachment for cartons. 2,609,670, Sept. 9.

Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Electromagnetic-wave energy-absorbing material. 2,610,250, Sept. 9.

Whelchel, Rupert C., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Commutator testing and sorting device. 2,609,927, Sept. 9.

Whetstone, Richard R., Orinda, assignor to Shell Development Company, San Francisco, Calif. Cyclic organic compounds. 2,610,193, Sept. 9.

Whitbeck, Roland A., Lorain, assignor to Gliron Products Company, Cleveland, Ohio. Producing vitreous enamelled metal articles. 2,609,594, Sept. 9.

Whitbeck, Roland A., Lorain, assignor to Gilron Products Company, Cleveland, Ohio. Producing metal articles with highly finished surfaces for coating. 2,609,780, Sept. 9.

White, Ralph V.: *See*—
Trigg, Hastings S., Norris, and White.

Whitehill, Albert J.: *See*—
Risley, Roger E., and Whitehill.

Whitlock, Fred W., assignor to Automatic Pump & Softener Corporation, Rockford, Ill. Valve structure. 2,610,023, Sept. 9.

Widmer, Willi, Bottmingen, F. Schuetz, Neuewelt, near Basel, and A. Heckendorn, assignors to Ciba Limited, Basel, Switzerland. Dyeing processes for wool and preparations therefor. 2,610,103, Sept. 9.

Widmer, Willy, Bottmingen, and A. Buehler, Rheinfelden, assignors to Ciba Limited, Basel, Switzerland. Complex chromium compounds of monoazo-dyestuffs. 2,610,175, Sept. 9.

Wiegand, David E., Villa Park, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Integrator and hysteresis loop tracer. 2,610,230, Sept. 9.

Wight, Sedgwick N.: *See*—
Field, Oscar S., and Wight.

Wilbe Research Corporation, assignee: *See*—
Forman, Benjamin G.

Wildhaber, Ernest, Rochester, N. Y. Axle drive. 2,609,711, Sept. 9.

Wilkenson, Erik A., and P. T. Faxen, assignors to Svenska Aeroplan Aktiebolaget, Linkoping, Sweden. Bombing instrument for aircraft. 2,609,729, Sept. 9.

Williams, Charles C. W.: *See*—
Balsiger, Harold E., and Williams.

Williams, Keith, Buffalo, N. Y. Friction shock absorber. 2,610,053, Sept. 9.

Williamson, Cecil M., Elmhurst, and E. D. Boisselier, Glen Ellyn, assignors to Sears, Roebuck and Co., Chicago, Ill. Electrothermal bag sealer. 2,610,137, Sept. 9.

Wilson, Abram B., Weirton, W. Va., assignor to National Steel Corporation. Electroplating. 2,610,145, Sept. 9.

Wilson, Donald M., West Des Moines, Iowa. Can opener. 2,609,599, Sept. 9.

Wilson, John A., and J. H. Hansen, assignors to The Timken-Detroit Axle Company, Detroit, Mich. Air volume regulator for stokers. 2,609,834, Sept. 9.

Wilson, Wesley, Chicago, Ill. Infrared oven construction. 2,610,280, Sept. 9.

Winchester Electronics, Incorporated, assignee: *See*—
Burtt, Horatio H., Koenig, and Gilbert.

Winder, Samuel E., Knox, Pa., assignor of one-half to H. C. Daubenspeck, Massillon, Ohio. Take-out mechanism. 2,609,943, Sept. 9.

Winkler, Albert H., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,609,806, Sept. 9.

Winkler, Albert H., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,609,807, Sept. 9.

Winsted Hardware Manufacturing Company, The, assignee: *See*—
Bate, Alan.

Winters, Russell A.: *See*—
Mack, Louis P., and Winters.

Wirth, Emil O., and F. Barfod, assignors to Bendix Aviation Corporation, South Bend, Ind. Fuel metering jet adjustment. 2,610,024, Sept. 9.

Wirth, Emil O., and F. Barfod, assignors to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,610,044, Sept. 9.

Wissmann, Joseph T., assignor to Warner Bros. Pictures, Inc., Burbank, Calif. Magnetic record volume control. 2,610,257, Sept. 9.

Wofford, George D., assignor to Bendix Aviation Corporation, Towson, Md. Neutralization of high gain amplifiers. 2,610,261, Sept. 9.

Wolf, Ezekiel, Dorchester, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company. Depth sounding apparatus. 2,610,244, Sept. 9.

Wood Conversion Company, assignee: *See*—
Heritage, Clark C.

Woroneski, Joseph, Croydon, Pa. Rag rug making device. 2,609,676, Sept. 9.

Worthington Corporation, assignee: *See*—
Wright, Elliott F., and Rockwood.

Wright, Elliott F., Summit, and A. G. Rockwood, Nutley, N. J., assignors to Worthington Corporation. Reciprocating pump. 2,609,756, Sept. 9.

Wright, Richard C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Gas burner. 2,609,866, Sept. 9.

Wrockloff, Palmer: *See*—
Gardner, Adryl W., and Wrockloff.

Wuebben, Mary C.: *See*—
Staehlin, Ralph H., and Wuebben.

Wulf, Charles A., assignor to Ceramic Process Co., Indianapolis, Ind. Mechanism for coating interior of hollow articles. 2,609,788, Sept. 9.

Wüsteney, Herbert, Kladow, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany. Teleprinter receiver device. 2,610,247, Sept. 9.

Yardeny, Michel N., now by judicial change of name Michel N. Yardney, assignor to Yardney International Corp., New York, N. Y. Rechargeable battery. 2,610,219, Sept. 9.
Yardney International Corp., assignee: *See*— Yardeny, Michel N.
Yardney, Michel N.: *See*— Yardeny, Michel N.
Youngquist, Carl H.: *See*— Goldmark, Peter C., and Youngquist.
Yula, Henry F., New York, and R. W. Yula, Flushing, assignors to Yula Water Heaters, Inc., New York, N. Y. Fuel oil heater with means for preventing entrainment of fuel oil with the circulating medium. 2,610,267, Sept. 9.
Yula, Ralph W.: *See*— Yula, Henry F., and R. W.
Yula Water Heaters, Inc., assignee: *See*— Yula, Henry F., and R. W.
Zaloudek, Theodore V., Bridgeport, Conn., assignor to General Electric Company. Stabilized saw tooth oscillator. 2,610,298, Sept. 9.
Zeeb, Elmer G., Grosse Pointe Woods, assignor to Chrysler Corporation, Highland Park, Mich. Sun visor. 2,610,085, Sept. 9.
Zuck, Nicholas, Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Cutting apparatus. 2,609,875, Sept. 9.
Zumstein, Paul M., assignor to The Timken Roller Bearing Company, Canton, Ohio. Spindle or anvil attachment for a micrometer. 2,609,608, Sept. 9.
Zwobada, René: *See*— Touraton, Emile, and Zwobada.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice)

Concentric pipe insulator and spacer. D. H. Bond. Re. 23,545, Sept. 9.
Electric power assistor. E. G. Staude. Re. 23,550, Sept. 9.
Power-transmission mechanism. H. Sinclair. Re. 23,549, Sept. 9.
Preserving spray dried food products. P. F. Sharp and A. J. Wasson. Re. 23,548, Sept. 9.
Quick detachable connector. B. Fox. Re. 23,547, Sept. 9.
Transporting equipment. G. R. Dempster. Re. 23,546, Sept. 9.

LIST OF PLANT INVENTIONS

Peach tree. T. B. Stribling, Jr. 1,127, Sept. 9.
Rose plant. C. M. Amling and G. Beltran. 1,126, Sept. 9.

LIST OF DESIGN INVENTIONS

Ash tray. F. N. Mariani. 167,702–3, Sept. 9.
Ash tray. L. A. Revell. 167,720, Sept. 9.
Awning. R. B. Price. 167,717, Sept. 9.
Bed spring support. R. W. Rosenthal, Jr. 167,722, Sept. 9.
Bicycle trainer. M. Kosack. 167,697, Sept. 9.
Bottle. A. I. Lorenzen. 167,701, Sept. 9.
Bowl, Manicurist. L. H. Blackburn. 167,672, Sept. 9.
Box, Jewelry. F. M. Bedinger. 167,668, Sept. 9.
Brassière. S. and I. Gerstein. 167,685, Sept. 9.
Brooch or the like. A. Philippe. 167,711–16, Sept. 9.
Bug deflector. A. Chicorel. 167,676, Sept. 9.
Cabinet, Display. L. S. Dorsey. 167,679, Sept. 9.
Cabinet, Kitchen wall. R. D. Sherman. 167,724, Sept. 9.
Clip. M. I. Glass. 167,686–7, Sept. 9.
Clothespin. A. R. Teare. 167,727, Sept. 9.
Container, Cosmetic. R. B. Hopgood. 167,690, Sept. 9.
Dairy products carrier. C. H. Berglund. 167,670, Sept. 9.
Dictating machine, Magnetic recording. P. Stroobants. 167,726, Sept. 9.
Fabric, Textile. W. R. Cuddy. 167,677, Sept. 9.
Fountain feeder and waterer, Combination. C. G. Muehlfeld. 167,709, Sept. 9.
Front for spectacle frames. C. McCardell. 167,704, Sept. 9.
Holder for milk containers. J. V. Biggs. 167,671, Sept. 9.
Holder for playing cards. A. Werner, Sr. 167,729, Sept. 9.
Jewelry display package or similar article. J. J. Hommer. 167,688–9, Sept. 9.
Juice extractor. J. L. Hvale. 167,692, Sept. 9.
Keg. C. Lipson. 167,700, Sept. 9.
Lamp. P. H. Irmischer. 167,693–4, Sept. 9.
Lamp base, Electric. D. Borowitz. 167,673, Sept. 9.
Lamp, Night. J. H. Rich. 167,721, Sept. 9.
Lighting fixture. T. F. P. Bell, R. C. Kember, and L. T. Anderson. 167,669, Sept. 9.
Lighting fixture. T. B. and R. K. Farrington, F. K. Ikeda, and R. P. Mercer. 167,680–1, Sept. 9.
Locking closure for containers. J. W. Soffer. 167,725, Sept. 9.
Mask or the like. J. H. Miller. 167,706, Sept. 9.
Pedicure table and footrest or similar article, Combination. P. M. Chancellor. 167,675, Sept. 9.
Pendant fixture for sanctuary side lighting. E. R. Huegel. 167,691, Sept. 9.
Pin or similar article. D. Willinger. 167,731, Sept. 9.
Pour counter for liquor bottles. W. J. Miller. 167,707, Sept. 9.
Refrigerator unit for an oxygen tent. R. J. Reading. 167,719, Sept. 9.
Sash hinge. C. W. Kelly. 167,696, Sept. 9.
Shear. F. E. Munschauer, Jr. 167,710, Sept. 9.
Ship. W. Wiggins, Jr. 167,730, Sept. 9.
Soup skimmer. W. C. Denhof. 167,678, Sept. 9.
Spoon or similar article. W. S. Warren. 167,728, Sept. 9.
Spoon or the like. N. J. Mercer. 167,705, Sept. 9.
Stocking. M. Fisher and F. L. Ireland. 167,682–4, Sept. 9.
Stocking. J. D. Isley. 167,695, Sept. 9.
Telephone rest. J. C. S. Branson. 167,674, Sept. 9.
Telephone stand and memorandum holder, Combination. A. Moore. 167,708, Sept. 9.
Televiewing floor rest. J. P. Argento. 167,666, Sept. 9.
Television tube body. F. M. Lambert. 167,698–9, Sept. 9.
Toy, Bandalore. G. F. Scott. 167,723, Sept. 9.
Vessel, Reversible drinking. A. Babany. 167,667, Sept. 9.
Wall plaque and pin-up lamp, Combined. L. Rabkin. 167,718, Sept. 9.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accessory control system. A. Rappl. 2,609,665, Sept 9.
Adhesive cement solution containing a sulfur-cured rubber. H. J. Hoffman. 2,610,162, Sept. 9.
Adhesive composition and seam. F. K. Watson, J. L. Ludlow and J. C. Tallman. 2,609,963, Sept. 9.
Adjustable beam clamp. H. L. Kindorf and O. C. Kindorf. 2,609,582, Sept. 9.
Adjustable liquid gauge. H. L. Coleman. 2,609,687, Sept. 9.
Adjustable magnetic pressure valve. J. B. Horvay. 2,609,835, Sept. 9.
Adjusting supporting device. H. H. Lemmerman. 2,610,011, Sept. 9.
Admission valve mechanism for resonance combustion chambers. R. H. Goddard. 2,610,064, Sept. 9.
Adsorption process and apparatus. C. H. O. Berg. 2,609,887, Sept. 9.
Air admission director for oil burners. T. W. Murphy and J. M. Carroll. 2,609,869, Sept 9.
Air conditioning. H. C. Shagaloff. 2,610,032, Sept. 9.
Air conditioning system. Dual duct. C. M. Ashley and W. L. McGrath. 2,609,743, Sept. 9.
Air flue in refrigerating apparatus. T. C. Gleason. 2,609,671, Sept. 9.
Air intake preheater for automobile engines. K. M. Brownell. 2,610,282, Sept. 9.
Air navigation system. A. L. Rawlings and H. H. Thompson. 2,609,683, Sept. 9.
Air-speed integrator. J. B. Peterson. 2,609,686, Sept. 9.
Air tank for automobile tires, Auxiliary. H. G. McQuiston. 2,609,857, Sept. 9.
Air vent and cleaner therefor. S. V. Sapien. 2,609,961, Sept. 9.
Alarm, Low water. W. M. Smith. 2,610,236, Sept. 9.
Aldehyde esters, Producing. H. J. Hagemeyer, Jr., and D. C. Hull. 2,610,203, Sept. 9.
Aligned thread gauge. S. G. Johnson. 2,609,614, Sept. 9.
All-purpose garment hanger. E. C. Lausch. 2,609,977, Sept. 9.
Altimeter, Circuit controlling. O. S. Field and S. N. Wight. 2,609,684, Sept. 9.
Altimeter, Portable. J. O. Kirwan. 2,609,691, Sept. 9.
Ammonia, Production of. W. Gray. 2,610,106, Sept. 9.
Amplifying dynamoelectric machine of the metadyne type. J. M. Pestarini. 2,610,316, Sept. 9.
Ampule, Automatic injecting. J. J. Parrine. 2,609,818, Sept. 9.
Antenna, Glide path. C. B. Watts, Jr. 2,610,321, Sept. 9.
Apparatus and method of embossing thermoplastic sheets. R. E. Getchell. 2,609,568, Sept. 9.
Apparatus for adjusting vehicle headlamps. J. B. Dickson. 2,609,611, Sept. 9.
Apparatus for combining materials. T. B. Epps. 2,609,969, Sept. 9.
Apparatus for conditioning high temperature chemical fusion reactions and operations. J. F. Adams, R. L. Bauer, and G. E. Taylor. 2,610,109, Sept. 9.
Apparatus for constructing concrete floors. J. Ledbetter. 2,609,585, Sept. 9.
Apparatus for cooling and dispensing liquids. H. L. and J. K. Buffington. 2,610,101, Sept. 9.
Apparatus for lubricating shafts. M. Mallory. 2,610,096, Sept. 9.
Apparatus for pressure injecting casting material by diaphragm pumps. L. H. Morin. 2,609,575, Sept. 9.
Apparatus for resurfacing plastic record belts and the like. A. I. Kegan and F. S. Ajero. 2,609,789, Sept. 9.
Apparatus for sealing containers. R. A. Farrell and W. G. Mueller. 2,609,735, Sept. 9.
Apparatus for sealing wells. J. G. Dyer. 2,609,880, Sept. 9.
Apparatus for sorting postal packets. J. F. Doust. 2,609,928, Sept. 9.
Apparatus for the continuous casting of metal rods. I. Rossi. 2,609,574, Sept. 9.
Apparatus for transmitting hot pans of bread from ovens. N. J. Nicoletti. 2,609,944, Sept. 9.
Apparatus for washing spongy material. J. T. Marvin and G. H. McFadden. 2,609,826, Sept. 9.
Apparatus for working pastes. P. Dryon. 2,610,042, Sept. 9.
Article feeding device. H. E. Balsiger and C. C. W. Williams. 2,609,914, Sept. 9.
Article grouping mechanism. A. C. Davis. 2,609,911, Sept. 9.

Articulation of track links of endless tracks. H. Grandgirard. 2,610,094, Sept. 9.
Aryl mono-carboxylic acids, Preparation of. J. L. Darragh and R. J. Miller. 2,610,211, Sept. 9.
Audio limiter circuits. L. C. Fuller, Jr. 2,610,252, Sept. 9.
Audio-power switching system for radio-television receiver combinations. C. E. Torsch. 2,610,251, Sept. 9.
Automatic apparatus for the manufacture by hand of all kinds of knitted fabrics. T. Domenech. 2,609,675, Sept. 9.
Automatic chuck. O. H. Banker. 2,610,065, Sept. 9.
Automatic frequency control circuit. D. Leed. 2,610,297, Sept. 9.
Automobile safety device, Electrical. R. Joksch. 2,610,238, Sept. 9.
Automobile screen. A. K. Arthur. 2,609,872, Sept. 9.
Auxiliary adjustable pot handle. C. D. Budelman. 2,609,563, Sept. 9.
Axle drive. E. Wildhaber. 2,609,711, Sept. 9.
Badge. J. R. Hubbard. 2,609,629, Sept. 9.
Bag: *See*—
Wheeled shopping bag.
Bag package with fork-lift handling means. B. E. Simonton. 2,609,923, Sept. 9.
Bag sealer, Electrothermal. C M. Williamson and E. D. Boisselier. 2,610,137, Sept. 9.
Bag weighing and filling machine. W. R. Peterson. 2,610,020, Sept. 9.
Baggage handle. W. Finkelstein. 2,609,898, Sept. 9.
Bake pan unit. J. L. Darnell and E. M. Cormack. 2,609,959, Sept. 9.
Ball game switch. D. E. Hooker and R. H. Breither. 2,610,277, Sept. 9.
Ball reprojector, Oscillating. D. E. Hooker. 2,610,058, Sept. 9.
Ball staking machine for pen tips. F. Ferber. 2,609,774, Sept. 9.
Bar: *See*—
Tow bar.
Basket-like device and making same. C. F. Mzik. 2,609,958, Sept. 9.
Bathtub with contained shower curtain. M. L. Clark. 2,609,547, Sept. 9.
Battery plate feed device. L. A. Doughty. 2,609,945, Sept. 9.
Battery, Rechargeable. M. N. Yardeny. 2,610,219, Sept. 9.
Belt buckle. P. A. Beyer. 2,609,577, Sept. 9.
Bending pipe, Method and apparatus for. F. A. Fichtmueller. 2,609,859, Sept. 9.
Benzothiazole through pyrolysis, Preparation of. T. H. Chao and E. M. Wharton. 2,610,190, Sept. 9.
Bit. A. C. Elles and F. L. Fulke. 2,610,049, Sept. 9.
Blasting. D. M. McFarland. 2,609,750, Sept. 9.
Blasting operation and blasting assembly for use therein, Safety. J. Taylor and T. Thomson. 2,609,751, Sept. 9.
Bobber. K. C. Simpson. 2,609,634, Sept. 9.
Bobbin cutter. E. K. Bauer and W. E. James. 2,609,876, Sept. 9.
Bobbin, Metal. W. H. Miller. 2,610,004, Sept. 9.
Body protective pad for use in contact sports. B. A. Pfaff. 2,609,537, Sept. 9.
Boiler. R. C. Brierly. 2,609,798, Sept. 9.
Bombing instrument for aircraft. E. A. Wilkenson and P. T. Faxen. 2,609,729, Sept. 9.
Book holder. M. J. Stone. 2,609 636, Sept. 9.
Bookmark. L. G. Meyers. 2,610,074, Sept. 9.
Bored casting handling device. N. C. Hill. 2,610,082, Sept. 9.
Bottle sorting machine. W. Hartig and J. J. Smith. 2,609,926, Sept. 9.
Bracket: *See*—
Window bracket.
Brake: *See*—
Self-powering fluid brake.
Brake. R. F. Smith. 2,609,892, Sept. 9.
Brake and stop mechanism. C. F. Rauen. 2,609,901, Sept. 9.
Brake pedal extension for motor vehicles. I. R. Fletcher, Sr. 2,609,705, Sept. 9.
Brake shoe. H. E. Hodgson. 2,609,895, Sept. 9.
Brassière with adjustable breast supporting members. J. J. Lo Cascio. 2,609,540, Sept. 9.
Brightening and passivating cadmium and zinc. F. X. Thomson. 2,610,133, Sept. 9.

Bromine water feeder. D. Lundy. 2,610,148, Sept. 9.
Broom, Hand. R. R. Reed. 2,609,557, Sept. 9.
Brush and brush material. R. O. Peterson. 2,609,642, Sept. 9.
Brush, Rotary. R. O. Peterson. 2,609,559, Sept. 9.
Burner: *See*—
Gas burner.
Bust receiving and supporting member. H. E. Shearer. 2,609,539, Sept. 9.
Button, Adjustable. N. Statham. 2,609,581, Sept. 9.
Cake platter, Ornamental. M. E. Stanley. 2,610,111, Sept. 9.
Calendar. A. B. Downs, Jr. 2,609,630, Sept. 9.
Cam grinding and marking fixture. R. E. Shetler. 2,609,643, Sept. 9.
Camera focusing device. E. D. Markle. 2,609,737, Sept. 9.
Camera holder. R. H. Staehlin and M. C. Wuebben. 2,609,738, Sept. 9.
Cap: *See*—
Delay electric blasting cap.
Pin doweled bearing cap.
Cap and disk, Combined. F. D. Moore. 2,609,955, Sept. 9.
Car: *See*—
Sleeping car.
Carburetor. A. H. Winkler. 2,609,806, Sept. 9.
Carburetor. E. O. Wirth and F. Barfod. 2,610,044, Sept. 9.
Card or folder, Greeting. A. Barker. 2,609,639, Sept. 9.
Cargo securing means. W. H. Clark. 2,609,761, Sept. 9.
Carton, Tumbler carrying. H. V. Bolding. 2,609,981, Sept. 9.
Case for inflatable articles, Protective. C. P. Krupp. 2,609,549, Sept. 9.
Case for shoes, Traveling. S. Meyer. 2,609,897, Sept. 9.
Cementing wells. W. M. Warren. 2,609,881, Sept. 9.
Centrifugal mill. J. Klagsbrunn. 2,609,995, Sept. 9.
Centrifuge. R. A. Hall. 2,609,617, Sept. 9.
Chair: *See*—
Hospital chair.
Chlorinated hydrocarbons, Manufacturing. L. Vanharen. 2,610,215, Sept. 9.
Chopper. C. R. Schafer. 2,610,270, Sept. 9.
Chuck. R. J. S. Pigott. 2,610,066, Sept. 9.
Chuck key, Self-ejecting. C. G. H. Lilley. 2,609,719, Sept. 9.
Cigar and cigarette holder. R. Vakilian. 2,609,820, Sept. 9.
Circuit: *See*—
Automatic frequency control circuit.
Coincidence circuit.
Keyboard operated translating circuit.
Motor generator circuit.
Radio frequency coupling circuit.
Vacuum tube keying circuit.
Circuit breaker. E. T. Platz. 2,610,272, Sept. 9.
Circular loom and operating same. C. S. Cole. 2,609,838, Sept. 9.
Clamp: *See*—
Adjustable beam clamp.
Closure cap for closing the outlet spout and key for opening the filling plug of a liquid container, Combined. S. S. Blumson. 2,609,970, Sept. 9.
Clothes peg. J. Hansen. 2,609,579, Sept. 9.
Clutch: *See*—
Friction clutch.
One-way clutch.
Spring type clutch.
Clutch control mechanism. T. H. Thomas. 2,609,899, Sept. 9.
Clutch control mechanism. T. H. Thomas. 2,609,905, Sept. 9.
Clutch mechanism. P. Garnier. 2,609,903, Sept. 9.
Coin collector, Telephone. L. J. J. Schreiber and G. X. lens. 2,610,253, Sept. 9.
Coincidence circuit. R. E. Bell. 2,610,303, Sept. 9.
Collar supporting attachment for coat hangers. A. S. and J. A. Burk. 2,609,976. Sept. 9.
Collocating printing member. C. V. Capers. 2,609,613, Sept. 9.
Combination tool. W. N. Schultz. 2,609,962, Sept. 9.
Combustion analysis apparatus. G. M. Dreher. 2,610,107, Sept. 9.
Commutator testing and sorting device. R. C. Whelchel. 2,609,927, Sept. 9.
Compensating spring take-up tension for bobbin change shuttles. C. H. Durham. 2,609,843, Sept. 9.
Complex chromium compounds of monoazo-dyestuffs. W. Widmer and A. Buehler. 2,610,175, Sept. 9.
Composite picture television. A. N. Goldsmith. 2,610,246, Sept. 9.
Composition for cementing wells. B. E. Morgan and G. K. Dumbauld. 2,609,882, Sept. 9.
Composition for the prevention and control of coccidiosis in poultry. V. A. Santivasi. 2,610,140, Sept. 9.
Compositions and method for reducing the loss of crop by frost damage to flowering plants. P. P. Hopf and G. L. Hey. 2,610,117, Sept. 9.
Compositions of vinyl chloride resins and aromatic esters of sulfonated alkanes. E. W. Gluesenkamp and J. Dazzi. 2,610,164–5, Sept. 9.
Computer, Electric analogue. S. Beckwith and E. C. Koenig. 2,609,988, Sept. 9.
Condensing a 4-amino polyaryl methane and acetone. J. R. Ingram. 2,160,172, Sept. 9.
Conducting geophysical surveys from an aircraft, Method and apparatus for. J. M. Klaasse and H. Jensen. 2,610,226, Sept. 9.
Connector: *See*—
Construction toy connector.
Quick detachable connector.
Connector for flexible bracelets, End. A. J. Garreau. 2,609,584, Sept. 9.
Construction toy connector. R. S. Lindenmeyer. 2,609,638, Sept. 9.
Container: *See*—
Cosmetic container.
Silverware container.
Container for paste, holder therefor, and cooperative combination brush and cover for use therewith. N. S. Florence. 2,609,562, Sept. 9.
Container with flat top and integral overcap. G. C. Reid and S. S. Jacobs. 2,609,985, Sept. 9.
Continuity test apparatus. J. A. Cranford. 2,610,229, Sept. 9.
Control electrode for discharge tubes. W. W. Watrous, Jr. 2,610,305, Sept. 9.
Control for water softening apparatus. L. G. Lindsay. 2,610,147, Sept. 9.
Control head and blow-out preventer. G. S. Knox. 2,609,836, Sept. 9.
Control system for an automotive type of pumper. A. W. Griswold. 2,609,755, Sept. 9.
Conveyer, Power driven roller. H. R. Gotthardt. 2,609,917, Sept. 9.
Conveying apparatus. A. R. De Burgh. 2,609,915, Sept. 9.
Cooler: *See*—
Milk cooler.
Copolymerizing acrylonitrile and vinylidene chloride at constant reflux temperature. G. E. Ham. 2,610,173, Sept. 9.
Copolymers obtained from trifluorochloroethylene and methyl methacrylate. F. G. Pearson. 2,610,174, Sept. 9.
Core construction for electrical equipment. F. Korski. 2,610,225, Sept. 9.
Corn cutting device. W. M. Houldsworth. 2,609,852, Sept. 9.
Corrugated paperboard, Manufacture of. J. P. Casey, L. O. Gill, and R. A. Sherman. 2,610,136, Sept. 9.
Cosmetic container. F. R. Book, Jr. 2,609,922, Sept. 9.
Coupler lock lifter toggle link. J. N. Borland. 2,609,941, Sept. 9.
Coupling: *See*—
Pencil coupling.
Cover: *See*—
Skillet cover.
Cover for return conveyer runs. A. W. Duncan. 2,609,918, Sept. 9.
Cover for vehicle beds, Collapsible. L. Shield. 2,610,086, Sept. 9.
Cover stack height controlling means. N. H. Goldsworthy. 2,609,779, Sept. 9.
Crane boom suspension. K. E. Grundvig. 2,609,940, Sept. 9.
Crate and box construction. H. F. Sester. 2,609,957, Sept. 9.
Crossbow. A. V. Gruner. 2,609,810, Sept. 9.
Crushing or pulverizing machine. V. J. Matthews. 2,609,992, Sept. 9.
Crystal triode. A. H. Dickinson. 2,610,234, Sept. 9.
Cultivator attachment for tractors. E. Evenson. 2,609,741, Sept. 9.
Current collector. J. E. Tong and M. McBiles. 2,610,263,
Cutter: *See*—
Bobbin cutter.
Cutting apparatus. N. Zuck. 2,609,875, Sept. 9.
Cyclic organic compounds. R. R. Whetstone. 2,610,193, Sept. 9.
Cylinder head for internal-combustion engines. E. P. Pescara. 2,609,805, Sept. 9.
Cylinder papermaking machine. R. H. Breyfogle. 2,609,732, Sept. 9.
DDT, Manufacture of. N. E. Searle. 2,610,213, Sept. 9.
Dam. J. Mesnager. 2,609,666, Sept. 9.
Dashpot for fuel metering devices, Controlled. P. R. Vogt and P. T. Nims. 2,609,662, Sept. 9.
Decoration of heat-resisting bases, such as glass, earthenware, and china. F. E. Kerridge and C. S. Couper. 2,610,126, Sept. 9.
Defibering presoaked lignocellulose. G. Magnuson. 2,610,119, Sept. 9.
Dehydrating lignite. H. G. Lykken. 2,610,115, Sept. 9.
Delay electric blasting cap. J. E. Jeffery. 2,609,752, Sept. 9.
Dental screw insert. B. F. Sprague. 2,609,604, Sept. 9.
Denture retaining means. J. P. Dillon. 2,609,605, Sept. 9.
Depth sounding apparatus. E. Wolf. 2,610,244, Sept. 9.
Design dyeing apparatus. S. B. Schwartz and R. D. Blum, Jr. 2,609,747, Sept. 9.
Detergent compositions containing aminocoumarins. F. Ackermann. 2,610,152, Sept. 9.
Device and process for producing champagne, sparkling wines, and other fermented beverages. A. and J. A. R. Bruyere. 2,610,123. Sept. 9.
Device for administering drenches to livestock. A. F. Mitchell. 2,609,819, Sept. 9.

Device for dispensing granular soap. M. C. Persons. 2,609,967, Sept. 9.
Device for dropwise dispensing of liquids. G. Szekely. 2,609,972, Sept. 9.
Device for opening paper cartons. J. D. Eades. 2,609,715, Sept. 9.
Device for removing misaligned or misshapen dough sheets from conveyers. R. P. Steadman. 2,609,763, Sept. 9.
Device for splitting clams. W. Mostowicz. 2,609,565, Sept. 9.
Device for spreading agricultural chemicals. C. F. Walsh. 2,610,076, Sept. 9.
Device for the insertion of different wefts in weft feeder looms without pirn. R. Dewas. 2,609,842, Sept. 9.
Dial set for carrier or 2-wire lines. W. Brandt. 2,610,256, Sept. 9.
Dictating machine signal. A. I. Kegan. 2,610,061, Sept. 9.
Die: *See*
Hydraulic die.
Die for pipe tongs and making same. N. J. Barnard. 2,609,720, Sept. 9.
Dielectric wave guide system. M. D. Fiske. 2,610,249, Sept. 9.
Dies for making truck lever connections. O. Otterson. 2,609,861, Sept. 9.
Differential gear control device. L. H. and H. B. Pixler. 2,609,709, Sept. 9.
Disk harrow, Tractor mounted. J. A. Love. 2,609,647, Sept. 9.
Dispenser: *See*—
Hot fudge dispenser. Salt dispenser.
Portable batter dispenser. Tape dispenser.
Dispensing machine, Fluid. R. W. Johnson. 2,609,982, Sept. 9.
Display rack for cloth. W. M. Daines. 2,609,999, Sept. 9.
Disposable plastic valve. D. W. Brous. 2,609,974, Sept. 9.
Distillation of fatty acids. E. A. Lawrence. 2,610,142, Sept. 9.
Ditching machine of the boom type, Cable operated side-line. L. B. Babin. 2,609,621, Sept. 9.
Dog spindle assembly. F. M. Lambert. 2,610,079, Sept. 9.
Door closing and locking means for coal cars. C. J. Koranda. 2,609,758, Sept. 9.
Door handle. G. V. Jakeway. 2,610,080, Sept. 9.
Door, sash and the like. W. Johnson. 2,609,573, Sept. 9.
Dough divider. J. E. Pointon. 2,609,765, Sept. 9.
Dragline ripper. G. Uotila and J. W. Sandusky. 2,610,047, Sept. 9.
Drapery pleating. D. R. Falkenberg. 2,609,873, Sept. 9.
Drill: *See*—
Hydraulic rotary drill.
Drill cradle. H. A. Gillerstrom. 2,610,030, Sept. 9.
Drill feed mechanism with reciprocating nonrotating feed cylinder. S. C. Moon. 2,610,029, Sept. 9.
Drilling mud weight recorder. W. J. Bielstein. 2,609,681, Sept. 9.
Drive mechanism for washing machines and the like. G. W. Ruscoe. 2,609,697, Sept. 9.
Drum. G. H. Way. 2,609,722, Sept. 9.
Dyeing processes for wool and preparations therefor. W. Widmer, F. Schuetz, and A. Heckendorn. 2,610,103, Sept. 9.
Easily processed polymeric compounds and making same. T. A. Te Grotenhuis. 2,610,163, Sept. 9.
Edge roll forming and sewing machine. J. A. Cash and J. A. Cash, Jr. 2,609,768, Sept. 9.
Edible fatty material. E. I. Valko. 2,610,125, Sept. 9.
Electret array sensitive to radio waves. R. H. Rines. 2,610,245, Sept. 9.
Electric enamel furnace. R. E. Skinner and G. H. McIntyre. 2,610,217, Sept. 9.
Electric fence. H. W. Norris. 2,610,224, Sept. 9.
Electric heating element. D. B. Cox. 2,610,286, Sept. 9.
Electric power indicating switch. L. N. Benner. 2,610,237, Sept. 9.
Electric range heating element supporting structure. E. A. Rutenber and H. Tillapaugh. 2,610,281, Sept. 9.
Electric switch. C. A. Schaefer. 2,610,265, Sept. 9.
Electrical apparatus. R. R. English. 2,610,299, Sept. 9.
Electrical connector with adjustable cover. H. H. Burtt, W. W. Koenig and L. Gilbert. 2,610,222, Sept. 9.
Electrical signaling system. M. den Hertog and J. Kruithof. 2,610,255, Sept. 9.
Electromagnetic vibratory device. J. S. P. Roberton. 2,610,259, Sept. 9.
Electromagnetic-wave energy-absorbing material. H. A. Wheeler. 2,610,250, Sept. 9.
Electromagnetic wave interceptor. J. D. Reid. 2,610,296, Sept. 9.
Electronic control for gravimetric feeders. G. Kast. 2,609,965, Sept. 9.
Electronic frequency modulator. G. R. Clark. 2,610,318, Sept. 9.
Electroplating. A. B. Wilson. 2,610,145, Sept. 9.
Electroplating apparatus for moving strip. W. W. Kompart. 2,610,146, Sept. 9.
Electropolishing. S. E. Eaton. 2,610,143–4, Sept. 9.
Enclosed internally heated electric discharge lamp luminaire for variable temperature service. A. A. Brainerd. 2,610,289, Sept. 9.
Engine: *See*—
Resonating pulse jet engine. Two-stroke cycle internal-combustion engine.
Engine and cooling system therefor, Internal-combustion. E. C. Klekhaefer. 2,609,801, Sept. 9.
Engine cooling and lubricating system. W. E. Brill. 2,609,799, Sept. 9.
Engine including means for igniting the fuel within exhaust chambers exteriorly of the cylinders, Exhaust propulsion. H. G. Myhr. 2,609,657, Sept. 9.
Engine starter drive. Y. Sekella. 2,609,696, Sept. 9.
Engine starter gearing. J. E. Buxton. 2,609,694–5, Sept. 9.
Ester composition. H. S. Trigg, H. D. Norris and R. V. White. 2,610,205, Sept. 9.
Esters of acylated hydrocarboxylic acids. C. H. Fisher and M. L. Fein. 2,610,196, Sept. 9.
Esters of polymers of maleic anhydride and beta-mercaptoethanol and process. M. Kosmin and J. M. Butler. 2,610,202, Sept. 9.
Ethyl oxyethyl cellulose derivatives and preparation of the same. E. D. Klug. 2,610,180, Sept. 9.
Exact placing of printing plates, made of rubber or similar material, on printing cylinders or flat printing plate supports. M. Kreglewski. 2,609,749, Sept. 9.
Exhaust damper. A. G. Enander. 2,609,857, Sept. 9.
Exhaust nozzle tip for locomotives. C. W. Baker. 2,609,986, Sept. 9.
Expanded metal gratings, Making. F. A. Gruetjen. 2,609,781, Sept. 9.
Extractive distillation process. W. M. Drout, Jr. 2,610,141, Sept. 9.
Fabric-reinforced bowling pin. W. L. Hunt. 2,610,057, Sept. 9.
Fading compensation radio signaling system. D. S. Bond and L. E. Thomson. 2,610,292, Sept. 9.
Fastener: *See*—
High shear blind fastener.
Fastener, Making headed. H. F. Phipard, Jr. 2,609,550, Sept. 9.
Fastening device. D. Mackey and A. G. Lazzery. 2,610,012, Sept. 9.
Faucet. E. Fauchenx. 2,610,063, Sept. 9.
Faucet, Automatic. H. W. Beall. 2,610,019, Sept. 9.
Feeder: *See*—
Bromine water feeder.
Feeding mechanism with gripping device. L. N. Brager and F. F. Borkmann. 2,609,946, Sept. 9.
Feeding, positioning, and orienting mechanism. M. J. Kofoid. 2,609,942, Sept. 9.
Fifth wheel side release locking mechanism. H. Ketel. 2,610,069, Sept. 9.
Filament storing and advancing reel. H. A. Kuljian. 2,609,587, Sept. 9.
Filling-body for surgical use. J. H. Bing. 2,609,545, Sept. 9.
Filter. M. Ross. 2,609,933, Sept. 9.
Filtering. C. A. Rodman and N. L. Tewksbury. 2,609,931, Sept. 9.
Finely crystalline aluminum oxide, Producing. B. Eliasson. 2,610,110, Sept. 9.
Fire alarm. C. H. Fink. 2,609,785, Sept. 9.
Fire alarm, Protective. N. O. Turner. 2,609,786, Sept. 9.
Fish lure, Plug-type. L. A. Cracker. 2,609,633, Sept. 9.
Fishing reel. O. B. Surber. 2,610,002, Sept. 9.
Flow control. W. W. Walton and R. C. Bowers. 2,610,300, Sept. 9.
Flowmeter, Pressure. W. D. Macgeorge. 2,609,831, Sept. 9.
Fluid pressure regulator. M. J. Smith. 2,609,832, Sept. 9.
Fluid purifying device. G. C. Fricke. 2,609,932, Sept. 9.
Flush tank inlet valve. H. F. Smith. 2,609,830, Sept. 9.
Foam breaker for submerged culture fermentor. H. Humfeld, E. Aeschlimann and J. R. Hoffman. 2,610,155, Sept. 9.
Folder, Carbon paper. G. R. Steele. 2,609,924, Sept. 9.
Forming a composite structure comprising a chrome-containing member. F. H. Mason. 2,609,598, Sept. 9.
Forming a multipart plastic article. E. L. Danielson and F. J. Dofsen. 2,609,570, Sept. 9.
Forming fibers, Method and apparatus for. G. Slayter and C. J. Stalego. 2,609,566, Sept. 9.
Forming laminated pressure vessels. D. B. Rossheim. 2,609,595, Sept. 9.
Forming lined container closures. D. L. Shanklin and R. C. Adams. 2,610,131, Sept. 9.
Frame: *See*—
Game racket frame.
Freight car end construction. K. F. Nystrom. 2,609,762, Sept. 9.
Friction clutch. L. D. Stripling. 2,609,902, Sept. 9.
Fruit orientation machine. W. A. Doering and W. E. Koenig. 2,609,913, Sept. 9.
Fuel metering jet adjustment. E. O. Wirth and F. Barfod. 2,610,024, Sept. 9.
Fuel supply control for gas turbines. F. H. Carey. 2,609,868, Sept. 9.
Function recorder. L. G. Gitzendanner and D. F. Langenwalter. 2,610,102, Sept. 9.
Furnace: *See*—
Electric enamel furnace.
Induction metal melting furnace.
Furnace for heating fluids. E. R. Kilsby. 2,609,814, Sept. 9.
Fuse functioning mechanism. H. L. Rosenberg. 2,609,753, Sept. 9.
Game, Parlor bowling. C. H. Goodyear. 2,610,055, Sept. 9.

Game, Pin ball. J. C. Koci. 2,610,059, Sept. 9.
Game racket frame. C. A. Lovell. 2,610,056, Sept. 9.
Garbage can cover holder or handle. E. H. Feierabend. 2,610,015, Sept. 9.
Garment bagging machine with cutting mechanism for tubular material. J. J. Denton. 2,609,983, Sept. 9.
Gas burner. R. C. Wright. 2,609,866, Sept. 9.
Gas burner and valve operator, Laboratory. L. Riebman and S. Lambert. 2,609,870, Sept. 9.
Gas burner with vertically spaced ports and interior baffle. I. V. Brumbaugh. 2,609,871, Sept. 9.
Gas hammer. S. B. Maurer and H. P. Ebert. 2,609,813, Sept. 9.
Gasket for pipe joints. R. E. Risley and A. J. Whitehill. 2,610,078, Sept. 9.
Gas turbine power plant having fuel cut-off valve actuated by an overspeed governor. D. M. Poole. 2,609,656, Sept. 9.
Gauge: *See*—
Adjustable liquid gauge. Aligned thread gauge.
Gauge for checking parts of cylindrical articles. E. C. Moss. 2,609,609, Sept. 9.
Gauge for lighters, Fluid content. E. L. Ahlgren. 2,609,692, Sept. 9.
Gauge for roll crowns. J. A. Elmes. 2,609,610, Sept. 9.
Gear case and propeller shaft bearing for outboard motors. E. C. Kiekhaefer. 2,609,783, Sept. 9.
Generator: *See*—
Marker signal generator.
Glove or mitten, Hunter's. A. L. Farrell. 2,609,543, Sept. 9.
Goggles. H. A. Jackson. 2,609,538, Sept. 9.
Golf cart seat. R. B. Head. 2,610,072, Sept. 9.
Governor switch mechanism. W. Van Gulder. 2,610,269, Sept. 9.
Grade striker. A. W. Gardner and P. Wrockoff. 2,609,620, Sept. 9.
Grain and weed reclaiming accessory. A. King. 2,609,929, Sept. 9.
Gunsight having lead computing device. C. S. Draper and E. P. Bentley. 2,609,606, Sept. 9.
Gyroscopic slaving apparatus. W. A. Stone. 2,609,693, Sept. 9.
Hair curling device. T. C. McCormack and C. G. Clark. 2,609,822, Sept. 9.
Hair grooming device. B. Weissberger. 2,609,821, Sept. 9.
Hairpin. A. V. Richetti. 2,609,825, Sept. 9.
Hair-restraining appliance. M. D. Neff. 2,609,823–4, Sept. 9.
Hair spring and balance wheel timing mechanism. F. J. Caldwell. 2,609,680, Sept. 9.
Halo-hydroxy-naphthoyl-alkanoic acids and the production thereof. R. R. Burtner and J. M. Brown. 2,610,210, Sept. 9.
Hammer mill feed delivery chute, including dust guard. A. J. Layberger. 2,609,996, Sept. 9.
Handle: *See*—
Auxiliary adjustable pot handle. Baggage handle. Door handle.
Handle and operating lever assembly for flushing tanks. D. E. Gulick. 2,609,546, Sept. 9.
Handle for screw drivers and similar tools. J. M. Hadfield. 2,609,851, Sept. 9.
Hanger: *See*—
All-purpose garment hanger.
Harvester, Cane. R. L. Larson. 2,609,648, Sept. 9.
Heat exchange screw conveyer. C. A. Rietz. 2,610,033, Sept. 9.
Heat exchanger. J. Blizard. 2,609,797, Sept. 9.
Heater for wort kettles. W. Heller. 2,610,036, Sept. 9.
Heater with means for preventing entrainment of fuel oil with the circulating medium, Fuel oil. H. F. and R. W. Yula. 2,610,267, Sept. 9.
Heater with tumbling feature, Suspendible brooder. W. Rusnak and W. G. Stoll. 2,610,285, Sept. 9.
Heating apparatus, Dielectric. J. M. Cage. 2,610,288, Sept. 9.
Helically preformed elements on stranded line. T. F. Peterson. 2,609,653, Sept. 9.
Herbicide and defoliant. L. D. Goodhue and C. E. Tissol. 2,610,116, Sept. 9.
High shear blind fastener. K. I. Stubbs. 2,609,723, Sept. 9.
Holder: *See*—
Cigar and cigarette holder. Jaw holder. Lathe tool holder. Milk bottle holder. Tap holder.
Holder for bottles or the like, Dispensing. E. F. Bushman. 2,610,081, Sept. 9.
Holder for lady's make-up articles. S. S. Andary. 2,609,578, Sept. 9.
Holder for press type cameras, Roll film. L. G. Tatro. 2,609,739, Sept. 9.
Hollow shapes, making. M. S. Roush and C. C. Clark. 2,609,576, Sept. 9.
Holster, Pistol. B. A. Spann. 2,609,979, Sept. 9.
Hopper for selectively dispensing tube bases. W. T. Engel. 2,609,912, Sept. 9.
Horn blowing apparatus for motor vehicles. F. M. Stella. 2,610,235, Sept. 9.
Hose reel and combined handle and support therefor. R. D. Bond and G. J. Hungerford. 2,610,003, Sept. 9.
Hospital chair. M. L. Pratt. 2,609,862, Sept. 9.
Hot fudge dispenser. G. B. Henry. 2,609,966, Sept. 9.
Humidifier, Self-cleaning. A. H. Bahnson, Jr. 2,610,045, Sept. 9.
Humidity selector switch. L. B. Butterfield. 2,610,275, Sept. 9.
Humidity sensitive device. S. Larach. 2,609,688, Sept. 9.
Hydraulic adjusting mechanism for harvesting machines. C. H. Watson. 2,609,649, Sept. 9.
Hydraulic die. R. J. Gaudreau. 2,609,775, Sept. 9.
Hydraulic jack. J. J. Mueller. 2,610,025, Sept. 9.
Hydraulic rotary drill. J. A. Bradley. 2,610,031, Sept. 9.
Hydraulically controlled apron and ejector assembly for earth working scrapers. D. E. Murray. 2,609,622, Sept. 9.
Hydrocarbon thiophosphoric acid salts of thialdine and certain homologues. J. P. McDermott. 2,610,182, Sept. 9.
Hydrodynamic transmission. J. Jandasek. 2,609,706, Sept. 9.
Hydroxy sulfolenes, Producing. J. E. Mahan and S. C. Fauske. 2,610,192, Sept. 9.
Hyperfrequency electron tube. E. Touraton and R. Zwobada. 2,610,308, Sept. 9.
Ignition apparatus. J. T. Fitzsimmons. 2,610,264, Sept. 9.
Impact pulverizing mill, including both cooling and vacuum means. R. Planiol. 2,609,993, Sept. 9.
Impulse counting relay and system therefor. T. P. Farkas. 2,610,242, Sept. 9.
Indexing system. R. A. Bratton. 2,610,062, Sept. 9.
Indicating vent plug for electric storage batteries. C. L. Keller. 2,610,221, Sept. 9.
Indicator for automotive vehicles, Grade. W. B. Mueller. 2,609,616, Sept. 9.
Induction metal melting furnace. K. A. Lang. 2,610,218, Sept. 9.
Industrial wool from solid stock, Manufacture of. W. E. Shotton. 2,609,850, Sept. 9.
Inhaler. A. Falcone. 2,609,817, Sept. 9.
Instrument, Aircraft. J. H. Andresen, Jr. 2,609,685, Sept. 9.
Instrument, Gyroscopic. P. F. Shivers. 2,609,615, Sept. 9.
Integrator and hysteresis loop tracer. D. E. Wiegand. 2,610,230, Sept. 9.
Intermittently revolvable table laundry press. R. P. Gudgeon. 2,609,624, Sept. 9.
Iron: *See*—
Soldering iron.
Iron for dry and steam ironing, Thermostatically controlled electric. A. Bate. 2,609,625, Sept. 9.
Ironing board and cabinet therefor, Folding. J. J. Toth. 2,609,628, Sept. 9.
Ironing stand. J. H. W. Lewis. 2,609,626, Sept. 9.
Jack: *See*—
Hydraulic jack.
Jaw holder. J. H. Kindelberger. 2,609,860, Sept. 9.
Jet engine igniter plug. W. A. Bychinsky. 2,609,808, Sept. 9.
Jigging apparatus for industrial nailing machines. R. H. Heard. 2,609,536, Sept. 9.
Joint: *See*—
Universal joint.
Joint structure for wire display racks. H. J. Rubenstein. 2,609,937, Sept. 9.
Kerf-cutting machine. F. A. Lindgren. 2,610,048, Sept. 9.
Key assembly for musical instruments. E. J. Ens. 2,609,721, Sept. 9.
Keyboard operated translating circuit. W. H. Burkhart and H. M. Fleming, Jr. 2,610,243, Sept. 9.
Knitting. L. Picard. 2,609,677, Sept. 9.
Label guiding attachment for typewriters. G. W. Martin. 2,609,909, Sept. 9.
Latch device, Electromagnetically controlled. W. S. Anderson, Jr. 2,609,704, Sept. 9.
Latch for hopper car doors. G. B. Dorey. 2,609,759, Sept. 9.
Lathe tool holder. C. M. Rhodin. 2,609,593, Sept. 9.
Lather machine. G. C. and A. O. Johnson. 2,610,090, Sept. 9.
Lead straightening machine. W. T. Engel. 2,609,858, Sept. 9.
Leg support for wheel chairs. C. C. Gates, Jr. 2,609,864, Sept. 9.
Leveler bar and reciprocable frame. P. H. Lavely. 2,609,949, Sept. 9.
Linings for pocketbooks, Interchangeable. M. Rosen. 2,609,854, Sept. 9.
Liquid-gas contact apparatus. W. J. Beringer. 2,609,888, Sept. 9.
Liquid-liquid extraction tower. J. W. Packie. 2,610,108, Sept. 9.
Load-limit apparatus for hydraulic engine governors. J. S. Dale. 2,610,050, Sept. 9.
Loading and unloading apparatus. H. Sahlin. 2,609,776, Sept. 9.
Loading machine. A. L. Lee. 2,609,910, Sept. 9.
Lock: *See*—
Safe lock.
Locomotive exhaust deflector. B. O. Buckland and A. H. Morey. 2,609,766, Sept. 9.

Loom. A. J. Murphy. 2,609,840, Sept. 9.
Lowerable A-frame. T. O. Davidson and B. L. Lonngren. 2,609,939, Sept. 9.
Lubricating apparatus. O. R. Haas. 2,609,891, Sept. 9.
Lubricating means for bearing assemblies. V. M. Shelden and D. E. Wells. 2,610,097, Sept. 9.
Luminescent zinc sulfide phosphors and preparing same. J. R. C. Brown, Jr. 2,610,154, Sept. 9.
Machine cycle control system. P. Cohen. 2,609,553, Sept. 9.
Machine for cleaning receptacles. H. M. Kendall. 2,609,916, Sept. 9.
Machine for cutting mock chicken legs. J. A. Grimm. 2,609,564, Sept. 9.
Machine for folding paper box blanks on a stack thereof. H. E. Montgomery. 2,609,736, Sept. 9.
Machine for gathering, turning, and windrowing hay or the like. H. K. Cymara. 2,609,651, Sept. 9.
Machine for making up parcels and packages. H. Total. 2,609,646, Sept. 9.
Machine for packing buns and the like in cartons. C. F. and C. C. Johnsen. 2,609,645, Sept. 9.
Machine for shaping uppers over lasts. T. A. Kestell. 2,609,552, Sept. 9.
Machine for valving bag blanks. G. Bardet. 2,609,734, Sept. 9.
Machine movable in all directions for driving piles and the like. A. P. Jourdain. 2,609,667, Sept. 9.
Machine press. R. M. Cook. 2,609,745, Sept. 9.
Magazine loader for air guns. A. Lawrence. 2,609,811, Sept. 9.
Magnetic change-over valve. W. R. Eddy. 2,609,669, Sept. 9.
Magnetic record volume control. J. T. Wissmann. 2,610,257, Sept. 9.
Magnetron tube for the transmission of ultrashort waves. H. Gutton. 2,610,309, Sept. 9.
Making ventilated fruit cushions, Apparatus and method of. B. M. Hoblick. 2,610,134, Sept. 9.
Malleableizing machine. W. M. Kordsiemon. 2,610,135, Sept. 9.
Manufacturing a filament unit. H. Bender and W. B. Voorhis. 2,609,590, Sept. 9.
Marine seismometer spread. N. Pottorf. 2,610,240, Sept. 9.
Marker signal generator. G. F. Devine. 2,610,228, Sept. 9.
Mattress. P. C. Doane. 2,609,548, Sept. 9.
Measuring effective resistance, Method and apparatus for. J. S. Bell. 2,610,227, Sept. 9.
Mechanism for coating interior of hollow articles. C. A. Wulf. 2,609,788, Sept. 9.
Method of and system for obtaining a standard low-frequency. W. D. Hershberger. 2,609,654, Sept. 9.
Methyl lactate, Manufacture of. H. C. Highet and F. E. Salt. 2,610,206, Sept. 9.
Micrometer. W. Rinker, O. Sanger, and E. Leitz, Jr. 2,609,607, Sept. 9.
Microphone mount. M. Rettinger. 2,610,018, Sept. 9.
Military campaign game board and pieces. W. W. Powell. 2,610,060, Sept. 9.
Milk bottle holder. E. M. Navarro. 2,609,987, Sept. 9.
Milk cooler. O. H. Wennlund. 2,610,035, Sept. 9.
Milk cooling attachment for milking machines. E. E. Lundvall, R. W. Becker, and C. Eckstein. 2,610,034, Sept. 9.
Mill: *See*—
Centrifugal mill.
Miniature phone plug. G. O. Puerner. 2,610:223, Sept. 9.
Mixed modulation in pulse intercommunication systems. E. M. Deloraine and A. H. Reeves. 2,610,254, Sept. 9.
Mixer: *See*—
Paint mixer.
Modified drying oils. O. L. Polly. 2,610,161, Sept. 9.
Moisture control of solidified fuel. K. A. Fischer and O. F. Hecht. 2,610,113, Sept. 9.
Molding magnesia insulation material. R. W. Honnig. 2,609,733, Sept. 9.
Motor generator circuit. J. K. McKendry and R. L. Garman. 2,610,315, Sept. 9.
Motor speed and circuit governing electrical system. S. P. Morse. 2,610,314, Sept. 9.
Mounting: *See*—
Prefocused headlamp bulb mounting. Telephone light mounting.
Muff, Ear. E. Berg. 2,609,544, Sept. 9.
Muffler with concave baffles. C. H. Harmon. 2,609,886, Sept. 9.
Multiple stage processing reel. A. W. Eidman. 2,609,589, Sept. 9.
Multiple stage thread processing reel. L. A. Corey. 2,609,588, Sept. 9.
Multiple zone testing. E. P. Halliburton. 2,609,878, Sept. 9.
Nail cutting machine. R. W. Bradley. 2,609,554, Sept. 9.
Necktie rack. C. Kruger. 2,609,934–5, Sept. 9.
Needle threader, Sewing machine. F. Vogel. 2,609,771, Sept. 9.
Neutralization of high gain amplifiers. G. D. Wofford. 2,610,261, Sept. 9.
Noncorrosive oil compositions. J. H. Putman, J. Scott, and D. W. Ervine. 2,610,151, Sept. 9.
Nonnuclearly sulfonated phenol-formaldehyde resin in beaded form, Preparation of. A. S. Nyquist. 2,610,171, Sept. 9.
Nonyl phthalates. J. T. Rutherford. 2,610,201, Sept. 9.
Nozzle, Spray discharge. W. B. Thompson. 2,610,092, Sept. 9.
Object-glass with a variable focal length. F. Laurent. 2,609,727, Sept. 9.
Oil removal apparatus. W. G. Millar. 2,609,890, Sept. 9.
Olive stuffing machine. L. H. Smith. 2,609,853, Sept. 9.
One-way clutch. C. E. Swenson and A. Y. Dodge. 2,609,904, Sept. 9.
Opener, Can. W. D. Husted. 2,609,601, Sept. 9.
Opener, Can. D. M. Wilson. 2,609,599, Sept. 9.
Opener, Container. W. D. Husted. 2,609,600, Sept. 9.
Opening and pouring attachment for cans. V. A. Ream. 2,609,968, Sept. 9.
Operating mechanism for vibrating tables. R. Emmons. 2,610,040, Sept. 9.
Organic phosphorous compounds. W. T. Dye, Jr. 2,610,139, Sept. 9.
Organosilyl acyl halides. L. H. Sommer. 2,610,199, Sept. 9.
Organosilyl amides. L. H. Sommer. 2,610,198, Sept. 9.
Oscillator, Stabilized saw tooth. T. V. Zaloudek. 2,610,298, Sept. 9.
Oven construction, Infrared. W. Wilson. 2,610,280, Sept. 9.
Overload release coupling for electrically driven earth augers. L. C. Groat. 2,609,674, Sept. 9.
Package distribution system. R. Couchman, Jr. and W. J. Raab. 2,609,947, Sept. 9.
Packing box and cushioning member therefor, Ventilated. S. B. Stevenson. 2,609,956, Sept. 9.
Paintbrush, Fountain. C. R. Johnson. 2,609,558, Sept. 9.
Paint mixer. F. A. Stahl. 2,610,041, Sept. 9.
Paper indicated dobby. R. G. Turner. 2,609,841, Sept. 9.
Parachute apparatus. P. F. Smith. 2,610,008, Sept. 9.
Parachute pack container and back rest, Adjustable. J. Martin. 2,610,007, Sept. 9.
Pattern control for sewing machines, Automatic. A. and J. Kramer. 2,609,769, Sept. 9.
Pencil coupling. H. Swanson. 2,610,077, Sept. 9.
Pentaenes, Making. J. D. Surmatis. 2,610,208, Sept. 9.
Pentaenes, Manufacture of. H. Lindlar and R. Rüegg. 2,610,207, Sept. 9.
Percolator, Electric. E. Kolisch. 2,610,283–4, Sept. 9.
Permanent type packing means for wells. J. C. Webber. 2,609,879, Sept. 9.
Phonograph adaptor for long playing records. P. C. Goldmark and C. H. Youngquist. 2,610,258, Sept. 9.
Phosphorylation of riboflavin. L. A. Flexser and W. G. Farkas. 2,610,179, Sept. 9.
Photoelectric detector. E. Jellinek. 2,610,232, Sept. 9.
Photographic silver halide emulsions. P. F. De Smet and A. E. van Dormael. 2,610,121, Sept. 9.
Photosensitization of polymeric cinnamic acid esters. L. M. Minsk, W. P. Van Deusen, and E. M. Robertson. 2,610,120, Sept. 9.
Pigmented silicone elastomers. T. A. Te Grotenhuis. 2,610,167, Sept. 9.
Pin: *See*—
Fabric-reinforced bowling pin.
Pin binder. P. H. Dixon. 2,609,580, Sept. 9.
Pin doweled bearing cap. P. V. Osborn. 2,609,710, Sept. 9.
Pipe: *See*—
Well drilling pipe.
Pipe inspecting apparatus. R. K. Cadwell. 2,609,728, Sept. 9.
Pipe scraper, Fluid propelled. A. J. Carver. 2,609,556, Sept. 9.
Piston construction. N. M. Reiners. 2,610,098, Sept. 9.
Pivot end contact for electric disconnecting switches. C. H. Bayer. 2,610,276, Sept. 9.
Pivoted breech block locking mechanism. B. Sahlin and E. E. Jansson. 2,609,731, Sept. 9.
Planetary gearing. C. C. Martin and D. A. Round. 2,609,713, Sept. 9.
Plow. J. A. Love. 2,609,742, Sept. 9.
Plow, Reversible tractor. W. A. Dexheimer, Jr., and H. N. Pullen. 2,609,740, Sept. 9.
Plug: *See*—
Jet engine igniter plug. Wall plug.
Miniature phone plug.
Plug and receptacle. O. S. Greeson. 2,610,266, Sept. 9.
Plural combustion products generator in ring coaxial with turbine. A. C. Staley. 2,609,664, Sept. 9.
Pneumatic lift conduit. W. K. Bergman. 2,610,093, Sept. 9.
Pneumatic welding gun and associated system. H. J. Graham. 2,610,278, Sept. 9.
Polishing device, Floor. E. Anderson. 2,609,555, Sept. 9.
Polyesters stabilized with substituted p-benzoquinones. T. F. Anderson. 2,610,168, Sept. 9.
Polymerization of thermoplastic siloxanes. J. F. Hyde and W. H. Daudt. 2,610,169, Sept. 9.
Poppet valves, Making. F. T. Perkes. 2,610,279, Sept. 9.
Porous composition utilizing N-carboxylic acid anhydrides of amino carboxylic acids. E. W. Gluesenkamp. 2,610,157, Sept. 9.
Portable batter dispenser. R. F. Briggs and R. J. Moore. 2,609,764, Sept. 9.
Portable mortis cutting tool. A. J. Kronquist. 2,609,849, Sept. 9.

Positive disappearing knockout pin mechanism. D. Maniaci. 2,609,777, Sept. 9.
Power factor controlling and regulating device. G. Fowler. 2,610,317, Sept. 9.
Power tool feed device. T. E. Mead. 2,609,714, Sept. 9.
Power transmission. C. A. Neracher and W. T. Dunn. 2,609,900, Sept. 9.
Power transmission in jaw crushers. K. Gauldie. 2,609,994, Sept. 9.
Precipitation of zirconium hydroxide in a readily filterable form. H. H. Friedel. 2,610,104, Sept. 9.
Prefocused headlamp bulb mounting. R. K. Braunsdorff. 2,610,290, Sept. 9.
Preheater. N. A. Arvins and A. A. Arvintz. 2,610,037, Sept. 9.
Press: *See*—
Intermittenly revolvable Machine press.
table laundry press.
Press construction. C. A. Rietz. 2,609,744, Sept. 9.
Pressure releasable locking mechanism for fluid pressure pistons. H. E. Rose. 2,609,793, Sept. 9.
Preventing fluid loss through porous walls. O. W. Van Dyke. 2,610,149, Sept. 9.
Printing device, Self-justifying. T. E. Lynch. 2,609,907, Sept. 9.
Printing paste, Silk-screen. F. E. Kerridge and C. S. Couper. 2,610,127–8, Sept. 9.
Processing electrical elements. N. M. Brown, Jr., and C. A. Shank. 2,609,644, Sept. 9.
Producing metal articles with highly finished surfaces for coating. R. A. Whitbeck. 2,609,780, Sept. 9.
Producing vitreous enamelled metal articles. R. A. Whitbeck. 2,609,594, Sept. 9.
Production and refining of organic acids. O. D. Cunningham. 2,610,197, Sept. 9.
Projector, Multislide automatic turntable. F. J. Perillo. 2,609,726, Sept. 9.
Propulsive means for vertical rising aircraft. N. C. Price. 2,610,005, Sept. 9.
Protective arrangement for single phase motors. W. J. and H. E. Turnupseed. 2,610,313, Sept. 9.
Protector for paint brushes, Paperboard. W. A. Ringler. 2,609,920, Sept. 9.
Protractor, Sine. R. A. Mull. 2,609,612, Sept. 9.
Puller: *See*—
Twin bushing puller.
Pulse code modulation communication system. R. L. Carbrey. 2,610,295, Sept. 9.
Pump: *See*—
Reciprocating pump.
Pump and motor. C. S. and R. S. Prendergast, G. W. B. Dixey, and H. Gordon. 2,609,754, Sept. 9.
Pump arrangement for water cooled engines, Auxiliary. G. Pielatick. 2,609,800, Sept. 9.
Pump control for internal-combustion engines, Electric fuel. L. C. Parker. 2,609,809, Sept. 9.
Pumping volatile liquids, Method and apparatus for. T. N. Dalton. 2,609,668, Sept. 9.
Pusher machine with articulated pusher bar. P. H. Lavely. 2,609,948, Sept. 9.
Quick-cooking rice, Production of. R. L. Roberts. 2,610,124, Sept. 9.
Rack: *See*—
Necktie rack.
Radiation intensity metering system. S. M. Christian. 2,610,302, Sept. 9.
Radio echo apparatus. R. M. Page. 2,610,319, Sept. 9.
Radio frequency coupling circuit. J. D. Reid. 2,610,248, Sept. 9.
Rag rug making device. J. Woroneski. 2,609,676, Sept. 9.
Rail car bearing and oiler. B. I. Browning. 2,610,095, Sept. 9.
Railroad track skeletonizing machine. H. C. Jones. 2,609,619, Sept. 9.
Range control, Pressure. O. E. Watson. 2,609,833, Sept. 9.
Razor, Safety. B. R. Nyhagen. 2,609,603, Sept. 9.
Razor with yieldably mounted blade guard, Vibrating safety. R. P. Harshberger. 2,609,602, Sept. 9.
Receptacle: *See*—
Plug and receptacle.
Receptacle. R. A. Lee. 2,609,919, Sept. 9.
Receptacle and wiper. J. F. McCarthy. 2,609,560, Sept. 9.
Recess mounting for valves and fittings for liquefied petroleum gas containers. R. K. Cadwell. 2,609,964, Sept. 9.
Reciprocating pump. E. F. Wright and A. G. Rockwood. 2,609,756, Sept. 9.
Recorder, Interaction. E. D. Chapple. 2,609,618, Sept. 9.
Recovery of unsaponifiables from concentrates containing the same. A. I. Gebhart. 2,610,195, Sept. 9.
Rectifying apparatus. S. C. Collins. 2,610,046, Sept. 9.
Reel: *See*—
Filament storing and advancing reel.
Fishing reel.
Multiple stage processing reel.
Multiple stage thread processing reel.
Stock reel.
Refrigerant attachment for cartons. G. D. Wheeler and J. H. Reilly. 2,609,670, Sept. 9.
Refrigerating machine, Unitized centrifugal. N. B. Wales. 2,609,672, Sept. 9.
Refrigerator condenser coil assembly. H. G. Dickman. 2,610,039, Sept. 9.
Regulation of alignment of fluid supply with respect to gas turbine blades in accordance with turbine speed. R. M. Nardone. 2,609,661, Sept. 9.
Regulator: *See*—
Fluid pressure regulator.
Regulator for stokers, Air volume. J. A. Wilson and J. H. Hansen. 2,609,834, Sept. 9.
Remote control for power drives. A. A. Schmitz. 2,609,701, Sept. 9.
Resilient support for typewriting machines. R. D. Dodge. 2,610,010, Sept. 9.
Resin-bound fiber structure, Manufacture of. C. C. Heritage. 2,610,138, Sept. 9.
Resonating pulse jet engine. W. L. Tenney and C. B. Marks. 2,609,660, Sept. 9.
Riboflavin monophosphoric acid ester salts and preparation. L. A. Flexser and W. G. Farkas. 2,610,177, Sept. 9.
Riboflavin phosphate intermediates, Preparation of. L. A. Flexser and W. G. Farkas. 2,610,176, Sept. 9.
Riboflavyl phosphates, Producing. L. A. Flexser and W. G. Farkas. 2,610,178, Sept. 9.
Rocker, Bassinet. J. Paulich. 2,609,863, Sept. 9.
Rocket discharger. L. O. Bergström. 2,609,730, Sept. 9.
Roll supporting means. E. E. Burroughs. 2,610,001, Sept. 9.
Roller-track mounting for concrete mixer drums and the like. J. W. Lendved and C. I. Longenecker. 2,610,043, Sept. 9.
Rotary drilling rig. J. B. Picard. 2,610,026, Sept. 9.
Rotary mechanical seal with telescoping parts. P. T. Haake. 2,610,075, Sept. 9.
Rotary operator for casement windows. S. C. Reynaud. 2,610,054, Sept. 9.
Rotary wing blade. E. Daland. 2,609,883, Sept. 9.
Rotatable combustion apparatus for aligning individual flame tubes with access parts or manholes. P. P. Newcomb. 2,609,663, Sept. 9.
Rudder pedal installation. W. C. Boyce. 2,610,006, Sept. 9.
Rural mailbox signal means. R. H. Lawson. 2,609,787, Sept. 9.
Safe lock. F. J. Bremer and G. J. Bauer. 2,609,679, Sept. 9.
Safety device for wallets. S. Rothschild. 2,609,855, Sept. 9.
Safety lock for railway switches. J. W. McGarry. 2,610,291, Sept. 9.
Safety pocket, Bather's. S. Morgenstern. 2,609,980, Sept. 9.
Safety timing switch. A. L. Judson. 2,610,273, Sept. 9.
Salt dispenser. M. D. Vivolo. 2,609,971, Sept. 9.
Sawing apparatus for prostrate logs, Portable. G. O. Schneider. 2,609,848, Sept. 9.
Sawing stone such as marble and the like. B. G. Stålheim. 2,609,812, Sept. 9.
Scale or weighing machine with cursor index weights, Household styled. P. Terraillon. 2,610,051, Sept. 9.
Screen: *See*—
Automobile screen.
Sealing machine, Envelope. W. H. Uhl. 2,609,790, Sept. 9.
Sealing structure. F. Glassford. 2,609,893, Sept. 9.
Seat: *See*—
Golf cart seat.
Securing liners to firearm barrels. J. C. Garand. 2,609,631, Sept. 9.
Seismic-wave generation. D. Silverman. 2,609,885, Sept. 9.
Self-balancing, self-standardizing measuring system. W. E. Phillips and E. J. Cranch. 2,610,311, Sept. 9.
Self-loading and self-dumping vehicle. J. W. Daniels. 2,609,951, Sept. 9.
Self-powering fluid brake. W. P. Kessel and J. F. Shafer. 2,609,894, Sept. 9.
Sensitive door edge device. W. Hamilton. 2,610,268, Sept. 9.
Separation of partly dried gel particles. P. B. Weisz. 2,609,925, Sept. 9.
Series of nitrofuran compounds comprising the azomethines of 5-nitro-2-acyl furans with 1-amino-hydantoins. K. J. Hayes. 2,610,181, Sept. 9.
Servomotor apparatus. P. A. Seay. 2,610,312, Sept. 9.
Sewing machine. R. Casas-Robert. 2,609,772, Sept. 9.
Sewing machine. N. V. Christensen. 2,609,770, Sept. 9.
Sheave, Noiseless. A. M. Rohn. 2,609,699, Sept. 9.
Sheet controlled tripping mechanism for rotary printing presses. W. E. Brigham, Jr. 2,609,748, Sept. 9.
Sheet metal bushings, Making. E. B. Clark. 2,609,596, Sept. 9.
Shirt. M. L. Kaplan. 2,609,541, Sept. 9.
Shirt, Zipper. M. L. Kaplan. 2,609,542, Sept. 9.
Shock absorber, Friction. K. Williams. 2,610,053, Sept. 9.
Shoemaking apparatus, Inductively heated. W. S. Robson. 2,610,287, Sept. 9.
Shutter for motion-picture projectors. W. R. Isom. 2,609,724, Sept. 9.
Shutter, Variable light interrupting. W. R. Isom and D. R. Andrews. 2,609,725, Sept. 9.
Signal: *See*—
Dictating machine signal.
Signal gain control circuits. L. Moffett. 2,610,260, Sept. 9.

Signal responsive receiver. G. D. Hanchett, Jr. 2,610,293, Sept. 9.
Signal voltage regulator for power line high-frequency transmitters. R. N. Eichorn. 2,610,241, Sept. 9.
Silver halide developer containing 2 (β-hydroxyethyl) aminophenol and p-hydroxyphenylamino acetic acid. D. H. O. John and G. T. J. Field. 2,610,122, Sept. 9.
Silverware container. M. I. Naken. 2,609,921, Sept. 9.
Simultaneously purifying and dehydrating caustic alkali solutions containing chlorates. D. J. Pye. 2,610,105, Sept. 9.
Sintered iron bodies and processes therefor. J. E. Drapeau, Jr., J. H. Smith and R. J. Halsted. 2,610,118, Sept. 9.
Ski binding. J. M. Harby, Jr. 2,610,067, Sept. 9.
Ski binding. L. A. Majneri. 2,610,068, Sept. 9.
Skillet cover. L. S. Irwin. 2,609,960, Sept. 9.
Skin cleaning composition. L. L. McKinney and J. C. Cowan. 2,610,153, Sept. 9.
Sleeping car. W. E. Burnett. 2,609,760, Sept. 9.
Soldering iron. H. A. Bleam, F. Singleman and D. Miller. 2,609,778, Sept. 9.
Solenoid coil support. A. H. Caldwell. 2,610,233, Sept. 9.
Solidification of liquid fuel. K. A. Fischer and O. F. Hecht. 2,610,114, Sept. 9.
Solvent extraction of naphthenic acids. E. M. Honeycutt. 2,610,209, Sept. 9.
Soot removal compositions. J. A. Chenicek. 2,610,112, Sept. 9.
Spark plug cleaning apparatus. R. K. Christie. 2,609,827, Sept. 9.
Speed wrench. F. L. Fulke. 2,609,718, Sept. 9.
Spindle, Double-twist. P. de Halleux. 2,609,652, Sept. 9.
Spindle or anvil attachment for a micrometer. P. M. Zumstein. 2,609,608, Sept. 9.
Spinning apparatus. H. J. McDermott. 2,609,567, Sept. 9.
Split knocker-head jar and safety unit. K. E. Waggener. 2,610,027, Sept. 9.
Spotting board for dry cleaners. F. M. Pilley. 2,609,678, Sept. 9.
Spray gun, Air-pressure operated paint. M. B. Deutsch. 2,610,091, Sept. 9.
Sprayer. G. E. Bullock. 2,609,973, Sept. 9.
Spraying and dusting machine. G. W. Daugherty. 2,609,635, Sept. 9.
Spraying apparatus. G. E. Randell. 2,610,088, Sept. 9.
Spring closure for collapsible tubes. F. A. Senger. 2,609,975, Sept. 9.
Spring structure. A. J. Horton and W. D. Gaston. 2,609,865, Sept. 9.
Spring type clutch. W. F. Scott. 2,609,906, Sept. 9.
Sprinkler rotating spinner drive. H. F. Unger. 2,610,089, Sept. 9.
Stabilization of latex and stabilized compositions. A. M. Hall. 2,610,158, Sept. 9.
Stabilizer and compensator for vehicles on curved roads. M. de Montalvo y Garcia-Camba. 2,609,884, Sept. 9.
Stabilizer for four-wheeled vehicles. C. Lilly, Sr. 2,610,073, Sept. 9.
Stabilizing latex and stabilized latex compositions. A. M. Hall. 2,610,216, Sept. 9.
Stand: *See*—
  Ironing stand.
Stand and tray, Bedside. M. N. Wells. 2,609,938, Sept. 9.
Starch conversion process. W. B. Newkirk and J. E. Dlouhy. 2,610,132, Sept. 9.
Starting system for internal-combustion turbine power plants. N. C. Price. 2,609,659 Sept. 9.
Steam economizing system. P. Spence. 2,609,990, Sept. 9.
Step-up mechanism. W. Patzer. 2,609,698, Sept. 9.
Stock reel. W. B. Retz. 2,609,591, Sept. 9.
Stop-motion for pile-weaving machines. B. Kahn. 2,609,847, Sept. 9.
Storage battery electrode. J. B. Brennan. 2,610,220, Sept. 9.
Street lighting system, Fluorescent. A. M. Miles. 2,610,310, Sept. 9.
Stressing concrete, Method and apparatus for. R. M. Parry. 2,609,586, Sept. 9.
Sun visor. E. G. Zeeb. 2,610,085, Sept. 9.
Support: *See*—
  Solenoid coil support.
Support. R. D. Ananson. 2,610,014, Sept. 9.
Supporting and turning slip for pipe. W. E. Barber and G. H. Allen. 2,609,583, Sept. 9.
Swather. A. T. Lindquist. 2,609,650, Sept. 9.
Switch: *See*—
  Ball game switch.
  Electric switch.
  Electric power indicating switch.
  Humidity selector switch.
  Safety timing switch.
Switch actuating mechanism. W. J. Kelleigh. 2,610,274, Sept. 9.
Synchronous electric current switching apparatus. E. Wettstein. 2,610,231, Sept. 9.
Synthesis of amino acids. D. E. Floyd. 2,610,212, Sept. 9.
Synthesis of hydrocarbons. A. Clark. 2,610,200, Sept. 9.
Synthesis of 1,5-ketoaldehydes. O. A. Moe and D. T. Warner. 2,610,204, Sept. 9.
Synthetic compositions utilizing horn meal or neat's-foot meal, Production of. R. Květoň. 2,610,159, Sept. 9.
Synthetic rutile and making. W. G. Eversole and W. Drost. 2,610,129, Sept. 9.
System and apparatus for sterilizing containers and filling them with a sterilized beverage. F. J. T. Barnes. 2,609,984, Sept. 9.
System of radio echo detection. W. M. Hall. 2,610,320, Sept. 9.
Table top, Rotating and reciprocating. G. G. McNamara, Jr. 2,610,099, Sept. 9.
Table with adjustable height provision, Pivoted-leg. G. A. Delf and R. E. Kortum. 2,609,627, Sept. 9.
Tackle retriever. H. Davis. 2,609,632, Sept. 9.
Take-out mechanism. S. E. Winder. 2,609,943, Sept. 9.
Tap holder. J. D. Marcellus. 2,609,551, Sept. 9.
Tape dispenser. C. A. Hanington. 2,609,877, Sept. 9.
Tape dispenser. F. Vierson. 2,610,000, Sept. 9.
Target type combustion chamber having a closed end portion receiving conical fuel and oxidizer sprays. R. H. Goddard. 2,609,658, Sept. 9.
Telephone light mounting. O. A. Cunningham. 2,610,262.
Teleprinter receiver device. H. Wilsteney. 2,610,247, Sept. 9.
Tension control system. A. W. Sear. 2,609,998, Sept. 9.
Tetra (carboxy phenyl) thiophene and making same. W. G. Toland, Jr. 2,610,191, Sept. 9.
Thermal-magnetic relay. J. D. Russell. 2,610,271, Sept. 9.
Thermal respirator. N. E. Phillips. 2,610,038, Sept. 9.
Thermometer, Oven. F. M. Osborne and E. Oblinger. 2,609,690, Sept. 9.
Thermometer, Underwater sampling. C. G. Harris. 2,609,689, Sept. 9.
Thermostatic safety control for burners. A. Clarkson. 2,609,867, Sept. 9.
Thianaphthylmercaptothiazoles. W. S. Emerson and T. M. Patrick, Jr. 2,610,189, Sept. 9.
Thimble, Ventilated sewing. F. E. Harden. 2,609,978, Sept. 9.
Thin-walled tubing for use as electrode structures of electron discharge devices. L. P. Garner and W. H. Parker. 2,610,304, Sept. 9.
Thread handling mechanism for sewing machines. G. W. Nelson. 2,609,773, Sept. 9.
Thread holder for weft replenishing looms, Pneumatic. G. C. Beatrice. 2,609,846, Sept. 9.
3-substituted derivatives of 2,3-dihydrothianaphthene-1-dioxide. W. H. McKellin and F. G. Bordwell. 2,610,183, Sept. 9.
Ticket printing and issuing machine. R. H. Helsel. 2,609,746, Sept. 9.
Tire alarm, Underinflation dual. C. L. Kite. 2,609,784, Sept. 9.
Tool: *See*—
  Combination tool.
  Portable mortis cutting tool.
Torch for heating watermelon hills. A. Hallum. 2,609,641, Sept. 9.
Tow bar. C. A. Klein. 2,610,070, Sept. 9.
Toy, Muffle-type. S. Newell and L. Fay. 2,609,640, Sept. 9.
Toy, Pounding. J. W. Spence. 2,609,637, Sept. 9.
Traffic signal and street light control system. J. O'D. Shepherd. 2,610,239, Sept. 9.
Trailer, Dump. G. R. Fields and S. S. Bumpus. 2,610,087, Sept. 9.
Trailer loader. A. G. Schramm. 2,609,953, Sept. 9.
Transmission. R. T. Burnett. 2,609,708, Sept. 9.
Transmission. J. P. Rogers. 2,609,702, Sept. 9.
Transmission-differential assembly. W. Hesch, Sr. 2,609,703, Sept. 9.
Transmission gearing for power plants. F. C. I. Marchant. 2,609,707, Sept. 9.
Transplanting machine. A. G. and E. T. J. Tapp. 2,609,767, Sept. 9.
Transport lift. F. F. Sutherland and A. B. Storey. 2,609,954, Sept. 9.
Treatment of equipment. H. L. Parry and D. C. Waldman. 2,610,166, Sept. 9.
Truck, Hand. T. B. Chambers, Jr. 2,609,950, Sept. 9.
Truck, Railway. M. P. Blomberg. 2,609,737, Sept. 9.
Truss. L. P. Mack and R. A. Winters. 2,609,815, Sept. 9.
Truss, Surgical. J. D. Meyer. 2,609,816, Sept. 9.
Tube: *See*—
  Hyperfrequency electron tube.
  Velocity modulation tube.
Tunable cavity resonator electron discharge device. W. W. Hansen and R. H. and S. F. Varian. 2,610,307, Sept. 9.
Twin bushing puller. M. Claps. 2,609,597, Sept. 9.
2-amino-4-dialkylaminoethoxypyrimidines. W. Oroshnik. 2,610,184, Sept. 9.
2-amino-4-dialkylaminopropoxypyrimidines. W. Oroshnik. 2,610,185, Sept. 9.
2-amino-4-dialkylaminoethoxypyrimidines. W. Oroshnik. 2,610,186, Sept. 9.
2-amino-4-dialkylaminoethoxy-6-methylpyrimidines. W. Oroshnik. 2,610,187, Sept. 9.
2-amino-4-dialkylaminopropoxypyrimidines. W. Oroshnik. 2,610,188, Sept. 9.
Two-shuttle pick and pick shuttle changing loom. R. G. Turner. 2,609,845, Sept. 9.
Two-speed gearing for bicycles. E. E. Hood. 2,609,712, Sept. 9.

Two-stroke cycle internal-combustion engine. A. Schnürle and O. Elwert. 2,609,802, Sept. 9.
Underwater exhaust and drive shaft housing for outboard motors. E. C. Kiekhaefer. 2,609,782, Sept. 9.
Universal joint. J. P. Butterfield. 2,609,673, Sept. 9.
Use of nonionic surface active agent in preparation of anionic resin in bead form. L. A. Lundberg. 2,610,156, Sept. 9.
Use of petroleum sulfonates in preparation of resinous condensation products in bead form. L. A. Lundberg. 2,610,170, Sept. 9.
Vacuum grip rail anchor. H. T. Jones. 2,609,991, Sept. 9.
Vacuum tube keying circuit. J. C. Seddon. 2,610,294, Sept. 9.
Valve: *See*—
  Adjustable magnetic pressure valve.
  Disposable plastic valve.
  Flush tank inlet valve.
  Magnetic changeover valve.
Valve construction. T. R. Smith. 2,610,021, Sept. 9.
Valve control, Gas. A. J. Burklin. 2,609,989, Sept. 9.
Valve for fluid circuits, Emergency by-pass. R. H. Davies. 2,609,829, Sept. 9.
Valve for hydraulic presses, Piston type control. J. M. and F. H. Towler. 2,609,794, Sept. 9.
Valve for percussive tools, Distributing. M. O'Farrell. 2,609,792, Sept. 9.
Valve mechanism for expansible chamber fluid motors with piston actuated distributing valve, Stopping control. E. E. Sivacek. 2,609,796, Sept. 9.
Valve rotating device. R. T. Doughty. 2,609,803–4, Sept. 9.
Valve structure. F. W. Whitlock. 2,610,023, Sept. 9.
Valve with free position, Control. A. A. Meddock. 2,610,022, Sept. 9.
Variable speed mechanism. F. Montemarani. 2,609,700, Sept. 9.
Vat dyestuffs. W. Jenny and W. Kern. 2,610,194, Sept. 9.
Vehicle: *See*—
  Self-loading and self-dumping vehicle.
Vehicle door closing device. F. A. Anderson. 2,610,084, Sept. 9.
Vehicle door with spare tire compartment. K. T. Keller. 2,610,083, Sept. 9.
Vehicle unloading unit. A. P. Balzer and J. A. Stoesz. 2,609,952, Sept. 9.
Velocity modulation tube. E. Touraton and C. Dumousseau. 2,610,306, Sept. 9.
Vending machine, Coin controlled. Harry S. Childers. 2,610,100, Sept. 9
Veneer trimmer. E. Pedron. 2,609,874, Sept. 9.
Vibrating equipment. L. E. Soldan. 2,609,930, Sept. 9.
Vibration isolator. C. E. Crede. 2,610,016, Sept. 9.
Vibration isolator. F. Lambert, Jr., and C. E. Crede. 2,610,017, Sept. 9.
Vibrator, Pneumatic. W. S. Bohlman. 2,609,791, Sept. 9.
Vinylidene chloride, Preparing. J. L. Amos. 2,610,214, Sept. 9.
Viscosity meter air barrier. L. C. Eitzen. 2,609,682, Sept. 9.
Vise jaw face plate. A. M. Maroth. 2,609,717, Sept. 9.
Wall plug. M. D. Gibson. 2,610,013, Sept. 9.
Wallboard containing a phenol formaldehyde resin and cattail fibers. E. M. S. Nuncio. 2,610,160, Sept. 9.
Washing and ironing machine, Towel. A. Miller. 2,609,623, Sept. 9.
Washing device for artificial dentures. M. Ward. 2,609,828, Sept. 9.
Watchcase, Waterproof. H. E. Vermot. 2,609,655, Sept. 9.
Water-repellant gypsum product. W. C. Riddell and G. B. Kirk. 2,610,130, Sept. 9.
Water-soluble multifilament yarn and making it. A. T. Walter and B. A. Price. 2,609,569, Sept. 9.
Wax lubricating composition. E. C. O'Neil. 2,610,150, Sept. 9.
Weather strip and sash balance, Combination. W. E. Bartlett. 2,609,572, Sept. 9.
Weaving pile fabrics. F. P. Groat. 2,609,839, Sept. 9.
Weft replenishing loom operating with two shuttles. R. G. Turner. 2,609,844, Sept. 9.
Weighing system. W. D. Macgeorge. 2,610,052, Sept. 2.
Well drilling pipe. J. E. Smith. 2,610,028, Sept. 9.
Wheel. C. R. Paton. 2,609,856, Sept. 9.
Wheeled shopping bag. H. C. Davis and R. A. Claridge. 2,610,071, Sept. 9.
Window bracket. G. Stamos. 2,609,936, Sept. 9.
Window panel construction. J. A. Potchen. 2,609,896, Sept. 9.
Window structure, Astral type. G. Poggi. 2,609,571, Sept. 9.
Windshield wiper. J. H. Wernig. 2,609,561, Sept. 9.
Windshield wiper system. R. Freedman and J. E. Dube. 2,609,795, Sept. 9.
Wire insulation stripper. B. G. Forman. 2,609,716, Sept. 9.
Work supporting attachment for screw machines and the like. S. O. Shumaker. 2,609,592, Sept. 9.
Woven wire fencing. F. J. Mafera. 2,610,009, Sept. 9.
Wrench: *See*—
  Speed wrench.
X-ray photometer. C. A. Hansen, Jr. 2,610,301, Sept. 9.
Yarn winding machine. D. R. Eastwood. 2,609,997, Sept. 9.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 9, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

1— 1: 2,609,536
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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Classification of Designs

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Condition of Applications Under Examination at Close of Business August 22, 1952

Total number of patent applications awaiting action, 96,976. Date of oldest new application, November 16, 1951; date of oldest amended application, November 13, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	12-7-51	12-6-51	1460
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	1-26-52	1-5-52	1140
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1-22-52	1-22-52	1669
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	11-30-51	11-26-51	1427
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	11-26-51	11-21-51	1181
6. SURLE, H., Carbon Chemistry (part)	1-2-52	12-15-51	1909
7. ANDERSON, E. G. (Acting), Optics; Photography (part)	1-3-52	12-28-51	1337
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	12-26-51	12-26-51	1411
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	11-16-51	11-13-51	1473
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	12-7-51	12-12-51	1317
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	12-10-51	12-6-51	866
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-5-51	11-28-51	1287
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	11-23-51	11-23-51	1184
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus.	12-5-51	12-4-51	1480
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	1-29-52	1-28-52	1386
16. LOVEWELL, N. N., Television, Telephony	12-6-51	12-5-51	1294
17. LEIGHY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-3-51	12-3-51	1309
18. KURZ, J. A., Power Plants; Speed Responsive Devices	11-24-51	11-24-51	886
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	12-26-51	12-5-51	1087
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	12-21-51	12-17-51	1350
21. MADER, R. C., Textiles	12-5-51	11-29-51	1303
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-1-51	12-1-51	1079
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12-26-51	12-21-51	806
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	12-26-51	12-26-51	1438
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	12-3-51	12-3-51	1315
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	12-4-51	12-7-51	1197
27. JAMES, S., Brushing, Scrubbing: Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	12-13-51	12-10-51	1645
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	11-23-51	11-26-51	1266
29. HABECKER, L. B., Button Making; Woodworking; Tools	12-21-51	12-10-51	969
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	1-2-52	1-2-52	1510
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy compounds, Hydrocarbons, Halogenated Hydrocarbons.	12-4-51	12-10-51	2238
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-proportioning Systems.	12-6-51	12-12-51	1190
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-1-51	11-29-51	1857
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	12-7-51	12-6-51	1132
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	12-8-51	12-7-51	1337
36. McFADYEN, A. D., Measuring and Testing	12-13-51	12-12-51	1102
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	12-31-51	12-28-51	1227
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	12-1-51	12-1-51	1411
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	12-26-51	12-26-51	1740
40. DRUMMOND, E. J., Receptacles (part); Packages	1-9-52	1-18-52	1299
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	12-21-51	12-14-51	900
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	12-28-51	12-26-51	1003

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 96,976. Date of oldest new application, November 16, 1951; date of oldest amended application, November 13, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	12-19-51	1-2-52	1350
44. HARVEY, L. P., Beds; Chairs; Seats	11-26-51	11-24-51	1214
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-29-51	12-12-51	1185
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	11-29-51	11-24-51	1134
47. KANOF, W. J., Mining, Quarrying and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	11-24-51	11-24-51	1565
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-6-51	12-4-51	1636
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	11-23-51	11-26-51	1392
50. BENGEL, W. G., Synthetic Resins	1-23-52	1-22-52	1472
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	12-20-51	12-20-51	1393
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-2-52	12-27-51	2056
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	12-27-51	1-2-52	954
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-8-51	11-23-51	1657
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	12-7-51	12-6-51	1050
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	12-14-51	12-13-51	1938
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-2-52	1-2-52	1591
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	12-7-51	11-30-51	1158
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	12-24-51	12-26-51	1063
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	1-9-52	1-16-52	876
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-5-51	11-29-51	1295
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	1-11-52	12-28-51	1196
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-4-51	12-6-51	1699
64. GORECKI, G. A., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	12-4-51	12-8-51	2125
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	12-4-51	12-4-51	1480
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	11-30-52	11-26-52	924
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	1-24-52	1-7-52	1205
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-5-52	12-26-51	1436
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	11-21-51	11-19-51	1241
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	11-26-51	11-27-51	2943
DESIGNS: A. BREHM, G. L., Industrial Arts	5-27-52	5-20-52	602
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	5-3-52	5-2-52	749

Total number of trade-mark applications awaiting action (including renewals and republications), 15,083. Date of oldest new application, March 4, 1952; date of oldest amended application, March 5, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	3-4 52	3-5-52	3661
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	3-7-52	3-5-52	3679
Renewals (All Classes)	5-28-52	7-8-52	843
Republications (All Classes)	5-17-52	4-17-52	306
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	3-4-52	3-7-52	3553
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	3-11-52	3-10-52	3041

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

BESSER MANUFACTURING COMPANY ET AL.

v.

UNITED STATES

No. 230. Decided May 26, 1952

[— U. S. —; 93 USPQ 321]

1. PATENTS — LICENSES — COMPULSORY LICENSING AND SALE RECOGNIZED REMEDIES IN ANTITRUST ACTIONS.

Held that in antitrust actions compulsory licensing and sale of patented devices are recognized remedies.

2. SAME—SAME—METHOD OF FIXING ROYALTIES WITHIN DISCRETION OF TRIAL COURT.

Where the method adopted by the court for fixing reasonable royalty rates under patent licenses involved the establishment of a committee composed of two representatives of each party with the judge or his representative acting as the fifth arbitrator, *Held* that the method did not constitute an abuse of the discretion accorded to trial courts in such matters and was entirely reasonable and fair.

APPEAL from District Court for Eastern District of Michigan.

AFFIRMED.

Carl R. Henry (*William J. Donovan, Roy W. McDonald, Peyton H. Moss,* and *Donovan, Leisure, Newton, Lumbard & Irvine,* and *John W. Babcock* of counsel) for appellant.

Marcus A. Hollabaugh (*Philip B. Perlman, H. G. Morison, James L. Morrisson, Charles H. Weston, William D. Kilgore,* and *Wharey M. Freeze* of counsel) for appellee.

MR. JUSTICE JACKSON delivered the opinion of the Court.

The United States brought this civil action under § 4 of the Sherman Act charging appellants and others with conspiring to restrain and monopolize interstate commerce in concrete block-making machinery in violation of §§ 1 and 2 of the act, and charging appellants with monopolizing and attempting to monopolize the same industry in violation of § 2 of the act.[1]

The defendants below were the Stearns Manufacturing Company, second largest producer in the country of concrete block-making machines, Besser Manufacturing Company, the country's dominant producer of such machinery and substantial stockholder in the Stearns Company, Jesse H. Besser, long-time president and virtually sole stockholder of the Besser Company, and two individuals, Gelbman and Andrus, co-owners of certain important patents in the concrete block-making machine field.

The United States District Court for the Eastern District of Michigan found the Government's charges clearly proved, and entered a judgment intended to correct the Sherman Act violations found to exist.[2]

Only the Besser Company and Jesse H. Besser have appealed, bringing their case here directly.[3]

Appellants assert that the factual conclusions of the trial court are erroneous. Only recently we reiterated the narrow scope of review here with respect to issues of fact in antitrust cases. *United States* v. *Oregon State Medical Society*, 343 U. S. 326. In this case we think it enough to say that the conclusions of the trial judge that appellants conspired to restrain and monopolize interstate commerce in concrete block-making machinery and that they monopolized and attempted to monopolize that industry are overwhelmingly supported by the evidence. Not the slightest ground appears for concluding that the trial judge's findings were "clearly erroneous." Rule 52 (a), Fed. Rules Civ. Proc.

We turn now to the provisions of the judgment entered below which are attacked by appellants. It is unnecessary for us to review appellants' activities in detail, for they are adequately set out in the opinion below. Suffice it to say that appellants sought to eliminate competition through outright purchase of competitors and strict patent-licensing arrangements with the Stearns Company and the patent owners, Gelbman and Andrus.

Appellants contend that the provisions of the judgment requiring them to issue patent licenses on a fair royalty basis and requiring them to grant to their existing patent licensees an option, on terms "mutually satisfactory to the parties concerned," (1) to terminate their lease, (2) to continue their lease, or (3) to purchase leased machines, are punitive, confiscatory and inappropriate.

[1] However, compulsory patent licensing is a well-recognized remedy where patent abuses are proved in antitrust actions and it is required for

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effective relief. *Hartford-Empire Co.* v. *United States*, 323 U. S. 386, 413, 417–418 [64 USPQ 18, 31, 32–33], 577 O. G. 665; *United States* v. *National Lead Co.*, 332 U. S. 319, 338 [73 USPQ 498, 505–506]; *United States* v. *United States Gypsum Co.*, 340 U. S. 76, 94 [87 USPQ 276, 282].

The compulsory sale provision of the judgment, strenuously attacked, is likewise a recognized remedy. *International Salt Co.* v. *United States*, 332 U. S. 392, 398–399 [75 USPQ 184, 186–187]. That required by the judgment in this case must be considered in conjunction with the alternatives associated with it. Appellants are left free to lease rather than sell if they can make a lease sufficiently attractive.

Appellants further argue that the method adopted by the court below for fixing reasonable royalty rates under their patent licenses deprives them of their property without due process of law. The court directed Besser and the Government each to select two persons to serve as arbitrators on a committee to establish fair royalty rates and the form and contents of royalty contracts. It was also provided that in the event of a stalemate, the four representatives should choose a fifth to vote and break the deadlock. If they could not agree on a fifth representative, the trial judge was to sit as the fifth or appoint another person to serve in his place. After some delay, and under protest, Besser appointed his representatives, the Government having appointed its shortly after the plan had been promulgated by the court. The representatives selected by the Government were taken from the industry, the Government noting to the court that they were serving on their own behalf and as agents of other prospective licensees, and not as agents of the Department of Justice.

When an impasse was reached with regard to royalty rates on certain Besser patents, the judge stepped in as the fifth arbitrator and voted for the rates proposed by the government-appointed representatives. Appellants assail this procedure with the contention that royalties set must be "made in judicial proceedings based on the hearing and evaluation of evidence in the light of appropriate criteria."

Appellants' argument fails on two counts. First, it necessarily attacks the sufficiency of the evidentiary material considered in arriving at the royalties finally established. We do not pass on matters of that character in the absence of glaring error not shown here. Secondly, appellants appear to have misunderstood the true nature of what was done, for it was always within the power of the trial judge to establish the royalty rates, and, in voting as he did, he did just that. They contend that the judge should either have held a full hearing himself or referred the royalty matters to a master for such a hearing. We do not, however, think that in reducing the terms of a decree to concrete measures such procedures are mandatory. It is true that the procedure adopted below is an innovation in certain aspects, but novelty is not synonomous with error.

[2] In framing relief in antitrust cases, a range of discretion rests with the trial judge. *United States* v. *National Lead Co.*, supra, at 338 [73 USPQ at 505–506]; *International Salt Co.* v. *United States*, supra, at 400–401, 405 [75 USPQ at 187–188, 189]; *United States* v. *Crescent Amusement Co.*, 323 U. S. 173, 185. We can see no abuse of discretion here. Compulsory licensing and sale of patented devices are recognized remedies. They would seem particularly appropriate where, as here, a penchant for abuses of patent rights is demonstrated. With respect to the procedure for establishing royalty rates, the court below was likewise acting within the discretion vested in it. "[The District Court] should provide for its determination of a reasonable royalty either in each instance of failure to agree or by an approved form *or by any other plan in its discretion.*" *United States* v. *United States Gypsum Co.*, supra, at 94 [87 USPQ at 282]. (Italics added.) The procedure here was entirely reasonable and fair. A competent committee considered relevant evidence and the judge, on the basis of the evidence adduced before the committee, resolved the deadlock into which the negotiations had fallen.

Although not condemning the royalty-setting procedure used here, the Government indicates faint enthusiasm for it, and suggests that this Court consider the procedure outlined by it below and direct that it be utilized hereafter in the proceedings remaining in this litigation. We would exceed our appellate functions were to adopt that suggestion in this case. "The framing of decrees should take place in the District rather than in Appellate Courts." *International Salt Co.* v. *United States*, supra, at 400 [75 USPQ at 187–188]; *United States* v. *Crescent Amusement Co.*, supra, at 185.

We have examined appellants' other contentions and concluded that they are without merit.

In accordance with the foregoing, the judgment below is affirmed.

AFFIRMED.

MR. JUSTICE CLARK took no part in the consideration or decision of this case.

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[1] 26 Stat. 209, as amended, 15 U. S. C. § 4: "The several district courts of the United States are invested with jurisdiction to prevent and restrain violations of sections 1–7 of this title; and it shall be the duty of the several district attorneys of the United States, in their respective districts, under the direction of the Attorney General, to institute proceedings in equity to prevent and restrain such violations. • • •"

15 U. S. C. § 1: "Every contract, combination in the form of trust or otherwise, or conspiracy, in restraint of commerce among the several States • • • is declared to be illegal. • • •"

15 U. S. C. § 2: "Every person who shall monopolize, or attempt to monopolize, or combine or conspire with any other person or persons, to monopolize any part of the trade or commerce among the several States • • • shall be deemed guilty of a misdemeanor. • • •"

[2] 96 F. Supp. 304 [88 USPQ 421].

[3] Pursuant to § 2 of the Expediting Act of 1903, 32 Stat. 823, as amended, 15 U. S. C. § 29.

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 69,530, The Vogue Co., Weekly magazine; T. M. 125,542, same, Magazine and periodical publication, D. C., S. D. N. Y., Doc. 61/327, *The Conde Nast Publications, Inc.* v. *Vogue School of Fashion Modelling, Inc., et al.* Defendants enjoined June 19, 1952.

T. M. 101,858, T. M. 218,398, Lorraine Mfg. Co., Certain named materials and cotton piece goods; T. M. 330,739, same, Men's and boys' suits, coats, trousers; T. M. 500,194, T. M. 500,601, same, Piece goods; T. M. 502,812, same, Men's and boys', ladies' and girls' clothing, filed June 24, 1952, D. C., S. D. N. Y., Doc. 76/354, *Lorraine Mfg. Co.* v. *Lorraine Smart Shops, Inc., et al.*

T. M. 111,828, International Heater Co., Warm air furnace, etc., filed June 27, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13863, *International Heater Co.* v. *International Heating Co. et al.*

T. M. 122,828, Swift & Co., Oleomargarine; T. M. 261,221, same, Gelatin; T. M. 140,225, same, Lard, ham, bacon, oleomargarine, D. C., N. D. Calif. (San Francisco), Doc. 31243, *Swift & Co.* v. *Premium Frozen Food Products, Inc.* Injunction for use of word "Premium" (notice May 20, 1952).

T. M. 125,542. (See T. M. 69,530.)

T. M. 140,225. (See T. M. 122,828.)

T. M. 218,398. (See T. M. 101,398.)

T. M. 261,221. (See T. M. 122,828.)

T. M. 288,284, Automatic Canteen Co., Vending machine, D. C., N. D. Ill. (Chicago), Doc. 50c482, *Automatic Canteen Co. of America et al.* v. *South Side Canteen Co.* Default judgment for plaintiff—defendants enjoined and restrained from using term "Canteen" June 18, 1952.

T. M. 330,739. (See T. M. 101,398.)

T. M. 408,740, Princeton Silk Co., Rayon piece goods, D. C., S. D. N. Y., Doc. 64/88, *Princeton Silk Co. et al.* v. *Kanbro Fabrics.* Order dismissing cause for lack of prosecution June 10, 1952.

T. M. 500,194. (See T. M. 101,398.)

T. M. 502,812. (See T. M. 101,398.)

T. M. 531,724, Library Service, Transparent protecting covers for paper book jackets, D. C., S. D. N. Y., Doc. 64/112, *Library Service* v. *Hubbs Corp. et al.* Stipulation and order of discontinuance (notice June 25, 1952).

NOTICES

Recordation of Trade Name Canceled

[T. D. 53078]

Tentative recordation of trade name under section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations of 1943, canceled

TREASURY DEPARTMENT,
OFFICE OF THE COMMISSIONER OF CUSTOMS,
Washington, D. C., Aug. 15, 1952

To Collectors of Customs and Others Concerned:

Reference is made to T. D. 53054, dated July 25, 1952, notifying all customs officers of the tentative recordation of the trade-name described below following the receipt of an application filed by the party in interest under the provisions of section 42, Trade-Mark Act of 1946, and section 11.16, Customs Regulations of 1943:

"THE PRAKTICA CO. INC.," owned by The Praktica Company, Inc., a corporation of New York, 48 West 29th Street, New York 1, New York, which trade name is applied to cameras and accessories therefor manufactured in Germany.

The Bureau has now received the Certificate of Registration of the trade-mark "PRAKTICA," Registration No. 555,299, registered February 26, 1952, by the Ercona Camera Corporation, 527 Fifth Avenue, New York 17, New York, on the Principal Register in accordance with the act of July 5, 1946. The statement accompanying the Certificate of Registration shows that this trade-mark has been used by its owner since February 24, 1950, approximately 20 months before the alleged first date of use by The Praktica Company, Inc., and that the mark is used in connection with cameras in Class 23. The trade-mark was recorded with the Treasury Department on August 8, 1952.

It is the opinion of the Bureau that the name "THE PRAKTICA CO. INC." is confusingly similar to the registered trade-mark "PRAKTICA," and in view of this and in view of the fact that the trade-mark owner had prior use of the word "PRAKTICA," the tentative recordation of "THE PRAKTICA CO. INC." as a trade name is hereby canceled.

All articles presently being detained solely on the ground that they bear marks or names which copy or simulate the trade name shall be released and all articles bearing such marks or names shall not be detained if entered before the date of recordation of the trade-mark "PRAKTICA."

(Signed) FRANK DOW,
Commissioner of Customs.

Trade-Mark Rules

A revised edition of *Rules of Practice in Trade-Mark Cases* is now available. This edition incorporates amendments to the rules effective February 8, 1952, and the revision of some supplementary materials.

Copies may be procured from the Superintendent of Documents, Government Printing Office, Washington, D. C., for 35¢ each.

T. B. MORROW,
Aug. 19, 1952 *Executive Officer.*

Interference Notice

Lorin M. Sims, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Rice Growers Association of California, P. O. Box 958, Sacramento, Calif., for registration of a trade-mark, and Registration No. 372,661 issued November 7, 1939, to Lorin M. Sims, No. 1 Division Street, San Francisco, Calif., and the notice of such declaration sent by registered mail to the said Lorin M. Sims at the said address of record having been returned by the post office undeliverable, notice is hereby given that unless said Lorin M. Sims, his assigns or legal representatives shall enter an appearance therein, within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Sept. 2 1952.)

JOHN A. MARZALL,
Aug. 12, 1952. *Commissioner of Patents.*

Adjudicated Patents

(C. A. Colo.) Merrill Patent No. 2,013,785, for a frame straightening apparatus. Claims 1 and 2 *Held* valid and not infringed. *Merrill* v. *Builders Ornamental Iron Company*, 197 F.2d 16; 93 USPQ 276.

(C. A. Colo.) Merrill Patent No. 2,042,856, for an apparatus for straightening axles and truing the wheels of automobiles. Claim 9 *Held* invalid. *Id.*

(C. A. N. Y.) Kainen Patent No. 2,053,481, for a method of making buckle frames, *Held* invalid. *Algren Watch Findings Co., Inc.* v. *Kalinsky*, doing business as *Harkal Manufacturing Co.*, 197 F.2d 69; 93 USPQ 490.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,490,262, A. G. Gable, Engine rocker arm, decided July 30, 1952, claim 3.

Pat. 2,480,688, E. L. Allen, Door control mechanism, decided Aug. 8, 1952, claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 19, 20, and 21.

Pat. 2,508,008, H. H. Block, Composition for joining metal surfaces, decided Aug. 8, 1952, claim 1.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

International Harvester Company has placed 101 patents on the Register as available for licensing on reasonable terms, in addition to more than 1400 patents previously registered. The following 54 patents constitute part of this listing; the remainder will be listed in a subsequent issue of the OFFICIAL GAZETTE.

Applications for licenses should be addressed to: Patent Department, International Harvester Company, 180 North Michigan Ave., Chicago 1, Ill.

Re. 21,920. Wheel. Reissued Oct. 14, 1941. (Original No. 2,200,766, May 14, 1940.) Relates to an improved rim clamping means for a wheel having a demountable tire-carrying rim thereon in which the rim may be removed from either side with a minimum of time and effort. Group 38—31. Reg. No. 48,642.

Re. 21,989. Tractor Implement. Reissued Dec. 30, 1941. (Original No. 2,109,677, Mar. 1, 1938.) Relates to means for lifting and lowering tractor-attached implements, and more particularly to means for guiding and controlling the movements of the implements during the lifting and lowering operations. Group 35—22. Reg. No. 48,643.

Pat. 2,119,784. Liquid Sterilizing Device. Patented June 7, 1938. Relates to an apparatus for subjecting liquids to the action of radiant energy. Group 35—51. Reg. No. 48,644.

Pat. 2,223,577. Vehicle Body. Patented Dec. 3, 1940. Relates to a vehicle body construction, and more particularly to means which supply supports for corner posts or panels. Group 38—22. Reg. No. 48,645.

Pat. 2,224,970. Harvester Thresher. Patented Dec. 17, 1940. Relates to a harvester thresher platform having an auger conveyer, and more particularly to means enabling the outer end ot the platform to be folded in a facile manner for narrowing the over-all width of the machine so that it may be conveniently transported through narrow places. Group 35—22. Reg. No. 48,646.

Pat. 2,228,520. Teat Cup Rinser. Patented Jan. 14, 1941. Relates to a teat-cup rinser which will spray and then rinse the four teat cups of a teat-cup cluster simultaneousiy. Group 35—22. Reg. No. 48,647.

Pat. 2,309,257. Wheel Mounting. Patented Jan. 26, 1943. Relates to wheel mountings, and more particularly to means for securing a wheel hub on a wheel box without finishing the mating parts of the wheel box and hub to insure their assembly. Group 38—31. Reg. No. 48,648.

Pat. 2,334,947. Power Lift Device. Patented Nov. 23, 1943. Relates to a power lift device for plows, of a type that utilizes a coil spring adapted for frictional engagement with a ground driven part, and means whereby adjustments may be made to take care of manufacturing irregularities and of wear of the frictional engaging parts. Group 35—22. Reg. No. 48,649.

Pat. 2,371,835. Steering Mechanism. Patented Mar. 20, 1945. Relates to a trailing vehicle steering mechanism in which is provided an adjustment and lock for a pair of interconnected parts. Group 38—11—31. Reg. No. 48,650.

Pat. 2,389,533. Cotton Conveyer Blower. Patented Nov. 20, 1945. Relates to a cotton conveyer blower so constructed that the cotton seeds will be treated with sufficient gentleness to avoid breaking their shells. Group 35—22—62. Reg. No. 48,651.

Pat. 2,399,718. Cotton Harvester. Patented May 7, 1946. Relates to a tractor-mounted cotton harvester and more particularly to a conveying system for the cotton in which a fan is used, and means for moving the cotton without having it come in contact with the fan blades. Group 35—22. Reg. No. 48,652.

Pat. 2,401,152. Cotton Conveying Apparatus for Cotton Pickers. Patented May 28, 1946. Relates to a pneumatic cotton conveyer for a cotton picker employing a blower on the rearward side portion of a tractor in such an arrangement and position that adapts the rotor of said blower to be driven by a drive shaft receiving power from the front of a tractor engine. Group 35—22—62. Reg. No. 48,653.

Pat. 2,401,183. Tractor-Mounted Implement. Patented May 28, 1946. Relates to an improved lifting structure for mounting implements on a tractor using power from a power-lift mechanism which lifts one portion of the implement, another portion being elevated by movement of the implement on an inclined mounting member. Group 35—22. Reg. No. 48,654.

Pat. 2,403,396. Tying Mechanism. Patented July 2, 1946. Relates to a tying means for a hay baler having a feed opening in the vertical side thereof. Group 35—22. Reg. No. 48,655.

Pat. 2,405,688. Tier. Patented Aug. 13, 1946. Relates to an improved tying mechanism for a hay baler and more particularly to construction which permits the tier to move downwardly toward the bali chamber to provide slack in the baling strand to produce a tie without a pulling-up of the strand around the bale. Group 35—22. Reg. No. 48,656.

Pat. 2,409,510. Power Adjusting Mechanism. Patented Oct. 15, 1946. Relates to the provision in a hydraulic system for controlling the elevation of a tillage tool, of valve means having variable delivery successively operable flow rate stages for controlling the energization and speed of the fluid-driven motor which changes the elevation of the tool. Group 35—22. Reg. No. 48,657.

Pat. 2,427,861. Harvester for Cutting Standing Cornstalks and Removing Ears Therefrom. Patented Sept. 23, 1947. Relates to means provided in a tractor-mounted corn picker for conveying cut stalks to an ear-stripping means and stripping ears of corn therefrom. Group 35—22. Reg. No. 48,658.

Des. 152,000. Freezer Chest Cabinet. Patented Dec. 7, 1948. Relates to a design for freezer chest cabinets. Term of patent 14 years. Group 35—84. Reg. No. 48,659.

Des. 152,001. Combination Refrigerator and Cooler Cabinet. Patented Dec. 7, 1948. Relates to a design for combination refrigerator and cooler cabinets. Term of patent 14 years. Group 35—84. Reg. No. 48,660.

Pat. 2,464,526. Retrigerator Construction. Patented Mar. 15, 1949. Relates to a refrigerator cabinet breaker strip construction in which the fastening means are not exposed after the strip is in position. Group 35—84. Reg. No. 48,661.

Pat. 2,464,534. Implement Attaching Means. Patented Mar. 15, 1949. Relates to means for the quick attachment to a tractor of various working tools. Group 35—22. Reg. No. 48,662.

Pat. 2,474,205. Pneumatic Grain Elevator. Patented June 21, 1949. Relates to a pneumatic grain elevator, and more particularly to means provided for raising grain from a low level to a relatively high level by means of suction. Group 35—22—62. Reg. No. 48,663.

Pat. 2,488,698. Implement Construction. Patented Nov. 22, 1949. Relates to an improved arrangement for quickly attaching or detaching a tractor-mounted harvester thresher to a tractor. Group 35—22. Reg. No. 48,664.

Pat. 2,507,689. Governing Mechanism for Fuel Injection Pumps. Patented May 16, 1950. Relates to a modified governor control in which the normal balance spring on the governor is held out of action during a condition resulting from decreased speed at a full load condition of operation. Group 38—31. Reg. No. 48,665.

Pat. 2,513,938. Inner Shoe for Reciprocating Mowers. Patented July 4, 1950. Relates to an inner shoe construction for a mower provided with an improved shoe construction including means for connecting the shoe to a support and for connecting the shoe also to a laterally extending cutter bar. Group 35—22. Reg. No. 48,666.

Pat. 2,513,942. Harvesting Power Unit. Patented July 4, 1950. Relates to a tractor particularly adapted for carrying implements, such as harvester-threshers, in which space and weight-carrying capacity and better operator's vision are provided. Group 35—22. Reg. No. 48,667.

Pat. 2,513,966. Pick-Up Attachment for Harvesters. Patented July 4, 1950. Relates to a pick-up attachment for harvesters provided with means for floating the pick-up with respect to the regular harvester platform. Group 35—22. Reg. No. 48,668.

Pat. 2,517,413. Floating Pick-Up Attachment for Harvesters. Patented Aug. 1, 1950. Relates to a pick-up attachment for harvesters in which the pick-up is arcuately floatable about the forward end of the harvester platform and counterbalanced therewith so that upon striking any obstruction or great quantity of grain the pick-up will normally yield upward. Group 35—22. Reg. No. 48,669.

Pat. 2,518,284. Multiple Compressor Truck Refrigeration Unit. Patented Aug. 8, 1950. Relates to the introduction of auxiliary booster refrigeration capacity to a truck-trailer refrigerator apparatus. Group 35—84. Reg. No. 48,670.

Pat. 2,524,205. Tractor Implement. Patented Oct. 3, 1950. Relates to means for quickly attaching the rockshaft of a power-lift to the fenders of a tractor. Group 35—22. Reg. No. 48,671.

Pat. 2,527,786. Endless Chain Gatherer for Corn Harvesters. Patented Oct. 31, 1950. Relates to an endless chain gatherer for a corn picker that firmly holds the stalk as the ears are being snapped. Group 35—22. Reg. No. 48,672.

Pat. 2,527,823. Control Mechanism for Corn Picker Elements. Patented Oct. 31, 1950. Relates to a hydraulic control for raising and lowering the gathering points and the wagon elevator of a corn picker. Group 35—22. Reg. No. 48,673.

Pat. 2,532,057. Package Delivery Type Motor Vehicle. Patented Nov. 28, 1950. Relates to a motor vehicle of the multi-stop type which features a low level unobstructed operator's station and a substantially constant level unobstructed load-carrying floor. Group 38—11—22. Reg. No. 48,674.

Pat. 2,533,804. Tractor Mower Hitch. Patented Dec. 12, 1950. Relates to a tractor-attached mower, which is provided with a hoisting means adapted to cooperate with a fixed part of the tractor, and thereupon be capable of raising the mower to operating position. Group 35—22. Reg. No. 48,675.

Pat. 2,540,232. Overrunning Clutch Type Gear Synchronizer. Patented Feb. 6, 1951. Relates to an overrunning clutch type of synchronizer adaptable for use with a variable speed transmission wherein spherical ball-like members are tightly positioned in circumferentially disposed cam ramps. Group 35—66. Reg. No. 48,676.

Pat. 2,540,249. Grain Tank Attachment. Patented Feb. 6, 1951. Relates to a grain tank attachment that is located on one side of a tractor so as to counterbalance the weight of the harvester thresher mounted on the other side of the tractor. Group 35—22. Reg. No. 48,677.

Pat. 2,540,262. Scraping Hood for Double Disk Furrow Openers. Patented Feb. 6, 1951. Relates to an improved scraping hood for dislodging dirt accumulated on the furrow-opener disks. Group 35—22. Reg. No. 48,678.

Pat. 2,540,263. Mower Frame Construction. Patented Feb. 6, 1951. Relates to a simplified form of mower frame construction particularly adapted for direct connection to the rear of a tractor or other supporting vehicle. Group 35—22. Reg. No. 48,679.

Pat. 2,540,264. Ensilage Harvester Having Twin Roller Feed. Patented Feb. 6, 1951. Relates to the provision of a pair of cooperative feed rolls in an ensilage harvester which are in substantial alignment with and forming a continuation of the regular ensilage harvester conveyer chains. Group 35—22. Reg. No. 48,680.

Pat. 2,540,265. Break Joint Frame. Patented Feb. 6, 1951. Relates to a rod weeder provided with a yielding spring arrangement which permits the weeding rod frame to rise upon encountering an obstruction. Group 35—22. Reg. No. 48,681.

Pat. 2,540,273. Filter Element. Patented Feb. 6, 1951. Relates to fluid-filtering devices of the type including an envelope of thin filtering walls urged collapsed by an ambient body of fluid filterable inwardly therethrough, and relates more particularly to drainage structure for the envelope. Group 35—69. Reg. No. 48,682.

Pat. 2,540,283. Roller Bearing. Patented Feb. 6, 1951. Relates to a roller bearing provided with a cage having stay rods which maintain end-supporting members in laterally spaced apart position and in addition maintain concentricity of plural rings forming the end members. Group 35—66. Reg. No. 48,683.

Pat. 2,544,911. Control for Agricultural Field Harvesting Implements. Patented Mar. 13, 1951. Relates to a control means for corn-picking machines wherein the raising of the corn-gathering points automatically effects disengagement of a clutch controlling the drive of the wagon elevator associated with the corn picker. Group 35—22. Reg. No. 48,684.

Pat. 2,544,913. Grit Flushing Bearing Construction. Patented Mar. 13, 1951. Relates to a bearing construction wherein is provided means for flushing grit or other foreign matter in the lubricating oil from the bearing surface to the outside of the bearing at a parting line chamfer or sump. Group 35—66. Reg. No. 48,685.

Pat. 2,544,925. Hitch for Joining Harvester and a Wagon to a Tractor. Patented Mar. 13, 1951. Relates to a hitch means on a tractor that will permit a close coupling of a trailing corn harvester and wagon, which will automatically prevent the trailing vehicles from colliding with each other during turning of the entire unit. Group 35—22—69. Reg. No. 48,686.

Pat. 2,544,933. Gas Nozzle With Multiple Slot-Type Ports. Patented Mar. 13, 1951. Relates to an improved gas burner nozzle so constructed as to be unaffected by temperature changes. Group 33—65. Reg. No. 48,687.

Pat. 2,544,942. Chain Link Interspersing Machine. Patented Mar. 13, 1951. Relates to means in an automatically operable chain-making machine for inserting special links into the chain just prior to completion thereof without hindering the continuous formation and assembly of the regular links constituting the major portion of the completed chain. Group 35—42. Reg. No. 48,688.

Pat. 2,544,943. Moisture Tester. Patented Mar. 13, 1951. Relates to the mechanical means provided for determining moisture content of shelled corn. Groups 35—22; 36—13. Reg. No. 48,689.

Pat. 2,546,712. Sprag Type Synchronizer Device. Patented Mar. 27, 1951. Relates to a drive coupling wherein the segmented drive ring is composed of a plurality of like components in the form of wedges arranged in a circle in such a manner that each component or wedge may direct part of its force to a neighboring wedge. Group 35—66. Reg. No. 48,690.

Pat. 2,546,718. Milk Cooler. Patented Mar. 27, 1951. Relates to a device for maintaining milk cans substantially submerged in a liquid coolant in an upright position even though the cans may be empty. Group 35—22—84. Reg. No. 48,691.

Pat. 2,546,723. Automotive Truck Refrigeration Apparatus Defrosting Mechanism. Patented Mar. 27, 1951. Relates to a refrigeration unit defrosting circuit having a portion thereof in heat exchange relation with the muffler of an internal combustion engine. Group 35—84. Reg. No. 48,692.

Pat. 2,546,737. Sheet Metal Evaporator. Patented Mar. 27, 1951. Relates to an evaporator having high heat-absorbing properties resulting from a unique arrangement of the construction thereof that permits thermal contact of substantially the entire bottom areas of ice-freezing trays with flat refrigerated shelf surfaces fashioned within the evaporator. Group 35—84. Reg. No. 48,693.

Pat. 2,546,745. Piston Type Homogenizer Mechanism. Patented Mar. 27, 1951. Relates to the use of a homogenizing valve structure wherein a piston or plunger is utilized for forcing the liquid through the homogenizing valve. Group 35—51. Reg. No. 48,694.

Pat. 2,546,746. Synchronizer Clutch. Patented Mar. 27, 1951. Relates to means for selectively connecting or disconnecting rotatable parts of a power train as are present in a change-speed transmission, and particularly to means for preventing accidental disruption of the connection. Group 35—66. Reg. No. 48,695.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 9, 1952

[VOL. 662. No. 2]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 504,850. Lan-Lay Co., San Francisco, Calif. Filed June 29, 1946.



For Medicinal Preparation in Liquid Form for the Treatment of the Scalp To Effect a Massaging of the Same and To Dress the Hair.

Claims use since Aug. 1, 1945.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 518,609. Cut Kravagna, doing business as The Cleano Products Co., Los Angeles, Calif. Filed Mar. 6, 1947.

CLEANO

For Deodorizing Cleaner, and Stain Remover for Toilet Bowls, Urinals, and Sinks.

Claims use since May 15, 1946.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 595,943. The Cleveland Gypsum Company, Cleveland, Ohio. Filed Apr. 19, 1950.

LITE-ROCK

The notation "Lite" is disclaimed. Applicant claims ownership of Registration No. 548,549.

For Expanded Igneous Earthy Material, Such as Perlite, of Volcanic Glass Type for General Use.

Claims use since on or about Mar. 27, 1949.

Ser. No. 616,037. James H. Knowles, doing business as James H. Knowles & Associated Breeders, a sole proprietorship, Centralia, Wash. Filed July 3, 1951.

Barrel Breasted

For Poultry of Marketable Size, Chicks, and Hatching Eggs.

Claims use since on or about Mar. 1, 1950.

Ser. No. 617,663. Godchaux Sugars, Inc., New Orleans, La. Filed Aug. 14, 1951.

SERVALL-STAZDRY

The term "Stazdry" is disclaimed. Applicant claims ownership of Registrations Nos. 331,249 and 341,507.

For Sterilized Litter for Poultry.

Claims use since Nov. 1, 1941.

Ser. No. 624,573. Sunnyhill Aggregates Corporation, Pittsburgh, Pa. Filed Feb. 5, 1952.

SUNNYHILL

For Granulated Shale.

Claims use since Dec. 28, 1951.

Ser. No. 624,628. Barrow, Hepburn & Gale Limited, London, England. Filed Feb. 7, 1952.

BERMOX

The representation of the bull's head is disclaimed. Applicant claims ownership of British Registration No. 442,136, dated Oct. 30, 1923.
For Leather and Skins Unwrought and Wrought.

Ser. No. 624,892. Monsanto Chemical Company, St. Louis, Mo. Filed Feb. 13, 1952.

ULTRON

Applicant claims ownership of Registration No. 501,147.
For Synthetic Resin Materials in the Form of Sheets, Films, Tubes, and Rods for Use in the Industrial Arts and Further Manufacture.
Claims use since Feb. 25, 1947.

Ser. No. 625,538. James W. Owen, doing business under the name Marie Kruse Nurseries, Bloomington, Ill. Filed Feb. 26, 1952.

MYSTERIA

For Plant Bulbs.
Claims use since July 8, 1951.

Ser. No. 625,633. O. M. Scott & Sons Company, Marysville, Ohio. Filed Feb. 27, 1952.



For Field, Garden, Lawn, and Grass Seeds.
Claims use since Mar. 1, 1940.

Ser. No. 625,648. Woodruff Coal Company, Kalamazoo, Mich. Filed Feb. 27, 1952.

Red Cap

For Coal.
Claims use since Jan. 22, 1952.

CLASS 2

RECEPTACLES

Ser. No. 610,338. Rassenfoss Bag Company, Glenview, Ill. Filed Feb. 20, 1951.

LUXOR

For Plastic Garment Storage Bag.
Claims use since June 15, 1950.

Ser. No. 613,018. Ohio Natural Casing and Supply Co., Newark, Ohio. Filed Apr. 23, 1951.

Van-Skin

The word "Skin" is disclaimed.
For Neutral Sausage Casings Sold as Such.
Claims use since Jan. 3, 1950.

Ser. No. 618,696. Empire Box Corporation, Garfield, N. J. Filed Sept. 12, 1951.

Economatic

For Cardboard Cartons and Boxes.
Claims use since Aug. 8, 1951.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 616,623. Brown & Bigelow, St. Paul, Minn. Filed July 18, 1951.

Remelon

For Billfolds, Key Cases, Portfolios, Carrying Cases for Blankets, Fitted Toilet Cases, Wallets.
Claims use since Jan. 27, 1950.

Ser. No. 617,127. Rice-Stix, Inc., St. Louis, Mo. Filed July 30, 1951.

"Treasure Chest"

For Luggage—Namely, Train Cases, and Cosmetic Cases.
Claims use since Dec. 27, 1950.

Ser. No. 624,770. Amity Leather Products Co., West Bend, Wis. Filed Feb. 11, 1952.

Mi-Memory

For Combination Pocket Secretary and Memorandum Book.
Claims use since Jan. 21, 1952.

Ser. No. 624,819. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Feb. 12, 1952.

Fedway

For Handbags, Trunks, Foot Lockers, Hand Luggage Formed From Metal, Canvas, Leather and Combinations of These Materials, Dressing Cases, Hat Cases, Brief Cases, Bird Cages, Bird Stands, Billfolds, Wallets, and Purses.
Claims use since Jan. 17, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 592,560. Albert Field, doing business under the name of Field Abrasive Specialty Mfg. Co., Dayton, Ohio. Filed Feb. 16, 1950. (Sec. 2f—Additional evidence.)

Strongstitch

Applicant claims ownership of Registration No. 416,029.
For Flexible Abrasive Rolls.
Claims use since Apr. 1, 1944.

Ser. No. 606,924. Avidon Lipsez, doing business under the name and style of Glide-X Chemical Company, Somerville, Mass. Filed Nov. 25, 1950.

GLIDE-X

For Liquid Wax Polish and Cleaner Compound for Cleaning and Waxing Painted, Lacquered, or Varnished Surfaces, Woodwork, Glass, and Chromium Plate.
Claims use since Dec. 24, 1948.

Ser. No. 611,147. John P. Roth, doing business under the names of Germicidal Products Company and Maintenance Chemicals Manufacturing Company, Chicago, Ill., assignor to O-Cedar Corp'n, Chicago, Ill., a corporation of Illinois. Filed Mar. 10, 1951.

DRI-GLO

The word "Dri" is disclaimed.
For Furniture Polish, Metal Polish.
Claims use since July 1939.

Ser. No. 612,619. Lindsay Light & Chemical Company, West Chicago, Ill. Filed Apr. 13, 1951.

CEROX

For Material for Polishing Lenses, Mirrors, Television Tubes, and Other Glass and Glass-Like Surfaces.
Claims use since Mar. 12, 1951.

Ser. No. 618,928. Maenard D. Hall, doing business as Hi-Lustre Products Co., Los Angeles, Calif. Filed Sept. 18, 1951.

GLAX

For Customized Automobile Glazing Wax.
Claims use since Jan. 1, 1951.

CLASS 5

ADHESIVES

Ser. No. 610,710. Monsanto Chemical Company, St. Louis, Mo. Filed Mar. 1, 1951.

MONTAC

For Resinous Chemical Compositions for Use as Adhesives and in the Formulation Thereof.
Claims use since Feb. 9, 1951.

Ser. No. 629,658. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed May 14, 1952.

UNITECTIC

For Resinous Adhesives for Joining Metals.
Claims use since May 7, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 572,367. C. J. Martin & Sons, Inc., Austin, Tex. Filed Jan. 18, 1949. (Sec. 2f.)

Martin's

Applicant claims ownership of Registrations Nos. 85,152 and 390,079.
For Creosote Dips, Disinfectants, Insecticides, D. D. T. Concentrate, Sodium Fluoride, Household Deodorant, Agricultural Insecticides, Benzol, Iron Sulphate, Blue Vitriol, Glauber Salts, and Wood Preservatives.
Claims use since 1938.

Ser. No. 611,676. American Maize-Products Company, New York, N. Y. Filed Mar. 23, 1951.

MAIZYME

For Starch Treated To Facilitate the Action of Enzymes as a Step in the Preparation of Adhesives, Sizes, Fillers, and the Like.
Claims use since Jan. 29, 1951.

Ser. No. 612,186. Turpentine & Rosin Factors, Inc., Savannah, Ga. Filed Apr. 3, 1951.

Tandrotine

For Mineral Spirits Thinner.
Claims use since December 1946.

Ser. No. 618,433. Badische Anilin- & Soda-Fabrik (I. G. Farbenindustrie Aktiengesellschaft "In Auflösung"), Ludwigshafen-on-the-Rhine, Germany. Filed Aug. 2, 1951.

Palanthren

For Dyestuffs.
Claims use since Apr. 20, 1951; and in use in commerce between Germany and the United States since Apr. 20, 1951.

Ser. No. 621,718. Chester C. Irving, doing business as Chester Chemical Company, St. Petersburg Beach, Fla. Filed Nov. 27, 1951.

DI-GAS

The word "Gas" is disclaimed.
For Mildew Retardant.
Claims use since May 2, 1951.

Ser. No. 622,420. Ward Blenkinsop & Company Limited, London, England. Filed Dec. 12, 1951.

AGRIMAX

Applicant claims ownership of British Registration No. 695,513, dated Jan. 23, 1951.
For Seed Dressings.

Ser. No. 624,621. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 6, 1952.

WESTADYNE

Applicant claims ownership of Registrations Nos. 382,333 and 552,317.
For Disinfectant for Washroom Sanitation Purposes.
Claims use since Dec. 14, 1951.

Ser. No. 628,383. American Chemical Paint Company, Ambler, Pa. Filed Apr. 21, 1952.

WEEDONE 48

Applicant claims ownership of Registrations Nos. 420,202, 438,503, and 521,503.
For Chemical Preparations Useful in Eradicating Weeds.
Claims use since Dec. 22, 1947.

Ser. No. 628,384. American Chemical Paint Company, Ambler, Pa. Filed Apr. 21, 1952.

WEEDONE 32

Applicant claims ownership of Registrations Nos. 420,202, 438,503, and 521,503.
For Chemical Preparations Useful in Eradicating Weeds.
Claims use since Feb. 14, 1949.

Ser. No. 628,385. American Chemical Paint Company, Ambler, Pa. Filed Apr. 21, 1952.

WEEDAR MCP

Applicant claims ownership of Registrations Nos. 420,202, 503,055, and others.
For Chemical Preparations Useful in Eradicating Weeds.
Claims use since Apr. 20, 1951.

Ser. No. 628,386. American Chemical Paint Company, Ambler, Pa. Filed Apr. 21, 1952.

WEEDAR 64

Applicant claims ownership of Registrations Nos. 420,202, 438,503, 503,055, and 521,503.
For Chemical Preparations Useful in Eradicating Weeds.
Claims use since Jan. 15, 1948.

Ser. No. 628,387. American Chemical Paint Company, Ambler, Pa. Filed Apr. 21, 1952.

WEEDAR MCP 60

Applicant claims ownership of Registrations Nos. 420,202, 438,503, and others.
For Chemical Preparations Useful in Eradicating Weeds.
Claims use since Feb. 2, 1952.

Ser. No. 628,605. American Cyanamid Company, New York, N. Y. Filed Apr. 24, 1952.

CYFOR

For Rosin Size.
Claims use since Apr. 7, 1952.

Ser. No. 628,766. The Lambert Company, doing business as John Hudson Moore Co., Jersey City, N. J., and New York, N. Y. Filed Apr. 26, 1952.

H 52

For Hexachlorophene.
Claims use since Apr. 18, 1952.

CLASS 15

OILS AND GREASES

Ser. No. 614,908. Southwest Grease & Oil Co., Inc., also doing business under the name Dealers Refining Company, Wichita, Kans. Filed June 7, 1951.



The term "Trac-Tr" is disclaimed. Applicant claims ownership of Registration No. 526,481.
For Multi-Purpose Lubricant.
Claims use since May 18, 1951.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 592,771. Master Bronze Powder Company, Hammond, Ind. Filed Feb. 20, 1950.

Derusto

For Protective Coatings for New and Rusted Metal Surfaces.
Claims use since Feb. 7, 1950.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 562,047. George W. Helme Company, New York, N. Y. Filed July 23, 1948.

SQUARE

For Snuff.
Claims use since 1900.

Ser. No. 562,049. George W. Helme Company, New York, N. Y. Filed July 23, 1948.

SUN

For Snuff.
Claims use since 1906.

Ser. No. 608,892. Parodi Cigar Company of New York, Scranton, Pa. Filed Jan. 17, 1951. (Sec. 2f.)

PARODI

Applicant claims ownership of Registrations Nos. 113,423, 297,638, and others.
For Cigars, Cigarettes, and Smoking Tobacco.
Claims use since 1915.

Ser. No. 621,325. Peter Meltzer, doing business under the name and style of Hampden Candy & Tobacco Company, Springfield, Mass. Filed Nov. 16, 1951.

PETE'S SPECIAL CIGAR

The words "Special Cigar" are disclaimed.
For Cigars.
Claims use since July 26, 1951.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 571,490. Humberto Machado y Compania, Habana, Cuba, assignor to Tarmac Products, Inc., New York, N. Y., a corporation of New York. Filed Dec. 28, 1948.



The word "Asma" is disclaimed. The drawing is lined for shading. Color is not claimed, nor is the outline of a

label, panel, or wrapper. Applicant claims ownership of Cuban Registration No. 64,791, dated Feb. 4, 1943.

For Medicinal Preparation Indicated in and for the Relief of the Paroxysms of Asthma.

Claims use since August 1941 in Cuba; and since May 19, 1943, in commerce between Cuba and the United States.

Ser. No. 583,055. Schwarz Laboratories, Inc., New York, N. Y. Filed Aug. 5, 1949.

LYCEDAN

For Adenosine-5-Phosphoric Acid for Therapeutic Uses.
Claims use since July 22, 1949.

Ser. No. 595,413. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Apr. 7, 1950.

ULMTABS "ULMER"

The surname "Ulmer" is disclaimed. The drawing is lined for red. Applicant claims ownership of Registration No. 306,646.

For Medical Preparation—Namely, a Vitamin and Mineral Supplement to the Prenatal Care of Expectant Mothers.

Claims use since Mar. 6, 1950.

Ser. No. 598,043. William Rubensohn, Sydney, New South Wales, Australia. Filed May 24, 1950.

Yeasta-Cola

The word "Cola" is disclaimed. Applicant claims ownership of Australian Registration No. 85,780, dated Jan. 16, 1946.

For Effervescent Medical Tonic Containing Yeast.

Ser. No. 600,512. Schenley Laboratories, Inc., New York, N. Y. Filed July 11, 1950.

AQUACILLIN-A.S.

Applicant claims ownership of Registrations Nos. 530,226 and 527,867.

For Pharmaceutical Preparations Containing Penicillin for Intramuscular Injection.

Claims use since Jan. 13, 1950.

Ser. No. 603,328. Harry W. Wheeler, Charlottesville, Va. Filed Aug. 2, 1950.

"AMMORINSE"

For Ammoniated Mouth Wash and Gargle.
Claims use since Aug. 2, 1950.

Ser. No. 605,238. Rhoda Soltanoff, Brooklyn, N. Y. Filed Oct. 20, 1950.



The words "The Key to Your Dog's Health" are disclaimed.

For Mineral Tablets for Dogs.
Claims use since June 29, 1950.

Ser. No. 607,750. Food, Incorporated, doing business as Carlton Products Co., Cambridge, Mass. Filed Dec. 16, 1950.

"IODAY"

For Kelp Tablets Used as a Dietary Supplement.
Claims use since Nov. 18, 1950.

Ser. No. 608,075. Mite-E Co., Inc., Ogden, Utah. Filed Dec. 26, 1950.

DENTAFLUOR

For Sodium Fluoride Solution for Reducing Dental Decay.
Claims use since July 18, 1950.

Ser. No. 608,188. Dr. Salsbury's Laboratories, Charles City, Iowa. Filed Dec. 23, 1950.

Nicmix

Applicant claims ownership of Registration No. 351,617.

For Veterinary Preparations for Internal Use, Particularly, Worm Removing Remedies for Use in Poultry and Livestock.

Claims use since Oct. 23, 1950.

Ser. No. 609,609. E. R. Squibb & Sons, New York, N. Y. Filed Feb. 3, 1951.

KELOSONE

For Hormonal Preparations in the Treatment of Rheumatoid Arthritis.
Claims use since Nov. 30, 1949.

Ser. No. 610,762. Rudds Prescription Chemists, Cleveland, Ohio. Filed Mar. 2, 1951.

LESIN

For Medicinal Dietary Food Supplement.
Claims use since Nov. 15, 1950.

Ser. No. 611,602. F. de Vicente y Compañia, S. R. C., Madrid, Spain. Filed Mar. 21, 1951.

DIGESTONICO
DR. VICENTE

The term "Dr. Vincent" is disclaimed. Applicant claims ownership of Spanish application filed Oct. 31, 1908, Reg. No. 15,493, dated July 6, 1909, and renewed on July 20, 1929, and Feb. 8, 1949.

For Medicine for Gastric and Intestinal Disorders Such as Dyspepsia, Hyperchlorhydria, Gastralgia, Gastroduodenal Ulcers, and Diarrhea.

Ser. No. 613,938. Makers of Kal, Inc., Los Angeles, Calif. Filed May 16, 1951.

Mallo

For Fluorine, Calcium, Phosphorus, and Vitamin Preparation.
Claims use since Aug. 5, 1946.

Ser. No. 614,144. Hark Pharmacal Co., New York, N. Y. Filed May 21, 1951.

ZēBAN

For Medical and Pharmaceutical Ointment.
Claims use since Apr. 30, 1951.

Ser. No. 615,178. Haverstick Corporation, St. Louis, Mo. Filed June 14, 1951.

Denthol

For Antiseptic Solution for Use as a Mouth Wash, Gargle, or Mouth Spray.
Claims use since Sept. 7, 1904.

Ser. No. 616,045. Norgine Laboratories, Inc., New York, N. Y. Filed July 3, 1951.

LIQUIBARINE

For Medicinal Preparation in the Nature of an Opaque Medium Used for X-Ray Diagnosis of the Gastro-Intestinal Tract.
Claims use since June 7, 1951.

Ser. No. 618,811. S. B. Penick & Company, New York, N. Y. Filed Sept. 14, 1951.

VERABORE

For Bulk Special Amorphous Alkaloids of Veratrum Viride Used in the Treatment of Hypertension.
Claims use since Aug. 7, 1951.

Ser. No. 619,902. Tablax Company, New York, N. Y. Filed Oct. 11, 1951.

Cardiojel

For Non-Medicinal Jellylike Coating for Use in Electro Cardiography, Encephalography and Shock Therapy To Provide a Non-Slip Outer Surface on Selected Portions of the Human Body to Which Any Type of Electrocardiograph and Direct Contact Electrodes Are To Be Applied.
Claims use since Aug. 16, 1951.

Ser. No. 621,287. Pure Drug and Chemical Corp., New York, N. Y. Filed Nov. 15, 1951.

NO-IF

For Preparation for the Treatment of Athlete's Foot.
Claims use since Feb. 21, 1951.

Ser. No. 624,423. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Feb. 1, 1952.

SUSPENCILINA

Applicant claims ownership of Registration No. 535,399.
For Antibiotic Preparation.
Claims use since Dec. 6, 1950.

Ser. No. 624,492. Koutsos Bros., San Francisco, Calif. Filed Feb. 4, 1952.

KO. BRO.

For Medicated Ointment Indicated for Temporary Relief of Irritation or Itching Due to Simple Piles.
Claims use since Dec. 17, 1951.

Ser. No. 624,669. Wyeth Incorporated, Philadelphia, Pa. Filed Feb. 7, 1952.

TRIBIOTIC

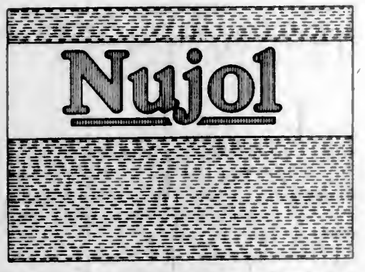
For Penicillin - Dihydrostreptomycin - Bacitracin Ointment.
Claims use since Jan. 22, 1952.

Ser. No. 624,673. Ayerst, McKenna & Harrison Limited, Rouses Point and New York, N. Y. Filed Feb. 8, 1952.

MEDIATRIC

For Hormone Vitamin Compound in Dosage Form.
Claims use since Jan. 31, 1952.

Ser. No. 624,682. Esso Standard Oil Company, Wilmington, Del., and New York, N. Y. Filed Feb. 8, 1952.



The drawing is lined for the colors red and gray. Applicant claims ownership of Registrations Nos. 186,080, 188,858, and others.

For Mineral Oil for Medicinal and Pharmaceutical Purposes.

Claims use since Oct. 24, 1951.

Ser. No. 625,038. Schering Corporation, Bloomfield, N. J. Filed Feb. 15, 1952.

ANGOVIS

For Pharmaceutical Preparation for the Treatment of Vascular Conditions.

Claims use since Nov. 28, 1951.

Ser. No. 625,039. Schering Corporation, Bloomfield, N. J. Filed Feb. 15, 1952.

POLIDON

For Pharmaceutical Preparation for Use as a Blood Detoxifyer.

Claims use since Nov. 16, 1951.

Ser. No. 625,040. Schering Corporation, Bloomfield, N. J. Filed Feb. 15, 1952.

PROPLASVAL

For Pharmaceutical Preparation for Use as a Plasma Substitute.

Claims use since Nov. 16, 1951.

Ser. No. 625,041. Schering Corporation, Bloomfield, N. J. Filed Feb. 15, 1952.

ZELAD

For Pharmaceutical Preparation for the Treatment of Vascular Conditions.

Claims use since Nov. 29, 1951.

Ser. No. 625,050. The Upjohn Company, Kalamazoo, Mich. Filed Feb. 15, 1952.

Amebex

For Antibiotic for Treatment of Infectious Diseases.

Claims use since Jan. 9, 1952.

Ser. No. 625,079. Pharmaceuticals, Inc., Newark, N. J. Filed Feb. 16, 1952.

Chlorofem

For Tablets for the Relief of Functional Menstrual Pain and Discomfort and Body Deodorant.

Claims use since Jan. 18, 1952.

Ser. No. 625,279. Kordol Corporation of America, New York, N. Y. Filed Feb. 20, 1952.

ACKET

For Tablets for the Relief of Pains From Arthritis, Rheumatism, Sciatica, Muscular Aches, Bursitis, Neuritis, and Neuralgia.

Claims use since Sept. 15, 1951.

Ser. No. 626,538. Schieffelin & Co., New York, N. Y. Filed Mar. 15, 1952.

TREVYL

For Antispasmodic and Anticholinergic, in Tablet Form.

Claims use since on or about Jan. 15, 1952.

Ser. No. 627,965. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

EUPHASED

For Pharmaceutical Products for Use in Minor Emotional Disturbances, Particularly in the Management of Depressive and Anxiety States and in the Treatment of Obesity.

Claims use since Aug. 29, 1951.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 586,886. Société Nouvelle de Construction de Machines-Outils et d'Outillage, Procedes C W B, Paris, France. Filed Oct. 26, 1949.

CWB

Applicant claims ownership of French Registration No. 380,104, dated Sept. 4, 1947.

For Electrical Control Systems for Speed Regulation and Starting and Stopping of Machine Tools, Comprised of Electric Motors, Wiring Circuits, Relays, Switches, and Appurtenant Electrical Apparatus and Accessories.

Ser. No. 605,769. S. Smith and Sons (England) Limited, London, England. Filed Nov. 1, 1950. (Sec. 2f.)

SMITHS

Applicant claims ownership of British Registration No. 638,830, dated July 24, 1945.

For Electric Devices—Namely, Warning Lights Being Instrument Panel Indicators, Traffic Signal Lights; Magnetos; Electric Batteries; Lamps for Vehicles; Hand Lamps; Lamp Brackets; and Electric Horns.

Claims use since March 1927; and use in commerce between Great Britain and the United States since March 1927.

Ser. No. 611,810. Prescolite Manufacturing Corporation, Berkeley, Calif. Filed Mar. 26, 1951.

Stylite

For Electric Lighting Fixtures—Namely, Lamps.

Claims use since Dec. 1, 1950.

Ser. No. 612,480. Anaconda Wire and Cable Company, New York, N. Y. Filed Apr. 11, 1951.

LAMIVAR

For Electric Wires.

Claims use since Mar. 20, 1951.

Ser. No. 613,551. Aircraft-Marine Products Inc., Harrisburg, Pa. Filed May 5, 1951.

AMP-SULATION

Applicant claims ownership of Registrations Nos. 405,714, 515,577, and others.

For Insulated Electrical Connections and Leads.

Claims use since June 2, 1949.

Ser. No. 615,780. K. L. G. Sparking Plugs Limited, London, England. Filed June 27, 1951.

K·L·G

Applicant claims ownership of British Registration No. 522,845, dated May 15, 1931, and United States Registration No. 290,606.

For Spark Plugs and Parts Thereof, All Being Goods Made Wholly or Principally of Ordinary Metal.

Ser. No. 616,741. U. S. Manufacturing Corporation, Decatur, Ill. Filed July 20, 1951.

POPPIN' PETE

The word "Poppin" is disclaimed.

For Electric Corn Poppers for Use Both Domestically and Commercially.

Claims use since May 14, 1951.

Ser. No. 618,197. Kaye-Halbert Corporation, Culver City, Calif. Filed Aug. 27, 1951.

Harry K.

For Television Receiving Sets.

Claims use since February 1950.

Ser. No. 618,730. Burgess Battery Company, Freeport, Ill. Filed Sept. 13, 1951.

Rangefinder

For Electric Flashlights.

Claims use since August 1936.

Ser. No. 619,214. Smith & Frank Company, New York, N. Y. Filed Sept. 25, 1951.



For Television Receiving Sets and Radio Receiving Sets.

Claims use since July 20, 1951.

Ser. No. 620,856. Petroleum Heat and Power Company, Stamford, Conn., assignor to Pittston Oil Company, Inc., New York, N. Y., a corporation of New York. Filed Nov. 3, 1951.

PETRO

Applicant claims ownership of Registrations Nos. 214,358, 231,207, and others.

For Electric Blowers, Electric Fans, Electric Motors, Transformers, Electric Oil Preheaters, and Electrically Operated Valves.

Claims use since Mar. 3, 1926.

Ser. No. 621,806. Blackhawk Industries, Dubuque, Iowa. Filed Nov. 29, 1951.



The word "Industries" is disclaimed.

For Electrical Installation Fittings—Namely, Cable Fittings, Sill Plates, Cable Connectors, Box Supports, Cable Straps, Cable Staples, Conduit Straps, Conduit Locknuts, Conduit Bushings, Service Entrance Caps, Wireholders, and Yard Light Fixtures.

Claims use since Nov. 30, 1950.

Ser. No. 621,823. Heinemann Electric Company, Trenton, N. J. Filed Nov. 29, 1951.

SILIC-O-NETIC

For Time Delay Relay Mechanisms Used in Electrical and Electronic Circuits for Opening and/or Closing One or More Circuits a Predetermined Timed Interval After the Cessation or Initiation of a Predetermined Current Flow.

Claims use since Oct. 16, 1951.

Ser. No. 622,772. Clarostat Mfg. Co., Inc., Dover, N. H. Filed Dec. 22, 1951.

GREENOHM JR.

Applicant claims ownership of Registrations Nos. 430,309 and 518,371.

For Fixed Resistors.

Claims use since on or about 1947.

Ser. No. 624,943. Genuine Parts Company, Atlanta, Ga. Filed Feb. 14, 1952.

CHEROKEE

For Rebuilt Automotive Armatures, Starters, and Generators.

Claims use since May 1, 1951.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 602,102. Micro-Lite Company, Inc., New York, N. Y. Filed Aug. 11, 1950.

COWBOY JIM'

The word "Cowboy" is disclaimed.

For Toy Novelty Pin Light.

Claims use since June 2, 1950.

Ser. No. 616,288. Gentner Tackle Co., Garfield, N. J. Filed July 10, 1951.



The representation of the goods and the word "Good" are disclaimed.

For Artificial Fishing Lures.

Claims use since Jan. 13, 1950.

Ser. No. 619,224. Arctic Fisherman Company, Beaver Dam, Wis. Filed Sept. 26, 1951.

THE ARCTIC FISHERMAN

The word "Fisherman" is disclaimed.

For Ice Fishing Tip Ups.

Claims use since Sept. 28, 1948.

Ser. No. 623,164. Silver Rich Corporation, Long Island City, N. Y. Filed Jan. 3, 1952.

COLONEL JET

The figure shown in the drawing is fanciful.

For Game Consisting of a Playing Field Having Marked Areas and Played With Pieces Movable From One Area to the Other.

Claims use since Nov. 1, 1951.

Ser. No. 625,643. United Crayon Co. Inc., Brooklyn, N. Y. Filed Feb. 27, 1952.

UNICO

For Water Color Sets Designed for Children's Use and Consisting of a Plurality of Differently Colored Water Color Masses Cemented in Spaced Relation in a Row on a Stiff Piece of Cardboard.

Claims use since November 1949.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 582,215. A. B. Dick Company, Chicago, Ill. Filed July 20, 1949. (Sec. 2f—Additional evidence.)

A·B·Dick

Applicant claims ownership of Registrations Nos. 541,993, 548,951, and 554,177.

For Mimeographs and Parts Thereof.

Claims use since May 7, 1948.

Ser. No. 584,148. Pacific Airmotive Corporation, Burbank, Calif. Filed Aug. 27, 1949.

PAC

Applicant claims ownership of Registrations Nos. 436,601, 436,602, and others.

For Servicing and Maintenance Tools and Equipment—Namely, Oil Sprayers, Engine Stands, Lapping Tools, Sanding Adaptors for Holding and Positioning Propeller Blades To Effect Grinding, Polishing, Checking, and General Repairs Thereon, Propeller Jacks, Assembly Posts, Grinding and Polishing Fixtures, Head Stocks and Thread Protectors for Enveloping and Protecting Threaded Shafts.

Claims use since Feb. 8, 1944.

Ser. No. 585,731. John Gray Johnston, Culver City, Calif. Filed Oct. 3, 1949.

SPORTONE

For Mufflers and Silencers for Quieting Noises at Exhausts and Intakes of Internal Combustion Engines.

Claims use since Mar. 1, 1949.

Ser. No. 588,137. Ellwyn C. Kroeger, doing business under the name and style of Le Claire Manufacturing Co., Le Claire, Iowa. Filed Nov. 21, 1949.

H-D Handy Dandy

The word "Handy" is disclaimed.

For Power Lawn Mowers; Power Garden Cultivators; Weed Cutting and Snow Plow Attachments for Power Mowers and Cultivators; and Apparatus for Converting Hand Mowers to Power Mowers, Consisting of an Engine Supporting Platform, Gears, Chain and Attaching Elements as Required for Such Conversion.

Claims use since on or about August 1945.

Ser. No. 590,438. Byron Jackson Co., Los Angeles, Calif. Filed Jan. 6, 1950. (Sec. 2f.)

PATTERSON-BALLAGH

For Well Tools—Namely, Casing Protectors, Drill Pipe Protectors, Tubing Protectors, Sucker Rod Protectors, Drill Pipe Stabilizers, Kelly Sub Stabilizers, Apparatus for Installing and Removing Casing Protectors, Drill Pipe Protectors and Kelly Sub Stabilizers, Thread Protectors, Pipe Wipers, Kelly Wipers, Sucker Rod Wipers, Wire Line Wipers, Tubing Wipers, Wire Line Guides, Dead-Line Stabilizers, Swivel Ball Bumpers, Elevator Link Bumpers, Travelling Block Bumpers, Crown Block Bumpers, Mud Guns, Swabs and Well Seals—Namely, Annular Covers on Well Casing Used Temporarily To Prevent Articles From Falling Into the Well Annulus During Casing Running, and Parts Therefor.

Claims use since on or about Jan. 1, 1927.

Ser. No. 591,049. Rolls Razor, Inc., New York, N. Y. Filed Jan. 18, 1950. (Sec. 2f.)



The word "Razor" is disclaimed. Applicant claims ownership of Registrations Nos. 265,629, 269,370, and others.

For Safety Razors, a Combination of a Safety Apparatus for Honing and Stropping Razors, Sold as a Unit, and Replacement Parts Thereof—Namely, Razor Handles, Friction Clips and Pins, and Razor Blades.

Claims use since Apr. 1, 1922.

Ser. No. 594,731. Schweizerische Werkzeug-Industrie-gesellschaft Gebr. Levailliant, Basel, Switzerland. Filed Mar. 27, 1950.

NOXON

Applicant claims ownership of Swiss Registration No. 108,930, dated Dec. 2, 1944.

For Hand Tools—Namely, Metal Saws, Circular Saws, and Blades for Such Saws; Pliers; Pincers; Needle-Files; Precision Files; Small Cutters; Taps and Drills; Twist Drills and Broaches; and Watch-Maker's Tools—Namely, Piercing Saws, Needle Files, Tweezers, Five-Sided Broaches, and Watch Oilers—Namely, a Pencil-Like Hand Tool With a Fine Point To Be Dipped in Oil and Applied by Touch to Part To Be Oiled.

Claims use since Feb. 1, 1950; and first used in commerce between foreign nations and the United States on Feb. 1, 1950.

Ser. No. 601,652. Fred E. Williamson, doing business as The Aerocrafters, Chicago, Ill. Filed Aug. 2, 1950.

DYNA-JET

The term "Jet" is disclaimed.

For Fuel Injection Apparatus for Internal Combustion Engines Having Carburetors To Improve the Operating Efficiency Thereof.

Claims use since Mar. 10, 1950.

Ser. No. 606,092. United Implements, Inc., Lexington, Ohio. Filed Nov. 8, 1950. (Sec. 2f.)

The Temple-TON

The word "Ton" is disclaimed.

For Farm Implements—Namely, Hydraulic Lifts, Manure Spreaders, and Harrows.

Claims use since May 1945.

Ser. No. 606,423. Globe Machine Company, Philadelphia, Pa. Filed Nov. 15, 1950.

DELCO

For Sewing Machine Heads.

Claims use since May 1, 1950.

Ser. No. 608,288. The Salvajor Co., Kansas City, Mo. Filed Jan. 2, 1951.

Salv-O-Mat

Applicant claims ownership of Registration No. 415,198.

For Empty Bottle Conveying and Racking System for Use in Bars, Taverns, Restaurants, and Hotels for Disposing the Bottles From the Bar by Means of a Tube Chute Conveyor With Feed-In Box With Spring Closing Door Through Which the Bottles Slide by Gravity Force Into Storage Shelves in Basement, and Parts Thereof.

Claims use since July 7, 1950.

Ser. No. 614,389. Columbian Cutlery Company, Reading, Pa. Filed May 5, 1951.



Applicant claims ownership of Registration No. 68,381.

For Sheep Shears, Hedge Shears, Grass Shears, Pruning Shears, Grass Hooks, and Scythes.

Claims use since on or about Oct. 1, 1907.

Ser. No. 614,541. A. B. Dick Company, Chicago, Ill. Filed May 31, 1951. (Sec. 2f—Additional evidence.)

A·B·DICK

Applicant claims ownership of Registrations Nos. 541,993, 548,951, and 554,177.

For Folding Machines (a Device for Fitting Successive Sheets of Unfolded Paper Stock Into a Mechanism Which Automatically Folds the Paper to a Predetermined Pattern Selected by the Operator and Stacks the Folded Paper for Removal by the Operator).

Claims use since June 1, 1950.

Ser. No. 614,571. Rival Manufacturing Company, Kansas City, Mo. Filed May 31, 1951.

Grind-O-Mat

The word "Grind" is disclaimed. Applicant claims ownership of Registration No. 346,876.

For Hand-Operated Food Grinders.

Claims use since June 1950.

Ser. No. 615,277. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed June 16, 1951.

Simplex INNER-SEAL

The words "Inner Seal" are disclaimed. Applicant claims ownership of Registration No. 538,120.

For Hand-Operated Compression Sprayers, for Use in Applying Insecticides, Pesticides, Agricultural Chemicals, Whitewash, and Cold Water Paint.

Claims use since Apr. 30, 1949, as to the mark shown; and since Dec. 31, 1917, as to the mark "Simplex."

Ser. No. 615,752. Belf & Lustig, New York, N. Y. Filed June 27, 1951.

ALLIED

For Hand and Machine Tools—Namely, Files, Drill Bits, Trowels, Screwdrivers, Pliers, Wrenches, Chisels, Punches, Saws, Snips and Shears, Scrapers, Hammers, Taps, and Dies.

Claims use since June 19, 1949.

Ser. No. 615,778. Gordon Johnson Company, Kansas City, Mo. Filed June 27, 1951.

ROTO-LINE

The word "Line" is disclaimed.

For Poultry Picking, and Eviscerating Machines and Parts Thereof.

Claims use since June 1, 1951.

Ser. No. 616,046. Omes Limited, London, England. Filed July 3, 1951.

OMES

Applicant claims ownership of British Registration No. 688,672, dated May 1, 1950.

For Machines for Producing Metal Forgings Wherein That Portion of the Metal Stock To Be Forged Is Heated Electrically; and Parts of Such Machines.

Ser. No. 616,116. National Tank Company, Tulsa, Okla. Filed July 5, 1951.

It's a National

Applicant claims ownership of Registration No. 270,334.

For Equipment Particularly Adapted for Use in Oil and Gas Fields—Namely, Oil and Gas Separators of the Baffle Type; Water Knock-Out Tanks With Internal Baffles for Oil and Water Separation; Water Disposal Systems Sold as a Unit and Including Vessels for Separating Water From Oil Well Fluids, Water Conditioning Tanks, Water Accumulating Tanks, and Necessary Piping for Connecting the Units of the System; Fractionating Towers; Chemical Pumps; High Pressure Distillate and Gas Separators for Use on High Pressure Well Streams Having High Gas and Oil Ratios; Gas Scrubbers of the Wet and Dry Types; and Oil and Sand Separators of the Baffle Type.

Claims use since 1928.

Ser. No. 617,927. Original Vincent & Joseph, Inc., Philadelphia, Pa. Filed Aug. 21, 1951.

Thinsors

For Scissors for Thinning and Cutting Hair.

Claims use since Dec. 2, 1949.

Ser. No. 618,990. Societe le Carbone Lorraine, Paris, France. Filed Sept. 19, 1951.

Applicant claims ownership of French Registration No. 317,857, dated Dec. 8, 1937.

For Carbon Thrust Rings and Other Self-Lubricating Rings Used in Mechanical Clutches or Devices To Replace Other Bearings Commonly Used To Receive Longitudinal Thrust, Hard Metal Dies and Matrices, and Hard Metal Linings for Ploughshares.

Ser. No. 619,117. Jervis B. Webb Company, Detroit, Mich. Filed Sept. 21, 1951.

TOWVEYOR

For Sub-Floor Conveyor Installations Comprising Conveyors and Parts Thereof, Including Floor-Supported Carriers.

Claims use since Apr. 11, 1951.

Ser. No. 619,197. Herold Manufacturing Co., Not Inc., Chicago, Ill. Filed Sept. 25, 1951.

GLOBE

For Electric Razors.

Claims use since Aug. 1, 1951.

Ser. No. 619,363. Ritter Company, Inc., Rochester, N. Y. Filed Sept. 28, 1951.



Applicant claims ownership of Registrations Nos. 263,821 and 263,822.

For Air Compressors and Pumps Therefor.

Claims use since in or about September 1949.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 623,152. Samuel M. McKendree, doing business as Mar-Mak Rug Machinery Manufacturing Co., Danville, Ill. Filed Jan. 3, 1952.

MAR-MAK

For Dry Cleaning Machine for Cleaning Rugs.

Claims use since Dec. 8, 1951.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 595,783. Hewlett-Packard Company, Palo Alto, Calif. Filed Apr. 15, 1950.

hp

Applicant claims ownership of Registrations Nos. 399,314 and 399,733.

For Electrical Apparatus—Namely, Audio Signal Generators, Square Wave Generators, and Signal Generators.

Claims use since January 1946.

Ser. No. 622,126. Clifton R. Skinner, doing business as a sole proprietorship known as C. R. Skinner, San Francisco, Calif. Filed Dec. 5, 1951.

Canon

For Photographic Equipment—Namely, Cameras, Camera Lenses, Magnifying Lenses, View Finders, Range Finders, Combined Rangefinder and Viewfinder, Erect-Image Finders; Exposure Meters, Flash Units and Parts Thereof; Photographic Accessories—Namely, Mechanical Sports Finders, Flash Synchronizers, Close-Up Lens Mounts, Camera Mounting Frames Known as Camera Holders, Cable Releases, Film Magazines, Film Take-Up Spools, Lens Caps, Developing Tanks, Lens Hoods, Light Filters, and Circuit Testers for Flash Guns and Bulbs Therefor; and Cases Therefor.

Claims use since July 29, 1948.

Ser. No. 624,294. The Pure Oil Company, Chicago, Ill. Filed Jan. 30, 1952.

PURE

For Kits Containing a Battery Hydrometer and a Battery Filler.

Claims use since November 1941.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 619,023. G. B. Kent & Sons Limited, London, England. Filed Sept. 20, 1951.

PEDIGREE

Applicant claims ownership of British Registration No. 542,235, dated June 13, 1933.

For Toothbrushes.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 610,029. Refrigerative Supply, Inc., Seattle, Wash. Filed Feb. 13, 1951.

POLARIS

For Household Refrigerators, Home Freezers, Frozen Food Display Cabinets, Commercial Reach-In Refrigerators, Plural Temperature Refrigerators, Ice Cube Makers, Refrigerated Soda Fountains, Refrigerated Beer Cabinets, Sectional Walk-In Coolers, Reach-In Doors and Walk-In Doors for Refrigerated Cabinets, Trailer Refrigerators, Bottle Coolers, Refrigerated Dough Retarders, Refrigerated Vegetable Display Cases, Refrigerated Meat Display Cases, Refrigerated Florists Cases, Refrigerated Dairy Cases, Refrigerated Extensible Cases, Ice Cream Cabinets, Refrigeration Coils, Refrigeration Compressors, Frozen Food Display Cabinets, and Automatic Defrosting Units for Refrigerators.

Claims use since Feb. 3, 1947.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 536,421. National Furniture Manufacturing Company, Inc., Evansville, Ind. Filed Oct. 1, 1947.

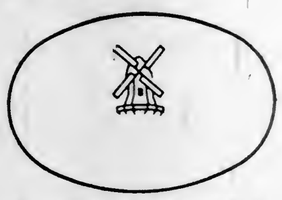


The words "The," "Furniture," "Mfg." and "Co." are disclaimed.

For Chairs, "Standard" Upholstered Living Room Chairs, Rocking Chairs, "Platform Rockers," Overstuffed Chairs, Reclining Chairs, Arm Chairs, Occasional Chairs, and Other Household Chairs.

Claims use since about Jan. 1, 1925.

Ser. No. 541,595. John E. Sjöström Company, Philadelphia, Pa. Filed Nov. 18, 1947.



For School Furniture, More Particularly Consisting of Classroom Tables, Art Tables, Cafeteria Tables and Benches, Display and Storage Cabinets, Home Economics Tables and Counters, Full Length Standing and Wall Mirrors, Lecturns, Trophy Cases, Classroom Chairs and Stools, Model Display Stands, Kindergarten Tables and Chairs, Kindergarten Cabinets, Kindergarten Chests, Sewing Room Tables, Ironing Boards and Cabinets Combined, Fitting Stands, Domestic Science Tables, Kitchen Cabinets, Glue Pot Shelves, Service Tables, Cashier's Desks, Domestic Art Storage Cases, Clothing Cases, Domestic Science Storage Cases, Locker Cases, Drawer Cases, Note Book Cases, Skeleton Cases, Lantern Stands, Tablet Arm Chairs; Laboratory Furniture, More Particularly Consisting of Drawing Instructor's Filing Cases, Storage Cases and Cabinets, Chairs and Stools, Physics Apparatus Cases, Chemical and Apparatus Storage Cases, Microscope Display Cases, Apparatus and Supply Tables, Movable Laboratory Cabinets, Balance Shelves, Stools, Laboratory Cabinet Bases, Utility Tables, Laboratory Reagent Shelves; Library Furniture, More Particularly Consisting of Library Tables, Chairs, Charging Desks, Shelving, Card Catalogue Cases, Bookcases, Dictionary Stands, Catalogue Drawers, Library Stools, Efficiency Desks, Library Display Racks, Library Exhibit Cases, Museum Display Cases, Juvenile Desk and Bench Combinations, Newspaper Racks, Periodical Racks, Filing Cases, Card Trays, Wheel Chair Reading Tables, Hospital Reading Tables; and Architectural and Industrial Furniture, More Particularly Consisting of Counters, Bookcases, Shelves, Benches, Post Office Routing Cases, Post Office Cash Cabinets, Post Office Stamp Cabinets, Post Office Movable Partition Screens, Reading Stands, Umbrella Stands, Telephone Stands, Costumers, Wardrobe Cabinets, Commercial Tables, Bookkeeping Tables, Typewriter Tables, Typewriter Desks, Cabinets, Storage Cases, Key Cabinets, Cleaning Utensils Cases, Chairs, Stenographers' Chairs and Desks.

Claims use since 1916.

Ser. No. 559,848. The Lane Company, Inc., Altavista, Va. Filed June 21, 1948. (Sec. 2f.)

THE GIFT THAT STARTS THE HOME

For Cedar Chests.

Claims use since 1933.

Ser. No. 570,700. Empire Case Goods, Jamestown, N. Y. Filed Dec. 17, 1948.



For Bedroom Furniture—Namely, Dresser, Double Dresser, Vanity, Vanity Bench, Bed, Night Table, Chest, Chest on Chest.

Claims use since Oct. 16, 1948.

Ser. No. 584,118. Gilton Manufacturing Corporation, Brooklyn, N. Y. Filed Aug. 27, 1949.

CHROME CREST

The word "Chrome" is disclaimed.

For Tubular Chairs, Stools, Portable Towel Racks, Bath Stools, and Portable Shoe Racks.

Claims use since Nov. 20, 1947.

Ser. No. 603,661. Alfred Z. Boyajian, doing business as Foldmaster Company, Farmingdale, N. Y. Filed Sept. 18, 1950.

FOLDMASTER

For Collapsible Baby Chairs.

Claims use since Apr. 26, 1949.

Ser. No. 613,078. Wm. J. Mahoney, trading and doing business under the name of The Stratosphere Mattress Service, Rapid City, S. Dak. Filed Apr. 24, 1951.

STRATOSPHERE

For Mattresses.

Claims use since Dec. 9, 1935.

CLASS 33

GLASSWARE

Ser. No. 625,507. Max A. Weisbrot, doing business as The Weico Company, Chicago, Ill. Filed Feb. 25, 1952.

Golden Girl

For Glass Carafes.

Claims use since Jan. 14, 1952.

Ser. No. 625,508. Max A. Weisbrot, doing business as The Weico Company, Chicago, Ill. Filed Feb. 25, 1952.

HOLIDAY

For Glass Carafes.

Claims use since May 21, 1951.

Ser. No. 625,509. Max A. Weisbrot, doing business as The Weico Company, Chicago, Ill. Filed Feb. 25, 1952.

SILVER LADY

For Glass Carafes.

Claims use since Jan. 6, 1950.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 620,316. McQuay, Inc., Minneapolis, Minn. Filed Oct. 22, 1951.



For Central-Station Air Conditioning Units for Conditioning the Air in Remote Rooms.

Claims use since Apr. 23, 1948.

Ser. No. 624,220. S. Bernstein, Inc., Newark, N. J. Filed Jan. 29, 1952.

Zorach

For Gas Ranges, Gas Heaters, and Gas Stoves.

Claims use since Jan. 7, 1952.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 572,896. The General Tire & Rubber Company, Akron, Ohio. Filed Jan. 27, 1949. (Sec. 2f as to "India.")

INDIA

Applicant claims ownership of Registrations Nos. 146,648, 148,086, 249,655, and 299,758.

For Tube Repair Kit, Combination Tube Repair Gum Used To Repair Tire Tubes, Adhesive Plaster Patch for Pneumatic Tires, and Quick Cure Tube Gum Used To Repair Tire Tubes, Tire Repair Kits Suitable for Garages.

Claims use since Apr. 2, 1948, as to the mark shown; and since May 2, 1917, as to "India."

Ser. No. 599,590. John R. Ritchie, Jr., doing business as The Ritchie Engr. Co., Minneapolis, Minn. Filed June 22, 1950.

YELLOW JACKET

Applicant makes no claim to hoses covered with a yellow jacket.

For Hoses Made of a Combination Comprising Synthetic Rubber and Fabric Material Having Extreme Flexibility—Namely, Refrigeration Charging Hoses for Conducting Gases—Namely, Freon, Methyl Chloride, Sulphur Dioxide, and Ammonia.

Claims use since May 19, 1950.

Ser. No. 623,811. Wiz-Products, Inc., Goshen, N. Y., by change of name from Tamminga Incorporated. Filed Jan. 19, 1952.

WIZ-SEAL

The word "Seal" is disclaimed.

For Gaskets.

Claims use since Dec. 27, 1950.

Ser. No. 630,149. Pullman Sales Corporation, Boston, Mass. Filed May 23, 1952.

ACCORDION

For Corrugated Rubber Hose.

Claims use since Nov. 6, 1950.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 606,786. The National City Bank of New York, New York, N. Y. Filed Nov. 22, 1950. (Sec. 2f.)



The pictures of the two men are fictitious. Applicant claims ownership of Registration No. 541,580.

For Books, Bulletins, Periodical Publications, Booklets Relating to the Banking Business or to Other Matters of Interest to Applicant's Customers, Maps, and Calendars (Other Than Desk Calendars).

Claims use since about 1865.

Ser. No. 616,729. The Sporting Goods Publishing Company, St. Louis, Mo. Filed July 20, 1951. (Sec. 2f.)

THE SPORTING GOODS
DEALER

Applicant claims ownership of Registrations Nos. 66,461, 319,108, and others.

For Monthly Publications.

Claims use since June 16, 1900.

CLASS 39

CLOTHING

Ser. No. 554,482. Foto Fashions, Newark, N. J. Filed Apr. 13, 1948.

"THE DRESS THAT CLICKS"



The slogan "The Dress That Clicks" is disclaimed.

For Women's, Misses', and Girls' Dresses, Playsuits, Pinafores, Coverall Dresses, and Smocks.

Claims use since Mar. 1, 1948.

Ser. No. 594,059. Nu-Maid Hosiery Mills, Inc., Darby, Pa. Filed Mar. 16, 1950.

Zebra

For Hosiery for Women.

Claims use since Feb. 9, 1950.

Ser. No. 606,778. Hospital Equipment Corporation, New York, N. Y. Filed Nov. 22, 1950.

ANCHOR

For Examination and Office Gowns, Caps, Aprons, Patients' Bathrobes, Internes' Suits, Examination Coats for Hospital Use, Nurses' Uniforms, Laboratory Coats, Office Blouses, and Visitors' Capes.

Claims use since December 1920.

Ser. No. 607,822. Nebel Knitting Company, Charlotte, N. C. Filed Dec. 18, 1950. (Sec. 2f as to the word "Nebel.")

NEBEL
Treasure Twist Nylons
Splendobook

The word "Nylons" is disclaimed. Applicant claims ownership of Registrations Nos. 189,444 and 515,302.

For Ladies' Hosiery.

Claims use since Aug. 22, 1949, as shown; and since Nov. 15, 1923, as to the word "Nebel."

Ser. No. 608,666. Neptune Specialties, Inc., Brooklyn, N. Y. Filed Jan. 11, 1951.

NEPTUNE

For Foul Weather Clothing for Boat Use Made of Impermeable, Water-Proof Material—Namely, Jackets, Trousers, and Hats Principally for Use by Men.

Claims use since Jan. 5, 1949.

Ser. No. 608,727. Wayne Knitting Mills, Fort Wayne, Ind. Filed Jan. 12, 1951. (Sec. 2f.)

STRAIN-EASE

Applicant claims ownerhsip of Registration No. 372,647.

For Women's Hosiery.

Claims use since June 1, 1938.

Ser. No. 611,126. Dennisons of Glens Falls, Glens Falls, N. Y. Filed Mar. 10, 1951.

NYL-ON-KIDS

"Nyl-On" is disclaimed.

For Boys' and Girls' Underwear—Namely, Slips, Panties, and Polo Shirts Made of Nylon Tricot and Spun Nylon.

Claims use since Feb. 27, 1951.

Ser. No. 614,109. Sears, Roebuck and Co., Chicago, Ill. Filed May 19, 1951.

Nobility

Applicant claims ownership of Registration No. 281,040.

For Men's and Young Men's Hats, Dress Shirts, Neckties, Pajamas, Underwear (Shirts and Shorts), Scarves, Suspenders, Belts.

Claims use since Aug. 5, 1930.

Ser. No. 615,735. Elizabeth B. Worswick, Berkeley, Calif. Filed June 26, 1951.

Shoe TIME

The word "Shoe" is disclaimed.

For Children's Wear—Namely, Jeans, T-Shirts, Pajamas, Socks, Shirts, and Shoes.

Claims use since May 7, 1951.

Ser. No. 616,507. Oshkosh B'Gosh, Inc., Oshkosh, Wis. Filed July 14, 1951. (Sec. 2f as to "Oshkosh.")

OSHKOSH
B'gosh

Applicant claims ownership of Registrations Nos. 511,479 and 511,480.

For Overalls, Pants, Coats, Jackets, Work Shirts, Suit Ensembles Comprising Pants and Shirts of Matching Color, One Piece Suits, and Handkerchiefs.

Claims use since April 1948 on the mark as shown; and since April 1911 on the word "Oshkosh."

Ser. No. 618,637. Interwoven Stocking Company, New Brunswick, N. J. Filed Sept. 11, 1951. (Sec. 2f.)

NONE
SUCH

Applicant claims ownership of Registration No. 289,765.

For Hosiery for Men, Boys, and Children.

Claims use since Apr. 5, 1923.

Ser. No. 618,663. United Manufacturing Company, San Francisco, Calif. Filed Sept. 11, 1951.

TIM'S RANCH

For Denim Pants, Denim Jeans, and Denim Jackets, for the Use of Men, Women, Boys, and Girls.

Claims use since on or about Apr. 15, 1943.

Ser. No. 624,385. Bergman Knitting Mills, Philadelphia, Pa. Filed Feb. 1, 1952.

ETERNALOCK

For Men's, Women's, and Children's Sweaters and Bathing Suits.

Claims use since Jan. 9, 1952.

Ser. No. 627,017. Tabin-Picker & Co., Chicago, Ill. Filed Mar. 25, 1952.

Joanie-Jan

For Women's and Misses' Dresses, Aprons, and Suits.

Claims use since Nov. 15, 1950.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 599,220. S. Augstein & Co., Inc., New York, N. Y. Filed June 16, 1950. (Sec. 2f.)

BRITTON

Applicant claims ownership of Registrations Nos. 392,059 and 392,309.

For Fabrics Made of Wool, Worsted, Silk, Cotton, Linen, Mohair, Rayon, Nylon, Other Synthetic Fibers, and Any Combination Thereof.

Claims use since on or about Oct. 15, 1938.

Ser. No. 601,186. Argarden Tweeds Limited, Edinburgh, Scotland. Filed July 25, 1950.

ARGARDEN

Applicant claims ownership of British Registration No. 569,281, dated June 6, 1936.

For Tweed Fabrics of Wool, Worsted and Hair.

Ser. No. 601,755. Rutger Fabrics Corp., New York, N. Y. Filed Aug. 4, 1950.

Baku

For Textile Fabrics of Synthetic Fibers.

Claims use since on or about March 1950.

Ser. No. 603,192. Jacobson Fabrics, Inc., New York, N. Y. Filed Sept. 6, 1950.

AMERICAN MADDERS

The word "American" and the term "Madders" are disclaimed.
For Rayon and Silk Piece Goods.
Claims use since June 1, 1950.

Ser. No. 610,599. United Elastic Corporation, Easthampton, Mass. Filed Jan. 31, 1951.



The drawing is lined for red and gold. Applicant claims ownership of Registration No. 297,852.
For Elastic Fabrics.
Claims use since about 1915.

Ser. No. 613,635. Gray's Carpets & Textiles Ltd., Springwell Mill, Batley, and London, England. Filed May 8, 1951.

HANWO

For Textile Fabrics of Wool.
Claims use since Apr. 12, 1951.

Ser. No. 615,226. B. Kuppenheimer and Co. Inc., Chicago, Ill. Filed June 15, 1951.

GABARDOE

For Swatches of Textile Fabrics Circulated to the Trade and Used for Selecting Suit Fabrics.
Claims use since Apr. 15, 1949.

Ser. No. 615,492. William Hird Limited, Wyke, England. Filed June 21, 1951.

SOLARO

Applicant claims ownership of British Registrations Nos. 143,621, dated Nov. 8, 1933; 283,020, dated May 16, 1906; and 263,112, dated Apr. 29, 1904.
For Textile Piece Goods of Linen, Hemp, Cotton, Wool, Worsted, or Hair.

Ser. No. 618,593. McNeill & McNeill, Los Angeles, Calif. Filed Sept. 10, 1951.

Mc O-Ray

For Cotton Corduroy Fabric.
Claims use since Dec. 1, 1950.

Ser. No. 618,605. Strass-Einiger Mills, Inc., New York, N. Y. Filed Sept. 10, 1951.

FURELLA

For Textile Fabrics in the Piece Made of Wool, Fur Fibers, or Combinations Thereof.
Claims use since May 16, 1951.

Ser. No. 618,607. Strass-Einiger Mills, Inc., New York, N. Y. Filed Sept. 10, 1951.

VICUNELLA

For Textile Fabrics in the Piece Made of Wool.
Claims use since about July 26, 1951.

Ser. No. 619,875. Dexter Woolen Corp., New York, N. Y. Filed Oct. 11, 1951.

"Dextra-*Point*"

The textile term "Point" is disclaimed. Applicant claims ownership of Registration No. 399,917.
For Woolen Piece Goods.
Claims use since Aug. 23, 1951.

Ser. No. 620,995. Bankers Securities Corporation, doing business as Snellenburgs, Philadelphia, Pa. Filed Nov. 8, 1951.

irish lilac

The word "Irish" is disclaimed.
For Sheets, Pillow Cases, Pillow Covers, Pillow Ticks, Mattress Covers, Mattress Pads, Towels, Toweling, Wash Table Cloths, Table Napkins, Blankets, Sheet Blankets, Comforts, Quilts, and Spreads.
Claims use since Apr. 1, 1949.

Ser. No. 621,878. Ellison & Spring, Inc., New York, N. Y. Filed Nov. 30, 1951.

Nap-Mat

The word "Mat" is disclaimed.
For Textile Table Napkins Which Can Alternately Be Used as Table Mats.
Claims use since Nov. 1, 1950.

Ser. No. 622,231. Edna S. Snyder, Chicago, Ill. Filed Dec. 7, 1951.

SCINTILLA

For Bed Clothes—Namely, Sheets and Pillow-Cases.
Claims use since Sept. 7, 1951.

Ser. No. 623,805. Moodus Net & Twine Inc., Moodus, Conn. Filed Jan. 19, 1952.



The representation of the person is fanciful.
For Fish Netting.
Claims use since Sept. 15, 1951.

Ser. No. 624,191. J. H. Erstein & Bro., Inc., New York, N. Y. Filed Jan. 28, 1952.



The drawing is lined for the color blue.
For Velvet Ribbon With a Woven Taffeta Back.
Claims use since Mar. 15, 1951.

Ser. No. 625,662. David & John Anderson Limited, Bridgeton, Glasgow, Scotland. Filed Feb. 28, 1952.

DEJA

Applicant claims ownership of British Registration No. 693,137, dated Oct. 18, 1950, and United States Registrations Nos. 262,977 and 555,955.
For Piece Goods Made Wholly of Silk, Wool, Rayon, Cotton, or a Mixture of Two or More of These Materials.

Ser. No. 628,660. William Volker & Company of Missouri, Inc., doing business as William Volker & Company, Kansas City, Mo. Filed Apr. 24, 1952.

Stylehome Plan

For Broadloom, Velvet, Hair, Fiber, and Cotton Rugs and Carpeting.
Claims use since Mar. 21, 1952.

Ser. No. 628,842. Botany Mills, Inc., Passaic, N. J. Filed Apr. 29, 1952.

ZABLEEN

For Piece Goods Made of Wool and Nylon.
Claims use since Mar. 14, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 612,259. The Harrower Laboratory, Inc., Jersey City, N. J. Filed Apr. 5, 1951.

HARRO-MATIC

For Vial Consisting of More Than One Compartment Designed To Facilitate the Preparation of Solutions and/or Suspensions for Parenteral Administration.
Claims use since Jan. 11, 1951.

Ser. No. 619,207. Mine Safety Appliances Company, Pittsburgh, Pa. Filed Sept. 25, 1951.

Pneolator

For Automatically Operated Apparatus for Producing Artificial Respiration Comprising an Oxygen Tank, a Face Piece, and Valve-Controlled Conduits.
Claims use since on or about Dec. 28, 1950.

Ser. No. 622,991. Coralite Dental Products Company, Chicago, Ill. Filed Dec. 29, 1951.



Applicant claims ownership of Registration No. 407,818.
For Dental Materials of Self-Curing Methacrylate Composition Used in Making Prosthetic Restorations, Artificial Teeth, Denture Repairs, Denture Relining and Rebasing, Individual Impression Trays, Orthodontic Space Retainers, Direct Fillings, Inlays, Jacket Crowns, Facings, Veneers, Dental Splints, Bite Opening Appliances, Study Models, and Base Plates.
Claims use since Nov. 9, 1943.

Ser. No. 624,579. Abbott Laboratories, North Chicago, Ill. Filed Feb. 6, 1952.

DONOSETTE

Applicant claims ownership of Registrations Nos. 535,146 and 537,404.
For Disposable, Ready-To-Use, Unit for the Collection of Blood by Vacuum Consisting of a Length of Flexible Tubing With Attached Bottle, Needles, and Clamps.
Claims use since Jan. 2, 1952.

Ser. No. 624,715. West Bend Aluminum Co., West Bend, Wis. Filed Feb. 8, 1952. (Sec. 2f.)

WEST BEND

For Baby Bottle Sterilizers.
Claims use since January 1912.

Ser. No. 625,008. Arnold E. Fischel, doing business as Harbud Associates, Brooklyn, N. Y. Filed Feb. 15, 1952.

Harbud

For Empty Perfume Atomizers.
Claims use since September 1948.

Ser. No. 625,331. Callie E. Campbell, doing business as Tryon Garment Company, Tryon, N. C. Filed Feb. 21, 1952.

Emily

For Ladies' Sanitary Belts and Protectors.
Claims use since June 15, 1951.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 545,665. Van Dusen Harrington Co., doing business under the name The Gardner Mills, Minneapolis, Minn. Filed Dec. 29, 1947. (Sec. 2f—Additional evidence.)

HIGRADE

The drawing is lined to indicate orange but no claim is made to coloring as an essential feature of the mark.
For Wheat Flour.
Claims use since 1912.

Ser. No. 546,947. The Battle Creek Food Company, Battle Creek, Mich. Filed Jan. 14, 1948. (Sec. 2f—Additional evidence.)

MINUTE BREW

For Cereal Food Beverage.
Claims use since May 1, 1912.

Ser. No. 554,950. The Colorado Milling & Elevator Co., Denver, Colo., and elsewhere, doing business under the style name of Monte Vista Flour Mills, Monte Vista, Colo. Filed Apr. 19, 1948. CONCURRENT USE with Registrations Nos. 282,529, 282,821, 223,995, and 148,992 for the area comprising Colorado, Kansas, Wyoming, New Mexico, Nebraska, Utah, Oklahoma, and Arizona.

BLUE JAY



The words "Blue Jay" are lined for red. The lining on the representations of the bird, branch and leaves is not representative of any color.
For Wheat Flour.
Claims use since May 20, 1910.

Ser. No. 571,308. Zion Industries, Inc., Zion, Ill. Filed Dec. 29, 1948.

The word "Fig" is disclaimed. Applicant claims ownership of Registration No. 418,658.
For Candy Bars.
Claims use since 1922.

Ser. No. 571,376. Yantic Grain & Products Co., Norwich, Conn. Filed Dec. 30, 1948. (Sec. 2f.)

THAMES VALLEY

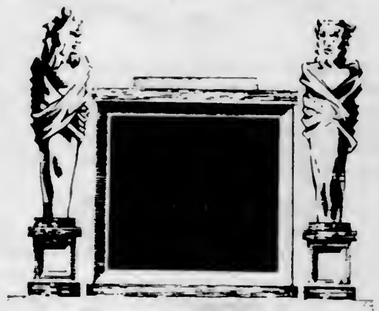
Applicant claims ownership of Registration No. 288,841.
For Canned Vegetables, Canned Fruits, Canned Fish, Piccalilli, Honey, and Pickles.
Claims use since Sept. 19, 1930.

Ser. No. 574,553. Tiedemann & McMorran, Inc., San Francisco, Calif. Filed Feb. 25, 1949. CONCURRENT USE with Reg. No. 295,796, for the goods stated below for the area comprising that portion of the United States west of the Mississippi River.

Sun-Blest

For Canned Fruits, Canned Berries, Canned Vegetables, Canned Baked Beans With Pork, Hominy, Mushrooms, Pickles, Sweet Relish, Canned Sauerkraut, Tomato Catsup, Tomato Chili Sauce, Tomato Paste, Tomato Sauce, Canned Fruit Juices, Canned Vegetable Juices, Chop Suey Sauce, Honey, Mincemeat, Mushroom Sauce, Prepared Mustard, Peanut Butter, Pimientos, Raviolis, Salt, Vinegar, Olive Oil, Chicken Tamales, Imitation Maple Syrup, Canned Apple Sauce, Canned Fruit Cocktail, Olives, Fruit Preserves, Berry Preserves, Apple Butter, Jams, Jellies, Marmalades, Canned Fish, Canned Shellfish, Mayonnaise Dressing, Clam Juice, Italian Style Sweet Peppers, Gelatine Dessert, Egg Noodles and Corned Turkey Giblets; Egg Noodles and Chicken; Egg Noodles and Chicken Giblets; Chow Chow, Pepper Sauce; Hot Pepper Relish of Peppers, Cabbage, Onions, Vinegar, Salt and Spices; Vegetable Relish of Cabbage, Carrots, Peppers, Onions, Vinegar, Sugar, Salt and Spices; Sweet Pickle Relish of Pickles, Sugar, Vinegar, Cauliflower, Onions and Spices; Prepared Cocktail Sauce, Strained Cranberry Sauce, Whole Cranberry Sauce, and Canned Brown Bread With Raisins.
Claims use since Dec. 21, 1922.

Ser. No. 589,620. Robert Jackson & Company Limited, London, England. Filed Oct. 13, 1949.



JACKSONS OF PICCADILLY

Applicant disclaims "Choicest Empire Blend ½ lb. Nett" and "Jacksons of Piccadilly."
For Tea.
Claims use since Jan. 1, 1938; and use in commerce between the United States and Great Britain since Dec. 20, 1948.

Ser. No. 592,321. K-B Products Corporation, Catskill, N. Y. Filed Feb. 11, 1950. (Sec. 2f as to "Knaust's.")

KNAUST'S CAVERN



The representation of the mushrooms is disclaimed. Applicant claims ownership of Registration No. 341,610.
For Canned Mushrooms.
Claims use since Jan. 25, 1935.

Ser. No. 594,657. Pasco Growers Association, Kennewick, Wash., assignor to Baker Produce Co., Kennewick, Wash., a corporation of Washington. Filed Mar. 25, 1950.

U·LIKE·MOR

For Fresh Vegetables, Fresh Cantaloupes, Fresh Deciduous Fruits, Fresh Strawberries.
Claims use since 1926.

Ser. No. 604,376. Basic Foods, Inc., Union City, N. J., assignee of Curt Michaelis. Filed Oct. 3, 1950.

Frost 'n Feast

The word "Frost" is disclaimed. Applicant claims ownership of Registration No. 323,018.
For Icing in Solid Form for Cakes and Cookies.
Claims use since Aug. 30, 1950.

Ser. No. 607,150. Winter Garden Citrus Products Cooperative, Winter Garden, Fla. Filed Nov. 30, 1950.



The representation of the oranges is disclaimed. The drawing is lined for the color orange.
For Concentrated Orange Juice.
Claims use since June 15, 1950.

Ser. No. 607,873. Società Azionaria Primo Istituto Dietetico Italiano Rinaldo Rossi, Milan, Italy. Filed Dec. 19, 1950.

KATOBESOL

Applicant claims ownership of Italian Registration No. 92,302, dated Mar. 11, 1949.
For Dietetic Products for Use in the Treatment of Obesity—Namely, Bread, Biscuits, Grissini (Sticks of Toasted Bread), Slices of Toasted Bread, and Alimentary Pastes, All Being Farinaceous Products for Human Consumption, and Corn Flour.

Ser. No. 610,261. Robert J. Corcoran, doing business as Bubble-O-Bill Company, Beverly Hills, Calif., assignor to Bubble-O-Bill Corporation, Los Angeles, Calif., a corporation of California. Filed Feb. 19, 1951.

Bubble-O-Bill

For Corn Product Foodstuffs Consisting of Strips, Chunks, or Other Shapes of Toasted, Baked, and/or Fried Corn Meal and/or Corn Flour.
Claims use since Jan. 31, 1951.

Ser. No. 610,278. Kotake Company, Limited, Honolulu, Territory of Hawaii. Filed Feb. 19, 1951.

力餅

The Japanese characters denote the words "Chikara" and "Mochi," meaning "Strength, Force or Energy" and "Rice Cake" respectively, the combined words "Chikara-Mochi" mean "Strongman." The Japanese character denoting "Mochi," meaning "Rice Cake," is disclaimed.
For Rice Cake.
Claims use since Nov. 27, 1950.

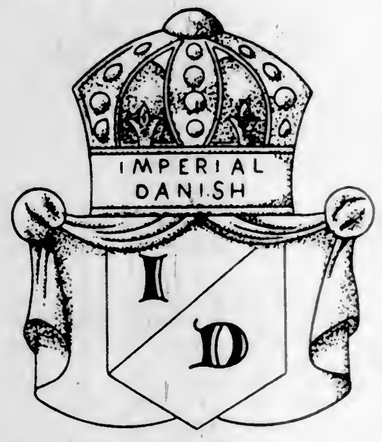
Ser. No. 610,314. E. F. Drew & Co., Inc., New York, N. Y. Filed Feb. 20, 1951.



MOUNTAIN LAKES

For Oleomargarine.
Claims use since Mar. 27, 1950.

Ser. No. 611,718. Pfeiffer's Food Products, Inc., Buffalo, N. Y. Filed Mar. 23, 1951.



The word "Danish" is disclaimed.
For Dressing for Salads.
Claims use since Feb. 19, 1951.

Ser. No. 614,835. C. F. Mueller Company, Jersey City, N. J. Filed June 6, 1951.



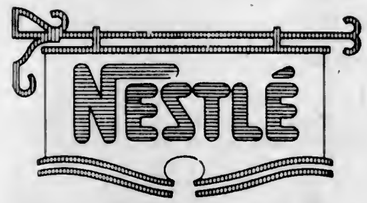
The trade-mark Consists of the Outline of a House Which Appears as the Border of a Transparent Window. Applicant disclaims the exclusive right of the use of a window per se.
For Alimentary Pastes.
Claims use since May 25, 1951.

Ser. No. 614,849. Sears, Roebuck and Co., Chicago, Ill. Filed June 6, 1951.

Peggy Kellogg

The mark is the name of no individual known to applicant. Applicant claims ownership of Registration No. 295,959.
For Fruit Cake, Buttered and Salted Popcorn, Candy, Jams, Jellies, and Corn Popping Oil.
Claims use since Oct. 15, 1930.

Ser. No. 618,000. Nestlé's Chocolate Company, Inc., New York, N. Y. Filed Aug. 23, 1951. (Sec. 2f—Separate evidence.)



The drawing is not lined for color but merely indicates difference in shading or colors, no claim being made to any specific color. Applicant claims ownership of Registrations Nos. 74,832, 185,601, and others.
For Cookie Mix.
Claims use since Sept. 18, 1950.

Ser. No. 618,001. Nestlé's Chocolate Company, Inc., New York, N. Y. Filed Aug. 23, 1951. (Sec. 2f—Additional evidence.)

NESTLÉ

Applicant claims ownership of Registrations Nos. 74,832, 185,601, and others.
For Cookie Mix.
Claims use since Sept. 18, 1950.

Ser. No. 618,024. California Prune and Apricot Growers Association, San Jose, Calif. Filed Aug. 24, 1951.

GOLDEN GLOW

For Dried Fruits.
Claims use since 1914.

Ser. No. 618,110. The Euclid Candy Co. of California, Inc., San Francisco, Calif. Filed Aug. 27, 1951.

Euclid's
CARDINAL

Applicant claims ownership of Registrations Nos. 362,289 and 370,554.
For Candy Bars.
Claims use since in 1928.

Ser. No. 619,084. Chr. Hansen's Laboratory, Inc., Little Falls, N. Y. Filed Sept. 21, 1951.



Applicant claims ownership of Registrations Nos. 30,916, 146,762, and others.
For Food Colors, Freezing Mix for Making Ice Cream, Fudge and Frosting Mix, Danish Dessert, and Sherbet Mix.
Claims use since March 1937.

Ser. No. 620,046. Little Ted's Cookies, Chicago, Ill. Filed Oct. 16, 1951.

CUBBIES

The drawing is lined for red.
For Cookies.
Claims use since February 1950.

Ser. No. 621,271. Leaf Brands, Inc., doing business under the name and style of Overland Candy Co., Chicago, Ill. Filed Nov. 15, 1951.

FOURSOME

For Candy.
Claims use since Jan. 1, 1950.

Ser. No. 621,272. Leaf Brands, Inc., doing business under the name and style of Overland Candy Co., Chicago, Ill. Filed Nov. 15, 1951.

SHOOTERS

For Candy.
Claims use since January 1950.

Ser. No. 625,125. Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, Canada. Filed Feb. 18, 1952.

WHITE CREST

For Fresh, Frozen, and Canned Shell Fish, Canned Salmon, and Fresh, Frozen, Smoked, and Cured Fish.
Claims use since July 9, 1951: and in commerce between Canada and the United States since Dec. 8, 1951.

Ser. No. 625,127. Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, Canada. Filed Feb. 18, 1952.

THUNDERBIRD

For Fresh, Frozen, and Canned Shell Fish, Canned Salmon, and Fresh, Frozen, Smoked, and Cured Fish.
Claims use since July 9, 1951; and in commerce between Canada and the United States since Dec. 8, 1951.

Ser. No. 625,128. Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, Canada. Filed Feb. 18, 1952.

SEA MOUNT

The word "Sea" is disclaimed.
For Fresh, Frozen, and Canned Shell Fish, Canned Salmon, and Fresh, Frozen, Smoked, and Cured Fish.
Claims use since July 9, 1951; and in commerce between Canada and the United States since Dec. 8, 1951.

Ser. No. 626,167. Holmes Packing Corporation, Eastport, Maine. Filed Mar. 8, 1952. (Sec. 2f.)

HOLMES

For Canned Fish.
Claims use since 1891.

Ser. No. 626,439. B & W Canning Company, Inc., Groveland, Fla. Filed Mar. 14, 1952.

B'n W

Applicant claims ownership of Registration No. 443,961.
For Canned Citrus Fruits and Canned Citrus Juices, Including Concentrated Citrus Juices.
Claims use since October 1948.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 585,786. Enterprise Brewing Company, Fall River, Mass. Filed Oct. 5, 1949.

BOH

For Beer.
Claims use since Mar. 16, 1949.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 616,250. Standard Cap and Seal Corporation, Chicago, Ill., now by change of name Standard Packaging Corporation. Filed July 9, 1951.

DU-PLY

The word "Ply" is disclaimed.
For Bottle Closures Used Upon Milk Bottles.
Claims use since July 1, 1951.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 580,479. C. A. Halm, doing business as The Femelle Laboratory, Glendale, Calif. Filed June 15, 1949.

FEMELLE

For Cleansing and Deodorizing Agent for Use in Personal Hygiene.
Claims use since Jan. 30, 1948.

Ser. No. 597,405. Maison Des Fleurs, New York, N. Y. Filed May 13, 1950.



For Perfumes.
Claims use since November 1948.

Ser. No. 601,672. Ivan Victor Grisel, Canton of Geneva, Switzerland. Filed Aug. 3, 1950.

DELLAC

For Liquid Nail Polish Remover.
Claims use since May 8, 1950, in Switzerland; and in commerce between Switzerland and the United States since May 31, 1950.

Ser. No. 602,338. Helena Rubinstein, Inc., New York, N. Y. Filed Aug. 17, 1950.

white magnolia

helena rubinstein

The name "Helena Rubinstein" is that of the founder and president of the applicant corporation, consent given. The words "White Magnolia" are disclaimed. Applicant claims ownership of Registration No. 533,839.
For Cologne, Shaker Talc, Dusting Powder, Perfume in Solid, Compact Form.
Claims use since Oct. 19, 1949.

Ser. No. 603,162. Princess Pat, Ltd., Chicago, Ill. Filed Sept. 5, 1950.

Kathryn Fleming

The mark is the name of a particular living individual and consent to the use of the name as a trade-mark has been granted by the individual.
For Facial Cream, Skin Tissue Cream, Muscle Oil, Perfumery, Toilet Water, Face Powder, Powder Refills, Rouge in Powder Form, Rouge in Paste Form, Lip Rouge, Finger-Nail Finish, Preparation for Shadowing the Eye, Preparation for Painting the Eye-Brows, and Foot Powder.
Claims use since May 11, 1942.

Ser. No. 605,557. Norda Essential Oil and Chemical Co., Inc., New York, N. Y. Filed Oct. 28, 1950. (Sec. 2f.)

J. Rouviers Frères

The mark consists of the arbitrarily chosen words "J. Rouviers Frères."
For Natural Floral Perfumes, Essential Oils, Finished Colognes and Toilet Waters, and Aromatic Chemicals, the Essential Oils and Aromatic Chemicals Being Used as a Perfume Base or Ingredient.
Claims use since Mar. 1, 1932.

Ser. No. 605,993. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Filed Nov. 7, 1950.

CILAG

Applicant claims ownership of Swiss Registration No. 114, 141, dated Feb. 14, 1946.
For Perfumes and Toilet Preparations—Namely, Hand Lotion, Skin Lotions, Hand Creams, Face Creams, Cold Creams, Vanishing Creams, Toilet Waters, Eau de Cologne, Cleansing Creams, Deodorant Creams, Depilatories, Hair Tonics, Skin Tonics, Face Powders, Bath Powders, Talcum Powders, Lipsticks, Rouges, Nail Polish, Hand Softeners, Shaving Soaps, Sunburn Creams.

Ser. No. 608,958. Societe a Responsabilite Limitee Balenciaga, Paris, France. Filed Jan. 18, 1951.

LE DIX BALENCIAGA

Applicant claims ownership of French Registration No. 406,034, dated Oct. 2, 1950, and United States Registrations Nos. 423,262 and 431,821.
For Perfumes.

Ser. No. 611,816. Charles Thomas, doing business as Comanche Belle Enterprises, Fort Worth, Tex. Filed Mar. 26, 1951.



The figure shown in the drawing is fanciful.
For Cosmetics—Namely, a Skin Oil for Dry Skin, Sun Burn, and Callouses.
Claims use since Apr. 1, 1949.

Ser. No. 612,172. William K. Letford, doing business as The Tryne Company, Sayville, N. Y. Filed Apr. 3, 1951



For Facial Cream, Liquid Cream Deodorant, Skin Lotion, and Scalp Lotion.
Claims use since Mar. 26, 1951.

Ser. No. 613,890. Bert Jay Friedman, Santa Monica, Calif. Filed May 14, 1951.



For Sun Tan Lotion.
Claims use since Dec. 21, 1949.

Ser. No. 616,163. Ex-Cel-Cis, Inc., also doing business as Jenny-Lynn Distributing Company, Salt Lake City, Utah. Filed July 6, 1951.

Jenny Lynn

The trade-mark "Jenny Lynn" is fanciful.
For Skin Perfume.
Claims use since May 4, 1951.

Ser. No. 617,992. Amilee Hill, doing business as Madam A. Hill, Chicago, Ill., and Gary, Ind. Filed Aug. 23, 1951.

Speedy

For Hair Pomade.
Claims use since Dec. 9, 1949.

Ser. No. 618,540. Exclusive Import Company, Inc., Chicago, Ill. Filed Sept. 8, 1951.

ALPHABETICAL

For Perfumes, Perfume Essences, and Toilet Water.
Claims use since Aug. 24, 1951.

Ser. No. 619,009. Cigogne, Inc., New York, N. Y. Filed Sept. 20, 1951.

Their Preference

For Men's Toiletries—Namely, Shaving Cream, After Shaving Lotion, and Cologne.
Claims use since Aug. 9, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 578,246. Allied Chemical & Dye Corporation, New York, N. Y. Filed May 5, 1949.

NATIONAL

Applicant claims ownership of Registrations Nos. 123,946, 150,489, and 164,690.
For Synthetic Organic Sulfonate Detergent Compositions.
Claims use since in January 1932.

Ser. No. 586,424. No-Boil Fluid Chemical Company, Jamestown, N. Y. Filed Oct. 17, 1949. (Sec. 2f.)



The representation of the two women is fanciful. The words "Washing Fluid" and "Removes Stains Without Boiling" are disclaimed. Applicant claims ownership of Registrations Nos. 257,192 and 417,381.
For Washing Compound for Use in Cleaning Clothes Having Incidental Bleaching Properties and for Removing Stains, Cleaning Floors, Glass, and Painted Woodwork.
Claims use since 1940 as to the mark shown; and since July 1, 1927, as to the word "No-Boil."

Ser. No. 591,203. Spontaine Mfg. Company, Atlanta, Ga. Filed Jan. 20, 1950.

COILAX

For Descaling Compounds for Removing Scale Deposits in Heating Coils.
Claims use since on or about Oct. 1, 1949.

Ser. No. 598,332. Frank N. Stanger, Erie, Pa. Filed May 29, 1950.

FOAMBRITE

For Cleaning Sponge Chemically Treated, for Cleaning Walls, Woodwork, Painted Surfaces, and Fabrics.
Claims use since Mar. 25, 1950.

Ser. No. 607,891. Brown Laboratories, Inc., Philadelphia, Pa. Filed Dec. 20, 1950.

KISSES *for* DISHES

The words "For Dishes" are disclaimed.
For Detergent for Dishes.
Claims use since May 18, 1950.

Ser. No. 611,696. Harold L. Groves, doing business as Granitize Products Company, South Gate, Calif. Filed Mar. 23, 1951.

BILD-A-GLAZE

The word "Glaze" is disclaimed.
For Paint Cleaner.
Claims use since January 1948.

Ser. No. 614,728. Signal Oil Company, Los Angeles, Calif., assignor to Standard Oil Company of California, a corporation of Delaware, doing business as Signal Oil Company, Los Angeles, Calif. Filed June 4, 1951.



SIGNAL

For Cleaning Solvent Useful for General, Domestic, and Industrial Cleaning of Fabrics, Metals, Cements, and Other Materials.
Claims use since October 1948 on the mark as shown; and since March 1931 as to "Signal."

Ser. No. 615,732. Swift & Company, Chicago, Ill. Filed June 26, 1951. (Sec. 2f.)

Swift's

For Cleanser Used as a Detergent.
Claims use since June 1945 on the mark as shown; and since 1909 on the word "Swift's."

Ser. No. 616,949. John W. Curtis, Topeka, Kans. Filed July 26, 1951.

BABY JO



The representation of the baby shown on the drawing is fanciful.
For Waterless Soap.
Claims use since Mar. 1, 1949.

Ser. No. 621,534. Sterling Drug Inc., New York, N. Y. Filed Nov. 21, 1951.

Tod'l

For Detergent Baby Bath Preparation.
Claims use since Sept. 20, 1951.

Ser. No. 624,033. Hyx Cleaner Company, Dallas, Tex. Filed Jan. 24, 1952.

Hyx

For Preparation Used as a Detergent and as a Cleaner of Rugs, Fabrics, Walls, and Surfaces Generally (Including Wood, Metal, or Plastic Surfaces, Painted or Not).
Claims use since Jan. 11, 1952.

SERVICE MARKS

CLASS 106

MATERIAL TREATMENT

Ser. No. 623,746. Brewster Finishing Co., Inc., Paterson, N. J. Filed Jan. 18, 1952.

NYLONAIDED

For Applying a Resin Finish to Textile Fabrics To Impart to Them Properties Simulating Those of Nylon.
Claims use since Jan. 4, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

563,749. Reflective Glass Beads, Etc. Flex-O-Lite Manufacturing Corporation, St. Louis, Mo., assignee of B. & R. Manufacturing Company.
Original filed, act of 1905, Aug. 9, 1946; amended to application under act of 1946, Principal Register, Sept. 15, 1948, Serial No. 507,103. Published Sept. 27, 1949. Class 50.

563,750. Shampoo. James P. Kosta, Dayton, Ohio.
Original filed, act of 1905, Apr. 1, 1947; amended to application under act of 1946, Principal Register, Sept. 27, 1950, Serial No. 519,959. Published May 27, 1952. Class 52.

563,751. Articles of Furniture, the Particular Articles of Furniture Being Beds, Dressers, Etc. John Stuart Inc., New York, N. Y.
Filed Mar. 5, 1948, Serial No. 551,337. Published June 17, 1952. Class 32.

563,752. Bricks. Dunan Brick Yards Incorporated, Miami, Fla.
Filed Mar. 23, 1948, Serial No. 552,757. Published May 27, 1952. Class 12.

563,753. Self-Polishing Floor Wax, Inside and Outside Ready-Mixed Paints, Paint Enamels, Paint Used for Priming, Sealing, and Undercoating and Aluminum Paint. Clover Farm Stores Corporation, Cleveland, Ohio.
Filed Mar. 25, 1948, Serial No. 552,941. Published June 10, 1952. Class 4.

563,754. Ready-Mixed Paint Sold in Liquid Form, Paste Paint and Semi-Paste Paint, Etc. Armstrong Paint & Varnish Works, Chicago, Ill.
Filed May 3, 1948, Serial No. 556,054. Published June 10, 1952. Class 16.

563,755. Ready-Mixed Paint Sold in Liquid Form, Paste Paint and Semi-Paste Paint, Etc. Armstrong Paint & Varnish Works, Chicago, Ill.
Filed May 3, 1948, Serial No. 556,055. Published June 10, 1952. Class 16.

563,756. Pads Made of Excelsior or Similar Packing Material and Having a Covering of Paper or Similar Material and Designed for Use in Packing Objects for Shipment. Blake, Moffitt & Towne, San Francisco, Calif.
Filed July 30, 1948, Serial No. 562,524. Published May 20, 1952. Class 50.

563,757. Butter and Cheese. S. A. Latterie Industriali Riunite, L. I. R., Robbio, Lomellina, Italy.
Filed Sept. 9, 1948, Serial No. 565,151. Published June 17, 1952. Class 46.

563,758. Pressure Regulator Safety Devices—Namely, Feed Water Regulators, Pressure Regulators, Damper Regulator Valves, Reducing Valves, Relief Valves, Pressure and Vacuum Valves, Boiler Water Feeders, and Low Water Cut-Offs. Watts Regulator Co., Lawrence, Mass.
Filed Sept. 27, 1948, Serial No. 565,982. Published June 17, 1952. Class 13.

563,759. Nails. Nichols Wire and Aluminum Co., Davenport, Iowa.
Filed Nov. 26, 1948, Serial No. 569,465. Published June 17, 1952. Class 13.

563,760. Fabrics of Silk, Wool, Cotton, Linen, Mohair, Rayon, Worsted, or Mixtures Thereof, Sold in the Piece. Stanley H. Goldsmith, Inc., Philadelphia, Pa.
Filed Dec. 17, 1948, Serial No. 570,699. Published June 17, 1952. Class 42.

563,761. Disinfectants, Deodorants, and Fungicides, for Household, Industrial, and Institutional Use. Cole Chemical Company, St. Louis, Mo.
Filed Apr. 28, 1949, Serial No. 577,870. Published June 17, 1952. Class 6.

563,762. Sheet Metal Products—Namely, Sinks for Domestic and Commercial Use. Q-Rolo Sheet Metal Products, San Francisco, Calif., formerly Riddle Sheet Metal Works.
Filed May 2, 1949, Serial No. 578,099. Published June 17, 1952. Class 13.

563,763. Molded Plastic Dinner Table Dishes. Boonton Molding Company, Boonton, N. J.
Filed May 10, 1949, Serial No. 578,483. Published June 17, 1952. Class 2.

563,764. Liquid Product for Redyeing and Refinishing of Suede and Nap Finished Leathers and for Restoring the Original Color to the Same. Eaton Chemical and Dyestuff Company, Detroit, Mich.
Filed July 9, 1949, Serial No. 581,713. Published June 3, 1952. Class 6.

563,765. Disinfectant for Closet Bowls and Urinals. The Sani-White Chemical Co., Baltimore, Md.
Filed July 18, 1949, Serial No. 582,144. Published June 17, 1952. Class 6.

563,766. Wheat Flour. Silbernagel Company, Inc., Pine Bluff, Ark.
Filed July 25, 1949, Serial No. 582,498. Published June 17, 1952. Class 46.

563,767. Veterinary Preparation for Treatment of Piroplasmosis. Imperial Chemical (Pharmaceuticals) Limited, London, England.
Filed Aug. 25, 1949, Serial No. 584,002. Published May 13, 1952. Class 18.

563,768. Cleaning Device Comprising an Elongated Handle on the End of Which Is Mounted a Cellulose Sponge. The Lux Company, Inc., doing business as The Molly Mac Co., Elkhart, Ind.
Filed Aug. 30, 1949, Serial No. 584,244. Published Aug. 22, 1950. Class 29.

563,769. Tents, Wagon and Truck Covers, and Tarpaulins. Little Rock Tent and Awning Company, Little Rock, Ark.
Filed Sept. 16, 1949, Serial No. 584,914. Published May 13, 1952. Class 50.

563,770. Infants', Children's, and Boys' Clothing—Namely, Creepers, Etc. Farah-Agee Manufacturing Company, Inc., El Paso, Tex.
Filed Oct. 5, 1949, Serial No. 585,789. Published Sept. 5, 1950. Class 39.

563,771. Compartmental Plastic Baskets for Holding and Carrying Bottles. Durable Plastics, Inc., Sherman, Tex.
Filed Oct. 18, 1949, Serial No. 586,474. Published June 17, 1952. Class 2.

563,772. Juvenile Furniture—Namely, High Chairs and Table and Chair Sets. Rex Baby Carriage Mfg. Co., Inc., New York, N. Y.
Filed Nov. 5, 1949, Serial No. 587,401. Published June 17, 1952. Class 32.

563,773. Broiling Ovens. O'Keefe and Merritt Company, Los Angeles, Calif.
Filed Nov. 23, 1949, Serial No. 588,229. Published Jan. 16, 1951. Class 34.

563,774. Kitchen Metal Wall and Base Cabinets. Sears, Roebuck and Co., Chicago, Ill.
Filed Nov. 26, 1949, Serial No. 588,392. Published June 17, 1952. Class 32.

563,775. Table Tops. The Micatex Company, Clinton, Mass.
Filed Dec. 14, 1949, Serial No. 589,326. Published Oct. 3, 1950. Class 32.

563,776. Frames for Showcases in Theater Displays. Theater Specialties, Incorporated, Los Angeles, Calif.
Filed Dec. 19, 1949, Serial No. 589,606. Published Feb. 27, 1951. Class 32.

563,777. Hand Carved Ivory Objects of Art—Namely, Amulets, Talisman Pieces, Decorative Statues and Figurines, Miniatures of Various Articles, and Bric-a-Brac. Herman Krupp, doing business under the assumed name of Oceanic Trading Company, Seattle, Wash.
Filed Jan. 3, 1950, Serial No. 590,273. Published June 17, 1952. Class 50.

563,778. Poultry Medicines for the Treatment of Coccidiosis, Cannibalism, Cecal Worms, and Fowl Pox and Cholera. Pioneer Hi-Bred Corn Co., Des Moines, Iowa.
Filed Jan. 7, 1950, Serial No. 590,521. Published May 13, 1952. Class 18.

563,779. Chemical Preparation Used as a Disinfectant and Household Germicide. King Research, Inc., Brooklyn, N. Y.
Filed Jan. 26, 1950, Serial No. 591,487. Published Dec. 12, 1950. Class 6.

563,780. Liniment Recommended for Rheumatic and Neuralgic Pains, Lumbago, Cramps, Sciatica, Stiff Neck, Wrenched or Sprained Muscles, and Bruises. Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y.
Filed Jan. 26, 1950, Serial No. 591,492. Published May 13, 1952. Class 18.

563,781. Preparation Recommended for the Treatment of Coughs. Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y.
Filed Jan. 26, 1950, Serial No. 591,493. Published May 13, 1952. Class 18.

563,782. Detergent-Sanitizing Composition Particularly Adapted for Washing Dishes, Dairy Utensils, and Equipment, But Not Limited Thereto. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Jan. 26, 1950, Serial No. 591,535. Published May 20, 1952. Class 52.

563,783. Canned Pineapple. The Colonial Sugar Refining Company, Limited, Sydney, New South Wales, Australia.
Filed Feb. 10, 1950, Serial No. 592,252. Published June 10, 1952. Class 46.

563,784. Canned Pineapple. The Colonial Sugar Refining Company, Limited, Sydney, New South Wales, Australia.
Filed Feb. 10, 1950, Serial No. 592,253. Published June 10, 1952. Class 46.

563,785. Canned Pineapple Juice. The Colonial Sugar Refining Company, Limited, Sydney, New South Wales, Australia.
Filed Feb. 10, 1950, Serial No. 592,254. Published June 10, 1952. Class 46.

563,786. Canned Pineapple. The Colonial Sugar Refining Company, Limited, Sydney, New South Wales, Australia.
Filed Feb. 10, 1950, Serial No. 592,255. Published June 10, 1952. Class 46.

563,787. Chemical Compound for Use in Removing Foreign Matter From Ion-Exchange Materials. Culligan Zeolite Company, Northbrook, Ill.
Filed Mar. 11, 1950, Serial No. 593,787. Published May 27, 1952. Class 6.

563,788. Calcium Carbonate Used as an Ingredient in Livestock and Poultry Feeds and Concentrates. Calcium Carbonate Company, Chicago, Ill.
Filed Jan. 28, 1950, Serial No. 593,956. Published May 13, 1952. Class 18.

563,789. Insecticides and Insect Sprays. Eagle Products Co., Inc., Chattanooga, Tenn.
Filed Mar. 22, 1950, Serial No. 594,371. Published June 17, 1952. Class 6.

563,790. Fresh Dates. Associated Date Growers & Packers, Indio, Calif.
Filed Mar. 28, 1950, Serial No. 594,824. Published Apr. 17, 1951. Class 46.

563,791. Endothermic Reaction Apparatus for Producing a Protective Atmosphere Gas From Fuel Gases. General Electric Company, Schenectady, N. Y.
Filed Mar. 31, 1950, Serial No. 594,965. Published June 17, 1952. Class 34.

563,792. Solid-, Liquid-, and Gaseous-Fuel-Burning Stoves, Ranges, Water-Heaters, Radiant Space-Heaters, Circulator Air-Heaters, Floor Furnaces, Central-Heating Furnaces, and Unit-Heaters. Phillips & Buttorff Mfg. Co., Nashville, Tenn.
Filed Apr. 3, 1950, Serial No. 595,150. Published June 3, 1952. Class 34.

563,793. T-Shirts, Sweat Shirts, Sweaters, Polo Shirts, Sport Shirts, Socks, Neckties, and Suspenders for Men and Children; Etc. Judy Rich Enterprises, Oakland, Calif.
Filed Apr. 20, 1950, Serial No. 596,029. Published May 22, 1951. Class 39.

563,794. Stainless Steel Industrial Sponge. Joseph M. Moran, doing business as Kleen-Kurl Sales Co., Chicago, Ill.
Filed Apr. 22, 1950, Serial No. 596,178. Published May 20, 1952. Class 4.

563,795. Farm and Poultry Wire Fence, Hog and Cattle Wire Fence, Rectangular and Triangular Mesh Wire Fence, Etc. Atlantic Steel Company, Atlanta, Ga.
Filed Apr. 26, 1950, Serial No. 596,320. Published June 17, 1952. Class 13.

563,796. Ventilator Fans, Household Fans, and Window Ventilator Fans. The Geometric Stamping Co., Euclid, Ohio.
Filed May 5, 1950, Serial No. 596,909. Published May 20, 1952. Class 34.

563,797. Typewriter Ribbons, Carbon Paper, Writing Ink, Rubber Stamp Pads. A. W. Faber-Castell Pencil Co., Inc., Newark, N. J.
Filed May 12, 1950, Serial No. 597,330. Published June 17, 1952. Class 11.

563,798. Knee Pillows. Mark Fugitt, Dallas, Tex.
Filed June 29, 1950, Serial No. 599,937. Published June 17, 1952. Class 32.

563,799. Powdered and Liquid Preparations for Use as an Inhalant in Treating Catarrh, Frontal Headache, Hay Fever, Stomach Discomfort Due to Gas, Sour and Acid Conditions, and Colds. St. Lawrence Chemical Company, Inc., Ogdensburg, N. Y.
Filed July 14, 1950, Serial No. 600,700. Published May 13, 1952. Class 18.

563,800. Dining Tables, Dining Chairs, Servers, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed July 20, 1950, Serial No. 600,987. Published June 17, 1952. Class 32.

563,801. Antihistamine Compound Tablet. Plough, Inc., Memphis, Tenn.
Filed July 28, 1950, Serial No. 601,375. Published May 13, 1952. Class 18.

563,802. Insecticidal Paints and Insecticide Ingredient for Paint. Dianol, Incorporated, St. Petersburg, Fla.
Filed July 31, 1950, Serial No. 601,493. Published June 10, 1952. Class 16.

563,803. Candy. The Euclid Candy Company, Inc., Brooklyn, N. Y.
Filed Aug. 2, 1950, Serial No. 601,610. Published June 10, 1952. Class 46.

563,804. Shipping Boxes and Tote Boxes, Composed of Chemically Hardened Fiberboard. Convoy, Incorporated, Canton, Ohio.
Filed Aug. 7, 1950, Serial No. 601,819. Published June 17, 1952. Class 2.

563,805. Chemical Preparation for Control of Mice and Rats. Seacoast Laboratories Inc., New York, N. Y.
Filed Aug. 19, 1950, Serial No. 602,474. Published June 10, 1952. Class 6.

563,806. Women's Slips and Hosiery. Julius Kayser & Co., New York, N. Y.
Filed Sept. 1, 1950, Serial No. 603,064. Published June 17, 1952. Class 39.

563,807. Thermosetting Plastic Having Uses in the Construction Field. George W. Rappleyea, Southport, N. C.
Filed Sept. 13, 1950, Serial No. 603,499. Published May 27, 1952. Class 6.

563,808. Carved Figures, Wholly or Principally of Wood, More or Less Grotesquely Suggestive of Living Creatures Either Animal or Human. Ralph M. Harper, Winthrop, Mass.
Filed Sept. 14, 1950, Serial No. 603,527. Published May 27, 1952. Class 50.

563,809. Cough Sedative Preparation Containing a Non-Exempt Narcotic. Tablerock Laboratories, Inc., doing business under the style name Tablerock Laboratories, Greenville, S. C.
Filed Sept. 22, 1950, Serial No. 603,902. Published Aug. 7, 1951. Class 18.

563,810. Books for Boys and Girls. Grosset & Dunlap, Inc., New York, N. Y.
Filed Oct. 2, 1950, Serial No. 604,299. Published June 10, 1952. Class 38.

563,811. Multiple Vitamin Preparations. Foods Plus, Inc., New York, N. Y.
Filed Oct. 4, 1950, Serial No. 604,428. Published Mar. 25, 1952. Class 18.

563,812. Blended Vegetable Oils for Popping Corn. The Blanton Company, St. Louis, Mo.
Filed Oct. 19, 1950, Serial No. 605,139. Published May 13, 1952. Class 46.

563,813. Food Flavoring and Spice Extracts; Food Colors; Spices, Meat Seasoning, Etc. B. Heller & Company, Chicago, Ill.
Filed Oct. 27, 1950, Serial No. 605,479. Published May 13, 1952. Class 46.

563,814. Mounting Hardware for Garage Doors, Hinges, and Door Pulls, All Fabricated of Metal. Roscoe Fowler, doing business under the name and style of Sturdee Steel Products Company, Los Angeles, Calif.
Filed Nov. 4, 1950, Serial No. 605,899. Published June 17, 1952. Class 13.

563,815. Coffee Pots Having a Self Contained Heating Unit. Caffe Espresso Inc., New York, N. Y.
Filed Nov. 9, 1950, Serial No. 606,136. Published May 6, 1952. Class 34.

563,816. Adrenocorticotrophic Composition. Armour and Company, Chicago, Ill.
Filed Nov. 13, 1950, Serial No. 606,253. Published June 3, 1952. Class 18.

563,817. Pharmaceutical Preparation Which Combines the Tonic, Stimulant Properties of the Glycerophosphate Salts With Several of the B-Complex Vitamins for Treating Certain Malnutrition or Subnutritional States. The S. E. Massengill Company, Bristol, Tenn.
Filed Nov. 17, 1950, Serial No. 606,546. Published June 3, 1952. Class 18.

563,818. Veterinary Preparation Which Serves as a Bitter Chalybeate Tonic and Hematinic for the Treatment of Nutritional and Secondary Anemias in Animals. The S. E. Massengill Company, Bristol, Tenn.
Filed Nov. 17, 1950, Serial No. 606,548. Published June 3, 1952. Class 18.

563,819. Pharmaceutical Panvitamin Preparation Indicated for the Treatment of Multiple Vitamin Deficiencies and Macrocytic Anemias. The S. E. Massengill Company, Bristol, Tenn.
Filed Nov. 17, 1950, Serial No. 606,553. Published June 3, 1952. Class 18.

563,820. Surface-Active Agent Demonstrating Cation-Active Characteristics, Used as an Additive for Acidic Pickling Liquor and in the Manufacture of Cosmetics and as an Additive to Bactericidal Agents To Increase and Extend the Effect Thereof. Refined Products Corporation, Lyndhurst, N. J.
Filed Nov. 22, 1950, Serial No. 606,808. Published May 20, 1952. Class 52.

563,821. Fire-Retardant Paint and Varnishes. Anglo-American Export Co. Limited, London, England.
Filed Dec. 19, 1950, Serial No. 607,838. Published June 17, 1952. Class 16.

563,822. Chemotherapeutic Agent for Use in the Sulphonamide Therapy. Ciba Limited, Basel, Switzerland.
Filed Dec. 21, 1950, Serial No. 607,941. Published May 13, 1952. Class 18.

563,823. Concentrated Orange Juice. Stepfreeze, Inc., Dayton, Ohio.
Filed Dec. 29, 1950, Serial No. 608,227. Published June 17, 1952. Class 46.

563,824. Medicament To Aid in the Healing of Wounds. Saul Caspe, New York, N. Y.
Filed Jan. 3, 1951, Serial No. 608,299. Published May 13, 1952. Class 18.

563,825. Anti-Spasmodic. Schieffelin & Co., New York, N. Y.
Filed Jan. 18, 1951, Serial No. 608,955. Published May 13, 1952. Class 18.

563,826. Frozen Fish—Namely, Cod, Haddock, Ocean Catfish, Halibut, Ocean Perch, and Whale Meat. Norsk Frossenfisk A/L, Oslo, Norway.
Filed Jan. 23, 1951, Serial No. 609,137. Published May 27, 1952. Class 46.

563,827. Children's Play Suits. Hortex Manufacturing Co., Inc., El Paso, Tex.
Filed Jan. 24, 1951, Serial No. 609,178. Published June 17, 1952. Class 39.

563,828. Pharmaceutical Product Combining Penicillin and Other Therapeutic Agents, Including Sulfonamides, Administered Orally. Schenley Laboratories, Inc., New York, N. Y.
Filed Jan. 24, 1951, Serial No. 609,202. Published May 13, 1952. Class 18.

563,829. Venetian Blinds. Globe Venetian Blind Corporation, Baltimore, Md.
Filed Jan. 25, 1951, Serial No. 609,239. Published June 17, 1952. Class 32.

563,830. Boys' Garments—Namely, Suits, Sport Coats, Slacks, Shorts, Jackets, Leisure Coats, Leisure Suits, Storm Coats, Top Coats, and Sur Coats. Lee-Wald Garment Company, Kansas City, Mo.
Filed Feb. 7, 1951, Serial No. 609,729. Published June 17, 1952. Class 39.

563,831. Ladies' Wearing Apparel—Namely, Underwear, Nightgowns, Slips, Petticoats, Pajamas, Bloomers, Vests, Panties, Lounging and Hostess Robes. Dutchess Underwear Corporation, New York, N. Y.
Filed Feb. 14, 1951, Serial No. 610,050. Published Oct. 23, 1951. Class 39.

563,832. Infants' and Children's Coats, Hats, Vests, Rompers, Sweaters, Booties, Slippers, Overalls, Jumpers, Trousers, Robes, Scarves, and Mittens. Merry Hull & Company, New York, N. Y.
Filed Feb. 16, 1951, Serial No. 610,181. Published June 17, 1952. Class 39.

563,833. Wallets, Key Cases, Memo Purses, Pocket Secretaries, and Card Cases. Sallent, Inc., East Longmeadow, Mass.
Filed Feb. 17, 1951, Serial No. 610,232. Published June 10, 1952. Class 3.

563,834. Strontium Lactate in Dosage Form. Wyeth Incorporated, Philadelphia, Pa.
Filed Feb. 20, 1951, Serial No. 610,352. Published June 3, 1952. Class 18.

563,835. Bowl Covers, Jar and Bottle Covers, Machinery Covers, Food Covers, Appliance Covers, Made of Synthetic Plastic Sheeting. Protex Producta Company, Inc., Jersey City, N. J.
Filed Feb. 27, 1951, Serial No. 610,583. Published June 17, 1952. Class 50.

563,836. Insect Powder. J. L. Hopkins & Company, Brooklyn, N. Y.
Filed Mar. 1, 1951, Serial No. 610,688. Published June 17, 1952. Class 6.

563,837. Cleaning and Polishing Compounds, in Both Paste and Liquid Form, Etc. The Simoniz Company, Chicago, Ill., now by change of name Simoniz Company.
Filed Mar. 10, 1951, Serial No. 611,151. Published June 10, 1952. Class 4.

563,838. Chrome and Metal Cleaner in Liquid Form, and for a Tar Solvent in Liquid Form. The Simoniz Company, Chicago, Ill., now by change of name Simoniz Company.
Filed Mar. 10, 1951, Serial No. 611,152. Published June 10, 1952. Class 52.

563,839. Solid Desiccant. McIntire Connector Company, Newark, N. J.
Filed Mar. 12, 1951, Serial No. 611,182. Published June 10, 1952. Class 6.

563,840. Wall Shelves, Mirrored Wall Shelves, Shadow Boxes, and Mirrors for Use in Connection With Furniture. Handy-Andy Specialty Co., Inc., Long Island City, N. Y.
Filed Mar. 15, 1951, Serial No. 611,357. Published June 17, 1952. Class 32.

563,841. Men's, Women's, and Children's Sport Shirts, Sport Jackets, Slacks, and Lounging Pajamas. Clarke's Clothiers, Tulsa, Okla.
Filed Mar. 23, 1951, Serial No. 611,685. Published June 17, 1952. Class 39.

563,842. Oil and Gas Burning Space Heaters. Morrison Steel Products Inc., Buffalo, N. Y.
Filed Mar. 23, 1951, Serial No. 611,714. Published May 27, 1952. Class 34.

563,843. Cast Metal Valves and Pipe Fittings. Walworth Company, Boston, Mass.
Filed Mar. 27, 1951, Serial No. 611,867. Published June 10, 1952. Class 13.

563,844. Cast Metal Valves and Pipe Fittings. Walworth Company, Boston, Mass.
Filed Mar. 27, 1951, Serial No. 611,868. Published June 10, 1952. Class 13.

563,845. Dye-Stuffs and Pigment Colors for Use in Coloring Textiles, Leathers, and Papers. Nova Chemical Corporation, New York, N. Y.
Filed Mar. 9, 1951, Serial No. 612,055. Published June 3, 1952. Class 6.

563,846. Synthetic Resin Compositions—Namely, Resins in Solid or Fluid Form. The Marblette Corporation, Long Island City, N. Y.
Filed Apr. 6, 1951, Serial No. 612,336. Published June 17, 1952. Class 6.

563,847. Solution of Sodium Fluoride and Water To Be Used in Drinking Water. Jesse B. Helfrich, doing business under the assumed name of Aqua-Flor, Portland, Oreg.
Filed Apr. 9, 1951, Serial No. 612,396. Published June 17, 1952. Class 6.

563,848. Pants and Trousers. Paramount Manufacturing Co., Inc., St. Louis, Mo.
Filed Apr. 9, 1951, Serial No. 612,412. Published June 17, 1952. Class 39.

563,849. Fresh Citrus Fruits and Frozen Concentrated Citrus Juices. Chester C. Fosgate Co., Forest City, Fla.
Filed Apr. 13, 1951, Serial No. 612,601. Published May 27, 1952. Class 46.

563,850. Fluxes, Consisting Essentially of Metal Halide Mixtures; Caustic Alkalies; Caustic Soda; Water Soluble Alcohols; Anti-Freeze Compositions Consisting Essentially of Aqueous Mixtures of Alcohols; Bright Dips, Consisting Essentially of Acids and Rust Inhibitors. Riverside Chemical Company, Incorporated, North Tonawanda, N. Y.
Filed Apr. 14, 1951, Serial No. 612,666. Published June 17, 1952. Class 6.

563,851. Billfolds, Pocket Secretaries, Key Cases, and Empty Comb and File Cases. Enger-Kress Company, West Bend, Wis.
Filed Apr. 23, 1951, Serial No. 612,996. Published June 10, 1952. Class 3.

563,852. Piece Goods of Cotton, Wool, Synthetic Fibers, and Combinations Thereof. Robbins Mills, Inc., New York, N. Y.
Filed Apr. 23, 1951, Serial No. 613,024. Published June 17, 1952. Class 42.

563,853. Multivitamin Preparation. U. S. Vitamin Corporation, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,271. Published Feb. 19, 1952. Class 18.

563,854. Liquid and Powdered Insecticides; Liquid and Powdered Disinfectants. Industrial Chemical Laboratories, Inc., Omaha, Nebr.
Filed May 4, 1951, Serial No. 613,510. Published June 17, 1952. Class 6.

563,855. Antiseptic Preparation in Liquid and Solid Form. West Laboratories, Inc., Long Island City, N. Y.
Filed May 4, 1951, Serial No. 613,542. Published June 17, 1952. Class 18.

563,856. Lock Nuts. National Electric Products Corporation, Pittsburgh, Pa.
Filed May 10, 1951, Serial No. 613,722. Published June 17, 1952. Class 13.

563,857. Writing Ink, Ruling Ink, Brushing Ink and Typewriter Ribbons. Ditto, Incorporated, Chicago, Ill.
Filed May 12, 1951, Serial No. 613,806. Published June 17, 1952. Class 11.

563,858. Children's Dresses and Blouses. The Baylis Brothers Company, Cincinnati, Ohio.
Filed May 18, 1951, Serial No. 614,036. Published June 17, 1952. Class 39.

563,859. Preparations for Killing Plant Nematodes in or on Plant Material and in the Soil. British Alkaloids Limited, London, England.
Filed May 18, 1951, Serial No. 614,037. Published May 27, 1952. Class 6.

563,860. Effervescent Preparation Consisting of Aspirin, Tartaric Acid, Citric Acid, Sodium, Bicarbonate, Sugar and Oil of Lemon, and Used for the Relief of Simple Headaches, Neuralgia, Muscular Aches and Pains. Emalist Company, Oak Park, Ill.
Filed May 19, 1951, Serial No. 614,083. Published May 13, 1952. Class 18.

563,861. Medicinal Preparations for the Relief of Colds, Headaches, Fevers, Nasal Congestion, and Muscular Aches and Pains. The Grove Laboratories, Inc., St. Louis, Mo.
Filed May 28, 1951, Serial No. 614,438. Published May 13, 1952. Class 18.

563,862. Antibacterial Preparation. E. R. Squibb & Sons, New York, N. Y.
Filed May 28, 1951, Serial No. 614,467. Published June 3, 1952. Class 18.

563,863. Amines and Mixtures Thereof. Sharples Chemicals Inc., Philadelphia, Pa.
Filed May 31, 1951, Serial No. 614,580. Published June 10, 1952. Class 6.

563,864. Handkerchiefs. Peerless Wolfson Company, Chicago, Ill.
Original filed, act of 1946, Supplemental Register, June 2, 1951; amended to application, Principal Register, Mar. 29, 1952, Serial No. 614,668. Published June 17, 1952. Class 39.

563,865. Printing Inks. Interchemical Corporation, New York, N. Y.
Filed June 5, 1951, Serial No. 614,777. Published June 17, 1952. Class 11.

563,866. Clerical Vests. Victoria T. Hauer, Dayton, Ohio.
Filed June 9, 1951, Serial No. 614,988. Published June 17, 1952. Class 39.

563,867. Liquid-Fuel and Gas-Fired Water Heaters. Clayton & Lambert Manufacturing Company, Louisville, Ky.
Filed June 13, 1951, Serial No. 615,107. Published May 13, 1952. Class 34.

563,868. Dust Caps for Grease Fittings. Olson Tool Company, Minneapolis, Minn.
Filed June 16, 1951, Serial No. 615,281. Published June 17, 1952. Class 13.

563,869. Anti-Freeze Coolant for Internal Combustion Engines. Prairie States Oil & Grease Company, Danville, Ill.
Filed June 16, 1951, Serial No. 615,287. Published June 3, 1952. Class 6.

563,870. Children's Panties. Mam'selle Lingerie, Inc., New York, N. Y.
Filed June 18, 1951, Serial No. 615,336. Published June 17, 1952. Class 39.

563,871. Liquid Medicinal Soap, and for Medicinal Skin, Scalp, and Hair Lotion for the Medical Treatment of the Skin, Scalp, and Hair. F. N. Kalert Co., Maplewood, Mo.
Filed June 25, 1951, Serial No. 615,648. Published May 13, 1952. Class 18.

563,872. Paper Cartons. Marathon Corporation, Rothschild, Wis.
Filed June 27, 1951, Serial No. 615,784. Published Apr. 22, 1952. Class 2.

563,873. Fumigant for Combatting Insects. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed July 3, 1951, Serial No. 616,020. Published June 17, 1952. Class 6.

563,874. Agents for Leveling Dyeings. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed July 3, 1951, Serial No. 616,023. Published June 17, 1952. Class 6.

563,875. Chemical Composition for Improving Moisture Fastness of Substantive Dyeings. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed July 3, 1951, Serial No. 616,024. Published June 17, 1952. Class 6.

563,876. Stabilized Vitamin A Preparation. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed July 5, 1951, Serial No. 616,122. Published May 13, 1952. Class 18.

563,877. Pipes and Pipe Fittings—Namely, Threaded Pipe Joints and Threaded Pipe Couplings. General Ceramics and Steatite Corp., Keasbey, N. J., assignor to Falls Industries, Inc., Solon, Ohio.
Filed July 6, 1951, Serial No. 616,166. Published June 17, 1952. Class 13.

563,878. Font Assortments of Letters and Figures and Illustrating Accessories for Use in Making Up Changeable or Permanent Signs. Frank P. Mitten, Redlands, Calif.
Filed July 6, 1951, Serial No. 616,180. Published May 13, 1952. Class 50.

563,879. Ceramics—Namely, Figurines. Harold B. Mechler and Julene Mechler, Kaneohe, Oahu, Territory of Hawaii.
Filed July 20, 1951, Serial No. 616,723. Published May 13, 1952. Class 50.

563,880. Artificial Casings Used in the Manufacture of Skinless Sausage. Transparent Package Company, Chicago, Ill.
Filed July 21, 1951, Serial No. 616,785. Published June 17, 1952. Class 2.

563,881. Cotton Piece Goods. M. Lowenstein & Sons, Inc., New York, N. Y.
Filed July 27, 1951, Serial No. 617,043. Published June 17, 1952. Class 42.

563,882. Overalls, Coats, Vests, Pants, Shirts, and Caps. Hamilton Carhartt Overall Co., Inc., Detroit, Mich.
Filed July 30, 1951, Serial No. 617,112. Published June 17, 1952. Class 39.

563,883. Herbicides. Union Carbide and Carbon Corporation, New York, N. Y.
Filed Aug. 8, 1951, Serial No. 617,463. Published June 3, 1952. Class 6.

563,884. Pharmaceutical Preparation for Application to the Skin, for an Antiseptic, Insect Repellant, and Sunburn Preventative Purposes. Buckman Laboratories, Inc., Memphis, Tenn.
Filed Aug. 9, 1951, Serial No. 617,485. Published May 20, 1952. Class 18.

563,885. Petroleum Base Composition Used for Water-Proofing Leather Goods, Particularly Boots and Shoes. George H. Flowers, Jr., doing business as Dominion Chemical Company, Richmond, Va.
Filed Aug. 14, 1951, Serial No. 617,660. Published June 3, 1952. Class 6.

563,886. Regenerated Cellulose Film. Olin Industries, Inc., East Alton, Ill.
Filed Aug. 15, 1951, Serial No. 617,725. Published July 1, 1952. Class 1.

563,887. Regenerated Cellulose Film. Olin Industries, Inc., East Alton, Ill.
Filed Aug. 15, 1951, Serial No. 617,726. Published July 1, 1952. Class 1.

563,888. Regenerated Cellulose Film. Olin Industries, Inc., East Alton, Ill.
Filed Aug. 15, 1951, Serial No. 617,727. Published July 1, 1952. Class 1.

563,889. Candy. Riley Brothers (Halifax) Limited, Halifax, Yorkshire, England.
Filed Aug. 15, 1951, Serial No. 617,731. Published June 10, 1952. Class 46.

563,890. Hard Surface Wall Covering of the Nature of Linoleum. Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa.
Filed Aug. 15, 1951, Serial No. 617,732. Published June 10, 1952. Class 20.

563,891. Dresses, Skirts, Blouses, Slacks, Petticoats, Suits, Stoles, Vestees, Boleros, and Jackets for Ladies. Morris M. Hoff, doing business as Fashion Manufacturing Company, Detroit, Mich.
Filed Aug. 17, 1951, Serial No. 617,797. Published June 3, 1952. Class 39.

563,892. Stoves. United States Stove Company, South Pittsburg, Tenn.
Filed Aug. 20, 1951, Serial No. 617,896. Published June 10, 1952. Class 34.

563,893. Textile Fabrics Made of Wool and Synthetic Fibers and Combinations Thereof. Deering, Milliken & Co., Inc., New York, N. Y.
Filed Aug. 22, 1951, Serial No. 617,948. Published Jan. 29, 1952. Class 42.

563,894. Liniment. Diana Co. of New York, Flushing, N. Y.
Filed Aug. 22, 1951, Serial No. 617,949. Published May 13, 1952. Class 18.

563,895. Typewriter Ribbons and Carbon Paper. A. P. Little, Inc., Rochester, N. Y.
Filed Aug. 28, 1951, Serial No. 618,171. Published June 17, 1952. Class 11.

563,896. Handkerchiefs. Almark Handkerchief Co., Inc., New York, N. Y., assignor to Kleenchief Co. Inc., New York, N. Y., a corporation of New York.
Filed Sept. 4, 1951, Serial No. 618,331. Published June 17, 1952. Class 39.

563,897. Silicate of Soda and Silicate of Potash in Solid or Liquid Form Either Alone or in Admixture With Other Chemicals. Philadelphia Quartz Company, Philadelphia, Pa.
Filed Sept. 6, 1951, Serial No. 618,469. Published June 10, 1952. Class 6.

563,898. Fresh and Frozen Dressed Poultry. Denison Poultry & Egg Company, Denison, Tex.
Filed Aug. 27, 1951, Serial No. 618,109. Published May 13, 1952. Class 46.

563,899. Sulfa Suspension Intended for Certain Enteric Disorders in Animals. Abbott Laboratories, North Chicago, Ill.
Filed Sept. 10, 1951, Serial No. 618,563. Published May 13, 1952. Class 18.

563,900. Reagents Comprising Foam Inhibiting or Preventative Agents. Petrolite Corporation, Ltd., Webster Groves, Mo., now by change of name Petrolite Corporation.
Filed Sept. 10, 1951, Serial No. 618,597. Published June 10, 1952. Class 6.

563,901. Medical Preparation for the Treatment of Essential Hypertension and as a Prophylactic Measure in Combatting Malignant Hypertension. The S. E. Massengill Company, Bristol, Tenn.
Filed Sept. 11, 1951, Serial No. 618,643. Published May 13, 1952. Class 18.

563,902. Lead Oxide, Mixtures of Lead Oxide With Lead Chromate, Etc. National Lead Company, Sayreville, N. J., and New York, N. Y.
Filed Sept. 12, 1951, Serial No. 618,711. Published June 10, 1952. Class 6.

563,903. Medicinal Preparation for the Treatment of Endocrine and Metabolic Diseases. The Upjohn Company, Kalamazoo, Mich.
Filed Sept. 28, 1951, Serial No. 619,371. Published May 20, 1952. Class 18.

563,904. Penicillin and Streptomycin in Combined Dosage Form. Wyeth Incorporated, Philadelphia, Pa.
Filed Sept. 28, 1951, Serial No. 619,372. Published May 20, 1952. Class 18.

563,905. Defoaming Agent. El Dorado Oil Works, San Francisco, Calif.
Filed Sept. 29, 1951, Serial No. 619,384. Published June 10, 1952. Class 6.

563,906. Mixture of Fatty Acids Suitable for Use in Making Soap. El Dorado Oil Works, San Francisco, Calif.
Filed Sept. 29, 1951, Serial No. 619,385. Published June 10, 1952. Class 6.

563,907. Photographic Prints. Warren Michaels, doing business under the name of Little Studios, Atlanta, Ga.
Filed Oct. 3, 1951, Serial No. 619,547. Published June 10, 1952. Class 38.

563,908. Stabilizers for Synthetic Resins. Synthetic Products Co., Cleveland, Ohio.
Filed Oct. 5, 1951, Serial No. 619,656. Published June 17, 1952. Class 6.

563,909. Chemical Preparation Designed for Controlling and Destroying Weeds. O. M. Scott & Sons Company, Marysville, Ohio.
Filed Oct. 11, 1951, Serial No. 619,897. Published June 17, 1952. Class 6.

563,910. Pickles and Pickle Relishes, Canned Peppers, Cider and White Vinegar, Mustard, Canned Sauerkraut. The Albro Packing Company, Springboro, Pa.
Filed Oct. 12, 1951, Serial No. 619,909. Published June 17, 1952. Class 46.

563,911. Sulfonates. Bryton Chemical Co., Elizabeth, N. J.
Filed Oct. 19, 1951, Serial No. 620,194. Published June 10, 1952. Class 6.

563,912. Men's Cravats, Braces, Belts, and Garters, and Women's Scarfs. Gem-Dandy, Inc., Madison, N. C.
Filed Oct. 22, 1951, Serial No. 620,310. Published June 17, 1952. Class 39.

563,913. Moth-Repellent Crystals and Pressed Blocks Made of Moth-Repellent Crystals, the Crystals and the Blocks Having Incorporated Therein a Deodorant. Click Chemical Corporation, Mount Vernon, N. Y.
Filed Oct. 22, 1951, Serial No. 620,311. Published June 17, 1952. Class 6.

563,914. Cheese. Bluebird Dairy Products Corp., New York, N. Y.
Filed Oct. 24, 1951, Serial No. 620,391. Published June 17, 1952. Class 46.

563,915. Combined Air-Odor Neutralizing Wick and Container. Airplant Corp., New York, N. Y.
Filed Oct. 25, 1951, Serial No. 620,452. Published June 17, 1952. Class 6.

563,916. Fabrics in the Piece of Synthetic Fibers. National Mallinson Fabrics Corporation, New York, N. Y., assignor to Burlington Mills Corporation, Greensboro, N. C., a corporation of Delaware.
Filed Oct. 27, 1951, Serial No. 620,549. Published June 10, 1952. Class 42.

563,917. Dog Food. The R. T. French Company, Rochester, N. Y.
Filed Oct. 29, 1951, Serial No. 620,596. Published May 13, 1952. Class 46.

563,918. Float-Controlled Valve Units for Irrigation Systems. Stanley E. Shaffer, Merced, Calif.
Filed Oct. 31, 1951, Serial No. 620,747. Published June 17, 1952. Class 13.

563,919. Ink for Stenciling or Marking Metal Surfaces. Binney & Smith Company, New York, N. Y.
Filed Nov. 2, 1951, Serial No. 620,798. Published June 17, 1952. Class 11.

563,920. Weed Control Preparation Consisting of a Mixture of Sodium Pentaborate, Sodium Tetraborate, Sodium Chlorate, and Inert Ingredients. Borax Consolidated, Limited, London, England, doing business as Pacific Coast Borax Co., Division of Borax Consolidated, Limited, Los Angeles, Calif.
Filed Nov. 10, 1951, Serial No. 621,099. Published June 10, 1952. Class 6.

563,921. Periodical Published at Irregular Intervals Devoted Primarily to Hand Knitting and Crocheting. Botany Mills, Inc., Passaic, N. J.
Filed Nov. 10, 1951, Serial No. 621,100. Published June 10, 1952. Class 38.

563,922. Monthly Magazine. Bagatelle Publishing Co. Inc., New York, N. Y.
Filed Nov. 13, 1951, Serial No. 621,125. Published June 10, 1952. Class 38.

563,923. Magazine Issued Bi-Monthly. Close-Up, Inc., New York, N. Y., Chicago, Ill., Los Angeles, Calif., and St. Louis, Mo.
Filed Nov. 13, 1951, Serial No. 621,133. Published June 10, 1952. Class 38.

563,924. Bird and Aviary Spray for Destroying Parasites, Insects, and Vermin. House of Huston, Inc., Miami, Fla.
Filed Nov. 13, 1951, Serial No. 621,149. Published June 10, 1952. Class 6.

563,925. Sinks, Bathtubs, Brass Faucets and Fluid Valves, Toilet Seats, Tubular Brass Traps and Sink Strainers. Jack Goldberg Co., Chicago, Ill.
Filed Nov. 14, 1951, Serial No. 621,206. Published June 17, 1952. Class 13.

563,926. Frothing Agents for Use in Concentration of Ores. American Cyanamid Company, New York, N. Y.
Filed Nov. 15, 1951, Serial No. 621,249. Published June 10, 1952. Class 6.

563,927. House Organ. Micromatic Hone Corporation, Detroit, Mich.
Filed Nov. 16, 1951, Serial No. 621,326. Published June 10, 1952. Class 38.

563,928. Overalls. Williamson-Dickie Manufacturing Company, Fort Worth, Tex.
Filed Nov. 21, 1951, Serial No. 621,535. Published June 17, 1952. Class 39.

563,929. Preparation in Powder Form for Desulfating Electric Storage Batteries. Battrix Products, Chicago, Ill.
Filed Nov. 28, 1951, Serial No. 621,749. Published June 17, 1952. Class 6.

563,930. Plastic Household Articles — Namely, Cups, Saucers, Plates, Tumblers, Bowls, Facial Tissue Holders, Soap Boxes, and Toothbrush Holders. United Plastic Corporation, Fitchburg, Mass.
Filed Nov. 28, 1951, Serial No. 621,793. Published June 17, 1952. Class 2.

563,931. Air Dryers Operated by Mechanical Refrigeration Action. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,036. Published June 17, 1952. Class 34.

563,932. Fringed Leather Item of Wearing Apparel To Be Worn About Ankles, Neck, or Waist. Marjorie H. Carter, Phoenix, Ariz.
Filed Dec. 6, 1951, Serial No. 622,140. Published June 17, 1952. Class 39.

563,933. Wrapping Twine, Baler Twine, Binder Twine, and Rope. Van Waters & Rogers, Inc., Seattle, Wash.
Filed Dec. 10, 1951, Serial No. 622,318. Published June 17, 1952. Class 7.

563,934. Girdles. Lewel Manufacturing Co., Inc., New York, N. Y.
Filed Dec. 11, 1951, Serial No. 622,340. Published June 17, 1952. Class 39.

563,935. Fresh Vegetables. G & B Produce Co., San Jose, Calif.
Filed Dec. 18, 1951, Serial No. 622,646. Published May 27, 1952. Class 46.

563,936. Fresh Vegetables. G & B Produce Co., San Jose, Calif.
Filed Dec. 18, 1951, Serial No. 622,647. Published May 27, 1952. Class 46.

563,937. Men's Outer Belts. Knothe Brothers Co. Inc., New York, N. Y.
Filed Dec. 21, 1951, Serial No. 622,749. Published June 17, 1952. Class 39.

563,938. Canvas Products—Namely, Tarpaulins, Awnings, Truck Covers, and Hatch Covers. Samuel Brown, doing business as Brown & Brown, Mobile, Ala.
Filed Nov. 9, 1951, Serial No. 622,970. Published June 10, 1952. Class 50.

563,939. Antituberculosis Compound. Hoffmann - La Roche Inc., Nutley, N. J.
Filed Jan. 5, 1952, Serial No. 623,250. Published June 17, 1952. Class 18.

563,940. Fabrics of Silk, Wool, Cotton, Man-Made Fibers, and Combinations Thereof. William Skinner & Sons, Holyoke, Mass., and New York, N. Y.
Filed Feb. 7, 1952, Serial No. 624,665. Published June 17, 1952. Class 42.

563,941. Textile Fabrics in the Piece Made of Imported and Domestic Spun Rayon Yarns. Stunzi Sons Silk Company, Inc., New York, N. Y.
Filed Feb. 7, 1952, Serial No. 624,666. Published June 17, 1952. Class 42.

563,942. Cotton Piece Goods. Cone Export and Commission Co., Inc., New York, N. Y.
Filed Feb. 15, 1952, Serial No. 625,002. Published June 17, 1952. Class 42.

Service Marks

563,943. Transportation of Persons, Mail, and Property by Air. United Air Lines, Inc., Chicago, Ill.
Filed Sept. 9, 1947, Serial No. 533,953. Published June 17, 1952. Class 105.

563,944. Underwriting of Life Insurance. Self Help Life Assurance Society, Chicago, Ill.
Filed Apr. 6, 1950, Serial No. 595,334. Published June 17, 1952. Class 102.

563,945. Air Transportation of Passengers. American Airlines, Inc., New York, N. Y.
Filed July 25, 1950, Serial No. 601,184. Published June 17, 1952. Class 105.

563,946. Arranging All-Expense Travel Tours, and the Air Transportation of Passengers in Connection Therewith. National Airlines, Incorporated, Miami, Fla.
Filed Oct. 24, 1950, Serial No. 605,368. Published June 17, 1952. Class 105.

563,947. Travel Services Comprising Arrangements for All Types of Transportation Including Air, Rail, Ship, and Bus Transportation, Charter Cruises, and for Hotel, Inn, and Resort Accommodations, to and in Any Part of the World. Edw. D. White & Assoc., Inc., Seattle, Wash.
Filed Apr. 23, 1951, Serial No. 613,035. Published June 17, 1952. Class 105.

563,948. Underwriting of Accident, Sickness, Hospitalization, Medical, and Surgery Insurance. Continental Casualty Company, Chicago, Ill.
Filed May 17, 1951, Serial No. 613,975. Published June 17, 1952. Class 102.

563,949. Advertising Services—Namely, Distributing to Consumers Coupons Which Are Redeemable as Part of the Purchase Price of the Manufacturer's Products, Preparing and Placing Tie-In Newspaper Advertisements. Advertising Distributors of America, Inc., New York, N. Y.
Filed Sept. 25, 1951, Serial No. 619,182. Published June 17, 1952. Class 101.

563,950. Transportation of Goods by Motor Van. National Van Lines, Inc., Chicago, Ill.
Filed Jan. 4, 1952, Serial No. 623,200. Published June 17, 1952. Class 105.

Certification Mark

563,951. Plastic Garment Bags, Blanket Bags, Shoe Bags, Shirt Bags, Sweater Bags, Bread Bags, Lettuce Bags, Food Bags. Fruit of the Loom, Inc., Providence, R. I.
Filed May 7, 1948, Serial No. 556,432. Published June 17, 1952. Class 2.

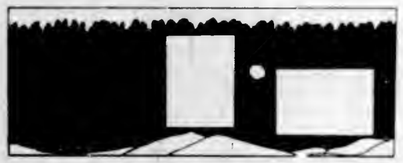
Collective Mark

563,952. Consulting Engineering Services in the Design, Construction, Installation, Operation, and Maintenance of Radio and Television Transmission and Reception Systems. Association of Federal Communications Consulting Engineers, Washington, D. C.
Filed May 11, 1949, Serial No. 578,560. Published June 17, 1952. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

563,953. (Class 46. Foods and Ingredients of Foods.) Pacific Grape Products Company, Modesto, Calif. Original filed, act of 1905, Nov. 25, 1946; amended to application under act of 1946, Principal Register, Jan. 30, 1950; amended to Supplemental Register Nov. 15, 1950, Serial No. 513,197.



The drawing is lined to indicate blue and purple.
For Canned Frozen Fresh Deciduous Fruits, Berries, Fruit Salad, Melon Balls, and Seedless Grapes.
Claims use since Aug. 21, 1946.

563,954. (Class 6. Chemicals and Chemical Compositions.) Chapman Chemical Company, Memphis, Tenn. Original filed, act of 1905, Jan. 18, 1947; amended to application under act of 1946, Supplemental Register, Sept. 30, 1948, Serial No. 515,934.

CHAPMAN

For Wood Preservatives, Rodenticides, Insecticides, Fumigants, Fungicides, and Weed Killers.
Claims use since Aug. 1, 1946.

563,955. (Class 46. Foods and Ingredients of Foods.) National Tea Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 1, 1947; amended to application, Supplemental Register, May 17, 1952, Serial No. 530,239.

AMERICAN DeLUXE

The term "De Luxe" is disclaimed.
For Coffee.
Claims use since Jan. 24, 1947.

563,956. (Class 52. Detergents and Soaps.) John H. Breck, Inc., Springfield, Mass. Original filed, act of 1946, Principal Register, Feb. 14, 1948; amended to application, Supplemental Register, Aug. 2, 1951, Serial No. 549,702.

Baby Breck

Applicant claims ownership of Registrations Nos. 285,031, 337,494, and others.
For Diaper Rash Ointment, Consisting of a Preparation for Soothing the Skin, and Liquid Soap.
Claims use since May 5, 1947.

563,957. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Truecraft Tool Company, by change of name from Otto Kaufman Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 12, 1948; amended to application, Supplemental Register, Sept. 9, 1949, Serial No. 551,812.

TRUECRAFT

For Pliers, Wrenches, and Screw Drivers.
Claims use since Dec. 30, 1947.

563,958. (Class 52. Detergents and Soaps.) J. A. Tumbler Laboratories, Inc., Baltimore, Md., assignor to The Bon Ami Company, New York, N. Y., a corporation of Delaware. Original filed, act of 1946, Principal Register, July 3, 1948; amended to application, Supplemental Register, Mar. 28, 1952, Serial No. 560,732.

GLASS-GLOSS

Applicant claims ownership of Registration No. 317,570.
For Compound for Cleaning All Glass Surfaces, Metals, Enamel, Tile, Porcelain, and the Like.
Claims use since Apr. 12, 1948.

563,959. (Class 51. Cosmetics and Toilet Preparations.) Elihu McDaniel, doing business as Mack's Manufacturing Co., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Aug. 23, 1948; amended to application, Supplemental Register, Jan. 10, 1950, Serial No. 563,863.



For Hair Pomade.
Claims use since 1926.

563,960. (Class 51. Cosmetics and Toilet Preparations.) Herb-Craft Health Products, Inc., Valparaiso, Ind. Original filed, act of 1946, Principal Register, Sept. 30, 1948; amended to application, Supplemental Register, Aug. 23, 1950, Serial No. 566,140.

Beauty-Craft

For Shampoo, Pomade, Brilliantine, Skin Lotion, Hand Cream, Cold Cream, Hair Dye, and Bath Oil.
Claims use since Feb. 15, 1946.

563,961. (Class 51. Cosmetics and Toilet Preparations.) Sales Affiliates, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 6, 1949; amended to application, Supplemental Register, Oct. 5, 1951, Serial No. 577,842.

FLUID WAVE

For Hair Waving Lotion.
Claims use since Dec. 17, 1946.

563,962. (Class 51. Cosmetics and Toilet Preparations.) Sales Affiliates, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 6, 1949; amended to application, Supplemental Register, Oct. 5, 1951, Serial No. 577,843.

PHIX

For Wave Setting Materials.
Claims use since Dec. 17, 1946.

563,963. (Class 51. Cosmetics and Toilet Preparations.) Sales Affiliates, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 6, 1949; amended to application, Supplemental Register, Oct. 5, 1951, Serial No. 577,844.

ZOTOS
FLUID WAVE

Applicant claims ownership of Registration No. 314,590.
For Hair Waving Lotion.
Claims use since Dec. 17, 1946.

563,964. (Class 18. Medicines and Pharmaceutical Preparations.) Foster-McClellan Co., doing business under the name and style of Laboratoires Lincoln, Buffalo, N. Y., and Paris, France. Original filed, act of 1946, Principal Register, May 26, 1949; amended to application, Supplemental Register, June 21, 1952, Serial No. 579,536.



The words "Pilules" and "Pour Les Maladies Des Reins et de la Vessie," which when translated mean "Pills" and "for Diseases of the Kidneys and Bladder," are disclaimed.
Applicant claims ownership of Registrations Nos. 68,743 and 38,031.
For Kidney and Bladder Pills.
Claims use since Mar. 23, 1949.

563,965. (Class 52. Detergents and Soaps.) John H. Breck, Inc., Springfield, Mass. Original filed, act of 1946, Principal Register, Sept. 3, 1949; amended to application, Supplemental Register, Apr. 13, 1951, Serial No. 584,437.



For Liquid Hair Cleansers; Hair Shampoos; and Liquid Soap Shampoos.
Claims use since May 12, 1949.

563,966. (Class 39. Clothing.) Holliday Pajamas, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 21, 1949; amended to application, Supplemental Register, Mar. 19, 1952, Serial No. 589,721.

T-JAMA

For Pajamas.
Claims use since Nov. 17, 1949.

563,967. (Class 21. Electrical Apparatus, Machines, and Supplies.) Motionair, Incorporated, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 17, 1950; amended to application, Supplemental Register, Sept. 18, 1951, Serial No. 594,139.

"SANITIZAIRE"

For Air Circulators Containing Cold Quartz Ray Emanating Tubes Through Which Rays Air Is Caused To Pass.
Claims use since Sept. 15, 1948.

563,968. (Class 51. Cosmetics and Toilet Preparations.) George Carmer, doing business as Carmer Barber Supply Co., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 8, 1950; amended to application, Supplemental Register, Feb. 16, 1952, Serial No. 595,445.

Sweet Spice

For Shaving Lotion.
Claims use since January 1946.

563,969. (Class 52. Detergents and Soaps.) Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware. Original filed, act of 1946, Principal Register, Apr. 18, 1950; amended to application, Supplemental Register, Feb. 18, 1952, Serial No. 595,869.

Karpet-Kare

For Detergent for Rugs.
Claims use since Apr. 27, 1949.

563,970. (Class 39. Clothing.) Jack Schwartz, doing business as Jackson Hosiery Company, Springfield, Mass. Original filed, act of 1946, Principal Register, Apr. 27, 1950; amended to application, Supplemental Register, Feb. 18, 1952, Serial No. 596,445.

Lady Windsor

The name "Lady Windsor" is fanciful.
For Women's Hosiery.
Claims use since Jan. 7, 1950.

563,971. (Class 39. Clothing.) M. K. M. Hosiery Mills, Inc., Boston, Mass. Original filed, act of 1946, Principal Register, May 4, 1950; amended to application, Supplemental Register, July 24, 1951, Serial No. 596,854. Applicant claims ownership of Registrations Nos. 379,502 and 524,935.

SPIRALTWIST-CREPE

For Ladies' Hosiery.
Claims use since Jan. 20, 1950.

563,972. (Class 39. Clothing.) M. K. M. Hosiery Mills, Inc., Boston, Mass. Original filed, act of 1946, Principal Register, May 4, 1950; amended to application, Supplemental Register, July 24, 1951, Serial No. 596,855.

SPIRAL-CREPE

Applicant claims ownership of Registrations Nos. 379,502 and 524,935.
For Ladies' Hosiery.
Claims use since Jan. 20, 1950.

563,973. (Class 4. Abrasives and Polishing Materials.) The Davies-Young Soap Company, Dayton, Ohio. Original filed, act of 1946, Principal Register, June 12, 1950; amended to application, Supplemental Register, Feb. 26, 1952, Serial No. 598,945.

TRED-SAFE

For Self-Polishing Liquid Wax for Floors.
Claims use since June 5, 1950.

563,974. (Class 39. Clothing.) Benco Togs, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 25, 1950; amended to application, Supplemental Register, Mar. 11, 1952, Serial No. 601,190.

Dearest Dress

For Infants' and Children's Dresses.
Claims use since May 25, 1950.

563,975. (Class 32. Furniture and Upholstery.) B. B. Butler Mfg. Co., Bellwood, Ill. Original filed, act of 1946, Principal Register, Aug. 1, 1950; amended to application, Supplemental Register, June 26, 1952, Serial No. 601,533.

PEG-BOARD

For Merchandise Display Racks Consisting of Perforated Boards or Panels and Brackets, Hooks, Racks, and Bars Insertable in Said Perforations and From Which Various Articles May Be Suspended.
Claims use since Jan. 27, 1948.

563,976. (Class 39. Clothing.) Wilker Bros. Co., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 30, 1950; amended to application, Supplemental Register, Mar. 4, 1952, Serial No. 602,985.

McKenzie

For Men's and Boys' Pajamas.
Claims use since Nov. 5, 1949.

563,977. (Class 39. Clothing.) Walter W. Moyer Company, Ephrata, Pa. Original filed, act of 1946, Principal Register, Oct. 12, 1950; amended to application, Supplemental Register, Sept. 20, 1951, Serial No. 604,794.

QUALITEES

For Men's, Women's, and Children's Underwear.
Claims use since Sept. 8, 1950.

563,978. (Class 32. Furniture and Upholstery.) Wood-Metal Industries, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 16, 1950; amended to application, Supplemental Register, Feb. 6, 1952, Serial No. 607,786.



For Kitchen Equipment of Wood, Fiberboard, Metal, Linoleum, Formica, Porcelain, Vinyl Plastics, and Combinations Thereof—Namely, Wall Cabinets, Base Cabinets, Broom Cabinets, Linen Cabinets, Sink Fronts and Compartments, Undersink Cabinets, Cabinet Fillers, Valances, Side Wall and Corner Wall Shelves, and Counter Tops.
Claims use since May 1948.

563,979. (Class 39. Clothing.) Branigan Green & Company, Baltimore, Md. Original filed, act of 1946, Principal Register, Jan. 31, 1951; amended to application, Supplemental Register, Mar. 13, 1952, Serial No. 609,432.

Branigans

For Men's, Women's, and Children's Drawers, Middy-Blouses, Pajamas, Union-Suits, and Undershirts; Men's and Children's Night-Shirts; Men's Dress, Negligee, and Work Shirts; Women's and Children's Blouses, Dresses, Middy-Suits, Night Gowns, Petticoats, Over and Under Shirts, Shorts, and Play Suits; Women's Brassières, Chemise, Kimonos, Negligees, Shirt Waists, Undervests, and Wrappers, and Children's Rompers.
Claims use since Dec. 18, 1950.

563,980. (Class 46. Foods and Ingredients of Foods.) The Frito Company, Dallas, Tex. Filed Feb. 6, 1951, Serial No. 609,679.

Ta-tos

Applicant claims ownership of Registration No. 368,656.
For Potato Chips.
Claims use since Aug. 29, 1949.

563,981. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Vittorio Necchi Società per Azioni, Pavia, Italy. Filed Feb. 7, 1951, Serial No. 609,751.

NECCHI

Priority under Sec. 44(d). Italian application S. N. 2,340, filed Dec. 29, 1950, Reg. No. 103,788, dated Oct. 17, 1951. Applicant claims ownership of Italian Registration No. 103,788.
For Sewing Machines.

563,982. (Class 30. Crockery, Earthenware, and Porcelain.) Johanna Ceramics, Costa Mesa, Calif. Original filed, act of 1946, Principal Register, Mar. 3, 1951; amended to application, Supplemental Register, June 21, 1952, Serial No. 610,790.

California REDWOOD

For Ceramic Pottery, Consisting of Drinking Vessels, Bowls, and Tableware.
Claims use since Dec. 7, 1950.

563,983. (Class 18. Medicines and Pharmaceutical Preparations.) Dr. Nicholas C. Strey, doing business as Kule-Fut Laboratories, Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 21, 1951; amended to application, Supplemental Register, Dec. 3, 1951, Serial No. 611,622.



The word "Cream" and the representation of the foot are disclaimed.
For Foot Cream for Use for the Treatment of Eczema, Ringworm, Insect Bites, Sore Aching Tired Perspiring Feet, and Athlete's Foot.
Claims use since March 1931.

563,984. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Giuseppe Ravasi, Como, Italy. Filed Nov. 8, 1951, Serial No. 621,029.

RAVASI

Applicant claims ownership of Italian Registration No. 101,078, dated Mar. 5, 1951.
For Textile Fabrics, Sold by the Yard and Bolt, of Silk or Synthetic Fibers.

563,985. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Buxton, Incorporated, Springfield, Mass. Filed Feb. 16, 1952, Serial No. 625,060.

Orleans

For Key Cases, Purses, Billfolds, Pocket Wallets, Card and Pass Cases.
Claims use since Aug. 8, 1950.

TRADE-MARK REGISTRATIONS RENEWED

37,744. TRYPTARGAN. Registered Feb. 4, 1902. Chemische Fabrik Rhenania, Aachen, Germany. Re-renewed Feb. 4, 1952, to Armour and Company, Chicago, Ill., a corporation of Illinois. Medical Preparations for Treatment of Wounds and Venereal Diseases. Class 18.

38,546. REPRESENTATION OF MEDALLION LINED FOR YELLOW, RED, AND BLACK. Registered July 1, 1902. Edward E. Dickinson & Co. Re-renewed July 1, 1952, to The E. E. Dickinson Co., Essex, Conn., a corporation of Connecticut. Certain Distilled Product of Witch-Hazel. Class 51.

39,008. INDIAN. Registered Oct. 7, 1902. George M. Hendee. Re-renewed Oct. 7, 1952, to Indian Sales Corporation, Springfield, Mass., a corporation of Delaware. Bicycles and Self-Propelled Road-Vehicles. Class 19.

86,437. DIXIE. Registered May 7, 1912. National Warehouse and Storage Company. Re-renewed May 7, 1952, to Dixie Mills Company, East St. Louis, Ill., a corporation of Illinois. Horse Feed. Class 46.

86,627. SIMCORE. Registered May 21, 1912. The Simplex Electrical Co., Boston, Mass. Re-renewed May 21, 1952, to Simplex Wire & Cable Company, Cambridge, Mass., a corporation of Massachusetts. Insulated Wire. Class 21.

86,689. SYSTEMAT. Registered May 28, 1912. American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls, Elmira, and Glendale, N. Y. Re-renewed May 28, 1952, to Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware. Sales-Books. Class 37.

86,690. REPRESENTATION OF STATUE OF HORSE ON PEDESTAL. Registered May 28, 1912. Barthels Mfg. Co., New York, N. Y. Re-renewed May 28, 1952, to Barthels Manufacturing Company, Inc., Glendale, N. Y., a corporation of New York. Braids, Shoe-Laces, Galloons, and Corset-Laces. Class 40.

86,827. IRONHIDE. Registered June 4, 1912. Patton Paint Company, Milwaukee, Wis. Re-renewed June 4, 1952, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Ready-Mixed Paint for Use as a Protective Coating for Metal Surfaces. Class 16.

86,854. MUG. Registered June 4, 1912. The J. B. Williams Company, Glastonbury, Conn., a corporation of Connecticut. Re-renewed June 4, 1952. Shaving and Toilet Soaps. Class 51.

87,403. "D J A" AND DESIGN. Registered July 16, 1912. David & John Anderson Limited, Glasgow, Scotland, a limited liability company registered under the laws of Great Britain. Re-renewed July 16, 1952. Cotton, Worsted, and Woolen Dress Goods and Shirtings. Class 42.

87,478. PORTAGE. Registered July 16, 1912. The E. A. Pflueger Company. Re-renewed July 16, 1952, to The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Fishing-Tackle. Class 22.

88,282. "RED STAR" AND DRAWING. Registered Sept. 10, 1912. The Heekin Spice Co., Cincinnati, Ohio. Re-renewed Sept. 10, 1952, to Red Star Yeast and Products Company, Milwaukee, Wis., a corporation of Wisconsin. Baking-Powder. Class 46.

88,344. "NISECO" AND DESIGN. Registered Sept. 10, 1912. The New London Ship & Engine Company. Re-renewed Sept. 10, 1952, to Electric Boat Company, Groton, Conn., a corporation of New Jersey. Internal-Combustion Engines. Class 23.

88,589. RHOCOM. Registered Oct. 1, 1912. James H. Rhodes & Company, Chicago, Ill., and New York, N. Y. Re-renewed Oct. 1, 1952, to James H. Rhodes & Company, Chicago, Ill., a corporation of Illinois. Chamois-Skins. Class 1.

88,743. "SOMETHING TO CROW ABOUT" AND REPRESENTATION OF A ROOSTER IN PANTS. Registered Oct. 22, 1912. Eloesser-Heynemann Co., San Francisco, Calif., a corporation of California. Re-renewed Oct. 22, 1952. Overalls. Class 39.

88,775. "MONITO" AND DRAWING. Registered Oct. 22, 1912. Moorhead Knitting Company, Harrisburg, Pa. Re-renewed Oct. 22, 1952, to Dwight S. Williams Co., Inc., New York, N. Y., a corporation of New York. Hosiery, Knit Underwear, and Sweaters. Class 39.

88,819. "THE JASON" AND DESIGN. Registered Oct. 22, 1912. Wooding & Teasdale, Leicester, England. Re-renewed Oct. 22, 1952, to F. Jacobson & Sons, Inc., New York, N. Y., a corporation of New York. Blouses, Aprons, Knitted Leggings, Bodices, Bonnets, Hats, Gaiters, Etc. Class 39.

292,406. "MOORHEAD" AND DRAWING. Registered Mar. 15, 1932. Moorhead Knitting Company, Inc., Harrisburg, Pa. Renewed Mar. 15, 1952, to Dwight S. Williams Co., Inc., New York, N. Y., a corporation of New York. Men's Socks. Class 39.

292,561. HIPERNIK. Registered Mar. 15, 1932. Westinghouse Electric and Manufacturing Company. Renewed Mar. 15, 1952, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania. Metal Alloys. Class 14.

293,717. PHENHYDE. Registered May 3, 1932. The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Renewed May 3, 1952. Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes. Class 16.

293,826. INDERM. Registered May 10, 1932. Synthetic Chemicals, Inc., Jersey City, N. J. Renewed May 10, 1952, to Synthetic Chemicals, Inc., Paterson, N. J., a corporation of New Jersey. Accelerating and Penetrating Agent for Use in the Dehairing, Tanning, and Bating Baths in the Processing of Leather. Class 6.

293,935. MICKEY MOUSE. Registered May 10, 1932. Cohn & Rosenberger, Inc. Renewed May 10, 1952, to Coro, Inc., New York, N. Y., a corporation of New York. Strings of Pearls, Necklaces, Bracelets, Earrings, Finger Rings, Brooches, Barpins, Etc. Class 28.

294,123. ORTHOPTOR. Registered May 17, 1932. American Optical Company, Southbridge, Mass., a voluntary association. Renewed May 17, 1952. Instrument for Exercising and Treating the Eyes. Class 44.

294,168. "SPORTFROX" AND DRAWING. Registered May 17, 1932. Max Wiesen & Sons Co., Inc., New York, N. Y., a corporation of New York. Renewed May 17, 1952. Ladies' Dresses. Class 39.

294,211. UNIVISE. Registered May 24, 1932. W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri. Renewed May 24, 1952. Connectors for Electrical Conductors. Class 21.

294,960. CORONA. Registered June 14, 1932. The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed June 14, 1952. Dental Supplies—Namely, Solder, Plate, Wire, Ingots, and Disks. Class 44.

295,024. SHEIK. Registered June 14, 1932. Julius Schmid. Renewed June 14, 1952, to Julius Schmid, Inc., New York, N. Y., a corporation of New York. Prophylactic Rubber and Membranous Articles for the Prevention of Contagious Diseases. Class 44.

295,294. PRIMROSE. Registered June 28, 1932. William Prym of America, Inc., New York and Long Island City, N. Y. Renewed June 28, 1952, to William Prym, Inc., Dayville, Conn., a corporation of New York. Common and Toilet Pins and Safety Pins Made of Non-Precious Metal. Class 40.

295,527. SAMSON. Registered July 5, 1932. Union Special Machine Company, Chicago, Ill., a corporation of Illinois. Renewed July 5, 1952. Sewing Machines. Class 23.

295,626. "STAG BRAND" AND DRAWING. Registered July 5, 1932. William Prym of America, Inc., New York and Long Island City, N. Y. Renewed July 5, 1952, William Prym, Inc., Dayville, Conn., a corporation of New York. Common and Toilet Pins, Safety Pins, Hairpins, T Head Pins, Needles for Sewing by Hand, Etc. Class 40.

295,923. "THREE STAR" AND DRAWING. Registered July 19, 1932. Harry Bettoney, doing business as Cundy-Bettoney Co., Boston, Mass. Renewed July 19, 1952, to The Cundy-Bettoney Co., Inc., Hyde Park, Mass., a corporation of Massachusetts. Soprano Clarinets, Bass and Alto Clarinets, Flutes, Piccolos, Oboes, Bassoons, Etc. Class 36.

295,925. STANOGEAR. Registered July 19, 1932. Standard Oil Company, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Renewed July 19, 1952. Lubricating Oils and Greases. Class 15.

296,134. TEGO. Registered July 26, 1932. Th. Goldschmidt A.-G., Essen-on-the-Ruhr, Germany. Renewed July 26, 1952, to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware. Cementing Medium in Sheet Form, Particularly Sheets Carrying Adhesive, for Making Compound Lumber, or Veneered Work. Class 5.

296,312. TROUBLEPROOF. Registered Aug. 2, 1932. William Skinner & Sons, New York, N. Y. Renewed Aug. 2, 1952, to William Skinner & Sons, Holyoke, Mass., and New York, N. Y., an association. Silk Crepes in the Piece. Class 42.

296,363. SARÁKA. Registered Aug. 2, 1932. Schering Corporation, New York, N. Y. Renewed Aug. 2, 1952, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey. Laxative Preparation. Class 18.

296,554. VITROBOND. Registered Aug. 9, 1932. The Atlas Mineral Products Company. Renewed Aug. 9, 1952, to The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa., a corporation of Pennsylvania. Acid Resisting Bonding and Lining Materials Used in the Construction of Tanks, Vats, Etc. Class 12.

296,621. PORTCULLIS DESIGN. Registered Aug. 16, 1932. Ellis Silver Company Inc. Renewed Aug. 16, 1952, to Barker Brothers Silver Company, Inc., New York, N. Y., a corporation of New York. Silver Plated Hollow Ware and Flatware. Class 28.

296,832. CAST-TEX. Registered Aug. 23, 1932. Burgess Cellulose Company, Madison, Wis. Renewed Aug. 23, 1952, to Burgess Cellulose Company, Freeport, Ill., a corporation of Delaware. Stereotype Mats. Class 50.

296,882. STEWART'S. Registered Aug. 23, 1932. A. L. Stewart & Sons, Cherryfield and Calais, Maine. Renewed Aug. 23, 1952, to A. L. Stewart & Sons, Cherryfield, Maine, a corporation of Maine. Canned Berries. Class 46.

296,951. "LA VIZCAYA" AND DRAWING. Registered Aug. 30, 1932. Jose Arechabala, S. A., Cardenas, Cuba, a corporation organized under the laws of the Republic of Cuba. Renewed Aug. 30, 1952. Refined Sugar and Centrifugal Sugar in Any Condition, Vinegar, Table Syrups, and Molasses. Class 46.

296,957. BROSHAN. Registered Aug. 30, 1932. American Bleached Goods Company, Inc. Renewed Aug. 30, 1952, to American Bleached Goods Company, Inc., New York, N. Y., a corporation of Delaware. Cotton Piece Goods. Class 42.

297,153. SPORTSMAN'S. Registered Sept. 6, 1932. Lamont, Corliss & Company, New York, N. Y. Renewed Sept. 6, 1952, to The Nestlé Company, Inc., Colorado Springs, Colo., a corporation of New York. Prepared Edible Chocolate. Class 46.

297,655. REPRESENTATION OF ROLL OF WIRE CLOTH. Registered Sept. 27, 1932. Reynolds Wire Co., Dixon, Ill. Renewed Sept. 27, 1952, to National-Standard Company, Niles, Mich., a corporation of Michigan. Wire Cloth. Class 13.

297,925. NEO-IOPAX. Registered Oct. 4, 1932. Schering Corporation, New York, N. Y. Renewed Oct. 4, 1952, to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey. Preparation for Internal Use for the Purpose of Facilitating the Taking of X-Ray Pictures of Internal Organs. Class 18.

297,991. REPRESENTATION OF TWISTED WIRE FENCE STAY LINED FOR RED. Registered Oct. 11, 1932. Keystone Steel & Wire Company, Peoria (South Bartonville), Ill. Renewed Oct. 11, 1952, to Keystone Steel and Wire Company, Peoria, Ill., a corporation of Illinois. Twisted Wire Fence Stays. Class 13.

298,026. GOLDEN SAILS. Registered Oct. 11, 1932. Santa Clara Pear Association, San Jose, Calif. Renewed Oct. 11, 1952, to Santa Clara Pear Association, Santa Clara, Calif., a corporation of California. Fresh Deciduous Fruits. Class 46.

298,085. REPRESENTATION OF COW. Registered Oct. 11, 1932. Southern Dairies, Inc., Washington, D. C., a corporation of Delaware. Renewed Oct. 11, 1952. Frozen Confections Comprising a Body Composed of a Frozen Milk Product and a Coating of Edible Substance. Class 46.

298,087. CHOCKOW. Registered Oct. 11, 1932. Southern Dairies, Inc., Washington, D. C., a corporation of Delaware. Renewed Oct. 11, 1952. Frozen Confections Comprising a Body Composed of a Frozen Milk Product and a Coating of Edible Substance. Class 46.

298,265. SPENCERIAN. Registered Oct. 18, 1932. The Spencerian Pen Company. Renewed Oct. 18, 1952, to Spencerian Pen Company Inc., New York, N. Y., a corporation of New York. Writing Pens of All Kinds, Penholders, Paper Clips, and Fountain Pens and Parts Thereof. Class 37.

298,348. "WHITE ROCK" AND DRAWING. Registered Oct. 25, 1932. Whiterock Quarries, Inc., Bellefonte, Pa., a corporation of Pennsylvania. Renewed Oct. 25, 1952. Agricultural Lime. Class 10.

298,361. VOLUMIZED. Registered Oct. 25, 1932. American Pop Corn Company, Sioux City, Iowa, a corporation of Iowa. Renewed Oct. 25, 1952. Pop Corn in Its Natural State. Class 46.

298,387. TENSILASTIC. Registered Oct. 25, 1932. American Wringer Company, Inc., Woonsocket, R. I., a corporation of Rhode Island. Renewed Oct. 25, 1952. Printing Plates. Class 50.

298,434. "COLLEGE CAMPUS" AND DRAWING. Registered Oct. 25, 1932. Lorch Manufacturing Company, Dallas, Tex., a corporation of Texas. Renewed Oct. 25, 1952. Women's and Misses' Silk Frocks. Class 39.

298,468. "SALLY SOTHERN" AND SILHOUETTE PORTRAIT. Registered Oct. 25, 1932. Southern Dairies, Inc., Washingtno, D. C., a corporation of Delaware. Renewed Oct. 25, 1952. Ice Cream. Class 46.

298,475. REPRESENTATION OF LUMP OF COAL LINED FOR GREEN. Registered Oct. 25, 1932. Green River Fuel Company, Incorporated, Mogg, Ky., assignor to Green River Fuel Company, Inc. Renewed Oct. 25, 1952, to Old Ben Coal Corporation, Chicago, Ill., a corporation of Delaware. Coal. Class 1.

298,548. COVO. Registered Nov. 1, 1932. Lever Brothers Company, Cambridge, Mass. Renewed Nov. 1, 1952, to Lever Brothers Company, New York, N. Y., a corporation of Maine. Vegetable Shortening. Class 46.

298,658. LORRAINE. Registered Nov. 1, 1932. Bernhard Ulmann Co. Inc., New York, N. Y. Renewed Nov. 1, 1952, to Bernhard Ulmann Co. Inc., Long Island City, N. Y., a corporation of New York. Worsted Yarns for Knitting, Crocheting, Embroidering, and Similar Purposes. Class 43.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

416,187. STARDUST. Registered Sept. 4, 1945. Industrial Undergarment Corporation, Poughkeepsie, N. Y. Ladies' Wearing Apparel—Namely, Slips, Petticoats, Briefs, Etc. Class 39. Amended as follows: In the certificate, line 4, after "New York," *now by change of name Stardust, Incorporated,* is inserted; in the statement, line 3, after "New York", *now by change of name Stardust, Incorporated,* is inserted; and in the heading and signature to the statement, after "Corporation," *now by change of name Stardust, Incorporated,* is inserted.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

331,947. OLD ABBEY. Registered Jan. 28, 1936. California Fruit Products Co., Inc. Wines. Class 47. New certificate under section 7(c) issued Sept. 9, 1952, to Ben R. Goltsman & Co., a firm, Montgomery, Ala.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 292,886. Registered Mar. 29, 1932. Kaye and MacDonald, Inc., West Orange, N. J., a corporation of New Jersey. Republished by registrant.

K-MASTER

For Steam Traps, Steam-Fitting Supplies, and Other Steam Specialties.
Claims use since July 1930.

CLASS 15

OILS AND GREASES

Reg. No. 272,812. Registered July 15, 1930. Richfield Oil Company of California, Los Angeles, Calif. Republished by Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware.



The drawing is lined for blue and yellow. The words "Aviation Gasoline" are disclaimed apart from the mark as shown.
For Gasoline.
Claims use since July 25, 1929.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 294,681. Registered June 7, 1932. The E. Z. Walk Arch Corporation, New York, N. Y. Republished by E-Z Walk Corporation, New York, N. Y., a corporation of Delaware.

E-Z WALK

For Medicated Corn Pads.
Claims use since about June 1, 1922.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 287,757. Registered Oct. 6, 1931. Gas and Electric Heater Co., La Porte, Ind. Republished by Fauce-Hot Heater Co., La Porte, Ind., a corporation of Indiana.



For Electric Water-Supply Heaters.
Claims use since June 1, 1929.

Reg. No. 296,374. Registered Aug. 2, 1932. Duro Test Corporation, New York, N. Y., a corporation of New York. Republished by registrant, present address, North Bergen, N. J.

DURO TEST

For Incandescent Electric Lamps.
Claims use since Nov. 1, 1929.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 86,587. Registered May 21, 1912. Hardinge Brothers, Chicago, Ill. Republished by Detex Watchclock Corporation, New York, N. Y., a corporation of Delaware.

ALERT

For Watchmen's Clocks.
Claims use since Jan. 12, 1912.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Reg. No. 292,939. Registered Mar. 29, 1932. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Republished by The May Department Stores Company, St. Louis, Mo., a corporation of New York.

Adoria

For Tooth Brushes.
Claims use since about Sept. 30, 1931.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 292,817. Registered Mar. 29, 1932. New York World-Telegram Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

Make Mine Manhattan

For Section or Column Appearing in a Newspaper or Periodical.
Claims use since Nov. 16, 1931.

CLASS 39

CLOTHING

Reg. No. 85,973. Registered Apr. 2, 1912. Lily of France Corset Co., New York, N. Y. Republished by Lily of France, Inc., New York, N. Y., a corporation of New York.

LILY OF FRANCE

For Corsets.
Claims use since Oct. 22, 1897.

REISSUES

SEPTEMBER 9, 1952

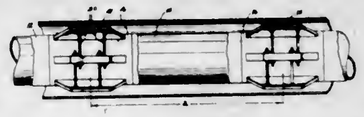
23,545

CONCENTRIC PIPE INSULATOR AND SPACER

Donald H. Bond, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Original No. 2,551,867, dated May 8, 1951, Serial No. 773,885, September 13, 1947. Application for reissue May 1, 1952, Serial No. 285,430

9 Claims. (Cl. 138—65)



8. A device for uniformly spacing and electrically insulating an inner fluid-containing pipe from an outer pipe casing comprising a plurality of elongated spacer members disposed in parallel to and in separated relation about the periphery of said inner pipe, at least some of said members being formed of a material having a high dielectric and mechanical strength and low moisture absorption, and means for clamping said members tightly to said inner pipe, said means comprising a plurality of elements disposed laterally through said members and arranged about the inner pipe, one of said members being provided with spaced lateral apertures, the end portions of said elements passing oppositely through said apertures and means for tensioning the said end portions against opposite lateral faces of the said member to tighten said members against the inner pipe.

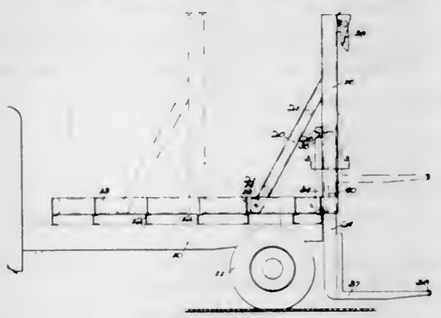
23,546

TRANSPORTING EQUIPMENT

George R. Dempster, Knoxville, Tenn.

Original No. 2,437,806, dated March 16, 1948, Serial No. 565,837, November 30, 1944. Application for reissue April 15, 1952, Serial No. 282,290

31 Claims. (Cl. 214—65)



1. In a transporting equipment, in combination with a base provided with horizontal tracks, a carriage having rollers mounted for movement on said tracks, said carriage provided with vertically disposed ways, means for moving said carriage along said tracks, a second carriage forming a part of said first carriage and movable on the ways of said first carriage at right angles to said base, means on said first carriage for moving said second carriage on said first carriage, and load carrying means mounted on said second carriage and movable therewith.

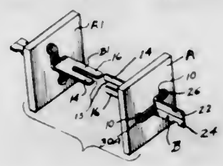
23,547

QUICK DETACHABLE CONNECTOR

Benjamin Fox, Philadelphia, Pa.

Original No. 2,502,253, dated March 28, 1950, Serial No. 669,931, May 15, 1946. Application for reissue September 16, 1950, Serial No. 185,311

3 Claims. (Cl. 173—328)



3. In an electrical contact device, a support of insulating material, and a contact member carried thereby, said member comprising a strip of electro-conductive material bifurcated at one end for the reception thereon of a similarly constructed strip and slitted from its other end a distance toward said bifurcated end to provide two separable portions, said support having a pair of spaced openings therein through each of which a separate one of said separable portions extends, said separable portions being formed with reverse bends one on each side of said support, said bends being in engagement with the respective sides of said support whereby to clamp said strip thereto, said bifurcated end being disposed on one side of said support and said other end being disposed on the other side of said support, and said ends being both disposed in a common plane.

23,548

METHOD OF PRESERVING SPRAY DRIED FOOD PRODUCTS

Paul F. Sharp, Oakland, Calif., and Arell J. Wasson, Omaha, Nebr., assignors to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware

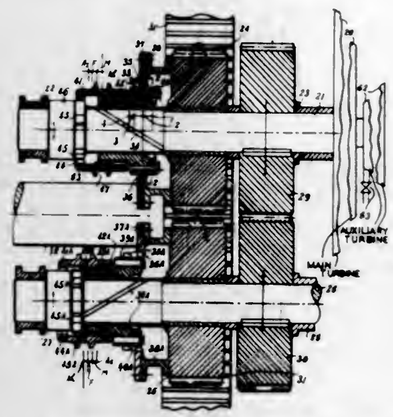
No Drawing. Original No. 2,541,441, dated February 13, 1951, Serial No. 2,955, January 17, 1948. Application for reissue January 26, 1952, Serial No. 268,454

10 Claims. (Cl. 99—151)

5. The method of packaging spray dried powdered milk composed of particles having a gas containing free oxygen associated therewith, both between the particles and in the interior of the particles so as to reduce the oxygen content of the powder, which method comprises the steps of, introducing the powder into a confined space to form a bulk mass therein, displacing the oxygen-containing gas between said particles in said space with inert gas, whereby inert gas diffuses into the interior of the particles to replace the oxygen therein and the replaced oxygen diffuses into the inert gas between the particles,

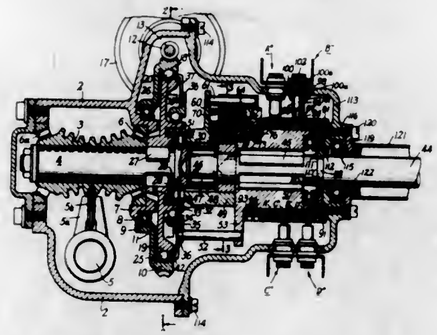
further displacing the gas between said particles with fresh inert gas to cause further diffusion and replacement of oxygen with inert gas in the interior of said particles while discharging the displaced gas from said space, continuing the further displacement of the gas between the particles with fresh inert gas and discharge of displaced gas from said space for a period of at least about 15 hours, thereafter introducing the powder into final containers and subjecting said containers to vacuum conditions within about 6 hours after said food product is removed from said space into contact with the atmosphere and sealing said containers under non-oxidizing conditions.

23,549
POWER-TRANSMISSION MECHANISM
Harold Sinclair, Windsor, England
Original No. 2,559,740, dated July 10, 1951, Serial No. 49,166, September 14, 1948. Application for reissue July 5, 1952, Serial No. 297,415
12 Claims. (Cl. 74—339)



1. A power-transmission mechanism having a driving member which is [capable of exerting] *required to exert* substantial driving torque in only a forward direction of rotation, a driven member required to be driven alternatively in the forward and backward directions of rotation at will, gearing providing in parallel between said members a forward-drive power path and a reverse-drive power path, each of said paths having a selecting clutch disengageable for bidirectionally freeing the drives through said paths and engageable for establishing the drives through said paths, auxiliary driving means for rotating said driving member in the reverse direction at a speed of the same order as its normal speed in the forward direction, and control means operable for energising said auxiliary driving means which, while said driven member is running in consequence of engagement of either one of said selecting clutches, and on disengagement of said one clutch, serve to accelerate said driving member in the reverse direction of rotation to a speed sufficient to synchronise the other of said selecting clutches.

23,550
ELECTRIC POWER ASSISTOR
Edwin G. Staude, West Los Angeles, Calif.
Original No. 2,553,795, dated May 22, 1951, Serial No. 41,287, July 29, 1948. Application for reissue May 22, 1951, Serial No. 227,559
18 Claims. (Cl. 74—388)



1. A manually controlled electric power assistor, comprising a manually controlled shaft, an output shaft, a lost motion coupling having relatively movable members, one of said members being secured to the manually controlled shaft and another of said members being slidably connected to said output shaft, yielding means tending to prevent relative movement of said two members, a normally disengaged clutch, having means for engaging the clutch, connected to said manually controlled shaft, said clutch having one clutch member secured to said output shaft and the other clutch member having a reducing gear connected to a reversible electric motor, and an electrical connection for energizing said motor including a switch having a contact connected to the lost motion coupling so as to be movable into closed position by said lost motion coupling when the manually controlled shaft is moved.

PLANT PATENTS

GRANTED SEPTEMBER 9, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,126
ROSE PLANT
Clarence M. Amling and Gabriel Beltran, Santa Ana, Calif., assignors to Clarence Amling Roses, Inc., Santa Ana, Calif.
Application September 11, 1951, Serial No. 246,024
1 Claim. (Cl. 47—61)

The new and distinct variety of polyantha rose plant similar in many respects to its parent but characterized as to novelty particularly by its very vigorous and abundant growth; its prolific and continuous blooming habit; and its relatively larger and longer buds and larger flowers of rose pink as shown and described.

1,127
PEACH TREE
Thomas B. Stribling, Jr., Merced, Calif.
Application September 22, 1951, Serial No. 247,817
1 Claim. (Cl. 47—62)

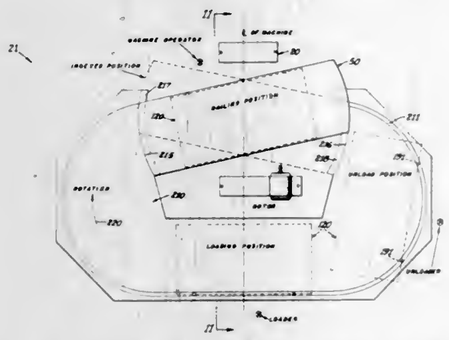
A new and distinct variety of peach tree substantially as described and illustrated bearing yellow fleshed, freestone fruit which ripens with the Florence between the Mayflower and the Alexander, the fruit ripening approximately eighteen days earlier than the Red Haven and approximately thirty-five days earlier than the July Elberta, being yellow in under-color almost wholly overspread with reddish maroon with dark mottling thereon, being rounder and of more spherical shape than the Red Haven and July Elberta, having a relatively small pit, and acid flavor; and the tree being a vigorous grower, a consistent bearer, and setting a good crop in mild winters.

PATENTS

GRANTED SEPTEMBER 9, 1952

GENERAL AND MECHANICAL

2,609,536
JIGGING APPARATUS FOR INDUSTRIAL NAILING MACHINES
Reginald H. Heard, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application April 24, 1950, Serial No. 157,691
22 Claims. (Cl. 1—1)



1. In a device for presenting special work to an industrial nailing machine, the combination of: a table intersecting the nail driving plane of said nailing machine and rotatable about a vertical axis; a track on said table for guiding a jig longitudinally thereon; a jig adapted to move along said table in guided relation therewith; an assembly platform which is adapted to support said jig and to receive the same when moved longitudinally from said table and guide said jig along a path which terminates at the opposite end of said table; and guide means on said platform for guiding said jig along said path as it is received on said platform from said table and maintaining said jig on said path guiding said jig back onto said table when said jig reaches the end of said path.

2,609,537
BODY PROTECTIVE PAD FOR USE IN CONTACT SPORTS
Ben Allen Pfaff, Elyria, Ohio
Application April 28, 1949, Serial No. 90,096
2 Claims. (Cl. 2—2)



1. In a thigh pad adapted for insertion within pockets provided in football pants, an arcuate in cross-section substantially rectangular body portion, an inflatable bladder element of substantially similar form, said bladder element having means integrally formed therewith whereby said bladder element is removably secured to the inner face of said body portion, valve means for inflating said bladder element to a desired pressure, said body portion having an integrally formed horizontally longitudinally extending hinge portion wherefor said body portion is adapted to be bent in a horizontal direction at an intermediate portion thereof.

2,609,538
GOGGLES
Honel Acetin Jackson, Warren, Mich.
Application January 26, 1949, Serial No. 72,878
8 Claims. (Cl. 2—14)

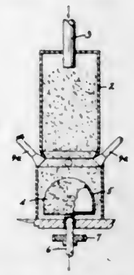


1. In a pair of goggles comprising a head band member and a temple member, a disconnectable connection between said temple member and the head band comprising a spring clip having a U portion with a pair of opposed bumps in the U portion, the temple member being positioned between the legs of the U portion and having sockets therein cooperating and interengaged with said bumps whereby the temple member is free to pivot relative to said clip, and means for securing the clip to said head band.

2,609,539
BUST RECEIVING AND SUPPORTING MEMBER
Howard E. Shearer, Swarthmore, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application June 3, 1948, Serial No. 30,852
3 Claims. (Cl. 2—42)

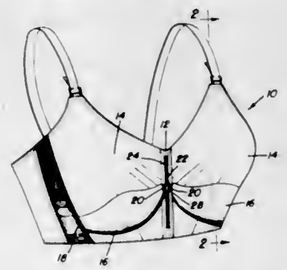
1. A pre-shrunk bust receiving and supporting pocket comprising a fibrous felt-like product consisting of discontinuous fibers at least some of which are thermoplastic, heat-shrinkable fibers of a copolymer of vinyl chloride and vinyl acetate containing about 90% vinyl chloride in the copolymer molecule and having, initially, a residual shrinkage capacity of at least 50%, the copolymeric fibers in the pocket being shrunk in the pocket to shrink the product as a whole and

impart a generally breast-like shape thereto, and fibers in the pocket being autogenously bonded



to stabilize the pocket against loss of the breast-like shape in use.

2,609,540
BRASSIÈRE WITH ADJUSTABLE BREAST SUPPORTING MEMBERS
Jack J. Lo Cascio, Bayonne, N. J., assignor to Even-Pul Foundations, Inc., New York, N. Y., a corporation of New York
Application January 19, 1951, Serial No. 206,860
2 Claims. (Cl. 2—42)



1. A brassière having a front region including a pair of breast cups, a pair of elongated pad-shaped breast supporting members disposed at the outside of the lower portions of the respective breast cups, means securing outer ends of said members to the front region of the brassière at the outer side edges of the respective cups, a fastener mounted on said front region between the cups and including a vertically adjustable slide, and a pair of inverted substantially T-shaped keepers depending in downwardly divergent relation from said slide, said keepers being embedded in the inner end portions of the respective breast supporting members, whereby the latter may be raised or lowered relative to the cups.

2,609,541
SHIRT
Morris L. Kaplan, Hazleton, Pa., assignor to The Shirtcraft Company, Inc., Hazleton, Pa., a corporation of New York
Application December 27, 1949, Serial No. 135,099
1 Claim. (Cl. 2—116)

A shirt having an elastic bottom portion, the inside surface of the bottom portion being provided with means to resist "creeping," the fabric of the said elastic bottom portion being shirred, said means comprising a plurality of spaced elastic transversely extending bands, said bands being connected to the shirred portion by stitching on the inner side thereof and maintaining the shirring permanent and imparting an elasticity to the bottom portion, the elastic bottom portion being connected to the body of the shirt by a freely shirred connecting portion, the lower portion of the shirt and the top portion of the connecting portion being connected in spaced re-



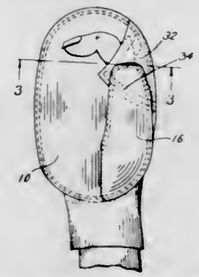
lation to their free edges and the material of said shirt and connecting portion intermediate said connection and the free edges defining a two-ply projection for preventing upward creeping of the shirt.

2,609,542
ZIPPER SHIRT
Morris L. Kaplan, Hazleton, Pa., assignor to The Shirtcraft Co., Inc., Hazleton, Pa., a corporation of New York
Application August 23, 1949, Serial No. 111,910
3 Claims. (Cl. 2—128)



3. A facing for the edge of a shirt opening comprising a cloth facing layer, a layer of thermoplastic material enclosed within said facing layer, a cloth layer enclosed within said layer of thermoplastic material, said layers being connected together, the facing layer being connected to a shirt section at one edge on the inner side of the facing, a free edge of said facing layer being stitched to the facing layer and shirt section on the inner side of the facing layer to thereby enclose said thermoplastic and second-mentioned cloth layers, and a stringer secured to the facing layer on the inner side thereof and disposed centrally of the layers.

2,609,543
HUNTER'S GLOVE OR MITTEN
Aloysius L. Farrell, Bloomfield, Conn.
Application December 4, 1950, Serial No. 199,122
2 Claims. (Cl. 2—158)



1. A mitten comprising outer palm and back panels, a lining comprising co-extensive front

and back panels, said outer palm panel and palm lining panel having aligned slits formed therein adjacent the forefinger of the wearer, an inner flap attached to said outer palm panel adjacent the slit and extending between the outer panel and lining panel to cover the slit in the outer panel, and an outer flap extending from the seam connecting the palm and back panels of the mitten and extending over and covering the slit in the palm panel.

2,609,544
EAR MUFF
Elaine Berg, Chicago, Ill.
Application November 22, 1950, Serial No. 197,043
8 Claims. (Cl. 2—209)



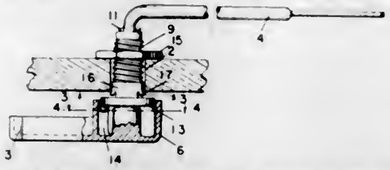
1. An ear muff assembly comprising an endless band of sufficient width and diameter to form an ear accommodating cavity and to surround an ear in relation to its respective depth, width, and length, and a loosely fitting covering enclosing said band and extending on both sides of the cavity and being sufficiently loose so that one side of the covering may be depressed into the cavity to form a recess for receiving the ear, the other side of the covering being drawn over the outside surface of the band, and the first-mentioned side of the covering engaging the inside of the other covering and engaging the inside surface of the band to provide a lining for the band about the ear, and means retaining the assembly in ear engaging position.

2,609,545
FILLING-BODY FOR SURGICAL USE
Jens Herman Bing, Copenhagen, Denmark, assignor to Aktieselskabet Ferrosan, Copenhagen, Denmark, a firm
No Drawing. Application November 24, 1950, Serial No. 197,517. In Denmark November 26, 1949
5 Claims. (Cl. 3—1)

1. A spongy body for the filling of cavities formed in human and animal bodies in surgical operations which filling-body consists of thread-like elements of polyethylene tangled together to form a mass having a spatial network-structure.

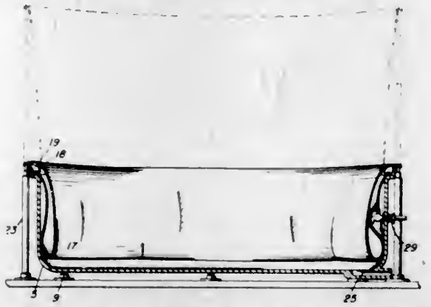
2,609,546
HANDLE AND OPERATING LEVER ASSEMBLY FOR FLUSHING TANKS
David E. Gulick, Kittanning, Pa., assignor to Eljer Co., Ford City, Pa.
Application July 20, 1948, Serial No. 39,617
6 Claims. (Cl. 4—67)

1. A handle and operating lever assembly for flushing tanks, comprising an open-ended tubular bearing member to extend through an opening in the wall of a flushing tank, adapted to receive for rocking movement therein a shank for connecting said handle and operating lever, the bearing member having a head to lie against one face of a wall of a tank, a nut threaded on the other end of said bearing member for engagement against the opposite face of the said wall of the tank, and said bearing being provided with one or more integral slanted projections the outer ends pointed toward the head and being spaced therefrom, spaced clearance between the outer ends of the projections and the bearing, the pro-



jections extending outwardly beyond the periphery of the bearing member to such an extent that said projections will be crowded in, to conform to the opening in a flushing tank when the nut is turned to draw the bearing through the opening in the tank to clamp the said nut and head against opposite faces of a wall of a flushing tank and thereby hold the bearing member against rotary looseness within the opening in the tank wall.

2,609,547
BATHTUB WITH CONTAINED SHOWER CURTAIN
Milton L. Clark, Memphis, Tenn.
Application August 31, 1949, Serial No. 113,389
1 Claim. (Cl. 4—149)



In combination, a bath tub having an internal shoulder formed around the upper edge of the tub, a clamping frame above the shoulder, a curtain having its lower edge clamped on the shoulder by the frame, clamping members secured to the rim of the tub and holding said frame in clamping relation to said shoulder, and vertically adjustable standards supported outwardly of the tub and holding the upper edge of the curtain in a raised position.

ERRATUM

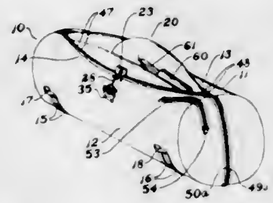
For Class 5–109 see:
Patent No. 2,609,863

2,609,548
MATTRESS
Paul C. Doane, Windsor, N. Y.
Application July 7, 1948, Serial No. 37,349
4 Claims. (Cl. 5—360)



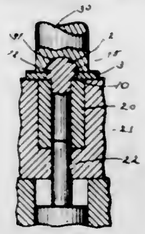
1. The combination with a mattress of a first elongated rubber strip secured along the top edges thereof and a second elongated rubber strip secured along the bottom edges thereof so as to be spaced from the first mentioned strip by substantially the width of the mattress, said strips being disposed on the surface of the mattress edges whereby a sheet may be maintained on the mattress by frictional contact.

2,609,549
PROTECTIVE CASE FOR INFLATABLE ARTICLES
Carroll P. Krupp, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 24, 1950, Serial No. 164,019
9 Claims. (Cl. 9—11)



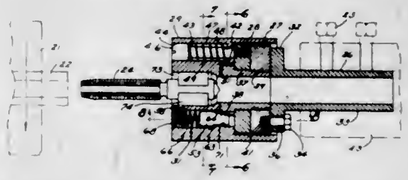
1. A quick-opening protective case for releasably containing an uninflated inflatable article and its inflating means, said case comprising a hollow body for receiving the uninflated article and its inflating means and having a wall of divided form providing marginal portions at the divide for passage of the article, slide fastener elements on said portions disposed in series thereon, flexible closing strips on said portions at said elements coextensive with said series thereof each strip projecting laterally of said portions toward the other strip for closing said portions by overlapping contacting relation of said strips in the engaged condition of the fastener elements, said portions at a position along said series of fastener elements thereon having a narrow zone free of said fastener elements and said strips to provide spaced-apart adjacent end portions of said fastener elements and said strips, a pair of superimposed clamping plate members at said zone overlapping said end portions of said fastener elements and said strips and overlapping said marginal portions and separably holding the same in sandwiched disposition between said plate members, one of said members having an aperture extending therethrough from a face thereof at a position spaced from the ends thereof and at the divide and a recess in the other face of the member extending about said aperture with a depth less than the thickness of the member and said member having in said other face thereof a pair of spaced-apart aligned grooves each extending along the divide away from said recess to an end of the member and accommodating one of said end portions of the fastener elements and strips and one of said members being detachable relative to the other member and said end portions and said marginal portions and having an aperture therethrough in alignment with said aperture of the other member, and an engaging structure supported by and detachably clamping said members together, said structure including a pull element extending through said recess and through the aligned apertures in said members at said zone and having flexible cable means for connection with the inflating means of the contained article and being operable from the exterior of said case to operate the inflating means.

2,609,550
METHOD OF MAKING HEADED FASTENER
Harvey F. Phipard, Jr., South Dartmouth, Mass., assignor to Research Engineering & Manufacturing, Inc., New Bedford, Mass., a corporation of Massachusetts
Application June 28, 1949, Serial No. 101,810
1 Claim. (Cl. 10—27)



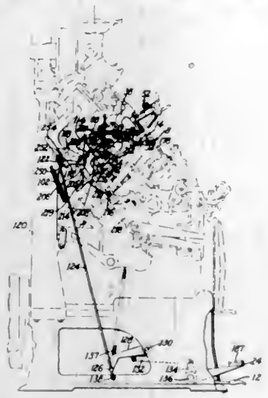
The improved process of forming a headed fastener by interlocking a stem and washer by successive cold-heading operations, which consists in assembling a washer over a stem adjacent one end, said washer having a central opening of greater diameter than that of the stem to permit the washer to slide on the stem during the first heading operation, holding said stem in a die, effecting a first heading action on the stem to flow a rim-like flange from said stem around the top surface of the die between the washer and the adjacent end of the stem, and thereupon performing a succeeding cold-heading operation, forcing said washer over said rim into the same plane flush with the lower surface of the washer, and simultaneously heading the adjacent end portion of the stem over the washer by said succeeding cold-heading action, whereby said washer and stem are interlocked, by the flow of metal from the stem both below and above said washer.

2,609,551
TAP HOLDER
James D. Marcellus, Belvidere, Ill.
Application November 4, 1948, Serial No. 58,237
11 Claims. (Cl. 10—89)



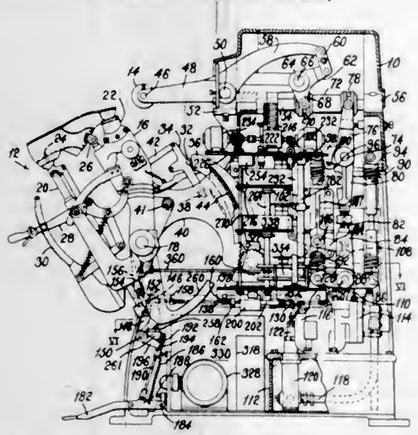
1. A releasing tap holder comprising a body portion having spaced shoulders, a rigid member rotatably mounted between said spaced shoulders, a head for chucking a tap, means for mounting said head on said rotatable member permitting limited axial movement of the head with respect to the rotatable member between preselected positions, clutch means resiliently mounted on said head in one position of the head acting between said head and one of said shoulders to maintain said head in fixed relation with the body and in another position of the head permitting relative rotational movement of the head in one direction of rotation and preventing rotational movement of the head in the opposite direction, and a shank portion forming a seat for said other shoulder and shaped to be received in a tool holder to support said body and head in an operative position in a machine tool.

2,609,552
MACHINE FOR SHAPING UPPERS OVER LASTS
Thomas Aubrey Kestell, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 17, 1949, Serial No. 81,917
In Great Britain April 9, 1948
26 Claims. (Cl. 12—10.4)



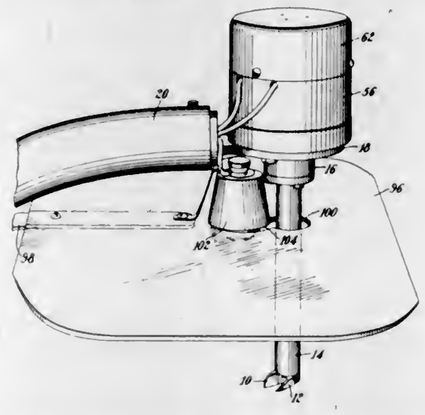
14. In a machine for shaping uppers over lasts, a toe gripper for gripping the toe end of an upper on a last and for pulling the upper to tension it lengthwise of the last in the course of a cycle of power operations of the machine, a treadle for starting the cycle of operations, additional upper-gripping means for gripping the toe end of the upper and for applying a preliminary pull thereto to tension the upper lengthwise of the last and to position it relatively to said toe gripper prior to the starting of the cycle of operations, and another treadle for thus operating said additional upper-gripping means and for thereafter by further movement operating said first-named treadle to start the cycle.

2,609,553
MACHINE CYCLE CONTROL SYSTEM
Paul Cohen, Glen Cove, N. Y., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 11, 1949, Serial No. 70,183
10 Claims. (Cl. 12—34.5)



6. In combination, a movable mechanism, a photoelectric control apparatus for determining the movement of said mechanism, said apparatus including a photocell, a source of light, superposed control cams movable between the light and the cell, said cams each having an opaque portion, that on one cam extending from a base line upward and that on the other cam extending from a top line downward, one cam being a master cam and the other a follower cam, means for moving the latter cam in proportion to movement of the mechanism, and means for moving the master cam at a predetermined speed, and means interposed between the control apparatus and the mechanism for utilizing the signal produced in the photocell by the light passing through the space between said cams to produce in the mechanism the desired movement.

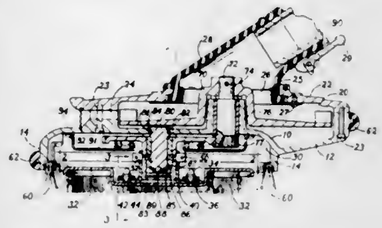
2,609,554
NAIL CUTTING MACHINE
Robert W. Bradley, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 24, 1951, Serial No. 243,460
5 Claims. (Cl. 12—84)



1. A nail cutting machine comprising an elongated sleeve, a fixed cutting blade secured to one end of the sleeve and projecting outwardly therefrom, a spindle rotatably mounted in the sleeve, the sleeve having an arcuate opening in the end thereof adjacent to the fixed blade, a movable blade secured to the spindle and projecting outwardly through the opening, power means for moving the spindle angularly in a direction to cause engagement of the blades, and a spring to effect movement of the movable blade in the opposite direction.

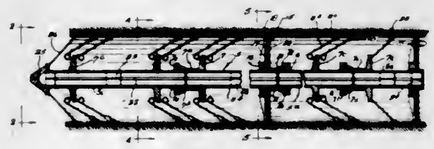
2,609,555
FLOOR POLISHING DEVICE
Emil Anderson, Briarcliff Manor, N. Y., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application September 18, 1948, Serial No. 49,877
6 Claims. (Cl. 15—49)

1. In a floor polisher, the combination comprising a rotatable brush mechanism having a brush mounted thereon in contact with the floor, a vertical driving shaft means, means for supporting said driving shaft means from the floor, a driven sleeve means mounted on said shaft means, said rotatable brush mechanism being affixed to said sleeve, guide means comprising a spiral groove in one of said shaft and sleeve means and a pin in said other shaft and sleeve means engaging said groove for operatively maintaining the shaft and sleeve in said mounted relationship and for causing relative axial movement of said shaft and sleeve upon relative rotation thereof, whereby ex-



cessive brush loads result in the lifting of the brush from contact with the load to maintain substantially constant the torque transmitted between said shaft and sleeve.

2,609,556
FLUID PROPELLED PIPE SCRAPER
Andrew J. Carver, Walters, Okla.
Application December 29, 1945, Serial No. 638,340
1 Claim. (Cl. 15—104.06)



In a pipe cleaning apparatus, a fluid propelled pipe scraper comprising an open ended tubular member composed of a plurality of tubular sections arranged to define a conduit, whereby a fluid may pass through the entire member, said sections including first and second sections having adjacent ends, a ball at the adjacent end of the first section, external threads on the adjacent end of the second section, a sleeve threaded about said threaded end of said second section, a socket member formed at one end of the sleeve projecting beyond the adjacent end of said second section and past the adjacent end of said first section, said ball being received in said socket member, a flange at the other end of the sleeve and projecting radially outwardly from said sleeve, scraper holding means carried by said flange, means mounted on said socket member retaining the ball engaged in said socket member for universal movement, and a sealing disk mounted on said second section and having a peripheral edge for riding against the inner periphery of a pipe so as to seal all fluid flow past the scraper except through the tubular member and to provide a spray ahead of the scraper holding means, said sealing disk also providing a propelling means for the device.

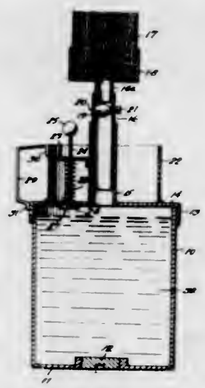
2,609,557
HAND BROOM
Ralph Raymond Reed, Burbank, Calif.
Application November 4, 1944, Serial No. 562,000
1 Claim. (Cl. 15—129)

In combination: a broom having a head, and a tubular handle coaxial therewith; a discharge tube in said handle extending downwardly thereof to one side of said head; a spray nozzle on the free lower end of said tube positioned to discharge a liquid in spray form downwardly to one side but away from the head; means on the free end of said handle affording connection for a hose and providing communication between the hose and said tube whereby water under pressure may be supplied to said tube; valve means on said handle for controlling the supply of water from



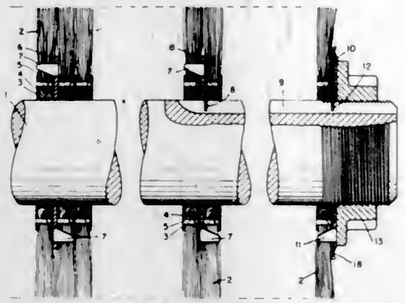
said hose to said tube; and a container for a sterilizing liquid secured to said handle and communicating with said tube so that upon the flow of water through said tube liquid from said container will be introduced into the tube and intermixed with the water in the discharge of the latter from said nozzle in the form of a spray.

2,609,558
FOUNTAIN PAINTBRUSH
Charles R. Johnson, Los Angeles, Calif.
Application October 7, 1949, Serial No. 120,087
1 Claim. (Cl. 15—131)



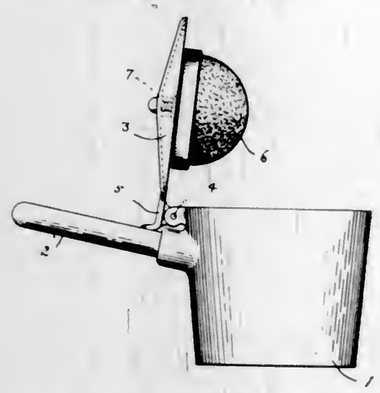
A device of the character described comprising a container, a cover removably mounted on said container, a supply tube extending from said cover, a brush at the outer end of the tube having its bristles in communication with the tube, a flow regulating valve in said supply tube, a drip trap comprising an annular outwardly extending wall affixed to the cover in spaced relation to the tube, and a manually operable return valve in said cover between the tube and the walls of the drip trap.

2,609,559
ROTARY BRUSH
Ruben O. Peterson, University Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application March 5, 1947, Serial No. 732,445
36 Claims. (Cl. 15—182)



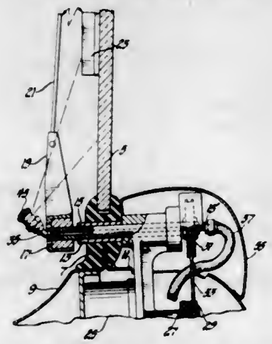
1. In combination, a mandrel; a rotary brush element seated on said mandrel, said element comprising a plurality of helical turns of a channelform brush back having teeth punched inwardly from the sides thereof, a retaining member disposed longitudinally within said channelform back and held in place beneath said teeth, and brush material held in said channelform back by said retaining member; annular retaining members seated on said mandrel to either side of said helically wound brush element and provided with a plurality of circularly disposed teeth projecting in an axial direction adapted to indent and bear against the respective peripheral edges of the endmost turns of said helically wound channelform brush back; and a nut threaded on the end of said mandrel operative, upon being tightened, to bear against one of said toothed annular retaining members to force such teeth into such engagement with the edge of said brush back.

2,609,560
RECEPTACLE AND WIPER
Jane F. McCarthy, Minneapolis, Minn.
Application October 31, 1946, Serial No. 707,008
1 Claim. (Cl. 15—211)



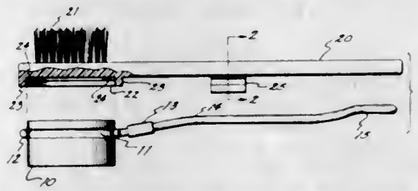
A receptacle for receiving debris from an ash tray and for use in subsequently cleaning said ash tray, having in combination an open topped receptacle body, a cover hingedly attached at one side to the upper portion of said body and swingable over said open top, a handle secured to said body adjacent said one side and near the top of said body, a wiping member of yieldable material and of generally convex shape attached to the underside of said cover and projecting substantially therefrom and a cover-opening and swing-limiting extension projecting from said cover and engageable with said handle adjacent said hinge for positioning said cover nearly perpendicularly to said body with said wiping member then disposed over the top of said body in a position to advantageously accommodate an ash tray for cleaning and to cause said material wiped from said ash tray to fall into said receptacle.

2,609,561
WINDSHIELD WIPER
James H. Wernig, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 26, 1946, Serial No. 686,544
7 Claims. (Cl. 15—250.4)



1. In a windshield cleaner, a tubular rockshaft, an arm and blade carried thereby, means including a collar surrounding said rockshaft adjacent the outer end thereof, connecting said arm to the outer end of said rockshaft, an axial passage in said rockshaft, conduit means connecting a fluid source to said passage, a jet fitting secured at the outer end of said rockshaft, said jet fitting consisting of one part secured to said rockshaft and having an axial bore connected to said axial passage, said fitting part having an annular surface surrounding said bore, a second fitting part secured to said first part and having an annular surface engaging the annular surface on said first part, and a radial groove in one of said annular surfaces connected to said axial bore to provide a spray nozzle.

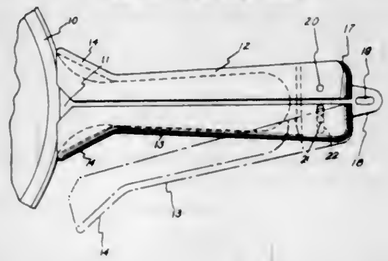
2,609,562
CONTAINER FOR PASTE, HOLDER THEREFOR, AND COOPERATIVE COMBINATION BRUSH AND COVER FOR USE THEREWITH
Noel S. Florence, Brooklyn, N. Y.
Application October 16, 1948, Serial No. 54,850
7 Claims. (Cl. 15—258)



1. A combined paste box and brush, including an open box externally peripherally grooved near

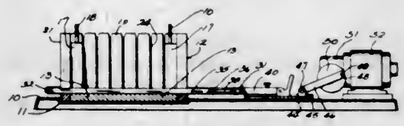
the upper lip thereof, a brush of the unilaterally setaceous type, having a recess upon the side of the handle thereof opposite the bristles thereof, said recess being of such size and so formed as snugly to fit over and to cover said box, a resilient box handle fitting in said groove and extending in a generally parallel position alongside the brush handle, and locking means into which a portion of said box handle can be forced by lateral flexing thereof, so as to hold tightly and resiliently together said two handles, for at least a portion of their respective lengths, whereby said recess acts as a cover for said box when said two handles are held firmly but resiliently in approximation to one another, by said locking means, said cover and said box being thereby under continuous stress urging them into close contact with one another, when said two handles are locked together.

2,609,563
AUXILIARY ADJUSTABLE POT HANDLE
Chris D. Budelman, Portland, Oreg.
Application June 20, 1949, Serial No. 100,209
1 Claim. (Cl. 16—114)



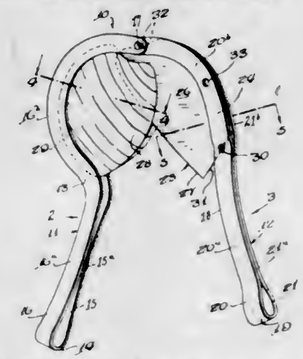
In an adjustable auxiliary handle for carrying iron skillets and the like, in combination, a pair of handle members having elongated cooperating channels and providing a chamber into which an iron skillet handle is inserted and at one end thereof each of said handle members having a normally horizontal slot; a connector in said slots and having a hole and an elongated aperture; a pin secured in one of said handle members and extending through and being pivotable in said hole; a second pin secured in the other of said handle members and extending through and being pivotable in said aperture, said handle members being laterally adjustable with respect to each other within the limits of said aperture.

2,609,564
MACHINE FOR CUTTING MOCK CHICKEN LEGS
Joseph A. Grimm, Milwaukee, Wis.
Application May 20, 1949, Serial No. 94,315
1 Claim. (Cl. 17—1)



A device of the character described including a flat base having a shallow square recess in the top surface thereof, a square box adapted to nest freely in said recess, vertical end and side walls in said box having a plurality of spaced and oppositely aligned vertical slots, a bottom in said box having a plurality of grooves in its upper surface extending from end to end of said box and a second plurality of grooves intersecting at right angles said first mentioned grooves all of said grooves communicating with said side and end wall slots, vertical corner posts within said walls shorter than the upper edges of said walls, bolts extending upwardly from the tops of said posts, threaded means on said bolts, a square flat plate apertured to receive said bolts and freely movable within the said walls above said posts for compressing a plurality of horizontal layers of meat to be held in said box by manipulation of said threaded means, said box bottom and said plate when in place having pluralities of spaced vertically aligned bores adapted to freely pass skewers to be forced through the compressed meat held therebetween.

2,609,565
DEVICE FOR SPLITTING CLAMS
Witold Mostowicz, New York, N. Y.
Application November 17, 1950, Serial No. 196,117
6 Claims. (Cl. 17—10)

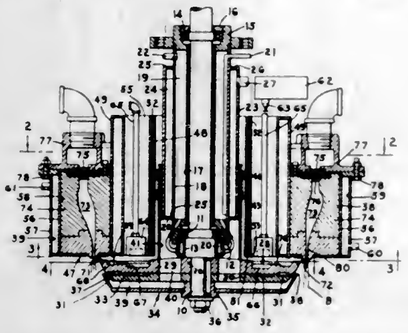


1. In a device for splitting clams, said device having two elongated members pivoted to one another at one end thereof, the combination of each member being made of two strips of strong resisting but somewhat resilient material placed one over the other in substantially registering relation, the two strips in each member being spaced apart for a predetermined distance adjacent to the pivoted ends thereof, then continued closed on one another to form handles for the device, the strips in one, the first, member being spaced apart at said portion thereof at a larger distance adapted to receive a part of a clam between them, the strips of the other, the second, member being spaced apart to a lesser degree adapted to receive a flat blade knife between them, said blade projecting therefrom towards said first member and having a wide knife edge of predetermined curvature at its projecting end, said blade being secured between said strips by frictional action, and pins in said second member against which said blade is pressed when the device is used for opening a clam.

2,609,566
METHOD AND APPARATUS FOR FORMING FIBERS
Games Slayter and Charles J. Stalego, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware
Application December 31, 1948, Serial No. 68,664
12 Claims. (Cl. 18—2.5)

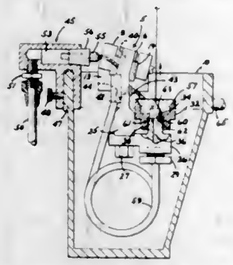
5. The process of making glass fibers which comprises burning a combustible mixture of gases

and discharging the products of combustion in the form of a ring-like blast of gas moving at a rate sufficient to attenuate softened glass into fine fibers, flowing a body of heat softened glass in a generally radially outward direction from the approximate center of the blast by the action of centrifugal force, separating the body of glass



into a multiplicity of individual streams of glass and recombining them while said body flows under the influence of the centrifugal force and then forming the glass into individual streams projecting the streams of glass endwise into the annular blast by the action of centrifugal force, and attenuating the drawn out streams into very fine fibers by the heat and force of the blast.

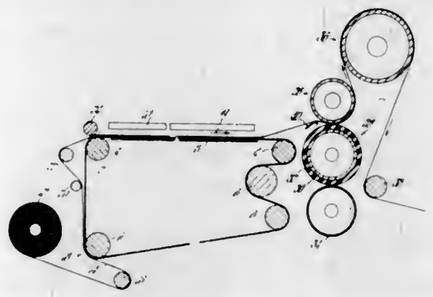
2,609,567
SPINNING APPARATUS
Henry J. McDermott, Collingdale, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application December 1, 1949, Serial No. 130,462
11 Claims. (Cl. 18—8)



1. Spinning apparatus for artificial filaments comprising a small container having an open top and an overflow surface, an upwardly facing spinneret supported within the container at a level below the overflow surface, a receptacle, common means for supporting the container and the spinneret within the receptacle, and an overflow surface for the receptacle disposed at lower level than that of the overflow surface of the container, and orifice means supported adjacent the container for discharging a liquid thereinto.

2,609,568
APPARATUS AND METHOD OF EMBOSSING THERMOPLASTIC SHEETS
Raymond E. Getchell, Holyoke, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a corporation
Application October 20, 1950, Serial No. 191,222
2 Claims. (Cl. 18—10)

2. Apparatus for embossing a continuous web of relatively thin normally unsupported plastic material comprising in combination, an endless flexible band, a plurality of rolls for supporting said band relatively disposed to provide a horizontal elongated run for supporting and conveying said web, a flat elongated rigid support for supporting said horizontal run and having a delivery end, heating means disposed along said run and spaced thereabove for the passage there-



under of a web carried by said run, a transverse rigid smoothing member disposed at the delivery end of said support for the passage of a web from the run of said band thereover, coacting embossing and yieldable faced rolls adjacent said smoothing member for receiving said web from said smoothing member, and a cooling roll for receiving and cooling said web from said embossing and yieldable faced roll.

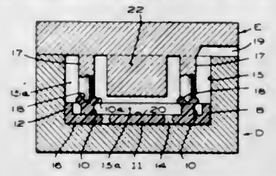
2,609,569
WATER-SOLUBLE MULTIFILAMENT YARN AND PROCESS FOR MAKING IT
Andrew Tainter Walter and Bernard Allen Price, South Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application November 12, 1948, Serial No. 59,758
14 Claims. (Cl. 18—54)

7. Process for making a high molecular weight water-soluble multifilament yarn, which comprises forming an aqueous spinning solution of a high molecular weight water-soluble hydroxyethyl cellulose, a 5% aqueous solution of which has a viscosity at 20° C. of at least 1,000 centipoises, said spinning solution containing between 3% and 30% of said hydroxyethyl cellulose, extruding such spinning solution through a plurality of passages in a spinneret and into a liquid bath of a water-soluble coagulant for the hydroxyethyl cellulose, conducting the coagulated filaments thus produced through a bath of a water-soluble polyhydric alcohol while gathering the filaments to form a yarn, stretching the yarn at least 50% while passing through at least one of said baths, and then drying the yarn.

2,609,570
METHOD FOR FORMING A MULTIPART PLASTIC ARTICLE
Elmer L. Danielson, Oakland, and Floyd J. Dofsen, San Francisco, Calif.
Application January 22, 1951, Serial No. 207,174
7 Claims. (Cl. 18—59)

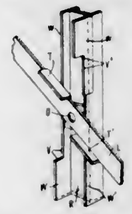
1. In the herein described method of forming a multi-part plastic article, which includes the steps of: precasting a plastic first part of the article with a surface against which a second part is to be cast; cutting into this precast part and bodily deflecting a portion thereof from a

normal into an offset position overhanging said surface, with the deflected portion and said surface defining an undercut; and thereafter injecting plastic material for a second part of the article against said surface for flowing into the



undercut and embedding the deflected portion, while still maintaining said portion in its deflected position until the second part solidifies, whereby said portion will be precluded from returning to its original position and will mechanically interlock the two parts.

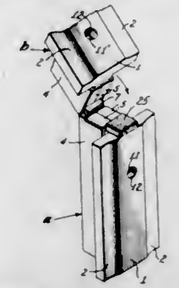
2,609,571
ASTRAL TYPE WINDOW STRUCTURE
Giovanni Poggi, Bologna, Italy
Application June 9, 1948, Serial No. 31,864
In Italy June 10, 1947
2 Claims. (Cl. 20—42)



1. A window comprising a window frame having a pair of channeled uprights between which window sashes are disposed and each of which have legs extending parallel to the window sashes when said sashes are in closed position, said uprights consisting in an upper part which, throughout its length, has an inside leg of greater width than the opposite outside leg and a lower part which, throughout its length, has an outside leg of greater width than the opposite inside leg and an intermediate part which has legs substantially of the width of the shorter legs of said upper and lower parts of the upright, balance levers respectively pivoted at the center of said intermediate part of the uprights, said sashes being pivotally attached at both ends of each balance lever at a distance from their ends corresponding to about one-half of the length of said balance lever, and slidable guiding means projecting from the upper sides of the upper sash and from the lower sides of the lower sash into the space between the legs of the upper and lower parts of the uprights.

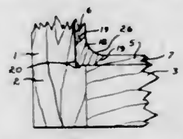
2,609,572
COMBINATION WEATHER STRIP AND SASH BALANCE
William Edward Bartlett, Atlanta, Ga.
Application October 27, 1950, Serial No. 192,507
10 Claims. (Cl. 20—52.3)

1. Weather strip and frictional slide for sash having a groove formed on each side edge, comprising hingedly associated channel members arranged end to end and adapted to seat in said grooves of the sash, frictional slide members, coextensive in length with said hingedly connected channel members, said slide members having portions slidable transversely within the channel members and resilient means interposed between the web of each channel member and



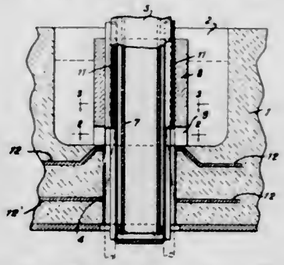
its associated slide member operative to normally project the slide outwardly with respect to the channel to frictionally engage the side wall of a window frame.

2,609,573
DOOR, SASH, AND THE LIKE
William Johnson, Vancouver, British Columbia, Canada
Application June 24, 1950, Serial No. 170,077
1 Claim. (Cl. 20—56)



A window sash or the like having stiles and rails intersecting to form corners, said stiles and rails being rebated to receive a panel, a portion of the tongue forming the rebates of an adjoining stile and rail being cut away down to the base of said rebate to form a transverse groove having a V-shaped base and parallel sides, said groove being fitted with a fillet extending to the inner ends of the parallel sides and the inner exposed portion of the fillet being concavely curved to merge with the faces of the adjoining rebates.

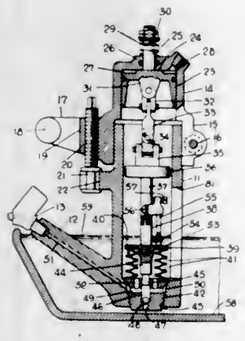
2,609,574
APPARATUS FOR THE CONTINUOUS CASTING OF METAL RODS
Irving Rossi, Morristown, N. J., assignor to Continuous Metalcast Co., Inc., a corporation of Delaware
Application June 25, 1949, Serial No. 101,324
9 Claims. (Cl. 22—57.2)



1. Apparatus for the continuous casting of metal rods, comprising, a mold block having a

cavity therein forming a reservoir for molten metal, said mold block having a wall provided with a plurality of spaced grooves in its surface, a water cooled shell having a chilled wall in abutting contact with said mold block wall and extending above the floor of said cavity, said chilled wall being provided with a plurality of spaced grooves in its surface opposed to the grooves in the mold wall and forming therewith a plurality of mold passages communicating with said cavity, and a baffle extending upwardly from the floor of said cavity and in abutting contact with all portions of said chilled wall except the grooves thereof and separating such portions from contact with the molten metal in said cavity.

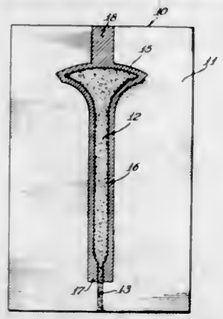
2,609,575
APPARATUS FOR PRESSURE INJECTING CASTING MATERIAL BY DIAPHRAGM PUMPS
Louis H. Morin, Bronx, N. Y.
Application May 12, 1949, Serial No. 92,752
14 Claims. (Cl. 22—70)



1. In a gooseneck for die casting machines capable of casting aluminum, a pump unit mounted in the lower portion of the gooseneck and submerged in molten metal to be discharged from the gooseneck by said unit, movable means extending upwardly through the gooseneck and above the surface of the molten metal for actuating the pump unit, said unit having a resilient, deformable, sheet material member as the effective pumping element for the molten metal, said member being flexible in the direction of movement of said movable actuating means, said member being in continuous contact with the molten metal and being resistant to the action of molten aluminum, and said member being engageable and periodically flexed by said movable actuating means to force molten metal through the gooseneck to be discharged therefrom.

2,609,576
METHOD OF MAKING HOLLOW SHAPES
Milton S. Roush, Painesville, and Clyde C. Clark, Willoughby, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application December 6, 1949, Serial No. 131,310
9 Claims. (Cl. 22—200)

1. A method of producing hollow articles which comprises compacting powdered metal into a core having the configuration desired in the hollow portion of the finished article, casting metal to form the body of the article about said core without melting or buckling the core, and dissolving out said core with a reagent capable of dissolving



the core without substantially affecting the body material.

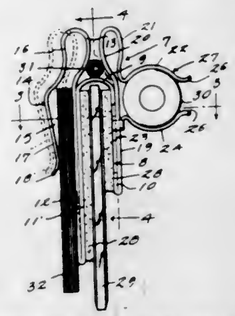
2,609,577
BELT BUCKLE
Paul A. Beyer, St. Clair Shores, Mich.
Application December 6, 1949, Serial No. 131,341
2 Claims. (Cl. 24—77)



1. In combination with a belt, a buckle for detachably securing the opposite ends of the belt together comprising a main body member exhibiting a relatively flat front side and provided adjacent to one end thereof with a transverse slot extending substantially transversely the full width of the member and through which one end of the belt is slidably insertable, said member being provided with side flanges projecting rearwardly of the member relative to the front side thereof and extending substantially the full length of the member to form an open ended channel, the end portions of said side flanges opposite to said slot having extensions bent inwardly toward one another in the same plane to form a back wall spaced from the main body member and cooperating therewith to form a narrow end opening passage of a size to admit the opposite end of the belt, said back wall being shaped to provide a recess opening in the direction of the transverse slot, said opposite end of the belt extending through the end opening of the passage and being received between the main body member and said back wall, and a clip carried by said opposite end of the belt and projecting rearwardly thereof and into said recess to releasably lock the buckle to said end of the belt.

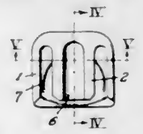
2,609,578
HOLDER FOR LADY'S MAKE-UP ARTICLES
Sarah S. Andary, Winter Park, Fla.
Application April 7, 1950, Serial No. 154,560
2 Claims. (Cl. 24—81)

1. A holder of the character described comprising a spring clip having legs spring biased toward one and other and adapted to detachably clamp a first article therebetween, one leg of said spring clip having an outwardly turned back extension at its free end normally disposed against the outer side and said leg, said turned back extension terminating in an outwardly turned back portion having an outturned terminal portion extending laterally away from said leg extension and forming a resilient clamping jaw, an adjustable clamping jaw having hook portions slidably engaging said leg extension and slidably movable toward and away from the resilient clamping jaw for releasably engaging a second article to be supported between said clamping jaws, said hook portions fulcruming on said leg extension when the resilient clamping jaw is in yieldable engagement with the second article supported between said jaws to cause said hook



portions to frictionally engage the leg extension to retain the slidable clamping jaw in an article gripping position, said leg having an intermediate part of reduced width providing recesses along each side edge thereof in which portions of the hooks of the adjustable clamping jaw slidably fit for limiting sliding movement of said hooks and sliding movement of the adjustable clamping jaw toward and away from said resilient clamping jaw.

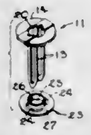
2,609,579
CLOTHES PEG
Jack Hansen, Lysaker, Norway
Application December 10, 1948, Serial No. 64,650
2 Claims. (Cl. 24—138)



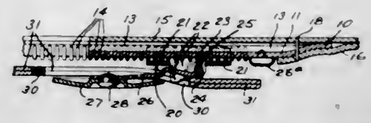
1. A clothes-peg made in one piece and comprising a substantially inverted U-shaped transversely curved body including a medial portion, a rear wall and a front wall and having a curved groove between the walls which is adapted to engage the opposite sides of the clothes line upon the thrusting of the body downwardly on the line, the front wall having the shape of a tongue, the thickness of which is substantially less than that of the rear wall and the breadth of which is less than that of the rear wall, and the rear wall being further provided with a curved slot to provide a tongue which is disposed opposite to the tongue-like front wall while the free end thereof is located a short distance from the inner end of the groove.

2,609,580
PIN BINDER
Paul H. Dixon, Rockford, Ill., assignor to Dixon Research, Inc., Rockford, Ill., a corporation of Illinois
Application June 7, 1949, Serial No. 97,654
1 Claim. (Cl. 24—153)

A fastener comprising a flat disk, and two elongated legs of arcuate cross section secured to and projecting from said disk in laterally spaced parallel relation, the outer surfaces of said legs being concentric with the axis of said disk and lying on a common cylinder and each of said legs having a longitudinal slot extending substantially throughout its length to facilitate lateral bending of the legs toward and away from each other.

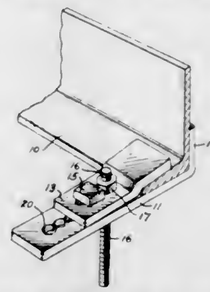


2,609,581
ADJUSTABLE BUTTON
Noel Statham, New Canaan, Conn.
Application March 8, 1950, Serial No. 148,379
1 Claim. (Cl. 24—206)



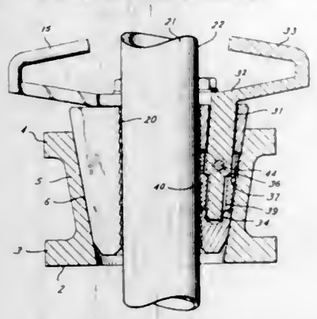
In an adjustable fastening device adapted for adjustably securing two parts of clothing together, a track consisting of a strip of flexible material for securement directly to one of said parts, and a slider engaging beneath the edges of said track having its free edges spaced from one another, said slider being movable along said track and having a clamp co-acting with the track for fixedly securing the slider at a desired point thereon; the combination of the foregoing with an elongated actuating tab for said clamp extending along said strip and directed toward the other of said two parts when the clamp is in its clamping position, said tab having a button secured thereto adapted to engage a buttonhole in the other of said parts.

2,609,582
ADJUSTABLE BEAM CLAMP
Harry L. Kindorf and Orlan C. Kindorf, San Francisco, Calif., assignors to The Kindorf Co., San Francisco, Calif., a corporation of California
Application August 1, 1949, Serial No. 107,993
3 Claims. (Cl. 24—243)



1. An adjustable beam clamp having separable parts engageable with opposite sides of a beam flange, bolts adapted to extend through said parts for clamping them to the flange, and both said parts having perforations to receive said bolts, the perforations on each part being formed in patterns of overlapping circles to provide a wide range of adjustability in small increments of the parts in their relative positions.

2,609,583
SUPPORTING AND TURNING SLIP FOR PIPES
William E. Barber, Houston, and George H. Allen, La Porte, Tex.
Application April 30, 1949, Serial No. 90,578
1 Claim. (Cl. 24—263)



A combination make-up and back-up slip comprising a set of tapered jaws to support and grip the pipe in the well, latching means carried by one of said jaws to engage both the pipe and the slip bowl in which the slips are seated in supporting the pipe so as to lock the pipe to be rotated with or held stationary by the slip bowl, said means including a window in one of the slip jaws, a shaft turnable in said window and an eccentric latch bushing mounted on said shaft and having diametrically opposed enlarged portions thereon, said bushing being rotatable in said window to project one of said enlarged portions inwardly to engage the pipe and the other of said enlarged portions outwardly to engage the slip bowl, and a handle on said shaft to turn said bushing.

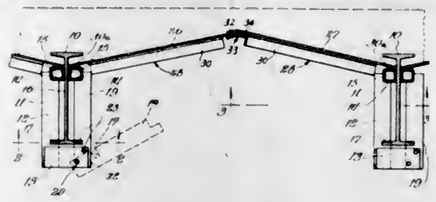
2,609,584
END CONNECTOR FOR FLEXIBLE BRACELETS
Armand J. Garreau, Newport, R. I.
Application April 16, 1946, Serial No. 662,558
2 Claims. (Cl. 24—265)



1. An end connector for a spring coil bracelet, comprising an end roll, and a body portion having two spaced sides connected at their upper edges to the end roll by curved neck portions, said body portion sides having their lower edges inclined with respect to the upper ends, whereby the body portion opening at one edge is of greater width than the body portion opening at the other edge, said lower edges each having an inwardly extending flange.

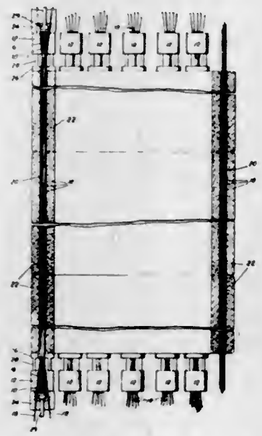
2,609,585
APPARATUS FOR CONSTRUCTING CONCRETE FLOORS
James Ledbetter, Centralia, Ill.
Application December 17, 1948, Serial No. 65,824
3 Claims. (Cl. 25—131.5)

1. A floor forming apparatus for supporting a floor of cementitious material above and between a pair of I-beams arranged in spaced and parallel relation; said apparatus comprising a plurality of upwardly extending independently arranged clamps evenly distributed on and carried by the lower flange portions of each I-beam; each of said clamps comprises a pair of vertical standards in spaced relation and connected by a hinge flange adjacent their bottom in spaced and parallel position, one on each side of the web of its respective I-beam and flange; oppositely disposed



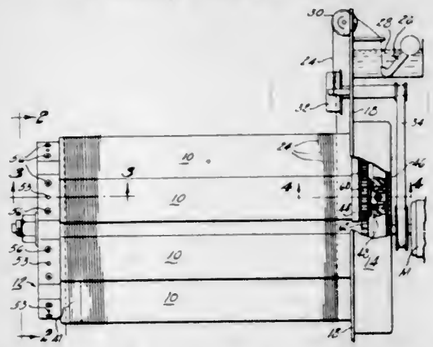
notches adjacent the inner lower end of each standard of each clamp supported on its respective I-beam flange; an inwardly and upwardly open notch at the upper end of each of said standards; a longitudinally arranged rod mounted against each side of each web in said inwardly and upwardly open notch of said standards arranged and adapted to form bottom end supports for tongue and groove form plates.

2,609,586
METHOD AND APPARATUS FOR STRESSING CONCRETE
Richard M. Parry, Teaneck, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a corporation of New Jersey
Application December 13, 1949, Serial No. 132,654
7 Claims. (Cl. 25—154)



1. In apparatus for the stressing of concrete members by the use of wires and the like extending through cavities in the concrete and initially protruding therefrom, the combination comprising clamping means including a clamping member having a conical opening adapted to receive protruding portions of the wires and a conical clamping member adapted to be received in said opening and to clamp the wires with respect to the walls of said opening, a stool member adapted to be positioned between said clamping means and the surface of the concrete, such stool member containing space permitting the wires to extend from the cavity in the concrete into said clamping means, and a mass of readily removable temporary filler means forming a body of solid material in said space within said stool and surrounding the wire portions therein, but containing a passage for forming a continuation of the cavity in the concrete, said second named clamping member also having a central opening therethrough communicating with said passage, said temporary filler means serving effectively to seal the surface of the concrete surrounding the cavity therein with respect to portions of the clamping means surrounding the wires while leaving such passage to permit injection of grout under pressure through the clamping means and filler means into the space surrounding the wires in the cavity in the concrete, and whereby upon removal of said temporary filler means, the wires will be exposed in the stool to permit cutting thereof for release of the clamping means.

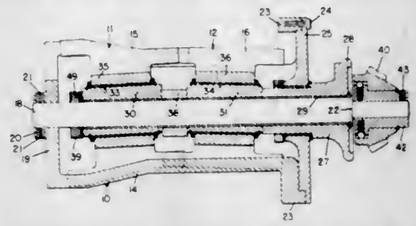
2,609,587
FILAMENT STORING AND ADVANCING REEL
Harry Asdour Kuljian, Merion, Pa.
Application May 17, 1950, Serial No. 162,578
5 Claims. (Cl. 28—71.7)



1. A filament storing and advancing reel comprising a first end support, a second end support spaced from, and coaxial with said first support, a plurality of individually rotatable rolls disposed between said supports, and means for securing each of said rolls in position in an individually removable manner, said means including an abutment on said first support, one end of said roll being engageable with and disengageable from said abutment by movement of the roll toward, or away from, said first support in the direction of the axis rotation of said roll, and fastening means engageable with, and disengageable from the other end of said roll and said second end support for detachably securing said other end of said roll to said second support.

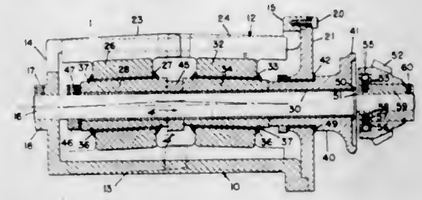
2,609,588
MULTIPLE STAGE THREAD PROCESSING REEL
Lorin A. Corey, Cleveland Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application November 20, 1947, Serial No. 787,245
2 Claims. (Cl. 28—71.7)

1. A multiple stage thread processing reel comprising, a reel member having a plurality of longitudinally extending bar members of continuous length, said bar members being of a shape that is adapted to effect a physical change in thread traveling over them, and at least two reel members in substantially an end-to-end relation each having a plurality of bar members interleaved with said bar members of said first reel member and rotating on axes that are eccentric to the axis of said first mentioned reel member, said eccentric axes being arranged in an end-to-end relation about the axis of the first reel member and at angles so that they intersect, the bar members of said two reel members in their com-



bined length being substantially equal to the length of the bar members of said first reel member and their shape conforming to the shape of the bar members of said first mentioned reel member.

2,609,589
MULTIPLE STAGE PROCESSING REEL
Albert W. Eidman, South Euclid, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application November 21, 1947, Serial No. 787,368
4 Claims. (Cl. 28—71.7)



1. A thread advancing reel comprising, a shaft, a reel member concentrically positioned about said shaft having a plurality of longitudinally extending bar members, and a plurality of reel members having longitudinally extending bar members also positioned about said shaft on axes arranged in an end-to-end relation about the axis of said shaft each at an angle to said shaft axis so that they intersect, said plurality of reel members being disposed in an end-to-end relation on the intersecting axes and their bar members being in an alternate relation with the bar members of said concentrically positioned reel member.

2,609,590
METHOD OF MANUFACTURING A FILAMENT UNIT
Harry Bender, Princeton, and William B. Voorhis, East Orange, N. J., assignors to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Original application August 4, 1945, Serial No. 608,960, now Patent No. 2,482,826, dated September 27, 1949. Divided and this application October 30, 1948, Serial No. 57,482
2 Claims. (Cl. 29—25.18)

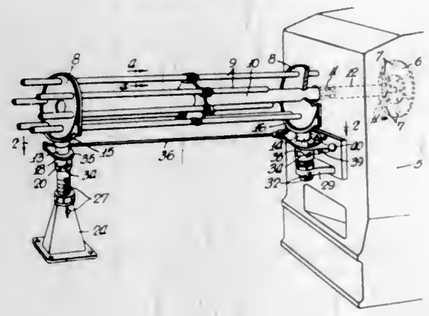
1. The method of making an elongated coiled non-self-supporting cathode heating filament unit for thermionic tubes comprising the steps of flattening the ends of a unit of filament wire closely wound about a mandrel and embedding the adjacent filament turns in the flattened surfaces of the unit, forming the unit into a V and immersing the V unit thus formed into a chemical bath to dissolve out the mandrel up to points

spaced from the flattened parts and then lowering the V unit into the bath for reducing the



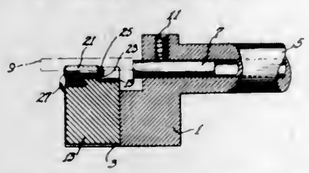
diameter of the inner ends of the remaining part of the mandrel.

2,609,591
STOCK REEL
William B. Retz, Plainville, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application December 12, 1946, Serial No. 715,818
3 Claims. (Cl. 29—37)



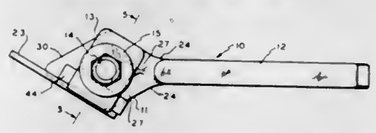
1. A stock support comprising an elongated stock reel for supporting bars of stock to be fed into an automatic lathe or the like, supports for the ends of said reel, individually adjustable mounting means for said supports whereby said reel may be leveled and aligned relative to said lathe spindles, cam means positioned between said mounting means and said supports, and a common actuating means for said cam means, whereby said reel may be additionally aligned relative to said lathe spindles for different sizes of stock with a single operation.

2,609,592
WORK SUPPORTING ATTACHMENT FOR SCREW MACHINES AND THE LIKE
Samuel O. Shumaker, Merchantville, N. J.
Application March 7, 1950, Serial No. 148,078
9 Claims. (Cl. 29—57)



1. A work supporting attachment for screw machines and the like, said attachment comprising a roller block having at least one seat in one end thereof, and a roller rotatably carried in said seat, said seat extending into said block a distance short of the thickness of said block and terminating in a second seat angularly related to said first named seat, one end of said roller also engaging said second seat.

2,609,593
LATHE TOOL HOLDER
Carl M. Rhodin, Newport, R. I.
Application January 29, 1951, Serial No. 208,295
5 Claims. (Cl. 29—96)

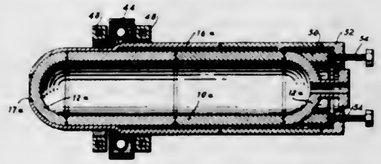


1. A lathe tool holder comprising a shank having integral therewith a head provided with oppositely disposed bevelled walls and forwardly located vertical walls disposed at an angle to each other, a top floor on said head having recessed ledges therein extending parallel to said forwardly disposed vertical walls, said floor ledges having a vertical wall spaced from the vertical wall of the head, said head having a vertical aperture therein for cooperation with a securing means, and a clamp arranged to be secured on said head, securing means for holding said clamp to said head, said clamp having a bevelled foot at one end thereof, the angle of said bevelled foot being complementary to the angle of the bevelled walls of said tool holder head, a vertically depending toe at the opposite end of said clamp and a lower floor on said clamp extending from said vertically extending toe toward said bevelled foot thereby providing a right angular ledge complementary to the ledges on said tool head, and an elongated slot through said clamp through which said securing means extends to said securing aperture in said head, said bevelled foot of said clamp cooperating with one of said bevelled walls of said tool holder head as said clamp is secured by said securing means to grip a tool bit in at least four line contact between said ledge of said clamp and one of said ledges of said tool holder head.

2,609,594
METHOD OF PRODUCING VITREOUS ENAMELLED METAL ARTICLES
Roland A. Whitbeck, Lorain, Ohio, assignor to Gilron Products Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application October 18, 1949, Serial No. 122,147
14 Claims. (Cl. 29—148)

1. The method of producing vitreous enamelled metal articles comprising coating heavy tooth porous metal stock to a thickness sufficient to coat the peaks of the teeth of the stock and substantially fill the valleys between the teeth with a water-soluble, homogeneous, self-adherent and tenacious dry lubricating and protective reinforcing coating having sufficient body resistance to compression to reinforce and prevent substantial deformation of the teeth of the stock during cold pressure forming thereof between two metallic dies, cold pressure forming the coated stock into the desired shape between two metallic dies in the absence of any additional lubricants, washing off in an aqueous bath at least a major portion of the coating material remaining after the shaping operation, drying the shaped stock, whereby the teeth and porosity of the stock are preserved, and subsequently, in the absence of any pickling operation sufficient to cause substantial change in the shape of the teeth of the stock, vitreous enamelling the shaped stock directly on the formed surface while its tooth and porosity are substantially in the condition in which they existed at the completion of the washing step.

2,609,595
METHOD OF FORMING LAMINATED PRESSURE VESSELS
David B. Rossheim, Teaneck, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of New Jersey
Application May 18, 1948, Serial No. 27,805
5 Claims. (Cl. 29—148.2)



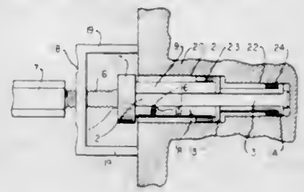
1. The method of manufacturing multi-layer high-pressure vessels comprising the steps of providing an inner shell having a predetermined outside diameter, providing an outer shell having an internal diameter greater than said predetermined diameter, locating said inner shell inside of said outer shell, heating a circumferential band of said outer shell having a width not greater than three-quarters of the natural buckling wave length of the material of said outer shell to render it relatively plastic, applying a longitudinal compressive force to said outer shell of sufficient magnitude to upset said heated band by substantially uniform plastic flow to cause the inner surface thereof to contact the outer surface of said inner shell, progressively heating substantially similar circumferential bands along the length of said outer shell, and continuing the application of said longitudinal compressive force to said outer shell to progressively reduce the diameter thereof.

2,609,596
METHOD OF MAKING SHEET METAL BUSHINGS
Edward B. Clark, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application July 9, 1947, Serial No. 759,731
2 Claims. (Cl. 29—148.2)



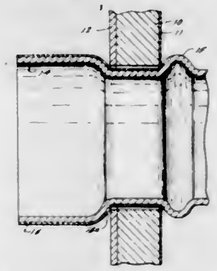
2. Method of making an electrical conduit bushing comprising the steps of blanking out a disk of sheet metal, piercing a plurality of holes therein on a circle concentric with the edge of the disk, forming the disk into a cup shape with a dished bottom and with said holes positioned around the side of the cup adjacent the bottom, axially compressing the cup while holding the unperforated annular portion of the side wall thereof against deformation whereby the bottom of the cup is flattened and an outwardly extending annular bulge is formed in the perforated portion of the side wall of the cup, perforating the center portion of the bottom of the cup and threading the interior of the cup.

2,609,597
TWIN BUSHING PULLER
Michael Claps, Denver, Colo.
Application July 24, 1947, Serial No. 763,206
2 Claims. (Cl. 29—265)



1. In a bushing puller for simultaneously pulling two axially spaced bushings of different diameters or equivalent elements positioned in a housing structure, like independent pulling fingers each of which is made as a single integral piece and provided with longitudinally spaced shoulders for engaging the inner ends of the bushing to be pulled and also being so constructed that the shoulder means can be passed through the bushing with which said means is to engage, a stem of uniform diameter positionable between the fingers to maintain by direct engagement with the fingers the shoulder means thereof in engagement with the bushings, bayonet joint means for detachably connecting the fingers to the stem by a rotation of the stem only afte rsaid stem is positioned between the fingers, and means including screw means cooperating with the stem for moving the fingers and stem outwardly of the structure to thereby simultaneously remove the bushings.

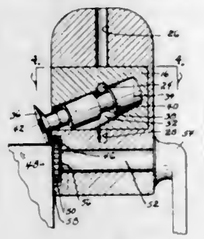
2,609,598
METHOD OF FORMING A COMPOSITE STRUCTURE COMPRISING A CHROME-CONTAINING MEMBER
Frederick H. Mason, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 27, 1947, Serial No. 776,485
2 Claims. (Cl. 29—378)



2. A method of bonding a first part having a surface containing nickel and more than about 5% chromium to a second part having a surface containing nickel and less than about 5% chromium, said method comprising coating the surface of the first part with nickel, juxtaposing the parts so as to bring the surface of the second part in closely spaced relation to the nickel coating on the surface of the first part, applying heat to the juxtaposed parts in the presence of a copper bonding metal for the ultimate bonding of the same together, to a temperature above 1500° F. at which the nickel coating alloys with the first part, and maintaining the parts at a temperature above 1500° F. for a sufficient time for the nickel coating on the first part to alloy

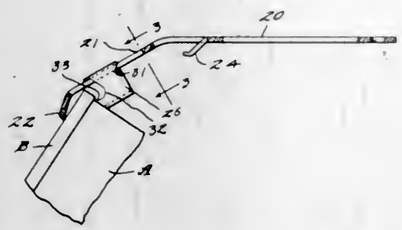
with the chromium-containing first part without the chromium thereof penetrating through the nickel coating in substantial quantities to the external surface of the latter and at a temperature up to 2100° F. for causing the copper metal to melt in order to flow between the nickel coating and the surface on the second member and alloy therewith.

2,609,599
CAN OPENER
Donald M. Wilson, West Des Moines, Iowa
Application April 26, 1952, Serial No. 284,503
5 Claims. (Cl. 30—9)



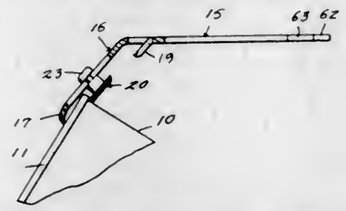
1. In a can opener, a body portion; said body portion having a transverse well therein, an arbor cylinder rotatably mounted in the well of said body portion, means for limiting the rotation of said arbor cylinder; said arbor cylinder having an eccentrically positioned well therein, a cylinder fitting within said arbor well, a cutter blade secured to said cylinder, a lever secured to said arbor cylinder for rotating it within its limits; means for holding said cylinder in said arbor well when said arbor is at one limit of its rotation, means for freeing said cylinder from said arbor well when said arbor is at the other limit of its rotation, a driving gear rotatably mounted on said body below said arbor cylinder, and a means for rotating said driving gear.

2,609,600
CONTAINER OPENER
William D. Husted, Shavertown, Pa.
Application December 16, 1948, Serial No. 65,551
3 Claims. (Cl. 30—16)



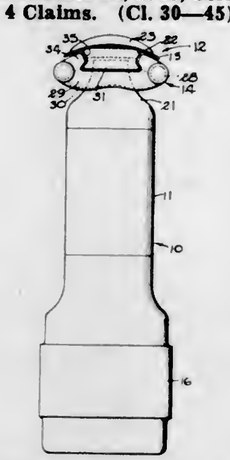
1. A can opener comprising a flat tapered blade formed with an offset obtusely disposed puncturing point and having a longitudinal slot therein, and a can rim engaging means slidably mounted on said blade for adjustment relative to said point, said can rim engaging means including a U-shaped member slidably disposed in said slot, means on said member extending over the top of said blade, means on said member adapted to engage the bottom surface of said blade, and hooked portions formed on the parallel sides of said member for engaging a can rim.

2,609,601
CAN OPENER
William D. Husted, Shavertown, Pa.
Application July 17, 1950, Serial No. 174,325
3 Claims. (Cl. 30—16)



1. A can opener comprising a flat tapered blade formed with an elongated lengthwise slot and an enlarged opening at the inner end of said slot, a can rim engaging member disposed on the lower side of said blade and including a shank loosely engaging through said slot and a plate disposed on the upper side of said blade, a headed securing member fixed to said plate and engaging loosely through said slot, said securing member being disposed in spaced relation with respect to said shank and cooperating with said shank in holding the latter and said rim engaging member against turning, the head of said securing member being initially inserted through said enlarged opening, and means restricting the inner end of said slot whereby said securing member will be held against entering said enlarged opening.

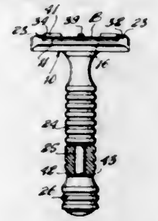
2,609,602
VIBRATING SAFETY RAZOR WITH YIELDABLY MOUNTED BLADE GUARD
Russell P. Harshberger, Altadena, Calif.
Application December 18, 1946, Serial No. 717,049
4 Claims. (Cl. 30—45)



1. In a power driven razor, in combination with an elongated casing enclosing power operable means tending to impart a gyratory motion to one end thereof, a rectangular bed and overlying shoe adapted to clamp an elongated razor blade therebetween and centrally secured crosswise to said end of said casing, said bed having end flanges on the underside extending transversely thereof, a rectangular frame constituting a guard member extending freely about said end and underlying said bed, said frame having end plates normally disposed in edge-to-edge alinement with said flanges and spaced therefrom by

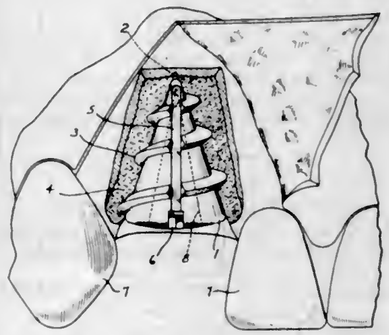
a slight clearance, and two flat rubber strips molded against the inner surfaces of said flanges and plates whereby to provide a yieldable connection between said bed and guard member.

2,609,603
SAFETY RAZOR
Barney R. Nyhagen, New York, N. Y.
Application August 19, 1949, Serial No. 111,193
2 Claims. (Cl. 30—60)



1. In a safety razor, a blade holder having guard edge portions at the opposite sides thereof and raised areas at the opposite ends of said guard edge portions for supporting the blade at the four corners thereof with the blade disposed flatly upon said raised areas with the cutting edges thereof spaced above the guard edge portions between said raised areas, blade clamping means movable into overlying relation with the blade at the ends thereof for releasably securing the blade in flat unflexed condition on the holder, a medial clamping element movable with said means into overlying relation with the blade medially of the ends thereof for preventing the outward flexing of the blade and permitting of the inward flexing of said blade between said raised areas, a handle, and a manipulating knob carried by said handle for manually moving said blade clamping means and said clamping element into and out of overlying engagement with the blade.

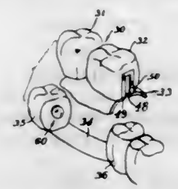
2,609,604
DENTAL SCREW INSERT
Boyd F. Sprague, Klamath Falls, Oreg.
Application February 14, 1949, Serial No. 76,220
7 Claims. (Cl. 32—1)



1. A dental insert for plugging the socket formed by the extraction of a tooth, comprising a conical body, a screw thread extending spirally about the periphery of said conical body from apex to base, and at least one groove formed in the peripheral surface of said body and extending longitudinally thereof from apex to base, said body having a conical hole means extending axially therein toward the apex thereof

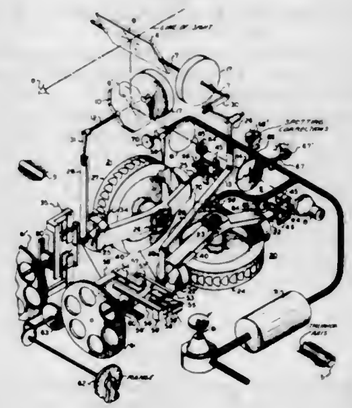
for securing a false tooth detachably to said insert, said hole being filled temporarily with a plastic material capable of being removed when said false tooth is to be installed.

2,609,605
DENTURE RETAINING MEANS
James Patrick Dillon, New York, N. Y.
Application February 7, 1948, Serial No. 6,838
1 Claim. (Cl. 32—5)



Denture retaining means for interengaging a removable denture element with a permanent dental element comprising a stud said stud having a shank member secured to one element at one end thereof and a button on the opposite end of the shank carried by the permanent element and a slotted clasp carried by the removable denture and releasably engageable with said shank and button of the stud; said slotted clasp comprising a wire bent to define a slot and additionally bent to define an extension engaged by said removable denture and additionally bent to form a semi-circle section to rest on the button of said stud.

2,609,606
GUNSIGHT HAVING LEAD COMPUTING DEVICE
Charles S. Draper, Newton, and Edward P. Brentley, Wollaston, Mass., assignors, by mesne assignments, to Research Corporation, a corporation of New York
Application April 27, 1942, Serial No. 440,660
42 Claims. (Cl. 33—49)



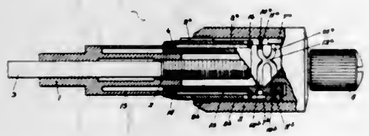
1. In a predicting device for fire control, the combination of a gun element and the sighting element therefor, a rate gyroscope mounted on the gun element for precession through an angle proportional to the rate of turn thereof, resilient means having an elastic constant (k) acting about the precession axis of said gyroscope for centralizing said gyroscope, damping means also

acting about the precession axis having a damping constant (c) opposing motion about the axis of precession substantially in proportion to the velocity of the motion, said elastic and damping constants having values such that

$$\frac{c}{kS} > 1$$

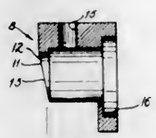
where S is the sensitivity of the device, and means actuated by the precessional movements of the gyro for introducing a prediction or lead angle between the gun and sighting elements proportional to said angle of precession.

2,609,607
MICROMETER
Wilhelm Rinker, Otto Sanger, and Ernst Leitz, Jr., Wetzlar, Germany, assignors to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a German corporation
Application March 24, 1949, Serial No. 83,136
In Germany October 1, 1948
5 Claims. (Cl. 33—164)



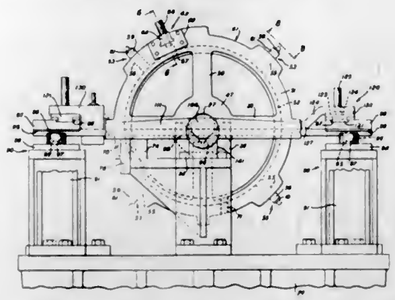
1. In a micrometer comprising a fixed sleeve member, a revolvable spindle member threaded therein, a first measuring scale carried by the fixed sleeve member, and a thimble revolvable together with the spindle member and carrying a second measuring scale adapted to show subdivisions of the units shown upon the first measuring scale, at least one slide member and guide means therefor in the interior of the thimble, said guide means being adapted to advance and retract said slide member during revolution of the spindle and the thimble.

2,609,608
SPINDLE OR ANVIL ATTACHMENT FOR A MICROMETER
Paul M. Zumstein, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application October 16, 1948, Serial No. 54,908
9 Claims. (Cl. 33—167)



1. A spindle or anvil attachment for a micrometer comprising a hollow piece having connected holding arms, said arms each having an outer face sloping inwardly toward said spindle or anvil, a closure washer within said hollow piece and forming therewith a socket, said closure washer having an internal bore therein substantially equal in diameter to said spindle or anvil, and a ball within said socket, said hollow piece having a hole therein whose axis is transverse to the axis of the spindle or anvil and displaced from the end thereof a distance equal to the radius of said ball.

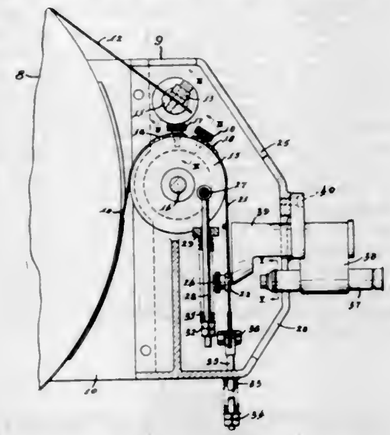
2,609,609
GAUGE FOR CHECKING PARTS OF CYLINDRICAL ARTICLES
Earl C. Moss, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 10, 1946, Serial No. 682,673
4 Claims. (Cl. 33—174)



1. In a gage, for checking parts of cylindrical articles, heads for mounting on the ends of a cylindrical article and having central apertures therein, clamps disposed at spaced positions adjacent the outer peripheries of the heads and supported by the heads for radial movement thereon relative to the centerlines of the apertures, calibrated elements carried by the heads for moving their respective clamps measured distances whereby the heads may be firmly secured to their ends of the article and the centerlines of the said apertures located in alignment with each other and coincident with the centerline of the article, a shaft to rotatably support the heads and the article extending through the apertures in the heads and through the article with its axis coincident with their centerlines, means to support the shaft whereby its axis and the centerline of the article will lie in a given plane, a table having a guide portion extending longitudinally of the table and the article, means to support the table for movement in a plane parallel with the said given plane of the axis of the shaft and the centerline of the article, an element removably connecting the guide portion and the shaft to locate and hold the table with the guide portion thereof parallel with the centerline of the article, and a gaging unit movable in the said guide portion to gage the position of a part of the cylindrical article relative to the centerline of the article.

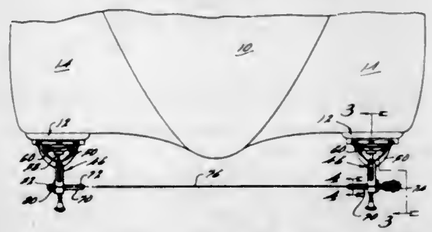
2,609,610
GAUGE FOR ROLL CROWNS
John A. Elmes, Beaver Falls, Pa., assignor to Ryman Engineering Company, Ellwood City, Pa., a corporation of Pennsylvania
Application May 1, 1950, Serial No. 159,313
4 Claims. (Cl. 33—179)

1. Guaging apparatus comprising a tape adapted for looped engagement with a cylindrical body, a casing having means thereon for anchoring one end of the tape and being adapted to seat against the said body, a drum journaled in the casing and having connection with the other end of the tape, a spring-tensioned device for biasing the drum in a direction tending to wrap the tape thereon, an indicator tape secured at one end to the drum, and a spring device engageable with the other end of the indicator tape to maintain it under tension, the tape being provided with an



indicating mark that is movable therewith upon movements of the drum.

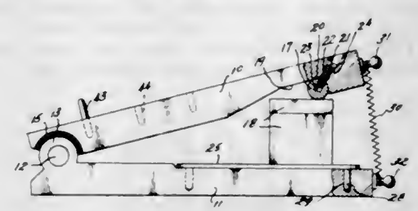
2,609,611
APPARATUS FOR ADJUSTING VEHICLE HEADLAMPS
John B. Dickson, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 13, 1950, Serial No. 155,685
8 Claims. (Cl. 33—180)



1. Apparatus for determining the proper adjustment of a pair of vehicle headlamps provided with a lens and a retaining ring, said apparatus comprising a pair of devices each having a frame provided with a surface adapted to be seated on said retaining rings, a vacuum cup carried by each of said frames and adapted to adhere to the lens of one of said headlamps to hold its respective device in assembled relationship with said headlamp, with said surface seated on the retaining ring thereof, means on each of said devices to indicate when the axis of its associated headlamp is inclined a predetermined amount to the horizontal and means to indicate when the axes of said headlamps are aligned with the longitudinal axis of the vehicle.

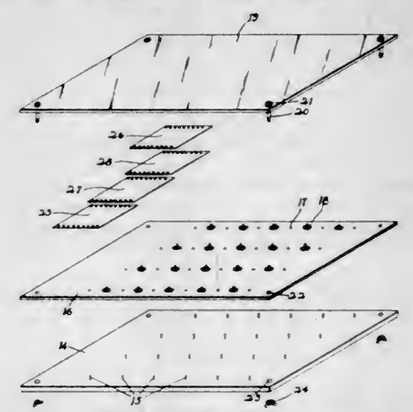
2,609,612
SINE PROTRACTOR
Raymond Arthur Mull, St. Joseph Township, Berrien County, Mich.
Application August 14, 1946, Serial No. 690,371
4 Claims. (Cl. 33—174)

3. In combination in a sine protractor assembly, a base having a true plane gage block receiving surface, a sine bar member cooperatively related to the base bar member for angular displacement relative to said plane surface, a flat retainer frame lying on said plane surface and having a slot therein of a width and length to receive a gage block either lengthwise or on end closely between the longitudinal edges defining



the slot and with the gage block resting accurately in face to face relation on said plane surface, and means for retaining said retainer frame against displacement in any direction parallel to said plane surface.

2,609,613
COLLOCATING PRINTING MEMBER
Claude V. Capers, Atlanta, Ga.
Application January 29, 1947, Serial No. 724,945
4 Claims. (Cl. 33—184.5)

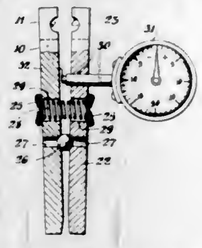


1. In a device of the character described, a generally rectangular master plate, a plurality of vertically extending pegs spacedly mounted thereon, a supporting frame having a plurality of spaced apertures corresponding in position to the pegs of said master plate, a series of spring teats spacedly anchored to said frame, a plurality of cards adapted to be mounted on said frame in conjunction with said pegs and teats, the marginal edges of said cards having holes for receiving said pegs and teats, the position of the holes in the cards corresponding to that of said pegs and teats, a transparent cover for said cards and frame, and means for rigidly securing said cover to said cards and frame.

2,609,614
ALIGNED THREAD GAUGE
Stanley G. Johnson, West Hartford, Conn., assignor to The Johnson Gage Company, Bloomfield, Conn., a corporation of Connecticut
Application April 13, 1946, Serial No. 661,955
5 Claims. (Cl. 33—199)

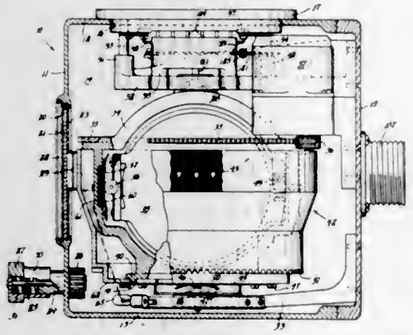
1. A thread gage comprising a pair of gage members each having a long threaded gaging portion with a plurality of full formed gaging threads which portions cooperate to engage a

threaded test part and form an overall assemble-ability gage, a second threaded gaging portion carried by each of the pair of gaging members having a maximum of three gaging threads to form short pitch diameter gaging portions, the overall assemble-ability and pitch diameter gaging portions being fixed with respect to each other and being in axial alignment, the gaging threads being of the same pitch diameter and a continuation of each other, the long and short



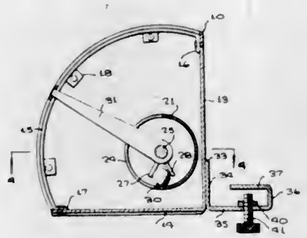
gaging portions being axially spaced from each other whereby each gaging portion may be engaged individually by a test part, the flanks of the gaging threads of the short gaging portions being shorter radially than those of a full thread but including the pitch lines of the thread, means mounting at least one gage member for movement towards and away from the other to open and close the gaging portions, and means to indicate the relative position of the gage members.

2,609,615
GYROSCOPIC INSTRUMENT
Paul F. Shivers, Edina, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 26, 1945, Serial No. 618,677
4 Claims. (Cl. 33—204)



2. In a device of the class described, in combination: a gyroscope having a spin axis and cardanic means mounting said gyroscope for a predetermined nomal orientation of said axis; a casing for said gyroscope and cardanic means; means including a motor means for applying a torque between said casing and said cardanic mounting means; means responsive to a departure of said axis from said normal orientation for controlling said motor means to precessibly return said axis to said normal orientation; an indicating member directly mounted on said cardanic mounting means in frictional engagement therewith, said indicating means being graduated and provided with indicia indicating angular displacement; means for continuously holding said indicating member in operative frictional engagement with said cardanic mounting means with sufficient force that said indicating member can not be slid with respect to said cardanic mounting means without an appreciable tendency toward precessional movement of said gyroscope; an index carried by said casing for visual cooperation with said graduations on said indicating member; and means mounted on said casing and adapted to selectively engage said indicating member without interrupting the gyroscopic stability of the gyroscope and rotate the indicating member against the restraining effect of said frictional engagement so as to cause sliding relative movement between said indicating member and said cardanic mounting means, said motor means having a torque output sufficient to overcome said frictional engagement between said indicating member and said cardanic mounting means to maintain said gyroscope in a substantially normal operation in its predetermined orientation.

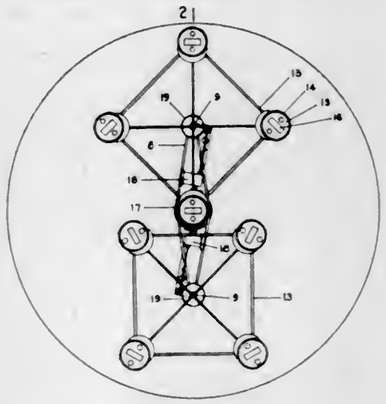
2,609,616
GRADE INDICATOR FOR AUTOMOTIVE VEHICLES
Waldemar B. Mueller, Chicago, Ill.
Application January 4, 1952, Serial No. 264,867
3 Claims. (Cl. 33—206)



3. A grade indicating instrument comprising a substantially sector shaped housing having a front wall arcuately curved longitudinally thereof and provided with a grade indicating scale extending longitudinally thereof, said housing having a substantially right angular corner opposite said front wall, a cage of cylindrical shape mounted in said housing adjacent said right angular corner, a shaft extending through said cage coaxially of the latter and of the curvature of said front wall, angularly spaced apart vanes projecting radially from said shaft within said cage, a ball of heavy material disposed between said vanes and riding on the inner surface of said cage, an arm mounted on said shaft coaxially of the latter and movable with said vanes about the axis of said shaft, and a pointer on the other end of said arm movable along said scale.

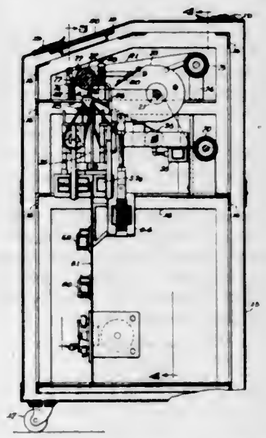
2,609,617
CENTRIFUGE
Roland A. Hall, Dunwoody, Ga., assignor to Tennessee Valley Authority
Application August 29, 1949, Serial No. 112,918
7 Claims. (Cl. 34—58)

1. A centrifuge comprising in combination a central power-driven shaft; a cross member attached to and carried by said central shaft adjacent to an end thereof; a plurality of spindles attached to and carried by said cross member, singly disposed equidistant from each other in a consecutive series around the circumference of a circle having its center at the longitudinal axis of said central shaft; a plurality of head members, singly disposed upon and rotatably carried by each of said spindles; a plurality of containers adapted to hold materials to be centrifuged; mechanical means, attached to and carried by each of said head members, for detachably holding the plurality of said containers singly disposed equidistant from each other in a consecutive series around the circumference of a circle having its center at the center of the corresponding spindle, having a radius equal to the perpendicular distance between the center



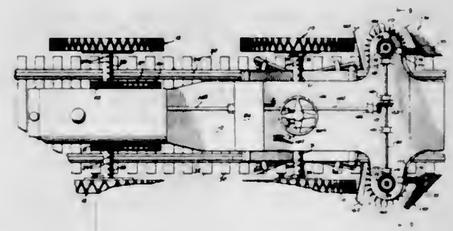
of said spindle and the longitudinal axis of said central shaft, and lying in a plane spaced outward from the end of said central shaft adjacent to said cross member; and mechanical means, driven by power from said central shaft, for rotating said head members around their corresponding spindles in non-interfering relationship with each other at such speed that one revolution around said spindles occurs in the time required for centrifuging said materials.

2,609,618
INTERACTION RECORDER
Eliot D. Chapple, Milton, Mass., assignor to The E. D. Chapple Co., Inc., New York, N. Y., a corporation of Massachusetts
Application November 27, 1948, Serial No. 62,384
18 Claims. (Cl. 35—22)



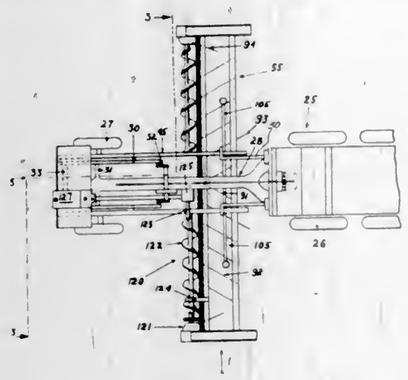
2. An interaction recorder for recording interaction between two individuals (herein differentiated as A and B), comprising two control switches (herein differentiated as key A and key B), one for each individual, each switch having two operative positions and each switch being adapted to occupy its first operative position (herein designated as down) during a period of observed activity on the part of one of the individuals and to occupy its second operative position (herein designated as up) during a period of observed inactivity on the part of the same individual; a primary electrical circuit that is opened and closed by the control switches; a delayed action relay that is included in the primary circuit and that is initially energized only when both control switches are up, but remains momentarily energized after either control switch goes down; a first dependent electrical circuit that is opened and closed by the relay and by the control switches; a first counter actuating mechanism included in the first dependent circuit and adapted to move a counter one unit upon receiving a pulse of current when the relay remains momentarily energized after key A moves from its up to its down position while key B remains up, thereby indicating that individual A initiated activity after both individuals were inactive; a second dependent electrical circuit that is opened and closed by the relay and by the control switches; and a second counter actuating mechanism included in the second dependent circuit and adapted to move a counter one unit upon receiving a pulse of current when the relay remains momentarily energized after key B moves from its up to its down position while key A remains up, thereby indicating that individual B initiated activity after both individuals were inactive.

2,609,619
RAILROAD TRACK SKELETONIZING MACHINE
Harry C. Jones, Magnolia, Ark.
Application August 9, 1946, Serial No. 689,416
3 Claims. (Cl. 37—104)



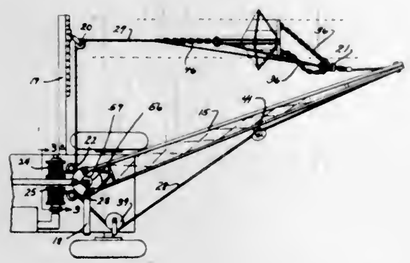
1. In an apparatus for removing railway ballast, a wheel supported platform adapted for straddling travel over a track supported on said ballast, a pair of horizontally disposed endless diggers arranged in end to end spaced and partially overlapped relation positioned transversely of said track and below said platform adjacent the front end thereof and each mounted for rotation about a vertical axis for excavating the railway ballast adjacent thereto, a pair of upstanding spreaders arranged in spaced converging relation positioned forwardly of and spaced from said endless diggers and dependingly supported from said platform, and driving mechanism on said platform and operatively connected to each of said axes for effecting rotation of said endless diggers.

2,609,620
GRADE STRIKER
Adryl W. Gardner and Palmer Wrockloff, Redlands, Calif., assignors to Gardner-Byrne Construction Company, Redlands, Calif., a partnership
Application January 30, 1946, Serial No. 644,293
11 Claims. (Cl. 37—108)



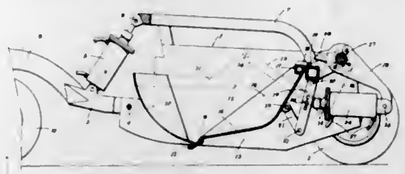
1. A grade striker having a vehicle with a longitudinally extending chassis, the vehicle having driving and steering wheels, longitudinal lever beams fulcrumed on the forward part of the chassis, a transverse bar pivotally connected to the forward ends of the lever beams, a rigid transverse structure pivotally connected to said bar, pulling beams rigidly attached to such transverse rigid structure, a transverse bridge having a rigid connection to the rear ends of the pulling beams, means interconnecting the vehicle and the lever beams to incline such beams as to the longitudinal direction, means interconnecting the vehicle and the pulling beams to incline such beams as to a longitudinal direction and aggregate means mounted on the bridge.

2,609,621
CABLE OPERATED SIDE-LINE DITCHING MACHINE OF THE BOOM TYPE
Luke B. Babin, White Castle, La.
Application November 29, 1946, Serial No. 712,827
1 Claim. (Cl. 37—116)



In a machine for the purposes described, a vehicle, an outrigger projecting laterally from said vehicle, a boom mounted on said vehicle for lateral swinging movement, a hauling cable, a windlass on the vehicle on which one end of the cable is wound, an outrigger pulley mounted upon the outrigger over which the hauling cable is passed and directed away from the outrigger in a line substantially parallel with the line of movement of the vehicle and spaced laterally therefrom, a loop connected at one of its ends to the other end of said hauling cable at the end of such parallel line, a loop pulley supporting the opposite end of the loop through which the opposite end of the loop is rove, a lifting cable having an outer end connected to and carrying said loop pulley, a boom pulley on the outer end portion of said boom over which said lifting cable is passed, a second windlass on the vehicle on which the inner end portion of said lifting cable is wound, a material container, a container support supported and carried from the outer end portion of said lifting cable and having a lower end pivotally connected to the container rearwardly of center of gravity to bias the container to a dumping position, a beam extending forwardly of the container and of said support and coupled to the lower run of said loop whereby when the hauling cable is slack the eccentric weight of the container and its load will pull down upon the lower slackened loop causing dumping and when the hauling cable is put under pulling tension the lower run of the loop will be pulled into substantially straight line position thus rotating the container about its support to an erect position, a bar pivoted to the beam to couple the beam to the lower run of said loop, said bar having a forward end which is at a considerable distance forward of the pivot point, a rigid adjusting strap extending upwardly from the forward end portion of said beam and means affixing said bar to the strap in various angular positions of said bar.

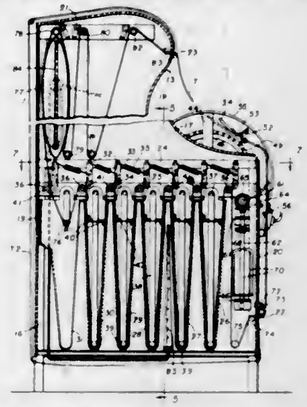
2,609,622
HYDRAULICALLY CONTROLLED APRON AND EJECTOR ASSEMBLY FOR EARTH WORKING SCRAPERS
Donald E. Murray, Modesto, Calif.
Application December 9, 1950, Serial No. 199,975
4 Claims. (Cl. 37—126)



1. In an earth working scraper having a bowl including a longitudinally movable rear endgate and a vertically adjustable front apron cooperating with the bowl; a control mechanism for the rear endgate and front apron comprising separate actuating connections therefor, the connections for the rear endgate including a link pivotally mounted rearwardly of the bowl for swinging in a forward longitudinal direction, the connections for the front apron including a cross shaft mounted adjacent the rear end of the bowl and having a dependent radial lever arm for swinging in a rearward longitudinal direction, the link having greater resistance to forward motion than the lever arm to rearward motion, and a fluid pressure power cylinder connected between said link and lever arm.

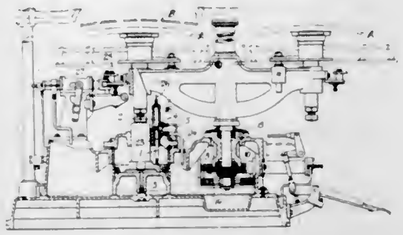
2,609,623
TOWEL WASHING AND IRONING MACHINE
Abba Miller, Cleveland, Ohio
Application March 17, 1947, Serial No. 735,269
2 Claims. (Cl. 38—2)

1. A machine for washing, ironing and dispensing an endless towel comprising a plurality of adjacent vertical tubs open at their upper ends into which successive portions of an endless towel are introduced, an ironing unit mounted within the machine above the tubs over which successive washed portions of a towel are passed, means mounted in each tub for rubbing the



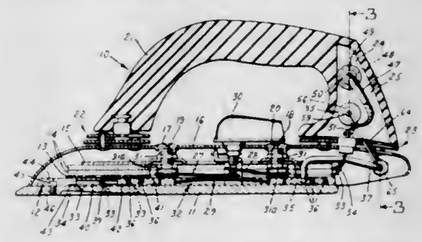
surface of a towel as it is fed through the tubs, means for feeding a towel progressively and sequentially through said tubs, means mounted within the machine in advance of the tubs for spreading a portion of a towel before it enters the tubs, and a heating unit mounted within the machine between an adjacent pair of tubs.

2,609,624
INTERMITTENTLY REVOLVABLE TABLE LAUNDRY PRESS
Ronald Percy Gudgeon, Luton, England
Application February 27, 1948, Serial No. 11,803
In Great Britain November 9, 1945
3 Claims. (Cl. 38—22)



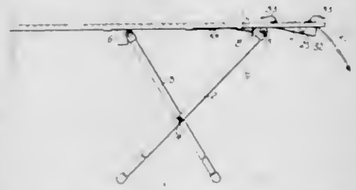
1. An intermittently revolvable table laundry press comprising an intermittently rotatable vertical shaft, a cross arm at the upper end of said shaft rotatable therewith, vertically movable tables carried in end portions of said arm, a fixed head above one indexed position of the tables with one table at a time alined beneath said head, a fluid pressure operated ram piston and ram cylinder therefor alined with said head and table indexed under said head for operating said table in vertical movement thereof, a plunger cylinder fixed with respect to and opposed to said ram cylinder, a plunger in said plunger cylinder in parallelism to said ram piston and in engagement therewith, said plunger having lesser area than said ram piston and being under continuous fluid pressure opposed to fluid pressure of operation of said ram piston thereby retracting said ram piston to retracted position on release of fluid pressure of operation on said ram piston, a fluid pressure indexing operating means for rotating said shaft and revolving the tables, said plunger also constituting a valve for admitting fluid pressure from said plunger cylinder to said shaft indexing operating means in coordination with retraction of said ram piston.

2,609,625
THERMOSTATICALLY CONTROLLED ELECTRIC IRON FOR DRY AND STEAM IRONING
Alan Bate, Riverton, Conn., assignor to The Winsted Hardware Manufacturing Company, Winsted, Conn., a corporation of Connecticut
Application February 17, 1948, Serial No. 8,861
8 Claims. (Cl. 38—77)



1. In an electric steam iron, a sole plate having ports extending through it from its upper side to its under side, a boiler on the upper side of said sole plate and conforming generally to the contours of said upper side, an electrical heating element on top of said boiler, thermostatically controlled switch means supported on said sole plate above the mid portion thereof and directly responsive to the temperature of said sole plate, said boiler and said heating element having aligned opening through their mid portions accommodating said switch means, said switch means connected in and controlling the circuit of said heating element, said boiler having a passage therethrough including an end for receiving water under pressure and a discharge end communicating with said ports to supply steam thereto.

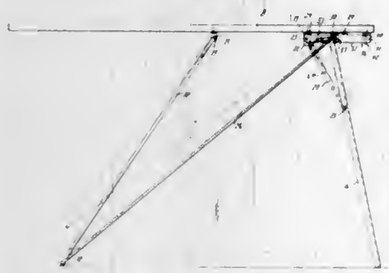
2,609,626
IRONING STAND
John Henry Walter Lewis, Chaldon, near Caterham, England
Application November 4, 1947, Serial No. 783,869
In Great Britain November 7, 1946
3 Claims. (Cl. 38—107)



1. An ironing stand for use with a cordless iron, comprising an ironing top for the work to be ironed, a temporary support for the iron connected with said top, said temporary support including an iron supporting surface disposed so as to form a smooth longitudinal continuation of the working surface of the ironing top at a small downward inclination thereto, an end wall at the lower end of said iron supporting surface, electrical contacts mounted in the region of said end wall for engagement by the complementary contacts of the cordless iron through apertures in said end wall below the level of the working sur-

face of the ironing top and side elements spaced from one another at the higher end of the iron supporting surface by a distance greater than the width of the iron and converging toward one another in the direction from the higher to the lower end of said iron supporting surface of the temporary support and adapted to guide an iron into the position for effective engagement of the contacts thereon with the contacts in the region of the end wall of the temporary support upon an extension of a sliding movement of the iron over the surface of the ironing top.

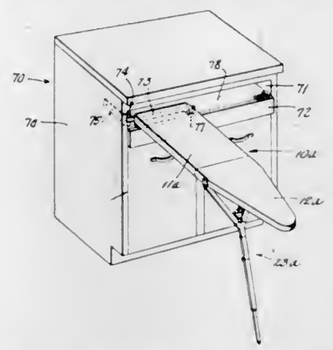
2,609,627
PIVOTED-LEG TABLE WITH ADJUSTABLE HEIGHT PROVISION
George A. Delf, Creve Coeur, and Robert E. Kortum, Robertson, Mo., assignors to Atlas Tool & Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application May 11, 1949, Serial No. 92,722
7 Claims. (Cl. 38—118)



7. In a folding table, a table top member, a longitudinally spaced set of leg units below and having pivotal connection therewith, a U-shaped bail member pivoted at one end beneath and to said top member and swingable through an angle of approximately 180° to be substantially parallel to said top member at the extreme limits of its said angular movement, a link pivotally interconnecting said bail member and one of said leg units, said last-mentioned leg unit comprising a pair of legs with projections adjacent their upper ends, the arms of said bail member provided with slots each engageable by one of said projections and through which the latter extend and slide therealong, means fixed to said top member to engage said projections when the bail member is positioned to lie substantially parallel with said top member, means interconnecting said leg units with said bail member so that actuation of the latter to one extreme of its pivotal swing retracts said leg units together from an erected to a folded relation to said table top member, and actuation of said bail member to the other extreme of said pivotal swing moves said leg units simultaneously to an erected table-supporting position, and a latch fixed to said table top member and releasably engageable with said bail member at said last-mentioned extreme position of the latter to retain the bail member in said position.

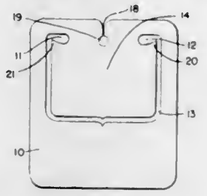
2,609,628
FOLDING IRONING BOARD AND CABINET THEREFOR
John J. Toth, Wilmington, Del.
Application March 18, 1949, Serial No. 82,199
6 Claims. (Cl. 38—129)

1. In an ironing board construction, a cabinet having in it a horizontally extending shelf space; an articulated folding ironing board comprising two flat leaves disposed end-to-end and having upper ironing surfaces; means hingedly connecting said leaves together in a plane below the upper surfaces thereof and at the adjacent ends whereby one leaf is foldable on the other from a horizontal, open, aligned position downward and through a 180 degree arc to a closed, under-



posed position; extendable and collapsible leg means connected to said one leaf for supporting the latter on a floor surface; and means including a hinge bracket, for supporting the other leaf on the said cabinet, said bracket being arranged to enable the leaves when folded together to be swung into the shelf space entirely within the cabinet, for storage.

2,609,629
BADGE
John R. Hubbard, Yellow Springs, Ohio, assignor to Antioch Bookplate Company, Yellow Springs, Ohio, a corporation of Ohio
Application December 5, 1949, Serial No. 131,239
5 Claims. (Cl. 40—1.5)

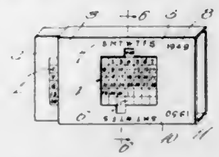


1. A badge comprising a body of sheet material having therein a tab having free edges thereof defined by a pair of upper opposed apertures and a slot joining the apertures, said tab being joined to said body only along an upper line between the said apertures, an edge defining a said slot and an edge defining a said aperture each extending upwardly to an intersection thereof and terminating in an upwardly extended pointed tip.

2,609,630
CALENDAR
Alfred B. Downs, Jr., Columbus, Miss.
Application June 3, 1949, Serial No. 96,986
6 Claims. (Cl. 40—109)

6. A calendar comprising a box like thin walled self-sustaining receptacle carrying a calendar card on the bottom thereof, a thin walled self-sustaining closure for said receptacle slidable in either of two directions over said thin walled box like receptacle, a calendar card cover member carried by said closure with respect to which said calendar card has limited, translatory move-

ment, said calendar card carrying columnar arrangements of month designations and date designations on adjacent portions thereof, with the month designations on one portion of said card appropriate to the date designations for a particular year, while the month designations on the adjacent portion of the card are arranged with respect to said date designations in a manner appropriate for a different year, said cover member having a central aperture extending through one side thereof for the visual display of the date designations carried by said calendar card, and masking and unmasking portions in said cover member contiguous with said central aperture, said unmasking portions being transversely offset with respect thereto for visual display of the month designations carried by said calendar card as said calendar card is moved to



the right or left through said cover member, day of the week designations carried by said cover member in selectively registerable alignment with the columnar date designations carried by said calendar card, the day of the week designations being disposed in horizontal rows adjacent the major edges of the central aperture in said cover member, said rows reading in relative inverted relation and year designations carried by said cover member adjacent the peripheral edges thereof, said year designations reading in inverted relation to each other, said day of the week and year designations being registerable with the calendar card carried by the bottom of said receptacle, the area of the central aperture in said cover member and the size of the masking and unmasking portions being proportioned so as not to impair the structural rigidity of said cover member.

2,609,631
MEANS FOR SECURING LINERS TO FIREARM BARRELS
John C. Garand, Springfield, Mass.
Application May 24, 1948, Serial No. 28,964
2 Claims. (Cl. 42—76)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



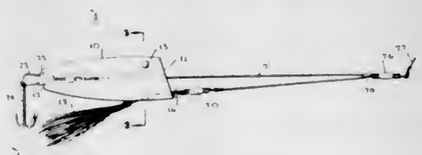
1. In a firearm barrel having a counterbored breech end, a liner comprising a tubular body having an external diameter of sufficient size relative to the internal diameter of the barrel counterbore to form a press-fit therebetween, and a plurality of radially disposed key members projecting outwardly from the exterior periphery of said liner and extending longitudinally from the rear to the front end thereof, said key members being of triangular configuration terminating in an outer knife-like cutting edge embeddable in the wall of the barrel counterbore during the act of forcing said liner therein whereby said liner is immovably secured in the barrel against rotational and longitudinal displacement.

2,609,632
TACKLE RETRIEVER
Hugh Davis, Windsor, Ontario, Canada
Application July 19, 1950, Serial No. 174,599
In Canada April 27, 1950
2 Claims. (Cl. 43—17.2)



1. A tackle retrieving device comprising an elongated weighted body having a tapered lower end which terminates in a rounded point, a hole through the upper end of the said body for attaching a cord thereto, two spirally bent loops of wire mounted on the front of the said body one at each end thereof, and a pair of opposite but similarly bent wire arms one attached to each side of the said body at the lower end thereof in such a manner as to extend downwardly therefrom, said wire arms being symmetrically disposed on each side of the said rounded point and being formed with loops at their free ends which terminate in upwardly and inwardly directed extensions.

2,609,633
PLUG-TYPE FISH LURE
Lloyd A. Cracker, Muscatine, Iowa
Application March 20, 1951, Serial No. 216,591
3 Claims. (Cl. 43—42.05)



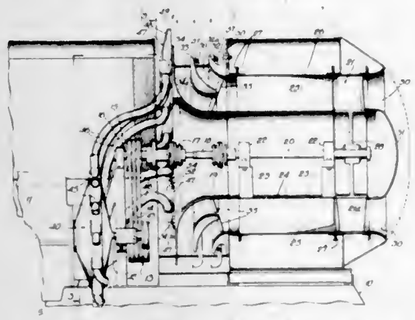
1. A fish lure assembly comprising an elongated plug of rounded cross-sectional shape having a front end and a rear end and a bore extending longitudinally therethrough from one end to the other, a first swivel connector connected at one end to said plug at the front end of the latter, a leader connected at one end to the other end of said first swivel connector and extending through the bore of said plug, a second swivel connector connected at one end to the other end of said leader, a safety catch connected to the other end of said second swivel connector, a hook connected to said second swivel connector by said safety catch, and a third swivel connector adapted to be connected at one end to a fishing line and having its other end an eye slidably receiving said leader between said first swivel connector and the end of said bore at said front end of the plug.

2,609,634
BOBBER
Kenneth C. Simpson, Pasadena, Calif.
Application June 23, 1950, Serial No. 169,907
7 Claims. (Cl. 43—44.88)



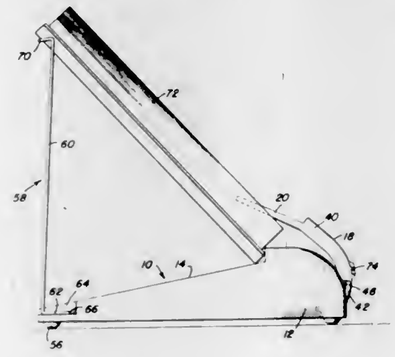
1. A fishing bobber having upper and lower parts, each part having a straight line guide means for freely receiving the fishing line, said parts being relatively movable to aline said two guide means along a straight line or to relatively angle said two guide means, the two parts being shaped to clamp the line therebetween when in relatively angled position, and to release the line for free relative movement of the float and line when the two parts are in alined position, means on one of said parts engageable with the other part to exert a yielding restraint against relative movement therebetween, said parts being operable to move from said alined position to said angled position upon jerking the line from above when the bobber is floating, and being operable to move from said angled position to said alined position upon exertion of a predetermined tension in the line exerted from points above and below the bobber.

2,609,635
SPRAYING AND DUSTING MACHINE
George W. Daugherty, Orlando, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 12, 1946, Serial No. 696,529
11 Claims. (Cl. 43—148)



1. In a machine of the class described, a tunnel, an air propeller, means mounting said propeller for rotation in an axis longitudinal and substantially central of said tunnel for developing a flow of air longitudinally through said tunnel, a ring deflector having a curved surface positioned at the end of said tunnel for directing the air substantially radially of said tunnel toward foliage, a dust containing hopper, a series of pipes terminating at the periphery of said ring deflector on that side of the said ring deflector away from the side thereof against which the blast of air is directed, and means for feeding dusting material from said hopper through said pipes.

2,609,636
BOOK HOLDER
Mary Jeanne Stone, Worthington, Minn.
Application September 13, 1948, Serial No. 48,973
4 Claims. (Cl. 45—57)

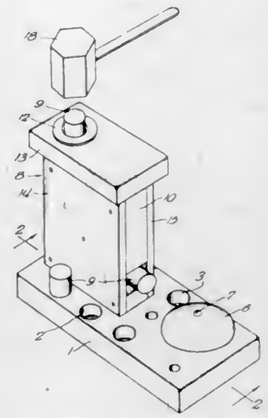


1. A book holder comprising a base, a substantially U-shaped frame including a pair of spaced end portions and a web joining said end portions, the end portions of said frame terminating in L-shaped inwardly extending projections, the free extremities of said L-shaped projections being pivoted to said base and the remaining portions of said projections forming bearing elements engaging said base for supporting said frame in a substantially vertical position, said base having a recess, an elongated clamping plate having one end mounted in said recess, means pivotally securing said one end of said clamping plate to said base, means normally urging said clamping plate into said recess, and a channel member integrally formed with said one end of said clamping plate disposed transversely of said clamping plate for receiving the web of said U-shaped frame.

2,609,637
POUNDING TOY
John W. Spence, Hubbard, Oreg.
Application May 22, 1950, Serial No. 163,445
1 Claim. (Cl. 46—1)

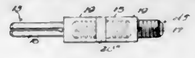
A toy of the character described comprising in combination an elongated base, a target secured to one end of the base, a vertically disposed magazine secured to the base near its opposite end, said magazine comprising a vertical block having formed therein a downwardly and outwardly extending bore, the bottom end of the bore being in fixed alignment with said target, a plurality of pellets adapted for placement within said bore in end-to-end relationship and so arranged that the uppermost pellet will extend upwardly from the top end of the bore and the lowermost pellet will extend outwardly and forwardly from the bottom end of the bore, whereby a hammer blow on the uppermost pellet within the bore will discharge the lowermost pellet from the bore and

project it direct to the target, and a leaf spring disposed on the interior of said bore near its



bottom end for bearing against and temporarily holding the lowermost pellet within the bore.

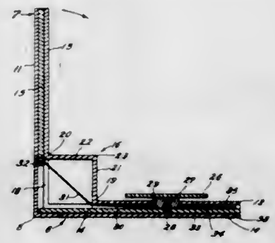
2,609,638
CONSTRUCTION TOY CONNECTOR
Ray S. Lindenmeyer, Evanston, Ill.
Application May 22, 1946, Serial No. 671,532
5 Claims. (Cl. 46—29)



1. A construction toy set having structural elements adapted for selective connection in multifarious combination, including rod-like structural elements formed with internally threaded cylindrical end sockets of like diameter, and compound connecting means for joining said elements, said connecting means comprising a pair of parts, formed for screw threaded interconnection and including a main connector part having a cylindrical body portion of external diameter equal to that of the said rod-like elements, said body portion having a coaxial socket opening at one end thereof, and an integral coaxial stem, on and extending outwardly of the other end of said body portion, said coaxial socket being formed with internal screw threads identical in pitch, diameter and sectional profile to the threads of said end sockets, said compound connector including also a cooperating connector part having a medial cylindrical portion of external diameter equal to that of said body portion, and integral axially alined stem portions on and extending outwardly of the opposite ends of said medial portion, at least one of said stem portions comprising a threaded stud formed for snug threaded engagement within said end sockets or within said coaxial socket, the other of said stem portions and said integral coaxial stem forming mounting stems sized to snugly fit into the mounting sockets of said structural elements, at least one of said mounting stems being longitudinally split, at and inwardly of its end, for snug, frictional, and radially resilient interfitment in a said mounting socket of a structural element.

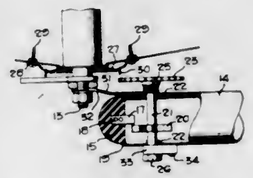
2,609,639
GREETING CARD OR FOLDER
Alvin Barker, Cincinnati, Ohio
Application November 29, 1950, Serial No. 198,201
5 Claims. (Cl. 46—34)

1. A greeting card comprising two sections having their adjacent edges secured together by a hinge portion and foldable thereon into overlapping relation, a movable element pivotally mounted on one section for rotation on an axis normal to the plane of said section, a contractile means secured to the outer portion of said sec-



tion, an actuating cord having an intermediate portion secured to a part of the element beyond the pivot and one end fixed to the contractile means, and means for anchoring the free end of the cord to a part of the remaining section at a point removed from the hinge.

2,609,640
MUFFLER-TYPE TOY
Strohm Newell, Los Angeles, and Lew Fay, Burbank, Calif.
Application December 1, 1949, Serial No. 130,378
2 Claims. (Cl. 46—175)

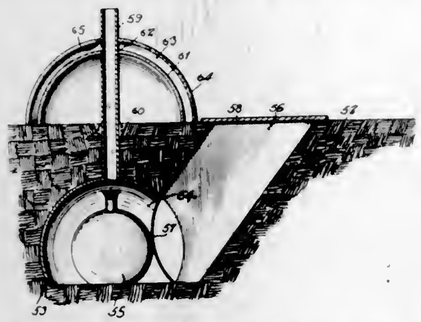


1. A device of the class described comprising a tube, a rubber closure for one end of the tube, a reed anchored on said closure and projecting therefrom into the tube, a spindle rotatably mounted on the tube, a star wheel on the spindle engageable with the reed, a pinion on the spindle on the exterior of the tube and a gear applicable to a wheel of a child's vehicle for meshing engagement with the pinion enabling the star wheel to be driven thereby, said spindle being axially adjustable, spring means urging the spindle into that position wherein the pinion will engage the gear, and means for latching the spindle in a position wherein the pinion and gear are mutually disengaged.

2,609,641
TORCH FOR HEATING WATERMELON HILLS
Andrew Hallum, Lanesboro, Minn.
Application January 23, 1947, Serial No. 723,775
1 Claim. (Cl. 47—19)

A device of the character described comprising an orbicular housing adapted to be embedded in the ground in close proximity to seeds planted therein, heating means within the housing and said heating means adapted to heat said housing so that the heat expelled by said housing will heat the ground in which the housing is embedded to prematurely start the germination of the seeds, said housing having a circular shaped opening therein for access to said heating means, a vent pipe formed integral with the housing centrally thereof and communicating with the

housing, and extending upwardly from the housing outwardly of the ground, an inner semispherical shaped glass cover placed over the seeds on the ground and having an opening therein for the passage therethrough of said vent pipe, an outer semispherical shaped glass cover placed over said first cover and spaced therefrom to provide an



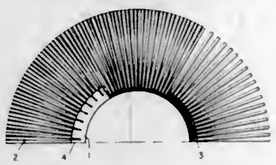
insulated space between said covers, and said outer cover having an opening therein in line with the opening in the inner cover to permit the passage therethrough of said vent pipe and said covers holding the heat above the ground surface above the seeds and permitting rays of the sun to strike the ground above the seeds.

2,609,642

BRUSH AND BRUSH MATERIAL

Ruben O. Peterson, University Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application July 14, 1947, Serial No. 760,847
12 Claims. (Cl. 51—190)



1. As a new article of manufacture, brushing material of the character described comprising a flexible strand formed of twisted fabric sheet material having abrasive particles adhered thereto, said fabric sheet material being twisted to bring such adhered abrasive particles substantially entirely internally of said strand, and projecting into the interstitial openings thereof.

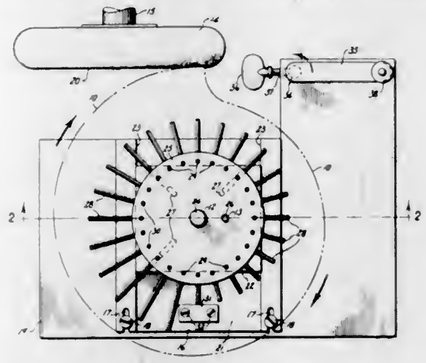
2,609,643

CAM GRINDING AND MARKING FIXTURE

Ray E. Shetler, Chula Vista, Calif., assignor to Rohr Aircraft Corporation, Chula Vista, Calif., a corporation of California

Application August 17, 1951, Serial No. 242,263
8 Claims. (Cl. 51—232)

1. A fixture adapted to rotatably support a workpiece comprising: a fixed support; a slide in engagement with said support; means for guiding said slide in a straight path; a rotatable member supported for rotation about a vertical axis by said slide, said rotatable member being adapted to receive the workpiece; a plurality of spaced apart pins projecting by different amounts from said rotatable member at spaced apart points around its periphery; a rigid member positioned for engagement by the ends of said pins in succession as said rotatable member is manually rotated; and means for preventing the workpiece



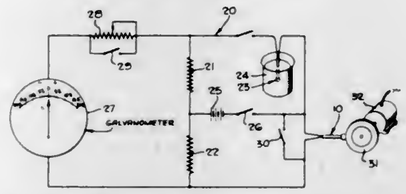
from rotating with reference to said rotatable member.

2,609,644

METHOD OF PROCESSING ELECTRICAL ELEMENTS

Norman M. Brown, Jr., Los Angeles, and Clifford A. Shank, Redondo Beach, Calif., assignors to The Garrett Corporation, Los Angeles, Calif., a corporation of California

Application September 10, 1949, Serial No. 114,936
7 Claims. (Cl. 51—281)



1. A method for the calibration processing of a first electrical element to electrical equality with a standard reference second electrical element, said first element having a critical upper temperature, said method comprising: connecting said first and second elements in an electrical circuit comparison means having indication means so arranged as to give a first indication when said first element approaches its critical temperature during the processing and to give a second indication when the processing is complete; and changing the mass of said first element without exceeding said first indication by said indication means until said second indication is given.

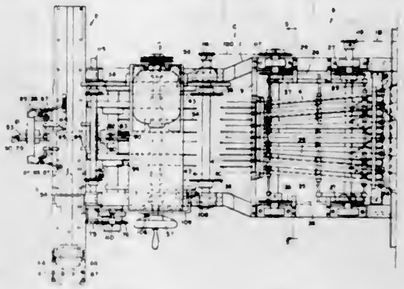
2,609,645

MACHINE FOR PACKING BUNS AND THE LIKE IN CARTONS

Clement F. Johnsen, Santa Monica, Calif., and Clement C. Johnsen, Phoenix, Ariz.; said Clement F. Johnsen assignor to Roy C. Johnsen, Phoenix, Ariz.

Application December 18, 1947, Serial No. 792,568
30 Claims. (Cl. 53—41)

1. In a machine for packing buns and the like into cartons, the combination of a longitudinally extending base, successively arranged feeding, collecting and carriage devices on said base operative to transport buns and the like placed in said feeding device at one end of said base toward the other end of said base, a carton feeding and unfolding device at such other end of said base operative to position and unfold cartons adjacent said carriage device and therebelow for receiving buns and the like dropped from said carriage device, and means for actuating all of said devices, said carriage device comprising a plurality of opposed plates adapted to yieldably clamp buns and the like therebetween, means separating said plates when the buns clamped therebetween are



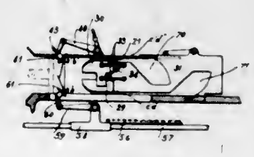
disposed above an unfolded carton therebelow, normally engaged clutch means between said carton feeding and unfolding device and the means for actuating the same, and clutch disengaging means associated with said carriage device operative when said plates are urged together without buns and the like therebetween to render said carton feeding and unfolding device inoperative.

2,609,646

MACHINE FOR MAKING UP PARCELS AND PACKAGES

Henri Total, Paris, France, assignor to Machines Automatiques Bardet (Societe Anonyme), Paris, France, a company of France

Application May 10, 1949, Serial No. 92,479
In France August 10, 1948
5 Claims. (Cl. 53—131)



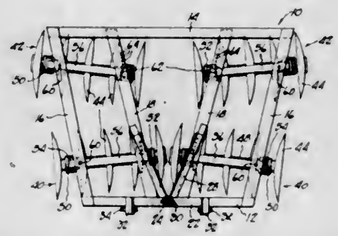
4. A machine for wrapping packages comprising a carrier for the package to be wrapped, means for holding vertically a sheet of wrapping paper in front of said carrier, means for urging the carrier with the package against the sheet of paper for urging same into U-formation over the front, upper and lower sides of the package, a die member inside which the package and associated sheet of paper are shifted, and including two horizontal tables defining vertically the passage afforded for the package and two vertical edge-plates to either side of the location of the package between said horizontal tables, double guiding members superposed at the input end of each edge plate including a lower part rigid with the corresponding edge plate and lying with a certain clearance above the lower table and an upper part, a pivoting link connecting said upper part to said edge plate, a stop limiting the path travelled vertically by said upper part to constrain it to leave a clearance between it and the upper table and means for forming the subsequent folds of the paper over the package inside said die.

2,609,647

TRACTOR MOUNTED DISK HARROW

Jabez A. Love, Silver Creek Township, Cass County, Mich.

Application September 22, 1947, Serial No. 775,540
3 Claims. (Cl. 55—83)



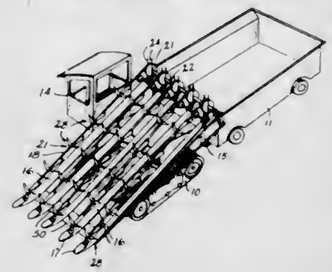
1. A disc harrow comprising a rigid horizontal main frame including front and rear frame members and opposite side and intermediate members secured to said front and rear members and having apertures therein arranged in a plurality of sets extending at different angles transversely of the frame, a plurality of disc gangs each including an elongated rigid sub-frame projecting above and journaling a disc blade shaft, means cooperating with selected sets of frame apertures for securing said sub-frames to and in engagement with the side and intermediate members of said main frame spaced above said shaft and in selected working position, a superstructure carried by the front central portion of said main frame, and at least three spaced connector elements, at least one connector element being carried by said superstructure, and means for holding said sub-frame in selected upright position with said shafts positioned substantially directly below the members securing said sub-frame to said main frame, said last named means including a part carried by one frame and engaging the other frame at a point spaced from a securing means.

2,609,648

CANE HARVESTER

Ralph L. Larson, Honolulu, Territory of Hawaii

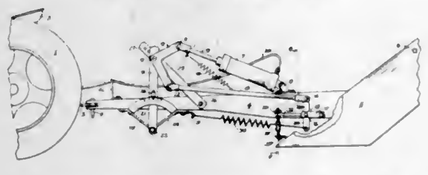
Application November 21, 1950, Serial No. 196,891
3 Claims. (Cl. 55—108)



1. A cane harvester adapted to be moved under traction power over a definite course in removing or cutting cane from the ground and in delivering such cane to a trailer when following such course, said harvester including a cane-picking and conveyor unit comprising a frame characterized by the fact that it includes a plurality of

cane-pulling unit guides, a plurality of sprocket chains, the lower reaches and upper reaches of which are adapted to pass downwardly through and upwardly above said guides, a plurality of collapsible cane-pulling units carried by each of said chains, means for effecting a collapsed condition of each of said units in preparing them for travel in said guide when moving in unison with the lower reaches of their associated chains, said cane-pulling units when collapsed being adapted to pass through said guides and to be thereafter thrust under the action of their associated chains into fouling engagement with the cane to be harvested whereby such units incident to reversal of movement thereof in proceeding upwardly in unison with the upper reaches of their associated chains are caused to withdraw from the ground such cane as is in fouled engagement therewith and deliver that cane to said trailer from the delivery end of said cane-picking and conveyor unit.

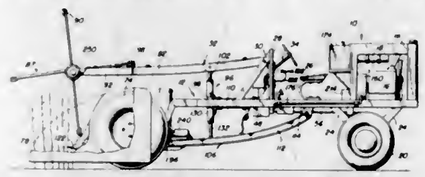
2,609,649
HYDRAULIC ADJUSTING MECHANISM FOR HARVESTING MACHINES
Carlos H. Watson, Richland, Iowa
Application August 15, 1949, Serial No. 110,436
3 Claims. (Cl. 56—15)



1. A hydraulic operating mechanism for the grain harvesting assembly of a tractor-drawn farm implement comprising, a main draw bar on said implement connected to said tractor, a vertically movable harvesting assembly pivoted to said draw bar on a horizontal axis, a fluid power device mounted on said draw bar, power transmission means linking said fluid power device and said harvesting assembly, said assembly including a bell crank pivoted to said fluid power device and a three-way lever pivoted to one end of said bell crank and mounted transversely of said draw bar, a shiftable fulcrum member having a ratchet means for presetting its position relative to said draw bar in said power transmission means for varying the range of vertical movement of said harvesting assembly, and tension spring means associated with said draw bar and said harvesting assembly arranged to assist said fluid power device in operating said assembly.

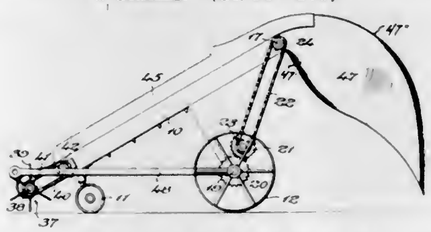
2,609,650
SWATHER
August T. Lindquist, Lancaster, Minn., assignor of one-fourth to Rudolph Nelson, one-fourth to Samuel Elfstrom, and one-fourth to Joseph Leskiw, all of Lancaster, Minn.
Application August 4, 1948, Serial No. 42,358
4 Claims. (Cl. 56—23)

1. A swather comprising a chassis having wheels and an engine mounted thereon, a frame pivotally attached to and disposed beneath said chassis and a flora cutting apparatus mounted on said frame, an upstanding support secured to said chassis and a beam pivotally secured to said support and disposed above said chassis, a reel mounted for rotation on said beam, a pump actuated by the prime mover, a fluid motor for actuating said reel, a conduit connecting said pump and said motor, a valve in said conduit, means connected with said pump for actuating said cutting apparatus including a fluid motor, pipes ex-



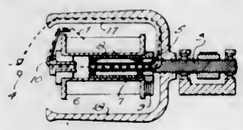
tending from said fluid motor, a flow reversing valve secured to said last-mentioned fluid motor, and a conduit connecting said pump and said flow reversing valve.

2,609,651
MACHINE FOR GATHERING, TURNING, AND WINDROWING HAY OR THE LIKE
Hermann Karl Cymara, Willseyville, N. Y.
Application January 10, 1949, Serial No. 70,047
2 Claims. (Cl. 56—370)



1. A chute for use with a raking and elevating device including a rotary rake and an endless elevating conveyor extending from a point adjacent said rake to an elevated position; said chute comprising a top hood portion and a material supporting and guiding portion, said material supporting and guiding portion extending away from and downwardly from said top hood portion to a point substantially horizontally alined with said rake, said supporting and guiding portion having adjacent said top portion a bottom and a side, said bottom being gradually diminished in width and said side gradually extended over the bottom to a point where the remaining chute constitutes a substantially vertically extending portion of the top only, whereby material sliding down said chute is gradually turned and delivered at the lower end thereof in an inverted condition.

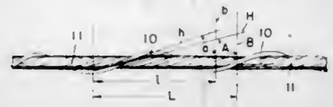
2,609,652
DOUBLE-TWIST SPINDLE
Pierre de Halleux, Brussels, Belgium, assignor to Union des Fabriques Belges de Textiles Artificiels "Fabelta," Societe Anonyme, Brussels, Belgium, a company
Application October 19, 1949, Serial No. 122,265
In Belgium October 26, 1948
3 Claims. (Cl. 57—58)



1. A device for limiting the size of the balloon of yarn in double-twist spindles comprising, in combination, a substantially cup-shaped body member fixedly connected at one end thereof to the spindle so as to rotate therewith and

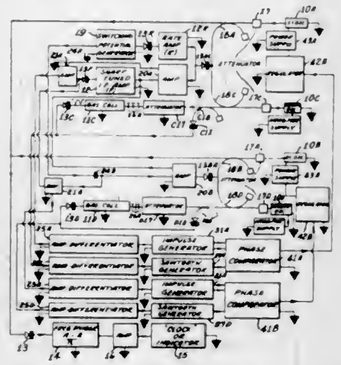
terminating at the other end thereof adjacent to a yarn guide, said body member having a curved inner surface formed and extending at least partially about the axis of rotation of the spindle and the yarn, as it passes from the spindle to the yarn guide, bearing against said inner surface.

2,609,653
HELICALLY PREFORMED ELEMENTS ON STRANDED LINE
Thomas F. Peterson, Shaker Heights, Ohio, assignor to Preformed Line Products Company, Cleveland, Ohio, a corporation of Ohio
Application April 27, 1948, Serial No. 23,579
2 Claims. (Cl. 57—145)



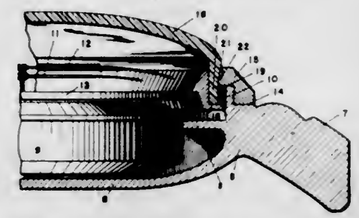
1. In combination with a stranded line, a reinforcing and connecting device comprising a helically-preformed element having helical convolutions for disposition around said stranded line, said convolutions being of the same hand as the strands in said line and being of substantially constant pitch length throughout said element, said pitch length being slightly less than the pitch length of the strands comprising said line when said element is initially positioned thereon, said element being preformed to an internal diameter that is less than the over-all diameter of said stranded line and being elastically expanded to accommodate the latter, said element having a sufficiently open pitch for introduction to the line from its side without exceeding the elastic limit of the material of which said element is made.

2,609,654
METHOD OF AND SYSTEM FOR OBTAINING A STANDARD LOW FREQUENCY
William D. Hershberger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 7, 1948, Serial No. 6,975
11 Claims. (Cl. 58—24)



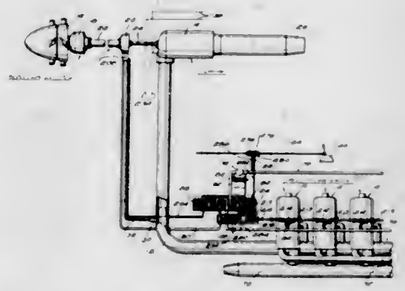
1. A system for producing a precise low frequency suited for indication of time which comprises at least two microwave oscillators, gas cell means containing gas exhibiting molecular resonance at microwave frequencies coupled to said oscillators for stabilizing said oscillators at different frequencies, and frequency-dividing means coupled to said oscillators whose input frequency bears a fixed numerical relation to said oscillator frequencies and whose output frequency is said precise low frequency.

2,609,655
WATERPROOF WATCHCASE
Henri Edmond Vermot, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application January 6, 1950, Serial No. 137,122
1 Claim. (Cl. 58—90)



A sealed watchcase construction comprising a one piece case formed with an annular movement supporting flange and an annular upstanding rim, a crystal, a downwardly depending flange formed on said crystal, said flange having an annular shoulder, a rubber sealing ring carried exteriorly of said crystal flange and below said shoulder, said crystal and ring being fitted inwardly of said upstanding rim, the diameters of said crystal and said rim being such as to compress the rubber sealing ring between the two, a reflector ring bearing against the inside of said crystal flange and underlying said flange and said rubber sealing ring and a bezel fitting around the outside of said annular case rim, part of said bezel overlying said rim and said sealing ring and bearing against the inner side of said crystal flange, a shoulder being formed on said bezel for interfitting with the shoulder of said crystal flange, the diameter of said bezel being such as to slightly force the annular case rim inwardly.

2,609,656
GAS TURBINE POWER PLANT HAVING FUEL CUT-OFF VALVE ACTUATED BY AN OVER-SPEED GOVERNOR
David M. Poole, Oak Ridge, Tenn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Original application April 15, 1944, Serial No. 531,310. Divided and this application June 17, 1948, Serial No. 33,486
1 Claim. (Cl. 60—13)



A power plant including a turbine, a propeller driven by the turbine, a free-piston type of engine unit providing combustion-supporting gas for the turbine, and a combustion chamber between

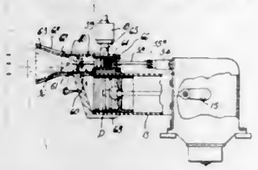
the engine unit and the turbine, in combination with fuel supply means for the free-piston unit and for the combustion chamber, an injection device for the unit, a fuel nozzle in the combustion chamber, a fluid connection from said supply means to said injection device and to said nozzle, means for adjusting the quantity of fuel delivered to said device from said supply, other means for adjusting the quantity of fuel delivered to said nozzle from said supply, a valve in said fluid connection independent of both of said adjusting means, electrical means associated with said valve for holding said valve in open position, a circuit including said electrical means, and an overspeed governor driven by the turbine and arranged upon overspeeding of the turbine to control the circuit to cause the valve to close.

2,609,657

EXHAUST PROPULSION ENGINE, INCLUDING MEANS FOR IGNITING THE FUEL WITHIN EXHAUST CHAMBERS EXTERIORLY OF THE CYLINDERS

Harold G. Myhr, Pacific Grove, Calif.

Application February 27, 1950, Serial No. 146,413
6 Claims. (Cl. 60—35.6)



6. In combination with a vehicle, an exhaust propulsion engine, said engine comprising a plurality of primary cylinders, a primary piston in each cylinder, means for actuating the piston of each cylinder, an intake casing for each cylinder, each intake casing having a discharge port communicating with the interior of a companion cylinder for supplying a fuel-air mixture to the cylinder, valve means for opening and closing each port at timed intervals relative to the movement of each piston, an exhaust funnel for each cylinder, each funnel having a flared outer end, a hollow sleeve carried by and communicating with each companion cylinder, a second balancing piston slidable in each sleeve, an exhaust valve connected to each balancing piston, each funnel having an exhaust port, the exhaust valves adapted to open and close said exhaust ports, means for actuating said exhaust ports in timed relation to the movement of said primary pistons to control the discharge of exhaust through said funnels, a spark plug for each exhaust funnel located outwardly of each exhaust port, and means for actuating said spark plugs in timed relation to the opening of said exhaust valves.

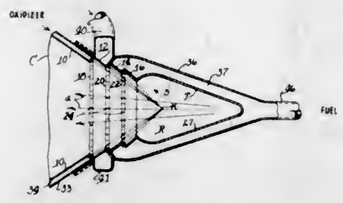
2,609,658

TARGET TYPE COMBUSTION CHAMBER HAVING A CLOSED END PORTION RECEIVING CONICAL FUEL AND OXIDIZER SPRAYS

Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York

Application May 11, 1946, Serial No. 669,055
3 Claims. (Cl. 60—35.6)

1. Combustion apparatus comprising a combustion chamber having a discharge nozzle at one end and having a closed axial extension providing a target recess at the other end, and a plurality of conical spray plates positioned at the end of said combustion chamber adjacent said recess



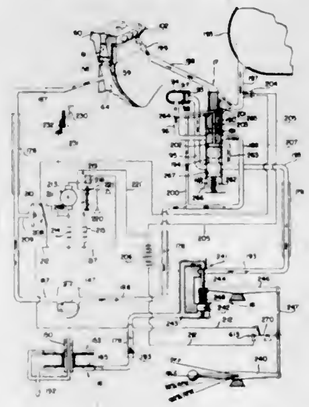
and through which plates converging concentric conical sprays of two different combustion liquids are directed toward the closed outer end of said target recess.

2,609,659

STARTING SYSTEM FOR INTERNAL-COMBUSTION TURBINE POWER PLANTS

Nathan C. Price, St. Helena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Original application June 2, 1945, Serial No. 597,308. Divided and this application March 24, 1948, Serial No. 16,856
16 Claims. (Cl. 60—39.14)



1. In an internal combustion gas turbine, an expansion zone, a combustion chamber for supplying gases of combustion to the expansion zone, a compressor casing, a rotor, turbine blading on the rotor operating in the expansion zone, compressor blading on the rotor operating in said casing, a counter-rotating ring having diffuser blading in surrounding relation to said compressor blading, means for conducting the compressed air from the diffuser blading to the combustion chamber, buckets on the ring positioned to be acted upon by the gases of combustion entering the expansion zone to rotate the ring, and starting means including a nozzle for spouting fluid under pressure against said buckets.

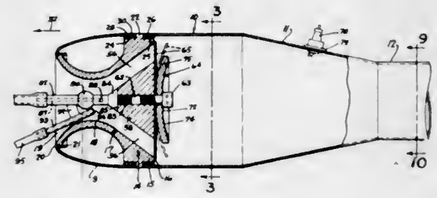
16. In an internal combustion turbine power plane, turbine means, compressor means operated by the turbine means, a combustion chamber interposed between the compressor means and the turbine means, and means for starting the power plant comprising a starting combustion chamber for supplying combustion gases under pressure to the turbine means, a glow plug in the last named chamber, and means responsive to pressures developed by the compressor means for controlling the glow plug.

2,609,660

RESONATING PULSE JET ENGINE

William L. Tenney, Crystal Bay, Minn., and Charles B. Marks, Las Vegas, Nev.; said Marks assignor to said Tenney

Application February 25, 1946, Serial No. 649,882
12 Claims. (Cl. 60—39.14)



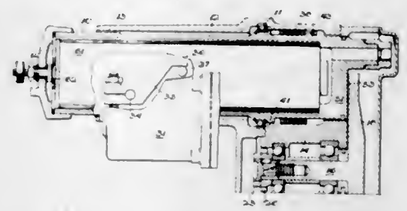
1. In a resonant pulse jet apparatus, an inlet port and valve unit adapted to be secured at one end of a combustion chamber, said unit comprising means forming a passage having an air inlet opening, said passage having a tapering cross section defining a Venturi throat passage and then being branched into a plurality of annularly arranged openings terminating in ports on the face of said unit, valve means including a segmental flexible valve member with the segments thereof overlying said port openings, means carried by said unit for supporting said valve means with the segments thereof exposed for flexing to control the flow of fuel and air through said port openings, and means located at said Venturi throat for supplying fuel in metered relation into the inflowing air in said passage for vaporization thereof for combustion with resultant cooling of said unit and valve means.

2,609,661

REGULATION OF ALIGNMENT OF FLUID SUPPLY WITH RESPECT TO GAS TURBINE BLADES IN ACCORDANCE WITH TURBINE SPEED

Romeo M. Nardone, Teaneck, N. J., assignor to Joseph J. Mascuch, Maplewood, N. J.

Application February 20, 1951, Serial No. 211,854
4 Claims. (Cl. 60—39.25)



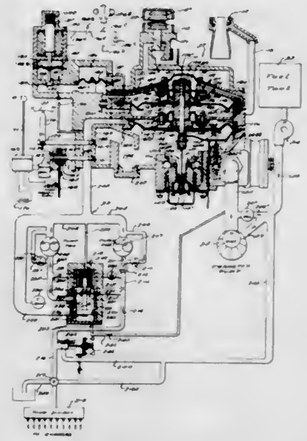
1. In a driving mechanism, a turbine wheel having a series of buckets disposed in a circle whose center is on the axis of rotation of said wheel, a housing surrounding said wheel, a fluid pressure generator in the form of a cylinder whose axis is parallel to said wheel axis, said cylinder terminating in an end wall disposed adjacent to said wheel, and parallel thereto, a fluid discharge nozzle mounted in said end wall, with its discharge end normally in alignment with said bucket circle, and speed-responsive means for turning said cylinder about its axis, and thereby shifting said discharge nozzle away from said position of alignment.

2,609,662

CONTROLLED DASHPOT FOR FUEL METERING DEVICES

Paul R. Vogt, Grosse Pointe, and Paul T. Nims, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application July 25, 1947, Serial No. 763,576
21 Claims. (Cl. 60—39.28)



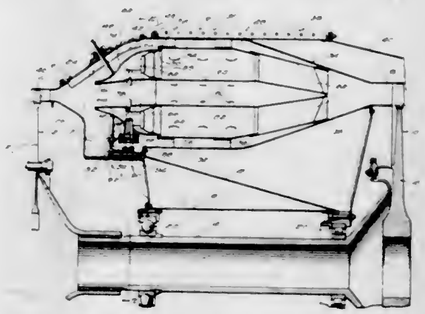
16. In a power plant comprising a burner, means forming a path for the flow of air to the burner, means forming a path for the flow of fuel to the burner, and means for regulating fuel flow to maintain a predetermined ratio of fuel-flow rate to air-flow rate; the combination therewith, of means for delaying responsiveness of the regulating means to produce stabe operation of the power plant by minimizing the effect on the fuel-flow rate of changes in the air-flow rate of short duration, and means for modifying the action of the delaying means to make the regulating means immediately responsive to a large change in air-flow rate.

2,609,663

ROTATABLE COMBUSTION APPARATUS FOR ALIGNING INDIVIDUAL FLAME TUBES WITH ACCESS PARTS OR MANHOLES

Philip P. Newcomb, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

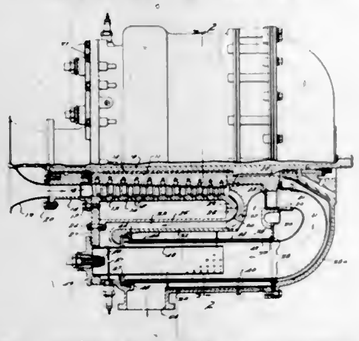
Application July 21, 1951, Serial No. 237,964
12 Claims. (Cl. 60—39.31)



1. In a gas turbine power plant, a compressor, a turbine, an annular duct from the compressor discharge to the turbine inlet, said duct having an outer wall with an opening therein,

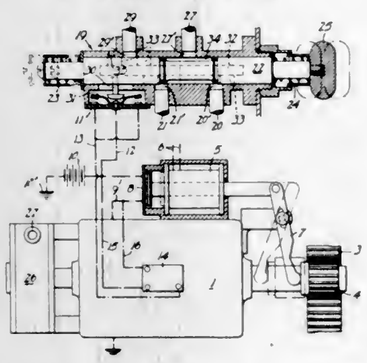
and a number of flame tubes positioned in said duct in parallel relation to eath other, in combination with a removable cover for the opening in said outer wall, and means for supporting said flame tubes for rotation as a unit within said duct to position any one of the tubes in alignment with the opening.

2,609,664
PLURAL COMBUSTION PRODUCTS GENERATOR IN RING COAXIAL WITH TURBINE
Allen C. Staley, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 12, 1946, Serial No. 715,841
11 Claims. (Cl. 60—39.37)



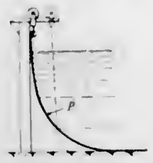
3. The combination with a compressor and a turbine driving the same; of a plurality of spaced burners adapted to convert fuel and a combustion-supporting medium delivered by the compressor into combustion products for driving the turbine, a plurality of tubes located in the spaces between the burners for separately conducting combustion-supporting medium from the compressor to the turbine, and means for causing gaseous products exhausting from the turbine to pass across the tubes for heating the combustion-supporting medium in the tubes.

2,609,665
ACCESSORY CONTROL SYSTEM
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application January 26, 1949, Serial No. 72,964
3 Claims. (Cl. 60—60)



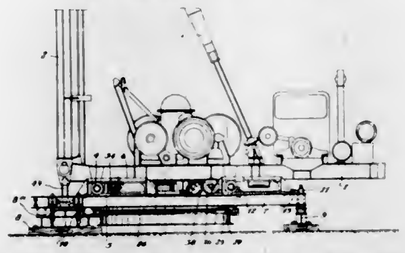
1. A control system for a fluid actuated accessory of a motor vehicle, comprising, in combination with the starting system of the vehicle including the starter motor and its starting circuit, a pump permanently connected to the starter motor to serve as a source of operating pressure for accessory operation, a control switch connected in circuit with the starter motor to the exclusion of the engine starting switch, a valve interposed between the pump and an accessory and operable in one position to connect the two for accessory operation and in another position to arrest the accessory, and means operable by the valve in its second position to vent the pump to the atmosphere.

2,609,666
DAM
Jacques Mesnager, Paris, France
Application June 29, 1948, Serial No. 35,754
In France July 2, 1947
6 Claims. (Cl. 61—30)



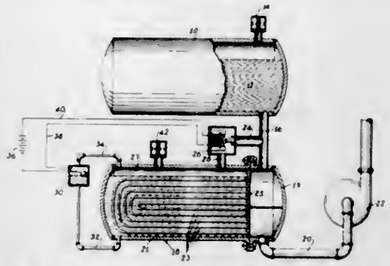
1. A dam, comprising, in combination, a wall made of flexible sheet material and having substantially straight, parallel, and horizontal top and bottom edges extending across a body of water in which the dam is located with said bottom edge of said wall fixed to the bed on which the water is located, and said wall forming part of a cylinder having a horizontal generatrix substantially parallel to said top and bottom edges of said wall; and support means connected to said top edge of said wall to support said top edge for movement while maintaining said top edge parallel to said cylinder generatrix.

2,609,667
MACHINE MOVABLE IN ALL DIRECTIONS FOR DRIVING PILES AND THE LIKE
André Paul Jourdain, Liege, Belgium, assignor to Compagnie Internationale des Pieux Armes Frankignoul, Societe Anonyme, Liege, Belgium
Application March 14, 1951, Serial No. 215,523
In France March 23, 1950
13 Claims. (Cl. 61—73)



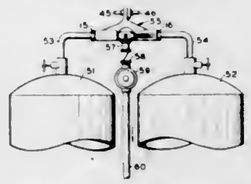
1. A machine capable of being displaced in all directions for driving piles and the like, in which the platform of the machine is secured to one member of a vertical jack, the axis of which passes at least approximately through the centre of gravity of the machine and the other member of which, which is axially movable with respect to the first member, is secured to a supporting plate located under the said platform, the upper face of the said plate being provided with a circular rolling track cooperating with a frame provided with rollers which is connected to the said platform by vertical guide means which prevent relative angular displacement of the said frame and the said platform, while permitting their vertical relative movement, the machine being moreover provided with an enclosure connected for relative longitudinal movement to the said platform and furnished with means for affording support for the machine on the ground when the said supporting plate is cleared from the ground.

2,609,668
METHOD AND APPARATUS FOR PUMPING VOLATILE LIQUIDS
Thomas N. Dalton, Leonia, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application October 23, 1948, Serial No. 56,127
6 Claims. (Cl. 62—1)



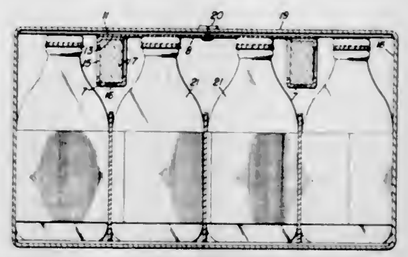
1. An apparatus for pumping volatile liquids comprising, in combination, a storage container for the volatile liquid, a heat exchanger including a heat absorbing side and a cooling side, conduit means connecting said storage container to said cooling side, by-pass means connecting said conduit to said heat absorbing side, means controlling the flow of volatile liquid through said by-pass means adapted to maintain a predetermined level of volatile liquid in said heat absorbing side, vent means in said heat absorbing side adapted to vent said heat absorbing side to maintain the pressure therein at a lower value than the vapor pressure of the volatile liquid in said container, a pump, and further conduit means connecting said cooling side to said pump.

2,609,669
MAGNETIC CHANGE-OVER VALVE
William Robert Eddy, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 18, 1950, Serial No. 201,324
7 Claims. (Cl. 62—1)



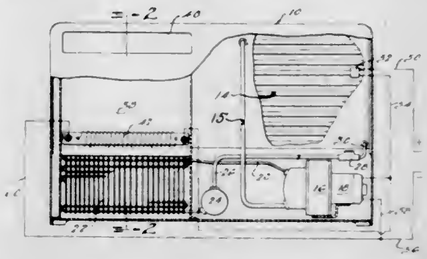
1. In a liquefied gas system, an automatic changeover valve mechanism comprising, in combination, a body member provided with an inlet port for each of two supply sources, a common outlet port, a conduit connecting each of said inlet ports with said common outlet port, each of said inlet ports terminating as a valve seat, a free floating valve sealing member adjacent each valve seat, each valve sealing member being so positioned as to close an inlet port when the force applied to the sealing member in the direction of closure is greater than the force applied in the opposite direction, and a magnet for supplying an increment of force to said valve sealing member to urge said sealing member against its seat in a closed position.

2,609,670
REFRIGERANT ATTACHMENT FOR CARTONS
Gordon D. Wheeler and James H. Reilly, Monte Vista, Colo.
Application September 5, 1950, Serial No. 183,118
2 Claims. (Cl. 62—91.5)



1. A refrigerating attachment for containers comprising an attaching plate, and a perforated chamber integrally formed at an edge portion of the plate and adapted for holding a refrigerant, said chamber having a pair of opposed walls, one of said walls being united with the plate and projecting downwardly therefrom and the other of said walls being united with the first wall at the lower portion of the latter, and said second named wall having an inwardly projecting upper free edge forming a top for the chamber, and a tongue integrally formed with the plate and overlying the top to hold the top of the chamber closed.

2,609,671
AIR FLUE IN REFRIGERATING APPARATUS
Thomas C. Gleason, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 30, 1950, Serial No. 171,451
2 Claims. (Cl. 62—117.4)



1. A refrigerated cabinet for foodstuffs having a heighth which is substantially waist high, said cabinet having a compartment for the reception of foodstuffs to be cooled and a mechanical refrigeration system of the compressor-condenser and evaporator type operable to cool said compartment, said cabinet including means defining a vertically extending stack operable to establish a passage for air and means defining an air inlet to the lower portion of said stack and an air outlet adjacent the top of said stack, an air cooled condenser which forms an operating component of said refrigeration system positioned in the lower portion of said stack and an electric

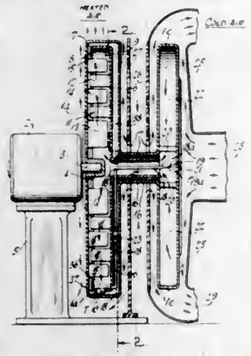
resistance heater positioned in said stack downstream of said condenser to improve the draft in said stack.

2,609,672

UNITIZED CENTRIFUGAL REFRIGERATING MACHINE

Nathaniel B. Wales, New York, N. Y., assignor to Industrial Patent Corporation, New York, N. Y.

Application May 4, 1951, Serial No. 224,531
6 Claims. (Cl. 62—117.5)



3. A centrifugal compression refrigeration machine comprising a symmetrical hermetical shell, a refrigerant in said shell, journal means on which to rotate said shell about its axis of symmetry, motor-actuated means to rotate said shell, said shell internally subdivided into three portions, the first portion containing multi-stage gaseous compression means produced by a series of moving vanes secured to said shell of said first portion and an element supporting an interleaving series of stationary vanes between said series of moving vanes, said element journalled in said second portion and maintained stationary by a pendulous weight positioned in said third portion, the second portion cooperating to form an axial connecting duct between said first portion and said third portion of said shell, stationary liquid refrigerant collecting and duct transfer means in said first portion secured to said stationary element for collecting and conveying the refrigerant liquefied by said gaseous compression means therein through said second portion into said third portion wherein said liquid refrigerant is vaporized and the refrigerant gases therefrom are drawn through said second portion by the suction of said gaseous compression means in said first portion to be again liquefied therein.

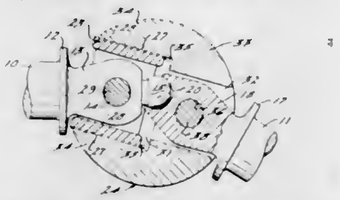
2,609,673

UNIVERSAL JOINT

John P. Butterfield, Grosse Pointe Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application November 27, 1948, Serial No. 62,319
1 Claim. (Cl. 64—21)

A constant velocity, force transmitting, universal joint composed of a pair of shafts each having adjacent terminal portions flattened along opposite sides that extend parallel to the associated shaft axis, one of said shaft terminal portions having an axially extending, ball-shaped formation projecting from the end thereof and the other of said shaft terminal portions having an axially extending, ball-shaped recess formed in the end thereof matingly receiving the ball-shaped formation on the terminal portion of said first mentioned shaft to provide means for the direct transmission of radial loads between said shaft terminal portions, a first coupling member comprising a block element having a pair of spaced, parallel, longitudinally extending flat ends and a longitudinally extending, opening therethrough extending between said flat ends adapted to receive the terminal portion of one of said shafts, pivot pin means pivotally connecting said first coupling member to the terminal portion of the shaft member mounted in the opening in the block arranged to provide for rotation of the block about an axis normal to the associated shaft axis, a second coupling member comprising a jaw element having a first transversely extending opening therethrough forming a pair of spaced tongues with flat, parallel, longitudinally extending inner sides slidably receiving therebetween the



flat ends of said first coupling member in surface to surface engagement, a second longitudinally extending, substantially flat-sided opening through said second coupling member arranged between said tongues and intersecting the first opening through said second coupling member, said second opening in said second coupling member receiving the terminal portion of the other of said shaft members, and pivot pin means pivotally connecting said last-mentioned other shaft member to said second coupling member for rotation about an axis normal to the associated shaft axis, said pivot pins each having an axis at right angles to and intersecting the axis of the shaft to which it is connected and each pin axis spaced equally distant from the point of intersection of the shaft axes, said ball and socket load transmitting connection between the adjacently positioned shaft terminal portions being continuously located interiorly of the slidably engaged coupling members between the slidably engaged surfaces of said block and jaw elements.

2,609,674

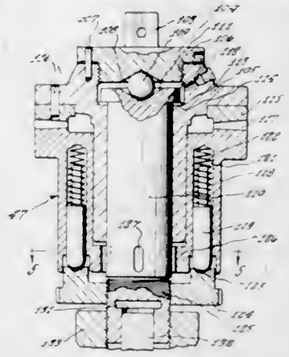
OVERLOAD RELEASE COUPLING FOR ELECTRICALLY DRIVEN EARTH AUGERS

Lucien C. Groat, Canton, Ill.

Application March 14, 1947, Serial No. 734,740
2 Claims. (Cl. 64—29)

1. A self-contained unitary clutch adapted to be connected to the output shaft of an earth auger drive unit to be supported therefrom and to drive and support an earth auger element, which comprises a top plate having means thereon adapted to cooperate with the output shaft of the earth auger drive unit to releasably connect the unitary clutch therewith, a casing part secured to said top plate and having gear teeth thereon, a vertical driven clutch shaft journalled in the said casing part and extending downwardly therefrom, means on the vertical driven shaft cooperating with said casing part to retain said driven shaft against downward displacement therefrom, a second casing part surrounding the first casing part, said second casing part having gear teeth meshing with the gear teeth of the first mentioned casing part, a bottom plate adjustably secured to the lower end of the vertical driven clutch shaft, depressible detent means reacting between the said bottom plate and the second casing part for normally retaining said

second casing part with its teeth in engagement with the teeth of the first mentioned casing part, a spline drive connection between the second cas-



ing part and the vertical driven clutch shaft and means on the lower end of the vertical driven clutch shaft adapted for the connection thereto of an earth auger element.

2,609,675

AUTOMATIC APPARATUS FOR THE MANUFACTURE BY HAND OF ALL KINDS OF KNITTED FABRICS

Josefina Domenech Tarafa, Barcelona, Spain

Application May 6, 1949, Serial No. 91,754
In France February 22, 1949
7 Claims. (Cl. 66—4)



1. Hand operated knitting apparatus comprising a stationary first needle set and a displaceable second needle set adapted for forming a thread receiving gap therebetween by conjointly advancing the needles of said second set between said stationary needles of said first set, a casing hingedly mounted and adapted to be swung backwards to take up a sloping position, a guiding member with a plurality of guiding slots for each needle of said second set of needles, said needles being constituted by a U-shaped wire, lodged in the slots of the guiding member, the front branch of the U needle projecting from the front of the guiding member forming a hook and the end of the rear branch projecting from the top part of said guiding member, said stationary needle set being formed by a series of sheet metal strips, each strip narrowing towards the top and forming a flat body with a channel in the center line of the strip, wider at the base and narrower towards the top, said strips having at the upper ends thereof a head bent on a plane approximately at 90° with respect to the plane of the body, the needles so formed being mounted on a bar forming a needle rake positioned in front of the apparatus in intercalated relationship with the needles of the displaceable set.

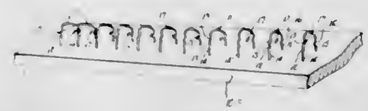
2,609,676

RAG RUG MAKING DEVICE

Joseph Woroneski, Croydon, Pa.

Application July 13, 1950, Serial No. 173,512
3 Claims. (Cl. 66—4)

1. A rag rug knitting frame comprising a base, plurality of transversely extending upstanding members secured to the base in spaced relation to define a row of members extending longitudinally of the base, each member having a front portion having a plurality of vertically spaced notches, each member also having a rear portion having a single notch rearwardly of the notches in the front portion thereof, anchoring pins carried by the base rearwardly of the members and in staggered relation thereto, the notches and pins being adapted to receive a continuous knitting strip in a manner to facilitate the knitting of a rug with a single continuous knitting strip by anchoring the strip to one pin, then passing



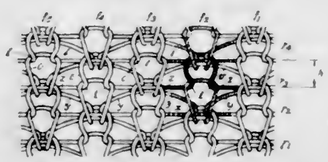
the strip around the bottom front notch of the adjacent member, then around the second pin and then progressively around the bottom notch of the next member and next pin, then returning the strip to engage the top front notch of the last member and finally lifting the portion of the strip which engages the lower front notch over the top of the last member to engage the rear notch, and then continuing with the strip in like manner with respect to each member until the row of knitting is completed, the pins also providing anchoring means for the strip as the strip is being stretched away from the members to knit succeeding rows.

2,609,677

KNITTING

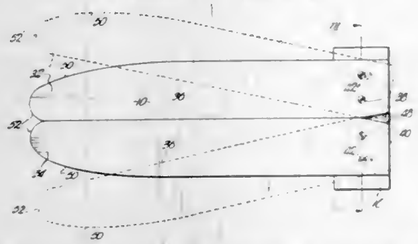
Lucien Picard, Sainte-Savine, France, assignor of three-twelfths to Julien Millard, Troyes, two-twelfths to Louis Carbonnaux, Sainte-Savine, and one-twelfth to Jean Manotte, Sainte-Savine, France

Application September 24, 1946, Serial No. 698,885
In France October 16, 1945
2 Claims. (Cl. 66—169)



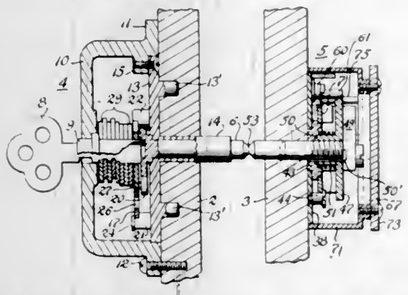
1. Unladderable knitted fabric formed by a single thread constituting unelongated stitches and elongated stitches having substantially the same height as the unelongated stitches and the unelongated stitches occurring alternately with the elongated stitches in each course and in each line so that, from one course to the other, the unelongated stitches and the elongated stitches are in quincunx and that in each course, the elongated stitches are looped by the unelongated stitches of the preceding course, the said elongated stitches being in intertwining relation with the loops of thread connecting the elongated stitches formed in the preceding course and with the rectilinear elements of thread connecting the successive unelongated stitches in the course considered, the said rectilinear elements of the various courses being substantially parallel to each other while the looped parts of the thread comprised between two elongated stitches of two successive courses are disposed diagonally.

2,609,678
SPOTTING BOARD FOR DRY CLEANERS
Frank M. Pilley, Wichita, Kans.
Application June 15, 1950, Serial No. 168,240
1 Claim. (Cl. 68—240)



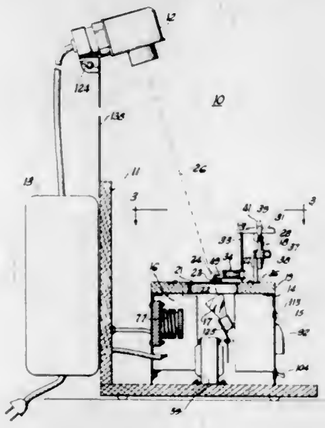
A spotting board comprising a standard; an elongated, flat, horizontal cross-head fixed to said standard, said cross-head having an arcuate slot formed therein adjacent each end thereof respectively; an elongated, horizontal panel on said cross-head having a V-shaped notch formed in one end thereof, said panel being longitudinally split from the apex of said notch to the opposite end of the panel, presenting a pair of side-by-side sections, the sections each being pivotally secured to said cross-head adjacent said notch for swinging movement to and from a position with the proximal longitudinal edges thereof in abutting relationship; and a releasable bolt and nut assembly on each section respectively and extending through the corresponding arcuate slot for limiting the swinging movement of the sections toward and away from each other, said notch being disposed to limit the extent of movement of the sections away from each other.

2,609,679
SAFE LOCK
Frederick J. Bremer, Hamilton, and George J. Bauer, Cincinnati, Ohio, assignors to The Mosler Safe Company, Hamilton, Ohio, a corporation of New York
Application July 22, 1949, Serial No. 106,214
11 Claims. (Cl. 70—1.5)



1. A key lock for a safe door having a closed hollow space between the inner and outer faces thereof, said lock comprising a housing adapted for mounting on the outer face of the door, a key lock in said outer housing, a lock adapted for mounting on the inner face of the door having a bolt adapted for actuation into and out of a lock keeper, a spindle adapted to extend from the interior of the exterior housing through said door into the lock on the inner door face, means providing a driving connection between the inner end portion of said spindle and said bolt, said lock in the outer housing being disposed when unlocked by a key to effect a driving connection between said key inserted into said outer lock and said spindle whereby upon turning the key the inner lock may be opened and closed by the driving connection effected through said outer lock and spindle, said spindle having a reduced area fracture section adapted to be normally located in said hollow space, and means responsive to fracture of said section for disengaging the driving connection between the inner portion of said spindle and said inner lock.

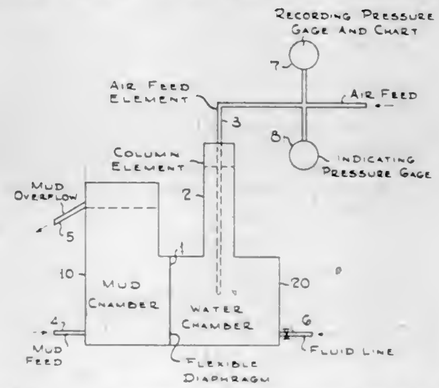
2,609,680
HAIR SPRING AND BALANCE WHEEL TIMING MECHANISM
Forrest Julian Caldwell, Chicago, Ill.
Application January 8, 1948, Serial No. 1,247
2 Claims. (Cl. 73—6)



1. Apparatus for counting the vibrations of a hair spring and the attached balance wheel including a spoke comprising, a pair of expansible jaws for gripping said hair spring, means for expanding said jaws for releasing the grip thereof on said hair spring, an electric eye device including a beam of light, a pivotal support for said jaws, first rack and pinion means for supporting and radially moving said pivotal support, second rack and pinion means for holding and vertically moving said first rack and pinion means, means movable about a circular path substantially centered about said expansible jaws for supporting said second rack and pinion means, said pivotal support, said first and second rack and pinion means, and said circularly moving means cooperating to permit movement of said jaws whereby the spoke of said balance wheel may be made to vibrate through said beam of light, a counter controlled by said electric eye device for counting the number of times said spoke vibrates into said beam of light, and timer means for predetermining the interval of counter operation, said timer means comprising an electric motor and switch means for de-energizing said motor after a certain number of revolutions.

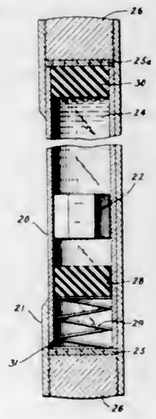
2,609,681
DRILLING MUD WEIGHT RECORDER
Walter J. Bielstein, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application May 13, 1948, Serial No. 26,788
2 Claims. (Cl. 73—32)

1. Improved apparatus for continuously measuring the density of a flowing fluid which comprises a vertically elongated first fluid chamber and a contiguous second fluid chamber of substantially less vertical height than said first chamber, said first and second chambers having a common wall element consisting of a flexible diaphragm, a first vertical tubular element fixed to said second chamber in fluid intercommunication therewith, said first tubular element extending above the said first chamber, a second tubular element of smaller diameter than said



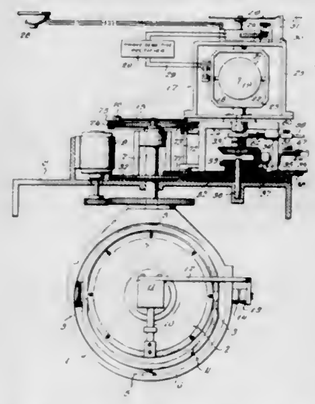
first tubular element and positioned within said first tubular element and extending into said second chamber, means for passing a gas downwardly within said second tubular element into fluid maintained within said second chamber, whereby the said gas flows upwardly in the space between said first and second tubular elements and is released at the top of the said first tubular element, and means for indicating the pressure necessary to force said gas through said fluid as described.

2,609,682
VISCOSITY METER AIR BARRIER
Louis C. Eitzen, New York, N. Y.
Application December 18, 1948, Serial No. 65,993
5 Claims. (Cl. 73—57)



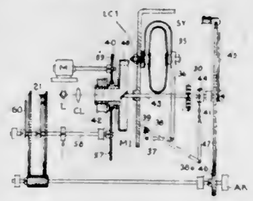
1. In a viscosity meter, a sight tube closed at the upper end thereof; means for mounting the tube; a piston stopper disposed fluid tight in the lower portion of the tube and adapted to slide longitudinally therein; a liquid completely filling the tube between the stopper and the upper end; a movable body in the tube and in the liquid, and a spring compressed between the stopper and said means.

2,609,683
AIR NAVIGATION SYSTEM
Arthur L. Rawlings, Little Neck, and Herbert H. Thompson, Manhasset, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application November 15, 1946, Serial No. 709,898
8 Claims. (Cl. 73—178)



1. In a navigational instrument for use in mobile craft, the combination of a self-orienting north-seeking gyro-compass the azimuth indications of which are affected by a systematic error depending on the speed, latitude and course of the craft and a directional gyro monitored by an instrument for indicating the direction of the horizontal component of the earth's magnetic field, a movable element, a differential device actuated by the azimuth indicating members of the gyro-compass and the directional gyro respectively so as to displace said movable element by an amount proportional to the speed and course error of the gyro-compass, a second movable element capable of being manually set according to a function of the latitude of the craft, a third movable element displaceable by the directional gyro according to a function of the course of the craft, and means for combining the displacements of said three elements so as to displace a fourth element by an amount proportional to the speed of the craft over the ground.

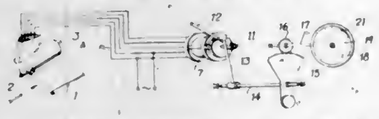
2,609,684
CIRCUIT CONTROLLING ALTIMETER
Oscar S. Field and Sedgwick N. Wight, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Original application July 29, 1944, Serial No. 547,175. Divided and this application November 12, 1947, Serial No. 785,398
6 Claims. (Cl. 73—178)



1. An altimeter device for operating contacts in accordance with altitude comprising, an aneroid barometer including a fixed pointer cooperating with a movable dial having a baro-

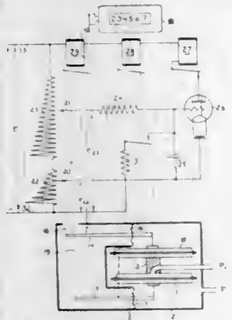
metric scale, manually operable means for moving said dial to a position where the pointer indicates a given barometric pressure, a shaft turned by said barometer to different positions in accordance with the atmospheric pressure then acting on said barometer, a multiple position altitude contactor having two relatively movable contact elements, a follow-up system including light responsive devices and operatively connecting said shaft with one of said contact elements, and means directly connecting said dial and the other of said contact elements, whereby a manual setting of the dial in accordance with the existing barometric pressure in a given region with respect to sea level will cause said multiple position contactor to take a position corresponding with the altitude location of the altimeter device.

2,609,685
AIRCRAFT INSTRUMENT
John H. Andresen, Jr., Port Washington, N. Y., assignor, by mesne assignments, to Kollsman Instrument Corporation, Elmhurst, N. Y., a corporation of New York
Application September 22, 1944, Serial No. 555,369
1 Claim. (Cl. 73—180)



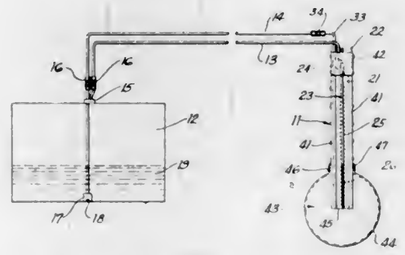
In an aircraft instrument, indicia calibrated in units of air speed, indicating means cooperating with said indicia to indicate a reading thereon, means responsive solely to the angle of attack of the aircraft for effecting relative movement between said indicia and indicating means to indicate a fictitious air speed whose value is determined solely by the angle of attack of the aircraft, and means including a variable lever ratio connection for increasing the relative movement between said indicia and indicating means for a given change in angle of attack as the angle of attack decreases so as to expand the air speed indicia scale in the higher speed ranges.

2,609,686
AIR-SPEED INTEGRATOR
John B. Peterson, Bethesda, Md.; Ruth L. Peterson administratrix of said John B. Peterson, deceased
Application May 14, 1946, Serial No. 669,548
6 Claims. (Cl. 73—183)



4. In a true air-speed integrator, an electrical circuit comprising a source of electricity, a first potentiometer in said circuit, an evacuated static pressure bellows operative to control the contactor on said first potentiometer, a second potentiometer connected at one end to one end of said first potentiometer and at the other end to said source of electricity, a Pitot-static differential pressure bellows operative to control the contactor on said second potentiometer, a condenser in said circuit connected to one of said contactors, mechanism in said circuit connected to the contactor of said second potentiometer for alternately charging said condenser to the voltage output of said first potentiometer and discharging said condenser at a rate which is proportional to the voltage output of said second potentiometer, a resistance in said circuit and sensitive to air temperature for correcting the frequency of said charge-discharge cycles in proportion to the square root of the apparent air temperature, and means responsive to said mechanism for signalling the air distance traveled at a specified number of condenser charging and discharging cycles per unit distance.

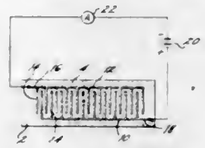
2,609,687
ADJUSTABLE LIQUID GAUGE
Harry L. Coleman, Chicago, Ill.
Application August 3, 1949, Serial No. 108,367
4 Claims. (Cl. 73—299)



2. In a liquid gauge for indicating the quantity of liquid in a tank and having a transparent tube with its upper end connected to said tank and fixed indicia associated therewith for indicating variations of the height of a given quantity of measuring liquid therein, a frame structure for supporting said tube, a reservoir for said measuring liquid flexibly interconnected between the lower end of said tube and said tank, a reservoir-supporting bracket mounted on said frame and adjustably engaging said reservoir to enable variable positioning thereof relative to said tube to selectively vary the height of the measuring liquid in the tube relative to said fixed indicia without changing said given quantity of measuring liquid, and a cover member pivotally mounted on the lower portion of said frame for movement between an inoperative position to facilitate variable positioning of said reservoir and an operative position covering the latter and the lower end of said tube, said cover member having a cut-away portion in one wall thereof defining a horizontal edge comprising the lowermost said indicating indicia when the cover member is in its operative position.

2,609,688
HUMIDITY SENSITIVE DEVICE
Simon Larach, New Brunswick, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1949, Serial No. 130,120
13 Claims. (Cl. 73—335)

10. In a humidity-indicating apparatus of the type comprising a body of electrically insulating material having on a surface thereof a film of a material of which the electrical conductivity varies with the humidity, a pair of electrodes in contact with said film, means for applying a D. C. potential across said film, and



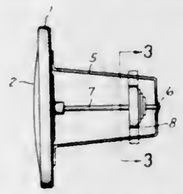
means for detecting changes in said conductivity, the improvement consisting in that said film is a tacky film consisting essentially of a minor amount of water and a salt from the class consisting of the tetrachlorides of tin, zirconium, hafnium, and lead.

2,609,689
UNDERWATER SAMPLING THERMOMETER
Clifford G. Harris, Binghamton, N. Y.
Application January 25, 1949, Serial No. 72,571
9 Claims. (Cl. 73—343)



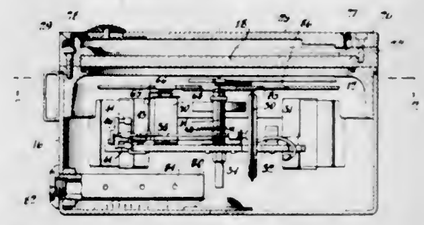
1. In a sampling thermometer adapted to be lowered to varying depths in a liquid, a thermometer casing provided with spreadable ears at each end thereof for holding a lowering and raising line wound about and endwise of said casing.

2,609,690
OVEN THERMOMETER
Frank M. Osborne and Edwin Oblinger, Springfield, Ohio, assignors to The Ohio Thermometer Company, Springfield, Ohio, a corporation of Ohio
Application June 17, 1946, Serial No. 677,328
2 Claims. (Cl. 73—367)



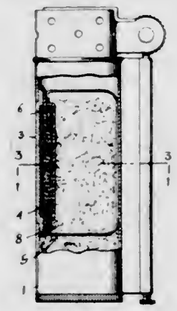
2. A thermally responsive instrument, including a frame presenting side portions and an end portion, a thrust bearing in said end portion, a pivotal shaft extending between said side portions and terminally engaging the thrust bearing, a thermally responsive conical spring one end thereof being fixed to the shaft duofunctionally transmitting torsional influence to said shaft and simultaneous thrust pressure of the shaft against said bearing, indicating means actuated by the rotation of the shaft, and a thrust member transversely slidingly supported by and between the said side portions of the frame, to which member the free end of the spring is fixedly secured.

2,609,691
PORTABLE ALTIMETER
John O. Kirwan, Bloomfield, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey
Application April 4, 1947, Serial No. 739,493
15 Claims. (Cl. 73—386)



3. In a measuring device, in combination, a case having vertical wall structure, a sensitive instrument having supporting structure and disposed within said case, and a plurality of elements composed of elastic sponge material of the interconnecting cell type and extending horizontally from said supporting structure to said wall structure, to provide the sole support of the instrument and supporting structure in the case, each of said elements having T-shaped plan and a vertical thickness comparable to its other dimensions, said supporting structure carrying a plurality of cup-shaped parts each surrounding the end of the shank of a corresponding element, each of said elements having the said end of its shank adhesively secured in the corresponding cup-shaped part and having the outer side of the arm of the T adhesively secured to the inner face of said vertical wall structure.

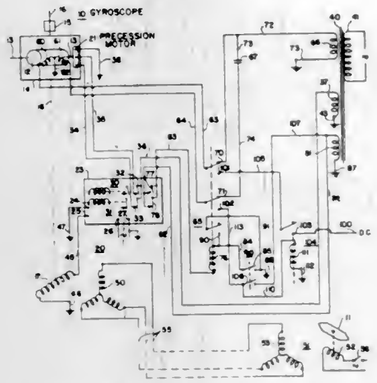
2,609,692
FLUID CONTENT GAUGE FOR LIGHTERS
Erick L. Ahlgren, Houston, Tex.
Application July 15, 1949, Serial No. 105,023
7 Claims. (Cl. 73—432)



1. In a lighter, a translucid pane in the lighter case including a covering of porous material on the inside of the pane, a tapered element of

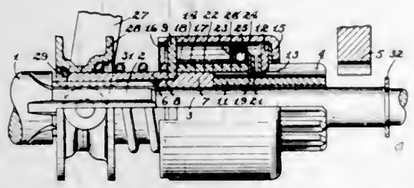
absorbent material, such as felt, adjacent the inside of said covering, clamp means pressing said absorbent element against the covering.

2,609,693
GYROSCOPIC SLAVING APPARATUS
Wayne A. Stone, St. Louis Park, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 9, 1949, Serial No. 114,737
13 Claims. (Cl. 74—5.7)



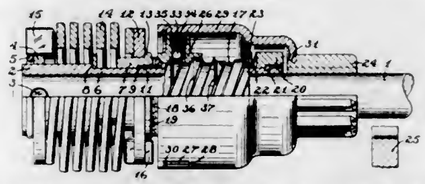
1. In combination, a gyroscope including a rotor and spinning means therefor for normally spinning said rotor at a predetermined speed, means for precessing the gyroscope, braking means for said rotor, manual means for initially rendering said braking means effective to reduce the speed of said rotor so as to decrease gyroscopic rigidity and increase the effect of operation of said precession means, and means responsive to a condition indicative of the rotor assuming a lower predetermined speed for automatically terminating the operation of said braking means.

2,609,694
ENGINE STARTER GEARING
James E. Buxton, Elmira, N. Y., assignor to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware
Application November 24, 1950, Serial No. 197,442
4 Claims. (Cl. 74—6)



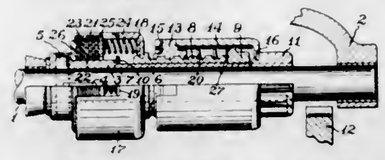
1. In an engine starter shift a power shaft, a sleeve splined thereon, means for sliding the sleeve axially along the shaft, a pinion slidably journaled on the power shaft for longitudinal movement into and out of mesh with a gear of an engine to be started, said pinion having an extended hub in abutting relation to the sleeve and of substantially the same outside diameter, a coiled clutch spring bearing on the sleeve and hub and forming the driving connection therebetween, a thrust ring mounted on the sleeve, a radial flange fixed to the pinion, a barrel member surrounding the clutch spring and limiting the separation of the thrust ring and flange, yielding means compressing the clutch spring endwise between the thrust ring and flange, and centrifugal means for compressing the yielding means and thereby relieving the pressure on the clutch spring.

2,609,695
ENGINE STARTER GEARING
James E. Buxton, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application December 22, 1950, Serial No. 202,224
5 Claims. (Cl. 74—7)



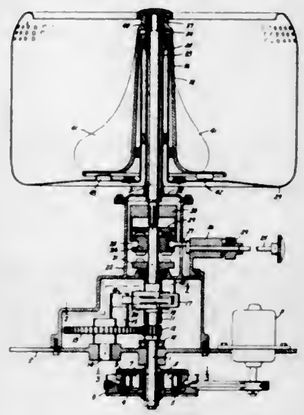
1. In an engine starter drive, a power shaft, a sleeve fixed thereon at one end, a driving overrunning clutch member slidably journaled on said sleeve, means including an elastic cushioning member connecting the driving clutch member to the sleeve, thrust means limiting the longitudinal movement of said clutch member away from said cushioning member, a driven clutch member and screw shaft slidably journaled on the sleeve, a stop member on the free end of the sleeve, a compression spring on the sleeve between the screw shaft and stop member, a pinion slidably journaled on the power shaft for movement into and out of mesh with an engine gear, a control nut threaded on the screw shaft, a barrel member connecting the nut and pinion, said screw shaft having a peripheral recess defined at one end by a shoulder, and a yielding detent in the control nut positioned to enter said recess when the pinion is moved into mesh with the engine gear.

2,609,696
ENGINE STARTER DRIVE
Youston Sekella, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application September 26, 1946, Serial No. 699,410
8 Claims. (Cl. 74—7)



1. In an engine starter drive a power shaft, a pinion mounted for longitudinal movement thereon into and out of mesh with a gear of an engine to be started, means actuated by the power shaft for traversing and rotating the pinion including driving and driven sets of spring-loaded frictionally-engaging clutch elements, a pair of inter-threaded members, and means slidably but non-rotatably connecting one of said inter-threaded members to one of said sets of clutch elements, abutment means for defining the operative position of the pinion, and means whereby longitudinal movement of said one threaded member after the longitudinal movement of the pinion is arrested by the abutment causes the spring loading of the clutch to be gradually increased.

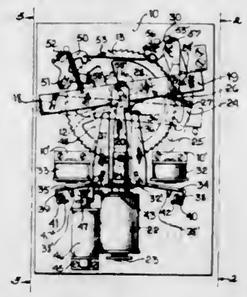
2,609,697
DRIVE MECHANISM FOR WASHING MACHINES AND THE LIKE
Garnet W. Ruscoe, Trumbull, Conn., assignor to General Electric Company, a corporation of New York
Application September 7, 1950, Serial No. 183,611
1 Claim. (Cl. 74—70)



A drive mechanism for transmitting rotary and oscillatory motion to a driven shaft, comprising a first and second drive shaft, said second drive shaft having an axial bore therein for receiving said first drive shaft, means for rotatably driving said first drive shaft, means connected to said first drive shaft for driving said second shaft oscillatably, a first clutch device secured to said first shaft and having a plurality of radial drive dogs secured to one face thereof, a second clutch device secured to said second shaft and provided with a passageway through which said first shaft extends and having a plurality of radial drive dogs secured to one face thereof, a third clutch device having a circumferential groove therearound and a plurality of radial drive dogs secured to each face thereof, said third clutch device slidably mounted on said first drive shaft between said first and second clutch devices, a shift lever mechanism engaging said third clutch device in said circumferential groove and operative to slide said third clutch device along said first shaft selectively to engage said first clutch device or said second clutch device, and an inverted cup-shaped member extending concentrically around said first clutch device and secured to said third clutch device, said driven shaft being secured at one end to said inverted cup-shaped member.

2,609,698
STEP-UP MECHANISM
William Patzer, Chicago, Ill., assignor to Clarence E. Threedy, Chicago, Ill., as trustee
Application October 6, 1951, Serial No. 250,076
4 Claims. (Cl. 74—128)

1. A device of the class described comprising a supporting structure, a shaft rotatably carried by the structure, a ratchet wheel carried by and rotatable with said shaft, an actuating bar pivotally carried by said support, a step-up pawl pivotally connected to said actuating bar, said pawl engageable with said wheel for advancing said wheel a predetermined number of steps, electromagnetic means including a plunger pivotally connected to said bar and adapted to actuate said bar to advance said pawl over said wheel, said plunger having notches formed on opposite sides thereof with one of said notches offset with respect to the other to provide shoulders at substantially different levels with respect to the length of said plunger, means engageable with



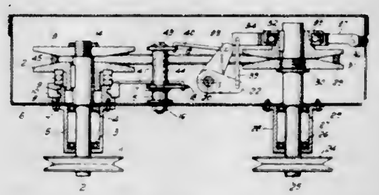
said shoulders to vary the position of engagement of said pawl with said wheel, and a holding dog engageable with said wheel to hold said wheel against rotation in a direction opposite to the movement of said wheel by said pawl.

2,609,699
NOISELESS SHEAVE
Abbott M. Rohn, Detroit, Mich.
Application November 15, 1948, Serial No. 60,166
4 Claims. (Cl. 74—230.5)



1. A pulley for friction belt transmissions having an adherent coating on the belt-engaging surface thereof chiefly cadmium.

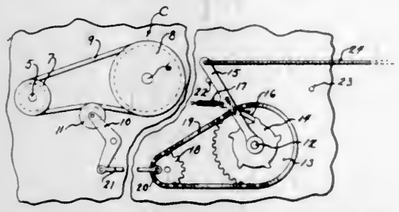
2,609,700
VARIABLE SPEED MECHANISM
Ferdinand Montemarani, Fort Erie, Ontario, Canada
Application July 15, 1950, Serial No. 174,002
2 Claims. (Cl. 74—230.17)



1. A variable speed mechanism comprising in combination a casing, driving and driven shafts, a pair of coacting V-pulleys each split to form a pair of coacting discs, one of the said pulleys being mounted within the casing on the driving shaft and rotatable therewith and having one of its discs fixedly secured on the end of the said driving shaft, the coacting disc of said pulley being splined to the said driving shaft for axial movement thereon, a threaded cylinder disposed

around the said driving shaft, a nut threaded on the cylinder and adapted to operate upon the outer face of the pulley disc splined to the driving shaft, the other of said pulleys being mounted within the casing on the driven shaft and rotatable therewith and having one of its discs positioned at the end of said driven shaft and splined thereto for axial movement thereon, the coacting disc of said pulley being fixedly mounted on the said driven shaft, a V-belt coacting with said pulleys, a crank bracket comprising two levers, said bracket being pivotally mounted with one of its lever ends operatively associated with the axially movable disc of the pulley mounted on the driven shaft and operating when turned in one direction to urge said disc toward the disc fixedly secured on said driven shaft, manually controlled means for selectively actuating the said crank bracket, a second crank bracket pivotally mounted and actuated by the second lever of the first crank bracket, said second crank bracket having a lever end operatively associated with the nut threaded on the cylinder on the driving shaft and operating to urge the axially movable disc of the pulley mounted on the driving shaft toward the disc fixedly secured on said driving shaft, the V-belt coacting with said pulleys to impart to one pair of pulley discs a like inverse variation in diameter to that positively imparted to the other pair of pulley discs.

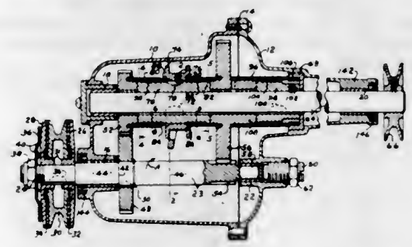
2,609,701
REMOTE CONTROL FOR POWER DRIVES
Albert A. Schmitz, Racine, Wis.
Application February 20, 1950, Serial No. 145,291
2 Claims. (Cl. 74—242.1)



1. In an operating device for connecting and disconnecting a power drive, a crank wheel, an actuating lever, a link operatively connecting the crank wheel to the actuating lever, the connection of the link with the crank wheel being eccentric with respect to the axis of the crank wheel, an operating member, and means for rotating the crank wheel ½ a revolution upon each movement of the operating member in the same direction, said link being on dead center upon each operation of the crank wheel.

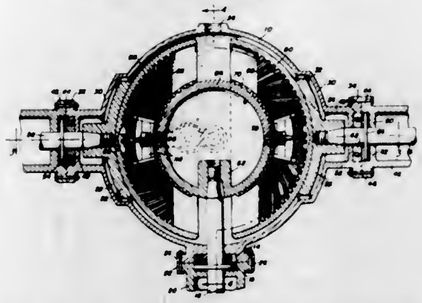
2,609,702
TRANSMISSION
John P. Rogers, Liverpool, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application July 18, 1950, Serial No. 174,536
8 Claims. (Cl. 74—368)

1. In combination with a constant mesh, plural ratio transmission, gearing, having high and low speed driven gears and separate selectively operable overrunning clutch means associated with each driven gear arranged to couple the same to a common output shaft concentric therewith for driving the output shaft in one direction at either one of two different speeds, means for normally biasing said selectively operable overrunning clutch means for engagement of the low speed driven gear with the



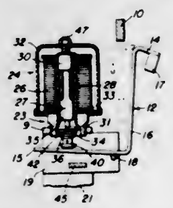
shaft, and control means for overcoming said biasing means for engagement of the high speed driven gear with the shaft.

2,609,703
TRANSMISSION-DIFFERENTIAL ASSEMBLY
William Hesch, Sr., Santa Fe, N. Mex., assignor to Bernadine Hesch, Santa Fe, N. Mex.
Application July 23, 1951, Serial No. 238,138
11 Claims. (Cl. 74—424.5)



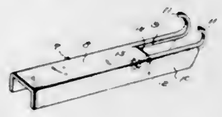
1. A gearing assembly comprising driving and driven shafts, a spherical gear on the driving shaft and a hemispherical gear on the driven shaft, an intermediate gear engaging and interposed between the above mentioned gears, means for moving said intermediate gear relative to said driving and driven gears upon an arc which is perpendicular to the axis of rotation of said driving gear.

2,609,704
ELECTROMAGNETICALLY CONTROLLED LATCH DEVICE
William S. Anderson, Jr., Williamsport, Pa., assignor of one-half to James E. Axeman, Williamsport, Pa.
Application August 23, 1948, Serial No. 45,777
5 Claims. (Cl. 74—526)



1. An electromagnetically controlled latching mechanism for controlling the movement of an operating member comprising in combination, a magnet having a fixed part and a movable part and including means for causing the movable magnet part to be moved in a first direction when the magnet is energized and to be moved in a second or reverse direction when the magnet is deenergized, a movable latch for said operating member mounted adjacent to but not connected with said movable magnet part, the latch having a part thereof mounted in the path of movement of the movable magnet part and having movement in the line of movement of the movable magnet part so that the movable magnet part moves away from the said latch part when the magnet is energized and moves against the latch part to move the latch to latching position when the magnet is deenergized, and means associated with the latch for moving the said latch part toward the movable magnet part but with a force less than the force urging the movable magnet part in the reverse direction to operate the latch.

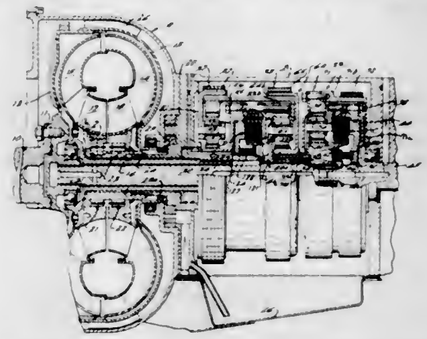
2,609,705
BRAKE PEDAL EXTENSION FOR MOTOR VEHICLES
Irby Ray Fletcher, Sr., Opa Locka, Fla.
Application March 23, 1951, Serial No. 217,101
4 Claims. (Cl. 74—562.5)



3. A foot brake extension pedal for detachable clamping engagement with a vehicle foot brake having an operating shank and a foot pad, the extension including a straight channel bar, one end of which is slotted to form a pair of parallel legs terminating in upstanding right angle tongues, a clamping web struck from the bar at the inner end of the slot and bent downwardly to be vertically arranged, the bar adapted to engage the pedal with the shank positioned in the slot and in contact with the web with the tongues projecting above the pedal pad, the tongues adapted to be bent inwardly and downwardly over the edge of the pad and frictionally binding the web against the side of the shank, the bar being positioned in underlying contact with the pad and extending laterally in a horizontal plane.

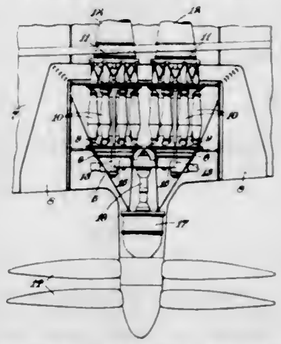
2,609,706
HYDRODYNAMIC TRANSMISSION
Joseph Jandasek, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 15, 1948, Serial No. 21,140
33 Claims. (Cl. 74—645)

1. In a hydrodynamic transmission, an input shaft and an output shaft, a hydraulic torque converter unit comprising an impeller member, a turbine member and a reaction member, means drivingly connecting said impeller member to said input shaft, a variable speed gear unit operably connected between said shafts comprising a planetary gear train having meshingly engaged sun, pinion and annulus gears, a carrier for said pinion gears, and braking means for said sun gear, said annulus gear being drivingly connected to said turbine member and said pinion gear carrier being drivingly connected to said output shaft to provide means for the transmission of a low speed, combination hydraulic and mechanical torque multiplying, underdrive, a first clutch means adapted to directly connect said impeller and turbine members to lock said torque converter unit out of said low speed underdrive train to thereby provide means for the transmission of a positive, high speed underdrive, a second clutch means adapted to directly connect said input and output shafts for the transmission of direct drive, output shaft speed and torque responsive control means adapted to operate said clutch means to



automatically upshift said low speed underdrive to said high speed underdrive and to said direct drive and to automatically downshift said direct drive back into said high speed underdrive and said low speed underdrive, and manually controlled means adapted to operate said second clutch means to overrule said speed and torque responsive means to provide means for accomplishing a kickdown from said direct drive to said high speed underdrive.

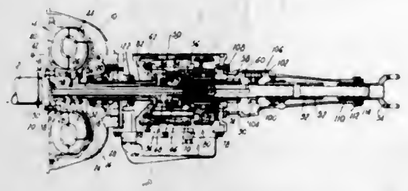
2,609,707
TRANSMISSION GEARING FOR POWER PLANTS
Francis Charles Ivor Marchant, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application April 9, 1947, Serial No. 740,498
In Great Britain March 19, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 19, 1966
3 Claims. (Cl. 74—665)



1. Transmission gearing for multi-engine power plants comprising a pair of parallel engine shafts, an intermediate shaft common to said engine shafts and disposed parallel therewith, a first reduction gearing drivingly connecting the engine shafts to said common shaft, means for independently coupling each engine shaft to, and uncoupling it from, said first reduction gearing, a pair of oppositely rotating output shafts, said

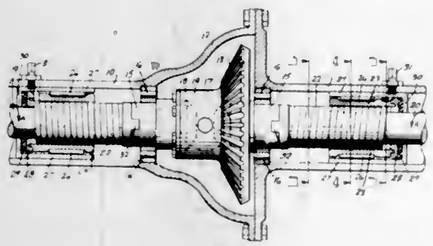
output shafts being coaxially nested one within the other and lying between and parallel with said engine shafts, the intermediate shaft being coaxial with the output shafts, and a second gearing drivingly connecting the common shaft to the output shafts, said common shaft extending from the first to the second gearing and being connected to each of the first and second gearings by means of a flexible joint, said second gearing effecting a further speed reduction and also rotation of the output shafts in opposite directions.

2,609,708
TRANSMISSION
Richard T. Burnett, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 13, 1949, Serial No. 115,509
6 Claims. (Cl. 74—677)



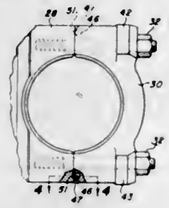
1. In a transmission, the combination of a hydrokinetic torque converter, a planetary gear train comprising ring and first sun gears interconnected with said torque converter, a planet carrier mounting pinions interposed between said first sun and ring gears, a second sun gear arranged in mating relationship to one of said pinions, a one-way brake connected to said second sun gear, an output member, and means for connecting the output member to the first sun gear or planet carrier.

2,609,709
DIFFERENTIAL GEAR CONTROL DEVICE
Louis H. Pixler, Englewood, and Harry B. Pixler, Denver, Colo.
Application June 2, 1950, Serial No. 165,702
5 Claims. (Cl. 74—711)



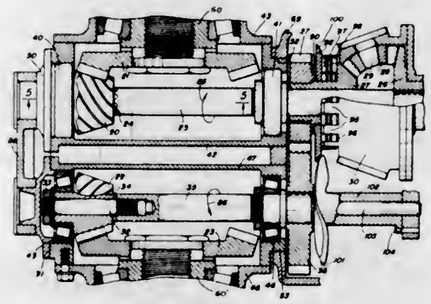
1. In an automotive differential gear of the type having a planet gear case joining two axles, means for preventing either axle from suddenly rotating faster than the other, comprising: a collar secured to and extending outwardly from each side of said case about one of said axles, said axle having a reduced diameter portion which is rotatable in said collar, the portion of said axle adjacent said collar being of uniform external diameter therewith; and a helical spring wrapped about said collar and about the adjacent axle so that when said collar tends to rotate forwardly faster than said axle, said spring will wind so as to contract about both the collar and the axle so as to tend to lock the same together.

2,609,710
PIN DOWELED BEARING CAP
Paul V. Osborn, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application June 11, 1948, Serial No. 32,509
9 Claims. (Cl. 74—713)



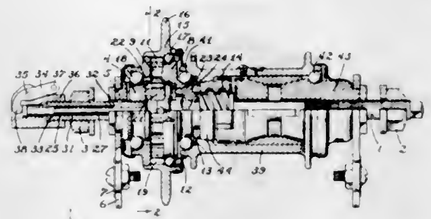
9. The method of assembling a two-part bearing support which comprises providing the separate parts having semi-circular cavities therein and adjacent abutment faces with at least one abutment face having a sharp projection protruding therefrom, then assembling said parts with said cavities opposed so that said projection forms and enters a depression in the opposite abutment face, then machining said cavities to form bearing seats, then disassembling said parts and mounting a bearing in the seats and reassembling the parts, said projection and depression accurately relocating said parts in the assembly.

2,609,711
AXLE DRIVE
Ernest Wildhaber, Rochester, N. Y.
Application August 20, 1947, Serial No. 769,726
16 Claims. (Cl. 74—713)



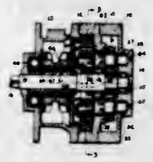
1. An axle drive for an automotive vehicle comprising a pair of drive pinions mounted for rotation on adjacent parallel axes, a driven gear meshing with each pinion with its axis angularly disposed to the axis of the pinion, an axle shaft secured to each driven gear and operatively connected to one of two opposite wheels of the vehicle, and means for driving the two pinions simultaneously in opposite directions, said driven gears facing one another and having longitudinally inclined teeth which are of the same hand, and the two pinions having longitudinally inclined teeth which are of the same hand but of opposite hand to the teeth of the gears and being mounted one above the other at the same side of the axes of the gears.

2,609,712
TWO-SPEED GEARING FOR BICYCLES
Edwin Elliott Hood, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application January 22, 1951, Serial No. 207,073
2 Claims. (Cl. 74—781)



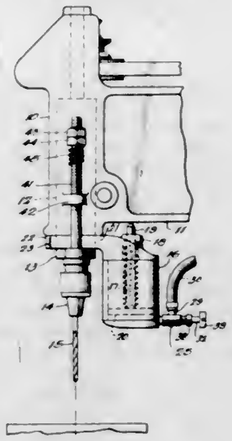
1. In a two speed gear drive for bicycles, a stationary axle, a bearing member threaded thereon, an anchor member having a positive torque-transmitting connection with the bearing member, an anchor arm non-rotatably mounted on the anchor member having means for attachment to the frame of the bicycle for immobilizing the anchor member, a nut threaded on the axle adjacent the anchor member serving to secure the anchor arm on the anchor member and to clamp the anchor member against the bearing member, a planet carrier and clutch member journaled on the axle having a plurality of bearing studs, planet pinions journaled on said studs, a driving member rotatably mounted on the planet carrier having an orbit gear meshing with the planet pinions, a sun gear slidably journaled on the axle, meshing with the planet pinions; said bearing member and said planet carrier being formed for positive torque transmitting engagement with the sun gear; and means for shifting the sun gear axially for alternative engagement with the fixed bearing member or the planet carrier.

2,609,713
PLANETARY GEARING
Charles C. Martin and David A. Round, Cleveland, Ohio, assignors to David Round & Son, Cleveland, Ohio, a firm
Application January 30, 1951, Serial No. 208,594
5 Claims. (Cl. 74—805)



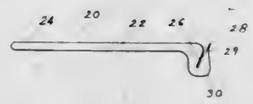
1. In a hoist, a housing member, a driving shaft journalled in said housing member, driven shafts journalled in said housing member and having eccentric portions, gears mounted upon said driving and driven shafts for rotation therewith, said gears on said driven shafts meshing with said gear on said driving shaft, an external gear mounted on said eccentric portions and having an opening of greater diameter than said driving shaft through which said driving shaft extends, an internal gear mounted in said housing member and meshing with said external gear, and a load wheel mounted upon and rotatable with said internal gear.

2,609,714
POWER TOOL FEED DEVICE
Theodore E. Mead, Wilmette, Ill.
Application October 4, 1947, Serial No. 777,991
3 Claims. (Cl. 77—33.5)



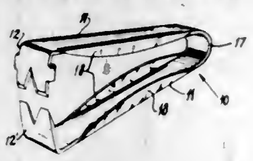
1. A feed device for a longitudinally-movable tool supported in a fixed frame, said longitudinally-movable tool being guided by a stationary arm and being equipped near its lower end with a yoke, an air cylinder provided at one end with an air inlet and at the other end with a head having a central passage therethrough, a piston in said cylinder provided with a stem extending through said head passage and having a tip freely engaging said stationary arm, said head being provided with laterally-extending arms resting upon said yoke and secured about said longitudinally-movable tool, and means for supplying compressed air to said inlet of said cylinder.

2,609,715
DEVICE FOR OPENING PAPER CARTONS
James D. Eades, Wichita, Kans.
Application April 23, 1947, Serial No. 743,329
3 Claims. (Cl. 81—3)



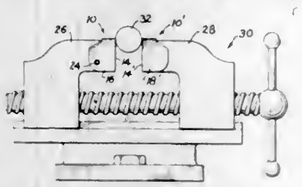
1. A tool for lifting the tabs or flaps of paper cartons and the like comprising a handle having a laterally-extending, substantially U-shaped offset at one end thereof with one leg of the U attached to the handle and the other leg free, the space between the legs of the U being inclined rearwardly toward the handle and the forward face of the free leg of the U being undercut adjacent its free end with the upper end of the forward face of said free end merging into the rear face of said leg to form a penetrating point and a spaced fulcrum surface whereby the free end may be inserted under a flap and the tool rocked about said fulcrum point to lift the tab.

2,609,716
WIRE INSULATION STRIPPER
Benjamin G. Forman, Brooklyn, N. Y., assignor to Wilbe Research Corporation, Brooklyn, N. Y., a corporation of New York
Application March 5, 1949, Serial No. 79,891
1 Claim. (Cl. 81—9.5)



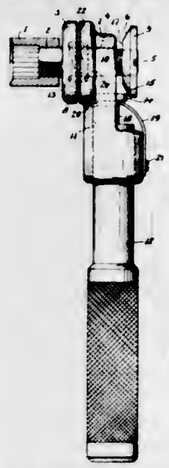
In a tool for shearing apart duplex insulation wires and for shearing and stripping insulation from single insulation wires, a one-piece U-shaped spring comprising a pair of manually grippable and normally separated resilient arms, each of said arms having a free end jaw portion directed toward the other arm and which terminates in horizontally beveled shearing edges having V-shaped shearing edges centrally thereof, said beveled surfaces being arranged on opposite sides of said jaws to coact in shearing relationship, said jaws being of concentric arcuate form adapted to swing in parallel arcs, one of said jaws having extensions forming a guide-way for the other arm for alining said V-shaped shearing surfaces, internally abuttable arcuate lateral extensions at the rear portions of said arms to regulate the space between said shearing edges in closed position of said arms, said lateral arm extensions being in point contact relation when said jaws are in operative contacting relation, thereby permitting limited resilient movement of the shearing edges of said arms relative to each other to grip bare wires of different diameter during the stripping operation without cutting said bare wires.

2,609,717
VISE JAW FACE PLATE
Arthur M. Maroth, Wilton, Conn., assignor of one-third to Kay Christensen, Norwalk, Conn., and one-third to William C. McTarnahan, New York, N. Y.; Grace Kaber McTarnahan, Walter N. Maguire and Bankers Trust Company, executors of said William C. McTarnahan, deceased
Application July 9, 1951, Serial No. 235,710
1 Claim. (Cl. 81—38)



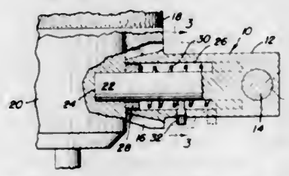
A face plate for mounting on a vise jaw comprising a face portion of substantially rectangular configuration formed to extend across and cover the gripping face of an associated vise jaw, ears on the opposite end of said face portion and extending rearwardly therefrom to loosely receive the sides of the associated vise jaw therebetween, a flange extending rearwardly from said face portion flush with the top edge of the latter to rest upon the top of the associated vise jaw, said flange being integral at its opposite ends with said ears to resist spreading apart of the latter and having a relatively small thickness so that the part of said face portion extending above the associated vise jaw is correspondingly small, and an Allen screw threadedly extending through one of said ears to adjustably bear against the adjacent side of the associated vise jaw, said screw being disposed to rotate about an axis located substantially below the transverse medial line of said face portion to prevent upward swinging of the latter.

2,609,718
SPEED WRENCH
Frank L. Fulke, Terre Haute, Ind.
Application August 2, 1950, Serial No. 177,210
11 Claims. (Cl. 81—58.3)



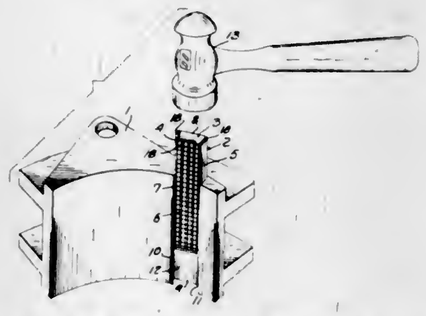
8. In a device of the class described, a stem, a block mounted for rotation about the axis of said stem, said stem and said block being relatively axially movable, a clutch element fixed relative to said stem, a clutch element fixed relative to said block, spring means resiliently urging separation of said clutch elements, a handle carried by said block for reciprocation and oscillation relative to said block upon its own axis, said handle projecting substantially radially relative to said stem, a coned abutment member coaxially carried by said stem, said block and said handle being interposed between said stem clutch element and said abutment member, and cam means moving with said handle and cooperating with said abutment member, upon oscillatory movement of said handle or reciprocatory movement thereof toward said stem axis, to force said clutch elements, against the tendency of said spring means, into driving engagement.

2,609,719
SELF-EJECTING CHUCK KEY
Chester G. H. Lilley, Mount Rainier, Md.
Application November 18, 1949, Serial No. 128,083
4 Claims. (Cl. 81—90)



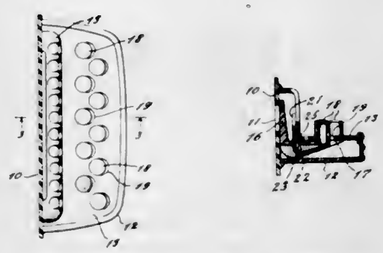
3. In a self-ejecting chuck key, the combination of an elongated body provided in one end portion thereof with an annular bore defining a cylindrical stud which projects outwardly beyond the end of said body for reception in a locating hole of a chuck, means on said body adjacent the outer end of said stud for operatively engaging a jaw actuating member of the stated chuck, an annular chuck engaging member slidable on said stud and receivable in said bore, a compression spring positioned on the stud for sliding said chuck engaging member outwardly from the bore, and means for preventing separation of said chuck engaging member from said stud.

2,609,720
DIE FOR PIPE TONGS AND METHOD OF MAKING SAME
Norval J. Barnard, Oklahoma City, Okla., assignor, by mesne assignments, to Charles C. Weiss, Oklahoma City, Okla.
Application October 19, 1951, Serial No. 252,173
8 Claims. (Cl. 81—186)



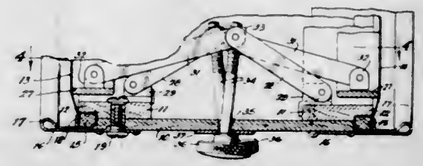
1. A die of the character described including a bar-like body portion having a relatively hard toothed gripping face and a relatively soft core and substantially hard side surfaces surrounding the core with the ends of the core being exposed and projecting beyond the hardened side surfaces of the die.

2,609,721
KEY ASSEMBLY FOR MUSICAL INSTRUMENTS
Emil J. Ens, Newark, N. J., assignor to Magnus Harmonica Corporation, Newark, N. J., a corporation of New Jersey
Application July 5, 1951, Serial No. 235,288
10 Claims. (Cl. 84—376)



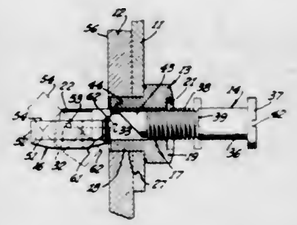
1. A key assembly for a musical instrument comprising a series of independently movable keys and a key-actuating member of resilient plastic material having a series of spaced fingers thereon, each of said spaced fingers engaging with one key of the series of keys and resiliently urging said key in one direction, said key being depressable manually in an opposite direction.

2,609,722
DRUM
George H. Way, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a corporation of Indiana
Application April 28, 1950, Serial No. 158,799
6 Claims. (Cl. 84—411)



1. A drum comprising a hollow body open at at least one end, a vibratile head extending across the open end of the body, means rigidly securing the head to the body around the open end, an annular ring in the body adjacent the open end to engage the interior surface of the head, pivotally interconnected toggle links one of which is pivoted to the drum body and the other of which is pivoted to the ring, and adjustable tension means extending through the body and connected to the central portion of the toggle links.

2,609,723
HIGH SHEAR BLIND FASTENER
Kenneth I. Stubbs, Los Angeles, Calif.
Application February 24, 1947, Serial No. 730,450
4 Claims. (Cl. 85—3)



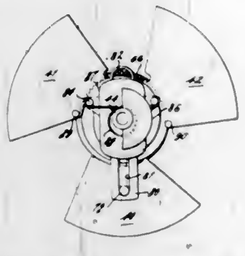
1. In a fastening device of the character described, a stud having an axial bore therethrough and comprising a shank and means adjacent the outer end thereof providing an outer work-gripping surface, a screw comprising a threaded shank receivable within said bore and a head on the outer end of said screw's shank, said screw's shank substantially filling said stud's bore whereby said stud and screw co-operate in presenting a substantially solid section developing maximum resistance to shear, a nut providing an inner work-gripping surface, said nut being threaded complementarily to said screw's shank, and means mounting said nut on the inner end of said stud for rotary movement about an axis perpendicular to the bore of said nut and for sliding movement axially of said stud, said nut-mounting means holding said nut against turning with respect to said stud about said stud's axis, and said nut being extended in a direction perpendicular to its bore to a length greater than the diameter of said stud.

2,609,724
SHUTTER FOR MOTION-PICTURE PROJECTORS
Warren R. Isom, West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 20, 1948, Serial No. 45,303
4 Claims. (Cl. 88—19.3)



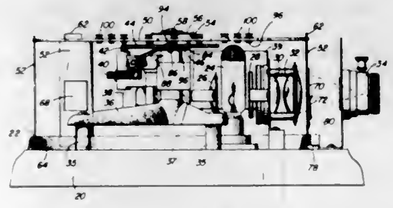
1. A motion picture projector shutter system comprising a shaft, a cover blade mounted on said shaft, an optical system, a picture film aperture plate having an aperture therein in which a film is adapted to be intermittently positioned, said shutter blade being located beyond the focal plane of said optical system to provide both variable area and variable density effects at said aperture, said cover blade having its leading edge substantially parallel with the axis of said aperture to actually cover substantially three-fourths of said aperture and provide a penumbra shadow over the remaining portion of said aperture at the time of the first movement of said film from said aperture, and having its trailing edge substantially parallel with the axis of said aperture when said edge passes said aperture to actually cover substantially three-fourths of said aperture different from said first mentioned portion and provide a penumbra shadow over the remaining portion of said aperture at the time of the last movement of said film into said aperture.

2,609,725
VARIABLE LIGHT INTERRUPTING SHUTTER
Warren R. Isom, West Collingswood, and Dallas R. Andrews, Collingswood, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application August 28, 1948, Serial No. 46,668
5 Claims. (Cl. 88—19.4)



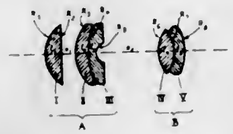
1. A shutter mechanism comprising a shaft, three blades on said shaft, one of said blades being fixed to said shaft and the other of said blades being rotatable with respect to said shaft to both overlapping and non-overlapping positions, a weight member having an offset slotted portion encircling said shaft, means associated with said fixed blade for guiding the radial movement of said member, means interconnecting said rotatable blades with said weight member, said means including pin and slot connections between said rotatable blades and said weight member, and tensioning means for biasing said weight member toward the axis of said shaft, said weight element rotating said rotatable blades to overlapping position at a predetermined speed of rotation of said shaft, said shutter mechanism being balanced when said rotatable blades are in both said overlapping position and in said non-overlapping position.

2,609,726
MULTISLIDE AUTOMATIC TURNTABLE PROJECTOR
Florindo J. Perillo, Tucson, Ariz.
Application June 6, 1950, Serial No. 166,332
3 Claims. (Cl. 88—27)



3. In a projector for successively and repeatedly projecting on a screen the pictures on a plurality of slides, a lamp and lens system providing a light beam, a base having a circular and vertically-extending groove, a turn-table horizontally arranged for rotation on the axis of said groove with the edge of said turn-table approximately above said groove, a plurality of slide-holders, means for attaching the upper portion of each slide-holder to the edge of said turn-table so that it hangs therefrom with the lower portion of the slide-holder in said groove, and a spring cooperating with the lower portion of each slide-holder as it arrives in the path of the light beam as said turn-table rotates thereby temporarily pressing the lower portion of that slide-holder against a wall of said groove.

2,609,727
OBJECT-GLASS WITH A VARIABLE FOCAL LENGTH
François Laurent, Paris, France, assignor to Etablissements Emel, Paris, France, a French company
Application January 5, 1949, Serial No. 69,285
In France January 10, 1948
1 Claim. (Cl. 88—57)



In a variable focal length objective, a positive front group of a focal length f_1 comprising a positive front lens and two cemented lenses forming a divergent meniscus of positive convexity, said two cemented lenses being disposed behind the said positive front lens and separated therefrom by an air space of constant dimensions, a rear group of focal length f_2 comprising two cemented lenses, with an air space e_2 separating the said positive front group from the said rear group, said air space e_2 being adjustable between 0 and

f_1 to permit adjustment of the focal length F of the assembly according to the equation:

$$F=\frac{f_1\times f_2}{f_1+f_2-e_2}$$

whereby the focal length F varies between the value

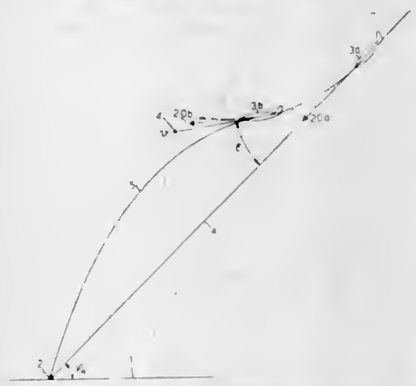
$$\frac{(f_1\cdot f_2)}{f_1+f_2} \text{ and } (f_1)$$

2,609,728
PIPE INSPECTING APPARATUS
Ralph K. Cadwell, Alhambra, Calif., assignor to American Pipe & Steel Corporation, Alhambra, Calif., a corporation of Nevada
Application November 1, 1949, Serial No. 124,837
2 Claims. (Cl. 88—71)



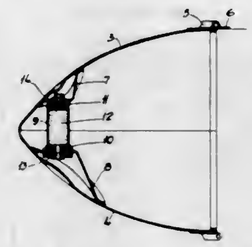
1. A pipe inspecting apparatus comprising a tube, supports for the tube for supporting the same within a pipe, said supports having casters adjustably mounted at circumferentially spaced points thereon, anti-friction bearings between the tube and said supports, a mirror on one end of the tube arranged to receive light from a point radially with respect to the tube, means for projecting light on said point, a telescope rotatably mounted on the other end of said tube, and an indicator on the tube in longitudinal alignment with said point.

2,609,729
BOMBING INSTRUMENT FOR AIRCRAFT
Erik Alvar Wilkenson and Per Torsten Faxén, Linkoping, Sweden, assignors to Svenska Aeroplan Aktiebolaget, Linkoping, Sweden, a joint-stock company of Sweden
Application October 5, 1949, Serial No. 119,708
In Sweden August 4, 1941
10 Claims. (Cl. 89—1.5)



1. A bomb release instrument for use in aircraft having sighting means providing an optical axis fixable in parallelism with a fixed axis of the aircraft which is substantially parallel to the normal path of motion of the aircraft so that by maneuvering the aircraft said optical axis may be brought into coincidence with the line of sight from the aircraft to the target during a dive toward the target, said bomb release instrument comprising: manually operable control means for initiating the automatic functioning of the instrument so that when said optical axis has been brought into coincidence with the line of sight to the target the automatic operation of the instrument can be started; instrumentalities for producing an output which is a function of the speed of the aircraft, a distance which is related to the position in space of the aircraft with respect to the target, and the angle between said axis of the aircraft and the horizontal at the instant the automatic functioning of the instrument is initiated by the actuation of said manually operable control means; instrumentalities for ascertaining the changing slope of said axis of the aircraft during a straightway pull-out after a dive and for producing an output which is a function of said changing slope; and control instrumentalities connected with said first and second named instrumentalities and responsive to the differential of their outputs, said control instrumentalities including a release impulse device for actuating a bomb release when said differential attains a predetermined value.

2,609,730
ROCKET DISCHARGER
Lars O. Bergström, Bofors, Sweden, assignor to Aktiebolaget Bofors, Bofors, Sweden
Application November 2, 1948, Serial No. 57,971
In Sweden November 7, 1947
2 Claims. (Cl. 89—1.7)

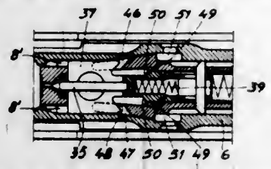


1. A device for discharging rockets from aircraft comprising a container rupturably supported by the aircraft, said container having a plurality of rocket discharge tubes, a rupturable nose piece for said container comprising a pair of substantially similar cooperating halves, parabolic in cross section when joined, each half being detachably hooked to the container at one end, said nose piece halves being joined at the nose thereof by an explosive connection, and means for igniting said explosive connection to rupture the joint of said nose piece at the nose and to unhook said sections from the container.

2,609,731
PIVOTED BREECH BLOCK LOCKING MECHANISM
Börje Sahlin, Stockholm, and Edvin Emanuel Jansson, deceased, late of Bofors, Sweden, by Halvar Nyqvist, executor, Bofors, Sweden, assignors to Aktiebolaget Bofors, Bofors, Sweden, a joint stock company of Sweden
Application May 6, 1948, Serial No. 25,485
In Sweden March 29, 1945
2 Claims. (Cl. 89—190)

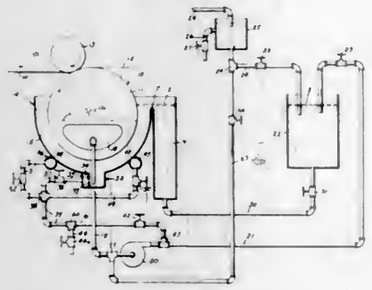
1. In an automatic firearm having a short barrel recoil in the longitudinal direction, said firearm having a recoiling system which includes a recoil jacket, a positively closed breech block,

and at least two breech latches each provided with an oblique cam surface and arranged between said breech and said recoiling system for locking or unlocking said breech to said recoiling system, said breech latches being positioned in an oblique position in relation to said longitudinal direction when said breech is locked to said recoiling system, breech unlatching mechanism, which includes, in combination, an abutment positioned on said recoil jacket, a pivot shaft fixed to said recoiling system; a pivoted unlatching member pivoted on said pivot shaft, whereby said pivoted unlatching member, when said fire-



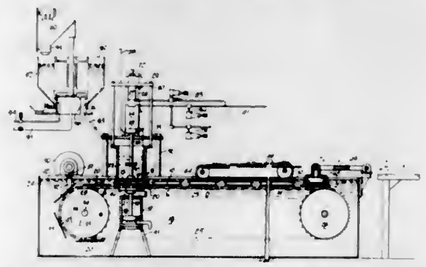
arm is fired, strikes against said abutment stop and is thereby caused to pivot about said shaft; and an element operatively disposed so as to be moved by said pivoted unlatching member as it pivots about said shaft; said element being provided with at least two obliquely disposed cam surfaces at its rearward end, whereby said cam surfaces, when they strike against the cam surfaces of the said breech latches upon rearward movement of said element, act so as to unlatch said breech latches and thereafter act so as to impart a rearward initial movement to said breech, after said breech latches have been unlatched.

2,609,732
CYLINDER PAPERMAKING MACHINE
Roy H. Breyfogle, Alton, Ill., assignor to Alton Box Board Company, Alton, Ill., a corporation of Delaware
Application March 14, 1946, Serial No. 654,310
2 Claims. (Cl. 92—43)



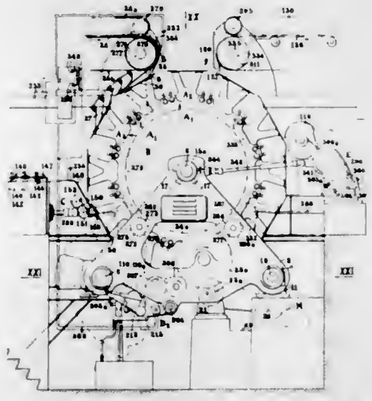
1. A cylinder type paper making machine comprising a stock vat defining a vat circle for confining a pond of stock, a cylinder mold mounted in said vat circle for rotation through the pond of stock, said vat circle embracing substantially more than the lower half of said cylinder mold, but being open to the atmosphere at an elevation below the top of said cylinder mold, a feed box for supplying stock to the vat circle adjacent the top of the stock pond at the ascending side of the cylinder mold, a localized chamber extending across the width of said vat circle adjacent the bottom thereof, said chamber having an orifice communicating with the pond of stock in the vat circle across the width thereof, a drain outlet for the interior of said cylinder mold, means for pumping white water from said drain outlet, and valved conduits connecting said pumping means with said chamber for introducing white water into the vat circle throughout the width thereof to dilute stock in said circle adjacent the descending side of said cylinder mold.

2,609,733
METHOD OF MOLDING MAGNESIA INSULATION MATERIAL
Roland W. Honnig, Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application October 26, 1945, Serial No. 624,827
14 Claims. (Cl. 92—54)



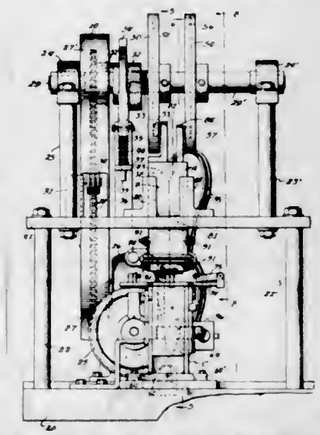
1. A method of manufacturing magnesia insulation blocks which comprises, forming an aqueous slurry comprising normal magnesium carbonate crystals and asbestos fibers, said slurry having a temperature not exceeding about 120° F., rapidly diluting and heating said slurry with hot water at a temperature and in amount sufficient to raise the temperature of the slurry to 140–180° F., maintaining the thus diluted and heated slurry quiescent for 2–30 minutes to develop therein voluminous flocks of lightly bonded interlaced crystals and fibers, partially dewatering and molding the wet solids content of said flocculent slurry under pressure, and developing a shape retaining set of the block by heating.

2,609,734
MACHINE FOR VALVING BAG BLANKS
Gérard Bardet, Paris, France, assignor to Société Anonyme dite: Machines Automatiques, Bardet, Paris, France
Application September 16, 1947, Serial No. 774,301
In France September 29, 1946
11 Claims. (Cl. 93—8)



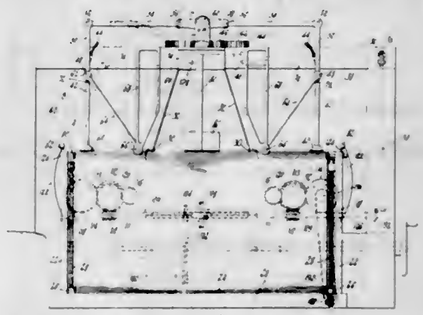
1. A machine for the manufacture of paper bags of the "Bates" type from blanks in the form of flattened tubes not closed at their ends, comprising a rotary cylinder turning about a horizontal axis actuated with a continuous rotary movement, a series of flat tables mounted on said cylinder according to the faces of a uniform prism having the same axis as said cylinder, means for bringing the blanks on said tables to a fixed point of their circular course, the opened ends of said blanks being directed towards the opposite sides of the cylinder, gripping and folding devices mounted on said tables and arranged to form closing folds on the ends of the bag blanks during a part of their circular course, a device located at a fixed point outside the rotary cylinder and operative to place a valve comprising a section of flattened paper tube, on an end of each bag blank during its passing said fixed point where the closing of such end is still incomplete, means for gumming the ends of the incompletely closed blank, means to finish the folding of the ends of the blank and to press the parts finally folded against each other, the sleeve thus being fixed in an end of the closed bag in such a position that it makes the inside of said bag connect with the exterior, and means to discharge finished bags outside the tables of the cylinder at a point of their circular course near to the point where the blanks are loaded on said tables, said gumming, pressing and discharging means being located at fixed points outside of the rotary cylinder and being driven in timed relation to the rotation of the cylinder.

2,609,735
APPARATUS FOR SEALING CONTAINERS
Robert A. Farrell, Menasha, and William G. Mueller, Neenah, Wis., assignors to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin
Application July 18, 1947, Serial No. 761,968
7 Claims. (Cl. 93—39.1)



1. A machine for making a leakproof package comprising means for positioning a tubular carton having end flaps with the flaps in a plane substantially at a right angle with respect to the main carton body and a membrane covering the carton end with the margins thereof overlapping portions of said flaps, a heated tubular sleeve having its inside dimensions substantially the same as the carton end, a member disposed and guided within said sleeve, heated blades mounted on said member for limited movement in a plane substantially at a right angle with respect to the main carton body and having a combined surface area less than the area of said carton end and of substantially the same contour, cam means operatively connected to said sleeve and said member for imparting movement to said sleeve and to said member and for imparting movement to said sleeve with respect to said member in timed relation, and means mounted on said sleeve and on said blades for imparting said movement to said blades when the sleeve moves relative to the member whereby the membrane is molded within the carton end.

2,609,736
MACHINE FOR FOLDING PAPER BOX BLANKS ON A STACK THEREOF
Hugh E. Montgomery, Jacksonville, Fla.
Application June 3, 1948, Serial No. 30,847
6 Claims. (Cl. 93—49)

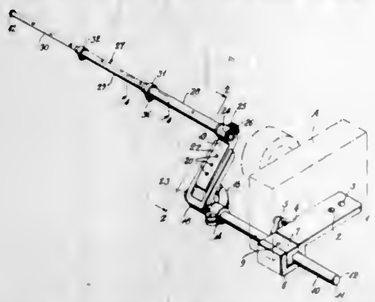


3. A machine of the class described, comprising a magazine for holding a stack of elongated paper box blanks, the end portions of which are to be folded over the mid-portions, hold-down means engaging the mid-portion of the topmost blank in the stack, a suction cup movable to engage each end portion of the topmost blank, a supporting frame for each said cup operable to lift the cup from a position upon the adjacent end portion of the top blank through an arcuate path approximately concentric with the axis of fold of the said end portion of the blank to elevate said end portion to an inclined position with reference to the plane of the mid-portion, said frame being further operable to swing the cup outward to clear the corresponding end of the blank so as not to interfere with the completion of the folding of the end portions, means for actuating said supporting frames to cause the cups carried thereby to describe said arcuate paths and perform said outward swings in a predetermined time relation.

2,609,737
CAMERA FOCUSING DEVICE
Edward D. Markle, Jefferson City, Mo.
Application March 29, 1949, Serial No. 84,061
6 Claims. (Cl. 95—11)

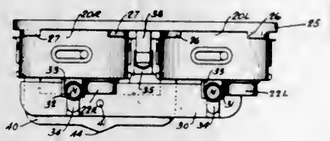
5. A camera focusing device comprising: a supporting base for a camera, a bar extending forwardly from said base, a bracket of adjustable length having one end pivotally mounted on said bar, a focal pointer secured to the free end of said bracket and extending forwardly therefrom, a member removably attachable to said camera and having a portion thereof coinciding with the optical axis of said camera, adjustable stop means for holding said bracket in relation to said bar to permit the rearward end of said focal pointer to engage said portion of said member in such manner that the longitudinal axis of said focal pointer coincides with the optical axis of a

camera mounted on said base, said bracket and said focal pointer carried thereby being free to



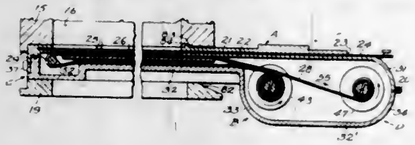
move as a unit to a position out of the objective field of said camera.

2,609,738
CAMERA HOLDER
Ralph H. Staehlin and Mary C. Wuebben, Dayton, Ohio
Application March 29, 1950, Serial No. 152,602
7 Claims. (Cl. 95—18)



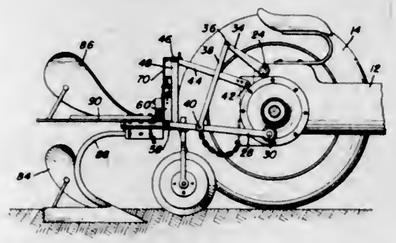
1. In a device of the character described, the combination with a base upon which two identical cameras are placed and held in predetermined relative positions; of a beam contoured to fit over the top of both cameras and engage them; cooperating interlocking ball and spring socket means on the beam and base respectively, said means being operative, removably to secure the beam to base for clamping the cameras in position on said base; and a lever movably attached to the beam by means of a pin on the beam extending through an elongated slot in the lever, the lever having portions engaging similar operating elements on said cameras, said lever being operative in parallelism with the beam or tiltably either to actuate the operating elements of both cameras respectively simultaneously or individually as desired.

2,609,739
ROLL FILM HOLDER FOR PRESS TYPE CAMERAS
Lysle G. Tatro, Los Angeles, Calif.
Application August 27, 1949, Serial No. 112,681
8 Claims. (Cl. 95—34)



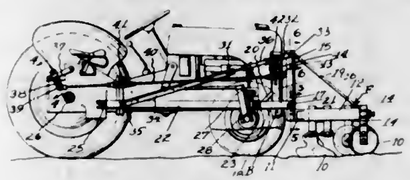
6. In a roll film holder for a press type camera, a housing having at one end a shallow portion for insertion into the camera and at its other end a deeper portion for enclosing a pair of film spools, a winding spindle for one of said spools, trunnions for the other spool, said spindle and trunnions being rotatably mounted in said deeper portion on axes transverse to and spaced longitudinally of said housing, a platen around which the film travels from one spool to the other, said platen providing a bearing surface for supporting a section of film in a position for exposure, said deeper housing portion being offset rearwardly from said shallow portion and said trunnions and winding spindle having their axes disposed in a plane offset rearwardly from the plane of said platen, the film passing from the platen to the remote spool, bearing against the film on the near spool and applying a braking action upon said near spool to restrain coasting thereof.

2,609,740
REVERSIBLE TRACTOR PLOW
Walter A. Dexheimer, Jr., and Harold N. Pullen, Fort Morgan, Colo.
Application January 10, 1946, Serial No. 640,159
2 Claims. (Cl. 97—26)



1. A reversible plow comprising a frame having a horizontal transverse bar and a vertically extending segment bar mounted thereon, a longitudinal shaft rigidly secured at one of its end centrally to said transverse bar, a sleeve journaled on said shaft, an elongated V-shaped plate secured centrally along its length upon said sleeve, a pair of plows having plow beams, means for adjustably retaining each plow beam on each arm of said V-shaped plate, a pair of keepers, means for securing said keepers in spaced circumferentially adjusted positions on said segment bar, a housing secured to said V-shaped plate, a vertically extending operating lever pivoted in said housing, resilient means urging said lever towards said segment bar and into engagement with one of said keepers, and means for adjustably hitching the ends of said transverse bar to a prime mover, one of said plows being retained in a position elevated from the ground while the other plow is automatically retained in a ground-engaging position when said operating lever is selectively engaged in one of said keepers.

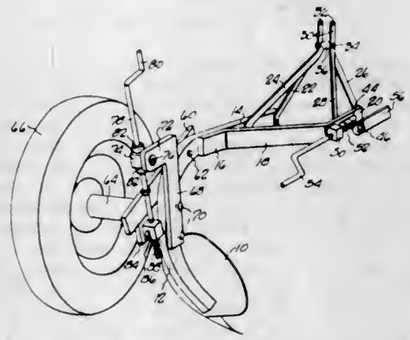
2,609,741
CULTIVATOR ATTACHMENT FOR TRACTORS
Ernest Evenson, East Grand Forks, Minn.
Application August 30, 1948, Serial No. 46,855
1 Claim. (Cl. 97—47)



A cultivator attachment for tractors, comprising a tool supporting frame positioned forwardly

of the front end of the tractor, bars extending horizontally at opposite sides of the tractor and having pivot connections at their rear ends with the tractor frame, brackets carried by the tractor frame for supporting the forward end portions of said bars, transversely spaced vertical members carried by said tool frame, brace members having pivot connections with said bars adjacent the rear ends thereof and with the upper ends of said vertical members, inverted T-shaped levers having the lower portion thereof extending between and pivotally connecting the forward ends of said bars with the lower ends of said vertical members, and means extending rearwardly from vertical portions of said levers for affecting the adjustment of said tool frame and the tools carried thereby relatively to the ground.

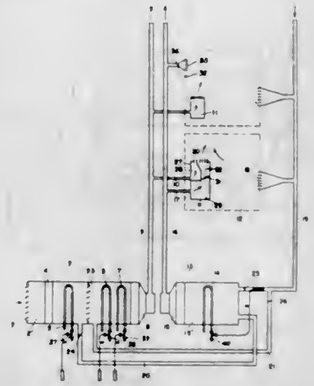
2,609,742
PLOW
Jabez A. Love, Eau Claire, Mich.
Application October 25, 1946, Serial No. 705,656
4 Claims. (Cl. 97—47)



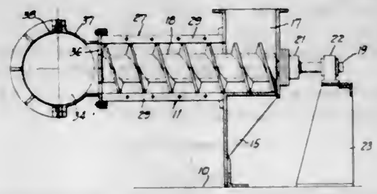
1. In a plow adapted for attachment to an implement hitch having a pair of laterally spaced hitch arms, a rigid blade-carrying frame including a pair of laterally spaced longitudinal members, one of said members having a longitudinal slot adjacent its front end, a rigid attachment member adapted for connection to one hitch arm and extending transversely through and slidable in said slot, means for anchoring said member in selected position longitudinally in said slot, and a pair of attachment members secured in vertically spaced relation to the other frame member and adapted selectively for attachment to the other hitch arm.

2,609,743
DUAL DUCT AIR CONDITIONING SYSTEM
Carlyle M. Ashley, Fayetteville, and William L. McGrath, Syracuse, N. Y., assignors to Carrier Corporation, Newark, N. J., a corporation of Delaware
Application January 16, 1947, Serial No. 722,322
14 Claims. (Cl. 98—33)

1. In the method of air conditioning a building structure containing a plurality of enclosed areas, the steps which consist in under summer operating conditions cooling fresh air to a desired temperature to form a source of primary air, supplying a substantially constant volume of the primary air from said source to each area to be conditioned to compensate for transmission gains and ventilation requirements in that area, providing a supply of cooled, secondary air at a central station, connecting the supply of cooled secondary air to the areas to be conditioned to supply a volume of cooled secondary air to said areas, and varying the volume of cooled secondary air supplied in each area in accordance with the internal and solar heat factors present therein.

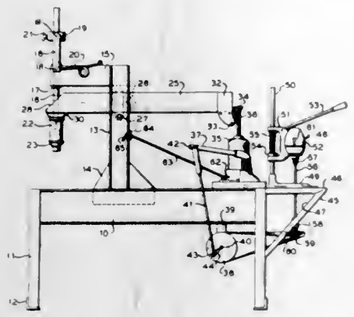


2,609,744
PRESS CONSTRUCTION
Carl A. Rietz, San Francisco, Calif., assignor to Rietz Manufacturing Co., San Francisco, Calif., a corporation of California
Application September 30, 1946, Serial No. 700,228
2 Claims. (Cl. 100—148)



1. In a press construction for the handling of a feed of slurry consistency, a feed screw adapted to be rotated, a cylindrical shaped screen surrounding the screw and providing a cylindrical space for accommodating the screw, means for supplying slurry-like feed material to one end of the screw whereby such material is advanced along the screw with a part of its liquid content passing through the screen, a second screw disposed at right angles to the first screw and having its one end positioned to receive material from the discharge end of the first screw, a screen surrounding the second screw, means at the discharge end of the second screw for enabling the discharge of press cake, the last named screen at the feed end of the second screw being in substantially unobstructed communication with the discharge end of the first screen, and means for driving both the first and second screws, the rate of drive of the first screw being of the order of 90 R. P. M. or more for a screw 6 inches in diameter and having a pitch of from 3 to 6 inches, and the rate of drive for the second screw being relatively slow compared to the first screw, whereby centrifugal force aids delivery of liquid through the screen surrounding the first screw while the second screw removes liquid by compression.

2,609,745
MACHINE PRESS
Robert M. Cook, Tuscumbia, Ala.
Application May 14, 1946, Serial No. 669,692
7 Claims. (Cl. 100—266)



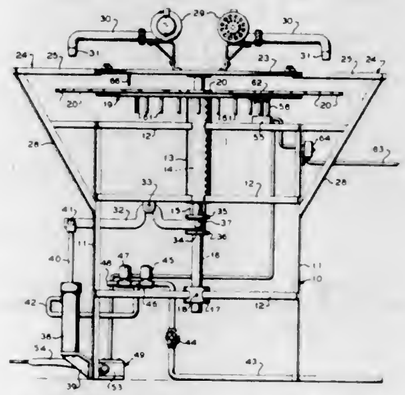
1. A machine press comprising a base; an upright standard secured at its lower end to said base; a lever fulcrumed intermediate its ends on said standard; a generally horizontal arm secured to the top of said standard and extending along said lever substantially to the corresponding end thereof; a substantially vertical shaft slidably supported in the outer end of said arm and extending past the corresponding end of said lever; a collar on said shaft below said lever; pressure pads on said lever contacting the top of said collar; a press head detachably secured to the lower end of said collar; a jack on said support adjacent the opposite end of said lever; a saddle on said opposite end portion of the lever operatively connecting the lever with the jack; a pulley supported on said base and operatively connected with said jack; and a motor driven machine associated with said base adjacent said pulley and drivingly connected with said pulley whereby operation of said motor will operate said jack and said vertical shaft.

2,609,746
TICKET PRINTING AND ISSUING MACHINE
Reuben H. Helsel, Long Island City, N. Y., assignor to General Register Corporation, Long Island City, N. Y., a corporation of New York
Application July 3, 1947, Serial No. 758,811
26 Claims. (Cl. 101—68)



2. A ticket issuing machine comprising means for advancing a ticket strip during a single complete cycle of operation through a distance corresponding to the length of a plurality of coupon areas thereon to issue a ticket having such areas, said coupon areas being issued in a corresponding series of sub-cycles of operation included in said complete cycle, means controlled by the size of a slug insertible in the machine to determine the number of sub-cycles of the machine performed during a complete cycle, the number of sub-cycles being variable with the size of the slug, means for severing the ticket strip, and means controlled by the slug for effecting severing action of said severing means only upon issue of the last coupon of a series constituting a ticket.

2,609,747
DESIGN DYEING APPARATUS
Shepard B. Schwartz and Robert D. Blum, Jr., Nashville, Tenn., assignors to May Hosiery Mills, Nashville, Tenn., a corporation of Tennessee
Application November 26, 1947, Serial No. 788,185
9 Claims. (Cl. 101—115)

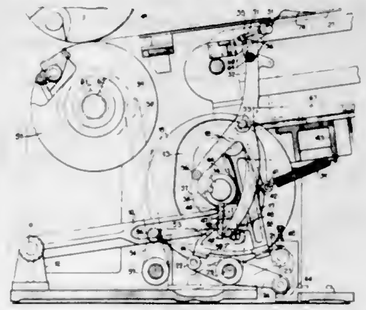


1. Apparatus for design dyeing of fabric articles comprising in combination a frame, a horizontal table rotatably and slidably mounted on said frame, article receiving boards secured to said table and extending radially therefrom, means on said boards to facilitate the positioning of articles thereon at the proper location, a plurality of dye applying means supported above said boards, said dye applying means comprising a rectangular frame, a screen secured to the lower surface of said frame, said screen being coated with a material impervious to the dye except in a portion forming the outline of the design to be applied, a squeegee disposed in said frame and contacting the upper surface of said screen whereby movement of said squeegee over said screen will force dye through the open design portion thereof, means for raising said boards and articles received thereon into engagement with the lower surface of said screen, said last named means comprising a pneumatic cylinder and piston, electric control means for said raising means comprising solenoid operated valves, a foot control therefor and limit switch means rendering said valves inoperative when said boards are improperly positioned to engage said screens, an aperture in said table corresponding to each board, a tapered pin constructed and arranged to enter said aperture upon raising of said table whereby said boards will be accurately positioned to obtain proper registration of said design on said article, and means comprising a blower and heating element constructed and arranged to direct warm air onto said design subsequent to application thereof whereby said design will be dried prior to application of another color or removal from the apparatus.

2,609,748
SHEET CONTROLLED TRIPPING MECHANISM FOR ROTARY PRINTING PRESSES
Ward E. Brigham, Jr., Rutherford, N. J., assignor to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware
Application March 31, 1949, Serial No. 84,541
3 Claims. (Cl. 101—233)

1. In a printing press having a shelf along which sheets of material are fed in successive

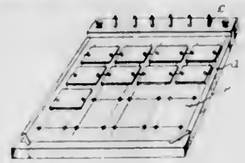
order to a pair of driven printing cylinders, a control mechanism comprising the combination of, a member mounted for pivotal movement and having a roller on one end thereof, cam driving means for angularly moving said member alternately in two directions, a finger in the path of movement of the sheets and depressible thereby from a normal position, said finger also being mounted in the path of movement of said member and engageable therewith when in its normal position for preventing movement of said member and upon the depression thereof being mounted out of said path to release the member for angular movement under the influence of the cam driving means, a driving member, a quadrant pivotally carried on said driving member and movable therewith, an arm having free ends and mounted for pivotal movement, said quadrant having spaced striking portions thereon one of which is adapted to drivingly engage one end of said arm when the finger is in its normal position with the other portion adapted to drivingly engage the other end of said arm when the finger



is depressed, both of said striking portions being spaced a fixed distance from the pivot point of said quadrant and both being movable with respect to said free ends of said arm during engagement therewith, a guideway having parallel sides mounted on said quadrant and within which said roller is adapted to move as the quadrant is moved by the driving member, said guideway being moved a predetermined distance with said quadrant by said driving member and said sides having a length at least equal to said distance and having a spacing approximately equal to the diameter of said roller, the roller and its associated guideway serving to interconnect said quadrant and said first-mentioned member whereby the quadrant may be moved angularly by said first-mentioned member to drivingly engage the ends of said arm selectively in accordance with the position of said finger, and linkage interconnecting said arm and one of the printing cylinders for moving the latter into and out of printing relationship with the other cylinder selectively in accordance with the direction of movement of the arm.

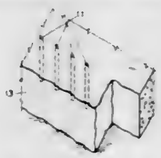
2,609,749
METHOD OF EXACT PLACING OF PRINTING PLATES, MADE OF RUBBER OR SIMILAR MATERIAL, ON PRINTING CYLINDERS OR FLAT PRINTING PLATE SUPPORTS
Edward Kreglewski, Poznan, Poland
Application March 10, 1948, Serial No. 14,118
In Poland March 18, 1947
2 Claims. (Cl. 101—401.1)

2. Method for fastening with exact register a plurality of pastable printing plates of rubber or similar elastic material onto flat printing plate supports or printing plate cylinders which do not have any clamping device for tympan sheets, which method comprises the following steps: stamping circular holes in the printing plates at the places indicated by register rings inserted in the composition; fastening the proofs of the printing plates in corresponding position on one of the tympan sheets used in this connection; placing all tympan sheets, one on top of the other, and simultaneously punching similar circular holes at the places designated by the register rings present in the proofs; placing register plugs through these holes of the tympan sheets,



on the supporting plates of which plugs adhesive tape rings provided with adhesive on both sides have previously been placed; fastening these tympan sheets to the flat plate supports or plate cylinders with the register plugs pasted on the bottom; again removing the tympan sheets by cutting out around the adhesive tape rings so that only the pasted-on register plugs remain; placing the printing plates on the register plugs in such a manner that the latter extend beyond the surface of the printing plates; and, finally, pasting the printing plates on, and removing the register plugs after lifting the edge of the printing plates.

2,609,750
PROCESS OF BLASTING
David M. McFarland, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application May 16, 1946, Serial No. 670,193
14 Claims. (Cl. 102—23)



1. A process of cooperative multiple bore hole blasting, wherein the blast is primarily detonated by electric blasting caps, which comprises detonating a row of at least three charged bore holes generally aligned so as on firing to break away a face and form a new face therebehind, the charges in the adjacent of at least three successively adjacent bore holes in said row being detonated at times separated by from 2 to 150 milliseconds and within about 300 milliseconds of the time of electrical actuation of the first firing blasting cap.

2,609,751
SAFETY BLASTING OPERATION AND BLASTING ASSEMBLY FOR USE THEREIN
James Taylor, Saltcoats, and Thomas Thomson, Kilmarnock, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application June 10, 1947, Serial No. 753,618
In Great Britain July 26, 1946
7 Claims. (Cl. 102—25)

1. An assembly of safety blasting devices each of the kind embodying a pressure resisting steel

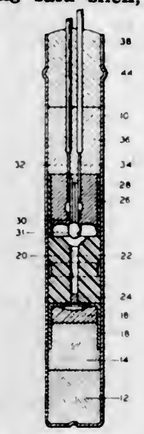
container separated from a perforated discharge head by a closure adapted to yield at a predetermined gas pressure and containing a charge of non-detonating material capable on initiation of undergoing self-sustained reaction yielding gaseous products whose emergence from said discharge head produces a blasting effect unaccompanied by flame, in which assembly the said safety blasting devices are electrically connected to permit them to be fired simultaneously and at least some of said charges of non-detonating material are each in association with a non-detonating delay electric initiator comprising a shell, containing therein a main initiating charge, a primary electric ignition element, and



a delay fuse element positioned for ignition of said main initiating charge, said delay fuse element comprising a second shell containing therein a sleeved first initiating charge, means associated with the electric ignition element for igniting said sleeved first initiating composition, and a second initiating composition positioned for ignition by said first initiating composition, said main initiating charge being separated from said primary electric ignition element by said delay fuse element in such manner that the delay fuse element must be consumed before said main initiating charge can be ignited, thereby providing a predetermined delay time interval between firing and initiating of the main non-detonating blasting charge.

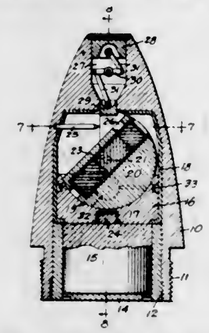
2,609,752
DELAY ELECTRIC BLASTING CAP
John E. Jeffery, Shelton, Wash., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application July 12, 1946, Serial No. 682,995
6 Claims. (Cl. 102—28)

1. A delay electric blasting cap comprising a ventless shell, a detonating explosive in said shell, a deflagrating electric ignition element in said shell, a charge of deflagrating propellent powder selected from the group consisting of black powder and smokeless powder consolidated under a pressure of at least approximately 7,000 pounds per square inch and positioned in plug-like engagement within a passageway between said detonating explosive and said ignition element, means defining an enclosed space in communication with said deflagrating propellent powder on the side thereof away from said detonating explosive, the volume of said space and the amount of said deflagrating propellent powder providing, upon burning of said ignition element and said deflagrating propellent powder, detonation of said cap between about 10 milliseconds and about 250 milliseconds of the time of firing said ignition element, a seal closing said shell, and said shell



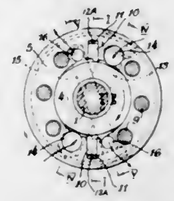
and said seal having a strength sufficient to prevent their bursting prior to the detonation of said cap.

2,609,753
FUSE FUNCTIONING MECHANISM
Herbert L. Rosenberg, Aberdeen, Md.
Application March 23, 1949, Serial No. 83,056
3 Claims. (Cl. 102—76)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a time delay fuse for projectiles comprising a hollow body having an axial bore in the nose thereof, booster means in the opposite end of said body, firing means in said body, rotor means including detonator means positioned in operable relationship to said firing means in said hollow body intermediate said nose and said opposite end, said rotor means having its center of gravity initially spaced from the axis of rotation, releasable locking means positioned within said bore comprising a pivoted bar supporting a forwardly directed lever on one end and a rearwardly directed lever on the other end, each of said levers supporting a mass normally in alignment with said axial bore, the mass supported by said rearwardly directed lever normally extending into the path of travel of said rotor and restraining the same against movement caused by centrifugal force prior to impact, said levers moving in opposite directions upon impact to release said rotor to the action of centrifugal force, said time delay being determined by the time required for the center of gravity of said rotor to travel a distance equal to a constant times the initial distance of said center of gravity relative to the axis of rotation.

2,609,754
PUMP AND MOTOR
Charles Scott Prendergast, Eashing, Richard Samuel Prendergast, Elstead, Godfrey William Beaumont Dixey, London, and Hamilton Gordon, Elstead, England
Application September 21, 1951, Serial No. 247,712
In Great Britain September 14, 1948
4 Claims. (Cl. 103—4)



1. A device of the class described comprising a casing for fluid including a series of stator chambers, a shaft extending therethrough, a series of rotors phase displaced at 90 degrees on said shaft, there being one rotor to each chamber aligned with the plane of the respective chamber, a division plate between said chambers, inlet and outlet passages for directing fluid through said casing, said division plate, and said chambers, diametrically disposed slidable abutments extending from the casing through the stator chambers to the exterior peripheral face of said rotors, said rotors having their peripheries formed on major and minor circular arcs interconnected end to end on curves which are determined by points located according to the equations:

$$R_m=\frac{R+r}{2}$$

$$R_L=R-\frac{R-R_m}{\left(\frac{90-A}{2L}\right)^2}$$

$$r_L=r+\frac{R-R_m}{\left(\frac{90-A}{2L}\right)^2}$$

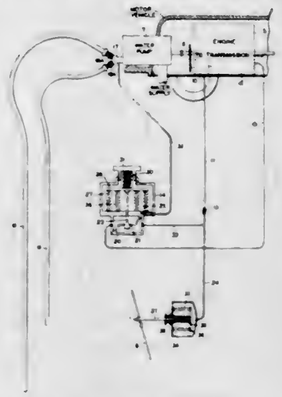
$$R+r=R_L+r_L$$

wherein

A=Angular length of each circular arc in degrees
R=Radius of major circular arc
r=Radius of minor circular arc
R_m=Radius at 45 degrees to a radial line bisecting either adjacent circular arc
R_L=Radius at L degrees from end of major circular arc
r_L=Radius at L degrees from end of minor circular arc
L=Distance in degrees from end of major and minor circular arcs.

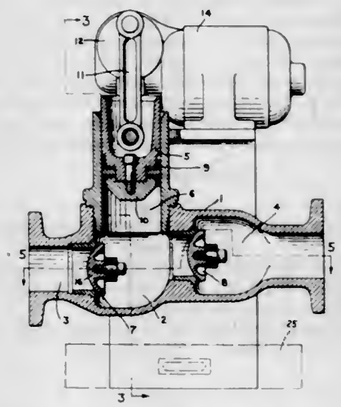
2,609,755
CONTROL SYSTEM FOR AN AUTOMOTIVE TYPE OF PUMPER
Augustus W. Griswold, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application January 10, 1948, Serial No. 1,627
5 Claims. (Cl. 103—17)

1. In combination, a motor vehicle, comprising a fuel combustion motor for propelling said vehicle, an adjustable carbureter for supplying fuel to said motor whereby the speed thereof can be controlled, a source of lubricating oil, and an oil pump individual to and driven by said motor for supplying lubricating oil under pressure from said source to said motor, a water pump on said vehicle also operated by said motor and serving to discharge water under pressure, a valve means on said vehicle loaded by the pressure of the dis-



charged water from the water pump, mechanism for adjusting said carbureter, and piping means connecting said oil from said oil pump to said mechanism under control of said valve means at a pressure which is a function of the pressure of the discharged water.

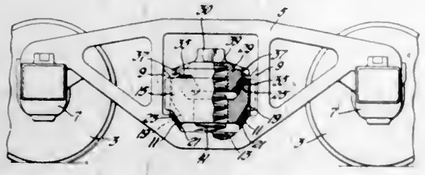
2,609,756
RECIPROCATING PUMP
Elliott F. Wright, Summit, and Arthur G. Rockwood, Nutley, N. J., assignors to Worthington Corporation, a corporation of Delaware
Application November 22, 1946, Serial No. 711,546
1 Claim. (Cl. 103—153)



In a reciprocating pump for a sewage system, a housing having a pulsation chamber therein parallel to the horizontal axis thereof, a cylinder in said housing communicating with the upper end of said pulsation chamber, a reciprocating pumping piston in said cylinder, and means for reciprocating said piston, said pulsation chamber provided with a horizontally disposed inlet passage having its longitudinal axis in axial alignment with said pulsation chamber and disposed at all points thereof above the lower portion of said pulsation chamber to form a trap in said chamber for semi-solids, said pulsation chamber provided with a discharge passage opposite said inlet passage having its longitudinal

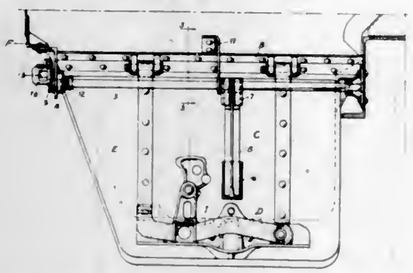
axis parallel to and above the longitudinal axis of said inlet passage at all points therealong, an inlet valve in said pulsation chamber to open and close said inlet passage responsive to movement of said pumping piston to control the flow of sewage from said inlet passage to said pulsation chamber, a discharge valve in said discharge passage to open and close said discharge passage responsive to movement of said pumping piston to control the flow of sewage from said pulsation chamber to said discharge passage, said housing provided with a first opening into said pulsation chamber and a second opening into said discharge passage, a first and a second removable closure plate to cover said openings in the housing, said inlet valve being attached to, wholly supported by and removable in assembled condition with said closure plate for the pulsation chamber, and said discharge valve attached to, wholly supported by and removable with the closure plate for said discharge passage.

2,609,757
RAILWAY TRUCK
Martin P. Blomberg, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 5, 1947, Serial No. 739,605
18 Claims. (Cl. 105—197)



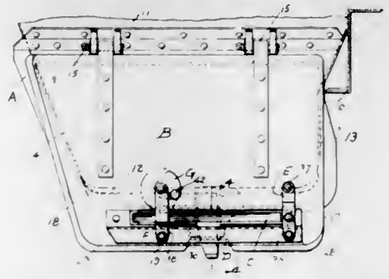
1. In a railway truck, a transverse member having opposite end surfaces inclined downwardly and inwardly toward the longitudinal and vertical axes of said member, a truck bolster having opposite end surfaces adjacent the end surfaces of said member and similarly inclined and shock absorbing cushions between said adjacent surfaces acting in shear and in compression.

2,609,758
DOOR CLOSING AND LOCKING MEANS FOR COAL CARS
Clarence J. Koranda, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application December 22, 1948, Serial No. 66,728
4 Claims. (Cl. 105—286)



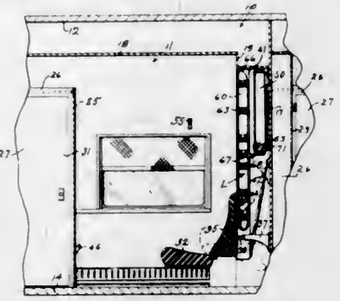
1. In a railway car having a hopper on the underside with a discharge opening, a floor inclined downwardly for directing lading to said opening, and a door for closing said opening pivoted adjacent the upper portion thereof about a horizontal axis and vertically swingable between a pendant open position and an inclined position with the swinging edge in meeting relation with said sloping floor, the combination with said door of a shaft disposed adjacent and parallel to the hinge axis of said door, an arm fast on and depending from said shaft and engaging said door, spring means biasing said shaft to move said arm in a direction to close said door and having energy stored therein when said door is opened as by lading discharging through said opening, a ratchet member fast on one end of said shaft, a pawl automatically biased into engagement with said ratchet member and adapted to engage the same when said door is swung to the open position to prevent said spring means from acting to close said door, and a socket member operatively connected to said pawl for detachably receiving an operating bar from a position to one side of said car and out of the path of movement of said door for moving said pawl out of engagement with said ratchet member to permit said spring means to close said door.

2,609,759
LATCH FOR HOPPER CAR DOORS
George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application November 9, 1948, Serial No. 59,031
3 Claims. (Cl. 105—308)



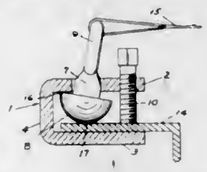
1. In a railway car having a hopper including a discharge opening and a door pivotally mounted adjacent one side of the opening for closing the latter; an improved latching means for retaining the door in closed position including interengaging means respectively carried by the door and hopper; said means carried by the door including a beam member extending along the swinging edge of the door, said beam member being of Z shape with one flange overlying the door and secured thereto and with the other flange extending downwardly and the intervening web outstanding from the door, and a latch bar disposed in the angle presented by the overlying flange and the web of the Z bar, said bar at one end having a pivotal connection with the beam and having an integrally formed depending stem extending through the web of the Z bar; guide means for said depending stem, additional guide means on each side of and spaced from said stem and cooperating with said latch bar for maintaining the same and said stem for free movement substantially in a plane so that substantially no wobbling thereof takes place when said door is slammed to closed position; and said means carried by the hopper including a keeper having an aperture disposed in alinement with the stem of the latch member and arranged to accommodate said stem to latch the door in closed position.

2,609,760
SLEEPING CAR
William E. Burnett, Arlington, Va., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application December 14, 1948, Serial No. 65,171
8 Claims. (Cl. 105—316)



1. In a sleeping car having an aisle, a room defined by an aisle wall, an outside car wall, a floor, a ceiling and spaced transverse walls extending between said aisle wall and outside wall, said room being of longer dimension longitudinally than transversely of the car, a couch seat structure secured on the floor and extending transversely of the room adjacent one of the transverse walls, a couch back structure comprising three side-by-side separate sections having cushions on the front thereof adapted to form a continuous aligned surface, said middle back section being hingedly mounted, hingedly mounted berth pan structures having the rear of the two end back sections secured to their bottom walls and of a length to extend substantially to the ceiling when in stored position, a table fixed on the rear of the middle couch back section, a ladder structure of a width and length to fill the space between the berths above the middle couch back section when in seat forming position, said ladder structure having a cover adapted to lie flush with the bottom walls of the berth pans when in stored position, and means for retaining the ladder in stored position between the berths.

2,609,761
CARGO SECURING MEANS
William H. Clark, San Mateo, Calif.
Application March 6, 1948, Serial No. 13,401
8 Claims. (Cl. 105—369)



1. An anchor for a cargo-bracing strap comprising; a generally U-shaped member providing a pair of spaced opposed legs, a clamping element on one leg of said pair having an enlarged head wholly disposed between said legs, said legs being free from each other along three sides thereof and said head being spaced from the other leg of said pair for positioning a flange of a vehicle framing member between said other leg and said head with said flange projecting from said three sides and for clamping said flange between said head and said other leg upon tilting said head to one side, an opening formed in said one leg, a shank rigid with said head swingably extending through said opening perpendicularly to said one leg and for swinging in opposite directions, said shank projecting outwardly from the side of said one leg that is opposite to said head for so tilting said head upon so swinging the projecting end of said shank and said projecting end of said shank being adapted to receive one end of a cargo-bracing strap.

2,609,762
FREIGHT CAR END CONSTRUCTION
Karl F. Nystrom, Nashotah, Wis.
Application February 4, 1946, Serial No. 645,339
4 Claims. (Cl. 105—410)

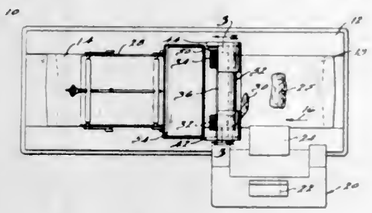


1. In a car end construction comprising an end plate; an end sill; a pair of vertically disposed beam-forming members extending continuously from the end sill to the car roof and arranged at the corners of the car and formed to provide flat outer end wall sections and flat outer side wall sections, both sections at their outer marginal edges being bent outwardly to provide reenforcing channel portions from top to bottom, the two sections being integrally united by an outwardly extending box-like corner post receiving pocket disposed obliquely at the corners of the car beyond the planes of the car side and end walls; an angular plate intimately secured to the base of said pocket and extending beyond the sides thereof; rungs secured to an extended portion of said plate and to an outwardly bent marginal portion of a beam-forming member; the beam members being secured at top to the end plate and at bottom to the end sill; a membrane sheet for the car end disposed between the opposing channel portions of the vertical beams and extending from the end sheet to the end sill with the four marginal edges of said sheet intimately secured to said end plate, end sill and said vertical beams, said sheet being flexed outwardly at its vertical median line from top to bottom beyond the normal plane of the car end wall; inner wall end boards; and a floating member secured to said end wall boards and extending from end plate to end sill within said membrane sheet coincident with its vertical median line and free of attachment thereto and to the end plate and end sill for transmitting end impacts to said sheet.

2,609,763
DEVICE FOR REMOVING MISALIGNED OR MISSHAPEN DOUGH SHEETS FROM CONVEYERS
Rufus P. Steadman, Saginaw, Mich., assignor to Baker Perkins Inc., Saginaw, Mich., a corporation of New York
Application April 19, 1949, Serial No. 88,324
5 Claims. (Cl. 107—7)

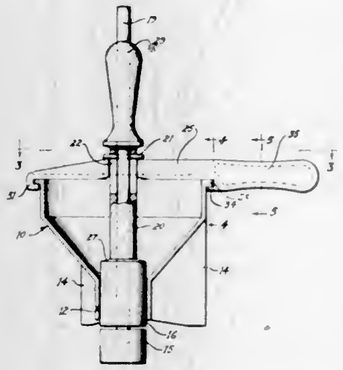
1. Apparatus for removing misaligned or misshapen dough sheets from a conveyer comprising a rotatable drum arranged above a portion of the conveyer with its rotational axis substantially parallel thereto, the periphery of the drum being spaced from the conveyor by a distance less than

the minimum thickness of the dough pieces handled by the apparatus so that the drum engages and picks up dough pieces on the mentioned portion of the conveyor, and an arcuately



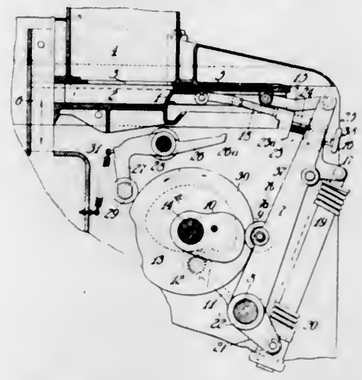
curved pressure plate spaced generally uniformly from the periphery of the drum and so located as to be engaged by the dough pieces picked up by the drum whereby the drum rolls such dough pieces along the plate for disposal.

2,609,764
PORTABLE BATTER DISPENSER
Robert F. Briggs, Los Angeles, and Raymond J. Moore, Long Beach, Calif., assignors to Eject-O-Lette Mfg. Co., Downey, Calif., a corporation of California
Application August 22, 1947, Serial No. 770,064
8 Claims. (Cl. 107—14)



1. In a portable batter dispenser, the combination comprising: a bowl adapted to receive and hold a quantity of batter and having a bottom spout for discharge of the batter, a rod having on its lower end a valve movable into and out of the spout to close and open the spout; a sleeve mounted on the rod for free sliding movement and having on its lower end an ejector member movable into and out of the spout; a cross bar extending across the bowl and having a guide portion adapted to guide said sleeve; and means limiting the relative longitudinal movement of the rod and sleeve and engageable with the cross bar to limit the relative downward movement of the rod and sleeve; said sleeve having a shoulder engageable with the cross bar to limit its upward movement and an integrally formed handle portion above the shoulder for manual manipulation of the sleeve; said valve being initially forced downward with and ahead of the descending ejector by the batter trapped in the spout between the valve and ejector.

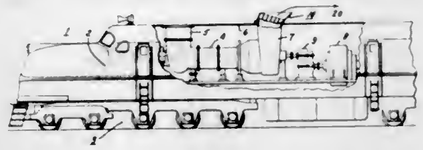
2,609,765
DOUGH DIVIDER
John Edward Pointon, Peterborough, England, assignor to Baker Perkins Incorporated, Saginaw, Mich.
Application May 18, 1948, Serial No. 27,746
In Great Britain June 6, 1947
3 Claims. (Cl. 107—15)



1. A dough dividing machine comprising in combination: a frame; a cam and means rotatably supporting said cam on said frame; a ram and means reciprocably mounting said ram on said frame; an operating lever and means pivotally mounting said lever on said frame; means cooperating with said cam for effecting pivotal motion of said lever upon rotation of said cam; means including resilient yieldable means, comprising energy storage means, connecting a portion of said lever remote from its point of pivotal mounting to said cam and an abutment member movable with said yieldable means; a stop member and means movably mounting said stop member on said frame in the path of motion of said abutment member; another cam and means rotatably mounting same onto said frame and means responsive to rotation of said last named cam for retracting said stop member out of the path of said abutment member; said cams being so shaped and so related to each other that said first named cam will effect pivotal movement of said operating lever toward said stop member and said abutment will engage said stop member, and said cam will then effect continued movement of said lever for effecting energy storage in said resilient member, after which said second cam will effect withdrawal of said stop member out of engagement with said abutment member; whereby the energy stored within said resilient member will effect a continuation of the motion of said ram member without further movement of said operating lever.

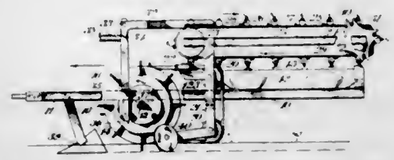
2,609,766
LOCOMOTIVE EXHAUST DEFLECTOR
Bruce O. Buckland, Schenectady, N. Y., and Arthur H. Morey, Erie, Pa., assignors to General Electric Company, a corporation of New York
Application July 26, 1951, Serial No. 238,718
2 Claims. (Cl. 110—184)

1. In a self-propelled vehicle having a gas turbine-electric power plant arranged in the body thereof and having an exhaust outlet means extending upward through the roof of said body, an exhaust deflector arranged on the end of said exhaust outlet and having said deflector's upper surface substantially horizontal, said exhaust deflector having front and rear walls sloping rearwardly at approximately 45° to the vertical, said exhaust deflector having a plurality of curved turning blades positioned therein, said blades be-



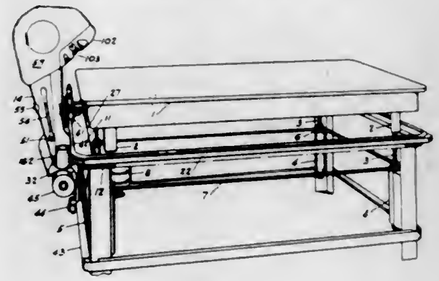
ing curved rearwardly and thereby arranged to deflect the exhaust of said power plant rearwardly by approximately 45°, said front wall having substantially the same curvature as said blades.

2,609,767
TRANSPLANTING MACHINE
Arthur Griffin Tapp, St. Nicholas-at-Wade, and Ernest Thomas James Tapp, Fleet, England, assignors to County Commercial Cars Limited, Fleet, England, a British company
Application July 31, 1947, Serial No. 764,980
In Great Britain May 31, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 31, 1966
1 Claim. (Cl. 111—3)



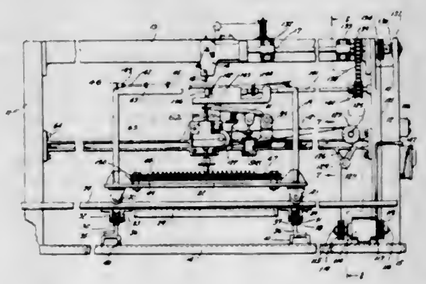
In a transplanting machine, a longitudinally extending frame adapted for forward movement over the ground, a pair of forward pulleys mounted face to face on said frame to rotate about a substantially horizontal transverse axis, upper and lower pairs of rear pulleys mounted on said frame with the pulleys of each pair arranged to rotate about substantially horizontal axes which diverge as they extend forwardly, the lowermost edges of said forward pulleys and of said lower rear pulleys being arranged adjacent the ground in the same generally horizontal plane, the uppermost edges of said forward pulleys and of said upper rear pulleys being arranged in the same general plane, a pair of endless belts each passing around a forward pulley and a lower rear pulley and an upper rear pulley to provide upper and lower stretches of belts, the pulleys of each pair being spaced apart transversely, said belts being arranged to project beyond the inner edges of said forward pulleys into contact with each other to grip plants therebetween, a pair of intermediate pulleys mounted on said frame to rotate about substantially upright axes and engaging the upper stretches of said belts to converge said belts into plant-gripping contact, and means to rotate said forward pulleys with forward movement of said frame to move said upper stretches forwardly and said lower stretches rearwardly; whereby to provide an upper point where the belts converge to receive a plant, a stretch where the belts are in contact to carry the plant around the forward pulleys, and a point near the ground where the belts diverge to release the plant.

2,609,768
EDGE ROLL FORMING AND SEWING MACHINE
James A. Cash, Louisville, and James A. Cash, Jr., Jefferson County, Ky., assignors to James Cash Machine Co., Louisville, Ky., a corporation of Kentucky
Application November 17, 1947, Serial No. 786,364
33 Claims. (Cl. 112—3)



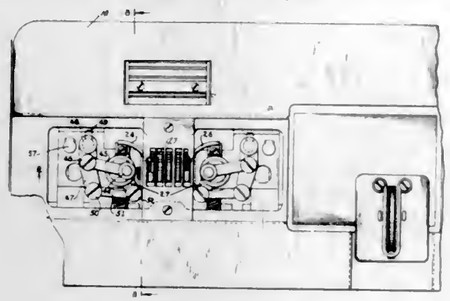
1. In an apparatus of the character described, the combination of: sewing means intermittently engaging an article to pass a needle into said article; a supporting carriage for said sewing means; means for continuously advancing said carriage; means providing relative movement between said carriage and sewing means to allow said sewing means to remain substantially stationary in contact with said article while said support is advancing, and means for periodically advancing said sewing means relative to said carriage while out of engagement with said article for successive operations on said article.

2,609,769
AUTOMATIC PATTERN CONTROL FOR SEWING MACHINES
Augustus Kramer, Brooklyn, and Jack Kramer, Ozone Park, N. Y., assignors to Kaybe Manufacturing Company, Brooklyn, N. Y., a copartnership
Application March 27, 1948, Serial No. 17,504
21 Claims. (Cl. 112—118)



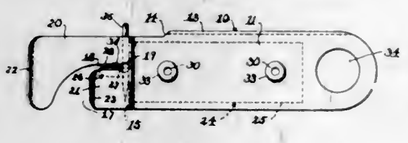
1. A pattern for guiding fabric objects under a sewing machine comprising two plates, the upper plate having a plurality of design slots cut therethru, a plurality of pins passing thru the upper plate, parallel to one edge of each of said design slots, a clear gap being provided between the exposed sections of adjacent pins, means connecting the sections of the upper plate to the lower plate, means attaching the pins to one of said plates, and means separating the sections of the upper plate from the lower plate.

2,609,770
SEWING MACHINE
Norman V. Christensen, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application September 7, 1946, Serial No. 695,426
7 Claims. (Cl. 112—202)



1. In a sewing machine having a frame with a work support provided with a drive shaft, a self-contained loop-taking unit comprising a saddle detachable from said frame, a rotary shaft in said saddle, gearing interconnecting said shafts, a loop-taker mounted on said saddle for oscillation substantially about the axis of said shaft in said saddle, and connections from said rotary shaft to said loop-taker for oscillating the same.

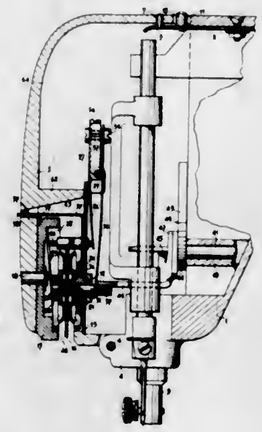
2,609,771
SEWING MACHINE NEEDLE THREADER
Frank Vogel, Philadelphia, Pa.
Application May 10, 1950, Serial No. 161,182
6 Claims. (Cl. 112—225)



1. A needle threader comprising a double side walled body member joined to a back along the rear portions of their upper edges, the forward portions of the side walls being free and spaced to provide a needle channel, said free portions having wide mouthed curvilinear openings running from the bottom edges thereof inwardly to approximately the longitudinal centers of said side walls and gradually decreasing into restricted longitudinal slots in the same plane, a needle stop at the inner end of said slot, and a hook member including a flat body portion secured between the side walls and a hook element projecting from the forward end of said body portion and extending into the channel in the region of the slots.

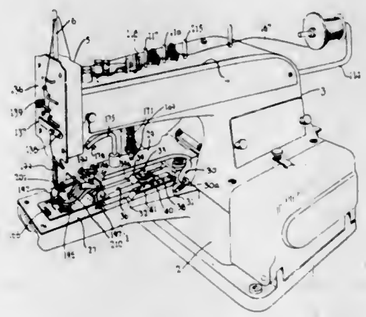
2,609,772
SEWING MACHINE
Ramon Casas-Robert, Geneva, Switzerland, assignor to Mefina S. A., Binningen, Switzerland, a corporation of Switzerland
Application March 31, 1949, Serial No. 84,607
In Switzerland December 20, 1948
17 Claims. (Cl. 112—254)

1. A sewing machine including a needle-carrying arm constituting a casing safeguarding the driving mechanism of the machine and comprising a cover constituting the fore front face of the needle-carrying arm and having an opening therein for the passage of thread, a thread tension device fastened to the inside wall of



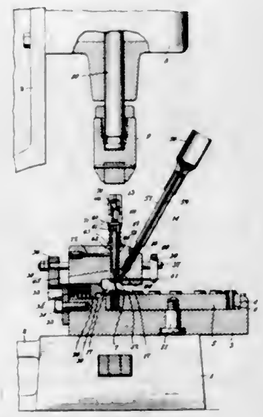
said cover, an auxiliary wall forming with said cover a space including said thread tension device and separating said latter from the inside space of the casing safeguarding the said driving mechanisms of the sewing machine.

2,609,773
THREAD HANDLING MECHANISM FOR SEWING MACHINES
George William Nelson, Cleveland, Ohio, assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine
Original application December 10, 1942, Serial No. 468,515. Divided and this application October 29, 1945, Serial No. 625,207
10 Claims. (Cl. 112—254)



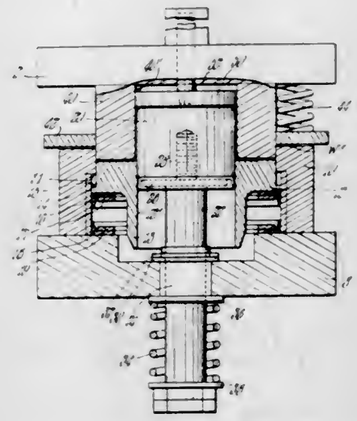
1. In a sewing machine having stitch-forming mechanism and operating mechanism therefor, thread handling mechanism comprising in combination a releasable thread tension device, means for releasing the tension device, thread clamping means between said tension device and the stitch-forming mechanism, means for drawing off thread positioned between said tension device and said thread clamping means, and means operative upon the formation of a predetermined number of stitches for actuating said tension device releasing means, said thread clamping means and said means for drawing off thread.

2,609,774
BALL STAKING MACHINE FOR PEN TIPS
Fred Ferber, Hohokus Township, Bergen County, N. J.
Application January 10, 1947, Serial No. 721,389
3 Claims. (Cl. 113—32)



1. Apparatus for confining balls in conical pen tips having concave seats comprising a rotatably mounted carrier disk having a circular row of equidistant holes therein, a bushing in each hole to receive a tip, a base supporting said carrier, a block on said base overlapping the carrier and having a space between it and the carrier, the latter being movable through said space, a plunger assembly mounted in said block adjacent said row, said assembly including a depressible guide projecting through the block and having a bore presenting an open end to the carrier, a rod fixed in the guide, the end of said bore being shaped to fit upon the tip when the guide is depressed, the rod having its end within the bore, a second plunger assembly in the block and projecting through it including a guide fixed in the block, a depressible rod in said fixed guide, a magazine adjacent said second assembly, a tubular member connecting said magazine to the block adjacent the fixed guide, a slide member at the lower end of the said member in the block and passing through the second guide, said slide having a hole therein to receive a ball and carry it into line with a bore in the fixed guide to be forced by the rod out of said bore into the seat of the pen tip, a third plunger assembly in the block opening into said space, said third assembly including a deprsesible guide having a spring pressed sleeve therein, and a rod passing through a bore in said sleeve, the lower end of the last-named bore being conical to fit over the pen tip and contract the tip while the last-named rod holds the ball in the seat, a head operable to engage all the plunger assemblies simultaneously, the assemblies being disposed at intervals according to the spaces separating said holes, means for actuating the carrier to move the bushings and tips step by step successively into line with each assembly, and spring engaged means in the block for stopping the carrier each time with the bushings in axial alinement with the plunger assemblies.

2,609,775
HYDRAULIC DIE
Richard J. Gaudreau, Longmeadow, Mass., assignor to Production Tool & Die Co., Inc., Springfield, Mass., a corporation of Massachusetts
Application June 14, 1949, Serial No. 98,918
2 Claims. (Cl. 113—46)



1. A die construction comprising in combination, a lower die-set member, an upper punch holder adapted for movements towards and away from said member, a lower outer blanking member fixed to said die-set member and extending upwardly therefrom having a piston bore for liquid therein closed at its lower end by said die-set member having an upper face and an annular shoulder around said bore and disposed downwardly from said upper face, an outer piston reciprocable up and down in the bore of the blanking member having a piston bore therethrough concentrically related to the bore of the blanking member and provided with an annular shoulder for abutment with the shoulder of the blanking member to limit upward movements thereof and having an upper face arranged for disposition in the plane of the upper face of the blanking member when in upper position, a draw member fixed to said punch holder receivable and reciprocable in the bore of blanking member for depressing the outer piston in downward movements thereof to displace liquid below said piston and provided with a bore in alignment with the bore of the outer piston, an inner piston reciprocable in the bores of the draw member and inner piston having a depending shaft reciprocable in and extending through said die-set member, spring means below said die-set member around said shaft urging said inner piston to lower position and limiting upward movements thereof, said inner piston having an upper face for disposition in the plane of the upper faces of the blanking member and inner piston when in lower position, lower portions of said outer and inner pistons being arranged whereby the bores of the blanking member and outer piston are in communication when the outer and inner pistons are in upper and lower positions respectively whereby liquid displaced by downward movement of the outer piston brings about upward movement of the inner piston, a stripper around and reciprocable on the draw member over said blanking member, and spring means between the punch holder and stripper urging the latter away from the former.

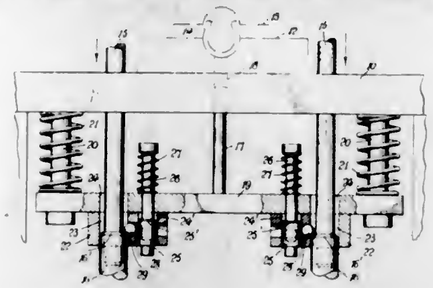
2,609,776
LOADING AND UNLOADING APPARATUS
Henry Sahlin, Birmingham, Mich.
Application February 11, 1948, Serial No. 7,643
5 Claims. (Cl. 113—50)



1. In a material handling apparatus for work adapted to be operated on in a press or machine having relatively vertically movable members, comprising supporting means adapted to be mounted at a side of the machine, a slide, guide means carried by said supporting means for guiding the slide in a vertical direction, a swinging arm depending from said slide and pivotally connected thereto for swinging motion toward and from the machine, work gripping means carried by the lower end of the arm, fluid operated means on said supporting means and connected to said slide for shifting the slide in a vertical direction, cooperating cam means on said arm and supporting means for swinging the arm, fluid operated means for operating said work gripping means, electrically controlled means for actuating both of said fluid operated means, a limit switch actuated in timed relation to the operation of the machine for actuating said electrically controlled means to operate the work gripping means and also for causing said first named fluid operated means to shift the slide upwardly, and a limit switch controlled by said slide for actuating said electrically controlled means to cause release of said gripping means and permit downward travel of the slide.

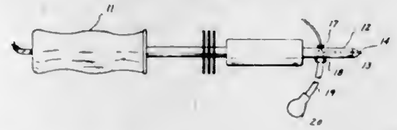
2,609,777
POSITIVE DISAPPEARING KNOCKOUT PIN MECHANISM
Dominic Maniaci, Detroit, Mich.
Application January 14, 1949, Serial No. 70,871
3 Claims. (Cl. 113—50)

3. In combination with the upper die holder and lower die shoe of a press, a kicker plate mounted in spaced relation beneath said die shoe, a work-dislodging element perpendicularly guided in said shoe and carried by said plate, means biasing said plate away from said die shoe, a reciprocal housing carried by said plate, a rod extending perpendicularly from said holder through said housing, a reciprocal stud in parallel spaced relation to said rod also extending through said housing with its upper end normally spaced relative to the under side of said die shoe, said stud being biased in the direction of said shoe, a detent guided laterally in said housing, and bevelled stop members on said rod and on said stud for alternately engaging said detent as said stud is moved against its bias by contact with said shoe or is in its normal position free of said shoe, whereby said detent is normally held in impinge-



ment with the shoulder of the stop member of said rod until released by said movement of said stud, said stop members being mounted for adjustment in the direction of the press motion.

2,609,778
SOLDERING IRON
Howard A. Bleam, Fred Singleman, and Douglas Miller, Chicago, Ill., assignors to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application June 29, 1949, Serial No. 101,956
5 Claims. (Cl. 113—105)

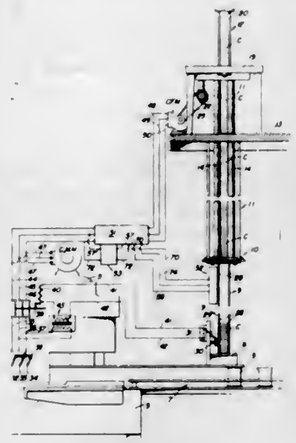


1. In a soldering iron, a tip having a point and formed to provide a passageway leading into said tip from near said point, a larger passageway intersecting said first named passageway, and a jet passageway opening into said larger passageway and substantially in line therewith, and a source of gas pressure connected to said jet passageway whereby said passages are adapted to act as an aspirator to draw air and entrained molten solder through the passageway from near said point.

2,609,779
COVER STACK HEIGHT CONTROLLING MEANS
Norman H. Goldsworthy, New York, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application March 18, 1946, Serial No. 655,346
2 Claims. (Cl. 113—114)

1. The combination with a machine in which work is to be performed on covers and the electric motor by which said machine is continuously operated under normal operating conditions, of means for feeding covers to the machine and including a cover stack supporting means and electric motor driven means for feeding covers to said stack intermittently at a rate in excess of the rate at which work is performed on the covers in said machine, cover feed motor control means effective each time the cover stack height falls to a predetermined low level to initiate cover feed motor operation and the feeding of covers to the stack to replenish the same and for continuing the cover feed motor operation until the cover

stack has been replenished to a predetermined materially higher level and stopping said cover feed motor, and means for automatically stop-

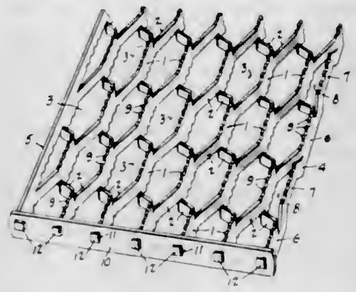


ping both motors whenever the cover stack height falls to a predetermined emergency level below the before mentioned low level.

2,609,780
METHOD OF PRODUCING METAL ARTICLES WITH HIGHLY FINISHED SURFACES FOR COATING
Roland A. Whitbeck, Lorain, Ohio, assignor to Gilron Products Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application November 1, 1949, Serial No. 124,949
13 Claims. (Cl. 113—116)

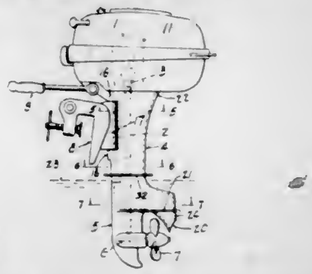
1. The method of producing, by drawing between metal dies, pressure shaped metal articles having highly polished surfaces for receiving a thin permanent high gloss decorative coating comprising: polishing the surface of metal stock, having the metallurgical properties required in the finished article, in the flat with material of which the abrasive consists of grits of at least about 200 mesh fineness to the final highly polished finish required on the final article, cleaning the surface of the stock to remove the polishing material, then coating the polished surface of the stock with a composition of completely water soluble organic lubricating material and water soluble inorganic water liberating metal salt, by applying and drying on the stock an aqueous solution of the composition to form on the stock a thin water soluble self-adherent and tenacious dry lubricating and protective coating free from abrasive and barrier material and which, during the drawing of the stock between the metal dies, is capable of lubricating and maintaining the polished surface, in the absence of the addition of other types of lubricants, in substantially the polished condition in which it existed at the completion of the polishing operation, then cold drawing the coated stock between metal dies, and washing off the residual coating material remaining on the shaped stock, whereby the polished surface of the shaped stock is substantially in the condition of smoothness in which it existed at the completion of the polishing operation.

2,609,781
METHOD OF MAKING EXPANDED METAL GRATINGS
Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 31, 1947, Serial No. 738,255
3 Claims. (Cl. 113—116)



1. The method of forming a grating from expanded metal, which comprises cutting offset longitudinal slots in flat metal sheeting and expanding the sheeting to form rows of bond portions and side bars integrally joined by strands extending therebetween, subjecting the bonds and bars to a forming operation to rectify the same to a vertical position and to provide a common tread surface thereof, and upsetting intermediate portions of the first formed bar of the grating to bring said portions into the plane of the common tread surface of the grating.

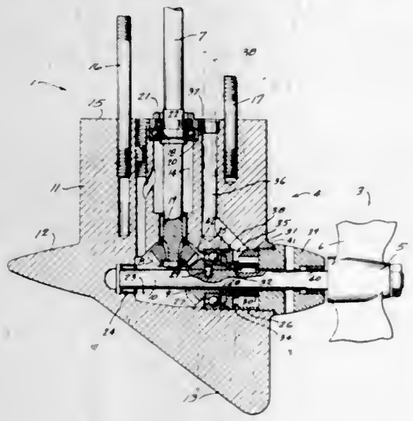
2,609,782
UNDERWATER EXHAUST AND DRIVE SHAFT HOUSING FOR OUTBOARD MOTORS
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application January 19, 1949, Serial No. 71,592
1 Claim. (Cl. 115—17)



In an outboard motor, an internal-combustion engine having a planiform lower face and a chamber opening through said lower face for discharge of the exhaust gases, an underwater propeller unit, a drive shaft connecting said engine and propeller unit, and a housing for said drive shaft comprising a unitary cast metal hollow member enclosing said shaft and rigidly supporting said engine and propeller unit, said housing having an upper end opening registering with the opening of said engine chamber to receive the exhaust gases therefrom and a discharge orifice opening under water and rearwardly into the propeller slip stream, said housing providing a passage conducting the exhaust gases for underwater discharge through said orifice under the conditions of negative pressure effected by said propeller unit, said housing member having a flared upper end portion to provide a broad

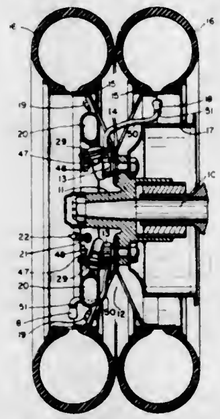
supporting platform for said engine and an enlarged chamber immediate thereto, and said housing member including a lower tapered portion having a cross-sectional open area which gradually diminishes from the enlarged chamber of said flared upper end portion downwardly to said orifice, the opening from the engine chamber into the upper flared end of said housing being smaller than the upper end of said flared portion and at least as large as the cross-sectional opening intermediate the chamber of said flared portion and the remainder of the housing to provide for substantial expansion of the exhaust gases as they pass from said engine exhaust chamber into said housing chamber and for a gradual cooling and reduction in volume of the gases as they pass downwardly through the housing to the orifice whereby the negative pressure thereon at the orifice is gradually effective upwardly of the housing and is generally free of pulsations initiated by the discharge of the exhaust gases from said engine.

2,609,783
GEAR CASE AND PROPELLER SHAFT BEARING FOR OUTBOARD MOTORS
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application May 11, 1951, Serial No. 225,813
8 Claims. (Cl. 115—17)



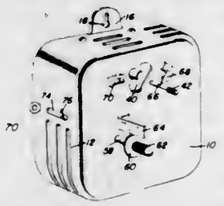
1. In an outboard motor lower unit, a gear case member having an enlarged torpedo section at the lower end of a narrower supporting strut, said member comprising a cast housing having a chamber formed therein and including a bore within the forward end of said torpedo section and a larger rear bore axially aligned with said first bore and spaced therefrom and opening rearwardly of said torpedo section, a drive shaft journally supported within said strut, a drive gear carried by said drive shaft within said chamber between said bores, a propeller shaft extending from said chamber and extending through said larger bore and rearwardly of said gear case, a driven gear fixed on said shaft in said chamber and in mesh with said drive gear, a first bearing carried by said housing in said forward bore journally supporting the forward end of said propeller shaft, a second bearing mounted within said larger bore rearwardly of said drive gear and supporting said shaft intermediate the ends thereof and said driven gear thereon, a shoulder formed within said larger bore facing the open end thereof and disposed to locate and support said second bearing against axial displacement, a closure member secured within the open end of said bore against said second bearing to secure the latter against said shoulder and to secure said driven gear and propeller shaft against axial displacement, and a third bearing carried by said closure member supporting the rear end of said propeller shaft and maintained in alignment with the alignment of said first and second bearings by said shoulder.

2,609,784
UNDERINFLATION DUAL TIRE ALARM
Clarence L. Kite, Radnor, Ind.
Application April 9, 1949, Serial No. 86,553
2 Claims. (Cl. 116—34)



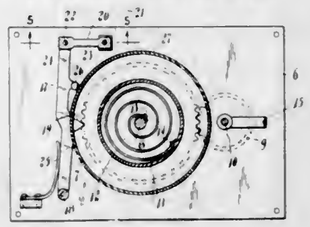
1. A multiple tire, under inflation, indicating device comprising a single pressure fluid reservoir, a plurality of warning signals, one for each tire and each operated by pressure from said reservoir, a like number of controls, one for each signal, each control being subject to reservoir pressure, a pressure chamber for each control in free communication with the associated tire and having a pressure therein equal to that tire pressure, a valve controlled air supply inlet common to the tire and the said chamber, and means in each chamber sealing the tire pressure chamber from the reservoir pressure chamber responsive to chamber and tire pressures and normally constraining said control in opposition to reservoir pressure, to prevent signal actuation until a predetermined degree of tire deflation occurs to insure reservoir pressure actuation of said control.

2,609,785
FIRE ALARM
Charles H. Fink, Midland, Tex.
Application May 5, 1950, Serial No. 160,143
3 Claims. (Cl. 116—102)



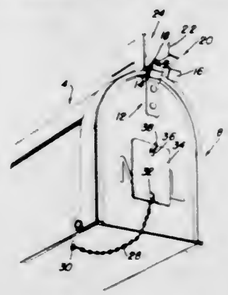
1. A fire alarm device comprising a portable casing provided with slots, a frame within said casing, signal means secured to said frame, including a movable signal producing member, spring activated means mounted on said frame for actuating said signal producing member, locking means for said signal producing member, a thermostatic bellows consisting of elastic, disk shaped plates mounted for expansion in an axial direction, a rockable trigger member controlling said locking means, a flanged guide member for journaling and rockably holding said trigger member, supported by said frame, said trigger member having a section forming an axle rockable within said guide member, a further section of said trigger member extending at an angle thereto and projecting towards the bellows and being substantially parallel to and in operative near contact with the central side portion of the disk shaped bellows so that said trigger member is rocked upon a predetermined axial expansion of the bellows, a further section of said trigger member forming an end section projecting at an angle from the first named section of the trigger member and forming a lug, and a further section of the trigger member projecting from the section parallel to the bellows beyond the frame and outwardly through one of the slots of the casing, a collar on said movable locking member, being engaged by the end section of the trigger member forming a projecting lug, an adjusting means for positioning said bellows relatively to said frame and relatively to the trigger section parallel to the disks of the bellows to keep the bellows out of contact with the trigger section until a predetermined temperature has been reached, said adjusting means including a shaft threadedly engaging said frame, said bellows being secured to the shaft at one end thereof, spring means for urging the section of said trigger member closest to the bellows into a position in which it is reached by said bellows upon a predetermined expansion thereof, indicating means operatively connected with said trigger member and projecting through one of the slots of the casing, means carried by the frame engaging said spring activating means and indicating the condition of winding of said means, said means being further provided with an indicator, projecting through one of the slots of the casing to indicate the condition of said spring activating means on the outside, a shield having indicia thereon secured to said frame and a disk carried by the shaft threadedly engaging said frame at right angles to said indicia carrying shield for indicating the adjustment of the bellows.

2,609,786
PROTECTIVE FIRE ALARM
Norbert Oliver Turner, Toronto, Ontario, Canada
Application June 23, 1950, Serial No. 169,867
6 Claims. (Cl. 116—106)



1. The combination in a fire alarm, of a support, a circular bell thereon, a rotator mounted on said support concentrically within said bell, a hammer having a flexible arm extending outwardly and circumferentially from said rotator and having a head carried by said arm and disposed in close proximity to the skirt portion of said bell, and an upright element on said support and in the path of travel of said head, said upright element having inclined contact faces meeting at a crest over which said head is caused to ride in order to strike said bell.

2,609,787
RURAL MAILBOX SIGNAL MEANS
Raymond H. Lawson, Algonquin, Ill.
Application May 18, 1951, Serial No. 227,055
2 Claims. (Cl. 116—114)

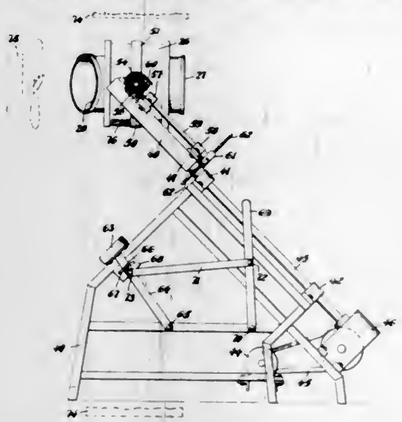


1. In a rural mailbox construction of the class described, in combination, an open ended box, a closing door for said open end, the lower end portion of said door being pivotally mounted on the bottom of said box and said door being adapted to swing outwardly and downwardly relative to said open end, a chain secured at one end to said bottom, a signalling plate secured at one end to the free end of said chain, and means for releasably mounting said plate on the exterior surface of said door embodying a suspension hook fixedly secured to a central portion of said door, said plate being positioned against the exterior of said door and having a keeper hole releasably engageable with said hook, whereby when said door is swung open, said plate automatically falls off of said hook and hangs down, by way of said chain, to a clearly discernible signalling position.

2,609,788
MECHANISM FOR COATING INTERIOR OF HOLLOW ARTICLES
Charles A. Wulf, Indianapolis, Ind., assignor to Ceramic Process Co., Indianapolis, Ind., a corporation of Delaware
Application November 30, 1950, Serial No. 198,438
8 Claims. (Cl. 118—56)

1. Mechanism for coating interiors of hollow articles, comprising a carriage mounted for oscillation about a horizontal axis, said carriage being provided with a passage therethrough formed on an axis transverse to said carriage axis, a container for fluent coating material, said container being closed except for an open mouth, means for securing said container to said carriage with its open mouth in communicating registry with one end of said passage, means on said carriage for securing to said carriage a hollow article having an opening therein, with said opening in communicating registry with the other end of said passage, a carrier journalled for rotation about its own axis, means for driving said carrier, holder means mounted on said carrier for rotation about an axis transverse with respect to the axis of rotation of said carrier, said holder means being adapted to receive and

support such hollow article with the axis of said article opening transverse to the axis of rotation of said holder means, abutment means fixed with respect to the axis of rotation of said carrier,



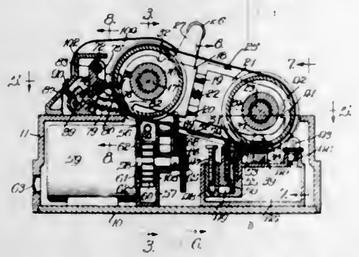
and driver means moving with said carrier and operatively connected to drive said holder means about its axis, said abutment means being positioned in the path of said driver means to actuate the latter upon rotation of said carrier.

2,609,789

APPARATUS FOR RESURFACING PLASTIC RECORD BELTS AND THE LIKE

Albert I. Kegan and Fortunato S. Ajero, Chicago, Ill., assignors, by direct and mesne assignments, to Samuel W. Kipnis as trustee for Judith Kegan, Daniel Kegan, and Franklin Kegan

Application February 1, 1950, Serial No. 141,818
8 Claims. (Cl. 118—209)



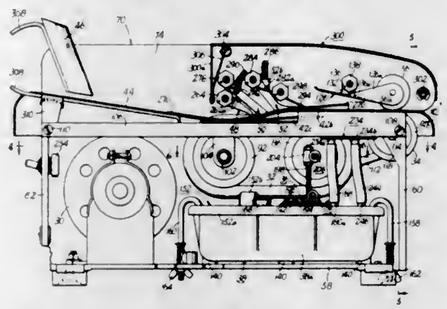
6. Apparatus for reprocessing a record belt with solvent, comprising: a first mandrel and a second mandrel, means for revolving one of said mandrels about the axis of the other between a belt loading position and a reprocessing position, means for varying the lateral spacing between said mandrels during said movement, whereby in said loading position said mandrels are moved closer together to enable looping a record belt thereover and whereby in said reprocessing position said mandrels are moved farther apart to tension said record belt thereover, a solvent reservoir, a solvent applicator communicating with said reservoir and positioned to be out of contact with said record belt in said loading position and in contact with said record belt in said reprocessing position, means releasably latching said mandrels in said reprocessing position, and means for rotating one of said mandrels at a slow rate of speed and causing said belt to be moved longitudinally about its loop to present successive areas into contactual engagement with said solvent applicator.

2,609,790

ENVELOPE SEALING MACHINE

William H. Uhl, Rochester, N. Y., assignor to Commercial Controls Corporation, Rochester, N. Y.

Application March 18, 1949, Serial No. 82,037
11 Claims. (Cl. 118—401)



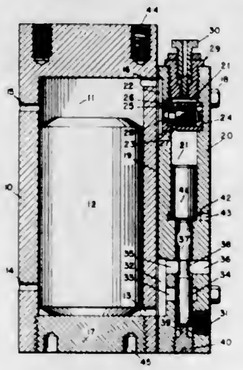
1. In a letter sealing machine, in combination, a sealer table, means forming a slit in said table to divide said table into two sections, a sealer blade mounted beneath one of said sections, a conveyor belt circular in cross section for conveying envelopes across said sealer table, means to drive said conveyor belt, a pressure foot, and means to resiliently urge said pressure foot toward said belt, the face of said pressure foot juxtaposed to said belt being curved to fit said belt, the face of said foot and said belt acting on each envelope fed through said machine to separate the flap from the envelope so that the flap passes through the slit in said sealer table and thence into contact with said sealer blade to moisten the gummed flap.

2,609,791

PNEUMATIC VIBRATOR

Walter S. Bohlman, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application December 22, 1949, Serial No. 134,528
12 Claims. (Cl. 121—26)



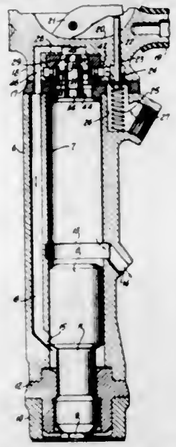
1. A pneumatic vibrator having in combination a casing forming a cylinder, a reciprocable piston disposed in the cylinder, exhaust ports located in the casing adjacent the opposite ends of the cylinder, an air inlet for pressurized air leading to one end of the cylinder, an air exit passage for air compressed by the piston leading from the opposite end of the cylinder, and a valve assembly; said valve assembly having in combination a first passageway therethrough which is in communication at one end with the air inlet in the vibrator casing and at the other end with a source of pressurized air; a second passageway therethrough, one end of which is in communication with the air exit passage in the vibrator casing and the other end of which leads to the atmosphere, said second passageway having a check valve at the end thereof which registers with the air exit passage and a metering means for air at the end thereof leading to the atmosphere; and slidable means disposed within the valve assembly which is movable in one direction to close the first passageway under the force exerted by the compressed air admitted to the second passageway through the check valve and which is movable in the opposite direction to open the first passageway under the force exerted by the pressurized air when sufficient of the compressed air is released to the atmosphere through the metering means.

2,609,792

DISTRIBUTING VALVE FOR PERCUSSIVE TOOLS

Matthew O'Farrell, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey

Application June 17, 1950, Serial No. 168,737
6 Claims. (Cl. 121—29)



1. In a pneumatic tool, a distributing valve comprising a sleeve portion and an outer portion separated therefrom, both portions being generally of cylindrical shape and being connected by a web portion the inner portion being adapted to reciprocate on a cylindrical pin, the outer portion having a cylindrical surface adapted to engage a valve chest with a lapping action and having extremities adapted to provide end seating surfaces engageable with said valve chest.

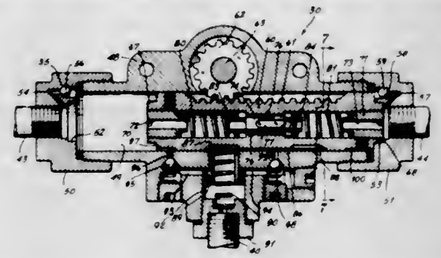
2,609,793

PRESSURE RELEASABLE LOCKING MECHANISM FOR FLUID PRESSURE PISTONS

Howard E. Rose, Brecksville, Ohio, assignor, by mesne assignments, to Alco Valve Co., St. Louis, Mo., a corporation of Missouri

Original application November 30, 1942, Serial No. 467,359. Divided and this application January 12, 1948, Serial No. 1,773
9 Claims. (Cl. 121—40)

1. In combination, a cylinder, a piston-like member movable oppositely therein, a recess in the member, a locking element movably mounted on the cylinder for engagement with the recess to lock the piston member and cylinder together, and for withdrawal from locking position, pressure-responsive means including a movable wall connected to the locking element, passage means between the pressure-receiving part of the cylinder and the movable wall to conduct



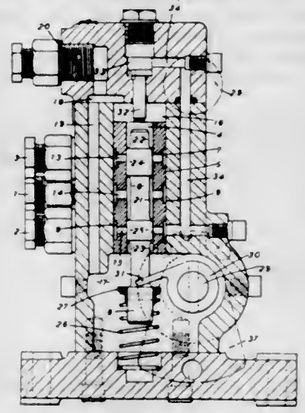
fluid pressure from the cylinder to the movable wall to move it and withdraw the locking element from the piston member, check valve means to prevent back-flow of fluid under pressure in the passage means, means providing predetermined escape for the pressure from the movable wall, and springing means acting to urge the locking element into locking position.

2,609,794

PISTON TYPE CONTROL VALVE FOR HYDRAULIC PRESSES

John Maurice Towler, Harrogate, and Frank Hathorn Towler, Otley, England, assignors to Electraulic Presses Limited, Rodley, England, a corporation of England

Application May 24, 1946, Serial No. 672,066
In Great Britain May 25, 1945
3 Claims. (Cl. 121—46.5)



1. A piston type control valve for hydraulic presses comprising a valve plunger slidable in a bore relatively to spaced openings for the pressure liquid, a transfer passage formed between the valve plunger and its bore for distributing the flow of liquid selectively between said openings, in one extreme position to admit pressure liquid to an associated press cylinder and in the opposite extreme position to open said cylinder fully to exhaust, automatically operating means adapted to urge the valve plunger to the position of full exhaust, a hydraulic ram opposing said valve plunger in the direction of its movement to the position of full exhaust, means for admitting pressure liquid direct from the

pressure cylinder to the back of said ram to hold the same in position to be contacted by the valve plunger in its movement towards and in advance of the position of full exhaust and to prevent the completion of said movement, said valve plunger acting when in said halted position to provide a restricted passage to the exhaust opening for the escape of pressure liquid from the press cylinder and from behind said hydraulic ram whereby the pressure in the press cylinder is permitted to fall to a safe level and the pressure on the ram also to fall until it can be overcome by the force urging the valve plunger to complete its movement to provide a full passage to the exhaust opening thereby to permit said movement to be completed and the press cylinder to be opened to full exhaust, manually operable means acting against said automatically operable means for effectively causing moving of the valve plunger in the direction to admit pressure liquid to the press cylinder, said manually operable means being operative on the valve plunger in the one direction only and ineffective for imparting movement to the valve plunger in the direction to open said cylinder to exhaust, although operable in a plurality of predetermined positions to restrict movement of said valve plunger in said last mentioned direction, and a spring detent associated with the manual operable means adapted to hold the valve plunger selectively in its neutral and pressure positions and having a holding force greater than that of said automatically operating means and hence requiring to be overcome by an action on the part of the operator before the valve plunger is free to move in the direction of exhaust

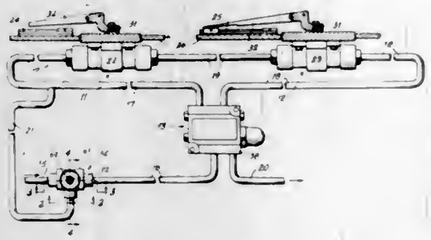
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2,609,795

WINDSHIELD WIPER SYSTEM

Rudolph Freedman, University City, and John E. Dube, Chesterfield, Mo., assignors, by mesne assignments, to Alco Valve Co., St. Louis, Mo., a corporation of Missouri

Application October 4, 1945, Serial No. 620,316
6 Claims. (Cl. 121—158)



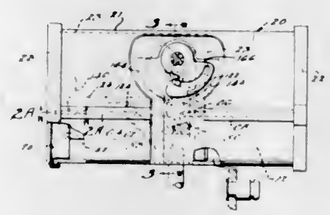
1. In a control mechanism for controlling a reversible fluid pressure-operated motor and for parking the same in a predetermined position: a reversing mechanism having a high pressure inlet passage and a low pressure outlet passage, having a first working line and a second working line for opposite connection into the motor; having valve mechanism for first connecting one working line with the high pressure inlet and the other with the low pressure outlet, and then reversing said connections, there being fluid pressure-operated reversing valve means for causing such reversal, which valve means is oppositely ported to the two working lines to be shifted when the pressure in the working lines attains a predetermined differential resulting from obstruction of flow therein as when the motor is stopped; a speed regulating valve in one of the pressure passages to the reversing mechanism, the same being a throttling valve to adjust fluid flow through such passage whereby to regulate the rate of pressure fluid flow into the working lines so that the speed of the motor may be changed; a bypass connection from the pressure passage having the throttling valve, to one of the working lines, means normally closing the bypass connection; means associated with the throttling valve to open the bypass connection when the throttling valve is moved to a predetermined throttling position, to open the bypass passage and assure adequate pressure differential to reverse the reversing valve in one direction despite throttling of the throttling valve to a condition wherein such pressure differential cannot obtain, and thereby to provide for operation of the motor to a predetermined position where it will stop.

2,609,796

STOPPING CONTROL VALVE MECHANISM FOR EXPANSIBLE CHAMBER FLUID MOTORS WITH PISTON ACTUATED DISTRIBUTING VALVE

Emil E. Sivacek, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan

Application November 23, 1944, Serial No. 564,829
10 Claims. (Cl. 121—164)



5. In a fluid motor having a cylinder and a piston therein for dividing the cylinder into a plurality of chamber spaces, closure means for said spaces including inner and outer laminations having spaced portions which define an auxiliary chamber, the inner said lamination having a port leading into the corresponding said first-mentioned chamber space, and a grommet mounted on said inner lamination and disposed within said port, said piston means being adapted to seat against said grommet at one limit of its movement and seal said port.

6. In a device of the class described, a motor having a casing including a member movable therein being subject to a fluid pressure differential, primary chamber ports located on opposite sides of said movable member, a pair of spaced stationary valve seats including a valve seat on said casing including a suction supply port and secondary chamber ports adjacent thereto, the secondary ports and the primary chamber ports leading to fluid passages, automatic valve means associated with said valve seat and controllable by the movable member for connecting the suction supply port alternately with one secondary port, and the other secondary port to the atmosphere to obtain reversal of pressure differential for the operation of said movable member, control valve mechanism associated with the other of said seats and having fluid passages forming continuations of the passages of the primary chamber ports and valve seat ports, said continuation passages leading to ports on said control valve mechanism located adjacent to a vent port in

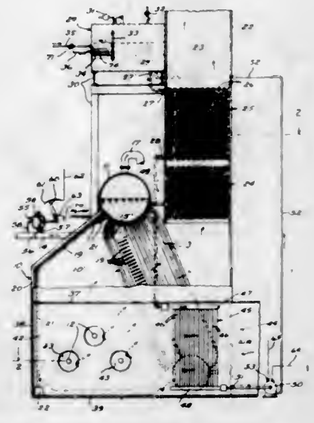
communication at all times with the atmosphere, the control valve mechanism operable in one position to connect the suction supply to the primary chamber ports through the secondary chamber ports for the operation of the movable member and in a second position to connect one of the primary chamber ports directly to the suction supply and the other primary chamber port to the vent port on the control valve mechanism to park the movable member in one position.

2,609,797

HEAT EXCHANGER

John Blizard, Garden City, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application June 9, 1948, Serial No. 31,855
7 Claims. (Cl. 122—1)



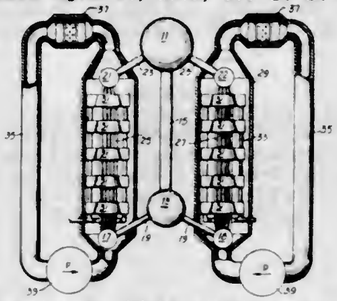
1. Heat exchange apparatus for heating a fluid by flowing said fluid and a liquid in indirect heat exchange relationship with one another, said apparatus comprising means forming a flow path for heated gases, a heat exchanger providing a liquid path of flow and positioned in indirect heat exchange relationship with heated gases passing through said gas flow path, a pressure-tight liquid reservoir so constructed and arranged that liquid therein is normally maintained under pressure, a heating coil within said reservoir below the normal liquid level therein adapted to vaporize liquid in indirect heat exchange relationship with said coil and thereby create pressure in the reservoir, means through which liquid is conducted from the reservoir into said liquid path of flow of the heat exchanger, a fluid conduit for conducting fluid to be heated, another heat exchanger providing a liquid path of flow with a liquid inlet and a liquid outlet, the other heat exchanger being positioned in indirect heat exchange relationship with fluid flowing in the fluid conduit for conducting fluid to be heated, means for conducting heated liquid from the first-mentioned heat exchanger to the inlet of the liquid path of flow of the other heat exchanger, conduit means in communication with the outlet of said other heat exchanger and with the liquid path of flow of the first-mentioned heat exchanger, circulating means associated with said last-mentioned conduit means for circulating liquid therethrough and control means associated with the heating coil and adapted to control the generation of vapor and pressure within the reservoir to maintain the liquid therein below its boiling point.

2,609,798

BOILER

Ralph C. Brierly, Narberth, Pa.

Application June 24, 1948, Serial No. 34,994
8 Claims. (Cl. 122—240)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



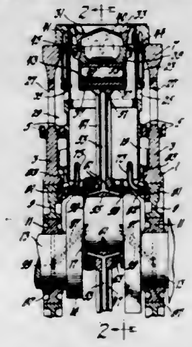
1. Apparatus for high-rate steam generation comprising a steam drum disposed horizontally, a water drum disposed parallel to and below said steam drum, a multiplicity of vertical tubes, communicating between said steam and water drums, a plurality of vertical cylindrical casings, said tubes being centrally located in said casings, a plurality of downcomers communicating between said steam and water drums and a plurality of burner rings located within said casings and encircling said tubes, said burner rings being adapted to direct combustible and oxidant under pressure upstream of the casings.

2,609,799

ENGINE COOLING AND LUBRICATING SYSTEM

William E. Brill, Cleveland, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

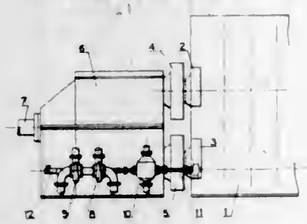
Application February 10, 1949, Serial No. 75,586
9 Claims. (Cl. 123—41.38)



5. In an internal combustion engine lubricating and cooling system, an engine frame including longitudinally aligned main bearings, cylinders disposed radially therebetween and nozzles for directing jets of lubricating and cooling oil radially into the cylinders, a piston in each cylinder including a skirt portion and a head portion extending into the skirt portion and forming a piston pin carrier, a central head cavity and surrounding groove, a piston pin supported at the ends in the piston pin carrier portion, said carrier

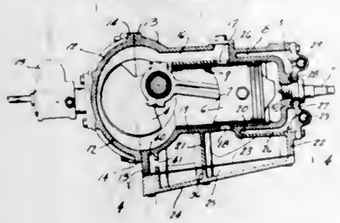
portion having oil directing passages adjacent the ends of the piston pin including converging inlet openings aligned with the oil jets from the nozzles and narrow diverging outlets for directing oil in narrow diverging oil streams across the wall of the central piston head cavity in opposite directions toward the transverse center line thereof and for directing narrow diverging oil streams onto the bottom of the groove at substantially diametrically opposite points for movement in opposite directions around the groove walls toward the transverse center line of the piston, the oil from the cavity and groove lubricating the piston pin and carrier portion of the piston.

2,609,800
AUXILIARY PUMP ARRANGEMENT FOR WATER COOLED ENGINES
Gustav Pielstick, Saint Germain en Laye, France
Application February 8, 1950, Serial No. 143,031
In France February 15, 1949
4 Claims. (Cl. 123—41.47)



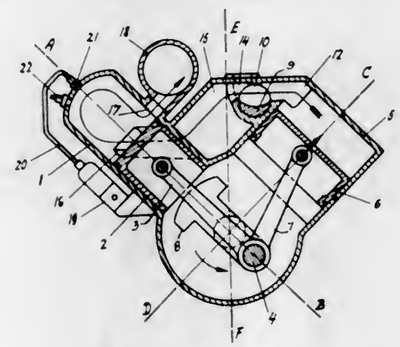
1. In a diesel plant of the type specified, a multi-crankshaft engine unit, a speed-converter gearing unit aligned with said engine unit to be driven from said crankshafts and having a casing, auxiliary pumps for said engine mounted on said gearing casing on a side thereof and cooling means associated with at least some of said pumps, said cooling means mounted on said gearing casing adjacent to the related pumps and directly connected with said pumps to be driven therefrom.

2,609,801
INTERNAL-COMBUSTION ENGINE AND COOLING SYSTEM THEREFOR
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application September 24, 1949, Serial No. 117,674
8 Claims. (Cl. 123—41.72)



5. In an internal combustion engine, a cylinder block having a number of cylinders arranged in-line and opening into an exhaust chamber formed in the side of said block and a coolant cavity formed in said block surrounding the domes of the cylinders, means closing said chamber and defining a second coolant cavity adjacent said chamber, passages providing communication between the upper ends of said cavities, a discharge passage from said last named cavity, and a cover closing said first named cavity having a conduit opening into said first named cavity in a direction toward the upper end of each of said cylinders, said conduit being adapted to receive and introduce water coolant against the domes of said cylinders and thereafter circulate said coolant through said first and second cavity under pressure.

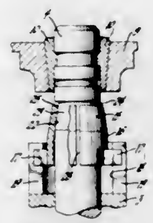
2,609,802
TWO-STROKE CYCLE INTERNAL-COMBUSTION ENGINE
Adolf Schnürle and Otto Elwert, Stuttgart, Germany; said Elwert assignor to said Schnürle; Gertrud Schnürle, administratrix of said Adolf Schnürle, deceased
Application April 5, 1949, Serial No. 85,493
In Germany October 1, 1948
7 Claims. (Cl. 123—72)



1. In a two stroke cycle V type engine with several air scavenged engine cylinders in one bank the following combination: a bank of pump cylinders, the piston of each pump cylinder being connected to the crank pin of an engine cylinder; the axes of the engine and pump cylinders intersecting in the axis of the crankshaft and forming a 90° angle relative to one another; a cylindrical rotary valve mounted parallel to the crankshaft and extending alongside the pump cylinder bank, said rotary valve governing the admittance of air into the pump cylinders as well as the discharge of compressed scavenging air from the pump cylinders; the engine crankshaft rotating in such a direction that the pump piston is on its upstroke when the engine piston, to the crank pin of which it is connected, is in its scavenging position, so that each pump piston supplies scavenging air either through an individual passage or straight across the common receiver to the engine cylinder, to the crank pin of which it is connected.

2,609,803
VALVE ROTATING DEVICE
Robert T. Doughty, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 24, 1949, Serial No. 134,897
9 Claims. (Cl. 123—90)

1. In an internal combustion engine having a poppet-type valve means including a valve stem and a valve spring retainer washer fixed to the stem, stationary guide means for the stem accommodating rotation and reciprocation of the valve means, a spring in abutment with the washer and biasing the valve means longitudinally of the guide means, and a valve operator engageable with the stem to move the valve means longitudinally against the biasing force of the spring, the combination therewith of a member for rotating the valve means during its longitudinal movement in one direction, said member having a lost motion connection with the valve means accommodating a predetermined longitudinal movement of the valve means relative to the member, said connection being formed in part by coacting conical clutch surfaces on the member and valve means effective when engaged both to limit longitudinal movement of the valve means in one direction relative to the member and to rotatively lock the valve means and member together, said clutch faces terminating at one of their corresponding ends with coacting abut-



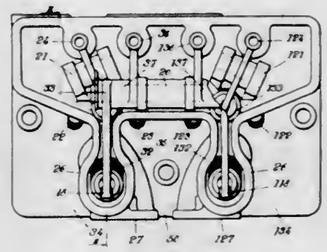
ments limiting longitudinal movement of the valve means in the opposite direction relative to the member, said member having also a helical interengagement with the guide means effective with their relative movement longitudinally of the guide means in either direction to both rotate the member and apply a reactive force thereto longitudinally of the valve means, said reactive force serving to hold the clutch surfaces in engagement during longitudinal movement of the valve means in the direction urged by the spring and to hold the clutch surfaces out of engagement during longitudinal movement of the valve means in the opposite direction by the valve operator.

2,609,804
VALVE ROTATING DEVICE
Robert T. Doughty, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 31, 1949, Serial No. 136,287
11 Claims. (Cl. 123—90)



1. In an internal combustion engine having a poppet valve having a stem slidably and rotatably supported in a stationary guide and operatively connected to means for reciprocating the valve, the combination therewith of means for rotating the valve during reciprocation including an annular member adapted to journal on the guide and having a helical connection with the valve stem, means on the guide and member accommodating a predetermined longitudinal movement of the member relative to the guide in response to thrust transmitted to the member by the valve, said last named means including coacting clutch surfaces on the guide and member for holding the member against rotation when the member is thrust in one longitudinal direction by the valve.

2,609,805
CYLINDER HEAD FOR INTERNAL-COMBUSTION ENGINES
Enrico Pateras Pescara, Cap d'Antibes, France
Application August 1, 1947, Serial No. 765,566
In Spain June 10, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires June 10, 1963
9 Claims. (Cl. 123—90)

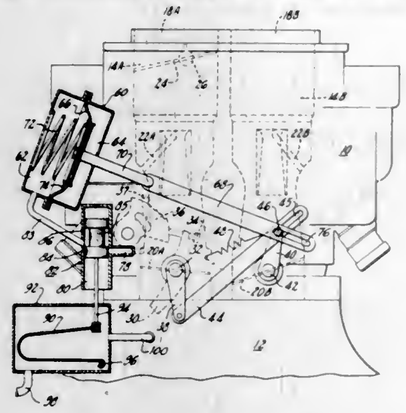


8. In an internal combustion engine including a block of at least two cylinders in line, a cylinder head forming a combustion chamber for each of said cylinders, the top walls of each of said chambers being provided with an inlet valve seat and an exhaust valve seat, an inlet valve and an exhaust valve adapted to cooperate with said seats, respectively, the stems of said two valves being located in a plane perpendicular to the plane of the axes of said cylinders and at least one of these two stems being inclined with respect to the axis of the corresponding cylinder, inlet and exhaust pipes leading to said seats, respectively, rocker arm means located above said cylinder head for operating said valves, means located wholly on one side of the plane passing through the axes of said cylinders for driving said rocker arm means, a cover for protecting said rocker arm means carried by said cylinder head extending exclusively over the portion thereof corresponding to said valves, said rocker arm means and said driving means, the non-covered portions of said cylinder head being of lower height than the portion thereof fitted with said cover and extending as far as one side wall of said cylinder block, and at least one ignition plug mounted in said non-covered portions of the cylinder head and opening into said combustion chamber near the center thereof.

2,609,806
CARBURETOR
Albert H. Winkler, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 7, 1950, Serial No. 148,197
19 Claims. (Cl. 123—127)

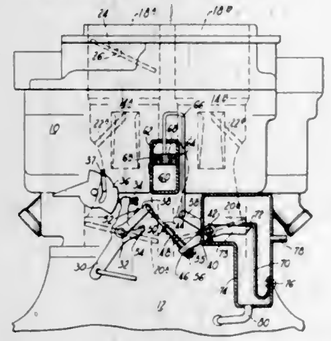
1. A carburetor for an internal combustion engine composing a primary induction passage having a throttle therein, a secondary induction passage having a throttle therein urged in the opening direction, a linkage between said throttles for limiting the opening movement of said secondary throttle in accordance with the position of the primary throttle, and a means re-

sponsive to a depression in pressure in said primary induction passage for limiting only the



opening movement of said secondary throttle in accordance with the degree of said depression.

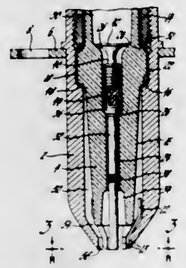
2,609,807
CARBURETOR
Albert H. Winkler, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 7, 1950, Serial No. 148,198
10 Claims. (Cl. 123—127)



1. A carburetor for an internal combustion engine comprising a primary induction passage having a throttle therein, a secondary induction passage having a throttle therein, a means for positively opening said primary throttle, a linkage connecting said throttles and having a yieldable connection therein, and a dashpot for retarding the opening movement of said secondary throttle to permit the primary throttle to open fully before the secondary throttle has opened fully.

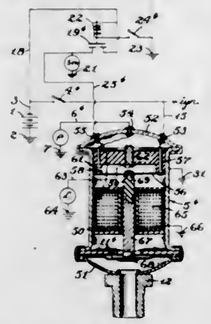
2,609,808
JET ENGINE IGNITER PLUG
Wilfred A. Bychinsky, Ann Arbor, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 28, 1950, Serial No. 146,757
10 Claims. (Cl. 123—169)

3. In an igniter plug for combustion gas turbines, a cylindrical member provided with an air inlet passage and an inwardly tapered wall adjacent its end, said wall having spaced axial slots therein to provide a plurality of ground electrodes, an insulator mounted within said shell and spaced therefrom to provide a duct in communication with said passage, said insulator having a recessed end adjacent to and encircled by said tapered wall to provide a restricted out-



let from said duct, and an electrode disposed in said insulator having one end projecting outwardly from said recessed end and into spaced relation with the electrodes of said cylindrical member.

2,609,809
ELECTRIC FUEL PUMP CONTROL FOR INTERNAL-COMBUSTION ENGINES
Leland C. Parker, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application September 18, 1950, Serial No. 185,446
2 Claims. (Cl. 123—179)

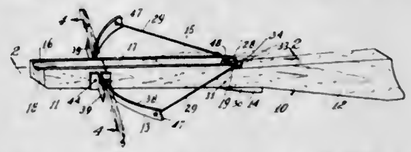


1. In a control system for electrical fuel pumps for internal combustion engines, a switch having normally open contacts, means including a solenoid and magnetic plunger for closing said switch, a starting system for the engine including a starting switch, a control circuit for the solenoid including said starting switch, said engine having a pressure lubricating system, and means actuated by the hydraulic pressure in said lubricating system for holding the solenoid plunger in switch-closing position, as long as the engine is in operation.

2,609,810
CROSSBOW
Adolph V. Gruner, Pittsburgh, Pa.
Application January 25, 1949, Serial No. 72,669
2 Claims. (Cl. 124—25)

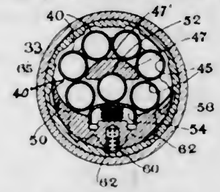
2. In a crossbow, having a stock and barrel with a projectile guiding groove therein, a bow member passing through the barrel at a point adjacent its muzzle and adapted, when relaxed, to lie in a plane perpendicular to the vertical plane of said barrel and stock, a separate damping member passing through the barrel in a plane parallel to the plane of the bow, said damping member being in contact with the bow at their

mid-points only except when said bow is relaxed or forward of the relaxed position and adapted to dampen the forward movement of the bow when forward of its normally relaxed position, a U-shaped member fitted about the underside of the barrel and slotted to receive the bow and damping member, a second U-shaped member



passing through the barrel above the bow, a bow-string connecting the ends of the bow, a vertical shoulder adjacent the junction of barrel and stock receiving the bow-string when the bow is drawn and releasing means adapted to release the bow-string from said shoulder while maintaining substantially constant tension on the bow-string.

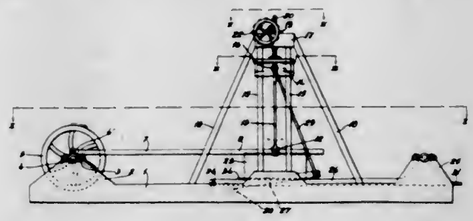
2,609,811
MAGAZINE LOADER FOR AIR GUNS
Andrew Lawrence, New York, N. Y., assignor of one-half to Stephen E. Laszlo, New York, N. Y.
Application December 3, 1948, Serial No. 63,231
5 Claims. (Cl. 124—48)



1. In a gun having a barrel means with a breech opening in its rear end arranged coaxially with said barrel means, a magazine loader mounted at the rear end of the barrel means and comprising in combination, guide means including a projection arranged adjacent to said breech opening and having a surface portion serving as a guide way for bullets, a portion of said guide way adjacent to said breech opening being recessed in such manner that a bullet passing along said guide way and abutting against said recessed portion is aligned with said breech opening; spring operated means mounted on said guide means opposite to said recessed portion of said guide way and adapted to urge a bullet passing along said guide way against said recessed portion, and magazine means associated with said guide means for relative rotation and having at least one transporting projection projecting inwardly towards said guide way and adapted to engage a bullet thereon for moving a row of bullets relative to said guide means along said guide way so that said bullets consecutively reach said breech opening.

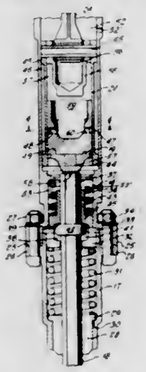
2,609,812
MEANS FOR SAWING STONE SUCH AS MARBLE AND THE LIKE
Bror G. Stålheim, Stockholm, Sweden, assignor to Dreier-Stalheim Inc., New York, N. Y., a corporation of New York
Application July 11, 1949, Serial No. 103,977
In Sweden March 18, 1948
8 Claims. (Cl. 125—19)

1. In a stone sawing machine the combination of a work carrying bridge, means for elevating said bridge, standards on each side of said bridge, a cross member connecting the upper portions of said standards above and transversely to said bridge, parallel link rods suspended from said cross member, a saw sash rockably mounted at the lower ends of said link rods, a rigid arm extending longitudinally from said sash and having its outer end pivotally connected to a crank im-



parting, when operated, a reciprocating and rocking motion to said sash, and toothed saw blades parallelly mounted and stretched in said saw sash, said saw blades having raked teeth divided into two groups occupying each one end portion of each saw blade, the teeth of either such group raking towards the respective end of each saw blade.

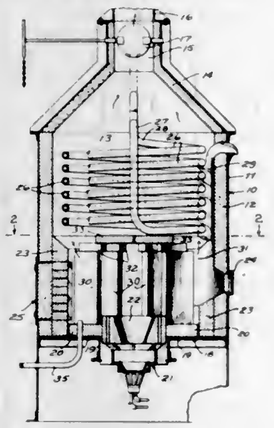
2,609,813
GAS HAMMER
Spencer B. Maurer and Howard P. Ebert, Cleveland, Ohio, assignors to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Original application August 15, 1946, Serial No. 690,654. Divided and this application July 8, 1949, Serial No. 103,662
9 Claims. (Cl. 125—33)



1. In a percussive tool, a housing, a barrel member mounted thereon, a hammer assembly including a floating hammer member adapted to reciprocate within the barrel, a working implement arranged within the barrel and having a collar thereon, said implement being adapted to transmit intermittent blows of the floating hammer member, a retainer ring mounted in the barrel and extending into the interior thereof adjacent the implement collar, an inner snubber ring formed with a shoulder adapted to seat the collar, an outer snubber ring formed with a shoulder adapted for seating the collar and disposed opposite the inner snubber ring shoulder, the retainer ring serving to space the two opposite snubber ring shoulders apart a greater distance

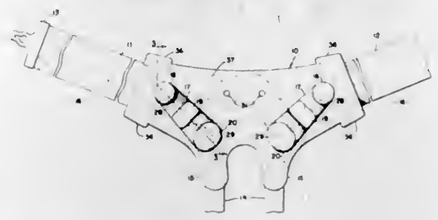
than the thickness of the collar, to provide a space wherein the collar may float snub-free, and spring means within the barrel adapted to maintain the snubber rings in contact with the retainer ring when the tool is at rest, the outer snubber ring and associated spring means being adapted to absorb the shock of the collar at a predetermined point upon its outward movement in response to a blow of the floating hammer and the inner snubber ring and associated spring being adapted to absorb the shock of the collar at a predetermined point upon its reaction from the outer spring thereby to intermittently position the working implement at a predetermined point for the reception of intermittent hammer blows.

2,609,814
FURNACE FOR HEATING FLUIDS
Edward R. Kilsby, Newark, N. J., assignor to Foster-Wheeler Corporation, New York, N. Y., a corporation of New York
Application July 13, 1945, Serial No. 604,778
9 Claims. (Cl. 126—109)



1. A furnace comprising a setting with a combustion chamber therein, burner means positioned adjacent the bottom of the combustion chamber and so as to direct a stream of products of combustion substantially vertically upwardly into said chamber, a plurality of spaced directing members arranged around the burner means so as to form a passage for said stream extending substantially parallel thereto and to provide spaces between adjacent members, the directing members and also the spaces therebetween extending from an inner extremity adjacent said passage to an outer extremity adjacent the inner periphery of the combustion chamber, an impingement member positioned in the path of flow of said products flowing through the passage, said impingement member extending over the passage and said spaces to a point short of the outer extremity of the spaces thereby directing the products from the passage through the spaces between the directing members in a generally horizontal direction, and tubular means positioned in said chamber at a higher level than said impingement member and above and in substantial vertical alignment with that portion of the spaces between said point and outer extremity, the combustion chamber having a gas outlet opening positioned beyond the tubular means in the direction of flow of the gases of combustion from the burner whereby the gases flow from said portion of the spaces to said gas outlet opening in a generally vertical direction and in heat exchange relationship with said tubular means.

2,609,815
TRUSS
Louis P. Mack and Russell A. Winters, Chicago, Ill.; said Winters assignor to said Mack
Application May 22, 1950, Serial No. 163,458
9 Claims. (Cl. 128—96)

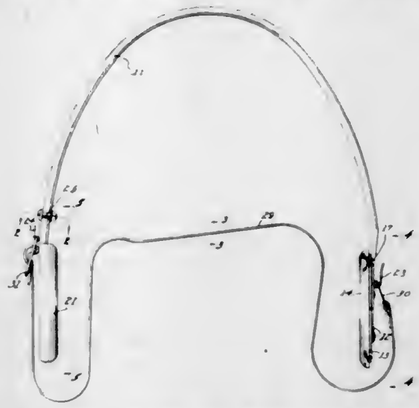


3. A truss comprising a flexible truss plate provided with a first aperture and a plurality of second apertures which are equidistantly spaced from said first aperture, and a flexible truss pad comprising a flexible elongate member having a length more than twice its average width and having a plurality of pressure members integral therewith and projecting from the rear surface thereof, and two attaching members projecting forwardly from the front surface thereof, one of said attaching members being adapted to fit in said first aperture, and the other of said connecting members being adapted to fit in one of said second apertures.

9. A truss pad comprising an elongate member formed of resilient material, having a length of more than twice its average width and having three aligned pressure members integral therewith, said elongate member providing connecting portions, said connecting portions being of a thickness substantially less than the thickness of said pressure members so as to render said connecting portions flexible and so as to cause said pressure members to project away from the surface of an adjacent connecting portion to a substantial extent so that said flexible portions will be held out of contact with the body, the distance between the first and third of said pressure members corresponding to the distance between the internal and external rings of the inguinal canal and the second of said pressure members being of elongate outline and being oriented with its major axis transverse to the axis of said elongate member, and being of a thickness at least equal to the thickness of said first pressure member and adapted to overlie and apply pressure to an intermediate portion of the inguinal canal when said first and third pressure members overlie said internal and external rings, respectively.

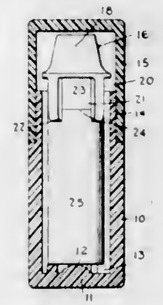
2,609,816
SURGICAL TRUSS
Joe D. Meyer, Parkersburg, Iowa
Application August 25, 1950, Serial No. 181,387
1 Claim. (Cl. 128—105)

A hernial truss of the character described comprising a bowed spring rod member, body pads secured to said member at opposite ends thereof, a first hook element carried by one end of said member, a second hook element and a clamping plate positioned against opposite sides of the member adjacent its other end, connecting bolts embracing the rod member and extending between the second hook element and clamping plate for clamping thereof to the rod member in selected positions of adjustment longitudinally of the member, and an elastic band connected at opposite ends to the respective hook elements,



that end portion of the band adjacent the second hook element overlying the body pad contiguous to said second hook element to exert pressure thereagainst tending to bias said body pad in the direction of an abdominal area over which it is positioned.

2,609,817
INHALER
Anthony Falcone, Newark, N. J.
Application June 8, 1950, Serial No. 166,904
1 Claim. (Cl. 128—200)



An inhaler comprising, a tubular casing having one end open and its opposite end closed, said closed end having circumferentially spaced lugs extending axially of the casing and terminating near the closed end, a tubular suction element provided at its inner end with circumferentially spaced axially extending ribs of substantial length forming recesses between them, the inner ends of the recesses being open, the ribs slidably engaging within the upper end of the tubular casing, the suction element having a reduced inner extension and the lower ends of the ribs extending longitudinally over the reduced extension to form notches, a tubular absorbent element having one end receiving the reduced extension and entering the notches for engagement behind the lower ends of the ribs to be held in place thereby, the tubular absorbent element having a smaller exterior diameter than the interior diameter of the tubular casing and being of a length to contact with the lugs and be held spaced thereby from the closed end of the tubular casing and also serving to limit the inward movement of the tubular suction element so that the outer ends of the recesses between the lugs remain uncovered by the tubular casing, and a cap removably mounted upon the open end of the tubular casing.

2,609,818
AUTOMATIC INJECTING AMPULE
John J. Parrine, Rocky River, Ohio, assignor to Strong Cobb & Company, Inc., Cleveland, Ohio, a corporation of Delaware
Application May 3, 1949, Serial No. 91,115
17 Claims. (Cl. 128—216)

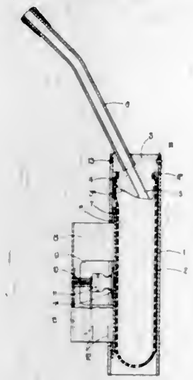


1. An automatic injecting ampule comprising a pair of aligned cylindrical chambers each of which has a reduced sealed frangible extension and one of which contains a liquid sealed therein under pressure, a hypodermic needle adjacent and in alignment with one of said chambers but normally out of communication therewith and flexible tubing for maintaining said chambers and said hypodermic needle in alignment and in operative relationship.

2,609,819
DEVICE FOR ADMINISTERING DRENCHES TO LIVESTOCK
Allan Freeman Mitchell, Wanganui, Wellington, New Zealand, assignor to Drenching Equipment Company Limited, Wanganui, Wellington, New Zealand, a company of New Zealand
Application May 18, 1949, Serial No. 93,866
In New Zealand June 21, 1948
5 Claims. (Cl. 128—223)

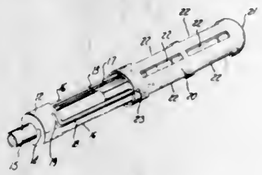
1. A device for administering drenches to livestock comprising an open ended body having a longitudinally extending slot therein, a rubber bag normally retaining an open shape within the body, a plug having a bore extending therethrough disposed within one end of the body, means securing the bag to the plug, with the bore and the plug communicating with the interior of the bag, means securing the plug to the body, a nozzle carried by the plug projecting outwardly therefrom and communicating with the bore, a pressure bar disposed within the body extending longitudinally of the slot therein and interposed between the body and the bag, a hand grip carried by the pressure bar projecting through the slot in the body and reciprocable through said slot whereby when the body is grasped in the hand and the hand grip is squeezed the pressure bar collapses the bag to eject the contents thereof through the

nozzle, upon relaxation of squeezing pressure the bag returning to an open state, and when the nozzle with the bag squeezed is inserted in a supply of fluid the relaxation of the squeezing pressure and returning of the bag to its open state drawing fluid into the bag through the nozzle, said hand grip including spaced walls extending parallel with the longitudinal edges of the slot and having aligned apertures therein, a screw disposed between the walls and connected to said pressure bar, a nut carried by said screw, said nut



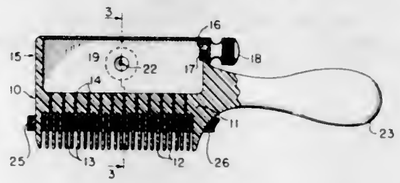
having a flange on the inner end of a diameter greater than the width of said slot, said flange resting on the pressure bar and fitting beneath the longitudinal side edges of the slot to prevent outward movement of the screw relative to the body, said nut being disposed centrally of the apertures in the walls of the grip so that when the nut is turned the screw is moved relative thereto to vary the position of the pressure bar with respect to the body whereby the degree of expansion of the bag is limited to vary the amount of fluid drawn thereinto when the bag expands.

2,609,820
CIGAR AND CIGARETTE HOLDER
Randey Vakilian, New York, N. Y.
Application May 6, 1949, Serial No. 91,756
1 Claim. (Cl. 131—175)



A holder for a smoking article comprising an inner casing having a smoking article receiving aperture at one end thereof, said inner casing having an enlarged cigarette receiving slot upon one side thereof for facilitating the placing of a cigarette longitudinally of and within the inner casing and then into the aperture at one end of the inner casing, said inner casing also having longitudinally extending radially spaced vent slots, said inner casing having a bayonet slot formed therein and comprising a longitudinally extending portion terminating in a transverse portion at the inner end of the inner casing and terminating short of the opposite end of the casing, an outer tubular casing slidably mounted upon the inner casing and provided with a closed outer end, said outer casing having longitudinally extending radially spaced vent slots adapted to be brought into registration with the vent slots of the inner casing, a pin fixed to and carried by the outer casing and slidably engaging said bayonet slot which is formed in said inner casing and holding the outer casing against accidental removal from said inner casing, the outer casing being rotatable for a limited distance upon the inner casing to open and close the vent slots, the inner casing having relatively wide portions intermediate the vent slots, the pin being movable in the transverse portion of the bayonet slot as the outer casing is rotated upon the inner casing, and the pin being movable longitudinally of the longitudinal portion of the bayonet slot as the outer casing is moved longitudinally of the inner casing, the longitudinal movement of the outer casing outwardly of the inner casing uncovering the enlarged cigarette receiving slot for substantially its entire length to provide for the removal of a cigarette from the inner casing by the fingers of a user, while the portion of the inner casing intermediate the vent slots thereof constitutes an ash receiving means should ashes drop from the cigarette while the used cigarette is being removed from the holder.

2,609,821
HAIR GROOMING DEVICE
Bela Weissberger, New York, N. Y.
Application October 27, 1949, Serial No. 123,890
3 Claims. (Cl. 132—13)

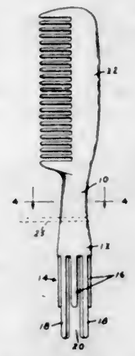


1. A hair grooming device of the character described, comprising a comb member having a substantially flat elongated back portion and spaced apart teeth extending from an elongated edge of said back portion, an approximately tubular liquid reservoir mounted on the opposed edge of said back member, said reservoir having an inlet opening formed in an end thereof and a closure for said inlet opening, said reservoir having outlet openings formed therein extending through said back portion and terminating in selected of said spaces between said teeth, said reservoir having slightly resilient opposed side walls adapted to be pressed toward one another to expel liquid therefrom, and an applicator pad of soft absorbent material mounted over said teeth and positioned adjacent said outlet terminals in said spaces, said pad extending into said spaces between said teeth and to each side of said teeth.

2,609,822
HAIR CURLING DEVICE
Thelma C. McCormack and Cecilia G. Clark, Washington, D. C.
Application March 21, 1951, Serial No. 216,706
1 Claim. (Cl. 132—35)

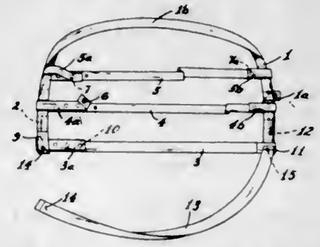
In a hair dressing device an elongated body, an annular row of elongated circumferentially spaced curling prongs carried by said body and extending longitudinally from one end thereof, and alternate prongs in said row of prongs ter-

minating intermediate the ends of the other prongs in said row of prongs to facilitate the



application of a bobby pin to a curled strand of hair supported on said prongs.

2,609,823
HAIR-RESTRAINING APPLIANCE
Margaret D. Neff, Pittsburgh, Pa.
Application March 1, 1951, Serial No. 213,375
14 Claims. (Cl. 132—46)



1. An open hair-restraining appliance comprising a brow or foundation band, a neck band attached at its ends to said foundation band, means associated with the said neck band at one end at least thereof providing effective length adjustment of said band, means associated with the said foundation band at one end at least thereof providing effective length adjustment of said band, adjustment in the length of each said band leaving the length of the other thereof unaffected, a head band attached at its ends to said foundation band and adjustable in its position therealong, and means associated with said head band providing effective length adjustment of the said head band.

2,609,824
HAIR-RESTRAINING APPLIANCE
Margaret D. Neff, Pittsburgh, Pa.
Application June 4, 1951, Serial No. 229,837
4 Claims. (Cl. 132—46)



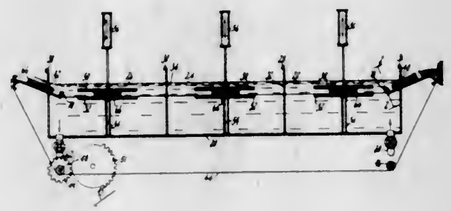
1. An open hair-restraining appliance comprising a brow or foundation band, a neck band attached at its ends to said foundation band, said bands being independently adjustable in length, a head band attached at its ends to said foundation band and adjustable in its position therealong, means associated with the said head band at the inner side thereof in at least one region of its attachment to the said foundation band providing adjustment in the effective length of the said head band, and a fitting on one of said bands effective positively to engage the said appliance to at least one ear of a wearer.

2,609,825
HAIRPIN
Anthony V. Richetti, Jamestown, N. Y.
Application May 16, 1950, Serial No. 162,370
5 Claims. (Cl. 132—50)



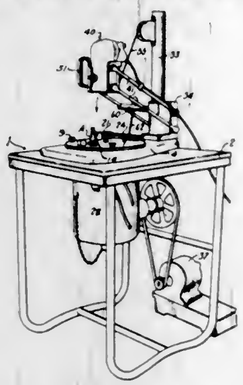
1. A hairpin comprising a pair of legs connected at corresponding ends by a curved resilient part, one of said legs being formed with a series of uniformly spaced elongated slots arranged in the direction of the leg length and extending from adjacent the resilient part to the leg end, a series of undulations extending throughout a considerable portion of the length of the other of said legs and adapted to interfit said slots.

2,609,826
APPARATUS FOR WASHING SPONGY MATERIAL
John T. Marvin, Dayton, and George H. McFadden, Columbus, Ohio, assignors, by direct and mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application March 3, 1948, Serial No. 12,706. Divided and this application April 8, 1950, Serial No. 154,788
3 Claims. (Cl. 134—60)



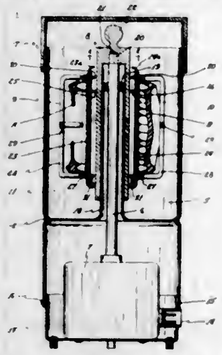
2. A machine for washing spongy resilient articles, comprising in combination; a tank adapted to contain a washing fluid, a conveyor passing through said tank and disposed so that at least a portion thereof is beneath the surface of said fluid, a pair of perforated plattens disposed on either side of said conveyor at the point where said conveyor is beneath the fluid, means for intermittently advancing the conveyor to position the articles between oppositely disposed plattens and subsequently move the articles away therefrom and means for moving at least one of said plattens toward and away from the other platten whereby articles on said conveyor and between said plattens are alternately compressed and released beneath said fluid.

2,609,827
SPARK PLUG CLEANING APPARATUS
Robert K. Christie, Toledo, Ohio, assignor to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware
Application July 30, 1947, Serial No. 764,860
9 Claims. (Cl. 134—152)



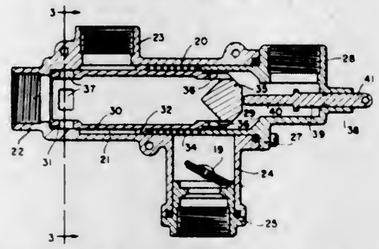
1. In a spark plug cleaning apparatus, a spark plug support, means for rotating a supported spark plug about its longitudinal axis and including a driven clutch sleeve movable into and out of driving engagement with a supported spark plug, means for directing a cleaning solution against the firing end of the plug while being rotated, and means operable to cause the last-mentioned means to operate when the driven clutch sleeve is moved into driving engagement with a supported spark plug.

2,609,828
WASHING DEVICE FOR ARTIFICIAL DENTURES
Mark Ward, Spokane, Wash.
Application September 19, 1949, Serial No. 116,481
3 Claims. (Cl. 134—158)



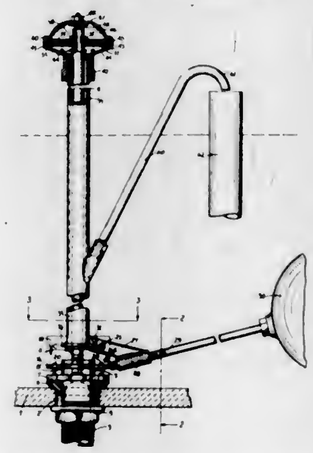
1. A washing device for artificial dentures comprising a container, a substantially vertically disposed stem therein, means to rotate the stem, a pair of denture supporting trays, a support extending downwardly over the stem, having means to drivingly connect it to the stem, means securing the trays to the support near its lower end for swinging movement between a horizontal position and substantially vertical position alongside the support, and cooperating means on the trays and near the upper end of the support, releasably securing the trays in substantially vertical position alongside the support.

2,609,829
EMERGENCY BY-PASS VALVE FOR FLUID CIRCUITS
Robert H. Davies, Aurora Township, Portage County, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application October 27, 1947, Serial No. 782,381
15 Claims. (Cl. 137—117)



1. In a closed fluid conveying system, a supply tank, a work circuit, a pump for the system, a delivery pipe from the tank to the circuit, a valve device in said pipe, a first return pipe in the circuit to the valve device, a second return pipe from the valve device to the tank, said valve device having a free poppet with two opposed areas, one responsive to fluid pressure in the delivery pipe tending to close the valve, and the other area responsive to back pressure in the work circuit tending to open the valve, said poppet having two additional opposed areas, one responsive to pressure of fluid in the first return pipe tending to open the valve, and the other responsive to pressure of fluid in the second return pipe tending to close the valve.

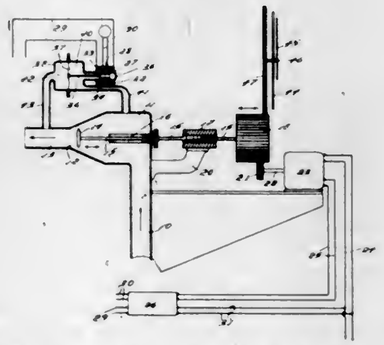
2,609,830
FLUSH TANK INLET VALVE
Harry Ford Smith, Lexington, Ohio, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio, a corporation of Ohio
Application November 23, 1948, Serial No. 61,646
12 Claims. (Cl. 137—437)



4. In a flush tank, a fixed inlet pipe having a valve seat at its outlet end, a hush pipe around and movable endwise and rotatably relative to said inlet pipe, a bracket connected to said inlet pipe for free rotational, non-axial movement relative thereto, said hush pipe and bracket being connected for non-relative rotational movement,

a valve to engage said seat, means to vary the extent of opening of said valve including a float lever pivotally connected to said bracket and engaging said hush pipe for reciprocating the latter endwise, and means for varying the level of water in the tank including a housing carrying said valve and having screw-threaded engagement with the hush pipe for predetermined positioning on the latter.

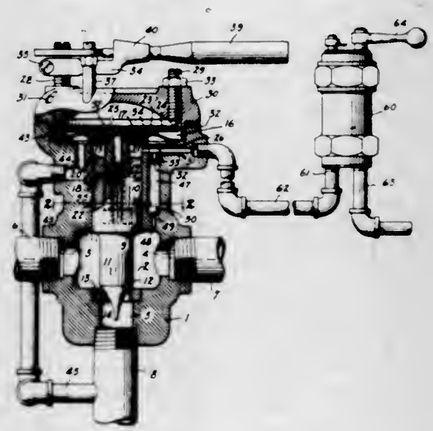
2,609,831
PRESSURE FLOWMETER
William D. Macgeorge, Havertown, Pa., assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application January 10, 1948, Serial No. 1,621
2 Claims. (Cl. 137—487)



1. In flow meters, a conduit for the passage of fluid under pressure having an orifice in the path of such fluid, means forming a closed chamber communicating only with said conduit at opposite sides respectively of said orifice, a diaphragm extending across said chamber and subject at one side to the pressure at the inlet side of said orifice and at the other side to the pressure at the outlet side of said orifice, said chamber including a tube generally normal to said diaphragm substantially concentric with the center of said diaphragm, said tube having a closed end presenting away from the diaphragm, an armature disposed in said tube, and means wholly within the chamber connecting the armature to the diaphragm to position the armature with displacements of the diaphragm in a packless assembly, a stator of a differential transformer comprising primary exciting means and secondary windings in inductive relation thereto in an air gap relation, said stator mounted externally on said tube to form with said armature a differential transformer having a substantially null output when the armature and stator are substantially mutually centered and having an output of one phase or an opposite phase with relative displacements of the armature and stator in one sense or the other from said substantial null relative setting, when said exciting means is energized with A. C.

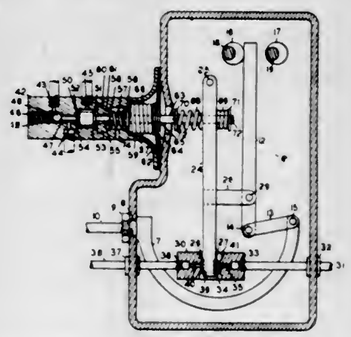
2,609,832
FLUID PRESSURE REGULATOR
Merton J. Smith, Cleveland, Ohio
Application July 6, 1946, Serial No. 681,647
5 Claims. (Cl. 137—489)

1. In a fluid pressure regulating valve having casing means defining a main fluid chamber, an inlet passage therefor, and a cylinder, a piston slidable in the cylinder and subjected at one end to the pressure of fluid in the chamber, means defining a control fluid chamber at the other end of the piston, said other end being subjected to the pressure of fluid in the control chamber whereby to hydraulically balance the piston in the cylinder, a release outlet for the control chamber and a movable closure therefor, said closure having a stem smaller than and received within the piston, said closure stem having sliding engagement with the piston to be



guided thereby, resilient means acting to maintain the closure in sealing relation to the release outlet, an outlet passage communicating with the main fluid chamber, a valve body movable to open and close the outlet passage, said valve body having connection with the piston to be actuated thereby, and other resilient means interposed between the piston and the closure to bias the piston to actuate the valve body for closing the outlet passage.

2,609,833
PRESSURE RANGE CONTROL
Orla E. Watson, Kansas City, Mo.
Application December 15, 1944, Serial No. 568,340
1 Claim. (Cl. 137—492)



A fluid pressure range control comprising a hermetically sealed case, a Bourdon tube within said sealed case, one end of said Bourdon tube being closed, the open end of said Bourdon tube being connected to said sealed case and opening therethrough to the outside thereof for a fluid conduit line, a selector lever, said selector lever having one end thereof connected to the closed end of said Bourdon tube through a pivoted connecting link, a valve lever within said sealed

case, said valve lever being pivoted within said sealed case, a valve casing comprising a plurality of valves and valve ports, said valve casing being connected to said sealed case, a valve stem, said valve stem being an actuator of the plurality of said valves in said valve casing and extended into said sealed case, resilient members, said valve stem being connected to said valve lever, a diaphragm, said diaphragm arranged on said valve casing and being attached to said valve stem, means within said valve casing to normally press said diaphragm toward said sealed case, said sealed case having a fluid opening therethrough to one side of said diaphragm, an inlet valve, an outlet valve, said inlet and outlet valves mounted inside of said sealed case, conduits connecting said inlet and outlet valves to the outside of said sealed case, said inlet and outlet valves being operated by said valve lever, said valve lever being actuated by said valve stem, said resilient members being on said valve stem and bearing against said valve lever, a pair of shafts spaced apart and mounted within said sealed case, a pair of fluid pressure selector cams secured on said shafts within said sealed case, a pair of graduated dials secured on the outside of said sealed case for the selection of fluid pressure, the free end of said selector lever being located between and having its movement restricted by said selector cams whereby the expansion of said Bourdon tube through a high fluid pressure therein will cause the closed end thereof to pull on the link end of said selector lever, the selector lever being fulcrumed on the valve lever arm will have its free end forced against one of said selector cams and when the pressure in said Bourdon tube is reduced to a low selector pressure the selector lever will move through space to bear against the opposite selector cam, said selector lever operating said valve lever controlling said inlet and outlet valves to control the fluid pressure within said sealed case and said fluid within said sealed case operating said diaphragm on the valve stem and plurality of valves in said valve casing to oppose said means within said valve casing for the remote control of a diaphragm valve.

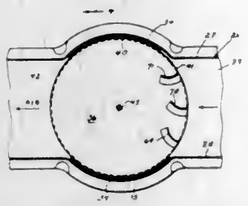
2,609,834

AIR VOLUME REGULATOR FOR STOKERS

John A. Wilson and John Harold Hansen, Detroit, Mich., assignors to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio

Application June 26, 1946, Serial No. 679,520

9 Claims. (Cl. 137—499)



2. A statically balanced shutter for an automatic air volume regulator comprising a rotary cylindrical member closed at its ends and provided with diametrically opposite combustion air inlet and outlet apertures on its periphery, and transverse vane means secured to the periphery of said member in one of said apertures.

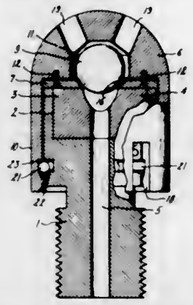
2,609,835

ADJUSTABLE MAGNETIC PRESSURE VALVE

Julius B. Horvay, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application December 27, 1948, Serial No. 67,327

5 Claims. (Cl. 137—528)



4. A magnetic valve comprising an inlet and an outlet, an apertured valve seat between said inlet and outlet and including two magnetically insulated magnetic portions on opposite sides of the valve seat aperture, a permanent magnet having opposite poles on opposite sides of said aperture, a magnetic ball adapted to seat in said aperture on the outlet side of said valve seat, said magnet, valve seat and ball forming a magnetic circuit wherein the flux flowing through said ball can be varied by rotation of the valve seat relative to the poles of said magnet between a position in which each of said magnetic portions overlies a pole of the magnet and a position in which they bridge said poles.

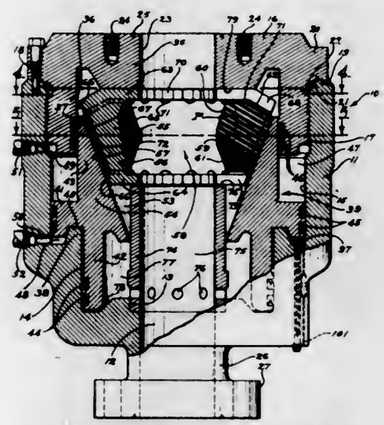
2,609,836

CONTROL HEAD AND BLOW-OUT PREVENTER

Granville S. Knox, Los Angeles, Calif., assignor to Hydril Corporation, Los Angeles, Calif., a corporation of California

Application August 16, 1946, Serial No. 691,110

22 Claims. (Cl. 137—618)



10. A closure element for a device of the character described, comprising an annulus of resilient material, a radially contractible and expansible armature embedded within and supported resiliently and solely by said annulus, said armature comprising a circular series of angularly spaced, rigid inserts extending axially of the annulus from end to end thereof, said inserts being capable of individual radial movement as controlled by the resilient material of the annulus.

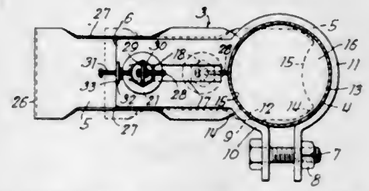
2,609,837

EXHAUST DAMPER

Arthur G. Enander, Rockford, Ill., assignor to Smith & Enander, a copartnership composed of Claud A. Smith and Arthur G. Enander

Application March 24, 1947, Serial No. 736,743

5 Claims. (Cl. 138—46)



1. A slide valve structure for a pipe having a transverse slot formed in one side said valve structure comprising, a bracket having means for attaching the same to said pipe in a plane in transverse relation to the bore thereof and parallel to the slot, a damper slide slidably mounted on said bracket and movable endwise through said slot transversely relative to the bore and having the inner end thereof of substantially semi-circular form to fit the curvature of the side of said pipe diametrically opposite the slot, the semi-circularly formed inner end having an edge portion removed affording a restricted discharge opening in the closed position of said slide, spring-pressed means for frictionally holding the slide in adjusted position relative to the bracket, and an adjustable stop for positively limiting the opening movement of said slide so as to predetermine the extent of restriction of flow in the open position of said slide.

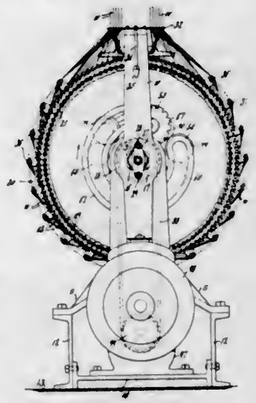
2,609,838

CIRCULAR LOOM AND METHOD OF OPERATING SAME

Charles Schneider Cole, Sandy Hook, Conn., assignor to Fabric Fire Hose Company, Sandy Hook, Conn., a corporation of New York

Application October 11, 1947, Serial No. 779,243

23 Claims. (Cl. 139—15)



9. In a circular loom having an endless raceway, a shuttle that extends more than half-way around the loom and constructed so that it is substantially balanced as to centrifugal forces and having contact with the raceway at three points spaced 120 degrees apart about the loom axis, means for supplying warp threads to the loom to form a shed, means for opening the shed, and means for driving the shuttle.

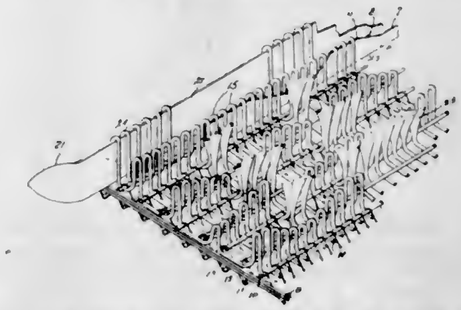
2,609,839

METHOD OF WEAVING PILE FABRICS

Francis P. Groat, Bloomsburg, Pa., assignor to The Magee Carpet Company, Bloomsburg, Pa., a corporation of Pennsylvania

Original application April 12, 1948, Serial No. 20,547. Divided and this application August 17, 1949, Serial No. 110,787

4 Claims. (Cl. 139—39)



1. The method of weaving on a wire loom a pile fabric having a warp pile face including rows of tufts and rows of loops of graduated height which comprises inserting into the shed a non-cutting pile wire having high loop-forming portions and intermediate low loop-forming portions with oppositely inclined loop-forming portions between the high and low portions, weaving pile warps over said high, low and inclined portions to form a weftwise row of high and low pile loops with intervening loops of graduated height between the high and low loops, inserting into a subsequent shed a knife wire having a loop-forming edge of uniform height, selectively weaving the pile warps over said knife wire, inserting into a subsequent shed a second non-cutting wire having high and low loop-forming portions with intervening inclined loop-forming portions, selectively weaving the pile warps over said high, low and inclined portions of said second non-cutting wire to form a succeeding weftwise row of high and low pile loops with intervening loops of graduated height between the high and low loops, withdrawing said first-mentioned non-cutting wire to form a row of high loops, withdrawing said knife wire to form a row of tufts and then withdrawing said second-mentioned non-cutting wire whereby the loops in said first row in pile warps not raised over the intermediate knife wire but woven over the low and inclined portions of said second non-cutting wire will be reduced in height forming a row of high and low loops with loops of graduated height between each series of high and low loops.

2,609,840

LOOM

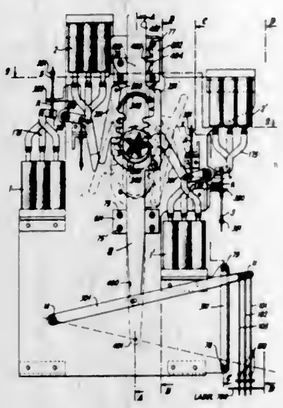
Arthur J. Murphy, New York, N. Y., assignor of one-half to S. Lawrence Atkins, New York, N. Y.

Application September 2, 1947, Serial No. 771,685

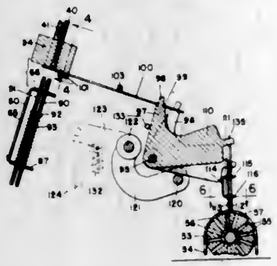
15 Claims. (Cl. 139—55)

1. In a loom, in combinaton, a series of warp thread carrying elements, a corresponding series of actuating members for said elements and

capable of reciprocating motion, a single rotatable shaft for controlling the direction of movement of said actuating members, a pair of electrically operated devices associated with each actuating member, and a link between each electrically operated device and its associated actuating member, so constructed and arranged that the operation of one electrical device of each pair causes the movement of the associated member in one direction by means of said shaft, while the operation of the other electrical device of each pair causes the movement of the associated member in an opposite direction by means of said shaft.

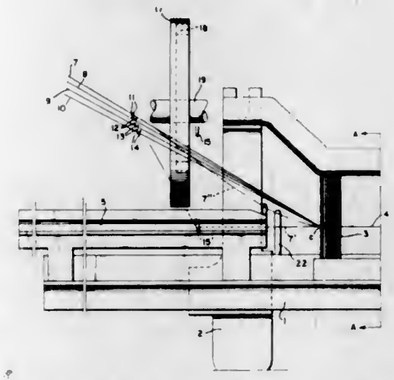


2,609,841
PAPER INDICATED DOBBY
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 7, 1951, Serial No. 219,779
19 Claims. (Cl. 139—68)



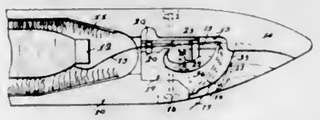
6. In a dobby having two oppositely reciprocating knives and two sets of harness controlling hooks, one set of hooks for each knife, the hooks being normally out of the path of their respective knives but being movable into the paths by lifters which are arranged in two parallel rows, two parallel rows of yielding actuators, one actuator for each lifter, stops for the actuators movable transversely of said rows from a position on one side of said rows of actuators to a position on the opposite side of the other row of actuators, each stop when on said one side being in stopping position to prevent the corresponding actuator from engaging the associated lifter, and when on said opposite side enabling the corresponding actuator to move the associated lifter, pattern mechanism, and control means intermediate the pattern mechanism and the stops cooperating with the pattern mechanism to determine whether said stops shall be on said one side or on said other side of said rows of actuators.

2,609,842
DEVICE FOR THE INSERTION OF DIFFERENT WEFTS IN WEFT FEEDER LOOMS WITHOUT PIRN
Raymond Dewas, Amiens, France
Application August 14, 1950, Serial No. 179,285
In France September 8, 1949
1 Claim. (Cl. 139—122)



Device, of the type specified, for the insertion of different wefts in weft feeder looms without pirn, characterised in the combination of a plurality of selecting members, the function of each of which is to conduct a selected thread into a position situated outside the selvedge and above the plane of the cloth, where the thread can be caught; a single presenting member to conduct the selected thread to the front of the shed, approximately at the middle of the height of the latter, into the path of the weft inserting member on leaving the needle guiding box, and a fixed positioning hook, mounted on the sley, and which, owing to the backward movement of the sley catches hold of the selected thread between the point where the weft inserting member comes in contact with the weft to be caught and the single presenting member.

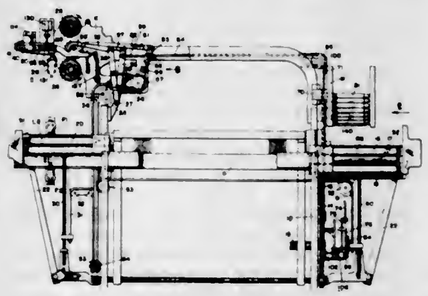
2,609,843
COMPENSATING SPRING TAKE-UP TENSION FOR BOBBIN CHANGE SHUTTLES
Charles H. Durham, Bedford, Va.
Application June 15, 1951, Serial No. 231,736
5 Claims. (Cl. 139—215)



1. The combination with a loom shuttle tension having means for frictionally gripping the filling passing therethrough to resist the feed of the filling from a shuttle, of a compensating spring take-up tension for use with the shuttle tension, said shuttle tension including a body having a slot formed therein, said body being provided with a socket extending through a part of the body and having an end opening into said slot, a lever having one end disposed in said slot and an opposite end projecting outwardly

from a front wall of the tension body, a pivot pin extending through the first mentioned lever end and anchored in the tension body for swingably mounting the lever in said slot, an expansion spring disposed in said socket and urging the lever to swing in one direction, said tension body having a ledge portion overlying and extending outwardly from its front wall and provided with an arcuate guide groove in its under surface, and a rod fixed to and rising from the last mentioned, outer end of said lever having an upper end slidably engaging said guide groove, said rod being adapted to have the yarn or filling engaging around its outer side for exerting a pressure on the lever to swing the lever in the slot and against the action of the spring for normally maintaining the spring in a loaded condition whereby the lever is swung under the biasing action of the spring when slack occurs in the yarn for tensioning the yarn.

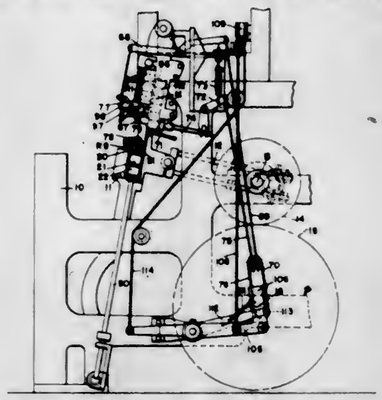
2,609,844
WEFT REPLENISHING LOOM OPERATING WITH TWO SHUTTLES
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application March 20, 1948, Serial No. 16,064
19 Claims. (Cl. 139—232)



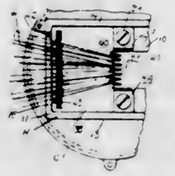
8. In a bobbin changing loom operating in an eight pick cycle comprising two successive four pick sequences, the loom having two shuttles with different wefts running pick and pick, a magazine at one end of the loom having two groups of reserve bobbins, one group for each shuttle, and means effective on an odd numbered pick of one of said sequences if one of said shuttles is depleted of weft to effect replenishment of said one shuttle by a bobbin drawn from one of said groups and effective on an even numbered pick of the other sequence if the other shuttle is depleted of weft to effect replenishment of said other shuttle by a bobbin drawn from the other group.

2,609,845
TWO-SHUTTLE PICK AND PICK SHUTTLE CHANGING LOOM
Richard G. Turner, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application March 20, 1948, Serial No. 16,065
22 Claims. (Cl. 139—232)

1. In a shuttle changing loom, two weaving shuttles which carry distinctive wefts and run pick and pick, a magazine at one end of the loom having two groups of reserve shuttles corresponding to the two weaving shuttles, and means automatically effecting replacement of either weaving shuttle when depleted of weft by a reserve shuttle drawn from the corresponding group of shuttles in the magazine.



2,609,846
PNEUMATIC THREAD HOLDER FOR WEFT REPLENISHING LOOMS
Gabriel C. Beatrice, Shrewsbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application November 2, 1950, Serial No. 193,675
11 Claims. (Cl. 139—247)

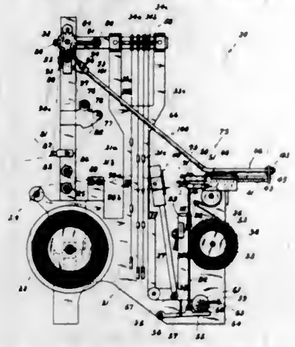


1. In a pneumatic thread holder for the weft ends of reserve bobbins in a loom, a walled structure enclosing a thread compartment in which subatmospheric pressures exist, the holder having a mouth communicating with the compartment and through which the weft ends extend into the compartment, a cover for the top of said walled structure movable upwardly to permit insertion of weft ends into the compartment, and a series of thread spacers fixed with respect to the structure within said compartment adjacent to said mouth and below the cover to separate the weft ends from each other, said spacers extending upwardly above weft ends extending along the under side of the cover.

2,609,847
STOP-MOTION FOR PILE-WEAVING MACHINES
Benjamin Kahn, Gadsden, Ala.
Application December 30, 1949, Serial No. 135,877
8 Claims. (Cl. 139—336)

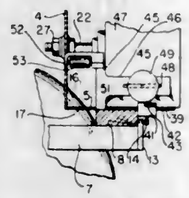
1. In a loom, in combination, a reciprocable lay, a reciprocable carriage, retaining means normally holding said carriage in an inoperative position remote from said lay, control means periodically inactivating said retaining means in timed relationship with the movement of said lay, operating means effective upon inactivation of said retaining means to displace said carriage in the direction toward said lay to an operative position, return means including the lay effec-

tive upon displacement of said carriage to return the latter to said inoperative position, a first switching device actuated by said carriage to assume an off-normal position as long as said carriage is displaced from its said inoperative position, a second switching device actuated by said control means to assume an off-normal position subsequently to the beginning of the normal displacement of said carriage, restoring means



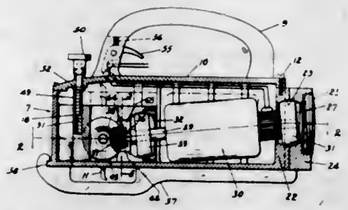
operative prior to the normal return of said carriage into said inoperative position to restore said second switching device to its normal position, a motor controlling the movement of said lay, and circuit means for stopping said motor, said circuit means being rendered effective only in the normal position of said first switching device upon said second switching device simultaneously occupying its said off-normal position.

2,609,848
PORTABLE SAWING APPARATUS FOR PROSTRATE LOGS
George O. Schneider, San Francisco, Calif.
Application April 1, 1950, Serial No. 153,455
5 Claims. (Cl. 143—38)



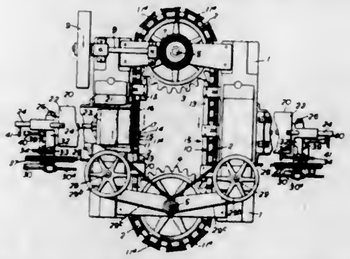
1. Apparatus for cutting prostrate logs comprising an open frame having a longitudinal bar at each side and crossbars connecting said longitudinal bars, said crossbars having means for engaging the ends of a log when the frame is in position thereon, the longitudinal bars then extending along the log and the top of said log projecting through said frame, a carriage supported on one of said longitudinal bars to be moved along said frame, a disk at the bottom of said carriage and parallel to the plane of the frame, said disk projecting from the side of the carriage that faces inward of the frame, a disk at the same side of the carriage spaced therefrom and perpendicular to the first disk, the rims of said disks bearing saw teeth, the rims meeting at one point, the teeth on one rim registering with the spaces between the teeth of the other, shafts bearing said disks, means on the carriage for rotating said shafts and disks, and a longitudinal gauge bar mounted on the inward side of said carriage adjacent the bottom to abut the log, said gauge bar having means for connecting it to the carriage to provide for the bar to be adjusted laterally towards and from the carriage to determine the thickness of a strip of timber to be cut by the teeth on said disks, the maximum width of said strip being determined by the distance between the first-named disk and the disk-clamping means at the center of the other disk.

2,609,849
PORTABLE MORTIS CUTTING TOOL
Alfred J. Kronquist, Los Angeles, Calif.
Substituted for application Serial No. 738,961, April 2, 1947. This application May 21, 1951, Serial No. 227,560
4 Claims. (Cl. 144—83)



1. In a manually portable cutting tool having a rotary cutter and a motor therefor; a housing for said cutter and said motor, said motor including a drive shaft projecting from one end thereof rotatable about a generally horizontally extending axis coincident with that of the motor, a horizontally extending cutter shaft on which said cutter is secured extending past one end of said drive shaft at right angles to the latter, a bearing carried by said housing at the end of said motor opposite said drive shaft supporting said motor for vertical swinging about a horizontal axis extending through said axis of said motor and drive shaft, a block within said housing, guides carried by said housing supporting said block for vertical movement relative to said housing, bearings for said cutter shaft and said drive shaft carried by said block for vertical movement therewith, interengaging gears respectively on said cutter shaft and said drive shaft, an adjusting screw carried by said housing and connected with said block for raising and lowering said block upon rotation of said screw in one direction or the other.

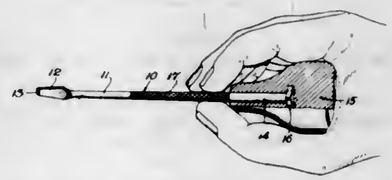
2,609,850
MANUFACTURE OF INDUSTRIAL WOOL FROM SOLID STOCK
Walter Edward Shotton, Smethwick, Birmingham, England
Application April 26, 1949, Serial No. 89,621
In Great Britain January 31, 1948
1 Claim. (Cl. 144—187)



A machine for making wood wool from solid stock comprising in combination a machine

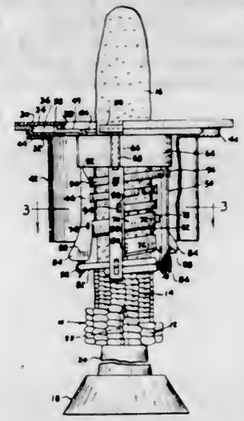
frame mounted on a base, an endless driving mechanism mounted on drive sprockets turnable about vertical axes on said frame, said driving mechanism consisting of a pair of superposed chains lying in spaced horizontal planes and providing parallel chain stretches intermediate the sprockets, horizontal abutments on said frame between said sprockets and rollers on said chains co-acting with said abutments and supporting said chain along said stretches, tool holders interconnected to and extending between said pair of chains, each tool holder consisting of a frame interconnected to said chains and a tool carrier adjustably connected to said frame, said adjustable connection comprising threaded bushes engaging nuts in said frame, said bushes being axially adjustable in said nuts and having a part of said nuts co-acting with said tool carrier, screw clamping devices engaging said tool carrier and said bushes for fastening said tool carrier to said frame, the said axial adjustment of said bushes serving to effect a lateral adjustment of said tool carrier relative to said frame in order that the tool carrier can be correctly positioned with respect to said stock, tools carried by said tool carriers and comprising alternate splitting and shaving tools, each splitting tool consisting of an externally grooved cylinder formed with multiple peripheral cutting edges, said splitting tool being turnable axially in its tool carrier without detachment from said tool carrier for bringing fresh multiple cutting edges into operative positions, a stock holder carried by said frame and located at right angles to a chain stretch, a plate in said stock holder and a feed mechanism for transmitting linear motion to said feed plate for advancing said feed plate towards a chain stretch and a driving connection between said feed mechanism and the machine.

2,609,851
HANDLE FOR SCREW DRIVERS AND SIMILAR TOOLS
Joseph Martin Hadfield, Chicago, Ill.
Application June 11, 1948, Serial No. 32,501
1 Claim. (Cl. 145—61)



In a hand tool adapted for twirling with the fingers under loose conditions and for forceful use of the handle to tighten a threaded member, the combination of an elongated, slender, cylindrical metal shank having a tool formation located at its working end and having a noncircular integral head carried by its other end, an integral small size knob in which said noncircular head is imbedded to prevent relative rotation between said entire knob and shank, the said knob having a relatively short cylindrical portion which is shorter axially than its diameter and its diameter being less than the distance between the rear portion of the fingers and thumb of the user when arcuately shaped for twirling motion, said cylindrical portion being provided with a tapered smaller portion surrounding said shank, the total length of said knob being substantially less than twice its diameter and less than the distance from the palm of the hand of the user to the end of the fingers, said shank having a frictional finger gripping surface adjacent said knob to prevent relative slippage between the fingers of the user and said shank, said knob because of its small size and shape being rotatable in the palm of the user when the shank is twirled between the thumb and fingers by the user to drive a loose threaded member speedily to its place, the knob then being used to tighten the threaded member in a minimum amount of time through frictional contact with the palm of the user, without changing the hand position of the user relative to the tool.

2,609,852
CORN CUTTING DEVICE
Wallace M. Houldsworth, Royal Oak, Mich.
Application November 2, 1949, Serial No. 125,096
11 Claims. (Cl. 146—4)

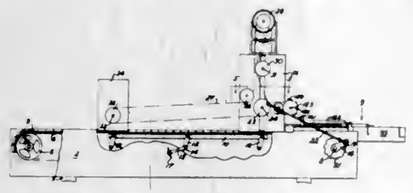


9. In a device for stripping kernels from an ear of corn, a supporting member having a circular hole therethrough and provided with a recess in the peripheral wall portion surrounding the hole and opening thereinto, a plurality of arms circularly spaced about the axis of the hole and extending substantially parallel thereto, one similar end of each arm lying within the hole and provided with an outward extension loosely entering the recess of the member for connection thereto, a helical shaped blade member inscribing at least 360° of a circle and having a cutting edge adapted to strip kernels from an ear of corn moving relatively to the blade member and axially therethrough, said blade member carried by said arms in co-axial relation to said supporting member and spaced therefrom and adapted in operation to contract and expand in accordance with the diameter of the ear of corn passing therethrough, said arms moving radially with respect to the axis of the blade member as the latter contracts and expands and being permitted such movement by virtue of the loose connection with the supporting member.

2,609,853
OLIVE STUFFING MACHINE
Laurence H. Smith, Oakland, Calif.
Application May 23, 1947, Serial No. 750,040
4 Claims. (Cl. 146—27)

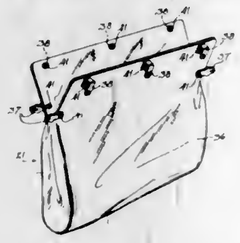
1. An olive stuffing machine comprising a tube having an opening in the side, a gate having a cutting edge and for closing the opening, means for introducing a strip of stuffing material into the tube thru said opening, means for position-

ing a pitted olive adjacent the end of the tube, means for closing the gate to sever the strip



within the tube from that outside the tube, and means for ejecting the stuffing material from the tube into the olive.

2,609,854
INTERCHANGEABLE LININGS FOR POCKETBOOKS
Mitchell Rosen, New York, N. Y.
Application June 24, 1949, Serial No. 100,993
4 Claims. (Cl. 150—28)



1. In a handbag or the like, an outer handbag body including a top frame, an interchangeable and renewable lining structure for said handbag body, and means for releasably joining the handbag body and lining structure including a plurality of projections and cooperating recesses, said projections being carried by said lining structure near the top thereof and said recesses being carried by said top frame, said top frame being, at least in part, of U-shaped cross-section, and said recesses being apertures through said frame, said apertures being elongated slots.

2,609,855
SAFETY DEVICE FOR WALLETS
Sam Rothschild, New York, N. Y.
Application January 12, 1950, Serial No. 138,079
1 Claim. (Cl. 150—47)



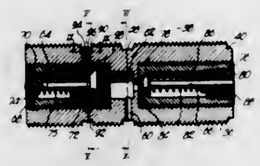
A wallet or the like of a size adapted to be received by the hip pocket of a pair of trousers, said pocket having the usual button for closing the mouth thereof, said wallet comprising two foldable portions adapted to be folded together and having outer free edges lying adjacent each other when said portions are in folded position, a flexible and elongated fastening tab secured to one of said foldable portions adjacent its free outer edge and extending outwardly therefrom and provided with a button hole therein and a relatively short tab secured to the other foldable portion adjacent its free outer edge and provided with a horizontal slot therein, said elongated tab being adapted to be drawn through said slot to force said foldable portions towards each other and said tab also being adapted to be buttoned by means of its button hole to the button on the pocket of the trousers to prevent unauthorized withdrawal of said wallet from said pocket.

2,609,856
WHEEL
Clyde R. Paton, Birmingham, Mich.
Application January 9, 1951, Serial No. 205,148
4 Claims. (Cl. 152—50)



1. In a vehicle wheel, a wheel rim having outwardly flaring opposite side flanges, a tire retainer rim encircling said wheel rim having outwardly flaring opposite side flanges substantially complementary to said first side flanges, a pair of separate cushioning rings interposed respectively between flaring flanges of said wheel rim and corresponding flaring flanges of said tire retainer rim to oppose both compression and shear forces, said cushioning rings being displaceable to allow limited rotary movement of said rims relative to each other, aligning apertures in one pair of said corresponding flanges to receive a valve stem and extended substantially tangentially to the radius of said rims to allow said limited movement without shearing the valve stem, and means securing said cushioning rings to said wheel rim and tire retainer rim.

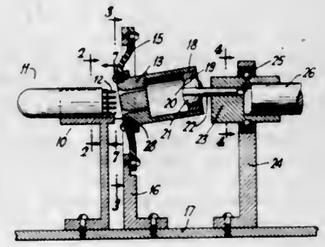
2,609,857
AUXILIARY AIR TANK FOR AUTOMOBILE TIRES
Harry G. McQuiston, Emporia, Kans.
Application January 20, 1947, Serial No. 723,135
1 Claim. (Cl. 152—418)



In a rotatable wheel having a tire, a tube in the tire provided with an air inlet conduit, and a hollow, perforated hub cap, presenting an air pressure tank, all mounted on the wheel for rotation therewith; a tubular support secured to the hub cap therewithin in register with the perforation thereof and having a first radial opening communicating with the hub cap tank and a second radial opening communicating with the conduit, said conduit extending through the hub cap; an elongated, hollow housing within the support and provided with an outlet port extending to the

atmosphere, a first external, annular groove registering with said first opening, a second external, annular groove registering with said second opening, an internal dampening chamber, a radial hole placing the chamber in register with said second external groove, an internal, annular groove, and a radial duct interconnecting the internal groove with said first external groove; a first valve in the housing on one side of said chamber and provided with spring means for yieldably holding the same biased toward a position closing the chamber from said internal groove; and a second valve in the housing, separate from the first valve, on the opposite side of said chamber and provided with spring means for yieldably holding the same biased toward a position closing the chamber from said outlet port, said valves being reciprocable on the longitudinal axis of the housing toward the outlet port against the action of their respective springs to place said chamber into register with the hub cap and with the atmosphere respectively.

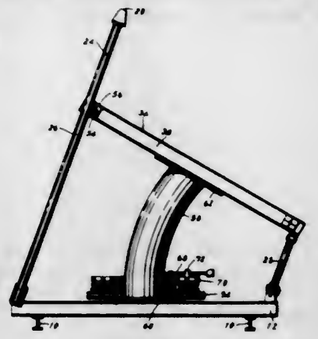
2,609,858
LEAD STRAIGHTENING MACHINE
William T. Engel, Union, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1948, Serial No. 68,337
14 Claims. (Cl. 153—32)



1. An apparatus for straightening contact pins of an electrical device comprising means for supporting and guiding said device in a predetermined path, and means mounted in said path for receiving said contact pins, said last-named means including a die, said die having openings constructed with mouths substantially larger than the cross-sections of said contact pins and with inwardly inclined walls leading from said mouths, a resilient support for said die and an eccentric power transfer device connected to said die whereby said die is eccentrically deflected for srtaightening said pins.

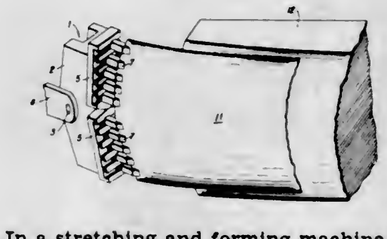
2,609,859
METHOD AND APPARATUS FOR BENDING PIPE
Frederick A. Fichtmueller, Staten Island, N. Y., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application May 19, 1948, Serial No. 27,978
7 Claims. (Cl. 153—40)

4. An apparatus for bending pipe comprising, in combination, a base member, pipe holding means operatively secured to said base member intermediate the ends thereof and adapted to hold one end of a length of pipe to be bent, a stress applying member, pipe holding means operatively secured to said stress applying member intermediate the ends thereof and adapted to hold the other end of said length of pipe and a pair of force applying means interconnecting the ends



of said base member and the ends of said stress applying member.

2,609,860
JAW HOLDER
James H. Kindelberger, Pacific Palisades, Calif., assignor to North American Aviation, Inc.
Application March 7, 1949, Serial No. 80,056
9 Claims. (Cl. 153—48)

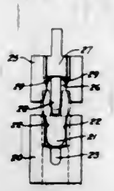


8. In a stretching and forming machine of the type having jaws for gripping a sheet of material, stretching the same to about its yield point, and forming it about a curved die; a jaw holder adapted to extend in a direction generally along an edge of said sheet, a plurality of jaws carried by said holder and projecting toward said sheet, means on said holder for adjustably positioning said jaws laterally of said holder in a plane generally transverse to the plane of the sheet and into positions corresponding to the curve of the sheet when in its formed position and means for retaining said jaws in their adjusted positions on said holder during the stretching and forming operation.

2,609,861
DIES FOR MAKING TRUCK LEVER CONNECTIONS
Oscar Otterson, Butler, Pa., assignor, by mesne assignments, to Schaefer Equipment Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 28, 1950, Serial No. 141,105
2 Claims. (Cl. 153—49)

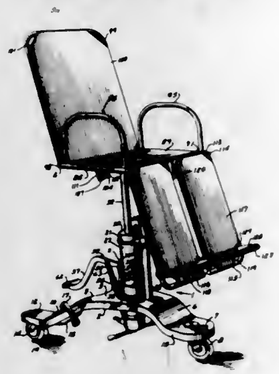
1. Cooperating upper and lower dies for shaping a heated metal truck lever connection blank having an elongated body with a pair of longitudinally extending spaced jaws at each end, the lower die being provided in its top with a recess extending lengthwise thereof and having longitudinally extending slots at its opposite ends extending downward from the bottom of the recess, and the upper die having an elongated central portion adapted to engage the body of the blank

and press it down into the recess to curve the body transversely, the end portions of the upper die being provided with depending tongues above said slots adapted to pass between the jaws in



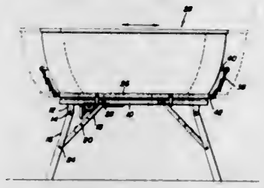
each pair, and said end portions also having shoulders on opposite sides of the tongues for engaging said jaws to press them down into said recess as said tongues enter said slots.

2,609,862
HOSPITAL CHAIR
Marion L. Pratt, Topeka, Kans., assignor, by direct and mesne assignments, to The Marion Chair Company, Inc., Topeka, Kans., a corporation of Kansas
Application August 21, 1946, Serial No. 691,992
2 Claims. (Cl. 155—30)



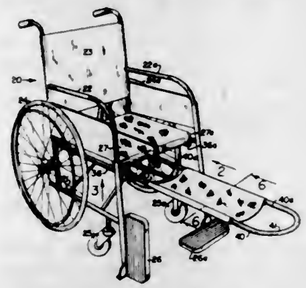
1. A device of the character described including a plurality of relatively thin hinge sections of sheet metal reinforced at the edges and having flat supporting surfaces forming a body supporting member adapted to substantially conform to the plane of a mattress of a bed, the side edges of said sections being of substantially uniform thickness, means for locking said sections in selected hinged relation, a base, an hydraulic lifting means on the base for supporting the body supporting member and providing vertical movement thereto, said lifting means being centrally located to provide substantial overhanging relatively thin laterally extending portions at each side of the body supporting member which are characterized by the absence of obstructions on the top and bottom thereof, and rollers on the base for moving same bodily to position the lifting means alongside of the bed, whereby said portions may overlie the edge of a bed and be lowered to depress the mattress thereon, said overhanging portions of the body supporting member being relatively thin whereby small depression of the mattress thereunder positions the flat supporting surfaces substantially on a level with the remainder of the mattress for sliding movement of a patient from one to the other of the supporting surfaces and mattress without lifting of said patient.

2,609,863
BASSINET ROCKER
Joseph Paulich, Koehler, N. Mex.
Application October 28, 1949, Serial No. 124,082
3 Claims. (Cl. 5—109)



2. A bassinet rocker comprising a substantially rectangular base, a carriage superposed on said base and mounted for sliding movement thereon, a bassinet detachably secured to said carriage and slidable therewith, said carriage and said base having closed end troughs in adjacent portions of their opposing walls, a bearing member received between said troughs, the length of sliding movement of said carriage on said base being limited by the length of said troughs, brackets on said carriage engaging the underside of said base to prevent vertical movement therebetween, operating means mounted on said base and operatively connected to said carriage effecting sliding movement of said carriage, said operating means including a rotatable power shaft and means for operating said shaft mounted on the base, a linkage connecting said power shaft to said carriage for imparting reciprocatory motion thereto, said linkage including a lever terminally pivoted to said base, a connecting rod terminally pivoted to the other end of said lever and to said carriage and driving means connecting said power shaft to said lever intermediate its ends, said driving means comprising a crank on said power shaft, a connecting rod journaled on said crank and said lever, said last connecting rod comprising pivoted sections.

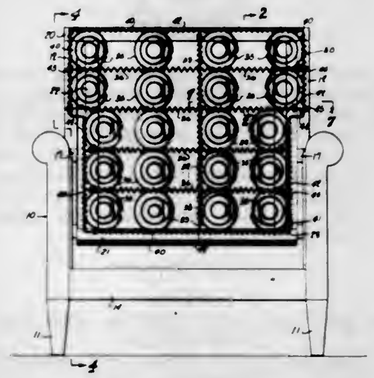
2,609,864
LEG SUPPORT FOR WHEEL CHAIRS
Charles C. Gates, Jr., Denver, Colo.
Application July 3, 1950, Serial No. 171,882
14 Claims. (Cl. 155—165)



1. In a chair having a seat foldable about a longitudinal axis substantially centrally thereof, a tubular member disposed below the seat coaxial with said axis, a pair of tubular members disposed below the seat, on opposite sides of the first named tubular member, and equidistant and parallel thereto, an elongated U-shaped frame having parallel leg portions adapted to telescope, selectively, in the first named tubular member, and one of said pair of

members, whereby the frame may be disposed on either side of the longitudinal axis of the chair to support either the right or left leg of a user, and means extending between portions of the legs of the frame adapted to engage and support a leg of the user.

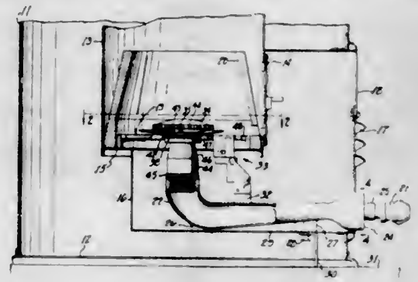
2,609,865
SPRING STRUCTURE
Arless J. Horton and William D. Gaston, Hickory, N. C.
Application April 7, 1949, Serial No. 86,026
7 Claims. (Cl. 155—179)



1. A coiled spring unit for the back frame of an upholstered chair, sofas, and the like comprising a plurality of spaced rows of coiled springs, a border wire surrounding the rows of coiled springs, a plurality of coiled wires disposed around the border wire and being interlaced with the outer edges of the front ends of the coiled springs, a plurality of coiled wires extending transversely of the unit and each coiled wire being interlaced with the proximate edges of the front ends of the coiled springs, a substantially rigid, straight reinforcing wire secured to and extending from one edge of the coiled spring unit to the other for reinforcing the center portion of the coiled spring unit, a plurality of coiled wires extending transversely of the unit and each coiled wire being interlaced with the proximate edges of the rear ends of the coiled springs, a rod encircled by each of the last-named coiled wires and means for securing the ends of the rods to the back frame.

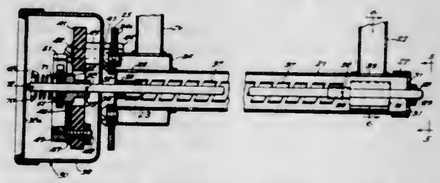
2,609,866
GAS BURNER
Richard C. Wright, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application July 11, 1949, Serial No. 104,045
4 Claims. (Cl. 158—7)

1. In a burner for gaseous fuels: a burner head comprising a top member, a bottom member, means vertically positionable on said bottom member, and an air deflecting ring supported on said means; said top member comprising an inverted dished plate having a circumferential, radially corrugated, horizontal flange; said bottom member comprising an upright dished plate having a circumferential, radially corrugated horizontal flange and a downwardly extending inlet collar concentric with and smaller than said flanges; said inlet collar being formed with an upwardly converging conical inner surface and a grooved cylindrical outer surface; said means being adapted to surround said collar closely and rest in an annular groove in said surface; said top member being axially aligned with said bottom member and rotationally fixed with respect to said bottom member whereby the depressed



corrugations of said top member flange will register with the depressed corrugations of said bottom member flange to form horizontal, radial, gas outlet parts; said air deflecting ring having a continuous upwardly diverging conical surface from said means to a diameter greater than the diameter of said top and bottom members.

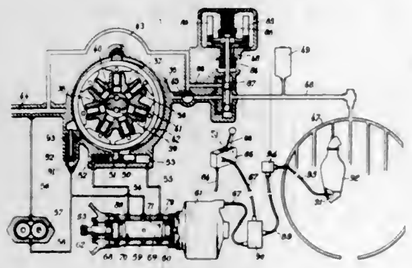
2,609,867
THERMOSTATIC SAFETY CONTROL FOR BURNERS
Alick Clarkson, Itasca, Ill., assignor of one-half to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware
Original application April 28, 1948, Serial No. 23,728. Divided and this application February 10, 1950, Serial No. 143,529
5 Claims. (Cl. 158—28)



1. An automatic outfire control device comprising a conduit having a lateral intake port near one end and adapted to be connected with the combustion chamber of a furnace, the other end of said conduit being adapted to be connected to the intake side of a blower, whereby hot gases may be withdrawn from such furnace into said conduit, a bimetallic thermo-responsive elongate helical element disposed within said conduit and co-axial therewith, one end of said element being fixedly anchored against rotation relatively to said conduit, a shaft extending axially through said element and connected to the other end thereof for rotation therewith, a damper carried by said shaft and having a curved surface arranged concentric with the inner surface of said conduit for movement across said intake port to variably constrict the same as the temperature of said thermo-responsive element increases, said curved surface of the damper being of smaller radius than that of the bore of said conduit so that when the damper is in fully closed posture it is still slightly open, thus insuring that some hot gas will flow through said conduit even when the damper is closed, and an air-intake port leading into said conduit for admitting air from the ambient atmosphere,

said air-intake port being located adjacent the unanchored end of said thermo-responsive element so that the air entering the conduit therethrough traverses said element to prevent overheating thereof.

2,609,868
FUEL SUPPLY CONTROL FOR GAS TURBINES
Frederick H. Carey, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application August 4, 1947, Serial No. 766,003
In Great Britain February 24, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 24, 1965
3 Claims. (Cl. 158—36)



1. A control valve for use in a fuel system for an aircraft internal combustion turbine engine, in which fuel system a pressure-fluid operable shifter is operatively connected to decrease or increase the effective fuel supply, said valve comprising two concentric, rotative sleeves, one of said sleeves constituting a follower sleeve arranged for connection to and for rotation at a speed corresponding to the speed of the engine, and the other of said sleeves constituting a control sleeve and being arranged for rotation at a speed which is variable at will, but constant at any selected speed, means so to rotate said control sleeve at any selected speed within a range embracing the operative speeds of the follower sleeve, a fixed central core, affording supply and drainage connections, respectively, each of limited angular extent, within the inner sleeve, and a casing surrounding the outer sleeve and defining axially spaced annuli pressure connected to the shifter to effect, respectively, opposite movement thereof according to which annulus is pressurized, the two sleeves being complementally ported, in registry with each annulus, and each port registering, as it rotates, alternately with the pressure supply and the drainage connections, the ports for registry with one annulus being angularly spaced relative to those for registry with the other annulus, whereby to determine the connection of one or the other annulus to the pressure connection, and the other to the drain connection, in accordance with which of said two concentric sleeves tends to overrun or to lag behind the other.

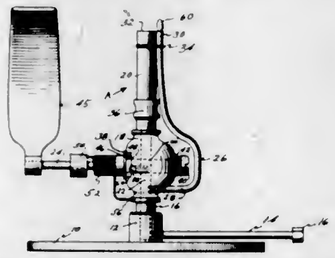
2,609,869
AIR ADMISSION DIRECTOR FOR OIL BURNERS
Thomas W. Murphy and James M. Carroll, Narberth, Pa., assignors to Monarch Manufacturing Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application December 21, 1950, Serial No. 201,916
2 Claims. (Cl. 158—76)

1. A stabilizer assembly for an oil burner comprising a sheet metal plate, said plate having its periphery formed and shaped to provide an outer annular array of substantially helicoidal sheet metal vanes to impart rotation to air flowing therebetween, having an inner portion formed and shaped to provide an inner annular array of substantially helicoidal sheet metal vanes to impart rotation to air flowing therebetween in a direction opposite to that imparted by the outer vanes, having an annular blank portion separating the two vaned annular portions and pro-



vided with openings for the passage of insulating tubes for ignition electrodes, and having a blank portion within the inner vanes provided with a central opening for the passage of a fuel nozzle assembly, and a substantially cylindrical member extending axially of the plate from the blank annular portion thereof in the direction of air flow to provide a barrier separating the oppositely rotating air flows.

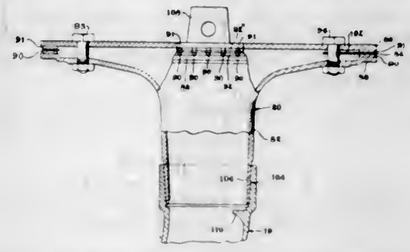
2,609,870
LABORATORY GAS BURNER AND VALVE OPERATOR
Leon Riebman and Samuel Lambert, Philadelphia, Pa.
Application September 16, 1949, Serial No. 116,058
2 Claims. (Cl. 158—111)



1. A laboratory gas burner having a base, a hollow socket on said base, a gas valve body supported by said socket, a barrel supported at one end of said valve body and in communication therewith, a valve disposed within the interior of said valve body to control the supply of gas to said barrel, a pilot tube having one end adjacent the free end of said barrel and having its other end in constant communication with the interior of said valve body upstream with respect to said valve, means for supplying gas to the interior of said socket, a torsion spring, said valve being urged by said torsion spring to a closed position, and a spring-pressed ball detent carried by said valve body, said detent being adapted to maintain said valve in fully open position against the action of said torsion spring.

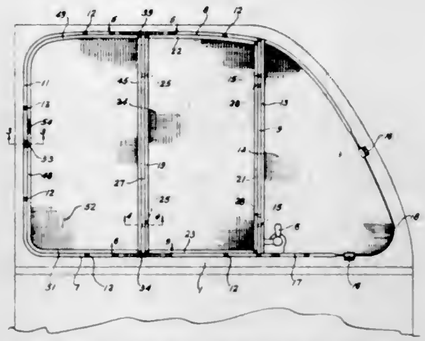
2,609,871
GAS BURNER WITH VERTICALLY SPACED PORTS AND INTERIOR BAFFLE
Isaac Vernon Brumbaugh, Clayton, Mo.
Application May 1, 1947, Serial No. 745,138
11 Claims. (Cl. 158—114)

10. Burner apparatus comprising a tube for supplying fuel, a burner head to which said fuel is delivered and which is formed with a plurality of rows of superimposed substantially horizontally extending passages leading to a plurality of rows of superimposed and individual burner port openings so that a plurality of rows of superimposed individual burner flames are directed substantially horizontally outward from said burner; said burner head comprising an upwardly flaring substantially funnel shaped lower member, having a relatively small lower portion, a substantially cylindrical intermediate portion flaring outwardly to merge with a substantially horizontal upper portion formed as an annular ring; a substantially annular spacer superimposed on said annular ring shaped portion and formed with a plurality of inwardly extending ears; a substantially flat and substantially horizontal closure



member positioned above, secured to the lower member and spaced from said lower member so as to form a chamber between said lower member and said closure member, said plurality of rows of superimposed substantially horizontally extending passages being formed between the substantially horizontal peripheral edges of said lower member and said closure member; a plurality of bolts extending through said closure member, through said ears of said spacer member and through said substantially horizontal ring portion of the lower member to secure said members together; and a curved mixing tube having a socket into which the lower portion of the lower member of the burner fits and also having means including an interior baffle for equalizing the distribution of fuel gas within the burner head.

2,609,872
AUTOMOBILE SCREEN
Arnold K. Arthur, Rochester, N. Y.
Application June 30, 1951, Serial No. 234,635
10 Claims. (Cl. 160—183)



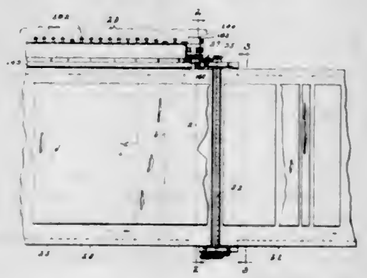
1. An automobile screen comprising a generally rectangular supporting frame attachable to the window frame of an automobile door, said supporting frame including top and bottom rails and vertical rails at its front and rear ends, a central screen panel including a vertical rail positionable adjacent and in rear of the front vertical rail of the supporting frame and having means removably and interlockingly engageable with said front vertical rail of the supporting frame, the central screen panel including a second vertical rail, and adjustable means holding said second rail interlocked with said top and bottom rails of the supporting frame.

2,609,873
DRAPERY PLEATING
Douglass R. Falkenberg Lakewood, Ohio
Application January 8, 1949, Serial No. 69,871
9 Claims. (Cl. 160—348)



1. A tape for attachment to drapery fabric to facilitate pleating of the latter comprising a panel of stiff foldable fabric material having indicia on one face for a series of spaced vertical stitch lines for attachment of the tape to the drapery fabric, said indicia including indicia for the attachment of the tape at its side edges, the tape being also scored on the opposite face to provide fold lines, the score lines alternating with the stitch indicia and being substantially parallel therewith, the stitch indicia intermediate the "opposite face" score lines being also score lines, the tape upon the two opposite sides of each "opposite face" score line being formed with a pair of aligned openings for the passage and seating of a fastener for holding bunched tape material formed by the folding thereof along the "opposite face" score lines.

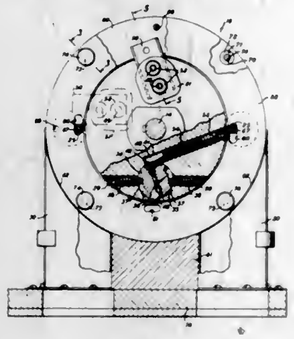
2,609,874
VENEER TRIMMER
Ettore Pedron, Eugene, Oreg.
Application June 12, 1947, Serial No. 754,157
13 Claims. (Cl. 164—49)



1. In a veneer sheet trimmer, the combination with a frame, a vertically movable knife thereon, a movable endless conveyor for feeding sheets to the knife, an endless link belt at one side of the conveyor movable with the conveyor, separate power sources for driving the conveyor and belt and for reciprocating the knife, the first comprising a normally engaged clutch and the second comprising a normally disengaged clutch, interconnections for reversing the disposition of said clutches, a tripping means located in juxtaposition to said belt for actuating said interconnections, of laterally adjustable selectors spaced on the belt and manually adjustable into set positions with respect to predetermined cutting lines on the transported veneer sheet serving to en-

gage and to operate the tripping devices to effect the temporary halting of the conveyor and belt and to reciprocate the knife in accordance with the presentation of a selected line of severance of the sheet beneath the knife.

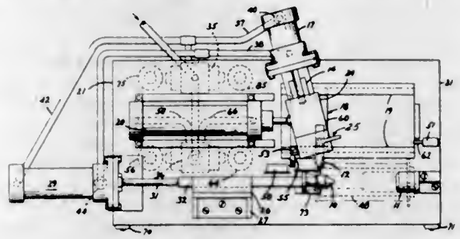
2,609,875
CUTTING APPARATUS
Nicholas Zuck, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 7, 1948, Serial No. 53,221
2 Claims. (Cl. 164—60)



1. An apparatus for cutting elongate material into predetermined lengths comprising a rotor driven about its axis, a blade having a cutting edge, a holder for the blade, pivoted means mounting the holder for rocking movement about its axis on the rotor adjacent the periphery thereof and to move in a circular path with the rotor, a stator having annular members, aligned material receiving apertures therein, disposed closely adjacent the sides of the path of the blade concentric with the rotor to maintain the blade against flexing, the apertures holding the material on opposite sides of the path, means to limit rocking movement of the holder to an area between its normal position, when the cutting edge of the blade will extend substantially radially of the axis of the rotor, and its operated position when the cutting edge of the blade will have moved through increasingly variable shearing positions of increased angles from the normal position of the cutting edge, and means applying a force to the holder which is sufficient to position the blade in its normal position when first engaging the material but insufficient to withstand the resistance of the material against the blade to cause the blade to rock with the holder into its various shearing positions to shear a length from the material.

2,609,876
BOBBIN CUTTER
Ernest K. Bauer and William E. James, Meadville, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application March 15, 1950, Serial No. 149,784
11 Claims. (Cl. 164—73)

1. Apparatus for removing a material from a package in which the material is wound about a core thereof, said apparatus comprising means for holding the package, a knife for cutting the material, means for supporting the knife so that it projects toward the core of the package when gripped by the holding means, means for moving the knife toward said core into the material, means for advancing the knife through the material along the core, and means actuated by the



knife moving means upon the attainment of a predetermined position of the knife with respect to the core for initiating actuation of the knife advancing means.

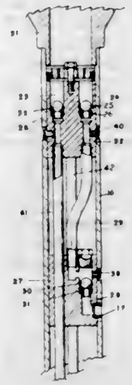
2,609,877
TAPE DISPENSER
Charles A. Hanington, Freeport, N. Y.
Application July 1, 1949, Serial No. 102,555
6 Claims. (Cl. 164—84.5)



1. A dispensing implement for use with pressure sensitive tape wound about a ring to form a roll and through which the roll rotates by a pull on the free end of the tape, which consists of a blank shaped to provide a body section, depending portions on said body, an elongated spring arm carried by one of said depending portions for yieldable engagement with the inner periphery of said ring for detachably positioning the implement on the roll so that said portions lie along the sides of the roll, a carrier extending forwardly from said body section, an upwardly and outwardly directed blade at the end of the carrier over which the tape passes for severing the tape in sections as it is drawn from the roll, and said body and said spring arm coacting under variable finger squeezing pressure to control the speed of rotation of the roll when tape is being withdrawn therefrom.

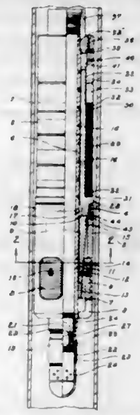
2,609,878
MULTIPLE ZONE TESTING
Erle P. Halliburton, Los Angeles, Calif., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application April 27, 1946, Serial No. 665,424
4 Claims. (Cl. 166—1)

1. Apparatus for locating the points of ingress of connate fluids into a well bore, comprising in combination, a tail pipe adapted to be lowered into the well bore, means for permitting fluids to flow from earth formations through said tail pipe, and an arrangement located within said tail pipe for entrapping samples of fluids from spaced points along the well bore during such flow, said arrangement including a plurality of spaced inlet ports all exposed to substantially the same fluid pressure in the well bore, chambers for receiving fluids from the inlet ports and for conveying fluids through said tail pipe means for preventing the passage of fluid from one to an-



other of said chambers and check valves for holding fluids in said chambers while the tail pipe is removed from the well bore.

2,609,879
PERMANENT TYPE PACKING MEANS FOR WELLS
Jack C. Webber, Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 5, 1949, Serial No. 69,305
7 Claims. (Cl. 166—12)



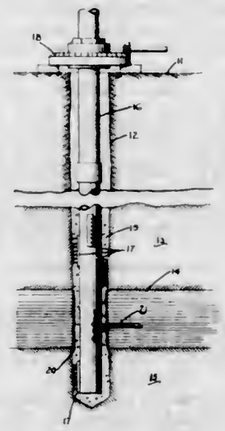
1. In a permanent type packer for a well a body member adapted to be positioned in a well casing and having an upper body section and a lower body section, said lower body section having an internal diameter greater than said upper body section, normally retracted slips for securing said body member to the casing against pressures from above and below, each of said slips being disposed in an aperture in said lower body section so that relative longitudinal movement therebetween is prevented, a mandrel extending through said body member, a slip cone disposed between said mandrel and said lower body section for effecting movement of said slips into engagement with said casing, sealing means between said mandrel and said upper body section, said mandrel and said slip cone, and said slip cone and said lower body section forming an annular chamber communicating with the upper end of said slip cone, an aperture in said mandrel providing communication between the interior of the mandrel and said chamber said mandrel having an axial passageway extending therethrough, and means for temporarily sealing the lower end of said passageway.

2,609,880
APPARATUS FOR SEALING WELLS
Joseph G. Dyer, Denver, Colo.
Application March 4, 1948, Serial No. 12,986
3 Claims. (Cl. 166—13)



1. Means used for sealing wells, comprising a container adapted to contain a sealing material and having a rip-cord seam extending longitudinally of the container, suspension means detachably connected to said container for lowering it and being connected with the rip-cord seam whereby when said suspension means is detached from said container and elevated it rips said cord from said longitudinally extending seam to open the same for discharging said contents.

2,609,881
CEMENTING WELLS
William M. Warren, Ulysses, Kans., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application November 27, 1948, Serial No. 62,366
9 Claims. (Cl. 166—22)



1. A method of cementing a tubular string in a well drilled while employing drilling mud

whereby a mud cake is formed on the walls of the well, said well penetrating a producing formation, comprising the steps of removing by abrading a substantial portion of said mud cake from said walls only at zones other than at said formation, placing a sealing fluid on said walls at both zones and said formation, and permitting said sealing fluid to set.

2,609,882

COMPOSITION FOR CEMENTING WELLS

Bryan E. Morgan and George K. Dumbauld, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application August 31, 1950, Serial No. 182,622
14 Claims. (Cl. 166—22)

14. The method of forming a cement plug in a well drilled into subsurface formations wherein a drilling mud containing an additive adversely affecting setting of cement has been employed which comprises introducing into said well an aqueous inorganic cement slurry containing from 0.5% to 10% by weight of activated charcoal based upon the dry cement in the slurry.

2,609,883

ROTARY WING BLADE

Elliot Daland, Wallingford, Pa., assignor, by mesne assignments, to Piasecki Helicopter Corporation, Morton, Pa.

Application November 29, 1946, Serial No. 713,039
5 Claims. (Cl. 170—159)



1. In a lift rotor for a rotary wing aircraft, an elongated blade comprising a series of contiguous spanwise extending sections, the mass distribution of said blade being such that the centrifugal force generated by the mass of any one of said sections provides a force component equal and opposite to the aerodynamic lift generated at said one section when said blade is operated at a predetermined operational speed of rotation and coning angle.

4. In a lift rotor for a rotary wing aircraft, an elongated blade comprising a series of contiguous spanwise extending sections, a step tapered tube, the inboard end of said tube being of greater diameter than the outboard end, a leading edge, a trailing edge, said leading edge being step tapered in the same direction and magnitude as the step tapered tube, each step of said leading edge being parallel to the axis of said tube and each succeeding outboard step being progressively closer to the axis of said tube, said trailing edge being parallel to and equidistant from the axis of said tube throughout the span of said blade.

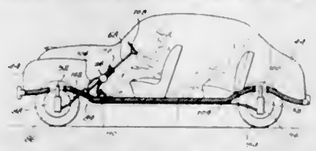
2,609,884

STABILIZER AND COMPENSATOR FOR VEHICLES ON CURVED ROADS

Manuel de Montalvo y Garcia-Camba, Madrid, Spain

Application December 14, 1949, Serial No. 132,899
In Spain March 18, 1949
8 Claims. (Cl. 180—41)

1. A self-propelled vehicle having a body, four wheels arranged in pairs, respectively, on opposite sides of the body, and a steering wheel with shaft being in steering connection with the wheels, comprising in combination, four hydraulic units including each a cylinder and a piston slidably arranged in said cylinder, said hydraulic units being interposed between one of the wheels, respectively, and the body; a first hydraulic device including a first cylinder and a first piston slidably arranged in said first cylinder; a first connection between said first cylinder and said cylinders of said pair of hydraulic units arranged near the pair of wheels arranged on one of the sides of the body; a first fluid arranged in said first connection and said cylinders connected thereto; a second hydraulic device including a second cylinder and a second piston



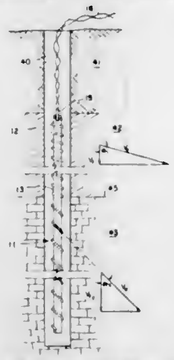
slidably arranged in said second cylinder; a second connection between said second cylinder and said cylinders of said pair of hydraulic units arranged near the pair of wheels arranged on the other side of the body; a second fluid arranged in said second connection and said cylinders connected thereto; a conical member slidably and eccentrically arranged on the shaft of the steering wheel, said conical member being connected to the shaft for rotation therewith and being adapted to impart to said first and second pistons differential displacements with respect to said first and second cylinders, respectively; resilient means for urging said conical member into one of its end positions; and means for sliding said conical member along the shaft of the steering wheel in counter-action to said resilient means.

2,609,885

SEISMIC-WAVE GENERATION

Daniel Silverman, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application December 29, 1950, Serial No. 203,292
4 Claims. (Cl. 181—0.5)



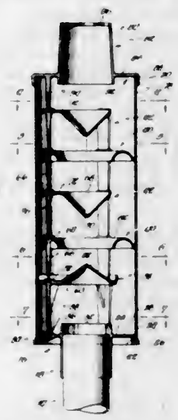
1. A source of seismic waves for seismic reflection surveying comprising an elongated vertical helix of linear explosive material, and a detonator for said explosive at one end of said helix, the pitch of said helix being adjusted to produce an effective velocity of detonation of said explosive material in the direction of the helical axis substantially equal to the seismic-wave propagation velocity in an immediately surrounding wave-propagating medium.

2,609,886

MUFFLER WITH CONCAVE BAFFLES

Cline Harry Harmon, Waterloo, Iowa, assignor to Waterloo Foundry Company, Waterloo, Iowa, a copartnership

Application July 3, 1948, Serial No. 36,965
11 Claims. (Cl. 181—68)



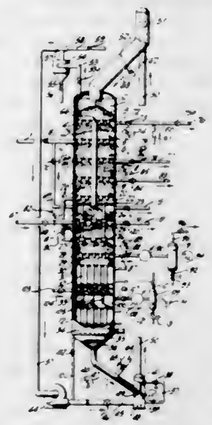
4. A muffler for an exhaust pipe, comprising in combination, a housing having an inlet and outlet end and passages through said ends, a plurality of annular baffle members defining central open areas secured in said housing in spaced relation longitudinally therein, said annular baffle members having downwardly facing concave surfaces directed toward said inlet end and a plurality of axially central baffle members having substantially solid portions in line with said central open areas and defining substantially annular spaces between themselves and the housing, said central baffle members being alternately positioned with respect to said annular baffle members.

2,609,887

ADSORPTION PROCESS AND APPARATUS

Clyde H. O. Berg, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application April 30, 1949, Serial No. 90,708
22 Claims. (Cl. 183—4.2)



1. A process for separating a gaseous mixture which comprises passing a substantially compact moving bed of solid granular adsorbent by gravity successively through a separation zone, a desorption zone, a seal gas removal zone and a cooling zone, dividing said adsorbent into a first and second stream for passage through said separation zone as independent and substantially compact moving beds, contacting one adsorbent stream with said gaseous mixture, contacting the other adsorbent stream with another gas stream, subsequently combining said first and second adsorbent streams upon withdrawal from said separation zone prior to introduction into said desorption zone, heating the adsorbent containing adsorbed constituents within said desorption zone, contacting the heated adsorbent with a countercurrent flow of stripping gas to desorb the more readily adsorbable constituents as a rich gas leaving a lean adsorbent, passing said lean adsorbent through said seal gas removal zone and subsequently through said cooling zone, passing a portion of the unabsorbed lean gas fraction of said gaseous mixture through said cooling zone countercurrent to said lean adsorbent, passing a portion of said stripping gas from said desorption zone concurrently with said adsorbent into said seal gas removal zone, maintaining said seal gas removal zone at a pressure below the pressure of said desorption and cooling zones, combining said portion of said lean gas with said portion of stripping gas in said seal gas removal zone, removing the mixture thus formed as a seal gas therefrom and employing another portion of said lean gas to suspend cool lean adsorbent removed from said cooling zone for conveyance back to said separation zone.

5. An apparatus for separating a gaseous mixture which comprises a substantially vertical column provided with a separation section, a heating section, a seal gas removal section, and a cooling section at the bottom of said column, means for transporting cool lean adsorbent from said cooling section to the top of said column for passage therethrough as a compact moving bed, means for introducing a stripping gas into said heating section and purge gas into said cooling section, means for removing said purge gas and part of said stripping gas as a seal gas from said seal gas removal section, means for removing more readily adsorbed gases from said desorption section as a rich gas product, inlet means for introducing said gaseous mixture into said separation section, outlet means for removing a substantially unadsorbed lean gas product from said separation section, said means for transporting said cool lean adsorbent including means for suspending said adsorbent in a portion of said unadsorbed gas for conveyance thereof as a suspension.

2,609,888

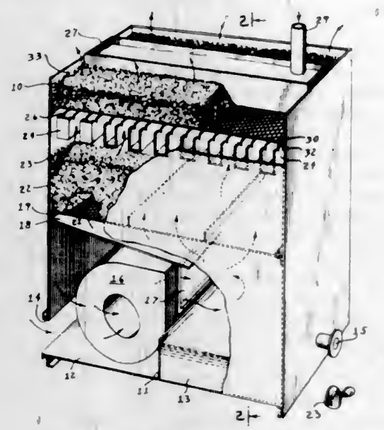
LIQUID-GAS CONTACT APPARATUS

William J. Beringer, Dayton, Ohio, assignor to Aqua-Therm, Inc., Dayton, Ohio, a corporation of Ohio

Application April 1, 1950, Serial No. 153,413
2 Claims. (Cl. 183—14)

1. A liquid-gas contact device, including a casing open at the top thereof, a liquid inlet trough extending across the top of said casing, and having longitudinally spaced apart perforations in its bottom, a series of spaced apart liquid distributor pans in transverse underlying relation to said trough and positioned to receive liquid from respective perforations in said trough, a series of longitudinally spaced apart V-cuts in each said pans through which the liquid in the pans may overflow and drip downward in the

casing, a bed of packing material beneath said distributor pans upon which the liquid drips in a plurality of streams at predetermined points over the area of the bed, said packing material comprising random positioned saddle shaped elements to accomplish a variable intermingling and numerous changes of direction of said liquid streams as they descend through the packing bed,



a sump in the bottom of said casing to collect the liquid and an outlet from said sump, and means for directing a countercurrent of gas upwardly through said packing bed and thence between said pans for discharge out of the top of the casing, said gas current being constrained by said saddle elements to follow substantially the same flow path as said liquid streams but in a reverse direction.

2,609,889

WITHDRAWN

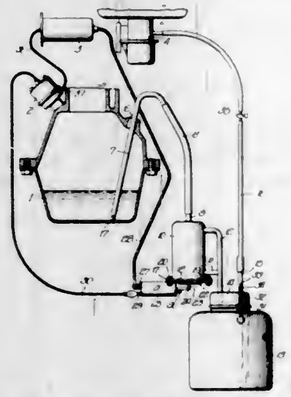
2,609,890

OIL REMOVAL APPARATUS

Warren G. Millar, Springfield, Ill., assignor to Filtaire Products, Inc., Springfield, Ill., a corporation of Illinois

Application June 15, 1951, Serial No. 231,878

6 Claims. (Cl. 184—1.5)



1. In apparatus for removing oil from the crankcase of an internal combustion engine having an oil test opening in the crankcase, an intake manifold, a high tension coil and a distributor, the combination of a tube for insertion in the oil test opening and into the oil in the crankcase, a diaphragm chamber, a first conduit connecting said tube with said diaphragm chamber, a sealed receptacle, a pipe connecting said diaphragm chamber with said sealed receptacle, a second conduit connecting said sealed receptacle with the intake manifold, whereby upon operation of said engine a vacuum will be created in said sealed receptacle thereby to force oil from the crankcase through said diaphragm chamber into said sealed receptacle, and means connected to said distributor and high tension coil and operable by said diaphragm chamber to interrupt the operation of said engine when substantially all the oil is removed from said crankcase.

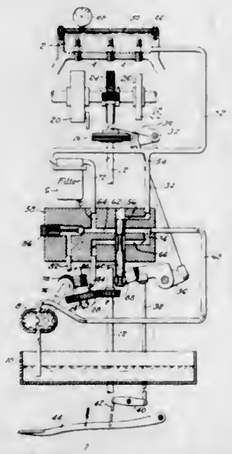
2,609,891

LUBRICATING APPARATUS

Otto R. Haas, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application April 30, 1948, Serial No. 24,122

6 Claims. (Cl. 184—6)



1. An apparatus for metering lubricant to an operating machine part, driving means for which is rendered operative and inoperative by a control member, having a reservoir for the lubricant, means for supplying pressure to the lubricant, a restrictive nozzle connected to the reservoir for delivering a minute quantity of lubricant to the operating part and a filter through which lubricant is supplied to the reservoir, in combination with a two-way valve operatively connected to the control member having ports and lubricant connections for supplying lubricant under pressure from the pressure supplying means to the filter when the driving means is rendered operative and for venting the reservoir between the filter and the reservoir when the driving means is rendered inoperative.

2,609,892

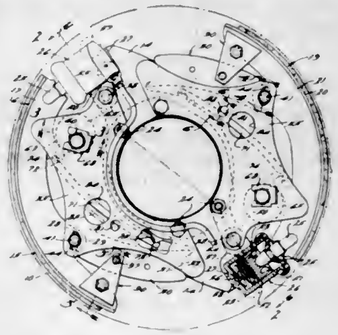
BRAKE

Robert F. Smith, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application October 26, 1948, Serial No. 56,555

12 Claims. (Cl. 188—78)

12. In a brake assembly, a rotatable brake drum having an axially extending braking surface, a support, a spider member detachably connected to said support, a pair of spaced-apart, parallel, plate members projecting from the periphery of portions of said spider member and arranged to extend in a plane normal to the braking surface of said drum, a pair of link anchor seats formed on the side edges of said spider members between said plates, a pair of indentations formed in the side edges of each of said plate members, brake shoe actuating motors mounted in the indentations in said plate members, projections on said motors connected to said plate members and said spider, movable plunger members adapted to be actuated by said motors having thrust transmitting portions arranged to extend in a plane located between and parallel to said plate members, a pair of oppositely arranged brake shoes each having a flange portion adapted to be frictionally engaged with the braking surface of said drum and a web portion extending normal to and disposed centrally of the width of said flange portion and having portions



projecting between and embraced by said plate members for guided movement relative thereto, means connecting a web portion of each shoe to a plunger member thrust transmitting portion, a pair of links positioned between and guidingly embraced by said plate members, each link having one end pivotally connected to the web portion of a brake shoe, the other end of each of said links being pivotally connected to a link anchor seat, resilient means positioned between said plates and connected between said spider member and an edge of each of said shoe web portions adapted to urge said shoes to retracted positions, and plate means frictionally embracing the side surfaces of said shoe web portions and said links to restrain relative pivotal movement between the shoes and links, and cam means mounted on and arranged to extend between said plate members having portions adapted to be engaged with the edges of the shoe web portions to limit the clearance between said shoes and said drum.

2,609,893

SEALING STRUCTURE

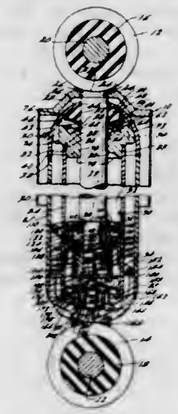
Fred Glassford, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application January 18, 1950, Serial No. 139,218

14 Claims. (Cl. 188—88)

14. In a shock absorber, the combination with a reservoir member including a tubular main body portion having a substantially constant inside diameter and an open end, and including a cap at the opposite end of said main body portion provided with a piston-rod opening of a lesser dimension than said constant inside diameter, said cap having annular wall portions of

ever decreasing inside diameter located between said opening and said main body portion and said cap being joined fluid-tight to the opposite end of said main body portion, and a piston rod seal introducible through said open end of said main body portion for engagement with the inside of said annular wall portions adjacent the piston rod opening, of a sub-assembly constituted by a pressure cylinder and a rod-guide plug provided with engageable surfaces some of which



are adapted to be press-fit into reception in the pressure cylinder during fabrication of said sub-assembly to form an integrated unit, said pressure cylinder and rod-guide plug having a smaller dimension than said constant inside diameter for accommodating introduction of the integrated sub-assembly through the open end of said tubular body portion whereby the sub-assembly may be advanced into said reservoir member to bring other said plug engageable surfaces into contact with said annular wall portions.

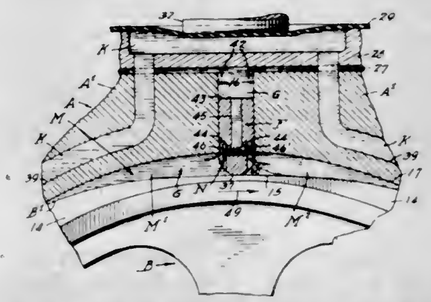
2,609,894

SELF-POWERING FLUID BRAKE

William P. Kessel and John F. Shafer, San Francisco, Calif.; said Shafer assignor to said Kessel

Application July 12, 1949, Serial No. 104,258

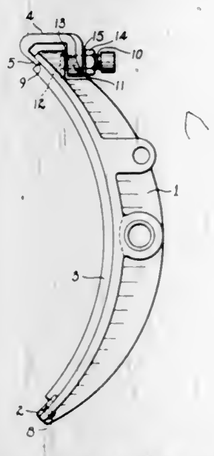
7 Claims. (Cl. 188—90)



4. In a brake of the character described: a stator having a bore defining a peripheral wall; a rotor arranged in the bore with the portions of rotor contacting the peripheral wall; the rotor having at least one pocket formed in its periphery for reception of a braking fluid; a compression gate slidably carried by the stator and movable toward and away from the rotor, including movement into the out of the pocket in the rotor; a reservoir containing braking fluid; means for de-

livering braking fluid from the reservoir to the pocket in the rotor, and including a T-shaped passageway in the gate having fluid outlets leading to opposing faces of the gate; a reciprocable shutter valve slidably carried by the gate, and having a pair of spaced-apart plates disposed on said opposing faces of the gate; means for holding the plates a predetermined distance apart; one of the valve plates being arranged to close the fluid outlet on its face of the gate when this plate is moved toward the gate; the other valve plate being arranged to close the fluid outlet on its face of the gate when this plate is moved toward the gate; the plates being movable into the braking fluid disposed in the pocket when the gate is moved into the pocket.

2,609,895
BRAKE SHOE
Howard E. Hodgson, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application February 16, 1945, Serial No. 578,188
1 Claim. (Cl. 188—234)



In combination, a brake shoe having a concave surface, a lining for said concave surface of the shoe, and securing means for the lining comprising members fixed to the shoe to engage the ends of the lining to take the end thrusts thereof, one of said members being of hooked form to hook over an end of the shoe and having a clamping bolt to clamp the same to the shoe, said hooked member bearing on said concave surface of the shoe and being adjustable lengthwise of said surface by adjustment of said clamping bolt and said hooked member at all other points having clearance from the shoe.

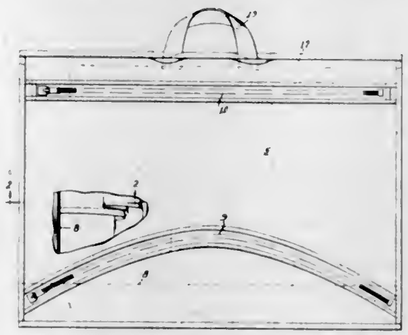
2,609,896
WINDOW PANEL CONSTRUCTION
Joseph A. Potchen, Grand Rapids, Mich., assignor to Haskelite Manufacturing Corporation, Grand Rapids, Mich., a corporation of New York
Application June 8, 1949, Serial No. 97,878
2 Claims. (Cl. 189—76)

1. A window panel comprising a core having a window-opening therein, and facing sheets of metal bonded to the faces of the core, provided with openings having integral marginal portions of angular cross-section terminating in complemental flanges in the opening in the core and contoured conformably to the window-opening, and an elastic band in which the flanges are



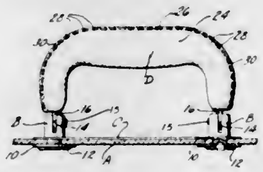
gripped having means for holding the edge of a transparent plate.

2,609,897
TRAVELING CASE FOR SHOES
Siegfried Meyer, New York, N. Y.
Application December 13, 1950, Serial No. 200,583
3 Claims. (Cl. 190—43)



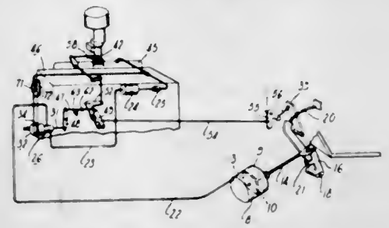
1. In a case for the transportation of shoes; front and rear walls, gussets at the lateral and bottom edges connected to the walls and forming a compartment, the front wall having an opening and a closure therefor adjacent its lower edge, and pockets within the compartment attached to the rear wall, the pockets being open at their lower ends to permit insertion of shoes with the heels directed toward the bottom gusset.

2,609,898
BAGGAGE HANDLE
William Finkelstein, Philadelphia, Pa.
Application September 16, 1949, Serial No. 116,035
1 Claim. (Cl. 190—58)



A handle means for a suitcase or the like comprising a relatively thin, flat plate, a pair of tubular socket members mounted on said plate in spaced relation to each other, a pair of perforations in said plate, a portion on each of said socket members being adapted to extend through one of the perforations in said plate and through a corresponding perforation in the top surface of a suitcase, each of said portions being further adapted to be peened over into locking position against a washer held below the said top surface of the suitcase, a slot in each of said socket members, a handle portion comprising a central cylindrical rod, bent into an inverted U-shaped configuration and provided with flattened ends, each of said flattened ends being adapted to fit into one of said slots, an opening in each of said flattened ends, openings in said socket members, said openings in said flattened ends and said openings in said socket members being adapted to receive locking pins therein for the purpose of holding said handle portion in said socket members, and a covering adapted to envelop the major portion of said handle portion.

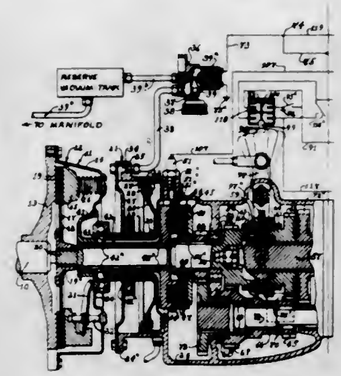
2,609,899
CLUTCH CONTROL MECHANISM
Thomas H. Thomas, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 23, 1948, Serial No. 69,578
7 Claims. (Cl. 192—.07)



1. A clutch control mechanism adapted to be included in the power plant of an automotive vehicle said plant including an internal combustion engine having an intake manifold, said clutch control mechanism comprising a pressure differential operated motor, a three-way valve for controlling the operation of said motor, fluid transmitting means interconnecting said valve with the intake manifold, and means for operating said valve including a single acting pressure differential and spring operated motor having its power element connected to one part of the valve, a conduit independent of the fluid transmitting means connecting the control compartment of the latter motor with the intake manifold of the engine of the vehicle, and force transmitting means interconnecting the accelerator of the vehicle with another part of said valve.

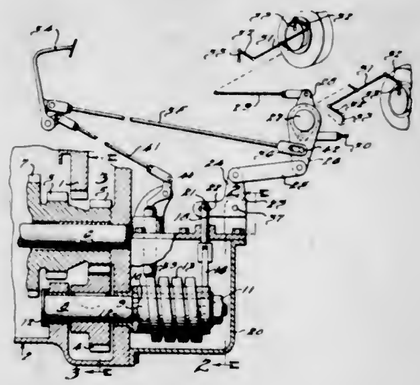
2,609,900
POWER TRANSMISSION
Carl A. Neracher and William T. Dunn, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application October 7, 1944, Serial No. 557,568
26 Claims. (Cl. 192—.098)

1. In a vehicle driving system, the combination with an engine and a driving means driven from said engine, of a change-speed transmission, a main clutch adapted drivingly to connect the driving means and the transmission, an auxiliary magnetic clutch adapted drivingly to connect the engine and the transmission in parallel by-passing relation to the main clutch electrical circuit means under control of the vehicle driver for selectively conditioning driving connection of said driving means and transmission through



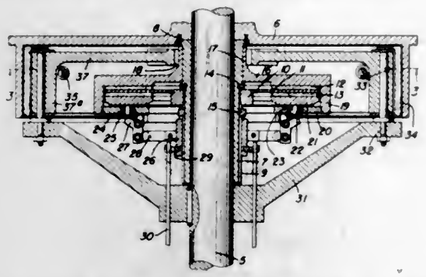
either of said clutches for starting said vehicle from rest, and automatically releasable means for facilitating drive of the transmission through said main clutch when both of said clutches are in operative condition.

2,609,901
BRAKE AND STOP MECHANISM
Carl F. Rauen, Grosse Pointe, Mich.
Original application September 19, 1938, Serial No. 230,641, now Patent No. 2,296,619, dated September 22, 1942. Divided and this application September 6, 1940, Serial No. 355,656
6 Claims. (Cl. 192—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



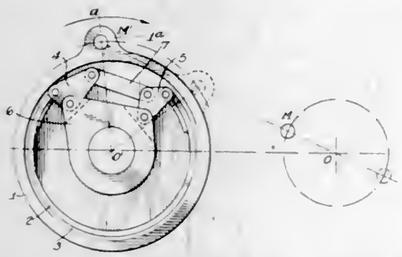
1. In a motor vehicle, a transmission having a unidirectional driving member, brake means, one-way clutch mechanism directly associated with said member and operable for actuating said brake means so as to prevent retrograde movement of the vehicle both forwardly and reversely when the transmission is arranged for driving said vehicle uphill, a device actuated at will for operating said brake means, and means comprising a shiftable part of said transmission for rendering said mechanism inoperable to actuate said brake means.

2,609,902
FRICTION CLUTCH
Leslie D. Stripling, Bay City, Tex.
Application December 15, 1948, Serial No. 65,367
3 Claims. (Cl. 192—35)



1. In combination with a drum freely rotatable on a shaft, a clutch comprising, a sleeve fixed to said drum and rotatable on said shaft, a clutch disk on said sleeve having an annular flange, a hub on said disk having a gear thereon, said disk and sleeve being relatively rotatable, an annular clutch plate in said flange splined on said sleeve for rotation therewith and sliding thereon into frictional engagement with said clutch disk, an annular member fixed in said flange, a presser ring in said flange movable therein for sliding said clutch plate into engagement with said disk and being confined in said flange by said member, means operable for moving said ring, mounting means fixed to said shaft to rotate therewith, shoe means within said drum, and arm means pivotally mounted on said mounting means and including a gear segment to mesh with said gear, said arm means being adapted upon relative rotation of said gear and said segment to bear against and expand said shoe means to grip said drum.

2,609,903
CLUTCH MECHANISM
Paul Garnier, Lyon, France; vested in the Attorney General of the United States
Application July 16, 1942, Serial No. 451,094
In France July 7, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 7, 1961
3 Claims. (Cl. 192—41)



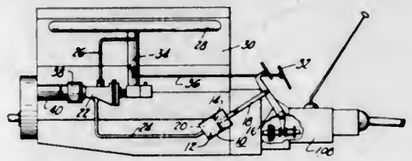
1. A one way clutch comprising a rotary driven member, an annular driving member rotatably mounted about said driven member, a flexible ring segment engageable with a major portion of the inner periphery of said annular member, means connected to said driven member and individual to the ends of said segment for initiating progressively increasing frictional pressure from one segment end to the other against the inner periphery of said annular member during the rotation of the latter in one direction and for permitting unrestricted rotation of said annular member in the opposite direction, a sleeve fixedly secured to said driven member, a pair of levers pivotally secured to said sleeve, the free ends of said levers being respectively pivoted to the ends of said segment, and a link pivotally connected to each of said levers at points eccentric of the pivot points of the levers to said sleeve.

2,609,904
ONE-WAY CLUTCH
Carl E. Swenson and Adiel Y. Dodge, Rockford, Ill.
Application February 1, 1949, Serial No. 73,876
6 Claims. (Cl. 192—45.1)



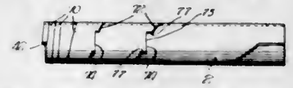
1. A friction device for use with a one way clutch comprising an elongated channel shaped housing open at one side, an elongated friction shoe in the housing slidable through the open side thereof, spring means in the housing urging the shoe therefrom, and interengaging parts on the housing and the shoe to limit relative movement therebetween.

2,609,905
CLUTCH CONTROL MECHANISM
Thomas H. Thomas, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 26, 1945, Serial No. 624,801
4 Claims. (Cl. 192—91)



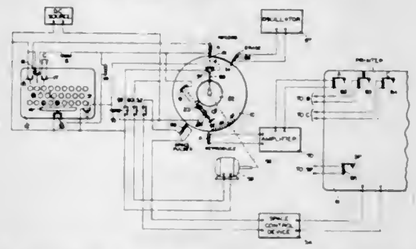
1. Power means for operating the friction clutch of an automotive vehicle, including a clutch controlling member, a pressure differential operated motor operably connected to said member, a three-way balanced valve mechanism for controlling the operation of said motor including a reciprocable valve member movable to a valve open position to effect a clutch disengaging operation of the motor, to a valve closed position to initiate a clutch engaging operation of the motor and to a valve lapped position to effect an operation of the motor to maintain the then existing engagement of the clutch, said power means further including a combined speed and acceleration controlled unit for controlling the operation of said valve member including, a drive shaft, a thrust member, a centrifugally operated speed device and an inertia operated means having separate steps of operation to initially control the movement of the thrust member relative to the operation of the centrifugal speed device to interconnect the shaft, thrust member and the reciprocable valve member.

2,609,906
SPRING TYPE CLUTCH
William F. Scott, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application December 28, 1948, Serial No. 67,718
9 Claims. (Cl. 192—107)



1. A clutch element of the coil type comprising a member having adjacently disposed coils spaced to provide a gap between contiguous portions thereof disposed at an angle of inclination to a plane normal to the longitudinal axis of the clutch element, said adjacently disposed coils having other contiguous portions in abutting relation at all times during operation of the clutch element and disposed at an angle of inclination to a plane normal to the longitudinal axis of the clutch element less than the angle of inclination of said first named portions.

2,609,907
SELF-JUSTIFYING PRINTING DEVICE
Thomas E. Lynch, Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application September 16, 1947, Serial No. 774,204
6 Claims. (Cl. 197—19)

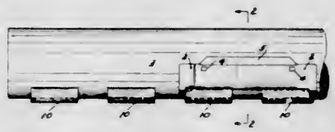


1. A printing device comprising: a closed loop magnetic record track; means for magnetically recording on said record track information corresponding to the characters and the unit spacings between characters in a line to be reproduced; means for developing a control effect dependent upon the number of said characters and the unit spacings between characters; printing means; means dependent upon said control effect for adjusting said printing means to allot a proportional part of a given line length to each character and to each unit spacing; means for reproducing said information recorded on said record track and for utilizing said reproduced information to cause said printing means to print a line of said given length containing said information; and means including magnetic erasing means for preparing and positioning said closed loop record track to record information corresponding to a succeeding line to be reproduced.

2,609,908

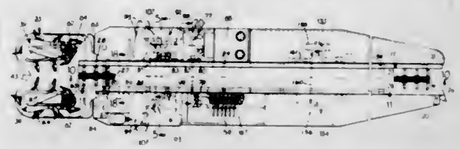
WITHDRAWN

2,609,909
LABEL GUIDING ATTACHMENT FOR TYPEWRITERS
Guy W. Martin, Birmingham, Ala.
Original application December 7, 1949, Serial No. 131,666. Divided and this application January 12, 1951, Serial No. 205,629
3 Claims. (Cl. 197—127)



2. A paper label guide for use in combination with a platen on a typewriter, comprising an oblong piece of curved thin metal, said piece having portions projecting rearwardly therefrom for holding the piece slightly separated from a platen on a typewriter when said piece is inserted adjacent the platen; and integral extensions projecting forwardly from said piece, said extensions being adapted to act as support means to hold said guide piece in position between the platen and scale indicator of a typewriter, the upper portion of the piece being the handle thereof.

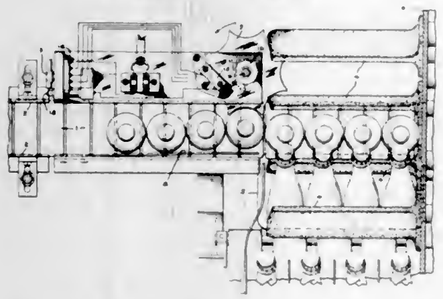
2,609,910
LOADING MACHINE
Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application July 8, 1948, Serial No. 37,553
6 Claims. (Cl. 198—8)



1. A loading machine including a frame formed of telescoping frame members one telescoping within the other, endless traveling conveyer means for conveying material longitudinally over the telescoping members of said frame, a motor for driving said endless traveling conveyer means, steerable wheel means adjacent the rear end of one of said frame members, a pair of traction wheels adjacent the front end of said one frame member, motor means for driving said traction wheels, means mounting said traction wheels for swinging movement together about generally upright axes to positions for swinging said frame laterally, power means including hydraulic motors for raising and lowering each end of said frame both independently and simultaneously with respect to the wheel means supporting the respective ends of the frame, a gathering head pivotally mounted on a horizontal axis to the outer end of the other of said telescoping frame members, gathering means on said gathering head driven from said endless traveling conveyer means and adapted to gather material and deliver it to said endless traveling conveyer means, motor means for moving said telescoping frame members with respect to each other thereby feeding said gathering head forwardly and rear-

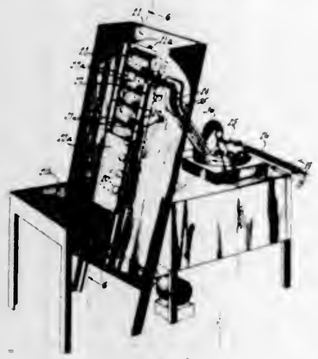
wardly, hydraulic power operated means for adjusting said gathering head on said horizontal axis including a hydraulic pump driven by said endless conveyer means and mounted on said gathering head, hydraulic motor means between said gathering head and said other frame member, and a control valve for controlling the flow of hydraulic fluid from said pump to said last named hydraulic motor means.

2,609,911
ARTICLE GROUPING MECHANISM
Allan C. Davis, Baltimore, Md.
Application March 12, 1948, Serial No. 14,457
9 Claims. (Cl. 198—31)



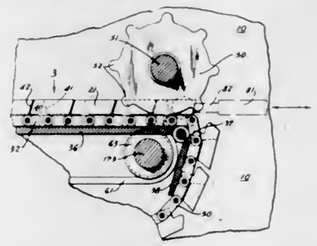
1. In an article grouping mechanism having a supply conveyor to support and convey a line of articles and a receiving conveyor and means to drive the conveyors to deliver articles in groups from the supply conveyor to the receiving conveyor, a star wheel counter in the path of articles on the supply conveyor turned one point by the passage thereby of each article, and a plurality of electrical contacts, one actuated by each point turn of the star wheel, the transfer of each group of articles being effected through one of said contacts and said driving means, when the predetermined number of articles for the group have passed the star wheel.

2,609,912
HOPPER FOR SELECTIVELY DISPENSING TUBE BASES
William T. Engel, Union, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 16, 1948, Serial No. 49,514
6 Claims. (Cl. 198—33)



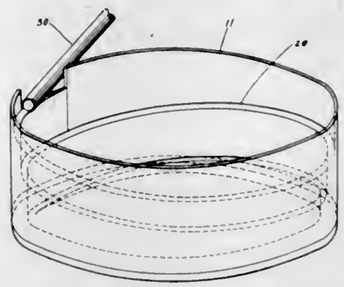
1. A conveyor system comprising means for agitating a random supply of objects, a belt extending into said supply and having transverse ribs for picking up said objects, and a plurality of tracks for conveying and orienting said objects in a predetermined manner, said means comprising pins extending outwardly from a face of said belt a greater distance than said ribs.

2,609,913
FRUIT ORIENTATION MACHINE
William A. Doering, Palo Alto, and William E. Koenig, Redwood City, Calif., assignors to S. & W. Fine Foods, Inc., San Francisco, Calif., a corporation of California
Application July 11, 1949, Serial No. 104,124
20 Claims. (Cl. 198—33)



1. In a fruit orientation device, a fruit receiving recess formed by a substantially horizontal bottom plate and four cooperating members extending upwardly from said bottom forming a recess having a substantially square cross section at all levels, a fruit contacting wheel projecting through said bottom plate, at least one of said wall members being movable away from the remaining wall members to open said recess and to permit horizontal removal of fruit from said recess.

2,609,914
ARTICLE FEEDING DEVICE
Harold E. Balsiger and Charles C. W. Williams, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa.
Application December 4, 1946, Serial No. 713,954
2 Claims. (Cl. 198—33)



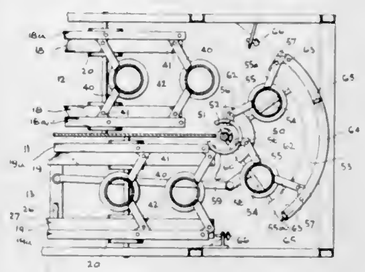
1. A device for feeding articles including a cylindrical hopper having side wall and bottom integral, means for effecting vertical vibration of said hopper, supporting means for said hopper effective to convert part of said vertical movement to oscillating movement about the axis of said hopper whereby to cause said articles to move continuously in a circumferential path, and means responsive to said movement for guiding said articles from the bottom of said hopper including an inclined track formed on the inside wall of said hopper and merging with the bottom thereof and extending to a point of discharge at an elevation higher than the articles in the hopper, said track serving to intercept individual articles and to conduct them to said point of discharge, the width of said track being such as to retain only a single line of articles and to reject those in a crosswise position.

2,609,915
CONVEYING APPARATUS
Albert R. De Burgh, Redondo Beach, Calif.
Application March 10, 1949, Serial No. 80,740
21 Claims. (Cl. 198—41)



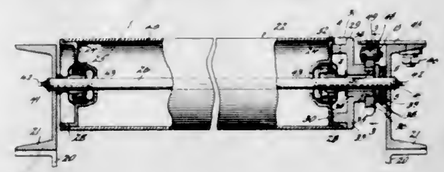
1. In conveying apparatus, movable carrier means, driven means for imparting movement to said carrier means, a magnet carried by said driven means, and a piece of magnetic material supported through a universal joint by said carrier means in proximity to said magnet, whereby a magnetic connection is established for transmitting movement to said carrier means from said driven means, said universal joint eliminating variations in the force of attraction between said magnet and said piece of magnetic material resulting from unevenness in the path of movement of the carrier means and also facilitating rotation of said carrier means.

2,609,916
MACHINE FOR CLEANING RECEPTACLES
Harold M. Kendall, Potsdam, N. Y.
Application September 3, 1949, Serial No. 114,046
4 Claims. (Cl. 198—82)



1. A machine for continuously cleaning receptacles which are open at one end and closed at the other end, said machine being open at one end for the reception and delivery of receptacles thereat, said machine having a central longitudinal partition defining a first washing compartment and a second sterilizing and drying compartment on the other side thereof, supporting elements for the receptacles extending in a linear direction within said first compartment and extending in a reverse linear direction within said second compartment toward the open end of the machine, said supporting elements having an arcuate return-bend portion interconnecting the linear portions thereof, a plurality of treating stations spaced along said supporting elements, first main intermittently operating feeding means within said first compartment, second main intermittently operating feeding means within said second compartment, said first and second feeding means being arranged to reciprocate simultaneously in opposite directions and being operative to feed said receptacles from station to station within said first and second compartments along the linear portions of said supporting elements, said first and second feeding means having opposed pairs of feeding dogs pivotally mounted thereon, longitudinally extending dog-bars pivotally interconnecting the outer ends of said feeding dogs, fixed stops arranged to abut respective dog-bars at the termination of the advancement and retraction of said first and second feeding means and operative to move said feeding dogs to open inoperative position and closed operative position respectively, and auxiliary rotary feeding means actuated by one of said main feeding means and operative to feed the receptacles along the arcuate portion of said supporting elements, said auxiliary rotary feeding means comprising inner and outer segments rotatable in unison, said inner and outer segments having opposed pairs of feeding dogs pivotally mounted thereon, arcuate dog-bars pivotally interconnecting the outer ends of said last-mentioned feeding dogs, fixed stops arranged to abut respective arcuate dog-bars at the termination of the advancement and retraction of said rotary feeding means and operative to move said last-mentioned feeding dogs to open inoperative position and closed operative position respectively in synchronization with the opening and closing of the feeding dogs of said first and second main feeding means.

2,609,917
POWER DRIVEN ROLLER CONVEYER
Henry R. Gotthardt, Louisville, Ky., assignor to Logan Co., Inc., Louisville, Ky., a corporation of Kentucky
Application September 20, 1950, Serial No. 185,876
14 Claims. (Cl. 198—127)



1. A conveyor comprising a plurality of rollers, parallel side frame members supporting said rollers for rotation, sprockets connected to said rollers and lying in a common plane, a chain extending over and engaging all of said sprockets to drive said rollers, a plate carried by one of said side frame members adjacent said chain and extending thereover to act as a guard therefor, said plate being arranged in proximity to said chain, normally out of engagement therewith, to prevent disengagement of said chain from said sprockets, and a depending longitudinally extending guide carried by said plate normally out of engagement with said chain but arranged in proximity thereto to prevent lateral movement of said chain relative to said sprockets.

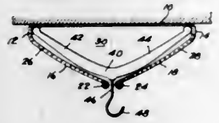
2,609,918
COVER FOR RETURN CONVEYER RUNS
Angus Wellesley Duncan, Worcester, England, assignor to The Mining Engineering Company Limited, Worcester, England
Application March 4, 1949, Serial No. 79,700
In Great Britain March 2, 1948
7 Claims. (Cl. 198—184)

4. A covered return run conveyor comprising a pair of spaced supporting stools each including a transverse support, a cover trough consisting of two longitudinal half parts for individual insertion between the conveyor runs from the op-

posite sides thereof and removably mounted at their ends on stools, and releasably cooperable connections on said cover parts and said stools giving rigid lateral alignment independently between each cover part and said stools, said connections comprising outwardly disposed connector means centrally located and upwardly disposed connector means laterally located on said stools, and inwardly disposed connector means on the inner corners of said cover parts for cooperating with said outwardly disposed means centrally located on said stools, and downwardly disposed connector means on the outer corners of said cover parts for cooperating with said upwardly disposed means on said stools.



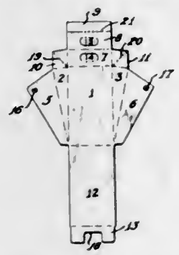
2,609,919
RECEPTACLE
Reynold A. Lee, Washington, D. C.
Application February 12, 1948, Serial No. 7,860
5 Claims. (Cl. 206—1)



1. A receptacle for the orderly stacking therein and removal therefrom of garment hangers of the type having a suspension hook and laterally extending garment supporting portions; and comprising a body portion generally conforming to the shape of the hangers, said body portion including a rear wall portion and a pair of front wall portions extending forwardly from said rear wall portion and inclined toward each other to closely confine the laterally extending portions of the hangers, the free longitudinal edges of said front wall portions being longitudinally ribbed substantially from the top to the bottom thereof and spaced apart to permit the passage therebetween of the suspension hooks of the hangers stacked in the receptacle.

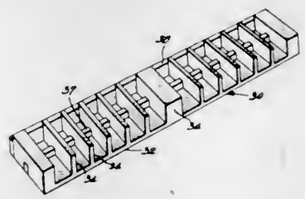
2,609,920
PAPERBOARD PROTECTOR FOR PAINT BRUSHES
William A. Ringler, Wayne, Pa., assignor to The Gardner Board and Carton Co., Middletown, Ohio, a corporation of Ohio
Application August 23, 1949, Serial No. 111,785
3 Claims. (Cl. 206—15.1)

1. A paperboard protector for paint brushes and the like which comprises a single, integral, foldable blank having a main panel adapted to overlie one face of a brush, triangular side panels articulated to the side edges of the main panel, closure flaps articulated to the side edges of said side panels and adapted to overlap in the closed position, an end wall panel articulated to an end of the main panel, diagonally scored closure webs interconnecting the ends of the side and end wall panels and adapted to fold bellows-wise inwardly when the side and end wall panels are erected with respect to said main panel, an extension articulated to the free edge of said end wall panel which, when folded inwardly provides an inner end wall overlying the inwardly folded corner webs, said end wall panel and its extension having tabs formed therein, said tabs adapted to be folded to provide an opening through which may pass the handle of a paint brush, one of said tabs being adapted to lock



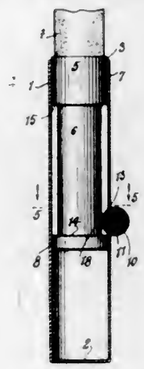
said end wall panel and its extension in erected condition, and a supplementary panel articulated to the other end of said main panel and bearing a tuck flap at its free end, said supplementary panel being of substantially the same size as the main panel, said tuck flap having a cut-out portion responding to the openings in said end wall panel and its extension, said tuck flap adapted to overlie said inner end wall forming extension with the cut-out portion thereof coinciding with the openings in said end wall panel and its extension.

2,609,921
SILVERWARE CONTAINER
Morris I. Naken, Chicago, Ill.
Application July 8, 1950, Serial No. 172,720
2 Claims. (Cl. 206—16)



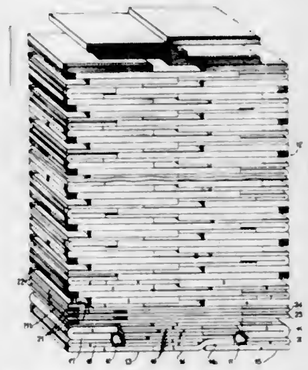
1. In a lid for a silverware container, the combination of a knife support on said lid facing upwardly in open position thereof, a retainer spaced from the lid and projecting upwardly from said support to engage knife handles seated thereon, a bracket carried by the lid above said support and comprising a downwardly extending retainer surface spaced from the lid and adapted to engage certain knife blades, and spaced downwardly facing abutments disposed inwardly of said surface and spaced from the lid, the lower abutment being spaced from the lid a greater distance than the upper abutment, the vertical distance between said abutments and also the vertical distance between the lower edge of said surface and the lower abutment being greater than the vertical depth of the retainer, whereby the blades of knives carried by said support are adapted to engage one of said abutments to prevent accidental displacement of the knives from said retainer and retainer surface.

2,609,922
COSMETIC CONTAINER
Frederick R. Book, Jr., Waterville, Conn., assignor to The Eyelet Specialty Company, Waterbury, Conn.
Application August 15, 1950, Serial No. 179,420
2 Claims. (Cl. 206—56)



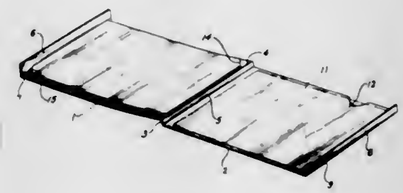
1. A cosmetic container comprising, a tubular body shell closed at one end and open at its other end, a cosmetic cup having a central cylindrical small-diameter portion and wider-diameter portions at its opposite ends, the wider-diameter portions closely fitting the inside of the body shell but permitting axial sliding movement of the cosmetic cup within the body shell, the body shell being provided with an aperture in its wall, a compressible roller rotatively mounted on the outside of the shell and projecting through the aperture and having its edge in frictional contact with the cylindrical surface of the small-diameter portion of the cosmetic cup to thereby frictionally engage against said cylindrical surface and cause sliding movement of the cosmetic cup when the roller is manually rotated, the sliding movement of the cup being limited at least in one direction by engagement of the roller with the end of one of the wider-diameter parts of the cosmetic cup.

2,609,923
BAG PACKAGE WITH FORK-LIFT HANDLING MEANS
Budd E. Simonton, Watertown, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application October 27, 1949, Serial No. 123,920
3 Claims. (Cl. 206—60)



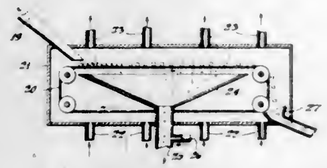
1. A package of superimposed fibrous sheets comprising: a pair of hollow tubular core members in spaced substantially parallel relationship, the core members each having an orifice at least at one end thereof; a pair of sheet groups each consisting of superimposed fibrous sheets, the thickness of each group being substantially equal to the depth of the core members, one such group being placed along the outer side of one of the core members and the other such group being placed along the outer side of the other core member; another group of such sheets occupying the space between such core members; a plurality of such sheets superimposed on said core members and groups of sheets; and means binding the entire pile of sheets, the plane of such binding means being substantially perpendicular to a plane containing the axes of such core members.

2,609,924
CARBON PAPER FOLDER
George R. Steele, Irondequoit, N. Y., assignor to Kee Lox Manufacturing Company, Rochester, N. Y., a corporation of New York
Application July 28, 1951, Serial No. 239,173
2 Claims. (Cl. 206—62)



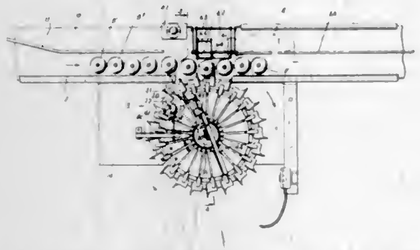
2. A carbon paper folder comprising a carbon sheet elevating wall, a carbon sheet supporting portion having a length as great as the carbon sheets and foldably connected at one end to said elevating wall, a flap integral with and extending across one end of the supporting portion and foldable toward carbon sheets on the supporting portion, said supporting portion being positionable in alinement with said elevating wall or at an angle of approximately 90° thereto, and a cover portion having a length as great as the carbon sheets and foldably connected to said elevating wall at one end, a flap integral with and extending across one end of the cover portion and foldable toward sheets on the cover portion, said cover portion being positionable at an angle of approximately 90° to said elevating wall or overlying and parallel to said elevating wall and supporting portion, said elevating wall being located between said supporting and cover portions and the folding of the supporting and cover portions in relation to the elevating wall being permitted by creases formed in the folder from mutually opposite directions whereby the supporting and cover portions have a normal swing of not more than 90° in opposite directions in relation to the elevating wall so that when the folder is opened the elevating wall is in a vertical position and the supporting and cover portions extend in opposite directions from the top and bottom edges thereof respectively and when the folder is closed the supporting portion and elevating wall are alined and the cover portion overlies the supporting portion and elevating wall and is parallel thereto.

2,609,925
PROCESS FOR SEPARATION OF PARTLY DRIED GEL PARTICLES
Paul B. Weisz, Pitman, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application April 9, 1951, Serial No. 220,040
7 Claims. (Cl. 209—2)



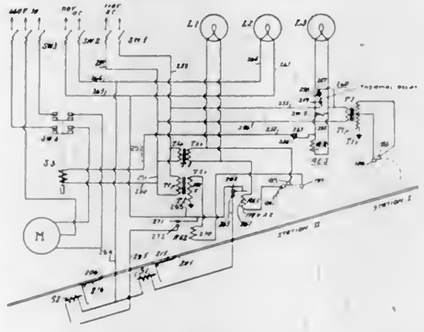
1. A method for effecting separation of partially dried particles of inorganic gel in regards to the extent of completion of syneresis thereof, which comprises conducting hydrogel particles of substantially uniform dimension onto a screen of mesh size such that gel particles resulting upon substantially complete shrinkage of said hydrogel particles pass through said screen leaving particles which have not attained substantially complete shrinkage remaining on said screen, forcing an upwardly moving stream of drying gas through said hydrogel particles until said substantially complete shrinkage thereof is effected, whereby separation is achieved between inorganic gel particles which have attained substantially complete shrinkage and passed through said screen and those particles remaining on said screen which have not attained substantially complete shrinkage.

2,609,926
BOTTLE SORTING MACHINE
Walter Hartig, Scotch Plains, and James J. Smith, Fort Lee, N. J., assignors to Pabst Brewing Company, Newark, N. J., a corporation of Delaware
Application July 21, 1948, Serial No. 39,944
10 Claims. (Cl. 209—74)



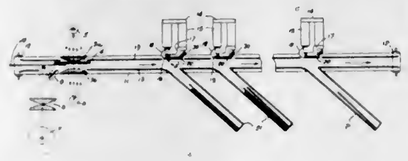
1. A bottle sorting device comprising a freely rotatable turntable, a plurality of pushers mounted on said turntable for inward and outward movement, a conveyor for moving a row of bottles toward said turntable to engage said bottles with said pushers and rotate said turntable, first guide means for retaining said pushers against outward movement, second guide means for moving said pushers outwardly as said turntable rotates, and means sensitive to the color of each bottle for selectively connecting said pushers with said guide means to permit bottles of one color to pass by said turntable without substantial displacement transversely of said conveyor, and to cause said pushers to move outwardly to displace bottles of another color transversely of said conveyor.

2,609,927
COMMUTATOR TESTING AND SORTING DEVICE
Rupert C. Whelchel, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 17, 1948, Serial No. 21,730
6 Claims. (Cl. 209—81)



3. A commutator testing apparatus comprising an inclined chute down which the commutators roll, the commutators having metallic tubular cores insulatingly supporting commutator bars, a device for arresting movement of a commutator at a ground-test station, a metallic, rotating member at said station for frictionally engaging the interior surface of the commutator core to rotate the commutator, reciprocating means for advancing and retracting the member into and out of engagement with the commutator core, a current source connected with the member, a contact connected with the source and engageable with the commutator bars as they rotate, a trap below said station normally open for permitting the commutator to pass down the chute and movable to another position for effecting removal of the commutator from the chute, and electrically operated means responsive to flow of current from said source between a bar and the core of the commutator through said member for causing the trap to move into said another position for removing the commutator.

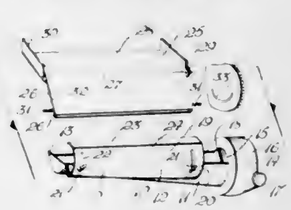
2,609,928
APPARATUS FOR SORTING POSTAL PACKETS
James Frederick Doust, London, England
Application January 12, 1948, Serial No. 1,781
In Great Britain December 31, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 31, 1966
6 Claims. (Cl. 209—111)



1. In an improved apparatus for sorting postal articles, said articles being provided with article destinations coded on the respective articles by detectable marks located in selected ones of a series of several coding areas, the series of coding areas on each article being linearly arranged and spaced sequentially in a predetermined direction, code reading means triggerable to read selectively

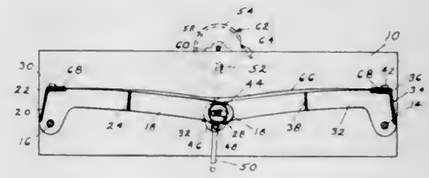
the coding in each of said several areas at distinct time intervals, triggering means for so triggering said code reading means, said code reading means including photoelectric mark-sensing means responsive to the presence or absence of marks in the respective ones of said several areas for operating said code reading means in its correspondingly triggered condition, said improved system being particularly characterized in that it includes conveying means for continuously moving the articles in a predetermined direction past the mark sensing means, and in that the triggering means for the code reading means is actuated by movement of the article by the conveying means in said predetermined direction for triggering said code reading means as such movement sequentially exhibits each of the respective ones of said several coding areas to said mark sensing means, and in that the triggering means comprises photocell means and light source means producing a series of light beams corresponding to the number of coding areas employed, said light beams being projected to said photo-cell means across the path through which said article is moved and being spaced longitudinally to be sequentially interrupted by the article as the article moves to exhibit sequential ones of said series of coding areas to said mark-sensing means, thereby to alter the output of said photo-cell means for triggering said code reading means.

2,609,929
GRAIN AND WEED RECLAIMING ACCESSORY
Alexander King, Carman, Manitoba, Canada
Application April 4, 1949, Serial No. 85,288
1 Claim. (Cl. 209—135)



An intercepting assembly for grain and weed seed reclaiming for attachment adjacent the chaff discharge end of combines and the like, comprising in combination a substantially semi-cylindrical trough transversely situated adjacent said chaff discharge end, a blower at one end thereof, said trough inclining downwardly toward the blower end thereof, baffle means adjustably projectable across the main combine chaff discharge path, said means comprising a vertical plate movable in its own plane secured to the rear wall of said trough and extending upwardly therefrom into the chaff discharge path, said plate being curved to complement the configuration of said wall, a horizontal flange along the upper edge of said plate extending over and substantially shrouding the open upper side of said trough for deflecting downwardly into said trough grain and weed seeds impinging upon said plate, and further baffle means within said chaff discharge path cooperating with said first mentioned means, said further baffle means comprising an overhanging air-deflecting panel hingedly mounted along the horizontal edge thereof above said trough and being inclinable downwardly and rearwardly over said trough between the horizontal and the vertical for directing the air stream towards said first mentioned baffle means, and means for maintaining said panel at different degrees of angulation from the horizontal.

2,609,930
VIBRATING EQUIPMENT
Lewis E. Soldan, San Diego, Calif., assignor to Productive Equipment Corporation, Chicago, Ill., a corporation of Illinois
Application April 17, 1948, Serial No. 21,648
11 Claims. (Cl. 209—412)



1. In a vibrating device that includes a porous screen, a support for said screen, and side walls confining material placed on the upper surface of said screen, the improvement which comprises perforated end frames on said screen and an extendible support for said screen which has projections thereon to engage the perforations in said end frames, said support comprising two elongated frames that are disposed with their axes parallel to said side walls and spaced pivots for said frames that are disposed with their axes perpendicular to said side walls, said frames being supported by said pivots for rotation relative to each other and relative to said side walls, each of said frames having a screen-engaging surface spaced horizontally from the pivot for said frame, said projections on said frames being spaced vertically from the pivots for said frames, said screen-engaging surfaces of said frames underlying said screen and being intermediate said projections on said frames, said frames underlying a large portion of the area of said screen, said frames being rotatable about said pivots to move said screen-engaging surfaces vertically and to move said projections horizontally and thereby move said screen-engaging surfaces on said frames away from or toward said screen and also move said projections toward or away from each other to free said screen from said extendible support or to tension said screen by pressing the central portions of said screen upwardly with said screen-engaging surfaces while pulling the ends of said screen outwardly with said projections.

2,609,931
METHOD OF FILTERING
Clarke A. Rodman, Garden City, N. Y., and Norman L. Tewksbury, Fall River, Mass., assignors to Fram Corporation, a corporation of Rhode Island
No Drawing. Application April 17, 1948, Serial No. 21,764
5 Claims. (Cl. 210—62)

1. A method of attracting or adsorbing the pyrolytic and oxidation decomposition products of a hydrocarbon oil forming a contaminant in said oil for removing said contaminant from said oil, which method comprises collecting on a filter media, contaminant from the oil which has been contacted with a composition containing as the essential ingredient at least one com-

pound from the group consisting of the following compounds whose generic formulae are:

$$RCONH(R_1NH)_m R_1NH(R_2O)_n R_2OH$$

$$RCONH(R_1NH)_m R_1N\begin{matrix}(R_2O)_n R_2OH\\(R_2O)_n R_2OH\end{matrix}$$

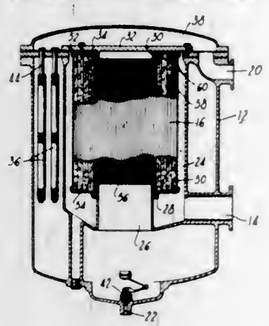
$$RCONH(R_1NH)_m R_1N(R_1NH)_p R_1NHOCR$$
$$(R_2O)_n R_2OH$$

where

RCO is fatty acid radical or part of a fatty acid glyceride
R_1 is an alkylene group
R_2 is an alkylene group the same as or different from R_1
m is 0 or any whole number
n is 0 or any whole number the same as or different from n
p is 0 or any whole number the same as or different from m or n,

the compound being prepared by reacting an alkylene oxide and the products formed by reacting a polyalkylene polyamine and a material selected from the group consisting of fatty acids and fatty acid glycerides at an elevated temperature and for a length of time until there is no longer a decrease of alkalinity.

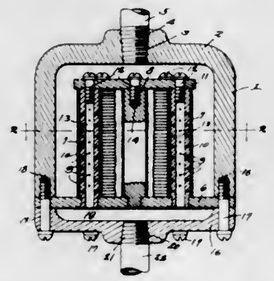
2,609,932
FLUID PURIFYING DEVICE
Guy C. Fricke, Detroit, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 5, 1948, Serial No. 52,910
4 Claims. (Cl. 210—140)



1. A filter element structure comprising a vertically disposed cylinder, a second vertically disposed cylinder inside of said first mentioned cylinder, an upper and lower plate joined to the top and bottom of said cylinders forming an enclosed annular chamber between said cylinders, fibrous material in said chamber, and a plurality of vertical coarse meshed fabric partitions in said chamber in spaced relation for preventing said material from settling, said partitions extending to the top plate and being secured thereto by an impervious strip extending downwardly from said plate.

2,609,933
FILTER
Margaret Ross, Lincoln Park, Mich.
Application June 3, 1948, Serial No. 30,879
1 Claim. (Cl. 210—184)

A liquid filter including a cylindrical housing having a closed end and an open end, a filter supporting plate removably connected to the housing and disposed over the open end of said housing, a removable closure head secured over said supporting plate in spaced relation therewith providing a collecting chamber, a plurality of independent hexagonal filtering tubes providing flat surfaces, supported circumferentially upon said plate in spaced relation with each other, the tubes extending through said plate communicating with the collecting chamber, said tubes having radially extending



passages through their walls, certain of said radially extended passages extending through flat surfaces, the remaining passageways of each tube extending through the side edges of the flat surfaces of the tubes, a cap plate secured to the free ends of the tubes, coiled filtering springs encircling the tubes in contact with the side edges of the flat surfaces of the tubes and inlet and outlet pipes connected respectively with said housing and said closure head.

2,609,934
NECKTIE RACK
Cyril Kruger, New York, N. Y.
Application June 22, 1950, Serial No. 169,589
5 Claims. (Cl. 211—96)



3. A necktie hanger which comprises a bracket mountable on a wall and including a pair of parallel spaced horizontal plates, a pair of parallel bars pivotally mounted between said plates for swinging movements from a position in which they are parallel with the wall to one in which they are at right angles to the wall, and a plurality of tie supports pivotally mounted on said bars as to be at right angles thereto in the latter position of the bars and almost parallel therewith in the former position of the bars, each of said supports comprising a horizontal rod having its ends turned upward, each of said rods when viewed from the front having intermediate of its ends an inverted U-shaped portion with the side arms of said U-shaped portion being each extended vertically through an opening in one of said bars.

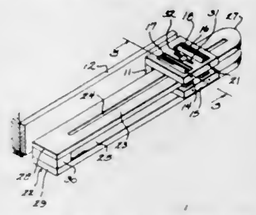
2,609,935
NECKTIE RACK
Cyril Kruger, New York, N. Y.
Application July 20, 1950, Serial No. 174,845
9 Claims. (Cl. 211—96)

1. A necktie hanger which comprises as its main structure an upper bar and a lower bar parallel to said upper bar, and a plurality of bent wire link members pivotally interconnecting said bars whereby with one of said bars secured immovably to a wall in horizontal placement thereon an endwise movement of the other bar may be effected in either direction, each of said bars having a plurality of vertically extended apertures and each of said link members being vertically extended through one of said apertures in one of the bars and also vertically extended through one of said apertures in the other bar, each of said link members having intermediate its ends a horizontal portion offset in relation to its vertical portion constituting a swing arm or crank element, each of said crank elements



having the same working length and being shaped and arranged always to maintain the bar other than the one secured to the wall a further distance from the wall than said bar secured to the wall, each of certain of said link members having a terminal subdivision offset in relation to the vertical portion of the link member above the upper bar, and all of said subdivisions constituting an array of necktie supporting hooks swingable to positions substantially perpendicular to the wall in response to endwise movement in a desired direction of the bar other than the one secured to the wall.

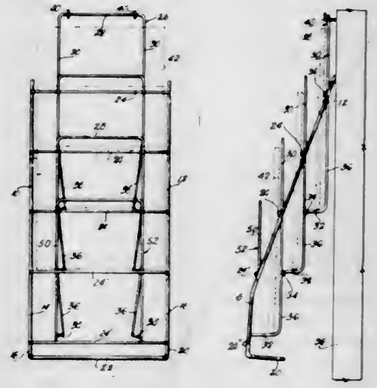
2,609,936
WINDOW BRACKET
Gust Stamos, Milwaukee, Wis.
Application January 9, 1951, Serial No. 205,068
1 Claim. (Cl. 211—105.1)



In combination with a roller bracket having a pair of parallel horizontally spaced rollers in the top portion, and a pair of rollers vertically spaced below the first rollers and adapted for attachment to a window frame, a traveller comprising two parallel slotted bars vertically spaced from each other and joined at one end and mounted to run over the lower pair of rollers and contact the upper rollers with one slotted bar thereunder, and a depending bar affixed to said lower bar extending longitudinally thereof as a support for window coverings or the like.

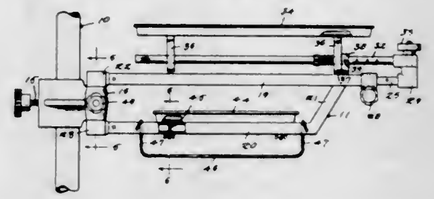
2,609,937
JOINT STRUCTURE FOR WIRE DISPLAY RACKS
Harry J. Rubenstein, Kansas City, Mo.
Application October 25, 1950, Serial No. 192,043
4 Claims. (Cl. 211—106)

1. A display rack comprising a spaced pair of angularly disposed frame members; a plurality of horizontal cross-bars joining said frame members; and an article support for each cross-bar respectively, each support including a spaced pair of vertical rods secured to corresponding cross-bars and converging at the lowermost ends thereof, each of said ends being provided with a



laterally extending leg joined with the proximal rod of a support next adjacent thereto.

2,609,938
BEDSIDE STAND AND TRAY
Merle N. Wells, Fairview, Pa.
Application April 6, 1951, Serial No. 219,695
1 Claim. (Cl. 211—131)



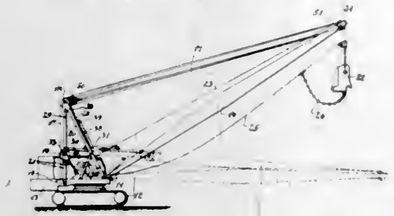
A bracket and tray structure comprising a clamp adapted to be engaged with a vertical support, said clamp including a bushing having a vertical bore therethrough, a pivot pin extending through said bore, upper and lower parallel tubular arms secured to opposite ends of said pin for pivotal movement therewith, set screw means for securing said pin and hence said arms in a selected position, an extension connecting said lower arms with said upper arm, a tray fixedly carried by said lower arm, a telescopically extensible arm slidable within said upper arm, clamping means for securing said last-mentioned arm in a desired position of extension, an upright at the outer end of said extensible arm, a swinging arm pivotally mounted for rotation on said upright, clamp means for securing said swinging arm at a desired point in its arc of rotation, a locking block slidable on said swinging arm, set screw means for securing said block in a desired position, a pin projecting from the face of said block, a pair of spaced tray supporting brackets slidable and rotatable on said swinging arm, a tray carried by said brackets, one of said brackets including a quadrant having a plurality of apertures rockably disposed about the periphery thereof, each of said apertures being selectively engageable with said pin for locking said tray in a desired position of angular adjustment, and spring means biasing said one bracket towards said block.

2,609,939

LOWERABLE A-FRAME

Trevor O. Davidson, Milwaukee, and Bruno L. Lonngren, South Milwaukee, Wis., assignors to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application January 10, 1948, Serial No. 1,617
3 Claims. (Cl. 212—59)



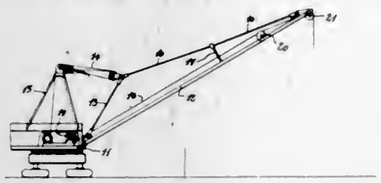
1. In a machine of the class described, the combination of: a boom; a cable to support the boom; means for taking in and paying out the cable to raise and lower the boom; a stationary structure; a mast, having its foot pivotally supported by the stationary structure for pivotal movement toward the boom, from an elevated position to a lowered position; means for retaining the mast normally in elevated position, said retaining means being supported by the stationary structure by means removable to release the mast for lowering; tension means for controlling the lowering of the mast; a sheave carried by the mast to support the cable; and a compression member extending from a connection with the tension means to a pivotal support located adjacent the foot of the mast and supported by the stationary structure, the compression member being constrained by its connection with the tension means to rotate with the mast as the mast is lowered, and thereby maintain the tension means at a substantial angle with the mast during the lowering of the mast.

2,609,940

CRANE BOOM SUSPENSION

Knut E. Grundvig, Chicago, Ill., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application December 15, 1947, Serial No. 791,845
2 Claims. (Cl. 212—144)



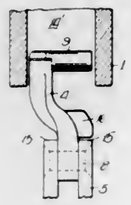
1. In a suspension for a long slender upwardly inclined crane boom, the combination of: a mainframe; means thereon for pivotal support of the foot of the boom; first tension means, of fixed length, extending upwardly from a pivotal support by the main frame adjacent the foot of the boom; fixed-length guy means from the upper end of the first tension means to the outer end of the boom; fixed-length boom-suspension means between an intermediate point on said guy means and the boom; second tension means, of variable length, between an elevated point on the main frame and the upper end of the first tension means, for supporting the first tension means; the point of attachment of the second tension means to the main frame being above the transverse plane through the guy means when the boom is in any operating position.

2,609,941

COUPLER LOCK LIFTER TOGGLE LINK

James N. Borland, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware

Application October 17, 1949, Serial No. 121,766
4 Claims. (Cl. 213—127)



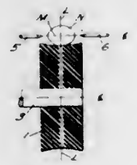
1. In a railway car coupler having a lock opening therein, a lock within said opening, a rotor lever pivotally connected at one end to said coupler, the other end of said lever being bifurcated, a toggle link pivotally connected at its lower end between the bifurcated portion of the rotor lever, and having a pintle extending laterally of said coupler for pivotal connection to said lock, a lug adjacent the lower end of said toggle link and under said pintle which overhangs the upper end of one of said bifurcated portions, said lug having a cam surface engageable with a wall defining said opening, whereby in rotating said rotor lever said cam surface insures entry of the bifurcated end of said lever in said opening.

2,609,942

FEEDING, POSITIONING, AND ORIENTING MECHANISM

Melvin J. Kofoid, Corvallis, Oreg., assignor to Northwest Nut Growers, Dundee, Oreg., a cooperative association of Oregon

Application June 6, 1949, Serial No. 97,336
8 Claims. (Cl. 214—1)



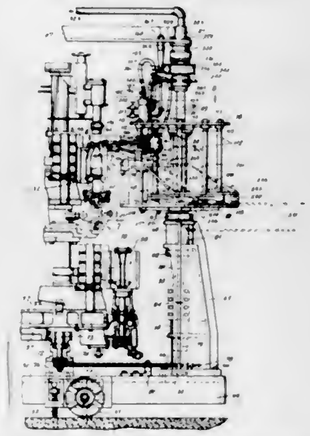
1. An orienting device for nuts or the like articles of generally ovoid form having major and minor axes comprising a pair of similar wheels mounted for revolution at the same speed, their upper surfaces running together, in side by side relationship with their axes parallel, to define a V-shaped region between the wheels and above the plane of their axes, the perimeters of said wheels concavely grooved to receive a nut or the like when running and immediately orient the major axis of the said nut into parallel relationship with the axes of the wheels.

2,609,943

TAKE-OUT MECHANISM

Samuel E. Winder, Knox, Pa., assignor of one-half to Henry C. Daubenspeck, Massillon, Ohio

Application September 28, 1946, Serial No. 700,012
14 Claims. (Cl. 214—1)



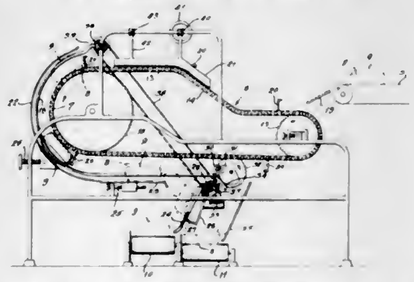
1. A machine for moving glassware and the like, comprising a base, a rotatable support on the base, means for continuously rotating the support, a ware engaging device on the support for rotative movement therewith, means mounting the device on the support for vertical movement, the device including fluid pressure operated means to hold ware, a valve on the support for controlling the fluid pressure means, movement permitting connections between the valve and the fluid pressure operated means, means operated by rotation of the support for effecting operation of the valve to cause the holding means to engage ware at one point in the rotation of the support and for disengaging the same at another point therein, and means operated by movement of the support for displacing the device vertically during such rotation, the means for effecting operation of the valve including a cam track on the base, and a cam follower on the valve, the track having a displacement portion engageable by the follower during rotation of the support, to operate the valve, and means to adjust the length of the displacement portion.

2,609,944

APPARATUS FOR TRANSMITTING HOT PANS OF BREAD FROM OVENS

Nicholas J. Nicoletti, St. Louis, Mo.

Application September 16, 1948, Serial No. 49,518
6 Claims. (Cl. 214—1.1)



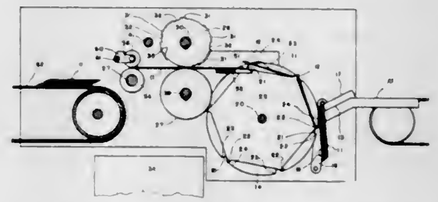
1. In an apparatus for transmitting hot pans of bread from an oven, an endless traveling carrier having an intake zone for the hot pans of bread and a return bend to dump the pans and their contents, traveling pushers movable with said carrier to contact with the pans, said pushers being separated from each other to advance the pans and provide abutments for the dumped pans, each dumped pan being dropped onto the next adjacent preceding pusher to forcibly loosen its bread from the pan, track devices associated with said return bend to receive and invert the dumped pans, said track devices being extended below the return course of said endless carrier to support the inverted pans in the path of said traveling pushers, a bread retainer having a relatively short supporting surface located below but adjacent to said track devices to temporarily confine the loosened bread in the inverted pans, an outlet for the bread being formed at the terminal margin of said relatively short supporting surface, and said track devices being provided with discharge ends beyond said bread outlet to separately discharge the pans.

2,609,945

BATTERY PLATE FEED DEVICE

Leon A. Doughty, Glenside, Pa., assignor to C & D Batteries, Inc., Conshohocken, Pa., a corporation of Pennsylvania

Application May 20, 1948, Serial No. 28,148
5 Claims. (Cl. 214—8.5)



5. In a battery plate separating machine, a plate feeding means comprising a rotatable pair of circular pick-up discs, each having circumferentially spaced recesses, the periphery of each disc gradually reducing in radius at one side of each recess to provide a projecting pick-up finger at the opposite side of each recess, a pair of polygonal shover discs rotatable in synchronism with said pick-up discs, the respective sides of said shover discs having a length to permit a plate to seat flat thereon, shover projections respectively formed at one end of each side, and cam means for removing a plate from said pick-up discs in advance of the engagement of said projections with such plate.

2,609,946

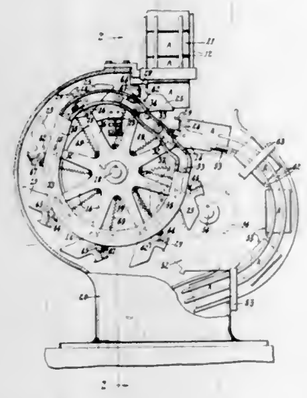
FEEDING MECHANISM WITH GRIPPING DEVICE

Leif N. Brager, Maplewood, and Frank F. Borkmann, Union, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey

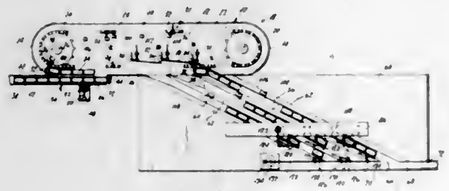
Application May 14, 1947, Serial No. 747,954
12 Claims. (Cl. 214—8.5)

4. In a feeding mechanism for articles such as tubular container bodies and the like, the combination of a magazine for retaining a stack of bodies, a pivotally mounted carrier rotatable on a horizontal axis in a vertical plane beneath said magazine for removing the lowermost container body therefrom and for supporting the removed body, a member formed on said carrier and engageable under the body next above the removed

body for temporarily holding said stack of bodies in place, gripper means mounted on said carrier and insertable into an end of the removed body for holding it in place on said carrier, means for bodily rotating said carrier on said horizontal axis and for inserting said gripper means into an end of said tubular container body, means adjacent the path of travel of said carrier for tilting the moving carrier on its pivotal mounting into position for delivery of the body therefrom, movable means adjacent the path of travel of said carrier for receiving the body from the carrier and for advancing it along a continuing path of travel, and pusher means carried by and actuated by the rotation of said carrier for transferring said container body from the tilted carrier to said movable means.

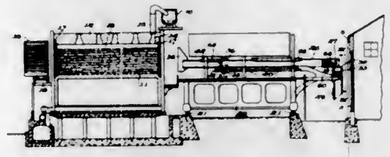


2,609,947
PACKAGE DISTRIBUTION SYSTEM
Robert Couchman, Jr., San Jose, and Werner John Raab, Campbell, Calif.
Application August 1, 1950, Serial No. 177,022
6 Claims. (Cl. 214—16)



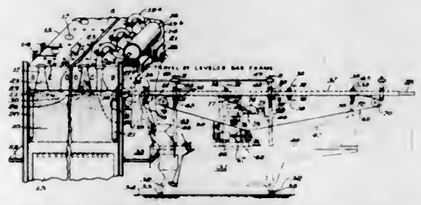
5. A package distribution system comprising a horizontally disposed closed path conveyor constituting a package supply reservoir of a recycling type, a plurality of mutually parallel chutes angularly disposed in package receiving relation to said conveyor, means operable in response to package sensing means associated with said chutes to selectively divert a predetermined number of packages into any of said chutes in response to a package under-supply therein, and means operable in response to package sensing means associated with said conveyor to feed packages on to said conveyor in predetermined positions in response to a package under-supply thereon.

2,609,948
PUSHER MACHINE WITH ARTICULATED PUSHER BAR
Paul Howard Lavely, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware
Application August 12, 1949, Serial No. 109,960
9 Claims. (Cl. 214—23)



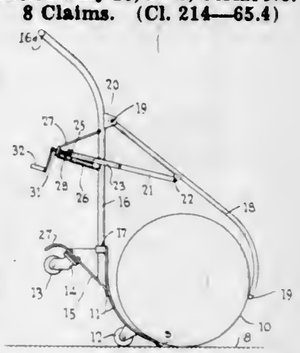
2. In a device for pushing coke horizontally out of any one of a series of coke ovens in a parallel arranged battery thereof, said device comprising a carriage movable along the front face of said battery, a ram mounted on said carriage, and means for reciprocating said ram between a retracted position in which the entire ram is located outside the oven and an extended position in which the head of the ram extends beyond the open back of the oven, the improvement wherein said ram comprises articulated sections and the hindmost section has a roller wheel affixed thereto near the point of articulation and wherein said carriage comprises a stationary track for said roller wheel positioned on the side of the carriage opposite to the oven face, said track having a downwardly descending curvilinear portion shaped so that the outer end of said hindmost portion of the ram descends vertically downwardly without extending substantially beyond the outer end of said track.

2,609,949
LEVELER BAR AND RECIPROCABLE FRAME
Paul Howard Lavely, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware
Application July 20, 1948, Serial No. 39,608
16 Claims. (Cl. 214—30)



1. The combination with a reciprocable cantilever leveler bar for horizontal by-product coke ovens arranged for reciprocation as a cantilever in a frame, a frame for continuously supporting the leveler bar as a cantilever at all times during its reciprocation, a carriage for transporting the leveler bar in its frame from chamber to chamber alongside a horizontal coke oven battery, and a supporting structure on said carriage for supporting the leveler bar in its frame in position on said carriage for levelling a coking chamber, carrying means for supporting the leveler-bar frame for reciprocation in a horizontal plane independently of the reciprocation of said leveler bar on said supporting structure so that said frame may be advanced closer toward but not into a coking chamber to provide an advanced stationary cantilever supporting fulcrum frame-portion for the leveler bar outside the coke oven, an advanced supporting fulcrum bearing on said advanced cantilever supporting frame-portion for supporting said leveler bar for reciprocation in a horizontal plane on said advanced cantilever supporting frame portion, said leveler bar and said frame both being so arranged on said carriage that in their retracted position their forward ends may be held withdrawn sufficiently back from the side face of an oven battery, for passage therebetween of other auxiliary equipment along the side face of the battery.

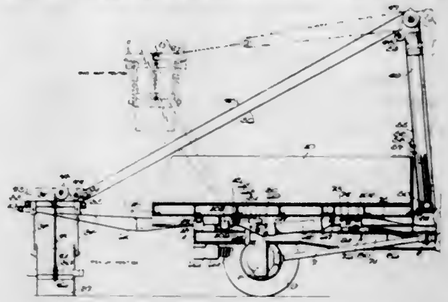
2,609,950
HAND TRUCK
Thomas B. Chambers, Jr., Cranford, N. J.
Application July 10, 1948, Serial No. 38,035
8 Claims. (Cl. 214—65.4)



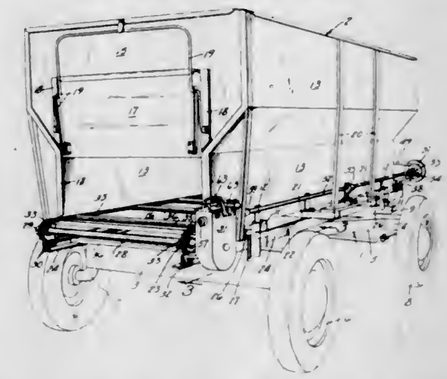
1. In a hand truck or the like, adapted to carry cylindrical articles or the like, the combination comprising a curved cradle for receiving said article, a pair of wheels mounted underneath said curved cradle adjacent the front edge thereof, a wheel adjacent the rear part of said cradle, a handle extending upwardly and rearwardly relative to said cradle, a foot engaging portion extending rearwardly from said cradle useable for assisting in placing the platform under the edge of an article and lifting the article onto the cradle, and a forwardly extending article engaging arm with an article engaging surface, said arm being pivotally mounted on said handle with a self-locking screw and nut arrangement attached thereto adjustably spacedly positioning the bearing surface of said article engaging means relative to said cradle.

2,609,951
SELF-LOADING AND SELF-DUMPING VEHICLE
James W. Daniels, Fort Myers, Fla.
Application August 19, 1949, Serial No. 111,201
21 Claims. (Cl. 214—78)

1. A self-loading vehicle comprising a swinging carrier pivoted on the vehicle on a transverse horizontal axis for oscillation between a digging position at the rear of the vehicle and a dumping position above the vehicle body, a grab bucket on said carrier and swingable therewith between said positions, a cable for closing said bucket in said digging position and then swinging said carrier and the filled bucket to said dumping position, a source of power and means operated thereby for hauling in said cable, control means for said power operated means comprising a vacuum-operated clutch and vacuum-controlling electromagnetically operated valve means for said clutch, and two switches for energizing said electromagnetically operated valve means, said valve means being movable to one position in which said clutch is engaged and to another position in which said clutch is disengaged, one of said switches being actuated by movement of said carrier to digging position for moving said valve means to said one position, the other switch being actuated by movement of said carrier to dumping position for moving said valve means to said other position.



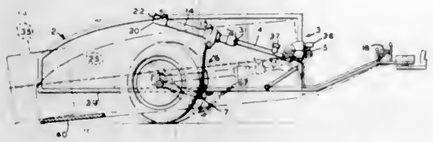
2,609,952
VEHICLE UNLOADING UNIT
Abram P. Balzer and John A. Stoesz, Mountain Lake, Minn.
Application October 18, 1948, Serial No. 55,036
1 Claim. (Cl. 214—83.36)



In a device of the class described, a unitary structure comprising a rectangular frame adapted to rest upon and be supported by the transverse front and rear axle-supporting beams of a wheel-supported chassis, a pair of longitudinally-spaced transverse wagon box-supporting members secured to said frame intermediate the ends thereof, said members being located above the level of the bottom of said frame, a rotary driving shaft extending transversely of said frame at one end portion thereof, an idler shaft extending transversely of said frame at the opposite portion thereof, an endless conveyor running over said shafts and driven by said driving shaft, said conveyor having delivery and return runs one of which passes over said supporting members and the other of which passes between said supporting members and the bottom of said frame, and means for preventing longitudinal movement of said frame with respect to said chassis and a wagon box supported on said members, said means including longitudinally-spaced cooperating pairs of stop elements adapted to straddle said beams, upstanding tongues associated with opposite ends of said members and adapted to be secured to said wagon box and abutments on opposite sides of said frame per-

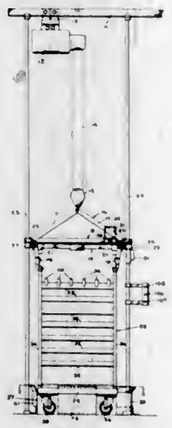
mitting vertical movements of said depending stop elements therebetween but limiting movements thereof longitudinally of said frame.

2,609,953
TRAILER LOADER
Arthur G. Schramm, Phoenix, Ariz.
Application May 7, 1951, Serial No. 225,009
3 Claims. (Cl. 214—85)



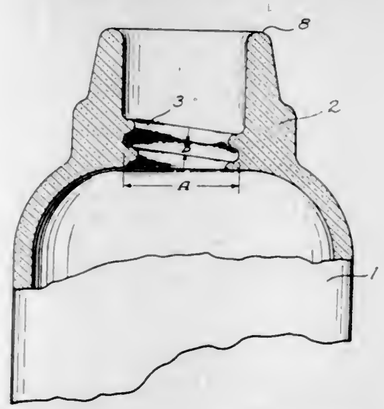
1. In a trailer having an elevatable body and bed supported by wheels mounted on crank arms on each side of said body, each operated by substantially horizontal hydraulic cylinders disposed parallel to the sides of said bed and having pistons or piston rods operating therein and guide sleeves slidably operating on the outside of said cylinders connected to said crank arms, the combination therewith of loading mechanism, including a coupling thimble, having a chain hook, attached to the outer end of said piston rod and extending over and surrounding the outer end of said guide sleeve; a removable coupling pin extending through said thimble and guide sleeve so that said piston rod and sleeve will move together to operate said wheel crank arms, a clamp on the inner end of said guide sleeve adapted to clamp onto the outer surface of said cylinder and retain said guide sleeves on said cylinder in fixed position, a chain having an adjustable loop at its outer end, adapted to run over sheaves on said trailer body and to engage the hook on said thimble at its inner end, and sheaves attached to the forward portion of said trailer body adapted to receive said chain.

2,609,954
TRANSPORT LIFT
Frederick F. Sutherland and Alvin B. Storey, Cumberland, Md., assignors to Celanese Corporation of America, a corporation of Delaware
Application February 2, 1949, Serial No. 74,188
6 Claims. (Cl. 214—111)



1. A transport lift comprising an upper lifting beam, a rotatable lower lifting beam carried by said upper lifting beam, a plurality of lifting hooks mounted on said lower lifting beam, means, operative only when said upper and lower lifting beams are parallel to each other, for raising and lowering said lifting beams and automatically operating means for locking said lower lifting beam against rotation when in parallel relation to said upper lifting beam.

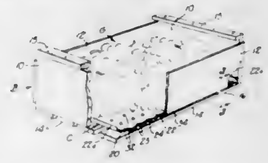
2,609,955
COMBINED CAP AND DISK
Frederick Dean Moore, Portland, Oreg.
Application March 27, 1950, Serial No. 152,027
5 Claims. (Cl. 215—49)



5. A dust-proof container seal, comprising a container having a neck with a marginal rim portion and with constant pitch internal helical threads progressively decreasing in root diameter, said internal threads having a thread valley which is concave in cross-section, the cross-sectional area of said concave valley progressively decreasing toward the base of said container neck, an elastic stopper sealingly compressed in the container neck, said stopper comprising a central plug portion and a crest portion joined to one end thereof, said stopper plug portion carrying constant pitch external complementary helical threads of uniform root diameter, said external threads having lateral thread protuberances which are convex in cross-section, the cross-sectional area of said external thread protuberances being uniform, the stopper crest portion having formed thereon a peripheral flexible lip means for rotary actuation of said stopper, and an inverted peripheral recess means, concave in cross-section formed between said stopper crest portion and said flexible lip means for encompassing and sealing the marginal rim portion of said container neck, said peripheral recess having a progressively decreasing cross-section toward said stopper crest portion to flex said lip means and cause the lip to seal tightly said marginal rim portion.

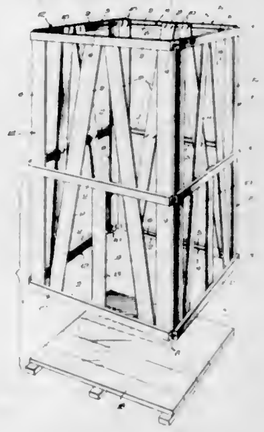
2,609,956
VENTILATED PACKING BOX AND CUSHIONING MEMBER THEREFOR
Samuel B. Stevenson, Pomona, Calif., assignor to F-D-S Manufacturing Company, Inc., Pomona, Calif., a corporation of California
Application March 26, 1951, Serial No. 217,490
11 Claims. (Cl. 217—42)

4. In combination: a packing box for perishable produce having end walls, a bottom wall secured to said end walls, and side walls secured to said end walls with the lower edges of said side walls spaced somewhat above the level of the upper face of said bottom wall for passage of air into the box above said bottom wall and below said lower edges; and a ventilated fiber packing cushion disposed on said bottom wall, said packing cushion including a corrugated lower fiber supporting sheet presenting alternating upper and lower grooves with intervening upper ridges and lower ridges, said lower ridges being supported by said bottom wall, and an upper fiber sheet on said upper ridges and spanning said upper grooves, said upper sheet having shallow valleys disposed between said upper ridges and overlying and spaced above said lower ridges



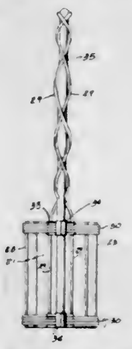
and forming elongated channels in said upper grooves, said upper sheet having in the bottoms of said shallow valleys a series of ventilating holes communicating with said channels, the depths of said grooves being greater than the spacing of the lower edges of said side walls above the level of the upper face of said bottom wall, whereby sand and liquid passing through said holes in the bottoms of said valleys may be discharged from said channels and from said box and ventilation may occur through said channels by way of said holes and the spaces at the lower edges of said side walls, and whereby the lower portions of said side walls retain said packing cushion in said box.

2,609,957
CRATE AND BOX CONSTRUCTION
Harry F. Sester, Benton Harbor, Mich., assignor to Saranac Patents Holding Company, Benton Harbor, Mich., a corporation of Michigan
Application February 10, 1948, Serial No. 7,424
2 Claims. (Cl. 217—48)



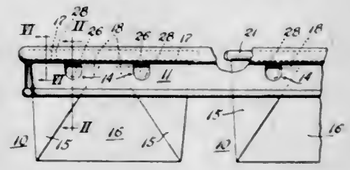
2. A collapsible container, such as a box or crate, comprising a plurality of spaced encircling members, slats secured to the inside faces of the encircling members, said encircling members each comprising a plurality of aligned spaced cleats, each aligned cleat having a groove therein formed in its inner face, and a continuous binding wire arranged in the grooves of the cleats of each encircling member whereby the cleats of each encircling member are hingedly connected together by said binding wire.

2,609,958
BASKET-LIKE DEVICE AND METHOD OF MAKING SAME
Charles F. Mzik, Chagrin Falls, Ohio
Application April 8, 1948, Serial No. 19,713
7 Claims. (Cl. 217—122)



6. A device comprising in combination, a round body member, a plurality of straight reed members disposed longitudinally of, and arranged at intervals around the circumference of, said body member, said straight reed members conforming to the outer wall of the body member throughout their length, a plurality of circumferential reed members wound around the assembly of body member and straight reed members in tight compression with said straight reed members, said straight reed members being arranged radially inward of the circular path of said circumferential reed members throughout the length of the straight reed members, said straight reed members being firmly pressed in tight engagement with said body member by said circumferential reed members, a plurality of securing members securing said reed members, respectively, in said wound disposition, handle means having portions disposed longitudinally of, and adjacent, said circumferential reed members, said portions being secured to said securing members.

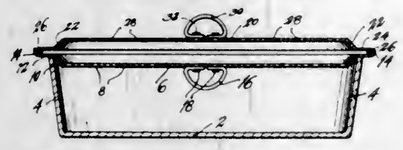
2,609,959
BAKE PAN UNIT
Jesse L. Darnell, Milford, and Elbert M. Cormack, Mount Healthy, Ohio, assignors to The Lockwood Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application June 9, 1949, Serial No. 98,084
7 Claims. (Cl. 220—23.2)



1. In a baker's banded pan-set comprising a plurality of bake pans disposed in side by side relationship, the ends of each pan having a pair

of inverted substantially triangular flaps, the bases of which are parallel to and spaced from the tops of said pans, a band at each end of the pans, said bands extending across the ends of all pans in the set and around the outer corners of the outermost pans in said set and having downwardly projecting vertical clinch lugs offset inwardly of the bands, said lugs being disposed between said flaps and the end walls of said pans, and straps disposed along the outer sides of the outermost pans and connected to the ends of the said bands disposed at the opposite ends of said pans, the foregoing pan-set being characterized by the fact that each pan has a wire-reinforced rolled edge at the periphery of the top thereof, that the end bands are provided at their upper edges with a groove adapted to receive the wire-reinforced edges of the pan ends, that the triangular end flaps are provided with notches adjacent the under sides of said reinforced pan edges, and that said vertical clinch lugs extend between said flaps and pan end walls and abut the shoulders of said notches whereby the pans are secured to said bands and locked against movement lengthwise of said bands.

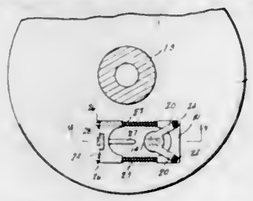
2,609,960
SKILLET COVER
Leland S. Irwin, Ritzville, Wash.
Application September 9, 1949, Serial No. 114,715
1 Claim. (Cl. 220—44)



A skillet cover comprising a perforated lower disc having its marginal portions bent to form an upwardly extending annular flared shoulder and a circumferentially extending outstanding lip carried by and surrounding said shoulder, the lip being bordered by an upwardly projecting flange arcuate in cross section, an upper perforated disc having its marginal portions bent to form a downwardly extending annular flared shoulder of the same diameter as the shoulder of the lower disc and a circumferentially extending outstanding lip carried by its shoulder corresponding in diameter to the lip of the lower disc and bordered by a downwardly extending marginal bead circular in cross section, the bead of said upper disc resting upon the lip of the lower disc with the flange of the lower disc fitting closely about the bead and tightly gripping said bead and thereby detachably holding said upper disc in position above the lower disc in spaced relation thereto, the perforations of said discs being disposed out of alignment with each other, and handles carried by said discs centrally thereof and pivotally mounted for movement from an extended position for use to a folder position flat against the discs.

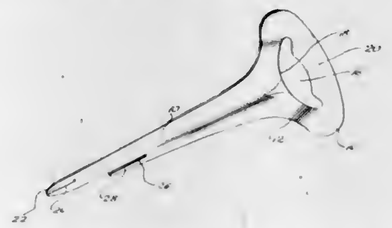
2,609,961
AIR VENT AND CLEANER THEREFOR
Sisto V. Sapien, Yakima, Wash.
Application June 1, 1951, Serial No. 229,441
3 Claims. (Cl. 220—44)

3. A self-cleaning air vent attachment for paint sprayers comprising a hollow stud member formed at its top end with a transverse bore communicating with the interior of the stud member, said stud member being open at its bottom and being adapted to be mounted in the upper wall portion of a paint sprayer to define an air vent therefor, a transversely extending block element secured to the top end of said stud member, a pair of parallel arms secured to said block element on opposite sides of said stud member and extending parallel to said bore, a yoke member slidably mounted on said arms, a pin element



rigidly carried by said yoke member in alignment with said bore, said yoke member being movable along said arms to allow the pin element to enter the bore, and spring means biasing said yoke member away from the stud member toward a position wherein the pin element is outside said bore.

2,609,962
COMBINATION TOOL
Whitt N. Schultz, Highland Park, Ill.
Application June 27, 1946, Serial No. 679,610
1 Claim. (Cl. 220—52)



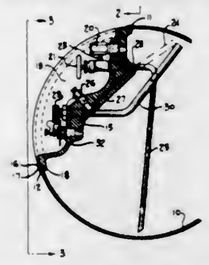
A kitchen tool including an elongated shank having an upper end provided with an enlarged head and a lower end having an open ended slot extending longitudinally and medially of said end and adapted to embrace the tab of a vacuum can, said shank being longitudinally curved and having tapered sides converging from the head to the lower end thereof, said shank between its ends having on one side thereof a longitudinally extending open ended second slot substantially parallel with and opening in the same direction as the end slot and arranged to embrace the tab of a sardine-type can, the portion of the shank below the closed end of the second slot converging to the lower end so that when a tab of a sardine can is inserted in the second slot and wrapped around the shank to form a tear-strip, the latter may be axially slidable on the shank so as to be removed from the lower end thereof, and the sides of the lower end of the shank between the end slot forming spaced tines terminating in curved ends at the mouth of the end slot.

2,609,963
ADHESIVE COMPOSITION AND SEAM
Frederick K. Watson, John L. Ludlow, and John C. Tallman, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 15, 1949, Serial No. 99,366
10 Claims. (Cl. 220—81)

1. A hot melt adhesive composition comprising, per 100 parts of adhesive composition, from 15 to 50 parts of N-alkoxymethyl polyhexamethylene adipamide, from 10 to 50 parts of a high boiling alcohol which is liquid at about room temperature and which boils at a temperature of at least about 160° C., and from 10 to 70 parts of a thermoplastic alcohol-soluble resin other than a polyamide derivative, said N-alkoxymethyl polyhexamethylene adipamide containing from 1 to 4 carbon atoms in the alkoxy group and having from 30% to 50% of the hydrogen on the carbonamide groups substituted by alkoxymethyl groups.

10. As an article of manufacture, a can fabricated from tin-plated sheet metal, the side seam cement of said can comprising the adhesive composition of claim 1.

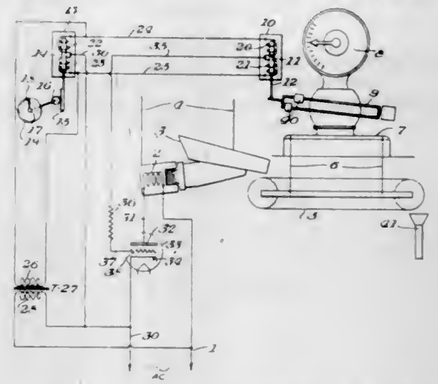
2,609,964
RECESS MOUNTING FOR VALVES AND FITTINGS FOR LIQUEFIED PETROLEUM GAS CONTAINERS
Ralph K. Cadwell, Los Angeles, Calif., assignor to American Pipe & Steel Corporation, Alhambra, Calif., a corporation of Nevada
Application April 4, 1947, Serial No. 739,500
2 Claims. (Cl. 220—85)



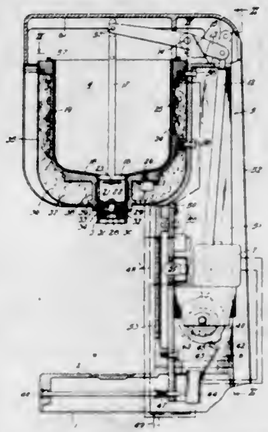
1. A tank having a cylindrical wall, there being an elongated opening in said wall extending about 90° of the curvature of the wall, a mounting fitting receivable through the opening from the exterior thereof, said mounting fitting having a back-up flange extending entirely therearound adapted to bear against the interior surfaces of the walls of the tank adjacent the edges of the opening, said mounting fitting having a shoulder extending entirely therearound inwardly of the back-up flange adapted to be positioned opposite the edges of the opening in spaced relation thereto to provide a groove between the shoulder and the edges of the opening to receive a weld, the shoulder being substantially flush with the outer surfaces of the tank, external welds between the shoulder and the edges of the opening, and one or more valves on the mounting fitting providing for communication therethrough to the interior of the tank, said mounting fitting being characterized by being externally recessed within the edges of the opening so that the valves thereon will be disposed within the general external contour of the tank.

2,609,965
ELECTRONIC CONTROL FOR GRAVIMETRIC FEEDERS
George Kast, Homer City, Pa., assignor to Syntron Company, Homer City, Pa., a corporation of Delaware
Application November 30, 1949, Serial No. 130,317
3 Claims. (Cl. 222—55)

1. A control circuit for a gravimetric feeder having a vibratory conveyor supplying a constant speed conveyor mounted on a weighing device comprising a motor for said vibratory conveyor, a pair of inductive transducers having coils and movable magnetic cores, said coils being connected in multiple with each other and with a circuit for supplying an alternating current excitation thereto, one of said magnetic cores connected to a movable member of said weighing device and the other connected to a manually positioning member, a triode having its anode and cathode connected in series with the motor of the vibratory conveyor, and connections intermediate said coils to form an output bridge connected to the grid and cathode of the triode to control the operation of said motor.



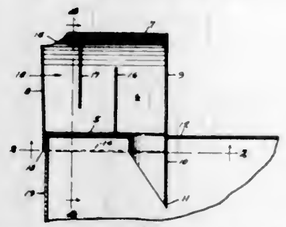
2,609,966
HOT FUDGE DISPENSER
Gerald B. Henry, Buffalo, N. Y., assignor to Henry and Henry, Inc., Buffalo, N. Y.
Application July 28, 1948, Serial No. 41,117
3 Claims. (Cl. 222—70)



2. A hot fudge dispenser comprising a support having a base with a standard rising therefrom, an open top pot supported by the standard at its upper end to overhang the base, said pot having a depending measuring chamber and a discharge orifice in its bottom, a spring seated cut-off valve in the orifice, a plunger having a sliding fit in the measuring chamber and operable to intake fluid from the pot on its upstroke, said plunger moving upwardly from the cut-off valve during its intake stroke, and power means operable to depress the plunger to express a measured charge of fluid from the chamber through the valved orifice, said means including a rockable lever pivoted on the standard and overhanging the open

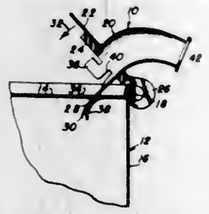
top pot, a plunger carrying rod connected to the rockable lever, and time mechanism operating the power means through a cycle of movement to deliver the charge of fluid and then intake a new charge into the measuring chamber before coming to rest.

2,609,967
DEVICE FOR DISPENSING GRANULAR SOAP
Maynard C. Persons, Fair Haven, Vt.
Application September 11, 1950, Serial No. 184,251
1 Claim. (Cl. 222—81)



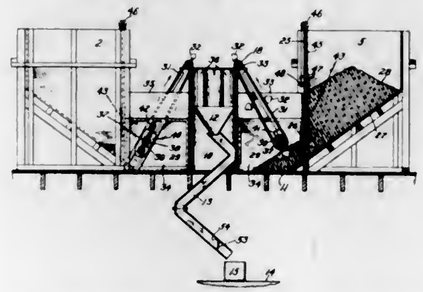
A removable measuring dispensing device for positioning on a container, comprising a box-like body having its upper front edge cut away providing a discharge opening, a substantially long tubular extension connected with the box-like body providing a filling spout extending downwardly from the diametrically opposite rear edge of the body, said extension communicating with the body, the free end of said extension being beveled providing a combined piercing end, scoop and filling opening adapted to pierce a container top on which the device is positioned, a flange extending downwardly from the front edge of the body in parallel spaced relation with said extension, cooperating with said extension in gripping the container, securing the body in position on the container, and division plates within the box-like body dividing the space within the body into communicating measuring compartments between the discharge opening and filling opening measuring the quantity of material dispensed, one of said compartments communicating with the filling opening, and one of said compartments communicating with said discharge opening.

2,609,968
OPENING AND POURING ATTACHMENT FOR CANS
Vincent A. Ream, Greenville, Ohio
Application June 22, 1949, Serial No. 100,729
5 Claims. (Cl. 222—90)



1. In a can opening and pouring attachment, a substantially tubular member constituting a combined handle and spout provided at one end thereof with a pointed extension having sharp cutting edges, an external flange positioned intermediate the ends of said member, a pair of spaced hook-shaped fulcrum elements provided on said flange in spaced relation to the member and adapted to engage the upper edge of a can whereby said member may be actuated to form an opening in the top of the can by the cutting edges thereof, and a pair of spaced resilient detents struck out from said member adjacent the under side of said flange, said detents being responsive to said member penetrating a can top to engage the under side of the can top for retaining the attachment in position on the can.

2,609,969
APPARATUS FOR COMBINING MATERIALS
Thomas B. Epps, Boston, Mass.
Application September 24, 1947, Serial No. 775,943
8 Claims. (Cl. 222—135)



1. An apparatus for combining measured amounts of a plurality of different kinds of materials in predetermined proportions to successively produce individual measured batches of mixed materials each of a predetermined size, said apparatus comprising a plurality of bins each holding a supply of one kind only of said materials and each provided adjacent to its bottom and at one side thereof with an outlet through which the material of the bin is fed by gravity into a gutter leading from said outlet; a separate conveyor adjacent to each bin having a lower end portion co-operatively disposed in proximity to the material within said gutter, and each of said conveyors being equipped with measuring buckets to pick up material from said gutter when said conveyor is actuated thereby to intermittently feed measured amounts of said material upwardly to an upper end portion of said conveyor; a single material mixing delivery chute into an upper end of which all of said conveyors discharge their bucket-measured amounts of material to combine the latter and cause the same to descend said mixing chute under the influence of gravity, and means for operating said conveyors, the inlet end of each chute being above the level of its bin outlets and said gutters.

2,609,970
COMBINED CLOSURE CAP FOR CLOSING THE OUTLET SPOUT AND KEY FOR OPENING THE FILLING PLUG OF A LIQUID CONTAINER
Samuel S. Blumson, Baltimore, Md.
Application April 20, 1948, Serial No. 22,197
1 Claim. (Cl. 222—192)

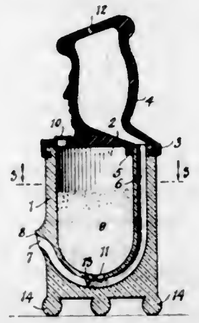
A fuel container for dispensing liquid fuel to a lighter, comprising a casing, a hollow screw threaded stem at the dispensing end of the casing, said stem terminating in an open end, a cap threaded to said stem, said cap being dome-shaped and terminating in a tool tip usable to remove the screwthreaded closure of the lighter, said cap being magnetized to retain the screw-

threaded closure of the lighter, an internal washer between said stem and the internal wall of the cap, said washer closing the open end of the hollow stem when the cap is screwed in place, said cap having an external peripheral shoulder



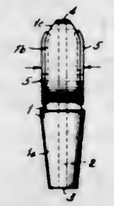
thereon, a chain retaining said cap to said casing when the cap is unscrewed, and a cover over the cap in frictional engagement therewith and resting on said shoulder, said cover providing a shield over the tool end of the cap.

2,609,971
SALT DISPENSER
Michael D. Vivolo, New York, N. Y.
Application July 24, 1950, Serial No. 175,640
1 Claim. (Cl. 222—193)



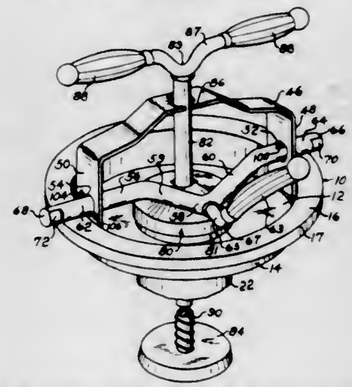
A dispenser for salt or similar powdered material comprising, an open-top and closed-bottom container, a compressible bulb fitted on the open top of the container, the wall of the container being provided with a passage connected at one end to the outlet of the bulb at the top of the container, said passage passing on a curved line through the bottom of the container and having an outlet opening in one of the side walls of the container, and the bottom of the container being provided with an aperture establishing communication between the interior of the container and the interior of the passage, said aperture being at substantially the lowest point within the container whereby powdered contents of the container will pass through said aperture to reach the interior of the passage and be ejected therefrom by air blast exerted by compression of the bulb.

2,609,972
DEVICE FOR DROPWISE DISPENSING OF LIQUIDS
George Szekely, Tel Aviv, Palestine
Application October 21, 1947, Serial No. 781,023
In Palestine November 15, 1946
1 Claim. (Cl. 222—207)



A dispenser for liquid serving as a stopper for the neck of a receptacle having a stopper portion and a beak portion comprising the outlet branch connected to each other, said beak portion being formed of resilient material and extending substantially laterally from said stopper portion to thereby form an elbow therewith, an internal passage of elongated cross section leading through said stopper portion and beak portion, said passage being substantially medially of the stopper portion and extending longitudinally in an axial direction, the passage in the beak portion being directed substantially transversely to the passage in the stopper portion, a reinforcement situated on and extending above the elbow of the branches toward said beak portion and substantially in parallelism to the longitudinal axis of the passage, an outlet slit in the beak portion at the end thereof positioned transversely of the longer cross sectional axis of said passage and normally closed by the resiliency of the material, the reinforcement being integrated to the beak portion to prevent extension thereof, the device having the beak end to one side of the elbow extending clear of the stopper portion and responding to pressure adjacent the elbow on the reinforcement to interrupt the passage and serving to urge the stopper into the receptacle and under the said pressure the liquid in front of the bend is moved into the outlet branch, wherefrom it falls as a drop with accuracy of placement.

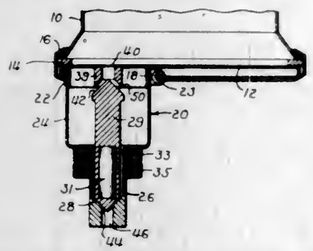
2,609,973
SPRAYER
Giles E. Bullock, Rochester, N. Y.
Application September 16, 1950, Serial No. 185,279
12 Claims. (Cl. 222—401)



1. In a pressure cylinder and pump combination, a pressure cylinder head having an inverted

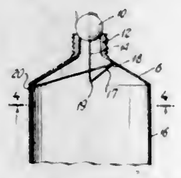
annular channel around its marginal edge, and a central aperture having an integral inturned sleeve, a pump cylinder extending through said aperture and secured to said sleeve in sealed permanent engagement, said pump cylinder having a removable cap on its upper end, and a piston actuating rod extending through an aperture in said cap, locking means located on said head and movable to a locking position for securing said head in sealed engagement with the open end of a pressure cylinder, and means when in locking position associated with said locking means for securing said cap upon the pump cylinder.

2,609,974
DISPOSABLE PLASTIC VALVE
Donald W. Brous, Francestown, N. H., assignor to Food Engineering Corporation, Manchester, N. H., a corporation of New Hampshire
Application April 19, 1950, Serial No. 156,898
8 Claims. (Cl. 222—442)



1. A disposable, metering valve structure suited for use in the dispensing of a liquid from an up-ended bulk container or the like comprising a lid provided with a fixture affording a valve seat, which seat is spaced from the external surfaces of the lid in the immediate area of the fixture, said valve structure including a plastic body member adapted to be detachably secured under and about said valve seat, said body member including a cup portion having an aperture therein and a portion providing a second valve seat below the level of the bottom of the cup portion, and a plastic plunger reciprocal within said body member having a magnetic core and opposed terminal portions shaped for seating in said valve seats, the aperture in said cup portion being so located that in operation of the valve structure the same stands at a level above that of the lower edges of the valve seat associated with said lid.

2,609,975
SPRING CLOSURE FOR COLLAPSIBLE TUBES
Frank A. Senger, Somerville, N. J., assignor to Ortho Pharmaceutical Corporation, a corporation of New Jersey
Application July 16, 1949, Serial No. 105,133
1 Claim. (Cl. 222—496)



A spring actuated closure device for a collapsible tube, comprising in combination with a collapsible tube having a neck with an opening therethrough, a cylindrical tube body closed at one end, and a conical tube part between the neck and tube body; a stopper for closing the opening in the tube neck and seated therein, a spring attached to said stopper and extending through the tube neck and into the tube with a first bend and a second bend, the spring at the point of the second bend resting against the conical tube part, and at its end resting against the cylindrical tube body at the juncture of the said cylindrical tube body and the said conical tube part; the distance between the first and second bends in the spring being less than the distance between the first bend and the juncture of the conical part of the tube with the tube neck when the spring is positioned inside the tube; the spring in position being adapted to yieldably hold the stopper against the tube neck and over the opening in the said tube neck.

2,609,976
COLLAR SUPPORTING ATTACHMENT FOR COAT HANGERS
Alma S. Burk and James A. Burk, Lynwood, Calif.
Application January 7, 1949, Serial No. 69,635
1 Claim. (Cl. 223—92)



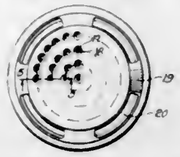
In a collar-supporting attachment for a garment hanger, an elongated strap-like body portion adapted to be flexed into arcuate form having hanger engaging notches adjacent the ends thereof adapted to engage opposite sides of a hanger and dispose the body portion in curved formation extending angularly upwardly and outwardly from the hanger, with an intermediate portion inclined and presented upwardly to form a collar receiving seat; said notches extending upwardly from the lower edge of the body portion and being enlarged toward their inner ends and having outer edges extending substantially at right angles to the longitudinal axis of the body portion to closely engage and grip one side of the hanger and having inwardly inclined inner edges adapted to tightly grip the other side of the hanger and hold the body portion in its curved and angularly disposed position.

2,609,977
ALL-PURPOSE GARMENT HANGER
Elizabeth Ciccone Lausch, Garfield, N. J.
Application April 18, 1951, Serial No. 221,684
1 Claim. (Cl. 223—92)



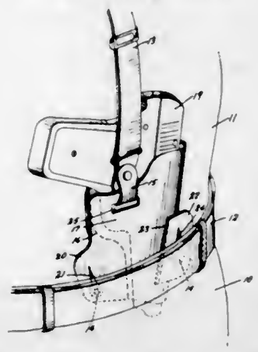
A one piece rigid garment hanger having an upper portion, a pair of side portions extending downwardly and inwardly from the outer ends of said upper portion, an outwardly extending arcuate bottom section extending from the lower end of each of said side portions, a web arranged intermediate the ends of said upper portion, and a hook pivotally connected to said web, there being a plurality of notches formed in the outer surfaces of said web, upper and side portions, said garment hanger adapted to selectively support a camisole dress, an off-the-shoulder dress, a strapless dress, a halter-type dress or a bare midriff type dress, said arcuate sections being adapted to provide a support for the waist line of the garment.

2,609,978
VENTILATED SEWING THIMBLE
Faith E. Harden, Chicago, Ill.
Application September 2, 1950, Serial No. 182,964
1 Claim. (Cl. 223—101)



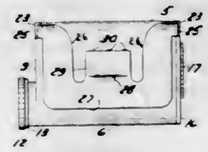
A sewing thimble comprising a shell having the upper portion thereof provided on its exterior with closely spaced depressions for engagement with the head of the needle, each said depression having an aperture therein extending through said shell, the said apertures individually being smaller than the head dimensions of the smallest needle with which the thimble is intended to be employed.

2,609,979
PISTOL HOLSTER
Ben A. Spann, Denver, Colo., assignor of one-half to W. T. Moyers
Application June 9, 1950, Serial No. 167,141
2 Claims. (Cl. 224—2)



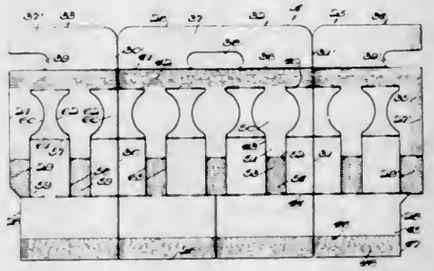
1. A pistol holster adapted to be positioned between a suspender strap and the suspender buttons on a pair of trousers, comprising: a holster front; a holster back, said front and back being secured together to form a pistol enclosure; ears extending oppositely outward from said holster front adjacent the bottom thereof, each of said ears being provided with a buttonhole for receiving one of said suspender buttons said holster extending upwardly above said ears for a major portion of its vertical length; and an opening formed in the upper portion of said holster front adapted to receive said suspender strap.

2,609,980
BATHER'S SAFETY POCKET
Stephen Morgenstern, Toledo, Ohio
Application July 5, 1949, Serial No. 102,974
2 Claims. (Cl. 224—26)



1. A U-shaped spring clip comprising a pair of parallel legs, a connecting portion from which the legs extend, said legs terminating in offset ears, and a case having seats mounting said ears of the clip for limited swing movement relatively to the case, said connecting portion having a tongue fulcrumed thereto by an offset toward the case with the tongue extending between the legs to a point-carrying free end adapted to snag into apparel passed under the legs along the case and coacting upon depression of the connecting portion toward the case to shift the point-carrying free end clear of the apparel.

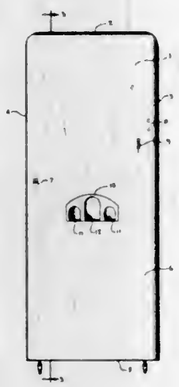
2,609,981
TUMBLER CARRYING CARTON
Hubert Velman Bolding, Jeffersonville, Ind., assignor to The Bradley & Gilbert Company, Louisville, Ky., a corporation of Kentucky
Application April 11, 1950, Serial No. 155,276
4 Claims. (Cl. 224—48)



1. A blank for forming a carrier carton comprising an elongated rectangular sheet having upper and lower longitudinal edges and opposite end edges, an upper longitudinal score line parallelly spaced from said upper edge to define handle portions, an upper intermediate score line parallelly spaced below said upper score line to define connecting portions between said upper score line and said upper intermediate score line, a lower intermediate score line parallelly spaced below said upper intermediate score line to define partition-forming portions between upper intermediate and lower intermediate score lines, said lower intermediate score line being parallelly spaced above the lower edge of the blank to define bottom-forming portions therebetween, and a lower score line parallelly spaced below said lower intermediate score line and spaced upwardly from the lower edge of the blank to define connecting portions for said bottom-forming portions, said partition-forming portions being formed with laterally spaced pairs of vertical slots, said vertical slots defining members therebetween having upper portions serving as components of a longitudinal partition for said carton and supplementing said partition-

forming portions, said members having lower portions supplementing said bottom-forming portions to provide a bottom for the carton, adjacent pairs of said vertical slots acting to define therebetween portions of said blank arranged to serve as longitudinally spaced transverse partitions for the carton, said upper portions of said longitudinal partition components having laterally spaced vertical score lines defining ears on opposite sides of said upper portions arranged to supplement said transverse partitions.

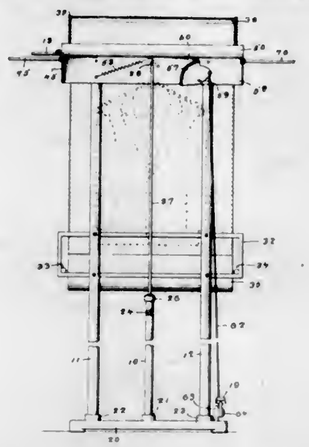
2,609,982
FLUID DISPENSING MACHINE
Robert W. Johnson, Lakeland, Fla.
Application September 24, 1947, Serial No. 775,933
22 Claims. (Cl. 225—21)



1. A vending apparatus comprising means for supporting a plurality of fluid-containing sealed containers, a fluid reservoir for reception of a quantity of the fluid to be dispensed, means responsive to a minimum quantity of fluid in said reservoir to puncture one of said containers and permit the contents thereof to be discharged into said reservoir.

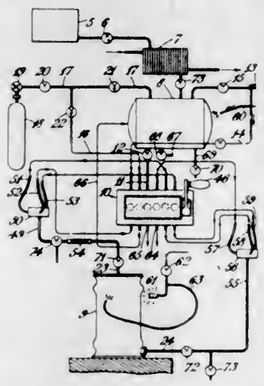
2,609,983
GARMENT BAGGING MACHINE WITH CUTTING MECHANISM FOR TUBULAR MATERIAL
John J. Denton, Morganfield, Ky.
Application October 26, 1949, Serial No. 123,670
5 Claims. (Cl. 226—18)

1. In a garment bag machine, the combination which comprises a vertically disposed stand, a tubular pedestal mounted on the stand, a telescoping rod having a garment hanger carrying fork on the upper end vertically slidable in the tubular pedestal, means retaining the rod in an upwardly extended position, a frame including a pair of posts extended upwardly from the base of the stand and positioned behind the pedestal, cutting means slidably mounted on the upper ends of the posts, an arcuate shoe carried by the upper ends of the posts, means mounting a roll of tubular paper material on the posts with the tubular material positioned to travel over the shoe, downwardly in the path of the cutting means and over a garment carried by a hanger suspended in the fork at the upper end of the rod of the pedestal, a foot treadle carried by the lower end of the stand, a rod extended from



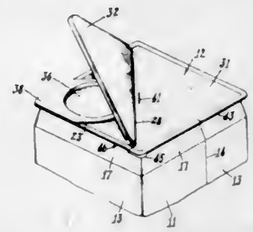
the treadle to the cutting means for actuating the cutting means.

2,609,984
SYSTEM AND APPARATUS FOR STERILIZING CONTAINERS AND FILLING THEM WITH A STERILIZED BEVERAGE
Frederick John Trevallon Barnes, Kingston-on-Thames, England
Application November 26, 1949, Serial No. 129,642
In Great Britain April 8, 1949
8 Claims. (Cl. 226—68)



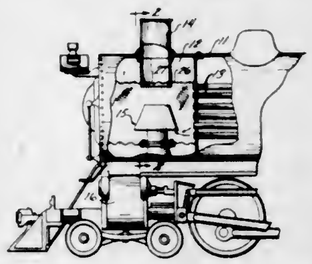
1. Apparatus for filling containers with beverage comprising a source of sterilizing fluid, a source of inert gas, a source of sterilized beverage, a closed beverage tank in which sufficient beverage is stored to fill a plurality of containers, means for delivering the sterilizing fluid, inert gas and sterilized beverage to the storage tank, a separate pipeline for delivering the sterilizing fluid, inert gas and beverage to a container each pipeline being connected with said storage tank, a control valve for each pipeline and common means for actuating said valves in sequence whereby, prior to the storage tank being filled with sterilized beverage, the sterilizing fluid and inert gas are passed through the storage tank, along that portion of each of said three pipelines which extends from the storage tank to the container and through the container.

2,609,985
CONTAINER WITH FLAT TOP AND INTEGRAL OVERCAP
George C. Reid and Samuel S. Jacobs, Brooklyn, N. Y., assignors to American Can Company, New York, N. Y., a corporation of New York
Application May 22, 1947, Serial No. 749,805
3 Claims. (Cl. 229—7)



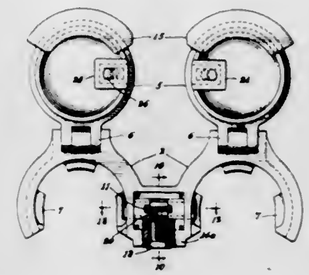
1. A container for liquids comprising a tubular body having a substantially flat composite end member secured thereto in a laterally projecting end seam, said composite end member comprising an outer imperforate top member having a fixed portion embodied in said end seam and an integrally formed hingeable protective over-cap portion having a peripheral flange folded over and beneath an opposed part of said projecting seam, said end member further comprising a fixed inner dispensing member disposed beneath said hingeable portion of the top member and secured to the fixed portion thereof, said dispensing member being embodied at a portion of its periphery in said opposed part of said seam and having a dispensing opening therein, and a closure element having a friction plug thereon disposed between said top member overcap portion and said dispensing member and hingedly secured to one of said members for removably closing the dispensing opening in said fixed inner dispensing member.

2,609,986
EXHAUST NOZZLE TIP FOR LOCOMOTIVES
Charles W. Baker, Spokane, Wash.
Application October 19, 1948, Serial No. 55,366
2 Claims. (Cl. 230—97)



1. In combination, a locomotive smoke box including a stack rising from the top of the smoke box and having an open lower end in the upper part of the smoke box, an exhaust nozzle positioned in the lower part of the smoke box in axial alignment with said stack, said exhaust nozzle comprising an upwardly tapered tubular intake portion having an open upper end and a lower end adapted to intake exhaust steam from the locomotive, a uniformly cylindrical open-ended tubular throat portion mounted axially on the upper end of said intake portion, said throat portion being of the same diameter as the upper end of said intake portion, and an upwardly converging conical hood surrounding said throat portion and mounted thereon, said hood having an open upper end larger in diameter than said throat portion and smaller in diameter than the lower end of the stack end spacedly surrounding said throat portion, the lower end of said hood being substantially larger in diameter than the lower end of the stack, the lower end of the hood being open and positioned on a level below the open upper end of said throat portion, the upper end of said hood being spaced at a substantial distance below the lower end of said stack.
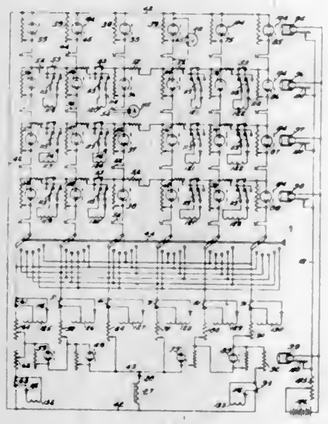
2,609,987
MILK BOTTLE HOLDER
Eugene M. Navarro, New York, N. Y.
Application February 25, 1947, Serial No. 730,762
1 Claim. (Cl. 232—41.5)



A holder comprising a pair of brackets arranged side by side, each having a pair of outspread arms with separated ends, lugs on the inner sides of said arms to engage the expanded rim of the neck of a bottle, a member attached to two of said arms and connecting said brackets, said connecting member having a chamber with an opening at one end thereof in each of said last-named arms, lock mechanism comprising a pair of bolts in said chamber, each bolt having a relatively short wide top with a relatively narrow rib on the lower side projecting beyond the rear end of the top, the sides of the chamber maintaining said tops in alinement therein, said ribs being offset towards opposite lateral edges of said respective tops and overlapping at their ends remote from the tops, a projection on the lower side of each rib at said end remote from the top, said bolts being disposed with the tops at opposite ends of said connecting member and the ribs side by side therein, said projections each being flush with the outer side of the respective rib, but widened beyond the opposite side of said rib, said projections having their adjacent sides flush with one another when the bolts are assembled, a single compression spring between the tops tending to move the projections toward each other, a rotatable lock barrel having a key slot in said member, the outer end of said barrel and said slot being exposed at the front of said holder, the inner end of said lock barrel having relatively short studs extending into said chamber between said projections, so that upon rotation of the barrel the studs each retract one of said bolts against the force of said compression spring, the openings in said chamber being in line with said bolts, each bracket having a hinged cover, a hollow abutment in each cover in line with the adjacent opening when the cover is down, the covers

having flanges to cover the spaces between the ends of each pair of arms, a hollow piston in each abutment, a stud on each piston projecting from the end of the abutment, a compression spring engaging each plunger to project said stud, each abutment having an opening in line with the adjacent bolt, the stud thereof being engageable by a sealed bottle in the holder to force the piston to uncover the opening to free the adjacent bolt for movement into position to secure the cover.

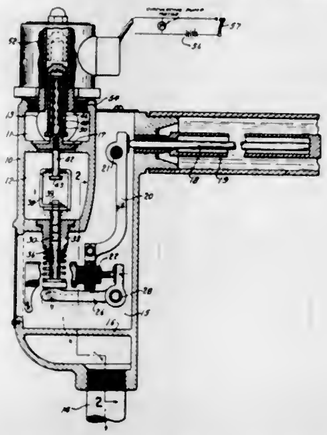
2,609,988
ELECTRIC ANALOGUE COMPUTER
Sterling Beckwith, Wauwatosa, and Eldo C. Koenig, Waukesha, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application March 17, 1950, Serial No. 150,117
11 Claims. (Cl. 235—61)



10. A magnetic saturation analyzer for determining the flux in the components of a magnetic circuit, said analyzer comprising an electric circuit including a plurality of series circuits connected in parallel to a source of unidirectional voltage, each said series circuit comprising a nonlinear resistance element, a linear resistance element and another source of unidirectional voltage connected in series with said resistance elements, and means for simultaneously varying the values of said other voltages in a sine wave space distribution to correspond to the sine wave distribution of ampere turns in said magnetic circuit.

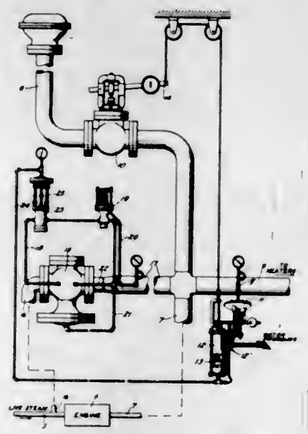
2,609,989
GAS VALVE CONTROL
Adolf J. Burklin, Toledo, Ohio, assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application October 7, 1948, Serial No. 53,167
6 Claims. (Cl. 236—9)

1. In combination in a heating system, a normally closed fuel valve disposed to control the supply of fuel to the system, means disposed to open said valve, a cushioned lost motion connection between said means and said valve to provide a biasing force for opening the valve when said means is moved to valve opening position and to release said valve when said means is moved to valve closing position, a movable stop disposed to determine the amount said valve opens in any given operation, and a thermostat responsive to the heat medium of said system and operatively connected to move said stop to



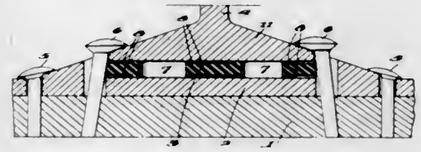
limit the operation of said valve in a manner modulated to the temperature of such heat medium.

2,609,990
STEAM ECONOMIZING SYSTEM
Paulsen Spence, Baton Rouge, La., assignor to Spence Engineering Company, Inc., Walden, N. Y., a corporation of New York
Application October 11, 1949, Serial No. 120,705
13 Claims. (Cl. 237—9)



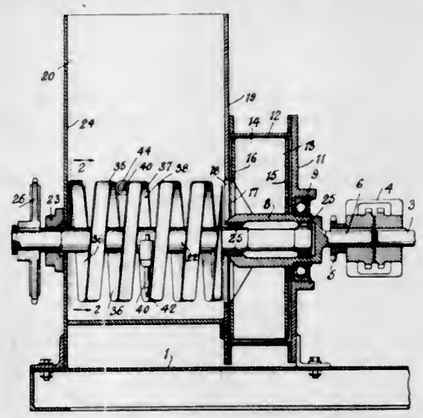
9. In a steam-economizing system of the character indicated, steam-operated means including an inlet and an exhaust outlet, a damper in said exhaust outlet, heater means connected to said steam-operated exhaust outlet between said means and said damper, pressure-responsive damper-actuating means in said exhaust outlet between said steam-operated means and said damper and connected to said damper to close said damper upon a drop in back pressure below a given value, a by-pass connection between the inlet to said steam-operated means and said heater means, said by-pass connection including on-off control means responsive to exhaust pressure upstream from said damper to open said by-pass connection upon a sufficient drop in exhaust pressure to effect closure of said damper, said control means being further effective to close said by-pass connection upon a sufficient rise in exhaust pressure to effect an opening of said damper, whereby live steam may never be vented by said damper.

2,609,991
VACUUM GRIP RAIL ANCHOR
Herbert Terra Jones, Harrisburg, Pa.
Application March 4, 1948, Serial No. 12,971
18 Claims. (Cl. 238—283)



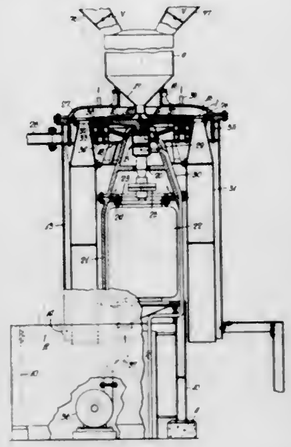
1. A rail anchor for securing a railroad rail-base member in a rail-seat member comprising a compressible resilient diaphragm for interposition between the rail-base member and the rail-seat member, said diaphragm comprising means for bonding it to each of said members including vacuum generating elements terminating in at least one of its faces for restraining lifting and longitudinal movement of the rail relative to the rail-seat.

2,609,992
CRUSHING OR PULVERIZING MACHINE
Vincent Joseph Matthews, Nutley, N. J., assignor to John H. Matthews & Sons, North Arlington, N. J., a partnership
Application August 30, 1950, Serial No. 182,349
5 Claims. (Cl. 241—56)



1. In a crushing or pulverizing machine, a hopper for receiving material to be crushed, a rotatable shaft extending across the interior of the hopper, a spiral feeding blade on said shaft, the periphery of said blade being provided with a continuous laterally-extending flange, breaker points secured between the face of the blade and the free edge of the flange, breaker teeth provided at spaced intervals on the inner wall of the hopper, the breaker points being movable between the teeth on rotation of the shaft, an impeller housing in communication with the hopper, an impeller rotatively mounted therein and receiving the crushed material from the feeder, the impeller having an outlet through which the crushed material is discharged on rotation of said impeller.

2,609,993
IMPACT PULVERIZING MILL, INCLUDING BOTH COOLING AND VACUUM MEANS
René Planiol, New York, N. Y., assignor, by mesne assignments, to Plaroc, Inc., New York, N. Y., a corporation of New York
Application February 6, 1947, Serial No. 726,907
In Canada April 9, 1946
4 Claims. (Cl. 241—67)

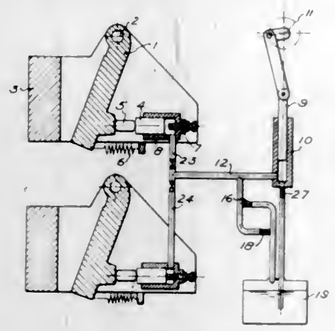


1. An impact pulverizer comprising a hopper, a rotor plate having a vertical axle therebelow, means for rotating the axle, inlet and outlet passageways longitudinally of said axle, said plate having radiating hurling vanes, a stationary impact ring about said plate, said plate having radiating passageways therein near the respective vanes, each including (1) a run extending outward to near the periphery thereof and directly connected with the upper end of the corresponding inlet passageway in said axle and (2) a return run extending inward near and substantially parallel to said first run and directly connected with the upper end of the corresponding outlet passageway in said axle and means for circulating cooling liquid by pressure propulsion in parallel through the several paths, each of which paths consists of an inlet passageway in the axle, an outward run on the rotor, a return run on the rotor and an outlet passageway in the axle, means for circulating cooling fluid through said ring, a housing enclosing said rotor and said impact ring, and means for maintaining the interior of said housing under vacuum.

2,609,994
POWER TRANSMISSION IN JAW CRUSHERS
Kenneth Gauldie, Toronto, Ontario, Canada
Application April 9, 1948, Serial No. 20,140
In Great Britain April 27, 1947
5 Claims. (Cl. 241—148)

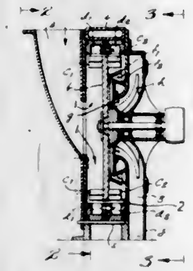
1. In a crusher having a reciprocatable jaw, a hydraulic system for operating the jaw to produce crushing strokes thereof including a ram cylinder, a ram in the cylinder acting on said jaw, and a hydraulic power-transmitting liquid engaging said ram, and means for imparting a return stroke to the jaw after completion of each crushing stroke, a power-driven, oscillating, primary member engaging said liquid to produce pressure impulses therein, and a secondary member having a periodic movement the frequency of which is half that of the pirmary member,

said secondary member engaging said liquid to transmit conjointly with the primary member, pressure impulses to the ram to force the jaw forward in crushing strokes each extending from the extreme backward limit to the extreme forward limit of movement of the jaw, said crush-



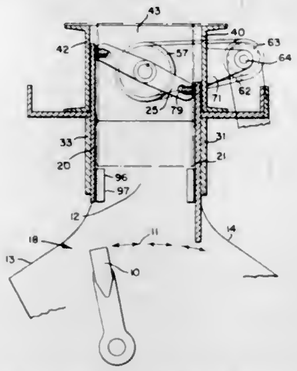
ing strokes having a frequency equal to that of said secondary member, and the duration of each said crushing stroke being less than half the period of one cycle of movement of said secondary member.

2,609,995
CENTRIFUGAL MILL
Josef Klagsbrunn, Geneva, Switzerland, assignor to Ernest Markus, Geneva, Switzerland
Application May 7, 1949, Serial No. 91,961
In Switzerland May 7, 1948
5 Claims. (Cl. 241—154)



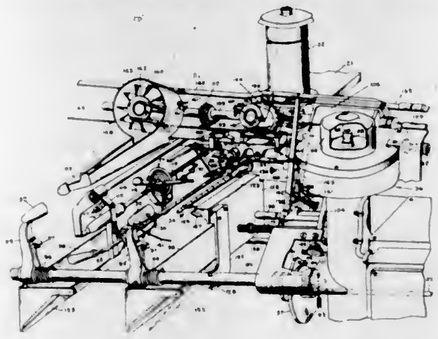
1. A centrifugal mill comprising, in combination, a casing having a central portion and inner peripheral wall; means for supplying the material to be milled to said central portion of said casing; thrust means rotatably mounted in said casing for hurling said material to be milled from said central portion of said casing toward said inner peripheral wall of said casing; and a plurality of chambers fixedly mounted on said inner peripheral wall of said casing, said chambers being formed with entrance openings which open toward said central portion of said casing so as to receive the material to be milled from said thrust means, said chambers having a substantially spiral inner wall with helical grooves formed therein, said wall forming a bottom for said entrance opening and forming an extension of said bottom of said entrance opening, a portion of said wall adjacent to said extension being curved so as overlie said extension of said bottom of said entrance opening.

2,609,996
HAMMER MILL FEED DELIVERY CHUTE, INCLUDING DUST GUARD
Arthur J. Layberger, Havertown, Pa., assignor to Pennsylvania Crusher Company, Philadelphia, Pa., a corporation of New York
Application August 11, 1950, Serial No. 178,798
6 Claims. (Cl. 241—186)



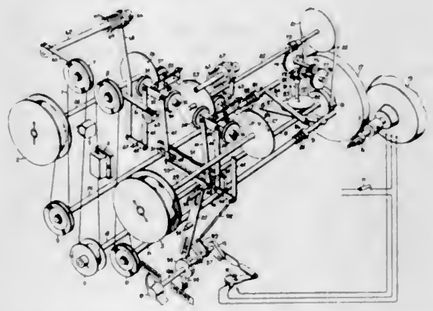
2. A dust guard for a hammermill having a delivery chute centrally spaced over a reversible rotor with hammers thereon and having breaker plates on both sides of the exit of said chute comprising two plates on opposite sides of said chute extendible toward said rotor up to and adjacent the periphery of the rotating hammers, rocker arms rotatably mounted at a central point thereof and pivotally and slidably supporting said plates at opposite ends of said rocker arms to alternately raise one plate while lowering the other plate to correspond to the direction of rotation of the hammers.

2,609,997
YARN WINDING MACHINE
Donald Ross Eastwood, Drummondville, Quebec, Canada, assignor to Celanese Corporation of America, a corporation of Delaware
Application March 7, 1946, Serial No. 652,549
9 Claims. (Cl. 242—32)



1. A machine for winding yarn tubes comprising, in combination with a spindle for rotating a pirn tube and means for guiding the pirn tube into engagement with said spindle, a traversing mechanism movable lengthwise of the pirn tube until the winding of the yarn thereon is completed, and means for automatically stopping the rotation of said spindle when the winding of the yarn on the pirn tube is completed, means for automatically replacing a wound pirn by an empty pirn tube upon which the winding of a new pirn continues, said latter means including a rocker shaft for supporting said pirn tube guiding means, a lever connected to said rocker shaft, means for actuating said lever to move said rocker shaft to effect a withdrawal of said pirn tube guiding means permitting the wound tube to fall away from said traversing mechanism, tube guiding means and spindle, means for moving said traversing mechanism moving means to move to said spindle the length of yarn extending from the supply to the wound pirn, a carriage and a drum cam operatively connected to said carriage for reciprocating the same to move a fresh pirn tube in line with said pirn tube guiding means and said spindle, a magazine for supplying a fresh pirn tube to said carriage at the starting position thereof, said magazine including a rotor having fins for dividing said magazine into compartments each adapted to hold a single fresh pirn, means for turning said rotor for discharging a fresh pirn from one of said compartments on to said carriage, and means for restarting the winding operation.

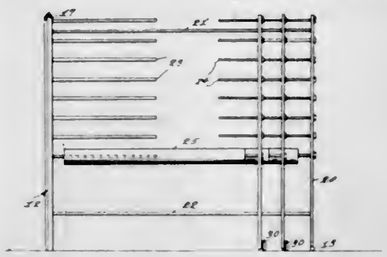
2,609,998
TENSION CONTROL SYSTEM
Arthur W. Sear, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application October 30, 1945, Serial No. 625,504
17 Claims. (Cl. 242—54)



1. In a tension control system for a traveling strip of material, a pair of spaced reels, constant speed driving means engaging said strip intermediate said reels, a driving disk, a driven disk connected to each said reel and positioned in the plane of said driving disk, a pair of axially movable jackshafts each carrying at one end a friction roller engaging said driving disk and at the other end a friction roller engaging one of said driven disks, and separate means responsive to the tension of said strip between each said reel and said strip driving means for tilting the associated jackshaft with respect to the common diameter of said disks.

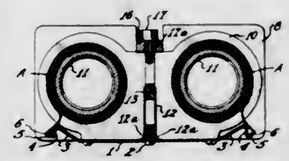
2,609,999
DISPLAY RACK FOR CLOTH
William M. Daines, Logan, Utah
Application October 6, 1949, Serial No. 119,921
2 Claims. (Cl. 242—55.3)

1. A display rack for cloth in the bolt comprising a frame, a fixed gate normal to the frame and movable gates having swinging or hinged connections with the frame and normally paralleling the fixed gate, the gates being of progressively increasing breadth, with that of the fixed gate the greatest, each gate having means for supporting in superposed relation a plurality of bolts of cloth, the breadth of each gate exceeding that of the gate in front of it by a material amount, so that when the gates are in parallel relation the ends of all the contained bolts of cloth will be readily observable, the fixed gate



and frame having floor-bearing feet so that the whole will be sustained at three-bearing points, and the swinging gates having anti-friction floor-bearing means at the ends remote from the frame, so that the gates may be swung outwardly to give access to any bolt of cloth for unrolling and severing a portion thereof.

2,610,000
TAPE DISPENSER
Fred Vierson, Cincinnati, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
Application October 5, 1948, Serial No. 52,820
5 Claims. (Cl. 242—55.4)

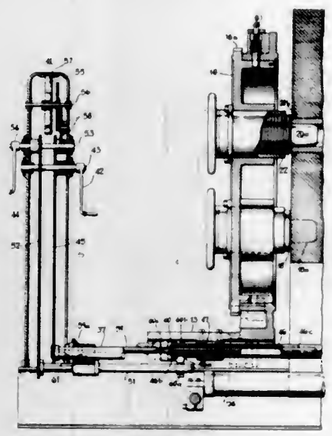


1. A tape dispensing kit provided with means for mounting two parallel rows of axially spaced and aligned rolls of tape therein, and a tear-off knife assembly formed as an integral bottom plate having a pair of tear-off knives extending substantially the length of the kit, one on one side and one on the other, one tear-off knife for the rolls on one side, and the other tear-off knife for the rolls on the other, and means for detachably securing said tear-off knife assembly in position on the kit, and a series of separator plates of uniform configuration arranged in sets of pairs with the inner or front surfaces, which engage the sides of the rolls being adapted to support one roll in each of the two parallel rows of rolls, said sets being aligned with the separator plates back to back.

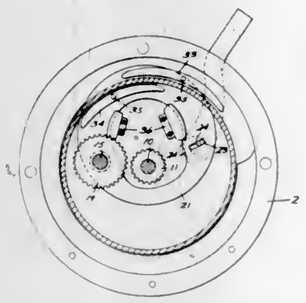
2,610,001
ROLL SUPPORTING MEANS
Edwin E. Burroughs, Brooklyn, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application October 9, 1948, Serial No. 53,710
4 Claims. (Cl. 242—64)

1. In apparatus of the class described, the combination comprising a carriage member; a pair of main frames resting upon said carriage member; a pair of angularly shiftable drums mounted respectively in said main frames; a main frame

spreading and closing shaft in threaded engagement with at least one of said main frames; mechanism for rotating said spreading and closing shaft; a collar member engaging a peripheral groove in said spreading and closing shaft whereby the latter is adapted for angular movement free of the former; means for restraining said collar member from angular movement; a threaded axial shift shaft in threaded engagement with a portion of said collar whereby an axial thrust is conveyable to said spreading and closing shaft in response to rotation of said axial shift shaft; means for transmitting a torque to said axial shift shaft; and mechanism for interconnecting said angularly shiftable drums for synchronous angular movement about their axes.

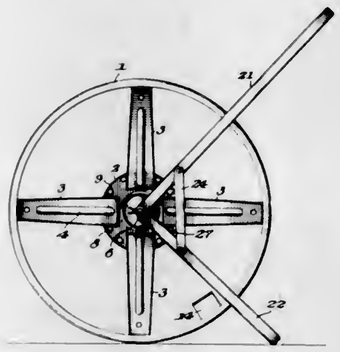


2,610,002
FISHING REEL
Otis B. Surber, Los Angeles, Calif.
Application August 1, 1946, Serial No. 687,565
4 Claims. (Cl. 242—84.6)



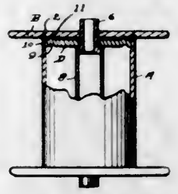
1. In a fishing reel, the combination with a rotatable spool, its shaft, a driven gear rigid with the shaft, and an annular interior brake drum rigid with the spool, of an adjustable partially rotatable plate supported for movement within the reel, a pair of brake shoes pivotally mounted on the plate for co-action with the inner and outer peripheries of the brake drum respectively, said plate having a laterally extending bearing sleeve and an operating shaft journaled in the sleeve, a driving gear on the operating shaft engaging the driven gear, means for rotating the operating shaft, and means for shifting the rotatable plate to disengage said gears and apply said brake shoes to the brake drum.

2,610,003
HOSE REEL AND COMBINED HANDLE AND SUPPORT THEREFOR
Robert D. Bond, Detroit, and Gerard J. Hungerford, Wyandotte, Mich., assignors to Douglas Machine Products Co., Wyandotte, Mich., a corporation of Michigan
Application December 27, 1949, Serial No. 135,138
3 Claims. (Cl. 242—86)



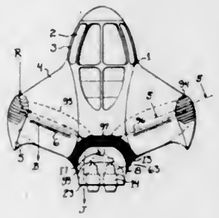
1. A hose reel and combined collapsible handle and support, said hose reel comprising an axle having an enlarged portion adjacent one end but leaving a first cylindrical extension beyond the enlarged portion, said axle having a threaded portion adjacent the opposite end but leaving a second cylindrical portion beyond the threaded portion, a pair of hub plates, said plates having central openings of a size whereby they may be mounted on said axle but preventing movement thereon beyond said axle enlarged portion, a separator means spacing said hub plates and forming a substantially cylindrical surface for winding a hose thereon, means attaching said separator means to said hub plates, a plurality of spokes welded to each of the plates on the outside portions thereof, a pair of wheels attached to said spokes; the combination of said reel with a collapsible handle and support therefor comprising two U-shaped members of different length, each member having upstanding portions and a base portion, the base portions of both members being parallel, each of said upstanding portions of each member having ends provided with apertures, and a pair of rigid members on each side of said reel pivotally connecting said U-shaped members to each other, one end of each rigid member being pivotally mounted on one of said upstanding portions of one U-shaped member and the other being pivotally mounted on an upstanding portion of the other U-shaped member on the same side of the reel whereby said U-shaped members are spaced substantially 90° from each other when they are attached to the reel, and lie substantially parallel to each other when detached from the reel with their apertures in offset relation, and means for spacing the ends of the U-shaped members from the hub plates when the U-shaped members and hub plates have been mounted on said axle, said plates having cylindrical depressed portions adjacent the periphery thereof upon which said spokes are welded whereby to avoid interference with said combined handle and support.

2,610,004
METAL BOBBIN
William H. Miller, Hazleton, Pa., assignor to Cloverleaf-Freeland Corporation, Honesdale, Pa., a corporation of Pennsylvania
Application July 13, 1948, Serial No. 38,363
1 Claim. (Cl. 242—123)



In a metallic bobbin or spool, an open-ended barrel, a head on and closing each barrel end, a plate secured in each barrel end and spaced from the head but having on its outer face localized outwardly extending protruding means contacting the inner face of its adjacent barrel head, an electrical weld interconnecting each head and the protruding means of its adjacent plate, the barrel heads and their adjacent plates being provided centrally with aligned openings, a gudgeon having a central passageway disposed in the openings at each end of the bobbin and each being provided at its inner end with a head disposed behind the inner face of its associated plate, and a hollow tubular element within the barrel having its ends in engagement with the heads of the gudgeons and holding said heads in abutment with the inner faces of the plates.

2,610,005
PROPULSIVE MEANS FOR VERTICAL RISING AIRCRAFT
Nathan C. Price, St. Helena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application December 3, 1949, Serial No. 131,028
17 Claims. (Cl. 244—12)



1. In an aircraft a propulsion system comprising, an air compressor having impeller vanes secured to a rotor, a power source for driving said compressor, a first duct and a second duct communicating with the discharge of said compressor, said first duct discharging propulsive air in a generally horizontal direction, said second duct discharging propulsive air in a generally downward direction, a valve exposed to said compressor's discharge air flow to proportion the relative amount of air flow through said first duct with respect to said second duct, and said rotor having an axis obliquely inclined with respect to the horizontal and vertical directions of flight of said aircraft to minimize the turning angles of said air flow from the compressor to said ducts.

5. In an aircraft having a fuselage the combination of; hollow wings and a hollow empennage on the fuselage, air inlets in the tip regions of the wings communicating with the interiors of the wings, a propulsive nozzle communicating with the interior of said empennage, the interiors of said wings communicating with the interior of said empennage, compressors in the tip regions of the wings for impelling air from said inlets to said nozzle, and power means for driving said compressors located in said empennage.

2,610,006
RUDDER PEDAL INSTALLATION
William C. Boyce, Dallas, Tex., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application November 18, 1950, Serial No. 196,413
7 Claims. (Cl. 244—86)

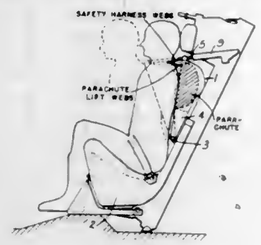


1. In an airplane having a rudder and rudder pedals controlling movement of said rudder, a rudder pedal adjustment mechanism comprising a pair of tracks rigidly secured to fixed structure of said airplane substantially parallel to the longitudinal axis of said airplane, a shaft transverse to said tracks and mounted thereon for sliding movement in relation thereto in fore and aft directions in said airplane, rudder pedals suspended from said shaft for pivotal movement, connecting means between said rudder and said pedals, means for biasing said shaft in one of said directions including a pair of spring-biased sector wheels mounted on fixed structure of said airplane operatively connected to said shaft and correlated for inverse simultaneous rotary movements, one of said sector wheels having a portion thereof having recesses therein, means for locking said sector wheels in preselected positions including plunger means for engaging said recesses, and manually operable means for disengaging said plunger from said recesses whereby said shaft may be moved along said tracks in either of said directions.

2,610,007
ADJUSTABLE PARACHUTE PACK CONTAINER AND BACK REST
James Martin, Higher Denham, near Uxbridge, England
Application August 28, 1950, Serial No. 181,749
In Great Britain May 15, 1950
5 Claims. (Cl. 244—122)

1. In combination with an aircraft seat, a separate container for holding a parachute pack carried by the airman, means for pivoting said container to the seat structure, means for adjusting the container in relation to the seat

back, and a control actuated by the airman for operating said adjusting means, the container



and pack forming an adjustable back rest for the airman.

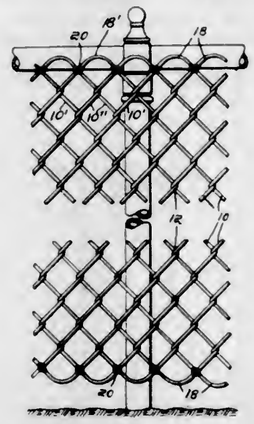
2,610,008
PARACHUTE APPARATUS
Prevost F. Smith, San Diego, Calif.
Application March 7, 1949, Serial No. 80,039
11 Claims. (Cl. 244—152)



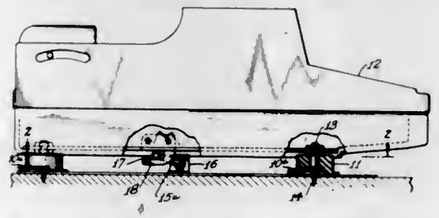
1. In a parachute apparatus of the class described, a parachute having a canopy, the combination of suspension lines each of which has one end attached to the skirt of the canopy of said parachute, a co-axial ring around said suspension lines, the other ends of said suspension lines attached to said co-axial ring, means adapted to support a load movably engaging said suspension lines, said co-axial ring adjacent the skirt of the canopy of said parachute when deployed maintaining said suspension lines folded to substantially half their full length, said coaxial ring adjacent said means when said parachute canopy is fully open, whereby initial shock load caused in deploying said parachute is substantially half in proportion to the shock load on the parachute when deployed with the suspension lines extended their full length.

2,610,009
WOVEN WIRE FENCING
Frank J. Mafera, Raymond, N. H.
Application February 17, 1949, Serial No. 76,923
2 Claims. (Cl. 245—5)

2. Woven wire fencing embodying a plurality of wire units extending in overlapped relation transversely of the fencing, each unit embodying two spaced wire strands extending in spaced zig-zag paths transversely across and connected at the margins of the fencing, the said two strands of each unit respectively overlapping two relatively adjacent units and the two adjacent strands of said two adjacent units extending around and interlocking with each other at the adjacent apices of their zig-zag paths.



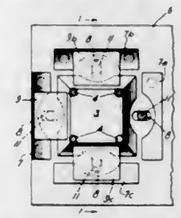
2,610,010
RESILIENT SUPPORT FOR TYPEWRITING MACHINES
Ronald D. Dodge, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 20, 1947, Serial No. 755,999
3 Claims. (Cl. 248—20)



2. A mounting device for a typewriting machine having anti-vibration feet of a form including a shell provided with a flange, comprising an oblong one-piece plate formed of sheet metal with a bent-over yoke-shaped lug for each anti-vibration foot, said lugs being arranged to partly surround said feet and overlie said flanges to prevent lifting the machine from said plate but disengageable from said feet by sliding said machine clear of said lugs, said lugs cradling the machine when said plate is tilted about an axis at right angles to the direction of disengagement and in a direction opposite the disengaging direction, and anti-buck means including a crank shaft journaled on said plate and having two cranks pivotally connected to the sides of said machine.

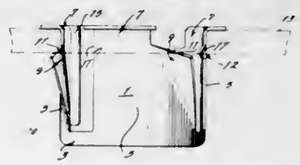
2,610,011
ADJUSTING SUPPORTING DEVICE
Harold H. Lemmerman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 10, 1951, Serial No. 220,309
2 Claims. (Cl. 248—23)

2. An adjustable support comprising a base member having a flat surface containing a plurality of apertures, four bar shaped guide members arranged to enclose a rectangular area and secured to said flat surface with each of said guide members bounding a corresponding side of said area and each having a surface inclined to said flat surface of said base member to form an obtuse angle therewith and with the inclined surfaces of opposite guide members facing each other, a truncated rectangular pyramidal supporting member having a flat base surface slidably engaging said flat surface of said base member with each of its faces opposing a corresponding one of said inclined surfaces, four actuating wedge



members one for each face of said pyramidal member and each having inclined surfaces mating with and engaging a face of said pyramidal member and an inclined surface of the corresponding guide member, individual threaded dowels secured to said wedges and extending through said apertures and splined nuts threaded on said dowels to provide a selective application of forces to said actuating members in a direction normal to said flat base surface to slide said pyramidal member in a selected direction along said flat base surface and to secure said pyramidal member in a desired location thereon.

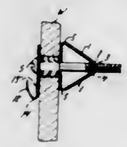
2,610,012
FASTENING DEVICE
Donald Mackey, Haddon Heights, and Angelo G. Lazzery, Oaklyn, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 30, 1949, Serial No. 102,204
5 Claims. (Cl. 248—27)



1. A fastening device for attaching an article to a support having an opening therein and being insertable into said opening, said device comprising a hollow body having a base provided with an aperture, and a plurality of circumferentially distributed, spaced, finger-like members extending from said base, each of said finger-like members terminating in part in an outwardly extending flange adapted to engage one surface of said support and in part in an outwardly directed tongue element adjacent to and inclined away from said flange and adapted to engage the opposite surface of said support, said flanges and said tongue elements cooperating with each other to secure said device to said support.

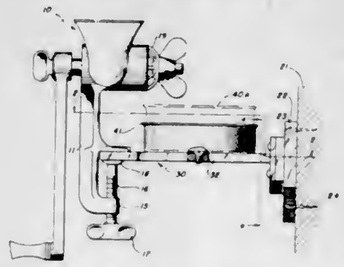
2,610,013
WALL PLUG
Marshall D. Gibson, Webster Groves, Mo.
Application January 13, 1949, Serial No. 70,647
1 Claim. (Cl. 248—225)

In a U-shaped wall plug having a longitudinal member bent intermediate its ends to form expansion strips adapted for entry in a wall opening, a sleeve surrounding said expansion strips near but spaced from their free ends, said free ends being bent outwardly at right angles to said sleeve and against the outer face of the wall, the expansion strips being weakened at predetermined points so that they will bulge outwardly against the under face of the wall when expanding pressure is applied to the intermediate bent portion of said longitudinal member, and a screw for applying said pressure positioned between longitudinal sections of said longitudinal member and threaded in said intermediate bent



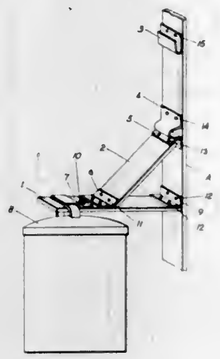
portion, the improvement comprising means for preventing turning of said longitudinal member when said screw is turned, said means comprising an apertured washer positioned between the head of the screw and the outwardly bent portions of said longitudinal member, said washer having a central embossed portion and a depending lug formed integral therewith, said embossed portion enclosing and interlocking with the outwardly bent portions of the longitudinal member, said lug having a weakened section to permit ready severance of the lug at the weakened section.

2,610,014
SUPPORT
Richard D. Ananson, Stirling, N. J., assignor, by mesne assignments, to Harry Tashjian, Paterson, N. J.; John Begian and Peter Cohn, executors of said Harry Tashjian, deceased
Application November 20, 1946, Serial No. 710,966
1 Claim. (Cl. 248—226)



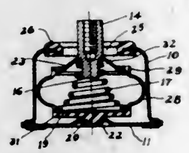
A rigid frame, a clamp formed thereon comprising a pair of spaced arms projecting laterally from one side of the frame, said arms having flat under surfaces lying in a common plane, an internally threaded boss below and between said arms near the junction of said arms with the frame with an externally threaded shank in said boss parallel with the part of the frame from which the arms project, a bracket comprising an arm having a substantially flat enlarged upper surface near its outer end receiving the arms of the clamp, a centrally disposed upstanding lug, shaped to fit the space between the arms of the clamp, and having a substantially flat widened flange at its inner end, at right angles to said flat enlarged surface near its outer end combined with a wall socket having a pocket formed therein adapted to receive and hold the flange at the inner end of said bracket.

2,610,015
GARBAGE CAN COVER HOLDER OR HANDLE
Erich H. Feierabend, North Royalton, Ohio
Application May 14, 1949, Serial No. 93,252
2 Claims. (Cl. 248—229)



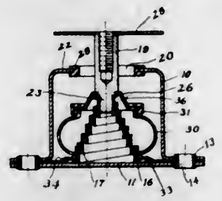
1. A device of the class described, comprising an upright support, an arm member having its inner end hinged to a lower portion of said upright support and adapted to extend outwardly at a right angle to said support, adjustable clamping means secured to the upper surface of the arm member near its outer end, said clamping means being adapted to receive and hold the hand hold of a garbage can cover, a bracing member hinged to the upper surface of said arm member, and a brace engaging element projecting from said support at a locus spaced above the point of hinging of said arm member to said support, the inner end of said bracing member being adapted to engage releasably said projecting element, the bracing member being adapted to hold the arm member in a fixed position extended at right angles to said support to maintain a garbage can and cover in a position supported against tipping or overturning of the can body.

2,610,016
VIBRATION ISOLATOR
Charles E. Crede, Winchester, Mass., assignor to The Barry Corporation, a corporation of Massachusetts
Application May 19, 1948, Serial No. 27,921
7 Claims. (Cl. 248—358)



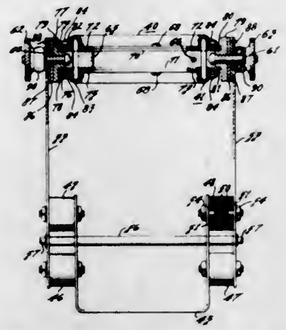
1. In a vibration isolator, a load carrying resilient element, a base for supporting said resilient element, damping means comprising an air space contained within an enclosure made at least partially of resilient material, said enclosure being provided with a relatively small aperture and, means to support said base while permitting tipping thereof.

2,610,017
VIBRATION ISOLATOR
Frank Lambert, Jr., Lexington, and Charles E. Crede, Winchester, Mass., assignors to The Barry Corporation, a corporation of Massachusetts
Application May 19, 1948, Serial No. 27,948
3 Claims. (Cl. 248—358)



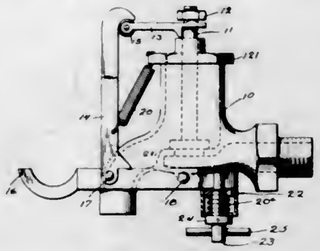
1. A vibration isolator comprising a main resilient member for carrying the load and an enclosure member for said main resilient member forming a chamber about it, said enclosure member having a resilient side wall which is symmetrical with respect to the vertical axis of the main resilient member and which is spaced outwardly a substantial distance from the main resilient member throughout substantially its entire length, said enclosure member being substantially impervious to air except for a relatively small aperture, whereby air is caused to flow through said aperture upon deflection of said main resilient member and thereby causes damping to prevent excessive excursion of the mounted equipment without frictional engagement between said outwardly spaced side wall of the enclosure member and the main resilient member.

2,610,018
MICROPHONE MOUNT
Michael Rettinger, Encino, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application June 17, 1948, Serial No. 33,493
5 Claims. (Cl. 248—358)



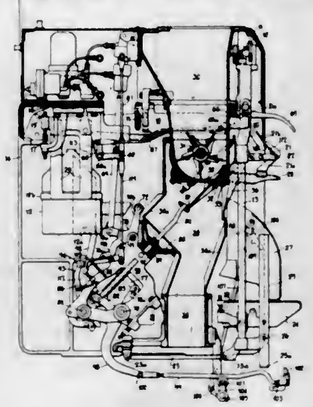
3. A vibration mount comprising a yoke having a pair of parallel members, a second pair of parallel members, a plurality of resilient elements connecting said parallel members, said elements being in two pairs, each pair having their axes in alignment, a rod interconnecting all of said parallel members intermediate said pairs of resilient elements and having its axis parallel with the axes of said elements, resilient means mounted on the ends of said second pair of parallel members for supporting an object, and means for supporting said second pair of parallel members.

2,610,019
AUTOMATIC FAUCET
Herbert W. Beall, Sumter, S. C.
Application July 19, 1946, Serial No. 684,917
2 Claims. (Cl. 249—58)



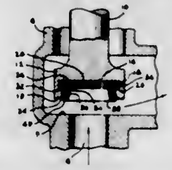
2. An automatic faucet comprising a valve spring-pressed toward closed position, a lever having means for supporting a container in position to receive material from said faucet, a second lever having an arm for opening said valve, an upstanding detent pivotally mounted on the first-mentioned lever, the upper end of said detent being hooked to engage the free end of the first lever, a spring biasing said detent toward engaging position, a shoulder on the detent for engaging the first-named lever to limit the movement of the bar by said spring, a housing on the arm of the first-named lever remote from the container supporting means, a stop for the lever in said housing, a compression spring supporting said stop, and means for adjusting the compression of said spring.

2,610,020
BAG WEIGHING AND FILLING MACHINE
William R. Peterson, Oswego, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application August 17, 1946, Serial No. 691,323
15 Claims. (Cl. 249—60)



1. In apparatus of the class described, a weighing device, a spout mounted on said weighing device, a bag saddle for holding a bag in filling relation with said spout, a gate for governing a flow of material through said spout, a fluid actuatable power cylinder having a piston operable to perform a power stroke divided into a first part and a second part, manually operable means for initiating the first part of said stroke, an operative interconnection between said gate and said piston for opening said gate in response to the first part of the power stroke means responsive to weighing movement of said weighing device for closing said gate, a bag discharge device responsive to the second part of the power stroke of the piston for discharging said bag, and a governor for controlling a flow of fluid to said power cylinder for controlling the duration and speed of the second part of the power stroke thereof whereby a predeterminable time interval is interposed between the closing of said gate and the discharge of the bag.

2,610,021
VALVE CONSTRUCTION
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application April 21, 1949, Serial No. 88,877
3 Claims. (Cl. 251—27)

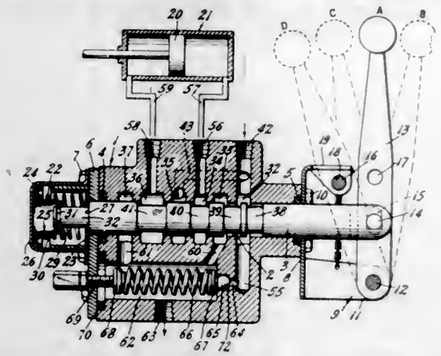


1. In a sealing device, the combination of a body member having means providing a passageway for the flow of liquid therethrough, valve means for controlling the flow of liquid through said passageway comprising a longitudinally compressible resilient sealing element of the self-sealing type and a substantially flat radial valve seat relatively movable with respect to each other into cooperative sealing relation, said sealing element comprising a base portion and an annular portion having inner and outer cylindrical faces extending therefrom to provide a sealing end adapted to have sealing engagement with said valve seat, said sealing end and a face of said annular portion being relieved for substantially the entire radial thickness of said annular portion to provide a relatively sharp corner at the other cylindrical face of said annular portion, said corner being disposed on the side of said sealing element opposite to the side from which liquid is flowing through said passageway, rigid supporting means including a cylindrical wall for engaging substantially the entire cylindrical face of said annular portion having the sharp corner to support said annular portion against deflection in the direction of said supporting means, said corner on said sealing element providing initial sealing contact with said seat substantially in line with said cylindrical supporting wall, and a substantially flat abutment surface forming a circular edge with said cylindrical wall disposed adjacent said relatively sharp corner for contacting said valve seat to limit the longitudinal compression of said sealing element in its cooperative seating relation with said valve seat.

2,610,022
CONTROL VALVE WITH FREE POSITION
Alvin A. Meddock, North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 26, 1947, Serial No. 770,643
1 Claim. (Cl. 251—76)

A control valve for controlling fluid flow to and from opposite ends of a hydraulic motor cylinder, said valve comprising: a valve chamber having consecutively, from one end to the

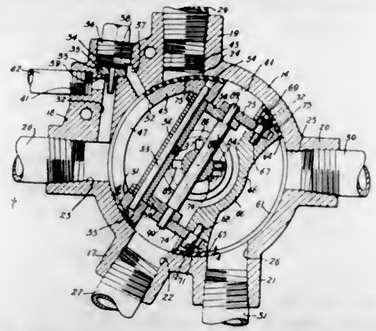
other thereof, a first supply port, a first return port, a first cylinder port, a second supply port, a second cylinder port, a second return port; a valve element slideable in said valve chamber consecutively in one direction from a first position near said one end of said valve chamber through second and third positions to a fourth position adjacent the other end of said valve chamber, said valve element comprising consecutively from said one end to the other, second, third, fourth and fifth lands defining therebetween recesses of such longitudinal dimensions and spacings relative to said ports in said valve chamber that: in said first position of the valve element said third recess connects said one cylinder port to said first return port, and said



fourth recess connects said other cylinder port to said second supply port; in said second position of the valve element said second recess connects said first supply port with said first return port, said third and fourth lands block said first cylinder port, and said fourth and fifth lands block said second cylinder port; in said third position of the valve element said third recess connects said one cylinder port with said second supply port, and said fourth recess connects said other cylinder port with said second return port; and in said fourth position of said valve element said first recess connects said first supply port with said first return port, said second recess connects said first return port with said one cylinder port, and said fourth recess connects said other cylinder port with said second return port.

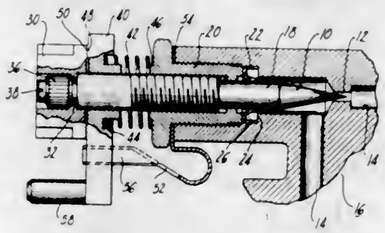
2,610,023
VALVE STRUCTURE
Fred W. Whitlock, Rockford, Ill., assignor to Automatic Pump & Softener Corporation, Rockford, Ill., a corporation of Illinois
Application October 7, 1946, Serial No. 701,667
13 Claims. (Cl. 251—102)

1. The combination in a multiway valve of a valve case including a body having side walls defining a valve chamber, said body having a plurality of annularly spaced ports opening into the chamber, a valve core disposed in said chamber comprising at least two core sections adapted to seat against said side walls, each of said sections formed with a passage positioned to communicate with preselected ones of the body ports for the transfer of fluid between said body ports through said core passages in simultaneous segregated flows when the core is seated against the side walls, an operating shaft for said core, means in said chamber for moving said core sections toward each other and away from the body side walls toward an unseated position in response to movement of the shaft longitudinally in one direction and for forcing the core sections to a seated position against the side walls in response to movement of the shaft longitudinally in the opposite direction, and means outside the cham-



ber for moving the shaft longitudinally to unseat and seat the core and for rotating the shaft when the core is unseated to rotate the core between a plurality of operating positions.

2,610,024
FUEL METERING JET ADJUSTMENT
Emil O. Wirth and Frederik Barfod, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 9, 1947, Serial No. 747,113
6 Claims. (Cl. 251—164)

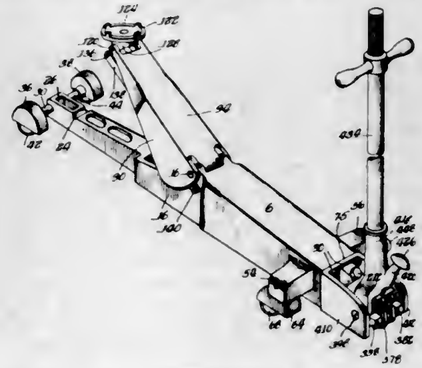


1. A fluid control for an orifice in a device, comprising a needle valve for said orifice, a stem for said valve adapted to be threadedly received in a tapped member of said device, a knob mounted on the end of said stem opposite said valve and adapted to rotate therewith, a lever rotatably mounted on said stem between said member and said knob and adapted to move axially on said stem, means on said lever and said knob to prevent relative movement therebetween when in contact with one another, a spring for urging said lever and knob into contact, a plurality of slots in the periphery of said lever, and a yieldable latching means adapted to seat in said slots and prevent accidental movement of said lever and said knob.

2,610,025
HYDRAULIC JACK
Joseph J. Mueller, St. Joseph, Mich., assignor to Auto Specialties Manufacturing Company, St. Joseph, Mich., a corporation of Michigan
Application January 4, 1946, Serial No. 639,015
6 Claims. (Cl. 254—2)

2. An hydraulic jack comprising a base or chassis, forward and rearward pairs of wheels mounted on said chassis, a lifting lever pivotally mounted on said chassis and carrying a load support, said lifting lever having a power arm

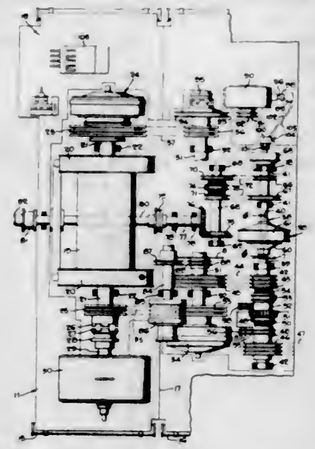
depending within said chassis, the rear end of said chassis having an end opening provided with fastening means apertures adjacently disposed in spaced relation around said opening and a power unit comprising a substantially vertical plate having normally projecting from the face thereof an outwardly projecting ram cylinder and surrounding reservoir, there being a piston longitudinally slidable in said ram cylinder, said plate having extending in the opposite directions at right angles thereto and in spaced relation on opposite sides of the ram cylinder, parallel vertical plates disposed in spaced relation whereby when said first mentioned vertical plate is bolted to the rear end of said chassis by means of fastening members passing through the spaced openings surrounding said main opening of the chassis the power unit is bolted in position with the end of the ram of the power unit confronting the depending end of the load lifting lever, said power unit including a pair of spaced pump cyl-



inders formed in spaced bores in that end of the power unit that lies between the parallel spaced vertical plates and said vertical end plate, and a handle member having a yoked bottom portion pivotally mounted in the opposed vertical plates of said power unit, said handle including depending arm portions having pivotal connections with the outer ends of each of the pistons reciprocable in said pump cylinders, the body of the power unit between said pump cylinders being formed with a pressure relief valve bore communicating with the ram cylinder and a turnable pressure relief valve mounted in said pressure relief valve bore, and said bore and two pump cylinders being disposed in a common horizontal plane between said spaced parallel vertical plates, and universal connections between said turnable pressure release valve and said handle, one of said universal connections lying in the pivotal axis of said handle, and turnable actuating connections carried by said handle for turning said pressure relief valve.

2,610,026
ROTARY DRILLING RIG
John B. Picard, Los Angeles, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 12, 1949, Serial No. 86,875
9 Claims. (Cl. 254—187)

1. In a rotary drilling rig, the combination of a drawworks having a spooling drum, a line shaft, power transmission connections including a releasable clutch whereby the line shaft may drive the drum, a divided jack shaft assembly including a pair of jack shaft sections rotatably mounted in axial alignment, a clutch operatively connecting the jack shaft sections for rotation as a unit, transmission connections whereby one of the jack shaft sections may drive the line shaft, means whereby said jack shaft section may be



driven from a source of power, means whereby the second jack shaft section may drive a driven mechanism, a speed reduction unit, releasable means for connecting said unit to the line shaft, and means for driving the speed reduction unit from the second jack shaft section.

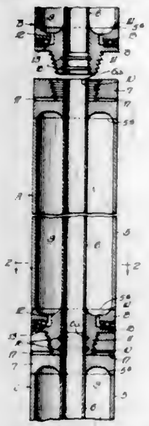
2,610,027
SPLIT KNOCKER-HEAD JAR AND SAFETY UNIT
Kenneth E. Waggener, Brea, Calif.
Application August 6, 1949, Serial No. 108,893
4 Claims. (Cl. 255—27)



1. A combined up-stroke jar and safety joint unit comprising a mandrel having a peripheral flange circumferentially split to form longitudinal slots from top to bottom and constituting an anvil, and a housing rotative on the mandrel and having an internal hammer flange split complementally to the said anvil flange to be passed along each other for attachment or detachment and facilitate assembly or disassembly of the housing and the mandrel, and including bore face keys fixed on the housing and in alinement with and below parts of the hammer flange, and

ribs fixed on the mandrel and forming guides for the longitudinal shift of the housing keys and the hammer flange toward or from the mandrel flange; the ribs having guide passageways for withdrawal of the keys by and with the housing and said hammer flange between said mandrel slots; the anvil striking hammer flange parts being wider than the said alined keys to give long wear life.

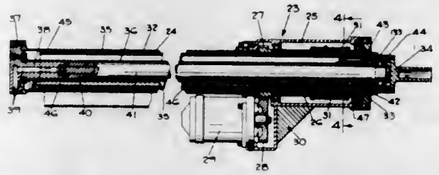
2,610,028
WELL DRILLING PIPE
James E. Smith, Pasadena, Tex.
Application October 25, 1947, Serial No. 782,129
3 Claims. (Cl. 255—28)



1. A well drilling pipe composed of cylindrical units of prearranged length adapted to be successively screwed end to end, each unit comprising a fluid conveying pipe extending from end to end, an outer shell surrounding and spaced from the fluid conveying pipe, and end wall members intimately secured to both ends of said pipe and said shell whereby the latter are united in spaced relation and an encircling air chamber provided extending from end to end, one end wall member on its outer end face having an internally threaded socket about the end of the fluid conveying pipe while the other end wall member has an externally threaded boss, correlated to said socket, disposed beyond the end of the fluid conveying pipe a distance corresponding to the depth of the socket at the first mentioned end and adapted to screw into the threaded socket in the end of the adjacent unit and thereby bring the socket surrounded end of the pipe of the succeeding unit into abutting relation with the pipe of the preceding unit; a self-closing valve controlled port in one of said end wall members leading from the wall exterior to said chamber whereby a pressure medium may be introduced into said chamber; and an automatically controlled vent port in said end wall member leading from said chamber to the unit exterior whereby excess pressure in said chamber may automatically vent to atmosphere.

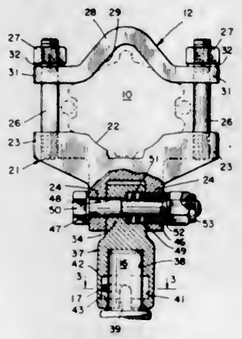
2,610,029
DRILL FEED MECHANISM WITH RECIPROCATING NONROTATING FEED CYLINDER
Sterling C. Moon, Worthington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application September 9, 1950, Serial No. 184,017
4 Claims. (Cl. 255—47)

1. A drill including a housing adapted to be held in fixed position during operation of the drill, an auger tube mounted for both rotation and rectilinear axial feeding motion in reverse directions relative to said housing and telescoping thereinto, a drill chuck attached to said auger tube, a feed cylinder rigidly attached to said housing and positioned inside it, said auger tube being mounted to reciprocate axially outside said feed cylinder and axially inside said housing, an operating piston reciprocable within said feed cylinder, a piston rod attached to said piston adjacent one end of said piston rod, bearing means attaching the other end of said piston rod to said auger tube to impart rectilinear motion of said piston and piston rod to said auger tube



while said auger tube is free to rotate relative to said piston and piston rod which are essentially non-rotary during operation of said drill, means for delivering fluid pressure to opposite ends of said piston to produce selective reverse rectilinear movement thereof, means for supporting and rotating said auger tube including a cylinder within said housing and surrounding said auger tube, bearing means supporting said cylinder within said housing for rotary motion, means slidably interconnecting said cylinder and auger tube whereby the latter is driven rotationally by the former, gear means on said cylinder, a motor carried by said housing, and a gear driven by said motor for driving said gear on said cylinder.

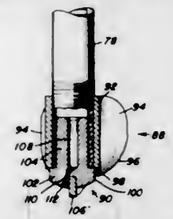
2,610,030
DRILL CRADLE
Hilmer A. Gillerstrom, Arcadia, Calif., assignor to Independent Pneumatic Tool Co., Aurora, Ill., a corporation of Delaware
Application October 29, 1949, Serial No. 124,281
1 Claim. (Cl. 255—51)



A cradle unit adapted to support a drill for angular adjustment upon the upper end of a supporting leg, said unit comprising a cradle body formed in its upper surface with a drill seat, a pair of threaded studs extended upwardly from said body and from opposite sides of said seat, a clamp plate extended between said studs and overlying said seat of said cradle body, a pair of threaded nuts threadedly seated upon the upper ends of said studs and adapted to force said clamp plate toward the seat of said cradle body to secure a drill fixedly therebetween, a

pair of spaced parallel ears extended downwardly from the underside of said cradle body, a socket member having a downwardly opening seat to receive a post at the upper end of a supporting leg and including an upper portion extended between said ears, said upper portion of said socket member being bored and counterbored, said ears being formed with bores aligned with the bore and counterbore in said socket member, the bore in the ear adjacent the counterbore in said socket member being of the size of said counterbore and the bore in the ear adjacent the bore in said socket member being of the size of said bore, a headed bolt extended through the aligned bores and counterbores of said socket member and said ears with its threaded end projecting beyond the ear adjacent the counterbore in said socket member, said bolt having a body rotatably seating in the bore in said socket member and in the ear adjacent said bore, a resilient member encircling said bolt within said counterbore in said socket member, a sleeve concentric to said bolt abutting said resilient member and extended outwardly through the ear adjacent said counterbore, and a nut threaded on the end of said bolt abutting said sleeve and adapted to force said sleeve against said spring to compress the latter to enable it to force said socket member against the ear adjacent the headed end of said bolt to provide a frictional contact which may be varied by tightening or loosening said nut and for the purpose of controlling the resistance to relative angular adjustment between said socket member and said cradle unit.

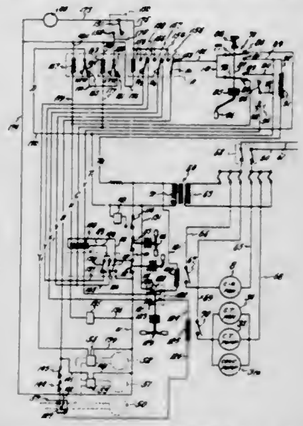
2,610,031
HYDRAULIC ROTARY DRILL
John A. Bradley, Santa Ana, Calif.
Application January 12, 1948, Serial No. 1,730
1 Claim. (Cl. 255—61)



In a combination hydraulic jet and rotary drill, a hollow drill head rigidly secured to a drill rod, cutting blades on said head, and a plug removably secured in said head, said plug having a non-axially disposed channel extending therethrough and communicating with the interior of said drill rod, said blades being inclined to the axis of the drill head, and said plug having a portion thereof with flat faces engageable by said blades so that said plug is rotated, and a cutting fin on the lower end of said plug.

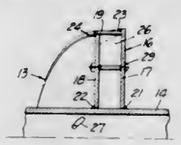
2,610,032
AIR CONDITIONING
Harry C. Shagaloff, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application February 11, 1949, Serial No. 75,826
14 Claims. (Cl. 257—3)

1. In a heat operated air conditioning apparatus, a source of heat, heat exchange means, control means for adjusting said apparatus for operation by heat from said source to supply either a heating medium or a cooling medium to said heat exchange means, a humidistat in said control means for adjusting said apparatus to supply both a cooling medium and heating medium to said heat exchange means simultaneously to dehumidify the air by cooling it below its dew



point and heat the dehumidified air, and a differential thermostat in the control means responsive to a condition affected by the heat exchange means and operable at upper and lower temperature limits to render the humidistat inoperative whereby to prevent overheating or undercooling of the air being conditioned.

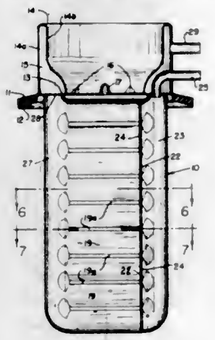
2,610,033
HEAT EXCHANGE SCREW CONVEYER
Carl A. Rietz, San Francisco, Calif., assignor to Rietz Manufacturing Co., San Francisco, Calif., a corporation of California
Application October 22, 1946, Serial No. 704,891
3 Claims. (Cl. 257—101)



1. A heat transfer screw comprising a tubular shaft and a helicoidal flight carried by the shaft, said flight comprising a wall formed helicoidal and having its inner edge attached to the tubular shaft by a weld connection, the outer edge of said wall forming the periphery of the screw, one face of said wall serving to engage and press against the material being handled, and two additional walls attached to the other face of said first named wall, one of said additional walls being helicoidal and being in equidistant spaced relationship with said first named wall with its inner periphery attached to said shaft by a weld connection, the outer edge of said last named wall being formed to a diameter substantially less than the diameter of the first named wall, a third wall in the form of a continuous band attached by weld connections to the first two mentioned walls and extending between the outer edge of the second named wall and that face of the first named wall which is opposite to the face which engages and presses upon the material, and stay members extending between said first two walls intermediate their inner and outer edges, all of said walls serving to define a closed

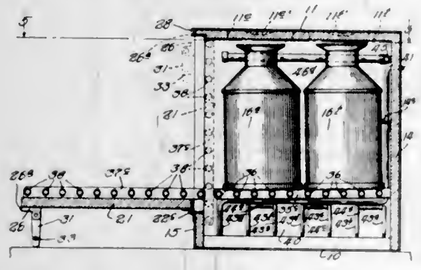
space for receiving a heat transfer fluid, said walls when viewed in section on a section plane coincident with the axis of the shaft being disposed whereby the first and second walls are parallel, and the third wall is at right angles to the first and second walls and has its outer surface coincident with a cylinder.

2,610,034
MILK COOLING ATTACHMENT FOR MILKING MACHINES
Elmer E. Lundvall, Weld County, Ralph W. Becker, Arapahoe County, and Conrad Eckstein, Jefferson County, Colo., assignors to Instant Milk Cooling Company, Inc., Greeley, Colo., a corporation of Colorado
Application August 22, 1949, Serial No. 111,662
13 Claims. (Cl. 257—187)



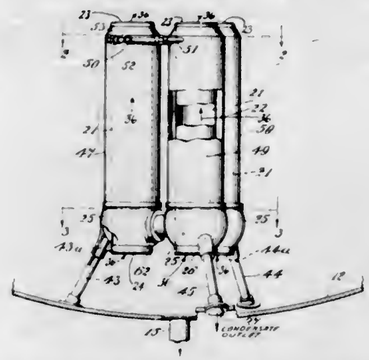
1. In apparatus of the class described, a milk receiver, a milking head provided with milk emitting means and suction connection, a cooling unit including a lid covering said receiver with a fluidtight fit, a reservoir carried by and above said lid, having fluid connection with the receiver, and adapted to receive milk from said head and covered by said milking head with a fluidtight fit, whereby to maintain subatmospheric pressure within the receiver and the reservoir, a cooling element carried by and beneath said lid, and positioned to receive milk from said reservoir, and a conduit interconnecting the reservoir and receiver for equalizing the subatmospheric pressures therein.

2,610,035
MILK COOLER
Otto H. Wennlund, Geneva, Ill.
Application April 15, 1949, Serial No. 87,752
1 Claim. (Cl. 257—189)



In a cabinet for cooling milk cans and having a tank in the bottom thereof for a cooling liquid and a plurality of can-supporting rollers, means for cooling a can comprising a pair of pipes extending horizontally adjacent the neck of said can on opposite sides thereof, said pipes each having a plurality of outlets directed horizontally but at slightly different angles from said pipe and toward said can for spraying cooling liquid uniformly over a substantial area of the surface of said can.

2,610,036
HEATER FOR WORT KETTLES
William Heller, Packanack Lake, N. J., assignor to Schock, Gusmer & Co. Inc., Hoboken, N. J., a corporation of New Jersey
Application February 17, 1950, Serial No. 144,638
1 Claim. (Cl. 257—197)

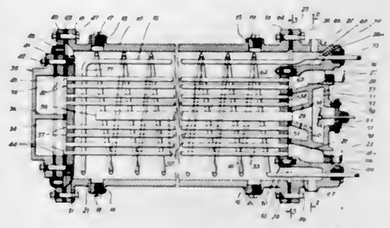


In a wort kettle heater unit, the combination of a plurality of heaters independently spaced and located wholly beyond the confines of each other, each heater having concentric vertical cylinder walls forming a steam chamber closed at its top and bottom and forming a single casing, with an upper steam receiving end and a lower steam discharging end, a separate steam supply pipe for the incoming steam to the upper end of each of said casings tangentially to the median of said casing and each having an elliptical orifice registering with an elliptical orifice of the casing for providing a spiral flow in said casing passing downwardly to the lower end of each casing, an expanding bulge portion of larger diameter than the diameter of its casing, at the lower end of each casing to receive the steam spirally descending from said casing, means connecting said bulge portions into one common steam chamber, and a steam discharge means for said common steam chamber, whereby all spirally moving steam flowing in said casings, merge in said connected expanded bulge portions forming said common heat chamber, before being discharged.

2,610,037
PREHEATER
Nathan A. Arvins and Abraham A. Arvintz, Brooklyn, N. Y.
Original application November 11, 1944, Serial No. 563,028, now Patent No. 2,530,798, dated November 21, 1950. Divided and this application February 4, 1947, Serial No. 726,420
7 Claims. (Cl. 257—240)

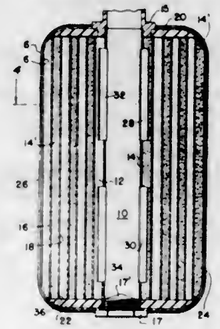
1. In preheaters employing a casing and a circulating tube unit arranged in the casing, a header closing one end of the casing and communicating with the tubes of said unit, said header having integral means forming inlet and outlet passages in communication with the tubes of said unit for circulating a fluid to be heated therethrough, means integral with the header

and in addition to said first named means for placing tubes of said unit in communication, means integral with the header forming a circulating chamber around the passages and last



named means in said header, said chamber having an annular opening exposed to said casing adjacent the periphery of the casing, and means centrally of the header exposing said chamber to said casing.

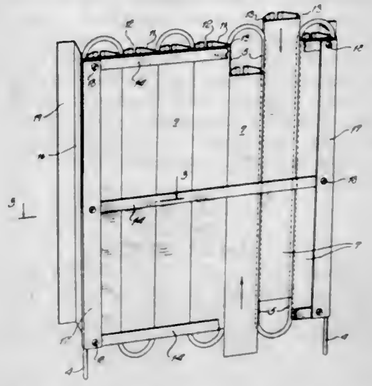
2,610,038
THERMAL RESPIRATOR
Norman E. Phillips, College Park, Md., assignor of one-third to Loyal G. Goff, Bethesda, Md.
Application March 29, 1949, Serial No. 84,093
6 Claims. (Cl. 257—245)



1. In a thermal breathing apparatus comprising a canister having a plurality of spaced spiraled separators providing side walls for adjacent spiraled air channels, the outer ends of which are open to the atmosphere, each alternate channel having intake and outlet valves respectively, the canister being provided with a single passage at its center with which the spiraled channels are connected, relatively small openings formed in the lower portions of the separators for admitting a small portion of a fluid to pass through the separators to the channels, means for conveying the said fluid over the side walls of the channel provided with the inlet valves one end of the canister having an opening leading to the central passage for connecting the central passage with a breathing mask.

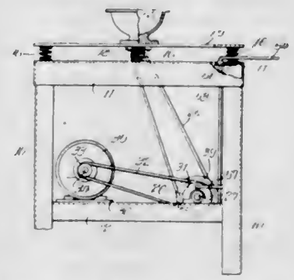
2,610,039
REFRIGERATOR CONDENSER COIL ASSEMBLY
Harold G. Dickman, Pleasant Ridge, Mich.
Application June 30, 1948, Serial No. 36,253
2 Claims. (Cl. 257—262.12)

2. A condenser unit comprising a continuous serpentine tube having a series of spaced straight parallel legs interconnected by bights in the tube and having fitted between said legs and in contact therewith for substantially their entire length a series of nonintegral sheet metal members each comprising a substantially flat base, which, with the bases of adjacent members, forms a flat wall section joining said legs and each member having side walls extending from the sides of the base and substantially perpendicular thereto and adjacent the legs, said walls extending between the legs and beyond the plane thereof to form hollow flues parallel to said legs, the free edges of



said walls extending into proximity to one another but being unconnected whereby said wall members may be flexed on insertion between legs to conform to irregularities in said serpentine tube to establish and maintain contact between each of said walls and the adjacent leg throughout the length of said wall without deforming said tube.

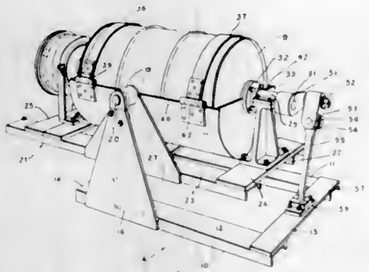
2,610,040
OPERATING MECHANISM FOR VIBRATING TABLES
Roy Emmons, Fort Lauderdale, Fla.
Application July 21, 1951, Serial No. 237,954
3 Claims. (Cl. 259—72)



1. Operating mechanism for an off-balanced vibrating shaft rotatably carried on the under face of a mold supporting table top having a vertically movable resilient mounting on the top of a stand, comprising a jack shaft mounted for rotation on the stand at a relatively low point near the front side thereof, a continuously operated motor having a shaft rotatable about an axis parallel with the jack shaft and mounted on the stand toward the rear side thereof at a relatively low point, a pulley on the motor shaft, a pulley on the off-balanced shaft, two pulleys on the jack shaft, one of said last mentioned pulleys being fixed on the jack shaft to rotate therewith, the other pulley on the jack shaft being mounted for free rotation thereon and for movement axially toward and from the other pulley, coacting clutch faces on the two pulleys on the jack shaft whereby to transmit motion

therebetween when the clutch faces are interengaged, an endless belt connecting the motor shaft pulley and the loose pulley on the jack shaft, a second endless belt connecting the fixed pulley on the jack shaft and the off-balanced shaft pulley to produce cooperation thereof with consequent vibrations of the table top vertically of the stand, the endless belt driving the off-balanced shaft being disposed in a generally vertical direction and with sufficient slack endwise thereof to leave the table top free for vibrations vertically of the stand, and control means providing for axially moving the loose pulley on the jack shaft toward and from the fixed pulley thereon, whereby to engage and disengage the clutch faces to cause operation and non-operation of the jack shaft and the off-balanced table top shaft.

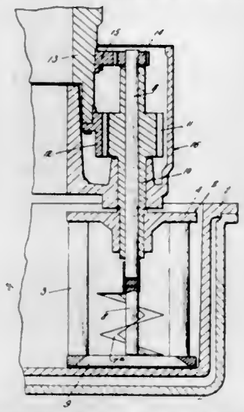
2,610,041
PAINT MIXER
Fred Albert Stahl, St. Paul, Minn., assignor to Arlington Machine Works, Inc., St. Paul, Minn., a corporation of Minnesota
Application December 20, 1946, Serial No. 717,337
3 Claims. (Cl. 259—72)



1. A paint mixer for mixing drums of material comprising a base, a pair of upwardly extending supports thereupon, a pair of aligned pivots supported by said supports, a frame tiltably supported intermediate its ends by said pivots, a pair of bearings mounted upon said frame near opposite ends thereof on opposite sides of the axis of said pivots, a drum support rotatably supported between said bearings, a crank rotatable with said drum support, a connecting rod connecting said crank and said base for tilting said base upon rotation of said drum support, the connection between the rod and base being substantially on a vertical plane through the axes of said bearings, and means for rotating said drum support.

2,610,042
APPARATUS FOR WORKING PASTES
Paul Dryon, Auvelais, Belgium
Application September 30, 1947, Serial No. 776,962
In Belgium October 11, 1946
5 Claims. (Cl. 259—102)

1. An apparatus for treating pasty materials as chocolate pastes, comprising a mixing tank, movable and rotatable stirrers in said tank, said stirrers including vertically disposed arms arranged in spaced relation on a disc shaped support to form a kind of cage with a central hollow space therebetween and individually occupying a sector only of the mixing tank in an out of centre position therein and surrounded on almost their entire periphery by pasty material whereby portions of said pasty material are liable to become confined within said central hollow space, a vertically disposed and movable shaft extending in said central hollow space, devices including members for imparting movements in substantially vertical direction to the said confined material arranged on the said verti-



cal shaft, means for moving the stirrers and vertical shafts along predetermined paths in the tank, means to rotate the stirrers and means to move the said shafts.

2,610,043
ROLLER-TRACK MOUNTING FOR CONCRETE MIXER DRUMS AND THE LIKE
John W. Lendved, Milwaukee, and Charles I. Longenecker, Wauwatosa, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application April 27, 1950, Serial No. 158,406
9 Claims. (Cl. 259—175)

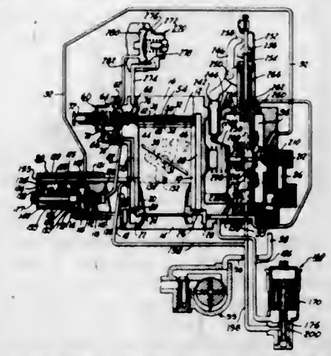


1. The combination with a receptacle having a peripheral wall surrounding an axis about which the receptacle is to be rotated, of a series of seating members disposed in circumferentially spaced relation about said wall and projecting outwardly therefrom, each of said members being rigidly attached to said wall and provided with seating surfaces constituting portions of a true circle concentric with said axis; and a contractile annulus surrounding said series of members and frictionally engaging their respective seating surfaces, whereby to provide a track engageable with a supporting roller to mount the receptacle for rotation about said axis.

2,610,044
CARBURETOR
Emil O. Wirth and Frederik Barfod, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Continuation of abandoned application Serial No. 515,726 December 27, 1943. This application December 18, 1948, Serial No. 66,092
11 Claims. (Cl. 261—37)

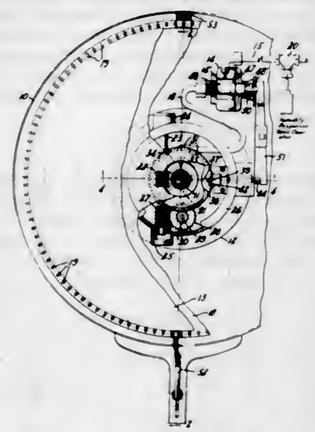
11. A fuel flow reguating means in a fuel system for an engine having an induction passage

with a throttle and venturi therein, comprising a conduit, an orifice in said conduit, a valve for regulating the effective size of said orifice, a throttle actuated means for positively limiting the degree to which said valve will open for engine idling, a means responsive to fuel pressure and Venturi suction for urging said valve in the opening direction, and a spring loaded stop means



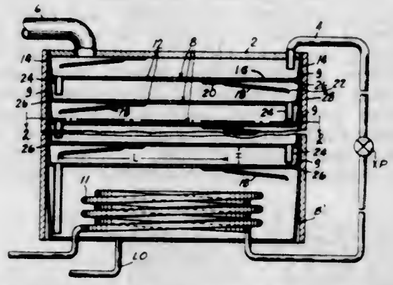
for retaining said valve in said orifice at a fixed position of greater effectve orifice area than at idling throughout the engine cruising range, said stop means being adapted to yield in the valve opening direction when the fuel pressure and Venturi suction reach predetermined relative values to provide an enriched fuel-air mixture for high power output.

2,610,045
SELF-CLEANING HUMIDIFIER
Agnew H. Bahnson, Jr., Winston-Salem, N. C., assignor to Wachovia Bank and Trust Co., Winston-Salem, N. C., a corporation of North Carolina, as trustee
Application March 16, 1951, Serial No. 215,919
17 Claims. (Cl. 261—90)



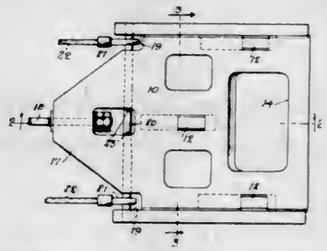
1. A self-cleaning humidifier comprising an impeller for distributing water delivered thereto, a grid ring member disposed adjacent said impeller for atomizing water distributed by said impeller, cleaning means cooperative with said grid ring member, means mounting said grid ring and cleaning means for relative rotation, humidity controlled means effecting periodic delivery of water to said impeller, and means effecting relative rotation between said grid ring and cleaning means in the intervals between successive delivery periods of water to said impeller.

2,610,046
RECTIFYING APPARATUS
Samuel C. Collins, Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 24, 1948, Serial No. 28,870
12 Claims. (Cl. 261—113)



1. In a rectifying column, a plurality of vertically stacked trays, each tray comprising a shallow elongated pan member having a plurality of perforations through the bottom of the pan near one end only, a baffle beneath the pan and secured thereto adjacent the inner edge of the perforated portion and extending outward beyond the outer edge of the perforated portion, and a liquid drain at the end of the pan opposite the perforated end.

2,610,047
DRAGLINE RIPPER
Gus Uotila, Fairbanks, Territory of Alaska, and John W. Sandusky, Seattle, Wash.; said Uotila assignor to said Sandusky
Application June 12, 1947, Serial No. 754,198
2 Claims. (Cl. 262—8)

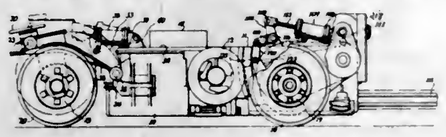


1. A dragline ripper which comprises a heavy frame, large, strong teeth dependent therefrom, to be dragged through bedrock, a transverse scraper rib along the bottom of the frame and along the rear edge thereof, said frame having an opening therethrough immediately in front of the rib, and a pair of said teeth, disposed at the rear of the frame on opposite sides and adjacent said opening.

2,610,048
KERF-CUTTING MACHINE
Frank A. Lindgren, La Grange, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 9, 1946, Serial No. 708,896
6 Claims. (Cl. 262—28)

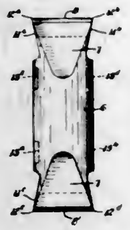
1. In a room and pillar kerf-cutting machine, a main frame, a motor mounted at the forward end of said main frame, a cutter chain carrying cutter bar projecting forwardly of said motor, feeding mechanism disposed rearwardly of said

motor, and means for elevating said machine above the mine floor and supporting it for transportation and for lowering said machine to rest upon the ground including rear steering wheel means and front drive wheels, said rear steering wheel means including a steering wheel supporting frame having mine floor engaging supporting wheels mounted thereon and bodily turnable about an upright axis for steering said machine, a transverse pivotal connection between the forward end of said frame and the rear end of said main frame, and extensible means mounted on top of said main frame and connected between said main frame and said supporting frame for moving said frame about said transverse axis or holding said frame in fixed relation with respect to said main frame, to elevate or lower the



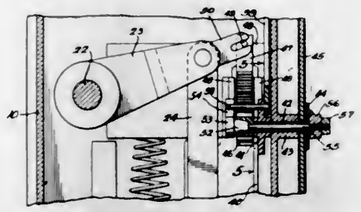
rear end of said main frame with respect to the mine floor and hold the rear end of said main frame in fixed relation with respect to the mine floor, a separate wheel supporting frame transversely pivoted adjacent one of its ends to each side of said motor, said frames having said front drive wheels journaled therein and disposed within the lateral limits of the machine, drive connections from said motor to said front drive wheels, and extensible means connected between said motor and said wheel supporting frames for pivotally moving said frames about said transverse axes or for holding said frames in fixed relation with respect to said motor to elevate or lower the forward end of said machine with respect to the mine floor and to hold the forward end of said machine in fixed relation with respect to the mine floor.

2,610,049
BIT
Albert Charles Elles and Frank L. Fulke, Terre Haute, Ind.
Application October 18, 1949, Serial No. 122,034
2 Claims. (Cl. 262—33)



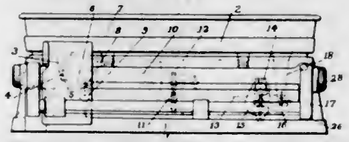
2. A bit for coal cutting chain comprising an elongated tough steel body, cylindrical throughout a medial portion of its length and formed to provide, at an end thereof, a continuous socket located upon an axis perpendicular to the axis of said body, a continuous bar of hard metal bonded into said socket and extending from end to end thereof, each end of said bar being exposed to define a hard metal cutting face backed by the body of said bar, said cutting faces flaring outwardly from the axis of said body, all elements of said bit being symmetrical with respect to said body axis in any plane including the said axis.

2,610,050
LOAD-LIMIT APPARATUS FOR HYDRAULIC ENGINE GOVERNORS
Joseph S. Dale, Rockford, Ill., assignor to Dale Hydraulic Controls, Inc., Rockford, Ill., a corporation of Illinois
Application March 16, 1951, Serial No. 215,923
2 Claims. (Cl. 264—3)



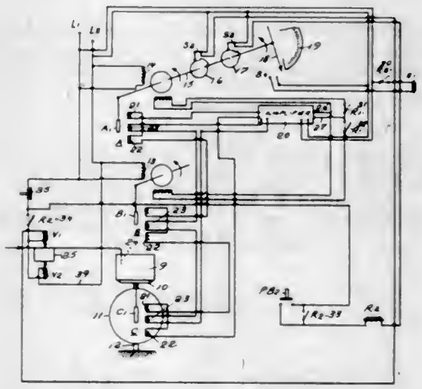
1. In a hydraulic engine governor having a casing, an output shaft, a cylinder, a servo-piston reciprocable therein, a pilot valve, and a conduit circuit adapted to carry hydraulic fluid from the pilot valve to the respective ends of said cylinder, a load indicator comprising a dial mounted for rotation externally of said casing, mechanical coupling means between said output shaft and said indicator dial operative to compel rotation of said indicator responsively to rotation of said output shaft, a shaft mounted for rotation coaxially with said indicator dial, said shaft passing through said dial, a cam carried by the inner end of said shaft, a manually adjustable knob carried by the outer end of said shaft, rotation of said knob permitting the selection within a range of values of the relative angular positions of the indicator dial and the cam, means adapted for releasably locking said cam and said indicator dial in a selected relative position, a cam follower mounted for free rotation coaxially with said indicator dial and said cam shaft, an adjustable valve in said conduit circuit, and mechanical connecting means relating the cam follower to said adjustable valve operative when the cam engages the cam follower to alter pressures in said cylinder and thus to prevent further movement by the servo-piston in the direction tending to move the cam into engagement with the cam follower.

2,610,051
HOUSEHOLD STYLED SCALE OR WEIGHING MACHINE WITH CURSOR INDEX WEIGHTS
Paul Terraillon, Revigny, France
Application March 21, 1947, Serial No. 736,212
In France April 10, 1946
4 Claims. (Cl. 265—27)



1. In a weighing device, in combination, a base; at least one balance lever; a bearing plate embedded in said balance lever; at least two pairs of aligned recesses formed in said bearing plate on opposite faces thereof; a support rising from said base; a recess formed in said support; a metal plate freely supported in said recess and projecting therefrom, the said metal plate having a narrow cross-sectional thickness so as to constitute a knife edge with its projecting portion for supporting said balance lever, the said knife edge being received in one of said pairs of recesses; a weighing pan; feet extending downward from said weighing pan; a recess formed in each of said feet; a metal plate freely located in each of said recesses and projecting therefrom, the said metal plate having a narrow cross-sectional thickness so as to constitute a knife edge with its projecting portion for supporting said weighing pan on said balance lever, the latter knife edge being received in the other of said pairs of recesses.

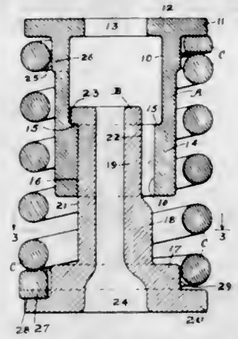
2,610,052
WEIGHING SYSTEM
William D. Macgeorge, Havertown, Pa., assignor to Automatic Temperature Control Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application January 15, 1949, Serial No. 71,073
20 Claims. (Cl. 265—70)



1. A weighing system comprising an electrical network, an elastic load cell deformable as a function of applied load, a weight-receiving scale mounted to deliver a scale load to the load cell, a transmitter having an output-controlling member mounted for actuation as a function of the deformation of the load cell for producing an electrical scale signal of one sense proportional to weight applied to said scale, an indicator, motor means in the network operable through running in angular motion for actuating the indicator, and a receiver in the network operated as a function of indicator movement for producing an electrical indicator signal of opposite sense from and substantially balancing that of the scale signal, and said network having connections for a power source and energizing said motor to actuate the indicator in response to unbalance between the scale and indicator signals, said network comprising means for stopping the motor when the respective signals are in substantial balance to stop the indicator with a setting indicating applied weight on said scale.

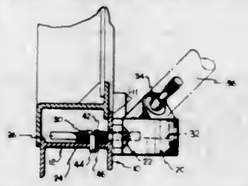
2,610,053
FRICTION SHOCK ABSORBER
Keith Williams, Buffalo, N. Y.
Application November 20, 1948, Serial No. 61,190
5 Claims. (Cl. 267—9)

1. In a friction shock absorbing mechanism, the combination with upper and lower spring follower plates; of a hollow friction casing of cylindrical, interior cross section depending from said upper follower plate; a cylindrical friction post upstanding from said lower follower plate, said post being slidingly telescoped within said casing; and a coil spring surrounding said casing and post and bearing at its top and bottom ends on said follower plates, said spring being distorted and having lateral bearing engagement



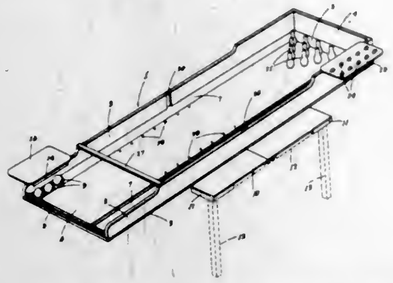
at one end on its inner side with the outer side of the casing at one side of the mechanism, and lateral bearing engagement on its inner side with the outer side of the post at the opposite side of the mechanism.

2,610,054
ROTARY OPERATOR FOR CASEMENT WINDOWS
S. Chester Reynaud, Detroit, Mich.
Application July 21, 1950, Serial No. 175,099
2 Claims. (Cl. 268—119)



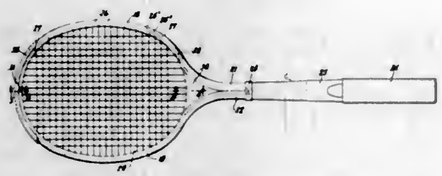
1. In a window regulator, a stationary window frame having a horizontal surface and a vertical surface, a housing having a top horizontal member, a bottom horizontal member, a vertical member joining the horizontal members at one of their edges, with the housing having an open vertical side between the unjoined edges of the horizontal members, horizontal screws clamping the housing against the vertical surface of the frame with its open side against such vertical surface, said frame having an opening in its vertical surface horizontally aligning with the open side of the housing, said housing having a horizontal extension formed as a distinct extension of one of the horizontal housing members and overlying the horizontal surface of the frame when the housing open side is against the vertical surface of the frame, a regulator arm having a hub vertically aligned with said extension and said horizontal surface of the frame, and a vertical pin passing through said hub and extension and interlocking into said frame horizontal surface and thus pivotally mounting said arm at its hub to said frame horizontal surface and also securing said extension to said frame horizontal surface, and an operator in said housing and journalled in the vertical member of the housing and operatively connected to said hub for actuating it, said connection being established through the open side of the housing and the opening in the vertical surface of the frame.

2,610,055
PARLOR BOWLING GAME
Charles H. Goodyear, Stockton, Calif.; Helen W. Goodyear, executrix of said Charles H. Goodyear, deceased
Application July 26, 1949, Serial No. 106,820
2 Claims. (Cl. 273—39)



1. A parlor bowling game comprising, with an alley assembly which includes an elongated bottom board having a flat under surface, a platform separate from the board adapted to be supported on a table, and a pin upstanding from the platform substantially centrally of its area, the bottom board resting flatly on said platform and having a pin receiving socket substantially centrally of its area; the platform comprising a pair of sections of substantially equal size in one of which the pin is mounted, and means interlocking the sections together while holding them against relative horizontal separation.

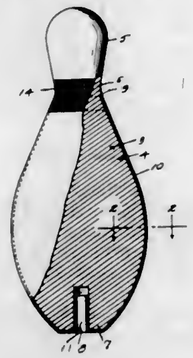
2,610,056
GAME RACKET FRAME
Clarence A. Lovell, Summit, N. J.
Application December 2, 1948, Serial No. 63,089
1 Claim. (Cl. 273—73)



A racket frame of hollow tubular construction, the inner surface of the frame being constructed of a substantially flat strip having a series of string openings therein, string guides connecting adjacent pairs of said string openings, the outer part of the frame being constructed of members substantially U-shaped in cross-section, and the flat strip with its string guides being bent to form a closed loop and secured to the edges of the U-shaped members with said string guides disposed within the tubular frame thus formed.

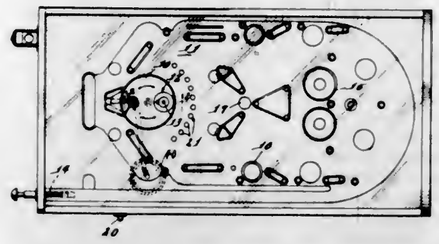
2,610,057
FABRIC-REINFORCED BOWLING PIN
Warren Lincoln Hunt, Aspers, Pa.
Application April 14, 1949, Serial No. 87,536
9 Claims. (Cl. 273—82)

1. A bowling pin comprised of a solid wooden body of slightly substandard diameter, a snugly fitted hose-like fabric sleeve enclosing said body increasing the diameter thereof to standard size, a coating of plasticized material impregnating said sleeve fused therewith and secured to the outer surface of said body, and forming a secure



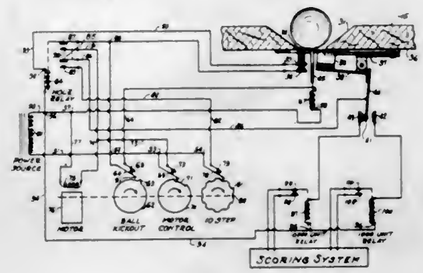
bond therebetween, and an outer lacquer coating covering said pin, the outer surface of said sleeve smoothly merging with the outer surface of said neck.

2,610,058
OSCILLATING BALL REPROJECTOR
Donald E. Hooker, Skokie, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Application September 3, 1948, Serial No. 47,740
3 Claims. (Cl. 273—121)



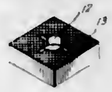
1. In a ball-rolling game device having an inclined playing surface, a disc fitted freely into an opening in said surface and means mounting the disc as aforesaid for oscillatory motion, an electric motor and a crank mechanism between the same and said disc for effecting a sustained oscillation of the disc, a motor circuit for energizing said motor, a depressed ball-receiving seat in said disc and situated eccentrically of the oscillatory axis thereof, an electromagnetic reprojector carried on the underside of said disc and having a kicker arm communicating into said seat for actuation to reproject a ball therefrom, a ball switch communicating into said seat, a player-controlled switch in said game device and mounted adjacent said playing surfaces, and a power circuit including said ball switch and said player switch in series with a power source and said electromagnetic reprojector for operation such that when a ball is lodged in said seat and closes said ball switch, the closing of said player switch at the option of the player will reproject said lodged ball onto said playing surface, said motor being energized by said motor circuit during playing of the game to make it difficult to lodge a ball in the seat and to afford a selective directional reprojection of the lodged ball under control of the said ball and player-controlled switches.

2,610,059
PIN BALL GAME
Jerry C. Koci, Riverside, Ill., assignor to Chicago Coin Machine Co., Chicago, Ill., a corporation of Illinois
Application August 27, 1947, Serial No. 770,808
4 Claims. (Cl. 273—121)



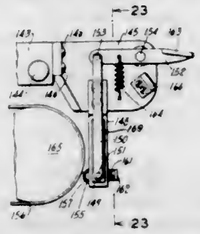
1. In a pin ball game, an electrically-actuated scoring system, said system including scoring means, electro-magnetic actuating means controlled by said scoring means for producing scoring effects upon said system, said scoring means including circuits having mass-responsive switches and magnetic-responsive switches connected therein, said game having a playing panel provided with scoring regions, some scoring regions each having a mass-responsive switch and other scoring regions each having a magnetic-responsive switch, playing balls including at least one ferromagnetic ball and at least one non-magnetic ball, the balls being adapted to range over the playing panel during play, whereby a ferromagnetic ball and a non-magnetic ball, pursuing the same path over the panel, will operate different switches in said scoring regions and result in different playing scores.

2,610,060
MILITARY CAMPAIGN GAME BOARD AND PIECES
William W. Powell, Fort Worth, Tex.
Application March 31, 1950, Serial No. 153,183
3 Claims. (Cl. 273—131)



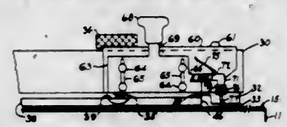
2. In game played on a surface marked with checkered squares, a set of game pieces, each game piece having a flat bottom wall slidable on said surface and having a top wall, said set including a first group having in the top wall thereof apertures of one cross sectional shape and a second group having in the top wall thereof apertures of a cross sectional shape differing from those of the first group, and a plurality of pegs, certain of said pegs having a cross section conforming to the cross section of the recesses in said one group of pieces, certain other of said pegs conforming to the cross section of the recesses of said second group of pieces, distinctive indicia on the ends of said pegs, and additional indicia on the side of said pegs.

2,610,061
DICTATING MACHINE SIGNAL
Albert I. Kegan, Chicago, Ill., assignor to Samuel W. Kipnis, trustee for Judith Kegan, Daniel Kegan, and Franklin Kegan
Application November 27, 1948, Serial No. 62,380
5 Claims. (Cl. 274—1)



1. In sound translating apparatus including means for supporting and driving a recording medium, a carriage movable across said medium, and a recording unit carried by said carriage and including a stylus adapted to generate a sound impressed track in said medium, mechanism for impressing an audible signal made up of discretely spaced surface indentations on said generated sound track for the purpose of alerting a transcriber to subsequently following sound track conditions, said mechanism comprising: a bracket member extending from said carriage, a lever pivoted on said bracket member, spring means resisting deflection of said lever, a first member secured to said bracket member and positioned adjacent a portion of said recording medium, said first member having an elongated slot therein the intermediate portion of which is closer to the surface of said recording medium than the end portions thereof, a second member movable along said slot, means drivably coupling said second member to said lever, a shaft rotatably secured to said second member, a drive wheel and a circular member on said shaft, and a plurality of marking elements spaced on the periphery of said circular member, whereby deflecting said lever moves said drive wheel across said recording medium and turns said circular member, said circular member being spaced from said stylus to cause said marking elements to mark upon said sound track in advance of said portion thereof.

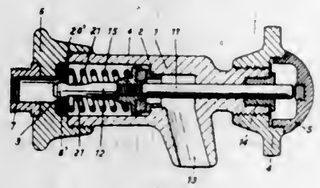
2,610,062
INDEXING SYSTEM
Robert A. Bratton, Columbus, Ohio, assignor, by mesne assignments, to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application September 7, 1949, Serial No. 114,371
1 Claim. (Cl. 274—1)



In a machine for recording or reproducing dictation, in combination with an element upon which the dictation is recorded and having a plurality of indicia appearing on the surface thereof at regularly spaced intervals to form a marking area; a second element responsive to the dictation adapted to engage the surface of the first element; means providing for translatably moving one of the elements relative to

the other element; and means for placing a mark in the marking area on the first element to indicate the width of the surface area upon which recording has been effected on the first element comprising a slidably mounted plate carried by the second element, a pivotally mounted marking member adapted to be raised and lowered with respect to the surface of the first element by movement of said plate, and a cam element carried on said element moving means adapted to engage the plate when the latter is moved in one direction to provide for moving the plate in the opposite direction.

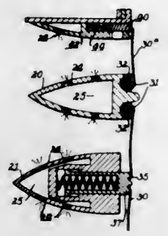
2,610,063
FAUCET
Eugène Faucheux, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland, a corporation of Switzerland
Application October 21, 1946, Serial No. 704,738
In France June 23, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires June 23, 1964
3 Claims. (Cl. 277—42)



1. A valve for liquid pipe lines subjected to pressure comprising, in combination, a casing having an outlet and inlet, an axially movable operating stem therein, a shut-off valve at the outlet end keyed to said stem, a regulating valve at the inlet end keyed to the same stem, an expansion chamber in the casing between the two valves, at least one restricted leak passage in the seat of the valve at the inlet end for preventing vibrations and water hammer when the valve is opened and closed, and the stem of the regulating valve being provided with a longitudinally restricted portion adjacent the inlet end to permit varying the delivery of liquid as a function of the movement of the stem.

2,610,064
ADMISSION VALVE MECHANISM FOR RESONANCE COMBUSTION CHAMBERS
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application February 1, 1947, Serial No. 725,807
2 Claims. (Cl. 277—60)

1. Valve structure for closing a passage comprising an elongated dual supporting member, oppositely-disposed sheet metal valve plates each resiliently secured along one longitudinal edge to said member and having an angularly-disposed flange along its free edge, additional elongated supporting members fixed in parallel spaced relation at each side of said dual-supporting member, an elongated seating bar movably mounted in each of said additional supporting members and each bar being engaged by the angularly-disposed flange of one of said resiliently-mounted valve plates when said plate is in passage-closing position, said seating bar being yieldingly movable when thus engaged by said flange, means being provided to resist such



yielding movement of said bar, and said bar having a longitudinal groove to receive said flange and to thereby prevent relative transverse slipping thereof.

2,610,065
AUTOMATIC CHUCK
Oscar H. Banker, Evanston, Ill.
Application May 10, 1947, Serial No. 747,236
6 Claims. (Cl. 279—23)

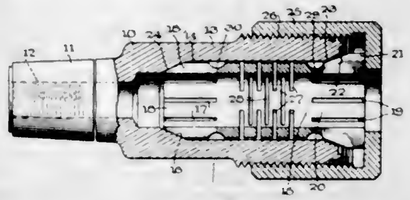


5. In a driving chuck for a tool, a chuck body having an axial bore receivable of a shank of such tool, said bore having a clutch-receiving portion and a more inward portion of less diameter for piloting the tool shank and forming a shoulder between the bore portions, a helical clutch element in the clutch-receiving portion of the bore to axially receive the tool shank, the outer end of the clutch element being anchored for rotation with the chuck body while a more inward portion of such element is reduced in diameter to initially grip the tool shank and an intermediate portion of the element comprises coils of equal internal diameter for receiving the tool shank but being progressively grippable thereon in driving relation pursuant to an initial rotation of the reduced diameter portion with the tool relatively to the chuck body, and the inner end of the clutch element being adjacently to said shoulder for abutment thereagainst to prevent elongation of the element by the tool shank as it is projected therethrough toward the pilot bore portion.

2,610,066
CHUCK
Reginald J. S. Pigott, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application May 22, 1950, Serial No. 163,496
5 Claims. (Cl. 279—51)

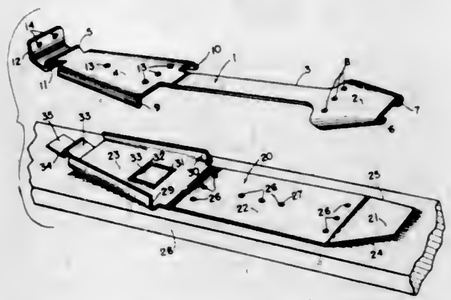
2. In a collet chuck having a tubular body member formed with spaced conical seats within its bore, a unitary work-holding member in the bore, having end jaw portions tapered to fit said seats, and an intermediate portion formed with a series of pairs of lateral slots, each such pair of slots being offset ninety degrees circumferentially from those adjacent

thereto, thereby to define multiple cantilever springs which permit axial compression of said



work-holding member, and means for compressing said work-holding member.

2,610,067
SKI BINDING
Jackson M. Harby, Jr., Seattle, Wash.
Application January 10, 1948, Serial No. 1,542
5 Claims. (Cl. 280—11.35)



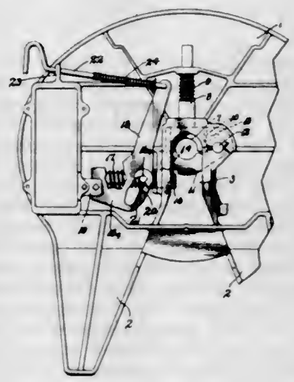
5. A ski binding, comprising: a boot plate and a ski plate, said plates having heel and toe portions, said toe portions interfitting with each other and said heel portions interfitting with each other, a shank joining the toe and heel portions of said ski plate, said toe and heel portions of said ski plate not being directly secured to a ski when mounted thereon, said shank being adapted to be directly secured to such ski, and said ski plate being resiliently constructed whereby undue stress will allow said plates to separate.

2,610,068
SKI BINDING
Ludwig A. Majneri, Grosse Pointe, Mich.
Application February 16, 1948, Serial No. 8,537
2 Claims. (Cl. 280—11.35)



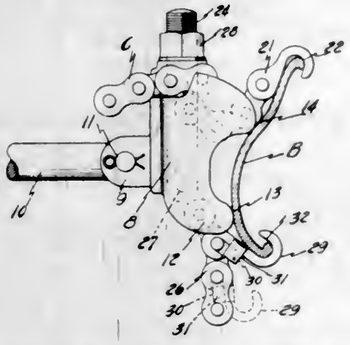
1. A ski binding comprising means for positioning a boot on a ski, means for yieldably clamping the heel portion of the boot on the ski including a coil spring having the opposite end portions respectively anchored to opposite sides of the ski forwardly of the heel portion on the boot and having an intermediate portion adapted to be looped around the back of the heel portion of the boot, a flexible non-resilient strap having the end portions folded to overlie one another and provide a loop through which the spring extends, a pin fixed on the ski in spaced relation to the position normally occupied by the heel of the boot and projecting upwardly from the ski through aligned openings in the free end portions of said strap and a clamping element mounted on the pin and cooperating with said pin to secure the free end portions of the strap in place.

2,610,069
FIFTH WHEEL SIDE RELEASE LOCKING MECHANISM
Henry Ketel, Holland, Mich., assignor to Holland Hitch Company, Holland, Mich., a corporation of Michigan
Application December 27, 1949, Serial No. 135,251
3 Claims. (Cl. 280—33.05)



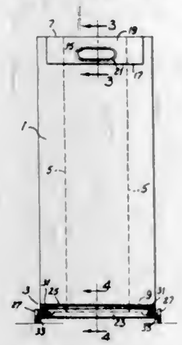
1. In a structure as described, a body member having a pin entrance opening at one side terminating near the central portion of said body member in a slot with a closed end and having parallel sides, a head movably mounted on the body member near the closed end of said slot, a rod extending from said head slidably mounted on the body member, a spring acting on said rod to normally move the head toward and into said slot, said head at its outer side having a pin receiving recess therein, a lever cooperating with said head pivotally mounted at one end on the body member and adapted to be swung across the slot, and having a cooperating recessed inner side to engage a pin, gearing connection between said head and lever for swinging the lever in opposite directions in accordance with the direction of movement of said head, the lever being swung across the slot when the head is moved against said spring, a spring actuated locking dog slidably mounted on said body member, means for retracting said dog including a handle rod having an end adapted for manual engagement located at one side of the body member, means included in said last mentioned means for retaining the dog in retracted position, said dog when in retracted position having an end engageable by the free end of said pin engaging lever to further retract it and automatically free said dog from its retaining means, whereby when the pin engaging lever passes by the end of said dog and into pin engaging position across the slot, the dog is moved into the path of movement of the free end portion of said pin engaging lever to hold it against release until the dog is manually retracted.

2,610,070
TOW BAR
Cletus A. Klein, Caro, Mich.
Application August 14, 1948, Serial No. 44,335
7 Claims. (Cl. 280—33.44)



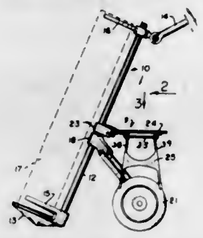
2. In combination with a tow bar, of a coupling head element adapted to be secured to an automobile bumper, said element being formed with a passage in the upper end thereof, a link chain having its one end adjustably accommodated in said passage and formed with a hook on the opposite end for engagement with the upper edge of a bumper, said chain being provided with laterally projecting pins projecting beyond the side walls of the links, seats in the upper face of the head element for releasably accommodating a predetermined pair of pins therein and secure the chain in adjusted position, adjustable means mounted on said head element, a link chain connected on one end thereof, an attaching link on said chain for engagement with the lower edge of the bumper, and means for actuating the adjustable means to apply clamping stress to said chains and firmly secure the head element to said bumper.

2,610,071
WHEELED SHOPPING BAG
Harold C. Davis, Webster Groves, and Robert A. Claridge, Affton, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application October 3, 1949, Serial No. 119,355
6 Claims. (Cl. 280—36)



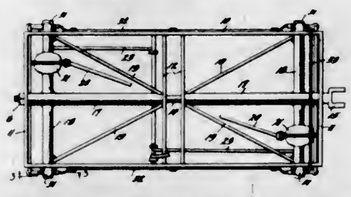
1. The combination of a bag provided with a handle at its mouth and having a tab-like bottom closure, and a wheeled carrier including a clamp comprising a U-shaped channel receiving the tab-like bottom closure and extending approximately the full width of the bag, the sides of the channel being in clamping engagement with the tab-like bottom closure, and wheels, one at each end of the channel outward of the ends of the bottom closure, each wheel being journalled on a member which is fixed in the channel adjacent its bottom and which extends out of the respective end of the channel.

2,610,072
GOLF CART SEAT
Ralph B. Head, Denver, Colo.
Application September 24, 1951, Serial No. 248,001
4 Claims. (Cl. 280—42)



1. A wheel mounted ambulatory golf bag cart having an elongated upwardly ranging frame member supported on two spaced wheels, and in which the lower end of the frame and the wheels rest on a common supporting surface when the cart is not in use, in combination therewith an attachment comprising a seat, means comprising a hinge element attached to the frame and a cooperating hinge element attached to the seat for effecting a tiltable connection of the seat relative to the frame, and a seat supporting leg pivotally connected with the seat in position to engage and rest on the top of one of the wheels when the seat is in operative position, the seat being movable from a substantially horizontal operative position to a position substantially parallel with the frame member, and means for holding the seat in inoperative position.

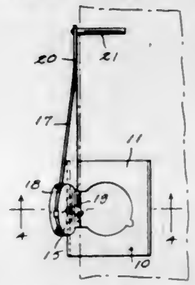
2,610,073
STABILIZER FOR FOUR-WHEELED VEHICLES
Clarence Lilly, Sr., Lonoke, Ark., assignor, by mesne assignments, to Lilly Associates, Inc., Little Rock, Ark., a corporation of Arkansas
Application February 28, 1950, Serial No. 146,779
3 Claims. (Cl. 280—104)



3. In a four-wheeled vehicle, a rigid frame having parallel end members, parallel side members and a pair of central frame braces extending parallel to the end members between the side members, a pair of rigid axle housings extending transversely beneath said frame at the front and rear of said frame, means tiltably connecting said axle housings and frame, said tiltable connection including a draw-bar extending longitudinally of said frame, sleeves revolubly mounted on the end portions of said draw-bar each having one end fixed to the center of a respective axle housing,

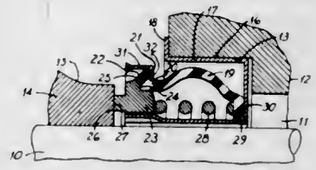
each sleeve having its ends abutting respectively on a said end member and a said frame brace whereby longitudinal movement of the sleeves in the frame is prevented, and radius rods connecting the opposite end of each sleeve with the end portions of respective axle housings, wheel axles in said housings, ground wheels carried at the ends of said axles, and an equalizing device at each side of said frame and connecting the ends of the respective housing ends, said equalizing means including a pair of hydraulic cylinders fixed to said frame on each side of the frame and located above respective ends of the axle housings, pistons in said cylinders, piston rods extending downward from said pistons and having connection with the housing ends, hydraulic piping connecting the cylinders at each of the frame sides, and a hydraulic pipe connecting the cylinders at one end of the frame.

2,610,074
BOOKMARK
Louis G. Meyers, New York, N. Y.
Application August 9, 1951, Serial No. 241,110
1 Claim. (Cl. 281—42)



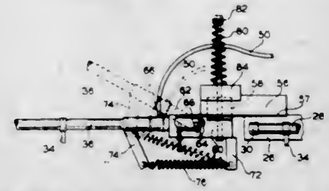
A book mark comprising a resilient clip, a circular plate struck from said clip and extending obtusely therefrom, a lever, a cup-shaped circular housing fixed to one end of said lever, means pivotally securing said housing to said plate, a page holding member extending right angularly from the other end of said lever, a coil spring in said housing secured at one end to said housing and at the other end to said plate for constantly urging said lever downwardly to page holding position, and a stop lug struck from said clip integrally with said plate projecting over said housing for limiting the upward swinging of said lever.

2,610,075
ROTARY MECHANICAL SEAL WITH TELESCOPING PARTS
Paul T. Haake, Chicago, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application January 13, 1950, Serial No. 138,506
2 Claims. (Cl. 286—11)



2. A seal assembly for relatively rotatable members including a shaft member and a housing member surrounding the same, said assembly comprising a ring-like sealing washer adapted to be telescopically received over said shaft member, said washer being formed of a rigid, non-compressible material, and having a forward radially disposed running sealing surface adapted to frictionally bear against a radial surface substantially normal to the shaft and movable with the latter, said washer being formed with an annular recess providing a rearwardly facing radially disposed shoulder and a cylindrical surface rearwardly of said shoulder, the periphery of said washer immediately forwardly of said shoulder being formed with a narrow cylindrical band-like region and having a relief area forwardly of said band-like region of reduced diameter, an elastomeric sealing sleeve having a body portion and an offset tubular portion at the forward end thereof and providing an intermediate connecting wall having a forwardly facing radially disposed shoulder, said offset tubular portion presenting an outer cylindrical surface in the forward region thereof and a rearwardly and inwardly inclined conical surface in the rear regions thereof, means for sealing said body portion to said housing, said sleeve being telescopically received over said sealing washer with the outwardly offset portion surrounding the outer periphery of the washer and with said body portion surrounding said cylindrical surface and with said shoulders in abutting relationship, and a rigid clamping ring telescopically received over said sleeve, said ring having an inner cylindrical surface surrounding said outwardly offset portion of the sleeve and compressing the latter inwardly and against the band-like and relief area of the washer, the extreme forward rim of said clamping ring being flared radially outwardly to facilitate assembly of the washer, sleeve and clamping ring, the thickness of said offset cylindrical portion of said sealing sleeve being greater than the distance between said cylindrical band-like region of the washer and the inner cylindrical surface of said clamping ring whereby upon assembly of the washer, sleeve and ring, a portion of the material of said sleeve is caused to flow into said relief area.

2,610,076
DEVICE FOR SPREADING AGRICULTURAL CHEMICALS
Clark F. Walsh, Nashua, Iowa
Application November 19, 1949, Serial No. 128,301
2 Claims. (Cl. 287—96)



1. In a spray boom, a main support, an auxiliary support, hinge means connecting said supports to provide rotation of the auxiliary support about an axis which is perpendicular to the longitudinal axes of the two supports including a first V-shaped bar rigidly secured to the main support, a second V-shaped bar rigidly secured to the auxiliary support, one of said bars being loosely nested within the other, whereby when axially rotated it moves out of its nested position, a connecting member extending transversely through said bars, and resilient means cooperable between said connecting member and one of said bars for holding said bars in nested relation with each other to resist axial movement.

2,610,077
PENCIL COUPLING
Harold Swanson, Brownhelm Township, Lorain County, Ohio
Application June 24, 1947, Serial No. 756,588
8 Claims. (Cl. 287—114)



1. A pencil coupling for connecting in axial alignment two hexagonal pencils, consisting of, a tubular sleeve having internal stop flutes extending from end to end thereof, two grip plates attached to the ends of said sleeve, said stop flutes providing a means for manual partial rotation of said pencils in said sleeve, said grip plates having inward projecting gripping edges for forming indentations on the hexagonal ridges of said pencils during said rotation, said stop flutes and said grip plates against said indentations providing a means for gripping and holding said pencils together within said coupling.

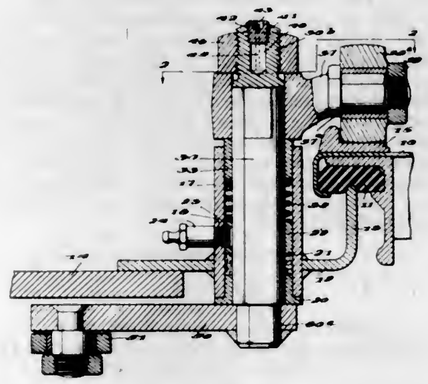
2,610,078
GASKET FOR PIPE JOINTS
Roger E. Risley, Bradford, and Albert J. Whitehill, Butler, Pa., assignors to Dresser Industries, Inc., Cleveland, Ohio, a corporation of Pennsylvania
Application September 21, 1945, Serial No. 617,756
3 Claims. (Cl. 288—11)



3. A gasket for pipe joints comprising a continuous ring of resilient rubber composition, an annular metallic helix of circular cross-section embedded in said composition, said helix having successive turns substantially in contact with one another and having ends abutting one another and a parti-toroidal insert fitting frictionally into the abutting end portions of the helix and having a uniform circular cross-section with a diameter greater than the normal inside cross-sectional diameter of the turns of said helix, said insert extending into each end of the helix a distance of at least three turns, the adjoining end portions of said helix being gripped and resiliently held between said parti-toroidal insert and the surrounding rubber compound to maintain the annular form of said helix without materially restricting circumferential expansion of said gasket at the joint in said helix.

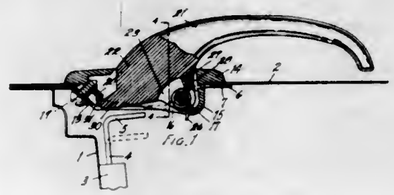
2,610,079
DOG SPINDLE ASSEMBLY
Francis M. Lambert, Narberth, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 7, 1946, Serial No. 652,613
4 Claims. (Cl. 292—196)

1. A latch for maintaining a door member and a door frame member in conjoint relationship, comprising a tubular housing adapted to extend transversely through one of said members, a spindle rotatably mounted within said housing, means for rotating said spindle, latch means slidably mounted on and rotatable with said spindle for engaging the other of said members, means



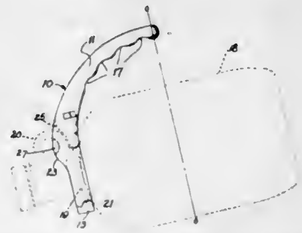
axially adjustable on said spindle for retaining said latch means on said spindle, means for locking said retaining means in any one of a plurality of positions to retain said latch in any one of a plurality of axial positions and resilient means urging said latch means in the direction of said last-mentioned means.

2,610,080
DOOR HANDLE
Gerald V. Jakeway, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application October 31, 1949, Serial No. 124,655
11 Claims. (Cl. 292—336.3)



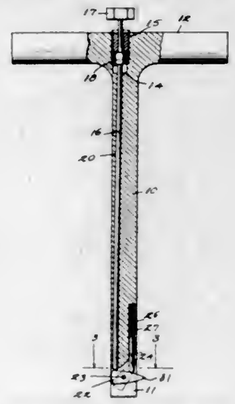
11. In a door handle, the combination of a supporting plate having an opening therein, said supporting plate having rearwardly inclined cams at the side edges of the opening merging into rearwardly facing shoulders, said plate being formed from an integral member having an inwardly bent intermediate portion to provide said cams and shoulders, an escutcheon having an inwardly projecting bracket disposed through said opening in said plate and provided with laterally projecting lugs coacting with said cams and engageable with said shoulders, said shoulders constituting stops therefor, a handle swingably mounted on said escutcheon, a spring acting to bias said handle to retracted position, and a screw adjustably connecting the front end of said supporting plate and said escutcheon disposed in a rearwardly inclined relation, said shoulders being disposed forwardly of said inclined cams whereby tightening of said screw operates first to engage said lugs with said cams and then with said shoulders to limit forward adjustment of said escutcheon.

2,610,081
DISPENSING HOLDER FOR BOTTLES OR THE LIKE
Edwin F. Bushman, Aurora, Ill.
Application July 6, 1948, Serial No. 37,264
4 Claims. (Cl. 294—28)



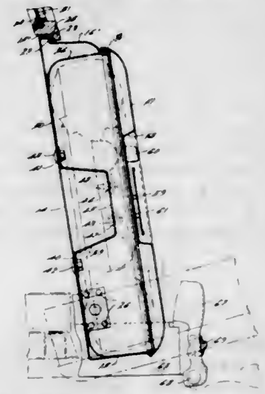
1. In a holder for a bottle or the like having a finger engaging loop, said holder having bottle engaging portions or jaws arranged to be moved toward and away from each other to grip a bottle or the like therebetween or release same therefrom, the improvements comprising handles extending from said jaws and movable toward and away from each other to close and open said jaws, and slots in said handles cooperating when the handles are together to form a socket for embracing part of said finger engaging loop thereby to anchor the holder against rotation on the bottle.

2,610,082
BORED CASTING HANDLING DEVICE
Noel C. Hill, Williamsburg, Ky.
Application March 9, 1951, Serial No. 214,654
2 Claims. (Cl. 294—97)



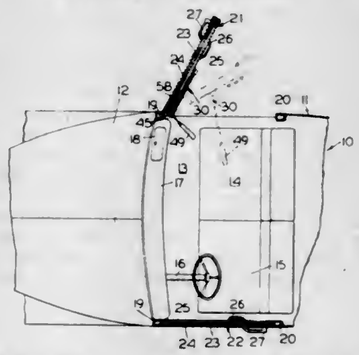
1. In a casting tool a solid cylindrical member including a transverse handle and having a slot at one end thereof and a bore extending longitudinally therethrough, said slot extending angularly upwardly at one end thereof beyond the lower end of said bore, a lug pivotally mounted in said slot, a pointed extremity on said lug, spring means normally biasing said pointed extremity outwardly of said slot, a rod extending through said bore, an operating button at one end of said rod, the other end of said rod normally abutting said lug on the opposite side of its pivot from said pointed extremity whereby pressure on said operating button serves to bias said lug into the upwardly angularly extending portion of said slot to retract the same within said cylindrical member.

2,610,083
VEHICLE DOOR WITH SPARE TIRE COMPARTMENT
Kaufman T. Keller, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 9, 1949, Serial No. 86,567
1 Claim. (Cl. 296—37.2)



A tail gate assembly adapted for pivotal attachment to a vehicle body comprising a substantially planar inner panel, an outer panel spaced from said inner panel and having an outwardly flared portion, said portion having a circular opening therein, a cup-like member of cylindrical configuration secured between said inner and outer panels and defining a chamber for a vehicle spare tire, the open circular end of said cup-like member being secured to said outer panel in registration with said circular opening and thereby rigidifying said outer panel, a bracket secured to said inner panel and extending toward said opening for receiving and positioning the spare tire within said cup-like member, and a cover disposed over said opening and cup-like member and swingably supported on said outer panel.

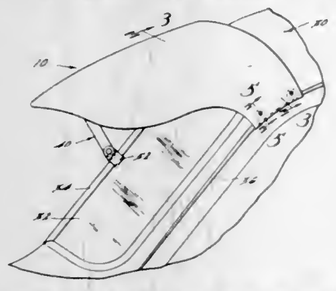
2,610,084
VEHICLE DOOR CLOSING DEVICE
Frank A. Anderson, Chicago, Ill.
Application September 19, 1951, Serial No. 247,249
6 Claims. (Cl. 296—44)



1. A handle device for vehicle doors comprising a bracket adapted to be attached to the inner side of a vehicle door, a first arm pivotally connected to said bracket for swinging movement about a vertical axis, a resilient member connected to said first arm for urging said arm to a normal position substantially in longitudinal

parallel relation with respect to the vehicle door, said first arm being movable from said position to a position wherein said first arm extends laterally inwardly into the vehicle, a second arm pivotally connected to said first arm for pivotal movement about a vertical axis, said second arm being of substantially shorter length than said first arm, said second arm extending normally in a lateral direction with respect to the first arm and inwardly into the vehicle, a gripping member slidably connected to said second arm, said gripping member being adjustable on said second arm to a plurality of positions, and means for locking said gripping member to said second arm, said first and second arms being swingable by an operator into a position wherein both arms extend laterally with respect to said door, and a second resilient member connected to said first and second arms, said resilient members being operable to return said arms to their normal positions upon release of said gripping member by the operator.

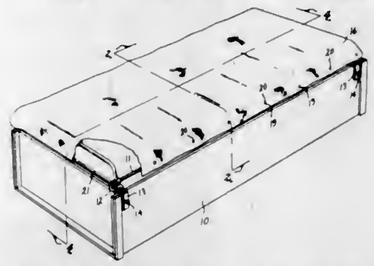
2,610,085
SUN VISOR
Elmer G. Zeeb, Grosse Pointe Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 30, 1948, Serial No. 24,312
3 Claims. (Cl. 296—95)



1. For use with a vehicle characterized by drip molding having inboard and outboard surfaces, a windshield bordered at the sides by the drip molding, and mounting a flexible snap-on sun visor having a resilient body and integral end portions formed with guttered terminals receiving the outboard surfaces of the drip molding and bearing thereon with a spring-like squeezing action; a keeper means, said keeper means comprising pairs of brackets at the respective end portions of the sun visor; each said bracket having a longitudinal body portion attached adjacent said visor terminals in juxtaposed contact therealong, an elongated aperture in the body portion, and a free end; said free end being spaced from its corresponding visor terminal and providing a tang adapted to abut an inboard surface of said drip molding; said elongated aperture affording an adjusting means whereby said tang may be positioned snugly relative to said inboard surface in order abuttingly to bear thereupon; each said bracket being independently adjustable to implement the abutting relationship just described.

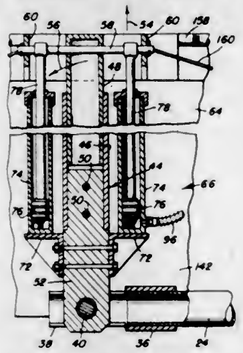
2,610,086
COLLAPSIBLE COVER FOR VEHICLE BEDS
Lawrence Shield, Reinbeck, Iowa
Application February 26, 1951, Serial No. 212,718
6 Claims. (Cl. 296—105)

1. In combination, an open top vehicle bed, two elongated frame guide rods each having each end bent first under and back upon itself and then downwardly to form an S portion thereat and terminating in an inverted U-shaped clamp member adapted to be removably secured to each end portion respectively of each side of said vehicle bed, a plurality of bow members arranged transversely the longitudinal axis of said vehicle bed and slidably mounted on said frame guide rods, a flexible member on each side of said bow members extending between the end bow members on



each side and secured to each bow on the respective sides, a flexible cover member secured over said bow members, means for securing said cover at its sides, a rod member arranged in each end of said cover member capable of being pulled over the first bend in said frame guide members and to be frictionally held in said S portion whereby the ends of said cover member are secured; said bow members retractable to expose said vehicle bed at times and extendable to enclose it at times.

2,610,087
DUMP TRAILER
Glenn R. Fields, Gem, and Samuel S. Bumpus, Eureka, Kans.
Application October 12, 1948, Serial No. 54,012
1 Claim. (Cl. 298—22)



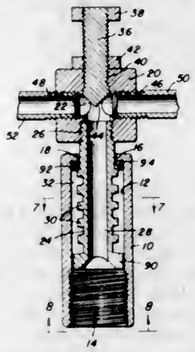
Extensible and tiltable supporting means for dump trailer bodies, comprising a telescopic support member including upper and lower sections slidably telescoped together, a transverse pivot pin extending through the lower end portion of the lower section for swingably connecting the support member to a trailer chassis, a pair of laterally projecting brackets secured to the lower section at opposite sides of the latter, a pair of hydraulic cylinders secured at one end thereof to the respective brackets, said cylinders having piston rods parallel to the longitudinal axis of said support member, a transverse shaft extending through the upper end portion of the upper section of the support member and having said piston rods connected thereto, and bracket means pivotally mounted on said shaft and adapted to be secured to a dump trailer body.

2,610,088
SPRAYING APPARATUS
Glenn E. Randell, Woodlake, Calif., assignor of one-half to Lawrence H. Lee, Upland, Calif.
Application March 16, 1951, Serial No. 215,883
14 Claims. (Cl. 299—37)



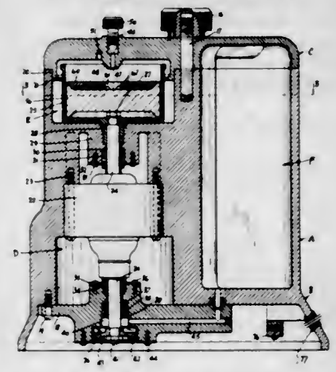
4. In a spraying apparatus having a nozzle, a device for automatically directing the nozzle in a predetermined pattern comprising means mounted for oscillation and mounting the nozzle thereon for oscillation about an axis transversely of the axis of oscillation of said means, a rotatably driven shaft adjacent to said means, an eccentric means extended from the shaft, an arm having an end pivotally connected to the mounting means for pivotal oscillation relative to said means about an axis transversely of the axis of oscillation thereof and an opposite end swivelly connected to the eccentric means, and a push-pull member pivotally interconnecting the nozzle at a position spaced from its pivotal axis and the arm at a position spaced from its pivotal connection to the mounting means whereby the mounting means and the nozzle are caused to oscillate about their differential axes.

2,610,089
SPRINKLER ROTATING SPINNER DRIVE
Hector Frank Unger, Portland, Oreg.; Dolores J. Unger executrix of said Hector F. Unger, deceased
Application March 22, 1948, Serial No. 16,267
7 Claims. (Cl. 299—69)



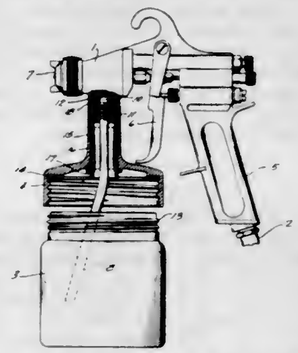
1. A rotating sprinkler comprising a hollow base having a water inlet opening, a hollow body communicating with the interior of said base through an end wall thereof, a spray head on said body communicating with the interior thereof, a tubular shank on said body rotatably disposed in said base, said shank establishing continuous communication between said body and base, annular bearing rings on said shank, longitudinally divided bearing sleeves in said hollow base journaling said shank therein, said sleeves having annular grooves rotatably receiving said annular bearing rings.

2,610,090
LATHER MACHINE
Gordon C. Johnson and Alden O. Johnson, Minneapolis, Minn., assignors to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application April 11, 1945, Serial No. 587,692
11 Claims. (Cl. 299—83)



1. In a lather mixer, a soap cake holder mounted for rotation to rotate the soap cake, means for contacting the surface of the soap cake to remove particles of soap by such rotation, a pump for supplying a controlled flow of liquid to the soap cake to produce lather, and a motor for simultaneously operating the pump and rotating said holder.

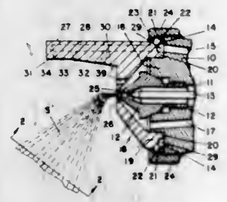
2,610,091
AIR-PRESSURE OPERATED PAINT SPRAY GUN
Millard B. Deutsch, Sheboygan, Wis., assignor to The Electric Sprayit Company, Sheboygan, Wis., a corporation of Delaware
Application March 10, 1950, Serial No. 148,930
2 Claims. (Cl. 299—88)



2. In a paint spray gun, a gun body having a threaded tubular member for carrying a paint

supply container and having a shoulder at the base of said member, a paint supply container, a cover for said container threaded thereon and adapted to fit over said tubular member, means threaded to said tubular member from inside said container for clamping said cover against said shoulder, a gasket disposed to seal between said cover and shoulder, and interlocking abutments between said cover and the base of said tubular member formed by alternately disposed complementary projections of each which serve to enclose and protect said gasket and to prevent relative turning movement of said cover and gun body during tightening and loosening of said seal and to prevent loosening of said threaded means during threading and unthreading of said container and cover.

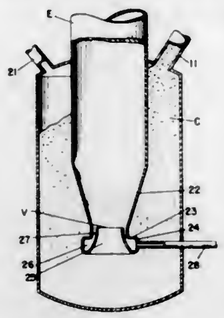
2,610,092
SPRAY DISCHARGE NOZZLE
Wayne B. Thompson, Winchester, Mass., assignor to Spray Engineering Company, Somerville, Mass., a corporation of Massachusetts
Application October 26, 1950, Serial No. 192,236
7 Claims. (Cl. 299—140.1)



1. A spray discharge nozzle having a main orifice for the discharge along an axis of liquid coating material and air under pressure to atomize the liquid; a projection extending from the front of the nozzle to one side of the main discharge orifice and provided with air passage means; and a plurality of ports disposed in pairs along said projection in communication with said air passage means for the discharge of air supplementally along opposite sides of the main discharge to form an air wall at each of said opposite sides, the axes of each pair of ports lying in a plane which intersects the main discharge axis, the axis of each individual port being laterally spaced from the main discharge axis, the space between the axes of each pair of ports along a line diametric of the main discharge orifice being greater than the diameter of said orifice, and the supplemental discharges from said ports being unopposed by corresponding supplemental discharges directed from the opposite side of the main discharge, whereby the axis of the main discharge is deflected from the axis of the main discharge orifice.

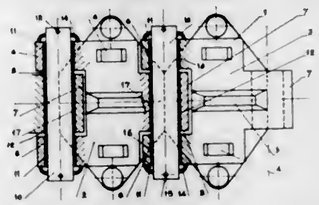
2,610,093
PNEUMATIC LIFT CONDUIT
Wayne K. Bergman, Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application December 22, 1950, Serial No. 202,324
1 Claim. (Cl. 302—53)

Apparatus for elevating granular material from a lower chamber containing a body of the material to an upper chamber which comprises an upright elevating conduit having its outlet end positioned within the upper chamber and its inlet end positioned within the lower chamber, said conduit having an inwardly tapered lower portion terminating in a relatively narrow inlet, a lateral flange extending outwardly from said inlet, a sidewall depending from said lateral flange, a tapered nozzle having an upper narrowed end extending into the narrow inlet of the conduit providing a confined annular space therewith and a lower widened end connected to said sidewall forming therewith and with said lateral



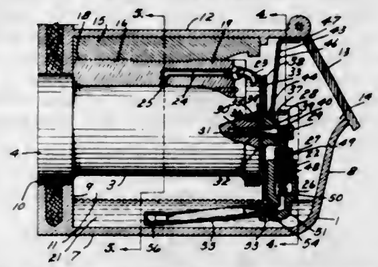
flange a pocket which communicates through said annular space with the tapered portion of the conduit, means for supplying a fluid medium to the body of material in the lower chamber to force the material upwardly through the widened end of said nozzle and into the tapered portion of the conduit and means for supplying a fluid medium to said pocket for passage through the annular space to elevate the material through the tapered portion of the conduit, upwardly into and through the elevating conduit to the upper chamber.

2,610,094
ARTICULATION OF TRACK LINKS OF ENDLESS TRACKS
Henri Grandgirard, Puteaux, France, assignor to Societe des Brevets Kegresse, S. E. K., Paris, France, a French corporation
Application January 10, 1946, Serial No. 640,322
In France August 23, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires August 23, 1963
1 Claim. (Cl. 305—10)



In a track for vehicles, rigid metallic links, provided with eyes and articulation axles for the links engaged in said eyes, the axles being each formed by a rough drawn bar, furnished with rings consisting of resilient material, a pair of rings corresponding to an eye of the track links, these rings being stuck and vulcanized on to the axle before its assembly, a metal ring of smaller external diameter, placed between both rings of each pair, and limiting their crushing in the case of very high tractive stresses.

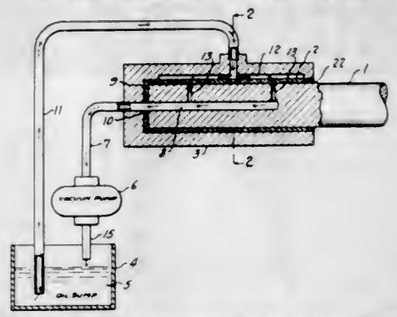
2,610,095
RAIL CAR BEARING AND OILER
Bonny I. Browning, North Kansas City, Mo., assignor by decree of distribution to Clare Browning
Application September 9, 1950, Serial No. 184,026
2 Claims. (Cl. 308—84)



1. In a rail car journal bearing having a housing supported on the truck frame of the car, said housing being adapted to contain a quantity of lubricating oil in the bottom thereof, said housing having a journal opening at one end thereof, a journal extending through the journal opening and into the housing, a bearing block having an arcuate lower face engaging the journal and having limited longitudinal movement relative to the journal, said bearing block having oil grooves in the arcuate lower face and an oil passage extending from the exterior thereof and connecting with the oil grooves, a seat member resting on the bearing block and having engagement with the upper portion of the housing for supporting the proportionate weight of the railroad car on the bearing blocks and journal, a spindle fixed to the end of the journal in the housing and extending therefrom in axial relation thereof, a pump cylinder having valved intake and outlet ports, means on the cylinder and rotatably mounted on the spindle whereby the axis of the cylinder is radially of the spindle, a piston reciprocable in the cylinder and extending therefrom toward the spindle, resilient means having engagement with the housing and the means on the cylinder for substantially preventing relative rotation between the cylinder and housing yet permitting the cylinder to move with the journal longitudinally of the housing, an intake duct extending into the lubricating oil in the bottom of the housing and having connection with the valved intake port of the cylinder, a flexible discharge duct connecting the valved outlet port of the cylinder and oil passage of the bearing block for delivering oil from the cylinder to the journal bearing, and an eccentric fixed on the spindle and engaging the piston for reciprocating the piston and pumping oil from the bottom of the housing and supplying said oil under pressure to the journal bearing in response to rotation of the journal in the housing.

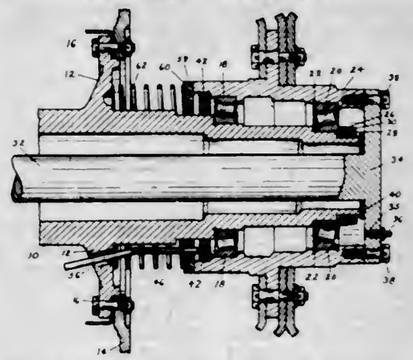
2,610,096
APPARATUS FOR LUBRICATING SHAFTS
Marion Mallory, Detroit, Mich.
Application February 14, 1949, Serial No. 76,356
6 Claims. (Cl. 308—121)

1. In combination a bearing, a rotary shaft carried in said bearing, a source of lubricant, a source of vacuum, a passageway connecting said source of lubricant with the bearing surface of said bearing, an axially extending passageway in said shaft, and at least one branch passageway in said shaft communicating at one end with said axial passageway and at the other end with the surface of said shaft, said axial and branch passageways connecting said source of vacuum with said bearing surface whereby the lubricant is drawn from said source of lubricant to said bear-



ing surface to lubricate the same and then drawn from said bearing surface through said branch and axial passageways to said source of vacuum.

2,610,097
LUBRICATING MEANS FOR BEARING ASSEMBLIES
Virgil M. Sheiden, Newburg, and Dallas E. Wells, Hooker, Mo.
Application December 1, 1949, Serial No. 130,396
16 Claims. (Cl. 308—187)

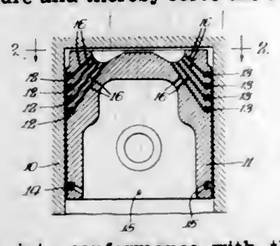


1. In a wheel assembly, for automotive vehicles, that comprises a tube to encircle the axle, spaced anti-friction bearings supported by said tube, a hub rotatably supported by the outer races of said bearings, an axle extending through said tube, a flange on said axle, a brake-applying mechanism and a support fixed relative to said tube for said brake-applying mechanism, the improvement which comprises an opening in said flange on said axle, a grease fitting mounted in said opening, an exhaust port adjacent the inner end of said hub, whereby grease can be introduced through said grease fitting and can exhaust through said exhaust port, a tube extending from said exhaust port, said tube being directed away from said brake-applying mechanism of said wheel assembly, and a pressure-relief valve in said tube.

2,610,098
PISTON CONSTRUCTION
Neville M. Reiners, Columbus, Ind., assignor to Cummins Engine Company, Inc., Columbus, Ind., a corporation of Indiana
Application April 25, 1950, Serial No. 157,895
5 Claims. (Cl. 309—31)

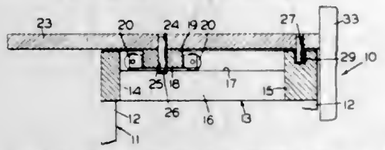
1. A piston member for a cylinder of an internal combustion engine, said piston member

having a peripheral groove, and a compression ring member mounted in said groove, one of said members having a passageway positioned to provide communication between the compression space of the cylinder and the inner portion of said groove to subject said inner portion to compression pressure and thereby force the ring member



outwardly into conformance with the cylinder, said passageway being so dimensioned and positioned that it will clog with carbon after a predetermined length of time of operation of the engine and thereby shut off said communication, the groove remaining substantially free of carbon so that the ring may freely expand and contract.

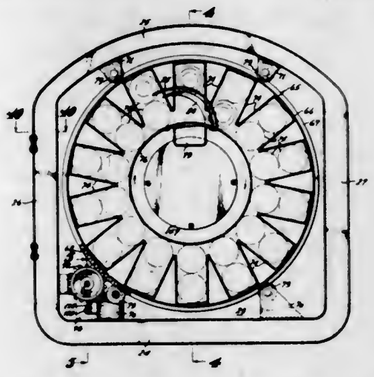
2,610,099
ROTATING AND RECIPROCATING TABLE TOP
Gordon G. McNamara, Jr., Chicago, Ill.
Application April 22, 1950, Serial No. 157,493
4 Claims. (Cl. 311—35)



1. A table comprising a frame having a flat horizontally extending supporting surface providing a roller track, a roller carriage positioned on said track for relative reciprocation with respect to said frame, a table top, vertical pivot means pivotally connecting said table top to said roller carriage whereby the top may pivot about a vertical axis with respect to said frame, means for reciprocating said top and said roller carriage simultaneously with pivotal movement of said top comprising a guide member supported horizontally across said frame and a pair of laterally disposed pins projecting from the top, said pins being movable with the top in an arcuate path toward engagement with said guide member during rotation of said top, at least one of said pins being in engagement with said guide member during any position of said top, the pin in engagement with the guide member being movable in a straight line direction across the frame, whereby said rotating top and said roller carriage are reciprocated in a direction at a right angle with respect to straight line direction of movement of the pin which is in engagement with the guide member.

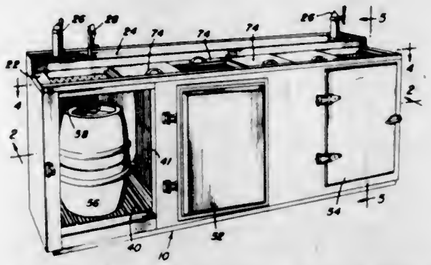
2,610,100
COIN CONTROLLED VENDING MACHINE
Harry S. Childers, Fresno, Calif., assignor to Vendorlator Manufacturing Company, Fresno, Calif.
Application December 26, 1947, Serial No. 794,045
6 Claims. (Cl. 312—97.1)

1. A bottle dispensing apparatus comprising an enclosed chamber having a delivery opening in a side wall thereof; a substantially cylindrical magazine having a substantially cylindrical shell, circumscribing rails mounted on the shell, and V-shaped partitions borne by the shell with the apices of said partitions inwardly disposed to the shell defining a plurality of radially disposed bottle compartments therebetween adapted to receive bottles in substantially horizontal positions, said compartments having inwardly disposed open end portions; rollers mounted in the cabinet in supporting engagement with the rails and supporting the magazine for rotation about a substantially horizontal axis; a cylindrical retainer mounted concentrically within the magazine in



closing relation to the compartments traveled thereabout and providing a discharge chute in the upper portion thereof extended inwardly of the magazine and downwardly to register with the delivery opening; a drive linkage peripherally engaged with the magazine for step rotation thereof in one direction; manual means for motivating the drive linkage; a heat exchanging unit mounted concentrically within the cylindrical retainer; and a selection finger mounted on the retainer and positioned to discharge bottles one at a time from the magazine into the delivery chute in response to movement of the bottles into registry with the chute upon rotation of the magazine.

2,610,101
APPARATUS FOR COOLING AND DISPENSING LIQUIDS
Herman L. Buffington and John K. Buffington, Punxsutawney, Pa.
Application August 31, 1948, Serial No. 47,112
3 Claims. (Cl. 312—236)

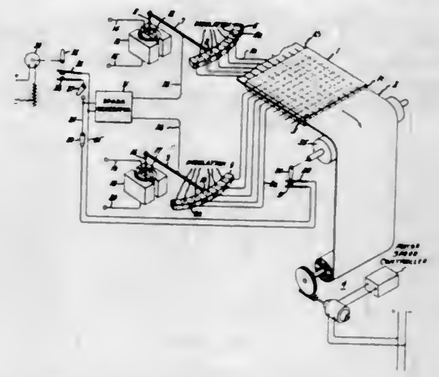


1. A cabinet having a bottom wall, a side wall and a top wall, a rail extending longitudinally of said side wall and having longitudinally spaced notches therein, floor racks including support members extending longitudinally of said bottom wall and transversely disposed laterally spaced

strips defining slots therebetween attached to said support members, a partition having a depending projection receivable in the slots defined by said strips, said partition having a horizontal extension receivable in one of said notches in said rail, said strips including inverted V-shaped members having outwardly directed flanges thereon, said partition resting upon the flange adjacent the slot through which said depending projection extends.

2,610,102
FUNCTION RECORDER
Louis G. Gitzendanner and Daniel F. Langenwalter, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application December 27, 1950, Serial No. 202,992
3 Claims. (Cl. 346—34)

2. A function recorder for two related variable quantities comprising a first grid of parallel electrical conductors and a second grid of parallel electrical conductors positioned in adjacent parallel planes with the conductors of said second grid extending perpendicular to the conductors of said first grid; a length of dielectric material separating said grids; a spark generator provided wit' output terminals and having an output voltage sufficient to pierce said dielectric material; means to control the frequency of discharge of said spark generator; a first commutator and a second commutator each having a plurality of insulated segments; separate electrical connections from the conductors of said first grid to corresponding segments of said first commutator and from the conductors of the said second grid to corresponding segments of said second commutator; a first indicating device electrically connected to one of said output terminals and engaging said first commutator, said first device being movable across the segments



thereof in response to the magnitude of one of said variable quantities; and a second indicating device electrically connected to the other of said output terminals and engaging said second commutator, said second device being movable across the segments thereof in response to the magnitude of the other of said quantities.

CHEMICAL

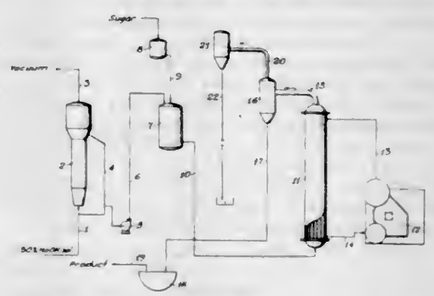
2,610,103
DYEING PROCESSES FOR WOOL AND PREPARATIONS THEREFOR
Willi Widmer, Bottmingen, Fritz Schuetz, Neuewelt, near Basel, and Alphonse Heckendorn, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application January 20, 1950, Serial No. 139,794. In Switzerland February 11, 1949
20 Claims. (Cl. 8—26)

1. A process for dyeing wool which comprises conducting the dyeing from an acid bath with an ortho:ortho'-dihydroxymonoazo dyestuff which per se is soluble in a dyebath having a pH value greater than 6.3 and up to about 8 but which is practically insoluble in a dyebath of which the pH value lies substantially below 6.3, in the presence of an ortho:ortho'-dihyroxymonoazo dyestuff which per se is soluble in a dyebath having a pH value below 6.3.

2,610,104
PRECIPITATION OF ZIRCONIUM HYDROXIDE IN A READILY FILTERABLE FORM
Howard H. Friedel, Westlake, Ohio, assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application February 12, 1952, Serial No. 271,279
4 Claims. (Cl. 23—140)

4. A process for obtaining zirconium oxide from ammonium zirconium fluoride which comprises dissolving ammonium zirconium fluoride in water, adding to said solution an aqueous solution of ammonium hydroxide which contains added salicylate ions, separating the precipitate of zirconium values thereby formed, slurrying said precipitate in isopropyl alcohol to remove salicylates, drying said precipitate, and then roasting said dried precipitate at above 300° C. to form zirconium oxide.

2,610,105
PROCESS OF SIMULTANEOUSLY PURIFYING AND DEHYDRATING CAUSTIC ALKALI SOLUTIONS CONTAINING CHLORATES
David J. Pye, Concord, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application March 26, 1951, Serial No. 217,658
3 Claims. (Cl. 23—184)



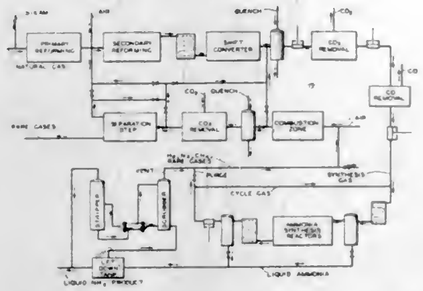
1. In the concentration of electrolytic caustic alkali solutions containing chlorate as impurity, wherein the electrolytic cell liquor is preconcentrated by evaporation to remove salt by crystallization, separated from salt crystals thereby formed and then further concentrated by evaporation, the improvement which consists in adding sucrose to such preconcentrated solution in

amount in excess of 1 mol per 8 mols of chlorate contained therein and heating the so treated solution at temperatures above 200° C. to effect further evaporation of the solution accompanied by chemical reduction of the chlorate.

2,610,106
PRODUCTION OF AMMONIA

Worth Gray, Dumas, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application January 4, 1950, Serial No. 136,787
3 Claims. (Cl. 23—199)



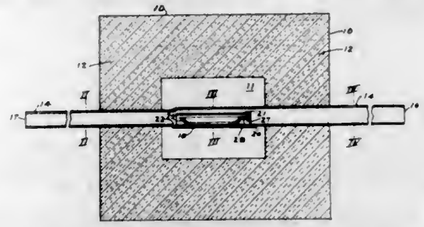
1. In a process wherein natural gas is reformed by reaction with steam to produce a gas containing hydrogen and carbon monoxide and residual quantities of methane, air is admixed with said gas and subjected to a second reaction causing removal of oxygen present in said air by combustion reaction, resulting gas is freed of carbon monoxide and carbon dioxide, thus purified gas rich in hydrogen and nitrogen but still containing a modicum of methane is compressed and contacted with an ammonia synthesis catalyst at synthesis conditions causing formation of ammonia by reaction of hydrogen with nitrogen, ammonia is recovered as product, cycle gas containing unreacted hydrogen and nitrogen and having methane concentrated therein by virtue of its inertness in the ammonia synthesis reaction is recycled to the ammonia synthesis reaction, and a portion of said cycle gas is withdrawn from the ammonia synthesis system to avoid pyramiding of methane therein, the improvement whereby hydrogen and nitrogen in said withdrawn gas are utilized reducing the amount of air necessary to be added to said second reaction and methane therein is effectively removed from the process, which comprises admixing air with said withdrawn portion of gas, subjecting the resulting admixture to combustion conditions causing reaction of oxygen in said air with methane and hydrogen in said gas to produce a resulting methane-poor, hydrogen-poor, nitrogen-rich gas, and introducing same into admixture with gas obtained from said second reaction whereby the nitrogen content of the gas resulting from the last said combustion is reintroduced to the ammonia synthesis reaction.

2,610,107
COMBUSTION ANALYSIS APPARATUS

George M. Dreher, Pittsburgh, Pa.

Application January 17, 1950, Serial No. 139,045
4 Claims. (Cl. 23—253)

1. In combustion analysis apparatus including a heating furnace having insulated walls defining a heating chamber therein, a combustion tube having inlet and outlet end portions extending through said walls and a center portion positioned in said chamber, said center portion having on its lower internal surface a depression providing shoulders spaced from each other axially of the tube, and a cylindrical protective liner having a length slightly less than the spacing of said shoulders for insertion in said tube to a position in which said shoulders act as abutments for preventing axial displacemet of the

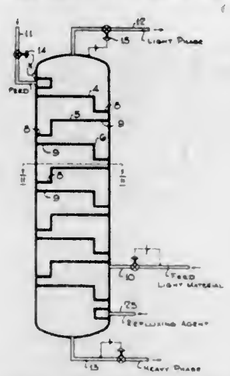


liner out of said depression, said liner having a wall thickness and said depression having a depth which are substantially equal so that the bottom internal surface of said liner in effect constitutes a continuation of the bottom internal surface of one of said end portions whereby a combustion boat may slide freely over said bottom surfaces in its removal from and insertion in said liner.

2,610,108
LIQUID-LIQUID EXTRACTION TOWER

John W. Packie, Maplewood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application January 26, 1949, Serial No. 72,841
3 Claims. (Cl. 23—270.5)

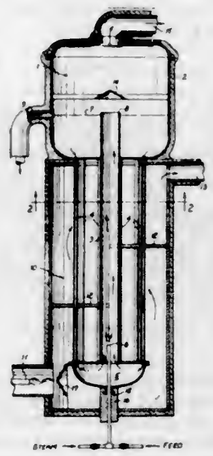


1. An improved liquid-liquid extraction tower comprising a vertical treating tower having a plurality of horizontally disposed plates extending throughout the tower, each of said plates consisting of two steps extending completely across the tower and having at least a portion of each of the steps perforated and each of said plates being in reversed relationship with successive plates in the tower whereby the lower step of one plate is adjacent the upper step of a successive plate, said perforations of successive plates being positioned so as to be substantially in vertical alignment, a light phase liquid feed substantially at the bottom of the tower, a heavy phase withdrawal at the bottom of the tower and a light phase withdrawal at the top of the tower associated with a pressure responsive flow control means and a heavy phase feed substantially at the top of the tower associated with a level controlled flow control means positioned substantially at the top of the said tower.

2,610,109
APPARATUS FOR CONDITIONING HIGH TEMPERATURE CHEMICAL FUSION REACTIONS AND OPERATIONS

James F. Adams, St. Louis, Russell L. Bauer, Brentwood, and George E. Taylor, St. Louis, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application July 28, 1950, Serial No. 176,304
2 Claims. (Cl. 23—284)



1. An apparatus for high temperature fusion-type reactions comprising, in combination, a closed chamber having a plurality of substantially vertical elongated heat exchange conduits communicating with said chamber and integral with the bottom of said chamber whereby the bottom of said chamber functions as a tube sheet, said plurality of heat exchange conduits depending from the bottom of said chamber and into a furnace chamber wherein said plurality of heat exchange conduits are in direct heat exchange relationship with a high temperature heat source, said closed chamber also having at least one vertical elongated conduit of a substantially larger diameter than said heat exchange conduits and the larger diameter elongated conduit cross-sectional area being greater than the total of the cross-sectional areas of the said heat exchange conduits, said larger diameter conduit depending from the bottom of the said closed chamber and also extending upwardly and entering the lower portion of said chamber and communicating with and terminating within said closed chamber above the upper extremities of said heat exchange conduits, means for providing fluid communication between the lower extremities of said heat exchange conduits and the lower extremity of said larger diameter elongated conduit, said larger diameter elongated conduit also having at least one feed inlet nozzle positioned in the lower extremity of said larger diameter elongated conduit and extending upwardly and terminating within the lower portion of said larger diameter elongated conduit, the longitudinal axes of each of the said feed inlet nozzles being substantially parallel to the longitudinal axis of the larger diameter elongated conduit in which it is positioned, conduit means located in said closed chamber and adapted to remove liquid materials from said chamber while maintaining a level of liquid materials within said chamber above the upper extremities of said heat exchange conduits communicating with said chamber and conduit means located in the upper portion of said chamber adapted to remove gaseous and vaporous materials from the upper portion of said chamber above the level of liquid materials within said chamber.

2,610,110
METHOD OF PRODUCING FINELY CRYSTALLINE ALUMINUM OXIDE

Bror Eliasson, Eskilstuna, Sweden

No Drawing. Application April 28, 1949, Serial No. 90,273. In Sweden April 30, 1948
10 Claims. (Cl. 23—300)

1. Method of producing finely crystalline aluminum oxide which comprises adding to a finely pulverized base material consisting of substantially alkali-free hydrated aluminum oxide an additive selected from a group consisting of phosphoric acid, phosphorus pentoxide and ammonium phosphates, pulverizing the mixture and calcining the mixture at a temperature of from 1000°–1300° C. for a period from one to five hours.

2,610,111
ORNAMENTAL CAKE PLATTER

Mary E. Stanley, Rockingham, N. C.

Application April 9, 1951, Serial No. 220,112
1 Claim. (Cl. 41—10)



An ornamental cake platter comprising a relatively rigid and substantially circular base plate, a single annular ruffle including a flat inner edge portion secured to said base plate at points spaced inwardly from the marginal edge of the latter and a main body portion comprising a plurality of radial plaits projecting beyond the marginal edge of the base plate, a substantially circular paper doily secured on said base plate and having an ornamental perforate marginal portion overlapping the main body portion of said ruffle, the marginal edge of said doily being spaced inwardly from the marginal edge of the ruffle, and a substantially circular sheet of pliable transparent plastic secured to said base plate and covering said doily, the marginal edge of said transparent plastic being spaced outwardly from the marginal edge of the doily and spaced inwardly from the marginal edge of said ruffle, said doily and said base plate being substantially equal in diameter.

2,610,112
SOOT REMOVAL COMPOSITIONS

Joseph A. Chenicek, Bensenville, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application November 16, 1949, Serial No. 127,789
8 Claims. (Cl. 44—5)

1. A soot removal composition consisting of an admixture of a copper chelate compound capable of volatilizing at normal furnace operating temperatures and a volatile chlorohydrocarbon in a proportion to provide a total chlorine to copper atomic ratio of at least 2 to 1.

2,610,113

MOISTURE CONTROL OF SOLIDIFIED FUEL

Karl A. Fischer, Washington, D. C., and Otto F. Hecht, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Application June 14, 1949, Serial No. 99,105
11 Claims. (Cl. 44—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of making a stable solidified hydrocarbon gel, comprising emulsifying liquid hydrocarbon in an aqueous solution of (1) a water-soluble substance selected from the group consisting of water-soluble salts of alginic acid and water-soluble salts characterized by repeating $-CH_2.CH<$ groups and (2) in an amount of from about ½% to about 15% of said aqueous solution, a substance selected from the group consisting of a water-soluble hygroscopic polyhydric alcohol and a water-soluble hygroscopic ether of a polyhydric alcohol, and reacting the dispersant phase of said emulsion with an aqueous solution of a calcium salt to convert said phase into a water-insoluble and hydrocarbon-insoluble stabilized calcium complex.

3. A stable solidified hydrocarbon body comprising a dispersion of a liquid hydrocarbon in a gelled dispersant phase essentially comprising a substantially hydrocarbon-insoluble and water-insoluble calcium complex and a stabilizing substance selected from the group consisting of a water-soluble hygroscopic polyhydric alcohol and a water-soluble hygroscopic ether of a polyhydric alcohol.

2,610,114

SOLIDIFICATION OF LIQUID FUEL

Karl A. Fischer, Washington, D. C., and Otto F. Hecht, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Application June 14, 1949, Serial No. 99,107
15 Claims. (Cl. 44—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of making a solidified hydrocarbon gel, comprising emulsifying liquid hydrocarbon in an aqueous solution of a water-soluble polymeric monovalent salt being a member of the group consisting of alkali metal salts and ammonium salts and characterized by repeating

$$-CH_2.CH<$$

groups, and reacting the liquid dispersant phase with a member of the group consisting of alkaline earth chlorides, alkaline earth nitrates and alkaline earth sulfates, to convert said phase into a water-insoluble and hydrocarbon-insoluble solid alkaline earth complex.

14. A solidified non-explosive hydrocarbon body comprising a dispersion of gasoline in a solidified dispersant phase essentially comprising the water-insoluble and substantially hydrocarbon-insoluble reaction product of (1) a member of the group consisting of alkaline earth chlorides, alkaline earth nitrates and alkaline earth sulfates with (2) the liquid dispersant phase of a liquid emulsion of gasoline as the dispersed phase in an aqueous solution of a water-soluble alkali metal polyacrylate as the dispersant phase.

2,610,115

METHOD FOR DEHYDRATING LIGNITE

Henry G. Lykken, Minneapolis, Minn.

Application September 30, 1948, Serial No. 52,008
1 Claim. (Cl. 44—33)

A continuous process of producing a low moisture content lignite-mineral hydrocarbon fuel comprising a solid fuel composed of lignite particles and fines and a mineral hydrocarbon binder therefor, said solid fuel characterized by being dust-free, slack-resistant and having a smooth abrasion-resistant surface which comprises the steps of crushing natural lignite; screening said lignite to a size not substantially exceeding 1 inch mesh; mixing therewith about 3 to 10% of the weight of the lignite, dry basis, of a mineral hydrocarbon oil; passing the mixture into a heating zone to heat the mixture to a temperature of about 300° F.; rolling the particles of said mixture upon themselves in said heating zone until the moisture content of said particles is from about 3 to 6%; bonding the lignite fines present in the screened lignite and produced during said heating and rolling operation to said lignite particles with said mineral hydrocarbon oil; removing the lignite-mineral hydrocarbon fuel particles from said heating zone; and cooling said fuel particles.

2,610,116

HERBICIDE AND DEFOLIANT

Lyle D. Goodhue and Carolyn E. Tissol, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application January 4, 1950, Serial No. 136,840
14 Claims. (Cl. 71—2.5)

1. A method of inhibiting the growth of undesired plants which comprises contacting same with enough of a 2,3,4,5-bis(Δ^2-butenylene)-tetrahydrofurfural to inhibit growth.

2,610,117

COMPOSITIONS AND METHOD FOR REDUCING THE LOSS OF CROP BY FROST DAMAGE TO FLOWERING PLANTS

Peter Paul Hopf, Orpington, and Geoffrey Leigh Hey, Luton, England, assignors to Ward Blenkinsop & Company Limited, London, England, a British company

No Drawing. Application June 1, 1951, Serial No. 229,544
20 Claims. (Cl. 71—2.5)

1. A composition for reducing the loss of crop by frost damage to a fruit bearing plant which comprises, as its essential ingredients, a plant hormone, a substance having antipellagric activity and a substance having vitamin K activity.

2,610,118

SINTERED IRON BODIES AND PROCESSES THEREFOR

Joseph E. Drapeau, Jr., Calumet City, Ill., and James H. Smith and Richard J. Halsted, Hammond, Ind., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application June 17, 1948, Serial No. 33,658
10 Claims. (Cl. 75—22)

9. The method of making sintered iron bodies of improved strength from thermochemically-coated iron powders, said method comprising the steps of: providing a sinterable mass consisting essentially of an intimate admixture of (*a*) iron powders, at least a major part of which powders carries a copper coating amounting to between about 4% and 30% of the total weight of the iron powders, said coating having been applied to the said major part of the iron powders by a thermochemical reaction between said iron powder and finely-divided copper oxide at temperatures between about 1000° F. and 1500° F. in a non-oxidizing atmosphere, and (*b*) between about ¼% and 4% in metallic tin equivalent in finely-divided form, by weight of the copper-coated iron powder; sintering said sinterable mass in a reducing atmosphere at temperatures between about 1800° F. and 2200° F.; and cooling said sintered mass in a non-oxidizing atmosphere.

2,610,119

DEFIBERING PRESOAKED LIGNO-CELLULOSE

Gunnar Magnuson, Stockholm, Sweden, assignor to Aktiebolaget Defibrator, Stockholm, Sweden, a corporation of Sweden

No Drawing. Application September 14, 1946, Serial No. 697,157
1 Claim. (Cl. 92—6)

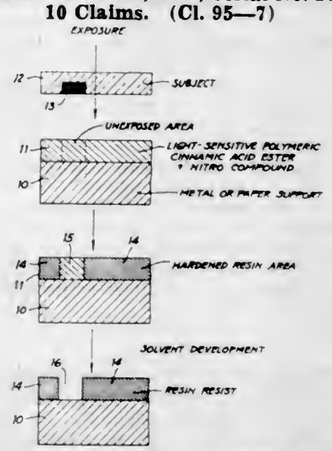
The improvement in the method of producing pulp from ligno-cellulose material which consists in soaking the ligno-cellulose material in chipped form in an aqueous solution of inorganic digesting reagents, maintaining the material at substantially room temperature for approximately 4 to 28 hours and sufficient for the chemical to penetrate the interior of the chips without the employment of penetration-facilitating measures, thereafter introducing the chips into a steam atmosphere having a temperature of approximately 150–170° C. and at which the middle lamella of the material is markedly softened, and substantially immediately defibrating the chips while in said atmosphere and at the last-mentioned temperature.

2,610,120

PHOTOSENSITIZATION OF POLYMERIC CINNAMIC ACID ESTERS

Louis M. Minsk, Werter P. Van Deusen, and Earl M. Robertson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application March 9, 1950, Serial No. 148,684
10 Claims. (Cl. 95—7)



1. A photomechanical resist composition comprising a cinnamic acid ester of polyvinyl alcohol as a combined carrier and light-sensitive material, and as a sensitizer for the composition a nitro aryl compound having a nucleus containing from 6 to 10 carbon atoms, from 1 to 3 nitro groups being attached to said nucleus, the mono-nitro compounds being free of amino, hydroxyl and formyl groups in a position ortho to the nitro group, said nitro aryl compounds being free of an amino and a hydroxyl group in positions ortho to each other, and free of carboxyl and sulfo groups.

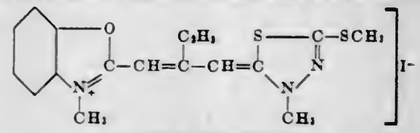
2,610,121

PHOTOGRAPHIC SILVER HALIDE EMULSIONS

Polydoor Frans De Smet, Wilrijk-Antwerp, and André Emile van Dormael, Heverlee-Louvain, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium

No Drawing. Application June 27, 1947, Serial No. 757,664. In Great Britain July 5, 1946
1 Claim. (Cl. 95—7)

A photographic silver halide emulsion comprising a dyestuff which corresponds to the formula:



2,610,122

SILVER HALIDE DEVELOPER CONTAINING 2(β-HYDROXYETHYL)AMINOPHENOL AND p-HYDROXYPHENYLAMINO ACETIC ACID

David Hugh Oakley John, Hornchurch, and George Terence James Field, London, England, assignors to May & Baker Limited, Dagenham, England, a British company

No Drawing. Application May 12, 1950, Serial No. 161,734. In Great Britain July 31, 1948
9 Claims. (Cl. 95—88)

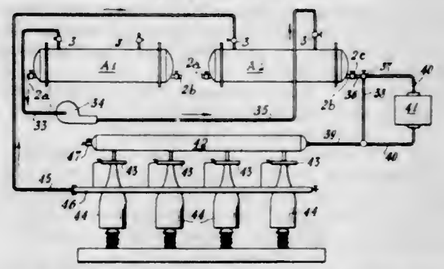
4. A photographic developer for silver halide emulsions comprising a salt of 2(β-hydroxyethyl)aminophenol and p-hydroxyphenylamino acetic acid in aqueous alkaline solution, the concentration of 2(β - hydroxyethyl)aminophenol (calculated as sulphate) being between 4 and 8 grams per litre, and the concentration of p-hydroxyphenylamino acetic acid being from 10–30% of the said concentration of 2(β-hydroxyethyl)-aminophenol.

2,610,123

DEVICE AND PROCESS FOR PRODUCING CHAMPAGNE, SPARKLING WINES, AND OTHER FERMENTED BEVERAGES

Andres Bruyere and Juan Andres Roberto Bruyère, Vincente Lopez, Argentina

Application November 27, 1950, Serial No. 197,662
12 Claims. (Cl. 99—48)



11. In the process of producing champagne, sparkling wines and other fermented beverages, the combination of steps which comprises subjecting the liquid from which the beverage is

prepared to fermentation within a plurality of containers, each of which is supported for rocking movement about its longitudinal axis by a movable support, periodically rocking each of said containers about its longitudinal axis, and periodically moving the fermenting liquids while in said containers carried on the support from a relatively hot zone to a relatively cold zone and vice versa and thereby subjecting the fermenting liquid in the containers to sudden changes of temperature and thus ageing the product.

2,610,124

PRODUCTION OF QUICK-COOKING RICE

Robert L. Roberts, Piedmont, Calif., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application August 7, 1950, Serial No. 178,163

2 Claims. (Cl. 99—80)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of preparing a quick-cooking rice which comprises subjecting cooked rice having a moisture content of about from 45 to 55% to a stream of air at a temperature from about 170° C. to about 250° C., the velocity of the air stream being sufficient to tumble the rice grains about and suspend them in the stream, the rapid expulsion of steam under such conditions causing the formation of a partly dried product in which a multitude of small spheroidal voids is uniformly dispersed throughout each grain of rice, then subjecting this partly dried, porous product to an air stream at a temperature from about 100° C. to about 150° C. and completing the drying under such conditions.

2,610,125

EDIBLE FATTY MATERIAL

Emery I. Valko, Mountain Lakes, N. J., assignor to E. F. Drew & Co., Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 16, 1949, Serial No. 127,764

5 Claims. (Cl. 99—123)

1. An edible fatty composition consisting essentially of an edible fat having incorporated therein the diester of a polyglycol taken from the class consisting of ethylene and propylene glycols having a molecular weight of 400 to 2500 with at least one fatty acid having from 12 to 22 carbon atoms.

2,610,126

DECORATION OF HEAT-RESISTING BASES, SUCH AS GLASS, EARTHENWARE, AND CHINA

Frank Enoch Kerridge and Cyril Stanley Couper, London, England, assignors to Johnson, Matthey & Company Limited, London, England, a British company

No Drawing. Application April 19, 1948, Serial No. 21,857. In Great Britain April 23, 1947

3 Claims. (Cl. 106—26)

1. A silk-screen printing paste for use in the preparation of gold transfer or for direct application to an earthenware base, said paste comprising a mixture of the following constituents in the following proportions by weight, namely:

	Per cent
Gold powder	26
Mercuric aurate	22
Lead borosilicate flux	1
Solution of plasticised nitrocellulose medium	51

2,610,127

SILK-SCREEN PRINTING PASTE

Frank Enoch Kerridge and Cyril Stanley Couper, London, England, assignors to Johnson, Matthey & Company Limited, London, England, a British company

No Drawing. Application June 3, 1949, Serial No. 97,094. In Great Britain June 9, 1948

6 Claims. (Cl. 106—26)

3. A silk-screen printing paste for the preparation of a transfer or for direct application to a heat-resisting base, said paste consisting essentially of a metal powder-ceramic flux mixture, said metal powder being chosen from the group consisting of gold powder and a mixture of gold powder and silver powder, and anthracene, said metal powder-ceramic flux mixture and anthracene constituting solid ingredients, and an organic screening vehicle comprising nitrocellulose dissolved in a solvent selected from the group consisting of amyl lactate, ethyl lactate and mixtures thereof, and the relative proportion of the combined amounts of metal powder-ceramic flux mixture and anthracene to liquid vehicle being always substantially 2 parts of solids to 1–4 parts of vehicle.

2,610,128

SILK-SCREEN PRINTING PASTE

Frank Enoch Kerridge and Cyril Stanley Couper, London, England, assignors to Johnson, Matthey & Company Limited, London, England, a British company

No Drawing. Application July 18, 1949, Serial No. 105,444. In Great Britain July 27, 1948

5 Claims. (Cl. 106—26)

3. A silk-screen printing paste for the preparation of a transfer or for direct application to a heat-resisting base, said paste consisting essentially of a platinum powder-ceramic flux mixture and anthracene, said platinum powder-ceramic flux and anthracene constituting solid ingredients, and an organic screening vehicle comprising nitrocellulose dissolved in a solvent selected from the group consisting of amyl lactate, ethyl lactate and mixtures thereof, and the relative proportion of the combined amounts of platinum powder-ceramic flux mixture and anthracene to liquid vehicle being always substantially two parts of solids to 1–4 parts of vehicle.

2,610,129

SYNTHETIC RUTILE AND METHOD OF MAKING

William G. Eversole and Wilfred Drost, Kenmore, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application March 22, 1949, Serial No. 82,927

11 Claims. (Cl. 106—42)

1. A single crystal of synthetic rutile consisting of titania and an effective amount up to about 1% of at least one substance selected from the group consisting of tantalum oxide and columbium oxide.

2,610,130

WATER-REPELLENT GYPSUM PRODUCT

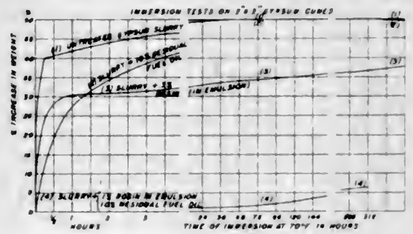
Wallace C. Riddell, Berkeley, and George B. Kirk, Redwood City, Calif., assignors, by mesne assignments, to Kaiser Gypsum Company, Oakland, Calif., a corporation of California

Application July 10, 1950, Serial No. 172,868

16 Claims. (Cl. 106—116)

1. Water-repellent gypsum product comprising a set mass of gypsum crystals protectively

coated with from 0.5% to 2.0% by weight of uni-



formly dispersed finely divided rosin, and from 2% to 10% by weight residual fuel oil.

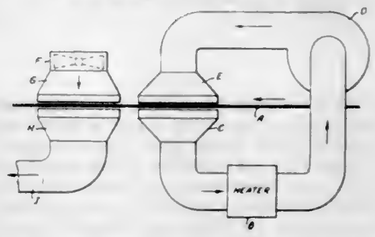
2,610,131

METHOD FOR FORMING LINED CONTAINER CLOSURES

Dunbar L. Shanklin, Winchester, and Richard C. Adams, Cambridge, Mass., assignors to Dewey and Almy Chemical Company, Cambridge, Mass., a corporation of Massachusetts

Original application February 21, 1949, Serial No. 77,622. Divided and this application April 27, 1950, Serial No. 158,486

6 Claims. (Cl. 117—65)



1. The process of fluxing linings on container closures while retaining the protective or lithographic coating on the closure in an undamaged condition by heating the closure in a blast of heated air said linings being formed of a plastisol comprising small particles of a paste-forming synthetic resin suspended in a non-volatile plasticiser for the resin, said resin being substantially insoluble in the plasticizer at atmospheric temperatures but being completely soluble in the plasticizer at an elevated fluxing temperature and forming at this elevated temperature a permanent gel which becomes elastic and rubbery upon subsequent cooling which comprises arranging the lined closures on an open mesh support, said support being of such open mesh that when it is loaded with closures to be treated 30 to 70% of its area is still free for the passage of air therethrough, directing a continuous stream of heated air upon said closures and around and past the same, said stream continuously discharging through said mesh support, said air being heated to a temperature not substantially less than 300° F. sufficient to flux the lining and not greater than the temperature at which the coating on the closures would discolor within a heating time of two minutes, said flow of air having a velocity through the free areas of the support in excess of 1500 feet per minute and sufficient to cause the closures to attain a temperature within 5° F. of the temperature of the heated air within a period not exceeding 60 seconds, removing the fluxed closures from the stream of heated air within a period such that the overall time of exposure to the heated air is less than two minutes and cooling the closures.

2,610,132

STARCH CONVERSION PROCESS

William B. Newkirk, La Grange, and John E. Dlouhy, Forest Park, Ill., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application November 15, 1949, Serial No. 127,522

8 Claims. (Cl. 127—40)

1. In the process of preparing sirups from acid starch hydrolysate liquors having a D. E. value within the range of about 10 to about 32 by hydrolyzing starch with acid to a predetermined D. E. value followed by neutralization of the acid in the liquor to a pH of about 5 and refining and evaporating the liquor, the improvement which comprises adding to the liquor prior to neutralization a sufficient amount of material from the group consisting of fatty acids derived from the hydrolysis of corn starch; fatty acids derived from the hydrolysis of sorghum grain starch; household soaps; sodium stearate; palmitic acid, stearic acid, oleic acid, linoleic acid, linolenic acid, arachidic acid, lignoceric acid, myristic acid, lauric acid, capric acid; soluble soaps derived from such acids, and mixtures of any of such soaps and acids, to react with the starch and/or starch-like bodies present to form a complex with the starch, cooling the liquor to a temperature within the range of about 60° F. to about 140° F. and maintaining the temperature of the cooled liquor within such range for at least one hour, and thereafter removing the fat-starch complex from the liquor.

2,610,133

PROCESSES OF BRIGHTENING AND PASSIVATING CADMIUM AND ZINC

Francis X. Thomson, Delaware Township, Camden County, N. J., assignor to Radio Corporation of America, a corporation of Delaware

No Drawing. Application October 26, 1949, Serial No. 123,798

7 Claims. (Cl. 148—6.21)

1. A process of brightening and passivating a metallic surface of at least one substantially pure metal from the class consisting of cadmium and zinc, comprising treating said surface with an aqueous solution of nitric acid in which the acid concentration is about 0.1 to 3% by volume, then treating said surface with an aqueous solution consisting essentially of about 1 to 6 ounces of an alkali dichromate salt and about 1 to 8 ounces of a wetting agent per gallon of water, rinsing the treated surface, and drying, said process being carried out without permitting the article being treated to stand for any appreciable time between successive steps.

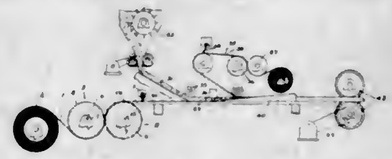
2,610,134

APPARATUS AND METHOD OF MAKING VENTILATED FRUIT CUSHIONS

Benjamin M. Hoblick, Fresno, Calif., assignor to Blake, Moffitt & Towne, San Francisco, Calif., a corporation of California

Application April 27, 1948, Serial No. 23,556

7 Claims. (Cl. 154—29)



1. In the making of ventilated fruit cushions of the type in which at least one side of cushion-

ing material is covered by a sheet of paper, the steps of partially punching out pieces of said sheet to one side thereof leaving said pieces connected to said sheet at correspondingly positioned edges of the openings from which they have been punched, then folding said pieces against said sheet in direction away from said openings, and thereafter positioning one side of said cushioning material against the pieces so folded to hold said pieces from closing said openings.

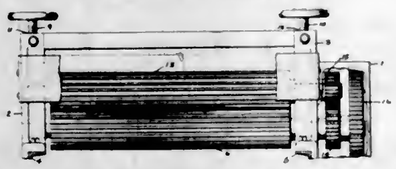
5. In apparatus for making ventilated fruit cushions, a rotary punch and a rotary die respectively provided with a circumferentially extending row of complementarily formed intermeshing male and female die elements adapted to partially punch pieces of a sheet of paper to one side of such sheet along substantially all edges of such pieces except their trailing edges upon such sheet being moved in one direction between said punch and die, and means positioned to engage said one side of said sheet after the latter has been moved past said punch and die for bending said pieces away from the openings formed by punching said pieces from said sheet so that the said trailing edges of said pieces will become the leading edges after movement of said sheet past said means, and means for feeding cushioning material into engagement with said pieces for holding them in their positions bent away from said openings.

2,610,135

MALLEABLEIZING MACHINE

William Moore Kordsiemon, Quincy, Ill.

Application March 21, 1950, Serial No. 150,918
1 Claim. (Cl. 154—30)



In a device of the character described consisting of a fluted roller provided with an axle mounted in bearings respectively and fixedly disposed in a pair of supports; one end of said axle extending beyond its companion support and provided with a gear and drive gear secured thereto in spaced relation to each other; a fluted roller provided with an axle mounted in bearings respectively disposed in said supports in movable fashion; each of said last named bearings being respectively connected through springs with pressure handles for actuating said last named fluted roller a table juxtaposed near the meshing point of said rollers and extending beyond and away from said supports, for directing a material between said rollers, and a gear connected to one end of said last named axle which meshes with the gear of said first named axle.

2,610,136

MANUFACTURE OF CORRUGATED PAPERBOARD

James P. Casey, Lowell O. Gill, and Robert A. Sherman, Decatur, Ill., assignors to A. E. Staley Manufacturing Company, Decatur, Ill., a corporation of Delaware

No Drawing. Application May 1, 1946, Serial No. 666,511
2 Claims. (Cl. 154—33.05)

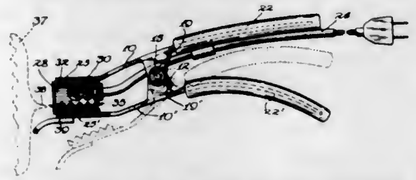
1. In the process of making corrugated paperboard wherein a liner ply is bonded to the corrugated ply by means of a heat-gelling amylaceous adhesive, the improvement comprising: applying to one of said plies, on the surface to be joined, an aqueous adhesive composition of which the sole amylaceous ingredient is ungelatinized, modified starch, said starch having been modified by milling at a 10 to 40% moisture content on differential rolls below its pasting temperature, to such an extent that the starch granules partially swell in cold water yielding a fluid suspension relatively stable in regard to viscosity changes and sedimentation; assembling the plies and heating the assembly, whereby gelatinization of the starch and bonding of the plies occur.

2,610,137

ELECTROTHERMAL BAG SEALER

Cecil M. Williamson, Elmhurst, and Earl D. Boisselier, Glen Ellyn, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York

Application August 16, 1948, Serial No. 44,476
4 Claims. (Cl. 154—42)



1. A hand tool for sealing a thermoplastic bag, comprising a pair of lever arms pivoted together intermediate their ends, the arms on one side of the pivot serving as handles, relatively long, narrow transverse jaws on the ends of said arms opposite said handles, said jaws having a plurality of interengaging deformations cooperating to provide a tortuous path for gas tending to enter or leave a container sealed by said tool, and electrical means for heating one of said jaws.

2,610,138

MANUFACTURE OF RESIN-BOUND FIBER STRUCTURE

Clark C. Heritage, Cloquet, Minn., assignor to Wood Conversion Company, St. Paul, Minn., a corporation of Delaware

Application November 27, 1945, Serial No. 631,117
2 Claims. (Cl. 154—101)



1. The method which comprises dispersing into a gaseous medium 100 parts by weight of dry substantially individualized cellulosic fibers derived from wood, and atomized fog-like particles of an aqueous alkali-stabilized solution containing on the order of about 7% by weight of dissolved phenol-formaldehyde resin-forming solids, in amount to supply from 7 to 25 parts of said resin solids by weight, said solution having the capacity readily to wet any of said fibers and spread over the surfaces of said fibers, thereby to provide a film of said resin solution on a so-wetted fiber, causing said fibers and fog-like particles to mingle in said gaseous medium and to provide liquid film coatings on at least a major portion of said fibers and on at least a portion of the surface of a so-coated fiber, bringing the resulting mixture of fibers and carried liquid into felted-fiber-mat-forming contact whereby fiber-to-fiber contacts are formed in the presence of liquid carried initially by at least one of any two contacting fibers, and drying the resulting mat at a thermosetting temperature for said resin before saturating impregnation of the fibers can occur, whereby to provide resin-bonds from fiber-to-fiber and resin coats on at least some of the surfaces of the fibers.

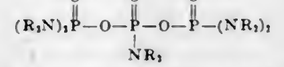
2,610,139

ORGANIC PHOSPHORUS COMPOUNDS

William T. Dye, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 18, 1950, Serial No. 162,823
10 Claims. (Cl. 167—22)

1. As new compounds, pentakis(di-N-substituted amido)triphosphates having the general formula



in which R is a hydrocarbon residue of from 1 to 6 carbon atoms.

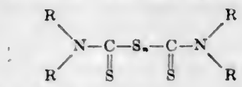
2,610,140

COMPOSITION FOR THE PREVENTION AND CONTROL OF COCCIDIOSIS IN POULTRY

Vincent A. Santivasi, Springfield, Pa., assignor to Barker, Moore & Mein Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application April 21, 1950, Serial No. 157,406
4 Claims. (Cl. 167—53.1)

1. A composition for the prevention and control of coccidiosis in poultry comprising a mixture of finely-divided sulfur and a tetraalkylthiuram sulfide having the following structural formula:



where *n* is an integer from 1 to 2; and where the alkyl groups R are selected from the group consisting of methyl, ethyl and propyl, the ratio, by weight, of sulfur to tetraalkylthiuram sulfide being between about 1 to 1 and about 50 to 1.

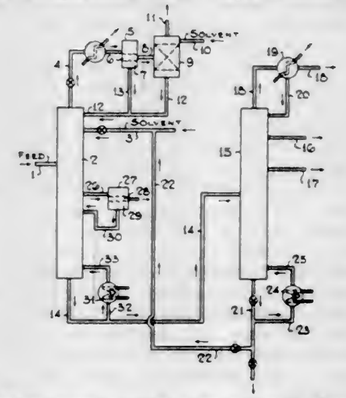
2,610,141

EXTRACTIVE DISTILLATION PROCESS

William M. Drout, Jr., Linden, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application April 1, 1949, Serial No. 84,987
6 Claims. (Cl. 202—39.5)

1. In the separation of organic component A from organic component B by extractive distillation wherein components A and B are introduced into a fractional distillation zone at an intermediate point thereof, wherein a distillation solvent is introduced into the fractional distillation zone at a point above the point of introduction of components A and B and heat applied to effect vaporization of the components one of which is removed overhead from the extractive distillation zone as a vapor and the other as bottoms dissolved in the solvent, and wherein the overhead condenses into a solvent phase and a non-solvent phase containing quantities of the bottoms component, the improvement which



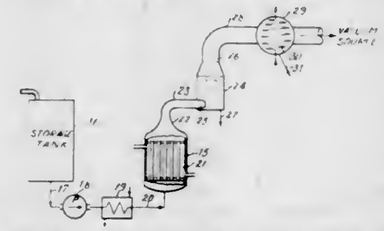
comprises extracting the non-solvent phase with the distillation solvent and returning the extract and the solvent phase to the distillation zone.

2,610,142

DISTILLATION OF FATTY ACIDS

Edward A. Lawrence, New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Application August 4, 1949, Serial No. 108,531
6 Claims. (Cl. 202—66)



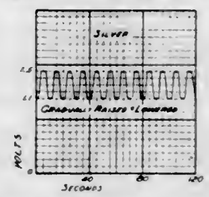
6. A process of treating a vapor stream of fatty material carrying entrained liquid particles to purify said vapor comprising moving the vapor under reduced pressure at a velocity substantially equal to the acoustic value, and after said vapor is moving at acoustic velocity subjecting the same to a centrifugal purifying action while maintaining said vapor under reduced pressure to cause said entrained liquid particles to separate from the vapor stream.

2,610,143

METHOD OF ELECTROPOLISHING

Samuel E. Eaton, Lexington, Mass., assignor, by mesne assignments, to Oneida, Ltd., Oneida, N. Y., a corporation of New York

Application February 8, 1947, Serial No. 727,452
6 Claims. (Cl. 204—140.5)



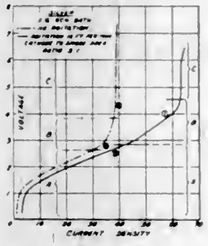
1. Method for the anodic polishing of silver, copper, cadmium, alloys consisting of these

metals, brass, bronze, zinc and nickel silver, in an electrolytic cell containing a cyanide bath, which comprises the steps of applying a continuously unidirectional substantially constant initial electric current and potential difference between such metal, as the anode surface, and the cathode of the cell, positively fluctuating such potential difference, the upper limit of which fluctuation is below that potential difference at which permanent discoloration of the anode surface would take place within the time period of the fluctuation during which it is maintained and the lower limit of which fluctuation is above that potential difference at which etching of the anode surface would take place within the time period of the fluctuation during which it is maintained, the complete time cycle of each variation being approximately 1 to 30 seconds and continuing such positive fluctuation of the unidirectional potential difference between the surface which is to be polished and the cathode of the cell until at least a portion of the anode surface of the metal acquires a polish.

2,610,144
METHOD OF ELECTROPOLISHING

Samuel E. Eaton, Lexington, Mass., assignor, by mesne assignments, to Oneida, Ltd., Oneida, N. Y., a corporation of New York

Application February 8, 1947, Serial No. 727,453
12 Claims. (Cl. 204—140.5)



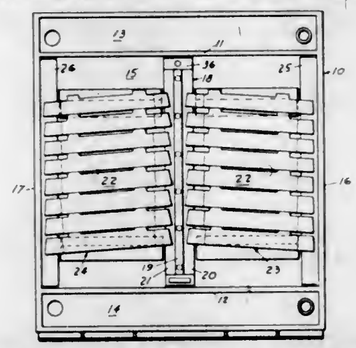
1. Method for the anodic polishing of silver, copper, cadmium, alloys consisting of these metals, brass, zinc and nickel silver in an electrolytic cell containing a cyanide bath in which the rate of agitation of the anode with respect to the electrolyte affects the potential difference-current density curve and the location of the equilibrium etching, polishing and permanent coloration regions with respect to said curve, said method comprising the steps of setting up an initial agitation of such metal with respect to the electrolyte, applying a potential difference between the anode and the cathode, said potential difference being in the equilibrium polishing region, cyclically changing said rate of agitation to shift the resulting potential difference-current density values to a point outside said polishing region for a period of time short enough to avoid the formation of a permanent etch or a permanent coloration, and repeating said cycle until at least a portion of the anode acquires a polish.

2,610,145
ELECTROPLATING

Abram B. Wilson, Weirton, W. Va., assignor to National Steel Corporation, a corporation of Delaware

Original application May 28, 1943, Serial No. 488,866. Divided and this application March 2, 1949, Serial No. 79,150
2 Claims. (Cl. 204—206)

1. Apparatus for continuously electroplating a moving strip of material having a conductive surface in which a tray presents an electroplating cell adapted to have the strip move across the cell from end to end in a horizontal path with the conductive surface thereof in contact with the electrolyte in the cell comprising an anode-supporting structure in the tray below the path of the strip, the anode-supporting structure including a supporting base member of electrically conductive, corrodible metal extending across the tray and the path of the strip and having an upper surface extending across from side to side of the path of the strip, means for connecting the base member to a source of electroplating current, a member supported by the base member and formed of carbon resistant to attack by the electrolyte and disposed below the path of the strip in the electrolyte of the cell in electrical engagement with the upper surface of



the supporting base member along the length of the carbon member, the carbon member presenting an upper surface facing toward and extending across from side to side of the path of the strip and the conductive surface of the strip, and a protective coating on the surfaces of the base member and the carbon member exposed to the electrolyte to prevent the electrolyte from chemically acting on the same, except the upper surface of the carbon member which is left exposed, and a plurality of soluble, electroplating anode elements submerged in the electrolyte and supported by the anode-supporting structure in electrolytic relationship with the conductive face of the strip, the anode elements being slidably mounted on and in direct electrical contact with the exposed upper surface of the carbon member.

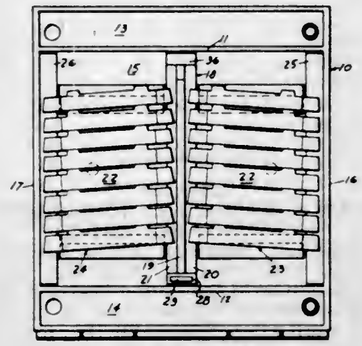
2,610,146
ELECTROPLATING APPARATUS FOR MOVING STRIP

Walter W. Kompart, Steubenville, Ohio, assignor to National Steel Corporation, a corporation of Delaware

Original application May 28, 1943, Serial No. 488,866. Divided and this application April 18, 1950, Serial No. 156,693
2 Claims. (Cl. 204—206)

1. Apparatus for continuously electroplating the bottom surface of a moving strip of conductive material with a layer of protective metal comprising a horizontally disposed tray presenting an electroplating cell adapted to have the strip move along a path across the cell from end to end with the bottom surface in contact with electroplating solution in the cell, an anode support in the cell in position to be submerged in the electroplating solution below the bottom surface of the strip, the anode support including a member of molded carbon resistant to attack by the electroplating solution, the

member of molded carbon having a base portion and a guide portion extending along the base portion and extending upwardly from the base portion, the base portion presenting surfaces exposed to the electroplating solution extending across the path of the strip and along opposite sides of the guide portion, a series of soluble anode elements of protective metal slidably mounted on and in electrical contact with each of the exposed inclined surfaces, each of the series of anode elements being slidable along and up the respective inclined surfaces while maintaining electrical contact therewith, the carbon member including an extension portion extending upwardly from an end of the base portion and extending above the electroplating solution and the path of the strip, and electri-

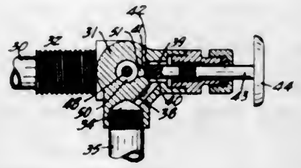


cally conductive metal embedded in the carbon member, the metal including a first portion embedded in the base portion extending along and below the inclined surfaces for supplying electrical current to the surfaces and to the anode elements positioned on the surfaces and including a second portion embedded in the extension portion of the carbon member and extending upwardly outside of the extension portion of the carbon member for connection to a source of electroplating current, and a protective covering on the base portion preventing electrical contact of the electroplating solution with the surfaces of the base portion exposed to the electroplating solution except the inclined surfaces which are in electrical contact with the anode elements.

2,610,147
CONTROL FOR WATER SOFTENING APPARATUS

Lynn G. Lindsay, St. Paul, Minn.

Application October 2, 1948, Serial No. 52,551
3 Claims. (Cl. 210—24)

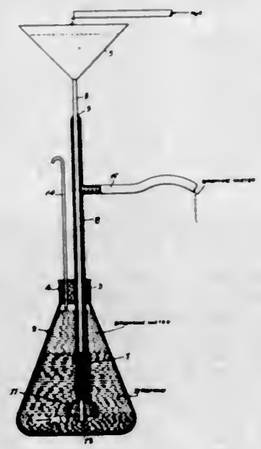


1. For water softening apparatus having a tank containing softening material, said tank having an outlet for liquid, a control comprising, a casing having an inlet port connected to said tank outlet, a service port connected to a service pipe and a drain port connected to a drain pipe, a valve member movable in said casing to selectively control the flow of liquid to said service or drain ports, a second valve member movable to restrict the flow of liquid to said drain pipe, a seat for said second valve member, a passage of fixed cross sectional area disposed to permit flow of liquid at a predetermined rate past said seat to the drain pipe when said second valve member is in closed position relative to said seat and means for actuating said second valve member to an open position relative to said seat to thereby increase the rate of flow to said drain pipe.

2,610,148
BROMINE WATER FEEDER

Daniel Lundy, Trona, Calif., assignor to American Potash & Chemical Corporation, Trona, Calif., a corporation of Delaware

Application August 29, 1949, Serial No. 112,893
1 Claim. (Cl. 210—29)



A bromine water feeder comprising, a container adapted to hold bromine and bromine water, a tube entering said container and discharging into the lower portion thereof, said tube constituting means for maintaining a fixed hydraulic head at the outlet of said tube, said tube including a capillary portion for limiting the rate of flow through said tube, a bell having a collecting rim within said container, the collecting rim being disposed at elevations slightly above the lower opening of said tube, and positioned to collect water discharged from said tube, and an outlet conduit for the water collected by said bell connected thereto.

2,610,149
METHOD AND MEANS OF PREVENTING FLUID LOSS THROUGH POROUS WALLS

Orien W. Van Dyke, Houston, Tex., assignor to Magnet Cove Barium Corporation, Houston, Tex., a corporation of Arkansas

No Drawing. Application August 10, 1949, Serial No. 109,612
8 Claims. (Cl. 252—8.5)

2. The method of preventing drilling fluid loss in earth bore holes which comprises introducing into the bore hole a quantity of shredded ripened flax straw comprising a fluffy mass of fine fibers having shives interspersed therethrough.

2,610,150

WAX LUBRICATING COMPOSITION

Edward C. O'Neil, Leominster, Mass.; Anna L. O'Neil administrator of said Edward C. O'Neil, deceased

Application October 16, 1948, Serial No. 54,980

2 Claims. (Cl. 252—26)

1. A wax lubricating composition consisting essentially of one pound of lubricating wax selected from the group consisting of paraffin and ceresin, one-half pound of metal powder and a dispersing agent in the amount of one hundred thirty-six grains of tartaric acid crystals, said metal powder being dispersed throughout the composition.

2,610,151

NONCORROSIVE OIL COMPOSITIONS

John Harold Putman, Enfield, James Scott, West Wimbledon, London, and Denis William Ervine, Teddington, England, assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 17, 1949, Serial No. 133,668. In Great Britain August 22, 1949

6 Claims. (Cl. 252—33.3)

4. A non-corrosive oil composition comprising mineral oil of lubricating viscosity, 0.05 to 5% by weight, based on the total composition, of sodium benzoate, a solubilizer comprising 0.02 to 20% of oil soluble metal petroleum sulfonate, and about 0.05 to 5% of a stabilizer.

2,610,152

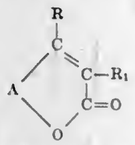
DETERGENT COMPOSITIONS CONTAINING AMINO-COUMARINS

Franz Ackermann, Binningen, Switzerland, assignor to Ciba Limited, a Swiss firm

No Drawing. Application June 3, 1947, Serial No. 752,278. In Switzerland June 14, 1946

13 Claims. (Cl. 252—117)

1. A detergent composition consisting essentially of a water-soluble, synthetic, organic, anion-active detergent selected from the group consisting of water-soluble soaps and synthetic, organic, non-soap, anion-active, sulfonated detergents, containing 0.1 to 5 per cent by weight of an amino coumarin corresponding as free base to the formula



wherein A is a radical of the benzene series in which two vicinal carbon atoms are members of the unsaturated lactone ring and R and R_1 are members selected from the group consisting of hydrogen and lower alkyl, the radical A containing a member selected from the group consisting of secondary amino groups and tertiary amino groups.

2,610,153

SKIN CLEANING COMPOSITION

Leonard L. McKinney and John C. Cowan, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application October 11, 1949, Serial No. 120,807

2 Claims. (Cl. 252—130)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A composition for cleaning the skin comprising from about 30% to 60%, by weight, of formaldehyde-treated dried meal comprising residual protein, said meal having been obtained as a byproduct from the extraction of oil and other material from soybean and being of a particle size not substantially greater than 20 mesh, and from about 40% to 70%, by weight, of a fatty acid soap.

2,610,154

LUMINESCENT ZINC SULFIDE PHOSPHORS AND METHOD OF PREPARING SAME

Joshua R. C. Brown, Jr., Chicago, Ill., assignor to General Electric Company, a corporation of New York

No Drawing. Application November 4, 1950, Serial No. 194,190

4 Claims. (Cl. 252—301.6)

1. The method of inducing luminescence in material chosen from the group consisting of zinc sulfide, cadmium sulfide, and mixtures thereof, which comprises forming a saturated solution of the material together with an activator therefor, and heating at temperatures between 250° C. and 374° C. until said material has attained a homogeneous structure.

2,610,155

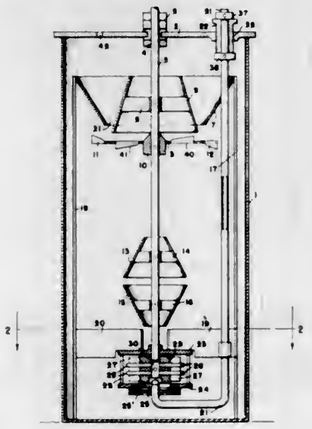
FOAM BREAKER FOR SUBMERGED CULTURE FERMENTOR

Harry Humfeld, Berkeley, Ernst Aeschlimann, Oakland, and John R. Hoffman, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

Original application September 12, 1947, Serial No. 773,722. Divided and this application November 14, 1950, Serial No. 197,816

2 Claims. (Cl. 252—361)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A foam breaker comprising a hollow upright shell providing an inner surface tapering upwardly, said shell being open at both ends, and a plate mounted below and spaced from, across and beyond the periphery of the lower end of the shell, said plate having inner perforations spaced around its center in the area subtended by the lower end of the shell, upper and lower vanes carried by the plate, each extending circumferentially at least part way across a perforation, the upper vanes being deflected upwardly, the lower vanes being deflected downwardly, the plate carrying outer upper and lower vanes in the plate area extending outside of the periphery of the lower end of the shell, the outer upper vanes being deflected upwardly and circumferentially in opposite direction to the upper inner vanes, the outer lower vanes being deflected downwardly and circumferentially in opposite direction to the inner lower vanes, means for mounting and rotating the shell and the plate about an upright axis.

2,610,156

USE OF NONIONIC SURFACE ACTIVE AGENT IN PREPARATION OF ANIONIC RESIN IN BEAD FORM

Lennart A. Lundberg, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 17, 1949, Serial No. 77,069

5 Claims. (Cl. 260—2)

1. A process which comprises dispersing an aqueous syrup of a partially condensed resin capable of being cured to a water-insoluble anion active product in an inert, organic non-solvent liquid which has a boiling point of at least 70° C. and the density of which is substantially equivalent to that of said aqueous resin syrup, with mechanical agitation in the presence of a nonionic surface active agent which is an ethylene oxide addition product, maintaining the dispersion at an elevated temperature until the resin gels, and finally curing the gelled resin obtained by heating, sufficient agitation being provided throughout the heating to prevent coagulation of the dispersion.

2,610,157

POROUS COMPOSITION UTILIZING N-CARBOXYLIC ACID ANHYDRIDES OF AMINO CARBOXYLIC ACIDS

Earl W. Gluesenkamp, Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application September 24, 1948, Serial No. 51,109

6 Claims. (Cl. 260—2.5)

1. Porous compositions prepared by mixing a vulcanizable rubbery polymer of the group consisting of natural rubbers and polymers of diolefinic monomers having four to five carbon atoms, vulcanizing agents, and a compound of the class consisting of the N-carboxylic acid anhydrides of α-amino carboxylic acids and the N-carboxylic acid anhydrides of β-amino carboxylic acids, and heating the mixtures to decompose the N-carboxylic acid anhydride generating polypeptides and gas cells, while simultaneously curing the rubber composition.

2,610,158

STABILIZATION OF LATEX AND STABILIZED COMPOSITIONS

Alan Montague Hall, Leicester, England, assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts

No Drawing. Application April 11, 1950, Serial No. 155,347. In Great Britain November 23, 1949

7 Claims. (Cl. 260—3)

1. A natural rubber latex composition wherein the individual rubber particles of an alkaline natural rubber latex have precipitated thereon the product of combining in situ at least one-half part by weight of casein and one part by weight of urea with formaldehyde, at least 1½ parts combined weight of casein and urea being associated with 100 parts by weight of rubber solids in said dispersion.

2,610,159

METHOD FOR THE PRODUCTION OF SYNTHETIC COMPOSITIONS UTILIZING HORN MEAL OR NEAT'S-FOOT MEAL

Rudolf Květoň, Strelske Hostice, Czechoslovakia

No Drawing. Application May 2, 1950, Serial No. 159,652. In Czechoslovakia November 15, 1949

2 Claims. (Cl. 260—6)

2. In a method for the production of synthetic molding compositions having a large number of intermolecular bridge linkages, the steps comprising admixing about 100 to 250 parts by weight of a substance selected from a group consisting of horn meal, neat's-foot meal, and mixtures thereof to about 160 to 360 parts by weight of a 10 to 40 per cent alkaline formaldehyde solution having a pH equal to from 7.5 to 10.0, kneading the mixture with about 20 to 100 parts of a substance selected from the group consisting of urea, melamine and mixtures thereof with a substance selected from the group consisting of thiourea, dicyandiamide, guanidine, and aniline while lowering the pH during the reaction to a pH equal to from 3.5 to 6.3, and drying the mixture.

2,610,160

WALLBOARD CONTAINING A PHENOL FORMALDEHYDE RESIN AND CATTAIL FIBERS

Estelle M. S. Nuncio, New Orleans, La.

No Drawing. Application February 14, 1951, Serial No. 210,993

4 Claims. (Cl. 260—17.2)

4. A wall board composition comprising cattail fibers embedded in a fast setting resin from the group consisting of phenol-formaldehyde and resorcinol-formaldehyde.

2,610,161

MODIFIED DRYING OILS

Orville L. Polly, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application January 8, 1949, Serial No. 69,982

13 Claims. (Cl. 260—23.5)

1. A modified drying oil prepared by copolymerizing between 20% and 80% by weight of a drying oil selected from the class consisting of raw drying oils, dehydrated castor oils, synthetic drying oils consisting of the dehydroxylated glycerol and pentaerythritol esters of alpha hydroxy acids and estolides and mixtures thereof derived from oxidized paraffin wax, and synthetic drying oils consisting of glycerol and pentaerythritol esters of unsaturated fatty acids having 10 to 20 carbon atoms and containing at least 2 unsaturated groups per molecule and 20% to 80% by weight of a mixture containing between 40% and 95% by weight of a compound selected from the class consisting of styrene, alpha methyl styrene and the methyl, ethyl and propyl ring substituted styrenes and 60% to 5% by weight of an ester selected from the group consisting of the diallyl and dimethallyl esters of saturated aliphatic dicarboxylic acids having more than 3 and less than about 7 carbon atoms in the acid molecule, said copolymerization being effected at a temperature between about 250° F. and 600° F.

2,610,162

ADHESIVE CEMENT SOLUTION CONTAINING A SULFUR-CURED RUBBER

Harry J. Hoffman, Detroit, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application February 20, 1948, Serial No. 9,949
7 Claims. (Cl. 260—27)

1. Method of making a stable, sprayable viscous liquid adhesive cement composition comprising: (1) blending together 100 parts by weight of a vulcanizable gasoline-soluble conjugate-diolefin hydrocarbon rubbery polymer, 15–120 parts of a hydrocrabon-soluble tackifier resin compatible with said polymer, and an excess of a sulfur-curing agent over the amount normally required for sulfur-curing of said rubbery polymer, in the absence of said resin, to insolubility in gasoline, (2) heating the blend for a time and at a temperature sufficient, in the absence of said resin, to cause sulfur-curing of said rubbery polymer to insolubility in gasoline, and (3) dispersing the heated blend, together with additional hydrocarbon-soluble and polymer-compatible resin, in a volatile hydrocarbon solvent, the amount of said resin added to the blend subsequent to the sulfur-curing step being at least approximately as great as that added prior to said sulfur-curing step.

2,610,163

EASILY PROCESSED POLYMERIC COMPOUNDS AND METHOD OF MAKING SAME

Theodore A. Te Grotenhuis, Olmsted Falls, Ohio

No Drawing. Application December 17, 1948, Serial No. 65,968
8 Claims. (Cl. 260—29.7)

1. A curable, dried mass of masticated coagulum from a latex comprising an aqueous dispersion of an unmasticated vulcanized copolymer of butadiene and styrene and an aqueous dispersion of a plastic polymer of a conjugated diolefinic compound of less than six aliphatic carbon atoms, said coagulum having a curing agent dispersed therein and having a plasticity of no more than 40 when measured under standard conditions on a Mooney plastometer, whereby it may be shaped and cured in shaped form.

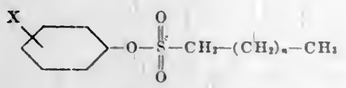
2,610,164

COMPOSITIONS OF VINYL CHLORIDE RESINS AND AROMATIC ESTERS OF SULFONATED ALKANES

Earl W. Gluesenkamp, Centerville, and Joachim Dazzi, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 20, 1949, Serial No. 111,562
7 Claims. (Cl. 260—30.8)

1. A plasticized vinyl chloride resin, which comprises a vinyl chloride polymer containing intimately dispersed therein an ester of the following structural formula:



wherein X is a radical of the group consisting of hydrogen, chlorine and methyl, and wherein n is a whole number from eight to twelve.

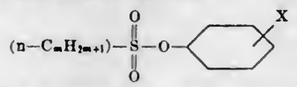
2,610,165

COMPOSITIONS OF VINYL CHLORIDE RESINS AND AROMATIC ESTERS OF SULFONATED ALKANES

Earl W. Gluesenkamp, Centerville, and Joachim Dazzi, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 20, 1949, Serial No. 111,563
12 Claims. (Cl. 260—30.8)

1. A plasticized vinyl chloride resin, which comprises a vinyl chloride polymer which contains intimately dispersed therein a compound having the structural formula:



wherein X is a radical of the group consisting of hydrogen, chlorine and methyl, and wherein m is a whole number from 19 to 21, inclusive.

2,610,166

TREATMENT OF EQUIPMENT

Harvey L. Parry, Concord, and Donald C. Waldman, Lafayette, Calif., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application April 2, 1951, Serial No. 218,906
14 Claims. (Cl. 260—33.4)

1. The method of recovering polymeric deposits formed in equipment during the processing of alpha,beta-unsaturated aliphatic aldehydes at elevated temperatures therein, which comprises contacting said polymeric deposits within said equipment with a normally liquid solvent consisting essentially of at least one hydroxy compound of the class consisting of the glycols and halohydrins at a temperature of from about 50° C. to that of the boiling temperature of said solvent, thereby dissolving at least a substantial part of said polymeric deposit in said solvent, and withdrawing resulting solution comprising said solvent and said polymeric deposit from said equipment.

2,610,167

PIGMENTED SILICONE ELASTOMERS

Theodore A. Te Grotenhuis, Olmsted Falls, Ohio

No Drawing. Application December 7, 1946, Serial No. 714,919
18 Claims. (Cl. 260—37.5)

16. A composition comprising a vulcanizable di-organosilicon elastomer having dispersed therethrough a finely divided silica which has on surface portions thereof a residue from the treatment of said pigment with a silicon compound containing attached directly to silicon a water-hydrolyzable group, said silicon compound being selected from the group consisting of silicon tetrachloride and organo-silicon compounds.

2,610,168

POLYESTERS STABILIZED WITH SUBSTITUTED P-BENZOQUINONES

Thomas F. Anderson, Huntsville, Ala., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application August 17, 1951, Serial No. 242,417
11 Claims. (Cl. 260—45.4)

1. A stabilized thermosetting composition, comprising (1) a polymerizable unsaturated alkyd whose molecule contains a plurality of polymerizable reactive Δ 2,3-enedioyl groups; (2) a catalyst of the class consisting of organic peroxides and organic ozonides; and (3) an agent for increasing the stability of the composition at atmospheric temperatures without proportionately decreasing the curability of the composition, of the class consisting of substituted p-benzoquinones having not more than two nuclear substituents and having from six to eleven carbon atoms, any nuclear substituent other than an alkyl radical consisting of a halogen atom having an atomic weight between 35 and 80, and any substituents replacing oxygen atoms being of the class consisting of (*a*) from one to two hydroximino radicals and (*b*) from one to two chlorimino radicals.

2,610,169

POLYMERIZATION OF THERMOPLASTIC SILOXANES

James Franklin Hyde and William Herbert Daudt, Corning, N. Y., assignors to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application October 27, 1948, Serial No. 56,901
4 Claims. (Cl. 260—46.5)

1. A thermosetting composition of matter comprising a hydroxyl-free, thermoplastic organo polysiloxane in which the organic radicals are selected from the group consisting of methyl and aryl radicals, said siloxane having a degree of substitution of from 0.9 to 1.8 organic radicals per silicon atom, and a metal salt of a carboxylic acid in which salt the metal is selected from the group consisting of alkali metals and lead, said salt being present in amount of from one metal atom per 10,000 silicon atoms to one metal atom per 50 silicon atoms.

2,610,170

USE OF PETROLEUM SULFONATES IN PREPARATION OF RESINOUS CONDENSATION PRODUCTS IN BEAD FORM

Lennart A. Lundberg, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 17, 1949, Serial No. 77,067
5 Claims. (Cl. 260—49)

1. A process which comprises dispersing an aqueous syrup of a partially condensed resin capable of being cured to a water-insoluble ion active product in an inert organic non-solvent liquid which has a boiling point of above about 70° C. and the density of which is substantially equivalent to that of said aqueous resinous syrup, with mechanical agitation in the presence of an anionic surface active agent which is a petroleum sulfonate, maintaining the dispersion at an elevated temperature until the resin gels, and finally curing the gelled resin obtained by heating, sufficient agitation being maintained throughout the heating to prevent coagulation of the dispersion.

2,610,171

PREPARATION OF NONNUCLEARLY SULFONATED PHENOL-FORMALDEHYDE RESIN IN BEADED FORM

Arthur S. Nyquist, Cos Cob, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 17, 1949, Serial No. 77,071
8 Claims. (Cl. 260—49)

1. A process which comprises dispersing an aqueous syrup of a partially condensed resin capable of being cured to a water-insoluble product which is a condensation product of phenol and formaldehyde containing omega sulfonic acid groups, in an inert, organic non-solvent liquid which has a boiling point of at least 120° C. and the density of which is substantially equivalent to that of said aqueous resin syrup, by mechanical agitation in the presence of a cationic surface active agent selected from the group consisting of quaternary ammonium salts containing an alkyl group of from 8 to 18 carbon atoms and hydroxyalkyl amine salts containing an alkyl group of from 8 to 18 carbon atoms, heating the dispersion azeotropically to remove water from the dispersed resin globules until the temperature of gelation of the resin is attained, and finally curing the gelled resin globules obtained by heating, sufficient agitation being provided throughout the heating to prevent coagulation of the dispersed globules.

2,610,172

PROCESS OF CONDENSING A 4-AMINO POLYARYL METHANE AND ACETONE

Joseph R. Ingram, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 2, 1949, Serial No. 102,959
6 Claims. (Cl. 260—65)

1. The process of preparing an antioxidant composition which comprises heating at 120–125° C. under atmospheric pressure in the presence of a condensation catalyst acetone and a 4-amino polyaryl methane in which one hydrogen of methane is substituted by a 4-amino phenyl group and at least one other hydrogen is substituted by a monocyclic aryl hydrocarbon group, any remaining valences of the methane carbon being satisfied by hydrogen, removing excess acetone and water of condensation.

2,610,173

COPOLYMERIZING ACRYLONITRILE AND VINYLIDENE CHLORIDE AT CONSTANT REFLUX TEMPERATURE

George E. Ham, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 31, 1948, Serial No. 47,157
6 Claims. (Cl. 260—85.5)

1. A method of preparing copolymers of 80 to 98 per cent of acrylonitrile and from two to 20 per cent of vinylidene chloride which comprises adding the monomers in fixed relative proportions to an aqueous medium in the presence of a water-soluble peroxy compound and a wetting agent at the reflux temperature of the aqueous medium, said addition being made continuously at a varying rate such that the reflux temperature remains constant, and removing the polymerized product from the reaction medium after the polymerization reaction has ended.

2,610,174

COPOLYMERS OBTAINED FROM TRIFLUOROCHLORETHYLENE AND METHYL METHACRYLATE

Frank Gardiner Pearson, Bryn Mawr, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 1, 1948, Serial No. 52,415
1 Claim. (Cl. 260—86.3)

A copolymer of trifluorochlorethylene and methyl methacrylate containing about 70.6 mole

per cent of methyl methacrylate in the copolymer molecule, and the balance trifluorochlorethylene, said copolymer having a softening point of 120° C. and a melting point of 260° C.

2,610,175

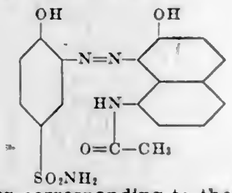
COMPLEX CHROMIUM COMPOUNDS OF MONOAZO-DYESTUFFS

Willy Widmer, Bottmingen, and Arthur Buehler, Rheinfelden, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

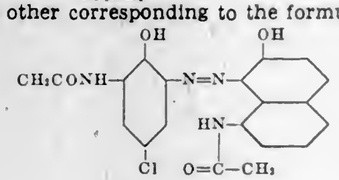
No Drawing. Application October 31, 1950, Serial No. 193,308. In Switzerland November 18, 1949

13 Claims. (Cl. 260—145)

13. The chromium compound which contains two different monoazo-dyestuffs in a complex in which the proportion of the number of chromium atoms in complex combination to the number of monoazo-dyestuff molecules is about 1:2, one of the monoazo-dyestuffs present in the complex corresponding to the formula



and the other corresponding to the formula



2,610,176

PREPARATION OF RIBOFLAVIN PHOSPHATE INTERMEDIATES

Leo A. Flexser, Upper Montclair, and Walter G. Farkas, Nutley, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application July 15, 1950, Serial No. 174,122

9 Claims. (Cl. 260—205)

1. A process of phosphorylation which comprises reacting a member selected from the group consisting of 1-D-1'-ribitylamino-3,4-dimethylbenzene and 1-D-1'-ribitylamino-6-phenylazo-3,4-dimethyl-benzene with a member selected from the group consisting of the two acids represented by the formulae $(HO)_2POCl$ and $HOPOCl_2$.

2,610,177

RIBOFLAVIN MONOPHOSPHORIC ACID ESTER SALTS AND METHOD OF PREPARATION

Leo A. Flexser, Upper Montclair, and Walter G. Farkas, Nutley, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application November 8, 1950, Serial No. 194,734

15 Claims. (Cl. 260—211.3)

1. A process which comprises reacting in an aqueous medium a mixture containing riboflavin-5'-monophosphoric acid ester and positional phosphate isomers of said riboflavin monophosphoric acid ester with an amine selected from the group consisting of diethanolamine and morpholine, and separating the corresponding amine salt of riboflavin-5'-monophosphoric acid ester from the resulting solution, by treating said solution with a water-miscible solvent to fractionally crystallize the amine salt of riboflavin-5'-monophosphoric acid ester therefrom.

2,610,178

METHOD OF PRODUCING RIBOFLAVYL PHOSPHATES

Leo A. Flexser, Upper Montclair, and Walter G. Farkas, Nutley, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application January 26, 1951, Serial No. 208,084

11 Claims. (Cl. 260—211.3)

6. A process which comprises reacting riboflavyl phosphate which comprises reacting riboa mono lower alkyl dichlorophosphate and a dilower alkyl monochlorophosphate and hydrolyzing the resulting reaction product so as to produce riboflavin phosphate.

2,610,179

PHOSPHORYLATION OF RIBOFLAVIN

Leo A. Flexser, Upper Montclair, and Walter G. Farkas, Nutley, N. J., assignors to Hoffmann-La Roche Inc., Nutley, N. J.

No Drawing. Application September 28, 1951, Serial No. 248,869

18 Claims. (Cl. 260—211.5)

1. A process of phosphorylating riboflavin which comprises reacting riboflavin with a member selected from the group consisting of the acids represented by the formulae $(HO)_2POX$ and $HOPOX_2$, wherein X is a halogen selected from the group consisting of chlorine, bromine, and fluorine.

2,610,180

ETHYL OXYETHYL CELLULOSE DERIVATIVES AND METHOD OF PREPARATION OF THE SAME

Eugene D. Klug, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 31, 1951, Serial No. 218,697

7 Claims. (Cl. 260—231)

6. As a new composition of matter a modified ethyl oxyethyl cellulose having an oxyethyl degree of substitution within the range of 0.3 to 0.9 and a total ethoxyl content corresponding to a degree of substitution within the range of 2.6 to 2.9 and characterized by solubility in organic solvents and tolerance for aliphatic hydrocarbons substantially greater than ethyl cellulose of the same ethoxyl content.

2,610,181

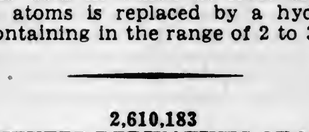
SERIES OF NITROFURAN COMPOUNDS COMPRISING THE AZOMETHINES OF 5-NITRO-2-ACYL FURANS WITH 1-AMINO-HYDANTOINS

Kenyon J. Hayes, Norwich, N. Y., assignor to Eaton Laboratories, Inc., Norwich, N. Y., a corporation of New York

No Drawing. Application May 29, 1950, Serial No. 165,095

6 Claims. (Cl. 260—240)

1. A compound having chemotherapeutic activity and resistance to metabolic destruction and represented by the formula:



in which:
X represents a member of the group consisting of O and S
R represents a member of the group consisting of hydrogen and a lower alkyl radical containing from 1 to 4 carbon atoms
R' represents a member of the group consisting of hydrogen and a lower alkyl radical containing from 1 to 6 carbon atoms
R'' represents a member of the group consisting of hydrogen and a lower alkyl radical containing from 1 to 6 carbon atoms
and in which:
R+R'' contain not more than 6 carbon atoms, and
R+R'+R'' contain not more than 6 carbon atoms.

2,610,182

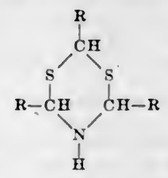
HYDROCARBON THIOPHOSPHORIC ACID SALTS OF THIALDINE AND CERTAIN HOMOLOGUES

John P. McDermott, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 22, 1949, Serial No. 100,741

5 Claims. (Cl. 260—243)

1. As a new composition of matter, the salt of a compound of the general formula



wherein R is a C_1 to C_{10} alkyl radical, and a thiophosphoric acid in which at least one of the hydrogen atoms is replaced by a hydrocarbon radical containing in the range of 2 to 30 carbon atoms.

2,610,183

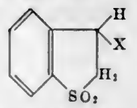
3-SUBSTITUTED DERIVATIVES OF 2,3-DIHYDROTHIANAPHTHENE-1-DIOXIDE

Wilbur H. McKellin and Frederick G. Bordwell, Evanston, Ill., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application September 26, 1949, Serial No. 117,938

4 Claims. (Cl. 260—247.1)

1. 2,3-dihydrothianaphthene-1-dioxide compounds having the general formula:



wherein X is a secondary amino group selected from the group consisting of dialkyl amino, piperidino and morpholino radicals.

2,610,184

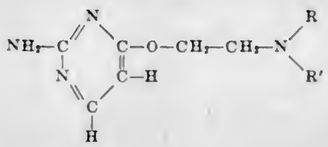
2-AMINO-4-DIALKYLAMINOETHOXY-PYRIMIDINES

William Oroshnik, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation, a corporation of New Jersey

Application November 7, 1950, Serial No. 194,559

4 Claims. (Cl. 260—256.4)

1. A compound having the structural formula



in which R and R' each represent an alkyl radical selected from the group consisting of isopropyl, secondary butyl, and normal butyl radicals.

2,610,185

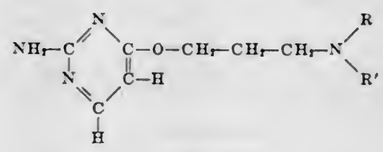
2-AMINO-4-DIALKYLAMINOPROPOXY-PYRIMIDINES

William Oroshnik, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation, a corporation of New Jersey

Application November 7, 1950, Serial No. 194,560

4 Claims. (Cl. 260—256.4)

1. A compound having the structural formula



in which R and R' each represent an alkyl group having at least three but not more than five carbon atoms.

2,610,186

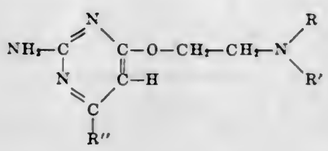
2-AMINO-4-DIALKYLAMINOETHOXY-PYRIMIDINES

William Oroshnik, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation, a corporation of New Jersey

Application November 7, 1950, Serial No. 194,561

6 Claims. (Cl. 260—256.4)

1. A compound having the structural formula



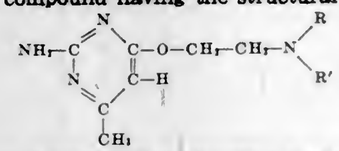
in which R and R' each is selected from the group of alkyl radicals consisting of an isobutyl radical and alkyl radicals having at least five and less than nine carbon atoms, and in which R'' is selected from the group of radicals consisting of hydrogen and methyl.

2,610,187
2-AMINO-4-DIALKYLAMINOETHOXY-6-METHYLPYRIMIDINES

William Oroshnik, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation, a corporation of New Jersey

Application November 7, 1950, Serial No. 194,562
5 Claims. (Cl. 260—256.4)

1. A compound having the structural formula



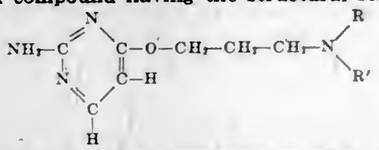
in which R and R′ each represent an alkyl radical selected from the group consisting of normal propyl, isopropyl, secondary butyl, and normal butyl radicals.

2,610,188
2-AMINO-4-DIALKYLAMINOPROPOXY-PYRIMIDINES

William Oroshnik, Plainfield, N. J., assignor to Ortho Pharmaceutical Corporation, a corporation of New Jersey

No Drawing. Application November 7, 1950, Serial No. 194,563
4 Claims. (Cl. 260—256.4)

1. A compound having the structural formula



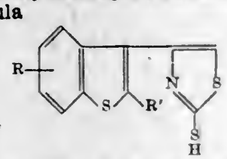
in which R and R′ each represent an alkyl radical selected from the group consisting of methyl and ethyl radicals.

2,610,189
THIANAPHTHYLMERCAPTOTHIAZOLES

William S. Emerson and Tracy M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 21, 1950, Serial No. 196,953
16 Claims. (Cl. 260—302)

1. Thianaphthylmercaptothiazoles having the general formula



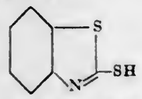
in which R and R′ are selected from the class consisting of hydrogen, chlorine, bromine and alkyl radicals of from 1 to 4 carbon atoms.

2,610,190
PREPARATION OF BENZOTHIAZOLE THROUGH PYROLYSIS

Tsai Hsiang Chao and Edward Martin Wharton, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application March 12, 1949, Serial No. 81,214
4 Claims. (Cl. 260—304)

1. The process of preparing benzothiazole which comprises the steps of subjecting a member of the group consisting of 2-mercaptobenzothiazole of the formula



its heavy metal salts and the corresponding disulfide to a temperature of from 200°–350° C., in the presence of powdered metallic iron of at least about 25% by weight of the mercaptobenzothiazole, the temperature being sufficiently high to cause distillation, continuing the distillation until it substantially ceases, and collecting the distillate.

2,610,191
TETRA (CARBOXY PHENYL) THIOPHENE AND METHOD OF MAKING SAME

William G. Toland, Jr., Richmond, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application September 26, 1949, Serial No. 117,943
14 Claims. (Cl. 260—329)

13. Tetra (carboxy phenyl) thiophene.

2,610,192
METHOD FOR PRODUCING HYDROXY SULFOLENES

John E. Mahan, Bartlesville, Okla., and Sig C. Fauske, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application October 21, 1949, Serial No. 122,858
12 Claims. (Cl. 260—332.1)

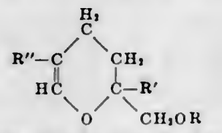
1. The process which comprises interacting a halo-hydroxy sulfolane with a compound selected from the group consisting of ammonia, primary amines and secondary amines and recovering at least one of an hydroxy sulfolene and an amino-hydroxy sulfolane as a product of the reaction.

2,610,193
CYCLIC ORGANIC COMPOUNDS

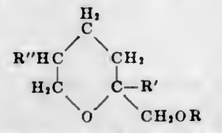
Richard R. Whetstone, Orinda, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 1, 1949, Serial No. 102,721
16 Claims. (Cl. 260—333)

1. As a new chemical compound, a member of the class consisting of (1) the dihydropyran derivatives having structures corresponding to the formula



when R represents one of the class consisting of hydrogen, hydrocarbyl, and acyl residues of carboxylic acids, R′ represents hydrocarbyl, and R″ represents one of the class consisting of hydrogen and hydrocarbyl, and (2) the tetrahydropyran derivatives having structures corresponding to the formula



when R represents one of the class consisting of

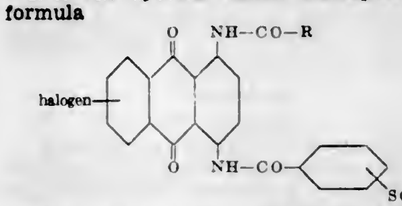
hydrogen, hydrocarbyl, and acyl residues of carboxylic acids, R′ represents hydrocarbyl, and R″ represents one of the class consisting of hydrogen and hydrocarbyl.

2,610,194
VAT DYESTUFFS

Walter Jenny, Reinach, near Basel, and Walter Kern, Sissach, Switzerland, assignors to Ciba Limited, Basel, Switzerland

No Drawing. Application July 12, 1948, Serial No. 38,186. In Switzerland July 17, 1947
11 Claims. (Cl. 260—372)

1. A vat dyestuff which corresponds to the formula



wherein the halogen atom is attached to a β-position and R stands for a mononuclear aryl radical free from groupings containing the radical —SO_2 and wherein the alkyl radical contains at most 6 carbon atoms.

2,610,195
RECOVERY OF UNSAPONIFIABLES FROM CONCENTRATES CONTAINING THE SAME

Arthur Ira Gebhart, Union, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application May 4, 1949, Serial No. 91,421
8 Claims. (Cl. 260—397.2)

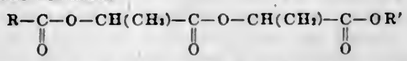
1. A process of recovering cholesterol from tallow fatty acid still bottoms which comprises saponifying said bottoms to form water soluble soaps of the saponifiable material therein; purifying said saponified bottoms by washing, graining and settling to obtain a settled soap; preparing a dilute aqueous solution of said settled soap; extracting said settled soap solution with ethyl acetate to obtain a wet ethyl acetate solution of sterols; removing at least substantially all the water from said solution by azeotropic distillation; reacting cholesterol in said solution wth oxalic acid under substantially anhydrous conditions to form a complex; separating said complex; and decomposing said complex to recover said cholesterol.

2,610,196
ESTERS OF ACYLATED HYDROXYCARBOXYLIC ACIDS

Charles H. Fisher, New Orleans, La., and Martin L. Fein, Riverside, N. J., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 27, 1950, Serial No. 152,269
11 Claims. (Cl. 260—410.9)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of preparing an ester of an acylated lactyllactic acid corresponding to the general formula



wherein R and R′ are alkyl radicals containing from 5 to 17 and from 2 to 12 carbon atoms respectively, which comprises heating a molar excess of alkyl lactate having from 2 to 12 carbon atoms in the alkyl group with a saturated aliphatic monocarboxylic acid having from 6 to 18 carbon atoms, and concurrently removing the water formed in the reaction by distillation the heating being at a temperature of at least about 100° C. and in the presence of an acidic esterification catalyst and an organic solvent water entraining agent, the heating being for several hours, to form a distillation residue containing said ester.

2,610,197
PRODUCTION AND REFINING OF ORGANIC ACIDS

Orin D. Cunningham, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application July 5, 1947, Serial No. 759,144
27 Claims. (Cl. 260—413)

1. A method for separating organic hydroxy acids from mixtures with other classes of organic acids having from about 6 to 40 carbon atoms per molecule which comprises contacting said acid mixture with an aqueous borate extractant containing a water-soluble borate salt and separating an aqueous phase containing said hydroxy acids solubilized by said borate extractant from said other classes of organic acids.

2,610,198
ORGANOSILYL AMIDES

Leo Harry Sommer, State College, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application April 13, 1950, Serial No. 155,781
5 Claims. (Cl. 260—448.2)

1. Compositions of the general formula

$$R(CH_3)_2Si(CH_2)_nCONH_2$$

in which R represents a radical of the group consisting of methyl and phenyl and n has an average value of from 2 to 5.

2,610,199
ORGANOSILYL ACYL HALIDES

Leo Harry Sommer, State College, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application April 13, 1950, Serial No. 155,782
5 Claims. (Cl. 260—448.2)

1. Compositions of the general formula

$$R(CH_3)_2Si(CH_2)_nCOCl$$

in which R represents a radical of the group consisting of methyl and phenyl and n has an average value of from 2 to 5, inclusive.

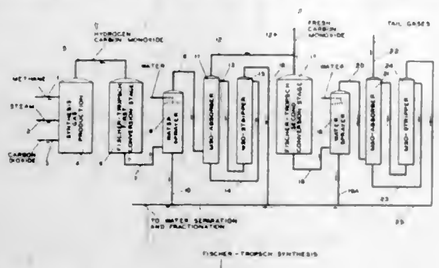
2,610,200
SYNTHESIS OF HYDROCARBONS

Alfred Clark, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application May 15, 1946, Serial No. 669,792
4 Claims. (Cl. 260—449.6)

1. A process for the synthesis of hydrocarbons which comprises contacting a gas mixture consisting essentially of carbon monoxide and hydrogen as the reactive materials with a cobalt-containing catalyst in a first conversion stage under conversion conditions of temperature, pressure and flow rate, said carbon monoxide and hy-

drogen being in the proportion of from 1 to 3 volumes of hydrogen per volume of carbon monoxide and effecting not more than 70 per cent conversion of carbon monoxide, separating C_3+ products of reaction from the effluent, recovering a residual gas containing unreacted carbon monoxide and hydrogen together with gases inert in the synthesis reaction wherein the volume per cent carbon monoxide and the hydrogen to carbon monoxide ratio are less than the carbon monoxide concentration and the hydrogen to carbon monoxide ratio in the feed gas to the first conversion stage, adding additional carbon monoxide to said residual gas to raise the volume per cent of carbon monoxide to that value which is present in the feed gas to the first conversion stage and without increasing the hydrogen concentration in said residual gas, and introducing the resulting gas mixture into a second stage conversion zone under the same conditions as the first stage conversion zone whereby additional hydrocarbons in yields equal to those obtained from the first stage are synthesized.



2,610,201

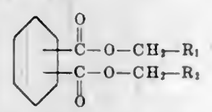
NONYL PHTHALATES

John T. Rutherford, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application April 9, 1949, Serial No. 86,601

2 Claims. (Cl. 260—475)

1. Di-nonyl phthalate mixtures having a formula of the type



wherein R_1 and R_2 are alkyl radicals containing 8 carbon atoms and possessing chain structure found in copolymer mixtures of n-butene-1 and n-butene-2.

2,610,202

ESTERS OF POLYMERS OF MALEIC ANHYDRIDE AND BETA-MERCAPTOETHANOL AND PROCESS

Milton Kosmin and John Mann Butler, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 24, 1949, Serial No. 101,248

10 Claims. (Cl. 260—481)

1. A composition of matter made by the esterification of polymers of maleic anhydride and β-mercaptoethanol with primary normal alcohols having from twelve to eighteen carbon atoms, said polymers containing an average of at least two maleic anhydride units per molecule.

2,610,203

PROCESS OF PRODUCING ALDEHYDE ESTERS

Hugh J. Hagemeyer, Jr., and David C. Hull, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 13, 1949, Serial No. 132,799

5 Claims. (Cl. 260—483)

1. The process which comprises reacting ethyl crotonate with carbon monoxide and hydrogen, said reaction being carried out in the presence of a cobalt-containing catalyst, carried in a lower aliphatic alcohol liquid medium, and under temperature and pressure conditions between 130–160° C. and 1600–3500 p. s. i., whereby gamma-formyl ethyl butyrate is formed.

2,610,204

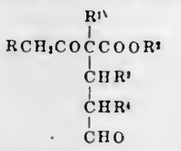
SYNTHESIS OF 1,5-KETOALDEHYDES

Owen A. Moe and Donald T. Warner, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware

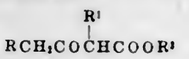
No Drawing. Application January 25, 1947, Serial No. 724,460

5 Claims. (Cl. 260—483)

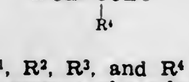
1. Process of making ketoaldehydes having the formula



in which R, R^1, R^2, R^3, and R^4 are selected from the group consisting of hydrogen and low alkyl groups, which comprises reacting a ketone having the following formula:



with an alpha, beta unsaturated aldehyde having the formula:



in which R, R^1, R^2, R^3, and R^4 are as above defined, in the presence of a solvent diluent, at a low temperature and in the presence of a catalytic amount of an alkaline catalyst.

2,610,205

ESTER COMPOSITION

Hastings S. Trigg, West Hempstead, N. Y., and Henry D. Norris, Woodbury, and Ralph V. White, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application February 2, 1949, Serial No. 74,242

22 Claims. (Cl. 260—484)

1. A process for the production of an ester reaction product, which comprises reacting a trialkylamine with a dicarboxylic acid which does not form an anhydride readily, in a molar ratio of at least one mol of said trialkylamine per mol of said dicarboxylic acid, to form a trialkylammonium acid salt of said dicarboxylic acid, and esterifying said trialkylammonium acid salt of said dicarboxylic acid with a primary, aliphatic, monohydric alcohol in a molar ratio of about 1:1, respectively.

2,610,206

MANUFACTURE OF METHYL LACTATE

Hugh Campbell Highet and Francis Edward Salt, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application October 1, 1949, Serial No. 119,193. In Great Britain October 9, 1948

7 Claims. (Cl. 260—484)

1. Process for the manufacture of methyl lactate which comprises heating lactic acid containing 2 to 50% of water, and methanol at a temperature between 180° and 235° C. and at a pressure sufficient to keep a major part of the methanol in the liquid phase and maintaining the reaction mixture at said temperature for between about 30 to 60 minutes.

2,610,207

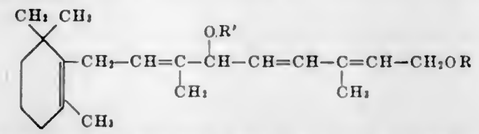
PROCESS FOR THE MANUFACTURE OF PENTAENES

Herbert Lindlar and Rudolf Rüegg, Basel, Switzerland, assignors to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 16, 1950, Serial No. 162,386. In Switzerland September 30, 1949

12 Claims. (Cl. 260—491)

1. Process of preparing pentaenes which comprises reacting in the cold a compound of the formula



wherein R is selected from the group consisting of acyl and lower alkyl and R′ is selected from the group consisting of acyl and hydrogen, dissolved in a halogenated hydrocarbon having a large dipole moment in the range of from about 1.18×10^{-18} e. s. u.×cm. to about 1.74×10^{-18} e. s. u.×cm. and which is liquid under the operating conditions, with an aqueous hydrogen halide selected from the group consisting of hydrogen chloride and hydrogen bromide, and treating the resulting halogen compound, dissolved in a halogenated hydrocarbon having a large dipole moment in the range of from about 1.18×10^{-18} e. s. u.×cm. to about 1.74×10^{-18} e. s. u.×cm. and which is liquid under the operating conditions, with a dehydrohalogenating agent selected from the group consisting of water and basic substances.

2,610,208

PROCESS FOR MAKING PENTAENES

Joseph Donald Surmatis, Pompton Plains, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 16, 1951, Serial No. 226,735

2 Claims. (Cl. 260—491)

1. A process of preparing vitamin A acetate which comprises subjecting 1-acetoxy-3,7-dimethyl-6-hydroxy-9-(2′,6′,6′ - trimethyl - cyclohexene-1′-yl)-nonatriene-2,4,7, in solution in a solvent selected from the group consisting of methylene chloride and chloroform, to the action of from about 2.9 to about 3.5 molar proportions of aqueous hydrobromic acid having a concentration between about 47.9 per cent and about 51.9 per cent, for a period of from about 5 to about 7 minutes and at temperatures between about minus 25° C. and about minus 15° C.; stirring with from about 2.7 to about 3.3 liters of water per mol of 1-acetoxy-3,7-dimethyl-6-hydroxy-9-(2′,6′,6′-trimethyl - cyclohexene - 1′ - yl)-nonatriene-2,4,7 for a period of from about 5 to about 10 minutes; and then quickly separating the organic layer and quickly subjecting it to dehydrobromination by treating it for a period of from about 1 to about 3 hours with at least one molar proportion of an aqueous solution of an alkali selected from the group consisting of sodium bicarbonate and potassium bicarbonate in a concentration of about 5 per cent.

2,610,209

SOLVENT EXTRACTION OF NAPHTHENIC ACIDS

Earl M. Honeycutt, Claymont, Del., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application February 24, 1950, Serial No. 146,137

9 Claims. (Cl. 260—514)

1. In the purification of naphthenic acids by solvent extraction in a countercurrent extraction zone comprising an extract-enriching section at one end and a raffinate-enriching section at the other, the method which comprises feeding crude naphthenic acids, containing hydrocarbon oil, in heated condition to said zone intermediate said sections, feeding into the raffinate-enriching end a heated solvent selective for naphthenic acids but having incomplete miscibility therewith and composed mainly of a water-miscible polar organic liquid, flowing the solvent through said raffinate-enriching section countercurrent to the feed and thence through said extract-enriching section, withdrawing from the raffinate-enriching section end a raffinate phase rich in hydrocarbon oil, cooling the solvent phase flowing in said extract-enriching section to precipitate a portion of the contained extract, said precipitated extract flowing countercurrent to the solvent as reflux for the extract-enriching operation, and withdrawing solvent phase from the extract-enriching section end of said zone.

2,610,210

HALO - HYDROXY - NAPHTHOYL - ALKANOIC ACIDS AND THE PRODUCTION THEREOF

Robert R. Burtner, Skokie, and John M. Brown, Chicago, Ill., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application March 4, 1949, Serial No. 79,732

10 Claims. (Cl. 260—520)

1. A halo-hydroxy-naphthoylalkanoic acid, wherein the alkanoic acid moiety contains from three to nine carbon atoms and wherein the halo substituent is a halogen atom of atomic number greater than 9 and less than 53.

2,610,211

PREPARATION OF ARYL MONO-CARBOXYLIC ACIDS

John L. Darragh and Robert J. Miller, Berkeley, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Original application October 4, 1947, Serial No. 777,970. Divided and this application December 22, 1950, Serial No. 202,384

5 Claims. (Cl. 260—524)

1. A process for producing benzene mono-carboxylic acids which comprises intimately contacting a mixture of a mono-chloromethyl benzene containing not more than two chlorine atoms in the chloromethyl group and aqueous sodium hydroxide with a free oxygen-containing gas at a temperature in the range 300 to 400° C.,

the quantity of free oxygen-containing gas brought into intimate contact with the mixture being such that its free oxygen content is approximately equivalent to the monochloromethyl benzene content of the mixture.

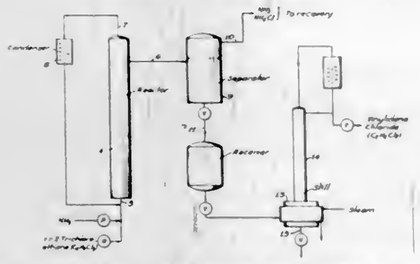
2,610,212
SYNTHESIS OF AMINO ACIDS
Don E. Floyd, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
No Drawing. Application April 24, 1950, Serial No. 157,851
7 Claims. (Cl. 260—534)

1. Process for the production of amino acids by the reductive amination of compounds selected from the group consisting of aliphatic keto acids containing from 5 to 19 carbon atoms, and salts thereof, which comprises reacting said compound with hydrogen and ammonia at a hydrogen pressure of at least 200 pounds per square inch at a temperature within the approximate range of 50–200° C. in the presence of a nickel hydrogenation catalyst employed in a low molar ratio.

2,610,213
MANUFACTURE OF DDT
Norman E. Searle, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 29, 1945, Serial No. 631,795
2 Claims. (Cl. 260—649)

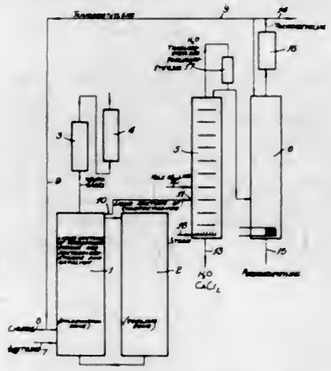
1. In the manufacture of DDT, the steps comprising condensing chloral and mono-chlorobenzene while a liquid mixture of the chloral and mono-chlorobenzene in the proportions of at least 2.2 moles of mono-chlorobenzene for each mole of chloral is emulsified in a sufficient amount of sulfuric acid of about 95% and not more than 98% strength to emulsify all of the mixture, effecting cooling as required to maintain the temperature from about 10° C. to about 40° C., adding oleum as required to maintain the sulfuric acid at this strength, and adding mono-chlorobenzene as required to prevent separation of the solid phase.

2,610,214
METHOD OF PREPARING VINYLIDENE CHLORIDE
James L. Amos, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
Application March 5, 1949, Serial No. 79,738
3 Claims. (Cl. 260—654)



1. A method of producing vinylidene chloride which consists in mixing together 1.1.2-trichloroethane and from 300 to 600 mol per cent thereof of liquid anhydrous ammonia, subjecting the mixture to a temperature between 40° and 75° C. under a pressure at least equal to the autogenous pressure of the mixture for a time between 2 and 10 hours, allowing the resulting product to separate into layers, withdrawing the organic layer, and separating vinylidene chloride therefrom by fractional distillation.

2,610,215
PROCESS OF MANUFACTURING CHLORINATED HYDROCARBONS
Lambert Vanharen, Ixelles-Brussels, Belgium, assignor to Solvay & Cie, Brussels, Belgium, a Belgian company
Application April 11, 1950, Serial No. 155,265
In Belgium April 26, 1949
3 Claims. (Cl. 260—654)



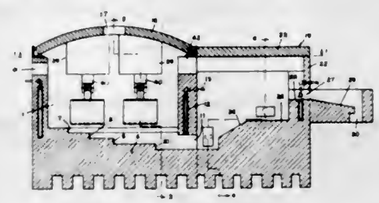
1. In a cyclic process for the simultaneous production of trichloroethylene and perchloroethylene, the steps which comprise simultaneously introducing chlorine gas, acetylene and trichloroethylene into a chlorination zone substantially filled with a mixture of tetrachloroethane and pentachloroethane in the liquid phase, said acetylene being introduced at the maximum rate compatible with no free acetylene reaching the top of the chlorination zone and said chlorine gas being introduced at a rate slightly in excess of that stoichiometrically required for the additive chlorination of both said acetylene and said trichloroethylene, thereby forming tetrachloroethane and pentachloroethane, withdrawing the reaction mixture from the chlorination zone subjecting said mixture to dehydrochlorination, whereby to obtain a mixture of trichloroethylene and perchloroethylene, separating said trichloroethylene from said perchloroethylene, withdrawing a portion of said trichloroethylene and returning the remaining portion of said trichloroethylene to said chlorination zone.

2,610,216
METHODS OF STABILIZING LATEX AND STABILIZED LATEX COMPOSITIONS
Alan Montague Hall, Leicester, England, assignor to B. B. Chemical Co., Boston, Mass., a corporation of Massachusetts
No Drawing. Application April 11, 1950, Serial No. 155,348. In Great Britain April 16, 1949
8 Claims. (Cl. 260—820)

1. A natural rubber latex composition wherein the individual rubber particles have associated therewith the product of reaction of at least one-half part by weight of casein with one part by weight of urea, precipitated thereon by formaldehyde, the precipitated material being present to the extent of 1½ parts by weight to 100 parts by weight of rubber solids.

ELECTRICAL

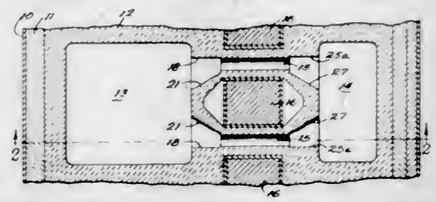
2,610,217
ELECTRIC ENAMEL FURNACE
Robert E. Skinner, Fairview Park, and Glenn H. McIntyre, Cleveland Heights, Ohio, assignors to Ferro Corporation, a corporation of Ohio
Application September 5, 1950, Serial No. 183,802
5 Claims. (Cl. 13—6)



1. A smelter for porcelain enamel frit comprising a substantially rectangular refractory-lined vault the bottom of which is stepped down longitudinally from one end wall to a low point adjacent the opposite end wall of said vault, a fining chamber adjacent to and down-stream from said vault and being in communication with the interior thereof at said low point and in a separate area above said low point, a discharge weir in the wall of said fining chamber which is opposite to the wall thereof through which communication is had with said vault, said weir being at an elevation substantially above the floor of said vault, the vertical wall of said vault adjacent said low point provided with a discharge opening arranged on the longitudinal axial line of the smelter which passes through the part of communication between said vault and said fining chamber and said weir, said axial line extending along the line of flow of the material through the smelter, said vault provided with a material charging opening arranged on said axial line, a plurality of pairs of electrodes respectively arranged on opposite sides of said axial line and arranged in successive down-stream arrangement, the first pair of such electrodes being in said vault adjacent and down-stream from said charging opening, the second pair of such electrodes in said vault and down-stream from said first pair, a third pair of electrodes arranged down-stream from said second pair and adjacent the port of communication between said vault and fining chamber, and a fourth pair of electrodes arranged down-stream from said third pair and adjacent said weir.

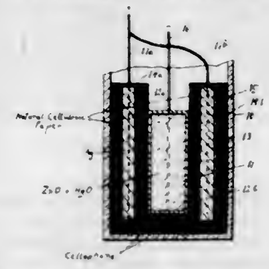
2,610,218
INDUCTION METAL MELTING FURNACE
Karl A. Lang, Glenview, Ill., assignor to Lindberg Engineering Company, Chicago, Ill., a corporation of Illinois
Application April 29, 1950, Serial No. 159,047
2 Claims. (Cl. 13—29)

1. A metal melting furnace comprising a pair of horizontally spaced chambers, a plurality of channels connecting the chambers and lying at an acute angle to the horizontal to open into the chambers at different levels, the upper ends of the channels terminating in openings which are substantially flared in a horizontal plane toward each other and having their upper and outer edges lying in substantially straight lines continuous with the upper and outer boundaries respectively of the channels and electrical means



mounted adjacent to the channels to induce a flow of electric current through the metal therein and in the chambers.

2,610,219
RECHARGEABLE BATTERY
Michel N. Yardeny, New York, N. Y., now by judicial change of name Michel N. Yardney, assignor to Yardney International Corp., New York, N. Y., a corporation of New York
Application April 4, 1950, Serial No. 153,830
7 Claims. (Cl. 136—6)



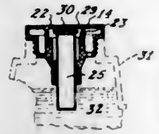
1. In a battery, in combination, a casing, at least one positive electrode and at least one negative electrode in said casing, at least said positive electrode containing a strong oxidizing agent in the charged condition of the battery, and diaphragm means separating said electrodes, said diaphragm means including at least one first sheet of semi-permeable material and at least one second sheet of permeable material interposed between said first sheet and said positive electrode, thereby protecting said semi-permeable material from oxidation by said agent.

2,610,220
STORAGE BATTERY ELECTRODE
Joseph B. Brennan, Cleveland, Ohio
Application July 24, 1948, Serial No. 40,609
1 Claim. (Cl. 136—59)



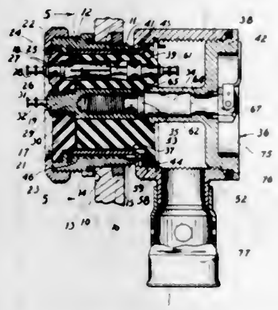
A storage battery electrode comprising a fibrous porous base including conductive filaments and non-conductive fibers, a porous coherent conductive metallic coating impregnated with active material in conductive relationship with the fibrous base, said fibrous base being impregnated with active material.

2,610,221
INDICATING VENT PLUG FOR ELECTRIC STORAGE BATTERIES
Charles L. Keller, Winnetka, Ill., assignor to The Richardson Company, Lockland, Ohio, a corporation of Ohio
Application March 25, 1949, Serial No. 83,416
5 Claims. (Cl. 136—182)



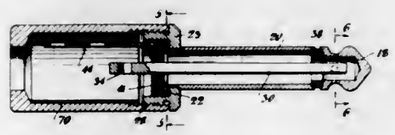
1. In an indicating vent plug a hollow body having a portion for engagement in the filler opening of a storage battery cell cover, a downwardly depending hollow tubular part on said portion, a float journaled for axial movement in said hollow tubular part, and a cap for said hollow body formed of material pervious to light through which the upper end of said float may become visible as it approaches said cap, said tubular part being of lesser external diameter than said hollow body, leaving a shoulder therebetween, said cap and said shoulder being perforated for the venting of gas, said tubular part having an upward extension within said hollow body, and said cap having a disc portion for closing the top of said hollow body and a depending tubular extension coacting with the upward tubular extension aforementioned, closing off within said hollow body a chamber containing a portion at least of said float, the perforations in said shoulder being located outside of said closed chamber whereby the gas being vented passes around said closed chamber out of contact with said float.

2,610,222
ELECTRICAL CONNECTOR WITH ADJUSTABLE COVER
Horatio H. Burtt, Hartsdale, William W. Koenig, Flushing, and Leon Gilbert, New York, N. Y., assignors, by mesne assignments, to Winchester Electronics, Incorporated, Glenbrook, Conn., a corporation of Connecticut
Application August 3, 1949, Serial No. 108,258
2 Claims. (Cl. 173—328)



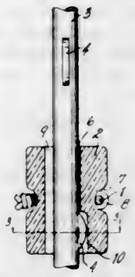
1. A socket for an electrical connector comprised of separable contact assemblies, said socket comprising a sleeve, an insulating member fitted in said sleeve, contacts carried by the insulating member, said insulating member having a flange thereupon, said assembly sleeve having a flange engageable with the flange of the insulating member, said flange of the sleeve having on its forward face a series of teeth extending peripherally thereabout, an outer casing part having an inwardly extending flange with teeth on the inner face thereof engageable with the teeth of the flange of the other assembly sleeve whereby to hold the outer casing part upon the sleeve in angular adjustment thereupon, said outer casing part having a peripheral recess therewithin adjacent the flange of the insulating member and a spring locking ring adapted to be seated in the peripheral recess and engageable with the flange of the insulating member to hold the insulating member, the outer casing part and the other assembly sleeve in locked engagement with one another and the outer casing part in locked engagement with the flange of the outer assembly sleeve.

2,610,223
MINIATURE PHONE PLUG
George O. Puerner, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application March 17, 1950, Serial No. 150,319
2 Claims. (Cl. 173—361)



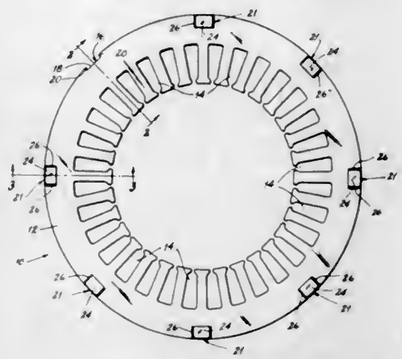
1. An electrical connector plug comprising a tip having a smooth bore formed therein, a flat rectangular contact member having its outer end fitted within said bore, a solder lug being an enlarged portion integrally formed on the inner end of said contact member opposite the tip thereof, said enlarged portion having a cross-sectional diameter substantially greater than that of the rest of said contact member, a metal sleeve surrounding said flat member and spaced therefrom, said sleeve separated insulatively from said tip by means of an insulative washer, a second contact member having a bowed resilient ring section with a hole therethrough placed adjacent the inner end of said sleeve so as to be electrically connected therewith, said first contact member being spaced from the inner end of said sleeve member in an insulative manner by an insulation disc having a hole whose cross-sectional diameter is substantially less than that of said enlarged portion of said first rectangular contact member, whereby when said outer end of said first contact member is fitted through said sleeve contact member via said disc and said hole in said resilient ring section to enter said bore tip then said enlarged portion of said rectangular member is firmly stopped against said disc, and means for securing said sleeve to said second contact member comprising a body ring section within which said insulation disc is placed, said body ring section being connected to said inner end of said sleeve at a position oppositely adjacent said resilient ring section, said insulative disc being pushed against said bowed, resilient ring by means of the pressure of said enlarged portion of said first contact member shoving thereagainst, thus to compress the resilient, bowed ring against said sleeve to join the same firmly thereagainst, the tip being staked to said flat contact member to so retain the same securely whereby a compensatory tension is provided in the entire assembly of the separate components.

2,610,224
ELECTRIC FENCE
Harold W. Norris, Battle Creek, Mich.
Application July 19, 1947, Serial No. 762,097
8 Claims. (Cl. 174—161)



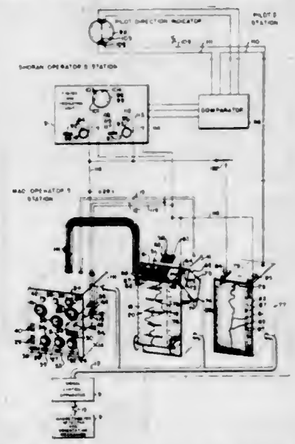
4. An electric fence structure comprising a rod forming a fence post, said rod having a projection extending from the side thereof, and an insulator defining a central passage arranged to slide over said rod, said insulator having a groove formed in the side of said passage and extending only partially along the length of said bore arranged to receive and engage said projection and support said insulator against rotation on said rod, said insulator further defining another groove extending completely along said passage and angularly offset from said first groove, said complete groove being arranged to pass said projection as said insulator is slid along said rod.

2,610,225
CORE CONSTRUCTION FOR ELECTRICAL EQUIPMENT
Frank Korski, Maplewood, Mo., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application December 20, 1948, Serial No. 66,181
3 Claims. (Cl. 175—21)



1. In combination, a lamination stack having a plurality of sheet-like laminations laid contiguously face to face, the stack having an edge portion formed by the edges of a plurality of said laminations, a groove across the edge of said stack having laterally spaced, oppositely facing edges, and a thin sheet-like key in said slot to connect the laminations of the stack together, the key initially having a width less than the width of the slot, and initially having a cross section with an upstanding middle portion, the key in position having a width to force its edges laterally against the edges of the slot, and the middle portion of its cross section substantially flattened, to secure the laminations together.

2,610,226
METHOD AND APPARATUS FOR CONDUCTING GEOPHYSICAL SURVEYS FROM AN AIRCRAFT
James M. Klaasse, Troy, N. Y., and Homer Jensen, Philadelphia, Pa.
Application May 12, 1950, Serial No. 161,674
10 Claims. (Cl. 175—182)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

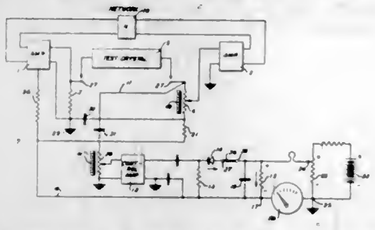


7. Apparatus for conducting geophysical surveys comprising in combination, an aircraft, shoran apparatus carried by the aircraft, a pair of shoran transmitter ground stations located in fixed spaced relation in the sub-plane terrain and cooperatively operable with said airborne shoran apparatus to measure the distances from the aircraft to the transmitter stations, a magnetometer carried by the aircraft, means responsive to said magnetometer and including a first milliammeter tape recorder for producing a continuous trace on the tape indicative of space changes in the absolute value of the earth's magnetic field as the aircraft is guided by said shoran apparatus along an arc of traverse of substantially constant radius about one of said ground stations, means including a second milliammeter tape recorder controlled by said airborne shoran apparatus for producing on the recorder tape a trace indicative of the pilot error in maintaining the aircraft on said arc of traverse, means including a switch arranged to be closed by the airborne shoran apparatus as the mileages measured thereby to the other of said ground stations become integral multiples of one mile for simultaneously marking the tape records of said first and second recorders, and means including a switch arranged to be operated by the operator of the airborne shoran operator for marking the tape record of at least one of said recorders at the beginning and end of intervals during which said measured mileages from the aircraft to said other of the stations are not true measurements of the distances therebetween.

2,610,227
METHOD AND APPARATUS FOR MEASURING EFFECTIVE RESISTANCE
James S. Bell, Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 21, 1948, Serial No. 22,457
7 Claims. (Cl. 175—183)

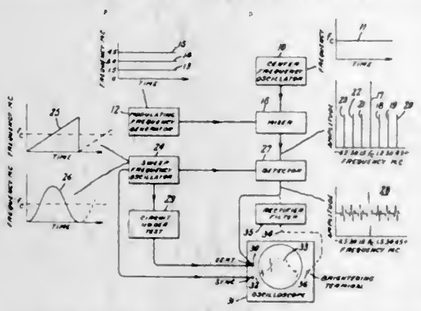
5. In apparatus for measuring the effective resistance of piezoelectric crystals at their series-

resonant frequencies, the combination with a main amplifier having output and input circuits connected together to form a regenerative feedback loop including a shunt resistor and terminals for the series connection in the loop of crystals to be tested, and a control amplifier having an input circuit connected across the resistor and an output circuit including a rectifier and a



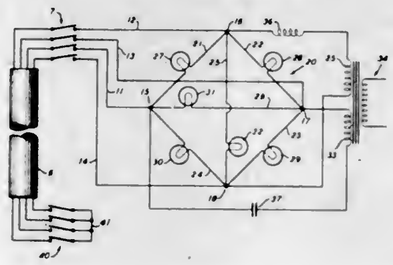
second resistor for developing direct current potentials proportional to the current through the crystal under test, of connections between the second resistor and the main amplifier for regulating the gain of the main amplifier to establish a known proportionality between the direct current potentials and the effective resistance of the crystal, and means for measuring the potentials.

2,610,228
MARKER SIGNAL GENERATOR
George F. Devine, Marcellus, N. Y., assignor to General Electric Company, a corporation of New York
Application September 2, 1949, Serial No. 113,873
5 Claims. (Cl. 175—183)



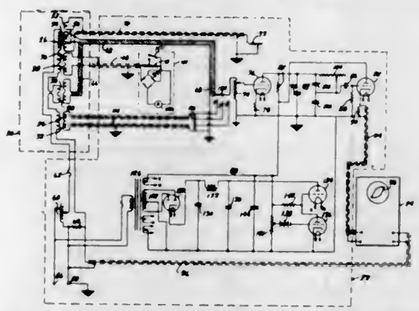
1. In combination a source of fixed frequency carrier waves, a source of a plurality of harmonically related fixed frequency waves, means for mixing said waves to derive upper and lower side bands of said harmonically related waves centered about said carrier waves together with said carrier waves, a source of adjustable frequency waves, means for sweeping the frequency of said adjustable frequency waves over a given frequency range including the frequencies of said mixed waves, a detector circuit, means for applying said mixed waves and said swept frequency waves to said detector circuit for producing beat signals whenever the frequency of the swept frequency waves coincides substantially with the frequency of said mixed waves, a test circuit, a cathode ray tube having two pairs of deflection terminals for deflecting the beam thereof along respective coordinates thereof, means for applying said sweep frequency waves through said test circuit to said one pair of said deflection terminals, means for applying to the other pair of deflection terminals a voltage varying in accordance with the frequency variations of said source of adjustable frequency waves, whereby an indication is produced on said cathode ray tube in which the deflection along said one coordinate with respect to deflection along said other coordinate is a measure of the frequency response of said network, and means to apply said beat signals to said cathode ray tube to cause changes in said indication during the occurrence of said signals to provide accurate frequency markers on said indication corresponding to the frequencies of said carrier waves and said upper and lower side bands.

2,610,229
CONTINUITY TEST APPARATUS
Jesse A. Cranford, Buffalo, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 16, 1950, Serial No. 185,283
4 Claims. (Cl. 175—183)



1. Test apparatus comprising four terminals for receiving conductors to be tested, four indicating devices connecting the terminals together as a bridge in conjugate pairs, other indicating devices interconnecting the terminals of each pair, means for applying an alternating potential between the two terminals of one pair and means for applying a second alternating potential essentially in quadrature with the first between the two terminals of the other pair.

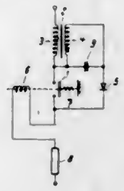
2,610,230
INTEGRATOR AND HYSTERESIS LOOP TRACER
David E. Wiegand, Villa Park, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Application February 20, 1947, Serial No. 729,693
6 Claims. (Cl. 175—183)



1. A device for determining the magnetic characteristics of a sample including the combination of an exciting solenoid disposed near said sample, means to cause current flow having an alternating component in said solenoid so as to subject said sample to a magnetic field, a pickup

coil disposed within the field of said solenoid to produce a voltage determined by the time rate of change of the magnetic flux within said solenoid, and elements to compensate for the magnetic flux passing through said solenoid in the absence of said sample, said elements including a mutual inductor having a first coil and a second coil, means connecting said first coil to carry current proportional to the current in said exciting solenoid and said second coil to said pickup coil so that the voltage therein is in opposition to the voltage of said pickup coil, said mutual inductor being so proportioned relative to said pickup coil that the electromotive force in said pickup coil in the absence of a sample tends to be balanced out, a coil disposed in inductive relation with said pickup coil or said mutual inductor, and means to short circuit said last coil through a resistance of value to equalize the in-phase components of voltage induced in said pickup coil and said second coil, whereby the total voltage across said pickup coil and said second coil is determined solely by the time variations of magnetic flux in said sample.

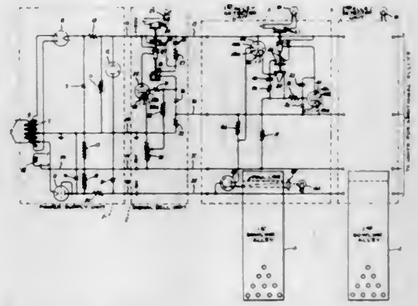
2,610,231
SYNCHRONOUS ELECTRIC CURRENT SWITCHING APPARATUS
Erwin Wettstein, Zurich, Switzerland, assignor to FKG Fritz Kesselring Gerätebau Aktiengesellschaft, Bachtobel-Weinfelden, Switzerland, a Swiss company
Application September 7, 1950, Serial No. 183,577
In Switzerland September 10, 1949
24 Claims. (Cl. 175—294)



1. Electric current translating apparatus, comprising a load circuit, a synchronous contactor having contact means in said circuit for periodically closing and opening said circuit, a saturable switching reactor having a primary winding series-connected with said contact means in said circuit and having a secondary winding to provide therein an auxiliary voltage, and valve means connected in series with said secondary winding across said contact means.

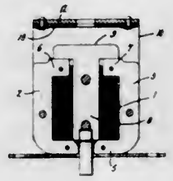
2,610,232
PHOTOELECTRIC DETECTOR
Ernest Jellinek, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 5, 1950, Serial No. 160,177
5 Claims. (Cl. 175—321)

1. A relay control system comprising a pair of voltage supply conductors, a first electric valve having an anode, a cathode and a control electrode, a connection from said anode to one of said supply conductors, a connection from said cathode to the other of said supply conductors, means for producing a beam of light, a control circuit including an impedance and a photoelectric cell responsive to an interruption of said beam for producing a change in the voltage across said impedance, an electric valve amplifier connected to be responsive to the voltage across said impedance and connected to said control electrode and cathode for supplying a corresponding changed voltage thereto to initiate a current in the anode-cathode circuit of said valve, an electromagnetic switching device having main load controlling contacts and an operating coil connected in said first connection and responsive to a predetermined value of current



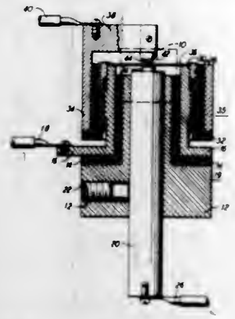
in said anode-cathode circuit for picking up said switching device, and means for delaying the pick up of said switching device for a predetermined interval of time after the interruption of said light beam comprising a resistor connected in circuit with said control electrode and a capacitor connected between said anode and said control electrode for controlling the rate of increase of current in said anode-cathode circuit.

2,610,233
SOLENOID COIL SUPPORT
Andrew H. Caldwell, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York
Application July 12, 1950, Serial No. 173,425
2 Claims. (Cl. 175—338)



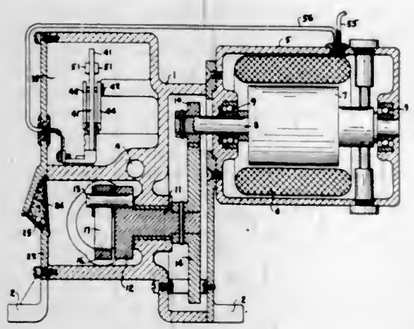
1. In combination, a solenoid comprising a laminated C-frame including a pair of parallel arms and a member joining a corresponding pair of the ends thereof, said parallel arms having a pair of stubs projecting inwardly from the opposite ends thereof, an operating coil having a plunger aperture therein and provided with an inside surface surrounding said aperture, said stubs restraining said coil axially against said joining member, a yoke secured to said frame and provided with a plate portion perpendicular to the axis of said coil and flat tongue members secured to said frame and extending within said aperture, said tongue members contacting said inside surface to secure said coil transversely with respect to said frame and a T-shaped plunger having a stem portion slidably disposed within said aperture and between said tongue members and a head portion wider than the opening between the ends of said arms and disposed between said plate portion and said arm ends to restrict movement of said head portion therebetween.

2,610,234
CRYSTAL TRIODE
Arthur H. Dickinson, Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 4, 1950, Serial No. 159,980
2 Claims. (Cl. 175—366)



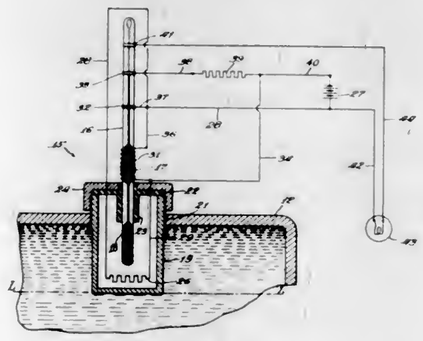
1. In a crystal triode; a crystal having a plurality of planar surfaces; a base electrode electrically and mechanically connected to a first face of the crystal; an emitter electrode mounted in point contact with a second face of said crystal; a resilient disc-shaped collector electrode in spaced relation to said emitter electrode and having a substantially continuous line contact surface substantially parallel to said second face; mechanical means for holding said disc-shaped collector elcctrode and said emitter electrode in a preselected spaced relationship; and a member having said base electrode affixed thereto, said member being longitudinally movable relative to said mechanical means so that the selected movement thereof causes a preselected pressure to be exerted between said emitter and collector electrodes and said second face of said crystal.

2,610,235
HORN BLOWING APPARATUS FOR MOTOR VEHICLES
Frank M. Stella, Detroit, Mich., assignor to Power Brake Parts Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application March 11, 1949, Serial No. 80,889
2 Claims. (Cl. 177—8)



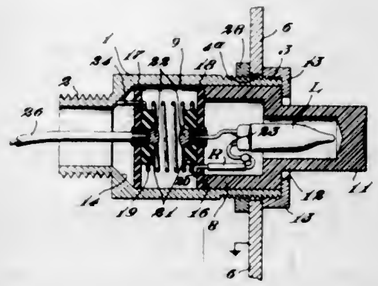
1. A horn blowing apparatus for motor vehicles comprising, in combination with a generator adapted to be driven by the engine of a vehicle and an air horn for mounting on the vehicle, a compressor connected to said horn to furnish compressed air for blowing the horn, means for controlling the flow of compressed air to said horn, an electric motor for driving said compressor, an electric circuit connected to deliver current to said motor, a normally open relay connected into said circuit, said relay having a circuit-closing coil electrically connected to the current output side of said generator, whereby said motor is operated only when said engine is running.

2,610,236
LOW WATER ALARM
William M. Smith, Glen Ellyn, Ill., assignor to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware
Application July 1, 1949, Serial No. 102,523
3 Claims. (Cl. 177—311)



1. A temperature responsive device for giving indications relative to the temperature of a body of liquid coolant contained within a coolant jacket of an internal combustion engine, said device comprising a liquid column thermostat provided with spaced contacts one of which represents the normal functional setting of the thermostat and the other the maximum allowable temperature of the coolant and the space between said contacts serving with the liquid column to indicate temperature conditions between the normal operating temperature and the maximum allowable temperature of the coolant, a housing for a temperature sensitive portion of the thermostat positioned to extend into said coolant body, an electrical heater positioned in said housing, whereby the thermostat responds to the combined temperatures of the electrical heater and the coolant body; the said heater being of a value to apply sufficient heat to the thermostat to maintain it closed when the coolant is at a predetermined operating temperature and adapted to dissipate a progressively increasing portion of its heat to the thermostat and a progressively decreasing portion of its heat to the coolant body as the temperature of the coolant body increases, an energizing circuit for said heater, an electrical booster heater for applying additional heat to the thermostat, an energizing circuit for the booster heater connected in parallel with the energizing circuit for the first mentioned heater, an electrical conductor leading from a conductor of the last mentioned circuit to the said thermostat contact and effective to short out the booster heater when the thermostat is closed at said contact, whereby the thermostat cycles by the recurrent application of heat from said booster heater until the temperature of the coolant and the heat supplied by the first mentioned heater corresponds to the normal functional setting of the thermostat.

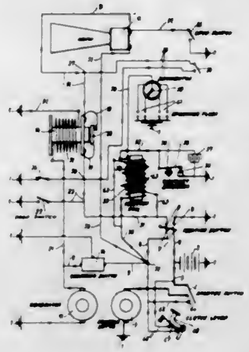
2,610,237
ELECTRIC POWER INDICATING SWITCH
Lloyd N. Benner, Brunswick, Maine
Application November 16, 1949, Serial No. 127,744
4 Claims. (Cl. 177—311)



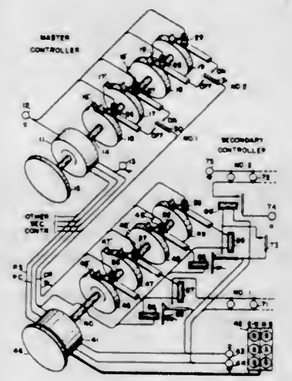
1. For attachment in a mounting hole of a switch box or the like, an electric power indicating switch comprising a tubular casing carrying mounting means for securing one end of the casing in said hole, an internal abutment forming a restricted opening at one end of the casing, means providing a second internal abutment and restricted opening at the other end of the casing, a pair of blocks slidable in the casing, opposed contacts on said blocks, a spring urging the blocks respectively toward said abutments to hold said contacts apart, plunger means extending into the casing through one of said openings and operable to urge the blocks toward each other until their contacts meet, said plunger means having a light transmitting push button portion of smaller dimension than either opening, lamp means connected to the contact of one block, said blocks being substantially of the same dimension transversely of said bore, whereby said switch may be assembled with said one contact carrying block and lamp selectively disposed adjacent either end opening and with the plunger extending through the selected end opening and said casing may be attached either outside said mounting hole or substantially flush with said hole and with the plunger disposed outside the switch box.

2,610,238
ELECTRICAL AUTOMOBILE SAFETY DEVICE
Rudolf Joksch, Vienna, Austria, assignor of one-half to Fritz Gruenberg, Vienna, Austria
Application March 11, 1949, Serial No. 80,997
4 Claims. (Cl. 177—314)

2. An electrical safety device for motor vehicles driven by an internal combustion engine, which comprises a battery, a generator driven by said engine and connected to said battery, a primary ignition circuit, an alarm circuit arranged in parallel with said ignition circuit and comprising an alarm device, an electromagnetic switch in said alarm circuit, electromagnetic means connected to said generator and opening said electromagnetic switch, if energized by said generator, at least one door switch in said alarm circuit, said door switch being closed if the associated door is being opened so as to complete said alarm circuit with the engine standing still and therefore said electromagnetic switch being closed, and a hand-operated ignition switch comprising two pairs of contacts, one pair of which is arranged in said ignition circuit and is interconnected by said ignition switch in its closed position so as to complete said ignition circuit, as well as at the same time said alarm circuit, if said electromagnetic switch and said door switch are closed, whereas the other pair of contacts is arranged in said alarm circuit in parallel with said door switch and is interconnected by said ignition switch in its open position.



2,610,239
TRAFFIC SIGNAL AND STREET LIGHT CONTROL SYSTEM
Judson O'D. Shepherd, Atlanta, Ga.
Application September 7, 1948, Serial No. 48,045
8 Claims. (Cl. 177—352)



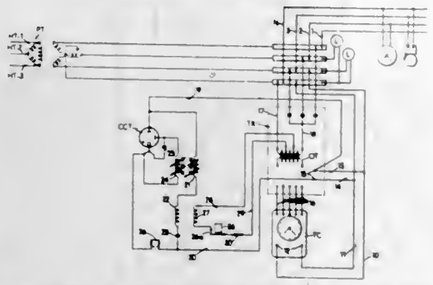
1. In a control system, a circuit controller, a motor to drive said controller in recurrent cycles, traffic control signalling devices connected to and operated by said controller, a circuit distributor driven cyclically by said motor to partially complete electrical control circuits at predetermined parts of each of said cycles, electro-responsive control means connected to certain of said circuits to variably control said controller to correspondingly control the operation of said signalling devices dependent upon the completion to said electro-responsive means of circuits through said distributor, electro-responsive street light control means connected to other of said control circuits and variably operated dependent upon the completion of latter said circuits thereto through said distributor, street lights connected to and controlled by latter said means, and means connected to said distributor to complete circuits through said distributor at any of said predetermined parts of a cycle.

2,610,240
MARINE SEISMOMETER SPREAD
Newell Pottorf, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application February 23, 1949, Serial No. 77,726
7 Claims. (Cl. 177—352)



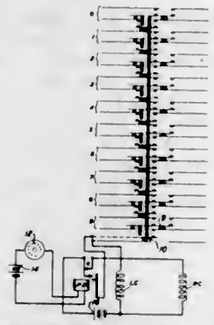
1. A marine seismometer spread adapted for towing by a vessel through a body of water comprising a tension and conductor cable, means supporting said cable in the water, a plurality of seismometers spaced along said cable, insulated electrical leads connecting said seismometers to conductors in said cable, positively buoyant float means coupled to each of said seismometers and forming therewith spaced detector units each having a small positive resultant buoyancy, a plurality of spaced surface floats, and a plurality of negatively buoyant flexible leads, each of said detector units being separately connected to a different one of said surface floats by at least one of said flexible leads which forms the sole mechanical linkage therebetween, the length of each lead being substantially greater than the desired depth of submergence for said seismometers, and the negative buoyancy of a portion substantially less than half of the length of said lead being effective to balance said small positive resultant buoyancy, the flexibility of said lead being so great that said small positive buoyancy flexes said lead until it hangs with a slack loop between its points of attachment to the surface float and to said detector unit, whereby said seismometers are held at positions of stable equilibrium below the surface of the water.

2,610,241
SIGNAL VOLTAGE REGULATOR FOR POWER LINE HIGH-FREQUENCY TRANSMITTERS
Robert N. Eichorn, Johnson City, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application April 13, 1951, Serial No. 220,953
4 Claims. (Cl. 177—352)



1. In a signalling system having a power source and a transmitter connected to said power source including an output transformer and means for generating high frequency signals in said transformer, signal voltage regulating means comprising a series resonant circuit responsive to signals generated by the transmitter, a three-electrode cold cathode gas discharge tube, a parallel resonant circuit connected to the starting electrode of said tube and inductively coupled to said series resonant circuit for causing said tube to conduct when said series resonant circuit responds to a signal which is above a predetermined voltage level, a relay connected in circuit to the main electrodes of said tube, a resistance circuit adapted to be connected across the secondary of the transmitter output transformer, and contacts in said resistance circuit under control of said relay for connecting said resistance circuit to effect a decrease in the output signal voltage of the transmitter to at least the predetermined voltage level.

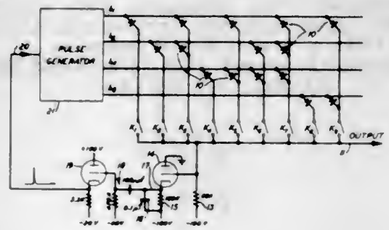
2,610,242
IMPULSE COUNTING RELAY AND SYSTEM THEREFOR
Thomas P. Farkas, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 20, 1948, Serial No. 16,091
11 Claims. (Cl. 177—353)



4. An impulse counting system comprising in combination a continuity transfer relay, a source of electrical energy, and a magnetic contact counting relay comprising two adjoining stacks of fixed laminations of magnetic material, laminations of insulating material interposed between adjacent laminations of said magnetic material, a plurality of primary and secondary armatures of magnetic material interposed between adjacent layers of said stacked fixed laminations and insulated therefrom, a tertiary armature of magnetic material, mechanical coupling means interposed between adjacent armatures, energizing coils surrounding each of said stacks of fixed laminations, one of said coils connected to said energy source through one contact of said continuity transfer relay, the other of said coils connected to said energy source through said tertiary armature and another contact of said continuity transfer relay whereby upon successive operation of said continuity transfer relay potential is applied from said source of electrical energy to alternately energize and deenergize said coils and successively establish contact between said primary armatures and adjacent fixed laminations.

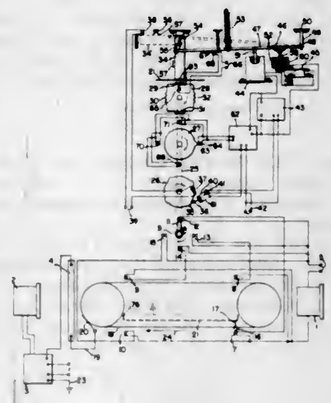
2,610,243
KEYBOARD OPERATED TRANSLATING CIRCUIT
William Henry Burkhart, East Orange, and Howard M. Fleming, Jr., Orange, N. J., assignors to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware
Application April 6, 1951, Serial No. 219,622
4 Claims. (Cl. 177—353)

1. A translating circuit comprising an output line, a resistor connecting said line with a source of potential, a plurality of input lines at a much higher potential than said output line, a series of diodes inserted between said input lines and said output line and made conducting by said difference in potential, a series of keyboard switches, one for each signal to be transmitted and each connected in series with one or more of said diodes between said output line and one or more



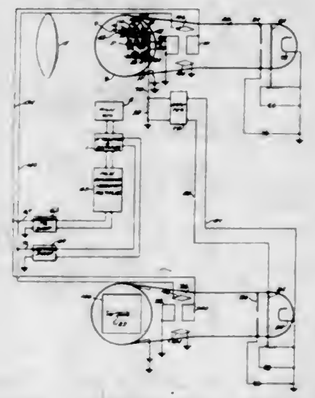
of said input lines, a cathode follower having its grid connected to said output line, a differentiating network fed by said cathode follower, and a pulse generator adapted to produce a predetermined number of pulses for transmittal over said input lines, tripped by a pulse from the differentiator.

2,610,244
DEPTH SOUNDING APPARATUS
Ezekiel Wolf, Dorchester, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company, a corporation of Delaware
Application June 5, 1945, Serial No. 597,681
27 Claims. (Cl. 177—386)



1. In a system of the echo type wherein depths or distances are measured by the time interval between the transmission of a signal and the receipts of the echo and recorded on a recording paper which is advanced in one direction, a recording stylus which is moved in a direction transverse to the motion of the paper over it, means for printing a section of a range measuring scale on the recording paper during operation of said system, means for adjusting the time of production of the transmitted signal with respect to the zero range position of the stylus on the scale and means operated in accordance with the amount of said adjustment for selecting the scale section to be printed.

2,610,245
ELECTRET ARRAY SENSITIVE TO RADIO WAVES
Robert H. Rines, Brookline, Mass.
Application February 18, 1946, Serial No. 648,482
5 Claims. (Cl. 178—6.8)

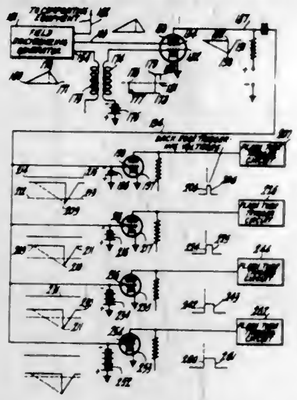


5. An electric system having, in combination, a plurality of successively disposed radio-receiving elements for receiving radio waves, each element including an electret comprising a polarized dielectric base in combination with a radio-wave absorbing material provided on one side with means tuned to the frequency of the radio waves and connected on another side to a common load circuit, means for focusing a radio-wave image of an object upon the radio-receiving elements, means for producing a first electron stream for impinging on the elements, means for causing the first electron stream to scan the successive elements of the plurality of elements, an oscilloscope having a screen and means for producing a second electron stream impinging on the screen, means for causing the second electron stream to scan the successive portions of the screen in synchronism with the scanning of the successive elements of the plurality of elements by the first-named scanning means, and means connected to the common load circuit controlled by the first electron stream and responsive to the radio energy received by the successive radio-receiving elements for modulating the second electron stream during its scanning process to produce a likeness of the object upon the screen.

2,610,246
COMPOSITE PICTURE TELEVISION
Alfred N. Goldsmith, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 30, 1949, Serial No. 135,963
2 Claims. (Cl. 178—7.2)

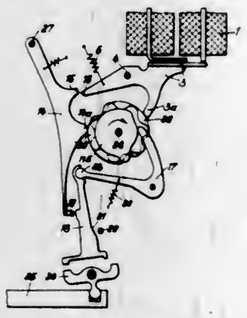
2. In a system wherein the foreground and background portions of an object space are separately illuminated and images of said portions are scanned to produce foreground and background signals which are thereafter combined to produce a composite image signal, the combination of means including a field synchronizing generator, a transformer having a primary and a secondary, said primary being connected to the output of said generator, an amplifier having at least two control grids and a plate, one of said grids being connected to the output of said field synchronizing generator, the other of said grids being connected to the secondary of said transformer in such fashion that a control voltage

is developed during one portion of the output wave of said generator, a plurality of electron discharge devices each having its grid biased to a different potential, means for applying said



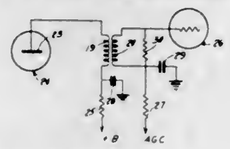
control voltage to the grids of said devices, and means responsive to the outputs of said devices for pulse illuminating at least one of said portions.

2,610,247
TELEPRINTER RECEIVER DEVICE
Herbert Wüsteney, Kladow, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany, a German corporation
Application October 5, 1950, Serial No. 188,614
In Germany November 12, 1948
9 Claims. (Cl. 178—33)



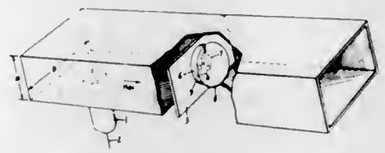
1. In a start-stop teleprinter receiver a rotatable control shaft, a receiver magnet, a first and a second armature for coaction with said magnet, said first armature having a relatively large working stroke and said second armature having a relatively small working stroke, said first armature governing the operation of said control shaft by means comprising interlocking levers controlled thereby to release said control shaft for rotation through one revolution, and means operated by said control shaft at the conclusion of each revolution for pressing said first armature against the core of said magnet; and said second armature governing the selection operations by means comprising a first arm extending therefrom for cooperation with a control cam on said control shaft which presses said armature against the core of said magnet during the revolution of said control shaft, a second arm extending from said second armature, a selection lever, a cam on said control shaft for causing said selection lever to move against said second arm, and interlocking means on said selection lever for coaction with said second arm whereby said selection lever is stopped in its displacement against said second arm by engagement therewith when said armature is in released position.

2,610,248
RADIO FREQUENCY COUPLING CIRCUIT
John Drysdale Reid, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application January 3, 1949, Serial No. 69,020
1 Claim. (Cl. 178—44)



In a television receiver intermediate frequency amplifier, the combination of a plurality of stages, each of which includes an electron tube having a control electrode, and a coupling network comprising a transformer consisting of a pair of closely spaced interleaved concentric conductive spirals, one of which is coupled as a primary to the output of a stage and the other of which is coupled as a secondary to the control electrode of a succeeding stage, said spirals being intimately capacitively and inductively coupled together and tuned by their distributed capacitance to provide a response characteristic with widely spaced peaks, and a single grid resistor in shunt with said other spiral, said resistor providing the sole damping for both said primary and said secondary to widen the frequency band of said network, said resistor also unbalancing the Q's of said primary and secondary to render one peak servient and the other peak so dominant that the response characteristic is non-symmetrical and that the dominant peak may be employed to provide a satisfactory pass band.

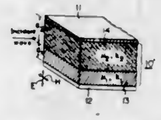
2,610,249
DIELECTRIC WAVE GUIDE SYSTEM
Milan D. Fiske, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application September 15, 1942, Serial No. 458,423. Divided and this application December 16, 1944, Serial No. 568,512
9 Claims. (Cl. 178—44)



1. In combination, a dielectric wave guide of the hollow-pipe type, exciting means for establishing electro-magnetic waves within said guide, a metallic wall positioned in said guide and lying in a plane substantially transverse to the direction of wave propagation through said guide and provided with an elongated slit having a pair of substantially circular openings at each end thereof, said slit and associated openings con-

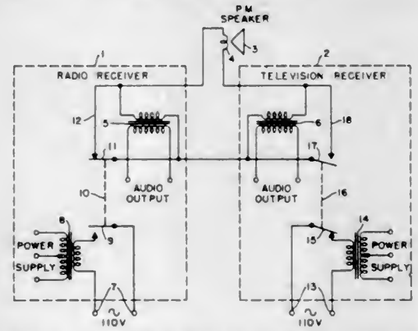
stituting an aperture tunable to the frequency of said exciting means, and a deformable diaphragm forming a boundary of said slit for controlling the effective natural frequency of said aperture.

2,610,250
ELECTROMAGNETIC-WAVE ENERGY-ABSORBING MATERIAL
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 5, 1946, Serial No. 707,787
5 Claims. (Cl. 178—44)



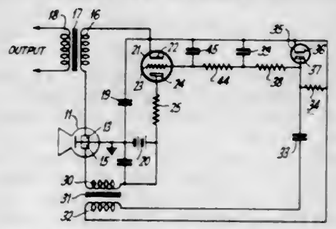
1. An electromagnetic-wave energy-absorbing material, adapted to be interposed in a wave-propagation path of which at least a portion has a predetermined ratio of dielectric constant to magnetic permeability for a predetermined mode of wave propagation therethrough comprising: a quantity of dielectrical material; a quantity of high-conductivity material consisting of particles having at least one dimension which is small in relation to the wave length of an electromagnetic wave to be translated thereby; the relative quantities of said materials being so proportioned with relation to their dielectric constants and magnetic permeabilities as to provide, for said predetermined mode of wave propagation therethrough and along said portion of said path, a ratio of effective dielectric constant to effective magnetic permeability for said energy-absorbing material substantially equal to said predetermined ratio; and a substantial quality of high-resistance material dispersed in at least a portion of said dielectric material consisting of particles having at least one dimension small in relation to the wave length of said translated wave and effective to cause substantial dissipation of the electric energy of said translated wave.

2,610,251
AUDIO-POWER SWITCHING SYSTEM FOR RADIO-TELEVISION RECEIVER COMBINATIONS
Charles E. Torsch, Towson, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application July 21, 1948, Serial No. 39,923
2 Claims. (Cl. 179—1)



1. A switching system for use in a pair of receivers of electro-magnetic waves, each having a power supply circuit and an audio output transformer, said system comprising a loud speaker having a voice coil, means serially connecting said voice coil and the secondaries of said audio output transformers, a pair of ganged switches in each receiver and means whereby each of said pairs of ganged switches is operable to short circuit the secondary of the output transformer of its respective receiver when the power supply circuit of said receiver is interrupted and to interrupt said short circuit when said power supply circuit is completed.

2,610,252
AUDIO LIMITER CIRCUITS
Lawrence Campbell Fuller, Jr., Ardmore, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application December 15, 1948, Serial No. 65,378
18 Claims. (Cl. 179—1)

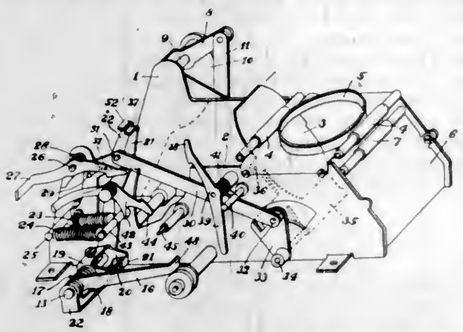


1. An electronic circuit arrangement for limiting the electric output amplitude level of an acoustical-electrical conversion device over a wide range of acoustic input intensities, comprising said acoustical-electrical conversion device, an electron discharge device defining a space charge path and a source of direct potential connected in series thereby to produce a space charge current flowing in said circuit, means to produce a control potential proportional to the amplitude of said input intensities, and means to apply said control potential to said electron discharge device in such direction as to vary the intensity of said space discharge current in inverse proportion to the amplitude of said input intensities and maintain the electric output amplitude level of said conversion device substantially constant over the range of input intensities.

2,610,253
TELEPHONE COIN COLLECTOR
Louis Jean Joseph Schreiber, deceased, late of Antwerp, Belgium, by Catherine Henriette Léontine Berthe Martin, widow and heir, Antwerp, Belgium; Louise Antoinette Schreiber and Robert Alfons Jean Albert Van Beurden, Antwerp, Belgium, and Paul Raoul Schreiber, Berchem, Belgium, heirs, and Georges Xavier Lens, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 27, 1947, Serial No. 770,935
In the Netherlands August 4, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires August 4, 1959
12 Claims. (Cl. 179—6.5)

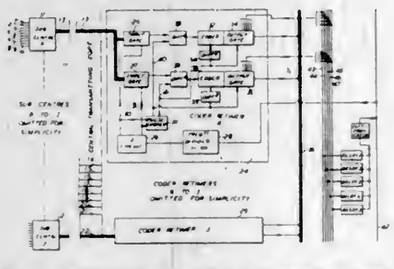
5. A telephone coin box comprising a coin platform movable into three positions, a first position for refunding coins inserted in the box, a second position for retaining coins on said platform, a third position for collecting coins in a coin receptacle, coin actuated platform positioning means adapted to move said platform from said first position to said second position upon

the insertion of a coin, and means under the control of the receiver hook for rendering said



platform positioning means ineffective when the receiver is supported on the receiver hook.

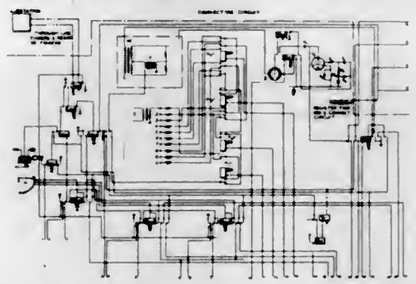
2,610,254
MIXED MODULATION IN PULSE INTER-COMMUNICATION SYSTEMS
Edmond Maurice Deloraine and Alec Harley Reeves, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application December 4, 1948, Serial No. 63,592
In Great Britain December 7, 1947
16 Claims. (Cl. 179—15)



1. In a telephone exchange system wherein communication channels take the form of time positions in a recurring cycle of time positions, the combination comprising a plurality of link circuits each having a recurring time position cycle, another link circuit having a recurring time position cycle, the time positions of which are shorter in duration and have a greater number than those of said plurality of links, and means for retiming and combining the time position of said plurality of links to concentrate them in a single cycle of the time positions of said other link.

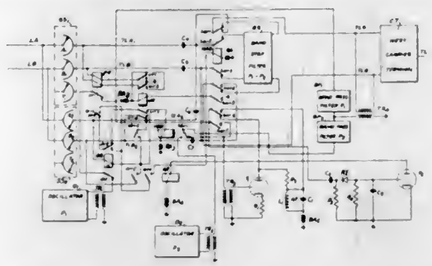
2,610,255
ELECTRICAL SIGNALING SYSTEM
Martinus den Hertog and Jakob Kruithof, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 26, 1947, Serial No. 731,136
In the Netherlands November 3, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires November 3, 1961
1 Claim. (Cl. 179—18)

In an electrical selective signalling system, a sending device, a receiving device, a line interconnecting said devices, said sending device comprising a plurality of sources of alternating current of different frequencies, a plurality of digit switches, one for each digit to be transmitted, a first, multi-bank, step-by-step switch, means for connecting said first step-switch to said digit switches, said first switch adapted to operate under control of said digit switches, a second multi-bank, step-by-step switch, circuit means to operate said second step-switch including selected contacts of one of the banks of said first step-switch, said second step-switch having the contacts of one of its said banks arranged to provide a plurality of positions for each transmittable digit, the number of positions equal to the number of digits to be accommodated by the system, each position corresponding to a time element of the sending code used in the system, means including said second step-switch for controlling the connection of a first one of said sources to said line over selected con-



tacts of another of its said banks, thereby to cause impulses to be transmitted over said line from said first source at the rate of two for each digital position of said step-switch, means including selected contacts of another of the banks of said first step-switch for connecting a second of said sources to said line, said last named means also including selected contacts of another of the banks of said second step-switch, whereby a plurality of time elements is defined by the intermittent application to said line during alternate time elements a current of one frequency and a current of another frequency during a selected time element, and selector means associated with said receiving device and variably operable, in accordance with the receipt over said line from said sending device, of currents of both frequencies.

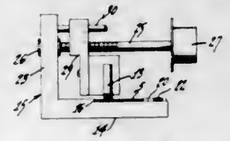
2,610,256
DIAL SET FOR CARRIER OR 2-WIRE LINES
Walter Brandt, Jersey City, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware
Application November 5, 1949, Serial No. 125,809
14 Claims. (Cl. 179—84)



1. In a communication system, the combination with a communication channel of a first and a second set of switching equipment located at

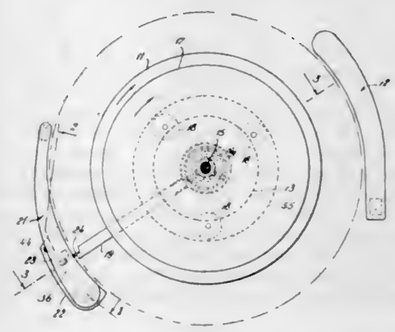
opposite ends of said channel, said first set including a source of frequency in the voice frequency range, first switching means for normally applying said frequency to said channel for transmission to the opposite end, and circuit means selectively operable to inactivate said switching means, said second set including second switching means responsive to the disappearance of said frequency to produce a supervisory signal.

2,610,257
MAGNETIC RECORD VOLUME CONTROL
Joseph T. Wissmann, Burbank, Calif., assignor to Warner Bros. Pictures, Inc., Burbank, Calif., a corporation of Delaware
Application December 22, 1949, Serial No. 134,547
9 Claims. (Cl. 179—100.2)



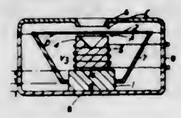
1. A magnetic sound record level varying system comprising means for advancing a magnetic record medium having a sound track thereon of a predetermined width, an erasing magnetic head in contact with said record medium, means for energizing said head with erasing energy, and means for varying the amount of said track in contact with said head for erasing different transverse widths of said track in accordance with the amount of reduction in average level desired.

2,610,258
PHONOGRAPH ADAPTOR FOR LONG PLAYING RECORDS
Peter C. Goldmark, New Canaan, Conn., and Carl H. Youngquist, Brooklyn, N. Y., assignors to Columbia Broadcasting System, Inc., New York, N. Y., a corporation of New York
Application March 3, 1949, Serial No. 79,333
10 Claims. (Cl. 179—100.4)



1. An adaptor for a record player having a relatively high-speed turntable to permit the alternative reproduction of relatively high-speed coarse-groove and relatively low-speed fine-groove disk records which comprises a turntable assembly for placement on said high-speed turntable, said assembly including an epicyclic train having driving and driven elements and a differential speed control element, means whereby said driving element is adapted to engage said turntable and establish a driving connection therewith, an adaptor turntable attached to said driven element, an arm attached to said differential speed control element, an arm having a fine-groove pickup for reproducing said fine-groove records and mounted on a pickup base, a switch in said base for alternatively connecting said fine-groove pickup and a coarse-groove pickup to an output circuit, and a stop member moveably mounted in said base to operate said switch, said stop member being adapted for engaging and disengaging said arm of the turntable assembly to change the speed of rotation of the adaptor turntable.

2,610,259
ELECTROMAGNETIC VIBRATORY DEVICE
James Samuel Paterson Roberton, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 7, 1947, Serial No. 767,241
In Great Britain June 21, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires June 21, 1966
13 Claims. (Cl. 179—114)

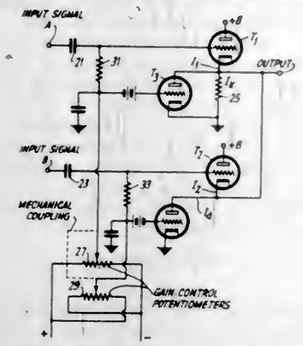


1. An electro-acoustic transducer comprising, in combination: a diaphragm of magnetic material; a single permanent magnet member; a main pole system including at least one pole piece adjacent said diaphragm and a longitudinal portion of said diaphragm magnetically connected in series with at least a portion of said permanent magnet member; a main air gap system including a main air gap between each pole piece and the adjacent part of said diaphragm, said permanent magnet cooperating with said main pole system to produce a magnetic flux in said main air gap system and an auxiliary pole system including a magnetic path having at least one pole piece adjacent said diaphragm and magnetically connected in series with at least a portion of said permanent magnet member, said magnetic path being connected in series with a main air gap and in shunt with the longitudinal portion of the diaphragm adjacent said main air gap, said permanent magnet cooperating with said auxiliary pole system to produce an additional magnetic flux in said main air gap system to divert a portion of said first-mentioned magnetic flux passing through said adjacent part of the diaphragm.

2,610,260
SIGNAL GAIN CONTROL CIRCUITS
Le Roy Moffett, Tarrytown, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1946, Serial No. 719,403
2 Claims. (Cl. 179—171)

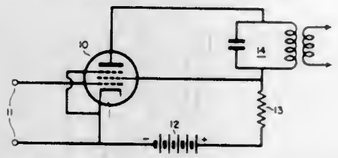
2. A television image signal fader comprising in combination, a pair of amplifier tubes having separate input circuits and common cathode follower output circuits, a pair of control tubes, each of said control tubes connected in parallel with said output circuits, a source of bias for said tubes, a pair of means mechanically coupled differentially to each other and to a single control means for simultaneously changing the control electrode bias on one of said amplifier tubes and

on one of said control tubes in one direction and at the same time simultaneously changing the



control electrode bias on the other of said amplifier tubes and the other of said control tubes in the other direction.

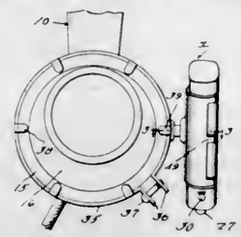
2,610,261
NEUTRALIZATION OF HIGH GAIN AMPLIFIERS
George D. Wofford, Towson, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application May 23, 1947, Serial No. 749,986
2 Claims. (Cl. 179—171)



2. In an amplifier of wave signal energy comprising a vacuum tube having at least a cathode, a control electrode, a screen electrode and an anode in the order named; a source of screen and anode voltage for said tube; a tuned load and a resistor serially connected between said anode and said source; said screen electrode being connected to the junction of said tuned load and said resistor so that said resistor is serially connected between said screen electrode and said source; the value of said resistor being so selected that the voltage drop across it will reflect across the input of said amplifier a resistive component of impedance of such magnitude and sense as to neutralize the resistive component of the input impedance thereof due to capacitive feedback to said control electrode from said anode; and said source and resistor providing the path of lowest impedance between said screen grid and said cathode.

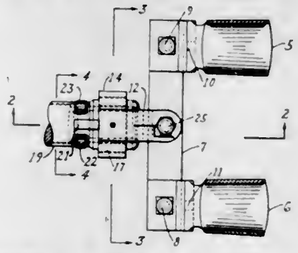
2,610,262
TELEPHONE LIGHT MOUNTING
Orville A. Cunningham, Maywood, Calif.
Application February 23, 1949, Serial No. 77,777
4 Claims. (Cl. 179—178)

1. In combination with a telephone mouthpiece and receiver combination including a mouthpiece housing of circular shape having an open end, a curved shield overlying the open end of said housing and a cover including an annular ring portion threaded onto said housing at the open end of the latter and marginally engaging said shield, a flashlight assembly comprising a split circular band embracingly engaging the ring portion of said cover and having an aperture therein and a raised portion surrounding said aperture, a resilient clip having an aperture therein and a raised portion surrounding the aperture therein, the raised portions of said band and said clip being convexly opposed, a



fastener extending through the apertures in said and said clip pivotally connecting the latter to the former, a spacing sleeve surrounding said fastener between said raised portions and maintaining said clip spaced from said band, and a flashlight supported in said clip.

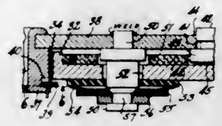
2,610,263
CURRENT COLLECTOR
Jerry E. Tong and Mike McBiles, Carlsbad, N. Mex.; said Tong assignor to International Minerals & Chemical Corporation, a corporation of New York
Application March 22, 1949, Serial No. 82,862
2 Claims. (Cl. 191—57)



1. A current collector for supplying electrical current and adapted to contact two overhead wires for trolley equipped vehicles which comprises, two metal conducting shoes whose contact surfaces are concave, secured to a bar of non-electrical conducting material and spaced at a distance substantially equal to that distance between the overhead wires, said bar being connected at its approximate center to spaced shank members by a pivotal connection, a trolley pole, a sleeve bearing positioned to permit rotation in the vertical plane having one member connected to said pole and the member free-to-rotate connected to said shank members and torsion stop means affixed to the member of said sleeve bearing which is free to rotate and extending between torsion control lugs positioned on the nonrotatable portion of said sleeve bearing.

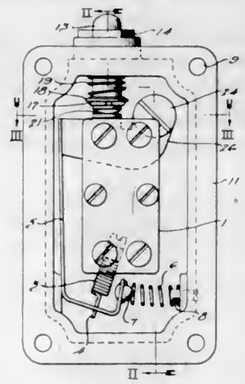
2,610,264
IGNITION APPARATUS
John T. Fitzsimmons, deceased, late of Anderson, Ind., by Edna M. Fitzsimmons, executrix, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Michigan
Application March 15, 1949, Serial No. 81,433
4 Claims. (Cl. 200—31)

1. An ignition timer comprising a housing, an engine driven rotary cam supported by the housing, a fixed plate attached to the housing and providing a bearing concentric with the axis of the cam, a rotatable plate supported laterally by the fixed plate and having a bearing received by the fixed plate bearing, a circuit breaker attached to the rotatable plate and including fixed and movable contacts and a movable member carrying the movable contact, a spring urging the movable member into contact closing position and a rubbing block carried by the movable



member engageable with the cam on one side thereof, and a leaf spring disposed in a recess in one of the bearings on a radial line through said rubbing block and interposed between the fixed and movable bearings, said leaf spring being of a length greater than the circumferential length of the recess for causing the spring to bulge outwardly of the recess for causing the leaf spring to act as a cushion between the fixed and movable bearings to take up impulses created by the cam striking the rubbing block.

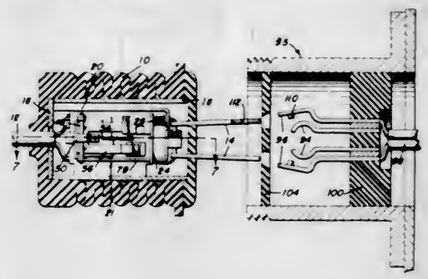
2,610,265
ELECTRIC SWITCH
Carl A. Schaefer, Milwaukee, Wis., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application April 29, 1949, Serial No. 90,441
11 Claims. (Cl. 200—47)



1. In a limit switch, electrical switching means, a movable actuator for said switching means, an operator for said actuator, rotatable means, and means eccentric to the axis of rotation of said rotatable means and movable thereby to shift the position of said actuator upon rotation of said rotatable means to change the normal position of said operator.

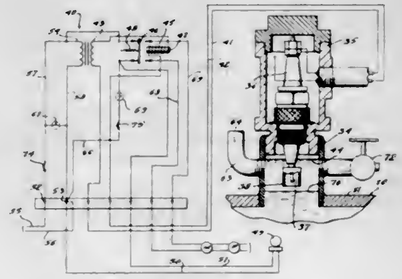
2,610,266
PLUG AND RECEPTACLE
Orion S. Greeson, Elizabeth, N. J.
Application February 2, 1951, Serial No. 209,073
10 Claims. (Cl. 200—51.09)

1. A plug comprising a resilient casing, a sleeve in said casing, a disk secured to said casing adapted to engage said sleeve, an extension cord secured to said disk, a switch secured to said sleeve, prongs secured to said casing and extending therefrom, conductors completing an operative electrical circuit between said prongs and



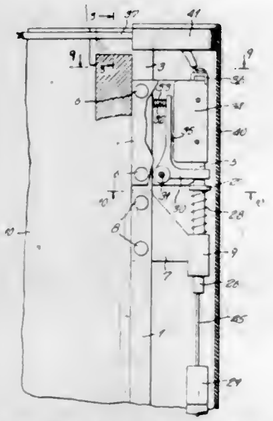
said extension cord, and an actuation arm secured to said disk for actuating said switch upon displacement of said disk from engagement with said sleeve.

2,610,267
FUEL OIL HEATER WITH MEANS FOR PREVENTING ENTRAINMENT OF FUEL OIL WITH THE CIRCULATING MEDIUM
Henry F. Yula, New York, and Ralph W. Yula, Flushing, N. Y., assignors to Yula Water Heaters, Inc., New York, N. Y., a corporation of New York
Application February 28, 1951, Serial No. 213,182
5 Claims. (Cl. 200—52)



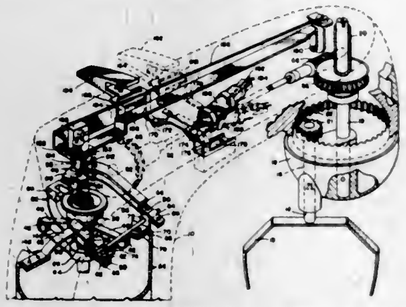
1. In a fuel oil heater, a shell having inlet and outlet openings, a plurality of tubes arranged in said shell for circulating fuel oil admitted through said inlet and discharged through said outlet, said shell having a circulating liquid inlet at the rear end thereof for admitting heated circulating liquid for heating the fuel oil circulating in said tubes, a tubular extension depending from said shell adjacent the forward end thereof and having an outlet, and said tubular extension providing a discharge chamber for reducing the velocity of the flow of the heated circulating liquid prior to the discharge thereof through said outlet to thereby permit fuel oil which may escape from ruptures in said coils and entrained with the circulating liquid to flow to the top of the shell, and a circuit breaker carried by the shell and having spaced electrical terminals located above the discharge chamber and normally closed through the circulating liquid and said circuit breaker being adapted to be opened by fuel oil escaping from a rupture in the coils flowing to the top of the shell and displacing the liquid between said terminals.

2,610,268
SENSITIVE DOOR EDGE DEVICE
Wallace Hamilton, Albany, N. Y., assignor to Consolidated Car-Heating Company, Inc., Albany, N. Y., a corporation of New York
Application April 29, 1948, Serial No. 24,080
4 Claims. (Cl. 200—54)



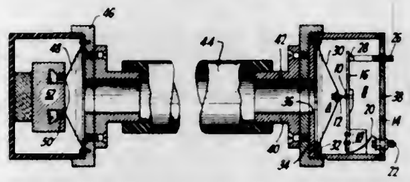
1. In a sensitive door edge device, the combination comprising a single support adapted to be attached at the leading edge of a door, a flexible cable, means for mounting said cable on said support under tension, a control device mounted on said support to be actuated when said cable is deflected under pressure, a plurality of levers pivotally mounted on said support and straps attached to the ends of said levers and enclosing the adjacent portions of said cable, said support and cable being made of materials having substantially the same coefficient of thermal expansion.

2,610,269
GOVERNOR SWITCH MECHANISM
Walter Van Guilder, River Forest, Ill., assignor to General Mills, Inc., a corporation of Delaware
Application February 27, 1950, Serial No. 146,575
12 Claims. (Cl. 200—80)



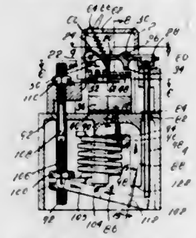
1. Governor mechanism comprising a shaft rotatable at different speeds, an annular collar of magnetically permeable material of low retentivity concentrically mounted on the shaft and movable axially thereof in response to changes in the speed of rotation of the shaft, a speed control member independently mounted adjacent the shaft for movement substantially parallel to and coextensive with the range of movement of the collar, means for manual adjustment of the speed control member along said range of movement, a contact arm mounted on the speed control member for relative movement along said range parallel to said shaft, a magnet mounted on the contact arm and having its poles opposite the collar, movement of the collar in response to changes in shaft speed causing corresponding movement of the magnet and contact arm, and a switch having first and second contacts, one of which is located on the contact arm while the other is located on the control member.

2,610,270
CHOPPER
Curtiss R. Schafer, Ridgefield, Conn.
Application September 3, 1949, Serial No. 114,055
5 Claims. (Cl. 200—87)



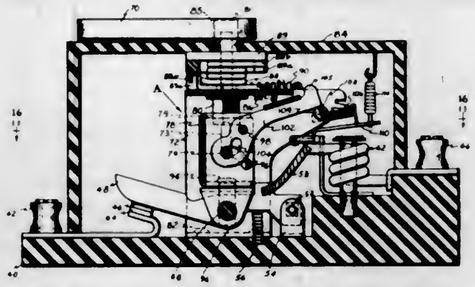
1. A chopper for converting direct current of low level into intermittent current to facilitate amplification, including a stationary contact and a movably mounted contact, a shielding structure of magnetic material substantially enclosing said contacts, an electromechanical vibratory actuating device external of said shielding structure, and means transmitting actuating stress from said actuating device to said movably mounted contact, said means including electrical insulating material penetrating said shield.

2,610,271
THERMAL-MAGNETIC RELAY
John D. Russell, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 1, 1948, Serial No. 24,623
14 Claims. (Cl. 200—88)



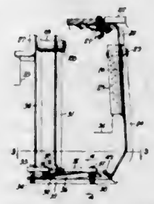
12. In electrical apparatus, a pair of contacts, a bridge member movable into and out of engagement with the contacts to make and break respectively a circuit therebetween, magnetic means including two relatively movable members normally attracted to each other to maintain a substantially constant contact pressure between the bridge member and said contacts so long as the circuit between the contacts remains closed by the bridge member, a magnetizable member biased to move the bridge member out of engagement with the contacts and mounted to be held against such movement by one member of the magnetic means, the magnetizable member being of a material which becomes non-magnetic at elevated temperatures, and a heater adapted under predetermined circumstances to raise the temperature of the magnetizable member to such a value that said member becomes non-magnetic.

2,610,272
CIRCUIT BREAKER
Elwood T. Platz, Detroit, Mich., assignor to Bulldog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application November 17, 1948, Serial No. 60,549
10 Claims. (Cl. 200—89)



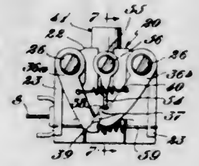
1. In a circuit breaker having a contactor arranged for vertical movement and an actuator arranged for horizontal movement, means for interconnecting said actuator and contactor to translate horizontal movement of said actuator into vertical movement of said contactor, said means including a cylinder slidably but nonrotatably connected to said actuator, and rotatably but nonslidably connected to said contactor, the cylinder being arranged to rotate on a vertical axis, a stationary frame, spiral slot and pin means normally interconnecting the cylinder and frame in such a way that as the cylinder slides vertically it is normally required to rotate on a vertical axis, and as it rotates it normally slides vertically, latch means for normally restraining the pin means from vertical movement and thus for normally restraining the cylinder from sliding vertically except as it is rotated by the actuator, and circuit responsive means for releasing said latch means to free the pin means and thus free the cylinder to slide vertically without rotating and thus without causing or requiring the actuator to rotate.

2,610,273
SAFETY TIMING SWITCH
Albert L. Judson, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application July 13, 1950, Serial No. 173,616
9 Claims. (Cl. 200—122)



1. In a primary control for an oil burner, a safety timing switch comprising a first bimetal member, a second bimetal member, an electric heater and a switching member, said safety timing switch being of the type in which the timing period is determined by the influence of an electrical heater on a first bimetal member to open said switch and in which a second bi-metal member is used to compensate said switch for the influence of the ambient temperature on said first bi-metal member, and in which a switching member bridges the temperature positioned ends of said two bi-metal members, the improvement wherein said bridging member is supported by an additional resilient biasing member and wherein said bridging member is located with respect to said first bi-metal member by said second bi-metal member against which said bridging member is biased by said biasing member.

2,610,274
SWITCH ACTUATING MECHANISM
Waldo J. Kelleigh, Wayland, Mass., assignor to General Control Company, Boston, Mass., a corporation of Massachusetts
Application June 29, 1949, Serial No. 102,089
16 Claims. (Cl. 200—153)

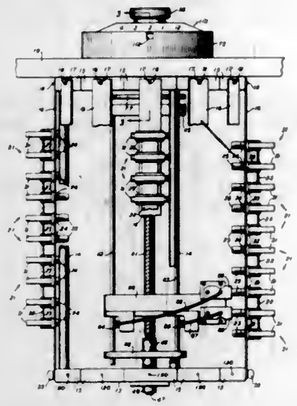


1. A mechanism for operating an associated device comprising two movable members positioned relatively to each other with their respective paths of travel intersecting, one of said members operating said device during its travel, biasing means for urging the members towards one limit of travel of their respective paths, and an actuator mounted for movement in a path intersecting said paths and having a face for contacting and for alternatively moving said members from the biased limit to an opposite limit of their respective paths upon alternately contacting said members with said face during successive strokes of the actuator in its path, said members being arranged so that the first member is moved to said opposite limit by contact with said face during one stroke of the actuator and maintained at such limit by the second member, the succeeding stroke of the actuator in the same direction as the preceding stroke moving said second member to the opposite limit of its path thereby releasing said first member so that it returns to the biased limit of its path wherein it maintains the second member at such opposite limit of its path of travel.

2,610,275
HUMIDITY SELECTOR SWITCH
Louis B. Butterfield, Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 29, 1949, Serial No. 124,425
2 Claims. (Cl. 200—158)

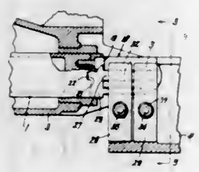
1. In an electrical switch, the combination with a generally cylindrical support and a plurality of strips mounted on the support for positioning specimens to be tested, of a helically threaded shaft centrally positioned for rotation about its axis in the support and held against axial movement, an arm having a bore short of its ends which is helically threaded to engage the shaft threading and allow movement of the arm about the shaft, a pair of contacts mounted on the arm, a plurality of aligned and equi-spaced electrical terminals located on each strip all of which lie in the potential helical path of the arm contacts, bushings of dielectric material disposed in spaced apertures in the arm parallel with the threaded bore, parallel rods of conductive material extending through their respective dielectric bushings, a rotatable knob, means operatively

connecting the knob to the rods whereby rotation of the knob will move the rods in circular paths about the axis of the shaft to establish electrical connection between the pair of arm contacts and



the successive pairs of adjacent terminals on each of the strips in turn, and separate means forming wiping contact with their respective rods electrically connecting the rods to their respective contact.

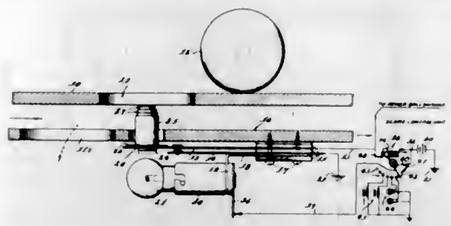
2,610,276
PIVOT END CONTACT FOR ELECTRIC DISCONNECTING SWITCHES
Charles H. Bayer, Wynnewood, Pa., assignor to General Electric Company, a corporation of New York
Application February 15, 1951, Serial No. 211,163
2 Claims. (Cl. 200—166)



1. In combination, a switch blade having dual axis pivotal mounting means at one end for rotation of the blade on both a transverse axis and the horizontal axis of the blade, a current conducting terminal mounted on the one end of the blade and having two sets of diametrically opposed ridges extending parallel with the longitudinal axis of the blade, and stationary contacts mounted on opposite sides of the terminal for engaging one set of diametrically opposite ridges therebetween during the rotation of the blade on the transverse axis and the other set of ridges therebetween upon rotation of the blade on the longitudinal axis.

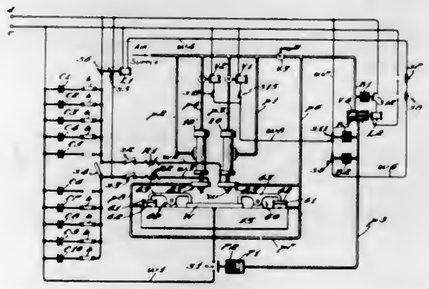
2,610,277
BALL GAME SWITCH
Donald E. Hooker, Skokie, and Robert H. Breither, Mount Prospect, Ill., assignors to Raymond T. Moloney, Chicago, Ill.
Application March 19, 1947, Serial No. 735,656
3 Claims. (Cl. 200—167)

2. An illuminated ball switch comprising plural flat spring switch blades fixed at one end in a mounting stack and adapted to flex to bring their outer free ends into and out of circuit-closing engagement, a particular one of said blades having its free end projecting beyond the ends of the others, said particular free end having means providing a light passage therethrough, and an elongated stud of translucent material having one axial end reduced in diame-



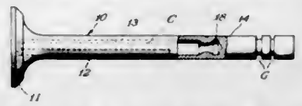
ter to project through said light pasage, means engaging the projecting part of the stud for holding the same on said particular blade end, the opposite free end of said stud projecting substantially beyond the plane of said particular blade for engagement by a ball, means secured in assembly with said blades for supporting a lamp beneath said reduced end of the stud to transmit light through the latter.

2,610,278
PNEUMATIC WELDING GUN AND ASSOCIATED SYSTEM
Harold J. Graham, Highland Park, Mich., assignor to Graham Manufacturing Corporation, Detroit, Mich., a corporation of Michigan
Application March 12, 1949, Serial No. 81,130
10 Claims. (Cl. 219—4)



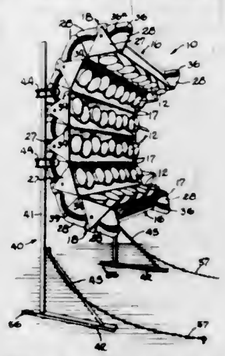
1. A welding system for percussion welding a stud to a workpiece comprising a compressed air supply, a pneumatically operated welding gun connected to said air supply including a cylinder having a piston reciprocatingly disposed therein and a pneumatically operated chuck carried by said piston and adapted to hold said stud, an electric power source connected between said gun and said workpiece, sequence controlling means for admitting air to said chuck and subsequently to said cylinder to move said piston until said stud contacts said workpiece to maintain a welding circuit supplying energy to the point of contact and to maintain said stud in forecable contact with said workpiece until the welding is complete, and pneumatically operated restoring means for returning said piston after the sequence controlling means shuts off the operating air supplied to said cylinder and said chuck upon the completion of the weld.

2,610,279
METHOD OF MAKING POPPET VALVES
Fred T. Perkes, Willoughby, Ohio, assignor to Thompson Products Inc., Cleveland, Ohio, a corporation of Ohio
Application March 17, 1949, Serial No. 81,987
3 Claims. (Cl. 219—10)



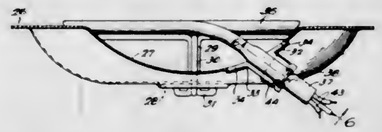
1. The method of simultaneously sealing and tipping a coolant-containing poppet valve having a hollow valve stem open at the tip end which comprises beveling the open end of said stem, inserting coolant in the stem through the beveled open end thereof, spacing the coolant from the open end of the stem, recessing one end of a hard metal tip to provide an annular end face thereon, contacting the beveled end of said stem with the said annular end face of said tip, passing an electric heating current through said contacting end and end face to rapidly bring said end and end face to their respective softening points without substantially heating the coolant in the valve, and jamming said end and said end face together after their respective softening points have been reached to firmly bond said tip to said stem in a welded joint.

2,610,280
INFRARED OVEN CONSTRUCTION
Wesley Wilson, Chicago, Ill.
Application February 26, 1947, Serial No. 731,115
7 Claims. (Cl. 219—34)



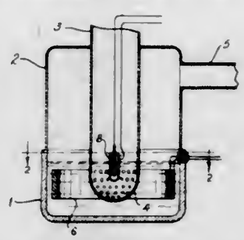
6. In an infrared oven bank, the combination comprising a plurality of parallel elongated fixtures each fixture being trough-shaped and supporting electrical fittings for the reception of heating elements therein, each two adjacent fixtures being disposed with their contiguous longitudinal edges in substantially closed relationship and being pivotally interconnected for relative transverse angular adjustment about an axis extending along and located medially of said edges, each of said fixtures being provided at opposite sides of the troughs and in inwardly offset relation to the opposite ends of the fixtures with generally flat external connecting ears projecting therefrom in planes normal to said axis, the contiguous ears of each two adjacent fixtures being disposed in close overlapping relationship and formed with registering slots arcuate about said axis and clamping means adapted to extend through said slots of said overlapping ears for securing said adjacent fixtures in selected positions of angular adjustment.

2,610,281
ELECTRIC RANGE HEATING ELEMENT SUPPORTING STRUCTURE
Edwin A. Rutenber, Baldwin Lake, and Harley Tillapaugh, Greenville, Mich., assignors to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan
Application May 27, 1949, Serial No. 95,856
2 Claims. (Cl. 219—37)



1. In an electric range, a top equipped with an integral reflector pan depressed below the line of said top and having an opening extending through one side thereof, a support in said pan, an electric heating element carried by said support and having a peripheral edge portion thereof equipped with a rigid post extending through said opening in the side of the reflector pan, and a sleeve rotatably receiving and connected to said post, said sleeve having flanges engaging the inner surface of said reflector pan, and said reflector pan being recessed to receive said flanges whereby the inner surface of the flanges lies flush with the adjacent portions of the inner surface of the reflector pan.

2,610,282
AIR INTAKE PREHEATER FOR AUTOMOBILE ENGINES
Keith M. Brownell, Minneapolis, Minn.
Application November 2, 1949, Serial No. 125,078
3 Claims. (Cl. 219—38)

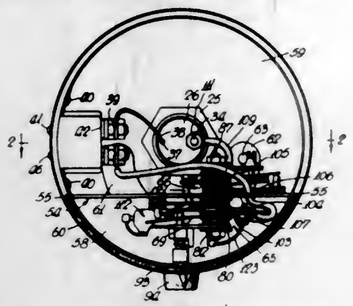


1. An air heater comprising a container having a quantity of oil therein, a closure for said container, an air inlet tube held in said container one end of which tube is immersed in said oil, an air exhaust tube secured to said closure above the level of said oil, means for heating the oil in said container, a circuit for said heating means, means for signalling when said heating means is in operation, means immersed in the oil for regulating the amount of heat to be supplied to said oil; and a switch for said circuit that is opened when the engine on which the heater is mounted is started.

2,610,283
ELECTRIC PERCOLATOR
Emil Kolisch, New York, N. Y., assignor to Continental Silver Co., Inc., a corporation of New York
Application September 28, 1949, Serial No. 118,354
3 Claims. (Cl. 219—44)

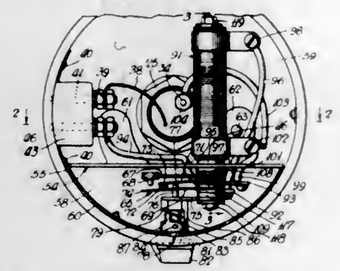
3. A temperature control circuit to control the operation of an electric percolator of the type

having a heating element, said control circuit comprising a resistor in series with said heating element, a normally closed thermostat shunted across said resistor and responsive to the temperature of the receptacle contents, means for adjusting at will the setting of said thermostat whereby said thermostat will open at a selected temperature to remove the shunt across said resistor and reduce the current through said heating element to stop percolation, a normally closed thermostat shunted across a portion of said resistor and responsive to a predetermined desired



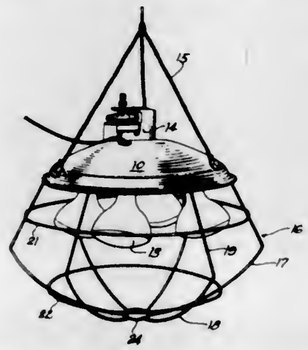
drinking temperature of the receptacle contents whereby upon opening of said first named thermostat the heat evolved by said resistor will increase the temperature of the receptacle contents to the drinking temperature range, and upon opening of both of said thermostats the temperature of the receptacle contents will decrease to the drinking temperature range, said second named thermostat being set intermittently to open and close to maintain the temperature of the receptacle contents within a desired drinking temperature range.

2,610,284
ELECTRIC PERCOLATOR
Emil Kolisch, New York, N. Y., assignor to Continental Silver Co., Inc., a corporation of New York
Application March 23, 1950, Serial No. 151,483
7 Claims. (Cl. 219—44)



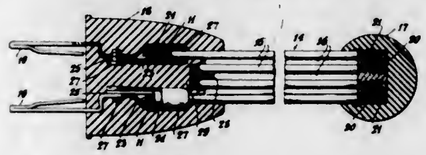
1. In an electric percolator of the type comprising a receptacle having a floor, a base therefor having a cavity therein, and an electric circuit including a heating element for said receptacle; the combination therewith of a partition of heat conducting material in said cavity extending completely thereacross and forming a control chamber therein, said partition being affixed to said floor, extending outwardly therefrom, and being in heat conductive relation to said receptacle so as to derive heat from the contents thereof and substantially barring transfer of heat by radiation, by conduction and by convection from said heating element to said control chamber, a heat responsive switch mounted on said partition in said control chamber and spaced from said floor, said switch being connected to control the operation of said heating element, and a heat insulating mount for said switch, whereby the switch derives heat substantially solely from the heat of the receptacle contents.

2,610,285
SUSPENDIBLE BROODER HEATER WITH TUMBLING FEATURE
William Rusnak, Chicago, and Wilbert G. Stoll, Evanston, Ill., assignors to Afco-Lite Corporation, Chicago, Ill.
Application October 12, 1951, Serial No. 251,022
1 Claim. (Cl. 219—45)



A heater for a chicken brooder comprising a reflector arranged with its active surface directed downwardly, a plurality of electric heat lamps mounted on said reflector to direct heat downwardly, means for suspending said reflector from a fixed support, a thermostat mounted on said reflector for controlling the circuit for said lamps, and a wire guard for said lamps attached to said reflector and having a substantially hemispherical bottom portion and substantially straight portions connecting said substantially hemispherical portions to said reflector, and said heater as a unit having a center of gravity laterally displaced from its geometrical vertical axis, whereby when the heater is lowered to the floor it is caused to roll over on its side and remain in that position.

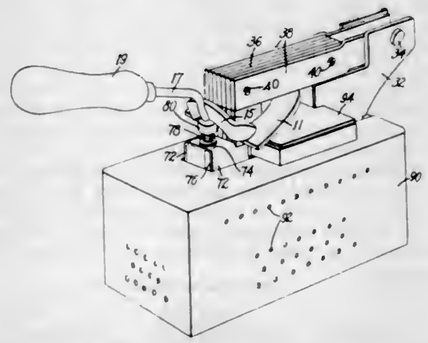
2,610,286
ELECTRIC HEATING ELEMENT
Duncan B. Cox, Woodbury, N. Y.
Application April 22, 1949, Serial No. 88,949
3 Claims. (Cl. 219—46)



1. An electrical heating element comprising a plurality of elongated, attenuated, fragile wires arranged in parallel relationship, separate stress carrying insulating casings substantially non-stretchable in a longitudinal direction in the form of glass fibre tubular braids disposed around the aforesaid wires with the glass fibre strands disposed at a relatively small angle of less than 45° to the longitudinal axis of the braid,

a second unitary casing made for material having a lower modulus of elasticity than the glass fibre tubular braids disposed around the first casings and wires and arranged in the form of a corrugated elongated ribbon, a plug having electrical contacts connected to certain of the wires at one end of the unit, certain of the wires being connected together at the opposite end to provide a complete electrical circuit, and insulating means encasing the wires at the said opposite end of said unit, said plug and insulating means having mechanical connection with the stress carrying insulating casings adjacent the two ends of the unit whereby tensile stresses applied to the two ends of the unit are carried directly by the stress carrying casings.

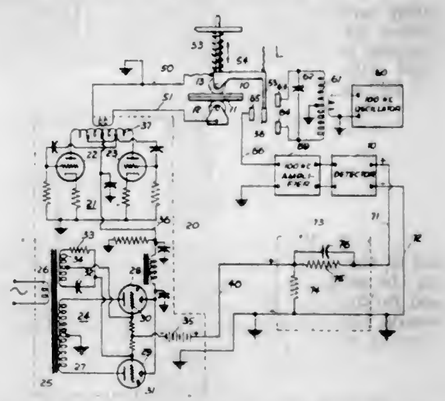
2,610,287
INDUCTIVELY HEATED SHOEMAKING APPARATUS
William Selwyn Robson, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 26, 1949, Serial No. 78,534
In Great Britain March 4, 1948
6 Claims. (Cl. 219—47)



1. In apparatus of the class described, a portable heating tool comprising a closed conductive loop and a handle, a transformer core having a fixed portion and a portion movable with respect to said fixed portion to provide space for admitting said tool into linking relation with said core, a coil on the fixed portion of said core, a spring for urging said movable portion into spaced relation with said fixed portion, and a switch operated by the positioning of the tool in a predetermined position in linked relation with said core for connecting said coil to a supply of alternating current sufficient to close said movable portion by magnetic attraction.

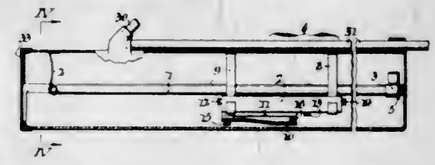
2,610,288
DIELECTRIC HEATING APPARATUS
John M. Cage, Wellesley, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application April 8, 1947, Serial No. 740,219
11 Claims. (Cl. 219—47)

1. The apparatus for heating dielectric materials comprising, a pair of metal electrodes, means normally urging said electrodes together, the dielectric materials to be heated being passed between said electrodes, a controllable variable power output source of high frequency oscillating energy connected across said electrodes, and a circuit responsive to the spacing between said electrodes for controlling the variable power output of said source comprising means for



varying the power input to said source as a direct function of electrode spacing.

2,610,289
ENCLOSED INTERNALLY HEATED ELECTRIC DISCHARGE LAMP LUMINAIRE FOR VARIABLE TEMPERATURE SERVICE
Arthur A. Brainerd, Norwood, Pa.
Application February 23, 1949, Serial No. 77,956
5 Claims. (Cl. 240—11.4)

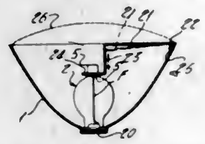


2. An electric discharge lamp luminaire comprising an enclosure, an electric discharge lamp mounted in said enclosure, a reactor coil mounted in said enclosure wholly below the horizontal plane tangential to the bottom of said lamp, with substantially unobstructed free space therebetween, a thermostatic switch mounted adjacent the bottom of said enclosure for response to changes of temperature outside the enclosure, thermal insulating means intermediate said reactor coil and said thermostatic switch, a source of electricity, a lamp-operating circuit including electric conductors connecting said source, directly to the reactor coil and directly to the discharge lamp, and connecting the reactor coil in series with the discharge lamp, and by-pass conductors connecting said thermostatic switch into said lamp-operating circuit through a portion only of said reactor.

2,610,290
PREFOCUSED HEAD LAMP BULB MOUNTING
Reginald K. Braunsdorff, East Orange, N. J., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware
Application December 18, 1948, Serial No. 66,009
4 Claims. (Cl. 240—41)

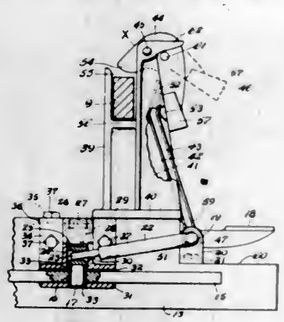
1. In an electric headlamp, a metallic reflector having an axial recess formed at the rear and on the interior thereof and an electric incandescent filament lamp having the bulb thereof sealed to a closing plate member conforming to and mounted in said recess and at least one filament in the lamp bulb mounted in predetermined re-

lation with respect to the periphery and the bottom of the plate member so as to have the filament accurately mounted at a predetermined point with respect to the focus of the reflector and spring holding means engaging the opposite



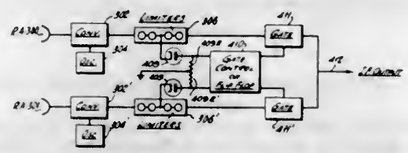
end of the bulb and biasing it inwardly and holding the same in fixed position, said spring biasing and holding means forming electrical connecting means for energizing the lamp and the reflector forming a ground connection for the lamp.

2,610,291
SAFETY LOCK FOR RAILWAY SWITCHES
James W. McGarry, Cincinnati, Ohio
Application July 27, 1950, Serial No. 176,155
4 Claims. (Cl. 246—401)



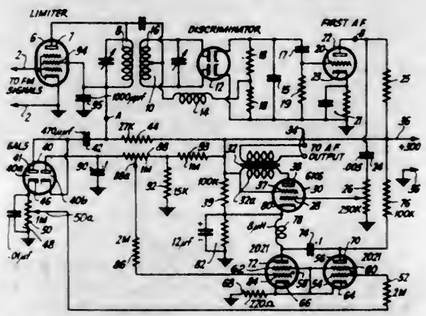
1. Railway switch-point control apparatus for application to a rail tie having one end cut away downwardly and outwardly to the end of the tie, to provide a depressed open-sided flat seat as wide as the width of the tie, said apparatus comprising in combination: a switch-point locking bar connected to and movable with a switch-point, said bar disposed beneath the level of the upper face of the tie for reciprocation lengthwise of the tie, stop means on the bar remote from the switch-point, an upright movable locking element, a housing including guide means for the locking element and for the bar, the guide means having an interconnecting opening through which the locking element extends to engage the stop means on the bar, means for mounting the housing upon the tie at a location remote from the cut-away portion of the tie, a treadle bracket separate from the housing aforesaid, and means mounting the treadle bracket upon the tie within the cut-away area of the tie, a rock shaft extending transversely of the tie and journalled upon the treadle bracket for rocking movement upon an axis transversely of the tie and below the upper face of the tie, a treadle fixed transversely to the rock shaft, and an arm fixedly related to said shaft at approximate right angles, said arm having a free end loosely engaging the locking element, the treadle and the arm extending in opposite directions from the rock shaft lengthwise of and below the upper face of the tie, with the arm disposed alongside of the tie, whereby downward depression of the treadle for movement in an upright plane extending generally lengthwise of the tie, serves to lift the free end of the arm and the locking element, to release the locking bar for movement with the switch-point.

2,610,292
FADING COMPENSATION RADIO SIGNALING SYSTEM
Donald S. Bond, Philadelphia, Pa., and Leland E. Thompson, Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 12, 1946, Serial No. 653,726
7 Claims. (Cl. 250—6)



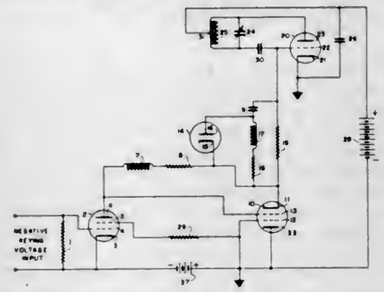
4. In a wavelength modulation diversity receiving system having means producing two signal voltages representative of the same signal but varying in qualitative sense, means individually limiting the amplitude of said voltages, and an output channel, means to select the better of the two voltages including an electronic gate coupled between each of said limiting means and said output channel, an electronic flip-flop circuit coupled to said electronic gates, a rectifier circuit coupled to each of said limiting means to produce a potential proportional to the amplitude of the respective signal voltage at the output of said limiting means, a potential combining circuit interconnecting said rectifier and said flip-flop circuit to apply a control potential thereto to actuate said electronic gates to apply the signal voltage of greater amplitude only to said output channel.

2,610,293
SIGNAL RESPONSIVE RECEIVER
George D. Hanchett, Jr., Millburn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 14, 1948, Serial No. 8,338
16 Claims. (Cl. 250—20)



1. An electrical circuit comprising a source of signal voltage, an amplifier stage having a first space discharge device provided with control means connected to said signal source, a direct current voltage supply circuit for said first space discharge device, a trip circuit comprising second and third space discharge devices having corresponding space current conducting electrodes, means interconnecting said corresponding electrodes and operative to render either one of said space discharge devices conductive to the exclusion of the other, said direct current voltage supply circuit, said first space discharge device and one of said space current conducting electrodes being serially connected, a first means connected to said signal voltage source to derive a positive control voltage representative of random signals, a second means connected to said source to derive a negative control voltage representative of said random signals, a first conductive circuit connected between said first means and said third discharge device to render said third discharge device conductive in the presence of said random signal voltages, and a second conductive circuit connected between said second means and said second discharge device to maintain said second discharge device non-conductive in the presence of said random signals.

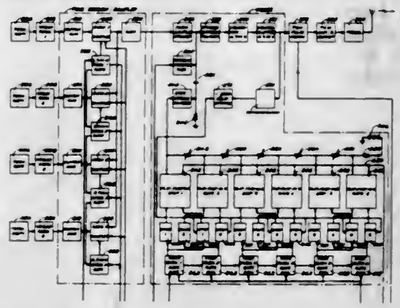
2,610,294
VACUUM TUBE KEYING CIRCUIT
John Carl Seddon, Washington, D. C.
Application June 13, 1945, Serial No. 599,291
5 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a vacuum tube having control grid means, a source of supply voltage connected to said vacuum tube, a negative blocking voltage connected to said grid means, said negative blocking voltage including means operative intermittently to apply a positive voltage shift to the grid means and effect grid current conduction; a grid leak return circuit including a condenser connected between the negative blocking voltage and the grid means, said condenser disposed to accumulate a charge proportional to the flow of grid leak current during operation of the vacuum tube; and impedance means operative to limit the rate of flow of grid leak current into the condenser; the charge on the condenser accumulated during the vacuum tube operation being effective on termination of the positive voltage shift as additional blocking bias for the vacuum tube.

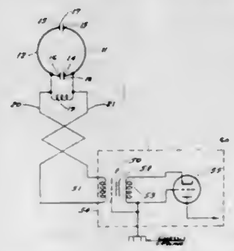
2,610,295
PULSE CODE MODULATION COMMUNICATION SYSTEM
Robert L. Carbrey, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 30, 1947, Serial No. 783,187
6 Claims. (Cl. 250—27)

1. In a decoder for binary code groups comprising a plurality of code elements each representing a different portion of the amplitude of the wave form to be transmitted, means for each code element for generating a voltage drop proportional to the amplitude portion represented by said code element, a double stability circuit for each code element controlling in one condition of stability the energization of said generating means for the corresponding code element, means for initially switching each of said double stability circuits to the voltage generating condition, means for applying the received code element signals to the double stability



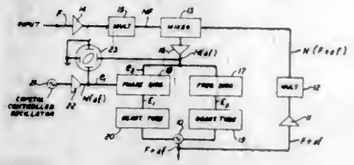
circuits controlling the voltages representing the same amplitude portions as the code element signals and means responsive to said code element signals for switching the corresponding double stability circuits to their other condition of stability.

2,610,296
ELECTROMAGNETIC WAVE INTERCEPTOR
John Drysdale Reid, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application January 13, 1950, Serial No. 138,320
5 Claims. (Cl. 250—33.67)



1. A television receiver antenna system comprising the combination of a magnetic pickup device formed of a pair of conductors symmetrically arranged in a loop configuration, each of said conductors having two terminals, said loop having a diameter of $\frac{1}{10}$ or less of the wave length of the mean-frequency television signals to be received, a capacitor connected to a pair of adjacent terminals of said loop to tune the circuit comprising the capacitor itself and the loop to the geometrical mean of the band of television signals to be received, a resonant circuit comprising a parallel capacitor and inductor connected to the remaining pair of adjacent terminals of said loop, said resonant circuit being independently tuned to said geometric mean, said resonant circuit and the circuit comprising said loop constituting a band pass selector network, a balanced input receiver circuit and a twisted-pair transmission line connected between said inductor and said receiver circuit, said input circuit and transmission line cooperating to confine wave interception to said pickup device, and the dimensions of said pickup device being such as to render it substantially sensitive to the magnetic field only.

2,610,297
AUTOMATIC FREQUENCY CONTROL CIRCUIT
Daniel Leed, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 14, 1948, Serial No. 65,130
10 Claims. (Cl. 250—36)



1. A system for automatically maintaining the frequency of the voltage of a variable oscillator locked at a predetermined fixed difference from the frequency of a reference voltage source, comprising a frequency discriminator for producing a voltage in accordance with changes in the frequency of a component preselected from the combined oscillator and reference voltages, a voltage source of standard frequency, a phase discriminator for producing a voltage in accordance with changes in the relative phase between said standard voltage and said preselected component, and means activated by said two discriminator output voltages for varying the frequency of said oscillator, said two discriminator output voltages having the form

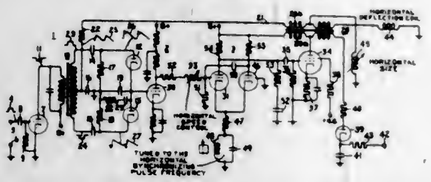
$$E_1+E_2=m(\Delta\theta)+a\frac{d(\Delta\theta)}{dt}$$

in which E_1 and E_2 are the voltages applied to said activated means from said phase and frequency discriminators, respectively; m and a are the slope constants of the characteristics of the phase and frequency discriminators, respectively; $(\Delta\theta)$ is the change of relative phase between the standard voltage and preselected component; $m(\Delta\theta)$ is proportional to such phase change; and

$$a\frac{d(\Delta\theta)}{dt}$$

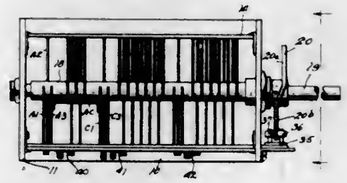
is proportional to the derivative of such phase change.

2,610,298
STABILIZED SAW TOOTH OSCILLATOR
Theodore V. Zaloudek, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application December 26, 1947, Serial No. 793,944
5 Claims. (Cl. 250—36)



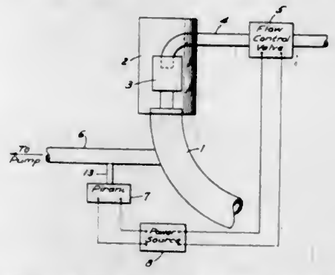
2. In combination, a synchronizable, cathode ray tube deflection oscillator of the multivibrator type having a predetermined free-running frequency, a source of synchronizing impulses recurring at substantially the same frequency, rectifying and comparing means for comparing the phase between the output of said oscillator and said synchronizing impulses and for developing a unidirectional control potential dependent in magnitude upon said phase, means for applying said control potential to said oscillator to control the frequency of said oscillator, and means comprising a resonant circuit tuned to the frequency of the synchronizing impulses and included in a frequency-determining circuit of said oscillator to stabilize the free-running frequency of said oscillator at substantially the frequency of said synchronizing impulses.

2,610,299
ELECTRICAL APPARATUS
Robert R. English, Chicago, Ill., assignor to Oak Mfg. Co., Chicago, Ill., a corporation of Illinois
Application August 12, 1950, Serial No. 179,059
6 Claims. (Cl. 250—40)



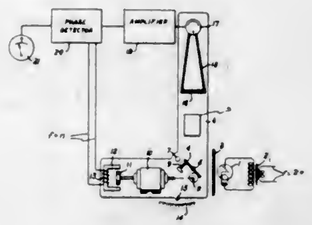
1. A tuner of the inductance type for high frequency circuits, said tuner comprising a frame, a shaft rotatively secured in said frame, stator elements supported in said frame, each stator element comprising a flat loop of metal, rotor elements insulatingly carried by said shaft, each rotor element comprising a conducting plate adapted to move in its own plane for coupling with at least one inductance loop, the planes of the stator and rotor elements being parallel, said tuner having at least two tuning sections, one tuning section being for use in an oscillator and the other tuning section being for use in a mixer circuit, and a metallic connection between one rotor element of the oscillator section and a rotor element of the mixer section.

2,610,300
FLOW CONTROL
Wilson W. Walton, Oak Ridge, Tenn., and Richard C. Bowers, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application August 7, 1951, Serial No. 240,738
13 Claims. (Cl. 250—41.9)



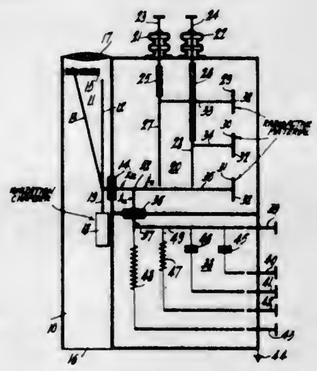
1. A vapor flow control system of the character described comprising a mass spectrometer, a pressure responsive gauge within the spectrometer responsive to pressure conditions therein for producing signals, a power supply responsive to signals from said gauge for operation, and a flow control valve actuated by said power for regulating the flow of vapor to said spectrometer.

2,610,301
X-RAY PHOTOMETER
Charles A. Hansen, Jr., Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application March 27, 1951, Serial No. 217,850
2 Claims. (Cl. 250—52)



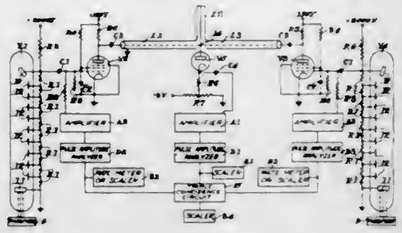
1. An X-ray photometer comprising a source of pulsed collimated X-rays, monochromatizing means positioned to intercept said X-rays including a crystal pivotally mounted on an axis perpendicular to the longitudinal axis of the column of X-rays, said crystal being mounted such that the average angular position thereof may be gradually varied; a motor for oscillating said crystal a determinable amount about said pivotal axis; means indicating the mean angular position of said crystal; a fluorescent screen positioned to intercept the column of X-rays refracted by said crystal; transducing means positioned to be energized by light from said screen and to transform the energy of said light into electric energy, and electric means connected to indicate the difference in the magnitudes of the output of said transducing means at the opposite maximum excursions of said crystal through any mean angle.

2,610,302
RADIATION INTENSITY METERING SYSTEM
Schuyler Medlock Christian, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 14, 1950, Serial No. 184,873
10 Claims. (Cl. 250—83.6)



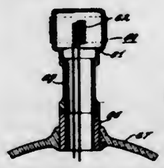
1. In combination: an electroscope and an ionization chamber and electrode means including a quantity of a radioactive isotope connected to a common point and an impedance device connected between said common point and a point of reference potential with respect to said isotope.

2,610,303
COINCIDENCE CIRCUIT
Robert E. Bell, Deep River, Ontario, Canada, assignor to National Research Council, Ottawa, Ontario, Canada, a body corporate of Canada
Application October 23, 1950, Serial No. 191,715
8 Claims. (Cl. 250—207)



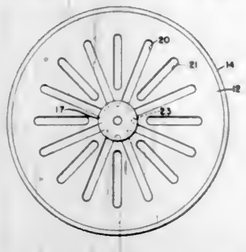
1. A dual coincidence circuit having inputs for electrical pulses from two sources, comprising means connected to each of said inputs for limiting the amplitude of the pulses received at each of said inputs to a predetermined value, pulse terminating means for terminating each pulse from each of said sources after a predetermined lifetime, dual coincidence mixer means arranged to be biased to supply an output pulse only for coincident input pulses whose combined value is greater than a predetermined magnitude, said pulse terminating means having its input connected to the outputs of the amplitude limiting means and having its output connected to the input of said mixer means, a first pulse amplitude analyzer, said mixer means having its output connected to the input of the first pulse amplitude analyzer, a triple coincidence circuit having a first input connected to the output of the first pulse amplitude analyzer, second and third pulse amplitude analyzers having their inputs respectively connected to the outputs of the one and of the other of said sources and having their outputs respectively connected to the second and third inputs of the triple coincidence circuit, and pulse indicating means connected to the output of the triple coincidence circuit.

2,610,304
THIN-WALLED TUBING FOR USE AS ELECTRODE STRUCTURES OF ELECTRON DISCHARGE DEVICES
Lloyd P. Garner and William N. Parker, Lancaster, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application March 31, 1948, Serial No. 18,114
3 Claims. (Cl. 313—43)



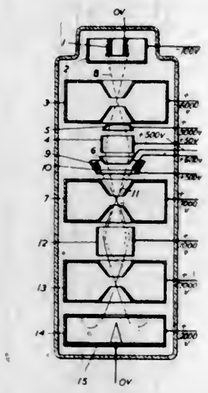
2. A cathode support member formed of a hollow cylindrical one piece body, having relatively thick end portions and an intermediate extremely thin elongated portion of substantially less external diameter than that of the end portions, said end portions being from ten to several hundred times as thick as said intermediate portion said thin portion functioning as heat isolating means between said thick portions.

2,610,305
CONTROL ELECTRODE FOR DISCHARGE TUBES
Ward W. Watrous, Jr., Chatham, N. J., assignor to Chatham Electronics Corporation, Newark, N. J., a corporation of New Jersey
Application January 5, 1951, Serial No. 204,602
6 Claims. (Cl. 313—348)



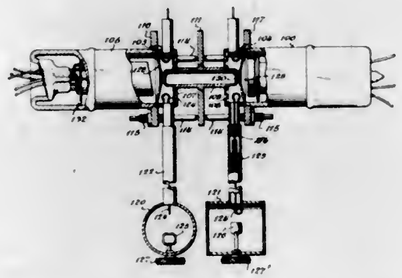
1. A control electrode for electron discharge devices comprising, a flat circular metallic plate having radial slots formed therein, a plurality of said slots extended to intersect one another at a central position thereby forming triangular sectors jointed to each other at the plate periphery, and a supporting structure at the central position for retaining the free ends of the sectors in the plane of the plate while permitting radial movement.

2,610,306
VELOCITY MODULATION TUBE
Emile Touraton and Claude Dumousseau, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 14, 1948, Serial No. 32,975
In France June 14, 1947
12 Claims. (Cl. 315—6)



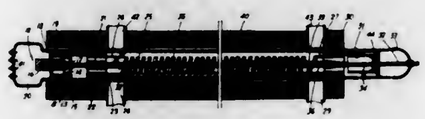
1. A velocity modulation tube, comprising a first electron gun for projecting a first beam along a beam path, a first cavity resonator adjacent said first gun and about said beam path for velocity modulating said first beam, a second electron gun adjacent and beyond said first resonator for projecting a second beam along said beam path, a second cavity resonator adjacent said second gun and about said beam path for extracting energy from said first beam and for velocity modulating said second beam, and a third cavity resonator adjacent said second resonator and about said beam path for extracting energy from said second beam.

2,610,307
TUNABLE CAVITY RESONATOR ELECTRON DISCHARGE DEVICE
William W. Hansen, Stanford University, and Russell H. Varian, Los Angeles, Calif., and Sigurd F. Varian, Garden City, N. Y., assignors to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif., a legal entity of California
Application September 2, 1942, Serial No. 457,096, which is a division of application Serial No. 343,528, July 2, 1940. Divided and this application June 26, 1946, Serial No. 679,548
1 Claim. (Cl. 315—6)



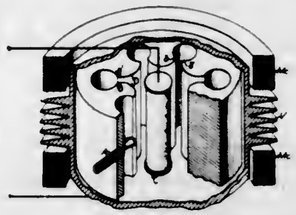
In combination with a high frequency electron discharge tube which includes a cavity resonator, apparatus for adjusting the resonant frequency of said resonator at a point remote from said tube, said apparatus including a second resonator at said remote point having continuously imperforate conductive walls which completely enclose the space within said second resonator except for a single opening which is relatively small with respect to said second resonator; a coaxial transmission line with one end coupled to said first resonator and its other end coupled to said second resonator through said opening, and means for adjusting the reactance of said second resonator, to thereby vary the resonant frequency of said first resonator.

2,610,308
HYPERFREQUENCY ELECTRON TUBE
Emile Touraton and René Zwobada, Paris, France, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application October 1, 1948, Serial No. 52,238
In France October 31, 1947
2 Claims. (Cl. 315—39)



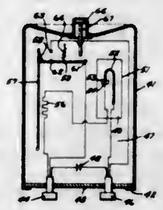
1. A travelling wave vacuum tube comprising in combination means for generating a hollow tubular electron beam for flow along a given path, an helically wound conductor surrounding and coaxial with said beam path, a cylindrical metal electrode inside of and coaxial with said beam path, means for applying a longitudinal magnetic field axially of said beam path substantially co-extensive with the length of said helically wound conductor and means electrically connected to said conductor and said electrode to apply thereto a difference of D. C. potential.

2,610,309
MAGNETRON TUBE FOR THE TRANSMISSION OF ULTRASHORT WAVES
Henri Gutton, Paris, France, assignor to Compagnie Generale de Telegraphie Sans Fil, a corporation of France
Application April 14, 1948, Serial No. 21,067
In France April 18, 1947
5 Claims. (Cl. 315—40)



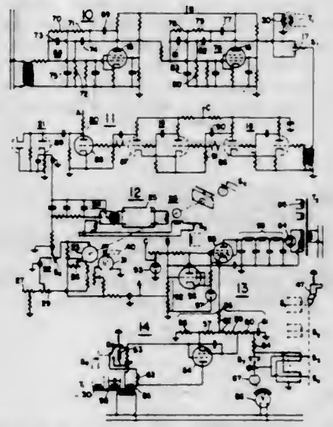
1. Magnetron of the type having cavity resonators comprising in the interior of an air-tight envelope, a single cathode, an anode surrounding said cathode and comprising a plurality of segments extending towards the cathode, and whose section in the plane perpendicular to the cathode axis is bounded by a curve in the form of a hairpin whose apex is directed toward said cathode, and means adjacent said magnetron for producing a magnetic field parallel to the axis of the cathode.

2,610,310
FLUORESCENT STREET LIGHTING SYSTEM
Alfred M. Miles, Spartanburg, S. C.
Application June 2, 1948, Serial No. 30,670
5 Claims. (Cl. 315—100)



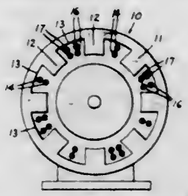
1. A fluorescent lighting system comprising a source of alternating current, a plurality of hot cathode gaseous discharge tubes each having a pair of cathode filaments, said cathode filaments being intercoupled in a series circuit across said source of alternating current, current peaking means in said series circuit, thermostatic make and break starters individual to said tubes of the type having normally closed bimetallic contact means heated on conduction of current therethrough for periodically open-circuiting the contacts for preselected intervals, said contact means being intercoupled across the filaments of the tube associated therewith, and gaseous starters of the type having normally open bimetallic contact means enclosed in an ionizable medium which is ionized on occurrence of preselected break-down voltage across the contacts thereof to close said open contact means for a preselected interval, the normally open contact means of said gaseous starters being connected across the contacts of each of said thermostatic starters, said gaseous starters being ionized to close the contact means thereof on opening of said thermostatic starter contact means intercoupled therewith and failure of their associated gaseous discharge tube to conduct.

2,610,311
SELF-BALANCING, SELF-STANDARDIZING MEASURING SYSTEM
William Earl Phillips, Drexel Hill, and Edward J. Cranch, Bryn Athyn, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 14, 1950, Serial No. 149,612
8 Claims. (Cl. 318—28)



1. A self-standardizing measuring instrument including a measuring slidewire, a standardizing slidewire, a motor normally responsive during successive recording and standardizing periods to effect adjustment of said measuring and standardizing slidewires respectively, switching means operated intermittently to shift between measuring and standardizing, and a time-delay network controlled by said switching means temporarily to disable said motor.

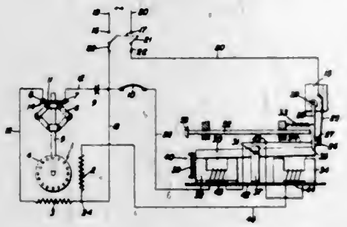
2,610,312
SERVOMOTOR APPARATUS
Perry A. Seay, New York, N. Y., assignor to Reeves Instrument Corporation, New York, N. Y., a corporation of New York
Application February 3, 1949, Serial No. 74,417
6 Claims. (Cl. 318—207)



6. In combination, a reversible alternating current servomotor, a stator therefor having a circumferential array of angularly spaced apart slots, a first winding located in certain ones of said slots through which winding an alternating current of a fixed phase is passed, and a pair of field windings producing a field displaced both mechanically and in electrical phase relationship from the field produced by said first winding, each of said pair of field windings having corresponding turns in the same ones of said slots other than those slots containing said first winding, the relative direction of displacement in electrical phase between said fields determining the direction of rotation of said servomotor, a power amplifier having its output supplied from

the plates of a pair of electron tubes connected in push-pull, the plate connections comprising the first two output connections of said power amplifier, a third output connection through which the D. C. plate supply for said pair of electron tubes is connected, a direct conductive connection between opposite ends of said pair of windings, said last named connection being also directly connected to the third one of said output connections, the said first two output connections being directly conductively connected respectively to the remaining two ends of the said pair of windings whereby the fields due to the D. C. component of the plate current flowing through said pair of windings is balanced out.

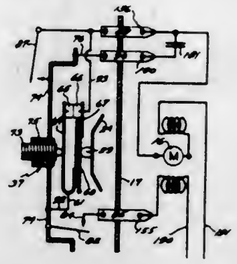
2,610,313
PROTECTIVE ARRANGEMENT FOR SINGLE PHASE MOTORS
Winifred J. Turnupseed, Porterville, and Harley E. Turnupseed, Tulare, Calif.
Application March 23, 1950, Serial No. 151,492
8 Claims. (Cl. 318—221)



1. A protective device for A. C. motors having a running winding and a starting winding and a starting switch comprising current supply lines for said motor, two parallel circuits, each including one of said windings, connected across said supply lines, the circuit of the starting winding also including said starting switch, a thermal overload protective switch in the last named circuit, a protective interrupter in the supply line connected with said circuits, said interrupter including normally closed interrupter contacts and means including a plurality of relay units for operating said contacts, one of said units being an operative unit adapted to operate said means upon occurrence of an overload current in said motor, another unit being a counterbalancing unit, adapted to prevent the operation of said protective means if the overload current flows through both circuits, but restoring the control of the protective means by the first named unit, upon interruption of the starting winding circuit by the starting switch or the thermal overload protection switch.

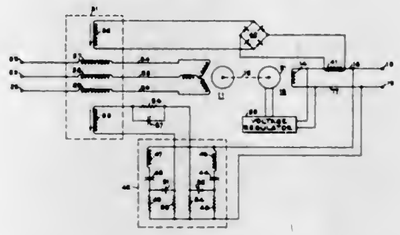
2,610,314
MOTOR SPEED AND CIRCUIT GOVERNING ELECTRICAL SYSTEM
Shirley P. Morse, East Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Original application November 8, 1945, Serial No. 627,479. Divided and this application March 18, 1948, Serial No. 15,616
4 Claims. (Cl. 318—268)

1. In a motor powered electrical appliance, a circuit switching system for variously governing by unitary manual control a motor structurally incorporated in the appliance, embodying in said circuit in combination with the motor, separable motor-speed maintaining contacts, mechanism responsive to changes in speed of the motor operatively related to at least one of said speed maintaining contacts in a manner to open and close the latter repeatedly and automatically, an adjustably movable manual controller settable to different positions within its range of movement, mechanical devices operatively interposed between said manual controller and at least one of said speed maintaining contacts enabling adjustment of said manual controller to vary the extent of separation of said speed maintaining



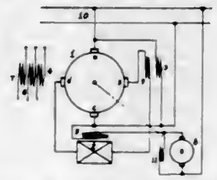
contacts and thereby predetermine the motor speed automatically maintained by said mechanism, motor cut-out contacts in series with said speed maintaining contacts arranged to be opened and closed mechanically by respectively reverse movements of said manual controller in one portion of the latter's said range of movement, and motor power sustaining contacts electrically connected in shunt to said speed maintaining contacts arranged to be opened and closed mechanically by respectively reverse movements of said manual controller in a different portion of the latter's said range of movement.

2,610,315
MOTOR GENERATOR CIRCUIT
John K. McKendry and Raymond L. Garman, Pleasantville, N. Y., assignors to General Precision Laboratory Incorporated, a corporation of New York
Application March 4, 1949, Serial No. 79,558
10 Claims. (Cl. 322—19)



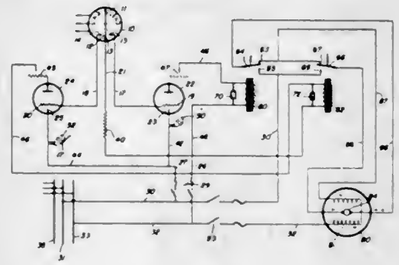
5. A motor generator circuit in which an alternating current motor drives an alternating current generator comprising, variable impedance means connected in the energization circuit of said motor, means magnetically associated with said impedance means for varying the impedance thereof inversely in accordance with the current variation in said generator output and means magnetically associated with said impedance means for varying the impedance thereof in accordance with the variation of frequency of said generator output.

2,610,316
AMPLIFYING DYNAMOELECTRIC MACHINE OF THE METADYNE TYPE
Joseph Maximus Pestarini, Staten Island, N. Y.
Application April 22, 1948, Serial No. 22,575
6 Claims. (Cl. 322—92)



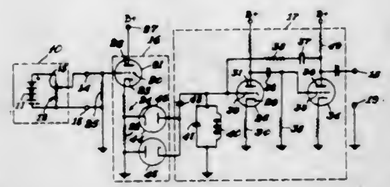
1. An electric system comprising a direct current source, one load circuit and a rotating dynamoelectric machine having an armature associated with a commutator, a pair of non-consecutive primary brushes and a pair of secondary brushes per cycle and a plurality of stator windings, a control circuit including one of said stator windings traversed by a control current and having its magnetic axis substantially coincident with the axis of the flux created by the current traversing the armature through its secondary brushes, means for connecting said primary brushes to said source of current, means for connecting said load circuit to said secondary brushes, whereby said dynamo electric machine amplifies said control current and supplies said load circuit with the amplified current, an auxiliary dynamo for energizing another stator winding with a current varying with the load of said dynamoelectric machine, said other stator winding having its magnetic axis substantially coincident with the axis of the flux created by the current traversing the armature through its primary brushes, whereby said dynamoelectric machine is rotated at a predetermined speed by the electric power derived from said source of current.

2,610,317
POWER FACTOR CONTROLLING AND REGULATING DEVICE
Girard Fowler, Point Pleasant, W. Va.
Application April 8, 1948, Serial No. 19,808
3 Claims. (Cl. 323—105)



1. A power factor controller for polyphase alternating current power lines with a series of power factor correcting devices, connected and disconnected with said power lines by a series of switches operated in succession by a reversible electric motor, said controller further including a power factor meter provided with contacts alternatively closed upon deviation of the power factor from a predetermined value in different directions comprising alternating currents carrying circuits connected with the contacts of the said power factor meter, a grid controlled electronic tube in each of said power factor controlled alternating current circuits, said tube being provided with cathode, plate and grid, the latter being directly connected with one of the power factor meter controlled alternating current circuits, an energizing circuit for each of said tubes, directly connected with the alternating current power lines, the power factor of which is supervised by the power factor meter, a relay and a condenser, the latter connected in parallel to the relay, arranged in the plate circuit of each tube, a relay armature for each of said relays, arranged to adopt two contact positions, two stationary contacts for each relay armature, one for the position of rest and the other for the energized position of the relay, field windings and field circuits and an armature circuit for said reversible electric motor, the relay armatures of the relays being connected with the said armature circuit of the reversible motor, and the rest contacts of both relay armatures, connected in parallel, and with one side of the field winding, the other side of said winding being connected with one of the power lines, while the stationary contacts of the relay armature for the energized position of the same are connected in parallel, both being connected with one of the power lines, the relays thus receiving direct current pulses operating them and when operated changing the relative direction of current flow in the field and armature winding of the reversing electric motor.

2,610,318
ELECTRONIC FREQUENCY MODULATOR
Gilbert R. Clark, Nutley, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application December 3, 1947, Serial No. 789,415
6 Claims. (Cl. 332—30)

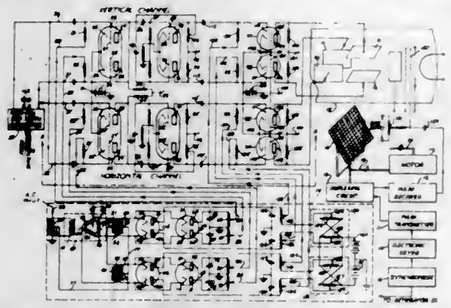


1. A frequency modulation arrangement for converting variable amplitude signals into corresponding frequency-modulated carrier, comprising a variable carrier frequency generator, a tuned oscillatory tank circuit for said generator and including a frequency-determining reactive circuit element which is arranged to be switched into and out of effective relation with said tank circuit, a pair of rectifiers connected to said element to effect said switching, and means to control the conductivities of said rectifiers jointly by said signals and by the alternating peak voltage of said tank circuit.

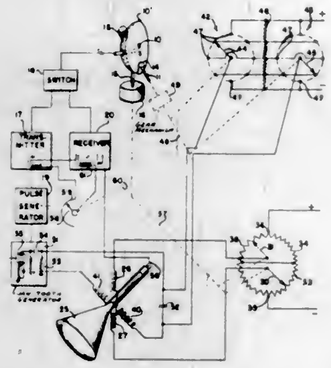
2,610,319
RADIO ECHO APPARATUS
Robert M. Page, Washington, D. C.
Application November 17, 1942, Serial No. 465,919
16 Claims. (Cl. 343—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

4. In combination with a cathode ray tube having a screen, sweep means producing a ro-

tating radial sweep of the cathode ray of said tube, and control means for displacing the center of rotation of said sweep to any desired position relative to the center of the screen.

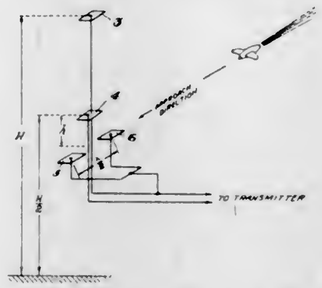


2,610,320
SYSTEM OF RADIO ECHO DETECTION
William M. Hall, Lexington, Mass., assignor to the United States of America as represented by the Secretary of the Navy
Application December 18, 1942, Serial No. 469,474
15 Claims. (Cl. 343—11)



1. A system of radio echo detection comprising, in combination, means to scan a predetermined field in space about two axes with a concentrated beam of electromagnetic radiation, means to intercept radiation reflected back from an object within said field, a screen, means to produce a spot of light on said screen in any one of a plurality of elongated sections of said screen arranged one above the other, means to determine in which of said sections said spot of light will appear by the angle of said radiation beam about one of the axes of scanning, means to determine the position of said spot longitudinally of said section by the angle of said radiation beam about the other of said axes, and means to determine the transverse position of said spot of light in said section by the lapse of time required for said radiation to be reflected back from said object.

2,610,321
GLIDE PATH ANTENNA
Chester B. Watts, Jr., Indianapolis, Ind., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 28, 1948, Serial No. 12,001
15 Claims. (Cl. 343—108)

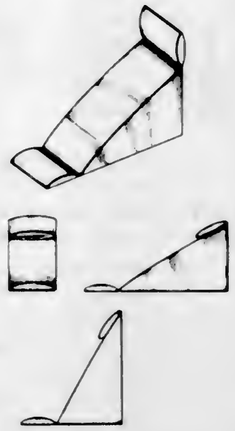


1. An equisignal glide path beacon for guiding a craft vertically to a point on a landing runway comprising upper and lower radiator means spaced to one side of the runway to produce intersecting radiation patterns of distinctive signal characteristics along a course over said runway, an auxiliary directive radiator means mounted adjacent the lower said first radiator means and directive toward said runway to modify the effective distribution of said patterns, and means for modulating energy radiated from said auxiliary radiator with said distinctive signals.

DESIGNS

SEPTEMBER 9, 1952

167,666
TELEVIEWING FLOOR REST
Josephine P. Argento, Chicago, Ill.
Application May 20, 1952, Serial No. 19,802
Term of patent 7 years
(Cl. D15—11)



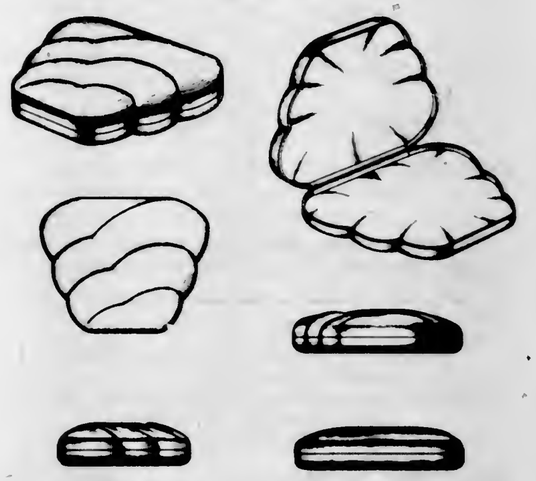
The ornamental design for a televiewing floor rest, as shown.

167,667
REVERSIBLE DRINKING VESSEL
Albert Babany, Cairo, Egypt
Application November 3, 1949, Serial No. 5,852
Term of patent 14 years
(Cl. D36—8)



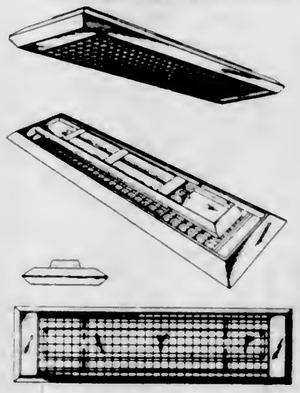
The ornamental design for a reversible drinking vessel, as shown.

167,668
JEWELRY BOX
Frank M. Bedinger, Chicago, Ill., assignor to F. H. Noble & Company, Chicago, Ill., a corporation of Illinois
Application July 8, 1952, Serial No. 20,518
Term of patent 3½ years
(Cl. D80—5)



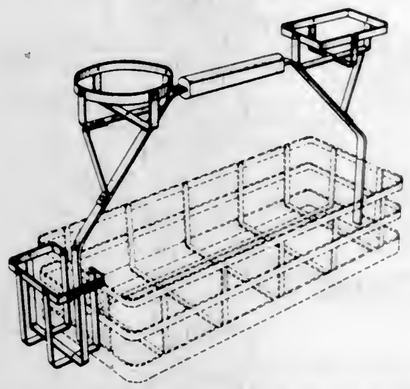
The ornamental design for a jewelry box, substantially as shown.

167,669
LIGHTING FIXTURE
Terence Frederic Peter Bell, Blackheath, Raymond Charles Kember, Croydon, and Leslie Thomas Anderson, Bromley, England, assignors to Thorn Electrical Industries Limited, London, England, a company of Great Britain
Application March 25, 1952, Serial No. 19,050
In Great Britain September 29, 1951
Term of patent 14 years
(Cl. D48—23)



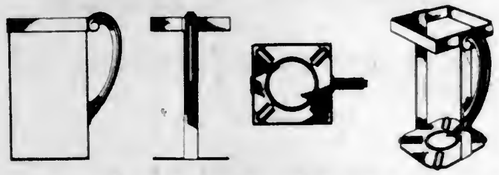
The ornamental design for a lighting fixture, as shown.

167,670
DAIRY PRODUCTS CARRIER
Clarence H. Berglund, Minneapolis, Minn.
Application April 19, 1952, Serial No. 19,405
Term of patent 14 years
(Cl. D23—1)



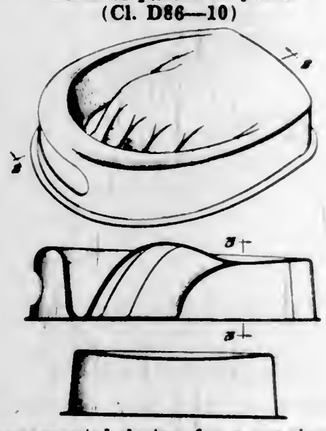
The ornamental design for a dairy products carrier, substantially as shown and described.

167,671
HOLDER FOR MILK CONTAINERS
Joseph V. Biggs, Decatur, Ill.
Application September 7, 1951, Serial No. 16,576
Term of patent 3½ years
(Cl. D44—10)



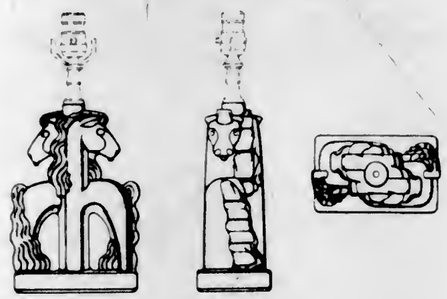
The ornamental design for a holder for milk containers, as shown.

167,672
MANICURIST BOWL
Lester H. Blackburn, Burbank, Calif.
Application February 5, 1952, Serial No. 18,394
Term of patent 14 years
(Cl. D86—10)



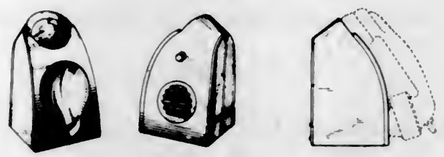
The ornamental design for a manicurist bowl, substantially as shown.

167,673
ELECTRIC LAMP BASE
David Borowitz, Chicago, Ill.
Application May 21, 1952, Serial No. 19,814
Term of patent 3½ years
(Cl. D48—20)



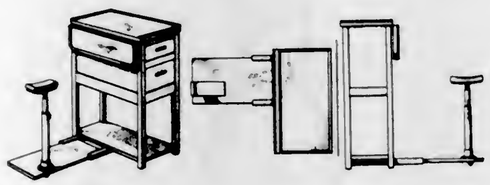
The ornamental design for an electric lamp base, substantially as shown and described.

167,674
TELEPHONE REST
John Charles Sydney Branson, Harborne, Birmingham, England
Application June 5, 1951, Serial No. 15,428
In Great Britain June 8, 1950
Term of patent 14 years
(Cl. D26—14)



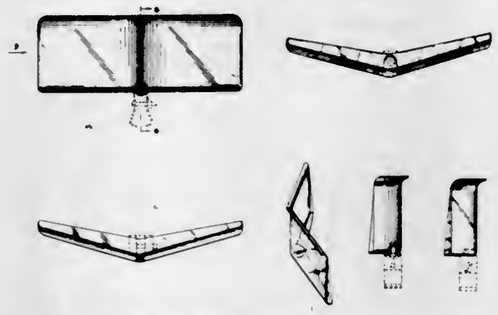
The ornamental design for a telephone rest, as shown and described.

167,675
COMBINATION PEDICURE TABLE AND FOOTREST OR SIMILAR ARTICLE
Pearl M. Chancellor, Dallas, Tex.
Application December 14, 1951, Serial No. 17,725
Term of patent 14 years
(Cl. D32—14)



The ornamental design for a combination pedicure table and footrest or similar article, substantially as shown and described.

167,676
BUG DEFLECTOR
Albert Chicorel, Detroit, Mich.
Application September 19, 1951, Serial No. 16,685
Term of patent 14 years
(Cl. D14—6)

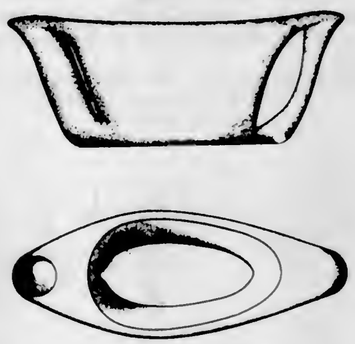


The ornamental design for a bug deflector, substantially as shown and described.

167,677
TEXTILE FABRIC
Walter R. Cuddy, Douglaston, N. Y., assignor to Wm. Simpson, Sons & Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application March 26, 1952, Serial No. 19,059
Term of patent 7 years
(Cl. D92—1)

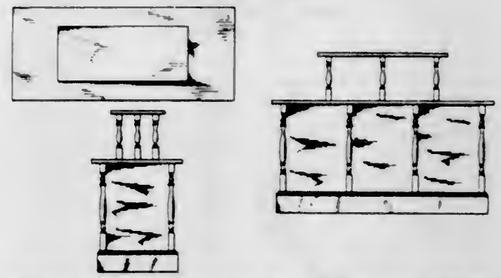
The ornamental design for a textile fabric, as shown.

167,678
SOUP SKIMMER
William C. Denhof, New York, N. Y.
Application August 31, 1951, Serial No. 16,489
Term of patent 3½ years
(Cl. D44—10)



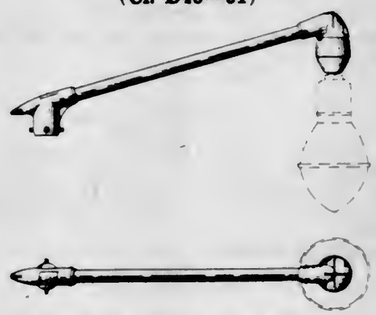
The ornamental design for a soup skimmer, substantially as shown and described.

167,679
DISPLAY CABINET
Leslie S. Dorsey, New York, N. Y., assignor to National Gourmet Shops, Inc., New York, N. Y., a corporation of New York
Application October 31, 1951, Serial No. 17,190
Term of patent 3½ years
(Cl. D80—9)



The ornamental design for a display cabinet, substantially as shown and described.

167,680
LIGHTING FIXTURE
Thayer B. Farrington, Cleveland Heights, Robert K. Farrington, Shaker Heights, and Fred K. Ikeda and Robert P. Mercer, Cleveland, Ohio, assignors to The Thompson Electric Company, Cleveland, Ohio, a corporation of Ohio
Application May 31, 1952, Serial No. 19,971
Term of patent 14 years
(Cl. D48—31)



The ornamental design for a lighting fixture, as shown and described.

167,681
LIGHTING FIXTURE
Thayer B. Farrington, Cleveland Heights, Robert K. Farrington, Shaker Heights, and Fred K. Ikeda and Robert P. Mercer, Cleveland, Ohio, assignors to The Thompson Electric Company, Cleveland, Ohio, a corporation of Ohio
Application May 31, 1952, Serial No. 19,972
Term of patent 14 years
(Cl. D48—31)



The ornamental design for a lighting fixture, as shown and described.

167,682
STOCKING
Max Fisher, Lower Alsace Township, Berks County, and Frederick L. Ireland, West Reading, Pa., assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa., a corporation of Pennsylvania
Application April 9, 1952, Serial No. 19,263
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

167,683
STOCKING
Max Fisher, Lower Alsace Township, Berks County, and Frederick L. Ireland, West Reading, Pa., assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa., a corporation of Pennsylvania
Application April 9, 1952, Serial No. 19,264
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

167,684
STOCKING
Max Fisher, Lower Alsace Township, Berks County, and Frederick L. Ireland, West Reading, Pa., assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa., a corporation of Pennsylvania
Application April 9, 1952, Serial No. 19,265
Term of patent 14 years
(Cl. D47—7)



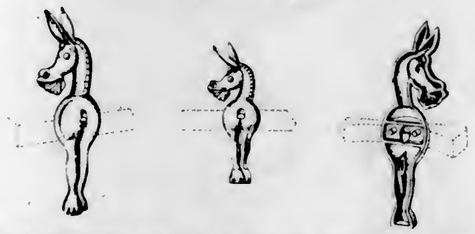
The ornamental design for a stocking, as shown.

167,685
BRASSIÈRE
Sam Gerstein, Brooklyn, and Irving Gerstein, New York, N. Y.
Application September 10, 1951, Serial No. 16,599
Term of patent 14 years
(Cl. D20—4)



The ornamental design for a brassière, substantially as shown.

167,686
CLIP
Marvin I. Glass, Chicago, Ill., assignor to H. Fishlove & Co., Chicago, Ill., a corporation of Illinois
Application February 20, 1952, Serial No. 18,605
Term of patent 14 years
(Cl. D17—10)



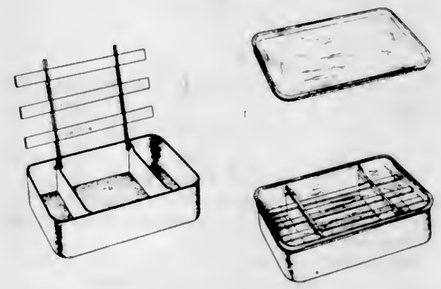
The ornamental design for a clip, as shown and described.

167,687
CLIP
Marvin I. Glass, Chicago, Ill., assignor to H. Fishlove & Co., Chicago, Ill., a corporation of Illinois
Application February 20, 1952, Serial No. 18,606
Term of patent 14 years
(Cl. D17—10)



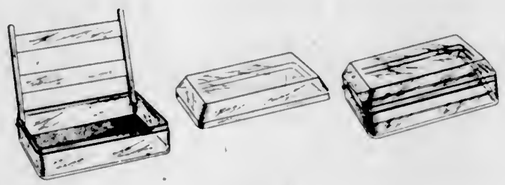
The ornamental design for a clip, as shown and described.

167,688
JEWELRY DISPLAY PACKAGE OR SIMILAR ARTICLE
Julius J. Hommer, Union, N. J.
Application December 26, 1951, Serial No. 17,828
Term of patent 7 years
(Cl. D80—5)



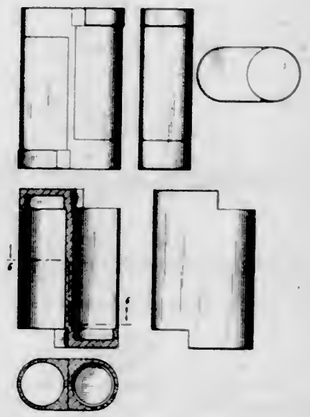
The ornamental design for a jewelry display package or similar article, as shown.

167,689
JEWELRY DISPLAY PACKAGE OR SIMILAR ARTICLE
Julius J. Hommer, Union, N. J.
Application December 26, 1951, Serial No. 17,829
Term of patent 7 years
(Cl. D80—5)



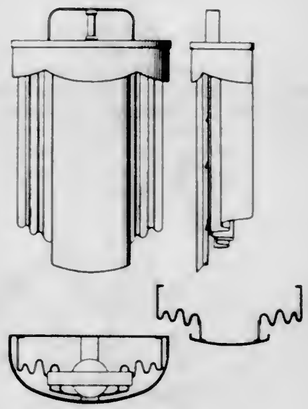
The ornamental design for a jewelry display package or similar article, as shown.

167,690
COSMETIC CONTAINER
Robert Brown Hopgood, Cheshire, Conn., assignor to The Eyelet Specialty Company, Waterbury, Conn.
Application February 6, 1952, Serial No. 18,419
Term of patent 14 years
(Cl. D86—10)



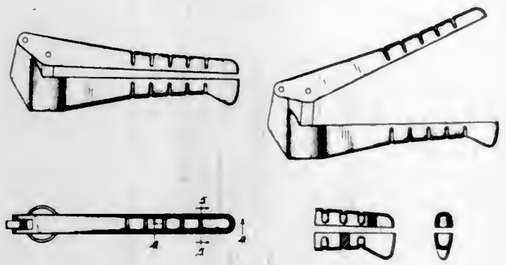
The ornamental design for a cosmetic container, substantially as shown.

167,691
PENDANT FIXTURE FOR SANCTUARY SIDE LIGHTING
Eduard R. Huegel, Brooklyn, N. Y., assignor to Rambusch Decorating Company, New York, N. Y., a corporation of New York
Application April 1, 1952, Serial No. 19,145
Term of patent 14 years
(Cl. D48—4)



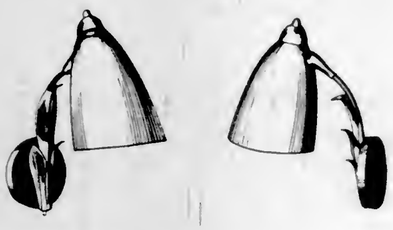
The ornamental design for a pendant fixture for sanctuary side lighting, as shown.

167,692
JUICE EXTRACTOR
James L. Hvale, Chicago, Ill., assignor to Ekco Products Company, Chicago, Ill., a corporation of Illinois
Application April 5, 1952, Serial No. 19,205
Term of patent 7 years
(Cl. D38—1)



The ornamental design for a juice extractor, as shown.

167,693
LAMP
Paul H. Irmischer, Chicago, Ill.
Application May 20, 1952, Serial No. 19,796
Term of patent 3½ years
(Cl. D48—4)



The ornamental design for a lamp, as shown.

167,694
LAMP
Paul H. Irmischer, Chicago, Ill.
Application May 20, 1952, Serial No. 19,797
Term of patent 3½ years
(Cl. D48—20)



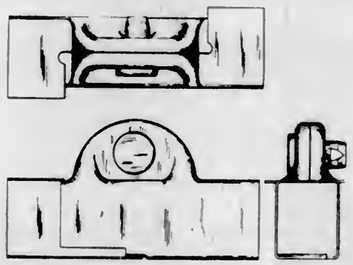
The ornamental design for a lamp, as shown.

167,695
STOCKING
Jacob Dean Isley, Snow Camp, N. C., assignor to Liberty Hosiery Mills, Inc., Liberty, N. C.
Application April 29, 1952, Serial No. 19,517
Term of patent 14 years
(Cl. D47—7)



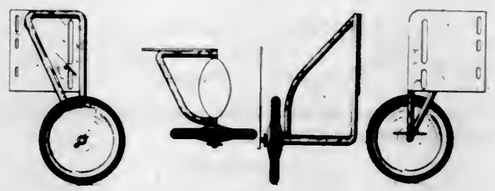
The ornamental design for a stocking, as shown.

167,696
SASH HINGE
Clyde W. Kelly, Detroit, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan
Application July 25, 1949, Serial No. 4,113
Term of patent 14 years
(Cl. D10—9)



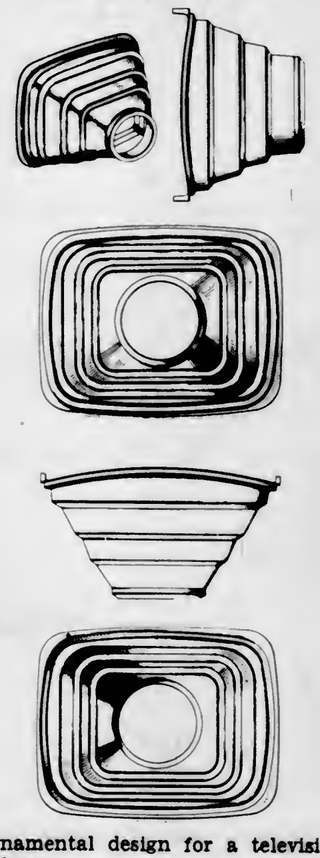
The ornamental design for sash hinge, substantially as shown.

167,697
BICYCLE TRAINER
Moe Kosack, Brooklyn, N. Y.
Application September 10, 1951, Serial No. 16,594
Term of patent 7 years
(Cl. D90—8)



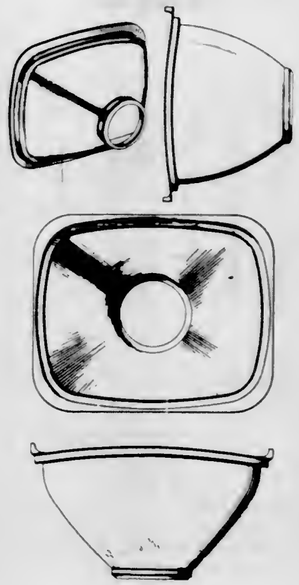
The ornamental design for a bicycle trainer, substantially as shown.

167,698
TELEVISION TUBE BODY
Francis M. Lambert, Narberth, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 25, 1950, Serial No. 11,452
Term of patent 14 years
(Cl. D26—8)



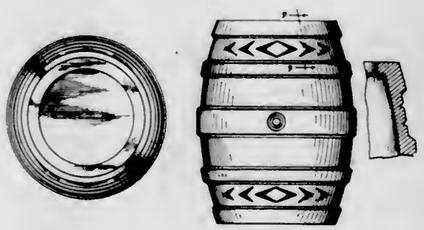
The ornamental design for a television tube body, as shown.

167,699
TELEVISION TUBE BODY
Francis M. Lambert, Narberth, Pa.
Application November 9, 1950, Serial No. 12,925
Term of patent 14 years
(Cl. D26—8)



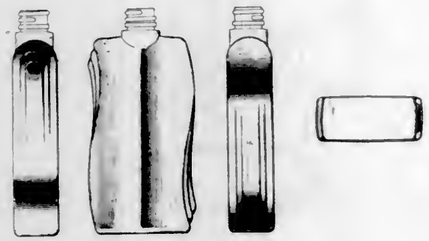
The ornamental design for a television tube body, as shown.

167,700
KEG
Charles Lipson, Atlantic City, N. J., assignor to Charles Lipson Company, Atlantic City, N. J.
Application April 16, 1952, Serial No. 19,351
Term of patent 3½ years
(Cl. D58—3)



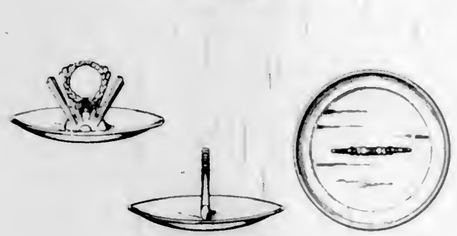
The ornamental design for a keg, as shown.

167,701
BOTTLE
Arnold I. Lorensen, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio
Application January 23, 1952, Serial No. 18,178
Term of patent 14 years
(Cl. D58—6)



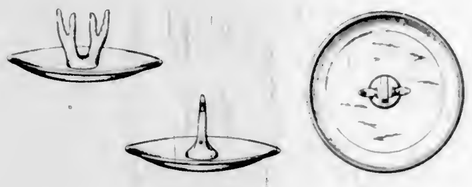
The ornamental design for a bottle, substantially as shown.

167,702
ASH TRAY
Frank N. Mariani, New York, N. Y.
Application July 9, 1952, Serial No. 20,524
Term of patent 14 years
(Cl. D85—2)



The ornamental design for an ash tray, substantially as shown.

167,703
ASH TRAY
Frank N. Mariani, New York, N. Y.
Application July 9, 1952, Serial No. 20,525
Term of patent 14 years
(Cl. D85—2)



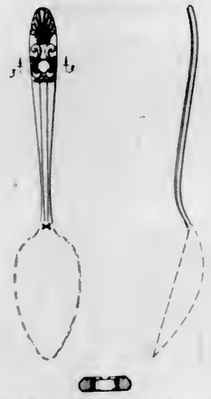
The ornamental design for an ash tray, substantially as shown.

167,704
FRONT FOR SPECTACLE FRAMES
Claire McCardell, New York, N. Y.
Application May 8, 1952, Serial No. 19,635
Term of patent 7 years
(Cl. D57—1)



The ornamental design for a front for spectacle frames, substantially as shown.

167,705
SPOON OR THE LIKE
Norman J. Mercer, Brooklyn, N. Y.
Application November 5, 1951, Serial No. 17,285
Term of patent 7 years
(Cl. D54—12)



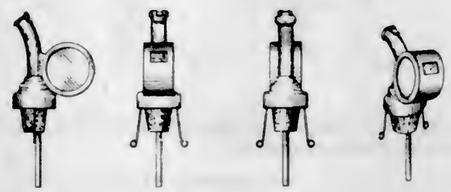
The ornamental design for a spoon or the like, as shown and described.

167,706
MASK OR THE LIKE
John H. Miller, La Grange, Mo.
Application January 5, 1952, Serial No. 17,952
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a mask or the like, as shown.

167,707
POUR COUNTER FOR LIQUOR BOTTLES
William J. Miller, Jr., Denver, Colo., assignor of one-third to William Matthew Robertson and one-third to William Harold Ohruh, both of Denver, Colo.
Application October 29, 1951, Serial No. 17,147
Term of patent 14 years
(Cl. D58—10)

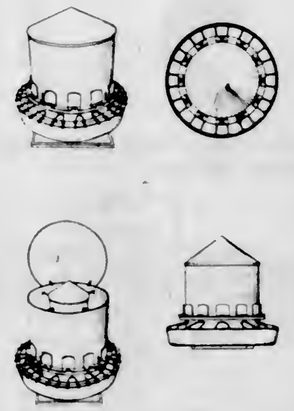


The ornamental design for a pour counter for liquor bottles, as shown and described.

167,708
COMBINATION TELEPHONE STAND AND MEMORANDUM HOLDER
Alonzo Moore, Baltimore, Md.
Application February 21, 1952, Serial No. 18,625
Term of patent 7 years
(Cl. D26—14)

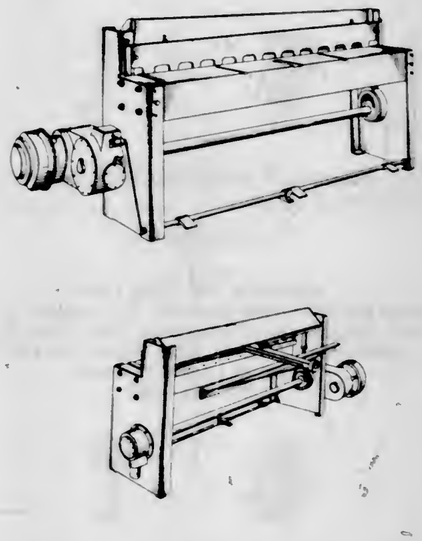
The ornamental design for a combination telephone stand and memorandum holder, as shown and described.

167,709
COMBINATION FOUNTAIN FEEDER AND WATERER
Clarence G. Muehlfeld, Bridgeport, Mich.
Application March 14, 1951, Serial No. 14,483
Term of patent 14 years
(Cl. D12—2)



The ornamental design for a combination fountain feeder and waterer, as shown.

167,710
SHEAR
Frederick E. Munschauer, Jr., Buffalo, N. Y.
Application September 7, 1950, Serial No. 12,088
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a shear, as shown.

167,711
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 14, 1952, Serial No. 20,193
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

167,712
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 14, 1952, Serial No. 20,194
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

167,713
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 14, 1952, Serial No. 20,195
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

167,714
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 14, 1952, Serial No. 20,196
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

167,715
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 14, 1952, Serial No. 20,197
Term of patent 7 years
(Cl. D45—19)



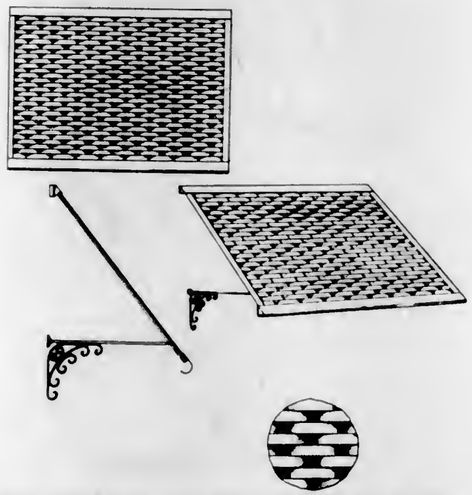
The ornamental design for a brooch or the like, substantially as shown.

167,716
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 14, 1952, Serial No. 20,198
Term of patent 7 years
(Cl. D45—19)



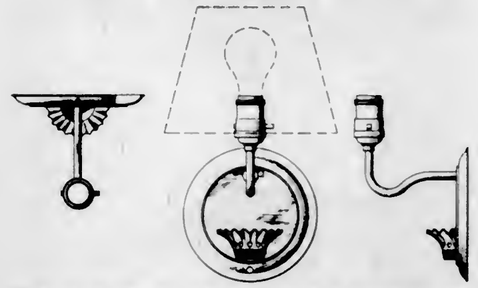
The ornamental design for a brooch or the like, substantially as shown.

167,717
AWNING
Roy B. Price, Cincinnati, Ohio
Application March 8, 1951, Serial No. 14,435
Term of patent 14 years
(Cl. D21—6)



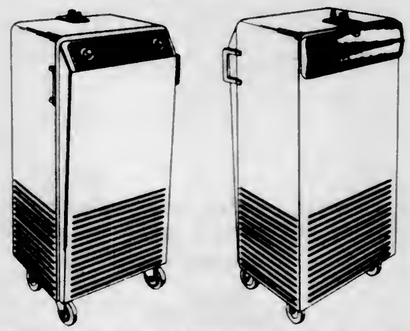
The ornamental design for an awning, as shown.

167,718
COMBINED WALL PLAQUE AND PIN-UP LAMP
Leo Rabkin, New York, N. Y.
Application February 29, 1952, Serial No. 18,722
Term of patent 3½ years
(Cl. D48—4)



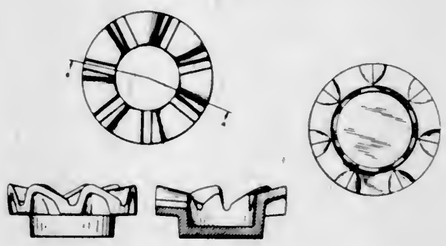
The ornamental design for a combined wall plaque and pin-up lamp, as shown and described.

167,719
REFRIGERATOR UNIT FOR AN OXYGEN TENT
Robert J. Reading, Darien, Conn., assignor to O. E. M. Corporation, a corporation of Delaware
Application December 28, 1951, Serial No. 17,842
Term of patent 14 years
(Cl. D83—1)



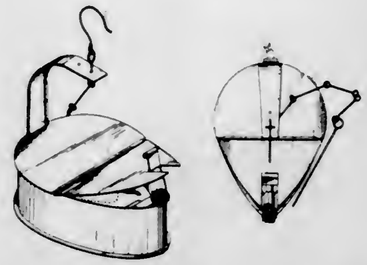
The ornamental design for a refrigerator unit for an oxygen tent, substantially as shown.

167,720
ASH TRAY
Louis A. Revell, Los Angeles, Calif.
Application July 19, 1951, Serial No. 15,944
Term of patent 14 years
(Cl. D85—2)



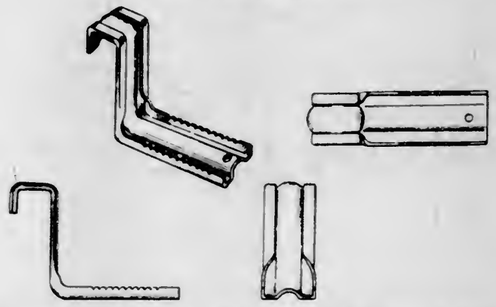
The ornamental design for an ash tray, substantially as shown.

167,721
NIGHT LAMP
James H. Rich, Penn-Wynne, Pa.
Application January 28, 1952, Serial No. 18,255
Term of patent 14 years
(Cl. D48—20)



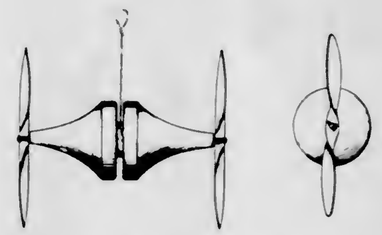
The ornamental design for a night lamp, substantially as shown and described.

167,722
BED SPRING SUPPORT
Ralph William Rosenthal, Jr., Toledo, Ohio, assignor to The Toledo Metal Bed Slat Company, Toledo, Ohio, a corporation of Ohio
Application September 6, 1951, Serial No. 16,527
Term of patent 14 years
(Cl. D5—2)



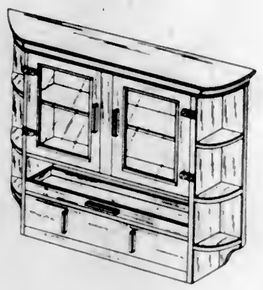
The ornamental design for a bed spring support, substantially as shown.

167,723
BANDALORE TOY
George F. Scott, St. Petersburg, Fla.
Application April 25, 1952, Serial No. 19,467
Term of patent 14 years
(Cl. D34—15)



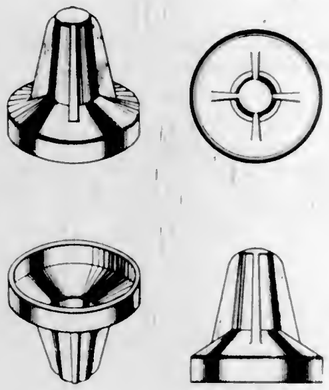
The ornamental design for a bandalore toy, as shown and described.

167,724
KITCHEN WALL CABINET
Richard D. Sherman, Maynard, Mass.
Application September 6, 1951, Serial No. 16,525
Term of patent 3½ years
(Cl. D33—19)



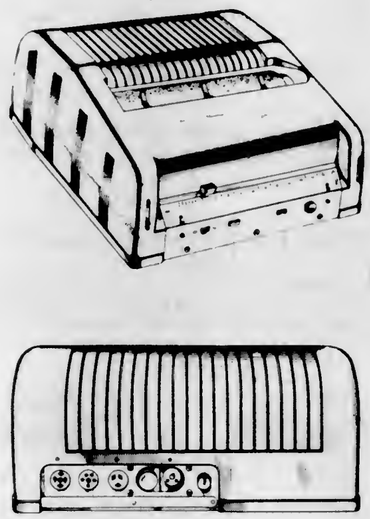
The ornamental design for a kitchen wall cabinet, as shown.

167,725
LOCKING CLOSURE FOR CONTAINERS
Jack W. Soffer, St. Louis, Mo., assignor to Development Research, Inc., St. Louis, Mo., a corporation of Missouri
Application December 8, 1951, Serial No. 17,650
Term of patent 14 years
(Cl. D58—26)



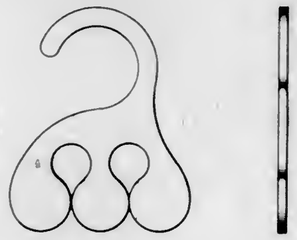
The ornamental design for a locking closure for containers, substantially as shown.

167,726
MAGNETIC RECORDING DICTATING MACHINE
Pierre Stroobants, Anderlecht-Brussels, Belgium, assignor to Ateliers de Constructions Electriques de Charleroi (Societe Anonyme), Brussels, Belgium, a corporation of Belgium
Application December 3, 1951, Serial No. 17,593
In Belgium October 30, 1950
Term of patent 14 years
(Cl. D26—14)



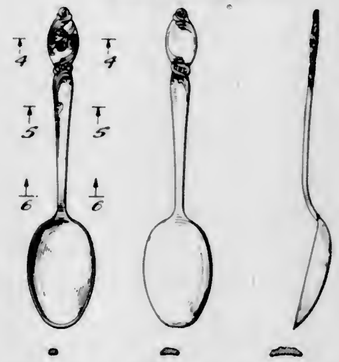
The ornamental design for a magnetic recording dictating machine, as shown and described.

167,727
CLOTHESPIN
Albert R. Teare, Cleveland Heights, Ohio
Application July 24, 1951, Serial No. 16,001
Term of patent 14 years
(Cl. D17—6)



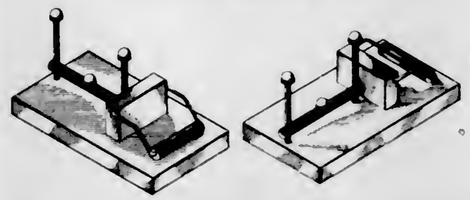
The ornamental design for a clothespin, as shown.

167,728
SPOON OR SIMILAR ARTICLE
William S. Warren, Meriden, Conn., assignor to R. Wallace & Sons Manufacturing Company, Wallingford, Conn., a corporation of Connecticut
Application May 28, 1952, Serial No. 19,914
Term of patent 14 years
(Cl. D54—12)



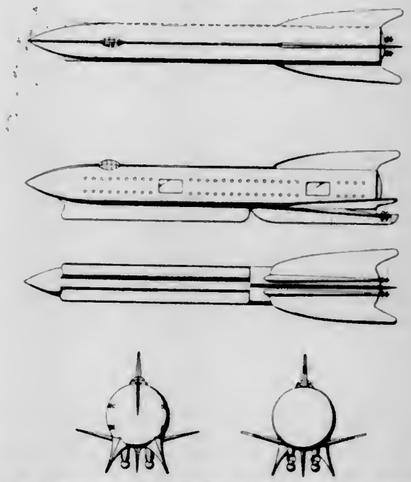
The ornamental design for a spoon or similar article, substantially as shown, and described.

167,729
HOLDER FOR PLAYING CARDS
Abraham Werner, Sr., Honolulu, Territory of Hawaii
Application April 11, 1952, Serial No. 19,284
Term of patent 7 years
(Cl. D34—13)



The ornamental design for a holder for playing cards, as shown.

167,730
SHIP
Walter Wiggins, Jr., Beaver Heights, Md.
Application June 25, 1952, Serial No. 20,342
Term of patent 14 years
(Cl. D71—1)



The ornamental design for a ship, as shown.

167,731
PIN OR SIMILAR ARTICLE
Dennis Willinger, New York, N. Y.
Application January 30, 1952, Serial No. 18,293
Term of patent 3½ years
(Cl. D45—19)



The ornamental design for a pin or similar article, substantially as shown and described.

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UNITED STATES PATENT OFFICE

Containing the Patents, Trade-Marks, & Designs issued

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Antacid and absorbent. Serial No. 625,383, Sept. 16. Class 18.

Abel Corporation, The, Columbus, Ohio. Automobile seat covers. Serial No. 603,032, Sept. 16. Class 19.

Advance Silk Co.: *See*—
Philips, Joel M.

Advance Solvents & Chemical Corporation, New York, N. Y. Synthetic hydrocarbon polymers. Serial No. 590,923, Sept. 16. Class 6.

Advance Solvents & Chemical Corporation, New York, N. Y. Viscous synthetic liquid softeners, plasticizers, tackifiers, and modificers. Serial No. 612,227, Sept. 16. Class 5.

Albertson, Fred W., Washington, D. C. Radio and wire teletypewriters. Serial No. 619,280, Sept. 16. Class 21.

Alexander, Merle L., Albuquerque, N. Mex. Sandwiches. Serial No. 604,945, Sept. 16. Class 46.

Alol Products, Inc., Carmel, N. Y. Preparation for treatment of poison ivy. Serial No. 625,706, Sept. 16. Class 18.

Alwin Manufacturing Company, Green Bay, Wis. Mechanical dispensers. Serial No. 618,523, Sept. 16. Class 23.

American Automobile Company, Seattle, Wash. Rebuilt automobile engines. Serial No. 573,699, Sept. 16. Class 23.

American Laundry Machinery Company, The, Cincinnati, Ohio. Laundry and dry cleaning centrifugal extractors. Serial No. 622,973, Sept. 16. Class 24.

American Lubricants Co., The, Dayton, Ohio. Lubricating oils and greases, and upper cylinder lubricants. Serial No. 599,214, Sept. 16. Class 15.

American Window Glass Company, Pittsburgh, Pa. Sheet glass. Serial No. 614,479, Sept. 16. Class 33.

Ames Company, Inc., Elkhart, Ind. Tablets for analgesic, antipyretic, and sedative purposes. Serial No. 632,192, Sept. 16. Class 18.

Anderson-Nichols & Company, Boston, Mass. Coordinated technical services. Serial No. 620,455, Sept. 16. Class 101.

Apkarian, T., & Sons, Reedley, Calif. Fresh grapes. Serial No. 593,850, Sept. 16. Class 46.

Apollo Ad Service, Inc., York, Pa. Traffic light indicators. Serial No. 617,780, Sept. 16. Class 19.

Apollo Metal Works, Chicago, Ill. Treating, for others, metallic sheets, plates, coils, etc. Serial No. 624,582, Sept. 16. Class 106.

Arabian American Oil Company, New York, N. Y. Petroleum, kerosene, diesel oil, etc. Serial No. 608,446, Sept. 16. Class 15.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Perfumes, toilet water, and eau de cologne. Serial No. 625,250, Sept. 16. Class 51.

Arena, V., & Sons, Inc., Norristown, Pa. Macaroni. Serial No. 604,682, Sept. 16. Class 46.

Assinippi Line Company: *See*—
Bennett, William C.

Atlantic Refining Company, The, Philadelphia, Pa. Plastic resin. Serial No. 622,690, Sept. 16. Class 6.

Atlantic Steel Company, Atlanta, Ga. Lintels, metal lath, metal ridge rolls, etc. Serial No. 616,271, Sept. 16. Class 12.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Acid and alkali proof bituminous cement. Serial No. 580,177, Sept. 16. Class 12.

Atlas Supply Company, Newark, N. J. Rubber tires. Serial No. 627,482, Sept. 16. Class 35.

Auto Ventshade Company, Atlanta, Ga. Shades for doors and windows of automotive vehicles. Serial No. 592,297, Sept. 16. Class 19.

Automatic Canteen Company of America, Chicago, Ill. Candy. Serial No. 621,497, Sept. 16. Class 46.

Barron-Gray Packing Company: *See*—
Hawaiian Pineapple Company, Limited.

Bar's Products: *See*—
Barton, Frederic D.

Barton, Frederic D., doing business under the fictitious name and style of Bar's Products, San Francisco, Calif. Radiator leak sealer, rust preventative, and a rust inhibitor. Serial No. 595,819, Sept. 16. Class 6.

Baxter, Don, Inc., Glendale, Calif. Evacuated glass containers having special stoppers for the administration of parenteral enteral and topical solutions, administration sets, etc. Serial No. 620,380, Sept. 16. Class 44.

Bemis Bro. Bag Company, St. Louis, Mo. Sewing thread. Serial No. 580,972, Sept. 16. Class 43.

Bendel, Henri, Inc., New York, N. Y. Detergent. Serial No. 589,140, Sept. 16. Class 52.

Bennett, William C., doing business as Assinippi Line Company, Assinippi, Mass. Fishing lines. Serial No. 621,614, Sept. 16. Class 22.

Beresford, James, & Son Limited, Marston Green, Birmingham, England. Pumps. Serial No. 613,889, Sept. 16. Class 23.

Bernstein, S., Inc., Newark, N. J. Combination kitchen sinks and cabinets. Serial No. 624,219, Sept. 16. Class 13.

Bivar & Ca., Lda., Portimao, Portugal. Canned fish. Serial No. 596,378, Sept. 16. Class 46.

Bi-Win Co., Chicago, Ill. Metal pouring spouts for paper and cardboard boxes. Serial No. 618,726, Sept. 16. Class 13.

Black Rock Corporation, Trout Lake, Wash. Cheese. Serial No. 608,488, Sept. 16. Class 46.

Blue Bar Coconut Company, Manila, P. I. Desiccated coconut. Serial No. 578,385, Sept. 16. Class 46.

Booth Fisheries Corporation, Chicago, Ill. Frozen fresh vegetables; frozen fresh citrus and deciduous fruits, canned applesauce, etc. Serial Nos. 542,525–7, Sept. 16. Class 46.

Booth Fisheries Corporation, Chicago, Ill. Fresh and frozen oysters, fresh and frozen clams, and fresh and frozen shrimp. Serial No. 624,387, Sept. 16. Class 46.

Boott Mills, Lowel, Mass. Corduroy fabrics in the piece. Serial No. 626,189, Sept. 16. Class 42.

Bostwick Laboratories, Inc., Bridgeport, Conn. Household deodorant. Serial No. 588,544, Sept. 16. Class 6.

Brazil Nut Association, New York, N. Y. Brazil nuts. Serial No. 607,001, Sept. 16. Class 46.

Breyner's Arthritis & Rheumatism Research Laboratories, Inc., New York, N. Y. Compounds for treatment of rheumatic pains and arthritis. Serial No. 624,996, Sept. 16. Class 18.

British Oilfield Equipment Co. Limited, Hunslet, Leeds, England. Machinery for drilling and oil prospecting. Serial No. 612,152, Sept. 16. Class 23.

Brownie Weavers, Toledo, Ohio. Reweaving and repairing cloth. Serial No. 591,555, Sept. 16. Class 103.

Brumbaugh Body Company, Altoona, Pa. Manufactured truck bodies, truck cabs, "jeep tops," etc. Serial No. 605,942, Sept. 16. Class 19.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Counter and wall type display cases. Serial No. 614,646, Sept. 16. Class 32.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Corrosion inhibitor. Serial No. 629,474, Sept. 16. Class 6.

Calnevar Company, The, Los Angeles, Calif. Deflecting shields. Serial No. 615,366, Sept. 16. Class 19.

Capitol Flooring Co., Inc., Jersey City, N. J. Precast nonslip terrazzo stair treads. Serial No. 624,928, Sept. 16. Class 12.

Cargill, Incorporated, assignee: *See*—
Falk & Company.

Carnegie-Illinois Steel Corporation, Pittsburgh, Pa., now by merger and change of name United States Steel Company. Concrete reinforcing bars. Serial No. 607,419, Sept. 16. Class 12.

Carr, Adams & Collier Company, Dubuque, Iowa. Wood trim and wood moulding, fabricated woodwork. Serial No. 545,576, Sept. 16. Class 12.

Carter Carburetor Corporation, St. Louis, Mo. Liquid fuel filters. Serial No. 618,883, Sept. 16. Class 31.

Carter-Waters Corporation, The, Kansas City, Mo. Liquid air entraining agent. Serial No. 619,386, Sept. 16. Class 6.

Celotex Corporation, The, Chicago, Ill. Millwork and cement-asbestos-surfaced fiber insulation board panels. Serial No. 557,258, Sept. 16. Class 12.

Central Mine Equipment Company, St. Louis, Mo. Drill bits, augers, drill heads, etc. Serial No. 599,693, Sept. 16. Class 23.

Chaswell Company, Chicago, Ill. Playing cards. Serial No. 622,802, Sept. 16. Class 22.

Chemical Corporation of Colorado, assignor to Chemical Corporation of Texas, Denver, Colo. Insecticide. Serial No. 626,073, Sept. 16. Class 6.

Chemical Corporation of Texas, assignee: *See*—
Chemical Corporation of Colorado.

Cherry-Burrell Corporation, Chicago, Ill. Hand operated dollies. Serial No. 522,823, Sept. 16. Class 19.

Chicago Printed String Company, Chicago, Ill. Ribbonlike tying material. Serial No. 624,527, Sept. 16. Class 7.

Christian, Joseph D., San Francisco, Calif. Heat exchanging equipment. Serial No. 611,401, Sept. 16. Class 34.

Chromaster Furniture Corp., Newark, N. J. Wood and metal kitchen and dinette chairs and tables. Serial No. 623,648, Sept. 16. Class 32.

Chrysler Corporation, Highland Park, Mich. Automobiles and their structural parts. Serial No. 611,404, Sept. 16. Class 19.

Chrysler Corporation, Highland Park, Mich. Hydraulic shock absorbers. Serial No. 623,339, Sept. 16. Class 19.

Clairmont Trading Corporation, Chicago, Ill. Watches. Serial No. 613,363, Sept. 16. Class 27.

Clayton & Lambert Manufacturing Company, Louisville, Ky. Metal silos, and metal grain bins. Serial No. 613,691, Sept. 16. Class 2.
Clipper Packing & Cold Storage Co., St. Louis, Mo. Frozen shrimp, whiting, cat fish, cod, etc. Serial No. 625,459, Sept. 16. Class 46.
Colonial Sugars Company, Jersey City, N. J., and New Orleans, La. Sugars. Serial No. 611,940, Sept. 16. Class 46.
Colorado Milling & Elevator Co., The, Denver, doing business as The Monte Vista Flour Mills, Monte Vista, Colo. Wheat flour. Serial No. 555,250, Sept. 16. Class 46.
Columbian Rope Company, Auburn, N. Y. Twine. Serial No. 627,174, Sept. 16. Class 7.
Comrade Cycle Company Limited, Darlaston, Staffordshire, England. Bicycles, cycle frames, handle bars, etc. Serial No. 595,122–3, Sept. 16. Class 19.
Conoflow Corporation, Philadelphia, Pa. Gas and water pressure regulators and control valves. Serial No. 550,784, Sept. 16. Class 13.
Continental Optical Company, Inc., Indianapolis, Ind. Spectacle frames and mountings therefor. Serial No. 624,530, Sept. 16. Class 26.
Corning Glass Works, Corning, N. Y. Following articles of glass, namely: candlesticks and candelabra. Serial No. 613,766, Sept. 16. Class 34.
Corning Glass Works, Corning, N. Y. Following articles of glass, namely: candlesticks and candelabra. Serial No. 614,870, Sept. 16. Class 34.
Coroua Oil Specialties & Service Company, La Canada, Calif. Fluid handling fittings. Serial No. 615,628, Sept. 16. Class 13.
Coty, Inc., New York, N. Y. Perfumes, toilet waters, sachet in powdered form, etc. Serial No. 567,070, Sept. 16. Class 51.
Coyne & Delany Co., Brooklyn, N. Y. Flush valves and parts thereof. Serial No. 624,398–9, Sept. 16. Class 13.
Creme Simon, Anciennement J. Simon & Cie, Societe Anonyme, Lyon, France. Toilet Soaps. Serial No. 512,996, Sept. 16. Class 52.
Cromwell, Robert H., Jr., doing business as Glo-Co Company, Inc., Los Angeles, Calif. Toilet soap. Serial No. 581,709, Sept. 16. Class 52.
Cross, Mark, Company, New York, N. Y. Men's and women's sweaters. Serial No. 612,210, Sept. 16. Class 39.
Curtis, Helene, Industries, Inc., Chicago, Ill. Wave setting lotion. Serial No. 598,245, Sept. 16. Class 51.
Custom Hydrocraft: *See*—
Szakacs, Joseph J.
Decker Corporation, The, Glenside, Pa. Colorless, transparent, resinous, technical liquid cement. Serial No. 611,642, Sept. 16. Class 5.
Dentocide Chemical Company: *See*—
Moses, Saul.
Deutsch Company, The, Los Angeles, Calif. Metal fluid supply fittings. Serial No. 622,297, Sept. 16. Class 13.
Dieterich Products Corporation, Michigan City, Ind. Automobile visors. Serial No. 617,392, Sept. 16. Class 19.
Dole Sales Company: *See*—
Hawaiian Pineapple Company, Limited.
Downey, Joseph B., doing business under the name Peppy Bits, Boston, Mass. Candy. Serial No. 613,907, Sept. 16. Class 46.
Downs, Thomas F., Springfield, Mass. Gas water heater. Serial No. 611,566, Sept. 16. Class 34.
Dresser Industries, Inc., Dallas, Tex. Wrenches. Serial No. 611,505, Sept. 16. Class 23.
Dunes Laboratory Products Company: *See*—
Marion, Louis W.
du Pont, E. I., de Nemours and Company, Wilmington, Del. Stabilized diazo color base. Serial No. 625,004, Sept. 16. Class 6.
E. C. Ltd., New York, N. Y., assignee of Englishtown Crafts, Inc. Flatware of base metal. Serial No. 571,959, Sept. 16. Class 23.
Eastman, George, House, Inc., Rochester, N. Y. Periodical publication. Serial No. 624,648, Sept. 16. Class 38.
Ecusta Paper Corporation, Pisgah Forest, N. C. Regenerated cellulose film. Serial No. 631,347, Sept. 16. Class 1.
Einiger Mills, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 629,155, Sept. 16. Class 42.
Einnhoj Co.: *See*—
Perez, Johnnie R.
Electro-Chemical Products Corporation, East Orange, N. J. Preparation for removing dust-attracting static electricity from records. Serial No. 620,881, Sept. 16. Class 6.
Ellis Canning Company, The, Denver, Colo. Canned chili con carne, tamales with sauce, spaghetti and meat balls. Serial No. 538,112, Sept. 16. Class 46.
Englishtown Crafts, Inc.: *See*—
E. C. Ltd.
Essex Pharmacal Co., Lynn, Mass. Vaginal douche powder. Serial No. 625,347, Sept. 16. Class 18.
Estwing Manufacturing Company, Incorporated, Rockford, Ill. Hammers and hatchets. Serial No. 619,611, Sept. 16. Class 23.
Euclid Road Machinery Co., The, Euclid, Ohio. Motor driven and trailer materials-handling equipment. Serial No. 613,060, Sept. 16. Class 19.
Ezo Products Co.: *See*—
Ezo Products Company.
Ezo Products Company, also known as Ezo Products Co., Philadelphia, Pa. Denture cleaning powder. Serial No. 593,718, Sept. 16. Class 51.
Fab-Weld Corporation, Philadelphia, Pa. Dollies and hand trucks. Serial No. 615,694, Sept. 16. Class 19.
Fagg Upholstery Company, High Point, N. C. Furniture. Serial No. 625,851, Sept. 16. Class 32.
Falk & Company, Pittsburgh, Pa., assignor to Cargill, Incorporated. Alkyd resins. Serial No. 605,019, Sept. 16. Class 6.
Fan Sea Foods, Inc., Seattle, Wash. Canned sea foods. Serial No. 626,664, Sept. 16. Class 46.
Farmers Educational and Cooperative Union of America, Denver, Colo. Raspberry pancake and waffle syrup. Serial No. 592,022, Sept. 16. Class 46.
Federated Department Stores, Inc., Cincinnati, Ohio. Watches and clocks. Serial No. 624,821, Sept. 16. Class 27.
Felters Company, The, Boston, Mass. Weather strip felt. Serial No. 615,172, Sept. 16. Class 12.
Fiat Metal Manufacturing Company, Franklin Park, Ill. Shower doors. Serial No. 611,513, Sept. 16. Class 12.
Fichtel & Sachs Aktiengesellschaft, Schweinfurt on Main/West, Germany. Freewheel hubs, freewheel brake hubs, and freewheel hubs with gear transmissions, etc. Serial No. 624,718, Sept. 16. Class 19.
Filbert, J. H., Inc., Baltimore, Md. Oleomargarine. Serial No. 587,434, Sept. 16. Class 46.
Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals. Serial No. 601,978, Sept. 16. Class 18.
Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.
Fisch, Edmondo A., Zurich, Switzerland. Electrical ozone producing apparatus for dental use. Serial No. 593,793, Sept. 16. Class 44.
Flavour Candy Company, The, Chicago, Ill. Candy. Serial No. 549,435, Sept. 16. Class 46.
Foam-X Co., Santa Barbara, Calif. Medicinal preparation. Serial No. 608,818, Sept. 16. Class 18.
Folger, J. A., & Company, Kansas City, Mo. Weekly publication. Serial No. 608,794, Sept. 16. Class 38.
Food Machinery and Chemical Corporation, San Jose, Calif. Parasiticides. Serial No. 608,600, Sept. 16. Class 6.
Forest Fiber Products Company, Forest Grove, Oreg. Wallboard. Serial No. 624,484, Sept. 16. Class 12.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 625,101, Sept. 16. Class 42.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 629,102, Sept. 16. Class 42.
Frederick Post Company, The, Chicago, Ill. Developers; transparentizing fluids; and fixative compositions. Serial No. 607,494, Sept. 16. Class 6.
Freedom-Valvoline Oil Company, Freedom, Pa. Transmission oils, gear lubricants, and transmission grease. Serial No. 625,265, Sept. 16. Class 15.
Friend, Joseph, Philadelphia, Pa. Musical entertainment services. Serial No. 607,856, Sept. 16. Class 107.
Fruit Products Corporation, New York, N. Y. Handle sticks. Serial No. 627,432, Sept. 16. Class 13.
Fruit Products Corporation, New York, N. Y. Handle sticks. Serial No. 627,434, Sept. 16. Class 13.
Fruit Products Corporation, New York, N. Y. Handle sticks. Serial No. 627,436, Sept. 16. Class 13.
Fruit Products Corporation, New York, N. Y. Handle sticks. Serial No. 627,438, Sept. 16. Class 13.
Fruit Products Corporation, New York, N. Y. Handle sticks. Serial No. 627,440–1, Sept. 16. Class 13.
Fry's Metal Foundries, London, England. Mixtures of fluxes and solders. Serial No. 609,720, Sept. 16. Class 14.
Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 625,730, Sept. 16. Class 42.
Gay Togs, Inc., New York, N. Y. Ladies' apparel. Serial No. 624,194, Sept. 16. Class 39.
Gehring Textiles, Inc., New York, N. Y. Textile fabrics. Serial No. 615,544, Sept. 16. Class 42.
General Steel Warehouse Co., Inc., Chicago, Ill. Cold finished bars, aircraft strip steel, cold rolled strip steel, etc. Serial No. 611,895, Sept. 16. Class 14.
Gerstley, Sunstein & Co., Philadelphia, Pa. Rendering investment advisory service. Serial No. 610,679, Sept. 16. Class 102.
Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Metal working machines. Serial No. 615,520, Sept. 16. Class 23.
Gillette Company, The: *See*—
Gillette Safety Razor Company.
Gillette Safety Razor Company, Boston, Mass., now by change of name The Gillette Company. Hair dressing and hair spray. Serial No. 624,883, Sept. 16. Class 51.
Global Watch Company, Inc., New York, N. Y. Watches and watch movements. Serial No. 623,349, Sept. 16. Class 27.
Glo-Co Company, Inc.: *See*—
Cromwell, Robert H., Jr.
Godefroy Manufacturing Company, St. Louis, Mo. Hair lotion. Serial No. 622,435, Sept. 16. Class 52.
Golden Grain Macaroni Co., San Leandro, Calif. Candy. Serial No. 625,590, Sept. 16. Class 46.

Gorman-Rupp Company, The, Mansfield, Ohio. Centrifugal pumps. Serial No. 600,537, Sept. 16. Class 23.
Graceform-Camlin Corset Co., Inc., New York, N. Y. Brassières, girdles, and combination brassières and corsets. 619,340, Sept. 16. Class 39.
Graham, Billy, Evangelistic Association, Inc., The, Minneapolis, Minn. Religious educational services. Serial No. 622,894, Sept. 16. Class 107.
Granat Bros., San Francisco, Calif. Articles of jewelry. Serial No. 523,311, Sept. 16. Class 28.
Grandma Moses Properties, Inc., New York, N. Y. Fabrics-in-the-piece. Serial No. 619,753, Sept. 16. Class 42.
Grandma Moses Properties, Inc., New York, N. Y. Fabrics-in-the-piece. Serial Nos. 619,078–80, Sept. 16. Class 42.
Gray Company, Inc., Minneapolis, Minn. Tire-buffing machine. Serial No. 609,550, Sept. 16. Class 23.
Great Lakes Steel Corporation, Ecorse, Detroit, Mich. Ready-mixed paint. Serial No. 576,695, Sept. 16. Class 16.
Gruen Watch Company, The, Cincinnati and Time Hill, Cincinnati, Ohio. Watches, watch cases, and watch movements. Serial No. 623,463, Sept. 16. Class 27.
Gruen Watch Company, The, Cincinnati and Time Hill, Cincinnati, Ohio. Watches, watch cases, and watch movements. Serial No. 625,735, Sept. 16. Class 27.
Guardite Corporation, Chicago, Ill. Units for moistening, dehydrating, cooling, etc., organic products. Serial No. 607,287, Sept. 16. Class 23.
Haefeli, Max, Basel, Switzerland. Dental and medical materials. Serial No. 516,839, Sept. 16. Class 44.
Hammer, Nathan, New York, N. Y. Watches. Serial No. 624,486, Sept. 16. Class 27.
Hartz Mountain Products, New York, N. Y. Bird feeds. Serial No. 625,799, Sept. 16. Class 46.
Hatmaker, C. F., Ocean Grove, N. J. Playing cards. Serial No. 607,019, Sept. 16. Class 22.
Hawaiian Pineapple Company, Limited, doing business as Dole Sales Company and Barron-Gray Packing Company, Honolulu, Territory of Hawaii and San Francisco and San Jose, Calif. Canned fruits, canned fruit cocktail and canned fruit juices. Serial No. 603,682, Sept. 16. Class 46.
Hayes Track Appliance Company, Richmond, Ind. Track appliances. Serial No. 621,362, Sept. 16. Class 14.
Hearl, Florence M., Woodstock, Va. French dressing. Serial No. 620,157, Sept. 16. Class 46.
Heisler Manufacturing Company, Hudson, Iowa. Manifolds for internal combustion engines, overdrive transmissions, etc. Serial No. 585,067, Sept. 16. Class 23.
Herz, Alexander, Co., Inc., New York, N. Y. Merchandise envelopes. Serial No. 562,899, Sept. 16. Class 2.
Hewitt Soap Company, Inc., The, Dayton, Ohio. Sudsing cleaner, cleanser and detergent. Serial No. 612,324, Sept 16. Class 52.
Hinton & Co. Inc., New York, N. Y. Bird food. Serial No. 516,281, Sept. 16. Class 46.
Honokaa Sugar Company, Honokaa, Hamakua, Territory of Hawaii. Shelled and salted macadamia nuts and chocolate coated macadamia nuts. Serial No. 621,012, Sept. 16. Class 46.
Hooker Electrochemical Company, Niagara Falls, N. Y. Hexachlorocyclopentadiene. Serial No. 629,164, Sept. 16. Class 6.
Hough Shade Corporation, Janesville, Wis. Flexible doors. Serial No. 613,452, Sept. 16. Class 12.
House of Proktol, Inc., Newark, N. J. Hair dyes. Serial No. 599,528, Sept. 16. Class 51.
Hubbard and Company, Pittsburgh, Pa. Apparatus, devices, and structural parts generally designated as "pole line hardware." Serial No. 581,482, Sept. 16. Class 13.
Hudson Motor Car Company, Detroit, Mich. Automobile bodies. Serial No. 604,367, Sept. 16. Class 19.
Hyland Electrical Supply Co., Chicago, Ill. Entertainment and advertising services. Serial No. 575,531, Sept. 16. Class 101.
Hyman, S. E., Company, The, Fremont, Ohio. Covers for automobile cushions, seats and seat backs. Serial No. 619,574, Sept. 16. Class 19.
Illinois Watch Case Co., Elgin, Ill. Hair springs for watches. Serial No. 621,365, Sept. 16. Class 27.
Independent Cordage Co., Inc., New York, N. Y. Rope, cord and twine. Serial No. 624,834, Sept. 16. Class 7.
Industrial Trades Institute, Atlanta, Ga. Instruction in the practical trades. Serial No. 585,170, Sept. 16. Class 107.
Ing. C. Olivetti & C. S. P. A., Ivrea, Italy. Office machines. Serial No. 598,303, Sept. 16. Class 23.
Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Automatic self-bucking riveter. Serial No. 617,442, Sept. 16. Class 23.
Insular Lumber Company, Philadelphia, Pa. Lumber and lumber products. Serial No. 621,013, Sept. 16. Class 12.
International Harvester Company, Chicago, Ill. Enamel solder. Serial No. 613,170, Sept. 16. Class 14.
Iowa Packing Company, division of Swift & Company: *See*—
Swift & Company.
Jackson, Byron, Co., Los Angeles, Calif. Centrifugal and turbine pumps, and parts thereof. Serial No. 626,575, Sept. 16. Class. 23.
Jackson-Mitchell Pharmaceuticals, Inc.: *See*—
Special Milk Products, Inc.
Janssen, Werner, Bonn, Germany. Medicinal drops and pile ointment. Serial No. 615,070, Sept. 16. Class 18.
Johnson, C. S., Company, The, Champaign, Ill. Batching plant for concrete constituents. Serial No. 615,119, Sept. 16. Class 23.
Jordan, F. L., Sash & Door Co., Los Angeles, Calif. Windows. Serial No. 593,122, Sept. 16. Class 12.
Judson Laboratories, Inc., Cockeysville, Md. Hair curling solution and a solution for neutralizing the curling solution. Serial No. 612,695, Sept. 16. Class 51.
Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. Serial No. 616,502, Sept. 16. Class 42.
Kelbert Watch Company, New York, N. Y. Watches, watch cases and watch movements. Serial No. 604,786, Sept. 16. Class 27.
Kennametal Inc., Latrobe, Pa. Carbide cutting tools. Serial No. 622,501, Sept. 16. Class 23.
Kent-Moore Organization, Inc., Detroit, Mich. Fluid pressure operated mechanism. Serial No. 604,154, Sept. 16. Class 23.
Kidde, Walter, & Company, Inc., Belleville, N. J. Fire protection engineering service. Serial No. 621,320, Sept. 16. Class 103.
Kiddie Kabinette, Inc., New York, N. Y. Tooth brushes. Serial No. 624,198–9, Sept. 16. Class 29.
Kilbourn Engineering Company, Inc., Milwaukee, Wis. Finished machined metal parts. Serial No. 627,265, Sept. 16. Class 13.
Kilgore Seed Company, The, Plant City, Fla. Insecticides. Serial No. 624,746, Sept. 16. Class 6.
King Karpen Company, Alhambra, Calif. Mattresses, box springs, and bed bolsters. Serial No. 620,042, Sept. 16. Class 32.
Kinney & Company: *See*—
Kinney, Harry S.
Kinney, Harry S., doing business as Kinney & Company, Columbus, Ind. Vitamin-iron pharmecutical preparation. Serial No. 625,909, Sept. 16. Class 18.
Kiwi Coders Corp., Chicago, Ill. Printing inks. Serial No. 625,809, Sept. 16. Class 11.
Knauf & Tesch Company, Chilton, Wis. Poultry and livestock feeds. Serial No. 618,746, Sept. 16. Class 46.
Knomark Manufacturing Co. Inc., Brooklyn, N. Y. Brushes and sponges. Serial No. 585,647, Sept. 16. Class 29.
Knowles, James H., & Associated Breeders: *See*—
Knowles, James H.
Knowles, James H., doing business as James H. Knowles & Associated Breeders, Centralia, Wash. Poultry, chicks and hatching eggs. Serial No. 616,038, Sept. 16. Class 1.
Koppers Company, Inc., Pittsburgh, Pa. Insecticides. Serial No. 629,737, Sept. 16. Class 6.
Kordol Corporation of America, New York, N. Y. Tablets for the relief of pains. Serial No. 625,280, Sept. 16. Class 18.
Kotake Company, Limited, Honolulu, Territory of Hawaii. Rice cake. Serial No. 610,276, Sept. 16. Class 46.
Lasko Strap Company, New York, N. Y. Wrist watch straps. Serial No. 618,050, Sept. 16. Class 28.
Lebanon Nut Growers Cooperative, Lebanon, Oreg. Unshelled nuts. Serial No. 610,854–5, Sept. 16. Class 46.
Lebanon Woolen Mills Corporation, Lebanon, N. H., and Boston, Mass. Woolen fabrics. Serial No. 625,680, Sept. 16. Class 42.
Lelong, Lucien, Inc., Chicago, Ill. Toilet soaps. Serial No. 582,175, Sept. 16. Class 52.
Lenthéric, Incorporated, New York, N. Y. Solid preparations of eau de cologne. Serial No. 625,426, Sept. 16. Class 51.
Lerner Bros. Mfg. Co. Inc., Baxter Springs and Kansas City, Mo. Men's clothing. Serial No. 535,854, Sept. 16. Class 39.
Liggett Spring and Axle Co., Monongahela, Pa. Leaf springs, together with component parts, such as clips, bushings, etc. Serial No. 581,072, Sept. 16. Class 19.
Limit Engineering Co. Ltd., London, England. Electric fans. Serial No. 618,396, Sept 16. Class 21.
Lindeteves Inc., New York, N. Y. King bolt sets, tie rods, drag links, etc. Serial No. 617,504, Sept. 16. Class 19.
Lindeteves Inc., New York, N. Y. King bolt sets, tie rods, drag links, etc. Serial No. 617,506, Sept. 16. Class 19.
Lindley, Ross C., Seattle, Wash. Dental platen. Serial No. 620,812, Sept 16. Class 44.
Liquid Freeze Corporation, Oakland, Calif. Ice-making machines. Serial No. 606,306, Sept. 16. Class 31.
Liquid Nitrogen Processing Corp., Elizabeth, N. J. Preserved edible materials. Serial No. 602,768, Sept. 16. Class 46.
Lufkin Rule Company, The, Saginaw, Mich. Measuring tapes. Serial No. 624,693, Sept. 16. Class 26.
Luyties Pharmacal Company, St. Louis, Mo. Medicines and pharmaceutical preparations. Serial No. 613,333, Sept. 16. Class 18.

Mallinckrodt Chemical Works, St. Louis, Mo. Anticonvulsant. Serial No. 625,746, Sept. 16. Class 16.
Malmstrom, Richard A., doing business as N. I. Malmstrom & Company, Brooklyn, N. Y. Powdered lanolin soap. Serial No. 612,923, Sept. 16. Class 52.
Malmstrom, N. I., & Company: *See*—
Malmstrom, Richard A.
Mandrioli, Orfeo, North Agawam, Mass. Food flavoring. Serial No. 572,672, Sept. 16. Class 46.
Marion, Louis W., doing business as Dunes Laboratory Products Company, Gary, Ind. Sedative. Serial No. 623,358, Sept. 16. Class 18.
Master Addresser Company, Minneapolis, Minn. Hectographic duplicating machines. Serial No. 580,733, Sept. 16. Class 23.
Mastic Tile Corporation, Newburgh, N. Y., and Long Beach, Calif. Asphalt tile floor covering. Serial No. 620,612, Sept. 16. Class 12.
Mayborn Products Limited, London, England. Bleaching and dye-removing substances. Serial No. 599,068, Sept. 16. Class 6.
McCray Refrigerator Company, Kendallville, Ind., now by change of name McCray Refrigerator Company, Inc. Refrigerators. Serial No. 604,484, Sept. 16. Class 31.
McCray Refrigerator Company, Inc.: *See*—
McCray Refrigerator Company.
McNaught Publications, Inc., Beverly Hills, Calif. Publication. Serial No. 609,466, Sept. 16. Class 38.
Mead Specialties Company, Inc., Chicago, Ill. Burring machines, air clamps, air presses, etc. Serial No. 586,928, Sept. 16. Class 23.
Melin, Sten S., doing business as Melin Industries, Cleveland, Ohio. Carriage for use in hitching various soil cultivating implements to a garden tractor. Serial No. 565,352, Sept. 16. Class 23.
Melin Industries: *See*—
Melin, Sten S.
Merriman Bros. Inc., Boston, Mass. Ring for use in spinning and twisting frames. Serial No. 607,134, Sept. 16. Class 23.
Metal Industries, Incorporated, Youngstown, Ohio. Fasteners. Serial No. 619,640, Sept. 16. Class 13.
Micro Engineering Co.: *See*—
Robison, Fulton C.
Mighton, S. E., Company, Bedford, Ohio. Food. Serial No. 606,157, Sept. 16. Class 46.
Miss Swank, Inc., New York, N. Y. Slips, petticoats, pajamas, etc. Serial No. 594,562, Sept. 16. Class 39.
Modern Optics, Incorporated, Houston, Tex. Ophthalmic lenses and lens blanks. Serial No. 624,557, Sept. 16. Class 26.
Modernize, Incorporated, Chicago, Ill. Upholstered and cloth covered furniture. Serial No. 624,753, Sept. 16. Class 32.
Modglin Company, Inc., Los Angeles, Calif. Plastic whisk hand brushes. Serial No. 586,983, Sept. 16. Class 29.
Monocraft Products Co., New York, N. Y. Jewelry. Serial No. 615,940, Sept. 16. Class 28.
Monsanto Chemical Company, St. Louis, Mo. Chemical grounding agents. Serial No. 624,965, Sept. 16. Class 6.
Monte Vista Flour Mills, The: *See*—
Colorado Milling & Elevator Co., The.
Morgan Steel Products, Inc., Cleveland, Ohio. Custom fabrication. Serial No. 624,415, Sept. 16. Class 106.
Moses, Saul, doing business as Dentocide Chemical Company, Baltimore, Md. Waxes and polishes. Serial No 604,985, Sept. 16. Class 4.
Motive Equipment Manufacturers, Inc., Chicago, Ill. Automobile hydraulic brake systems and replaceable parts. Serial No. 529,676, Sept. 16. Class 19.
"Motom" Societe a Responsabilite Limitee Zurich, Zurich, Switzerland. Motors cars, motorcycles, tricycles, etc. Serial No. 620,897, Sept. 16. Class 19.
Moyer, Walter W., Company, Ephrata, Pa. Underwear and sleeping garments. Serial No. 616,436, Sept. 16. Class 39.
Muench-Kreuzer Candle Co., Inc., Syracuse, N .Y. Candles. Serial No. 597,348, Sept. 16. Class 15.
Murine Company, Inc., The, Chicago, Ill. Preparations for the hygienic care of the eyes. Serial No. 608,322, Sept. 16. Class 18.
Murphy Products Company, Burlington, Wis. Hog feed. Serial No. 627,271, Sept. 16. Class 46.
N. V. Lemet Industrie, Hilversum, Netherlands. Bicycle and motorcycle parts. Serial No. 620,224, Sept. 16. Class 19.
National Cash Register Company, The, Dayton, Ohio. Adhesive cement. Serial No. 608,884, Sept. 16. Class 5.
National Cylinder Gas Company, Chicago, Ill. Therapeutic gas inhalation and administration equipment and parts thereof. Serial No. 580,142, Sept. 16. Class 44.
National Cylinder Gas Company, Chicago, Ill. Rack consisting principally of a metal framework. Serial No. 608,369, Sept. 16. Class 13.
National Synthetics, Inc., New York, N. Y. Pharmaceutical preparation. Serial No. 585,806, Sept. 16. Class 18.
Neo Dermic Laboratories, River Forest and Chicago, Ill. Medicinal preparation. Serial No. 573,049, Sept. 16. Class 18.
"Neue Amag" Automobil- & Motoren A. G., Zurich, Switzerland. Motorcycles. Serial No. 610,136, Sept. 16. Class 19.
New York Air Brake Company, The, Watertown and New York, N. Y. Air brakes, hydraulic brakes and electropneumatic brakes. Serial No. 615,396, Sept. 16. Class 19.
Nicholson File Company, Providence, R. I. Files and rasps. Serial No. 561,370, Sept. 16. Class 23.
Nil-O-Nal Co.: *See*—
O'Neil, Larson & McMahon.
Nocona Leather Goods Comany, Nocona, Tex. Baseball gloves. Serial No. 621,223, Sept. 16. Class 22.
Nolde and Horst Company, The, Reading, Pa. Women's hosiery. Serial No. 601,069, Sept. 16. Class 39.
Northwestern Canning and Packing Company: *See*—
Spoto, James P.
Odorite Sanitation Service of Baltimore, Inc., Baltimore, Md. Tire cleaner. Serial No. 593,363, Sept. 16. Class 52.
Officine Elettromeccaniche Puglioli & C., Ferrara, Italy. Motorcycles and lamp brackets. Serial No. 586,103, Sept. 16. Class 19.
Oneida Ltd., Oneida and Sherrill, N. Y. Silverplated flat and hollow tableware. Serial No. 609,140, Sept. 16. Class 28.
O'Neil, Larson & McMahon, doing business under the style name of Nil-O-Nal Co., Chicago, Ill. Hair dressing and conditioning preparation. Serial No. 625,484, Sept. 16. Class 51.
Oneita Knitting Mills, Utica, N. Y. Men's and boy's T-shirts, polo shirts, sweat shirts, etc. Serial No. 607,137, Sept. 16. Class 39.
Organon Inc., Orange, N. J. Medicinal hormone preparation. Serial No. 627,768, Sept. 16. Class 18.
Otis, McAllister & Co., San Francisco, Calif. Fruit nectars, canned fruits and vegetables; and dried fruits. Serial No. 621,416, Sept. 16. Class 46.
Ozark Canvas Corp., North Little Rock, Ark. Water bags. Serial No. 615,283, Sept. 16. Class 2.
Pagliuso Engineering Company: *See*—
Pagliuso, R. J.
Pagliuso, R. J., doing business as Pagliuso Engineering Company, Glendale, Calif. Camera tripods. Serial No. 624,701, Sept. 16. Class 26.
Pappas & Co., Mendota, Calif. Fresh melons. Serial No. 622,223, Sept. 16. Class 46.
Parke, Davis & Company, Detroit, Mich. Skin lotion. Serial No. 575,013, Sept. 16. Class 18.
Party Planners, Inc., Chicago, Ill. Collection of various types of party games, game instructions, and party favors. Serial No. 620,433, Sept. 16. Class 22.
Peppy Bits: *See*—
Downey, Joseph B.
Perez, Johnnie R., doing business as Elnnhoj Co., Dallas, Tex. Mexican hot sauce. Serial No. 628,007, Sept. 16. Class 46.
Permagrain Corporation, Miami, Fla. Refinishing and restyling old and used furniture. Serial No. 629,119, Sept. 16. Class 103.
Phillips, Joel M., doing business under the name and style of Advance Silk Co., New York, N. Y. Threads and yarns. Serial No. 621,420, Sept. 16. Class 43.
Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. Serial No. 604,543, Sept. 16. Class 46.
Pioneer Growers Co-Op, Belle Glade, Fla. Fresh vegetables. Serial No. 619,517, Sept. 16. Class 46.
Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Plasticizers. Serial No. 617,056, Sept. 16. Class 6.
Plibrico Jointless Firebrick Company, Chicago, Ill. Thermosetting plastic refractory material. Serial No. 612,348, Sept. 16. Class 12.
Pressed Steel Car Company, Inc., Chicago, Ill. Box cars and refrigeration cars. Serial No. 604,595, Sept. 16. Class 19.
Presto Lighters Limited, Montreal, Quebec, Canada. Cigar and cigarette pyrophoric lighters. Serial No. 586,817, Sept. 16. Class 8.
Princess Peggy, Inc., Peoria, Ill. Blouses, smocks and aprons. Serial No. 624,657, Sept. 16. Class 39.
Prole & Coogan Heating Company, Pittsburgh, Pa. Gas, oil, and coal fired furnaces. Serial No. 587,223, Sept. 16. Class 34.
Quality Macaroni Company, St. Paul, Minn. Macaroni. Serial No. 602,660, Sept. 16. Class 46.
Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, Canada. Fresh, frozen, and canned shell fish, canned salmon, etc. Serial No. 625,126, Sept. 16. Class 46.
Rain Bird Sprinkler Mfg. Corp., Glendora, Calif. Lawn and yard sprinklers. Serial No. 616,244, Sept. 16. Class 13.
Rentco Incorporated, Wilmington, Del., and Philadelphia, Pa. Lithographic printing machinery. Serial No. 603,942, Sept. 16. Class 23.
Rival Manufacturing Company, Kansas City, Mo. Hand-operated food shredders. Serial No. 614,572, Sept. 16. Class 23.
Robertshaw-Fulton Controls Company, Greensburg, Pa. Combined pilot and main burner gas valves and pilot burners. Serial No. 626,416, Sept. 16. Class 34.
Robison, Fulton C., doing business as Micro Engineering Co., Seattle, Wash. Miniature racing automobile and parts thereof. Serial No. 598,600, Sept. 16. Class 19.
Rock Island Millwork Company, Rock Island, Ill. Building woodwork. Serial No. 608,381, Sept. 16. Class 12.

Rockwood & Co., Brooklyn, N. Y. Chocolate confection candy pieces. Serial No. 470,350, Sept. 16. Class 46.
Roll-Rite Corporation, Oakland, Calif. Warehouse trucks, hand trucks, and wheels and casters therefor. Serial No. 569,642, Sept. 16. Class 19.
Roskin, I., Company, Inc., New York, N. Y. Finger rings and settings for finger rings. Serial No. 609,451, Sept. 16. Class 28.
Ross, M. C., Mfg. Co. Inc., New York, N. Y. Girls' blouses and dresses. Serial No. 608,568, Sept. 16. Class 39.
S & S International Corporation, New York, N. Y. Automotive engine parts. Serial No. 618,128, Sept. 16. Class 21.
Sanitube Company, The, Newport, R. I. Latex prophylactics. Serial No. 623,432, Sept. 16. Class 44.
Sasieni Ltd., London, England. Smokers' pipes, cigarette and cigar holders. Serial No. 622,758, Sept. 16. Class 8.
Sasser, A. C., doing business as A. C. "Al" Sasser Concessions, Dallas, Tex. Roasted peanuts. Serial No. 615,904, Sept. 16. Class 46.
Sasser, A. C. "Al," Concessions: *See*—
Sasser, A. C.
Savoy Watch Co., Inc., New York, N. Y. Watches, watch cases and watch findings. Serial No. 622,124, Sept. 16. Class 27.
Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical products. Serial No. 627,527, Sept. 16. Class 18.
Schering Corporation, Bloomfield, N. J. Radioactive medicinal preparation. Serial No. 620,527, Sept. 16. Class 18.
Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' princess slips. Serial No. 558,928, Sept. 16. Class 39.
Schwarcz, Adolf, & Son, Inc., New York, N. Y. Watches, including watch cases and watch movements. Serial No. 620,871, Sept. 16. Class 27.
Sears, Roebuck and Co., Chicago, Ill. Woven fiber rugs and carpeting. Serial No. 588,394, Sept. 16. Class 42.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Antibacterial preparation. Serial No. 625,760, Sept. 16. Class 18.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Penicillin preparation. Serial No. 625,761, Sept. 16. Class 18.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Adjunctive dietary supplement. Serial No. 625,762, Sept. 16. Class 18.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Vitamin preparation. Serial Nos. 625,763–6, Sept. 16. Class 18.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Biological antigenic preparation. Serial No. 625,767, Sept. 16. Class 18.
Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Aqueous emulsions. Serial No. 598,966, Sept. 16. Class 6.
Shell Chemical Corporation, New York, N. Y. Oil additive. Serial No. 620,931, Sept. 16. Class 15.
Shipstads and Johnson Ice Follies, The, Los Angeles, Calif. Entertainment services. Serial No. 621,171, Sept. 16. Class 107.
Sinkers Corporation, The, Kennett, Mo. De-linted cotton seeds. Serial No. 608,836, Sept. 16. Class 1.
Smith, Chester W., doing business under the name of Whitfield Chemical Company, Detroit, Mich. Powdered cleaning agent. Serial No. 601,478, Sept. 16. Class 52.
Smithco, Inc., Peoria, Ill. Ice cream bars. Serial No. 624,373, Sept. 16. Class 46.
Southern Biscuit Company, Incorporated, Richmond, Va., assignor to Weston Biscuit Company Inc. Biscuits, crackers, cookies, etc. Serial Nos. 557,564–5, Sept. 16. Class 46.
Southern Fur Service, Inc., Atlanta, Ga. Cleaning of furs and fur trimmed garments. Serial No. 620,791, Sept. 16. Class 103.
Special Milk Products, Inc., Los Angeles, Calif., now by change of name Jackson-Mitchell Pharmaceuticals, Inc. Vitamin B_{12}. Serial No. 600,455, Sept. 16. Class 18.
Speidel Corporation, Providence, R. I. Watch bracelets. Serial No. 616,058, Sept. 16. Class 28.
Sperry & Barnes Company, The: *See*—
Swift & Company.
Spiegel, Inc., Chicago, Ill. Row boats. Serial No. 614,221, Sept. 16. Class 19.
Spoto, James P., doing business under the name and style of Northwestern Canning and Packing Company, Seffner, Fla. Canned food. Serial No. 626,910, Sept. 16. Class 46.
Staley, A. E., Manufacturing Company, Decatur, Ill. Inedible starch. Serial No. 624,904, Sept. 16. Class 6.
Standard Cap and Seal Corporation, Chicago, Ill., now by change of name Standard Packaging Corporation. Bottle closure. Serial No. 616,251, Sept. 16. Class 50.
Standard Packaging Corporation: *See*—
Standard Cap and Seal Corporation.
Stanley Home Products, Inc., Westfield, Mass. Tooth powders, tooth pastes, scented crystals, etc. Serial No. 604,403, Sept. 16. Class 51.
Steffen Dairy Foods Company, Inc., Wichita, Kans. Ice milk. Serial No. 615,800, Sept. 16. Class 46.
Sterling Plastics Company, Union, N. J. Articles made at least in part of molded plastic—namely, rulers, protractors, etc. Serial No. 600,995, Sept. 16. Class 26.
Stevens, Frederic B., Incorporated, Detroit, Mich. Parting compounds. Serial No. 596,880, Sept. 16. Class 1.
Stifel, J. L., & Sons, Inc., Wheeling, W. Va. Shirting in the piece. Serial No. 625,639, Sept. 16. Class 42.
Stokes Tax Controls, Inc., New York, N. Y. Periodicals. Serial Nos. 611,156–7, Sept. 16. Class 38.
Swift & Company, Chicago, Ill., doing business as Iowa Packing Company, division of Swift & Company, Des Moines, Iowa, and as The Sperry & Barnes Company, New Haven, Conn. Bacon, dried beef, pork shoulder picnic, ham, etc. Serial No. 621,689, Sept. 16. Class 46.
Swift & Company, Chicago, Ill. Butter, shell eggs, frozen egg meats, etc. Serial No. 622,681, Sept. 16. Class 46.
Szakacs, Joseph J., doing business as Custom Hydrocraft, San Diego, Calif. Sailing and outboard motor boats and sails. Serial No. 605,273, Sept. 16. Class 19.
Tarrson Company, The, Chicago, Ill. Stuffed toy. Serial No. 614,018, Sept. 16. Class 22.
Taylor, Clarence P., Manhattan Beach, Calif. Cleaning powder. Serial No. 620,754, Sept. 16. Class 52.
Teitelbaum, Albert, Beverly Hills, Calif. Mink fur pelts. Serial No. 585,961, Sept. 16. Class 1.
Tennessee Valley Chemical Corp., White Plains, N. Y. Household deodorant. Serial No. 624,906, Sept. 16. Class 6.
Texcrete Company, The, Fort Worth, Tex. Concrete building blocks. Serial No. 609,061, Sept. 16. Class 12.
Thermoid Company, Trenton, N. J. Radiator hose. Serial No. 605,124, Sept. 16. Class 35.
Thompson, Carl R., Scappoose, Oreg. Apparatus for detachably connecting an electrical musical instrument. Serial No. 602,005, Sept. 16. Class 21.
Tiny Tot Comics, Inc., New York, N. Y. Magazine. Serial No. 624,668, Sept. 16. Class 38.
Totem Distributing Co., Seattle, Wash. Wooden handles for use in hammers, etc. Serial No. 623,091, Sept. 16. Class 23.
Tower Manufacturing Company, Oklahoma City, Okla. Ironing board. Serial No. 623,092, Sept. 16. Class 24.
Trans-Arabian Pipe Line Company, New York, N. Y. Delivery trucks, oil trucks, buses, and trailers. Serial No. 614,320, Sept. 16. Class 19.
Triumph Cycle Company Limited, London, England. Pedal-operated bicycles and tricycles. Serial No. 594,929, Sept. 16. Class 19.
Triumph Engineering Company Limited, Coventry and Allesley, Coventry, England. Motor cycles and structural parts thereof. Serial No. 584,559, Sept. 16. Class 19.
Trojan Powder Company, Allentown, Pa. Pentaerythritol technical, pentaerythritol pure, etc. Serial No. 619,776, Sept. 16. Class 6.
Tropical & Western Lumber Company, Los Angeles, Calif. Lumber. Serial No. 596,248, Sept. 16. Class 12.
Tubular Textile Machinery Corporation, Woodside, N. Y. Knitted piece goods. Serial No. 588,979, Sept. 16. Class 42.
Union Manufacturing Company, New Britain, Conn. Cast iron and semi-steel castings. Serial No. 612,569, Sept. 16. Class 14.
Unit Parts Company, Oklahoma City, Okla. Rebuilt automotive parts. Serial No. 621,690, Sept. 16. Class 23.
United Feature Syndicate, Inc., New York, N. Y. Comic drawings. Serial No. 624,062, Sept. 16. Class 38.
United States Gypsum Company, Chicago, Ill. Calcined plaster. Serial No. 609,455, Sept. 16. Class 12.
United States Gypsum Company, Chicago, Ill. Casting plaster. Serial No. 609,456, Sept. 16. Class 12.
United States Printing & Lithograph Company, The, Norwood, Ohio. Printed labels; printed point-of-sale advertising material. Serial No. 589,398, Sept. 16. Class 38.
U. S. Sanitary Specialties Corporation, Chicago, Ill. Polymerizing agent. Serial No. 624,433, Sept. 16. Class 6.
United States Steel Company: *See*—
Carnegie-Illinois Steel Corporation.
Universal Latex Corporation, Brockton, Mass. Baby pants and women's girdles. Serial No. 623,740, Sept. 16. Class 39.
Van Ameringen-Haebler, Inc., New York, N. Y. Food flavoring extract. Serial No. 622,134, Sept. 16. Class 46.
Ventaire Corporation, Tulsa, Okla. Louvre type metal awnings. Serial No. 576,941, Sept. 16. Class 12.
Verney Corporation, Manchester, N. H. Piece goods. Serial Nos. 614,587–8, Sept. 16. Class 42.
Victoria-Vogue, Inc., New York, N. Y. Powder puffs. Serial No. 625,644, Sept. 16. Class 29.
Ward Green Company, New York, N. Y. Girdles. Serial No. 601,670, Sept. 16. Class 39.
Ward Leonard Electric Company, Mount Vernon, N. Y. Electric resistors. Serial No. 624,168, Sept. 16. Class 21.
Water Chemists, Inc., Los Angeles, Calif. Chemical compounds. Serial No. 620,703, Sept. 16. Class 6.
Weiger Weed & Company, Detroit, Mich. Metal welding electrodes and welding electrode adapter shanks. Serial No. 621,594, Sept. 16. Class 14.
Weldon Farm Products, Inc., New York, N. Y. Nonfat dry milk solids. Serial No. 585,554, Sept. 16. Class 46.
Westfalia Separator Co., Oelde/Westfalia, Germany. Extraction centrifuges. Serial No. 625,556, Sept. 16. Class 23.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Electrical apparatus. Serial No. 605,542, Sept. 16. Class 21.

Weston Biscuit Company Inc., assignee: *See*—
Southern Biscuit Company, Incorporated.

Wheeling Corrugating Company, assignee: *See*—
Wheeling Steel Corporation.

Wheeling Steel Corporation, assignor to Wheeling Corrugating Company, Wheeling, W. Va. Metal shipping and storage pails, shipping and storage cans, etc. Serial No. 537,780, Sept. 16. Class 2.

White & Wyckoff Mfg. Co., Holyoke, Mass. Greeting cards. Serial No. 579,301, Sept. 16. Class 38.

Whitfield Chemical Company: *See*—
Smith, Chester W.

Willson Products, Inc., Reading, Pa. Ophthalmic mountings and parts thereof. Serial No. 593,309, Sept. 16. Class 26.

Wilson, J. F., Associates, Ltd., Davis, Calif. Rings for castrating and docking livestock. Serial No. 597,114, Sept. 16. Class 44.

Winthrop-Stearns Inc., New York, N. Y. Antibiotic and chemo-therapeutic preparations. Serial No. 627,234, Sept. 16. Class 18.

Wisteria Hosiery Mills, Inc., Gastonia, N. C. Ladies' hosiery. Serial No. 619,664, Sept. 16. Class 39.

Wolch Nut & Candy Co., Chicago, Ill. Candy. Serial No. 623,814, Sept. 16. Class 46.

Wood, Gar, Industries, Inc., Wayne, Mich. Bodies for garbage and refuse hauling trucks. Serial No. 581,661, Sept. 16. Class 19.

Yorkshire Copper Works Limited, The, Stourton, Leeds, England. Metal tubes. Serial Nos. 625,510–12, Sept. 16. Class 13.

LIST OF REGISTRANTS OF TRADE-MARKS

A. P. W. Paper Company, Inc., to A. P. W. Products Company, Inc., Albany, N. Y. Toilet paper. 297,632, renewed Sept. 20, 1952. O. G. Sept. 16. Class 37.

A. P. W. Products Company, Inc.: *See*—
A. P. W. Paper Company, Inc.
Albany Perforated Wrapping Paper Company.

Agricultural Supply Company, The, Spring Green, Wis. Mechanical power-driven sprayers. 443,815, Mar. 7, 1950. Canceled June 9, 1952. O. G. Sept. 16. Class 23.

Air Associates, Inc., Teterboro, N. J. Electric motors, solenoids, radio receivers, etc. 564,031, Sept. 16; Serial No. 583,734, published June 24, 1952. Class 21.

Aktiebolaget Bofors, Bofors, Sweden. Medicinal, veterinary and pharmaceutical preparations. 564,074, Sept. 16; Serial No. 606,929, published May 20, 1952. Class 18.

Aktien Gesellschaft für Pharmaceutische Produkte, Lucerne, Switzerland. Pharmaceutical preparation. 307,611, Oct. 31, 1933. Canceled June 9, 1952. O. G. Sept. 16. Class 6.

Alaska Fish Co., to San Juan Fishing & Packing Co., Seattle, Wash. Canned salmon. 88,821, re-renewed Oct. 29, 1952. O. G. Sept. 16. Class 46.

Albany Perforated Wrapping Paper Company, to A. P. W. Products Company, Inc., Albany, N. Y. Toilet-paper. 87,964–5, re-renewed Aug. 20, 1952. O. G. Sept. 16. Class 37.

Alliance Manufacturing: *See*—
Gronek, John.

American Air Filter Company, Inc., Louisville, Ky. Rolls of air filter cloth. 564,091, Sept. 16; Serial No. 610,659, published June 24, 1952. Class 42.

American Art Clay Company, Indianapolis, Ind. Modeling clay. 564,088, Sept. 16; Serial No. 610,251, published June 10, 1952. Class 1.

American Cyanamid Company, New York, N. Y. Synthetic fiber. 564,182, Sept. 16; Serial No. 621,117, published May 27, 1952. Class 1.

American Lumber & Treating Co., Chicago, Ill. Forest products. 564,004–05, Sept. 16; Serial Nos. 558,987-8, published June 17, 1952. Class 12.

American Metalcraft Corporation, Detroit, Mich. Safety extension pyrophoric lighters. 564,226, Sept. 16; Serial No. 553,798. Class 34.

American Monomer Corporation, Leominster, Mass. Synthetic rubber. 564,165, Sept. 16; Serial No. 619,961, published June 17, 1952. Class 1.

America Oil Company, The, Baltimore, Md. Motor oils and greases, auto oils and greases, etc. 298,021, renewed Oct. 11, 1952. O. G. Sept. 16. Class 15.

American Optical Company, Southbridge, Mass. Electrical heating core and shell. 564,065, Sept. 16; Serial No. 603,350, published June 24, 1952. Class 21.

American Radiator Company, New York, N. Y. Wrought copper and other metal pipe fittings. 3,64,640. Feb. 7, 1939. Canceled June 9, 1952. O. G. Sept. 16. Class 13.

Anderson, Clayton & Co., Houston, Tex. Infants' blankets. 564,205–08. Sept. 16; Serial Nos. 625,232–5, published June 24, 1952. Class 42.

Anderson, Clayton & Co., Houston, Tex. Infants' blankets. 564,209–10. Sept. 16; Serial Nos. 625,244–5, published June 24, 1952. Class 42.

Andrew, Lucy B., Jamaica, N. Y. Kits for home permanents. 564,122. Sept. 16; Serial No. 614,738, published June 17, 1952. Class 44.

Anspat Co., Fallbrook, Calif. Animal training paddles. 564,066. Sept. 16; Serial No. 603,428, published June 24, 1952. Class 3.

Archer Productions, Inc., New York, N. Y. Advertising services. 564,220, Sept. 16; Serial No. 597,376, published June 24, 1952. Class 101.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipstick, rouge and nailpolish. 564,168, Sept. 16; Serial No. 620,185, published May 20, 1952. Class 51.

Armour and Company, Chicago, Ill. Soaps and synthetic detergents. 564,095, Sept. 16; Serial No. 611,068, published June 17, 1952. Class 52.

Armstrong Cork Company, Lancaster, Pa. Felt base floor covering. 564,186, Sept. 16; Serial No. 621,352, published June 24, 1952. Class 20.

Armstrong Paint & Varnish Works, Chicago, Ill. Glazier's putty, asphalt for roofing, flooring and driveways, liquid tar, etc. 564,000, Sept. 16; Serial No. 556,056, published June 17, 1952. Class 12.

Art-Cement Manufacturing Co.: *See*—
Davis, Benjamin F.

Art-Cement Mfg. Co.: *See*—
Davis, Benjamin F.

Associated Plywood Mills, Inc., Eugene, Oreg. Lumber and plywood. 564,029, Sept. 16; Serial No. 584,381, published June 17, 1952. Class 12.

Autogas Company, Chicago, Ill. Blowers and controls therefor. 564,230, Sept. 16; Serial No. 590,065. Class 34.

"Automatic" Sprinkler Corporation of America, Youngstown, Ohio. Pressure tank fire prevention sprinkler systems. 564,079, Sept. 16; Serial No. 608,849, published July 1, 1952. Class 13.

"Automatic" Sprinkler Corporation of America, Youngstown, Ohio. Pressure tank fire prevention sprinkler systems. 564,080, Sept. 16; Serial No. 608,856, published July 1, 1952. Class 13.

B. V. D. Company, Inc., The, Baltimore, Md., to The B. V. D. Company, Inc., New York, N. Y. Underwear. 294,098, renewed May 17, 1952. O. G. Sept. 16. Class 39.

Baker, George, Beverly Hills, Calif. Cartoons and comic strips. 428,865, Apr. 8, 1947. Republished Sept. 16. Class 38.

Bakress Mattress Co.: *See*—
Jones, Clarkson.

Barker Bros. Corporation, Los Angeles, Calif. Upholstered furniture. 564,093, Sept. 16; Serial No. 610,817, published June 24, 1952. Class 32.

Bates Manufacturing Company, Lewiston and Augusta, to Bates Manufacturing Company, Lewiston, Maine. Bed spreads. 296,006, renewed July 19, 1952. O. G. Sept. 16. Class 42.

Belmont Clothes, Inc., Baltimore, Md. Men's and young men's suits, trousers, slacks, etc. 564,181, Sept. 16; Serial No. 621,050, published June 24, 1952. Class 39.

Benjamin & Johnes, Incorporated, Newark, N. J. Foundation garments. 294,005, renewed May 10, 1952. O. G. Sept. 16. Class 39.

Bernad Creations, Ltd., Mount Vernon, N. Y. Ash-trays, cigarette boxes, and cigarette lighters. 564,133, Sept. 16; Serial No. 616,620, published June 10, 1952. Class 8.

Bloom Bros. Bag Co., Boston, Mass. Ladies' shoulder bags, handbags, club bags, etc. 564,138. Sept. 16; Serial No. 617,140, published June 24, 1952. Class 3.

Bloomingdale Bros., Inc., to Federated Department Stores, Inc., New York, N. Y. Women's and misses' hats. 298,029, renewed Oct. 11, 1952. O. G. Sept 16. Class 39.

Bloomingdale Bros., Inc., to Federated Department Stores, Inc., New York, N. Y. Olive oil shampoo, essence of peppermint, bay rum West Indian, etc. 298,283, renewed Oct. 18, 1952. O. G. Sept. 16. Class 51.

Bluebird Diamond Syndicate, Inc., Chicago, Ill. Diamonds and diamond rings. 294,484, renewed May 31, 1952. O. G. Sept. 16. Class 28.

Blue Ridge Glass Corporation, Kingsport, Tenn. Flat glass. 563,988, Sept. 16; Serial No. 534,988, published May 27, 1952. Class 33.

Bohr, Marcia C., San Francisco, to Marcia C. Bohr, Burlingame, Calif. Combination trouser skirts. 294,090, renewed May 17, 1952. O. G. Sept. 16. Class 39.

Bonat, Samuel, & Bro. Inc., Paterson, N. J. Permanent hair waving solution and permanent hair waving cream. 394,051, Mar. 17, 1942. Republished Sept. 16. Class 51.

Book Agents of the Methodist Episcopal Church, South: *See*—
Lamar & Whitmore, Book Agents, Publishing House, Methodist Episcopal Church, South.

Bourjois, Inc.: *See*—
Woodworth, C. B., Sons, Co., The.

Boyle and Company: *See*—
Boyle & Company.

Boyle & Company, by Boyle and Company, Los Angeles, Calif. Malt compound containing liver extract, yeast, and vitamins. 386,333, Apr. 1, 1941. Republished Sept. 16. Class 18.

Boyle and Company, by Boyle and Company, Los Angeles, Calif. Rectal suppositories and ointment. 433,234, Sept. 30, 1947. Republished Sept. 16. Class 18.

Boyle and Company, by Boyle and Company, Los Angeles, Calif. Ointment. 433,238, Sept. 30, 1947. Republished Sept. 16. Class 18.

Boyle Leather Goods Co., Inc., New York, N. Y. Handbags, pocketbooks, portfolios, etc. 564,092, Sept. 16; Serial No. 610,736, published June 24, 1952. Class 3.

Brauer Bros. Shoe Company, by Brauer Bros. Shoe Company (1941), St. Louis, Mo. Women's shoes. 342,534, Jan. 19, 1937. Republished Sept. 16. Class 39.

Brauer Bros. Shoe Company (1941): *See*—
Brauer Bros. Shoe Company.

Bray, Geo., & Co., Limited, Leeds, England. Gas burners. 87,724–5, re-renewed Aug. 6, 1952. O. G. Sept. 16. Class 34.

Bréard, Paul, Nancy (Meurthe and Moselle), France. Sutures. 564,152, Sept. 16; Serial No. 618,072, published June 17, 1952. Class 44.

Brody, Rose, doing business as Brody's Contoura Salon, Bala Cynwyd, Pa. Hair styling, shaping, permanent waving, etc. 564,253, Sept. 16; Serial No. 610,162. Class 100.

Brody's Contoura Salon: *See*—
Brody, Rose.

Brosius, Edgar E., Company Inc., Pittsburgh, Pa., now by change of name Salem-Brosius, Inc. Engineering services. 564,217, Sept. 16; Serial No. 583,327, published June 24, 1952. Class 100.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Partially printed score sheets and scoring pencils and crayons. 564,153, Sept. 16; Serial No. 618,150, published May 20, 1952. Class 37.

Bulova Watch Company, Inc., New York, N. Y. Watches. 564,061, Sept. 16; Serial No. 602,797, published May 27, 1952. Class 27.

Bunte Brothers: *See*—
Teakwood, Inc.

Burlington Mills Corporation, assignee: *See*—
National Mallinson Fabrics Corporation.

Burton Brothers & Co. Inc., New York, N. Y. Cotton piece goods. 298,694, renewed Nov. 1, 1952. O. G. Sept. 16. Class 42.

Butler Manufacturing Company, Kansas City, Mo. Tank type liquid filtering units. 564,242. Sept. 16; Serial No. 609,330. Class 31.

C C Manufacturing Co., Chicago, Ill. Stainless steel mixing bowls, fruit bowls, baking sheets, etc. 564,012. Sept. 16; Serial No. 569,079, published July 1, 1952. Class 13.

Cadence Lingerie Co.: *See*—
Newark Slip Contracting Co., Inc.

California Chemical Compounds Inc., Los Angeles, Calif. Anti-freeze. 564,020. Sept. 16; Serial No. 578,486, published June 17, 1952. Class 6.

California Saw Works, San Francisco, Calif. Power driven circular saws. 563,997, Sept. 16; Serial No. 553,814, published May 20, 1952. Class 23.

Camp, Harry, Millinery Company, San Francisco, Calif. Ladies' hats. 558,575, May 6, 1952. Canceled Aug. 4, 1952. O. G. Sept. 16. Class 39.

Campana Corporation, Batavia, Ill. Lotions for the skin. 564 140, Sept. 16; Serial No. 617,224, published Apr. 15, 1952. Class 51.

Casa de' Nictolis, Fond du Lac, Wis. Cheese. 564,250, Sept. 16; Serial No. 623,873. Class 46.

Casa Goldtree Liebes & Co.: *See*—
Goldtree, Liebes & Co.

Cassell Products Inc., New York, N. Y. Perfume, toilet water, dusting powder, etc. 564,089, Sept. 16; Serial No. 610,255, published May 20, 1952. Class 51.

Ceasan, J. N., Company, Los Angeles, Calif. Electric garbage disposal units. 564,062. Sept. 16; Serial No. 602,799, published June 17, 1952. Class 21.

Chambers Corporation, Shelbyville, Ind. Oven section of a gas range. 564,233, Sept. 16; Serial No. 593,220. Class 34.

Chemical Corporation, The, Springfield, Mass. Powdered hand soap. 564,047, Sept. 16; Serial No. 594,421, published June 3, 1952. Class 52.

Chicago Mail Order Company, Chicago, Ill. Men's and boys' suits and overcoats, underwear, hosiery, etc. 389,319, July 29, 1941. Canceled Aug. 8, 1952. O. G. Sept. 16. Class 39.

Chirurg, James Thomas, Company, Boston, Mass. Designing and preparing advertising lay outs. 564,252, Sept. 16; Serial No. 567,755. Class 101.

Christy, Inc., Newark, N. Y. Cosmetics. 564,110, Sept. 16; Serial No. 612,728, published May 20, 1952. Class 51.

Ciba Limited: *See*—
Society of Chemical Industry in Basle.

Clap, Harvey, & Company, to R. F. Simmons Company, Attleboro, Mass. Metal articles of jewelry. 297,218, renewed Sept. 6, 1952. O. G. Sept. 16. Class 28.

Clarostat Mfg. Co., Inc., Dover, N. H. Flexible resistors. 564,191, Sept. 16; Serial No. 622,010, published July 1, 1952. Class 21.

Clarostat Mfg. Co., Inc., Dover, N. H. Power resistors. 564,192, Sept. 16; Serial No. 622,011, published July 1, 1952. Class 21.

Coffey-Hoyt Products, Inc., Gardena, Calif. Sheet plastic, resinous, translucent material. 564,026, Sept. 16; Serial No. 582,126, published May 20, 1952. Class 1.

College Maid Company, Inc., New York, N. Y. Ladies' underwear. 514,644, Aug. 30, 1949. Canceled Aug. 8, 1952. O. G. Sept. 16. Class 39.

Collins Company, The, Collinsville, Conn. Axes, hatchets, adzes, etc. 89,008, re-renewed Nov. 5, 1952. O. G. Sept. 16. Class 23.

Colorado Milling & Elevator Co., The, Denver, Colo., and Twin Falls, Idaho, to The Colorado Milling & Elevator Co., Denver, Colo. Cake flour. 298,095, renewed Oct. 11, 1952. O. G. Sept. 16. Class 46.

Comfort Pillow & Feather Company, Somerville and Boston, Mass. Pillows. 564,146, Sept. 16; Serial No. 617,837, published June 24, 1952. Class 32.

Compco Corporation, Chicago, Ill. Ash stands. 564,050, Sept. 16; Serial No. 594,953, published July 1, 1952. Class 32.

Concert Hall Society, Inc., New York, N. Y. Mechanically grooved phonograph records. 564,116, Sept. 16; Serial No. 613,763, published July 1, 1952. Class 36.

Congoleum-Nairn, Inc., Kearny, N. J. Flexible floor and wall coverings. 564,190, Sept. 16; Serial No. 621,950, published June 24, 1952. Class 20.

Conserves Hero Lenzbourg, Lenzbourg, Switzerland. Canned fruits and vegetables, marmalades and jams and canned meats. 564,059, Sept. 16; Serial No. 601,199, published June 17, 1952. Class 46.

Conversaphone Institute, also doing business under the name and style of The Conversaphone Institute, New York, N. Y. Grooved phonograph records. 564,118, Sept. 16; Serial No. 614,135, published July 1, 1952. Class 36.

Conversaphone Institute, The: *See*—
Conversaphone Institute.

Corrao, Antonio, New York, to Antonio Corrao Corporation, Brooklyn, N. Y. Olive oil. 293,233, renewed Apr. 19, 1952. O. G. Sept. 16. Class 46.

Corrao, Antonio, Corporation: *See*—
Corrao, Antonio.

Coty, Inc., New York, N. Y. Perfume, face powder and face cream. 564,171, Sept. 16; Serial No. 620,401, published June 17, 1952. Class 51.

Coughlan, G. N., Company, West Orange, N. J. Liquid paint brush and roller cleaner and preserver. 564,189, Sept. 16; Serial No. 621,817, published June 17, 1952. Class 52.

Crompton Company, Crompton, R. I. Velvet fabrics. 564,244. Sept. 16; Serial No. 612,485. Class 42.

D'Alton, William, Paris, France. Flints. 564,134. Sept. 16; Serial No. 616,660, published June 24, 1952. Class 8.

Davis, A., & Sons, Inc., New York, N. Y. Ladies' and misses' coats and jackets. 525,172, May 9, 1950. Canceled June 13, 1952. O. G. Sept. 16. Class 39.

Davis, Benjamin F., doing business as Art-Cement Mfg. Co., to Art-Cement Manufacturing Co., Miami, Fla. Paints. 293,736, renewed May 3, 1952. O. G. Sept. 16. Class 16.

De Degetau, Maria P. N., trading as Productos Marpe, San Luis Potosi, S. L. P., Mexico. Mole, a Mexican dish consisting of red pepper and seasoning; etc. 564,075, Sept. 16; Serial No. 607,435, published June 24, 1952. Class 46.

Delma Mfg. Co., Inc., Providence, R. I., and New York, N. Y. Necklaces, bracelets, finger rings, etc. 564,027, Sept. 16; Serial No. 582,470, published May 20, 1952. Class 28.

Delta Jewelry Corporation, New York, N. Y. Jewelry. 564,016, Sept. 16; Serial No. 572,022, published May 27, 1952. Class 28.

Detrex Corporation, Detroit, Mich. Degreasing and drying solvents. 564,072, Sept. 16; Serial No. 606,699, published June 17, 1952. Class 52.

Devoe & Raynolds Company, Inc.: *See*—
Jones-Dabney Company, Inc.

Dexdahl, Inc., Cohasset, Mass. Bootholders. 564,236, Sept. 16; Serial No. 598,988. Class 50.

Becton, Dickinson, and Company, Rutherford, N. J. Syringes and needles made for hypodermic and other medical and surgical uses, clinical thermometers, etc. 563,989, Sept. 16; Serial No. 538,859, published June 10, 1952. Class 44.

Dietz, R. E., Company, New York, to R. E. Dietz Company, Syracuse, N. Y. Portable fire extinguishers. 296,686, renewed Aug. 16, 1952. O. G. Sept. 16. Class 23.

Dobais, Jacques, Inc., New York, N. Y. Perfume, eau de cologne, toilet water, etc. 564,102, Sept. 16; Serial No. 611,774, published June 17, 1952. Class 51.

Dollar, Robert, Co., The, San Francisco, Calif. Logs. 564,180, Sept. 16; Serial No. 620,724, published June 17, 1952. Class 1.

Dryer, Clark & Dryer Oil Company, Oklahoma City, Okla. Motor oil. 385,283, Feb. 25, 1941. Republished Sept. 16. Class 15.

Duart Manufacturing Co., Ltd., San Francisco, Calif. Shampoo. 564,147, Sept. 16; Serial No. 617,867, published June 17, 1952. Class 52.

Dunleavy, James F., Boston, to James F. Dunleavy, Waltham, Mass. Filing supplies. 294,119, renewed May 17, 1952. O. G. Sept. 16. Class 37.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Smokeless shotgun powder. 298,331, renewed Oct. 25, 1952. O. G. Sept. 16. Class 9.

E-Z Playing Card Co., Quincy, Mass. Playing cards. 564,137, Sept. 16; Serial No. 617,110, published June 24, 1952. Class 22.

Electronic Creations Co. Inc., New York, N. Y. Electric phonograph record players and combination radio-phonograph sets. 564,169, Sept. 16; Serial No. 620,308, published June 24. Class 1.

Emmental Cheese Corporation, New York, N. Y. Cheese. 564,149–50, Sept. 16; Serial Nos. 617,955–6, published June 24, 1952. Class 46.

Esso Standard Oil Company: *See*—
Standard Oil Company of New Jersey.

Faber, A. W., Stein near Nuremberg, Germany. Lead pencils, pencil holders, colored pencils, etc. 117,941, Jan. 1, 1924. Cancelled Aug. 8, 1952. O. G. Sept. 16. Class 37.

Fairfax Distributing Co., Inc., Washington, D. C. Finger rings. 564,083, Sept. 16; Serial No. 609,290, published May 27, 1952. Class 28.

Fairmont Tool & Forging, Inc., Buffalo, N. Y. Wrenches. 564,151, Sept. 16; Serial No. 617,987, published May 20, 1952. Class 23.

Federal Telephone and Radio Corporation, Clifton, N. J. Air and water cooled television transmitters and componenta thereof, television cameras, etc. 564,214, Sept. 16; Serial No. 625,792, published July 1, 1952. Class 21.

Federated Department Stores, Inc.: *See*—
Bloomingdale Bros., Inc.

Federated Supply Corporation, New York, N. Y. Smokers' pipes, cigarette holders, cigar holders, etc. 564,156, Sept. 16; Serial No. 618,492, published June 24, 1952. Class 8.

Fidalgo Island Packing Company, Anacortes, to Fidalgo Island Packing Company, Seattle, Wash. Canned salmon. 298,447, renewed Oct. 25, 1952. O. G. Sept. 16. Class 46.

Filippone, B., and Co., Inc.: *See*—
Filippone, B., & Co.

Filippone, B., & Co., to B. Filippone and Co., Inc., Passaic, N. J. Canned peas, canned tomatoes, and canned tuna fish, etc. 297,901, renewed Oct. 4, 1952. O. G. Sept. 16. Class 46.

Firman Leather Goods Corp., New York, N. Y. Suitcases, overnight cases, pullman cases, etc. 564,068, Sept. 16; Serial No. 603,919, published June 24, 1952. Class 3.

First National Stores Inc.: *See*—
Millbrook Producta Co.

Fish, Eugene, doing business under the trade name Perma-Chrome Company, Batlimore, Md. Chrome polish. 564,085, Sept. 16; Serial No. 609,640, published June 17, 1952. Class 4.

Flex-O-Glass, Inc., assignee: *See*—
Warp, Harold.

Flex-O-Glass Manufacturing Co.: *See*—
Warp, Harold.

Florence Manufacturing Company, Northampton, Mass., New York, N. Y., and Chicago, Ill., to The Lambert Company, Northampton, Mass. Hair-brushes, nail-brushes, flesh-brushes, etc. 38,571, re-renewed July 8, 1952. O. G. Sept. 16. Class 29.

Forker Corporation, The, Cleveland, Ohio. Overhead transportation systems. 564,010, Sept. 16; Serial No. 566,797, published May 27, 1952. Class 23.

Foster, Edson P., Manitowoc, Wis. Sporting apparatus. 564,060, Sept. 16; Serial No. 601,666, published June 24, 1952. Class 22.

Foster's Freeze National Corporation, Beverly Hills, Calif. Dry and liquid ice milk mix and frozen ice milk. 564,237, Sept. 16; Serial No. 600,330. Class 46.

Four Guys Products, Inc., New York, N. Y. Toy figure. 564,136, Sept. 16; Serial No. 616,953, published July 1, 1952. Class 22.

Franklin Oil & Gas Company, The, Bedford, Ohio. Preparation for prevention and elimination of rust. 298,641, renewed Nov. 1, 1952. O. G. Sept. 16. Class 52.

Freeman, H., & Sons, Inc., Philadelphia, Pa. Men's suits, trousers, sport coats, etc. 564,172, Sept. 16; Serial No. 620,411, published June 24, 1952. Class 39.

Friesche Coöperatieve Zuivel-Export-Vereeniging, Kortheidshalve Frico, Leeuwarden, Netherlands. Casein 361,433, Oct. 18, 1939. Republished Sept. 16. Class 1.

Friesche Coöperatieve Zuivel-Export-Vereeniging, Kortheidshalve Frico, Leeuwarden, Netherlends. Butter, cheese, milk powder, etc. 361,434, Oct. 18, 1938. Republished Sept. 16. Class 46.

Garden State Seed Co., Inc., Newark, N. J. Lawn seed mixtures. 564,173–4, Sept. 16; Serial Nos. 620,464–5, published June 17, 1952. Class 1.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 564,123–4, Sept. 16; Serial Nos. 615,057–8, published May 20, 1952. Class 28.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. 564,125, Sept. 16; Serial No. 615,059, published May 13, 1952. Class 28.

General American Transportation Corporation, Chicago, Ill. Children's folding toilet seats. 564,045, Sept. 16; Serial No. 592,900, published June 24, 1952. Class 13.

General Refractories Company, Philadelphia, Pa. Chrome-magnesite, air-setting, high temperature, bonding mortar. 564,098, Sept. 16; Serial No. 611,353, published June 17, 1952. Class 12.

Gibbs Underwear Company, Philadelphia, Pa. Underwear, polo shirts, T shirts, etc. 564,056, Sept. 16; Serial No. 597,439, published June 17, 1952. Class 39.

Gilmore, Arthur, Inc., New York, N. Y. Trunks, suit cases, wardrobe cases, etc. 564,017, Sept. 16; Serial No. 574,579, published June 24, 1952. Class 3.

Globe Solvents Co., Inc.: *See*—
Handler, Joseph.

Globe-Wernicke Co., The, Cincinnati, Ohio. Lavatory sinks. 564,126, Sept. 16; Serial No. 615,177, published July 1, 1952. Class 13.

Goetze, Albert F., Incorporated, Baltimore, Md. Meat products. 563,990, Sept. 16; Serial No. 541,667, published June 24, 1952. Class 46.

Gold Par Products Co., Inc., New York, N. Y. Laundry soaps and alkali compound detergents. 543,295, June 5, 1951. Canceled Aug. 8, 1952. O. G. Sept. 16. Class 52.

Golden Girl Frocks, Inc., New York, N. Y. Children's and girls' dresses. 564,198, Sept. 16; Serial No. 623,275, published June 24, 1952. Class 39.

Goldtree, Llebes & Co., San Salvador, Santa Ana, and Sonsonate, to Casa Goldtree Llebes & Co., San Salvador, Salvador. Wheat flour. 296,897, renewed Aug. 23, 1952. O. G. Sept. 16. Class 46.

Goodman and Company, Indianapolis, Ind. Finger rings, brooches, scarf pins, etc. 564,148, Sept. 16; Serial No. 617,915, published May 27, 1952. Class 28.

Granat Bros., San Francisco, Calif. Finger rings. 563,991, Sept. 16; Serial No. 542,934, published May 27, 1952. Class 28.

Green, Samuel, of California, Los Angeles, Calif. Maternity clothing. 564,17, Sept. 16; Serial No. 615,316, published June 24, 1952. Class 39.

Greenfield Tap and Die Corporation, Greenfield, Mass. Stocks and dies, and screw plates. 564,076, Sept. 16; Serial No. 607,548, published May 13, 1952. Class 23.

Grennan Bakeries, Inc., to Purity Bakeries Corporation, Chicago, Ill. Cake, cookies, and other bakery products. 293,466, renewed Apr. 26, 1952. O. G. Sept. 16. Class 46.

Grid-L Rich, Inc., Chicago, Ill. Prepared pancake and waffle batter. 564,235, Sept. 16; Serial No. 597,751. Class 46.

Gronek, John, doing business under the name and style of Alliance Manufacturing, Chicago, Ill. Fishing tackle. 564,021, Sept. 16; Serial No. 578,593, published July 1, 1952. Class 22.

Guerlain, Inc.: *See*—
Guerlain Perfumery Corporation of Delaware.

Guerlain Perfumery Corporation of Delaware, Wilmington, Del., and New York, N. Y., to Guerlain, Inc., New York, N. Y. Perfumes. 298,844, renewed Nov. 8, 1952. O. G. Sept. 16. Class 51.

Halferty, G. P., & Co., Seattle, Wash. Canned fish. 564,142, Sept. 16; Serial No. 617,439, published June 17, 1952. Class 46.

Handee Products Mfg. Co.: *See*—
Handler, Joseph.

Handler, Joseph, doing business as Handee Products Mfg. Co., by Globe Solvents Co., Inc., Philadelphia, Pa. Dry cleaners. 281,535, Mar. 24, 1931. Republished Sept. 16. Class 52.

Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Industrial polishing buffs. 564,232, Sept. 16; Serial No. 591,419. Class 4.

Hapman Conveyors, Inc., Detroit, Mich. Sealing devices for flight conveyors. 564,025, Sept. 16; Serial No. 580,240, published Apr. 29, 1952. Class 23.

Harvey Laboratories, Incorporated, Philadelphia, Pa. Local anesthetic. 564,119, Sept. 16; Serial No. 614,439, published May 27, 1952. Class 18.

Heard & McCourry, to T. C. McCourry, Oklahoma City, Okla. Small, portable thermally insulated metal chests. 532,035, Oct. 17, 1950. New certificate. O. G. Sept. 16. Class 2.

Hinze Ambrosia, Inc.: *See*
Pearce, Louis H.

Holliston Mills, Inc., The, Norwood, Mass. Cotton piece goods and filled and finished cotton piece goods. 298,572, renewed Nov. 1, 1952. O. G. Sept. 16. Class 42.

Hollywood-Maxwell Company, Los Angeles, Calif. Brassières. 564,231, Sept. 16; Serial No. 591,296. Class 39.

Holmes, Archibald, & Son, Philadelphia, Pa. Wilton, Axminster, and velvet carpets and rugs. 564,200, Sept. 16; Serial No. 623,415, published June 24, 1952. Class 42.

Holmes, Archibald, & Son, Philadelphia, Pa. Wilton, Axminster, and velvet carpets and rugs. 564,201, Sept. 16; Serial No. 624,234, published June 24, 1952. Class 42.

Holmes, Archibald, & Son, Philadelphia, Pa. Wilton, Axminster, and velvet carpets and rugs. 564,203–04, Sept. 16; Serial No. 624,411–12, published June 24, 1952. Class 42.

Home Craftsman Publishing Corporation: *See*—
Walker-Turner Co., Inc.

Home Life Insurance Company, New York, N. Y. Bulletins and pamphlets. 294,560, renewed May 31, 1952. O. G. Sept. 16. Class 38.

Honig, Jack L., Inc., New York, N. Y. Children's dresses. 564,034, Sept. 16; Serial No. 586,243, published June 24, 1952. Class 39.

Hormel, Geo. A., & Company, Austin, Minn. Salt pork. 297,514, renewed Sept. 20, 1952. O. G. Sept. 16. Class 46.

Hudnut, Richard, New York, N. Y. Foundation lotion and lipstick. 564,106, Sept. 16; Serial No. 612,326, published May 20, 1952. Class 51.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand-operated sprayers. 564,064, Sept. 16; Serial No. 603,060, published Apr. 29, 1952. Class 23.

Hudson Products: *See*—
Wernet Dental Mfg. Co., Inc.

Hunt, Rodney Machine Co., Orange, Mass., by change of name from Rodney Hunt Machine Company. Industrial rolls and reels; water controlling apparatus, water power generating apparatus, etc. 564,013, Sept. 16; Serial No. 569,520, published May 13, 1952. Class 23.

Hunt, Rodney Machine Company: *See*—
Hunt, Rodney Machine Co.

Huntington Laboratories, Inc., Huntington, Ind. Disinfectant. 297,469, renewed Sept. 13, 1952. O. G. Sept. 16. Class 6.

Hyster Company, Portland, Oreg. Lift trucks. 564,164, Sept. 16; Serial No. 619,509, published May 6, 1952. Class 23.

Illinois Fibre Specialty Company, Chicago, Ill. Fibre board padding for chair backs and seats, etc. 564,196, Sept. 16; Serial No. 622,439, published July 1, 1952. Class 32.

Imperial Chemical Industries Limited, London and Millbank, London, England. Car polishes, polishes for painted and enameled surfaces, etc. 564,049, Sept. 16; Serial No. 594,776, published June 17, 1952. Class 4.

Industrial Starter Corporation, New York, N. Y. Fluorescent lamp starters. 564,117, Sept. 16; Serial No. 613,875, published June 17, 1952. Class 21.

Interchemical Corporation: *See*—
Ruxton, Philip, Inc.

Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Electric motors, electric engine starters, electric generators, etc. 564,141, Sept. 16; Serial No. 617,401, published June 24, 1952. Class 21.

Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Bearing alloys and white metal alloys. 321,896, Feb. 19, 1935. Republished Sept. 16. Class 14.

Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Bearing alloys, babbitt metals, and white-metal alloys. 338,938, Sept. 22, 1936. Republished Sept. 16. Class 14.

Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y. Bearing alloys, babbitt metals and white metal alloys. 361,898, Nov. 1, 1938. Republished Sept. 16. Class 14.

Jacobs, E. H., Manufacturing Co., Inc., Danielson, Conn. Loom supplies. 564,001, Sept. 16; Serial No. 558,724, published May 13, 1952. Class 23.

Jamestown Metal Products, Inc., Jamestown, N. Y. Sinks and drain boards. 564,251, Sept. 16; Serial No. 626,676. Class 13.

Jasper Glove Company, Inc., Jasper, Ind. Work gloves. 564,030, Sept. 16; Serial No. 585,150, published May 20, 1952. Class 39.

Jones, Clarkson, doing business as Bakress Mattress Co., Charlotte, N. C. Mattresses. 564,249, Sept. 16; Serial No. 618,800. Class 32.

Jones-Dabney Company, Inc., Louisville, Ky., to Devoe & Raynolds Company, Inc., New York, N. Y. Ready-mixed lacquers, varnishes, paint enamels, etc. 297,612, renewed Sept. 20, 1952. O. G. Sept. 16. Class 16.

Jordan Marsh Company, Boston, Mass. Men's suits and outer shirts. 564,019, Sept. 16; Serial No. 577,487, published June 3, 1952. Class 39.

Kayser, Julius, & Co., New York, N. Y. Ladies' underwear. 295,593, renewed July 5, 1952. O. G. Sept. 16. Class 39.

Kingston Clothing Co., Boston, Mass. Men's topcoats and overcoats. 564,040, Sept. 16; Serial No. 590,162, published June 17, 1952. Class 39.

Kohnstamm, R. & A. (London), Inc., New York, N. Y. Leather. 564,157, Sept. 16; Serial No. 618,640, published June 17, 1952. Class 1.

Kota Products, Inc.: *See*—
Steel Sash Sales & Service, Inc.

Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Cuff links, tie holders, key chains and shirt studs. 564,033, Sept. 16; Serial No. 586,090, published May 27, 1952. Class 28.

Kroll Brothers Company, Chicago, Ill. Cribs. 564,247, Sept. 16; Serial No. 616,208. Class 32.

La Compagnie Fermiere de l'Etablissement Thermal de Vichy, Societe Anonyme, Paris, France. Natural mineral waters. 86,208–09, re-renewed Apr. 23, 1952. O. G. Sept. 16. Class 45.

La Compagnie Fermiere de l'Etablissement Thermal de Vichy, Societe Anonyme, Paris, France. Natural mineral waters. 86,576, re-renewed May 21, 1952. O. G. Sept. 16. Class 45.

Lakeside Laboratories, Inc., Milwaukee, Wis. Tablet medication. 564,162, Sept. 16; Serial No. 619,392, published May 20, 1952. Class 18.

Lakeside Laboratories, Inc., Milwaukee, Wis. Capsule medication. 564,163, Sept. 16; Serial No. 619,394, published May 20, 1952. Class 18.

Lamar & Whitmore, Book Agents, Publishing House, Methodist Episcopal Church, South, doing business as The Parthenon Press, to Book Agents of the Methodist Episcopal Church, South, Nashville, Tenn. Periodical publications and publications issued from time to time. 293,047, renewed Apr. 5, 1952. O. G. Sept. 16. Class 38.

Lambert Company, The: *See*—
Florence Manufacturing Company.

Lawson Cordial Co., Newtown, Conn. File card boxes. 564,041, Sept. 16; Serial No. 590,374, published July 1, 1952. Class 32.

Leipold, Eugene, Milwaukee, Wis. Concrete aggregate blocks. 564,039, Sept. 16; Serial No. 589,857, published Nov. 27, 1951. Class 12.

Leonard's Hardware: *See*—
Sherman, Leonard.

Lily Mills Company, Shelby, N. C. Cotton yarn, crochet and knitting yarn, etc. 564,183, Sept. 16; Serial No. 621,153, published June 24, 1952. Class 43.

Lindemann, A. J., & Hoverson Company, The, Milwaukee, Wis. Oil burning cook stoves and ranges, heaters, etc. 100,714, Oct. 20, 1914. Republished Sept. 16. Class 34.

Lindemann, A. J., & Hoverson Company, The, Milwaukee, Wis. Electric stoves, heaters, sadirons, etc. 171,019, July 31, 1923. Republished Sept. 16. Class 21.

Lindemann, A. J., & Hoverson Company, The, Milwaukee, Wis. Gas and oil cooking and heating stoves, ranges and ovens. 404,667, Dec. 14, 1943. Republished Sept. 16. Class 34.

Lindemann, A. J., & Hoverson Company, The, Milwaukee, Wis. Electric stoves and ranges and electric ovens. 430,373, June 10, 1947. Republished Sept. 16. Class 21.

Luce Manufacturing Co.: *See*—
Luce Manufacturing Company.

Luce Manufacturing Company, Groton, Vt. assignee of R. W. Luce, doing business as Luce Manufacturing Co. Glass salt and pepper shaker sets. 564,007, Sept. 16; Serial No. 564,728, published May 20, 1952. Class 33.

Luce, Richard W.: *See*—
Luce Manufacturing Company.

Lyons, Mary H.: *See*—
Metcalf, Theodore, Co.

Mack, Andrew, & Son: *See*—
Mack, G. S.

Mack, G. S., doing business as Andrew Mack & Son, Jonesville, Mich. Artists' brushes. 564,246, Sept. 16; Serial No. 616,042. Class 29.

Magnethermic Corporation, Youngstown, Ohio. Low frequency induction furnaces. 564,166, Sept. 16; Serial No. 620,106, published June 10, 1952. Class 21.

Magnuson Products Corporation, New York, to Magnuson Products Corporation, Brooklyn, N. Y. Soaps. 296,893, renewed Aug. 23, 1952. O. G. Sept. 16. Class 52.

Malhame Sewing Company, Milford, Pa. Articles of religious clothing. 564,143, Sept. 16; Serial No. 617,449, published June 24, 1952. Class 39.

Mannington Mills, Incorporated, Salem, N. J. Plastic finish, felt base floor covering. 564,090, Sept. 16; Serial No. 610,287, published July 1, 1952. Class 20.

Marlan Company, The, Philadelphia, Pa. Boys' and youths' sport and dress shirts and pajamas. 563,994–5, Sept. 16; Serial Nos. 545,502–3, published June 17, 1952. Class 39.

Marsha Kay Originals, Edinburg, Tex. Children's dresses. 564,112, Sept. 16; Serial No. 613,074, published June 24, 1952. Class 39.

Mayers & Schiller, Inc., to Schiller Bros., Inc., New York, N. Y. Ladies' undergarments. 298,741, renewed Nov. 1, 1952. O. G. Sept. 16. Class 39.

McBee Company, The, Athens, Ohio. Wood or steel office furniture. 563,993, Sept. 16; Serial No. 543,634, published July 1, 1952. Class 32.

McCourry, T. C.: *See*—
Heard & McCourry.

McDonald, Mary E., Columbus, Ohio. Mariaceous material. 564,155, Sept. 16; Serial No. 618,360, published June 17, 1952. Class 1.

McKesson Appliance Co.: *See*—
McKesson, Martha F.

McKesson, Martha F., doing business as McKesson Appliance Co., Toledo, Ohio. Respiration-testing and gas-administration apparatus and parts thereof. 564,104, Sept. 16; Serial No. 612,052, published June 3, 1952. Class 44.

Meat Industry Suppliers, Inc., Chicago, Ill. Preparation consisting of a specially processed oat product. 564,240, Sept. 16; Serial No. 608 827. Class 46.

Metcalf, Theodore, Co., Boston, Mass., to M. H. Lyons, Jackson, Miss. Powder for treating athlete's foot and for deodorizing, etc. 291,410, renewed Feb. 9, 1952. O. G. Sept. 16. Class 51.

Metroloy Corporation, assignor, by mesne assignments, to Metroloy Corporation, New Rochelle, N. Y. Pinking shears. 564,038, Sept. 16; Serial No. 589,325, published May 13, 1952. Class 23.

Meyercord Co., The, Chicago, Ill. Decalcomanias. 564,139, Sept. 16; Serial No. 617,153, published June 10, 1952. Class 38.

Miglo Jewelry Co., Inc., New York, N. Y. Identification bracelets and necklaces. 564,014, Sept. 16; Serial No. 569,878, published May 27, 1952. Class 28.

Millbrook Products Co., to First National Stores Inc., Somerville, Mass. Nonalcoholic maltless beverages. 298,418, renewed Oct. 25, 1952. O. G. Sept. 16. Class 45.

Miller Brothers Company, Johnson City, Tenn. Wood flooring and millwork. 564,018, Sept. 16; Serial No. 574,634, published June 17, 1952. Class 12.

Minnesota Linseed Oil Paint Co., to Minnesota Paints, Inc., Minneapolis, Minn. Paint, paint enamel, and oil stain. 293,471, renewed Apr. 26, 1952. O. G. Sept. 16. Class 16.

Minnesota Paints, Inc.: *See*—
Minnesota Linseed Oil Paint Co.

Miracle Bait Co., The: *See*—
Stovall, Aubrey M.

Monticello Drug Company, Jacksonville, Fla. Remedies for chills and fever, colds, la grippe, etc. 88,916, renewed Oct. 29, 1952. O. G. Sept. 16. Class 18.

Moore, Jim, Mink Ranch, Peshtigo, Wis. Mink pelts and live minks. 564,135, Sept. 16; Serial No. 616,860, published June 17, 1952. Class 1.

Morton, Peter, Leisurewear, Inc., New York, N. Y. Men's coats, suits, and overcoats. 564,042, Sept. 16; Serial No. 590,752, published June 17, 1952. Class 39.

Multistamp Company, Inc., The, Norfolk, Va. Stencil hand stamps, and stencil hand stamping outfits. 564,228, Sept. 16; Serial No. 588,876. Class 23.

Nakasheff, P.: *See*—
Nakasheff, Pancho.

Nakasheff, Pancho, doing business as Pantcho Nakasheff, P. Nakasheff, and Pharmacy P. Nakasheff, Round Hill Farm, R. F. D. 2, Monroe, N. Y. Medicinal preparation. 563,998, Sept. 16; Serial No. 554,917, published Sept. 13, 1949. Class 18.

Nakasheff, Pantcho: *See*—
Nakasheff, Pancho.

Nakasheff, Pharmacy P.: *See*—
Nakasheff, Pancho.

National Electric Products Corporation, Pittsburgh, Pa. Thin-walled rigid metallic conduit. 564,113, Sept. 16; Serial No. 613,721, published June 24, 1952. Class 21.

National Electric Products Corporation, Pittsburgh, Pa. Bushings used for armored electric conductors or cables. 564,114, Sept. 16; Serial No. 613,724, published June 24, 1952. Class 21.

National Electric Products Corporation, Pittsburgh, Pa. Wires and cables. 564,115, Sept. 16; Serial No. 613,726, published June 24, 1952. Class 21.

National Mallinson Fabrics Corporation, New York, N. Y., assignor to Burlington Mills Corporation, Greensboro, N. C. Fabrics in the piece. 564,213, Sept. 16; Serial No. 625,432, published June 24, 1952. Class 42.

National Musical String Co., New Brunswick, N. J. Strings for violins, violas, violoncellos, etc. 564,054, Sept. 16; Serial No. 597,286, published July 1, 1952. Class 36.

National Shirt Shops of Delaware, Inc., New York, N. Y. Men's wearing apparel, sportswear, and haberdashery. 564,046, Sept. 16; Serial No. 592,923, published June 17, 1952. Class 39.

NEA Service, Inc., Cleveland, Ohio. Comic strip. 291,316, renewed Feb. 9, 1952. O. G. Sept. 16. Class 38.

Newark Slip Contracting Co., Inc., also doing business under the trade name of Cadence Lingerie Co., Newark, N. J. Women's apparel. 564,197, Sept. 16; Serial No. 622,674, published June 24, 1952. Class 39.

New York Association for the Blind, Inc., The, New York, N. Y. Mops. 564,070, Sept. 16; Serial No. 606,041, published May 13, 1952. Class 29.

Niles-Bement-Pond Company: *See*—
Pratt & Whitney Company.

Northern Adhesives, Inc., Brooklyn, N. Y. Synthetic liquid wood glue. 564,094, Sept. 16; Serial No. 610,862, published June 17, 1952. Class 5.

Northern Metal Products Company, Chicago, Ill. Fabrication of ferrous and non-ferrous metal products. 564,221, Sept. 16; Serial No. 609,412, published June 24, 1952. Class 106.

Nu-Way Shoe Co. Inc., New York, N. Y. Women's and children's shoes. 357,397, June 7, 1938. Canceled May 29, 1952. O. G. Sept. 16. Class 39.

Odor-Nox Laboratories, Inc., Ltd., Los Angeles, Calif. Fungicide, germicide, and antiseptic. 323,446, Apr. 16, 1935. Canceled June 18, 1952. O. G. Sept. 16. Class 6.

O'Hara, Janvier F., Monrovia, Calif. Hearing aid accessory. 564,071, Sept. 16; Serial No. 606,316, published May 27, 1952. Class 44.

O'Leary, Lydia, Inc., New York, N. Y. Cosmetic. 564,170, Sept. 16; Serial No. 620,360, published May 20, 1952. Class 51.

Olive Oil Industry, Inc., New York, N. Y. Olive oil and canned tomatoes. 564,028, Sept. 16; Serial No. 583,169, published June 17, 1952. Class 46.

One Hour Valet, Inc., Jacksonville, Fla. Laundry and dry cleaning. 564,222, Sept. 16; Serial No. 612,469, published June 24, 1952. Class 103.

Oneida Ltd., Oneida and Sherrill, N. Y. Sterling silver flat tableware. 564,009, Sept. 16; Serial No. 566,470, published May 20, 1952. Class 28.

Oshkosh B'Gosh, Inc., Oshkosh, Wis. Overalls, work shirts, coats, jackets, etc. 564,002, Sept. 16; Serial No. 558,919, published June 17, 1952. Class 39.

Oshkosh B'Gosh, Inc., Oshkosh, Wis. Overalls, work shirts, coats, jackets, etc. 564,003, Sept. 16; Serial No. 558,921, published June 17, 1952. Class 39.

Paidar, Emil J., Company, Chicago, Ill. Barber shop and beauty shop equipment. 564,037, Sept. 16; Serial No. 588,592, published July 1, 1952. Class 32.

Parke, Davis & Company, Detroit, Mich. Local anesthetic. 322,990, Mar. 26, 1935. Canceled July 23, 1952. O. G. Sept. 16. Class 6.

Parke, Davis & Company, Detroit, Mich. Surgical adhesive plaster. 564,121, Sept. 16; Serial No. 614,713, published June 17, 1952. Class 44.

Parker Rust Proof Company, Detroit, Mich. Phosphoric acid and phosphate compounds. 298,605, renewed Nov. 1, 1952. O. G. Sept. 16. Class 52.

Parthenon Press, The: *See*—
Lamar & Whitmore, Book Agents, Publishing House, Methodist Episcopal Church, South.

Patek Brothers, Inc., Milwaukee, Wis. Paint. 563,986, Sept. 16; Serial No. 531,824, published June 24, 1952. Class 16.

Patterson-Sergent Company, The, Cleveland, Ohio. Dry and ready mixed paints, paint enamels, stains, etc. 296,588; renewed Aug. 16, 1952. O. G. Sept. 16. Class 16.

Pearce, Louis H., Buffalo, to Hinze Ambrosia, Inc., New York, N. Y. Toilet waters and perfumes. 39,193, renewed Nov. 4, 1952. O. G. Sept. 16. Class 51.

Peerless Steel Equipment Company, Philadelphia, Pa. Steel office furniture. 564,187, Sept. 16; Serial No. 621,574, published June 24, 1952. Class 32.

Pennsylvania Grocers Association, Philadelphia, Pa. Advertising, promoting, extending, and maintaining distribution of products of subscribing manufacturers. 564,216, Sept. 16; Serial No. 576,980, published June 24, 1952. Class 101.

Pennsylvania Refining Company, Butler, Pa. Solvent preparation. 564,053, Sept. 16; Serial No. 596,358, published June 17, 1952. Class 52.

Perma-Chrome Company: *See*—
Fish, Eugene.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc. Antibiotic preparation. 564,057, Sept. 16; Serial No. 599,581, published May 27, 1952. Class 18.

Pieri, J. G., Company: *See*—
Pieri, John J.

Pieri, John J., executor of the estate of Joseph G. Pieri, deceased, doing business as J. G. Pieri Company, Buffalo, N. Y. Canned vegetables. 564,023, Sept. 16; Serial No. 579,068, published June 17, 1952. Class 46.

Pieri, Joseph G.: *See*—
Pieri, John J.

Pilgrim Sports & Work Apparel Manufacturers, Inc., New York, N. Y. Men's and boys' jackets, sports jackets, coats, etc. 564,055, Sept. 16; Serial No. 597,412, pulished June 17, 1952. Class 39.

Pincus Brothers, Inc., Philadelphia, Pa. Suits, coats, vests, pants, etc. 417,040, Oct. 9, 1945. Canceled Aug. 8, 1952. O. G. Sept. 16. Class 39.

Pioneer Rubber Company, The, Willard, Ohio. Children's gloves and mittens. 564,158, Sept. 16; Serial No. 618,758, published June 24, 1952. Class 39.

Plastergon Wall Board Company, Buffalo, N. Y. Thermal and sound insulating wall board. 296,535–6, renewed Aug. 9, 1952. O. G. Sept. 16. Class 12.

Plastikon-Western, Inc., San Francisco, Calif. Liquid plastic surface sealer. 563,996, Sept. 16; Serial No. 553,014, published June 24, 1952. Class 16.

Pond's Extract Company, New York, N. Y. Paper handkerchiefs. 298,472, renewed Oct. 25, 1952. O. G. Sept. 16. Class 37.

Powers, John Robert, Products Co., Inc., Wilmington, Del., and New York, N. Y. Colognes. 564,176, Sept. 16; Serial No. 620,552, published June 17, 1952. Class 51.

Pratt & Whitney Company, Hartford, to Niles-Bement-Pond Company, West Hartford, Conn. Dimensional gages. 295,015, renewed June 14, 1952. O. G. Sept. 16. Class 26.

Precision Devices, Inc., New York, N. Y. Bolt anchors. 564,184, Sept. 16; Serial No. 621,285, published June 24, 1952. Class 13.

Princesse Titania, Inc., New York, N. Y. Perfume, toilet water and cologne. 564,111, Sept. 16; Serial No. 613,023, published June 17, 1952. Class 51.

Printz-Biederman Company, The, Cleveland, Ohio. Women's coats. 376,050, Mar. 12, 1940. Canceled Aug. 8, 1952. O. G. Sept. 16. Class 39.

Procter & Gamble Company, assignee: *See*—
Takara Laboratories Corporation.

Productos Marpe: *See*—
De Degetau, Maria Pons Nicoux.

Purity Bakeries Corporation: *See*—
Grennan Bakeries, Inc.

RCA Victor Company, Inc., Camden, N. J., to Radio Corporation of America, New York, N. Y. Radio receiving sets, television receiving sets, kits for radio receiving sets, etc. 298,004, renewed Oct. 11, 1952. O. G. Sept. 16. Class 21.

RCA Victor Company, Inc., Camden, N. J., to Radio Corporation of America, New York, N. Y. Publications. 294,364, renewed May 24, 1952. O. G. Sept. 16. Class 38.

Radio Corporation of America: *See*—
RCA Victor Company, Inc.

Rapidol Distributing Corporation, New Hyde Park, N. Y. Skin lotion, vanishing skin-lotion, powder base, etc. 564,109, Sept. 16; Serial No. 612,626, published May 20, 1952. Class 51.

Reeves, B. M., Company, Inc., Brooklyn, N. Y. Bottled olives, bottled cherries, and package dates. 297,264, renewed Sept. 6, 1952. O. G. Sept. 16. Class 46.

Reeves Soundcraft Corp., New York, N. Y. Magnetic sound recording film. 564,084, Sept. 16; Serial No. 609,317, published June 17, 1952. Class 21.

Regal Ware, Inc., Kewaskum, Wis. Chicken fryers, dutch ovens, sauce pans, etc. 564,194, Sept. 16; Serial No. 622,173, published July 1, 1952. Class 13.

Regal Ware, Inc., Kewaskum, Wis. Metal cooking utensils. 564,195, Sept. 16; Serial No. 622,174, published July 1, 1952. Class 13.

Revlon Products Corporation, New York, N. Y. Nail enamel and lipstick. 564,129–30, Sept. 16; Serial No. 616,048–9, published May 20, 1952. Class 51.

Richie, Robert Yarnall, Productions, Inc., New York, N. Y. Preparation of scripts and production of moving pictures therefrom. 564,215, Sept. 16; Serial No. 564,289, published June 24, 1952. Class 107.

Ritter Company, Inc., Rochester, N. Y. Electric water heaters and transformers. 564,161, Sept. 16; Serial No. 619,362, published June 24, 1952. Class 21.

Roberts, Charles D., Company, Greensboro, N. C. Hickory, ash, dogwood, and persimmon tool handles. 564,063, Sept. 16; Serial No. 602,914, published May 13, 1952. Class 23.

Roberts Co., The, Los Angeles, Calif. Carpet anchoring device. 564,051, Sept. 16; Serial No. 595,094, published June 24, 1952. Class 13.

Robinson Aviation, Inc., Teterboro, N. J. Shock and vibration absorbing mounts. 564,160, Sept. 16; Serial No. 619,260, published Apr. 29, 1952. Class 23.

Rockwell Manufacturing Company, Pittsburgh, Pa. Sanding kits. 564,099, Sept. 16; Serial No. 611,535, published June 17, 1952. Class 4.

Roe, Wm. G., & Company, Inc., to Wm. G. Roe & Sons, Winter Haven, Fla. Fresh citrus fruits. 294,860, renewed June 7, 1952. O. G. Sept. 16. Class 46.

Roe, Wm. G., & Sons: *See*—
Roe, Wm. G., & Company, Inc.

Ronci, F., Co., Inc., Centerdale, R. I. Jewelry. 564,058, Sept. 16; Serial No. 601,120, published May 27, 1952. Class 28.

Ronley Floating Blanket Co., New York, N. Y. Baby's crib cover. 564,199, Sept. 16; Serial No. 623,316, published June 24, 1952. Class 42.

Roosevelt Savings Bank of the City of New York, Brooklyn, N. Y. Toy portable savings bank. 564,131, Sept. 16; Serial No. 616,387, published June 24, 1952. Class 32.

Roselawn Poultry Farm, Madison Township, Montgomery County, Ohio. Live poultry and hatching eggs. 564,154, Sept. 16; Serial No. 618,304, published June 3, 1952. Class 1.

Roto-Finish Company, Kalamazoo, Mich. Aggregates for polishing purposes. 564,144, Sept. 16; Serial No. 617,512, published June 17, 1952. Class 4.

Royal Imperial Products Corp., New York, N. Y. Hair restorer. 564,128, Sept. 16; Serial No. 615,794, published May 20, 1952. Class 51.

Ruxton, Philip, Inc., to Interchemical Corporation, New York, N. Y. Printing-inks. 88,704, re-renewed Oct. 15, 1952. O. G. Sept. 16. Class. 11.

Sachs Quality Stores, Inc., New York, N. Y. Bedroom furniture; living room furniture; dining room furniture; etc. 564,100, Sept. 16; Serial No. 611,659, published July 1, 1952. Class 32.

Sagner's, A., Son: *See*—
Sagner, A., & Sons, Inc.

Sagner, A., & Sons, Inc., by A. Sagner's Son, Baltimore, Md. Men's suits, pants, and overcoats. 367,398, May 16, 1939. Republished Sept. 16. Class 39.

Sahlein, J. M., Music Co.: *See*—
Sahlein, Jules M.

Sahlein, Jules M., trading as J. M. Sahlein Music Co., San Francisco, Calif. Clarinets, oboes, bassoons, etc. 564,043, Sept. 16; Serial No. 591,957, published July 1, 1952. Class 36.

St. Regis Paper Company, New York, N. Y. Paper bags. 564,225, Sept. 16. Serial No. 533,636. Class 2.

Salem-Brosius, Inc.: *See*—
Brosius, Edgar E., Company Inc.

Salvato, Charles, & Co., Brooklyn, N. Y. Men's naval uniforms. 564,145, Sept. 16; Serial No. 617,556, published June 24, 1952. Class 39.

San Juan Fishing & Packing Co.: *See*—
Alaska Fish Co.

Sandoz Chemical Works, Inc., New York, N. Y. Dyestuff auxiliary. 564,245, Sept. 16. Serial No. 615,856. Class 6.

Schiller Bros., Inc.: *See*—
Mayers & Schiller, Inc.

Schneierson, I., & Sons, Inc.: *See*—
Shuwall, Edward, & Co. Inc.

Schranck, H. C., Company, Milwaukee, Wis. Toppings for ice cream sundaes and sodas canned foods, etc. 564,022, Sept. 16; Serial No. 578,638, published June 17, 1952. Class 46.

Schnéller, Eugène, Paris, France. Shampoos. 564,120, Sept. 16; Serial No. 614,516, published June 17, 1952. Class 52.

Sears, Roebuck and Co., Chicago, Ill. Office furniture. 564,193, Sept. 16; Serial No. 622,040, published July 1, 1952. Class 32.

Selmer, H. & A., Incorporated, Elkhart, Ind. Clarinets, trumpets, cornets, etc. 563,992, Sept. 16; Serial No. 543,227, published July 1, 1952. Class 36.

Semmes Bag Company, Inc., Memphis, Tenn. Woven fiber bags and sacks. 564,239, Sept. 16; Serial No. 606,984. Class 2.

Sheetz, Ellie, Candies Company, assignee: *See*—
Washington, Martha, Candies Company.

Sherman, Leonard, trading under the name Leonard's Hardware, Philadelphia, Pa. Television receiving sets and parts thereof. 564,082, Sept. 16; Serial No. 585,955, published June 24, 1952. Class 21.

Shirley Fabrics Corp., New York, N. Y. Textile fabrics in the piece. 564,211, Sept. 16; Serial No. 625,299, published June 24, 1952. Class 42.

Shirley Fabrics Corp., New York, N. Y. Textile fabrics in the piece. 564,212, Sept. 16; Serial No. 625,371, published June 24, 1952. Class 42.

Shirma Boyswear Mfg. Co., Inc., Mount Vernon, N. Y. Boys' clothing. 564,202, Sept. 16; Serial No. 624,307, published June 24, 1952. Class 39.

Shuwall, Edward, & Co. Inc., Pottstown, Pa., by I. Schneierson & Sons, Inc., New York, N. Y. Children's wash frocks. 313,830, June 12, 1934. Republished Sept. 16. Class 39.

Sigma Chi Fraternity, Evanston, Ill. Stimulation and maintenance of interest in college and fraternal affairs. 564,224, Sept. 16; Serial No. 596,528, published June 24, 1952. Class 100.

Simmons, R. F., Company: *See*—
Clap, Harvey, & Company.

Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa. Hard surface floor covering. 564,177, Sept. 16; Serial No. 620,555, published June 24, 1952. Class 20.

Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa. Hard surface floor covering. 564,178, Sept. 16; Serial No. 620,557, published June 24, 1952. Class 20.

Societe a Responsabilite Limitee Dite: Marquay, Paris, France. 564,175, Sept. 16; Serial No. 620,531, published May 20, 1952. Class 51.

Societe Anonyme L'Auvergne Laitiere, Aurillac, France. Cheese. 294,758, renewed July 7, 1952. O. G. Sept. 16. Class 46.

Societe des Accumulateurs Fixes & de Traction (Société Anonyme), Romainville, Seine, France. Primary and secondary batteries. 564,086, Sept. 16; Serial No. 610,106, published June 24, 1952. Class 21.

Society of Chemical Industry in Basle, to Ciba Limited, Basel, Switzerland. Coal tar colors. 88,377, re-renewed Sept. 10, 1952. O. G. Sept. 16. Class 6.

Society of Chemical Industry in Basle, to Ciba Limited, Basel, Switzerland. Chemical products. 295,730, renewed July 12, 1952. O. G. Sept. 16. Class 52.

South Coast Fisheries, Inc., Terminal Island, Calif. Canned mackerel, canned bonito, and canned yellowtail. 564,006, Sept. 16; Serial No. 563,138, published May 27, 1952. Class 46.

South River Sand Company Old Bridge, N. J. Abrasive and polishing sands. 564,243, Sept. 16; Serial No. 610,383. Class 4.

Southern States Cooperative, Incorporated, Richmond, Va. Metal roofing. 564,234, Sept. 16; Serial No. 597,235. Class 12.

Southland Coffee Company, Macon, to Southland Coffee Company, Atlanta, Ga. Coffee. 297,254, renewed Sept. 6, 1952. O. G. Sept. 16. Class 46.

Sovereign Plan, Inc., The, Chicago, Ill. Services in connection with the promotion and sale of automobile service bonds. 564,218–9, Sept. 16; Serial Nos. 587,828–9, published June 24, 1952. Class 101.

Specialty Battery Company, Madison, Wis. Dry cells, dry cell batteries, and battery pack. 564,081, Sept. 16; Serial No. 609,106, published July 1, 1952. Class 21.

Spiral Fastener Corporation, Stamford, Conn. Spiral fasteners. 564,107, Sept. 16; Serial No. 612,420, published June 24, 1952. Class 13.

Standard Brands Incorporated, New York, N. Y. Coffee. 298,683, renewed Nov. 1, 1952. O. G. Sept. 16. Class 46.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, New York, N. Y. Grease compound. 293,929, renewed May 10, 1952. O. G. Sept. 16. Class 15.

Standard Oil Company of New Jersey, Wilmington, Del., to Esso Standard Oil Company, New York, N. Y. Refined, semirefined and unrefined oils. 294,520, renewed May 31, 1952. O. G. Sept. 16. Class 15.

Standardised Products Company, Chicago, Ill. Cabinets and structural cabinet parts. 564,011, Sept. 16; Serial No. 567,889, published June 24, 1952. Class 32.

Stardust, Incorporated, Poughkeepsie and New York, N. Y. Slips, girdles, garter belts, and baby pants. 564,132, Sept. 16; Serial No. 616,517, published June 24, 1952. Class 39.

Starr-Allen Professional Studios, New York, N. Y. Rendering entertainment service. 564,223, Sept. 16; Serial No. 613,028, published June 24, 1952. Class 107.

Steel Sash Sales & Service, Inc., Weehawken, N. J., now by change of name Kota Products, Inc. Combination screen and storm windows, combination screen and storm doors, etc. 564,097, Sept. 16; Serial No. 611,199, published June 17, 1952. Class 12.

Stiebel, Theodor, Holzminden (Weser), Germany. Electrical apparatus. 564,069, Sept. 16; Serial No. 604,507, published June 24, 1952. Class 21.

Stovall, Aubrey M., doing business as The Miracle Bait Co., Dallas, Tex. Fish bait. 564,103, Sept. 16; Serial No. 611,932, published June 24, 1952. Class 22.

Suit Shop, The, Washington, D. C. Men's suits and topcoats. 564,048, Sept. 16; Serial No. 594,593, published June 17, 1952. Class 39.

Suter, F., & Co., Bienne, Switzerland. Watches and parts of watches. 564,229, Sept. 16; Serial No. 589,534. Class 27.

Swansdown Sanitary Garment Company, Incorporated, Detroit, Mich. Sanitary napkins and sanitary belts or supporters. 564,073, Sept. 16; Serial No. 606,735, published June 3, 1952. Class 44.

Takara Laboratories: *See*—
Takara Laboratories Corporation.

Takara Laboratories Corporation, trading as Takara Laboratories, Hollywood, Calif., assignor to Procter & Gamble Company, Cincinnati, Ohio. Hair oil and tonic. 564,105, Sept. 16; Serial No. 612,281, published June 17, 1952. Class 51.

Talon, Inc., Meadville, Pa. Character dolls. 564,188, Sept. 16; Serial No. 621,734, published July 1, 1952. Class 22.

Taylor, John W., Packing Company, Inc., Hallwood, Va. Canned vegetables. 563,987, Sept. 16; Serial No. 534,693, published June 24, 1952. Class 46.

Teakwood, Inc., by Bunte Brothers, Chicago, Ill. Candy. 289,787, Dec. 8, 1931. Republished Sept. 16, 1952. Class 46.

Tele-Tray Corporation, Cleveland, Ohio. Cradle telephone accessory. 564,024, Sept. 16; Serial No. 579,951, published June 24, 1952. Class 21.

Theller, H. J., Corporation, Whitinsville, Mass. Textile equipment. 564,052, Sept. 16; Serial No. 595,521, published May 13, 1952. Class 23.

Tops Music Enterprises, assignee: *See*—
Tops Recording Company, Inc.

Tops Recording Company, Inc., Los Angeles, Calif., assignor to Tops Music Enterprises. Grooved phonograph records. 564,077, Sept. 16; Serial No. 608,440, published July 1, 1952. Class 36.

Trago Manufacturing Co. Inc., New York, N. Y. Sanitary panties. 564,167, Sept. 16; Serial No. 620,177, published June 17, 1952. Class 44.

Trenton Shirt Manufacturing Co., Trenton, N. J. Work shirts, flannel shirts, sport shirts, etc. 564,108, Sept. 16; Serial No. 612,424, published June 24, 1952. Class 39.

U. M. A. Inc., New York, N. Y. Aeroporotomy type of apparatus. 564,036, Sept. 16; Serial No. 587,570, published June 17, 1952. Class 44.

United Engineers & Constructors Inc., Philadelphia, Pa. Shaft driven machines. 563,999, Sept. 16; Serial No. 535,030, published May 20, 1952. Class 23.

United Enterprises, Inc., Chicago, Ill. Stick cologne. 564,179, Sept. 16; Serial No. 620,700, published May 20, 1952. Class 51.

Universal Concrete Pipe Company, Columbus, Ohio. Precast, molded, and reinforced concrete building blocks; and deck, floor, curb and cribbing slabs. 564,078, Sept. 16; Serial No. 608,724, published May 13, 1952. Class 12.

Verney Corporation, Manchester, N. H. Piece goods. 564,087, Sept. 16; Serial No. 610,247, published June 24, 1952. Class 42.

Walker-Turner Co., Inc., Plainfield, N. J., to Home Craftsman Publishing Corporation, New York, N. Y. Bimonthly magazine. 292,898, renewed Mar. 29, 1952. O. G. Sept. 16. Class 38.

Warp Brothers: *See*—
Warp, Harold.

Warp, Harold, doing business as Flex-O-Glass Manufacturing Co. and as Warp Brothers, assignor to Flex-O-Glass, Inc., Chicago, Ill. Reticular mesh metallic material for use as insect screening. 564,238, Sept. 16; Serial No. 601,967. Class 13.

Washington, Martha, Candies Co.: *See*—
Washington, Martha, Candies Company.

Washington, Martha, Candies Company, assignor to Elle Sheetz Candies Company, to Martha Washington Candies Co., Chicago, Ill. Candies. 297,860, renewed Oct. 4, 1952. O. G. Sept. 16. Class 46.

Watts Regulator Co., Lawrence, Mass. Pressure regulator safety devices. 564,008, Sept. 16; Serial No. 565,985, published June 24, 1952. Class 13.

Webster-Chicago Corporation, Chicago, Ill. Sound equipment, accessories thereof, and parts thereof. 564,159, Sept. 16; Serial No. 619,118, published June 10, 1952. Class 21.

Weis, Henry, Manufacturing Company, Elkhart, Ind. Prefabricated metal construction members. 564,015, Sept. 16; Serial No. 571,374, published June 17, 1952. Class 12.

Wernet Dental Mfg. Co., Inc., doing business as Hudson Products, Jersey City, N. J. Mouth wash. 564,248, Sept. 16; Serial No. 616,930. Class 51.

West Disinfecting Company, Long Island City, N. Y. Liquid soap, surgical soap, hand soap, etc. 564,096, Sept. 16; Serial No. 611,161, published June 17, 1952. Class 52.

West Disinfecting Company, Long Island City, N. Y. Electric automatic insecticide sprayer, electric portable hand manipulable insecticide atomizers, etc. 564,101, Sept. 16; Serial No. 611,669, published June 17, 1952. Class 21.

Weston Dodson & Co., Inc., Bethlehem, Pa. Coal. 564,044, Sept. 16; Serial No. 592,401, published June 17, 1952. Class 1.

White-Stokes Company, Inc., Chicago, Ill. Sugar pectin preparation. 293,841, renewed May 10, 1952. O. G. Sept. 16. Class 46.

Whiting-Adams Company, Inc., Boston, Mass. Brushes. 564,067. Sept. 16; Serial No. 603,907, published June 24, 1952. Class 29.

Williams, Thomas G., Tampa, Fla. Musical game. 564,082. Sept. 16; Serial No. 609,268, published June 24, 1952. Class 22.

Wolcott Company, The, Hartford, Conn., assignee of William G. Wolcott, doing business as Wolcott Laboratories. Stove cleaner. 564,241, Sept. 16; Serial No. 609,065. Class 52.

Wolcott Laboratories: *See*—
Wolcott Company, The.

Wolcott, William G.: *See*—
Wolcott Company, The.

Woodworth, C. B., Sons, Co., The, to Bourjois, Inc., New York, N. Y. Perfumes, toilet waters, talcum-powder, etc. 87,580, July 23, 1912. New certificate. O. G. Sept. 16. Class 51 (formerly Class 6).

Wotherspoon, Wm., Ltd., Paisley, Scotland. Adhesive soluble starch, gelatine-glue, glue, etc. 87,510, re-renewed July 16, 1952. O. G. Sept. 16. Class 5.

Wright & McGill Co., Denver, Colo. Fishing rods. 564,185 Sept. 16; Serial No. 621,294, published June 24, 1952. Class 22.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Germicidal dishwashing and glass washing composition. 564,035. Sept. 16; Serial No. 587,414, published Aug. 14, 1951. Class 52.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Casein. Friesche Coöperatieve Zuival-Export-Vereeniging. 361,433. Oct. 18, 1938. Republished Sept. 16.

Coal. Weston Dodson & Co., Inc. 564,044, Sept. 16; Serial No. 592,401, published June 17, 1952.

Fiber, Synthetic. American Cyanamid Company. 564,182, Sept. 16; Serial No. 621,117, published May 27, 1952.

Lawn seed mixtures. Garden State Seed Co., Inc. 564,173–4. Sept. 16; Serial No. 620,464–5, published June 17, 1952.

Leather. R. & A. Kohnstamm (London) Inc. 564,157, Sept. 16; Serial No. 618,640, published June 17, 1952.

Live poultry and hatching eggs. Roselawn Poultry Farm. 564,154, Sept. 16; Serial No. 618,304, published June 3, 1952.

Logs. The Robert Dollar Co. 564,180, Sept. 16; Serial No. 620,724, published June 17, 1952.

Mariaceous material. M. E. McDonald. 564,155, Sept. 16; Serial No. 618,360, published June 17, 1952.

Mink pelts and live minks. Jim Moore Mink Ranch. 564,135, Sept. 16; Serial No. 616,860, published June 17, 1952.

Modeling clay. American Art Clay Company. 564,088, Sept. 16; Serial No. 610,251, published June 10, 1952.

Rubber, Synthetic. American Monomer Corporation. 564,165. Sept. 16; Serial No. 619,961, published June 17, 1952.

Sheet plastic, resinous, translucent material. Coffey-Hoyt Products, Inc. 564,026. Sept. 16; Serial No. 582,126, published May 20, 1952.

CLASS 2

Bags and sacks, Woven fiber. Semmes Bag Company, Inc. 564,239. Sept. 16; Serial No. 606,984.

Bags, Paper. St. Regis Paper Company. 564,225, Sept. 16; Serial No. 533,636.

Small, portable thermally insulated metal chests. Heard & McCourry. 532,035, Oct. 17, 1950. New certificate. O. G. Sept. 16.

CLASS 3

Animal training paddles. Anspat Co. 564,066, Sept. 16; Serial No. 603,428, published June 25, 1952.

Handbags, pocketbooks, portfolios, etc. Boyle Leather Goods Co., Inc. 564,092, Sept. 16; Serial No. 610,736, published June 24, 1952.

Shoulder bags, handbags, club bags, etc., Ladies'. Bloom Bros. Bag Co. 564,138, Sept. 16; Serial No. 617,140, published June 24, 1952.

Suitcases, overnight cases, pullman cases, etc. Firman Leather Goods Corp. 564,068, Sept. 16; Serial No. 603,919, published June 24, 1952.

Trunks, suit cases, wardrobe cases, etc. Arthur Gilmore, Inc. 564,017, Sept. 16; Serial No. 574,579, published June 24, 1952.

CLASS 4

Abrasive and polishing sands. South River Sand Company. 564,243, Sept. 16; Serial No. 610,383.

Aggregates for polishing purposes. Roto-Finish Company. 564,144, Sept. 16; Serial No. 617,512, published June 17, 1952.

Polish, Chrome. E. Fish. 564,085, Sept. 16; Serial No. 609,640, published June 17, 1952.

Polishes, Car, polishes for painted and enameled surfaces, etc. Imperial Chemical Industries Limited. 564,049, Sept. 16; Serial No. 594,776, published June 17, 1952.

Polishing buffs, Industrial. Hanson-Van Winkle-Munning Company. 564,232, Sept. 16; Serial. No. 591,419.

Sanding kits. Rockwell Manufacturing Company. 564,099, Sept. 16; Serial No. 611,535, published June 17, 1952.

CLASS 5

Adhesive soluble starch, gelatine-glue, glue, etc. Wm. Wotherspoon, Ltd. 87,510, re-renewed July 16, 1952. O. G. Sept. 16.

Glue, Synthetic liquid wood. Northern Adhesives, Inc. 564,094, Sept. 16; Serial No. 610,862, published June 17, 1952.

CLASS 6

Anti-freeze. California Chemical Compounds Inc. 564,020, Sept. 16; Serial No. 578,486, published June 17, 1952.

Coal tar colors. Society of Chemical Industry in Basle. 88,377, re-renewed Sept. 10, 1952. O. G. Sept. 16.

Disinfectant. Huntington Laboratories, Inc. 297,469, renewed Sept. 13, 1952. O. G. Sept. 16.

Dyestuff auxiliary. Sandoz Chemical Works, Inc. 564,245, Sept. 16; Serial No. 615,856.

Fungicide, germicide, and antiseptic. Odor-Nox Laboratories, Inc., Ltd. 323,446, Apr. 16, 1935. Canceled June 18, 1952. O. G. Sept. 16.

Local anesthetic. Parke, Davis & Company. 322,990, Mar. 26, 1935. Canceled July 23, 1952. O. G. Sept. 16.

Pharmaceutical preparation. Aktien Gesellschaft Fur Pharmaceutische Produkte. 307,611, Oct. 31, 1933. Canceled June 9, 1952. O. G. Sept. 16.

CLASS 8

Ash-trays, cigarette boxes, and cigarette lighters. Bernad Creations, Ltd. 564,133, Sept. 16; Serial No. 616,620, published June 10, 1952.

Flints. W. d'Alton. 564,134, Sept. 16; Serial No. 616,660, published June 24, 1952.

Pipes, cigarette holders, cigar holders, etc., Smokers'. Federated Supply Corporation. 564,156, Sept. 16; Serial No. 618,492, published June 24, 1952.

CLASS 9

Shotgun powder, Smokeless. E. I. du Pont de Nemours and Company. 298,331, renewed Oct. 25, 1952. O. G. Sept. 16.

CLASS 11

Printing-inks. Philip Ruxton, Inc. 88,704, renewed Oct. 15, 1952. O. G. Sept. 16.

CLASS 12

Building blocks, Precast, molded, and reinforced concrete; and deck, floor, curb and cribbing slabs. Universal Concrete Pipe Company. 564,078, Sept. 16; Serial No. 608,724, published May 13, 1952.

Chrome-magnesite, air-setting, high temperature, bonding mortar. General Refractories Company. 564,098, Sept. 16; Serial No. 611,353, published June 17, 1952.

Combination screen and storm windows, combination screen and storm doors, etc. Steel Sash Sales & Service, Inc. 564,097, Sept. 16; Serial No. 611,199, published June 17, 1952.

Concrete aggregate blocks. E. Leipold. 564,039, Sept. 16; Serial No. 589,857, published Nov. 27, 1951.

Construction members, Prefabricated metal. Henry Weis Manufacturing Company. 564,015, Sept. 16; Serial No. 571,374, published June 17, 1952.

Flooring and millwork, Wood. Miller Brothers Company. 564,018, Sept. 16; Serial No. 574,634, published June 17, 1952.

Forest products. American Lumber & Treating Co. 564,004–5, Sept. 16; Serial Nos. 558,987–8, published June 17, 1952.

Lumber and plywood. Associated Plywood Mills, Inc. 564,029, Sept. 16; Serial No. 584,381, published June 17, 1952.

Metal roofing. Southern States Cooperative, Incorporated. 564,234, Sept. 16; Serial No. 597,235.

Putty, Glazier's, asphalt for roofing, flooring, and driveways, liquid tar, etc. Armstrong Paint & Varnish Works. 564,000, Sept. 16; Serial No. 556,056, published June 17, 1952.

Wall board, Thermal and sound insulating. Plastergon Wall Board Company. 296,535–6, renewed Aug. 9, 1952. O. G. Sept. 16.

CLASS 13

Bolt anchors. Precision Devices, Inc. 564,184, Sept. 16; Serial No. 621,285, published June 24, 1952.

Carpet anchoring device. The Roberts Co. 564,051, Sept. 16; Serial No. 595,094, published June 24, 1952.

Cooking utensils, Metal. Regal Ware, Inc. 564,195, Sept. 16; Serial No. 622,174, published July 1, 1952.

Fryers, Chicken, dutch ovens, sauce pans, etc. Regal Ware, Inc. 564,194, Sept. 16; Serial No. 622,173, published July 1, 1952.

Mixing bowls, fruit bowls, baking sheets, etc., Stainless steel. C C Manufacturing Co. 564,012, Sept. 16; Serial No. 569,079, published July 1, 1952.

Pressure regulator safety devices. Watts Regulator Co. 564,008, Sept. 16; Serial No. 565,985, published June 24, 1952.

Pressure tank fire prevention sprinkler systems. "Automatic" Sprinkler Corporation of America. 564,079, Sept. 16; Serial No. 608,849, published July 1, 1952.

Pressure tank fire prevention sprinkler systems. "Automatic" Sprinkler Corporation of America. 564,080, Sept. 16; Serial No. 608,856, published July 1, 1952.

Reticular mesh metallic material for use as insect screening. H. Warp. 564,238, Sept. 16; Serial No. 601,967.

Sinks and drain boards. Jamestown Metal Products, Inc. 564,251, Sept. 16; Serial No. 626,676.

Sinks, Lavatory. The Globe-Wernicke Co. 564,126, Sept. 16; Serial No. 615,177, published July 1, 1952.

Spiral fasteners. Spiral Fastener Corporation. 564,107, Sept. 16; Serial No. 612,420, published June 24, 1952.

Toilet seats, Children's folding. General American Transportation Corporation. 564,045, Sept. 16; Serial No. 592,900, published June 24, 1952.

Wrought copper and other metal pipe fittings. American Radiator Company. 364,640, Feb. 7, 1939. Canceled June 9, 1952. O. G. Sept. 16.

CLASS 14

Bearing alloys and white metal alloys. Jackson-Wheeler Metals Service, Inc. 321,896, Feb. 19, 1935. Republished Sept. 16.

Bearing alloys, babbitt metals, and white-metal alloys. Jackson-Wheeler Metals Service, Inc. 338,938, Sept. 22, 1936. Republished Sept. 16.

Bearing alloys, babbitt metals, and white metal alloys. Jackson-Wheeler Metals Service, Inc. 361,898, Nov. 1, 1938. Republished Sept. 16.

CLASS 15

Grease compound. Standard Oil Company of New Jersey. 293,929, renewed May 10, 1952. O. G. Sept. 16.

Oil, Motor. Dryer, Clark & Dryer Oil Company. 385,283, Feb. 25, 1941. Republished Sept. 16.

Oils and greases, Motor, auto oils and greases, etc. The American Oil Company. 298,021, renewed Oct. 11, 1952. O. G. Sept. 16.

Oils, Refined, semirefined, and unrefined. Standard Oil Company of New Jersey. 294,520, renewed May 31, 1952. O. G. Sept. 16.

CLASS 16

Lacquers, Ready-mixed, varnishes, paint enamels, etc. Jones-Dabney Company, Inc. 297,612, renewed Sept. 20, 1952. O. G. Sept. 16.

Paint. Patek Brothers, Inc. 563,986, Sept. 16; Serial No. 531,824, published June 24, 1952.

Paint, paint enamel, and oil stain. Minnesota Linseed Oil Paint Co. 293,471, renewed Apr. 26, 1952. O. G. Sept. 16.

Paints. B. F. Davis. 293,736, renewed May 3, 1952. O. G. Sept. 16.

Paints, Dry and ready mixed, Paint enamels, stains, etc. The Patterson-Sargent Company. 296,588, renewed Aug. 16, 1952. O. G. Sept. 16.

Surface sealer, Liquid plastic. Plastikon-Western, Inc. 563,996, Sept. 16; Serial No. 553,014, published June 24, 1952.

CLASS 18

Anesthetic, Local. Harvey Laboratories, Incorporated. 564,119, Sept. 16; Serial No. 614,439, published May 27, 1952.

Antibiotic preparation. Chas. Pfizer & Co., Inc. 564,057, Sept. 16; Serial No. 599,581, published May 27, 1952.

Capsule medication. Lakeside Laboratories, Inc. 564,163, Sept. 16; Serial No. 619,394, published May 20, 1952.

Malt compound containing liver extract, yeast, and vitamins. Boyle & Company. 386,333, Apr. 1, 1941. Republished Sept. 16.

Medicinal preparation. P. Nakasheff. 563,998, Sept. 16; Serial No. 554,917, published Sept. 13, 1949.

Medicinal, veterinary, and pharmaceutical preparations. Aktiebolaget Bofors. 564,074, Sept. 16; Serial No. 606,929, published May 20, 1952.

Ointment. Boyle and Company. 433,238, Sept. 30, 1947. Republished Sept. 16.
Rectal suppositories and ointment. Boyle and Company. 433,234, Sept. 30, 1947. Republished Sept. 16.
Remedies for chills and fever, colds, la grippe, etc. Monticello Drug Company. 88,916, re-renewed Oct. 29, 1952. O. G. Sept. 16.
Tablet medication. Lakeside Laboratories, Inc. 564,162, Sept. 16; Serial No. 619,392, published May 20, 1952.

CLASS 20

Floor and wall coverings, Flexible. Congoleum-Nairn, Inc. 564,190, Sept. 16; Serial No. 621,950, published June 24, 1952.
Floor covering, Felt base. Armstrong Cork Company. 564,186, Sept. 16; Serial No. 621,352, published June 24, 1952.
Floor covering, Hard surface. Sloane-Blabon Corporation. 564,177, Sept. 16; Serial No. 620,555, published June 24, 1952.
Floor covering, Hard surface. Sloane-Blabon Corporation. 564,178, Sept. 16; Serial No. 620,557, published June 24, 1952.
Floor covering, Plastic finish, felt base. Mannington Mills, Incorporated. 564,090, Sept. 16; Serial No. 610,287, published July 1, 1952.

CLASS 21

Air and water cooled television transmitters and components thereof, television cameras, etc. Federal Telephone and Radio Corporation. 564,214, Sept. 16; Serial No. 625,792, published July 1, 1952.
Bushings used for armored electric conductors or cables. National Electric Products Corporation. 564,114, Sept. 16; Serial No. 613,724, published June 24, 1952.
Dry cells, dry cell batteries, and battery pack. Specialty Battery Company. 564,081, Sept. 16; Serial No. 609,106, published July 1, 1952.
Electric automatic insecticide sprayer, electric portable hand manipulable insecticide atomizers, etc. West Disinfecting Company. 564,101, Sept. 16; Serial No. 611,669, published June 17, 1952.
Electric motors, electric engine starters, electric generators, etc. Jack & Heintz Precision Industries, Inc. 564,141, Sept. 16; Serial No. 617,401, published June 24, 1952.
Electric motors, solenoids, radio receivers, etc. Air Associates, Inc. 564,031, Sept. 16; Serial No. 585,734, published June 24, 1952.
Electrical apparatus. T. Stiebel. 564,069, Sept. 16; Serial No. 604,507, published June 24, 1952.
Furnaces, Low frequency induction. Magnethermic Corporation. 564,166, Sept. 16; Serial No. 620,106, published June 10, 1952.
Garbage disposal units, Electric. J. N. Ceazan Company. 564,062, Sept. 16; Serial No. 602,799, published June 17, 1952.
Heating core and shell, Electrical. American Optical Company. 564,065, Sept. 16; Serial No. 603,350, published June 24, 1952.
Lamp starters, Fluorescent. Industrial Starter Corporation. 564,117, Sept. 16; Serial No. 613,875, published June 17, 1952.
Magnetic sound recording film. Reeves Soundcraft Corp. 564,084, Sept. 16; Serial No. 609,317, published June 17, 1952.
Phonograph record players and combination radio-phonograph sets, Electric. Electronic Creations Co. Inc. 564,169, Sept. 16; Serial No. 620,308, published June 24, 1952.
Primary and secondary batteries. Societe des Accumulateurs Fixes & de Traction (Société Anonyme). 564,086, Sept. 16; Serial No. 610,106, published June 24, 1952.
Radio receiving sets, television receiving sets, kits for radio receiving sets, etc. RCA Victor Company, Inc. 298,004, renewed Oct. 11, 1952. O. G. Sept. 16.
Resistors, Flexible. Clarostat Mfg. Co., Inc. 564,191, Sept. 16; Serial No. 622,010, published July 1, 1952.
Resistors, Power. Clarostat Mfg. Co., Inc. 564,192, Sept. 16; Serial No. 622,011, published July 1, 1952.
Sound equipment, accessories thereof, and parts thereof. Webster-Chicago Corporation. 564,159, Sept. 16; Serial No. 619,118, published June 10, 1952.
Stoves and ranges, Electric, and electric ovens. The A. J. Lindemann & Hoverson Company. 430,373, June 10, 1947. Republished Sept. 16.
Stoves, heaters, sadirons, etc., Electric. The A. J. Lindemann & Hoverson Company. 171,019, July 31, 1923. Republished Sept. 16.
Telephone accessory. Cradle. Tele-Tray Corporation. 564,024, Sept. 16; Serial No. 579,951, published June 24, 1952.
Television receiving sets and parts thereof. L. Sherman. 564,032, Sept. 16; Serial No. 585,955 published June 24, 1952.
Thin-wall rigid metallic conduit. National Electric Products Corporation. 564,113, Sept. 16; Serial No. 613,721, published June 24, 1952.
Water heaters and transformers, Electric. Ritter Company, Inc. 564,161, Sept. 16; Serial No. 619,362, published June 24, 1952.
Wires and cables. National Electric Products Corporation. 564,115, Sept. 16; Serial No. 613,726, published June 24, 1952.

CLASS 22

Dolls, Character. Talon, Inc. 564,188, Sept. 16; Serial No. 621,734, published July 1, 1952.
Fish bait. A. M. Stovall. 564,103, Sept. 16; Serial No. 611,932, published June 24, 1952.
Fishing rods. Wright & McGill Co. 564,185, Sept. 16; Serial No. 621,294, published June 24, 1952.
Fishing tackle. J. Gronek. 564,021, Sept. 16; Serial No. 578,593, published July 1, 1952.
Game, Musical. T. G. Williams. 564,082, Sept. 16; Serial No. 609,268, published June 24, 1952.
Playing cards. E-Z Playing Card Co. 564,137, Sept. 16; Serial No. 617,110, published June 24, 1952.
Sporting apparatus. E. P. Foster. 564,060, Sept. 16; Serial No. 601,666, published June 24, 1952.
Toy figure. Four Guys Products, Inc. 564,136, Sept. 16; Serial No. 616,953, published July 1, 1952.
Toy portable savings bank. Roosevelt Savings Bank of the City of New York. 564,131, Sept. 16; Serial No. 616,387, published June 24, 1952.

CLASS 23

Axes, hatchets, adzes, etc. The Collins Company. 89,008, renewed Nov. 5, 1952. O. G. Sept. 16.
Fire extinguishers, Portable. R. E. Dietz Company. 296,686, renewed Aug. 16, 1952. O. G. Sept. 16.
Industrial rolls and reels; water controlling apparatus, water power generating apparatus, etc. Rodney Hunt Machine Co. 564,013, Sept. 16; Serial No. 569,520, published May 13, 1952.
Loom supplies. E. H. Jacobs Manufacturing Co., Inc. 564,001, Sept. 16; Serial No. 558,724, published May 13, 1952.
Saws, Power driven circular. California Saw Works. 563,997, Sept. 16; Serial No. 553,814, published May 20, 1952.
Sealing devices for flight conveyors. Hapman Conveyors, Inc. 564,025, Sept. 16; Serial No. 580,240, published Apr. 29, 1952.
Shaft driven machines. United Engineers & Constructors Inc. 563,999, Sept. 16; Serial No. 555,030, published May 20, 1952.
Shears, Pinking. Metroloy Corporation. 564,038, Sept. 16; Serial No. 589,325, published May 13, 1952.
Shock and vibration absorbing mounts. Robinson Aviation, Inc. 564,160, Sept. 16; Serial No. 619,260, published Apr. 29, 1952.
Sprayers, Hand-operated. H. D. Hudson Manufacturing Company. 564,064, Sept. 16; Serial No. 603,060, published Apr. 29, 1952.
Sprayers, Mechanical power-driven. The Agricultural Supply Company. 443,815, Mar. 7, 1950. Canceled June 9, 1952. O. G. Sept. 16.
Stencil hand stamps, and stencil hand stamping outfits. The Multistamp Company, Inc. 564,228, Sept. 16; Serial No. 588,876.
Stocks and dies, and screw plates. Greenfield Tap and Die Corporation. 564,076, Sept. 16; Serial No. 607,548, published May 13, 1952.
Textile equipment. H. J. Theiler Corporation. 564,052, Sept. 16; Serial No. 595,521, published May 13, 1952.
Tool handles, Hickory, ash, dogwood, and persimmon. Charles D. Roberts Company. 564,063, Sept. 16; Serial No. 602,914, published May 13, 1952.
Transportation systems, Overhead. The Forker Corporation. 564,010, Sept. 16; Serial No. 566,797, published May 27, 1952.
Trucks, Lift. Hyster Company. 564,164, Sept. 16; Serial No. 619,509, published May 6, 1952.
Wrenches. Fairmount Tool & Forging, Inc. 564,151, Sept. 16; Serial No. 617,987, published May 20, 1952.

CLASS 26

Gages, Dimensional. Pratt & Whitney Company. 295,015, renewed June 14, 1952. O. G. Sept. 16, 1952.

CLASS 27

Watches. Bulova Watch Company, Inc. 564,061, Sept. 16; Serial No. 602,797, published May 27, 1952.
Watches and parts of watches. F. Suter & Co. 564,229, Sept. 16; Serial No. 589,534.

CLASS 28

Bracelets and necklaces, Identification. Milgio Jewelry Co., Inc. 564,014, Sept. 16; Serial No. 569,878, published May 27, 1952.
Bracelets and watch bracelets and watch straps. Gemex Company. 564,123–4, Sept. 16; Serial No. 615,057–8, published May 20, 1952.
Bracelets and watch bracelets and watch straps. Gemex Company. 564,125, Sept. 16; Serial No. 615,059, published May 13, 1952.
Cuff links, tie holders, key chains and shirt studs. Jacques Kreisler Manufacturing Corporation. 564,033, Sept. 16; Serial No. 586,090, published May 27, 1952.
Diamonds and diamond rings. Bluebird Diamond Syndicate, Inc. 294,484, renewed May 31, 1952. O. G. Sept. 16.

Jewelry. Delta Jewelry Corporation. 564,016, Sept. 16; Serial No. 572,022, published May 27, 1952.
Jewelry. F. Ronci Co., Inc. 564,058, Sept. 16; Serial No. 601,120, published May 27, 1952.
Jewelry, Metal articles of. Harvey Clap & Company. 297,218, renewed Sept. 6, 1952. O. G. Sept. 16.
Necklaces, bracelets, finger rings, etc. Delma Mfg. Co., Inc. 564,027, Sept. 16; Serial No. 582,470, published May 20, 1952.
Rings, Finger. Fairfax Distributing Co., Inc. 564,083, Sept. 16; Serial No. 609,290, published May 27, 1952.
Rings, Finger. Granat Bros. 563,991, Sept. 16; Serial No. 542,934, published May 27, 1952.
Rings, Finger, brooches, scarf pins, etc. Goodman and Company. 564,148, Sept. 16; Serial No. 617,915, published May 27, 1952.
Sterling silver flat tableware. Oneida Ltd. 564,009, Sept. 16; Serial No. 566,470, published May 20, 1952.

CLASS 29

Brushes. Whiting-Adams Company, Inc. 564,067, Sept. 16; Serial No. 603,907, published June 24, 1952.
Brushes, Artists'. G. S. Mack. 564,246, Sept. 16; Serial No. 616,042.
Hair-brushes, nail-brushes, flesh-brushes, etc. Florence Manufacturing Company. 38,571, re-renewed July 8, 1952. O. G. Sept. 16.
Mops. The New York Association for the Blind, Inc. 564,070, Sept. 16; Serial No. 606,041, published May 13, 1952.

CLASS 31

Filtering units, Tank type liquid. Butler Manufacturing Company. 564,242, Sept. 16; Serial No. 609,330.

CLASS 32

Ash stands. Compco Corporation. 564,050, Sept. 16; Serial No. 594,953, published July 1, 1952.
Barber shop and beauty shop equipment. Emil J. Paidar Company. 564,037, Sept. 16; Serial No. 588,592, published July 1, 1952.
Cabinets and structural cabinet parts. Standardized Products Company. 564,011, Sept. 16; Serial No. 567,889, published June 24, 1952.
Cribs. Kroll Brothers Company. 564,247, Sept. 16; Serial No. 616,208.
Fibre board padding for chair backs and seats, etc. Illinois Fibre Specialty Company. 564,196, Sept. 16; Serial No. 622,439, published July 1, 1952.
File card boxes. Lawson Cordial Co. 564,041, Sept. 16; Serial No. 590,374, published July 1, 1952.
Furniture, Bedroom, living room furniture; dining room furniture; etc. Sachs Quality Stores, Inc. 564,100, Sept. 16; Serial No. 611,659, published July 1, 1952.
Furniture, Office. Sears, Roebuck and Co. 564,193, Sept. 16; Serial No. 622,040, published July 1, 1952.
Furniture, Steel office. Peerless Steel Equipment Company. 564,187, Sept. 16; Serial No. 621,574, published June 24, 1952.
Furniture, Upholstered. Barker Bros. Corporation. 564,093, Sept. 16; Serial No. 610,817, published June 24, 1952.
Furniture, Wood or steel office. The McBee Company. 563,993, Sept. 16; Serial No. 543,634, published July 1, 1952.
Mattresses. C. Jones. 564,249, Sept. 16; Serial No. 618,800.
Pillows. Comfort Pillow & Feather Company. 564,146, Sept. 16; Serial No. 617,837, published June 24, 1952.

CLASS 33

Glass, Flat. Blue Ridge Glass Corporation. 563,988, Sept. 16; Serial No. 534,988, published May 27, 1952.
Glass salt and pepper shaker sets. Luce Manufacturing Company. 564,007, Sept. 16; Serial No. 564,728, published May 20, 1952.

CLASS 34

Blowers and controls therefor. Autogas Company. 564,230, Sep. 16; Serial No. 590,065.
Gas burners. Geo. Bray & Co., Limited. 87,724–5, re-renewed Aug. 6, 1952. O. G. Sept. 16.
Oven section of a gas range. Chambers Corporation. 564,233, Sept. 16; Serial No. 593,220.
Safety extension pyrophoric lighters. American Metalcraft Corporation. 564,226, Sept. 16; Serial No. 553,799.
Stoves and ranges, Oil burning cook, heaters, etc. The A. J. Lindemann & Hoverson Company. 100,714, Oct. 20, 1914. Republished Sept. 16.
Stoves, ranges and ovens, Gas and oil cooking and heating. The A. J. Lindemann & Hoverson Company. 404,667, Dec. 14, 1943. Republished Sept. 16.

CLASS 36

Clarinets, oboes, bassoons, etc. J. M. Sahlein. 564,043, Sept. 16; Serial No. 591,957, published July 1, 1952.
Clarinets, trumpets, cornets, etc. H. & A. Selmer, Incorporated. 563,992, Sept. 16; Serial No. 543,227, published July 1, 1952.
Phonograph records, Grooved. Conversaphone Institute. 564,118, Sept. 16; Serial No. 614,135, published July 1, 1952.
Phonograph records, Grooved. Tops Recording Company, Inc. 564,077, Sept. 16; Serial No. 608,440, published July 1, 1952.
Phonograph records, Mechanically grooved. Concert Hall Society, Inc. 564,116, Sept. 16; Serial No. 613,763, published July 1, 1952.
Strings for violins, violas, violoncellos, etc. National Musical String Co. 564,054, Sept. 16; Serial No. 597,286, published July 1, 1952.

CLASS 37

Paper handkerchiefs. Pond's Extract Company. 298,472, renewed Oct. 25, 1952. O. G. Sept. 16.
Paper, Toilet. A. P. W. Paper Company, Inc. 297,632, renewed Sept. 20, 1952. O. G. Sept. 16.
Pencils, Lead, pencil holders, colored pencils, etc. A. W. Faber. 177,941, Jan. 1, 1924. Canceled Aug. 8, 1952. O. G. Sept. 16.
Filing supplies. J. F. Dunleavy. 294,119, renewed May 17, 1952. O. G. Sept. 16.
Score sheets, Partially printed, and scoring pencils and crayons. The Brunswick-Balke-Collender Company. 564,153, Sept. 16; Serial No. 618,150, published May 20, 1952.
Toilet-paper. Albany Perforated Wrapping Paper Company. 87,964–5, re-renewed Aug. 20, 1952. O. G. Sept. 16, 1952.

CLASS 38

Bulletins and pamphlets. Home Life Insurance Company. 294,560, renewed May 31, 1952. O. G. Sept. 16.
Cartoons and comic strips. G. Baker. 428,865, Apr. 8, 1947. Republished Sept. 16.
Comic strip. NEA Service, Inc. 291,316, renewed Feb. 9, 1952. O. G. Sept. 16.
Decalcomanias. The Meyercord Co. 564,139, Sept. 16; Serial No. 617,153, published June 10, 1952.
Magazine, Bi-monthly. Walker-Turner Co., Inc. 292,898, renewed Mar. 29, 1952. O. G. Sept. 16.
Publications. RCA Victor Company, Inc. 294,364, renewed May 24, 1952. O. G. Sept. 16.
Publications, Periodical, and publications issued from time to time. Lamar & Whitmore, Book Agents, Publishing House, Methodist Episcopal Church, South. 293,047, renewed Apr. 5, 1952. O. G. Sept. 16.

CLASS 39

Apparel, Women's. Newark Slip Contracting Co., Inc. 564,197, Sept. 16; Serial No. 622,674, published June 24, 1952.
Brassières. Hollywood-Maxwell Company. 564,231, Sept. 16; Serial No. 591,296.
Clothing, Articles of religious. Malhame Sewing Company. 564,143, Sept. 16; Serial No. 617,449, published June 24, 1952.
Clothing, Boys'. Shirma Boyswear Mfg. Co., Inc. 564,202, Sept. 16; Serial No. 624,307, published June 24, 1952.
Clothing, Maternity. Samuel Green of California. 564,127, Sept. 16; Serial No. 615,316, published June 24, 1952.
Coats and jackets, Ladies' and misses'. A. Davis & Sons, Inc. 525,172, May 9, 1950. Canceled June 13, 1952. O. G. Sept. 16.
Coats, suits, and overcoats, Men's. Peter Morton Leisurewear, Inc. 564,042, Sept. 16; Serial No. 590,752, published June 17, 1952.
Coats, Women's. The Printz-Biederman Company. 376,050, Mar. 12, 1940. Canceled Aug. 8, 1952. O. G. Sept. 16.
Dresses, Children's. Jack L. Honig, Inc. 564,034, Sept. 16; Serial No. 586,243, published June 24, 1952.
Dresses, Children's. Marsha Kay Originals. 564,112, Sept. 16; Serial No. 613,074, published June 24, 1952.
Dresses, Children's and girls'. Golden Girl Frocks, Inc. 564,198, Sept. 16; Serial No. 623,275, published June 24, 1952.
Frocks, Children's wash. Edward Shuwall & Co. 313,830, June 12, 1934. Republished Sept. 16.
Garments, Foundation. Benjamin & Johnes, Incorporated. 294,005, renewed May 10, 1952. O. G. Sept. 16.
Gloves and mittens, Children's. The Pioneer Rubber Company. 564,158, Sept. 16; Serial No. 618,758, published June 24, 1952.
Gloves, Work. Jasper Glove Company, Inc. 564,030, Sept. 16; Serial No. 585,150, published May 20, 1952.
Hats, Ladies'. Harry Camp Millinery Company. 558,575, May 6, 1952. Canceled Aug. 4, 1952. O. G. Sept. 16.
Hats, Women's and misses'. Bloomindale Bros., Inc. 298,029, renewed Oct. 11, 1952. O. G. Sept. 16.
Jackets, sports jackets, coats, etc., Men's and boys'. Pilgrim Sports & Work Apparel Manufacturers, Inc. 564,055, Sept. 16; Serial No. 597,412, published June 17, 1952.
Overalls, work shirts, coats, jackets, etc. Oshkosh B'Gosh, Inc. 564,002, Sept. 16; Serial No. 558,919, published June 17, 1952.

Overalls, work shirts, coats, jackets, etc. Oshkosh B'Gosh, Inc. 564,003, Sept. 16; Serial No. 558,921, published June 17, 1952.
Shirts, Work, flannel shirts, sport shirts, etc. Trenton Shirt Manufacturing Co. 564,108, Sept. 16; Serial No. 612,424, published June 24, 1952.
Shoes, Women's. Brauer Bros. Shoe Company. 342,534, Jan. 19, 1937. Republished Sept. 16, 1952.
Shoes, Women's and children's. Nu-Way Shoe Co. Inc. 357,397, June 7, 1938. Canceled May 29, 1952. O. G. Sept. 16.
Slips, girdles, garter belts, and baby pants. Stardust, Incorporated. 564,132, Sept. 16; Serial No. 616,517, published June 24, 1952.
Sport and dress shirts and pajamas, Boys' and youths'. The Marlan Company. 563,994–5, Sept. 16; Serial Nos. 545,502–3, published June 17, 1952.
Suits and outer shirts, Men's. Jordan Marsh Company. 564,019, Sept. 16; Serial No. 577,487, published June 3, 1952.
Suits and overcoats, underwear, hosiery, etc., Men's and boys'. Chicago Mail Order Company. 389,319, July 29,1941. Canceled Aug. 8, 1952. O. G. Sept. 16.
Suits and topcoats, Mens'. The Suit Shop. 564,048, Sept. 16; Serial No. 594,593, published June 17, 1952.
Suits, coats, vests, pants, etc. Pincus Brothers, Inc. 417,040, Oct. 9, 1945. Canceled Aug. 8, 1952. O. G. Sept. 16.
Suits, pants, and overcoats, Men's. A. Sagner & Sons, Inc. 367,398, May 16, 1939. Republished Sept. 16.
Suits, trousers, slacks, etc., Men's and young men's. Belmont Clothes, Inc. 564,181, Sept. 16; Serial No. 621,050, published June 24, 1952.
Suits, trousers, sport coats, etc., Men's. H. Freeman & Son, Inc. 564,172, Sept. 16; Serial No. 620,411, published June 24, 1952.
Topcoats and overcoats, Men's. Kingston Clothing Co. 564,040, Sept. 16; Serial No. 590,162, published June 17, 1952.
Trouser skirts, Combination. M. C. Bohr. 294,090, renewed May 17, 1952. O. G. Sept. 16.
Undergarments, Ladies'. Mayers & Schiller, Inc. 298,741, renewed Nov. 1, 1952. O. G. Sept. 16.
Underwear. The B. V. D. Company, Inc. 294,098, renewed May 17, 1952. O. G. Sept. 16.
Underwear, Ladies'. College Maid Company, Inc. 514,644, Aug. 30, 1949. Canceled Aug. 8, 1952. O. G. Sept. 16.
Underwear, Ladies'. Julius Kayser & Co. 295,593, renewed July 5, 1952. O. G. Sept. 16.
Underwear, polo shirts, T shirts, etc. Gibbs Underwear Company. 564,056, Sept. 16; Serial No. 597,439, published June 17, 1952.
Uniforms, Men's naval. Charles Salvato & Co. 564,145, Sept. 16; Serial No. 617,556, published June 24, 1952.
Wearing apparel, sportswear and haberdashery, Men's. National Shirt Shops of Delaware, Inc. 564,046, Sept. 16; Serial No. 592,923, published June 17, 1952.

CLASS 42

Blankets, Infants'. Anderson, Clayton & Co. 564,205–08, Sept. 16; Serial Nos. 625,232–5, published June 24, 1952.
Blankets, Infants'. Anderson, Clayton & Co. 564,209–10, Sept. 16; Serial No. 625,244–5, published June 24, 1952.
Carpets and rugs, Wilton, Axminster, and velvet. Archibald Holmes & Son. 564,200, Sept. 16; Serial No. 623,415, published June 24, 1952.
Carpets and rugs, Wilton, Axminster, and velvet. Archibald Holmes & Son. 564,201, Sept. 16; Serial No. 624,234, published June 24, 1952.
Carpets and rugs, Wilton, Axminster, and velvet. Archibald Holmes & Son. 564,203–04, Sept. 16; Serial Nos. 624,234, published June 24, 1952.
Crib cover, Baby's. Ronley Floating Blanket Co. 564,199, Sept. 16; Serial No. 623,316, published June 24, 1952.
Fabrics in the piece. National Mallinson Fabrics Corporation. 564,213, Sept. 16; Serial No. 625,432, published June 24, 1952.
Fabrics in the piece, Textile. Shirley Fabrics Corp. 564,211, Sept. 16; Serial No. 625,299, published June 24, 1952.
Fabrics in the piece, Textile. Shirley Fabrics Corp. 564,212, Sept. 16; Serial No. 625,371, published June 24, 1952.
Fabrics, Velvet. Crompton Company. 564,244, Sept. 16; Serial No. 612,485.
Piece goods. Verney Corporation. 564,087, Sept. 16; Serial No. 610,247, published June 24, 1952.
Piece goods, Cotton. Burton Brothers & Co. Inc. 298,694, renewed Nov. 1, 1952. O. G. Sept. 16.
Piece goods, Cotton, and filled and finished cotton piece goods. The Holliston Mills, Inc. 298,572, renewed Nov. 1, 1952. O. G. Sept. 16.
Rolls of air filter cloth. American Air Filter Company, Inc. 564,091, Sept. 16; Serial No. 610,659, published June 24, 1952.
Spreads, Bed. Bates Manufacturing Company. 296,006, renewed July 19, 1952. O. G. Sept. 16.

CLASS 43

Yarn, Cotton, crochet and knitting yarn, etc. Lily Mills Company. 564,183, Sept. 16; Serial No. 621,153, published June 24, 1952.

CLASS 44

Aeroporotomy type of apparatus. V. M. A. Inc. 564,036, Sept. 16; Serial No. 587,570, published June 17, 1952.
Hearing aid accessory. J. F. O'Hara. 564,071, Sept. 16; Serial No. 606,316, published May 27, 1952.
Kits for home permanents. L. B. Andrew. 564,122, Sept. 16; Serial No. 614,738, published June 17, 1952.
Respiration-testing and gas-administration apparatus and parts thereof. M. F. McKesson. 564,104, Sept. 16; Serial No. 612,052, published June 3, 1952.
Sanitary napkins and sanitary belts or supporters. Swansdown Sanitary Garment Company, Incorporated. 564,073, Sept. 16; Serial No. 606,735, published June 3, 1952.
Sanitary panties. Trago Manufacturing Co. Inc. 564,167, Sept. 16; Serial No. 620,177, published June 17, 1952.
Surgical adhesive plaster. Parke, Davis & Company. 564,121, Sept. 16; Serial No. 614,713, published June 17, 1952.
Sutures. P. Bréard. 564,152, Sept. 16; Serial No. 618,072, published June 17, 1952.
Syringes and needles made for hypodermic and other medical and surgical uses, clinical thermometers, etc. Becton Dickinson and Company. 563,989, Sept. 16; Serial No. 538,859, published June 10, 1952.

CLASS 45

Beverages, Nonalcoholic maltless. Millbrook Products Co. 298,418, renewed Oct. 25, 1952. O. G. Sept. 16.
Mineral waters, Natural. La Compagnie Fermiere de L'Etablissement Thermal De Vichy, Societe Anonyme. 86,208–09, re-renewed Apr. 23, 1952. O. G. Sept. 16.
Mineral waters, Natural. La Compagnie Fermiere de L'Etablissement Thermal De Vichy, Societe Anonyme. 86,576, re-renewed May 21, 1952. O. G. Sept. 16.

CLASS 46

Butter, cheese, milk powder, etc. Friesche Coöperatieve Zuivel - Export - Vereeniging, Kortheidshalve Frico. 361,434, Oct. 18, 1938, repulished Sept. 16.
Cake, cookies, and other bakery products. Grennan Bakeries, Inc. 293,466, renewed Apr. 26, 1952. O. G. Sept. 16.
Candles. Martha Washington Candles Company. 297,860, renewed Oct. 4, 1952. O. G. Sept. 16.
Candy, Teakwood, Inc. 289,787, Dec. 8, 1931; republished Sept. 16.
Canned fish. G. P Halferty & Co. 564,142, Sept. 16; Serial No. 617,439, published June 17, 1952.
Canned fruits and vegetables, marmalades and jams and canned meats. Conserves Hero Lenzbourg. 564,059, Sept. 16; Serial No. 601,199, published June 17, 1952.
Canned mackerel, canned bonito, and canned yellowtail. South Coast Fisheries, Inc. 564,006, Sept. 16; Serial No. 563,138, published May 27, 1952.
Canned peas, canned tomatoes, and canned tuna fish, etc. B. Filippone & Co. 297,901, renewed Oct. 4, 1952. O. G. Sept. 16.
Canned salmon. Alaska Fish Co. 88,821, re-renewed Oct. 29, 1952. O. G. Sept. 16.
Canned salmon. Fidalgo Island Packing Company. 298,447, renewed Oct. 25, 1952. O. G. Sept. 16.
Canned vegetables. J. J. Pieri. 564,023, Sept. 16; Serial No. 579,068, published June 17, 1952.
Canned vegetables. J. W. Taylor Packing Company, Inc. 563,987, Sept. 16; Serial No. 534,693, published June 24, 1952.
Cheese, Casa de' Nictolis. 564,250, Sept. 16; Serial No. 623,873.
Cheese. Emmental Cheese Corporation. 564,149–50, Sept. 16; Serial No. 617,955–6, published June 24, 1952.
Cheese. Societe Anonyme L'Auvergne Laitiere. 294,758, renewed July 7, 1952. O. G. Sept. 16.
Coffee. Southland Coffee Company. 297,254, renewed Sept. 6, 1952. O. G. Sept. 16.
Coffee. Standard Brands Incorporated. 298,683, renewed Nov. 1, 1952. O. G Sept. 16.
Flour, Cake. The Colorado Milling & Elevator Co. 298,095, renewed Oct. 11, 1952. O. G. Sept. 16.
Flour, Wheat. Goldtree, Liebes & Co. 296,897, renewed Aug. 23, 1952. O. G. Sept. 16.
Fruits, Fresh citrus. Wm. G. Roe & Company. 294,860, renewed June 7, 1952. O. G. Sept. 16.
Ice milk mix, Dry and liquid, and frozen ice milk. Foster's Freeze National Corporation. 564,237, Sept. 16; Serial No. 600,330.
Meat products. Albert F. Goetze, Incorporated. 563,990, Sept. 16; Serial No. 541,667, published June 24, 1952.
Mole, a Mexican dish consisting of red pepper and seasoning, etc. M. P. N. de Degetau. 564,075, Sept. 16; Serial No. 607,435, published June 24, 1952.
Olive oil. A. Corrao. 293,233, renewed Apr. 19, 1952. O. G. Sept. 16.
Olive oil and canned tomatoes. Olive Oil Industry, Inc. 564,028, Sept. 16; Serial No. 583,169, published June 17, 1952.

Olives, Bottled, bottled cherries, and package dates. B. M. Reeves Company, Inc. 297,264, renewed Sept. 6, 1952. O. G. Sept. 16.
Pancake and waffle batter, Prepared. Grid-L Rich, Inc. 564,235, Sept. 16; Serial No. 597,751.
Pork, Salt. Geo. A. Hormel & Company. 297,514, renewed Sept. 20, 1952. O. G. Sept. 16.
Preparation consisting of a specially processed oat product. Meat Industry Suppliers, Inc. 564,240, Sept. 16; Serial No. 608,827.
Sugar pectin preparation. White-Stokes Company, Inc. 293,841, renewed May 10, 1952. O. G. Sept. 16.
Toppings for ice cream sundaes and sodas, canned foods, etc. H. C. Schranck Company. 564,022, Sept. 16; Serial No. 578,638, published June 17, 1952.

CLASS 50

Bootholders. Dexdahl, Inc. 564,236, Sept. 16; Serial No. 598,988.

CLASS 51

Cologne, Stick. United Enterprises, Inc. 564,179, Sept. 16; Serial No. 620,700, published May 20, 1952.
Colognes. John Robert Powers Products Co., Inc. 564,176, Sept. 16; Serial No. 620,552, published June 17, 1952.
Cosmetic. Lydia O'Leary, Inc. 564,170, Sept. 16; Serial No. 620,360, published May 20, 1952.
Cosmetics. Christy, Inc. 564,110, Sept. 16; Serial No. 612,728, published May 20, 1952.
Hair oil and tonic. Takara Laboratories Corporation. 564,105, Sept. 16; Serial No. 612,281, published June 17, 1952.
Hair restorer. Royal Imperial Products Corp. 564,128, Sept. 16; Serial No. 615,794, published May 20, 1952.
Lipstick, rouge and nailpolish. Elizabeth Arden Sales Corporation. 564,168, Sept. 16; Serial No. 620,185, published May 20, 1952.
Lotion, Foundation, and lipstick. R. Hudnut. 564,106, Sept. 16; Serial No. 612,326, published May 20, 1952.
Lotion, Skin, vanishing skin-lotion, powder base, etc. Rapidol Distributing Corporation. 564,109, Sept. 16; Serial No. 612,626, published May 20, 1952.
Lotions for the skin. Campana Corporation. 564,140, Sept. 16; Serial No. 617,224, published Apr. 15, 1952.
Mouth wash. Wernet Dental Mfg. Co., Inc. 564,248, Sept. 16; Serial No. 616,930.
Nail enamel and lipstick. Revlon Products Corporation. 564,129–30, Sept. 16; Serial Nos. 616,048–9, published May 20, 1952.
Olive oil shampoo, essence of peppermint, bay rum West Indian, etc. Bloomingdale Bros., Inc. 298,283, renewed Oct. 18, 1952. O. G. Sept. 16.
Perfume. Societe a Responsabilite Limitee Dite: Marquay. 564,175, Sept. 16; Serial No. 620,531, published May 20, 1952.
Perfume, eau de cologne, toilet water, etc. Jacques Dobais, Inc. 564,102, Sept. 16; Serial No. 611,774, published June 17, 1952.
Perfume, face powder and face cream. Coty, Inc. 564,171, Sept. 16; Serial No. 620,401, published June 17, 1952.
Perfume, to'let water, and cologne. Princesse Titania, Inc. 564,111, Sept. 16; Serial No. 613,023, published June 17, 1952.
Perfume, toilet water, dusting powder, etc. Cassell Products Inc. 564,089, Sept. 16; Serial No. 610,255, published May 20, 1952.
Perfumes. Guerlain Perfumery Corporation of Delaware. 298,844, renewed Nov. 8, 1952. O. G. Sept. 16.
Perfumes, toilet waters, talcum-powder, etc. The C. B. Woodworth Sons Co. 87,580, July 23, 1912. New certificate. O. G. Sept. 16. (Formerly Class 6.)
Permanent hair waving solution and permanent hair waving cream. Samuel Bonat & Bro. Inc. 394,051, Mar. 17, 1942. Republished Sept. 16.
Powder for treating athlete's foot and for deodorizing, etc. Theodore Metcalf Co. 291,410, renewed Feb. 9, 1952. O. G. Sept. 16.
Toilet waters and perfumes. L. H. Pearce. 39,193, renewed Nov. 4, 1952. O. G. Sept. 16.

CLASS 52

Chemical products. Society of Chemical Industry in Basle. 295,730, renewed July 12, 1952. O. G. Sept. 16.
Cleaner and preserver, Liquid paint brush and roller. G. N. Coughlan Company. 564,189, Sept. 16; Serial No. 621,817, published June 17, 1952.
Cleaner, Stove. The Wolcott Company. 564,241, Sept. 16; Serial No. 609,065.
Cleaners, Dry. J. Handler. 281,535, Mar. 24, 1931. Republished Sept. 16.
Germicidal dishwashing and glass washing composition. Wyandotte Chemicals Corporation. 564,035, Sept. 16; Serial No. 587,414, published Aug. 14, 1951.
Phosphoric acid and phosphate compounds. Parker Rust Proof Company. 298,605, renewed Nov. 1, 1952. O. G. Sept. 16.
Preparation for prevention and elimination of rust. The Franklin Oil & Gas Company. 298,641, renewed Nov. 1, 1952. O. G. Sept. 16.
Shampoo. Duart Manufacturing Co., Ltd. 564,147, Sept. 16; Serial No. 617,867, published June 17, 1952.
Shampoos. E. Schueller. 564,120, Sept. 16; Serial No. 614,516, published June 17, 1952.
Soap, Liquid, surgical soap, hand soap, etc. West Disinfecting Company. 564,096, Sept. 16; Serial No. 611,161, published June 17, 1952.
Soap, Powdered hand. The Chemical Corporation. 564,047, Sept. 16; Serial No. 594,421, published June 3, 1952.
Soaps. Magnuson Products Corporation. 296,893, renewed Aug. 23, 1952. O. G. Sept. 16.
Soaps and synthetic detergents. Armour and Company. 564,095, Sept. 16; Serial No. 611,068, published June 17, 1952.
Soaps, Laundry, and alkali compound detergents. Gold Par Products Co., Inc. 543,295, June 5, 1951. Canceled Aug. 8, 1952. O. G. Sept. 16.
Solvent preparation. Pennsylvania Refining Company. 564,053, Sept. 16; Serial No. 596,358, published June 17, 1952.
Solvents, Degreasing and drying. Detrex Corporation. 564,072, Sept. 16; Serial No. 606,699, published June 17, 1952.

CLASS 100

Engineering services. Edgar E. Brosius Company Inc. 564,217, Sept. 16; Serial No. 583,327, published June 24, 1952.
Hair styling, shaping, permanent waving, etc. R. Brody. 564,253, Sept. 16; Serial No. 610,162.
Stimulation and maintenance of interest in college and fraternal affairs. Sigma Chi Fraternity. 564,224, Sept. 16; Serial No. 596,528, published June 24, 1952.

CLASS 101

Advertising, promoting, extending and maintaining distribution of products of subscribing manufacturers. Pennsylvania Grocers Association. 564,216, Sept. 16; Serial No. 576,980, published June 24, 1952.
Advertising services. Archer Productions, Inc. 564,220, Sept. 16; Serial No. 597,376, published June 24, 1952.
Designing and preparing advertising layouts. James Thomas Chirurg Company. 564,252, Sept. 16; Serial No. 567,755.
Services in connection with the promotion and sale of automobile service bonds. The Sovereign Plan, Inc. 564,218–19, Sept. 16; Serial Nos. 587,828–9, published June 24, 1952.

CLASS 103

Laundry and dry cleaning. One Hour Valet, Inc. 564,222, Sept. 16; Serial No. 612,469, published June 24, 1952.

CLASS 106

Fabrication of ferrous and non-ferrous metal products. Northern Metal Products Company. 564,221, Sept. 16; Serial No. 609,412, published June 24, 1952.

CLASS 107

Entertainment service, Rendering. Starr-Allen Professional Studios. 564,223, Sept. 16; Serial No. 613,028, published June 24, 1952.
Preparation of scripts and production of moving pictures therefrom. Robert Yarnall Richie Productions, Inc. 564,215, Sept. 16; Serial No. 564,289, published June 24, 1952.

LIST OF PLANT PATENTEES

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Chrysanthemum plant. 1,129, Sept. 16.

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Chrysanthemum plant. 1,130, Sept. 16.

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Chrysanthemum plant. 1,131, Sept. 16.

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Chrysanthemum plant. 1,132, Sept. 16.

Clarke, W. B., & Co., assignee: *See*—
Clarke, Walter B.

Clarke, Walter B., San Jose, Calif., assignor to W. B. Clarke & Co. Lilac plant. 1,128, Sept. 16.

Conard-Pyle Company,The, assignee: *See*—
Poulsen, Svend.

Germain's, Inc., assignee: *See*—
Whisler, Milton L.

Jackson & Perkins Company, assignee: *See*—
Boerner, Eugene S.

Poulsen, Svend, Copenhagen-Valby, Denmark, assignor to The Conard-Pyle Company, West Grove, Pa. Rose plant. 1,133, Sept. 16.

Whisler, Milton L., assignor to Germain's, Inc., Van Nuys, Calif. Rose plant. 1,134, Sept. 16.

Whisler, Milton L., assignor to Germain's, Inc., Van Nuys, Calif. Rose plant. 1,135, Sept. 16.

LIST OF DESIGN PATENTEES

Alba, Augusto, San Francisco, Calif. Collecting tray. 167,732, Sept. 16.

Alliance Furniture Company, assignee: *See*—
Anderson, Stanley T.

Anderson, Stanley T., assignor to Alliance Furniture Company, Jamestown, N. Y. Combination chest, writing desk, and extension table. 167,733, Sept. 16.

Applebaum, Benjamin, Buffalo, N. Y. Telephone utility cabinet. 167,734, Sept. 16.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Weiss, Alexander C.
Weiss, Alexander C. H., and Ehlers.

Ashway, Jerry N., Jenkintown, Pa. Child's compartmented dining tray. 167,735, Sept. 16.

Bernard Edward Co., assignee: *See*—
Yellin, Bernard.

Bowman, Mark L., assignor to International Oil Burner Co., St. Louis, Mo. Chimney. 167,736, Sept. 16.

Braun, Walter, assignor to Cobblers Incorporated, Los Angeles, Calif. Sandal or similar article. 167,737, Sept. 16.

Campbell, Walter L., St. Petersburg, Fla. Bench. 167,738, Sept. 16.

Carr, William J., assignor to Heywood-Wakefield Company, Gardner, Mass. Table. 167,739, Sept. 16.

Chrysler Corporation, assignee: *See*—
Keane, Henry J.

Cobblers Incorporated, assignee: *See*—
Braun, Walter.

Corwin, Alfred W., Princeton, Ill. Electric fan. 167,740, Sept. 16.

Coventry Ware, Inc., assignee: *See*—
Hasenstab, Bernhard.

Cowan, R. Guy, Fayetteville, assignor to Onondaga Pottery Company, Syracuse, N. Y. Cup. 167,741, Sept. 16.

Dahlberg, Arnold R., assignor to The Dahlberg Company, Minneapolis, Minn. Radio cabinet. 167,742, Sept. 16.

Dahlberg Company, The, assignee: *See*—
Dahlberg, Arnold R.

Davis, Charles J.: *See*—
Michaels, John I., Loesch, Haddock, and Davis.

Dorfman, Jerome J., New York, N. Y. Combination heating and cooling pad. 167,743, Sept. 16.

Dreyfuss, Henry, Pasadena, assignor to Sunkist Growers, Inc., Los Angeles, Calif. Refrigerated beverage dispenser. 167,744, Sept. 16.

Ehlers, Russell W.: *See*—
Weiss, Alexander C. H., and Ehlers.

Flex-O-Glass, Inc., assignee: *See*—
Warp, John R.

General Electric Company, assignee: *See*—
McFarland, Donald L.
Spencer, Richard O., and Voight.

Gordon, Melvin J., assignee: *See*—
Wilcher, Abrasha.

Gordon, Sadye Z., assignee: *See*—
Wilcher, Abrasha.

Grand Rapids Store Equipment Company, assignee: *See*—
Porter, Wayne R.

Griffith, Marilyn, Los Angeles, Calif. Portable dollhouse. 167,745, Sept. 16.

Haddock, Kenneth E.: *See*—
Michaels, John I., Loesch, Haddock, and Davis.

Hanscom, Joan, Providence, R. I. Hood ornament for automobiles. 167,746, Sept. 16.

Hasenstab, Bernhard, Akron, assignor to Coventry Ware, Inc., Barberton, Ohio. Combined holder and measuring spoons. 167,747, Sept. 16.

Hennessy, Daniel J., New York, N. Y. Plaque. 167,748, Sept. 16.

Heywood-Wakefield Company, assignee: *See*—
Carr, William J.

Hitchcock, Richard E., Birmingham, Mich., assignor to Sears, Roebuck and Co., Chicago, Ill. Grip for cooking range door. 167,749, Sept. 16.

International Oil Burner Co., assignee: *See*—
Bowman, Mark L.

Karoff, Robert B., assignor to Novelty Utilities, Inc., New York, N. Y. Combined foldable roast board and food tray. 167,750, Sept. 16.

Kaufman, Herman, New York, N. Y. Embroidered fabric. 167,751, Sept. 16.

Kaufman, Herman, New York, N. Y. Embroidered fabric. 167,752, Sept. 16.

Keane, Henry J., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Automobile hood ornament. 167,753, Sept. 16.

Kerby, Dean F., St. Louis, Mo. Nursey bed unit. 167,754, Sept. 16.

Kornstein, Martin L., Jackson Heights, N. Y. Radiant heater. 167,755, Sept. 16.

Lambert, Raoul A., Springfield, Mass., assignor to Westinghouse Electric Corporation. Power unit for a food mixer or the like. 167,756, Sept. 16.

Leigh, Cyril W., East Orange, N. J., assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 167,763, Sept. 16.

Lillian Knitting Mills Company, assignee: *See*—
Patterson, Arthur L., Sr.

Little, John M., assignor to Toledo Scale Company, Toledo, Ohio. Weighing device. 167,762, Sept. 16.

Loesch, Carl A.: *See*—
Michaels, John I., Loesch, Haddock, and Davis.

Lorenz, Anton, assignee: *See*—
Luckhardt, Johannes.

Luckhardt, Johannes, Berlin-Dahlem, Germany, assignor to A. Lorenz, Buffalo, N. Y. Lounge chair or the like. 167,761, Sept. 16.

Ludwig, Louis, New York, N. Y. Wall plate or similar article. 167,760, Sept. 16.

Manchester Hosiery Mills, assignee: *See*—
Wilcher, Abrasha.

McFarland, Donald L., Stratford, Conn., assignor to General Electric Company. Cabinet electric air circulator. 167,759, Sept. 16.

Michaels, John I., C. A. Loesch, K. E. Haddock, and C. J. Davis, assignors to Mid-Western Industries, Inc., Wichita, Kans. Loader unit for farm tractors. 167,758, Sept. 16.

Mid-Western Industries, Inc., assignee: *See*—
Michaels, John I., Loesch, Haddock, and Davis.

Moore, John J., Dallas, assignor to Wisteria Hosiery Mills, Inc., Gastonia, N. C. Lady's stocking. 167,764, Sept. 16.

Morgan, Jack, Chicago, Ill. Combination grill, waffle iron, and broiler. 167,757, Sept. 16.

Novelty Utilities, Inc., assignee: *See*—
Karoff, Robert B.

Offner, Mel, New Orleans, La. Record cabinet. 167,765, Sept. 16.

Olevin, Adolph, Brooklyn, N. Y. Bobby pin. 167,766, Sept. 16.

O'Neil, James R., San Francisco, Calif. Dental mirror. 167,767, Sept. 16.

Onondaga Pottery Company, assignee: *See*—
Cowan, R. Guy.
Leigh, Cyril W.

Patterson, Arthur L., Sr., assignor to Lillian Knitting Mills Company, Albemarle, N. C. Lady's stocking. 167,768, Sept. 16.

Phelps, William H., Ralston, Nebr. Combined starting pulley and blower for a gasoline engine. 167,769, Sept. 16.

Porter, Wayne R., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich. Cabinet. 167,770, Sept. 16.
Reams, Theodore R., Kansas City, Mo. Arrow nock. 167,771, Sept. 16.
Rose, Henry, New York, N. Y. Textile fabric. 167,772, Sept. 16.
Rubaloff, Sidney S., Los Angeles, Calif. Counter. 167,773, Sept. 16.
Schletter, Richard E., Oak Lane, Pa. Stocking. 167,774, Sept. 16.
Schmidt, Andrew A., Los Angeles, Calif. Paint brush. 167,775, Sept. 16.
Scoville Manufacturing Company, assignee: *See*—
Spender, Donald L.
Sears, Roebuck and Co., assignee: *See*—
Hitchcock, Richard E.
Spencer, Richard O., Santa Monica, Calif., and B. R. Voight, Milford, Conn., assignors to General Electric Company. Travel iron. 167,776, Sept. 16.
Spender, Donald L., Wolcott, assignor to Scoville Manufacturing Company, Waterbury, Conn. Perfume bottle casing. 167,777, Sept. 16.
Stackhouse, David L., Warwick, R. I. Game board. 167,778, Sept. 16.
Steadman, Audrey H., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Pneumatic tire. 167,779, Sept. 16.
Sterancsak, Steve, Clifton, N. J. Tricycle. 167,780, Sept. 16.
Stone, Natalie G., assignee: *See*—
Wilcher, Abrasha.
Sunkist Growers, Inc., assignee: *See*—
Dreyfuss, Henry.
Toledo Scale Company, assignee: *See*—
Little, John M.
United States Rubber Company, assignee: *See*—
Steadman, Audrey H.
Voight, Bradford R.: *See*—
Spencer, Richard O., and Voight.
Warp, John R., assignor to Flex-O-Glass, Inc., Chicago, Ill. Combined displaying and dispensing stand. 167,781, Sept. 16.
Weiss, Alexander C., Takoma Park, Md., assignor to the United States of America as represented by the Secretary of the Army. Combination field desk and trunk. 167,782, Sept. 16.
Weiss, Alexander C. H., Chicago, Ill., and R. W. Ehlers, Silver Spring, Md., assignors to the United States of America as represented by the Secretary of the Army. Packboard. 167,783, Sept. 16.
Westinghouse Electric Corporation, assignee: *See*—
Lambert, Raoul A.
Whitaker, James P., Sledge, Miss. Combination telephone tray, lamp, and memorandum pad. 167,784, Sept. 16.
Whitaker, James P., Sledge, Miss. Combination telephone tray, lamp, and memorandum pad. 167,785, Sept. 16.
Wilcher, Abrasha, assignor to M. J. and S. Z. Gordon, and N. G. Stone, doing business as Manchester Hosiery Mills, Manchester, N. H. Lady's stocking. 167,786, Sept. 16.
Wisteria Hosiery Mills, Inc., assignee: *See*—
Moore, John J.
Witmer, Florence C., New York, N. Y. Clock. 167,787, Sept. 16.
Yellin, Bernard, assignor to Bernard Edward Co., Chicago, Ill. Bird feed tray. 167,788, Sept. 16.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abramowitz, Irving: *See*—
Picciano, Robert, and Abramowitz.
Aceves, Julius G.: *See*—
Amy, Ernest V., and Aceves.
Adams, Bruce P., Evanston, J. Palma, Jr., Berwyn, and J. G. Knapp, Lombard, assignors to Pelouze Manufacturing Company, Evanston, Ill. Ripper for seams or the like. 2,610,399, Sept. 16.
Adams, Clarence R., Montrose, R. C. Sherwood, West Hollywood, and B. D. Mouron, San Marino, Calif., assignors, by mesne assignments, to said Sherwood and said Mouron. Accelerator brake control. 2,610,716, Sept. 16.
Adams, Robert W., and C. L. Taylor, Wheatridge, Colo. Switch device for Christmas tree lights. 2,611,065, Sept. 16.
Admiral Corporation, assignee: *See*—
Iwashita, George K.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Campbell, Tod W., and Coppinger.
Daul, George C., and Reid.
Evans, Cyril D., Schwab, and Cowan.
Kline, Leo, and Sonoda.
Montgomery, Edna M., Conway, and Weakley.
Ahlstrand, David A., Atlanta, Ga. Spindle dumper. 2,610,654, Sept. 16.
Air Hydraulics, Inc., assignee: *See*—
Bryant, Ray W.
Aktiebolaget Atlas Diesel, assignee: *See*—
Carlson, Eric.
Aktiebolaget Separator, assignee: *See*—
Hytte, Robert P. L.
Aktiebolaget Svenska Kullagerfabriken, assignee: *See*—
Göthberg, Karl E. A.
Aktiebolaget Teximpex, assignee: *See*—
Heintges, Clemens A.
Aktieselskabet De Danske Sukkerfabrikker, assignee: *See*—
Brieghel-Müller, Arne V.
Alben, Frank L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Locomotive truck. 2,610,586, Sept. 16.
Aleshin, William N., South Windsor, Conn. Tobacco Lath. 2,610,883, Sept. 16.
Alexander, William C., Port Arthur, Tex. Wheel control mechanism for golf club carriages. 2,610,864, Sept. 16.
Alford, Andrew, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Device for radiating circularly polarized waves. 2,611,087, Sept. 16.
Allen, Frank B., Towaco, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Fire extinguisher discharge head and carrying handle. 2,610,693, Sept. 16.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Otto, Eugene J.
Allison, Percy R., Felnham, assignor to Flight Refuelling Limited, London, England. Flexible hose end connection. 2,610,869, Sept. 16.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Rydbeck, Gösta.
Altgelt, Herman E., South Bend, Ind., assignor to The Oliver Corporation. Tying mechanism for balers. 2,610,573, Sept. 16.
Ambrose, John, Wind Gap, Pa. Insecticidal powder container and duster. 2,610,432, Sept. 16.
American Cyanamid Company, assignee: *See*—
McSheehy, Justin A., and Raimond.
American Monorail Company, The, assignee: *See*—
Moore, Ralph T.
American Optical Company, assignee: *See*—
Beitz, Richard C.
Johnson, John O.
American Pulley Company, The, assignee: *See*—
Williams, William A.
American Rice Growers Cooperative Association, assignee: *See*—
Cassidy, Millard M., and Nawry.
American Steel Foundries, assignee: *See*—
Sedgwick, Robert K.
Amy, Aceves & King, Incorporated, assignee: *See*—
Amy, Ernest V., and Aceves.
Amy, Ernest V., Atlantic Beach, and J. G. Aceves, assignors to Amy, Aceves & King, Incorporated, New York, N. Y. Antenna system. 2,611,086, Sept. 16.
Anchor Hocking Glass Corporation, assignee: *See*—
Fouse, Frederick Z.
Anderson, Edward G. O., West Wickham, G. G. Blundell, Ealing, London, and J. E. Rhys-Jones, Iver, assignors to Scophony-Baird Limited, London, and The Plessey Company Limited, Ilford, England. Aerial for very high frequency radio receivers. 2,611,082, Sept. 16.
Annett Box Company, assignee: *See*—
Kuniholm, Carl A.
Anxionnaz, René: *See*—
Imbert, Roger J., and Anxionnaz.
Appert, Kurt E., San Francisco, assignor to Lenkurt Electric Co., Inc., San Carlos, Calif. Carrier type signaling system. 2,611,031, Sept. 16.
Arends, Jacobus L., Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Superheterodyne receiver. 2,611,083, Sept. 16.
Arey, Ralph G., Brockton, Mass. Repeating safety razor. 2,610,394, Sept. 16.
Armour and Company, assignee: *See*—
Sifferd, Robert H., and Schmitt.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Dunn, Ralph L.
Fischer, Karl A., and Hecht.
Kuthe, Herman K., and Bloemeke.
Arvin Industries, Inc., assignee: *See*—
Farr, Edward A.
Ludlow, Edmund.
Aske, Irving E., Muskegon, and K. W. Fitzpatrick, North Muskegon, Mich. Ductile bismuth alloy and a ductile wire formed therefrom. 2,610,913, Sept. 16.
Atkinson, William H., Jackson, Miss., assignor of one-third to L. M. Conkwright, Oklahoma City, Okla. Boring head. 2,610,529, Sept. 16.
Atlantic Refining Company, The, assignee: *See*—
Clarke, Edgar W.
Atlas Bolt & Screw Company, The, assignee: *See*—
Schellentrager, Eugene W.
Austin, James L., assignee: *See*—
Card, Kenneth F.
Austin, Samuel, Hartford, Conn. Paintbrush attachment. 2,610,731, Sept. 16.
Automatic Electric Laboratories, Inc., assignee: *See*—
Baker, George T.
McCreary, Harold J.
Avakian, Emik A., Yonkers, N. Y. Stored function calculator. 2,610,791, Sept. 16.
Babcock & Wilcox Company, The, assignee: *See*—
Brister, Paul M.
Babish, Richard C.: *See*—
Waller, Fred, and Babish.
Babson Bros. Co., assignee: *See*—
Thomas, Chester A.
Bacharach Industrial Instrument Company, assignee: *See*—
Stein, Joseph A., and Wagner.
Back, Frank G., New York, N. Y. Catadioptric telephoto system. 2,610,547, Sept. 16.
Bagdigian, Ralph P., Somerville, Miss. Multiple die cutter. 2,610,684, Sept. 16.
Bagley, John F., Jr., South Hadley, assignor to Stanley Home Products, Inc., Westfield, Mass. Tubular handle connection. 2,610,902, Sept. 16.
Bailey, Francis T., East Aurora, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fault responsive indicating control apparatus preferably for textile machinery. 2,611,017, Sept. 16.
Bailey, William F., Valley Stream, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Direct current restorer for maintaining constant black level at cathode-ray tube. 2,611,029, Sept. 16.
Baker, George T., Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Armature mounting for plural electromagnetic relays. 2,611,012, Sept. 16.
Baker Perkins Limited, assignee: *See*—
Tunley, Allan A.
Balasevich, John J., Woodbury, assignor to Scovill Manufacturing Company, Waterbury, Conn. Lipstick container. 2,610,733, Sept. 16.
Ball, Dexter D., Cincinnati, Ohio. Sectional container. 2,610,760, Sept. 16.

Ballantyne, David H., Littleover, and H. E. W. West, Allestree, assignors to Rolls-Royce Limited, Derby, England. Gas turbine engine with starting device and automatic fuel control means. 2,610,466, Sept. 16.

Ballew, Frank E., Lansing, Mich. Highway painted line marker. 2,610,422, Sept. 16.

Baptista, Americo, Oakland, Calif., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich. Spring structure. 2,610,335, Sept. 16.

Barcus, Edward L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Direction signaling device. 2,611,047, Sept. 16.

Barnes, Jeffery W., Farnborough, England. Gyroscope. 2,610,509, Sept. 16.

Barr, John L., Baltimore, Md. Liquid cooler. 2,610,485, Sept. 16.

Basilewsky, Alexis: *See*—
Deprez, Charles, and Basilewsky.

Baumbach, Richard C., assignor of one-half to I. Frey, Cincinnati, Ohio. Marking garments for identification. 2,610,419, Sept. 16.

Bayston, John R., Los Angeles, Calif. Ice cracker. 2,610,803, Sept. 16.

Bean, Donald, San Jose, Calif. Combined slingshot and arrow catapult. 2,610,620, Sept. 16.

Beaton, George, and Son Limited, assignee: *See*—
Young, Frederick C.

Beatty Bros. Limited, assignee: *See*—
Beatty, William G.

Beatty, Guy M., Bakersfield, Calif. Mud box. 2,610,690, Sept. 16.

Beatty, William G., assignor to Beatty Bros. Limited, Fergus, Ontario, Canada. Corner post for sectional stalls. 2,610,830, Sept. 16.

Beck, Henry E., Racine, Wis., J. C. Jozwik, State College, N. Mex., and W. J. Innes, Racine, Wis., assignors to J. I. Case Company. Corn husker roll. 2,610,634, Sept. 16.

Beck, Warren R., Mahtomedi, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Reflex-reflector lens elements. 2,610,922, Sept. 16.

Becker, Philip D., Hingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Friction hinge. 2,610,355, Sept. 16.

Beckwith, Raymond A., assignor to Koehring Company, Milwaukee, Wis. Clutch. 2,610,717, Sept. 16.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener device. 2,610,377, Sept. 16.

Bedingfield, William, New Richmond, Ohio. Merchandise stand. 2,610,817, Sept. 16.

Beiser, Elmer H., Peru, Ill., assignor to General Time Corporation, New York, N. Y. Interval timer. 2,610,683, Sept. 16.

Beltz, Richard C., Buffalo, N. Y., assignor to American Optical Company, Southbridge, Mass. Electrical control means for film driving mechanisms. 2,610,540, Sept. 16.

Beldin, Royal L., Davenport, Iowa, assignor to Deere & Company, Moline, Ill. Screw conveyer. 2,610,727, Sept. 16.

Bell & Howell Company, assignee: *See*—
Howell, Albert S.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.

Bendix Aviation Corporation, assignee: *See*—
Emerson, John F.

Bengtsson, Johan F., New York, N. Y. Weighing scale. 2,610,845, Sept. 16.

Bentley, William A.: *See*—
Faulkner, Richard D., and Bentley.

Bernake, Raymond J.: *See*—
Manske, Joseph J., Martin and Bernake.

Bernarde, Henry L.: *See*—
Wiese, David B., and Bernarde.

Berry, Frank W., Long Beach, Calif., assignor by decree of distribution to L. Berry. Testing pipe. 2,610,691, Sept. 16.

Berry, Lois, assignee: *See*—
Berry, Frank W.

Berry, Norton E., Newburgh, Ind., assignor to Servel, Inc., New York, N. Y. Apparatus for controlling the concentration of noncondensable gases in an absorption refrigeration system. 2,610,482, Sept. 16.

Best, Wilson F., Grand Rapids, Mich. Straight sided stacking tote or packing box. 2,610,756, Sept. 16.

Bethlehem Steel Company, assignee: *See*—
Roecker, Earl E.

Bethlehem Supply Company, assignee: *See*—
Fagg, Lee.

Betts, William W., assignor of five percent to M. Dilley, Binghamton, N. Y. Rotary scoring cutter assembly. 2,610,687, Sept. 16.

Betz Corporation, assignee: *See*—
Lange, Henry J.

Betz, Lawrence, Chicago, Ill. Battery and cable carrier. 2,610,987, Sept. 16.

Bevan, George, Norfolk, Va., assignor to Freight Handling Corporation. Lift truck. 2,610,751, Sept. 16.

Biedawski, Józef: *See*—
Mann, Ralph J., and Biedawski.

Bird, Whitworth F., Swarthmore, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Rotary roll clearer for draft frames. 2,610,362, Sept. 16.

Bishop, R. H., Company, assignee: *See*—
Royer, Celestine A.

Blitzer, Edmund C., assignor to Colorado Iron Works Company, Denver, Colo. Wearing shoes for ore separators. 2,610,739, Sept. 16.

Blanton, William B., Rockville Centre, and A. H. Scheinman, Brooklyn, assignors to The Western Union Telegraph Company, New York, N. Y. Testing arrangement for automatic telegraph switching system. 2,611,026, Sept. 16.

Bledsoe, Carl L., assignor to Ogle Construction Co., Chicago, Ill. Combined delivery tube nozzle and valve. 2,610,780, Sept. 16.

Bliss, George L.: *See*—
Chase, Charles R., and Bliss.

Bliss, Harvey N., Windsor, assignor to Veeder-Root Incorporated, Hartford, Conn. Counter resetting mechanism. 2,610,794, Sept. 16.

Bloemeke, Richard H.: *See*—
Kuthe, Herman K., and Bloemeke.

Blundell, Geoffrey G.: *See*—
Anderson, Edward G. O., Blundell, and Rhys-Jones.

Bobbs, William P., Toronto, Ontario, assignor to A. V. Roe Canada Limited, Malton, Peel, Ontario, Canada. Automatic pattern controlled machine tools. 2,610,447, Sept. 16.

Boeing Airplane Company, assignee: *See*—
Cooper, James B., and Jepson.
Kirkbride, John F., and Mayer.

Bohlke, Paul G., Flushing, N. Y., assignor to Sylvania Electric Products Inc. Traveling wave tube. 2,611,102, Sept. 16.

Bolton, John W., & Sons, Inc., assignee: *See*—
Stuck, Harold D.

Bonanno, Joseph L., Madison, N. J., assignor to The Lionel Corporation, New York, N. Y. Toy caboose. 2,610,442, Sept. 16.

Boosman, Herman B. R., and P. Zijlstra, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Telegraph transmitter with amplitude-modulation. 2,611,078, Sept. 16.

Borden, George C., Jr.: *See*—
Fisher, Jacob I., and Borden.

Borland, Eileen E., Cambridge, G. A. Hobart III, C. Z. Nawrocki, Boston, and H. V. Neher, Arlington, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Making grid assemblies. 2,610,387, Sept. 16.

Borst, Robert O.: *See*—
English, Mark A., and Borst.

Bosch, Carl, Westfield, N. J., and M. H. Shamos, New York, N. Y., assignors to Chatham Electronics Corporation, Newark, N. J. Electrostatic voltage multiplier. 2,610,994, Sept. 16.

Boucher, Frank G., Tulsa, Okla., assignor to Standard Oil Development Company. Gravity meter. 2,610,507, Sept. 16.

Boykin, John R., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,611,091, Sept. 16.

Boyle, Thomas H., assignee: *See*—
Dreese, George A.

Bradley, Stephen D., assignor to Detroit Macoid Corporation, Detroit, Mich. Sealing strip. 2,610,713, Sept. 16.

Bradley, Stephen D., assignor to Detroit Macoid Corporation, Detroit, Mich. Sealing strip. 2,610,714, Sept. 16.

Brant, Arthur A., Toronto, Ontario, Canada, and E. A. Gilbert, Lake Hiawatha, N. J., assignors, by mesne assignments, to Geophysical Exploration Company. Geophysical exploration. 2,611,004, Sept. 16.

Braunberger, Ray A., Chicago, Ill. Fifth wheel locking means. 2,610,862, Sept. 16.

Brecht, Winston A., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Locomotive structure. 2,610,585, Sept. 16.

Breedlove, Sam H., Columbus, Ga. Casting fish reel with level winding mechanism. 2,610,809, Sept. 16.

Brewer, Gene L., Washington, D. C. Electronic diplex keyer. 2,611,034, Sept. 16.

Brieghel-Müller, Arne V., Gentofte, assignor to Aktieselskabet De Danske Sukkerfabrikker, Copenhagen, Denmark. Defecating process and apparatus. 2,610,929, Sept. 16.

Briscoe, Robert G., Sulphur, Okla. Mechanical refrigerating apparatus. 2,610,480, Sept. 16.

Brister, Paul M., Madison, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y. Liquid recovery apparatus. 2,610,986, Sept. 16.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Fonseca, Evelyn C. M. D., and Green.

British Celanese Limited, assignee: *See*—
Mann, Ralph J., and Biedawski.

Brodhun, John H., Birmingham, assignor to The Gear Grinding Machine Company, Hamtramck, Mich. Snap-action valve. 2,610,649, Sept. 16.

Bromagem, Irl R., assignor to Union City Body Company, Inc., Union City, Ind. Uplift type theater chair. 2,610,668, Sept. 16.

Bromagem, Irl R., assignor to Union City Body Company, Inc., Union City, Ind. Theater chair back mounting construction. 2,610,669, Sept. 16.

Brooks, E. J., Company, assignee: *See*—
Brooks, Winfred M.

Brooks, Winfred M., West Orange, assignor to E. J. Brooks Company, Newark, N. J. Seal. 2,610,878, Sept. 16.

Bros, Chester W., A. O. Williamson, and U. O. Guignard, assignors to Wm. Bros. Boiler and Manufacturing Company, Minneapolis, Minn. Pneumatic roller compactor. 2,610,557, Sept. 16.

Brough, James R., assignor to Melpar, Inc., Alexandria, Va. Indoor television antenna. 2,611,080, Sept. 16.

Brower, William P., Glen Rock, and W. I. Gadkowski, Irvington, N. J. Vehicular parking installation. 2,610,364, Sept. 16.

Brown and Sharpe Manufacturing Company, assignee: *See*—
Maglott, George F.

Brunetti, Cledo, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of War. Nonplanar printed circuits and structural unit. 2,611,040, Sept. 16.

Bryant Electric Company, The, assignee: *See*—
Webster, Benjamin C.

Bryant, Ray W., assignor to Air Hydraulics, Inc., Jackson, Mich. Air operated impact press. 2,610,613, Sept. 16.

Bugg, Kenly C., Fort Wayne, Ind. Fastener. 2,610,379, Sept. 16.

Buggie, H. H., & Company, assignee: *See*—
Sprigg, Edward A.

Bull Dog Electric Products Company, assignee: *See*—
Platz, Elwood T., and Davis.

Bungay, George W., assignor to Electrographic Corporation, New York, N. Y. Power saw for cylindrical printing plates. 2,610,389, Sept. 16.

Burdick, John S., North Muskegon, assignor to The Shaw-Walker Company, Muskegon, Mich. Back rest for chairs. 2,610,671, Sept. 16.

Burgesser, Leslie D., Chicago, Ill., assignor to Wells, Inc. Actuated Christmas tree ornament. 2,611,014, Sept. 16.

Burke, Donald J., Kenmore, assignor of one-fifth to A. M. Whitmer, Fredonia, N. Y. Duplicating device. 2,610,580, Sept. 16.

Burnett, Robert E., Schenectady, N. Y., assignor to General Electric Company. Stabilization of thixotropic compositions comprising polyesters with quinone. 2,610,961, Sept. 16.

Burrows, Milford D.: *See*—
Goldberg, Harry, and Burrows.

Butler, Earl K: *See*—
Purcell, Howard F., and Butler.

Butterfield, John P., Grosse Pointe Woods, assignor to Chrysler Corporation, Highland Park, Mich. Engine. 2,610,615, Sept. 16.

C-O-Two Fire Equipment Company, assignee: *See*—
Allen, Frank B.

Cade, Phillip J., Winchester, and B. E. Shaw, East Boxford, Mass., assignors to Photoswitch Marine Division, Inc., New York, N. Y. Temperature-compensating conductivity cell. 2,611,007, Sept. 16.

Cade, Phillip J., Winchester, and D. J. MacDougall, Framingham, Mass., assignors to Photoswitch Marine Division, Inc., New York, N. Y. Electrolyte indicating and control apparatus. 2,611,113, Sept. 16.

Calder, Caesar A., Verona, N. J. Rail for transporting hangers or carriages and switches therefor. 2,610,584, Sept. 16.

Calder, Caesar A., Verona, N. J. Shirt folding device. 2,610,771, Sept. 16.

Calder, Caesar A., Verona, N. J. Shirt collar support. 2,610,774, Sept. 16.

Calhoun, Verna E., Seattle, Wash. Receptacle for lipstick holders and lipsticks. 2,610,732, Sept. 16.

Calicchio, David J., Boston, Mass. Ligator. 2,610,631, Sept. 16.

Callendo, Thomas A., South Ozone Park, N. Y. Pipe reaming and burring attachment for pipes. 2,610,530, Sept. 16.

California Reinforced Plastics Company, assignee: *See*—
Steele, Roger C.

California Research Corporation, assignee: *See*—
Morrisroe, John J.

Calloway Mills Company, assignee: *See*—
Parker, Samuel P.

Calumet & Hecla Consolidated Copper Company, assignee: *See*—
Hill, Walter P.

Campbell, Frank H., Pasadena, Calif. Ski binding. 2,610,861, Sept. 16.

Campbell, Paul J., Berlin, assignor, by mesne assignments, to Raymond Engineering Laboratory, Inc., Middletown, Conn. Apparatus for regulating yarn tension. 2,610,813, Sept. 16.

Campbell, Tod W., Orinda, and G. M. Coppinger, El Cerrito, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Synthesis of organic peroxides. 2,610,972, Sept. 16.

Cantrell, Orel L., Topeka, Kans. Trailer for boats and the like. 2,610,865, Sept. 16.

Card, Kenneth F., Canova Park, assignor of one-third to J. L. Austin, Los Angeles, and one-third to G. F. Smyth, Inglewood, Calif. Game device simulating a western rodeo. 2,610,854, Sept. 16.

Carew, Herman, assignor to Dixie Cup Company, Easton, Pa. Holder for paper cups. 2,610,491, Sept. 16.

Carew, Herman, Easton, Pa., assignor to Dixie Cup Company, Chicago, Ill. Holder for paper cups. 2,610,492, Sept. 16.

Carey, Philip, Manufacturing Company, The, assignee: *See*—
Greider, Harold W., and Fasold.

Cargill, Don A., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Automatic milling cutter grinder. 2,610,449, Sept. 16.

Carlisle, Willis C., and J. H. McCarvell, assignors to Macco Oil Tool Company, Houston, Tex. Resilient damping of pressure bellows. 2,610,644, Sept. 16.

Carlson, Arthur E., Hingham, Mass. Reinforced paper article. 2,610,936, Sept. 16.

Carlson, Axel S., New York, N. Y. Ground vase. 2,610,443, Sept. 16.

Carlson, Axel S., New York, N. Y. Boundary marker. 2,610,502, Sept. 16.

Carlson, Eric, assignor to Aktiebolaget Atlas Diesel, Sickla, near Stockholm, Sweden. Internal-combustion engine driven compressor unit. 2,610,785, Sept. 16.

Carlston, Hamilton S., and H. E. Morrow, Fresno, Calif. Window and ventilator actuator and lock. 2,610,848, Sept. 16.

Carnoy Products Corporation, assignee: *See*—
Seaberg, Ernest E.

Caroland, Horace G., Hobart, Okla. Fishing rod. 2,610,427, Sept. 16.

Carpenter, Paul W., Fort Worth, Tex. Closure and fastener for threaded containers. 2,610,762, Sept. 16.

Carpenter, Rupert E. H., South Croydon, England. Electromagnetic relay. 2,611,063, Sept. 16.

Case, J. I., Company, assignee: *See*—
Beck, Henry E., Jozwik, and Innes.
Jozwik, John C.

Caselini, Ezio T., assignor to Sylvania Electric Products Inc., Salem, Mass. Electric discharge tube. 2,611,109, Sept. 16.

Cassidy, Millard M., Pasadena, and H. L. B. Nawry, Houston, Tex., assignors to American Rice Growers Cooperative Association, Lake Charles, La. Treating rice bran and rice polish. 2,610,914, Sept. 16.

Celanese Corporation of America, assignee: *See*—
Stanley, William E., and Edwards.

Central Mine Equipment Company, assignee: *See*—
Huckshold, Elmer J.

Chambers, Lawrence N., Davenport, Iowa. Pistol sight. 2,610,406, Sept. 16.

Chance, A. B., Company, assignee: *See*—
Hubbard, David C.

Chandler, Edward F., Brooklyn, N. Y. Oil burner. 2,610,673, Sept. 16.

Chandler, Irving R., Brooklyn, N. Y., assignor to General Electric Company. Control for electrical cooking appliances. 2,611,070, Sept. 16.

Chapman, James E., assignor to The Garrett Corporation, Los Angeles, Calif. Mechanical clutch. 2,610,718, Sept. 16.

Charbeneau, Clarence A., Mount Clemens, Mich. Haircutting comb. 2,610,392, Sept. 16.

Chase, Charles R., Morrisville, and G. L. Bliss, Yardley, Pa., assignors to United States Steel Company. Method and apparatus for coating wire with lime. 2,610,926, Sept. 16.

Chatham Electronics Corporation, assignee: *See*—
Bosch, Carl, and Shamos.

Chemical Corporation, The, assignee: *See*—
Gardner, Bryant H., and Yardley.

Cherry-Burrell Corporation, assignee: *See*—
Dalzell, Charles B.

Chiksan Company, assignee: *See*—
Parmesan, Daniel J.

Child, Lachlan W., Detroit, assignor to Evans Products Company, Plymouth, Mich. Vehicle heating apparatus. 2,610,798, Sept. 16.

Chisholm, Robert D., Morrestown, and W. C. Fest, Rancocas Heights, N. J., dedicated to the free use of the people in the territory of the United States. Insecticide disperser. 2,610,433, Sept. 16.

Chovenec, Paul, Detroit, Mich. Refrigerator display cabinet. 2,610,473, Sept. 16.

Chrysler Corporation, assignee: *See*—
Butterfield, John P.

Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Molding fastener. 2,610,375, Sept. 16.

Cincinnati Industries, Inc., assignee: *See*—
Rowe, William W.

Clarke, Edgar W., Laurel Springs, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa. Solvent fractionation of wax-containing mixtures. 2,610,943, Sept. 16.

Clarke, James S., East Orange, N. J., assignor to Standard Oil Development Company. Rotating plate mixing device. 2,610,836, Sept. 16.

Clayton, William G., La Crosse, Wis. Work holder attachment for easels. 2,610,558, Sept. 16.

Cleland, James E., Granite City, Ill., assignor to Union Starch & Refining Company, Columbus, Ind. Noncrystallizing corn sugar process. 2,610,930, Sept. 16.

Clemensen, Niels E., New York, N. Y. Drinking vessel. 2,610,489, Sept. 16.

Clements Mfg. Co., assignee: *See*—
Thornwald, Everett D.

Climax Molybdenum Company, assignee: *See*—
Cuthbertson, Robert E.

Cline, Edward T., Wilmington, Del., P. S. Pinkney, Niagara Falls, N. Y., and L. Plambeck, Jr., and H. B. Stevenson, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Water-resistant polyvinyl alcohol filament and producing same. 2,610,360, Sept. 16.

Coan, Richard L., Cleveland, Ohio, assignor to United States Steel Company. Automatic chuck. 2,610,860, Sept. 16.

Cochran, Clarence W., Belmont, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Panel mounted lamp socket. 2,611,000, Sept. 16.

Coggin, Gray, Roswell, N. Mex. Burner mechanism. 2,610,622, Sept. 16.

Collins & Aikman Corporation, assignee: *See*— Bird, Whitworth F.

Collins, Howard W., Newark, and T. E. Philipps, Granville, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Gas and liquid contact pad. 2,610,893, Sept. 16.

Colorado Iron Works Company, assignee: *See*— Bitzer, Edmund C.

Columbia Boiler Company, assignee: *See*— Hauck, John N.

Colvin, John R., III, Philadelphia, Pa. Safety attachment for smokers. 2,610,636, Sept. 16.

Colvin, Nolan D.: *See*— Coultas, Wilbur J., Colvin, and Palmer.

Commercial Shearing & Stamping Co., The, assignee: *See*— White, Thomas L.

Compagnie des Machines Bull (Societe Anonyme), assignee: *See*— Knutsen, Knut A.

Compton, Clarence R., Littleton, Colo. Three-dimensional pantographic reproducing machine. 2,610,404, Sept. 16.

Compule Corporation, The, assignee: *See*— Lockhart, Marshall L.

Conkwright, L. M., assignee: *See*— Atkinson, William H.

Connova, Frank J.: *See*— Simmons, Lillian P., and Connova.

Conway, Howard F.: *See*— Montgomery, Edna M., Conway, and Weakley.

Cook, Frank E., Runnemeda, N. J., assignor to Radio Corporation of America. Portable phonograph. 2,610,857, Sept. 16.

Cook, George W.: *See*— Perls, Thomas A., and Cook.

Cooper, James B., and A. B. Jepson, Seattle, Wash., assignors to Boeing Airplane Company. Ratio control for pressure cabins. 2,610,564, Sept. 16.

Cooper, William H. B., Middlesex, England. Communication system line fault locating. 2,611,041, Sept. 16.

Copold, Milburn C.: *See*— Gayner, Raymond D., Wood, and Copold.

Coppinger, Galvin M.: *See*— Campbell, Tod W., and Coppinger.

Corning Glass Works, assignee: *See*— Frazier, John F.

Costner, Jack C.: *See*— Robinson, Elvin B., and Costner.

Coultas, Wilbur J., and N. D. Colvin, Moline, and W. B. Palmer, Rock Island, assignors to Deere & Company, Moline, Ill. Hitch for implements and vehicles. 2,610,560, Sept. 16.

Courtright, Harry C.: *See*— Steinman, Robert, and Courtright.

Cousineau, John B., Forest Park, Ill. Stringed musical instrument. 2,610,536, Sept. 16.

Cousins, Richard J. W.: *See*— Fell, Louis F. R., and Cousins.

Cowan, John C.: *See*— Evans, Cyril D., Schwab, and Cowan.

Craigo, John M., East Hartford, Conn. Denture making appliance. 2,610,402, Sept. 16.

Crain, Robert L., assignor to Gray Tool Company, Houston, Tex. Rotary swivel. 2,610,828, Sept. 16.

Cramer, Clifford H.: *See*— Wells, Philip H., and Cramer.

Crane Packing Company, assignee: *See*— Payne, Frank E.
White, Fred L.

Crawford, Arthur N., Baker, Oreg. Joint lock mechanism for digging cap of excavating tooth assemblies. 2,610,416, Sept. 16.

Crawford, Arthur N., Hermosa Beach, Calif. Locking device for removable points for earth-working tooth units. 2,610,417, Sept. 16.

Crew, Beatrice L., Compton, Calif. Surgical apparatus. 2,610,630, Sept. 16.

Crockett, Elmer F., Lowell, Mass. Semitrailer construction. 2,610,891, Sept. 16.

Crooker, Robert M.: *See*— Fyler, George W., and Crooker.

Cross, Walter M., Jr., assignor to Kansas City Testing Laboratory, Kansas City, Mo. Pipeline transportation of soluble granular materials. 2,610,899, Sept. 16.

Cross, Walter M., Jr., assignor to Kansas City Testing Laboratory, Kansas City, Mo. Pipeline transportation of solid materials and petroleum products. 2,610,900, Sept. 16.

Cross, Walter M., Jr., assignor to Kansas City Testing Laboratory, Kansas City, Mo. Pipeline transportation of solid materials. 2,610,901, Sept. 16.

Crown Zellerbach Corporation, assignee: *See*— Hearon, William M., and Jones.

Cuthbertson, Robert E., Denver, Colo., assignor to Climax Molybdenum Company, New York, N. Y. Froth flotation of monazite from heavy gravity minerals. 2,610,738, Sept. 16.

Cuttino, William H., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker control system. 2,611,009, Sept. 16.

Cypress Novelty Corporation, assignee: *See*— Krieg, Anthony W., and Mayer.

Dague, Ralph R., Tuscola, Ill. Portable floor hoist. 2,610,744, Sept. 16.

Daly, Le Grand, Birmingham, Mich. Helmet. 2,610,322, Sept. 16.

Dalzell, Charles B., Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Wilmington, Del. Plate type heat exchanger. 2,610,834, Sept. 16.

Daniel, Donald E.: *See*— Wilcox, Warren, and Daniel.

Dasey, Homer H., New Kensington, assignor to Visual Planning Equipment Co., Inc., Oakmont, Pa. Model layout repro-templet method. 2,610,413, Sept. 16.

Daul, George C., and J. D. Reid, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Polyvinyl phosphoric acid esters of cellulose and making the same. 2,610,953, Sept. 16.

D'Aurora, Patsy T., Erie, Pa. Glass washing machine. 2,610,642, Sept. 16.

Davidson, Donald E., Los Angeles County, Calif. Eyepiece mounting means. 2,610,545, Sept. 16.

Davis, Hugh H., assignor to J. P. Seeburg Corporation, Chicago, Ill. Magnetic recording apparatus. 2,610,808, Sept. 16.

Davis, Philip B., Greenland, N. H. Ventilating and heating system. 2,610,567, Sept. 16.

Davis, Russell S.: *See*— Platz, Elwood T., and Davis.

Dayton Pump & Manufacturing Company, The, assignee: *See*— Purcell, Howard F., and Butler.

De Boer, Kornelis, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Stereophonic reproduction apparatus. 2,610,694, Sept. 16.

Deere & Company, assignee: *See*— Beldin, Royal L.
Coultas, Wilbur J., Colvin, and Palmer.
Gehler, William P., and Youngberg.
Strandlund, Carl G.
White, Charles H.

Deering, Edna L., assignee: *See*— Deering, Thomas J.

Deering, Thomas J., Cincinnati, Ohio, assignor of forty per cent to C. P. Huesgen, ten per cent to G. E. Huesgen, Grosse Point Farms, Mich., and ten per cent to E. L. Deering, Cincinnati, Ohio. Casement window mounted air conditioner. 2,610,483, Sept. 16.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation. Derivatives of certain oxyalkylated phenol-aldehyde resins useful in coating compositions. 2,610,955, Sept. 16.

De Laval Separator Company, The, assignee: *See*— Eakin, Keith H.

Delmhorst, William J., Boonton, N. J. Electrode assembly for moisture meters. 2,611,006, Sept. 16.

De Napoli, Anthony C., Jr., Windsor, assignor to The Soundscriber Corporation, New Haven, Conn. Dictating machine with combined hand microphone and control means. 2,611,037, Sept. 16.

De Napoli, Anthony C., Jr., Windsor, assignor to The Soundscriber Corporation, New Haven, Conn. Combined hand microphone and control means. 2,611,042, Sept. 16.

Deprez, Charles, Uccle-Brussels and A. Basilewsky, Bortsfort-Brussels, assignors to Solvay & Cie, Ixelles-Brussels, Belgium. Process of and apparatus for producing caustic solutions of high concentration. 2,610,908, Sept. 16.

Derksen, Jan C., and F. M. Jacobs, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Mixing polyethylene with asphalt bitumens. 2,610,956, Sept. 16.

Detroit Macoid Corporation, assignee: *See*— Bradley, Stephen D.

De Wees, Charles V., Merchantville, assignor to U. S. Gas Generator Corp., Haddonfield, N. J. Gas-liquid admixing apparatus. 2,610,839, Sept. 16.

Dicke, Robert H., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Doppler radar system. 2,611,125, Sept. 16.

Dickinson, John T., Seattle, Wash. Light collecting front sight for firearms. 2,610,405, Sept. 16.

Dickinson, Robert C.: *See*— Frink, Russell E., and Dickinson.

Diem, Hans, assignor to Edouard Dubied & Cie. (Societe Anonyme), Neuchatel, Switzerland. Fabric take-up device on straight-bar knitting machines. 2,610,495, Sept. 16.

Dilg, Walter C., Hewlett, and G. R. Munro, Harbor Green, assignors to Waugh Equipment Company, New York, N. Y. Coupler and yoke constructions. 2,610,745, Sept. 16.

Dilley, Mary, assignee: *See*— Betts, William W.

Dixie Cup Company, assignee: *See*— Carew, Herman.

Doak, Kenneth W., Nutley, N. J., and K. E. Wilzbach, Chicago, Ill., assignors to United States Rubber Company, New York, N. Y. Fiber-forming copolymers of 1,3-butadienes with dialkyl methylenemalonates. 2,610,963, Sept. 16.

Dorsey, Carl K., Webster Groves, Mo. Rotary oven assembly. 2,610,592, Sept. 16.

Dow Chemical Company, The, assignee: *See*— Smyers, William H., and Young.

Dowd, Bernard J., Fitzroy, near Melbourne, Victoria, Australia. Control panel for foundation garments. 2,610,324, Sept. 16.

Downe, Edward R., assignor to The C. A. Olsen Manufacturing Company, Elyria, Ohio. Flame retaining atmospheric gas burner. 2,610,675, Sept. 16.

Draper Corporation, assignee: *See*— Peterson, Fritz B.

Dreese, George A., New Lexington, assignor of nineteen per cent to T. H. Boyle, New Straitsville, fifteen per cent to R. E. Fisher, New Lexington, and fifteen per cent to W. R. Jones, Columbus, Ohio. Armature winder. 2,610,804, Sept. 16.

Dubled, Edouard, & Cie. (Societe Anonyme), assignee: *See*— Diem, Hans.

Dudley, Edmond R., Jr., Santa Clara, Calif. Peach half orientor. 2,610,724, Sept. 16.

Duesberg-Basson of America, Inc., assignee: *See*— Duesberg, Hubert G., and Potter.

Duesberg, Hubert G., Leominster, and C. A. Potter, Templeton, assignors to Duesberg-Basson of America, Inc., Fitchburg, Mass. Varying the count of roving in carding machines. 2,610,361, Sept. 16.

Duffin, George F.: *See*— Kendall, John D., and Duffin.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*— Nadir, Mark.

Duncan, Robert K., Woodburn, Ind., assignor to Radio Corporation of America. Noise-canceling microphone. 2,611,035, Sept. 16.

Dunlap, Ollen L., Long Beach, Calif. Motion converter. 2,610,510, Sept. 16.

Dunn, Ralph L., Neptune, N. J., assignor to the United States of America as represented by the Secretary of the Army. Sound ranging computer. 2,611,023, Sept. 16.

Dunning, Ranald G., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Ammonium sulfate recovery. 2,610,906, Sept. 16.

Du Pont, E. I., de Nemours & Company, assignee: *See*— Cline, Edward T., Pinkney, Plambeck, and Stevenson.
Hatchard, William R., and Hill.
Lathrop, Robert P.
Naylor, Marcus A., Jr.

Dynamatic Corporation, assignee: *See*— Hayes, Charles T.

Eagle Manufacturing Company, assignee: *See*— Vote, Harold W.

Eakin, Keith H., Park Forest, Ill., assignor to The De Laval Separator Company, New York, N. Y. Clarification of sugar cane juice. 2,610,932, Sept. 16.

Eckel, John E., assignor to Oil Center Tool Company, Houston, Tex. Well head seal. 2,610,689, Sept. 16.

Eckert, George W., Glenham, assignor to The Texas Company, New York, N. Y. Lithium soap grease containing basic alkaline earth metal sulfonate. 2,610,946, Sept. 16.

Eddlshaw, John E., Atlantic City, N. J. Truss. 2,610,623, Sept. 16.

Eder, Theodor, Vienna, Austria. Process of and apparatus for strictly limited separation of mixtures by the speed of fall in liquid media. 2,610,737, Sept. 16.

Ederer, Lothar A., assignor to R. J. Ederer Company, Chicago, Ill. Game net and making the same. 2,610,852, Sept. 16.

Ederer, R. J., Company, assignee: *See*— Ederer, Lothar A.

Edge, Nelson J., assignee: *See*— Jansen, Charles.

Edmiston, Edmund E., assignee: *See*— Miller, Edgar H.

Edward Valves Incorporated, assignee: *See*— Markel, Michael A., and MacGregor.

Edwards, Cyril H.: *See*— Stanley, William E., and Edwards.

Edwards, Frank, San Francisco, Calif. Signaling device. 2,610,604, Sept. 16.

Edwards, James M., assignor of one-third to B. B. Wright, Wink, Tex. Circumferentially traveling tire bead prying tool. 2,610,672, Sept. 16.

Edwards, John D., Seattle, Wash. Syringe. 2,610,626, Sept. 16.

Edwards, Miles L., Longview, Wash. Gas and liquids separator. 2,610,788, Sept. 16.

Ehrlich, Joseph R., New York, N. Y. Transfer ink. 2,610,921, Sept. 16.

Eichelberger, Albert: *See*— Kreft, Ewald, and Eichelberger.

Electro Craft Incorporated, assignee: *See*— Schonert, Koester E.

Electrographic Corporation, assignee: *See*— Bungay, George W.

Elgin Softener Corporation, assignee: *See*— Mansen, Harry.

Elliott, William S., Borehamwood, England. Digital calculating machine. 2,610,790, Sept. 16.

Emerson, David, assignor to Olin Industries, Inc., New Haven, Conn. Takedown mechanism for firearms. 2,610,426, Sept. 16.

Emerson, John F., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Electronic voltage regulator. 2,611,121, Sept. 16.

Enderle, Herman, and J. F. Vojak, Chicago, Ill. Removing olives and the like from containers. 2,610,884, Sept. 16.

Endicott, James L., assignor to Gaspray Corp., New York, N. Y. Low pressure propelled insecticidal aerosol composition. 2,610,940, Sept. 16.

Englander Company, Inc., The, assignee: *See*— Pillero, James.

English, Mark A., San Gabriel, and R. O. Borst, Pasadena, Calif.; said Borst assignor to said English. Hoisting mechanism. 2,610,743, Sept. 16.

Epstein, Henry, Brooklyn, assignor of one-third to M. E. Epstein and one-third to M. M. Epstein, New York, N. Y. Packages for twine, rope, and the like. 2,610,812, Sept. 16.

Epstein, Mandel E., assignee: *See*— Epstein, Henry.

Epstein, Morton M., assignee: *See*— Epstein, Henry.

Eskin, Samuel G., and H. W. Rice, Los Angeles, Calif., assignors to Robertshaw-Fulton Controls Company. Temperature control device. 2,610,678, Sept. 16.

Esposito, Vito, Haddon Heights, assignor to R. M. Hollingshead Corporation, Camden, N. J. Treating tall oil with alkylene oxides. 2,610,966, Sept. 16.

Evans, Cyril D., A. W. Schwab, and J. C. Cowan, Peoria, Ill., assignors to United States of America as represented by the Secretary of Agriculture. Stabilization of glyceride oils. 2,610,973, Sept. 16.

Evans Products Company, assignee: *See*— Child, Lachlan W.

Ewart, Roswell H., Bloomfield, and W. V. Smith, Nutley, N. J., assignors to United States Rubber Company, New York, N. Y. Copolymerization of 1,3-butadienes with dialkyl methylenemalonates. 2,610,964, Sept. 16.

Exact Weight Scale Company, The, assignee: *See*— Schieser, Warren J., and Kelley.

Fagg, Lee, Corsicana, Tex., assignor, by mesne assignments, to Bethlehem Supply Company. Rotary swivel. 2,610,827, Sept. 16.

Farm Tools, Inc., assignee: *See*— Pelouch, James J.

Farr, Edward A., Columbus, Ind., assignor to Arvin Industries, Inc. Cooking appliance. 2,610,572, Sept. 16.

Fasold, George A.: *See*— Greider, Harold W., and Fasold.

Faulkner, Richard D., and W. A. Bentley, Lancaster, Pa., assignors to Radio Corporation of America. Temperature-compensated target assembly for color-kinescopes, etc. 2,611,100, Sept. 16.

Federal Mogul Corporation, assignee: *See*— Gorton, Paul T.

Fehlberg, Harold F.: *See*— Watt, Naomi L., and Fehlberg.

Feigal, Richard S., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electrical timing apparatus. 2,611,011, Sept. 16.

Fell Developments Limited, assignee: *See*— Fell, Louis F. R., and Cousins.

Fell, Louis F. R., Littleover, and R. J. W. Cousins, Shoreham-by-Sea, assignors to Fell Developments Limited, London, England. Transmission gearing. 2,610,526, Sept. 16.

Felsenthal, Harry D.: *See*— Rockwood, Alan C., and Felsenthal.

Ferguson, Kenneth C., assignor to Inland Container Corporation, Indianapolis, Ind. Multiple centering support. 2,610,735, Sept. 16.

Feat, William C.: *See*— Chisholm, Robert D., and Feat.

Field, Crosby, assignor to Flakice Corporation, Brooklyn, N. Y. Congelation and apparatus for use in connection therewith. 2,610,474, Sept. 16.

Field, Crosby, assignor to Flakice Corporation, Brooklyn, N. Y. Congelation and apparatus for use in connection therewith. 2,610,475, Sept. 16.

Field, Crosby, assignor to Flakice Corporation, Brooklyn, N. Y. Congelation and apparatus for use in connection therewith. 2,610,476, Sept. 16.

Field, Crosby, and E. C. Stover, assignors to Flakice Corporation, Brooklyn, N. Y. Congelation and apparatus for use in connection therewith. 2,610,477, Sept. 16.

Field, John J., Pocatello, Idaho. Combination crib and playpen. 2,610,332, Sept. 16.

Firman, Reginald A., Weybridge, assignor to Vickers-Armstrongs Limited, London, England. Bomb slip and analogous releasable attachment. 2,610,887, Sept. 16.

Fischer, Karl A., Washington, D. C., and O. F. Hecht, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Army. Recovery of liquid fuel from solidified fuel. 2,610,952, Sept. 16.

Fisher, Jacob I., and G. C. Borden, Jr., Easton, Pa., assignors to Riegel Paper Corporation, New York, N. Y. Laminating glassine paper. 2,610,939, Sept. 16.

Fisher, Martin H., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Core type reel drive. 2,611,114, Sept. 16.

Fisher, Rodney E., assignee: *See*— Dreese, George A.

Fitzpatrick, Karl W.: *See*— Aske, Irving E., and Fitzpatrick.

Flakice Corporation, assignee: *See*— Field, Crosby. Field, Crosby, and Stover.

Flament, Maurice, Lille, France. Expanding folder and manufacturing same. 2,610,868, Sept. 16.

Fleischer, Svend S. C., Charlottenlund, Denmark. Method of and device for ensuring the proper order of threads isolated from a sheet of warp threads. 2,610,382, Sept. 16.

Fleischmann, Lester K., Highland Park, and B. A. Schroeder, Winnetka, Ill., assignors to Standard Manifold Company. Stationery carrier. 2,610,723, Sept. 16.

Fleming, Wilfred, Pontiac, Mich. Plumber's utility chest and pipe bench. 2,610,761, Sept. 16.

Flight Refuelling Limited, assignee: *See*— Allison, Percy R.

Fonseca, Evelyn C. M. D., and S. Green, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Ammunition supply system for automatic firearms. 2,610,549, Sept. 16.

Foulds, Robinson P., assignor to Tootal Broadhurst Lee Company Limited, Manchester, England. Treatment of fibrous materials with polyamides. 2,610,927, Sept. 16.

Fouse, Frederick Z., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Hermetic sealing machine with vacuum control means. 2,610,779, Sept. 16.

Fox, Brenner B., San Antonio, Tex. Correcting spring aligning spacer ring. 2,610,847, Sept. 16.

Franklin, Lester K., Los Angeles, Calif. Self-cleaning comb. 2,610,638, Sept. 16.

Frazier, John F., assignor to Corning Glass Works, Corning, N. Y. Electric appliance and stand assembly therefor. 2,611,069, Sept. 16.

Freeman, Andrew L., Grand Forks, N. Dak. Electric heat bolt beater for internal-combustion engines. 2,611,066, Sept. 16.

Freeman, Donald A., Kalamazoo, Mich. Guard for receptacle covers. 2,610,765, Sept. 16.

Freight Handling Corporation, assignee: *See*— Bevan, George.

Frese, Joseph F., assignor to The Monitor Controller Company, Baltimore, Md. Circuit controlling apparatus. 2,611,060, Sept. 16.

Frey, Irvin, assignee: *See*— Baumbach, Richard C.

Friedman, Samuel, Brooklyn, N. Y. Interchangeable or reversible earring. 2,610,487, Sept. 16.

Friend, Albert W., Princeton, N. J., assignor to Radio Corporation of America. Beam alignment device. 2,611,003, Sept. 16.

Frink, Russell E., and R. C. Dickinson, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manufacturing spaced plate arc extinguishers. 2,610,937, Sept. 16.

Fuentes, Gabriel P., Bronx, N. Y. Combined comb and brush. 2,610,637, Sept. 16.

Fuller, Stuart L., Royal Oak, Mich. Vehicle turn indicating switch. 2,611,046, Sept. 16.

Fyler, George W., Lombard, and R. M. Crooker, assignors to Motorola, Inc., Chicago, Ill. Television sweep system. 2,611,106, Sept. 16.

Gadkowski, Walter I.: *See*— Brower, William P., and Gadkowski.

Gaffer, Edward J.: *See*— Gaffer, Martin A., and E. J.

Gaffer, Martin A., Goshen, and E. J., Fort Wayne, Ind. Brush holder and guide. 2,610,344, Sept. 16.

Gagnebin, Albert P.: *See*— Millis, Keith D., Gagnebin, and Pilling.

Gallo, Salvatore G., Roselle, N. J., assignor to Standard Oil Development Company. Recovery of alcohols from hydrocarbon oils. 2,610,977, Sept. 16.

Galloway, William S., assignor to Mavor & Coulson, Limited, Glasgow, Scotland. Machine for mining coal. 2,610,840, Sept. 16.

Gardiner, Thomas R., Piedmont, Calif. Anchor. 2,610,601, Sept. 16.

Gardner, Bryant H., Granby, Mass., and F. W. Yardley, Simsbury, Conn., assignors to The Chemical Corporation, Springfield, Mass. Soap paste dispensing apparatus. 2,610,767, Sept. 16.

Garner, Joshua, Englewood, N. J. Dandruff removing appliance. 2,610,352, Sept. 16.

Garrett Corporation, The, assignee: *See*— Chapman, James E. Jensen, Raymond W.

Gaspray Corp., assignee: *See*— Endicott, James L.

Gayner, Raymond D., Sherman Oaks, T. C. Wood, Inglewood, Calif., and M. C. Copold, Roselle, N. J., assignors to North American Aviation, Inc. Latch mechanism. 2,610,880, Sept. 16.

Gazda, Antoine, Providence, R. I. Self-canceling directional signal switch for motor vehicles. 2,611,043, Sept. 16.

Gear Grinding Machine Company, The, assignee: *See*— Brodbun, John H.

Geldhof, Peter E., and L. Ringer, St. Joseph, Mich., assignors to Whirlpool Corporation. Laundering machine. 2,610,498, Sept. 16.

Gemex Company, assignee: *See*— Prestinari, Eugen.

General Aniline & Film Corporation, assignee: *See*— Schenck, Leslie M.

General Electric Company, assignee: *See*— Burnett, Robert E. Chandler, Irving R. Howard, Alan. Jankowski, Herman. Knowlton, Paul H. Nordlander, Birger W. Nordlander, Birger W., and Loritsch. Norgaard, Donald E. Slonneger, John L. Snow, Barton H. Stark, Julian H. Steenstrup, Christian. Valentin, André. Valentine, Frank E. Woodson, Thomas T.

General Motors Corporation, assignee: *See*— Barcus, Edward L. Cargill, Don A. Holmes, John R., and Schwarz. Hope, Lawrence F. Lamos, Albert, Jr.

General Precision Laboratory Incorporated, assignee: *See*— Hales, Everett B.

General Time Corporation, assignee: *See*— Beiser, Elmer H.

Geophysical Exploration Company, assignee: *See*— Brant, Arthur A., and Gilbert.

Gilbert, A. C., Company, The, assignee: *See*— Smith, William R.

Gilbert, Everett A.: *See*— Brant, Arthur A., and Gilbert.

Gilbert, Harold H., San Carlos, Calif. Bascule bridge lock. 2,610,341, Sept. 16.

Gits, Joseph A., assignor of one-half to J. P. Gits, Chicago, Ill. Nursing unit. 2,610,755, Sept. 16.

Gits, Jules P., assignee: *See*— Gits, Joseph A.

Glaser, Donald M., Lafayette, La. Marine plow. 2,610,415, Sept. 16.

Goedeke, Ann, administratrix: *See*— Goedeke, William J., and Hartman.

Goedeke, William J., deceased, Trenton, N. J., by A. Goedeke, administratrix, Trenton, N. J., and W. L. Hartman, Miami, Fla. Push-button control for the operation of automobiles. 2,610,518, Sept. 16.

Goetz, Carlos C., New York, N. Y. Dispensing container having an absorbing layer for dispensing by capillary action. 2,610,769, Sept. 16.

Goff, John W., St. Paul, Minn. Apparatus for injection of liquid medicine into drinking water in a conduit. 2,610,643, Sept. 16.

Goggio, Ernest C.: *See*— Ralston, George, and Goggio.

Goldberg, Harry, and M. D. Burrows, assignors to Pioneer Gen-E-Motor Corporation, Chicago, Ill. Air cleaner for internal-combustion engines. 2,610,701, Sept. 16.

Goldfield, Edwin R., University Heights, and E. B. Graves, South Euclid, assignors to Picker X-ray Corporation, Waite Maunfacturing Division, Inc., Cleveland, Ohio. Shockproof head for X-ray apparatus. 2,611,095, Sept. 16.

Golding, Cleo J.: *See*— Hutchins, Francis E., and Golding.

Goodman Manufacturing Company, assignee: *See*— Moulton, Robert, and Stover.

Gorton, Paul T., Grosse Pointe, assignor to Federal Mogul Corporation, Detroit, Mich. Tool for assembling and disassembling connecting rods and their bearings. 2,610,391, Sept. 16.

Göthberg, Karl E. A., assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden. Oil mist lubricator. 2,610,700, Sept. 16.

Graham & Allen, assignee: *See*— Graham, George C.

Graham, George C., assignor, by mesne assignments, to Graham & Allen, Ridgewood, N. J. Washing machine. 2,610,497, Sept. 16.

Graham, George K., Oceanside, N. Y., assignor to Radio Corporation of America. Sound recorder with sound-controlled stylus feed. 2,611,038, Sept. 16.

Gratian, Joseph W., Rochester, N. Y., assignor to Stromberg-Carlson Company. Electronic wave chopping circuits. 2,611,084, Sept. 16.

Graves, Edward B.: *See*— Goldfield, Edwin R., and Graves.

Graves, Roy R., Valparaiso, Ind., assignor to The Graves-Stambaugh Corporation. Milking barn. 2,610,608, Sept. 16.

Graves-Stambaugh Corporation, The, assignee: *See*— Graves, Roy R.

Gray Tool Company, assignee: *See*— Crain, Robert L.

Green, Donald W., trustee, assignee: *See*— McGill, Daniel F.

Green, Spencer: *See*— Fonseca, Evelyn C. M. D., and Green.

Greider, Harold W., Wyoming, and G. A. Fasold, Mount Healthy, Ohio, assignors to The Philip Carey Manufacturing Company. Mineralized bituminous roofing. 2,610,928, Sept. 16.

Grier, Verlee P., assignor of one-fourth to H. G. Stowe, Belmont, N. C. Portable fluid operated lifting jack. 2,610,824, Sept. 16.

Griffiths, Clyde C., assignor to Whiting Corporation, Harvey, Ill. Vehicle washing apparatus. 2,610,342, Sept. 16.

Grooms, Percy E., Troy, Ohio. Restraining device for children's high chairs. 2,610,670, Sept. 16.

Grue, Olav E., Copenhagen, Denmark. Supporting means for acoustical absorbers. 2,610,695, Sept. 16.

Guaranty Investment Corporation Limited, assignee: *See*— Udy, Marvin J.

Guignard, Ulyss O.: *See*— Bros, Chester W., Williamson, and Guignard.

Hahn, Johann, Brooklyn, N. Y. Pipe testing machine. 2,610,651, Sept. 16.

Hales, Everett B., Mount Kisco, N. Y., assignor to General Precision Laboratory Incorporated. Triangle solver. 2,610,789, Sept. 16.

Hall, Carlyle, Berkeley, Calif. Automobile lift. 2,610,747, Sept. 16.

Hall, Clarence C., Cleveland, Ohio. Building block. 2,610,503, Sept. 16.

Hall, Dianne, Los Angeles, Calif. Nursing bottle rinser and sprayer. 2,610,894, Sept. 16.

Haller, Robert B., Wilkinsburg, and W. P. Yant, Murraysville, assignors to Mine Safety Appliances Company, Pittsburgh, Pa. Pocket respirator. 2,610,624, Sept. 16.

Hallwood, Nathan A., deceased; T. T. Hallwood, administratrix de bonis non, assignor to T. T. Hallwood, Columbus, Ohio. Scale. 2,610,844, Sept. 16.

Hallwood, Thelma T., administratrix de bonis non, assignee: *See*— Hallwood, Nathan A.

Hamilton Watch Company, assignee: *See*— Hawks, Douglass, Jr., and Van Haaften.

Hamilton, William C., Esther, Mo. Telephone memo pad assembly. 2,610,867, Sept. 16.

Hammond, John H., Jr., Gloucester, Mass. Television still-picture transmitting and recording system. 2,611,027, Sept. 16.

Hammond, Philo L., Massillon, Ohio. Haircutting and collecting device. 2,610,393, Sept. 16.

Hamrick, Glenn A., San Diego, Calif. Window blind assembly for vehicles. 2,610,712, Sept. 16.

Hanna Engineering Works, assignee: *See*— Hanna, John C.

Hanna, John C., assignor to Hanna Engineering Works, Chicago, Ill. Packing ring. 2,610,846, Sept. 16.

Harris, Elizabeth C., Washington, D. C. Lacing needle. 2,610,777, Sept. 16.

Harriss, Lloyd J., Kenilworth, and B. Lambers, Oak Park, Ill.; said Lambers assignor to said Harriss. Crust rolling apparatus. 2,610,589, Sept. 16.

Hart, George L., Providence, Ky. Compressor supporting platform for tractors or other vehicles. 2,610,787, Sept. 16.

Hart, Gerald E., U. S. Navy. Blind landing system. 2,611,124, Sept. 16.

Hartford National Bank and Trust Company, trustee, assignee: *See*— Arends, Jacobus L. Boosman, Herman B. R., and Zijlstra. De Boer, Kornelis. Derksen, Jan C., and Jacobs. Hepp, Gerard. Janssen, Johannes M. L. Jones, Emlyn. Valeton, Josué J. P. Van Der Lee, Albertus, Vivie, and Hofland. Van Meurs, Johan F., and Venema.

Hartman, William L.: *See*— Goedeke, William J., and Hartman.

Hartzler, Melvin E.: *See*— McKee, John F., and Hartzler.

Harvey, Robert L., Princeton, N. J., assignor to Radio Corporation of America. Dielectric tuning system. 2,611,088, Sept. 16.

Hastings, Paul E.: *See*— Wilcock, Robert C., and Hastings.

Hatchard, William R., and J. W. Hill, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing polyvinyl alcohol filaments of improved properties. 2,610,359, Sept. 16.

Hauck, John N., Red Hill, assignor to Columbia Boiler Company, Pottstown, Pa. Combustion chamber for domestic oil burners and the like. 2,610,594, Sept. 16.

Havlick, Howard T., Erieside, assignor to Willard Storage Battery Company, Cleveland, Ohio. Trickle charger. 2,611,118, Sept. 16.

Hawkins, James E., assignor to Seismograph Service Corporation, Tusa, Okla. Seismic signal amplifying system. 2,611,024, Sept. 16.

Hawkins, Maybelle A., Highland Park, Ill. Diaper. 2,610,629, Sept. 16.

Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire treading mold. 2,610,357, Sept. 16.

Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Machine for buffing tires. 2,610,446, Sept. 16.

Hawkinson, Paul E., Company, assignee: *See*— Hawkinson, Paul E.

Hawks, Douglass, Jr., and E. Van Haaften, assignors to Hamilton Watch Company, Lancaster, Pa. Measuring machine attachment. 2,610,408, Sept. 16.

Hay, John M., and R. F. McIver, assignors to Scottish Seaweed Research Association, Edinburgh, Scotland. Apparatus for harvesting underwater seaweed. 2,610,458, Sept. 16.

Hayden, Alfred J., Port Orange, Fla. Unitary self-adjusting handle. 2,610,885, Sept. 16.

Hayes, Charles T., assignor to Dynamatic Corporation, Kenosha, Wis. Shaft seal. 2,610,872, Sept. 16.

Hayes, Frank, assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y. Controlled flow beater. 2,610,553, Sept. 16.

Hayes, Martin E.: *See*— Wright, Robert L., and Hayes.

Hazeltine Research, Inc., assignee: *See*— Bailey, William F.

Hearon, William M., Camas, Wash., and V. V. Jones, Hyattsville, Md., assignors to Crown Zellerbach Corporation, Camas, Wash. Thermal process for beta conidendrin manufacture. 2,610,970, Sept. 16.

Hecht, Otto F.: *See*— Fischer, Karl A., and Hecht.

Heck, William R.: *See*— Le Bron, Roderick, and Heck.

Hedge, Marvin K., Portland, Oreg. Camouflaged fishing line and making the same. 2,610,539, Sept. 16.

Heintges, Clemens A., Uddevalla, assignor to Aktiebolaget Teximpex, Gothenburg, Sweden. Screen printing machine. 2,610,577, Sept. 16.

Heller, Julius, Portsmouth, Va. Wheel hub cable power unit combination winch and hoist. 2,610,826, Sept. 16.

Hemminger, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Treatment of carbonaceous solids. 2,610,944, Sept. 16.

Hendrickson, Edward O., Grenville, S. Dak. Paddle wheel reinforcement means. 2,610,460, Sept. 16.

Henry, Beulah L., New York, N. Y. Continuously attached envelopes. 2,610,784, Sept. 16.

Henschker, Erhard, and F. S. Salter, Parkstone, assignors to The Loewy Engineering Company Limited, London, England. Ring rolling mill. 2,610,531, Sept. 16.

Hensgen, Bernard T., assignor to Swift & Company, Chicago, Ill. Coloring agent for plastic materials. 2,610,917, Sept. 16.

Hepp, Gerard, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Apparatus including a titanate condenser for amplifying an electrical signal. 2,611,039, Sept. 16.

Heppenstall Company, assignee: *See*— Heppenstall, Max R.

Heppenstall, Max R., assignor to Heppenstall Company, Pittsburgh, Pa. Ring rolling mill. 2,610,532, Sept. 16.

Hercules Powder Company, assignee: *See*— Vandenberg, Edwin J.

Herring, Robert A., Jr.: *See*— Varela, Arthur A., and Herring.

Hewitt, George W.: *See*— Penney, Gaylord W., and Hewitt.

Hibbard, Lloyd J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system for electrically-operated vehicles. 2,611,117, Sept. 16.

Hill, Julian W.: *See*— Hatchard, William R., and Hill.

Hill, Walter P., Pontiac, assignor to Calumet & Hecla Consolidated Copper Company, Calumet, Mich. Manufacturing forming rolls. 2,610,452, Sept. 16.

Hillyer Deutsch Edwards, Inc., assignee: *See*— Marcantel, Joe.

Hinshaw, Jerrold O., Downey, assignor to Purex Corporation, Ltd., South Gate, Calif. Accelerated settling of bleach impurities. 2,610,905, Sept. 16.

Hite, Daniel I., West Columbia, S. C. Shutter structure. 2,610,371, Sept. 16.

Hobart, Garret A., III: *See*— Borland, Elleen E., Hobart, Nawrocki, and Neher.

Hoen, Max L., assignee: *See*— Kohl, Alexander.

Hofland, Karel R.: *See*— Van der Lee, Albertus, Vivie, and Hofland.

Holden, Elmer H., Poplarville, Miss. Potato harvester. 2,610,457, Sept. 16.

Hollenberg, Arthur V., St. Albans, N. Y., assignor to the United States of America as represented by the Secretary of War. Standing wave ratio indicator. 2,611,103, Sept. 16.

Hollingshead, R. M., Corporation, assignee: *See*— Esposito, Vito.

Holmes, John R., and A. Schwarz, Lockport, N. Y., assignors to General Motors Corporation, Detroit, Mich. Condenser. 2,610,832, Sept. 16.

Holton, Robert L., Beggs, Okla. Game skinning rack. 2,610,356, Sept. 16.

Honeycutt, Walter A., Washington, D. C. Apparatus for making tufted work. 2,610,436, Sept. 16.

Hope, Lawrence F., Grosse Pointe Farms, assignor to General Motors Corporation, Detroit, Mich. Nonselsmic torsiograph. 2,610,505, Sept. 16.

Hopkinson, Harry, Lawrenceville, N. J. Flameproofing composition. 2,610,920, Sept. 16.

Horn, Henry S., South Orange, assignor to W. C. Horn Bro. & Co., Newark, N. J. Transparent mounting sheath for snapshots. 2,610,421, Sept. 16.

Horn, W. C., Bro. & Co., assignee: *See*— Horn, Henry S.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Belt drive for papermaking machines. 2,610,517, Sept. 16.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Reinforced split clutch plate. 2,610,719, Sept. 16.

Horne, Gilder S., Charlotte, N. C. Tobacco barn structure. 2,610,568, Sept. 16.

Horne, Gilder S., Charlotte, N. C. Comb ventilator for tobacco barns. 2,610,569, Sept. 16.

Houdaille-Hershey Corporation, assignee: *See*— Schatzman, George W.

Howard, Alan, Schenectady, N. Y., assignor to General Electric Company. Axial flow compressor. 2,610,786, Sept. 16.

Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Material feeding conveyer. 2,610,726, Sept. 16.

Howell, Albert S., Culver, Ind., assignor to Bell & Howell Company, Chicago, Ill. Intermittent strip feed mechanism of the reciprocating type. 2,610,543, Sept. 16.

Howell, Roy C., Lakewood, Ohio. Detachable handle. 2,610,354, Sept. 16.

Howell, William C., Jr.: *See*— Morway, Arnold J., and Howell.

Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Fused drop-out cutout. 2,611,054, Sept. 16.

Huber, Martin, Munich, Germany. Ball hurling device for simulated bowling. 2,610,618, Sept. 16.

Huck Co., assignee: *See*— Huck, William F.

Huck, William F., Forest Hills, assignor to Huck Co., New York, N. Y. Sheet delivery mechanism for printing machines. 2,610,850, Sept. 16.

Huckshold, Elmer J., assignor to Central Mine Equipment Company, St. Louis, Mo. Mining drill. 2,610,829, Sept. 16.

Huesgen, Clifford P., assignee: *See*— Deering, Thomas J.

Huesgen, Gertrude E., assignee: *See*— Deering, Thomas J.

Hufnagel, Joseph F., Los Angeles, Calif. Detachable drawer stop. 2,610,353, Sept. 16.

Huguenin, Marc, Geneva, Switzerland, assignor to Montres Rolex SA (Rolex Watch Co. Ltd.). Shaped timepiece automatically rewound by means of a movable mass. 2,610,462, Sept. 16.

Huizenga, Charles B., assignor to The Kawneer Company, Niles, Mich. Door construction. 2,610,369, Sept. 16.

Hulbert, Reed O., Ashtabula, Ohio. Motor vehicle wheel truck. 2,610,750, Sept. 16.

Hunter, Robert F., Quincy, Mass. Filter for cooking fats. 2,610,740, Sept. 16.

Hunter, Robert K., Oak Park, assignor to Universal Oil Products Company, Chicago, Ill. Catalytic apparatus. 2,610,909, Sept. 16.

Hurd, Thaddeus B.: *See*— Shannon, Harold S., and Hurd.

Hurd, Thaddeus B., Detroit, Mich., assignor to National Steel Corporation. Building construction. 2,610,709, Sept. 16.

Hutcheson, John W., Beacon, assignor to The Texas Company, New York, N. Y. Manufacture of magnesium salts of high molecular weight alkylated hydroxy aromatic compounds and their use in lubricating oils. 2,610,982, Sept. 16.

Hutchins, Francis E., East Norwalk, and C. J. Golding, South Norwalk, Conn., assignors to R. T. Vanderbilt Co., Inc. Heat-treating a swellable bentonite to increase its thickening power. 2,610,951, Sept. 16.

Hytte, Robert P. Larsson, Lund, assignor to Aktiebolaget Separator, Stockholm, Sweden. Plate heat exchanger. 2,610,835, Sept. 16.

Ideal Industries, Inc., assignee: *See*— Robinson, Elvin B., and Costner.

Ilford Limited, assignee: *See*— Kendall, John D., and Duffin.

Illinois Tool Works, assignee: *See*— Poupitch, Ouglijesa Jules.

Imbert, Roger J., and R. Anxionnaz, assignors to Societe Rateau (Societe Anonyme), Paris, France. Auxiliary thrust means for jet-propelled aircraft. 2,610,465, Sept. 16.

Immel, Ralph B., Williamsville, and L. Pierce, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric switch with permanent-magnet blowout field. 2,611,059, Sept. 16.

Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Lapping machine. 2,610,451, Sept. 16.

Ingram, Martell D., Wichita Falls, Tex. Stove for burning either liquid or gaseous fuel. 2,610,621, Sept. 16.

Inland Container Corporation, assignee: *See*— Ferguson, Kenneth C.

Innes, Willard J.: *See*— Beck, Henry E., Jozwik, and Innes.

Inskeep, Leo A., Cadiz, Ohio. Dipper handle. 2,610,754, Sept. 16.

Interior, United States of America as represented by the Secretary of the, assignee: *See*— Staten, Fred W. Taliaferro, David B., McClung, and Mueller.

International Nickel Company, Inc., The, assignee: *See*— Millis, Keith D., Gagnebin, and Pilling.

Irvine, Jan S., Pelham, assignor to Plastic Sheet Fabrication, Inc., New York, N. Y. Insulated container. 2,610,757, Sept. 16.

Irving, Jack H., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Radio object locating system having a hyperbolic sweep. 2,611,126, Sept. 16.

Isenberg, Hans D., Wilmette, Ill. Device for color coding insulated conductors. 2,610,607, Sept. 16.

Isenberg, Robert M., Fort Mitchell, Ky. Airport taxiway reflector. 2,610,548, Sept. 16.

Ivey, Mildred H., Atlanta, Ga. Lipstick applicator. 2,610,641, Sept. 16.

Iwashita, George K., Nutley, N. J., assignor to Admiral Corporation, Chicago, Ill. Two-temperature refrigerator. 2,610,479, Sept. 16.

Jackel, Arthur P., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Thermal relay. 2,611,056, Sept. 16.

Jacobs, Frans M.: *See*— Derksen, Jan C., and Jacobs.

Jaeger, Gebhard, assignor to The Jaeger Machine Company, Columbus, Ohio. Lifting device. 2,610,890, Sept. 16.

Jaeger Machine Company, The, assignee: *See*— Jaeger, Gebhard.

James, William G., West Middlesex, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bus bar bushing structure for electrical apparatus casings. 2,611,002, Sept. 16.

Jankowski, Herman, Liverpool, N. Y., assignor to General Electric Company. Selective signal transmission system. 2,611,025, Sept. 16.

Jansen, Charles, Brooklyn, N. Y., assignor to Nelson J. Edge, Jersey City, N. J. Window construction. 2,610,370, Sept. 16.

Janssen, Johannes M. L., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Mixing circuit. 2,611,093, Sept. 16.

Jeffrey Manufacturing Company, The, assignee: *See*— Pearson, David, and Yarmak.

Jenkins, David, Seattle, Wash. Divergent plate, link supported, mop pressure actuated mop wringer. 2,610,348, Sept. 16.

Jennings, Albion H., and H. E Sharman, Miami, Fla.; said Jennings assignor to said Sharman. Clamp for clamping concrete forms. 2,610,660, Sept. 16.

Jenny, Dietrich A., Princeton, N. J., assignor to Radio Corporation of America. Color television picture tube. 2,611,099, Sept. 16.

Jensen, Raymond W., assignor to The Garrett Corporation, Los Angeles, Calif. Protected cooler. 2,610,831, Sept. 16.

Jepson, Alfred B.: *See*— Cooper, James B., and Jepson.

Jerome, Arthur L.: *See*— Pascoe, Frank T., and Jerome.

Johanson, John E.: *See*— Polydoroff, Wladimir J., and Johanson.

Johns, Francis J., and H. J. Owens, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Construction of dynamoelectric machines. 2,610,992, Sept. 16.

Johnson, John O., St. Louis, Mo., assignor to American Optical Company, Southbridge, Mass. Face protective device. 2,610,323, Sept. 16.

Johnson, Kenneth C., Riverside, R. I. Feed control mechanism for lathes. 2,610,535, Sept. 16.

Johnson, Stanley A.: *See*— Weber, Ernst, and Johnson.

Johnston, Lawrence H., Sandoval County, N. Mex., assignor, by mesne assiguments, to the United States of America as represented by the Secretary of War. Automatic curve follower. 2,611,115, Sept. 16.

Jones, Emlyn, Salfords, near Redhill, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Synchronizing system. 2,611,033, Sept. 16.

Jones, Lewis D., Lawndale, Calif. Bait carrier. 2,610,428, Sept. 16.

Jones, Viron V.: *See*— Hearon, William M., and Jones.

Jones, William R., assignee: *See*— Dreese, George A.

Jones, Win, Grand Rapids, Mich. Dog's toy. 2,610,851, Sept. 16.

Jozwik, John C.: *See*— Beck, Henry E., Jozwik, and Innes.

Jozwik, John C., State College, N. Mex., assignor to J. I. Case Company, Racine, Wis. Corn husking roll. 2,610,633, Sept. 16.

Jung, Oscar H., Milwaukee, Wis. Wick oiler. 2,610,706, Sept. 16.

Kahn, Leo M., Brooklyn, N. Y. Automatic balancing system for rotatable article handling machines. 2,610,523, Sept. 16.

Kansas City Testing Laboratory, assignee: *See*— Cross, Walter M., Jr.

Kaufman, Leo T., Chicago, Ill. Score indicator for boxing and the like. 2,610,792, Sept. 16.

Kawneer Company, The, assignee: *See*— Huizenga, Charles B.

Keiser, Bernhard: *See*— De Groote, Melvin, and Keiser.

Kelley, John F.: *See*— Schleser, Warren J., and Kelley.

Kelly, Ralph E., Alvord, Iowa. Belt pulley controller for tractors. 2,610,522, Sept. 16.

Kendall, John D., and G. F. Duffin, assignors to Ilford Limited, Ilford, England. Production of diaryl pyrazolines. 2,610,969, Sept. 16.

Kennedy, Raymond E., New Salisbury, Ind. Electrical cooking device. 2,611,067, Sept. 16.

Kenney, Mahlon W., Oak Park, assignor to J. P. Seeburg Corporation, Chicago, Ill. Automatic phonograph. 2,610,858, Sept. 16.

Kiekhaefer, Elmer C., Cedarburg, Wis. Engine driven chain saw. 2,610,657, Sept. 16.

Kimball, A., Company, assignee: *See*— Pope, Paul M.

Kirkbride, John F., and J. D. Mayer, assignors to Boeing Airplane Company, Seattle, Wash. Oil tank pressurizing control. 2610,705, Sept. 16.

Kleiman, Morton, assignor to Velsicol Corporation, Chicago, Ill. Production of organo-thiyl compounds. 2,610,967, Sept. 16.

Kleiman, Morton, assignor to Velsicol Corporation, Chicago, Ill. Production of organo-thiyl compounds. 2,610,968, Sept. 16.

Kleiner, Israel S., New York, N. Y. Swabbing device with disposable swab. 2,610,347, Sept. 16.

Kleinholz, Milton P., East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y. Rust inhibiting composition. 2,610,910, Sept. 16.

Kline, Leo, and T. T. Sonoda, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Preparation of dried eggs. 2,610,918, Sept. 16.

Knapp, James G.: *See*— Adams, Bruce P., Palma, and Knapp.

Knoll, William A., United States Navy. Jet engine having fuel pumps driven by air turbine in thrust augmenting air duct. 2,610,464, Sept. 16.

Knowlton, Paul H., Jr., Schenectady, N. Y., assignor to General Electric Company. Turbine bucket damping arrangement. 2,610,823, Sept. 16.

Knutsen, Knut A., assignor to Compagnie des Machines Bull (Societe Anonyme), Paris, France. Machine for comparing and classifying record cards. 2,610,706, Sept. 16.

Koch, Frederick, Sparta, assignor to C. Todd, Rutherford, N. J., as trustee. Machine for operating on strip stock. 2,610,388, Sept. 16.

Koehler Manufacturing Company, assignee: *See*— Wheat, Grant.

Koehring Company, assignee: *See*— Beckwith, Raymond A.

Koeling, George O., Milwaukee, Wis. Under door frame saw 2,610,658, Sept. 16.

Kohl, Alexander, assignor of one-half to M. L. Hoen, Fresno, Calif. Cane. 2,610,420, Sept. 16.

Kolff, Peter van S., New Canaan, Conn. Rotary contactor device. 2,611,051, Sept. 16.

Kopel, Hyman, Revere, Mass. Reinforcing garments. 2,610,327, Sept. 16.

Kostopoulos, Emanuel A., Drexel Hill, Pa. Ventilating and insulating undershirt. 2,610,496, Sept. 16.

Krasberg, Rudolf, Chicago, Ill. Automatic stop for dies. 2,610,686, Sept. 16.

Krause, Ernst H., Cheverly, Md. Electric counting and integrating system. 2,610,793, Sept. 16.

Kreft, Ewald, and A. Eichelberger, Jennings, Mo. Pattern marker for looms. 2,610,653, Sept. 16.

Krieg, Anthony W., and J. Mayer, assignors to Cypress Novelty Corporation, Brooklyn, N. Y. Machine for depositing candy icing on cards. 2,610,591, Sept. 16.

Krier, Robert L.: *See*— Woodruff, Kenneth O., and Krier.

Kriewall, Fred W., Van Dyke, Mich., assignor to Leland-Gifford Company, Worcester, Mass. Hydraulic drill feed and stroke timing mechanism. 2,610,528, Sept. 16.

Kroeker, Sanford P.: *See*— Lovelady, Isaac W., and Kroeker.

Kuniholm, Carl A., Gardner, Mass., assignor to Annett Box Company, Jaffrey, N. H. Folding play yard. 2,610,331, Sept. 16.

Kunzler, William S.: *See*— Weber, Victor, and Kunzler.

Kurz, Fredrik W. A., Nybro, Sweden. Producing articles of glass. 2,610,444, Sept. 16.

Kuthe, Herman K., Neshanic, and R. H. Bloemeke, Nutley, N. J., assignors to the United States of America as represented by the Secretary of the Army. Three-element thermionic tube structure. 2,611,112, Sept. 16.

L'Abée-Lund A./S., assignee: *See*— L'Abée-Lund, Johan H.

L'Abée-Lund, Johan H., assignor to L'Abée-Lund A./S., Nordstrand near Oslo, Norway. Motion transmitting mechanism. 2,610,410, Sept. 16.

Lace, Donald A.: *See*— Orsatti, Ernest R., and Lace.

La Grutta, Pascal A., Cedar Grove, assignor to Lapin Products, Inc., Newark, N. J. Child's toy harmonica. 2,610,537, Sept. 16.

Lake Erie Chemical Company, The, assignee: *See*— Warner, Edmund A.

Laliberte, Albert J., assignor to Safety-Fuel Incorporated, West Cheshire, Conn. Flame control for burners of the solidified normally liquid fuel burning type. 2,610,674, Sept. 16.

Lambers, Bernard: *See*— Harriss, Lloyd J., and Lambers.

Lambson, Lorenzo D., Southwick, Mass. Tractor implement hitch. 2,610,563, Sept. 16.

Lamm, Raymond R., Philadelphia, Pa., assignor to The Patent and Licensing Corporation, New York, N. Y. Resinous adhesive composition. 2,610,924, Sept. 16.

Lange, Frederick E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fuel burner safety control apparatus. 2,610,677, Sept. 16.

Lange, Henry J., assignor to Betz Corporation, Hammond, Ind. Compact refrigeration unit for cooling air. 2,610,484, Sept. 16.

Lanham, William M., Charleston, W. Va., assignor to Union Carbide and Carbon Corporation. Production of halogen containing organic compounds of phosphorus. 2,610,978, Sept. 16.

Lantz, Alpha P., Washington, D. C. Pad and cover attached ironing board. 2,610,418, Sept. 16.

Lapin Products, Inc., assignee: *See*— La Grutta, Pascal A.

Larham, David P., Southampton, England. Machine for sorting goods. 2,610,748, Sept. 16.

Larson, Gilbert C., Sunbury, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radio apparatus. 2,611,111, Sept. 16.

Lathrop, Robert P., Chevy Chase, Md., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Constant tension winding. 2,610,806, Sept. 16.

Latta, Edward, Owosso, and A. J. Woltanski, Henderson, assignors to Redmond Company, Inc., Owosso, Mich. Parking control for windshield wipers. 2,611,116, Sept. 16.

Le Bron, Roderick, and W. R. Heck, Omaha, Nebr. Sheet metal cutting apparatus. 2,610,685, Sept. 16.

Le Clair, Camille C. S., Acton, London, assignor to Tecalemit Limited, Brentford, England. Grease gun having reservoir cover and automatic locking means therefor. 2,610,768, Sept. 16.

Lederfine, Joseph, Brooklyn, N. Y. Mouth organ with fingering selector. 2,610,538, Sept. 16.

Leland-Gifford Company, assignee: *See*— Kriewall, Fred W.

Lemos, Albert, Jr., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Valve for pressure control systems. 2,610,822, Sept. 16.

Lenehan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Carrier-current coupler. 2,611,022, Sept. 16.

Lenkurt Electric Co., Inc., assignee: *See*— Appert, Kurt E.

Leslie, John H., II, Evanston, assignor to Signode Steel Strapping Company, Chicago, Ill. Bundle-binder seal. 2,610,374, Sept. 16.

Levy, Ernest, Jr., Bronx, N. Y., assignor to Sorensen & Company, Inc., Stamford, Conn. Phase balance of 3-phase inverter. 2,610,991, Sept. 16.

Liberatore, Laurence C., assignor to Taylor Instrument Companies, Rochester, N. Y. Stabilising the molecular arrangement of glass thermometers. 2,610,445, Sept. 16.

Lilly, Howard C., Sharon, assignor to Masury-Young Company, Charlestown, Mass. Squeegee nozzle attachment for vacuum cleaners. 2,610,351, Sept. 16.

Lindstrom, Ture, Edgewood, J. Sandin, Forest Hills, and H. L. Rawlins, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electromagnetic trip device. 2,611,013, Sept. 16.

Linton, Earl M., Tampa, Fla. Cuticle guard. 2,610,640, Sept. 16.

Lionel Corporation, The, assignee: *See*— Bonanno, Joseph L.

Livingston, Mervin A., El Monte, Calif. Marble game apparatus. 2,610,853, Sept. 16.

Locke, Louis P., Victor, N. Y. Making electrical terminals. 2,610,390, Sept. 16.

Lockhart, Marshall L., assignor to The Compule Corporation, Rutherford, N. J. Plural-compartment admixing vial for segregated storage of ingredients of solutions and liquid mixtures. 2,610,628, Sept. 16.

Lockhart, William K., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Removable mountings and interlocking means for electrical devices. 2,610,998, Sept. 16.

Loewy Engineering Company Limited, The, assignee: *See*—
Henschker, Erhard, and Salter.

Lofstedt, Jack W., assignor to Metromatic Products Company, Los Angeles, Calif. Ice-cream freezer with refrigerant control. 2,610,478, Sept. 16.

Long, Ballard E., Jr., Knoxville, Tenn. Sheave. 2,610,514, Sept. 16.

Loritsch, John A.: *See*—
Nordlander, Birger W., and Loritsch.

Lovelady, Isaac W., and S. P. Kroeker, assignors to Sivalls Tanks, Inc., Odessa, Tex. Gas and liquid separator apparatus. 2,610,697, Sept. 16.

Lovelady, Isaac W., and S. P. Kroeker, assignors to Sivalls Tanks, Inc., Odessa, Tex. Emulsion treater. 2,610,698, Sept. 16.

Ludlow, Edmund, Columbus, Ind., assignor to Arvin Industries, Inc. Automobile-body heater. 2,610,833, Sept. 16.

Luebbers, Herman E., Fort Dodge, Iowa. Load lifting mechanism. 2,610,752, Sept. 16.

M and M Wood Working Company, assignee: *See*—
Pasquier, Michel.

Maas, Louis J., Detroit, Mich. Key holder. 2,610,501, Sept. 16.

Maccaferri, Mario: *See*—
Nettler, Stanley, and Maccaferri.

Macco Oil Tool Company, assignee: *See*—
Carlisle, Willis C., and McCarvell.

MacDougall, Donald J.: *See*—
Cade, Phillip J., and MacDougall.

MacGregor, David: *See*—
Markel, Michael A., and MacGregor.

MacKenzie, William, assignor to Scottish Seaweed Research Association, Edinburgh, Scotland. Apparatus for harvesting seaweed underwater. 2,610,459, Sept. 16.

Mackey, Donald: *See*—
Sass, Earl J., and Mackey

Macomber, Stanley, North Canton, Ohio. Double V stud section. 2,610,711, Sept. 16.

Mader, Stewart S., assignor to Norton Company, Worcester, Mass. Grinding machine. 2,610,448, Sept. 16.

Magarian, Masick C., Fresno, Calif. Signal arm. 2,610,603, Sept. 16.

Maglott, George F., Wrentham, Mass., assignor to Brown and Sharpe Manufacturing Company. Pilot operated fluid pressure control valve. 2,610,647, Sept. 16.

Manley, Fred J., Knoxville, Tenn. Ceiling construction. 2,610,385, Sept. 16.

Mann, Ralph J., and J. Biedawski, Spondon, near Derby, Engand, assignors to British Celanese Limited. Producing a textile product. 2,610,384, Sept. 16.

Manne Enterprises, Ltd., assignee: *See*—
Manne, Moe.

Manne, Moe, assignor to Manne Enterprises, Ltd., New York, N. Y. Making gem settings. 2,610,385, Sept. 16.

Mansen, Harry, Barrington, assignor to Elgin Softener Corporation, Elgin, Ill. Valve actuator. 2,610,511, Sept. 16.

Manske, Joseph J., L. J. Martin, and R. J. Bernake, Milwaukee, Wis. Spinning top. 2,610,440, Sept. 16.

Marcantel, Joe, assignor to Hilliyer Deutsch Edwards, Inc., Oakdale, La. Pusher feed saw table loading device. 2,610,729, Sept. 16.

Markel, Michael A., East Chicago, and D. MacGregor, Munster, assignors to Edward Valves Incorporated, East Chicago, Ind. Valve bonnet structure. 2,610,820, Sept. 16.

Marlowe, Elbert W., Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company. Carrier inductive communication system for vehicles. 2,611,075, Sept. 16.

Marsh Stencil Machine Company, assignee: *See*—
Marsh, Walton C.

Marsh, Walton C., assignor to Marsh Stencil Machine Company, Belleville, Ill. Making brush tips. 2,610,896, Sept. 16.

Marshall, William A., Jr., assignor to Stewart-Warner Corporation, Chicago, Ill. Thermostatic heater control. 2,610,796, Sept. 16.

Martin, Homer Z., Roselle, and I. Mayer, Summit, N. J., assignors to Standard Oil Development Company. Hydrocarbon synthesis. 2,610,976, Sept. 16.

Martin, Lester J.: *See*—
Manske, Joseph J., Martin, and Bernake.

Martin, Lloyd M., San Francisco, Calif., assignor to Winter & Company, Inc., New York, N. Y. Making piano action flanges. 2,610,358, Sept. 16.

Martin, Lynn P., assignor to W. A. Shaeffer Pen Company, Fort Madison, Iowa. Writing instrument. 2,610,611, Sept. 16.

Martin, Lynn P., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Writing instrument. 2,610,612, Sept. 16.

Martin, William A., Sweetwater, Tex. Display sign structure. 2,610,423, Sept. 16.

Marvel Equipment Corporation, assignee: *See*—
Roethel, John H.

Masson, Claude M. E., assignor to Societe d'Electronique et d'Automatisme, Paris, France. Flip-flop stage control circuits. 2,611,085, Sept. 16.

Masury-Young Company, assignee: *See*—
Lilly, Howard C.

Mattil, Karl F., assignor to Swift & Company, Chicago, Ill. Winterized glyceride oil and producing the same. 2,610,915, Sept. 16.

Maussnest, Frederick K., Queens Village, N. Y.; now by change of name Frederick K. Maust. Counterbalancing device. 2,610,524, Sept. 16.

Maust, Frederick K.: *See*—
Maussnest, Frederick K.

Mavor & Coulson, Limited, assignee: *See*—
Galloway, William S.
Weir, William.

Maxwell, John B., assignor to Maxwell Refrigeration Limited, Vancouver, British Columbia, Canada. Portable refrigerating apparatus. 2,610,472, Sept. 16.

Maxwell Refrigeration Limited, assignee: *See*—
Maxwell, John B.

Mayberry, De E. B., Detroit, Mich. Drain trap scraping and cleaning means. 2,610,696, Sept. 16.

Mayer, Ivan: *See*—
Martin, Homer Z., and Mayer.

Mayer, John D.: *See*—
Kirkbride, John F., and Mayer.

Mayer, Joseph: *See*—
Krieg, Anthony W., and Mayer.

McCann, Judith, New York, N. Y. Earring. 2,610,486, Sept. 16.

McCarvell, John H.: *See*—
Carlisle, Willis C., and McCarvell.

McClung, Clifford F.: *See*—
Tallaferro, David B., McClung, and Mueller.

McCreary, Harold J., Lombard, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Frequency generator employing a magnetic double cross valve. 2,611,119, Sept. 16.

McCreary, Harold J., Lombard, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Magnetic cross valve having self-starting characteristics. 2,611,120, Sept. 16.

McGill, Daniel F., assignor to Donald W. Green, trustee, Portland, Oreg. Rotary hydraulic torque converter. 2,610,468, Sept. 16.

McIlvaine, Robert L., Glencoe, assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill. Variable unit pressure muller. 2,610,802, Sept. 16.

McIver, Robert F.: *See*—
Hay, John M., and McIver.

McKee Door Company, assignee: *See*—
McKee, John F., and Hartzler.

McKee, John F., Aurora, and M. E. Hartzler, Downers Grove, assignors to McKee Door Company, Aurora, Ill. Airplane hangar door. 2,610,366, Sept. 16.

McMillin, James R., and W. Sakarash, Newark, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Cushion. 2,610,337, Sept. 16.

McQuaid, Daniel J., Sr., Denver, Colo. Geometrical instrument. 2,610,407, Sept. 16.

McReary, Ronald, Corvallis, Oreg. Interlocking sections for paper boxes. 2,610,782, Sept. 16.

McSheehy, Justin A., Somerville, and W. A. Raimond, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparation of alpha-amino anthraquinone. 2,610,971, Sept. 16.

Melpar, Inc., assignee: *See*—
Brough, James R.

Mendelson, Hans, Camden, N. J., assignor to Radio Corporation of America. Cover latch for plastic radio cabinets and the like. 2,610,763, Sept. 16.

Merck & Co., Inc., assignee: *See*—
Dunning, Ronald G.
Stein, Gustav A., Vogel, and Valerio.

Merles, Antoine J., Paris, France. Positioning device. 2,610,720, Sept. 16.

Metromatic Products Company, assignee: *See*—
Lofstedt, Jack W.

Metzger, Henry L., Castleton-on-Hudson, N. Y. Box. 2,610,781, Sept. 16.

Meyer, Adolph F., St. Paul, Minn. Valve apparatus. 2,610,648, Sept. 16.

Michaelson, Stanley D., and W. S. Springer, Birmingham, Ala., assignors to United States Steel Company. Proportioning distributor for mineral pulp or the like. 2,610,646, Sept. 16.

Midas, Beatrice H., Chicago, Ill. Tufting needle. 2,610,598, Sept. 16.

Mikkelson, Ole W., Sr., Sioux Falls, S. Dak. Toy repeating rubber band gun. 2,610,619, Sept. 16.

Millard, Arza E., Dayton, Ohio. Activated sign. 2,610,424, Sept. 16.

Miller, Edgar H., Detroit, Mich., assignor of one-half to E. E. Edmiston, Cleveland, Ohio. Roller mill. 2,610,801, Sept. 16.

Miller, Ernest F., Lansdowne, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Combustion chamber having telescoping walls and corrugated spacers. 2,610,467, Sept. 16.

Miller, Merton R., Lombard, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Temperature control apparatus. 2,610,797, Sept. 16.

Miller, Monroe E., Washington, D. C. Electrical impulse device. 2,610,583, Sept. 16.

Miller, Russell H., Hutchinson, Kans. Ventilated toilet bowl. 2,610,328, Sept. 16.

Millis, Keith D., Rahway, A. P. Gagnebin, Red Bank, and N. B. Pilling, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Steel-like alloy containing spheroidal graphite. 2,610,912, Sept. 16.

Milwaukee Gas Specialty Company, assignee: *See*—
Witzel, Ernst.

Mine Safety Appliances Company, assignee: *See*—
Haller, Robert B., and Yant.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Feigal, Richard S.
Lange, Frederick.

Minneapolis-Moline Company, assignee: *See*—
Wuertz, Paul P.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Beck, Warren R.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Thomson, Andrew F.

Miskovsky, Anton: *See*—
Zimic, Michael, and Miskovsky.

Modern Products, Inc., assignee: *See*—
Wilcox, Warren, and Daniel.

Monitor Controller Company, The, assignee: *See*—
Frese, Joseph F.

Montgomery, Edna M., Peoria, H. F. Conway, Creve Coeur, and F. B. Weakley, Peoria, Ill., assignors to United States of America as represented by the Secretary of Agriculture. Slurry adsorption separation and fractionation of sugars. 2,610,931, Sept. 16.

Montres Rolex SA (Rolex Watch Co. Ltd.), assignee: *See*—
Huguenin, Marc.

Moore, Cyril A., Springfield, Mass., assignor to the United States of America as represented by the Secretary of War. Rotatable trigger guard for firearms. 2,610,425, Sept. 16.

Moore, Ralph T., Lakewood, assignor to The American Monorail Company, Cleveland, Ohio. Suspended traveling blower for removing lint and the like from wall surfaces of textile mill rooms. 2,610,349, Sept. 16.

Moore Special Tool Co., Inc., assignee: *See*—
Victory, Frederick C.

Morin, George G., South Hadley Falls, assignor to Morin Manufacturing Company, Incorporated, Holyoke, Mass. Drag bucket. 2,610,753, Sept. 16.

Morin Manufacturing Company, Incorporated, assignee: *See*—
Morin, George G.

Morral Brothers, Inc., assignee: *See*—
Morral, Oscar G.

Morral, Oscar G., assignor to Morral Brothers, Inc., Morral, Ohio. Apparatus for preparing green corn for canning. 2,610,635, Sept. 16.

Morrill, Alfred R., deceased, late of Woodstock, Vt., by R. W. Morrill, administratrix, Woodstock, Vt., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,610,339, Sept. 16.

Morrill, Ruth W., administratrix: *See*—
Morrill, Alfred R.

Morrisroe, John J., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Detergent composition. 2,610,950, Sept. 16.

Morrow, Herbert E.: *See*—
Carlston, Hamilton S., and Morrow.

Morway, Arnold J., Clark Township, Union County, N. J., assignor to Standard Oil Development Company. Lubricating grease and manufacture. 2,610,947, Sept. 16.

Morway, Arnold J., Clark Township, Union County, and W. C. Howell, Jr., Union, N. J., assignors to Standard Oil Development Company. Lubricating compositions. 2,610,948, Sept. 16.

Moss, Jesse R., Johnson City, N. Y. Removable head spool structure. 2,610,811, Sept. 16.

Motorola, Inc., assignee: *See*—
Fyler, George W., and Crooker.

Moulton, Robert, Norristown, and C. J. Stover, Jenkintown, Pa., assignors to Goodman Manufacturing Company, Chicago, Ill. Sliding frame for shaker conveyers. 2,610,728, Sept. 16.

Mouron, B. Deleray: *See*—
Adams, Clarence R., Sherwood, and Mouron.

Mowll, Philip W.: *See*—
Seagren, Carl E., and Mowll.

Mueller, Fritz G.: *See*—
Tallaferro, David B., McClung, and Mueller.

Munro, George R.: *See*—
Dilg, Walter C., and Munro.

Murana, Ett J. F., Algonquin, Ill. Cable fitting. 2,610,376, Sept. 16.

Murray, Jerome L., Stamford, Conn. Fruit reamer. 2,610,663, Sept. 16.

Murray, Jerome L., New York, N. Y. Pressure cooking device. 2,610,764, Sept. 16.

Musgrove, Edward H., Denver, Colo. Air actuated time delay control switch. 2,610,990, Sept. 16.

Nadir, Mark, New York, N. Y., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Deflection circuit for cathode-ray oscillographs. 2,611,105, Sept. 16.

National Steel Corporation, assignee: *See*—
Hurd, Thaddeus B.
Shannon, Harold S.
Shannon, Harold S., and Hurd.

Nawrocki, Casimir Z.: *See*—
Borland, Eileen E., Hobart, Nawrocki, and Neher.

Nawry, Harriet L. B.: *See*—
Cassidy, Millard M., and Nawry.

Naylor, Marcus A., Jr., Bloomfield, N. J., assignor to E. I. du Pont, de Nemours and Company, Wilmington, Del. Preparation of aromatic carboxylic acid amides. 2,610,980, Sept. 16.

Neher, Henry V.: *See*—
Borland, Eileen E., Hobart, Nawrocki, and Neher.

Neiman, William T., Freeport, Ill. Fly holder. 2,610,430, Sept. 16.

Nelson, John W., Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y. Chemical manufacture. 2,610,974, Sept. 16.

Németh, Steffen P., Chicago, Ill. Climbing and spinning toy. 2,610,439, Sept. 16.

Nettler, Stanley, Great Neck, and M. Maccaferri, Rye, N. Y.; said Maccaferri assignor to said Nettler. Plastic shoe display form. 2,610,340, Sept. 16.

New Method Steel Stamps, Inc., assignee: *See*—
Norris, Richard H.

Nigh, George W., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Hydraulic tester. 2,610,504, Sept. 16.

Noble & Wood Machine Co., The, assignee: *See*—
Hayes, Frank.

Nordahl, Andrew, Van Nuys, Calif. Hanger for sliding doors. 2,610,367, Sept. 16.

Norgaard, Donald E., Scotia, N. Y., assignor to General Electric Company. Selective sideband transmission and reception system. 2,611,036, Sept. 16.

Nordlander, Birger W., Schenectady, and J. A. Loritsch, Scotia, N. Y., assignors to General Electric Company. Thixotropic compositions. 2,610,958, Sept. 16.

Nordlander, Birger W., Schenectady, N. Y., assignor to General Electric Company. Thixotropic compositions. 2,610,959, Sept. 16.

Nordlander, Birger W., Schenectady, N. Y., assignor to General Electric Company. Thixotropic compositions. 2,610,960, Sept. 16.

Norris, Richard H., assignor to New Method Steel Stamps, Inc., Detroit, Mich. Rotatable marking tool. 2,610,576, Sept. 16.

North American Aviation, Inc., assignee: *See*—
Gayner, Raymond D., Wood, and Copold.
Wagner, Bruce O.

Norton Company, assignee: *See*—
Indge, Herbert S.
Mader, Stewart S.

Noyack, Edward, Seymour, assignor to The Risdon Manufacturing Company, Naugatuck, Conn. Lipstick holder and the like. 2,610,734, Sept. 16.

Nuccio, Samuel, Kansas City, Mo. Portable fire alarm unit. 2,611,016, Sept. 16.

Null, George D., and C. E. Zepp, Taneytown, Md. Tractor hitch. 2,610,863, Sept. 16.

Nyberg, Ester, Seattle, Wash. Making dress forms. 2,610,773, Sept. 16.

O'Brien, John V., Park Ridge, Ill. Apparatus for cleaning pipes or drains. 2,610,807, Sept. 16.

Ochar, Thomas, Little Falls, N. Y. Self-locking box. 2,610,783, Sept. 16.

Oehler, William P., and C. H. Youngberg, assignors to Deere & Company, Moline, Ill. Disk gang biasing means. 2,610,454, Sept. 16.

Oehler, William P., and C. H. Youngberg, assignors to Deere & Company, Moline, Ill. Offset disk harrow. 2,610,455, Sept. 16.

Ogle Construction Co., assignee: *See*—
Bledsoe, Carl L.

Ogle, Luther C., Holly Hill, Fla. Cigarette lighter filler unit. 2,610,766, Sept. 16.

Oil Center Tool Company, assignee: *See*—
Eckel, John E.

Olin Industries, Inc., assignee: *See*—
Emerson, David.

Oliver Corporation, The, assignee: *See*—
Altgelt, Herman E.

Olsen, C. A., Manufacturing Company, The, assignee: *See*—
Downe, Edward R.

Orsatti, Ernest R., North Hollywood, and D. A. Lace, Los Angeles, Calif. Electromagnetic circuit interrupter. 2,610,995, Sept. 16.

Osborn, Daisy: *See*—
Osborn, Ralph and D.

Osborn, Ralph and D., National City, Calif. Rat or mouse trap. 2,610,431, Sept. 16.

Oshkosh Trunk and Luggage Co., assignee: *See*—
Plotkin, Samuel D.

Otto, Eugene J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Spring loaded variable diameter sheave and drive. 2,610,516, Sept. 16.

Overman, Earl R., Wabash, Ind. Batting machine. 2,610,688, Sept. 16.

Owen, John J., Baton Rouge, and S. D. Sumerford, East Baton Rouge, La., assignors to Standard Oil Development Company. Synthesis of hydrocarbons from carbon monoxide and hydrogen with an iron type catalyst. 2,610,975, Sept. 16.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Collins, Howard W., and Philipps.
McMillin, James R., and Sakarash.
Steinman, Robert, and Courtright.

Owens, Freeman H., New York, N. Y. Record magazine. 2,610,904, Sept. 16.

Owens, Henry J.: *See*—
Johns, Francis J., and Owens.

Paasche, Jens A., Chicago, Ill. Automatic multicolor airpainting apparatus. 2,610,578, Sept. 16.

Paasche, Jens A., Chicago, Ill. Automatic air painting unit with transverse oscillating action. 2,610,605, Sept. 16.

Pace, Garland B., Camp Hill, Pa., assignor to Pipe Line Construction and Drilling Company, Pineville, W. Va. Pipe handling mechanism. 2,610,888, Sept. 16.

Palma, Joseph, Jr.: *See*—
Adams, Bruce P., Palma, and Knapp.

Palmer, William B.: *See*—
Coultas, Wilbur J., Calvin, and Palmer.

Palmer, Winslow, West Hempstead, N. Y., assignor to The Sperry Corporation. Continuous wave navigation system. 2,611,127, Sept. 16.

Palmieri, Joseph, Buffalo, N. Y. Electric lamp having a revolvable shade structure. 2,611,071, Sept. 16.

Papay, James, East Chicago, Ind. Mechanical toy drive. 2,610,527, Sept. 16.

Parisi, Jules T., Chicago, Ill. Mixer-muller. 2,610,373, Sept. 16.

Parker, Carl A., Clyde, Ohio. Garden tool. 2,610,886, Sept. 16.

Parker, Samuel P., assignor to Callaway Mills Company, La Grange, Ga. Pile fabric loom. 2,610,652, Sept. 16.

Parmesan, Daniel J., Houston, Tex., assignor, by mesne assignments, to Chiksan Company, Brea, Calif. Union having pressure responsive seal. 2,610,870, Sept. 16.

Pascoe, Frank T., Carnegie, and A. L. Jerome, Edgewood, Pa., assignors to Westinghouse Air Brake Company. Centralized traffic control system for the code control of interlocked switches and signals. 2,611,074, Sept. 16.

Pasquier, Michel, assignor to M and M Wood Working Company, Portland, Oreg. Manufacture of hollow panels. 2,610,938, Sept. 16.

Patent and Licensing Corporation, The, assignee: *See*—
Lamm, Raymond R.

Patterson, John A., Beverly, N. J., assignor to Standard Oil Development Company. Separation of ethane and ethylene by extractive distillation. 2,610,704, Sept. 16.

Payne, Frank E., Glencoe, assignor to Crane Packing Company, Chicago, Ill. Driving means for fluid seals. 2,610,874, Sept. 16.

Pearson, David, and J. Yarmak, Wakefield, England, assignors to The Jeffrey Manufacturing Company. Plow type of coal mining machine. 2,610,841, Sept. 16.

Peel, Frederick W., Somerville, Tenn. Cotton chopper. 2,610,559, Sept. 16.

Pelland, Raymond L.: *See*—
Vandercook, David D., and E. O., and Pelland.

Pelouch, James J., Cleveland, Ohio, assignor, by mesne assignments, to Farm Tools, Inc. Reel mechanism. 2,610,810, Sept. 16.

Pelouze Manufacturing Company, assignee: *See*—
Adams, Bruce P., Palma, and Knapp.

Penfield, Raymond C., Chicago, Ill. Measuring dispenser. 2,610,770, Sept. 16.

Penn, Penn W., Ravenna, Ohio. Lifting tool. 2,610,889, Sept. 16.

Penney, Gaylord W., and G. W. Hewitt, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic air-cleaning system. 2,610,699, Sept. 16.

Peonle in the territory of United States, Dedicated to the free use of the, assignee: *See*—
Chisholm, Robert D., and Feat.

Perfection Mattress & Spring Company, The, assignee: *See*—
Taylor, Robert J.

Perls, Thomas A., Glen Echo Heights, Md., and G. W. Cook, Arlington, Va. Resonant bridge circuits. 2,611,021, Sept. 16.

Peterson, Fritz B., assignor to Draper Corporation, Hopedale, Mass. Sand roll and cloth roll mechanism. 2,610,655, Sept. 16.

Petrolite Corporation, assignee: *See*—
De Groote, Melvin, and Keiser.

Phillions, Thomas E.: *See*—
Collins, Howard W., and Philipps.

Phillips Petroleum Company, assignee: *See*—
Pollock, Lyle W.
Short, Graham H.

Photoswitch Marine Division, Inc., assignee: *See*—
Cade, Phillip J., and MacDougall.
Cade, Phillip J., and Shaw.

Picciano, Robert, Bronx, and I. Abramowitz, Brooklyn, N. Y. Collapsible thread feeding appliance for sewing machines. 2,610,599, Sept. 16.

Picker X-ray Corporation, Waite Manufacturing Division, Inc., assignee: *See*—
Goldfield, Edwin R., and Graves.

Pielstick, Gustav, Saint-Germain-en-Laye, France. Combustion engine valve operating means. 2,610,617, Sept. 16.

Pierce, Lawrence: *See*—
Immel, Ralph B., and Pierce.

Pietzsch, Frank H., Clayton, assignor to Western Railway Equipment Company, St. Louis, Mo. Freight vehicle side wall with anchoring means for lading strapping. 2,610,587, Sept. 16.

Piliero, James, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill. Innerspring mattress construction. 2,610,333, Sept. 16.

Piliero, James, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill. Mattress construction. 2,610,334, Sept. 16.

Pilling, Norman B.: *See*—
Millis, Keith D., Gagnebin, and Pilling.

Pine, Cecil C., Lake Ronkonkoma, and C. L. Sharp, Setauket, N. Y., assignors to The Sperry Corporation. Safety device for automatic approach systems. 2,611,128, Sept. 16.

Pingel, Henry C., assignor to Textile Machine Works, Wyomissing, Pa. Yarn carrier rod control mechanism for knitting machines. 2,610,512, Sept. 16.

Pinkney Paul S.: *See*—
Cline, Edward T., Pinkney, Plambeck, and Stevenson.

Pioneer Gen-E-Motor Corporation, assignee: *See*—
Goldberg, Harry, and Burrows.

Pipe Line Construction and Drilling Company, assignee: *See*—
Pace, Garland B.

Pistoles, Lambert R., Wilmington, Del. Gauge. 2,610,409, Sept. 16.

Plambeck, Louis, Jr.: *See*—
Cline, Edward T., Pinkney, Plambeck, and Stevenson.

Plastic Sheet Fabrication, Inc., assignee: *See*—
Irvine, Jan S.

Platz, Elwood T., and R. S. Davis, assignors to Bull Dog Electric Products Company, Detroit, Mich. Switch. 2,611,052, Sept. 16.

Plessey Company Limited, The, assignee: *See*—
Anderson, Edward G. O., Blundell, and Rhys-Jones.

Plotkin, Samuel D., Evanston, assignor to Oshkosh Trunk and Luggage Co., Chicago, Ill. Construction of corner sections in luggage. 2,610,715, Sept. 16.

Pneumatic Scale Corporation, Limited, assignee: *See*—
Howard, Stanley R.

Podell, Abram I., New York, N. Y. Mixing attachment. 2,610,513, Sept. 16.

Pollman, Adam F., Milwaukee, Wis. Concrete stair form. 2,610,380, Sept. 16.

Pollock, Lyle W., Washougal, Wash., assignor to Phillips Petroleum Company. Continuous adsorption process. 2,610,703, Sept. 16.

Polydoroff, Wladimir J., Kensington, Md., and J. E. Johanson, Boonton, N. J. High-frequency apparatus. 2,611,123, Sept. 16.

Polytechnic Institute of Brooklyn, assignee: *See*—
Weber, Ernst, and Johnson.

Ponstingl, John C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switch. 2,611,050, Sept. 16.

Pope, Paul M., Greenwich, Conn., assignor to A. Kimball Company, New York, N. Y. Lock seal suitable for manufacture in plastics. 2,610,879, Sept. 16.

Potekin, Gus G., assignor to Richberry Electric Co., Chicago, Ill. Electric hand lantern of the horizontally elongated type. 2,611,072, Sept. 16.

Potter, Cecil A.: *See*—
Duesberg, Hubert G., and Potter.

Pouell, Harry E., Loganaport, Ind. Vibrator. 2,611,015, Sept. 16.

Pouget, Louis M., Les Garennes near Vallieres, France. Apparatus for the preparation of steeped beverages. 2,610,571, Sept. 16.

Poupitch, Ouigliesa J., assignor to Illinois Tool Works, Chicago, Ill. Lock retainer. 2,610,500, Sept. 16.

Powell, Leonard A., Hyde Park, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Cowl fastener. 2,610,378, Sept. 16.

Powers, Donald M., Boston, assignor to Raytheon Manufacturing Company, Newton, Mass. Electronic discharge device of the cavity resonator type. 2,611,110, Sept. 16.

Prestinari, Eugen, Summit, assignor to Gemex Company, Union, N. J. Making bracelet chains. 2,610,463, Sept. 16.

Pruyn, Leonard L., Los Angeles, Calif. Automatic electric selective silver coin changer. 2,610,721, Sept. 16.

Pugh, Laura S., Smyrna, Tenn. Molding mop. 2,610,346, Sept. 16.

Purcell, Howard F. Dayton, and E. K. Butler, Xenia, assignors to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Water softening apparatus. 2,610,945, Sept. 16.

Purex Corporation, Ltd., assignee: *See*—
Hinshaw, Jerrold O.

Puster, Louis M., Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company. Hydraulic corrugating machine. 2,610,667, Sept. 16.

Puster, Louis M., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn. Steam water heater. 2,610,837, Sept. 16.

Radio Corporation of America, assignee: *See*—
Cook, Frank E.
Duncan, Robert K.
Faulkner, Richard D., and Bentley.
Friend, Albert W.
Graham, George K.
Harvy, Robert L.
Jenny, Dietrich A.
Mendelson, Hans.
Sass, Earl J., and Mackey.
Wolff, Irving.

Raff, Rudolf A. V., and G. H. Tomlinson, Jr., Cornwall, Ontario, assignors to Howard Smith Paper Mills Limited, Montreal, Quebec, Canada. Oxidized alkali lignin as a rubber reinforcing agent. 2,610,954, Sept. 16.

Ragan, Ralph, Atlanta, Ga. Spinning, twisting, and like apparatus. 2,610,461, Sept. 16.

Raimond, William A.: *See*—
McSheehy, Justin A., and Raimond.

Ralston, George, Wilkinsburg, Pa., and E. C. Goggio, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Crystal oscillator ultramicrometer. 2,611,020, Sept. 16.

Randol, Glenn T., St. Louis, Mo. Automotive power transmission control. 2,610,521, Sept. 16.

Rask, Gust S., Duluth, Minn. Deflector for continuous mill. 2,610,533, Sept. 16.

Rasmussen, Christian O., Copenhagen, Denmark. Plant for drying of solid materials. 2,610,412, Sept. 16.

Ratcliff, Edwin L., Hamilton, Colo. Toggle actuated quick action C-clamp. 2,610,662, Sept. 16.

Rawlins, Charlotte M., administratrix: *See*—
Rawlins, Herbert L.

Rawlins, Herbert L.: *See*—
Lindstrom, Ture, Sandin, and Rawlins.

Rawlins, Herbert L., deceased, Pittsburgh, Pa., by C. M. Rawlins, administratrix, Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,611,058, Sept. 16.

Raymond Engineering Laboratory, Inc., assignee: *See*—
Campbell, Paul J.

Raytheon Manufacturing Company, assignee: *See*—
Powers, Donald M.
Rockwood, Alan C., and Felsenthal.

Read, Chester L., Westfield, N. J., assignor to Standard Oil Development Company. Extraction process. 2,610,942, Sept. 16.

Reading, Harry L., Flemington, N. J. Brake fluid leak detector. 2,611,048, Sept. 16.

Rebmann, Paul, Wayne, Mich. Roller skate antifriction bearing. 2,610,897, Sept. 16.

Redmond Company, Inc., assignee: *See*—
Latta, Edward, and Woltanski.

Reid, John D.: *See*—
Daul, George C., and Reid.

Rembold, Albert A., San Francisco, Calif. Card sorting device. 2,610,632, Sept. 16.

Rex, Harold B., Falls Church, Va. Inductance-capacitance resonance circuit. 2,611,094, Sept. 16.

Rhys-Jones, John E.: *See*—
Anderson, Edward G. O., Blundell, and Rhys-Jones.

Rice, Harold W.: *See*—
Eskin, Samuel G., and Rice.

Richardson, Hershel C.: *See*—
Richardson, Paul B., and H. C.

Richardson, Paul B., and H. C., Alexandria, Ind. Electric safety switch. 2,611,061, Sept. 16.

Richberry Electric Co., assignee: *See*—
Potekin, Gus G.

Rickabaugh, William P., Tabor, Iowa. Electrical terminal block. 2,610,996, Sept. 16.

Ridgers, Frederick G., assignor to N. Slater Company, Limited, Hamilton, Ontario, Canada. Crossarm clevis. 2,610,818, Sept. 16.

Ridgers, Frederick G., assignor to N. Slater Company Limited, Hamilton, Ontario, Canada. Ground rod bond. 2,611,001, Sept. 16.

Riedel, Frederick W., Belle Vernon, Pa., assignor to United States Steel Company. Indexing device. 2,610,551, Sept. 16.

Riegel Paper Corporation, assignee: *See*—
Fisher, Jacob I., and Borden.

Ringer, Luther: *See*—
Geldhof, Peter E., and Ringer.

Risdon Manufacturing Company, The, assignee: *See*—
Noyack, Edward.

Robertshaw-Fulton Controls Company, assignee: *See*—
Eskin, Samuel G., and Rice.
Puster, Louis M.
Weber, Victor.
Weber, Victor, and Kunzler.
Weber, Victor, and Russell.

Robinson, Elvin B., Gastonia, and J. C. Costner, assignors to Ideal Industries, Inc., Bessemer City, N. C. Roller neck bearing for textile drafting machines. 2,610,363, Sept. 16.

Roby, Sheldon S., Meriden, assignor to The Stanley Works, New Britain, Conn. Electric mat switch. 2,611,049, Sept. 16.

Rockwood, Alan C., Newton, Mass., and H. D. Felsenthal, Camarillo, Calif., assignors to Raytheon Manufacturing Company, Newton, Mass. Beam power tube. 2,611,098, Sept. 16.

Roe, A. V., Canada Limited, assignee: *See*—
Bobbs, William P.

Rocker, Earl E., Easton, Pa., assignor to Bethlehem Steel Company. Steel frog tie with special clips. 2,611,077, Sept. 16.

Roethel, John H., assignor to Marvel Equipment Corporation, Detroit, Mich. Pivotal joint for window control mechanism. 2,610,876, Sept. 16.

Rokos, Michael P., Oakview, assignor of one-half to T. G. Rokos, Los Angeles, Calif. Backlash take-up device. 2,610,519, Sept. 16.

Rokos, Ted G., assignee: *See*—
Rokos, Michael P.

Rolls-Royce Limited, assignee: *See*—
Ballantyne, David H., and West.

Romaniuk, Mirko, Cleveland, Ohio. Mechanism to facilitate the turning of the pages of a book. 2,610,434, Sept. 16.

Romano, John A., Berkeley Heights, N. J. Producing shingle stock. 2,610,555, Sept. 16.

Romine, James E., Mishawaka, Ind. C-clamp with right-angularly related clamping screws. 2,610,661, Sept. 16.

Rosati, Romolo J., Philadelphia, and J. D. Somers, Chester, Pa. Demountable form for pouring concrete. 2,610,381, Sept. 16.

Roth, John D., and K. D., Stowe, Pa. Hilling attachment for rotary tilling machines. 2,610,561, Sept. 16.

Roth, Kenneth D.: *See*—
Roth, John D., and K. D.

Rowe, William W., Cincinnati, assignor to Cincinnati Industries, Inc., Lockland, Ohio. Creped paper product and process. 2,610,935, Sept. 16.

Rowland, Ernest L., Jr., Jacksonville, Fla. Blood testing apparatus. 2,610,541, Sept. 16.

Rowland, James W., Jackson, Mich. Fluid pressure booster through differential lever and equivalent structure. 2,610,469, Sept. 16.

Royer, Celestine A., assignor to R. H. Bishop Company, Champaign, Ill. Sheet metal cutting tool. 2,610,398, Sept. 16.

Rubin, Harry, Belle Harbor, N. Y. Condenser lens arrangement for projectors. 2,610,546, Sept. 16.

Ruderfer, Martin, Brooklyn, N. Y. Microwave tube. 2,611,104, Sept. 16.

Russell, Thomas F., Fergus, Ontario, Canada. Jet circulation washing machine. 2,610,499, Sept. 16.

Russell, William J.: *See*—
Weber, Victor, and Russell.

Rydbeck, Gösta, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Electric lighting arrester. 2,611,107, Sept. 16.

Rydbeck, Gösta, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Electrical lighting arrester. 2,611,108, Sept. 16.

Sabin Company Gloves, assignee: *See*—
Sabin, Irene E.

Sabin, Irene E., assignor to Sabin Company Gloves, Youngstown, Ohio. Welder's glove. 2,610,326, Sept. 16.

Safety-Fuel Incorporated, assignee: *See*—
Laliberte, Albert J.

Sakarash, William: *See*—
McMillin, James R., and Sakarash.

Salter, Frank S.: *See*—
Henschker, Erhard, and Salter.

Sandin, Jerome: *See*—
Lindstrom, Ture, Sandin, and Rawlins.

Saslaw, Otto, Red Bank, N. J., assignor to Vickers Incorporated, Detroit, Mich. Semiconductive cell. 2,610,386, Sept. 16.

Sass, Earl J., Oaklyn, and D. Mackey, Haddon Heights, N. J., assignors to Radio Corporation of America. Printed circuit structure for high-frequency apparatus. 2,611,010, Sept. 16.

Sattler, Stephen, Tulsa, Okla. Copyholder. 2,610,610, Sept. 16.

Saunders Valve Company Limited, assignee: *See*—
Sutton, Frank.

Schaap, Theodore, Muskegon, Mich. Roll partition. 2,610,681, Sept. 16.

Schatzman, George W., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield mounting. 2,610,866, Sept. 16.

Scheinman, Arnold H.: *See*—
Blanton, William B., and Scheinman.

Schellentrager, Eugene W., Shaker Heights, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio. Scale weight totalizing device. 2,610,843, Sept. 16.

Schenavar, Harold E., Detroit, Mich. Outboard motor with auxiliary service pump. 2,610,602, Sept. 16.

Schenck, Leslie M., Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Preparing amino aroyl acetonitriles. 2,610,979, Sept. 16.

Scherer, Patrick H., Hot Springs, S. Dak. Fishing creel. 2,610,758, Sept. 16.

Schieser, Warren J., and J. F. Kelley, assignors to The Exact Weight Scale Company, Columbus, Ohio. Spacing mechanism. 2,610,725, Sept. 16.

Schlussel, Joseph, New York, N. Y. Sachet pocket for brassières. 2,610,325, Sept. 16.

Schmid, John H., assignor to J. A. Zurn Manufacturing Company, Erie, Pa. Strainer. 2,610,741, Sept. 16.

Schmitt, Ralph J.: *See*—
Sifferd, Robert H., and Schmitt.

Schoenmakers, Pieter J., and W. L. van de Putte, Delft, Netherlands, assignors to Shell Development Company, Emeryville, Calif. Apparatus for the indirect heating of fluids. 2,610,842, Sept. 16.

Schonert, Koester E., assignor to Electro Craft Incorporated, Stamford, Conn. Vehicle tire traction device. 2,610,665, Sept. 16.

Schopp, Otto, Phoenix, Arix. Water faucet. 2,610,650, Sept. 16.

Schreckengost, Harold C., Erie, Pa. Ventilating device for automobiles. 2,610,566, Sept. 16.

Schroeder, Bernard A.: *See*—
Fleischmann, Lester K., and Schroeder.

Schroeder, Henry F., Milwaukee, Wis. Apparatus for reducing the porosity of castings. 2,610,372, Sept. 16.

Schueller, Eugène, assignor to Societe L'Oreal, Paris, France. Hair-dye compositions. 2,610,941, Sept. 16.

Schuettpelz, Alfred, Suring, Wis. Vehicle bumper. 2,610,881, Sept. 16.

Schultz, Carl, Milford, assignor to United Aircraft Corporation, East Hartford, Conn. Power boost surface control. 2,610,814, Sept. 16.

Schumacher, Erwin A., Cleveland, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Acceleration of vaporization of chlorine in a battery. 2,610,985, Sept. 16.

Schwab, Arthur W.: *See*—
Evans, Cyril D., Schwab, and Cowan.

Schwarz, Adolf: *See*—
Holmes, John R., and Schwarz.

Schweiter Ltd., assignee: *See*—
Schweiter, Walter.

Schweiter, Walter, assignor to Schweiter Ltd., Horgen, Switzerland. Automatic bobbin unwinding device. 2,610,805, Sept. 16.

Schworm, Louis, Jr., Washington, D. C., assignor to Swormco, Inc. Mattress protector. 2,610,336, Sept. 16.

Scophony-Baird Limited, assignee: *See*—
Anderson, Edward G. O., Blundell, and Rhys-Jones.

Scott, Earnest H., Burlington, N. C. Thread guide. 2,610,494, Sept. 16.

Scottish Seaweed Research Association, assignee: *See*—
Hay, John M., and McIver.
MacKenzie, William.

Scovill Manufacturing Company, assignee: *See*—
Balasevich, John J.

Seaberg, Ernest E., Brooklyn, assignor to Carnoy Products Corporation, Elmsford, N. Y. Fire extinguisher. 2,610,692, Sept. 16.

Seagren, Carl E., and P. W. Mowll, assignors to Carl Seagren Enterprises, Brooklyn, N. Y. Article for decorating cakes. 2,610,588, Sept. 16.

Seagren, Carl, Enterprises, assignee: *See*—
Seagren, Carl E., and Mowll.

Sedgwick, Robert K., Oak Park, assignor to American Steel Foundries, Chicago, Ill. Servo control for fluid motors. 2,610,614, Sept. 16.

Seeburg, J. P., Corporation, assignee: *See*—
Davis, Hugh H.
Kenney, Mahlon W.

Seismograph Service Corporation, assignee: *See*—
Hawkins, James E.

Servel, Inc., assignee: *See*—
Berry, Norton E.
Whitlow, Eugene P.

Shaff, Ernest H., Spring Lake, Mich. Slidable outer jaw plier-type wrench. 2,610,534, Sept. 16.

Shaker, John D., Oakland, Calif. Screw driver for operating on pole shoes. 2,610,659, Sept. 16.

Shamos, Morris H.: *See*—
Bosch, Carl, and Shamos.

Shannon, Harold S., Detroit, Mich., assignor to National Steel Corporation. Building framework. 2,610,708, Sept. 16.

Shannon, Harold S., Detroit, Mich., assignor to National Steel Corporation. Structural frame foundation. 2,610,710, Sept. 16.

Shannon, Harold S., and T. B. Hurd, Detroit, Mich., assignors to National Steel Corporation. Building structure. 2,610,707, Sept. 16.

Sharman, Herbert E.: *See*—
Jennings, Albion H., and Sharman.

Sharp, Charles L.: *See*—
Pine, Cecil C., and Sharp.

Shaw, Burton E.: *See*—
Cade, Phillip J., and Shaw.

Shaw-Walker Company, The, assignee: *See*—
Burdick, John S.

Sheaffer, W. A., Pen Company, assignee: *See*—
Martin, Lynn P.

Shell Development Company, assignee: *See*—
Schoenmakers, Pieter J., and van de Putte.

Sherosky, Frank, Detroit, Mich. Straight safety razor. 2,610,396, Sept. 16.

Sherwood, Robert C.: *See*—
Adams, Clarence R., Sherwood, and Mouron.

Short, Graham H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of thiols and thioethers. 2,610,981, Sept. 16.

Siemon, Karl O., Westfield, N. J. Bin level controller. 2,611,044, Sept. 16.

Sifferd, Robert H., Clarendon Hills, and R. J. Schmitt, assignors to Armour and Company, Chicago, Ill. Surgical sponge and the preparation thereof. 2,610,625, Sept. 16.

Signode Steel Strapping Company, assignee: *See*—
Leslie, John H., II.

Silver, Sidney, Brooklyn, N. Y. Safety electric outlet. 2,610,999, Sept. 16.

Simmons, Lillian P., and F. J. Connova, Chicago, Ill. Work supporting and guiding device for shoe sewing machines. 2,610,597, Sept. 16.

Simms, Lewis W., Fairville, New Brunswick, Canada. Bristle and handle retaining unit for brushes. 2,610,345, Sept. 16.

Simpson, Herbert, Corporation, assignee: *See*—
McIlvaine, Robert L.

Sinclair Refining Company, assignee: *See*—
Kleinholz, Milton P.
Nelson, John W.

Sivalls, Tanks, Inc., assignee: *See*—
Lovelady, Isaac W., and Kroeker.

Slade, Ernest H., Los Alamos, N. Mex. Frozen food locker partition device. 2,610,759, Sept. 16.

Slater, N., Company, Limited, assignee: *See*—
Ridgers, Frederick G.

Slonneger, John L., Scotia, N. Y., assignor to General Electric Company. Thermally actuated mercury switch. 2,611,057, Sept. 16.

Slovin, David G., Providence, R. I., assignor to United States Rubber Company, New York, N. Y. Prevention of pinking in rubber articles containing di-beta-naphthyl-para-phenylene diamine antioxidant. 2,610,983, Sept. 16.

Smith, George L. L., Dallas, Tex. Tractor lug. 2,610,898, Sept. 16.

Smith, Howard, Paper Mills Limited, assignee: *See*—
Raff, Rudolf A. V., and Tomlinson.

Smith, Jane E., New London, Conn. Thimble. 2,610,776, Sept. 16.

Smith, Prevost F., San Diego, Calif. Parachute deploying means. 2,610,815, Sept. 16.

Smith, Wendell V.: *See*—
Ewart, Roswell H., and Smith.

Smith, Wilbert B., Ottawa, Ontario, Canada. Apparatus for analyzing a curve upon a chart. 2,610,542, Sept. 16.

Smith, William R., Philadelphia, Pa., assignor to The A. C. Gilbert Company, New Haven, Conn. Automatic puffing unit for toys. 2,610,437, Sept. 16.

Smith, William R., Philadelphia, Pa., assignor to The A. C. Gilbert Company, New Haven, Conn. Stack recharged puffing unit for toys. 2,610,438, Sept. 16.

Smith, Willis E., Springfield, Oreg. Pneumatic hammering machine for cleaning rollers. 2,610,350, Sept. 16.

Smullin, Louis D., Arlington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Automatic frequency control circuit. 2,611,092, Sept. 16.

Smyers, William H., Westfield, and D. W. Young, Roselle, N. J., assignors to The Dow Chemical Company, Midland, Mich. Styrene copolymer mixtures. 2,610,962, Sept. 16.

Smyth, George F., assignee: *See*—
Card, Kenneth F.

Snow, Barton H., Cincinnati, Ohio, assignor to General Electric Company. Motion translating device. 2,610,520, Sept. 16.

Societe Anonyme des Forges et Chantiers de la Mediterranee, assignee: *See*—
Valensi, Jacques.

Societe d'Electronique et d'Automatisme, assignee: *See*—
Masson, Claude M. E.

Societe L'Oreal, assignee: *See*—
Schueller, Eugène.

Societe Rateau (Societe Anonyme), assignee: *See*—
Imbert, Roger J., and Anxionnaz.

Society "La Radio Industrie," S. A., assignee: *See*—
Vorms, Armand.

Solvay & Cie, assignee: *See*—
Deprez, Charles, and Basilewsky.

Somers, James D.: *See*—
Rosati, Romolo J., and Somers.

Somogyi, Francis P., London, England. Air-lock system for continuously operated vertical cement kilns. 2,610,749, Sept. 16.

Sonoda, Thomas T.: *See*—
Kline, Leo, and Sonoda.

Sontheimer, Carl G., Riverside, Conn. Energy transfer system. 2,611,030, Sept. 16.

Soref, Edward, Milwaukee, Wis. Drawing board clamp. 2,610,435, Sept. 16.

Sorensen & Company, Inc., assignee: *See*—
Levy, Ernest, Jr.

Soundscriber Corporation, The, assignee: *See*—
De Napoli, Anthony C., Jr.

Sowa, Frank J., Cranford, N. J. Hydraulic apparatus. 2,610,949, Sept. 16.

Spencer, Benjamin F., Garden City, N. Y., assignor to The Sperry Corporation. Automatic gain control system. 2,611,081, Sept. 16.

Spencer, Earl F., Vancouver, British Columbia, Canada. Portable saw welding clamp. 2,610,600, Sept. 16.

Sperry Corporation, The, assignee: *See*—
Palmer, Winslow.
Pine, Cecil C., and Sharp.
Spencer, Benjamin F.

Spiller, Joseph M., Honolulu, Territory of Hawaii. Chance controlled game apparatus. 2,610,855, Sept. 16.

Sprigg, Edward A., assignor to H. H. Buggie & Company, Toledo, Ohio. Motion transmitting device. 2,610,525, Sept. 16.

Springer, William S.: *See*—
Michaelson, Stanley D., and Springer.

Sprung, Abraham, Brooklyn, N. Y. Design roller. 2,610,582, Sept. 16.

Stager, Charles J., Troy, Ohio. Trouser and skirt hanger. 2,610,775, Sept. 16.

Standard Manifold Company, assignee: *See*—
Fleischmann, Lester K., and Schroeder.

Standard Oil Development Company, assignee: *See*—
Boucher, Frank G.
Clarke, James S.
Gallo, Salvatore G.
Hemminger, Charles E.
Martin, Homer Z., and Mayer.

Standard Oil Development Company, assignee: *See*—
Morway, Arnold J.
Morway, Arnold J., and Howell.
Owen, John J., and Sumerford.
Patterson, John A.
Read, Chester L.

Stanley Home Products, Inc., assignee: *See*—
Bagley, John F., Jr.

Stanley, William E., and C. H. Edwards, Spondon, near Derby, England, assignors to Celanese Corporation of America. Photoelectric controlled device for knitting machines. 2,611,097, Sept. 16.

Stanley Works, The, assignee: *See*—
Roby, Sheldon S.

Stanton, John, Delhi, N. Y. Outdoor clothes bar. 2,610,742, Sept. 16.

Stark, Julian H., Fort Wayne, Ind., assignor to General Electric Company. Adjustable magnetic shunt for permanent magnet generators. 2,610,993, Sept. 16.

Stark, Louis E., Grand Island, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Brazing flux. 2,610,933, Sept. 16.

Staten, Fred W., Laramie, Wyo., assignor to the United States of America as represented by the Secretary of the Interior. Rubber reclaiming oil. 2,610,925, Sept. 16.

Steck, Arch L., Oil City, Pa. Bottle stacker. 2,610,746, Sept. 16.

Steele, James W., North Kansas City, Mo. Garment folding equipment. 2,610,772, Sept. 16.

Steele, Roger C., Oakland, assignor to California Reinforced Plastics Company, Berkeley, Calif. Method of and apparatus for making honeycomb material. 2,610,934, Sept. 16.

Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Shaft seal. 2,610,873, Sept. 16.

Steese, Marcus C., Hamburg, N. Y. Method of and apparatus for burning fumes. 2,610,411, Sept. 16.

Stein, Gustav A., Plainfield, H. C. Vogel, West Orange, and R. G. Valerio, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Recovery of osmium as osmium tetraoxide. 2,610,907, Sept. 16.

Stein, Joseph A., and J. W. Wagner, assignors to Bacharach Industrial Instrument Company, Pittsburgh, Pa. Pressure indicator. 2,610,508, Sept. 16.

Steinman, Robert, and H. C. Courtright, Newark, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio. Interbonded fibrous glass. 2,610,957, Sept. 16.

Stevenson, Halsey B.: *See*—
Cline, Edward T., Pinkney, Plambeck, and Stevenson.

Stewart-Warner Corporation, assignee: *See*—
Marshall, William A., Jr.

Stone, Sidney J., Lyndhurst, Ohio. Adapter and handle for spray guns. 2,610,895, Sept. 16.

Stone, Sidney J., Lyndhurst, Ohio. Delivery table. 2,610,903, Sept. 16.

Stover, Carrell J.: *See*—
Moulton, Robert, and Stover.

Stover, Egbert C.: *See*—
Field, Crosby, and Stover.

Stowe, Henry G., assignee: *See*—
Grier, Verlee P.

Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Spike tooth harrow. 2,610,456, Sept. 16.

Strathaus, John, San Fernando, Calif. Convertible bed and davenport. 2,610,329, Sept. 16.

Streeter, Victor L., Chicago, Ill. Fluid temperature control device. 2,610,795, Sept. 16.

Stromberg-Carlson Company, assignee: *See*—
Gratian, Joseph W.

Stuart, William W., Des Moines, Iowa. Controlling air pressure in buildings. 2,610,565, Sept. 16.

Stuck, Harold D., Andover, assignor to John W. Bolton & Sons, Inc., Lawrence, Mass. Jordan engine plug construction. 2,610,554, Sept. 16.

Sumerford, Simpson D.: *See*—
Owen, John J., and Sumerford.

Sutliffe, Frank C., Mill Valley, Calif. Adhesive pickup device. 2,610,882, Sept. 16.

Sutton, Alton C., Rochelle, Ill. Asparagus picker. 2,610,397, Sept. 16.

Sutton, Frank, assignor to Saunders Valve Company Limited, Cwmbran, Newport, England. Automatic stop and vent valve. 2,610,819, Sept. 16.

Sutton, Jay E., Detroit, Mich. Wheeled table for transferring invalids. 2,610,330, Sept. 16.

Swazey, George A., Milo, Maine. Railroad switch. 2,611,076, Sept. 16.

Swift & Company, assignee: *See*—
Hensgen, Bernard T.
Mattil, Karl F.

Swormco, Inc., assignee: *See*—
Schworm, Louis, Jr.

Sylvania Electric Products Inc., assignee: *See*—
Bohlke, Paul G.
Casellini, Ezio T.

Taliaferro, David B., Bartlesville, C. F. McClung, Tulsa, and F. G. Mueller, Bartlesville, Okla., assignors to the United States of America as represented by the Secretary of the Interior. Instrument for locating the liquid level in wells. 2,610,506, Sept. 16.

Taylor, Clayton L.: *See*—
Adams, Robert W., and Taylor.

Taylor, Hugh C., Flint, Mich. Caulking composition. 2,610,923, Sept. 16.

Taylor Instrument Companies, assignee: *See*—
Liberatore, Laurence C.

Taylor, Robert J., Birmingham, Ala., assignor to The Perfection Mattress & Spring Company. Protective fire resistant covering for mattresses. 2,610,338, Sept. 16.

Tecalemit Limited, assignee: *See*—
Le Clair, Camille C. S.

Teplitz, Alfred, Pittsburgh, Pa., assignor to United States Steel Company. Universal coupling for rolling-mill spindles. 2,610,488, Sept. 16.

Texas, Company, The, assignee: *See*—
Eckert, George W.
Hutcheson, John W.

Textile Machine Works, assignee: *See*—
Pingel, Henry C.

Thayer, Russell M., Buffalo, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Process of and apparatus for metering a liquefied gas. 2,610,471, Sept. 16.

Thomas, Chester A., Lake Forest, Ill., assignor to Babson Bros. Co. Suspended milker. 2,610,609, Sept. 16.

Thomas, Orel J., Tecumseh, Ontario, Canada. Fish bait. 2,610,429, Sept. 16.

Thompson, Harold A., Silverton, Oreg. Bending machine. 2,610,666, Sept. 16.

Thompson, Wallace A., Pontiac, Mich. Potato cutter. 2,610,664, Sept. 16.

Thomson, Andrew F., Highland Park, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Neoprene-phenolic adhesive cement. 2,610,910, Sept. 16.

Thornwaid, Everett D., assignor to Clements Mfg. Co., Chicago, Ill. Bag support and handle for vacuum cleaners. 2,610,702, Sept. 16.

Thorp, Roger B., assignor to Westinghouse Brake and Signal Company Limited, London, England. Mimic diagram panel. 2,611,018, Sept. 16.

Tide Water Associated Oil Company, assignee: *See*—
Nigh, George W.

Titus, Grover I., Laramie, Wyo. Rail splice. 2,610,799, Sept. 16.

Todd, C., trustee, assignee: *See*—
Koch, Frederick.

Tomlinson, George H., Jr.: *See*—
Raff, Rudolf A. V., and Tomlinson.

Tootal Broadhurst Lee Company Limited, assignee: *See*—
Foulds, Robinson P.

Touchman, William S., Milwaukee, Wis. Fabricating mechanism. 2,610,550, Sept. 16.

Tschaepe, Kurt P., New York, N. Y. Door locking astragal. 2,610,368, Sept. 16.

Tunley, Allan A., assignor to Baker Perkins Limited, Peterborough, England. Multiroll chocolate refiner and like machines. 2,610,800, Sept. 16.

Tupper, Earl S., Upton, Mass. Pitcher or the like container. 2,610,490, Sept. 16.

Udy, Marvin J., Niagara Falls, N. Y., assignor to Guaranty Investment Corporation, Limited, Montreal, Quebec, Canada. Metallurgy. 2,610,911, Sept. 16.

Unger, John E., Chicago, Ill. Cricket cane. 2,610,441, Sept. 16.

Union Carbide and Carbon Corporation, assignee: *See*—
Lanham, William M.
Schumacher, Erwin A.
Stark, Louis E.
Thayer, Russell M.

Union City Body Company, Inc., assignee: *See*—
Bromagem, Irl R.

Union Starch & Refining Company, assignee: *See*—
Cleland, James E.

United Aircraft Corporation, assignee: *See*—
Schultz, Carl.

United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.
Bedford, William A., Jr.
Churchill, Wilmer H.
Cochran, Clarence W.
Powell, Leonard A.

United Shoe Machinery Corporation, assignee: *See*—
Morrill, Alfred R.
U. S. Gas Generator Corp., assignee: *See*—
De Wees, Charles V.
United States Rubber Company, assignee: *See*—
Doak, Kenneth W., and Wilzbach.
Ewart, Roswell H., and Smith.
Slovin, David G.
United States Steel Company, assignee: *See*—
Chase, Charles R., and Bliss.
Coan, Richard L.
Michaelson, Stanley D., and Springer.
Riedel, Frederick W.
Tepiitz, Alfred.
Universal Oil Products Company, assignee: *See*—
Hunter, Robert K.
Valensi, Jacques, Marseille, assignor of one-half to Societe Anonyme des Forges et Chantiers de la Mediterranee, Paris, France. Smoke stack in particular for land vehicles and ships. 2,610,570, Sept. 16.
Valentin, André, Belfort, France, assignor to General Electric Company. Dynamoelectric machine. 2,611,122, Sept. 16.
Valentine, Frank E., Schenectady, N. Y., assignor to General Electric Company. Great circle course computer. 2,610,403, Sept. 16.
Valerio, Raymond G.: *See*—
Stein, Gustav A., Vogel, and Valerio.
Valeton, Josué J. P., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit arrangement for generating saw-tooth oscillations. 2,611,089, Sept. 16.
Van Camp Donut System, Inc., assignee: *See*—
Van Campen, Walter A.
Van Campen, Walter A., assignor to Van Camp Donut System, Inc., Chicago, Ill. Doughnut cutter. 2,610,590, Sept. 16.
Vandenberg, Edwin J., assignor to Hercules Powder Company, Wilmington, Del. Homogeneous polymerization of vinylidene compounds using a hydroperoxide catalyst and a basic nitrogen compound. 2,610,965, Sept. 16.
Van de Putte, Willem L.: *See*—
Schoenmakers, Pieter J., and van de Putte.
Vanderbilt, R. T., Co., Inc., assignee: *See*—
Hutchins, Francis E., and Golding.
Vandercook, David D., Evanston, E. O. Vandercook, Kenilworth, and R. L. Pelland, assignors, by mesne assignments, to Vandercook & Sons, Inc., Chicago, Ill. Multicolor proof press. 2,610,581, Sept. 16.
Vandercook, Edward O.: *See*—
Vandercook, David D., E. O., and Pelland.
Vandercook & Sons, Inc., assignee: *See*—
Vandercook, David D., E. O., and Pelland.
Van der Lee, Albertus, W. L. L. Vivie and K. R. Hofland, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cutter head of a dry-shaving device. 2,610,395, Sept. 16.
Van Haaften, Egbert: *See*—
Hawks, Douglass, Jr., and Van Haaften.
Van Meurs, Johan F., and A. Venema, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Switch. 2,611,062, Sept. 16.
Vanvick, Isak, Minneapolis, Minn. Rotary snowplow 2,610,414, Sept. 16.
Varela, Arthur A., and R. A. Herring, Jr., Washington, D. C. Duplexing device for transceiver antenna systems. 2,611,079, Sept. 16.
Vaughn, Albert E., Orange, N. J. Hair curler with rotatably adjustable barrel. 2,610,639, Sept. 16.
Veeder-Root Incorporated, assignee: *See*—
Bliss, Harvey N.
Velsicol Corporation, assignee: *See*—
Kleiman, Morton.
Venema, Albertus: *See*—
Van Meurs, Johan F., and Venema.
Vickers-Armstrongs Limited, assignee: *See*—
Firman, Reginald A.
Vickers Incorporated, assignee: *See*—
Saslaw, Otto.
Victory, Frederick C., Milford, Conn., assignor to Moore Special Tool Co. Inc., Rotary table. 2,610,552, Sept. 16.
Visual Planning Equipment Co., Inc., assignee: *See*—
Dasey, Homer H.
Vitarama Corporation, The, assignee: *See*—
Waller, Fred, and Babish.
Vivie, Wilhelmus L. L.: *See*—
Van der Lee, Albertus, Vivie, and Hofland.
Vogel, Henry C.: *See*—
Stein, Gustav A., Vogel, and Valerio.
Vojak, Joseph F.: *See*—
Enderle, Herman, and Vojak.
Vorms, Armand, assignor to Society "La Radio Industrie," S. A., Paris, France. Television transmission system. 2,611,028, Sept. 16.
Vosbikian, Peter S., and T. S., Melrose, Pa. Blade clamping device. 2,610,401, Sept. 16.
Vosbikian, Thomas S.: *See*—
Vosbikian, Peter S., and T. S.
Vote, Harold W., assignor to Eagle Manufacturing Company, Los Angeles, Calif. Lighting fixture clamp. 2,610,816, Sept. 16.
Wagner, Bruce O., Inglewood, Calif., assignor to North American Aviation, Inc. Automatic drain valve. 2,610,645, Sept. 16.
Wagner, John W.: *See*—
Stein, Joseph A., and Wagner.
Wallace, James M., East McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reclosing circuit breaker. 2,611,053, Sept. 16.
Wallauschek, Richard, Marly Le Roi, France. Traveling wave amplifier tube. 2,611,101, Sept. 16.
Waller, Fred, and R. C. Babish, Huntington, assignors to The Vitarama Corporation, Hunginton Station, N. Y. Apparatus for projecting matched mosaic picture images. 2,610,544, Sept. 16.
War, United States of America as represented by the Secretary of, assignee: *See*—
Alford, Andrew.
Borland, Eileen E., Hobart, Nawrocki, and Neher.
Brunetti, Cledo.
Dicke, Robert H.
Hollenberg, Arthur V.
Irvin, Jack H.
Johnston, Lawrence H.
Moore, Cyril A.
Smullin, Louis D.
Ward Canning Company, assignee: *See*—
Ward, John W.
Ward, John W., assignor to Ward Canning Company, Vernon, N. Y. Automatic steering device for bean picking machines. 2,610,562, Sept. 16.
Warner, Edmund A., Euclid, assignor to The Lake Erie Chemical Company, Cleveland, Ohio. Multicolored manual signal light. 2,611,019, Sept. 19.
Wasserman, Max, Chestnut Hill, Mass. Skylight construction. 2,610,593, Sept. 16.
Watson, Thomas E., Tewksbury, Mass. Expansion lease comb. 2,610,383, Sept. 16.
Watson, Thomas E., Tewksbury, Mass. Drop wire. 2,610,656, Sept. 16.
Watt, Naomi L., and H. F. Fehlberg, Detroit, Mich. Douche nozzle. 2,610,627, Sept. 16.
Waugh Equipment Company, assignee: *See*—
Dilg, Walter C., and Munro.
Wayman, Sidney C., Darthill, March, England. Oil pressure operated electric switch. 2,611,045, Sept. 16.
Weakley, Francis B.: *See*—
Montgomery, Edna M., Conway, and Weakley.
Weaver, Clark H., Berkeley, Calif. Attachment for door knobs. 2,610,877, Sept. 16.
Weber, Ernst, Mount Vernon, and S. A. Johnson, New York, assignors to Polytechnic Institute of Brooklyn, Brooklyn, N. Y. Apparatus for the formation of metallic films by thermal evaporation. 2,610,606, Sept. 16.
Weber, Victor, Greensburg, and W. J. Russell, Jeannette, assignors to Robertshaw-Fulton Controls Company, Youngwood, Pa. Safety control and ignition apparatus for gaseous fuel burners. 2,610,679, Sept. 16.
Weber, Victor, assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Control system for fluid fuel burners. 2,610,682, Sept. 16.
Weber, Victor, and W. S. Kunzler, Greensburg, assignors to Robertshaw-Fulton Controls Company, Youngwood, Pa. Thermogenerator and pilot burner assembly. 2,610,984, Sept. 16.
Webster, Benjamin C., Southport, assignor to The Bryant Electric Company, Bridgeport, Conn. Lamp holder for double ended tubular lamps. 2,610,997, Sept. 16.
Webster, Benjamin C., Southport, Conn., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,611,055, Sept. 16.
Weinberg, Edwin A., Troy, and G. W. White, Schenectady, N. Y. Valve. 2,610,821, Sept. 16.
Weir, William, assignor to Mavor & Coulson, Limited, Glasgow, Scotland. Scraper conveyer. 2,610,730, Sept. 16.
Wellens, William H., Chicago, Ill. Pivotally mounted plug and vaporizer. 2,611,068, Sept. 16.
Wells, Inc., assignee: *See*—
Burgesser, Leslie D.
Wells, Philip H., Chatham, N. J., and C. H. Cramer, Great Neck, assignors to The Western Union Telegraph Company, New York, N. Y. Submarine cable overcurrent protective device. 2,611,032, Sept. 16.
Welty, Cleo M., Wichita, Kans. Sectional three-dimensional puzzle. 2,610,856, Sept. 16.
Wendling, Mildred L., Portland, Oreg. Feeding spoon. 2,610,400, Sept. 16.
West, Edward E., Richmond, Va. Industrial bag stringing machine. 2,610,595, Sept. 16.
West, Harold E. W.: *See*—
Ballantyne, David H., and West.
West, Vern W., Bennett, Colo. Coin controlled finid dispensing apparatus. 2,610,722, Sept. 16.
Western Electric Company, Incorporated, assignee: *See*—
Miller, Merton R.
Western Railway Equipment Company, assignee: *See*—
Pietzsch, Frank H.
Western Union Telegraph Company, The, assignee: *See*—
Blanton, William B., and Scheinman.
Wells, Philip H., and Cramer.
Westinghouse Air Brake Company, assignee: *See*—
Jackel, Arthur P.
Lockhart, William K.
Marlowe, Elbert W.
Pascoe, Frank T., and Jerome.

Westinghouse Brake and Signal Company Limited, assignee: *See*—
Thorp, Roger B.
Westinghouse Electric Corporation, assignee: *See*—
Alben, Frank L.
Bailey, Francis T.
Boykin, John R.
Brecht, Winston A.
Cuttino, William H.
Fisher, Martin H.
Frink, Russell E., and Dickinson.
Hibbard, Lloyd J.
Immel, Ralph B., and Pierce.
James, William G.
Johns, Francis J., and Owens.
Larson, Gilbert C.
Lenehan, Bernard E.
Lindstrom, Ture, Sandin, and Rawlins.
Miller, Ernest F.
Penney, Gaylord W., and Hewitt.
Ponstingl, John C.
Ralston, George, and Goggio.
Rawlins, Herbert L.
Wallace, James M.
Webster, Benjamin C.
Wiese, David B.
Wiese, David B., and Bernarde.
Wright, Robert L., and Hayes.
Wheat, Grant, assignor to Koehler Manufacturing Company, Marlboro, Mass. Reflector apparatus for miners' lamps. 2,611,073, Sept. 16.
Wheelden, Harry L., Bangor, Maine. Extension ladder. 2,610,875, Sept. 16.
Wheelock, Carlton M., Milwaukee, Wis. Gas burner with secondary air feed. 2,610,676, Sept. 16.
Whirlpool Cooperation, assignee: *See*—
Geldhof, Peter E., and Ringer.
White, Charles H., assignor to Deere & Company, Moline, Ill. Disk gang spring biasing means. 2,610,453, Sept. 16.
White, Fred L., assignor to Crane Packing Company, Chicago, Ill. Apparatus for finishing cylindrical articles. 2,610,450, Sept. 16.
White, George W.: *See*—
Weinberg, Edwin A., and White.
White, Thomas L., assignor to The Commercial Shearing & Stamping Co., Youngstown, Ohio. Tunnel lining structure and gauge therefor. 2,610,470, Sept. 16.
Whiting Corporation, assignee: *See*—
Griffiths, Clyde C.
Whitlow, Eugene P., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Heat transfer device. 2,610,481, Sept. 16.
Whitmer, Arnold M., assignee: *See*—
Burke, Donald J.
Wiese, David B., Highland, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Frequency compensated iron-vane instrument. 2,610,988, Sept. 16.
Wiese, David B., East Orange, and H. L. Bernarde, Union, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical measuring instrument. 2,610,989, Sept. 16.
Wilcock, Robert C., and P. E. Hastings, Pomona, Calif. Circuit tester for battery-energized circuits. 2,611,008, Sept. 16.
Wilcox, Warren, and D. E. Daniel, Oakland, assignors to Modern Products, Inc., Los Angeles, Calif. Quick-exhausting valve. 2,610,859, Sept. 16.
Willard Storage Battery Company, assignee: *See*—
Havlick, Howard T.
Williams, Chester M., Toulon, Ill. Tilting dump wagon with adjustable body pivot. 2,610,892, Sept. 16.
Williams, William A., assignor to The American Pulley Company, Philadelphia, Pa. Adjustable diameter sheave. 2,610,515, Sept. 16.
Williamson, Archie O.: *See*—
Bros, Chester W., Williamson, and Guignard.
Willis, Ralph J., Oceanside, Calif. Portable rug or carpet cleaner. 2,610,343, Sept. 16.
Wilson, Elmer A., Beech Grove, Ind. Electronic vibrator insulator. 2,611,064, Sept. 16.
Wilson, Leo W., San Diego, Calif. Automatic impedance recorder. 2,611,005, Sept. 16.
Wilzbach, Kenneth E.: *See*—
Doak, Kenneth W., and Wilzbach.
Wing, Charles A., Ann Arbor, Mich. Silk screen printing press. 2,610,579, Sept. 16.
Winson, Jonathan, New York, N. Y. Combination juice extracting machine. 2,610,574, Sept. 16.
Winter & Company, Inc., assignee: *See*—
Martin, Lloyd M.
Witzel, Ernst, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Control system utilizing single point ignition. 2,610,680, Sept. 16.
Wm. Bros. Boiler and Manufacturing Company, assignee: *See*—
Bros, Chester W., Williamson, and Guignard.
Wolff, Irving, Princeton, N. J., assignor to Radio Corporation of America. Pulse operated gaseous electron tube circuits. 2,611,090, Sept. 16.
Woltanski, Adolph J.: *See*—
Latta, Edward, and Woltanski.
Wood, Thurman C.: *See*—
Gayner, Raymond D., Wood, and Copold.
Woodruff, Kenneth O., Englewood, and R. L. Krier, Walsenburg, Colo. Diesel-type engine for toy aircraft. 2,610,616, Sept. 16.
Woodson, Thomas T., Bridgeport, Conn., assignor to General Electric Company. Rotating shaft seal. 2,610,871, Sept. 16.
Worth, Francis C., Ridgewood, N. Y. Device for making tubes from sheet material. 2,610,556, Sept. 16.
Wright, Beaumont B., assignee: *See*—
Edwards, James M.
Wright, Robert L., North Linthicum Heights, and M. E. Hayes, Anne Arundel County, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Therapy X-ray system. 2,611,096, Sept. 16.
Wuertz, Paul P., Melrose, assignor, by mesne assignments, to Minneapolis-Moline Company, Hopkins, Minn. Side tensioner for bales. 2,610,575, Sept. 16.
Yant, William P.: *See*—
Haller, Robert B., and Yant.
Yardley, Frederick W.: *See*—
Gardner, Bryant H., and Yardley.
Yarmak, Julius: *See*—
Pearson, David, and Yarmak.
Young, David W.: *See*—
Smyers, William H., and Young.
Young, Frederick C., Willesden, London, assignor of one-half to George Beaton and Son Limited, London, England Mechanism for imparting rectilinear movement to a member. 2,610,849, Sept. 16.
Young, L. A., Spring & Wire Corporation, assignee: *See*—
Baptista, Americo.
Young, William D., Roslyn, Pa. Umbrella bandoleer. 2,610,778, Sept. 16.
Youngberg, Charles H.: *See*—
Oehler, William P., and Youngberg.
Zepp, Clifton E.: *See*—
Null, George D., and Zepp.
Zijlstra, Paul: *See*—
Boosman, Herman B. R., and Zijlstra.
Zimic, Michael, Lake Success, and A. Miskovsky, Deer Park, N. Y.; said Miskovsky assignor to said Zimic. Yarn feed mechanism for knitting machines. 2,610,493, Sept. 16.
Zurn, J. A., Manufacturing Company, assignee: *See*—
Schmid, John H.
Zygmunt, Anton, Oakland, Calif. Apparatus for attaching elastic bands to garments. 2,610,596, Sept. 16.

LIST OF PLANT INVENTIONS

Chrysanthemum plant. E. S. Boerner. 1,129–32, Sept. 16.
Lilac plant. W. B. Clarke. 1,128, Sept. 16.
Rose plant. S. Poulsen. 1,133, Sept. 16.
Rose plant. M. L. Whisler. 1,134–5, Sept. 16.

LIST OF DESIGN INVENTIONS

Arrow nock. T. R. Raems. 167,771, Sept. 16.
Automobile hood ornament. H. J. Keane. 167,753, Sept. 16.
Bed unit, Nursery. D. F. Kerby. 167,754, Sept. 16.
Bench. W. L. Campbell. 167,738, Sept. 16.
Bobby pin. A. Olevin. 167,766, Sept. 16.
Brush, Paint. A. A. Schmidt. 167,775, Sept. 16.
Cabinet. W. R. Porter. 167,770, Sept. 16.
Cabinet electric air circulator. D. L. McFarland. 167,759, Sept. 16.
Cabinet, Radio. A. R. Dahlberg. 167,742, Sept. 16.
Cabinet, Record. M. Offner. 167,765, Sept. 16.
Cabinet, Telephone utility. B. Applebaum. 167,734, Sept. 16.
Chair or the like, Lounge. J. Luckhardt. 167,761, Sept. 16.
Chest, writing desk, and extension table, Combination. S. T. Anderson. 167,733, Sept. 16.
Chimney. M. L. Bowman. 167,736, Sept. 16.
Clock. F. C. Witmer. 167,787, Sept. 16.
Counter. S. S. Rubaloff. 167,773, Sept. 16.
Cup. R. G. Cowan. 167,741, Sept. 16.
Dispenser, Refrigerated beverage. H. Dreyfuss. 167,744, Sept. 16.
Displaying and dispensing stand, Combined. J. R. Warp. 167,781, Sept. 16.
Dollhouse, Portable. M. Griffith. 167,745, Sept. 16.
Fabric, Embroidered. H. Kaufman. 167,751–2, Sept. 16.
Fabric, Textile. H. Rose. 167,772, Sept. 16.
Fan, Electric. A. W. Corwin. 167,740, Sept. 16.
Field desk and trunk, Combination. A. C. Weiss. 167,782, Sept. 16.
Game board. D. L. Stackhouse. 167,778, Sept. 16.
Grill, waffle iron, and broiler, Combination. J. Morgan. 167,757, Sept. 16.
Grip for cooking range door. R. E. Hitchcock. 167,749, Sept. 16.
Heater, Radiant. M. L. Kornstein. 167,755, Sept. 16.
Heating and cooling pad, Combination. J. J. Dorfman. 167,743, Sept. 16.
Holder and measuring spoons, Combined. B. Hasenstab. 167,747, Sept. 16.
Hood ornament for automobiles. J. Hanscom. 167,746, Sept. 16.
Iron, Travel. R. O. Spencer and B. R. Voight. 167,776, Sept. 16.
Loader unit for farm tractors. J. I. Michaels, C. A. Loesch, K. E. Haddock, and C. J. Davis. 167,758, Sept. 16.
Mirror, Dental. J. R. O'Neil. 167,767, Sept. 16.
Packboard. A. C. H. Weiss and R. W. Ehlers. 167,783, Sept. 16.
Perfume bottle casing. D. L. Spender. 167,777, Sept. 16.
Plaque. D. J. Hennessy. 167,748, Sept. 16.
Plate or similar article, Dinner. C. W. Leigh. 167,763, Sept. 16.
Plate or similar article, Wall. L. Ludwig. 167,760, Sept. 16.
Power unit for a food mixer or the like. R. A. Lambert. 167,756, Sept. 16.
Roast board and food tray, Combined foldable. R. B. Karoff. 167,750, Sept. 16.
Sandal or similar article. W. Braun. 167,737, Sept. 16.
Starting pulley and blower for a gasoline engine, Combined. W. H. Phelps. 167,769, Sept. 16.
Stocking. R. E. Schletter. 167,774, Sept. 16.
Stocking, Lady's. J. J. Moore. 167,764, Sept. 16.
Stocking, Lady's. A. L. Patterson, Sr. 167,768, Sept. 16.
Stocking, Lady's. A. Wilcher. 167,786, Sept. 16.
Table. W. J. Carr. 167,739, Sept. 16.
Telephone tray, lamp, and memorandum pad, Combination. J. P. Whitaker. 167,784–5, Sept. 16.
Tire, Pneumatic. A. H. Steadman. 167,779, Sept. 16.
Tray, Bird feed. B. Yellin. 167,788, Sept. 16.
Tray, Child's compartmented dining. J. N. Ashway. 167,735, Sept. 16.
Tray, Collecting. A. Alba. 167,732, Sept. 16.
Tricycle. S. Steranesak. 167,780, Sept. 16.
Weighing device. J. M. Little. 167,762, Sept. 16.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerated settling of bleach impurities. J. O. Hinshaw 2,610,905, Sept. 16.
Acceleration of vaporization of chlorine in a battery. E. A. Schumacher. 2,610,985, Sept. 16.
Accelerator brake control. C. R. Adams, R. C. Sherwood and B. D. Mouron. 2,610,716, Sept. 16.
Activated sign. A. E. Millard. 2,610,424, Sept. 16.
Adapter and handle for spray guns. S. J. Stone. 2,610,895, Sept. 16.
Adhesive pickup device. F. C. Sutliffe. 2,610,882, Sept. 16.
Adjustable diameter sheave. W. A. Williams. 2,610,515, Sept. 16.
Adjustable magnetic shunt for permanent magnet generators. J. H. Stark. 2,610,993, Sept. 16.
Aerial for very high frequency radio receivers. E. G. O. Anderson, G. G. Blundell and J. E. Rhys-Jones. 2,611,082, Sept. 16.
Air actuated time delay control switch. E. H. Musgrove. 2,610,990, Sept. 16.
Air cleaner for internal-combustion engines. H. Goldberg and M. D. Burrows. 2,610,701, Sept. 16.
Air-lock system for continuously operated vertical cement kilns. F. P. Somogyi. 2,610,749, Sept. 16.
Air operated impact press. R. W. Bryant. 2,610,613, Sept. 16.
Airplane hangar door. J. F. McKee and M. E. Hartzler. 2,610,366, Sept. 16.
Airport taxiway reflector. R. M. Isenberg. 2,610,548, Sept. 16.
Alpha-amino anthraquinone, Preparation of. J. A. McSheehy and W. A. Raimond. 2,610,971, Sept. 16.
Amino aroyl acetonitriles, Preparing. L. M. Schenck. 2,610,979, Sept. 16.
Ammonium sulfate recovery. R. G. Dunning. 2,610,906, Sept. 16.
Ammunition supply system for automatic firearms. E. C. Fonseca and S. Green. 2,610,549, Sept. 16.
Anchor. T. R. Gardiner. 2,610,601, Sept. 16.
Antenna, Indoor television. J. R. Brough. 2,611,080, Sept. 16.
Antenna system. E. V. Amy and J. G. Aceves. 2,611,086, Sept. 16.
Apparatus for analyzing a curve upon a chart. W. B Smith. 2,610,542, Sept. 16.
Apparatus for attaching elastic bands to garments. A. Zygmunt. 2,610,596, Sept. 16.
Apparatus for cleaning pipes or drains. J. V. O'Brien. 2,610,807, Sept. 16.
Apparatus for controlling the concentration of noncondensable gases in an absorption refrigeration system. N. E. Berry. 2,610,482, Sept. 16.
Apparatus for finishing cylindrical articles. F. L. White. 2,610,450, Sept. 16.
Apparatus for harvesting seaweed underwater. W. MacKenzie. 2,610,459, Sept. 16.
Apparatus for harvesting underwater seaweed. J. M. Hay and R. F. McIver. 2,610,458, Sept. 16.
Apparatus for injection of liquid medicine into drinking water in a conduit. J. W. Goff. 2,610,643, Sept. 16.
Apparatus for making tufted work. W. A. Honeycutt. 2,610,436, Sept. 16.
Apparatus for preparing green corn for canning. O. G. Morral. 2,610,635, Sept. 16.
Apparatus for projecting matched mosaic picture images. F. Waller and R. C. Babish. 2,610,544, Sept. 16.
Apparatus for reducing the porosity of castings. H. F. Schroeder. 2,610,372, Sept. 16.
Apparatus for regulating yarn tension. P. J. Campbell. 2,610,813, Sept. 16.
Apparatus for the formation of metallic films by thermal evaporation. E. Weber and S. A. Johnson. 2,610,606, Sept. 16.
Apparatus for the indirect heating of fluids. P. J. Schoenmakers and W. L. van de Putte. 2,610,842, Sept. 16.
Apparatus for the preparation of steeped beverages. L. M. Pouget. 2,610,571, Sept. 16.
Apparatus including a titanate condenser for amplifying an electrical signal. G. Hepp. 2,611,039, Sept. 16.
Armature mounting for plural electromagnetic relays. G. T. Baker. 2,611,012, Sept. 16.
Armature winder. G. A. Dreese. 2,610,804, Sept. 16.
Aromatic carboxylic acid amides, Preparation of. M. A. Naylor, Jr. 2,610,980, Sept. 16.
Article for decorating cakes. C. E. Seagren and P. W. Mowll. 2,610,588, Sept. 16.
Asparagus picker. A. C. Sutton. 2,610,397, Sept. 16.
Attachment for door knobs. C. H. Weaver. 2,610,877, Sept. 16.
Automatic air painting unit with transverse oscillating action. J. A. Paasche. 2,610,605, Sept. 16.
Automatic balancing system for rotatable article handling machines. L. M. Kahn. 2,610,523, Sept. 16.
Automatic bobbin unwinding device. W. Schweiter. 2,610,805, Sept. 16.
Automatic chuck. R. L. Coan. 2,610,860, Sept. 16.
Automatic curve follower. L. H. Johnston. 2,611,115, Sept. 16.
Automatic drain valve. B. O. Wagner. 2,610,645, Sept. 16.
Automatic electric selective silver coin changer. L. L. Pruyn. 2,610,721, Sept. 16.
Automatic frequency control circuit. L. D. Smullin. 2,611,092, Sept. 16.
Automatic gain control system. B. F. Spencer. 2,611,081, Sept. 16.
Automatic milling cutter grinder. D. A. Cargill. 2,610,449, Sept. 16.
Automatic multicolor airpainting apparatus. J. A. Paasche. 2,610,578, Sept. 16.
Automatic pattern controlled machine tools. W. P. Bobbs. 2,610,447, Sept. 16.
Auomatic puffing unit for toys. W. R. Smith. 2,610,437, Sept. 16.
Automatic steering device for bean picking machines. J. W. Ward. 2,610,562, Sept. 16.
Automatic stop and vent valve. F. Sutton. 2,610,819, Sept. 16.
Automatic stop for dies. R. Krasberg. 2,610,686, Sept. 16.
Automobile-body heater. E. Ludlow. 2,610,833, Sept. 16.
Automobile lift. C. Hall. 2,610,747, Sept. 16.
Automotive power transmission control. G. T. Randol. 2,610,521, Sept. 16.
Auxiliary thrust means for jet-propelled aircraft. R. J. Imbert and R. Anxionnaz. 2,610,465, Sept. 16.
Axial flow compressor. A. Howard. 2,610,786, Sept. 16.
Backlash take-up device. M. P. Rokos. 2,610,519, Sept. 16.
Back rest for chairs. J. S. Burdick. 2,610,671, Sept. 16.
Bag stringing machine, Industrial. E. E. West. 2,610,595, Sept. 16.
Bag support and handle for vacuum cleaners. E. D. Thornwald. 2,610,702, Sept. 16.
Bait carrier. L. D. Jones. 2,610,428, Sept. 16.
Ball hurling device for simulated bowling. M. Huber. 2,610,618, Sept. 16.
Bar: *See*—
  Outdoor clothes bar.
Bascule bridge lock. H. H. Gilbert. 2,610,341, Sept. 16.
Battery and cable carrier. L. Betz. 2,610,987, Sept. 16.
Batting machine. E. R. Overman. 2,610,688, Sept. 16.
Beam alignment device. A. W. Friend. 2,611,003, Sept. 16.
Beam power tube. A. C. Rockwood and H. D. Felsenthal. 2,611,098, Sept. 16.
Bearing: *See*—
  Roller skate antifriction bearing.
Bed and davenport, Convertible. J. Strathaus. 2,610,329, Sept. 16.
Belt drive for papermaking machines. L. Hornbostel. 2,610,517, Sept. 16.
Belt pulley controller for tractors. R. E. Kelly. 2,610,522, Sept. 16.
Bending machine. H. A. Thompson. 2,610,666, Sept. 16.
Bin level controller. K. O. Siemon. 2,611,044, Sept. 16.
Blade clamping device. P. S. and T. S. Vosbikian. 2,610,401, Sept. 16.
Blind landing system. G. E. Hart. 2,611,124, Sept. 16.
Block: *See*—
  Building block. Electrical terminal block.
Blood testing apparatus. E. L. Rowland, Jr. 2,610,541, Sept. 16.
Board: *See*—
  Pad and cover attached ironing board.
Bomb slip and analogous releasable attachment. R. A. Firman. 2,610,887, Sept. 16.
Boring head. W. H. Atkinson. 2,610,529, Sept. 16.
Bottle stacker. A. L. Steck. 2,610,746, Sept. 16.
Boundary marker. A. S. Carlson. 2,610,502, Sept. 16.
Box: *See*—
  Self-locking box. Mud box.
Box. H. L. Metzger. 2,610,781, Sept. 16.

Bracelet chains, Making. E. Prestinari. 2,610,463, Sept. 16.
Brake fluid leak detector. H. L. Reading. 2,611,048, Sept. 16.
Brazing flux. L. E. Stark. 2,610,933, Sept. 16.
Bristle and handle retaining unit for brushes. L. W. Simms. 2,610,345, Sept. 16.
Brush holder and guide. M. A. and E. J. Gaffer. 2,610,344, Sept. 16.
Brush tips, Making. W. C. Marsh. 2,610,896, Sept. 16.
Building block. C. C. Hall. 2,610,503, Sept. 16.
Building construction. T. B. Hurd. 2,610,709, Sept. 16.
Building framework. H. S. Shannon. 2,610,708, Sept. 16.
Building structure. H. S. Shannon and T. B. Hurd. 2,610,707, Sept. 16.
Bundle-binder seal. J. H. Leslie, II. 2,610,374, Sept. 16.
Burner: *See*—
Oil burner.
Flame retaining atmospheric gas burner.
Burner mechanism. G. Coggin. 2,610,622, Sept. 16.
Burning fumes, Method of and apparatus for. M. C. Steese. 2,610,411, Sept. 16.
Bus bar bushing structure for electrical apparatus casings. W. G. James. 2,611,002, Sept. 16.
C-clamp with right-angularly related clamping screws. J. E. Romine. 2,610,661, Sept. 16.
Cabinet: *See*—
Refrigerator display cabinet.
Cable fitting. E. J. F. Murana. 2,610,376, Sept. 16.
Calculating machine, Digital. W. S. Elliott. 2,610,790, Sept. 16.
Calculator, Stored function. E. A. Avakian. 2,610,791, Sept. 16.
Camouflaged fishing line and making the same. M. K. Hedge. 2,610,539, Sept. 16.
Cane. A. Kohl. 2,610,420, Sept. 16.
Cane, Cricket. J. E. Unger. 2,610,441, Sept. 16.
Card sorting device. A. A. Rembold. 2,610,632, Sept. 16.
Carrier: *See*—
Bait carrier. Stationery carrier.
Battery and cable carrier.
Carrier-current coupler. B. E. Lenehan. 2,611,022, Sept. 16.
Carrier inductive communication system for vehicles. E. W. Marlowe. 2,611,075, Sept. 16.
Casement window mounted air conditioner. T. J. Deering. 2,610,483, Sept. 16.
Catadioptric telephoto system. F. G. Back. 2,610,547, Sept. 16.
Catalytic apparatus. R. K. Hunter. 2,610,909, Sept. 16.
Caulking composition. H. C. Taylor. 2,610,923, Sept. 16.
Ceiling construction. F. J. Manley. 2,610,365, Sept. 16.
Centralized traffic control system for the code control of interlocked switches and signals. F. T. Pascoe and A. L. Jerome. 2,611,074, Sept. 16.
Chair: *See*—
Uplift type theater chair.
Chance controlled game apparatus. J. M. Spiller. 2,610,855, Sept. 16.
Chemical manufacture. J. W. Nelson. 2,610,974, Sept. 16.
Cigarette lighter filler unit. L. C. Ogle. 2,610,766, Sept. 16.
Circuit: *See*—
Inductance - capacitance resonance circuit. Mixing circuit.
Circuit arrangement for generating sawtooth oscillations. J. J. P. Valeton. 2,611,089, Sept. 16.
Circuit breaker control system. W. H. Cuttino. 2,611,009, Sept. 16.
Circuit controlling apparatus. J. F. Frese. 2,611,060, Sept. 16.
Circuit for cathode-ray oscillographs, Deflection. M. Nadir. 2,611,105, Sept. 16.
Circuit interrupter. H. L. Rawlins. 2,611,058, Sept. 16.
Circuit interrupter. B. C. Webster. 2,611,055, Sept. 16.
Circuit tester for battery-energized circuits. R. C. Wilcock and P. E. Hastings. 2,611,008, Sept. 16.
Circumferentially traveling tire bead prying tool. J. M. Edwards. 2,610,672, Sept. 16.
Clamp: *See*—
Portable saw welding clamp. Lighting fixture clamp.
Clamp for clamping concrete forms. A. H. Jennings and H. E. Sharman. 2,610,660, Sept. 16.
Clarification of sugar cane juice. K. H. Eakin. 2,610,932, Sept. 16.
Cleaner: *See*—
Portable rug or carpet cleaner.
Closure and fastener for threaded containers. P. W. Carpenter. 2,610,762, Sept. 16.
Clutch: *See*—
Mechanical clutch.
Clutch. R. A. Beckwith. 2,610,717, Sept. 16.
Coating wire with lime, Method and apparatus for. C. R. Chase and G. L. Bliss. 2,610,926, Sept. 16.
Coin controlled fluid dispensing apparatus. V. W. West. 2,610,722, Sept. 16.
Collapsible thread feeding appliance for sewing machines. R. Picciano and I. Abramowitz. 2,610,599, Sept. 16.
Color television picture tube. D. A. Jenny. 2,611,099, Sept. 16.
Coloring agent for plastic materials. B. T. Hensgen. 2,610,917, Sept. 16.
Comb and brush, Combined. G. P. Fuentes. 2,610,637, Sept. 16.
Comb, Haircutting. C. A. Charbeneau. 2,610,392, Sept. 16.
Comb, Self-cleaning. L. K. Franklin. 2,610,638, Sept. 16.
Comb ventilator for tobacco barns. G. S. Horne. 2,610,569, Sept. 16.
Combination juice extracting machine. J. Winson. 2,610,574, Sept. 16.
Combustion chamber for domestic oil burners and the like. J. N. Hauck. 2,610,594, Sept. 16.
Combustion chamber having telescoping walls and corrugated spacers. E. F. Miller. 2,610,467, Sept. 16.
Combustion engine valve operating means. G. Pielstick. 2,610,617, Sept. 16.
Communication system line fault locating. W. H. B. Cooper. 2,611,041, Sept. 16.
Compressor supporting platform for tractors or other vehicles. G. L. Hart. 2,610,787, Sept. 16.
Computer, Great circle course. F. E. Valentine. 2,610,403, Sept. 16.
Computer, Sound ranging. R. L. Dunn. 2,611,023, Sept. 16.
Concrete stair form. A. F. Poliman. 2,610,380, Sept. 16.
Condenser. J. R. Holmes and A. Schwarz. 2,610,832, Sept. 16.
Condenser lens arrangement for projectors. H. Rubin. 2,610,546, Sept. 16.
Congelation and apparatus for use in connection therewith. C. Field. 2,610,474–6, Sept. 16.
Congelation and apparatus for use in connection therewith. C. Field and E. C. Stover. 2,610,477, Sept. 16.
Constant tension winding. R. F. Lathrop. 2,610,806, Sept. 16.
Construction of corner sections in luggage. S. D. Plotkin. 2,610,715, Sept. 16.
Construction of dynamoelectric machines. F. J. Johns and H. J. Owens. 2,610,992, Sept. 16.
Container: *See*—
Sectional container. Lipstick container.
Insulated container.
Container having an absorbing layer for dispensing by capillary action, Dispensing. C. C. Goetz. 2,610,769, Sept. 16.
Continuous adsorption process. L. W. Pollock. 2,610,703, Sept. 16.
Continuous wave navigation system. W. Palmer. 2,611,127, Sept. 22.
Control for electrical cooking appliances. I. R. Chandler. 2,611,070, Sept. 16.
Control panel for foundation garments. B. J. Dowd. 2,610,324, Sept. 16.
Control system. J. R. Boykin. 2,611,091, Sept. 16.
Control system for electrically-operated vehicles. L. J. Hibbard. 2,611,117, Sept. 16.
Control system for fluid fuel burners. V. Weber. 2,610,682, Sept. 16.
Control system utilizing single point ignition. E. Witzel. 2,610,680, Sept. 16.
Controlled flow beater. F. Hayes. 2,610,553, Sept. 16.
Controlling air pressure in buildings. W. W. Stuart. 2,610,565, Sept. 16.
Conveyer, Material feeding. S. R. Howard. 2,610,726, Sept. 16.
Conveyer, Scraper. W. Weir. 2,610,730, Sept. 16.
Conveyer, Screw. R. L. Beldin. 2,610,727, Sept. 16.
Cooking appliance. E. A. Farr. 2,610,572, Sept. 16.
Cooking device, Electrical. R. E. Kennedy. 2,611,067, Sept. 16.
Cooler: *See*—
Protected cooler. Liquid cooler.
Copolymerization of 1,3-butadienes with dialkyl methylenemalonates. R. H. Ewart and W. V. Smith. 2,610,964, Sept. 16.
Copyholder. S. Sattler. 2,610,610, Sept. 16.
Core type reel drive. M. H. Fisher. 2,611,114, Sept. 16.
Corn husker roll. H. E. Beck, J. C. Jozwik and W. J. Innes. 2,610,634, Sept. 16.
Corn husking roll. J. C. Jozwik. 2,610,633, Sept. 16.
Corner post for sectional stalls. W. G. Beatty. 2,610,830, Sept. 16.
Correcting spring aligning spacer ring. B. B. Fox. 2,610,847, Sept. 16.
Corrugating machine, Hydraulic. L. M. Puster. 2,610,667, Sept. 16.
Cotton chopper. F. W. Peel. 2,610,559, Sept. 16.
Counterbalancing device. F. K. Maussnest. 2,610,524, Sept. 16.
Counter resetting mechanism. H. N. Bliss. 2,610,794, Sept. 16.
Coupler and yoke constructions. W. C. Dilg and G. R. Munro. 2,610,745, Sept. 16.
Coupling for rolling-mill spindles, Universal. A. Teplitz. 2,610,488, Sept. 16.
Cover latch for pastic radio cabinets and the like. H. Mendelson. 2,610,763, Sept. 16.
Cowl fastener. L. A. Powell. 2,610,378, Sept. 16.
Creped paper product and process. W. W. Rowe. 2,610,935, Sept. 16.

Crib and playpen, Combination. J. J. Field. 2,610,332, Sept. 16.
Crossarm clevis. F. G. Ridgers. 2,610,818, Sept. 16.
Crust rolling apparatus. L. J. Harriss and B. Lambers. 2,610,589, Sept. 16.
Crystal oscillator ultramicrometer. G. Ralston and E. C. Goggio. 2,611,020, Sept. 16.
Cusmion. J. R. Mcmillin and W. Sakarash. 2,610,337, Sept. 16.
Cuticle guard. E. M. Linton. 2,610,640, Sept. 16.
Cutter: *See*—
Potato cutter. Multiple die cutter.
Doughnut cutter.
Cutter head of a dry-shaving device. A. van der Lee, W. L. L. Vivie, and K. R. Hofland. 2,610,395, Sept. 16.
Dandruff removing appliance. J. Garner. 2,610,352, Sept. 16.
Defecating process and apparatus. A. V. Brieghel-Müller. 2,610,929, Sept. 16.
Deflector for continuous mill. G. S. Rask. 2,610,533, Sept. 16.
Delivery table. S. J. Stone. 2,610,903, Sept. 16.
Delivery tube nozzle and valve, Combined. C. L. Bledsoe. 2,610,780, Sept. 16.
Demountable form for pouring concrete. R. J. Rosati and J. D. Somers. 2,610,381, Sept. 16.
Denture making appliance. J. M. Craigo. 2,610,402, Sept. 16.
Derivatives of certain oxyalkylated phenol-aldehyde resins useful in coating compositions. M. De Groote and B. Keiser. 2,610,955, Sept. 16.
Design roller. A. Sprung. 2,610,582, Sept. 16.
Detachable drawer stop. J. F. Hufnagel. 2,610,353, Sept. 16.
Detachable handle. R. C. Howell. 2,610,354, Sept. 16.
Detergent composition. J. J. Morrisroe. 2,610,950, Sept. 16.
Device for color coding insulated conductors. H. D. Isenberg. 2,610,607, Sept. 16.
Device for making tubes from sheet material. F. C. Worth. 2,610,556, Sept. 16.
Device for radiating circularly polarized waves. A. Alford. 2,611,087, Sept. 16.
Diaper. M. A. Hawkins. 2,610,629, Sept. 16.
Diaryl pyrazolines, Production of. J. D. Kendall and G. F. Duffin. 2,610,969, Sept. 16.
Dictating machine with combined hand microphone and control means. A. C. De Napoli, Jr. 2,611,037, Sept. 16.
Dielectric tuning system. R. L. Harvey. 2,611,088, Sept. 16.
Diesel-type engine for toy aircraft. K. O. Woodruff and R. L. Krier. 2,610,616, Sept. 16.
Dipper handle. L. A. Inskeep. 2,610,754, Sept. 16.
Direct current restorer for maintaining constant black level at cathode-ray tube. W. F. Bailey. 2,611,029, Sept. 16.
Disk gang biasing means. W. P. Oehler and C. H. Youngberg. 2,610,454, Sept. 16.
Disk gang spring biasing means. C. H. White. 2,610,453, Sept. 16.
Dispenser: *See*—
Measuring dispenser.
Display sign structure. W. A. Martin. 2,610,423, Sept. 16.
Divergent plate, link supported, mop pressure actuated mop wringer. D. Jenkins. 2,610,348, Sept. 16.
Door: *See*—
Airplane hangar door.
Door construction. C. B. Huizenga. 2,610,369, Sept. 16.
Door locking astragal. K. P. Tschaepe. 2,610,368, Sept. 16.
Doppler radar system. R. H. Dicke. 2,611,125, Sept. 16.
Double V stud section. S. Macomber. 2,610,711, Sept. 16.
Douche nozzle. N. L. Watt and H. F. Fehlberg. 2,610,627, Sept. 16.
Doughnut cutter. W. A. Van Campen. 2,610,590, Sept. 16.
Drag bucket. G. G. Morin. 2,610,753, Sept. 16.
Drain trap scraping and cleaning means. D. B. Mayberry. 2,610,696, Sept. 16.
Drawing board clamp. E. Soref. 2,610,435, Sept. 16.
Dress forms, Making. E. Nyberg. 2,610,773, Sept. 16.
Dried eggs, Preparation of. L. Kline and T. T. Sonoda. 2,610,918, Sept. 16.
Drill: *See*—
Mining drill.
Driving means for fluid seals. F. E. Payne. 2,610,874, Sept. 16.
Drop wire. T. E. Watson. 2,610,656, Sept. 16.
Ductile bismuth alloy and a ductile wire formed therefrom. I. E. Aske and K. W. Fitzpatrick. 2,610,913, Sept. 16.
Dump wagon with adjustable body pivot, Tilting. C. M. Williams. 2,610,892, Sept. 16.
Duplexing device for transceiver antenna systems. A. A. Varela and R. A. Herring, Jr. 2,611,079, Sept. 16.
Duplicating device. D. J. Burke. 2,610,580, Sept. 16.
Dynamoelectric machine. A. Valentin. 2,611,122, Sept. 16.
Earring. J. McCann. 2,610,486, Sept. 16.
Earring, Interchangeable or reversible. S. Friedman. 2,610,487, Sept. 16.
Electric appliance and stand assembly therefor. J. F. Frazier. 2,611,069, Sept. 16.
Electric counting and integrating system. E. H. Krause. 2,610,793, Sept. 16.
Electric discharge tube. E. T. Caselliini. 2,611,109, Sept. 16.
Electric hand lantern of the horizontally elongated type. G. G. Potekin. 2,611,072, Sept. 16.
Electric head bolt heater for internal-combustion engines. A. L. Freeman. 2,611,066, Sept. 16.
Electric lighting arrester. G. Rydbeck. 2,611,107, Sept. 16.
Electric mat switch. S. S. Roby. 2,611,049, Sept. 16.
Electric safety switch. P. B. and H. C. Richardson. 2,611,061, Sept. 16.
Electrical control means for film driving mechanisms. R. C. Beltz. 2,610,540, Sept. 16.
Electrical impulse device. M. E. Miller. 2,610,583, Sept. 16.
Electrical lighting arrester. G. Rydbeck. 2,611,108, Sept. 16.
Electrical terminal block. W. P. Rickabaugh. 2,610,996, Sept. 16.
Electrical terminals, Making. L. P. Locke. 2,610,390, Sept. 16.
Electrode assembly for moisture meters. W. J. Delmhorst. 2,611,006, Sept. 16.
Electrolyte indicating and control apparatus. P. J. Cade and D. J. MacDougall. 2,611,113, Sept. 16.
Electromagnetic circuit interrupter. E. R. Orsatti and D. A. Lace. 2,610,995, Sept. 16.
Electromagnetic relay. R. E. H. Carpenter. 2,611,063, Sept. 16.
Electromagnetic trip device. T. Lindstrom, J. Sandin, and H. L. Rawlins. 2,611,013, Sept. 16.
Electronic diplex keyer. G. L. Brewer. 2,611,034, Sept. 16.
Electronic discharge device of the cavity resonator type. D. M. Powers. 2,611,110, Sept. 16.
Electronic vibrator insulator. E. A. Wilson. 2,611,064, Sept. 16.
Electronic voltage regulator. J. F. Emerson. 2,611,121, Sept. 16.
Electronic wave chopping circuits. J. W. Gratian. 2,611,084, Sept. 16.
Electrostatic air-cleaning system. G. W. Penney and G. W. Hewitt. 2,610,699, Sept. 16.
Electrostatic voltage multiplier. C. Bosch and M. H. Shamos. 2,610,994, Sept. 16.
Emulsion treater. I. W. Lovelady and S. P. Kroeker. 2,610,698, Sept. 16.
Energy transfer system. C. G. Sontheimer. 2,611,030, Sept. 16.
Engine. J. P. Butterfield. 2,610,615, Sept. 16.
Engine driven chain saw. E. C. Kiekhaefer. 2,610,657, Sept. 16.
Envelopes, Continuously attached. B. L. Henry. 2,610,784, Sept. 16.
Expanding folder and manufacturing same. M. Flament. 2,610,868, Sept. 16.
Expansion lease comb. T. E. Watson. 2,610,383, Sept. 16.
Extraction process. C. L. Read. 2,610,942, Sept. 16.
Eyepiece mounting means. D. E. Davidson. 2,610,545, Sept. 16.
Fabric take-up device on straight-bar knitting machines. H. Diem. 2,610,495, Sept. 16.
Fabricating mechanism. W. S. Touchman. 2,610,550, Sept. 16.
Face protective device. J. O. Johnson. 2,610,323, Sept. 16.
Fastener: *See*—
Cowl fastener. Molding fastener.
Fastener. K. C. Bugg. 2,610,379, Sept. 16.
Fastener device. W. A. Bedford, Jr. 2,610,377, Sept. 16.
Faucet, Water. O. Schopp. 2,610,650, Sept. 16.
Fault responsive indicating control apparatus preferably for textile machinery. F. T. Bailey. 2,611,017, Sept. 16.
Feed control mechanism for lathes. K. C. Johnson. 2,610,535, Sept. 16.
Fender shield mounting. G. W. Schatzman. 2,610,866, Sept. 16.
Fiber-forming copolymers of 1,3-butadienes with dialkyl methylenemalonates. K. W. Doak and K. E. Wilzbach. 2,610,963, Sept. 16.
Fifth wheel locking means. R. A. Braunberger. 2,610,862,
Filter for cooking fats. R. F. Hunter. 2,610,740, Sept. 16.
Fire alarm unit, Portable. S. Nuccio. 2,611,016, Sept. 16.
Fire extinguisher. E. E. Seaberg. 2,610,692, Sept. 16.
Fire extinguisher discharge head and carrying handle. F. B. Allen. 2,610,693, Sept. 16.
Fish bait. O. J. Thomas. 2,610,429, Sept. 16.
Fish reel with level winding mechanism, Casting. S. H. Breedlove. 2,610,809, Sept. 16.
Fishing creel. P. H. Scherer. 2,610,758, Sept. 16.
Fishing rod. H. G. Caroland. 2,610,427, Sept. 16.
Flame control for burners of the solidified normally liquid fuel burning type. A. J. Laliberte. 2,610,674, Sept. 16.
Flameproofing composition. H. Hopkinson. 2,610,920, Sept. 16.
Flame retaining atmospheric gas burner. E. R. Downe. 2,610,675, Sept. 16.

Flexible hose end connection. P. R. Allison. 2,610,869, Sept. 16.
Flip-flop stage control circuits. C. M. E. Masson. 2,611,085, Sept. 16.
Floor hoist, Portable. R. R. Dague. 2,610,744, Sept. 16.
Fluid pressure booster through differential lever and equivalent structure. J. W. Rowland. 2,610,469, Sept. 16.
Fluid temperature control device. V. L. Streeter. 2,610,795, Sept. 16.
Fly holder. W. T. Neiman. 2,610,430, Sept. 16.
Freezer with refrigerant control, Ice-cream. J. W. Lofstedt. 2,610,478, Sept. 16.
Freight vehicle side wall with anchoring means for lading strapping. F. H. Pletzsch. 2,610,587, Sept. 16.
Frequency generator employing a magnetic double cross valve. H. J. McCreary. 2,611,119, Sept. 16.
Friction hinge. P. D. Becker. 2,610,355, Sept. 16.
Froth flotation of monazite from heavy gravity minerals. R. E. Cuthbertson. 2,610,738, Sept. 16.
Frozen food locker partition device. E. H. Slade. 2,610,759, Sept. 16.
Fruit reamer. J. L. Murray. 2,610,663, Sept. 16.
Fuel burner safety control apparatus. F. E. Lange. 2,610,677, Sept. 16.
Fused drop-out cutout. D. C. Hubbard. 2,611,054, Sept. 16.
Game device simulating a western rodeo. K. F. Card. 2,610,854, Sept. 16.
Game net and making the same. L. A. Ederer. 2,610,852, Sept. 16.
Game skinning rack. R. L. Holton. 2,610,356, Sept. 16.
Garden tool. C. A. Parker. 2,610,886, Sept. 16.
Garment folding equipment. J. W. Steele. 2,610,772, Sept. 16.
Gas and liquid contact pad. H. W. Collins and T. E. Philipps. 2,610,893, Sept. 16.
Gas and liquid separator apparatus. I. W. Lovelady and S. P. Kroeker. 2,610,697, Sept. 16.
Gas and liquids separator. M. L. Edwards. 2,610,788, Sept. 16.
Gas burner with secondary air feed. C. M. Wheelock. 2,610,676, Sept. 16.
Gas-liquid admixing apparatus. C. V. De Wees. 2,610,839, Sept. 16.
Gas turbine engine with starting device and automatic fuel control means. D. H. Ballantyne and H. E. W. West. 2,610,466, Sept. 16.
Gauge. L. R. Pistoles. 2,610,409, Sept. 16.
Gem settings, Making. M. Manne. 2,610,385, Sept. 16.
Geophysical exploration. A. A. Brant and E. A. Gilbert. 2,611,004, Sept. 16.
Glass washing machine. P. T. D'Aurora. 2,610,642, Sept. 16.
Glove, Welder's. I. E. Sabin. 2,610,326, Sept. 16.
Gravity meter. F. G. Boucher. 2,610,507, Sept. 16.
Grease gun having reservoir cover and automatic locking means therefor. C. C. S. Le Clair. 2,610,768, Sept. 16.
Grid assemblies, Making. E. E. Borland, G. A. Hobart III, C. Z. Nawrocki, and H. V. Neher. 2,610,387, Sept. 16.
Grinding machine. S. S. Mader. 2,610,448, Sept. 16.
Ground rod bond. F. G. Ridgers. 2,611,001, Sept. 16.
Guard for receptacle covers. D. A. Freeman. 2,610,765, Sept. 16.
Gyroscope. J. W. Barnes. 2,610,509, Sept. 16.
Hair curler with rotatably adjustable barrel. A. E. Vaughn. 2,610,639, Sept. 16.
Haircutting and collecting device. P. L. Hammond. 2,610,393, Sept. 16.
Hair-dye compositions. E. Schueller. 2,610,941, Sept. 16.
Halogen containing organic compounds of phosphorus, Production of. W. M. Lanham. 2,610,978, Sept. 16.
Handle: *See*—
Detachable handle.
Dipper handle.
Unitary self-adjusting handle.
Hanger: *See*—
Trouser and skirt hanger.
Hanger for sliding doors. A. Nordahl. 2,610,367, Sept. 16.
Harvester, Potato. E. H. Holden. 2,610,457, Sept. 16.
Heat transfer device. E. P. Whitlow. 2,610,481, Sept. 16.
Heat-treating a swellable bentonite to increase its thickening power. F. E. Hutchins and C. J. Golding. 2,610,951, Sept. 16.
Heater: *See*—
Automobile-body heater.
Steam water heater.
Helmet. D. Le Grand. 2,610,322, Sept. 16.
Hermetic sealing machine with vacuum control means. F. Z. Fouse. 2,610,779, Sept. 16.
High-frequency apparatus. W. J. Polydoroff and J. E. Johanson. 2,611,123, Sept. 16.
Highway painted line marker. F. E. Ballew. 2,610,422, Sept. 16.
Hilling attachment for rotary tilling machines. J. D. and K. D. Roth. 2,610,561, Sept. 16.
Hitch for implements and vehicles. W. J. Coultas, N. D. Colvin, and W. B. Palmer. 2,610,560, Sept. 16.
Hoisting mechanism. M. A. English and R. O. Borst. 2,610,743, Sept. 16.
Holder: *See*—
Fly holder.
Key holder.
Holder for paper cups. H. Carew. 2,610,491–2, Sept. 16.
Hollow panels, Manufacture of. M. Pasquier. 2,610,938, Sept. 16.
Homogeneous polymerization of vinylidene compounds using a hydroperoxide catalyst and a basic nitrogen compound. E. J. Vandenberg. 2,610,965, Sept. 16.
Hydraulic apparatus. F. J. Sowa. 2,610,949, Sept. 16.
Hydraulic drill feed and stroke timing mechanism. F. W. Kriewall. 2,610,528, Sept. 16.
Hydraulic tester. G. W. Nigh. 2,610,504, Sept. 16.
Hydrocarbon synthesis. H. Z. Martin and I. Mayer. 2,610,976, Sept. 16.
Ice cracker. J. R. Bayston. 2,610,803, Sept. 16.
Indexing device. F. W. Riedel. 2,610,551, Sept. 16.
Indicator: *See*—
Pressure indicator.
Standing wave ratio indicator.
Inductance-capacitance resonance circuit. H. B. Rex. 2,611,094, Sept. 16.
Ink, Transfer. J. R. Ehrlich. 2,610,921, Sept. 16.
Insecticidal powder container and duster. J. Ambrose. 2,610,432, Sept. 16.
Insecticide disperser. R. D. Chisholm and W. C. Fest. 2,610,433, Sept. 16.
Instrument, Electrical measuring. D. B. Wiese and H. L. Bernarde. 2,610,989, Sept. 16.
Instrument for locating the liquid level in wells. D. B. Taliaferro, C. F. McClung, and F. G. Mueller. 2,610,506, Sept. 16.
Instrument, Frequency compensated iron-vane. D. B. Wiese. 2,610,988, Sept. 16.
Instrument, Geometrical. D. J. McQuaid, Sr. 2,610,407, Sept. 16.
Instrument, Stringed musical. J. B. Cousineau. 2,610,536, Sept. 16.
Instrument, Writing. L. P. Martin. 2,610,611–12, Sept. 16.
Insulated container. J. S. Irvine. 2,610,757, Sept. 16.
Interbonded fibrous glass. R. Steinman and H. C. Courtright. 2,610,957, Sept. 16.
Interlocking sections for paper boxes. R. McReary. 2,610,782, Sept. 16.
Intermittent strip feed mechanism of the reciprocating type. A. S. Howell. 2,610,543, Sept. 16.
Internal-combustion engine driven compressor unit. E. Carlson. 2,610,785, Sept. 16.
Jack: *See*—
Portable fluid operated lifting jack.
Jet engine having fuel pumps driven by air turbine in thrust augmenting air duct. W. A. Knoll. 2,610,464, Sept. 16.
Joint lock mechanism for digging cap of excavating tooth assemblies. A. N. Crawford. 2,610,416, Sept. 16.
Jordan engine plug construction. H. D. Stuck. 2,610,554, Sept. 16.
Key holder. L. J. Maas. 2,610,501, Sept. 16.
Ladder, Extension. H. L. Wheelden. 2,610,875, Sept. 16.
Laminating glassine paper. J. I. Fisher and G. C. Borden, Jr. 2,610,939, Sept. 16.
Lamp having a revolvable shade structure, Electric. J. Palmieri. 2,611,071, Sept. 16.
Lamp holder for double ended tubular lamps. B. C. Webster. 2,610,997, Sept. 16.
Lamp socket, Panel mounted. C. W. Cochran. 2,611,000, Sept. 16.
Lapping machine. H. S. Indge. 2,610,451, Sept. 16.
Latch mechanism. R. D. Gayner, T. C. Wood, and M. C. Conold. 2,610,880, Sept. 16.
Laundering machine. P. E. Geldhof and L. Ringer. 2,610,498, Sept. 16.
Lifting device. G. Jaeger. 2,610,890, Sept. 16.
Lifting tool. P. W. Penn. 2,610,889, Sept. 16.
Ligator. D. J. Caliechio. 2,610,631, Sept. 16.
Light: *See*—
Multicolored manual signal light.
Light collecting front sight for firearms. J. T. Dickinson. 2,610,405, Sept. 16.
Lighting fixture clamp. H. W. Vote. 2,610,816, Sept. 16.
Lipstick applicator. M. H. Ivey. 2,610,641, Sept. 16.
Lipstick container. J. J. Balasevich. 2,610,733, Sept. 16.
Lipstick holder and the like. E. Noyack. 2,610,734, Sept. 16.
Liquid cooler. J. L. Barr. 2,610,485, Sept. 16.
Liquid recovery apparatus. P. M. Brister. 2,610,986, Sept. 16.
Lithium soap grease containing basic alkaline earth metal sulfonate. G. W. Eckert. 2,610,946, Sept. 16.
Load lifting mechanism. H. E. Luebbers. 2,610,752, Sept. 16.
Lock: *See*—
Bascule bridge lock.
Lock retainer. O. J. Poupitch. 2,610,500, Sept 16.
Lock seal suitable for manufacture in plastics. P. M. Pope. 2,610,879 Sept. 16.
Locking device for removable points for earth-working tooth units. A. N. Crawford. 2,610,417, Sept. 16.
Locomotive structure. W. A. Brecht. 2,610,585, Sept. 16.
Loom: *See*—
Pile fabric loom.
Low pressure propelled insecticidal aerosol composition. J. L. Endicott. 2,610,940, Sept. 16.
Lubricating compositions. A. J. Morway and W. C. Howell, Jr. 2,610,948, Sept. 16.

Lubricating grease and manufacture. A. J. Morway. 2,610,947, Sept. 16.
Lubricator: *See*—
Oil mist lubricator.
Machine for buffing tires. P. E. Hawkinson. 2,610,446, Sept. 16.
Machine for comparing and classifying record cards. K. A. Knutsen. 2,610,736, Sept. 16.
Machine for depositing candy icing on cards A. W. Krieg and J. Mayer. 2,610,591, Sept. 16.
Machine for mining coal. W. S. Galloway. 2,610,840, Sept. 16.
Machine for operating on strip stock. F. Koch. 2,610,388, Sept. 16.
Machine for sorting goods. D. P. Larham. 2,610,748, Sept. 16.
Magnesium salts of high molecular weight alkylated hydroxy aromatic compounds and their use in lubricating oils, Manufacture of. J. W. Hutcheson. 2,610,982, Sept. 16.
Magnetic cross valve having self-starting characteristics. H. J. McCreary. 2,611,120, Sept. 16.
Making honeycomb material, Method of and apparatus for. R. C. Steele. 2,610,934, Sept. 16.
Manufacturing forming rolls. W. P. Hill. 2,610,452, Sept. 16.
Manufacturing spaced plate arc extinguishers. R. E. Frink and R. C. Dickinson. 2,610,937, Sept. 16.
Marble game apparatus. M. A. Livingston. 2,610,853, Sept. 16.
Marking garments for identification. R. C. Baumbach. 2,610,419, Sept. 16.
Mattress construction. J. Pilliero. 2,610,334, Sept. 16.
Mattress construction, Innerspring. J. Pilliero. 2,610,333, Sept. 16.
Mattress protector. L. Schworm, Jr. 2,610,336, Sept. 16.
Measuring dispenser. R. C. Penfield. 2,610,770, Sept. 16.
Measuring machine attachment. D. Hawks, Jr., and E. Van Haaften. 2,610,408, Sept. 16.
Mechanical clutch. J. E. Chapman. 2,610,718, Sept. 16.
Mechanism for imparting rectilinear movement to a member. F. C. Young. 2,610,849, Sept. 16.
Mechanism to facilitate the turning of the pages of a book. M. Romaniuk. 2,610,434, Sept. 16.
Memo pad assembly, Telephone. W. C. Hamilton. 2,610,867, Sept. 16.
Merchandise stand. W. Bedingfield. 2,610,817, Sept. 16.
Metallurgy. M. J. Udy. 2,610,911, Sept. 16.
Meter: *See*—
Gravity meter.
Metering a liquefied gas, Process of and apparatus for. R. M. Thayer. 2,610,471, Sept. 16.
Method of and device for ensuring the proper order of threads isolated from a sheet of warp threads. S. S. C. Fleischer. 2,610,382, Sept. 16.
Microphone and control means, Combined hand. A. C. De Napoli, Jr. 2,611,042, Sept. 16.
Microwave tube. M. Ruderfer. 2,611,104, Sept. 16.
Milking barn. R. R. Graves. 2,610,608, Sept. 16.
Mill: *See*—
Ring rolling mill.
Roller mill.
Mimic diagram panel. R. B. Thorp. 2,611,018, Sept. 16.
Mineralized bituminous roofing. H. W. Greider and G. A. Fasold. 2,610,928, Sept. 16.
Mining drill. E. J. Huckshold. 2,610,829, Sept. 16.
Mixer-muller. J. T. Parisi. 2,610,373, Sept. 16.
Mixing attachment. A. I. Podell. 2,610,513, Sept. 16.
Mixing circuit. J. M. L. Janssen. 2,611,093, Sept. 16.
Mixing polyethylene with asphalt bitumens. J. C. Derksen and F. M. Jacobs. 2,610,956, Sept. 16.
Model layout repro-templet method. H. H. Dasey. 2,610,413, Sept. 16.
Mold: *See*—
Tire treading mold.
Molding fastener. W. H. Churchill. 2,610,375, Sept. 16.
Molding mop. L. S. Pugh. 2,610,346, Sept. 16.
Motion converter. O. L. Dunlap. 2,610,510, Sept. 16.
Motion translating device. B. H. Snow. 2,610,520, Sept. 16.
Motion transmitting device. E. A. Sprigg. 2,610,525, Sept. 16.
Motion transmitting mechanism. J. H. L'Abée-Lund. 2,610,410, Sept. 16.
Motor with auxiliary service pump, Outboard. H. E. Schenavar. 2,610,602, Sept. 16.
Mounting: *See*—
Fender shield mounting.
Mouth organ with fingering selector. J. Lederfine. 2,610,538, Sept. 16.
Mud box. G. M. Beatty. 2,610,690, Sept. 16.
Multicolor proof press. D. D. and E. O. Vandercook, and R. L. Pelland. 2,610,581, Sept. 16.
Multicolored manual signal light. E. A. Warner. 2,611,019, Sept. 16.
Multiple centering support. K. C. Ferguson. 2,610,735, Sept. 16.
Multiple die cutter. R. P. Bagdigian. 2,610,684, Sept. 16.
Multiroll chocolate refiner and like machines. A. A. Tunley. 2,610,800, Sept. 16.
Needle, Lacing. E. C. Harris. 2,610,777, Sept. 16.
Needle, Tufting. B. H. Midas. 2,610,598, Sept. 16.
Neoprene-phenolic adhesive cement. A. F. Thomson. 2,610,910, Sept. 16.
Noise-canceling microphone. R. K. Duncan. 2,611,035, Sept. 16.
Noncrystallizing corn sugar process. J. E. Cleland. 2,610,930, Sept. 16.
Nonplanar printed circuits and structural unit. C. Brunetti. 2,611,040, Sept. 16.
Nonseismic torsiograph. L. F. Hope. 2,610,505, Sept. 16.
Nursing unit. J. A. Gits. 2,610,755, Sept. 16.
Offset disk harrow. W. P. Oehler and C. H. Youngberg. 2,610,455, Sept. 16.
Oil burner. E. F. Chandler. 2,610,673, Sept. 16.
Oil mist lubricator. K. E. A. Göthberg. 2,610,700, Sept. 16.
Oil pressure operated electric switch. S. C. Wayman. 2,611,045, Sept. 16.
Oil tank pressurizing control. J. F. Kirkbride and J. D. Mayer. 2,610,705, Sept. 16.
Organo-thiyl compounds, Production of. M. Kleiman. 2,610,967–8, Sept. 16.
Ornament, Actuated Christmas tree. L. D. Burgesser. 2,611,014, Sept. 16.
Outdoor clothes bar. J. Stanton. 2,610,742, Sept. 16.
Oven assembly, Rotary. C. K. Dorsey. 2,610,592, Sept. 16.
Oxidized alkali lignin as a rubber reinforcing agent. R. A. V. Raff and G. H. Tomlinson, Jr. 2,610,954, Sept. 16.
Packages for twine, rope, and the like. H. Epstein. 2,610,812, Sept. 16.
Packing ring. J. C. Hanna. 2,610,846, Sept. 16.
Pad: *See*—
Gas and liquid contact pad.
Pad and cover attached ironing board. A. P. Lantz. 2,610,418, Sept. 16.
Paddle wheel reinforcement means. E. O. Hendrickson. 2,610,460, Sept. 16.
Paintbrush attachment. S. Austin. 2,610,731, Sept. 16.
Parachute deploying means. P. F. Smith. 2,610,815, Sept. 16.
Parking control for windshield wipers. E. Latta and A. J. Woltanski. 2,611,116, Sept. 16.
Pattern marker for looms. E. Kreft and A. Eichelberger. 2,610,653, Sept. 16.
Peach half orientor. E. R. Dudley, Jr. 2,610,724, Sept. 16.
Phase balance of 3-phase inverter. E. Levy, Jr. 2,610,991, Sept. 16.
Phonograph, Automatic. M. W. Kenney. 2,610,858, Sept. 16.
Phonograph, Portable. F. E. Cook. 2,610,857, Sept. 16.
Photoelectric controlled device for knitting machines. W. E. Stanley and C. H. Edwards. 2,611,097, Sept. 16.
Piano action flanges, Making. L. M. Martin. 2,610,358, Sept. 16.
Pile fabric loom. S. P. Parker. 2,610,652, Sept. 16.
Pilot operated fluid pressure control valve. G. F. Maglott. 2,610,647, Sept. 16.
Pipe handling mechanism. G. B. Pace. 2,610,888, Sept. 16.
Pipeline transportation of solid materials. W. M. Cross, Jr. 2,610,901, Sept. 16.
Pipeline transportation of solid materials and petroleum products. W. M. Cross, Jr. 2,610,900, Sept. 16.
Pipeline transportation of soluble granular materials. W. M. Cross, Jr. 2,610,899, Sept. 16.
Pipe reaming and burring attachment for pipes. T. A. Caliendo. 2,610,530, Sept. 16.
Pipe testing machine. J. Hahn. 2,610,651, Sept. 16.
Pistol sight. L. N. Chambers. 2,610,406, Sept. 16.
Pitcher or the like container. E. S. Tupper. 2,610,490, Sept. 16.
Pivotal joint for window control mechanism. J. H. Roethel. 2,610,876, Sept. 16.
Plant for drying of solid materials. C. O. Rasmussen. 2,610,412, Sept. 16.
Plate heat exchanger. R. P. L. Hytte. 2,610,835, Sept. 16.
Plate type heat exchanger. C. B. Dalzell. 2,610,834, Sept. 16.
Play yard, Folding. C. A. Kuniholm. 2,610,331, Sept. 16.
Plow, Marine. D. M. Glaser. 2,610,415, Sept. 16.
Plow type of coal mining machine. D. Pearson and J. Yarmak. 2,610,841, Sept. 16.
Plug and vaporizer, Pivotally mounted. W. H. Wellens. 2,611,068, Sept. 16.
Plural-compartment admixing vial for segregated storage of ingredients of solutions and liquid mixtures. M. L. Lockhart. 2,610,628, Sept. 16.
Pneumatic hammering machine for cleaning rollers. W. E. Smith. 2,610,350, Sept. 16.
Pneumatic roller compactor. C. W. Bros, A. O. Williamson, and U. O. Guignard. 2,610,557, Sept. 16.
Pocket respirator. R. B. Haller and W. P. Yant. 2,610,624, Sept. 16.
Polyvinyl alcohol filaments of improved properties, Producing. W. R. Hatchard and J. W. Hill. 2,610,359, Sept. 16.
Polyvinyl phosphoric acid esters of cellulose and making the same. G. C. Daul and J. D. Reid. 2,610,953, Sept. 16.
Portable fluid operated lifting jack. V. P. Grier. 2,610,824, Sept. 16.
Portable rug or carpet cleaner. R. J. Willis. 2,610,343, Sept. 16.

Portable saw welding clamp. E. F. Spencer. 2,610,600, Sept. 16.
Positioning device. A. J. Merles. 2,610,720, Sept. 16.
Potato cutter. W. A. Thompson. 2,610,664, Sept. 16.
Power boost surface control. C. Schultz. 2,610,814, Sept. 16.
Power saw for cylindrical printing plates. G. W. Bungay. 2,610,389, Sept. 16.
Press: *See*—
Air operated impact press. Multicolor proof press.
Silk screen printing press.
Pressure cooking device. J. L. Murray. 2,610,764, Sept. 16.
Pressure indicator. J. A. Stein and J. W. Wagner. 2,610,508, Sept. 16.
Prevention of pinking in rubber articles containing di-beta-naphthyl-para-phenylene diamine antioxidant. D. G. Slovin. 2,610,983, Sept. 16.
Printed circuit structure for high-frequency apparatus. E. J. Sass and D. Mackey. 2,611,010, Sept. 16.
Producing articles of glass. F. W. A. Kurz. 2,610,444, Sept. 16.
Producing caustic solutions of high concentration, Process of and apparatus for. C. Deprez and A. Basilewsky. 2,610,908, Sept. 16.
Proportioning distributor for mineral pulp or the like. S. D. Michaelson and W. S. Springer. 2,610,646, Sept. 16.
Protected cooler. R. W. Jensen. 2,610,831, Sept. 16.
Protective fire resistant covering for mattresses. R. J. Taylor. 2,610,338, Sept. 16.
Protector: *See*—
Mattress protector.
Pulse operated gaseous electron tube circuits. I. Wolff. 2,611,090, Sept. 16.
Push-button control for the operation of automobiles. W. J. Goedeke and W. L. Hartman. 2,610,518, Sept. 16.
Pusher feed saw table loading device. J. Marcantel. 2,610,729, Sept. 16.
Puzzle, Sectional three-dimensional. C. M. Welty. 2,610,856, Sept. 16.
Quick-exhausting valve. W. Wilcox and D. E. Daniel. 2,610,859, Sept. 16.
Rack: *See*—
Game skinning rack.
Radio apparatus. G. C. Larson. 2,611,111, Sept. 16.
Radio object locating system having a hyperbolic sweep. J. H. Irving. 2,611,126, Sept. 16.
Rail for transporting hangers or carriages and switches therefor. C. A. Calder. 2,610,584, Sept. 16.
Railroad switch. G. A. Swazey. 2,611,076, Sept. 16.
Rail splice. G. I. Titus. 2,610,799, Sept. 16.
Rat or mouse trap. R. and D. Osborn. 2,610,431, Sept. 16.
Ratio control for pressure cabins. J. B. Cooper and A. B. Jepson. 2,610,564, Sept. 16.
Razor, Repeating safety. R. G. Arey. 2,610,394, Sept. 16.
Razor, Straight safety. F. Sherosky. 2,610,396, Sept. 16.
Receptacle for lipstick holders and lipsticks. V. E. Calhoun. 2,610,732, Sept. 16.
Reclosing circuit breaker. J. M. Wallace. 2,611,053, Sept. 16.
Record magazine. F. H. Owens. 2,610,904, Sept. 16.
Recorder, Automatic impedance. L. W. Wilson. 2,611,005, Sept. 16.
Recorder with sound-controlled stylus feed, Sound. G. K. Graham. 2,611,038, Sept. 16.
Recording apparatus, Magnetic. H. H. Davis. 2,610,808, Sept. 16.
Recovery of alcohols from hydrocarbon oils. S. G. Gallo. 2,610,977, Sept. 16.
Recovery of liquid fuel from solidified fuel. K. A. Fischer and O. F. Hecht. 2,610,952, Sept. 16.
Recovery of osmium as osmium tetraoxide. G. A. Stein, H. C. Vogel, and R. G. Valerio. 2,610,907, Sept. 16.
Reel mechanism. J. J. Pelouch. 2,610,810, Sept. 16.
Reflector apparatus for miners' lamps. G. Wheat. 2,611,073, Sept. 16.
Reflex-reflector lens elements. W. R. Beck. 2,610,922, Sept. 16.
Refrigerating apparatus, Mechanical. R. G. Briscoe. 2,610,480, Sept. 16.
Refrigerating apparatus, Portable. J. B. Maxwell. 2,610,472, Sept. 16.
Refrigeration unit for cooling air, Compact. H. J. Lange. 2,610,484, Sept. 16.
Refrigerator display cabinet. P. Chovenec. 2,610,473, Sept. 16.
Refrigerator, Two-temperature. G. K. Iwashita. 2,610,479, Sept. 16.
Regulator: *See*—
Electronic voltage regulator.
Reinforced paper article. A. E. Carlson. 2,610,936, Sep.. 16.
Reinforced split clutch plate. L. Hornbostel. 2,610,719, Sept. 16.
Reinforcing garments. H. Köppel. 2,610,327, Sept. 16.
Removable mountings and interlocking means for electrical devices. W. K. Lockhart. 2,610,998, Sept. 16.
Removing olives and the like from containers. H. Enderle and J. F. Vojak. 2,610,884, Sept. 16.
Resilient damping of pressure bellows. W. C. Carlisle and J. H. McCarvell. 2,610,644, Sept. 16.
Resinous adhesive composition. R. R. Lamm. 2,610,924, Sept. 16.
Resonant bridge circuits. T. A. Perls and G. W. Cook. 2,611,021, Sept. 16.
Restraining device for children's high chairs. P. E. Grooms. 2,610,670, Sept. 16.
Ring: *See*—
Correcting spring aligning Packing ring.
spacer ring.
Ring rolling mill. E. Henschker and F. S. Salter. 2,610,531, Sept. 16.
Ring rolling mill. M. R. Heppenstall. 2,610,532, Sept. 16.
Rinser and sprayer, Nursing bottle. D. Hall. 2,610,894, Sept. 16.
Ripper for seams or the like. B. P. Adams, J. Palma, Jr., and J. G. Knapp. 2,610,399, Sept. 16.
Rod: *See*—
Fishing rod.
Roller mill. E. H. Miller. 2,610,801, Sept. 19.
Roll partition. T. Schaap. 2,610,681, Sept. 16.
Roller neck bearing for textile drafting machines. E. B. Robinson and J. C. Costner. 2,610,363, Sept. 16.
Roller skate antifriction bearing. P. Rebmann. 2,610,897, Sept. 16.
Rotary contactor device. P. V. S. Kolff. 2,611,051, Sept. 16.
Rotary hydraulic torque converter. D. F. McGill. 2,610,468, Sept. 16.
Rotary roll clearer for draft frames. W. F. Bird. 2,610,362, Sept. 16.
Rotary scoring cutter assembly. W. W. Betts 2,610,687, Sept. 16.
Rotary swivel. R. L. Crain. 2,610,828, Sept. 16.
Rotary swivel. L. Fagg. 2,610,827, Sept. 16.
Rotary table. F. C. Victory. 2,610,552, Sept. 16.
Rotatable marking tool. R. H. Norris. 2,610,576, Sept. 16.
Rotatable trigger guard for firearms. C. A. Moore. 2,610,425, Sept. 16.
Rotating plate mixing device. J. S. Clarke. 2,610,836, Sept. 16.
Rotating shaft seal. T. T. Woodson. 2,610,871, Sept. 16.
Rubber reclaiming oil. F. W. Staten. 2,610,925, Sept. 16.
Rust inhibiting composition. M. P. Kleinholz. 2,610,919, Sept. 16.
Sachet pocket for brassières. J. Schlussel. 2,610,325, Sept. 16.
Safety attachment for smokers. J. R. Colvin, III. 2,610,636, Sept. 16.
Safety control and ignition apparatus for gaseous fuel burners. V. Weber and W. J. Russell. 2,610,679, Sept. 16.
Safety device for automatic approach systems. C. C. Pine and C. L. Sharp. 2,611,128, Sept. 16.
Safety electric outlet. S. Silver. 2,610,999, Sept. 16.
Sand roll and cloth roll mechanism. F. B. Peterson. 2,610,655, Sept. 16.
Scale. N. A. Hallwood. 2,610,844, Sept. 16.
Scale, Weighing. J. F. Bengtsson. 2,610,845, Sept. 16.
Scale weight totalizing device. E. W. Schellentrager. 2,610,843, Sept. 16.
Score indicator for boxing and the like. L. T. Kaufman. 2,610,792, Sept. 16.
Screen printing machine. C. A. Heintges. 2,610,577, Sept. 16.
Screw driver for operating on pole shoes. J. D. Shaker. 2,610,659, Sept. 16.
Seal. W. M. Brooks. 2,610,878, Sept. 16.
Sealing strip. S. D. Bradley. 2,610,713–14, Sept. 16.
Sectional container. D. D. Ball. 2,610,760, Sept. 16.
Seismic signal amplifying system. J. E. Hawkins. 2,611,024, Sept. 16.
Selective sideband transmission and reception system. D. E. Norgaard. 2,611,036, Sept. 16.
Selective signal transmission system. H. Jankowski. 2,611,025, Sept. 16.
Self-locking box. T. Ochar. 2,610,783, Sept. 16.
Semiconductive cell. O. Saslaw. 2,610,386, Sept. 16.
Semitrailer construction. E. F. Crockett. 2,610,891, Sept. 16.
Separation of ethane and ethylene by extractive distillation. J. A. Patterson. 2,610,704, Sept. 16.
Separator: *See*—
Gas and liquids separator.
Servo control for fluid motors. R. K. Sedgwick. 2,610,614, Sept. 16.
Shaft seal. C. T. Hayes. 2,610,872, Sept. 16.
Shaft seal. C. Steenstrup. 2,610,873, Sept. 16.
Shaped timepiece automatically rewound by means of a movable mass. M. Huguenin. 2,610,462, Sept. 16.
Sheave. B. E. Long, Jr. 2,610,514, Sept. 16.
Sheet delivery mechanism for printing machines. W. F. Huck. 2,610,850, Sept. 16.
Sheet metal cutting apparatus. R. Le Bron and W. R. Heck. 2,610,685, Sept. 16.
Sheet metal cutting tool. C. A. Royer. 2,610,398, Sept. 16.
Shingle stock, Producing. J. A. Romano. 2,610,535, Sept. 16.
Shirt collar support. C. A. Calder. 2,610 774, Sept. 16.
Shirt folding device. C. A. Calder. 2,610 771, Sept. 16.
Shockproof head for X-ray apparatus. E. R. Goldfield and E. B. Graves. 2,611,095, Sept. 16.
Shoe display form, Plastic. S. Nettler and M. Maccaferri. 2,610,340, Sept. 16.

Shoe machine. A. R. Morrill. 2,610,339, Sept. 16.
Shutter structure. D. I. Hite. 2,610,371, Sept. 16.
Side tensioner for bales. P. P. Wuertz. 2,610,575, Sept. 16.
Sign: *See*—
Activated sign.
Signal arm. M. C. Magarian. 2,610,603, Sept. 16.
Signal switch for motor vehicles, Self-canceling directional. A. Gazda. 2,611,043, Sept. 16.
Signaling device. F. Edwards. 2,610,604, Sept. 16.
Signaling device, Direction. E. L. Barcus. 2,611,047, Sept. 16.
Signaling system, Carrier type. K. E. Appert. 2,611,031, Sept. 16.
Silk screen printing press. C. A. Wing. 2,610,579, Sept. 16.
Ski binding. F. H. Campbell. 2,610,861, Sept. 16.
Skylight construction. M. Wasserman. 2,610,593, Sept. 16.
Slidable outer jaw, plier-type wrench. E. H. Shaff. 2,610,534, Sept. 16.
Sliding frame for shaker conveyers. R. Moulton and C. J. Stover. 2,610,728, Sept. 16.
Slingshot and arrow catapult, Combined. D. Bean. 2,610,620, Sept. 16.
Slurry adsorption separation and fractionation of sugars. E. M. Montgomery, H. F. Conway and F. B. Weakley. 2,610,931, Sept. 16.
Smoke stack in particular for land vehicles and ships. J. Valensi. 2,610,570, Sept. 16.
Snap-action valve. J. H. Brodhun. 2,610,649, Sept. 16.
Snowplow, Rotary. I. Vanvick. 2,610,414, Sept. 16.
Soap paste dispensing apparatus. B. H. Gardner and F. W. Yardley. 2,610,767, Sept. 16.
Solvent fractionation of wax-containing mixtures. E. W. Clarke. 2,610,943, Sept. 16.
Spacing mechanism. W. J. Schieser and J. F. Kelley. 2,610,725, Sept. 16.
Spike tooth harrow. C. G. Strandlund. 2,610,456, Sept. 16.
Spindle bumper. D. A. Ahlstrand. 2,610,654, Sept. 16.
Spinning top. J. J. Manske, L. J. Martin and R. J. Bernake. 2,610,440, Sept. 16.
Spinning, twisting, and like apparatus. R. Ragan, 2,610,461, Sept. 16.
Spool structure, Removable head. J. R. Moss. 2,610,811, Sept. 16.
Spoon, Feeding. M. L. Wendling. 2,610,400, Sept. 16.
Spring loaded variable diameter sheave and drive. E. J. Otto. 2,610,516, Sept. 16.
Spring structure. A. Baptista. 2,610,335, Sept. 16.
Squeegee nozzle attachment for vacuum cleaners. H. C. Lilly. 2,610,351, Sept. 16.
Stabilization of glyceride oils. C. D. Evans, A. W. Schwab and J. C. Cowan. 2,610,973, Sept. 16.
Stabilization of thixotropic compositions comprising polyesters with quinone. R. E. Burnett. 2,610,961, Sept. 16.
Stabilizing the molecular arrangement of glass thermometers. L. C. Liberatore. 2,610,445, Sept. 16.
Stack recharged puffing unit for toys. W. R. Smith. 2,610,438, Sept. 16.
Stand: *See*—
Merchandise stand.
Standing wave ratio indicator. A. V. Hollenberg. 2,611,103, Sept. 16.
Stationery carrier. L. K. Fleischmann and B. A. Schroeder. 2,610,723, Sept. 16.
Steam water heater. L. M. Puster. 2,610,837, Sept. 16.
Steel frog tie with special clips. E. E. Roecker. 2,611,077, Sept. 16.
Steel-like alloy containing spheroidal graphite. K. D. Millis, A. P. Gagnebin and N. B. Pilling. 2,610,912, Sept. 16.
Stereophonic reproduction apparatus. K. de Boer. 2,610,694, Sept. 16.
Stove for burning either liquid or gaseous fuel. M. D. Ingram. 2,610,621, Sept. 16.
Straight sided stacking tote or packing box. W. F. Best. 2,610,756, Sept. 16.
Strainer. J. H. Schmid. 2,610,741, Sept. 16.
Strictly limited separation of mixtures by the speed of fall in liquid media, Process of and apparatus for. T. Eder. 2,610,737, Sept. 16.
Structural frame foundation. H. S. Shannon. 2,610,710, Sept. 16.
Styrene copolymer mixtures. W. H. Smyers and D. W. Young. 2,610,962, Sept. 16.
Submarine cable overcurrent protective device. P. H. Wells and C. H. Cramer. 2,611,032, Sept. 16.
Superheterodyne receiver. J. L. Arends. 2,611,083, Sept. 16.
Support: *See*—
Shirt collar support.
Multiple centering support.
Supporting means for acoustical absorbers. O. E. Grue, 2,610,695, Sept. 16.
Surgical apparatus. B. L. Crew. 2,610,630, Sept. 16.
Surgical sponge and the preparation thereof. R. H. Sifferd and R. J. Schmitt. 2,610,625, Sept. 16.
Suspended milker. C. A. Thomas. 2,610,609, Sept. 16.
Suspended traveling blower for removing lint and the like from wall surfaces of textile mill rooms. R. T. Moore. 2,610,349, Sept. 16.
Swabbing device with disposable swab. I. S. Kleiner. 2,610,347, Sept. 16.
Switch: *See*—
Air actuated time delay control switch.
Electric mat switch.
Electric safety switch.
Oil pressure operated electric switch.
Railroad switch.
Thermally actuated mercury switch.
Vehicle turn indicating switch.
Switch. E. T. Platz and R. S. Davis. 2,611,052, Sept. 16.
Switch. J. C. Ponstingl. 2,611,050, Sept. 16.
Switch. J. F. van Meurs and A. Venema. 2,611,062, Sept. 16.
Switch device for Christmas tree lights. R. W. Adams and C. L. Taylor. 2,611,065, Sept. 16.
Switch with permanent-magnet blowout field, Electric. R. B. Immel and L. Pierce. 2,611,059, Sept. 16.
Synchronizing system. E. Jones. 2,611,033, Sept. 16.
Synthesis of hydrocarbons from carbon monoxide and hydrogen with an iron type catalyst. J. J. Owen and S. D. Sumerford. 2,610,975, Sept. 16.
Synthesis of organic peroxides. T. W. Campbell and C. M. Coppinger. 2,610,972, Sept. 16.
Syringe. J. D. Edwards. 2,610,626, Sept. 16.
Table: *See*—
Delivery table.
Rotary table.
Table for transferring invalids, Wheeled. J. E. Sutton. 2,610,330, Sept. 16.
Takedown mechanism for firearms. D. Emerson. 2,610,426, Sept. 16.
Telegraph transmitter with amplitude-modulation. H. B. R. Boosman and P. Zijlstra. 2,611,078, Sept. 16.
Television still-picture transmitting and recording system. J. H. Hammond, Jr. 2,611,027, Sept. 16.
Television sweep system. G. W. Fyler and R. M. Crooker. 2,611,106, Sept. 16.
Television transmission system. A. Vorms. 2,611,028, Sept. 16.
Temperature-compensated target assembly for color-kinescopes, etc. R. D. Faulkner and W. A. Bentley. 2,611,100, Sept. 16.
Temperature-compensating conductivity cell. P. J. Cade and B. E. Shaw. 2,611,007, Sept. 16.
Temperature control apparatus. M. R. Miller. 2,610,797, Sept. 16.
Temperature control device. S. G. Eskin and H. W. Rice. 2,610,678, Sept. 16.
Testing arrangement for automatic telegraph switching system. W. B. Blanton and A. H. Scheinman. 2,611,026, Sept. 16.
Testing pipe. F. W. Berry. 2,610,691, Sept. 16.
Textile product, Producing a. R. J. Mann and J. Biedawski. 2,610,384, Sept. 16.
Theater chair back mounting construction. I. R. Bromagem. 2,610,669, Sept. 16.
Therapy X-ray system. R. L. Wright and M. E. Hayes. 2,611,096, Sept. 16.
Thermal process for beta conidendrin manufacture. W. M. Hearon and V. V. Jones. 2,610,970, Sept. 16.
Thermal relay. A. P. Jackel. 2,611,056, Sept. 16.
Thermally actuated mercury switch. J. L. Slonneger. 2,611,057, Sept. 16.
Thermogenerator and pilot burner assembly. V. Weber and W. S. Kunzler. 2,610,984, Sept. 16.
Thermostatic heater control. W. A. Marshall, Jr. 2,610,796, Sept. 16.
Thimble. J. E. Smith. 2,610,776, Sept. 16.
Thiols and thioethers, Production of. G. H. Short. 2,610,981, Sept. 16.
Thixotropic compositions. B. W. Nordlander and J. A. Loritsch. 2,610,958, Sept. 16.
Thixotropic composition. B. W. Nordlander. 2,610,959–60, Sept. 16.
Thread guide. E. H. Scott. 2,610,494, Sept. 16.
Three-dimensional pantographic reproducing machine. C. R. Compton. 2,610,404, Sept. 16.
Three-element thermionic tube structure. H. K. Kuthe and R. H. Bloemeke. 2,611,112, Sept. 16.
Timer, Interval. E. H. Beiser. 2,610,683, Sept. 16.
Timing apparatus, Electrical. R. S. Feigal. 2,611,011, Sept. 16.
Tire treading mold. P. E. Hawkinson. 2,610,357, Sept. 16.
Tobacco barn structure. G. S. Horne. 2,610,568, Sept. 16.
Tobacco lath. W. N. Aleshin. 2,610,883, Sept. 16.
Toggle actuated quick action C-clamp. E. L. Ratcliff. 2,610,622, Sept. 16.
Tool: *See*—
Circumferentially traveling tire bead prying tool.
Garden tool.
Lifting tool.
Rotatable marking tool.
Sheet metal cutting tool.
Tool for assembling and disassembling conecting rods and their bearings. P. T. Gorton. 2,610,391, Sept. 16.
Toy caboose. J. L. Bonanno. 2,610,442, Sept. 16.
Toy, Climbing and spinning. S. P. Németh. 2,610,439, Sept. 16.
Toy, Dog's. W. Jones. 2,610,851, Sept. 16.
Toy drive, Mechanical. J. Papay. 2,610,527, Sept. 16.
Toy harmonica, Child's. P. A. La Grutta. 2,610,537, Sept. 16.
Toy repeating rubber band gun. O. W. Mikkelson, Jr. 2,610,619, Sept. 16.

Tractor hitch. G. D. Null and C. E. Zepp. 2,610,863, Sept. 16.
Tractor implement hitch. L. D. Lambson. 2,610,563, Sept. 16.
Tractor lug. G. L. L. Smith. 2,610,898, Sept. 16.
Trailer for boats and the like. O. L. Cantrell. 2,610,865, Sept. 16.
Transmission gearing. L. F. R. Fell and R. J. W. Cousins. 2,610,526, Sept. 16.
Transparent mounting sheath for snapshots. H. S. Horn. 2,610,421, Sept. 16.
Trap: *See*—
Rat or mouse trap.
Traveling wave amplifier tube. R. Wallauschek. 2,611,101, Sept. 16.
Traveling wave tube. P. G. Bohlke. 2,611,102, Sept. 16.
Treating rice bran and rice polish. M. M. Cassidy and H. L. B. Nawry. 2,610,914, Sept. 16.
Treating tall oil with alkylene oxides. V. Esposito. 2,610,966, Sept. 16.
Treatment of carbonaceous solids. C. E. Hemminger. 2,610,944, Sept. 16.
Treatment of fibrous materials with polyamides. R. P. Foulds. 2,610,927, Sept. 16.
Triangle solver. E. B. Hales. 2,610,789, Sept. 16.
Trickle charger. H. T. Havlick. 2,611,118, Sept. 16.
Trouser and skirt hanger. C. J. Stager. 2,610,775, Sept. 16.
Truck, Lift. G. Bevan. 2,610,751, Sept. 16.
Truck, Locomotive. F. L. Alben. 2,610,586, Sept. 16.
Truck, Motor vehicle wheel. R. O. Hulbert. 2,610,750, Sept. 16.
Truss. J. E. Eddishaw. 2,610,623, Sept. 16.
Tube: *See*—
Bean power tube.
Color television picture tube.
Electric discharge tube.
Microwave tube.
Traveling wave amplifier tube.
Traveling wave tube.
Tubular handle connection. J. F. Bagley, Jr. 2,610,902, Sept. 16.
Tunnel lining structure and gauge therefore. T. L. White. 2,610,470, Sept. 16.
Turbine bucket damping arrangement. P. H. Knowlton, Jr. 2,610,823, Sept. 16.
Tying mechanism for balers. H. E. Altgelt. 2,610,573, Sept. 16.
Umbrella bandoleer. W. D. Young. 2,610,778, Sept. 16.
Under door frame saw. G. O. Koelling. 2,610,658, Sept. 16.
Undershirt, Ventilating and insulating. E. A. Kostopoulos. 2,610,496, Sept. 16.
Union having pressure responsive seal. D. J. Parmesan. 2,610,870, Sept. 16.
Unitary self-adjusting handle. A. J. Hayden. 2,610,885, Sept. 16.
Uplift type theater chair. I. R. Bromagem. 2,610,668, Sept. 16.
Utility chest and pipe bench, Plumber's. W. Fleming. 2,610,761, Sept. 16.
Valve: *See*—
Automatic drain valve.
Automatic stop and vent valve.
Pilot operated fluid pressure control valve.
Quick-exhausting valve.
Snap-action valve.
Valve. E. A. Weinberg and G. W. White. 2,610,821, Sept. 16.
Valve actuator. H. Mansen. 2,610,511, Sept. 16.
Valve apparatus. A. F. Meyer. 2,610,648, Sept. 16.
Valve bonnet structure. M. A. Markel and D. MacGregor. 2,610,820, Sept. 16.
Valve for pressure control systems. A. Lemos, Jr. 2,610,822, Sept. 16.
Variable unit pressure muller. R. L. McIlvaine. 2,610,802, Sept. 16.
Varying the count of roving in carding machines. H. G. Duesberg and C. A. Potter. 2,610,361, Sept. 16.
Vase, Ground. A. S. Carlson. 2,610,443, Sept. 16.
Vehicle bumper. A. Schuettpelz. 2,610,881, Sept. 16.
Vehicle heating apparatus. L. W. Child. 2,610,798, Sept. 16.
Vehicle tire traction device. K. E. Schonert. 2,610,665, Sept. 16.
Vehicle turn indicating switch. S. L. Fuller. 2,611,046, Sept. 16.
Vehicle washing apparatus. C. C. Griffiths. 2,610,342, Sept. 16.
Vehicular parking installation. W. P. Brower and W. I. Gadkowski. 2,610,364, Sept. 16.
Ventilated toilet bowl. R. H. Miller. 2,610,328, Sept. 16.
Ventilating and heating system. P. B. Davis. 2,610,567, Sept. 16.
Ventilating device for automobiles. H. C. Schreckengost. 2,610,566, Sept. 16.
Vessel, Drinking. N. E. Clemensen. 2,610,489, Sept. 16.
Vibrator. H. E. Pouell. 2,611,015, Sept. 16.
Washing machine. G. C. Graham. 2,610,497, Sept. 16.
Washing machine, Jet circulation. T. F. Russell. 2,610,499, Sept. 16.
Water-resistant polyvinyl alcohol filament and producing same. E. T. Cline, P. S. Pinkney, L. Plambeck, Jr., and H. B. Stevenson. 2,610,360, Sept. 16.
Water softening apparatus. H. F. Purcell and E. K. Butler. 2,610,945, Sept. 16.
Wearing shoes for ore separators. E. C. Bitzer. 2,610,739, Sept. 16.
Well head seal. J. E. Eckel. 2,610,689, Sept. 16.
Wheel control mechanism for golf club carriages. W. C. Alexander. 2,610,864, Sept. 16.
Wheel hub cable power unit combination winch and hoist. J. Heller. 2,610,826, Sept. 16.
Wick oiler. O. H. Jung. 2,610,706, Sept. 16.
Window and ventilator actuator and lock. H. S. Carlston and H. E. Morrow. 2,610,848, Sept. 16.
Window blind assembly for vehicles. G. A. Hamrick. 2,610,712, Sept. 16.
Window construction. C. Jansen. 2,610,370, Sept. 16.
Winterized glyceride oil and producing the same. K. F. Mattil. 2,610,915 Sept. 16.
Work holder attachment for easels. W. G. Clayton. 2,610,558, Sept. 16.
Work supporting and guiding device for shoe sewing machines. L. P. Simmons and F. J. Connova. 2,610,597, Sept. 16.
Wrench: *See*—
Slidable outer jaw plier-type wrench.
Yarn carrier rod control mechanism for knitting machines. H. C. Pingel. 2,610,512, Sept. 16.
Yarn feed mechanism for knitting machines. M. Zimic and A. Miskovsky. 2,610,493, Sept. 16.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 16, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

2— 3: 2,610,322
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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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CLASSIFICATION OF DESIGNS

D 2— 3: Des. 167,744
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D 7— 7: Des. 167,737
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U. S. GOVERNMENT PRINTING OFFICE: 0—1952

Condition of Applications Under Examination at Close of Business August 29, 1952

Total number of patent applications awaiting action, 95,223. Date of oldest new application, November 30, 1951; date of oldest amended application, November 30, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	12-15-51	12-10-51	1457
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-2-52	1-16-52	1150
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1-31-52	1-29-52	1640
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	12-6-51	12-12-51	1430
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-7-51	12-3-51	1176
6. SURLE, H., Carbon Chemistry (part)	1-4-52	1-2-52	1893
7. ANDERSON, E. G. (Acting), Optics; Photography (part)	1-3-52	1-2-52	1338
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	1-2-52	1-2-52	1405
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	12-3-51	12-3-51	1458
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	12-20-51	12-19-51	1332
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	12-10-51	12-6-51	861
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-10-51	12-10-51	1295
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	12-6-51	12-6-51	1180
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus.	12-10-51	12-10-51	1484
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	1-29-52	1-30-52	1386
16. LOVEWELL, N. N., Television, Telephony	12-13-51	12-14-51	1314
17. LEIGHY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-6-51	12-11-51	1323
18. KURZ, J. A., Power Plants; Speed Responsive Devices	11-30-51	11-30-51	883
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-2-52	12-17-51	1067
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	12-29-51	12-28-51	1352
21. MADER, R. C., Textiles	12-7-51	12-4-51	1285
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-10-51	12-11-51	1065
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12-26-51	1-2-52	709
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	1-2-52	1-2-52	1439
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	12-18-51	12-10-51	1329
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	12-5-51	12-10-51	1214
27. JAMES, S., Brushing, Scrubbing: Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	12-18-51	12-17-51	1653
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	11-30-51	12-3-51	1262
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	12-4-51	12-8-51	1202
30. BISHOFF, A., Fluid Sprinking, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	1-5-52	1-5-52	1506
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	12-13-51	12-17-51	2226
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-proportioning Systems.	12-17-51	12-15-51	1214
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-7-51	12-6-51	1837
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	12-20-51	12-14-51	1129
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	12-13-51	12-7-51	1360
36. McFADYEN, A. D., Measuring and Testing	12-19-51	12-21-51	1115
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	1-2-52	12-29-51	1212
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	12-6-51	12-6-51	1608
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	1-15-52	1-2-52	1633
40. DRUMMOND, E. J., Receptacles (part); Packages	2-1-52	2-1-52	1283
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	1-2-52	1-2-52	901
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	12-28-51	12-26-51	1010

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 95,223. Date of oldest new application, November 30, 1951; date of oldest amended application, November 30, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	12-21-51	1-2-52	1370
44. HARVEY, L. P., Beds; Chairs; Seats	12-4-51	12-3-51	1188
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	12-27-51	12-26-51	1193
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-5-51	12-1-51	1130
47. KANOF, W. J., Mining, Quarrying and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-7-51	12-7-51	1572
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-16-51	12-17-51	1603
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-1-51	12-1-51	1376
50. BENGEL, W. G., Synthetic Resins; Rubber	1-29-52	1-29-52	1492
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	12-28-51	12-28-51	1359
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-5-52	1-2-52	2014
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-18-52	1-8-52	935
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-8-51	12-3-51	1650
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	12-11-51	12-7-51	1037
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	12-21-51	12-24-51	1917
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-8-52	1-7-52	1598
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	12-7-51	11-30-51	1168
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-2-52	12-31-51	1054
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	1-30-52	1-2-52	876
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-14-51	12-6-51	1274
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	1-11-52	1-15-52	1187
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-6-51	12-7-51	1690
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	12-4-51	12-14-51	1662
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	12-17-51	12-10-51	1450
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	12-1-51	12-3-51	931
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	2-9-52	1-17-52	1203
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-14-52	1-3-52	1418
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	12-1-51	12-1-51	1233
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-6-51	12-5-51	2937
DESIGNS: A. BREHM, G. L., Industrial Arts	5-27-52	5-21-52	619
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	5-5-52	5-7-52	760

Total number of trade-mark applications awaiting action (including renewals and republications), 15,094. Date of oldest new application, March 10, 1952; date of oldest amended application, March 10, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	3-11-52	3-11-52	3695
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	3-10-52	3-10-52	3695
Renewals (All Classes)	6-4-52	7-17-52	818
Republications (All Classes)	5-17-52	4-17-52	288
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	3-11-52	3-11-52	3571
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	3-21-52	3-17-52	3027

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE WARREN

No. 5850. Decided February 18, 1952

[194 F.2d 719; 93 USPQ 33]

1. DOUBLE PATENTING—DESIGNS—ELECTED DESIGN CONSTITUTES PRIOR ART.

Where a design is rejected as unpatentable over the applicant's elected design *Held* that the elected design conatitutes prior art and may be considered as a basic reference to be used in connection with other art.

2. PATENTABILITY—PARTICULAR SUBJECT MATTER—ELBOW TYPE FITTING.

A certain design for an elbow type fitting *Held* properly rejected as unpatentable over the applicant's elected design.

AFFIRMED.

APPEAL from Patent Office. Serial No. D-136,798.

Smith, Michael & Gardiner (*William A. Smith, Jr.*, of counsel) for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This appeal was taken from a decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner finally rejecting the sole claim of appellant's application, Serial No. D-136,798, for a design for an elbow pipe fitting. The claim reads as follows:

The ornamental design for an elbow fitting, as shown.

This appeal is a companion to Appeals Nos. 5848 and 5849, concurrently decided herewith.

The involved application is one of a group filed by appellant, all of which were held by the Examiner to be individually patentable but not patentably distinguishing over each other. Responding to a requirement to elect, appellant elected the design shown in Serial No. D-136,800, whereupon that application was withheld from issue pending decision herein.

The rejection of the involved claim was based upon the opinion of the Examiner that it failed to distinguish patentably over the elected design, in view of certain illustrations in the November 1939 and September 1945 issues of Modern Plastics.

The involved design is an elbow pipe fitting adapted apparently for a piping system. On its two ends are two relatively large cylindrically shaped collars connected by a box-like L-shaped elbow or corner member. On the outermost surface of each of the ends is a round, tapered, webbed boss. The L-shaped member is flat on the top and sides with a curved portion connecting the top with the outer side.

The Examiner properly noted that the involved design differs from the elected design only in the form of the end collars and in the way in which the box-like corner edges merge with those collars. He further noted that the end collars of the instant design are shown in the Modern Plastics citations heretofore set out. Therefore, the Examiner held that it would not involve invention merely to substitute the collars of the citations for those shown or indicated on the elected design and that the difference caused by the merger of the box-like corner ends with the end collars is but a minor detail not creating any unexpected or distinctive appearance in the design.

[1] It has been contended by counsel for appellant that the design of the allowed application does not constitute prior art and its use as a basic reference is error. We cannot agree with such contention. *In re Joseph Slepian*, 18 CCPA (Patents) 1393, 49 F.2d 835, 9 USPQ 307, 412 O. G. 283; *In re Barge*, 25 CCPA (Patents) 1058, 96 F.2d 314, 37 USPQ 546, 496 O. G. 270; *In re Asseff*, 36 CCPA (Patents) 867,173 F.2d 253, 81 USPQ 112, 622 O. G. 625.

We are unable to perceive that merely by providing such fitting designs with large cylindrical collars with decorative boxes thereon and merging the box-like corner directly with the collars is novel, nor does it so change the design of the elected application as to create a different and inventive design therefrom.

We recently stated in the case of *In re Eugene L. Johnson, Jr.*, 36 CCPA (Patents) 1175, 175 F.2d 791, 82 USPQ 199, 627 O. G. 911, as follows:

While patentable designs may result from regrouping familiar forms and decorations, the substitution of a slightly different form already in use in articles of the class to which the design is applied, does not merit a monopoly.

That statement we consider apposite here.

[2] We do not deem it necessary to prolong the discussion of the issue and for the reasons hereinbefore set out, the decision of the Board of Appeals is affirmed.

AFFIRMED.

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U. S. Court of Customs and Patent Appeals

IN RE WARREN

No. 5849.—Decided February 18, 1952

[194 F.2d 718; 93 USPQ 32]

PATENTABILITY—PARTICULAR SUBJECT MATTER—ELBOW TYPE FITTING.

A certain design for an elbow type fitting *Held* properly rejected as unpatentable over the applicant's elected design.

AFFIRMED.

APPEAL from Patent Office. Serial No. D–136,797.

Smith, Michael & Gardiner (*William A. Smith, Jr.*, of counsel) for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner who rejected the single claim for a patent on an invention described in appellant's application as "a new, original and ornamental design for an Elbow Type Fitting."

The appealed application, Serial No. D–136,797, which was included and argued together with Appeal No. 5848 and Appeal No. 5850 and concurrently decided herewith, relates to the rejection of the single claim in one of a group of three copending applications for design patents on various types of multiple pipe fittings.

The respective rejections were based, among other things, on the holding that each of the claimed designs was individually patentable but not patentably distinguishable from one another, in view of the elected and preferred design claimed in appellant's application, Serial No. D–136,800, the allowance of which has been authorized but withheld from issue by the Patent Office pending the disposition of this and the other companion appeals.

The appealed claim in the present case reads: "The ornamental design for an elbow type fitting as shown." The following excerpt from the decision of the Board describes the basis for the final rejection of the claim as unpatentable over appellant's elected design:

> The instant design is composed of two cylindrically-shaped collar-like ends disposed at right angles to one another and connected by a box-like, L-shaped corner member. The corner member has a flat top and sides, with a curved portion connecting the top with the outer side. One of the end collars is relatively large and is provided with a round, tapered, webbed boss on its outer surface.
>
> The Examiner points out that the instant design differs from the elected design by disclosing a relatively larger cylindrical collar with a round, tapered, webbed boss on its outer surface, whereas the elected design discloses the form of the corresponding end in broken lines and hence is unessential. * * * It is his opinion that to add such a collar for the one illustrated in dotted lines would not produce any unexpected or unobvious appearance and would not require invention. He also contends that the difference due to the merging of the edges of the corner member with one end collar is a minor detail, and does not create any unexpected distinctive appearance in the design.

The Board sustained the action of the Examiner on the ground of rejection hereinbefore explained. The comparable general view between appellant's elected design and his claimed design which we have considered in the instant appeal compels us to conclude that no error was made in the decision of the Board from which the instant appeal was taken.

It is noted that the appealed claim was further rejected as not patentable over appellant's elected application in view of certain prior art references. We consider that no useful purpose would be served here by a discussion of that rejection.

For the reasons stated, the decision of the Board of Appeals is affirmed.

AFFIRMED.

U. S. Court of Customs and Patent Appeals

IN RE WARREN

No. 5848. Decided February 18, 1952

[194 F.2d 715; 93 USPQ 30]

1. DOUBLE PATENTING—DESIGNS—LACK OF PATENTABLE DISTINCTION IS GROUND FOR REFUSAL.

   Rule restated that a second design application may be refused on the ground of double patenting where the appealed application is not patentably distinct from an elected or issued copending design application by the same inventor.

2. SAME—SAME—CRITERIA.

   Held that in considering the question of double patenting in design cases, the essential question is whether the appealed design is sufficiently different in ornamental appearance when compared to the elected application so that, there is a separate and distinct invention involved therein.

3. PATENTABILITY — INVENTION — CRITERIA IN DESIGN CASES.

   It is well settled that a design to be inventive must produce a substantially different aesthetic effect and requires a display of exceptional talent which is something more than that of the ordinary artisan or designer.

4. SAME—PARTICULAR SUBJECT MATTER—DESIGN FOR DOUBLE SWIVEL FITTING.

   A certain design for a double swivel fitting *Held* properly rejected as not patentably distinct from applicant's elected design.

AFFIRMED.

APPEAL from Patent Office. Serial No. D–136,796.

Smith, Michael & Gardiner (*William A. Smith, Jr.*, of counsel) for appellant.

E. L. Reynolds (*S. W. Cochran* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner on the single claim in appellant's application for a design patent on a "Double Swivel Fitting."

The appealed application, Serial No. D–136,796, is one of a group of copending applications filed by appellant for design patents on various types of multiple pipe fittings. The Primary Examiner held the designs individually patentable but not patentably distinct from each other, and required appellant to elect the application he preferred to have issue as a patent. In response to this requirement, appellant indicated a preference for application Serial No. D–136,795 which application was then withheld from issue pending decision on some of the other applications, including that on appeal.

The design of the appealed application was then finally rejected by the Examiner as not patentably distinct from that claimed in appellant's elected application, Serial No. D–136,795. It was also further rejected as not patentable over appellant's elected application in view of certain prior art references.

The references relied on in addition to appellant's elected application are:

Gold et al., 1,781,457, November 11, 1930.
Modern Plastics, December 1938, p. 12.
Modern Plastics, November 1939, p. 132.
Modern Plastics, September 1945, p. 237.

The elected application, Serial No. D–136,795, relates to a multiple pipe fitting which is generally U-shaped and comprises first and second 90° L-shaped elbow members joined together at the bridge of the U with one end of the first elbow telescoped into an enlarged collar on one end of the second elbow. The enlarged collar has a webbed boss on it. The corners of the elbows comprise a plurality of flat surfaces the junctions of which are rounded off. This gives the corners a semi-box-like appearance. The legs of the U are substantially identical, each elbow having a plain cylindrical collar at the end thereof. This collar is somewhat smaller than the enlarged collar of the second elbow referred to above and is joined to the semi-box-like corner of the elbow by a narrowed neck portion.

The appealed design consists in part of a U-shaped swivel fitting very similar to that of the design in the elected application described above. The major point of difference between the designs is that the appealed design has a third 90° L-shaped elbow member telescoped into the second collar of the second elbow of the U-shaped fitting; the resulting fitting is of course no longer U-shaped. This third elbow appears to be identical with the first L-shaped elbow of the U-shaped fitting. Close comparison of the appealed and elected designs indicates that they vary in some other details. On the second elbow of the appealed design there is no narrowed neck portion between the cylindrical collar on that leg of the U and the corner of the elbow, this latter collar being somewhat enlarged so that one collar of the third elbow may be telescoped within it. Also, there is a second small ribbed boss on this latter enlarged collar, and the corner of the second elbow of the U member in the appealed design is not precisely the same as that in the elected application.

The Examiner held the appealed application not patentably distinct from the elected application because, in his opinion, the differences between the two "involve essentially the omission or the addition of small details." The Board sustained this rejection of the Examiner stating that it regarded the designs as being substantially identical except for the addition in the appealed design of the third L-shaped elbow, and that, in its opinion, the average observer would consider the appealed and elected designs to be essentially the same.

The Examiner's other grounds of rejection of the appealed design on the elected design in view of other prior art were not discussed by the Board. However, not having been expressly overruled by the Board, they may, if necessary, be considered by this court. *In re Boyce*, 32 CCPA (Patents) 718, 144 F.2d 896, 63 USPQ 80, 568 O. G. 568. However, if the above-discussed holding of the Patent Office tribunals that the appealed and elected designs are not patentably distinct is correct, it will not be necessary for this court to consider the merits of the other grounds of rejection advanced by the Examiner.

It is clear that in considering whether appellant's appealed and elected applications are patentably distinct the question involved is essentially the same as that in a rejection on double patenting.

[1] This court has stated that an inventor is entitled to only one patent for one invention. *In re Fischer*, 19 CCPA (Patents) 1077, 57 F.2d 369, 13 USPQ 144, 420 O. G. 814 (a utility patent case). We have also held that a second design application may be refused on the ground of double patenting where the appealed application is not patentably distinct from an elected or issued copending design application by the same inventor. *In re La Montagne*, 19 CCPA (Patents) 880, 55 F.2d 486, 12 USPQ 195, 418 O. G. 271. It is not a question whether standing alone appellant's design is inventive, but the question is whether it is inventive over the claimed design of appellant's elected or issued application. See *In re Copeman*, 30 CCPA (Patents) 962, 135 F.2d 349, 57 USPQ 312, 553 O. G. 562 (a utility patent case).

[2] The two applications involved here being for design patents, the essential question is whether the appealed design is sufficiently different in ornamental appearance when compared to the elected application Serial No. D–136,795 so that there is a separate and distinct invention involved therein.

To set out a hard and fast rule of what constitutes invention in a design application is difficult, if not impossible. *In re Jabour*, 37 CCPA (Patents) 1084, 182 F.2d 213, 86 USPQ 98, 640 O. G. 11; *In re Faustmann*, 33 CCPA (Patents) 1065, 155 F.2d 388, 69 USPQ 541, 589 O. G. 493.

[3] We think it well settled, however, that a design to be inventive must produce a substantially different aesthetic effect and requires a display of exceptional talent which is something more than that of the ordinary artisan or designer. *In re Hoffmann*, 19 CCPA (Patents) 1185, 58 F.2d 422, 13 USPQ 223, 422 O. G. 309; *Nat Lewis Purses, Inc.* v *Carole Bags, Inc.*, 83 F.2d 475.

Viewing the two involved designs as a whole, it is our opinion that the appealed design does not present a substantially different aesthetic effect from that of appellant's elected design application. The above-noted distinctions between these two design applications have been urged upon us by appellant as sufficiently different and inventive to render the appealed design patentably distinct from the elected design, thus warranting the issuance of both as patents. Notwithstanding these differences,

which we regard as mere differences in detail, we agree with the Board that the over-all appearance of these two designs would be considered essentially the same by the average observer. Nor do we think that such differences as there are required a display of exceptional talent beyond that of an ordinary designer or artisan.

[4] We therefore agree with the Board's holding that the appealed design is not patentably distinct from that in appellant's elected design application, Serial No. D–136,795.

Having reached this conclusion, it is unnecessary for this court to consider the merits of the Examiner's rejections based on appellant's elected application in view of other prior art.

In view of the foregoing, the decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,074,698. (See Re. 21,323.)

2,093,430, Franklin & Aldham, Oil filter, filed June 26, 1952, D. C., E. D. Tex. (Tyler), Doc. 2093430, *Fram Corp.* v. *Web Filter Co.*

2,098,705. (See Re. 20,975.)

2,211,212. (See Re. 21,323.)

2,234,701, H. T. Lyman, Corner construction, filed June 24, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1314, *The Richkraft Co.* v. *Vendley Construction.*

2,270,737. (See Re. 21,323.)

2,270,838. (See Re. 21,323.)

2,298,980. (See 2,337,574.)

2,328,382. (See Re. 21,323.)

2,337,574, 2,298,980, 2,349,469, Sloan & Eberman, Filter and method for making same; 2,337,575, Sloan & Eberman, Apparatus for making filters; 2,355,714, A. H. Eberman, Apparatus for making filters; 2,337,579, Walker & Buck, Filter elements, filed July 2, 1952, D. C. Conn. (New Haven), Doc. 3895, *Hawley Products Co.* v. *The Cuno Engineering Corp.*

2,337,575. (See 2,337,574.) 2,337,579. (See 2,337,574.)

2,349,469. (See 2,337,574.) 2,355,714. (See 2,337,574.)

2,371,449. (See Re. 21,323.)

2,382,427. (See Re. 21,323.)

2,475,277, F. O. Budnik, Plastic bag having fused seams between wall-forming strips and slide-fastener tapes, filed July 2, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1423, *Fabrico Mfg. Corp.* v. *F. O. Budnik.*

2,487,339, V. M. Kindlund et al., Device for embracingly holding gloves, D. C., N. J. (Newark), Doc. 963/49, *Klik Promotions, Inc.* v. *Kindlund et al.* Consent judgment of dismissal July 5, 1952.

2,496,381, W. G. Cummings, Dope brush, D. C., N. D. Okla. (Tulsa), Doc. 2855, *W. D. Moore* v. *W. G. Cummings.* Patent held invalid Feb. 1, 1952.

2,515,403, Greenleaf & Webster, Back presser mop, D. C., N. D. Ill. (Chicago), Doc. 51c382, *Sponge Products Corp. et al.* v. *Fuller Brush Co.* Complaint and counterclaim dismissed June 27, 1952.

2,553,301, H. M. Colby, Girdle, D. C., N. D. Ill. (Chicago), Doc. 51c1716, *Kabo, Inc.* v. *The Fair.* Consent decree holding patent valid and infringed June 27, 1952. Doc. 51c1907, *Bestform Foundations, Inc.* v. *Kabo, Inc.* Consent decree holding patent valid and infringed June 27, 1952.

Re. 20,975 (of 2,098,705), G. A. Houseman, Awning, Des. 154,550, Korman & Harrison, Canopy, filed July 3, 1952, D. C., N. D. Ohio (Cleveland), Doc. 6839, *Kool Vent Metal Awning Corp. of America* v. *American Beauty Ventilated Awning Co.*

Re. 21,323 (of 2,074,698), J. D. Langdon, Flush valve unit; 2,211,212, 2,270,737, 2,270,838, 2,382,427, same, Siphon breaker and valve; 2,328,382, same, Flexible check valve and vacuum breaker; 2,371,449, same, Valve, filed July 7, 1952, D. C., E. D. N. Y. (Brooklyn), Doc. C–12743, *Eureka Vacuum Breaker Corp.* v. *Saltzer & Weinster.*

Des. 151,732, W. G. Bley, Lady's stocking, D. C., E. D. Pa. (Philadelphia), Doc. 13412, *Samson Hosiery Mills, Inc., et al.* v. *Strong Wear Hosiery Co.* Consent judgment in favor of plaintiff and granting injunction June 30, 1952.

Des. 154,550. (See Re. 20,975.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 183,004, Indianapolis Pump & Tube Co., Vehicle exhaust heater; T. M. 352,144, Noblitt-Sparks Industries, Inc., Storage-battery chargers for room heaters embodying electrical resistance elements; T. M. 352,329, T. M. 367,700, T. M. 506,447, same, Automobile heaters; T. M. 507,593, same, Radio receiving sets, portable electric room heaters, etc.; T. M. 514,371, same, Metal furniture, filed July 1, 1952, D. C., S. D. N. Y., Doc. 77/50, *Arvin Industries, Inc.* v. *United-Arvin Corp.*

T. M. 352,144. (See T. M. 183,004.)

T. M. 352,329. (See T. M. 183,004.)

T. M. 367,700. (See T. M. 183,004.)

T. M. 408,609, Trimz Co., Inc., Decorative paper specialties; T. M. 535,225, same, Draperies and fabric wall coverings made of rayon and cotton, filed June 30, 1952, D. C., S. D. N. Y., Doc. 77/35, *United Wallpaper, Inc.* v. *Greenberg-Kahner Co.*

T. M. 500,299, The Lovable Brassiere Co., Brassières, filed June 27, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 14292–T, *The Lovable Brassiere Co.* v. *Lykable Bra Corp. et al.*

T. M. 506,447. (See T. M. 183,004.)

T. M. 507,593. (See T. M. 183,004.)

T. M. 514,294, American Airlines, Inc., Air transport of passengers and freight, D. C., N. J. (Newark), Doc. 403/52, *American Airlines, Inc.* v. *European-American Airlines, Inc.* Cause dismissed, consent order for injunction (notice July 1, 1952).

T. M. 514,371. (See T. M. 183,004.)

T. M. 535,225. (See T. M. 409,609.)

NOTICES

Adjudicated Patent

(D. C. Tex.) Salzer Reissue Patent No. 22,956, for a machine for forming radiator fins, *Held* invalid and not infringed. *Daniel et al.* v. *O. & M. Mfg. Co. et al.*, 105 F. Supp. 336; — USPQ —.

Disclaimers

2,556,345.—*Aaron Sivitz,* Columbus, Ohio, and *Philip L. Ruby,* Jackson, Mich. AIRCRAFT CONTROL SYSTEM. Patent dated June 12, 1951. Disclaimer filed Aug. 13, 1952, by the assignee, *Curtiss-Wright Corporation.*

Hereby enters this disclaimer to claims 4, 5, 6, 7, and 8 of said patent.

2,600,037.—*Paul B. West,* Saco, Maine. BALLER. Patent dated June 10, 1952. Disclaimer filed Aug. 8, 1952, by the assignee, *Saco-Lowell Shops.*

Hereby enters this disclaimer to claim 1 of said patent.

Interference Notice

Lorin M. Sims, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Rice Growers Association of California, P. O. Box 958, Sacramento, Calif., for registration of a trade-mark, and Registration No. 372,661 issued November 7, 1939, to Lorin M. Sims, No. 1 Division Street, San Francisco, Calif., and the notice of such declaration sent by registered mail to the said Lorin M. Sims at the said address of record having been returned by the post office undeliverable, notice is hereby given that unless said Lorin M. Sims, his assigns or legal representatives shall enter an appearance therein, within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Sept. 2 1952.)

JOHN A. MARZALL,
Commissioner of Patents.

Aug. 12, 1952.

Cross-References in Cases Relating to Same Subject

When an applicant files an application claiming an invention disclosed in a prior filed application of the same applicant, the second application must contain a reference to the prior application, identifying it by serial number and filing date and indicating the relationship of the applications. When an applicant files, or a common assignee owns, two or more applications relating to the same subject matter of invention, with one or more of the applications disclosing unclaimed matter that is disclosed and claimed in another of the applications, the applications not claiming it must refer to and identify the application claiming it. Cross-references to other related applications may be made when appropriate.

Applicant's Address

The requirement of Rule 61, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

Notice Regarding Payment of Fees

RULE 22. Fees and charges payable to the Patent Office are required to be paid in advance, that is, at the time of making application for any action by the Office for which a fee or charge is payable.

RULE 23. All payments of money required for Patent Office fees should be made in United States specie, Treasury notes, national bank notes, post office money orders or postal notes payable in Washington, D. C., or by certified checks. If sent in any other form, the Office may delay or cancel the credit until collection is made. Money orders and checks must be made payable to the Commissioner of Patents. Remittances from foreign countries must be payable and immediately negotiable in the United States for the full amount of the fee required. Money sent by mail to the Patent Office will be at the risk of the sender; letters containing money should be registered.

Amendments of Drawings

RULE 123. No change in the drawing may be made except by permission of the Office. Permissible changes in the construction shown in any drawing may be made only by the Office. A sketch in permanent ink showing proposed changes, to become part of the record, must be filed. The paper requesting amendments to the drawing should be separate from other papers. The drawing may not be withdrawn from the Office except for signature.

Substitute drawings will not ordinarily be admitted in any case unless required by the Office.

Reservation Clauses Not Permitted

RULE 79. A reservation for a future application of subject-matter disclosed but not claimed in a pending application will not be permitted in the pending application.

Examiners' Letters and Amendments

Examiners are directed to recite in each letter in an application the date of the action by the applicant to which it is a reply, and applicants are requested to indicate in their actions on an application the date of the last Office letter.

Adverse Decisions in Interference

Where the claims of a patent are affected by adverse decision or concession of priority as the result of an interference, a notice as to the patented claims thus affected will be published in the OFFICIAL GAZETTE after final decision in the proceedings.

Use of Patented Drawing in a Reissue

The drawings upon which the original patent was issued may be used in reissue applications if no changes whatsoever are to be made in the drawings. In such cases, when the reissue application is filed, the applicant must submit a temporary drawing which may consist of a copy of the printed drawings of the patent or a photoprint of the original drawings securely mounted by pasting on sheets of drawing board of the size required for original drawing, or an order for the same.

Amendment Filed by an Attorney Not of Record

When an amendment is filed, signed by an attorney whose power is not of record, he, as well as the applicant, should be notified that the amendment cannot be entered.

When the Examiner's letter is of such a character that the six months for amendment runs from the date of a previous action, a statement to that effect should be made at the end of the letter and the date from which the six months runs given.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

International Harvester Company has placed 101 patents on the Register as available for licensing on reasonable terms, in addition to more than 1400 patents previously registered. Of these patents, 54 were listed in the OFFICIAL GAZETTE, Sept. 9, 1952. The following 47 constitute the remainder of the listing.

Applications for licenses should be addressed to: Patent Department, International Harvester Company, 180 North Michigan Ave., Chicago 1, Ill.

Pat. 2,546,750. Conveyer for Tractor-Mounted Corn Pickers. Patented Mar. 27, 1951. Relates to provision in a tractor-mounted corn picker of a wagon elevator to be carried at the rear of the tractor, and means to feed material transversely at the rear of the tractor prior to upward and rearward elevation of the material. Group 35—22—62. Reg. No. 48,696.

Pat. 2,551,415. Combination Lid Supporting Brace and Latching Device. Patented May 1, 1951. Relates to combination latching device and supporting brace for cabinets, which operates to limit the distance such lids or covers may be raised, and which, in addition, operates automatically to hold the lid firmly in raised position until manually released. Group 35—84. Reg. No. 48,697.

Pat. 2,551,451. Implement Hitch. Patented May 1, 1951. Relates to a hitch structure for connecting an implement to a tractor, offering resilient relative longitudinal and lateral movement between the implement and the tractor. Group 35—22. Reg. No. 48,698.

Pat. 2,551,453. Fluid-Actuated Ram Couple. Patented May 1, 1951. Relates to a base coupling means pivotally associated with the ram unit so it can be manipulated as desired without incurring bends or kinks in the base. Group 35—22. Reg. No. 48,699.

Pat. 2,551,454. Auxiliary Power-Transmitting Apparatus for Tractors. Patented May 1, 1951. Relates to an auxiliary power transmitting apparatus utilizing planetary gearing controllable by selectively applying braking force to brake drums thereof to cause a driven part of the apparatus to be driven in either of opposite directions from a constantly rotatable driving structure. Group 35—21—22. Reg. No. 48,700.

Pat. 2,551,460. Drying Barn for Agricultural Crops. Patented May 1, 1951. Relates to a storage barn having an improved construction for drying cut cattle-feed such as hay after it has been stored within the barn. Group 35—22. Reg. No. 48,701.

Pat. 2,551,461. Bagger Attachment for Harvesters With Swingably Mounted Bag Supports. Patented May 1, 1951. Relates to a grain bagging attachment for harvesters directly connected to tractors, wherein bags may be filled by the operator of the implement. Group 35—22. Reg. No. 48,702.

Pat. 2,551,464. Uniform Tension Apparatus for Bale Chamber Discharge Openings. Patented May 1, 1951. Relates to a hay baler, and more particularly to means provided for maintaining uniform bale chamber tension regardless of the moisture content of the hay or other material being baled. Group 35—22. Reg. No. 48,703.

Pat. 2,551,471. Taper Bearing Race Gauge. Patented May 1, 1951. Relates to a gauge which measures the large and small diameters of a tapered race at the same time. Group 35—42—65. Reg. No. 48,704.

Pat. 2,555,303. Nozzle Clamp. Patented June 5, 1951. Relates to a nozzle clamp designed especially for quick removal or attachment to pipes or tubes that require repetitive cleaning. Groups 33—59—61; 35—61—69. Reg. No. 48,705.

Pat. 2,555,529. Palleting Arrangement for Transporting Devices. Patented June 5, 1951. Relates to a series of superposed pallets adapted to be positioned in a transporting device in a novel manner wherein the pallets may readily be secured against relative movement. Groups 35—63—69; 37—99. Reg. No. 48,706.

Pat. 2,555,537. Delivery Hopper for Portable Storage Bins. Patented June 5, 1951. Relates to a combination hopper and spacer device capable of adjoining two portable storage bins in such a manner that the contents of both bins are maintained separate and both readily available for use by an assembly operator. Group 35—22—69. Reg. No. 48,707.

Pat. 2,555,541. Control Means for Mower Cutter Bars. Patented June 5, 1951. Relates to a control means for limiting rearward swinging of the cutter bar of a mower when released. Group 35—22. Reg. No. 48,708.

Pat. 2,555,543. Milker Pail Cover With Fluid Trap Chamber. Patented June 5, 1951. Relates to provision of a fluid trap associated with the milker pail cover and a pulsator connection for preventing the entrance of undesirable liquid into a milker receptacle. Group 35—22. Reg. No. 48,709.

Pat. 2,555,549. Implement Lifting Device. Patented June 5, 1951. Relates to a tractor-mounted planter having means on the tractor for determining the depth at which seed or other material is to be deposited in the ground. Group 35—22. Reg. No. 48,710.

Pat. 2,555,554. Agricultural Implement. Patented June 5, 1951. Relates to a tractor-drawn disk plow and mechanism deriving its power from the tractor for moving the disks between operating and transport positions. Group 35—22. Reg. No. 48,711.

Pat. 2,555,555. Two-Way Plow. Patented June 5, 1951. Relates to a tractor-mounted two-way plow having means provided for leveling the earth-working tool when one wheel of the tractor is traveling in a furrow. Group 35—22. Reg. No. 48,712.

Pat. 2,555,556. Adapter Frame for Conversion of Truck to Bus Chassis. Patented June 5, 1951. Relates to the provision of an adapter frame which may be easily affixed to a conventional automotive truck chassis for conversion thereof to a chassis suitable for use in a passenger bus type vehicle. Group 38—22. Reg. No. 48,713.

Pat. 2,555,558. Wagon Unloader and Elevator Power Drive Mechanism. Patented June 5, 1951. Relates to a vehicle such as a wagon having a movable bottom and a scraper mechanism actuated by the power unit of an elevating device. Group 35—22. Reg. No. 48,714.

Pat. 2,555,559. Wagon Hitch Leveling Device. Patented June 5, 1951. Relates to a hitch for joining a wagon to a harvester in such a manner that the height of the wagon tongue remains relatively constant regardless of vertical adjustment of the pulling harvester. Group 35—22—69. Reg. No. 48,715.

Pat. 2,558,928. Resiliently Mounted Operator's Station for Tractors. Patented July 3, 1951. Relates to a tractor operator's station wherein a foot rest platform is resiliently mounted, as well as the seat, to diminish distortions and vibrations in the operator's body whether the operator is seated or standing on the platform during vehicle operation. Group 35—21. Reg. No. 48,716.

Pat. 2,562,576. Two-Speed Drive. Patented July 31, 1951. Relates to a two-speed reversible power transmitting mechanism which is particularly useful in combined side delivery hay rakes and tedders. Group 35—22. Reg. No. 48,717.

Pat. 2,564,876. Mower. Patented Aug. 21, 1951. Relates to a quickly attachable mower having a frame carried midway between the front and rear wheels of the tractor, and a cutter for extending laterally to one side thereof. Group 35—22. Reg. No. 48,718.

Pat. 2,564,888. Cab Mounting for Motor Vehicles. Patented Aug. 21, 1951. Relates to a cab and hood construction movable as a unit and providing aligned pivot points for oscillating movement of the entire structure about a longitudinal axis, and stabilizing means for said structure. Group 38—11. Reg. No. 48,719.

Pat. 2,564,930. Blower Pipe Access Door. Patented Aug. 21, 1951. Relates to a discharge conduit for an ensilage or like-type blower, including a removable access door through which the operator may remove blockage of material within the conduit. Group 35—22. Reg. No. 48,720.

Pat. 2,564,940. Convertible Box Structure. Patented Aug. 21, 1951. Relates to a container for shipping articles, said container being constructed to be readily converted into a storage bin. Group 25—54. Reg. No. 48,721.

Pat. 2,564,943. Insulation Seal for Refrigerated Cabinets. Patented Aug. 21, 1951. Relates to a refrigerator cabinet sealing construction for sealing the insulation medium disposed between the inner and outer walls of the cabinet. Group 35—84. Reg. No. 48,722.

Pat. 2,569,175. Ribbed Corn Snapping Roll With Rubber Inserts. Patented Sept. 25, 1951. Relates to a corn-snapping roll which will snap ears of corn without breaking the stalk or shelling the corn, and one which will have a long wearing life. Group 35—22. Reg. No. 48,723.

Pat. 2,569,187. Portable Milking Machine. Patented Sept. 25, 1951. Relates to a signaling device synchronized with a milking machine to indicate the time elapsed in a milking operation. Group 35—22. Reg. No. 48,724.

Pat. 2,569,190. Bale Handling Vehicle. Patented Sept. 25, 1951. Relates to a vehicle construction adapted to cooperate with a baling unit whereby the discharged bales of said unit may be transported and subsequently placed upon the ground in stacks for storage purposes. Group 35—22. Reg. No. 48,725.

Pat. 2,569,191. Wagon Unloading Attachment for Pneumatic Elevators. Patented Sept. 25, 1951. Relates to a material-handling or -treating mechanism having flexible power drive means arranged to unload a wheeled vehicle which is arranged adjacent the material-treating means. Group 35—22. Reg. No. 48,726.

Pat. 2,569,193. Adjustable Shaft Mounting Means. Patented Sept. 25, 1951. Relates to a threshing cylinder adjustably positioned with respect to a concave and, further, providing spring yielding means for permitting raising of the cylinder with respect to the concave regardless of the previous adjustment. Group 35—22. Reg. No. 48,727.

Pat. 2,569,194. Apparatus for Plant Cultivation. Patented Sept. 25, 1951. Relates to a flame cultivator having a coreless flame and a burner for directing a broad flat flame upon the ground in such a manner as to cause the flame to cling to the surface and to flow across the plant row. Group 35—22. Reg. No. 48,728.

Pat. 2,569,201. Draft and Lift Mechanism for Potato Diggers. Patented Sept. 25, 1951. Relates to means for controlling the working depth of an agricultural implement, such as a potato digger, and for lifting same from a ground-working to a transport position. Group 35—22. Reg. No. 48,729.

Pat. 2,569,633. Frame and Engine Supports for Clutch Control Mechanism. Patented Oct. 2, 1951. Relates to means between a clutch pedal and a clutch throw-out member that will permit a resiliently mounted power plant to freely oscillate and, simultaneously therewith, move fore and aft along a longitudinal axis, without transmitting such motions, and the objectionable chatter resulting therefrom, to the clutch pedal. Group 35—66. Reg. No. 48,730.

Pat. 2,573,887. Rotary Stalk Cutter and Shredder. Patented Nov. 6, 1951. Relates to a rotary stalk cutter having stalk-shredding means associated therewith to effect a shredding of short cut lengths of stalk. Group 35—22. Reg. No. 48,731.

Pat. 2,573,908. Portable Elevator With Tensioning Means for Raising Conveyer Chute. Patented Nov. 6, 1951. Relates to a tensioning means which is arranged to urge the conveyer trough in an upward direction so that the energy required to raise the conveyer trough may be greatly diminished. Group 35—22—62. Reg. No. 48,732.

Pat. 2,573,921. Scraper Blade. Patented Nov. 6, 1951. Relates to a scraper for an earth-grader type of implement, said scraper having an adjustable cutting and gauge blade connected thereto. Group 35—31. Reg. No. 48,733.

Pat. 2,573,925. Corn Picker and Husker With Grain Recovery Device. Patented Nov. 6, 1951. Relates to inclined husking rolls in a corn picker having means therebeneath to recover grain shelled during the husking operation. Group 35—22. Reg. No. 48,734.

Pat. 2,573,927. Portable Milking Machine. Patented Nov. 6, 1951. Relates to portable milker pulsating mechanism having a valve arranged to provide more efficient regulation of the distribution of vacuum and atmospheric pressure to the teat cup. Group 35—22. Reg. No. 48,735.

Pat. 2,573,930. Farm Silo Personnel Elevator. Patented Nov. 6, 1951. Relates to a personnel elevator for silos whereby a farmer may ascend and descend a silo without using the silo ladder. Group 35—22. Reg. No. 48,736.

Pat. 2,573,937. Variable-Speed Pulley and V-Belt Transmission. Patented Nov. 6, 1951. Relates to adjustable V-pulleys interconnected in such manner that one pulley is always moved an equal amount to the adjustment of the other of the cooperative pulleys. Group 35—66. Reg. No. 48,737.

Pat. 2,577,328. Spring Balanced Receiving Conveyer for Portable Elevators. Patented Dec. 4, 1951. Relates to the receiving hopper for a portable elevator, which is provided with a spring balance that permits the hopper to be easily and quickly raised from an operating to a transport position. Group 35—22—62. Reg. No. 48,738.

Pat. 2,577,349. Corn-Shelling Attachment for Two-Row Corn Pickers. Patented Dec. 4, 1951. Relates to a corn-shelling attachment for a tractor-mounted corn picker, which shells the ears of corn picked from a pair of rows by separate shelling cylinders, and which transports the shelled grain to a position centrally of the two shelling cylinders. Group 35—22. Reg. No. 48,739.

Pat. 2,577,361. Ball Pump. Patented Dec. 4, 1951. Relates to a pump or compressor employing a plurality of spaced balls and mechanical means for gradually decreasing the space between the balls to thus automatically compress the fluid therebetween and/or compensate for back leakage. Group 35—61. Reg. No. 48,740.

Pat. 2,577,363. Mulch-Tiller-Planter. Patented Dec. 4, 1951. Relates to a machine which will kill the weed growth, till the ground to the desired depth, and plant and fertilize the new crop, while leaving a protective mulch of stubble on the surface of the ground. Group 35—22. Reg. No. 48,741.

Pat. 2,577,384. Tractor-Mounted Two-Way Plow. Patented Dec. 4, 1951. Relates to a two-way plow mounted upon a supporting frame, comprising alternately operable plowing units, lifting mechanism for raising the units to transport position, and latching mechanism independent of the lifting means for releasably holding the units in transport position. Group 35—22. Reg. No. 48,742.

Pat. 2,584,666. Aircraft Gust Alleviating Control Means. Patented Feb. 5, 1952. Reg. No. 48,743.

Pat. 2,584,667. Gust Alleviating Control Means for Airplanes. Patented Feb. 5, 1952. Reg. No. 48,744.

These two patents relate to aircraft control means for preventing sudden up or down acceleration of an airplane when encountering and flying through strong gusts. The wing structure is hinged to the fuselage along a hinge line through the wing rearwardly of the leading edge and forwardly of the aerodynamic center so as to render the wing structure swingable about the hinge axis in response to up-gusts and down-gusts encountered during flight of the airplane. A spring assembly is operative to automatically control swinging movement of the wing structure about the hinge axis during flight of the plane through up-gusts and down-gusts to prevent sudden up and down acceleration of the plane, and thus eliminate to a substantial extent the disagreeable and detrimental effects of the gusts. The spring assembly normally maintains the wing structure in predetermined operative position relative to the fuselage. (Owner) George E. Bockrath, 4317 Maury Ave., Long Beach 7, Calif. Group 37—21—22.

Pat. 2,582,405. Stud and Joist Layout Instrument. Patented Jan. 15, 1952. Instrument is useful to facilitate uniform spacing of studs and joists during the construction of buildings. A tape case containing a wound flexible measuring tape is removably inserted in the frame of the instrument. The tape has uniformly spaced holes along its length to correspond to the desired spacing of studs or joists, and an adjustable hook on the outer free end to engage a member from which measurements are to be made. The frame carries a detent in position to successively engage the holes in the tape, and a plunger that may be manually actuated to disengage the detent from the holes. A template on the frame is adapted to slidably engage a plate or sill to be marked for the placing of studs or joists. (Owner) Dwight M. Auchard, 9081 South Dale St., Anaheim, Calif. Groups 33—52; 35—65. Reg. No. 48,745.

Pat. 2,580,505. Stapling Machine. Patented Jan. 1, 1952. Machine permits easy, fast removal of staples blocking operation. The machine has a housing with a loading opening at its rear end and a stapling slot at its front end. An elongated staple support is removably insertable into the housing through the loading opening to reach the stapling slot. Retaining means removably pivots the staple support in the housing so that the same will pivot about the retaining means and properly guide staples along the staple support to the stapling slot. A lever may be manually actuated to operate the staple driving mechanism. (Owner) Balma, Capoduri & Co. Correspondence to Michael S. Striker, 511 Fifth Ave., New York 17, N. Y. Group 35—79. Reg. No. 48,746.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 16, 1952

[VOL. 662. No. 3]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 516,839. Max Haefeli, Basel, Switzerland. Filed Feb. 3, 1947.

PROTHACRYL

Applicant owns Swiss Registration No. 109,347, dated Nov. 20, 1944.

For Dental and Medical Materials for Dentures and Other Dental Purposes—Namely, Impression Materials and Orthodental Appliances.

Claims use since Nov. 20, 1944.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 585,961. Albert Teitelbaum, Beverly Hills, Calif. Filed Oct. 7, 1949.

MINK BLACK-MIST

The words "Mink" and "Black" are disclaimed.

For Mink Fur Pelts.

Claims use since Jan. 4, 1946.

Ser. No. 596,880. Frederic B. Stevens, Incorporated, Detroit, Mich. Filed May 4, 1950.

LIQUI-PART

The word "Part" is disclaimed.

For Parting Compounds.

Claims use since Apr. 1, 1950.

Ser. No. 608,836. The Sinkers Corporation, Kennett, Mo. Filed Jan. 16, 1951.

SINKERS

The lining represents shading.

For De-Linted Cotton Seeds.

Claims use since February 1943.

Ser. No. 616,038. James H. Knowles, doing business as James H. Knowles & Associated Breeders, Centralia, Wash. Filed July 3, 1951.

Northwester

For Poultry of Marketable Size, Chicks, and Hatching Eggs.

Claims use since on or about Oct. 1, 1947.

Ser. No. 631,347. Ecusta Paper Corporation, Pisgah Forest, N. C. Filed June 18, 1952.

ECUSTA

Applicant claims ownership of Registration No. 416,263.
For Regenerated Cellulose Film.
Claims use since May 20, 1952.

CLASS 2

RECEPTACLES

Ser. No. 537,760. Wheeling Steel Corporation, Wheeling, W. Va., assignor to Wheeling Corrugating Company, Wheeling, W. Va., a corporation of West Virginia. Filed Oct. 13, 1947. (Sec. 2f.)

Wheeling

For Metal Shipping and Storage Pails, Shipping and Storage Cans, Shipping and Storage Drums, and Shipping and Storage Barrels.
Claims use since in November 1929.

Ser. No. 562,899. Alexander Herz Co., Inc., New N. Y. Filed Aug. 6, 1948.



The words "Alexander Herz Company, New York," "Envelopes," "Glassine," and "Co." are disclaimed. The name Alexander Herz is that of the founder of the company, now deceased. Applicant claims ownership of Registration No. 154,049.
For Merchandise Envelopes, Made From Paper, Transparent or Translucent Sheet Material, or Combinations Thereof.
Claims use since in September 1921.

Ser. No. 615,283. Ozark Canvas Corp., North Little Rock, Ark. Filed June 16, 1951.

PROSPECTOR

For Water Bags.
Claims use since May 17, 1951.

Ser. No. 615,691. Clayton & Lambert Manufacturing Company, Louisville, Ky. Filed June 26, 1951.

SILVER SHIELD

For Metal Silos, and Metal Grain Bins.
Claims use since 1937.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 604,985. Saul Moses, doing business as Dentocide Chemical Company, Baltimore, Md. Filed Oct. 16, 1950.

SUR CHEM

For Waxes and Polishes for Cleaning and Polishing Automobiles.
Claims use since Mar. 24, 1950.

CLASS 5

ADHESIVES

Ser. No. 608,884. The National Cash Register Company, Dayton, Ohio. Filed Jan. 17, 1951.



Applicant claims ownership of Registrations Nos. 366,464 and 377,183.
For Adhesive Cement for Porous Rubber Marking Stamps.
Claims use since Apr. 18, 1950.

Ser. No. 611,642. The Decker Corporation, Glenside, Pa. Filed Mar. 22, 1951.

D/40+

The symbol "40 + " is disclaimed.
For Colorless, Transparent, Resinous, Technical Liquid Cement for Use in Uniting Materials Where High Technical Requirements Must Be Met
Claims use since Sept. 29, 1950.

Ser. No. 612,227. Advance Solvents & Chemical Corporation, New York, N. Y. Filed Apr. 5, 1951.

VISTAC

For Viscous Synthetic Liquid Softeners, Plasticizers, Tackifiers, and Modifiers for Use as an Ingredient of Adhesives, Such as of Shoe and Stationers' Adhesives, Adhesive Industrial Tapes, Adhesives for Laminating Compositions, and for Fur Backings.
Claims use since October 1938.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 588,544. Bostwick Laboratories, Inc., Bridgeport, Conn. Filed Nov. 30, 1949.

AIR KING

The word "Air" is disclaimed.
For Household Deodorant.
Claims use since June 1, 1949.

Ser. No. 590,923. Advance Solvents & Chemical Corporation, New York, N. Y. Filed Jan. 16, 1950.

VISTAC

For Synthetic Hydrocarbon Polymers, Particularly Butene Polymers, Especially for Use as a Vehicle for Caulking Compounds.
Claims use since in October 1938.

Ser. No. 595,819. Frederic D. Barton, doing business under the fictitious name and style of Bar's Products, San Francisco, Calif. Filed Apr. 17, 1950.

BAR'S LEAKS

The word "Leaks" is disclaimed.
For Radiator Leak Sealer, Rust Preventative, and a Rust Inhibitor for Water Cooling Systems.
Claims use since Mar. 26, 1947.

Ser. No. 598,966. Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Filed June 12, 1950.

GELVATEX

Applicant claims ownership of United States Registrations Nos. 290,741 and 327,391.
For Aqueous Emulsions of Polyvinyl Acetate.
Claims use since May 31, 1947; and since Dec. 5, 1947, in commerce between Canada and the United States.

Ser. No. 599,068. Mayborn Products Limited, London, England. Filed June 13, 1950.

DYGON

Applicant claims ownership of United States Registration No. 507,248.
For Bleaching and Dye-Removing Substances.
Claims use since May 1948; and use in commerce between foreign nations and the United States since March 1950.

Ser. No. 605,019. Falk & Company, Pittsburgh, Pa., assignor to Cargill, Incorporated, a corporation of Delaware. Filed Oct. 17, 1950.

FALKYD

For Alkyd Resins.
Claims use since on or about September 1937.

Ser. No. 607,494. The Frederick Post Company, Chicago, Ill. Filed Dec. 9, 1950. (Sec. 2f.)

POST

Applicant claims ownership of Registration No. 389,967.
For Developers, Transparentizing Fluids, and Fixative Compositions.
Claims use since Jan. 10, 1936, as to the mark shown; and since 1903 as to the mark "Post's."

Ser. No. 608,600. Food Machinery and Chemical Corporation, San Jose, Calif. Filed Jan. 10, 1951.

NIAGARAMITE

For Parasiticides.
Claims use since July 31, 1950.

Ser. No. 617,056. Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Filed July 27, 1951.

PX

For Plasticizers.
Claims use since Mar. 14, 1950.

Ser. No. 619,776. Trojan Powder Company, Allentown, Pa. Filed Oct. 9, 1951.

The words "Estab. 1905 Chemicals" are disclaimed.
Applicant claims ownership of Registration No. 541,423.
For Pentaerythritol Technical, Pentaerythritol Pure, Pentaerythritol Nitration Grade, Dipentaerythritol, Tripentaerythritol, Aminoguanidine Bicarbonate, Trimethylolpropane, Trimethylolethane, Calcium Formate, Pentaerythritol Tetranitrate, and a Resin Forming Composition.
Claims use since Dec. 8, 1947.

Ser. No. 619,986. The Carter-Waters Corporation, Kansas City, Mo. Filed Oct. 15, 1951.

AD-AIRE

The word "Aire" is disclaimed.
For Liquid Air Entraining Agent for Concrete.
Claims use since June 14, 1951.

Ser. No. 620,703. Water Chemists, Inc., Los Angeles, Calif. Filed Oct. 30, 1951.

PHOSGLASS

For Chemical Compounds Which Are Added to Water To Prevent Formation of Scale.
Claims use since Feb. 13, 1945.

Ser. No. 620,881. Electro-Chemical Products Corporation, East Orange, N. J. Filed Nov. 5, 1951.

STATI-CLEAN

The word "Clean" is disclaimed. Applicant claims ownership of Registration No. 346,348.
For Preparation for Removing Dust-Attracting Static Electricity From Records.
Claims use since Sept. 23, 1949.

Ser. No. 622,690. The Atlantic Refining Company, Philadelphia, Pa. Filed Dec. 19, 1951.

ATLANTIC

Applicant claims ownership of Registration No. 218,647.
For Plastic Resin for General Use in the Industrial Arts.
Claims use since July 27, 1951.

Ser. No. 624,433. U. S. Sanitary Specialties Corporation, Chicago, Ill. Filed Feb. 1, 1952.

USAPON X2

For Polymerizing Agent in Paste Form for Use in Tanning Leather.
Claims use since Oct. 23, 1950.

Ser. No. 624,746. The Kilgore Seed Company, Plant City, Fla. Filed Feb. 9, 1952.

KILCHLOR DUST

The word "Dust" is disclaimed.
For Insecticides.
Claims use since November 1947.

Ser. No. 624,904. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Feb. 13, 1952.

SIMPLEX

Applicant claims ownership of Registration No. 423,760.
For Inedible Starch for Industrial Purposes.
Claims use since Mar. 19, 1938.

Ser. No. 624,906. Tennessee Valley Chemical Corp., White Plains, N. Y. Filed Feb. 13, 1952.

TEVVY

For Household Deodorant.
Claims use since May 15, 1950.

Ser. No. 624,965. Monsanto Chemical Company, St. Louis, Mo. Filed Feb. 14, 1952. (Sec. 2f.)

NOSHOCK

For Chemical Grounding Agents for Treating Rugs, Textiles, and Other Fibrous Materials.
Claims use since Oct. 4, 1946.

Ser. No. 625,004. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Feb. 15, 1952.

TEROGEN

For Stabilized Diazo Color Base Used in Printing Textile Fabrics.
Claims use since Oct. 15, 1951.

Ser. No. 626,073. Chemical Corporation of Colorado, Denver, Colo., assignor to Chemical Corporation of Texas, Denver, Colo., a corporation of Colorado. Filed Mar. 7, 1952.

KIK

For Insecticide.
Claims use since May 5, 1950.

Ser. No. 629,164. Hooker Electrochemical Company, Niagara Falls, N. Y. Filed May 3, 1952.

C-56

For Hexachlorocyclopentadiene.
Claims use since January 1949.

Ser. No. 629,474. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Filed May 10, 1952.

ORTHO W-41

Applicant claims ownership of Registrations Nos. 121,042, 423,264, and 303,282.
For Corrosion Inhibitor.
Claims use since Mar. 23, 1951.

Ser. No. 629,737. Koppers Company, Inc., Pittsburgh, Pa. Filed May 15, 1952.

SNOW FLAKE

For Insecticides.
Claims use since Apr. 29, 1952.

CLASS 7

CORDAGE

Ser. No. 624,527. Chicago Printed String Company, Chicago, Ill. Filed Feb. 5, 1952. (Sec. 2f—Additional evidence.)

Saturtone

Applicant claims ownership of Registration No. 530,421.
For Ribbonlike Tying Material Made of Rayon.
Claims use since Sept. 15, 1946.

Ser. No. 624,834. Independent Cordage Co., Inc., New York, N. Y. Filed Feb. 12, 1952.

CAPITOL

For Rope, Cord, and Twine of Fibre, Manila, Sisal, Cotton, Linen, Jute, Hemp, and Synthetic Fibres.
Claims use since May 15, 1941.

Ser. No. 627,174. Columbian Rope Company, Auburn, N. Y. Filed Mar. 28, 1952.

HURON

For Twine.
Claims use since May 1, 1931.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 586,817. Presto Lighters Limited, Montreal, Quebec, Canada. Filed Oct. 25, 1949.

PRESTO

Applicant claims ownership of Canadian Registration No. N. S. 25,800, dated Apr. 1, 1947.
For Cigar and Cigarette Pyrophoric Lighters.

Ser. No. 622,758. Sasieni Ltd., London, England. Filed Dec. 21, 1951. (Sec. 2f.)

Sasieni

For Smokers' Pipes, Cigarette and Cigar Holders.
Claims use since 1922 or before; and first used in commerce among the several States and in commerce between Great Britain and the United States on or about April 1922.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 625,809. Kiwi Coders Corp., Chicago, Ill. Filed Mar. 1, 1952.

KIWI

For Printing Inks.
Claims use since Nov. 13, 1948.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 545,576. Carr, Adams & Collier Company, Dubuque, Iowa. Filed Dec. 27, 1947. (Sec. 2f.)

BILT WELL

Applicant claims ownership of Registrations Nos. 388,175, 514,774, and 516,207.
For Wood Trim and Wood Moulding; Fabricated Woodwork—Namely, Sashes; Entrance Doors; Room Doors; Garage Doors; Shutters; Transoms; Window and Door Screens; and Louvers; and Sets of Pre-Cut Millwork for the Construction of the Following Permanent Type Installations: Fireplace Mantels; Stairs and Stairways; Window, Door, and Louver Frames; Exterior and Interior Doorway Entrances; Kitchen, Telephone, Medicine, Corner, Office, China, Linen, and Ironing Board Cabinets; and Breakfast Nooks.
Claims use since in May 1917.

Ser. No. 557,258. The Celotex Corporation, Chicago, Ill. Filed May 18, 1948.

HONEYMOON

For Millwork and Cement-Asbestos-Surfaced Fiber Insulation Board Panels To Be Used in the Construction of Houses.
Claims use since Feb. 22, 1947.

Ser. No. 576,941. Ventaire Corporation, Tulsa, Okla. Filed Apr. 11, 1949.

Ventaire

For Louvre Type Metal Awnings for Outdoor Use Over Windows and Doors.
Claims use since on or about February 1947.

Ser. No. 580,177. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed June 9, 1949.

ATLASTIC

For Acid and Alkali Proof Bituminous Cement Having Utility for Caulking and Coating.
Claims use since Nov. 21, 1934.

Ser. No. 593,122. F. L. Jordan Sash & Door Co., Los Angeles, Calif. Filed Feb. 27, 1950.



The word "Jordan" is disclaimed. The drawing is lined for the color green.
For Windows.
Claims use since on or about Jan. 13, 1950.

Ser. No. 596,248. Tropical & Western Lumber Company, Los Angeles, Calif. Filed Apr. 24, 1950.

AMADON



The word "Genuine" is disclaimed.
For Lumber.
Claims use since Mar. 28, 1950.

Ser. No. 607,419. Carnegie-Illinois Steel Corporation, Pittsburgh, Pa., now by merger and change of name United States Steel Company, a corporation of New Jersey. Filed Dec. 8, 1950.

DI-LOK

The syllable "Lok" is disclaimed.
For Concrete Reinforcing Bars.
Claims use since Oct. 11, 1950.

Ser. No. 608,381. Rock Island Millwork Company, Rock Island, Ill. Filed Jan. 4, 1951.

RIMCO

For Building Woodwork Made Either of Natural Wood, or of Synthetic Lumber Formed of Resin-Bound Sawdust, or of Both—Namely, Flush Doors, Panelled Doors, Combination Screen and Storm Doors, Door Panelling, Built-in Kitchen Cabinet Wall Units, Windows, Window Sash, Frames for Doors, Windows, and Screens, and Hardwood Dowels.
Claims use since Nov. 30, 1950.

Ser. No. 609,061. The Texcrete Company, Fort Worth, Tex. Filed Jan. 20, 1951.

TexCrete

For Concrete Building Blocks.
Claims use since Jan. 29, 1946.

Ser. No. 609,455. United States Gypsum Company, Chicago, Ill. Filed Jan. 31, 1951.

A-II

For Calcined Plaster for Industrial Tooling.
Claims use since Feb. 10, 1933.

Ser. No. 609,456. United States Gypsum Company, Chicago, Ill. Filed Jan. 31, 1951.

B-II

For Casting Plaster.
Claims use since Nov. 2, 1944.

Ser. No. 611,513. Flat Metal Manufacturing Company, Franklin Park, Ill. Filed Mar. 19, 1951.

Zephyr

For Shower Doors.
Claims use since Jan. 17, 1951, on the mark as shown; and since Feb. 10, 1946, as to the word "Zephyr."

Ser. No. 612,348. Plibrico Jointless Firebrick Company, Chicago, Ill. Filed Apr. 6, 1951.

PLIOSIL

For Thermosetting Plastic Refractory Material Which Is Used (for Example, but Not Limited Thereto) for Lining Foundry Ladles, Spouts and Runners, and Metallurgical Furnaces, and for Patching Cupolas.
Claims use since Nov. 10, 1950.

Ser. No. 613,452. Hough Shade Corporation, Janesville, Wis. Filed May 3, 1951.

RA-TOX

Applicant claims ownership of Registrations Nos. 162,086, 162,271, and others.
For Flexible Doors.
Claims use since Jan. 16, 1951.

Ser. No. 615,172. The Felters Company, Boston, Mass. Filed June 14, 1951.

KOZY

Applicant claims ownership of Registration No. 320,418.
For Weather Strip Felt.
Claims use since Aug. 3, 1933.

Ser. No. 616,271. Atlantic Steel Company, Atlanta, Ga. Filed July 10, 1951.

DIXISTEEL

Applicant claims ownership of Registration No. 546,915.
For Lintels, Metal Lath, Metal Ridge Rolls, Arch Bars or Chimney Iron for Supporting Bricks Across the Top of Fireplaces, Galvanized Roofing, Metal Reinforcing Bars for Construction Purposes, and Constructural Angles.
Claims use since Nov. 1, 1950.

Ser. No. 620,612. Mastic Tile Corporation, Newburgh, N. Y., and Long Beach, Calif. Filed Oct. 29, 1951.

CONFETTI

For Asphalt Tile Floor Covering.
Claims use since Sept. 11, 1951.

Ser. No. 621,013. Insular Lumber Company, Philadelphia, Pa. Filed Nov. 8, 1951.

ILCO

For Lumber and Lumber Products—Namely, Sidings, Panelings, Mouldings, Partitions, Ceilings, and Floorings.
Claims use since 1918.

Ser. No. 624,484. Forest Fiber Products Company, Forest Grove, Oreg. Filed Feb. 4, 1952.

THRIFTWOOD

For Wallboard.
Claims use since Nov. 20, 1951.

Ser. No. 624,928. Capitol Flooring Co., Inc., Jersey City, N. J. Filed Feb. 14, 1952.

CAPALOC

For Precast Non-Slip Terrazzo Stair Treads.
Claims use since Feb. 5, 1952.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 550,784. Conoflow Corporation, Philadelphia, Pa. Filed Feb. 28, 1948.

Cono-Controls

The word "Controls" is disclaimed.
For Gas and Water Pressure Regulators and Control Valves for Gas, Air, Liquids, Sludge, and Any Other Compositions and Compounds Which Flow Through Pipes.
Claims use since on or about Sept. 2, 1946.

Ser. No. 581,482. Hubbard and Company, Pittsburgh, Pa. Filed July 2, 1949. (Sec. 2f with respect to the word "Hubbard.")



For Apparatus, Devices, and Structural Parts Generally Designated as "Pole Line Hardware"—Namely, Insulator Pins, Insulator Pin Adaptors, Guy Wire Anchors, Guy Wire Anchor Rods, Cross Arm Braces, Insulator Supporting Brackets, Guy Wire Protectors, Insulator Hangers, Insulator-Supporting House Brackets, Insulator-Supporting Mast Arms, Pole Bands, Pole Top Brackets for Insulators, Pole Top Insulator Pins, Street Lighting Brackets, and Wire Supporting Brackets.
Claims use since January 1924.

Ser. No. 608,369. National Cylinder Gas Company, Chicago, Ill. Filed Jan. 4, 1951.

Carryall

For Rack Consisting Principally of a Metal Framework and Intended To Secure for Manual Transportation the Various Articles That May Comprise a Welding, Brazing, or Soldering Outfit—Namely, Compressed Gas Cylinders, Torches, Hoses, and Accessory Equipment.
Claims use since August 1950.

Ser. No. 615,628. Corona Oil Specialties & Service Company, La Canada, Calif. Filed June 25, 1951.

COSASCO

For Fluid Handling Fittings—Namely, Nipples, Elbows, Unions, Seat Protectors, and Nipple Lubricators.
Claims use since Mar. 1, 1950.

Ser. No. 616,244. Rain Bird Sprinkler Mfg. Corp., Glendora, Calif. Filed July 9, 1951.

RAINBIRD

For Lawn and Yard Sprinklers.
Claims use since Nov. 1, 1935.

Ser. No. 618,726. Bi-Win Co., Chicago, Ill. Filed Sept. 13, 1951.

BI-WIN
NU-POR

The word "Por" is disclaimed.
For Metal Pouring Spouts for Paper and Cardboard Boxes.
Claims use since June 1951.

Ser. No. 619,640. Metal Industries, Incorporated, Youngstown, Ohio. Filed Oct. 5, 1951.



The word "Lock" and the representation of the goods are disclaimed.
For Fasteners for Joining Sections of Wood to One Another.
Claims use since Mar. 1, 1951.

Ser. No. 622,297. The Deutsch Company, Los Angeles, Calif. Filed Dec. 10, 1951.



The lining on the drawing is for shading purposes only.

For Metal Fluid Supply Fittings—Namely, Elbows, T's, Unions, Flow Regulating Valves, Sleeves, and Special Metal Tubing and Pipe Connectors.

Claims use since Aug. 1, 1943.

Ser. No. 624,219. S. Bernstein, Inc., Newark, N. J. Filed Jan. 29, 1952.

Zorach

For Combination Kitchen Sinks and Cabinets Sold as a Unit.

Claims use since Jan. 7, 1952.

Ser. No. 624,398. Coyne & Delany Co., Brooklyn, N. Y. Filed Feb. 1, 1952.

FLUSHBOY

For Flush Valves and Parts Thereof Consisting of Diaphragms, Tilting Valves, Washers, Handle Actuators, and Handle Sealing Units.

Claims use since 1927.

Ser. No. 624,399. Coyne & Delany Co., Brooklyn, N. Y. Filed Feb. 1, 1952.

PRESTO

For Flush Valves and Parts Thereof Consisting of Diaphragms, Tilting Valves, Washers, Handle Actuators, and Handle Sealing Units.

Claims use since 1931.

Ser. No. 625,510. The Yorkshire Copper Works Limited, Stourton, Leeds, England. Filed Feb. 25, 1952.

YORCORON

Applicant claims ownership of British Registrations Nos. 565,001, 574,282, and 579,864, dated Dec. 10, 1935, Jan. 8, 1937, and Sept. 13, 1937, respectively.

For Metal Tubes—Namely, Tubes Made of Copper or Copper Alloy.

Ser. No. 625,511. The Yorkshire Copper Works Limited, Stourton, Leeds, England. Filed Feb. 25, 1952.

YORCUNIC

Applicant claims ownership of British Registrations Nos. 562,919, 696,913, 696,914, and 696,915, all dated Mar. 20, 1951.

For Metal Tubes—Namely, Tubes Made of Copper or Copper Alloy.

Ser. No. 625,512. The Yorkshire Copper Works Limited, Stourton, Leeds, England. Filed Feb. 25, 1952.

YORCUNIFE

Applicant claims ownership of British Registrations Nos. 677,960 and 677,961, dated Mar. 18, 1949.

For Metal Tubes—Namely, Tubes Made of Copper or Copper Alloy.

Ser. No. 627,265. Kilbourn Engineering Company, Inc., Milwaukee, Wis. Filed Mar. 29, 1952. (Sec. 2f.)

KILBOURN

For Finished Machined Metal Parts—Namely, Studs, Bolts, Cap Screws, and Threaded Nuts.

Claims use since Feb. 22, 1937.

Ser. No. 627,432. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

DUCKY DUBBLE

For Handle Sticks for Confectionery Products Sold Separately From Said Products.

Claims use since Feb. 21, 1952.

Ser. No. 627,434. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

KREAMI-FROST

For Handle Sticks for Confectionery Products Sold Separately From Said Products.

Claims use since Mar. 12, 1952.

Ser. No. 627,436. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

FUDGI-FROST

Applicant claims ownership of Registration No. 357,323.

For Handle Sticks for Confectionery Products Sold Separately From Said Products.

Claims use since Feb. 18, 1952.

Ser. No. 627,438. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

DUBBLE DELITE

For Handle Sticks for Confectionery Products Sold Separately From Said Products.

Claims use since Mar. 3, 1952.

Ser. No. 627,440. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

ICY-FROST

Applicant claims ownership of Registration No. 368,410.

For Handle Sticks for Confectionery Products Sold Separately From Said Products.

Claims use since Feb. 26, 1952.

Ser. No. 627,441. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

I.C.N.

For Handle Sticks for Confectionery Products Sold Separately From Said Products.

Claims use since Feb. 22, 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 609,720. Fry's Metal Foundries, Limited, London, England. Filed Feb. 7, 1951.

FRYOLUX

For Mixtures of Fluxes and Solders for Soldering, Tinning, and Brazing.

Claims use since Mar. 30, 1943 in Great Britain; and first used in commerce between Great Britain and the United States on Sept. 14, 1948.

Ser. No. 611,895. General Steel Warehouse Co., Inc., Chicago, Ill. Filed Mar. 28, 1951.

GENSCO

Applicant claims ownership of Registration No. 371,713.

For Cold Finished Bars, Aircraft Strip Steel, Cold Rolled Strip Steel, Steel Balls, Cold Rolled Shim Steel, Cold Rolled Sheet Steel, Round Edge Flat Wire, Feeler Gauge Steel, Tempered and Annealed Spring Steel, Round Wire and Wire in All Shapes, and Drill Rods.

Claims use since as early as July 1938.

Ser. No. 612,569. Union Manufacturing Company, New Britain, Conn. Filed Apr. 12, 1951.

UNALOY

For Cast Iron and Semi-Steel Castings for Die Sets and Other Products Made of Said Materials.

Claims use since Mar. 15, 1950.

Ser. No. 613,170. International Harvester Company, Chicago, Ill. Filed Apr. 26, 1951.

HARVESOL

For Enamel Solder.

Claims use since Aug. 2, 1950.

Ser. No. 621,362. Hayes Track Appliance Company, Richmond, Ind. Filed Nov. 17, 1951. (Sec. 2f.)

HAYES CUSHION WHEEL STOP

The words "Wheel Stop" are disclaimed. Applicant claims ownership of Registrations Nos. 507,346, 522,602, and 532,266.

For Track Appliances—Namely, Wheel Stops.

Claims use since 1928 as to the word "Hayes"; and since Sept. 18, 1946, as to the mark shown.

Ser. No. 621,594. Weiger Weed & Company, Detroit, Mich. Filed Nov. 23, 1951.

KAPTRODE

For Metal Welding Electrodes and Welding Electrode Adapter Shanks.

Claims use since Aug. 28, 1951.

CLASS 15

OILS AND GREASES

Ser. No. 597,348. Muench-Kreuzer Candle Co., Inc., Syracuse, N. Y. Filed May 12, 1950. (Sec. 2f.)

Wedge Grip

For Candles.

Claims use since February 1941.

Ser. No. 599,214. The American Lubricants Co., Dayton, Ohio. Filed June 16, 1950.



The words "The American Lubricants Company" are disclaimed.

For Lubricating Oils and Greases, and Upper Cylinder Lubricants.

Claims use since January 1948.

Ser. No. 608,446. Arabian American Oil Company, New York, N. Y. Filed Jan. 6, 1951.



For Petroleum as Crude Oil and as Topped Crude, and for Kerosene, Diesel Oil, Gasoline, Fuel Oil, Lubricant Oil, Lubricating Greases, and Petroleum Waxes.

Claims use since 1945.

Ser. No. 620,931. Shell Chemical Corporation, New York, N. Y. Filed Nov. 6, 1951.

IONAD

Applicant claims ownership of Registration No. 418,339.
For Oil Additive That Inhibits the Formation of Tar Deposits in Petroleum Products and Prevents the Clogging of Screens Which Filter Such Petroleum Products.
Claims use since Aug. 20, 1951.

Ser. No. 625,265. Freedom-Valvoline Oil Company, Freedom, Pa. Filed Feb. 20, 1952.

T.R.A.

For Transmission Oils, Gear Lubricants, and Transmission Grease.
Claims use since Oct. 4, 1951.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 576,695. Great Lakes Steel Corporation, Ecorse, Detroit, Mich. Filed Apr. 6, 1949.

STRAM STEEL Quon-Kote

The suffixes "Steel" and "Kote" are disclaimed.
For Ready-Mixed Paint for Exterior Surfaces.
Claims use since on or about Feb. 25, 1949.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 573,049. Neo Dermic Laboratories, River Forest and Chicago, Ill. Filed Jan. 29, 1949.

Derm-at-Ease

The word "Derm" is disclaimed.
For Medicinal Preparation in Fluid Form for the Treatment of Dandruff and Itching Scalp.
Claims use since Jan. 15, 1949.

Ser. No. 575,013. Parke, Davis & Company, Detroit, Mich. Filed Mar. 7, 1949.

CALADRYL

For Skin Lotion for the Relief of Itch Caused by Insect Bites, Eczema, Sunburn, and Poison Ivy.
Claims use since Jan. 20, 1949.

Ser. No. 585,806. National Synthetics, Inc., New York, N. Y. Filed Oct. 5, 1949.

IMPREGNOL

For Pharmaceutical Preparation Used for Topical Application Upon Teeth.
Claims use since July 2, 1947.

Ser. No. 600,455. Special Milk Products, Inc., Los Angeles, Calif., now by change of name Jackson-Mitchell Pharmaceuticals, Inc. Filed July 10, 1950.

SolDex

For Vitamin B_{12}.
Claims use since June 15, 1950.

Ser. No. 601,978. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware. Filed Aug. 9, 1950.

IROPHORE

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Flavoring Material, or an Ingredient in Medicines and Pharmaceutical Preparations.
Claims use since Mar. 1, 1950.

Ser. No. 608,322. The Murine Company, Inc., Chicago, Ill. Filed Jan. 3, 1951.



Applicant claims ownership of Registrations Nos. 229,492, 240,437, and 501,781.
For Preparations for the Hygienic Care of the Eyes.
Claims use since February 1924.

Ser. No. 608,818. Foam-X Co., Santa Barbara, Calif. Filed Jan. 16, 1951.

FOAM-X

The word "Foam" is disclaimed.
For Medicinal Preparation for Athlete's Foot; Toe Itch, Scalp and Eczema, Ringworm, Poison Oak, Skin Chafing, and Cold Sores.
Claims use since October 1945.

Ser. No. 613,333. Luyties Pharmacal Company, St. Louis, Mo. Filed Apr. 30, 1951. (Sec. 2f.)

LUYTIES

For Medicines and Pharmaceutical Preparations—Namely, Cough Tablets, Headache Tablets, Laxative Tablets, Liver Tablets, Cold Tablets, Throat Tablets, Tablets for Aiding in Reducing Muscular Aches and Pains, Rheumatism Tablets and Ointments, Fever Tablets, Skin Tablets and Ointments, Influenza Tablets, Neuralgia Tablets, Obesity Tablets, Tonic Tablets, Eye Drops, Vitamin Tablets and Preparations, Ointments and Salves, Suppositories, Nerve Tonics, Uterine Tonics, Iron Tonics, Heart Tonics, Vitamin Tonics, Homeopathic Remedies, and Antihistamine Tablets.
Claims use since 1853.

Ser. No. 615,070. Werner Janssen, Bonn, Germany. Filed June 12, 1951.

HAMOS

For Medicinal Drops and Pile Ointment for the Treatment of Piles, Varicose Veins, Phlebitis, and Other Venous Ailments, and Laxative Pills, a Laxative for Pile Sufferers.
Claims use since Dec. 21, 1950; and use in commerce between foreign nations and the United States since Dec. 21, 1950.

Ser. No. 620,527. Schering Corporation, Bloomfield, N. J. Filed Oct. 26, 1951.

CIMOTA

For Radioactive Medicinal Preparation To Be Employed in the Detection and Alleviation of Malignancies.
Claims use since July 25, 1951.

Ser. No. 623,358. Louis W. Marion, doing business as Dunes Laboratory Products Company, Gary, Ind. Filed Jan. 9, 1952.

KAR-KAPS

The word "Kaps" is disclaimed.
For Sedative for Animals.
Claims use since Oct. 18, 1951.

Ser. No. 624,996. Breyner's Arthritis & Rheumatism Research Laboratories, Inc., New York, N. Y. Filed Feb. 15, 1952.

BREYSAL

For Compounds for Treatment of Rheumatic Pains and Arthritis.
Claims use since Feb. 8, 1952.

Ser. No. 625,280. Kordol Corporation of America, New York, N. Y. Filed Feb. 20, 1952.

KORDOLIN

For Tablets for the Relief of Pains From Arthritis, Rheumatism, Sciatica, Muscular Aches, Bursitis, Neuritis, and Neuralgia.
Claims use since Sept. 15, 1951.

Ser. No. 625,347. Essex Pharmacal Co., Lynn, Mass. Filed Feb. 21, 1952.

PRO-HYGIN

For Vaginal Douche Powder.
Claims use since Feb. 6, 1952.

Ser. No. 625,383. Abbott Laboratories, North Chicago, Ill. Filed Feb. 23, 1952.

ALESIUM

For Antacid and Absorbent.
Claims use since Jan. 23, 1952.

Ser. No. 625,706. Alol Products, Inc., Carmel, N. Y. Filed Feb. 29, 1952.

ALOL

For Preparation for Treatment of Poison Ivy.
Claims use since May 8, 1951.

Ser. No. 625,746. Mallinckrodt Chemical Works, St. Louis, Mo. Filed Feb. 29, 1952.

Themisone

For Anticonvulsant.
Claims use since Nov. 27, 1951.

Ser. No. 625,760. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Feb. 29, 1952.

CREMOMYCIN

Applicant claims ownership of Registrations Nos. 428,175 and 531,534.
For Antibacterial Preparation.
Claims use since Feb. 21, 1952.

Ser. No. 625,761. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Feb. 29, 1952.

CREMOPEN

Applicant claims ownership of Registration No. 526,139.
For Penicillin Preparation.
Claims use since Feb. 21, 1952.

Ser. No. 625,762. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Feb 29, 1952.

LIPOLEV

For Adjunctive Dietary Supplement.
Claims use since Dec. 18, 1951.

Ser. No. 625,763. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Feb. 29, 1952.

REDICOSE

For Vitamin Preparation.
Claims use since Dec. 18, 1951.

Ser. No. 625,764. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Feb. 29, 1952.

REDIGRAM

For Vitamin Preparation.
Claims use since Dec. 18, 1951.

Ser. No. 625,765. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Feb. 29, 1952.

REDILEV

For Vitamin Preparation.
Claims use since Dec. 18, 1951.

Ser. No. 625,766. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Feb. 29, 1952.

REDIZETS

For Vitamin Preparation.
Claims use since Dec. 18, 1951.

Ser. No. 625,767. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Feb. 29, 1952.

TRINAVAC

For Biological Antigenic Preparation for Use as an Immunologic Agent.
Claims use since Jan. 4, 1952.

Ser. No. 625,909. Harry S. Kinney, doing business as Kinney & Company, Columbus, Ind. Filed Mar. 4, 1952.

FORTIHEMIN

For Vitamin-Iron Pharmaceutical Preparation.
Claims use since Nov. 12, 1951.

Ser. No. 627,234. Winthrop-Stearns Inc., New York, N. Y. Filed Mar. 28, 1952.

CILFOMIDE

For Antibiotic and Chemo-Therapeutic Preparations for the Treatment of Infectious Diseases.
Claims use since Mar. 3, 1952.

Ser. No. 627,527. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 3, 1952.

ADESEDYL

For Pharmaceutical Products for Use in Minor Emotional Disturbances, Particularly in the Management of Depressive and Anxiety States and in the Treatment of Obesity.
Claims use since Sept. 27, 1951.

Ser. No. 627,768. Organon Inc., Orange, N. J. Filed Apr. 8, 1952.

Tela

For Medicinal Hormone Preparation.
Claims use since July 14, 1950.

Ser. No. 632,192. Ames Company, Inc., Elkhart, Ind. Filed July 18, 1952.

APROMAL

For Tablets for Analgesic, Antipyretic, and Sedative Purposes.
Claims use since July 16, 1952.

CLASS 19
VEHICLES

Ser. No. 522,823. Cherry-Burrell Corporation, Chicago, Ill. Original filed, act of 1905, May 22, 1947; amended to application under act of 1946, Principal Register, Aug. 3, 1951. (Sec. 2f.)

DARI-DOLLY

The word "Dolly" is disclaimed.
For Hand Operated Dollies for Cases and the Like.
Claims use since Aug. 1, 1943.

Ser. No. 529,676. Motive Equipment Manufacturers, Inc., Chicago, Ill. Filed July 26, 1947.

Pilot

For Automobile Hydraulic Brake Systems and Replaceable Parts for the Master Cylinder and Wheel Cylinder Respectively, Said Replaceable Parts Being in the Form of a Kit.
Claims use since July 1937.

Ser. No. 569,642. Roll-Rite Corporation, Oakland, Calif. Filed Nov. 30, 1948. (Sec. 2f.)

ROLL RITE

For Warehouse Trucks, Hand Trucks, and Wheels and Casters Therefor.
Claims use since June 1940.

Ser. No. 581,072. Liggett Spring and Axle Co., Monongahela, Pa. Filed June 25, 1949.

WEAREVER

For Leaf Springs, Together With Component Parts Such as Clips, Bushings, Shackles, Spring Hangers, Equalizer Bars, for Use as Replacement Parts on All Makes of Automobiles, on House Trailers, Trailer Trucks, Commercial Truck Trailers, and Other Types of Trailers for General Automotive Use, Trailer Axles, Trailer Axles Partially Assembled With Brake Flanges and Spring Seats Thereon, Brake Flanges, Spring Seats, Couplers and the Like for Attaching House Trailers to Other Vehicles, Utility Trailers, Commercial Truck Trailers and Other Special Trailers, Both Assembled and Knocked Down, for Automotive Use.
Claims use since Mar. 24, 1949.

Ser. No. 581,661. Gar Wood Industries, Inc., Wayne, Mich. Filed July 8, 1949. (Sec. 2f—Additional evidence.)

LOAD-PACKER

Applicant claims ownership of Registration No. 516,093.
For Bodies for Garbage and Refuse Hauling Trucks.
Claims use since Apr. 19, 1940.

Ser. No. 584,559. Triumph Engineering Company Limited, Coventry and Allesley, Coventry, England. Filed Sept. 7, 1949.

Thunderbird

Priority is claimed under Sec. 44(d). British application filed July 20, 1949, Registration No. 681,179, dated July 20, 1949.
For Motor Cycles and Structural Parts Thereof.

Ser. No. 586,103. Officine Elettromeccaniche Puglioli & C., Ferrara, Italy. Filed Oct. 11, 1949.

RADIUS

The lining is for shading only. Applicant claims ownership of Italian Registration No. 38,232, dated Mar. 27, 1928.
For Motorcycles and Lamp Brackets.

Ser. No. 592,297. Auto Ventshade Company, Atlanta, Ga. Filed Feb. 11, 1950. (Sec. 2f—Additional evidence.)

Ventshades

For Shades for Doors and Windows of Automotive Vehicles.
Claims use since 1948.

Ser. No. 594,929. Triumph Cycle Company Limited, London, England. Filed Mar. 30, 1950.

TRIUMPH CYCLE Co LTD COVENTRY

Applicant claims ownership of British Registration No. 685,244, dated Jan. 4, 1950; and United States Registration No. 91,047.
For Pedal-Operated Bicycles and Tricycles Both for Adult Use Exclusive of Motor Operated Cycles.

Ser. No. 595,122. Comrade Cycle Company Limited, Darlaston, Staffordshire, England. Filed Apr. 3, 1950.

CLARION

Applicant claims ownership of British Registration No. 676,909, dated Feb. 10, 1949.
For Bicycles, Cycle Frames, Handle Bars, Wheels.

Ser. No. 595,123. Comrade Cycle Company Limited, Darlaston, Staffordshire, England. Filed Apr. 3, 1950.

REX

Applicant claims ownership of British Registration No. B671,793, dated Aug. 11, 1948.
For Bicycles, Cycle Frames, Handle Bars, Wheels.

Ser. No. 598,600. Fulton C. Robison, doing business as Micro Engineering Co., Seattle, Wash. Filed June 5, 1950.

Micro-Midget

The word "Midget" is disclaimed.
For Miniature Racing Automobile and Parts Thereof.
Claims use since Dec. 15, 1949.

Ser. No. 603,032. The Abel Corporation, Columbus, Ohio. Filed Sept. 1, 1950.

Satin-gleam

The word "Satin" is disclaimed.
For Automobile Seat Covers.
Claims use since Jan. 1, 1950.

Ser. No. 604,367. Hudson Motor Car Company, Detroit, Mich. Filed Oct. 3, 1950.



The numerals "145" are disclaimed. Applicant claims ownership of Registrations Nos. 111,825, 274,283, and 283,898.
For Automobile Bodies.
Claims use since Sept. 21, 1950.

Ser. No. 604,595. Pressed Steel Car Company, Inc., Chicago, Ill. Filed Oct. 7, 1950.



For Box Cars and Refrigeration Cars.
Claims use since Aug. 26, 1950.

Ser. No. 605,273. Joseph J. Szakacs, doing business as Custom Hydrocraft, San Diego, Calif. Filed Oct. 21, 1950.

Hydroplay

The mark consists of the word "Hydroplay" written in script.
For Sailing and Outboard Motor Boats and Sails.
Claims use since June 29, 1950.

Ser. No. 605,942. Brumbaugh Body Company, Altoona, Pa. Filed Nov. 6, 1950.

BRUCO

For Manufactured Truck Bodies, Truck Cabs, "Jeep Tops," Unequipped Fire Truck Bodies, Trailer Bodies, and Moving Van Vehicle Bodies.
Claims use since on or about Dec. 1, 1946.

Ser. No. 610,136. "Neue Amag" Automobil- & Motoren A. G., Zurich, Switzerland. Filed Feb. 15, 1951.

ami

Applicant claims ownership of Swiss Registration No. 135,421, dated Oct. 23, 1950.
For Motorcycles.

Ser. No. 611,404. Chrysler Corporation, Highland Park, Mich. Filed Mar. 16, 1951. (Sec. 2f.)

DODGE

Applicant claims ownership of Registrations Nos. 103,779 and 364,669.
For Automobiles and Their Structural Parts.
Claims use since Nov. 12, 1914.

Ser. No. 613,060. The Euclid Road Machinery Co., Euclid, Ohio. Filed Apr. 24, 1951.

"Euc"

Applicant claims ownership of Registrations Nos. 282,468, 283,610, and others.
For Motor Driven and Trailer Materials-Handling Equipment—Namely, Trucks, Dumping Tractor Trucks, and Motorized Dump Trucks.
Claims use since Feb. 26, 1951.

Ser. No. 614,221. Spiegel, Inc., Chicago, Ill. Filed May 22, 1951.

Brooklure

Applicant claims ownership of Registrations Nos. 418,968, 535,049, and others.
For Row Boats.
Claims use since in or about December 1949.

Ser. No. 614,320. Trans-Arabian Pipe Line Company, New York, N. Y. Filed May 24, 1951.

Tapline

Applicant claims ownership of Lebanese Republic Registration No. 1,103, dated Dec. 12, 1947.
For Delivery Trucks, Oil Trucks, Buses, and Trailers.

Ser. No. 615,366. The Cainevar Company, Los Angeles, Calif. Filed June 19, 1951.

WEATHER WING

The word "Wing" is disclaimed.
For Deflecting Shields for Attachment to a Body Portion of an Automobile, Adjacent a Window or Opening.
Claims use since Sept. 23, 1948.

Ser. No. 615,396. The New York Air Brake Company, Watertown and New York, N. Y. Filed June 19, 1951.



The mark comprises the letters "N" and "Y" written as a conventionalized monogram. Applicant claims ownership of Registrations Nos. 86,543 and 86,727.
For Air Brakes, Hydraulic Brakes, and Electro-Pneumatic Brakes Each for Use on Vehicles.
Claims use since Jan. 15, 1896.

Ser. No. 615,694. Fab-Weld Corporation, Philadelphia, Pa. Filed June 26, 1951.

FAB-WELD

The word "Weld" is disclaimed.
For Dollies and Hand Trucks.
Claims use since Dec. 28, 1943.

Ser. No. 617,392. Dieterich Products Corporation, Michigan City, Ind. Filed Aug. 7, 1951. (Sec. 2f as to "Dieterich.")



The drawing is lined for red.
For Automobile Visors.
Claims use since Jan. 15, 1950 as to the mark shown; and since Oct. 24, 1946 as to "Dieterich."

Ser. No. 617,504. Lindeteves Inc., New York, N. Y. Filed Aug. 9, 1951.



The drawing is lined for shading only.
For King Bolt Sets, Tie Rods, Drag Links, and Spring Shackles.
Claims use since in September 1950.

Ser. No. 617,506. Lindeteves Inc., New York, N. Y. Filed Aug. 9, 1951.

Eltee

For King Bolt Sets, Tie Rods, Drag Links, and Spring Shackles.
Claims use since September 1950.

Ser. No. 617,780. Apollo Ad Service, Inc., York, Pa. Filed Aug. 17, 1951.

RAIN-BO

For Traffic Light Indicators of the Refraction Type Adapted To Be Mounted on the Dash Cowl of an Automotive Vehicle.
Claims use since July 1, 1951.

Ser. No. 619,574. The S. E. Hyman Company, Fremont, Ohio. Filed Oct. 4, 1951. (Sec. 2f.)

STREAMLINE

Applicant claims ownership of Registration No. 389,315.
For Covers for Automobile Cushions, Seats, and Seat Backs.
Claims use since May 28, 1940.

Ser. No. 620,224. N. V. Lemet Industrie, Hilversum, Netherlands. Filed Oct. 19, 1951.

Lemet

Applicant claims ownership of Dutch Registration No. 97,419, dated Feb. 26, 1949.
For Bicycle- and Motorcycle Parts, Particularly Spokes and Nipples.

Ser. No. 620,897. "Motom" Societe a Responsabilite Limitee Zurich, Zurich, Switzerland. Filed Nov. 5, 1951.



Applicant claims ownership of Swiss Registration No. 137,792, dated Apr. 25, 1951.
For Motor Cars, Motorcycles, Tricycles, Bicycles, and Parts Thereof.

Ser. No. 623,339. Chrysler Corporation, Highland Park, Mich. Filed Jan. 9, 1952.

ORIFLOW

For Hydraulic Shock Absorbers for Motor Vehicles.
Claims use since July 17, 1951.

Ser. No. 624,718. Fichtel & Sachs Aktiengesellschaft, Schweinfurt on Main/West, Germany. Filed Aug. 8, 1951.

Torpedo

Applicant claims ownership of German Registration No. 64,486, dated Nov. 16, 1903; and United States Registration No. 77,142.

For Freewheel Hubs, Freewheel Brake Hubs, and Freewheel Hubs With Gear Transmissions, and Repair Parts Therefor.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 602,005. Carl R. Thompson, Scappoose, Oreg. Filed Aug. 9, 1950.

Econ-o-tone MUSICAL Instrument Adapter

The words "Musical Instrument Adapter" and "Tone" are disclaimed.

For Apparatus for Detachably Connecting an Electrical Musical Instrument Between the Audio Amplifier Tube and Tube Base of a Radio Receiver, the Apparatus Including an Amplifying Resistance for the Musical Instrument and a Switch for Selecting Radio Reception or Musical Instrument Amplification.

Claims use since July 7, 1950.

Ser. No. 605,512. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Oct. 26, 1950. (Sec. 2f as to "Westinghouse.")

WESTINGHOUSE W

Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.

For Electrical Apparatus, Supplies and Parts Therefor—Namely, Electric Arc Lamps; Electric Incandescent Lamps; Flashlight Bulbs; Metallic Vapor, Automobile, Fluorescent, Ultra-Violet, Infra-Red, and Glow Lamps; Starters for Fluorescent Lamps; Residential, Commercial, Industrial, Flood, Street, Aviation, and Marine Lighting Fixtures, Apparatus and Parts Therefor; Electric Dry Cell Batteries; Electric Compensators; Electric Condensers and Capacitors; Electric Conductors; Electric Connectors and Terminals; Electric Motor Controllers and Parts Therefor Used for the Starting, Stopping, and Reversing of Electric Motors Controlling the Torque Output, Inching Speed, Slip, and Power Factor of Electric Motors, and Controlling the Pull-In Torque, Pull-Out Torque, and Time of Pull-In of Electrical Synchronous Motors; Electric Converters and Frequency-Changers; Electric Dynamotors; Electric and Diesel-Electric Locomotives and Parts Therefor; Electric Welding Apparatus and Parts Therefor; Welding Electrodes; Electromagnets; Electric Fans; Electric Fuses and Fuse-Holders; Electric Generators and Generator Parts; Electronic Precipitators; Electric Insulating Bushings; Electric Insulators and Insulating Materials in Solid, Paste and Liquid Form; Lightning-Arresters, Suspension and Insulating Devices for Electric Trolley and Line Conductors; Frogs, Crossings, Attachments and Section-Insulators for Electric Trolley-Conductors; Electric Rail-Bonds; Electric Motor-Generators; Electric Voltage Regulators; Electric Motors and Motor Parts; Electric Motor-Starters; Electric Motor Regulators; Electric Relays; Electric Rheostats and Resistors; Electric Switchboards and Parts Therefor; Electric Control Panels and Parts Therefor; Electric Switches and Circuit Breakers and Interrupters and Parts Therefor; Electric Synchronizers; Electric Transformers and Parts Therefor and Electric Choke Coils and Reactors; Electric Trolleys, Pantographs and Parts Therefor; Vapor, Electrolytic and Mechanical Electrical Rectifiers and Parts Therefor; Copper-Oxide and Selenium Rectifiers and Parts Therefor; Synchronous Condensers; Electric Discharge Devices Such as Thyratrons and Ignitrons; Electrostatic Filters; Electric Contactors; Electric Lamp Starters; Bus Ducts; Metalclad Switchgear and Other Switchgear Devices; Electric Cut-Outs; Automatic Circuit Reclosers; Electric Furnaces; Electric Hand-Irons, Parts and Stands Therefor; Electric Ovens; Electric Roasters; Electric Toasters; Electric Stoves and Ranges; Electric Chafing-Dishes; Electric Saute and Frying Pans; Electric Air-Heaters; Electric Heating Pads; Electric Sheets, Blankets, and Comforters; Electric Curling Irons; Electric Waffle Bakers; Electric Sandwich Grills; Electric Hot Plates; Electric Food Mixers; Electric Vacuum Cleaners; Electric Immersion Heaters; Electric Water Heaters; Electric Dishwashers; Electric Garbage Disposal Units; Radio Telephone and Telegraph Transmitters and Receivers and Parts Therefor; Radio Broadcast and Television Transmitters and Receivers and Parts Therefor; Antenna Outfits and Systems; Head Phones; Loud Speakers; Circuit Tuners; Amplifiers; Detectors; Electronic Tubes for Radio, Television, Industrial, and Other Purposes; Magnetrons; Klystrons; Record Players; Mobile Radio Apparatus; Point to Point Radio Communication Apparatus; Microwave Relay Apparatus; Radio Frequency Heating Apparatus; Power Line Carrier Communication Apparatus; Modulators; Photo-Electric Cells; Electrical Insulating Resin-Treated Fabrics and Tapes; Mica Insulation; Electrical Insulating Phenolic Resinous Material; Insulating Paints and Varnishes; Copper Wire; Insulated Wire; Electric Elevators, Lifts and Hoists; Porcelain and Plastic Lighting Parts for Electric Lights; Reflectors and Hoods for Electric Lamps; X-Ray Tubes; and Electric Stairways.

Claims use since June 1, 1941.

Ser. No. 618,128. S & S International Corporation, New York, N. Y. Filed Aug. 27, 1951.

STANPARTS

For Automotive Engine Parts — Namely, Dimmer Switches, Solenoid Switches, Starter Switches, Stoplight Switches; Ignition Supplies—Namely, Distributors and Parts Thereof, Contact Points, Rotors, Caps, Condensers, Breaker Plate Assembly, Ignition Coils, Generators and Parts Thereof, Generator Brushes, Generator Bushings, Generator Cutouts, Generator Armatures, Generator Field Coils, Starter Brushes, Starter Bushings, Starter Armatures, Starter Field Coils, Voltage Regulators, Headlight Relays, Horn Relays, Horn Buttons.

Claims use since July 31, 1951.

Ser. No. 618,396. Limit Engineering Co. Ltd., London, England. Filed Sept. 5, 1951.

LIMIT

Applicant claims ownership of British Registration No. 683,353, dated Oct. 20, 1949.

For Electric Fans.

Ser. No. 619,280. Fred W. Albertson, Washington, D. C. Filed Sept. 27, 1951.

TELECOMMUNICATIONS DUALEX SYSTEMS PRODUCTS

All wording is disclaimed except the word "Dualex."

For Radio and Wire Teletypewriters.

Claims use since Aug. 22, 1951.

Ser. No. 624,168. Ward Leonard Electric Company, Mount Vernon, N. Y. Filed Jan. 26, 1952.

ADJUSTOHM

For Electric Resistors.

Claims use since in June 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 607,019. C. F. Hatmaker, Ocean Grove, N. J. Filed Nov. 28, 1950.

C. F. Hatmaker

The mark is a facsimile of applicant's signature.

For Playing Cards Having Featured Characteristics.

Claims use since Oct. 19, 1950.

Ser. No. 614,018. The Tarrson Company, Chicago, Ill. Filed May 17, 1951.

Trans-GLO

The word "Glo" is disclaimed.

For Stuffed Toy Representation of Animals.

Claims use since May 1, 1951.

Ser. No. 620,433. Party Planners, Inc., Chicago, Ill. Filed Oct. 24, 1951.

the party-Gamer

The word "Party" is disclaimed.

For Collection of Various Types of Party Games, Game Instructions, and Party Favors, Such as Paper Hats and Novelties, All Sold Together as a Unit.

Claims use since May 1951.

Ser. No. 621,223. Nocona Leather Goods Company, Nocona, Tex. Filed Nov. 14, 1951.

FieldRite

For Baseball Gloves.

Claims use since July 25, 1950.

Ser. No. 621,614. William C. Bennett, doing business as Assinippi Line Company, Assinippi, Mass. Filed Nov. 24, 1951.

ASSINIPPI

The drawing is lined for the color blue.

For Fishing Lines.

Claims use since Apr. 27, 1950.

Ser. No. 622,802. Chaswell Company, Chicago, Ill. Filed Dec. 26, 1951.

SNAFU

For Playing Cards.

Claims use since Dec. 5, 1951.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 561,370. Nicholson File Company, Providence, R. I. Filed Dec. 22, 1947.



All wording with the exception of the words "Great Western" and the monogram "GW" are disclaimed. The representation of the file is also disclaimed. Applicant claims ownership of Registration No. 183,885.

For Files and Rasps.

Claims use since September 1895.

Ser. No. 565,352. Sten S. Melin, doing business as Melin Industries, Cleveland, Ohio. Filed Sept. 17, 1948.

UNITOOL

For Carriage for Use in Hitching Various Soil Cultivating Implements to a Garden Tractor.
Claims use since December 1947.

Ser. No. 571,959. E. C. Ltd., New York, N. Y., assignee of Englishtown Crafts, Inc. Filed Jan. 11, 1949.

Aural

For Flatware of Base Metal—Namely, Knives, Forks, and Spoons.
Claims use since on or about May 1, 1948.

Ser. No. 573,699. American Automobile Company, Seattle, Wash. Filed Feb. 11, 1949.

NUBUILT

The word "Nubuilt" is disclaimed.
For Rebuilt Automobile Engines.
Claims use since Nov. 25, 1948.

Ser. No. 580,733. Master Addresser Company, Minneapolis, Minn. Filed June 18, 1949.

MASTER
ADDRESSER

The word "Addresser" is disclaimed.
For Hectographic Duplicating Machines for Imprinting Names and Addresses on Envelopes and Other Stationery.
Claims use since May 29, 1948.

Ser. No. 585,067. Heisler Manufacturing Company, Hudson, Iowa. Filed Sept. 20, 1949. (Sec. 2f.)

HEISLER HP PRODUCTS

The word "Products" is disclaimed. The drawing is lined for shading purposes only.
For Manifolds for Internal Combustion Engines; Overdrive Transmissions; Cylinder Heads; Governors for Internal Combustion Engines; Wire Crimping Tools; and Accessories for Tractors—Namely, Foot Throttles.
Claims use since August 1939.

Ser. No. 586,928. Mead Specialties Company, Inc., Chicago, Ill. Filed Oct. 27, 1949. (Sec. 2f.)

MEAD

For Burring Machines, Air Clamps, Air Presses, Collet Fixtures, Work Feeders, Automatic Control Mechanisms Adapted for Use as Time-Sequence Actuators for Partly or Fully Automatic Pneumatically-Powered Machines, and Air Hammers.
Claims use since Oct. 25, 1940.

Ser. No. 598,303. Ing. C. Olivetti & C. S. P. A., Ivrea, Italy. Filed May 29, 1950. (Sec. 2f.)

olivetti

For Office Machines—Namely, Typewriters and Parts Thereof.
Claims use since in 1949 as to the mark shown; and since in 1924 as to "Olivetti" in different styling; and in commerce between foreign nations and the United States since in 1949 as to the mark shown and since in 1924 as to "Olivetti" in different styling.

Ser. No. 599,693. Central Mine Equipment Company, St. Louis, Mo. Filed June 24, 1950.

COALMASTER

Applicant claims ownership of Registration No. 275,603.
For Drill Bits, Augers, Drill Heads, Wedges for Drill Bits, Couplings, Shanks, Sockets, and Adapters for Drilling Tools, Fishing Tools, Wrenches, Hammers, and Bit-Drivers.
Claims use since Feb. 27, 1930.

Ser. No. 600,537. The Gorman-Rupp Company, Mansfield, Ohio. Filed July 12, 1950. (Sec. 2f.)

GORMAN-RUPP PUMPS

The word "Pumps" is disclaimed.
For Centrifugal Pumps.
Claims use since Jan. 31, 1937.

Ser. No. 603,942. Rentco Incorporated, Wilmington, Del., and Philadelphia, Pa. Filed Sept. 23, 1950.

rentco

The drawing is lined for red.
For Lithographic Printing Machinery.
Claims use since Sept. 13, 1950.

Ser. No. 604,154. Kent-Moore Organization, Inc., Detroit, Mich. Filed Sept. 28, 1950.

Head On

For Fluid Pressure Operated Mechanism for Removing Carbon From the Interior of the Head and Adjacent Wall Surface of an Internal Combustion Engine Cylinder.
Claims use since July 7, 1950.

Ser. No. 607,134. Merriman Bros. Inc., Boston, Mass. Filed Nov. 30, 1950. (Sec. 2f—Additional evidence.)

ALBRECHT RING

The word "Ring" is disclaimed.
For Ring for Use in Spinning and Twisting Frames in the Textile Manufacturing Industry.
Claims use since Nov. 22, 1944.

Ser. No. 607,287. Guardite Corporation, Chicago, Ill. Filed Dec. 5, 1950.

GUARDITE

Applicant claims ownership of Registration No. 333,996.
For Units for Moistening, Dehydrating, Cooling, Sterilizing, Fumigating, and Puffing Organic Products Such as Grain, Meal and Flour, Fruits and Vegetables, Meats, Tobacco, Furs and Fabrics; and Parts of Such Units—Namely, Pumps, Fluid Injectors, and Conveyors.
Claims use since in May 1939.

Ser. No. 609,550. Gray Company, Inc., Minneapolis, Minn. Filed Feb. 2, 1951.

TRU-ARC

The drawing is lined for red.
For Tire-Buffing Machine—Namely, a Machine for Buffing the Tread Zone of a Tire Preliminary to a Retreading Operation.
Claims use since June 10, 1940.

Ser. No. 611,305. Dresser Industries, Inc., Dallas, Tex. Filed Mar. 19, 1951.

DRESSER

Applicant claims ownership of Registration No. 549,537.
For Wrenches.
Claims use since 1905.

Ser. No. 612,152. British Oilfield Equipment Co. Limited, Hunslet, Leeds, England. Filed Apr. 3, 1951.

BOFEC

Applicant claims ownership of British Registration No. 642,634, dated Dec. 6, 1945.
For Machinery for Drilling and Oil Prospecting Comprising Power Driven Slush Pumps, Well Pumping Units and Speed Reducers, Drill Collars, Kellys, Slush Pump Liners, Piston Rods, Fluid End Pistons, and Drilling Rig Drive Groups.

Ser. No. 613,889. James Beresford & Son Limited, Marston Green, Birmingham, England. Filed May 9, 1951. (Sec. 2f.)

BERESFORD

For Pumps—Namely, Centrifugal Pumps, Submersible Electrically-Driven Pumps, Sump Pumps, Suds Pumps, Fire-Fighting Pumps, and Fire-Fighting Pump Trailers.
Claims use since Dec. 1, 1934; and since Dec. 1, 1934 in commerce between foreign nations and the United States.

Ser. No. 614,572. Rival Manufacturing Company, Kansas City, Mo. Filed May 31, 1951.

Shred-O-Mat

The word "Shred" is disclaimed. Applicant claims ownership of Registration No. 346,876.
For Hand-Operated Food Shredders.
Claims use since July 1949.

Ser. No. 615,119. The C. S. Johnson Company, Champaign, Ill. Filed June 13, 1951.

PORTO-BATCHER

The word "Batcher" is disclaimed.
For Batching Plant for Concrete Constituents.
Claims use since Feb. 12, 1945.

Ser. No. 615,520. Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Filed May 31, 1951.

HYPRO

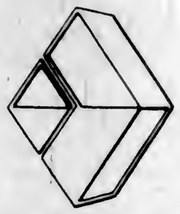
Applicant claims ownership of Registration No. 201,864.
For Metal Working Machines—Namely, Metal Planers, Vertical Boring Mills, Planer Millers, and Production Milling Machines.
Claims use since June 1, 1924.

Ser. No. 617,442. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Aug. 8, 1951. (Sec. 2f.)

AIR-BUCK

For Automatic Self-Bucking Riveter.
Claims use since November 1942.

Ser. No. 618,523. Alwin Manufacturing Company, Green Bay, Wis. Filed Sept. 8, 1951.



The mark comprises a monogram including an L-shaped figure having apparent thickness and having a diamond shaped figure included in the angle of the L.
For Mechanical Dispensers for Paper Napkins and Paper Towels.
Claims use since Jan. 2, 1951.

Ser. No. 619,611. Estwing Manufacturing Company, Incorporated, Rockford, Ill. Filed Oct. 5, 1951. (Sec. 2f.)

ESTWING

For Hammers and Hatchets.
Claims use since July 1, 1923.

Ser. No. 621,690. Unit Parts Company, Oklahoma City, Okla. Filed Nov. 26, 1951.



The drawing is lined for shading only.
For Rebuilt Automotive Parts—Namely, Clutch Pressure Assemblies, Clutch Plates, Fuel Pumps, Carburetors, Water Pumps, and Fluid Drive Units.
Claims use since March 1945.

Ser. No. 622,501. Kennametal Inc., Latrobe, Pa. Filed Dec. 14, 1951.

KENNAMATIC

Applicant claims ownership of Registration No. 517,064.
For Carbide Cutting Tools—Namely, Cutting Tips and Inserts, and Tool Holders for Machine Tools.
Claims use since Sept. 24, 1947.

Ser. No. 623,091. Totem Distributing Co., Seattle, Wash. Filed Jan. 2, 1952.

TOTEM

For Wooden Handles for Use in Hammers, Hatchets, and Similar Types of Tools.
Claims use since on or about Jan. 15, 1950.

Ser. No. 625,556. Westfalia Separator Co., Oelde/Westfalia, Germany. Filed Feb. 26, 1952.

LUWESTA

For Extraction Centrifuges.
Claims use since Mar. 6, 1950; and since Oct. 22, 1951 in commerce between foreign nations and the United States.

Ser. No. 626,575. Byron Jackson Co., Los Angeles, Calif. Filed Mar. 17, 1952.

SUBETTE

For Centrifugal and Turbine Pumps, and Parts Thereof.
Claims use since Nov. 9, 1950.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 622,973. The American Laundry Machinery Company, Cincinnati, Ohio. Filed Dec. 29, 1951.

Rotex

Applicant claims ownership of Registration No. 559,148.
For Laundry and Dry Cleaning Centrifugal Extractors.
Claims use since Nov. 23, 1951.

Ser. No. 623,092. Tower Manufacturing Company, Oklahoma City, Okla. Filed Jan. 2, 1952.



The word "Bord" (equivalent of board) is disclaimed.
For Ironing Board.
Claims use since Aug. 23, 1951.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 593,309. Willson Products, Inc., Reading, Pa. Filed Mar. 2, 1950.

HI-LINE

For Ophthalmic Mountings and Parts Thereof.
Claims use since Jan. 23, 1950.

Ser. No. 600,995. Sterling Plastics Company, Union, N. J. Filed July 20, 1950.



Applicant claims ownership of Registration No. 421,514.
For Articles Made at Least in Part of Molded Plastics—Namely, Rulers, Protractors, and Combination Measuring Cups and Pouring Spouts for Bottles.
Claims use since August 1945.

Ser. No. 624,530. Continental Optical Company, Inc., Indianapolis, Ind. Filed Feb. 5, 1952.

COLORCREST

For Spectacle Frames and Mountings Therefor.
Claims use since Jan. 7, 1952.

Ser. No. 624,557. Modern Optics, Incorporated, Houston, Tex. Filed Feb. 5, 1952.



For Ophthalmic Lenses and Lens Blanks.
Claims use since Nov. 4, 1947.

Ser. No. 624,693. The Lufkin Rule Company, Saginaw, Mich. Filed Feb. 8, 1952.

ROYAL

For Measuring Tapes.
Claims use since Dec. 12, 1951.

Ser. No. 624,701. R. J. Pagliuso, doing business as Pagliuso Engineering Company, Glendale, Calif. Filed Feb. 8, 1952.

EXTENDO

For Camera Tripods.
Claims use since Dec. 18, 1951.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 604,786. Kelbert Watch Company, New York, N. Y. Filed Oct. 12, 1950.

HYDROKELT

For Watches, Watch Cases, and Watch Movements and Parts Thereof.
Claims use since Sept. 15, 1950.

Ser. No. 613,363. Clairmont Trading Corporation, Chicago, Ill. Filed May 1, 1951.

CLAIRMONT

For Watches.
Claims use since Oct. 19, 1950.

Ser. No. 620,971. Adolf Schwarcz & Son, Inc., New York, N. Y. Filed Nov. 7, 1951.

DELGARD

For Watches, Including Watch Cases and Watch Movements.
Claims use since Oct. 29, 1951.

Ser. No. 621,365. Illinois Watch Case Co., Elgin, Ill. Filed Nov. 17, 1951.

PERMA-TIME

The word "Time" is disclaimed.
For Hair Springs for Watches.
Claims use since Oct. 3, 1951.

Ser. No. 622,124. Savoy Watch Co., Inc., New York, N. Y. Filed Dec. 5, 1951.



Applicant claims ownership of Registration No. 234,239.
For Watches, Watch Cases, and Watch Findings.
Claims use since Apr. 15, 1927.

Ser. No. 623,349. Global Watch Company, Inc., New York, N. Y. Filed Jan. 9, 1952.

GLOBAL TRIUMPH

For Watches and Watch Movements.
Claims use since Oct. 22, 1951.

Ser. No. 623,463. The Gruen Watch Company, Cincinnati and Time Hill, Cincinnati, Ohio. Filed Jan. 11, 1952.

SEA DOG

For Watches, Watch Cases, and Watch Movements.
Claims use since Dec. 21, 1951.

Ser. No. 624,486. Nathan Hammer, New York, N. Y. Filed Feb. 4, 1952.

COLORVISION

For Watches.
Claims use since Nov. 1, 1951.

Ser. No. 624,821. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Feb. 12, 1952.

Fedway

For Watches and Clocks.
Claims use since Jan. 26, 1952.

Ser. No. 625,735. The Gruen Watch Company, Cincinnati and Time Hill, Cincinnati, Ohio. Filed Feb. 29, 1952.

CARIOCA

For Watches, Watch Cases, and Watch Movements.
Claims use since Feb. 15, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 323,311. Granat Bros., San Francisco, Calif. Original filed, act of 1905, May 31, 1947; amended to application under act of 1946, Principal Register, May 9, 1950. (Sec. 2f.)

Tempered

Applicant claims ownership of Registrations Nos. 397,040, 400,701, and others.
For Articles of Jewelry for Personal Wear and Adornment—Namely, Finger Rings.
Claims use since June 14, 1940.

Ser. No. 609,140. Oneida Ltd., Oneida and Sherrill, N. Y. Filed Jan. 23, 1951.

GOOD TASTE TODAY

The words "Good Taste" are disclaimed.
For Silverplated Flat and Hollow Tableware.
Claims use since Aug. 1, 1950.

Ser. No. 609,451. I. Roskin Company, Inc., New York, N. Y. Filed Jan. 31, 1951.

GLARE TOP

For Finger Rings and Settings for Finger Rings.
Claims use since Jan. 18, 1951.

Ser. No. 615,940. Monocraft Products Co., New York, N. Y. Filed June 30, 1951.

MONOCRAFT

Applicant claims ownership of Registration No. 288,206.
For Jewelry—Namely, Necklaces, Bracelets, Brooches, Earrings, and Ornamental Clips.
Claims use since May 19, 1927.

Ser. No. 616,058. Speidel Corporation, Providence, R. I. Filed July 3, 1951.

BOLD VENTURE

For Watch Bracelets (Not Including Watches).
Claims use since June 13, 1951.

Ser. No. 618,050. Lasko Strap Company, New York, N. Y. Filed Aug. 24, 1951.

"GUARDETTE"

For Wrist Watch Straps.
Claims use since April 1948.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 585,647. Knomark Manufacturing Co. Inc., Brooklyn, N. Y. Filed Oct. 1, 1949.

LADY ESQUIRE

"Lady Esquire" is a fanciful name. Applicant claims ownership of Registration No. 434,768.
For Brushes and Sponges for Pocket or Purse for Cleaning and Reconditioning Suede and Fabric Shoes, Bags, Gloves, Belts, and the Like.
Claims use since about May 1947.

Ser. No. 586,983. Modglin Company, Inc., Los Angeles, Calif. Filed Oct. 28, 1949.

Perma-scrub

The word "Scrub" is disclaimed.
For Plastic Whisk Hand Brushes Adapted to Culinary Use.
Claims use since Feb. 16, 1949.

Ser. No. 624,198. Kiddie Kabinette, Inc., New York, N. Y. Filed Jan. 28, 1952.

GOOD MORNING

For Tooth Brushes.
Claims use since September 1950.

Ser. No. 624,199. Kiddie Kabinette, Inc., New York, N. Y. Filed Jan. 28, 1952.

GOOD NIGHT

For Tooth Brushes.
Claims use since September 1950.

Ser. No. 625,644. Victoria-Vogue, Inc., New York, N. Y. Filed Feb. 27, 1952.

Vacuseal

For Powder Puffs.
Claims use since Feb. 1, 1952.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 604,484. McCray Refrigerator Company, Kendallville, Ind., now by change of name McCray Refrigerator Company, Inc. Filed Oct. 5, 1950. (Sec. 2f as to the words "McCray" and "Koldflo.")

McCray

Applicant claims ownership of Registrations Nos. 52,105, 352,723, 388,125, and 505,710.
For Refrigerators—Namely, Refrigerated Service and Self-Service Cases, and Walk-In, Reach-In, and Beverage Coolers.
Claims use since on or about November 1946 as shown; since 1940 as to "Koldflo"; and since January 1890 as to "McCray."

Ser. No. 606,306. Liquid Freeze Corporation, Oakland, Calif. Filed Nov. 13, 1950.

IT'S "FRACTURMATIC"

For Ice-Making Machines.
Claims use since June 1, 1950.

Ser. No. 618,883. Carter Carburetor Corporation, St. Louis, Mo. Filed Sept. 17, 1951.

POWER CENTER

The word "Power" is disclaimed.
For Liquid Fuel Filters.
Claims use since in November 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 614,646. The Brunswick-Balke-Collender Company, Chicago, Ill. Filed June 2, 1951.

REGAL

For Counter and Wall Type Display Cases.
Claims use since Apr. 18, 1951.

Ser. No. 620,042. King Karpen Company, Alhambra, Calif. Filed Oct. 16, 1951.

Airbeam Bedding

The word "Bedding" is disclaimed.
For Mattresses, Box Springs, and Bed Bolsters.
Claims use since Oct. 8, 1951.

Ser. No. 623,648. Chromaster Furniture Corp., Newark, N. J. Filed Jan. 16, 1952.

CHROMASTER

For Wood and Metal Kitchen and Dinette Chairs and Tables.
Claims use since Jan. 10, 1952.

Ser. No. 624,753. Modernize, Incorporated, Chicago, Ill. Filed Feb. 9, 1952.

designed by modernize

The words "By Modernize" are disclaimed.
For Upholstered and Cloth Covered Furniture, Particularly Chairs and Couches.
Claims use since Oct. 10, 1951.

Ser. No. 625,851. Fagg Upholstery Company, High Point, N. C. Filed Mar. 3, 1952.

PLASTIC MASTERS

The word "Plastic" is disclaimed.
For Furniture Upholstered With Plastic Sheeting Material—Namely, Sofas, Ottomans, and Chairs.
Claims use since Feb. 1, 1951.

CLASS 33

GLASSWARE

Ser. No. 614,479. American Window Glass Company, Pittsburgh, Pa. Filed May 29, 1951.



The drawing is lined for black and green but color is not claimed. The word "American" and the representation of a sheet of glass are disclaimed. Applicant claims ownership of Registration No. 377,952.
For Sheet Glass.
Claims use since Mar. 15, 1950.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 587,223. Prole & Coogan Heating Company, Pittsburgh, Pa. Filed Oct. 12, 1949.



The expressions "Heat Your Home With Warm Air" and "The Earth Is Heated With Warm Air" are disclaimed.
For Gas, Oil, and Coal Fired Furnaces Used for Heating Homes, Churches, and Buildings, Such Furnaces Being of the Forced Air, Warm Air, Steam, and Vapor Types; for Blowers and Fans Used To Ventilate Homes, Churches,, and Buildings and Used With Such Furnaces To Control Heat Flow; and for Air and Fuel Proportioning Valves for Such Heating Furnaces, Blowers, and Fans.
Claims use since on or before May 1, 1944.

Ser. No. 611,401. Joseph D. Christian, San Francisco, Calif. Filed Mar. 16, 1951. (Sec. 2f.)

"HOLO-FLITE"

For Heat Exchanging Equipment Including One or More Heat Exchange Screw Conveyors Comprised of a Hollow Screw Through Which the Heat Transfer Agent Passes.
Claims use since Jan. 9, 1940.

Ser. No. 611,566. Thomas F. Downs, Springfield, Mass. Filed Mar. 20, 1951.

T-DEE



For Gas Water Heater.
Claims use since Nov. 15, 1948.

Ser. No. 613,766. Corning Glass Works, Corning, N. Y. Filed May 11, 1951. (Sec. 2f.)

STEUBEN

Applicant claims ownership of Registration No. 132,339.
For Following Articles of Glass—Namely, Candlesticks and Candelabra.
Claims use since on or about Jan. 1, 1904.

Ser. No. 614,870. Corning Glass Works, Corning, N. Y. Filed June 7, 1951. (Sec. 2f.)

Steuben

Applicant claims ownership of Registration No. 132,339.
For Following Articles of Glass—Namely, Candlesticks and Candelabra.
Claims use since on or about Jan. 1, 1904.

Ser. No. 626,416. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Mar. 13, 1952. (Sec. 2f.)

ROBERTSHAW

Applicant claims ownership of Registration No. 509,419
For Combined Pilot and Main Burner Gas Valves, and Pilot Burners.
Claims use since 1900.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 605,124. Thermoid Company, Trenton, N. J. Filed Oct. 18, 1950.

"Redi-Curv" Radiator Hose

The words "Radiator Hose" are disclaimed.
For Radiator Hose.
Claims use since January 1950.

Ser. No. 627,482. Atlas Supply Company, Newark, N. J. Filed Apr. 3, 1952.

ATLAS *mile-pak*

Applicant claims ownership of Registrations Nos. 288,702, 366,714, and others.
For Rubber Tires.
Claims use since Mar. 12, 1951.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 579,301. White & Wyckoff Mfg. Co., Holyoke, Mass. Filed May 21, 1949.

TALL BOX

The term "Box" is disclaimed.
For Greeting Cards.
Claims use since Jan. 25, 1949.

Ser. No. 589,398. The United States Printing & Lithograph Company, Norwood, Ohio. Filed Dec. 15, 1949.

EYE-O-MATIC

For Printed Labels; Printed Point-of-Sale Advertising Material—Namely, Window Displays, Counter Displays, Wall Posters, Printed Display Banners, Billboard Posters, Broadsides; Printed Menu Cards, Booklets, Printed Book Covers, Wall Calendars, Fine Art Prints, and Prepared Advertising Sold as Such.
Claims use since on or about Aug. 1, 1949.

Ser. No. 608,794. J. A. Folger & Company, Kansas City, Mo. Filed Jan. 13, 1951. (Sec. 2f as to "Folger.")

the FOLGER Way

For Weekly Publication.
Claims use since February 1925.

Ser. No. 609,466. McNaught Publications, Inc., Beverly Hills, Calif. Filed Jan. 25, 1951.

Los Angeles Star

The words "Los Angeles" is disclaimed.
For Publication—Namely, a Newspaper.
Claims use since Sept. 14, 1948.

Ser. No. 611,156. Stokes Tax Controls, Inc., New York, N. Y. Filed Mar. 10, 1951. (Sec. 2f as to the words "Dealer Tax Bulletin.")



For Periodicals.
Claims use since Jan. 31, 1944.

Ser. No. 611,157. Stokes Tax Controls, Inc., New York, N. Y. Filed Mar. 10, 1951. (Sec. 2f as to the words "Stokes Tax Controls.")



For Periodicals.
Claims use since Dec. 31, 1944.

Ser. No. 624,062. United Feature Syndicate, Inc., New York, N. Y. Filed Jan. 24, 1952.

Ferd'nand

"Ferd'nand" is the name of a fictitious character.
For Comic Drawings Published in Daily and Sunday Newspapers.
Claims use since Nov. 10, 1947.

Ser. No. 624,648. George Eastman House, Inc., Rochester, N. Y. Filed Feb. 7, 1952.

IMAGE

For Periodical Publication.
Claims use since Jan. 31, 1952.

Ser. No. 624,668. Tiny Tot Comics, Inc., New York, N. Y. Filed Feb. 7, 1952.

SHOCK SUSPENSTORIES

The word "SuspenStories" is disclaimed.
For Magazine Published Periodically.
Claims use since Sept. 16, 1951.

CLASS 39

CLOTHING

Ser. No. 535,854. Lerner Bros. Mfg. Co. Inc., Baxter Springs and Kansas City, Mo. Filed Sept. 26, 1947.

Holiday

For Men's Clothing—Namely, Men's Outer Shirts and Lounging, Beach and Bath Robes.
Claims use since Jan. 1, 1945.

Ser. No. 558,928. I. Schnelerson & Sons, Inc., New York, N. Y. Filed June 10, 1948. (Sec. 2f—Additional evidence.)

Bilt-up

Applicant claims ownership of Registration No. 332,856.
For Ladies' Princess Slips of a Textile Fabric.
Claims use since Jan. 3, 1935.

Ser. No. 594,562. Miss Swank, Inc., New York, N. Y. Filed Mar. 24, 1950.

Miss Swank

Applicant claims ownership of Registration No. 306,844.
For Slips, Petticoats, Pajamas, and Blouses.
Claims use since June 28, 1932.

Ser. No. 601,069. The Nolde and Horst Company, Reading, Pa. Filed July 21, 1950. (Sec. 2f as to "Nolde.")

NOLDE SHORTIES

The word "Shorties" is disclaimed. Applicant claims ownership of Registrations Nos. 304,874, 399,257, and 403,616.
For Women's Hosiery.
Claims use since May 1948 on the mark as shown; and since March 1933 on the word "Nolde."

Ser. No. 601,670. Ward Green Company, New York, N. Y. Filed Aug. 3, 1950.

ABDO-SLIM

The word "Slim" is disclaimed.
For Girdles.
Claims use since Sept. 12, 1947.

Ser. No. 607,137. Oneita Knitting Mills, Utica, N. Y. Filed Nov. 30, 1950.

Oneita

Applicant claims ownership of Registrations Nos. 196,321, 277,817, and others.
For Men's and Boys' T-Shirts, Polo Shirts, Sweat Shirts, Undershirts, Underdrawers, and Briefs.
Claims use since Mar. 1, 1893.

Ser. No. 608,568. M. C. Ross Mfg. Co. Inc., New York, N. Y. Filed Jan. 9, 1951. (Sec. 2f.)

Ross-Maid

The name "Ross-Maid" is fanciful.
For Girls' Blouses and Dresses.
Claims use since Dec. 15, 1945.

Ser. No. 612,210. Mark Cross Company, New York, N. Y. Filed Apr. 4, 1951.

COSTERMONGER

For Men's and Women's Sweaters.
Claims use since Oct. 4, 1950.

Ser. No. 616,436. Walter W. Moyer Company, Ephrata, Pa. Filed July 13, 1951.

ComfyNites

For Underwear and Sleeping Garments, the Latter Consisting of Shirt and Pants, for Men, Women, Boys, and Girls.
Claims use since June 27, 1951.

Ser. No. 619,340. Graceform-Camlin Corset Co., Inc., New York, N. Y. Filed Sept. 28, 1951.

TRU CONTROL

The word "Control" is disclaimed.
For Brassières, Girdles, and Combination Brassières and Corsets Made of Textile, Netted, Knitted, Elastic, and All-Rubber Fabric.
Claims use since Sept. 3, 1951.

Ser. No. 619,664. Wisteria Hosiery Mills, Inc., Gastonia, N. C. Filed Oct. 5, 1951.

Pink Shell

The word "Pink" is disclaimed.
For Ladies' Hosiery.
Claims use since Aug. 10, 1951.

Ser. No. 623,740. Universal Latex Corporation, Brockton, Mass. Filed Jan. 17, 1952.

Perfect Circle

For Baby Pants and Women's Girdles Made of Latex.
Claims use since Dec. 7, 1951.

Ser. No. 624,194. Gay Togs, Inc., New York, N. Y. Filed Jan. 28, 1952.



The drawing is lined for red. The words "Sun," "Fashioned By" and "Gaytogs" are disclaimed.
For Ladies' Apparel—Namely, Dresses, Skirts, Blouses, Shorts, Pedal Pushers, Brassières, Halters, Slacks, Robes, and Bathing Suits, Sun Suits, and Sport Suits.
Claims use since Jan. 9, 1952.

Ser. No. 624,657. Princess Peggy, Inc., Peoria, Ill. Filed Feb. 7, 1952.

Pop-On

For Blouses, Smocks, and Aprons for Women, Misses, and Girls.
Claims use since Jan. 23, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 588,394. Sears, Roebuck and Co., Chicago, Ill. Filed Nov. 26, 1949. (Sec. 2f.)

FIBREFLOR

For Woven Fiber Rugs and Carpeting.
Claims use since Apr. 30, 1943.

Ser. No. 588,979. Tubular Textile Machinery Corporation, Woodside, N. Y. Filed Dec. 7, 1949.

Relax-Set

The word "Set" is disclaimed.
For Knitted Piece Goods of Cotton, Woolen, and Combinations Thereof.
Claims use since Nov. 21, 1949.

Ser. No. 614,587. Verney Corporation, Manchester, N. H. Filed May 31, 1951.

VER-DRI

The word "Dri" is disclaimed.
For Piece Goods of Synthetic Fibers Such as Rayon, Nylon, "Orlon," and Acetate, or of Combinations of Such Synthetic Fibers and Cotton.
Claims use since November 1948.

Ser. No. 614,588. Verney Corporation, Manchester, N. H. Filed May 31, 1951.

Verniset

Applicant claims ownership of Registration No. 509,819.
For Piece Goods of Synthetic Fibers Such as Rayon, Nylon "Orlon," and Acetate, or of Combinations of Such Synthetic Fibers and Cotton.
Claims use since August 1948.

Ser. No. 615,544. Gehring Textiles, Inc., New York, N. Y. Filed June 22, 1951.

Perma-Flute

The word "Flute" is disclaimed.
For Textile Fabrics in the Piece Knitted From Nylon.
Claims use since on or about May 2, 1951.

Ser. No. 616,502. A. D. Juilliard & Co., Inc., New York, N. Y. Filed July 14, 1951.

MIREEN

For Woolen Piece Goods.
Claims use since Aug. 30, 1950.

Ser. No. 619,078. Grandma Moses Properties, Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, Sept. 21, 1951; amended to application, Principal Register, Mar. 13, 1952.

A Grandma Moses fabric
"THE WELL"



from the original painting "At the Well" by Grandma Moses

The words "From the Original Painting" and "Fabric" are disclaimed. "Grandma Moses" is the name by which

the well-known primitive painter, Anna Mary Robertson Moses, is known, and her consent is of record. Applicant claims ownership of Registration No. 556,305.

For Fabrics-in-the-Piece Made of Wool and Synthetic Fibers.

Claims use since Apr. 3, 1950.

Ser. No. 619,079. Grandma Moses Properties, Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, Sept. 21, 1951; amended to application, Principal Register, Mar. 15, 1952.

A Grandma Moses fabric
"EARLY SPRINGTIME"



from the original painting "Early Springtime on the Farm" by Grandma Moses

The words "From the Original Painting" and "Fabric" are disclaimed. "Grandma Moses" is the name by which the well-known primitive painter, Anna Mary Robertson Moses, generally is known, and her consent is of record. Applicant claims ownership of Registration No. 556,305.

For Fabrics-in-the-Piece Made of Wool and Synthetic Fibers.

Claims use since Apr. 3, 1950.

Ser. No. 619,080. Grandma Moses Properties, Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, Sept. 21, 1951; amended to application, Principal Register, Mar. 15, 1952.

A Grandma Moses fabric
"WILLIAMSTOWN"



from the original painting "Williamstown" by Grandma Moses

The words "From the Original Painting" and "Fabric" are disclaimed. "Grandma Moses" is the name by which the well-known primitive painter, Anna Mary Robertson Moses, generally is known, and her consent is of record. Applicant claims ownership of Registration No. 556,305.

For Fabrics-in-the-Piece Made of Wool and Synthetic Fibers.

Claims use since Apr. 3, 1950.

Ser. No. 619,753. Grandma Moses Properties, Inc., New York, N. Y. Original filed, act of 1946, Supplemental Register, Oct. 9, 1951; amended to application, Principal Register, Mar. 15, 1952.

A Grandma Moses fabric
"CHILDHOOD HOME"



from the original painting "Childhood Home" by Grandma Moses

The words "From the Original Painting" and "Fabric" are disclaimed. "Grandma Moses" is the name by which the well-known painter, Anna Mary Robertson Moses, generally is known, and her consent is given. Applicant claims ownership of Registration No. 556,305.

For Fabrics-in-the-Piece Made of Wool and Synthetic Fibers.

Claims use since Apr. 3, 1950.

Ser. No. 625,101. Forstmann Woolen Co., Passaic, N. J. Filed Feb. 18, 1952.

MARINA

Applicant claims ownership of Registrations Nos. 188,667, 279,765, and others.

For Woolen Piece Goods.

Claims use since Feb. 13, 1952.

Ser. No. 625,639. J. L. Stifel & Sons, Inc., Wheeling, W. Va. Filed Feb. 27, 1952.

SKY SPUN

The word "Spun" is disclaimed.

For Shirting in the Piece Made of 100% Viscose Spun Rayon.

Claims use since Feb. 14, 1952.

Ser. No. 625,680. Lebanon Woolen Mills Corporation, Lebanon, N. H., and Boston, Mass. Filed Feb. 28, 1952.

ZEBRATONE

For Woolen Fabrics.

Claims use since Feb. 21, 1952.

Ser. No. 625,730. D. B. Fuller & Co., Inc., New York, N. Y. Filed Feb. 29, 1952.

Nub-A-Lyn

The word "Nub" is disclaimed.

For Textile Fabrics in the Piece, of Cotton, Rayon, Protein Fibers, and Mixtures Thereof.

Claims use since Jan. 16, 1952.

Ser. No. 626,189. Boott Mills, Lowell, Mass. Filed Mar. 10, 1952.

BOOTTEEN

Applicant claims ownership of Registrations Nos. 116,815 and 374,017.

For Corduroy Fabric in the Piece.

Claims use since Feb. 11, 1952.

Ser. No. 629,102. Forstmann Woolen Co., Passaic, N. J. Filed May 2, 1952.

ASTRACURL

Applicant claims ownership of Registrations Nos. 401,553 and 340,275.

For Woolen Piece Goods.

Claims use since Apr. 24, 1952.

Ser. No. 629,155. Einiger Mills, Inc., New York, N. Y. Filed May 3, 1952.

CAMELAIRE

For Textile Fabrics in the Piece Made of Wool.

Claims use since Mar. 31, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 580,972. Bemis Bro. Bag Company, St. Louis, Mo. Filed June 24, 1949.



Applicant claims ownership of Registrations Nos. 120,242, 169,435, and others.

For Sewing Thread for Stitching Heavy Fabric, Such as Burlap, and Paper Bags.

Claims use since Aug. 2, 1922.

Ser. No. 621,420. Joel M. Philips, doing business under the name and style of Advance Silk Co., New York, N. Y. Filed Nov. 19, 1951.

FLEXIBOND

For Threads and Yarns of Silk, Cotton, and Synthetic Fibers.

Claims use since September 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 580,142. National Cylinder Gas Company, Chicago, Ill. Filed June 8, 1949. (Sec. 2f—Additional evidence.)

Plymouth

For Therapeutic Gas Inhalation and Administration Equipment and Parts Thereof—Namely, Oxygen Tents and Gas Cooling, Circulating, Mixing, and Proportioning Apparatus, and Transparent or Translucent Enclosing Canopies for Medical Uses.

Claims use since on or about Nov. 6, 1947.

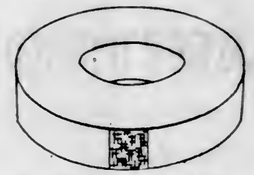
Ser. No. 593,793. Edmondo Alberto Fisch, Zurich, Switzerland. Filed Mar. 11, 1950.

Cytozon

Applicant claims ownership of Swiss Registration No. 81,278, dated Oct. 21, 1933.

For Electrical Ozone Producing Apparatus for Dental Use.

Ser. No. 597,114. J. F. Wilson Associates, Ltd., Davis, Calif. Filed May 8, 1950.



The mark comprises a yellow spot covering a minor peripheral segment of the outer edge of the ring. The representation of the goods is disclaimed.

For Rings for Castrating and Docking Livestock.

Claims use since in November 1948.

Ser. No. 620,380. Don Baxter, Inc., Glendale, Calif. Filed Oct. 29, 1951. (Sec. 2f.) CONCURRENT USE with Serial Nos. 620,381, 620,382, and 620,383 for the area comprising California, Nevada, Arizona, Oregon, Washington, Idaho, Montana, Utah, New Mexico, Colorado, Wyoming, and the city of El Paso in Texas, and in the Hawaiian Islands and Alaska.

BAXTER

For Evacuated Glass Containers Having Special Stoppers for the Administration of Parenteral, Enteral, and Topical Solutions; Administration Sets Comprising: Rubber Tubing, Special Clamps To Regulate the Flow Through Said Tubing, and Needles for Administration of Solutions, and Parts Therefor; Administration Sets and Parts Therefor for Infusing Blood and Blood Products Comprising: Rubber Tubes, Special Clamps for Regulating the Flow of Blood and Blood Products, With or Without Needles and With or Without Special Evacuated Containers Having Special Stoppers for the Administration of Said Blood and Blood Products; Drip Meters for Measuring and Regulat-

ing the Flow of Parenteral, Enteral, and Topical Solutions; Regulating Clamps for Regulating the Flow of Solutions or Blood Through Tubing; Blood Donor Sets Comprising a Length of Rubber or Plastic Tubing With Needle Adaptors or Needles in Each End of the Tubing; Combination Drip Meters and Filters for Regulating and Filtering the Flow of Blood; Strainers for Blood and Blood Products; Evacuated Containers Having Especially Adapted Stoppers To Permit the Insertion of Blood and Blood Products in Said Evacuated Containers and for Dispensing Said Blood or Blood Products; Especially Stoppered Vials for Mixing and Dispersing Parenteral, Enteral, and Topical Solutions; Expendable Administration Sets; Stomach Tubes; Gastrointestinal Tubes; Rectal Tubes; Oxygen Catheters; Extension Tubes Comprising a Length of Rubber or Plastic Tubing With a Male Adaptor in One End and a Female Adaptor in the Other End; Suction Syphon Sets Comprising an Upper Suction Syphon Bottle With Stopper Metal Tubes and Fixtures To Hold Stopper in Place With Bail and Band and Auxiliary Bottle With Stopper.

Claims use since July 19, 1929.

Ser. No. 620,812. Ross C. Lindley, Seattle, Wash. Filed Nov. 2, 1951.

TYPADON

For Dental Platen.
Claims use since Oct. 26, 1951.

Ser. No. 623,432. The Sanitube Company, Newport, R. I. Filed Jan. 10, 1952.

SANITRON

For Latex Prophylactics for the Prevention of Venereal Diseases.
Claims use since Sept. 24, 1949.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 470,350. Rockwood & Co., Brooklyn, N. Y. Original filed, act of 1905, May 17, 1944; amended to application under act of 1946, Principal Register, June 30, 1950. (Sec. 2f as to the name "Rockwood's.")

Rockwood's
Vanilla Chocolate
KINGS

The words "Vanilla Chocolate" are disclaimed. Applicant claims ownership of Registration No. 423,104.
For Chocolate Confection Candy Pieces.
Claims use since Feb. 20, 1942.

Ser. No. 516,281. Hinton & Co. Inc., New York, N. Y. Filed Jan. 24, 1947. (Sec. 2f.)

"Topsail"

For Bird Food.
Claims use since October 1940.

Ser. No. 538,112. The Ellis Canning Company, Denver, Colo. Filed Oct. 17, 1947. (Sec. 2f.)

Ellis

Applicant claims ownership of Registration No. 239,368.
For Canned Chili Con Carne, Tamales With Sauce, Spaghetti and Meat Balls.
Claims use since Jan. 20, 1920.

Ser. No. 542,525. Booth Fisheries Corporation, Chicago, Ill. Filed Nov. 28, 1947. (Sec. 2f.)

BOOTH

Applicant claims ownership of Registrations Nos. 425,257, 415,183, 119,643, and 370,697.
For Frozen Fresh Vegetables; Frozen Fresh Citrus and Deciduous Fruits; Canned Applesauce; Canned Citrus Juices; Canned Cocoanut; Frozen Fresh Berries; Dressed, Frozen, and Canned Poultry; Frozen, Canned, Salted, Fresh, Pickled, and Smoked Fish.
Claims use since September 1942 as shown; and since 1850 as to the word "Booth."

Ser. No. 542,526. Booth Fisheries Corporation, Chicago, Ill. Filed Nov. 28, 1947. (Sec. 2f.)

BOOTH

Applicant claims ownership of Registrations Nos. 370,697, 119,643, 415,183, and 425,257.
For Frozen Fresh Vegetables; Frozen Fresh Citrus and Deciduous Fruits; Canned Applesauce; Canned Citrus Juices; Canned Cocoanut; Frozen Fresh Berries; Dressed, Frozen, and Canned Poultry; Frozen, Canned, Salted, Fresh, Pickled, and Smoked Fish.
Claims use since 1850.

Ser. No. 542,527. Booth Fisheries Corporation, Chicago, Ill. Filed Nov. 28, 1947.



Applicant claims ownership of Registration No. 94,872.
For Frozen Fresh Vegetables; Frozen Fresh Citrus and Deciduous Fruits; Canned Applesauce; Canned Citrus Juices; Canned Cocoanut; Frozen Fresh Berries; Dressed, Frozen, and Canned Poultry; Frozen, Canned, Salted, Fresh, Pickled, and Smoked Fish.
Claims use since December 1938.

Ser. No. 549,435. The Flavour Candy Company, Chicago, Ill. Filed Feb. 11, 1948. (Sec. 2f as to "Wisconsin"—Additional evidence.)

WISCONSIN DAIRY BUTTERS

The words "Dairy Butters" are disclaimed.
For Candy.
Claims use since 1940.

Ser. No. 555,230. The Colorado Milling & Elevator Co., Denver, Colo., doing business as The Monte Vista Flour Mills, Monte Vista, Colo. Filed Apr. 22, 1948.



The drawing is lined for red.
For Wheat Flour.
Claims use since June 7, 1897.

Ser. No. 557,564. Southern Biscuit Company, Incorporated, Richmond, Va., assignor to Weston Biscuit Company Inc., a corporation of Delaware. Filed May 21, 1948. (Sec. 2f.)

Famous Food of Virginia

Applicant claims ownership of Registrations Nos. 219,096, 220,142, and others.
For Biscuits, Crackers, Cookies, and Hard Cakes.
Claims use since Jan. 1, 1933.

Ser. No. 557,565. Southern Biscuit Company, Incorporated, Richmond, Va., assignor to Weston Biscuit Company Inc., a corporation of Delaware. Filed May 21, 1948. (Sec. 2f.)

Famous Food of Virginia

Applicant claims ownership of Registrations Nos. 219,096, 220,142, and others.
For Biscuits, Crackers, Cookies, and Hard Cakes.
Claims use since Jan. 1, 1933.

Ser. No. 572,672. Orfeo Mandrioli, North Agawam, Mass. Filed Jan. 24, 1949.



CHEFSPICE

The word "Spice" is disclaimed.
For Food Flavoring in the Form of a Powder Including Salt, Pepper, Celery, and the Like.
Claims use since Feb. 1, 1940.

Ser. No. 578,365. Blue Bar Coconut Company, Manila, P. I. Filed May 7, 1949.

BLUE BAR

For Desiccated Coconut.
Claims use since June 8, 1926; and first used in commerce among the several States and between foreign nations and the United States on June 8, 1926.

Ser. No. 585,554. Weldon Farm Products, Inc., New York, N. Y. Filed Sept. 29, 1949.

ALBA

For Nonfat Dry Milk Solids — Namely, Powdered Skimmed Milk.
Claims use since Aug. 31, 1949.

Ser. No. 587,434. J. H. Filbert, Inc., Baltimore, Md. Filed Nov. 7, 1949. (Sec. 2f as to the name "Mrs. Filbert's.")

Mrs. Filbert's
Golden Quarters

The words "Golden Quarters" are disclaimed.
For Oleomargarine.
Claims use since May 27, 1948, as shown; and since September 1933 as to the name "Mrs. Filbert's."

Ser. No. 592,022. Farmers Educational and Cooperative Union of America, Denver, Colo. Filed Feb. 6, 1950.



Applicant claims ownership of Registration No. 542,055.
For Raspberry Pancake and Waffle Syrup.
Claims use since Dec. 15, 1949.

Ser. No. 593,850. T. Apkarian & Sons, Reedley, Calif. Filed Mar. 13, 1950. (Sec. 2f.)

BEAR MOUNTAIN

For Fresh Grapes.
Claims use since August 1937.

Ser. No. 596,378. Bivar & Ca., Lda., Portimao, Portugal. Filed Apr. 19, 1950.

SARAH

Applicant claims ownership of Registration No. 230,470.
For Canned Fish.
Claims use since July 1924; and since July 1924 in commerce between foreign nations and the United States.

Ser. No. 602,660. Quality Macaroni Company, St. Paul, Minn. Filed July 29, 1950. (Sec. 2f.)

KRE-ME-KUTS

Applicant claims ownership of Registration No. 111,646.
For Macaroni.
Claims use since Mar. 14, 1916.

Ser. No. 602,768. Liquid Nitrogen Processing Corp., Elizabeth, N. J. Filed Aug. 25, 1950.

LNP

For Preserved Edible Materials—Namely, Coconut Meats, Spices, Black Pepper, White Pepper, Red Pepper, Nutmeg, Mace, Cassia, Cinnamon, Cloves, Ginger, Paprika, Turmeric, Thyme Leaves, Laurel Leaves, Marjoram Leaves, Sage Leaves, Savory, Curry Powder, Lemon Peel, Lime Peel, Anise Seed, Caraway Seed, Poppy Seed, Coriander Seed, Cardamon Seed, Celery Seed, Sesame Seed, Cumin Seed, Dill Seed, Fennel Seed, Mustard Seed, Foennegreek Seed, Saffron, Chocolate and Cocoa, Coffee, Cake Mixes, and Orange Peel.
Claims use since July 5, 1950.

Ser. No. 603,682. Hawaiian Pineapple Company, Limited, doing business as Dole Sales Company and Barron-Gray Packing Company, Honolulu, Territory of Hawaii, and San Francisco and San Jose, Calif. Filed Sept. 18, 1950. (Sec. 2f.)

EVEREADY

Applicant claims ownership of Registrations Nos. 298,310, 360,415, and 376,978.
For Canned Fruits, Canned Fruit Cocktail, and Canned Fruit Juices.
Claims use since Dec. 19, 1930.

Ser. No. 604,543. Pillsbury Mills, Inc., Minneapolis, Minn. Filed Oct. 6, 1950. (Sec. 2f.)

SOFTO

For Wheat Flour.
Claims use since Mar. 12, 1935.

Ser. No. 604,682. V. Arena & Sons, Inc., Norristown, Pa. Filed Oct. 10, 1950.

GEMELLI

The word "Gemelli" means "The Twins."
For Macaroni.
Claims use since May 1, 1949.

Ser. No. 604,945. Merle L. Alexander, Albuquerque, N. Mex. Filed Oct. 16, 1950.



The words "Nut-Burger" and the illustration of a sandwich are disclaimed. The lines are for shading only.
For Sandwiches.
Claims use since Jan. 12, 1950.

Ser. No. 606,157. S. E. Mighton Company, Bedford, Ohio. Filed Nov. 9, 1950. (Sec. 2f—Additional evidence.)

DOGGIE DINNER

For Food for Dogs, Cats, and Other Similar Animals.
Claims use since May 15, 1927.

Ser. No. 607,001. Brazil Nut Association, New York, N. Y. Filed Nov. 28, 1950. COLLECTIVE MARK.



Kernel Nut of Brazil

The words "Kernel Nut of Brazil" are disclaimed.
For Brazil Nuts.
Claims use since Sept. 28, 1950.

Ser. No. 608,488. Black Rock Corporation, Trout Lake, Wash. Filed Jan. 8, 1951.

BLACK ROCK

For Cheese.
Claims use since Dec. 4, 1950.

Ser. No. 610,276. Kotake Company, Limited, Honolulu, Territory of Hawaii. Filed Feb. 19, 1951.

CHIKARA-MOCHI

The words "Chikara-Mochi" are Japanese and mean "Strongman-Rice Cake." The word "Mochi" is disclaimed.
For Rice Cake.
Claims use since Nov. 27, 1950.

Ser. No. 610,854. Lebanon Nut Growers Cooperative, Lebanon, Oreg. Filed Mar. 5, 1951.



The drawing is lined for red and yellow but color is not claimed. The words "Autum Nut" are disclaimed.
For Unshelled Nuts.
Claims use since Oct. 1, 1950.

Ser. No. 610,855. Lebanon Nut Growers Cooperative, Lebanon, Oreg. Filed Mar. 5, 1951.

L·N·G

The drawing is lined for yellow but color is not claimed.
For Unshelled Nuts.
Claims use since September 1950.

Ser. No. 611,940. Colonial Sugars Company, Jersey City, N. J., and New Orleans, La. Filed Mar. 29, 1951.



Colonial Sugar

The word "Sugar" is disclaimed. Applicant claims ownership of Registration No. 233,807.
For Sugars.
Claims use since Sept. 15, 1950.

Ser. No. 613,907. Joseph B. Downey, doing business under the name Peppy Bits, Boston, Mass. Filed May 16, 1951.

PEPPY BITS

The word "Bits" is disclaimed. Applicant claims ownership of Registrations Nos. 275,588 and 276,288.
For Candy.
Claims use since February 1930.

Ser. No. 615,800. Steffen Dairy Foods Company, Inc., Wichita, Kans. Filed June 27, 1951.

TRIM

Applicant claims ownership of Registration No. 550,505.
For Ice Milk, the Term Ice Milk Meaning Ice Cream Which Contains Less Than 10% Butterfat.
Claims use since June 23, 1950.

Ser. No. 615,904. A. C. Sasser, doing business as A. C. "Al" Sasser Concessions, Dallas, Tex. Filed June 29, 1951.



The word "Sasser's" is disclaimed.
For Roasted Peanuts in the Shell.
Claims use since May 20, 1951.

Ser. No. 618,746. Knauf & Tesch Company, Chilton, Wis. Filed Sept. 13, 1951.

KAYTEE

For Poultry and Livestock Feeds—Namely, Pigeon Feed, Squab Feed, No-Wheat No-Corn Pigeon Feed, Iodized Pigeon Health Grit, Pigeon Vigor, Dairy Feed, Chick Starter Mash, Developing Mash, Laying Mash, Pullet Scratch, Sow and Pig Starter, Pig Feed, Sow and Pig Balancer, Calf Starter, Dairy Mineral Feed, Husky Broiler Mash, Crimped Dairy Feed, Alaska Green Peas, Mixed Pigeon Peas, Maple Peas, Small American Corn, Oats, Oat Groats, Milo, Kafir, Canary and Rape, Canary Rape Thistle, Canary Rape and Millet, Bird Dessert, Bird Ecstasy, Bird Mash, Bird Food, Parakeet and Love Bird Mixture, Parrot Seed Mixture, and Wild Game Bird Seed.
Claims use since 1920.

Ser. No. 619,517. Pioneer Growers Co-Op, Belle Glade, Fla. Filed Oct. 2, 1951.

FRONTIER

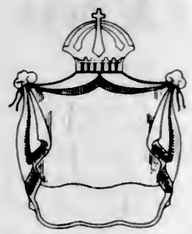
For Fresh Vegetables.
Claims use since October 1939.

Ser. No. 620,157. Florence Mitchell Hearl, Woodstock, Va. Filed Oct. 18, 1951.

FRENCH QUARTER

The word "French" is disclaimed.
For French Dressing.
Claims use since Apr. 20, 1950.

Ser. No. 621,012. Honokaa Sugar Company, Honokaa, Hamakua, Territory of Hawaii. Filed Nov. 8, 1951.



For Shelled and Salted Macadamia Nuts and Chocolate Coated Macadamia Nuts.
Claims use since Mar. 15, 1940.

Ser. No. 621,416. Otis, McAllister & Co., San Francisco, Calif. Filed Nov. 19, 1951.

FLOR de CALIFORNIA

The word "California" is disclaimed. Applicant claims ownership of Registration No. 549,573.
For Fruit Nectars Composed of Fruit Pulp, Fruit Juice, Water, and Sugar; Canned Fruits and Vegetables; and Dried Fruits.
Claims use since May 10, 1950.

Ser. No. 621,497. Automatic Canteen Company of America, Chicago, Ill. Filed Nov. 21, 1951.

Colony Club

For Candy.
Claims use since Sept. 26, 1951.

Ser. No. 621,689. Swift & Company, Chicago, Ill., doing business as Iowa Packing Company, Division of Swift & Company, Des Moines, Iowa, and as The Sperry & Barnes Company, New Haven, Conn. Filed Nov. 26, 1951.

Old Homestead

Applicant claims ownership of Registrations Nos. 87,452 and 172,461.
For Bacon, Dried Beef, Pork Shoulder Picnic, Ham, Canned Ham, Canned Chopped Pressed Ham, Canned Cured Pork Sausage, Canned Luncheon Meat, Canned Frankfurts in Brine, Canned Chopped Pressed Pork, Meat Loaf, Smoked Beef Tongue, Sausage—Namely, Braunschweiger Liver Sausage, Pork Sausage, Bologna, Frankfurts, Ham Sausage, Pork and Ham Sausage, Polish Sausage, Salami, Minced Ham Sausage; Lard, Canadian Bacon, Boneless Cured and Smoked Pork Shoulder Butt, Pork Loin Roll, Jellied Corned Beef, Corned Beef Spread, Head Cheese, Pork and Chicken Spread, Lamb Carcasses and Portions Thereof, Beef Carcasses and Portions Thereof.
Claims use since about January 1909.

Ser. No. 622,134. Van Ameringen-Haebler, Inc., New York, N. Y. Filed Dec. 5, 1951.



The shading lines which appear in the letter "A" are part of the mark. Applicant claims ownership of Registration No. 516,176.
For Food Flavoring Extract.
Claims use since Aug. 15, 1951.

Ser. No. 622,223. Pappas & Co., Mendota, Calif. Filed Dec. 7, 1951.

Golden Treat

For Fresh Melons.
Claims use since in July 1930.

Ser. No. 622,681. Swift & Company, Chicago, Ill. Filed Dec. 19, 1951.

Golden West

Applicant claims ownership of Registrations Nos. 38,575, 166,899, and 198,705.
For Butter, Shell Eggs, Frozen Egg Meats, Frozen Egg Whites, Frozen Egg Yolks, Dressed Poultry, Cheese, Pasteurized Process Cheese Spread, Pasteurized Neufchatel Cheese Spread, and Edible Vegetable Oil Used in Cooking and as a Food Ingredient.
Claims use since Oct. 14, 1907.

Ser. No. 623,814. Welch Nut & Candy Co., Chicago, Ill. Filed Jan. 19, 1952.

MR. CHIPS

The name "Mr. Chips" is fanciful. The word "Chips" is disclaimed.
For Candy.
Claims use since Dec. 24, 1951.

Ser. No. 624,373. Smithco, Inc., Peoria, Ill. Filed Jan. 31, 1952.

Totem Pole

For Ice Cream Bars.
Claims use since June 4, 1951.

Ser. No. 624,387. Booth Fisheries Corporation, Chicago, Ill. Filed Feb. 1, 1952.

SEATANG

Applicant claims ownership of Registration No. 153,124.
For Fresh and Frozen Oysters, Fresh and Frozen Clams, and Fresh and Frozen Shrimp.
Claims use since Jan. 1, 1921.

Ser. No. 625,126. Queen Charlotte Canners, Limited, Massett, Queen Charlotte Islands, British Columbia, Canada. Filed Feb. 18, 1952.

WHITE SAND

For Fresh, Frozen, and Canned Shell Fish, Canned Salmon, and Fresh, Frozen, Smoked, and Cured Fish.
Claims use since July 9, 1951.

Ser. No. 625,459. Clipper Packing & Cold Storage Co., St. Louis, Mo. Filed Feb. 25, 1952.

Sea Pass

The word "Sea" is disclaimed.
For Frozen Shrimp, Whiting, Cat Fish, Cod, Haddock, Ocean Perch, Sole, Brook Trout, Halibut, Lobster-Tails, Buffalo Fish, Swordfish, Salmon, Pompano, Frog Legs, Sunfish, and Crappie.
Claims use since Feb. 15, 1952.

Ser. No. 625,590. Golden Grain Macaroni Co., San Leandro, Calif. Filed Feb. 27, 1952.

Golden Treat

The word "Treat" is disclaimed.
For Candy.
Claims use since Jan. 9, 1952.

Ser. No. 625,799. Hartz Mountain Products, New York, N. Y. Filed Mar. 1, 1952.

HARTZ-MASTER

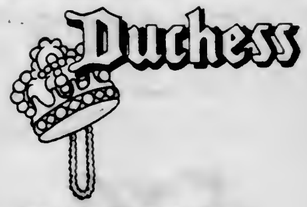
The word "Hartz" is disclaimed. Applicant claims ownership of Registrations Nos. 348,673, 315,205, and 309,717.
For Bird Feeds.
Claims use since Feb. 15, 1937.

Ser. No. 626,664. Fan Sea Foods, Inc., Seattle, Wash. Filed Mar. 19, 1952.

AGATE ISLE

For Canned Sea Foods—Namely, Shrimp, Oysters, Crab, Clams, and Tuna.
Claims use since May 1, 1950.

Ser. No. 626,910. James P. Spoto, doing business under the name and style of Northwestern Canning and Packing Company, Seffner, Fla. Filed Mar. 22, 1952.



For Canned Food for Dogs and Cats.
Claims use since June 1, 1951.

Ser. No. 627,271. Murphy Products Company, Burlington, Wis. Filed Mar. 29, 1952.

SPURON

For Hog Feed.
Claims use since Nov. 1, 1951.

Ser. No. 628,007. Johnnie R. Perez, doing business as Einnhoj Co., Dallas, Tex. Filed Apr. 12, 1952.

JOHNNIE'S



For Mexican Hot Sauce.
Claims use since July 1, 1948.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 616,251. Standard Cap and Seal Corporation, Chicago, Ill., now by change of name Standard Packaging Corporation. Filed July 9, 1951.

du·Ply

The word "Ply" is disclaimed.
For Bottle Closures Used Upon Milk Bottles.
Claims use since July 1, 1951.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 567,070. Coty, Inc., New York, N. Y. Filed Oct. 16, 1948. (Sec. 2f—Additional evidence.)

PARIS

For Perfumes, Toilet Waters, Sachet in Powdered Form, Brilliantine Solid and Liquid, Dusting Powder, Face Powder, Bath Salt, Talcum Powder.
Claims use since November 1921.

Ser. No. 593,718. Ezo Products Company, also known as Ezo Products Co., Philadelphia, Pa. Filed Mar. 10, 1950.

EZO

Applicant claims ownership of Registration No. 415,195.
For Denture Cleaning Powder.
Claims use since on or about July 25, 1949.

Ser. No. 598,245. Helene Curtis Industries, Inc., Chicago, Ill. Filed May 27, 1950.

Spray net

The word "Spray" is disclaimed.
For Wave Setting Lotion.
Claims use since Apr. 1, 1950.

Ser. No. 599,528. House of Proktol, Inc., Newark, N. J. Filed June 21, 1950.



The stippling on the drawing is for decorative purposes only and not intended to represent color.
For Hair Dyes.
Claims use since May 8, 1950.

Ser. No. 604,403. Stanley Home Products, Inc., Westfield, Mass. Filed Oct. 3, 1950.



The words "A Stanley Home Product" is disclaimed.
For Tooth Powders, Tooth Pastes, Scented Crystals for Creating Bubbles in a Bath, Foot Lotion, Dental Plate Cleaning Compositions, Mouth Washes, and Face Cream.
Claims use since Mar. 22, 1950.

Ser. No. 612,695. Judson Laboratories, Inc., Cockeysville, Md. Filed Apr. 16, 1951.

K-R-L

For Hair Curling Solution and a Solution for Neutralizing the Curling Solution.
Claims use since July 18, 1950.

Ser. No. 624,883. Gillette Safety Razor Company, Boston, Mass., now by change of name The Gillette Company. Filed Feb. 13, 1952.

Rain or Shine

For Hair Dressing and Hair Spray.
Claims use since Jan. 17, 1952.

Ser. No. 625,250. Elizabeth Arden Sales Corporation, New York, N. Y. Filed Feb. 20, 1952.

JACK IN THE BOX

For Perfumes, Toilet Water, and Eau de Cologne.
Claims use since Jan. 4, 1950.

Ser. No. 625,426. Lenthéric, Incorporated, New York, N. Y. Filed Feb. 23, 1952.

DEEP FREEZE

For Solid Preparations of Eau de Cologne.
Claims use since Feb. 6, 1952.

Ser. No. 625,484. O'Neil, Larson & McMahon, doing business under the style name of Nil-O-Nal Co., Chicago, Ill. Filed Feb. 25, 1952.

NIL·O·NAL

For Hair Dressing and Conditioning Preparation.
Claims use since Jan. 17, 1952.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 512,996. Creme Simon, Anciennement J. Simon & Cie, Societe Anonyme, Lyon, France. Original filed, act of 1905, Nov. 21, 1946; amended to application under act of 1946, Principal Register, May 7, 1949. (Sec. 2f.)



The wording "Derouter les contrefacons en exigeant la signature"; "Savon" and "Paris-Lyon, France" is disclaimed. The translation of the words "Derouter les contrefacons en exigeant la signature" is: "To avoid counterfeits insist on the signature." The signature shown in the drawing is the facsimile signature of J. Simon, the founder of applicant's business. Applicant claims ownership of French Registration No. 20,281, dated July 16, 1937.
For Toilet Soaps.
Claims use since 1883 in France and in commerce between France and the United States since 1889.

Ser. No. 581,709. Robert H. Cromwell, Jr., doing business as Glo-Co Company, Inc., Los Angeles, Calif. Filed July 9, 1949.

Glo-co

For Toilet Soap.
Claims use since 1940.

Ser. No. 582,175. Lucien Lelong, Inc., Chicago, Ill. Filed July 19, 1949. (Sec. 2f—Additional evidence.)

LELONG

Applicant claims ownership of Registrations Nos. 233,368, 233,371, and others.
For Toilet Soaps.
Claims use since June 24, 1949.

Ser. No. 589,140. Henri Bendel, Inc., New York, N. Y. Filed Dec. 10, 1949.

LAUNDEL

For Detergent for Use on Articles Made of Nylon, Silk, Linen, Cotton, and/or Wool.
Claims use since Nov. 10, 1949.

Ser. No. 593,363. Odorite Sanitation Service of Baltimore, Inc., Baltimore, Md. Filed Mar. 3, 1950.

TIRE-X

The word "Tire" is disclaimed.
For Tire Cleaner.
Claims use since June 1, 1949.

Ser. No. 601,478. Chester Whitfield Smith, doing business under the name of Whitfield Chemical Company, Detroit, Mich. Filed July 29, 1950.

POWRITE

For Powdered Cleaning Agent for Use in Power Operated Washing Equipment.
Claims use since July 15, 1949.

Ser. No. 612,324. The Hewitt Soap Company, Inc., Dayton, Ohio. Filed Apr. 6, 1951.

EZY DAY

Applicant claims ownership of Registration No. 286,888.
For Sudsing Cleaner, Cleanser, and Detergent.
Claims use since Sept. 10, 1930.

Ser. No. 612,923. Richard A. Malmstrom, doing business as N. I. Malmstrom & Company, Brooklyn, N. Y. Filed Apr. 20, 1951.

LANOMAL

For Powdered Lanolin Soap.
Claims use since Apr. 4, 1951.

Ser. No. 620,754. Clarence P. Taylor, Manhattan Beach, Calif. Filed Oct. 31, 1951.

SKUM-X

The word "Skum" is disclaimed.
For Cleaning Powder for Drawings.
Claims use since July 31, 1941.

Ser. No. 622,435. Godefroy Manufacturing Company, St. Louis, Mo. Filed Dec. 13, 1951. (Sec. 2f.)

OYLOFF

Applicant claims ownership of Registration No. 293,570.
For Hair Lotion Designated as a Dry Shampoo.
Claims use since June 1929.

SERVICE MARKS

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 575,531. Hyland Electrical Supply Co., Chicago, Ill. Filed Mar. 16, 1949.

Women's Magazine of the Air

For Entertainment and Advertising Services Rendered on Behalf of Others To Advertise Their Goods and Services, Through the Medium of Shows, Programs or Productions Broadcast by Television and Radio Which Comprise Dramatization, Demonstration, and Description Pertaining to Women's Interests, on Subjects Such as Beauty Tips, Diet, Home Economics, News and Fashion Shows.
Claims use since Jan. 10, 1949.

Ser. No. 620,455. Anderson-Nichols & Company, Boston, Mass. Filed Oct. 25, 1951. (Sec. 2f.)

ANDERSON-NICHOLS

For Coordinated Technical Services to Management in Setting Up Methods, Standards, and Labor Incentive Plans, in Formulating Production and Inventory Control Systems; in Improving Clerical Methods and Cost Accounting Systems; and in Devising Industrial Relation Programs.
Claims use since Jan. 1, 1929.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 610,679. Gerstley, Sunstein & Co., Philadelphia, Pa. Filed Mar. 1, 1951.



For Rendering Investment Advisory Service Wherein Recommendations Are Made as to the Purchase and Sale of Securities Based Upon Research Which Comprises a Statistical Method of Continuing Analysis of Securities and Investments.
Claims use since June 2, 1950.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 591,555. Brownie Weavers, Toledo, Ohio. Filed Jan. 27, 1950.

"BROWNIE WEAVERS"

The word "Weavers" is disclaimed.
For Reweaving and Repairing Cloth Such as Garments, Upholstery, and the Like.
Claims use since August 1948.

Ser. No. 620,791. Southern Fur Service, Inc., Atlanta, Ga. Filed Nov. 1, 1951.



For Cleaning of Furs and Fur Trimmed Garments.
Claims use since September 1951.

Ser. No. 621,320. Walter Kidde & Company, Inc., Belleville, N. J. Filed Nov. 16, 1951.



Applicant claims ownership of Registrations Nos. 334,376, 406,325, and others.
For Fire Protection Engineering Service, Comprising Installation, Inspection and Maintenance of Equipment and Installations for Protection Against Fire.
Claims use since September 1944.

Ser. No. 629,119. Permagrain Corporation, Miami, Fla. Filed May 2, 1952.

permagrain

For Refinishing and Restyling Old and Used Furniture
Claims use since on or about May 1, 1951.

CLASS 106

MATERIAL TREATMENT

Ser. No. 624,415. Morgan Steel Products, Inc., Cleveland, Ohio. Filed Feb. 1, 1952.



FABRICATOR FRANK

The word "Fabricator" is disclaimed.
For Custom Fabrication to Order of Industrial Steel Products.
Claims use since May 1948.

Ser. No. 624,582. Apollo Metal Works, Chicago, Ill. Filed Feb. 6, 1952.

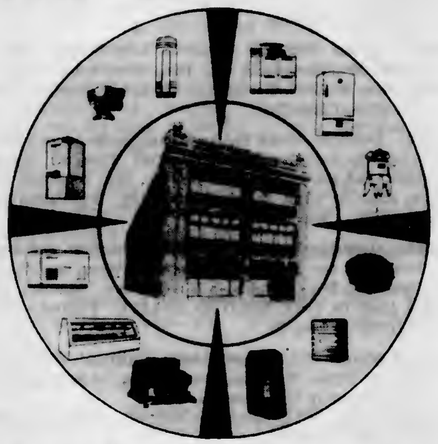
ABSOPLANE

For Treating, for Others, Metallic Sheets, Plates, Coils, and the Like To Provide Either a Polished Surface or a Smooth or Rough Ground Surface and Gradations Therebetween, Which Surfaces Are Uniformly Planished to a High Accuracy.
Claims use since July 1951.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 585,170. Industrial Trades Institute, Atlanta, Ga. Filed Sept. 22, 1949.



The representation of the goods is disclaimed.
For Instruction in the Practical Trades—Namely, Electrical Appliances and Controls, Domestic and Commercial Refrigeration, Air Conditioning, and Automatic Heating.
Claims use since Apr. 1, 1949.

Ser. No. 607,856. Joseph Friend, Philadelphia, Pa. Filed Dec. 19, 1950.

CAVALIERS

For Musical Entertainment Services Through the Medium of an Instrumental Band.
Claims use since Aug. 30, 1949.

Ser. No. 621,171. The Shipstads and Johnson Ice Follies, Los Angeles, Calif. Filed Nov. 13, 1951.

THE JERKS

For Entertainment Services in the Nature of Ice Skating Exhibitions.
Claims use since Sept. 6, 1951.

Ser. No. 622,894. The Billy Graham Evangelistic Association, Inc., Minneapolis, Minn. Filed Dec. 27, 1951.

Billy Graham

The consent of "Billy Graham" is of record.
For Religious Educational Services — Namely, the Teaching of Religious Doctrines and Gospel.
Claims use since Jan. 1, 1946.

TRADE-MARK REGISTRATIONS GRANTED
ACT OF 1946, PRINCIPAL REGISTER

563,986. Paint Sold in Liquid Form. Patek Brothers, Inc., Milwaukee, Wis.
Filed Aug. 19, 1947, Serial No. 531,824. Published June 24, 1952. Class 16.

563,987. Canned Vegetables. John W. Taylor Packing Company, Inc., Hallwood, Va.
Filed Sept. 16, 1947, Serial No. 534,693. Published June 24, 1952. Class 46.

563,988. Flat Glass. Blue Ridge Glass Corporation, Kingsport, Tenn.
Filed Sept. 19, 1947, Serial No. 534,988. Published May 27, 1952. Class 33.

563,989. Syringes and Needles Made for Hypodermic and Other Medical and Surgical Uses; Clinical Thermometers; and Blood Pressure Apparatus—Namely, Sphygmomanometers. Becton Dickinson and Company, Rutherford, N. J.
Filed Oct. 24, 1947, Serial No. 538,859. Published June 10, 1952. Class 44.

563,990. Meat Products—Namely, Sugar Cured Hams. Albert F. Goetze, Incorporated, Baltimore, Md.
Filed Nov. 19, 1947, Serial No. 541,667. Published June 24, 1952. Class 46.

563,991. Finger Rings. Granat Bros., San Francisco, Calif.
Filed Dec. 2, 1947, Serial No. 542,934. Published May 27, 1952. Class 28.

563,992. Clarinets, Trumpets, Cornets, Accordions, Trombones, Oboes, Flutes, and Piccolos. H. & A. Selmer, Incorporated, Elkhart, Ind.
Filed Dec. 3, 1947, Serial No. 543,227. Published July 1, 1952. Class 36.

563,993. Wood or Steel Office Furniture—Namely, Desks, Chairs, Tables, Filing Cabinets, Card Index Trays and Cases, Portable Ledger Supports, Adjustable Book Supports. The McBee Company, Athens, Ohio.
Filed Dec. 6, 1947, Serial No. 543,634. Published July 1, 1952. Class 32.

563,994. Boys' and Youths' Sport and Dress Shirts and Pajamas. The Marlan Company, Philadelphia, Pa.
Filed Dec. 26, 1947, Serial No. 545,502. Published June 17, 1952. Class 39.

563,995. Boys' and Youths' Sport and Dress Shirts and Pajamas. The Marlan Company, Philadelphia, Pa.
Filed Dec. 26, 1947, Serial No. 545,503. Published June 17, 1952. Class 39.

563,996. Liquid Plastic Surface Sealer for Use on Linoleum and Hardwood Floors. Plastikon-Western, Inc., San Francisco, Calif.
Filed Mar. 25, 1948, Serial No. 553,014. Published June 24, 1952. Class 16.

563,997. Power Driven Circular Saws Which Are Ground With Side Clearance To Give a Smooth Cut and the Teeth of Which Are Not Spring Set or Swaged. California Saw Works, San Francisco, Calif.
Filed Apr. 5, 1948, Serial No. 553,814. Published May 20, 1952. Class 23.

563,998. Medicinal Preparation Known as an Antiseptic Antiphlogistic Preparation in Tablet Form. Pancho Nakasheff, doing business as Pantcho Nakasheff, P. Nakasheff and Pharmacy P. Nakasheff, Round Hill Farm, R. F. D. 2, Monroe, N. Y.
Filed Apr. 17, 1948, Serial No. 554,917. Published Sept. 13, 1949. Class 18.

563,999. Shaft Driven Machines for Cleaning Bituminous Coal by Sand Flotation. United Engineers & Constructors Inc., Philadelphia, Pa.
Filed Apr. 19, 1948, Serial No. 555,030. Published May 20, 1952. Class 23.

564,000. Glazier's Putty, Asphalt for Roofing, Flooring and Driveways, Liquid Tar for Roofing and Roof Patching, Etc. Armstrong Paint & Varnish Works, Chicago, Ill.
Filed May 3, 1948, Serial No. 556,056. Published June 17, 1952. Class 12.

564,001. Loom Supplies—Namely, Lug Straps. E. H. Jacobs Manufacturing Co., Inc., Danielson, Conn.
Filed June 8, 1948, Serial No. 558,724. Published May 13, 1952. Class 23.

564,002. Overalls, Work Shirts, Coats, Jackets, and Pants Primarily for Men but Sometimes Worn by Women, Girls, and Boys. Oshkosh B'Gosh, Inc., Oshkosh, Wis.
Filed June 10, 1948, Serial No. 558,919. Published June 17, 1952. Class 39.

564,003. Overalls, Work Shirts, Coats, Jackets, and Pants Primarily for Men but Sometimes Worn by Women, Girls, and Boys. Oshkosh B'Gosh, Inc., Oshkosh, Wis.
Filed June 10, 1948, Serial No. 558,921. Published June 17, 1952. Class 39.

564,004. Forest Products—Namely, Railroad Ties, Posts, Pilings, Poles, Sleepers, Shores, Etc. American Lumber & Treating Co., Chicago, Ill.
Filed June 11, 1948, Serial No. 558,987. Published June 17, 1952. Class 12.

564,005. Forest Products—Namely, Railroad Ties, Posts, Pilings, Poles, Sleepers, Shores, Planking, Joists, Beams, Siding, Etc. American Lumber & Treating Co., Chicago, Ill.
Filed June 11, 1948, Serial No. 558,988. Published June 17, 1952. Class 12.

564,006. Canned Mackerel, Canned Bonito, and Canned Yellowtail. South Coast Fisheries, Inc., Terminal Island, Calif.
Filed Aug. 10, 1948, Serial No. 563,138. Published May 27, 1952. Class 46.

564,007. Glass Salt and Pepper Shaker Sets. Luce Manufacturing Company, Groton, Vt., assignee of Richard W. Luce, doing business as Luce Manufacturing Co.
Filed Sept. 4, 1948, Serial No. 564,728. Published May 20, 1952. Class 33.

564,008. Pressure Regulator Safety Devices—Namely, Feed Water Regulators, Pressure Regulators, Damper Regulator Valves, Reducing Valves, Relief Valves, Pressure and Vacuum Valves, Boiler Water Feeders, and Low Water Cut-Offs. Watts Regulator Co., Lawrence, Mass.
Filed Sept. 27, 1948, Serial No. 565,985. Published June 24, 1952. Class 13.

564,009. Sterling Silver Flat Tableware. Oneida Ltd., Oneida and Sherrill, N. Y.
Filed Oct. 5, 1948, Serial No. 566,470. Published May 20, 1952. Class 28.

564,010. Overhead Transportation Syatems—Namely, Tramways and Parts Thereof. The Forker Corporation, Cleveland, Ohio.
Filed Oct. 11, 1948, Serial No. 566,797. Published May 27, 1952. Class 23.

564,011. Cabinets and Structural Cabinet Parts for Storage and Filing Purposes. Standardizd Products Company, Chicago, Ill.
Filed Oct. 29, 1948, Serial No. 567,889. Published June 24, 1952. Class 32.

564,012. Stainless Steel Mixing Bowls, Fruit Bowls, Baking Sheets, and Saute Pans. C C Manufacturing Co., Chicago, Ill.
Filed Nov. 19, 1948, Serial No. 569,079. Published July 1, 1952. Class 13.

564,013. Industrial Rolls and Reels; Water Controlling Apparatus, Etc. Rodney Hunt Machine Co., Orange, Mass., by change of name from Rodney Hunt Machine Company.
Filed Nov. 27, 1948, Serial No. 569,520. Published May 13, 1952. Class 23.

564,014. Identification Bracelets and Necklaces. Miglo Jewelry Co., Inc., New York, N. Y.
Filed Dec. 3, 1948, Serial No. 569,878. Published May 27, 1952. Class 28.

564,015. Prefabricated Metal Construction Members—Namely, Doors, Panels, and the Necessary Fasteners and Attachments Sold as a Complete Unit To Be Used in Making Permanent Type Toilet, Cubicle, and Dressing Room Compartments or Enclosures. Henry Weis Manufacturing Company, Elkhart, Ind.
Filed Dec. 30, 1948, Serial No. 571,374. Published June 17, 1952. Class 12.

564,016. Jewelry for Personal Wear Not Including Watches—Namely, Bracelets, Wrist-Bands, Finger Rings, Wedding Bands, and Brooches. Delta Jewelry Corporation, New York, N. Y.
Filed Jan. 12, 1949, Serial No. 572,022. Published May 27, 1952. Class 28.

564,017. Trunks, Suit Cases, Wardrobe Cases, Victor'a Cases, Boston Bags, Etc. Arthur Gilmore, Inc., New York, N. Y.
Filed Feb. 26, 1949, Serial No. 574,579. Published June 24, 1952. Class 3.

564,018. Wood Flooring and Millwork—Namely, Flooring, Trim, Mouldings, and Treads. Miller Brothers Company, Johnson City, Tenn.
Filed Feb. 28, 1949, Serial No. 574,634. Published June 17, 1952. Class 12.

564,019. Men's Suits and Outer Shirts. Jordan Marsh Company, Boston, Mass.
Filed Apr. 21, 1949, Serial No. 577,487. Published June 3, 1952. Class 39.

564,020. Anti-Freeze. California Chemical Compounds Inc., Los Angeles, Calif.
Filed May 10, 1949, Serial No. 578,486. Published June 17, 1952. Class 6.

564,021. Fishing Tackle, To-Wit, Gaff Hooks and Landing Nets. John Gronek, doing business under the name and style of Alliance Manufacturing, Chicago, Ill.
Filed July 1, 1952, Serial No. 578,593. Published July 1, 1952. Class 22.

564,022. Toppings for Ice Cream Sundaes and Sodas—Namely, Fruit Flavored Sirups, Etc. H. C. Schranck Company, Milwaukee, Wis.
Filed May 11, 1949, Serial No. 578,638. Published June 17, 1952. Class 46.

564,023. Canned Vegetables—Namely, Canned Green Beans, Canned Wax Beans, Canned Sweet Peas, and Canned Tomatoes. John J. Pieri, executor of the estate of Joseph G. Pieri, deceased, doing business as J. G. Pieri Company, Buffalo, N. Y.
Filed May 18, 1949, Serial No. 579,068. Published June 17, 1952. Class 46.

564,024. Cradle Telephone Accessory in the Nature of a Receiver Rest and Ash Tray. Tele-Tray Corporation, Cleveland, Ohio.
Filed June 3, 1949, Serial No. 579,951. Published June 24, 1952. Class 21.

564,025. Sealing Devices for Flight Conveyors—Namely, Tubular Constriction Apparatus Inserted in the Flight Conveyor Conduit, Etc. Hapman Conveyors, Inc., Detroit, Mich.
Filed June 10, 1949, Serial No. 580,240. Published Apr. 29, 1952. Class 23.

564,026. Sheet Plastic, Resinous, Translucent Material Suitable for Use in the Manufacture of Clothing. Coffey-Hoyt Products, Inc., Gardena, Calif.
Filed July 18, 1949, Serial No. 582,126. Published May 20, 1952. Class 1.

564,027. Necklaces, Bracelets, Finger Rings, Jewelry Clips, Key Chains, Brooches, and Earrings, Made in Whole of, in Part of, or Plated With Precious Metal, and Some Precious Gems. Delma Mfg. Co., Inc., Providence, R. I., and New York, N. Y.
Filed July 25, 1949, Serial No. 582,470. Published May 20, 1952. Class 28.

564,028. Olive Oil and Canned Tomatoes. Olive Oil Industry, Inc., New York, N. Y.
Filed Aug. 8, 1949, Serial No. 583,169. Published June 17, 1952. Class 46.

564,029. Lumber and Plywood. Associated Plywood Mills, Inc., Eugene, Oreg.
Filed Sept. 2, 1949, Serial No. 584,381. Published June 17, 1952. Class 12.

564,030. Work Gloves Made of Combination Leather and Fabric. Jasper Glove Company, Inc., Jasper, Ind.
Filed Sept. 20, 1949, Serial No. 585,150. Published May 20, 1952. Class 39.

564,031. Electric Motors, Solenoids, Radio Receivers, Radio Transmitters, and Combination Radio Receivers and Transmitters. Air Associates, Inc., Teterboro, N. J.
Filed Oct. 4, 1949, Serial No. 585,734. Published June 24, 1952. Class 21.

564,032. Television Receiving Sets and Parts Thereof—Namely, Coils and Transformers. Leonard Sherman, trading under the name Leonard's Hardware, Philadelphia, Pa.
Filed Oct. 7, 1949, Serial No. 585,955. Published June 24, 1952. Class 21.

564,033. Cuff Links, Tie Holders, Key Chains, and Shirt Studs, Made in Part of, or Plated With Precious Metal. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Filed Oct. 11, 1949, Serial No. 586,090. Published May 27, 1952. Class 28.

564,034. Children's Dresses. Jack L. Honig, Inc., New York, N. Y.
Filed Oct. 13, 1949, Serial No. 586,243. Published June 24, 1952. Class 39.

564,035. Germicidal Dishwashing and Glass Washing Composition. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Nov. 5, 1949, Serial No. 587,414. Published Aug. 14, 1951. Class 52.

564,036. Aeroporotomy Type of Apparatus Used for Sucking Out or Extracting Mucus From the Bronchi and Similar Operations. U. M. A. Inc., New York, N. Y.
Filed Nov. 9, 1949, Serial No. 587,570. Published June 17, 1952. Class 44.

564,037. Barber Shop and Beauty Shop Equipment, Etc. Emil J. Paidar Company, Chicago, Ill.
Filed Nov. 30, 1949, Serial No. 588,592. Published July 1, 1952. Class 32.

564,038. Pinking Shears. Metroloy Corporation, New Rochelle, N. Y., assignor, by mesne assignments, to Metroloy Corporation, New Rochelle, N. Y., a corporation of Delaware.
Filed Dec. 14, 1949, Serial No. 589,325. Published May 13, 1952. Class 23.

564,039. Concrete Aggregate Blocks. Eugene Leipold, Milwaukee, Wis.
Filed Dec. 23, 1949, Serial No. 589,857. Published Nov. 27, 1951. Class 12.

564,040. Men's Topcoats and Overcoats. Kingston Clothing Co., Boston, Mass.
Filed Dec. 30, 1949, Serial No. 590,162. Published June 17, 1952. Class 39.

564,041. File Card Boxes. Lawson Cordial Co., Newtown, Conn.
Filed Jan. 5, 1950, Serial No. 590,374. Published July 1, 1952. Class 32.

564,042. Men's Coats, Suits, and Overcoats. Peter Morton Leisurewear, Inc., New York, N. Y.
Filed Jan. 12, 1950, Serial No. 590,752. Published June 17, 1952. Class 39.

564,043. Clarinets, Oboes, Bassoons, Bass Clarinets, Alto Clarinets, Flutes, Piccolos, Cornets, Trumpets, Trombones, Altos, Mellophones, French Horns, Sousaphones, Saxophones, and Bugles. Jules M. Sahlein, trading as J. M. Sahlein Music Co., San Francisco, Calif.
Filed Feb. 3, 1950, Serial No. 591,957. Published July 1, 1952. Class 36.

564,044. Coal. Weston Dodson & Co., Inc., Bethlehem, Pa.
Filed Feb. 13, 1950, Serial No. 592,401. Published June 17, 1952. Class 1.

564,045. Children's Folding Toilet Seats. General American Transportation Corporation, Chicago, Ill.
Filed Feb. 23, 1950, Serial No. 592,900. Published June 24, 1952. Class 13.

564,046. Men's Wearing Apparel, Sportswear, and Haberdashery—Namely, Work, Dress, and Negligee Shirts, Neckties, Collars, and Cuffs, Underwear, Etc. National Shirt Shops of Delaware, Inc., New York, N. Y.
Filed Feb. 23, 1950, Serial No. 592,923. Published June 17, 1952. Class 39.

564,047. Powdered Hand Soap. The Chemical Corporation, Springfield, Mass.
Filed Mar. 1, 1950, Serial No. 594,421. Published June 3, 1952. Class 52.

564,048. Men's Suits and Topcoats. The Suit Shop, Washington, D. C.
Filed Mar. 24, 1950, Serial No. 594,593. Published June 17, 1952. Class 39.

564,049. Car Polishes, Polishes for Painted and Enameled Surfaces, Polishes for Plastics, Polishing Rouge, Silicate of Carbide Abrasives, and Abrasive Powders. Imperial Chemical Industries Limited, London and Millbank, London, England.
Filed Mar. 28, 1950, Serial No. 594,776. Published June 17, 1952. Class 4.

564,050. Ash Stands. Compco Corporation, Chicago, Ill.
Filed Mar. 31, 1950, Serial No. 594,953. Published July 1, 1952. Class 32.

564,051. Carpet Anchoring Device in the Form of Plywood Strips Penetrated With a Double Row of Pins for Holding Carpet in Position on Floors. The Roberts Co., Los Angeles, Calif.
Filed Apr. 1, 1950, Serial No. 595,094. Published June 24, 1952. Class 13.

564,052. Textile Equipment Comprising Harness Frames, Steel Heddles, and Drop Wires. H. J. Theiler Corporation, Whitinsville, Mass.
Filed Apr. 10, 1950, Serial No. 595,521. Published May 13, 1952. Class 23.

564,053. Solvent Preparation, One of the Important Uses of Which Is To Remove Foreign Matter From Vehicle Carburetors. Pennsylvania Refining Company, Butler, Pa.
Filed Apr. 26, 1950, Serial No. 596,358. Published June 17, 1952. Class 52.

564,054. Strings for Violins, Violas, Violoncellos, Double Basses, Tango Banjos, Harps, Guitars, Banjos, Mandolins, Mandolas, Zithers, Mandocellos, and Bandurrias. National Musical String Co., New Brunswick, N. J.
Filed May 11, 1950, Serial No. 597,286. Published July 1, 1952. Class 36.

564,055. Men's and Boys' Jackets, Sports Jackets, Coats, Overcoats, Surcoats, Pants, Slacks, Dress Shirts, Sport Shirts, Lumber Jackets, Polo Shirts, Suits, Undershirts, and Underdrawers. Pilgrim Sports & Work Apparel Manufacturers, Inc., New York, N. Y.
Filed May 13, 1950, Serial No. 597,412. Published June 17, 1952. Class 39.

564,056. Underwear for Infants, Children, Men, and Women, Etc. Gibbs Underwear Company, Philadelphia, Pa.
Filed May 15, 1950, Serial No. 597,439. Published June 17, 1952. Class 39.

564,057. Antibiotic Preparation for Topical Use. Chas. Pfizer & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc., a corporation of Delaware.
Filed June 22, 1950, Serial No. 599,581. Published May 27, 1952. Class 18.

564,058. Jewelry for Personal Wear, Not Including Watches—Namely, Shoe Buckles and Ornamental Pins and Pendants, All Made of or Plated With Precious Metals. F. Ronci Co., Inc., Centerdale, R. I.
Filed July 22, 1950, Serial No. 601,120. Published May 27, 1952. Class 28.

564,059. Canned Fruits and Vegetables, Marmalades and Jams, and Canned Meats—Namely, Pig Knuckles, Ox Tongue, Jugged Hare, Sausages, and Potted Meats. Conserves Hero Lenzbourg, Lenzbourg, Switzerland.
Filed July 25, 1950, Serial No. 601,199. Published June 17, 1952. Class 46.

564,060. Sporting Apparatus for Projecting Articles Consisting of a Support to Which Is Attached Stretchable Means by Which an Arrow or Other Like Object May Be Projected Therefrom. Edson P. Foster, Manitowoc, Wis.
Filed Aug. 3, 1950, Serial No. 601,666. Published June 24, 1952. Class 22.

564,061. Watches—Namely, Wrist or Strap Watches. Bulova Watch Company, Inc., New York, N. Y.
Filed Aug. 26, 1950, Serial No. 602,797. Published May 27, 1952. Class 27.

564,062. Electric Garbage Disposal Units for Kitchen Drain Outlets. J. N. Ceazan Company, Los Angeles, Calif.
Filed Aug. 26, 1950, Serial No. 602,799. Published June 17, 1952. Class 21.

564,063. Hickory, Ash, Dogwood, and Persimmon Tool Handles. Charles D. Roberts Company, Greensboro, N. C.
Filed Aug. 29, 1950, Serial No. 602,914. Published May 13, 1952. Class 23.

564,064. Hand-Operated Sprayers, Used for Spraying Fly Oils, DDT Solutions, Insecticides, Disinfectants, and Deodorants. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed Sept. 1, 1950, Serial No. 603,060. Published Apr. 29, 1952. Class 23.

564,065. Electrical Heating Core and Shell for Heating and Expanding Plastic Ophthalmic Frames. American Optical Company, Southbridge, Mass.
Filed Sept. 9, 1950, Serial No. 603,350. Published June 24, 1952. Class 21.

564,066. Animal Training Paddles. Anspat Co., Fallbrook, Calif.
Filed Sept. 12, 1950, Serial No. 603,428. Published June 24, 1952. Class 3.

564,067. Brushes for Painting, Varnishing, or Applying Liquids. Whiting-Adams Company, Inc., Boston, Mass.
Filed Sept. 22, 1950, Serial No. 603,907. Published June 24, 1952. Class 29.

564,068. Suitcases, Overnight Cases, Pullman Cases, Valises, and Satchels. Firman Leather Goods Corp., New York, N. Y.
Filed Sept. 23, 1950, Serial No. 603,919. Published June 24, 1952. Class 3.

564,069. Electrical Apparatus—Namely, Electrical Space Heaters, Electrical Immersion Heaters, Electrically Heated Cooking Pots, Pans, Kettles, Percolators, and Waffle Irons. Theodor Stiebel, Holzminden (Weser), Germany.
Filed July 22, 1950, Serial No. 604,507. Published June 24, 1952. Class 21.

564,070. Mops. The New York Association for the Blind, Inc., New York, N. Y.
Filed Nov. 7, 1950, Serial No. 606,041. Published May 13, 1952. Class 29.

564,071. Hearing Aid Accessory in the Form of a Microphone Carrying Adaptor, Etc. Janvier F. O'Hara, Monrovia, Calif.
Filed Nov. 13, 1950, Serial No. 606,316. Published May 27, 1952. Class 44.

564,072. Degreasing and Drying Solvents for the Cleaning and Spot-Free Drying of All Kinds of Metal Parts, Costume Jewelry, and Similar Articles. Detrex Corporation, Detroit, Mich.
Filed Nov. 21, 1950, Serial No. 606,699. Published June 17, 1952. Class 52.

564,073. Sanitary Napkins and Sanitary Belts or Supporters. Swansdown Sanitary Garment Company, Incorporated, Detroit, Mich.
Filed Nov. 21, 1950, Serial No. 606,735. Published June 3, 1952. Class 44.

564,074. Line of Medicinal, Veterinary, and Pharmaceutical Preparations—Namely, Analgesics, Antipyretics, Antiseptics, Anti-Rheumatics, Anaesthetics, Dietary Sugar Substitutes, and Collodion for External Use. Aktiebolaget Bofors, Bofors, Sweden.
Filed Nov. 25, 1950, Serial No. 606,929. Published May 20, 1952. Class 18.

564,075. Mole, a Mexican Dish Consisting of Red Pepper and Seasoning; Etc. Maria Pons Nicoux de Degetau, trading as Productos Marpe, San Luis Potosi, S. L. P., Mexico.
Filed Dec. 8, 1950, Serial No. 607,435. Published June 24, 1952. Class 46.

564,076. Stocks and Dies, and Screw Plates Being Particularly Sets of Hand Tools for Threading. Greenfield Tap and Die Corporation, Greenfield, Mass.
Filed Dec. 11, 1950, Serial No. 607,548. Published May 13, 1952. Class 23.

564,077. Grooved Phonograph Records. Tops Recording Company, Inc., Los Angeles, Calif., assignor to Tops Music Enterprises, a partnership consisting of Sam Dickerman and Carl Doshay, copartners.
Filed Jan. 5, 1951, Serial No. 608,440. Published July 1, 1952. Class 36.

564,078. Precast, Molded and Reinforced Concrete Building Blocks; and Deck, Floor, Curb and Cribbing Slabs Used in the Construction of Bridges, Grandstands, Bleachers, and Stadiums. Universal Concrete Pipe Company, Columbus, Ohio.
Filed Jan. 12, 1951, Serial No. 608,724. Published May 13, 1952. Class 12.

564,079. Pressure Tank Fire Prevention Sprinkler Systems Comprised of Pressure Tanks, Piping, Valves, Sprinklers, and Controls Therefor, Sold as a Unit. "Automatic" Sprinkler Corporation of America, Youngstown, Ohio.
Filed Jan. 17, 1951, Serial No. 608,849. Published July 1, 1952. Class 13.

564,080. Pressure Tank Fire Prevention Sprinkler Systems Comprised of Pressure Tanks, Piping, Valves, Sprinklers, and Controls Therefor, Sold as a Unit. "Automatic" Sprinkler Corporation of America, Youngstown, Ohio.
Filed Jan. 17, 1951, Serial No. 608,856. Published July 1, 1952. Class 13.

564,081. Dry Cells, Dry Cell Batteries, and Battery Packs. Specialty Battery Company, Madison, Wis.
Filed Jan. 22, 1951, Serial No. 609,106. Published July 1, 1952. Class 21.

564,082. Musical Game Consisting of a Card With Printed Song Titles Thereon and as a Tune Is Played, the Card Is Punched or Suitably Marked To Indicate the Respective Title of the Song. Thomas Gaetan Williams, Tampa, Fla.
Filed Jan. 25, 1951, Serial No. 609,268. Published June 24, 1952. Class 22.

564,083. Finger Rings. Fairfax Distributing Co., Inc., Washington, D. C.
Filed Jan. 26, 1951, Serial No. 609,290. Published May 27, 1952. Class 28.

564,084. Magnetic Sound Recording Film. Reeves Soundcraft Corp., New York, N. Y.
Filed Jan. 26, 1951, Serial No. 609,317. Published June 17, 1952. Class 21.

564,085. Chrome Polish. Eugene Fish, doing business under the trade name Perma-Chrome Company, Baltimore, Md.
Filed Feb. 5, 1951, Serial No. 609,640. Published June 17, 1952. Class 4.

564,086. Primary and Secondary Batteries. Societe des Accumulateurs Fixes & de Traction (Société Anonyme), Romainville, Seine, France.
Filed Feb. 14, 1951, Serial No. 610,106. Published June 24, 1952. Class 21.

564,087. Piece Goods (Including Faille) of Silk, and/or Rayon. Verney Corporation, Manchester, N. H.
Filed Jan. 18, 1951, Serial No. 610,247. Published June 24, 1952. Class 42.

564,088. Modeling Clay. American Art Clay Company, Indianapolis, Ind.
Filed Feb. 19, 1951, Serial No. 610,251. Published June 10, 1952. Class 1.

564,089. Perfume, Toilet Water, Dusting Powder and Bath Oil. Cassell Products Inc., New York, N. Y.
Filed Feb. 19, 1951, Serial No. 610,255. Published May 20, 1952. Class 51.

564,090. Plastic Finish, Felt Base Floor Covering. Mannington Mills, Incorporated, Salem, N. J.
Filed Feb. 19, 1951, Serial No. 610,287. Published July 1, 1952. Class 20.

564,091. Rolls of Air Filter Cloth Used for Mechanical Dry-Type Ventilating Air Filters of the Portable Cell, Foldable Frame, and Stationary Pocket Types. American Air Filter Company, Inc., Louisville, Ky.
Filed Mar. 1, 1951, Serial No. 610,659. Published June 24, 1952. Class 42.

564,092. Handbags, Pocketbooks, Portfolios, Trunks, Suitcases, Hat Cases, Shoe Cases, Pullman Cases, Wardrobe Cases, and Overnight Cases. Boyle Leather Goods Co., Inc., New York, N. Y.
Filed Mar. 2, 1951, Serial No. 610,736. Published June 24, 1952. Class 3.

564,093. Upholstered Furniture Consisting of Sofas and Chairs, Mattresses and Box Springs. Barker Bros. Corporation, Los Angeles, Calif.
Filed Mar. 5, 1951, Serial No. 610,817. Published June 24, 1952. Class 32.

564,094. Synthetic Liquid Wood Glue. Northern Adhesives, Inc., Brooklyn, N. Y.
Filed Mar. 5, 1951, Serial No. 610,862. Published June 17, 1952. Class 5.

564,095. Soaps and Synthetic Detergents for General Household and Industrial Uses. Armour and Company, Chicago, Ill.
Filed Mar. 9, 1951, Serial No. 611,068. Published June 17, 1952. Class 52.

564,096. Liquid Soap; Surgical Soap; Hand Soap; Etc. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 10, 1951, Serial No. 611,161. Published June 17, 1952. Class 52.

564,097. Combination Screen and Storm Windows; Combination Screen and Storm Doors; Screens, Windows, Sash, and Doors. Steel Sash Sales & Service, Inc., Weehawken, N. J., now by change of name Kota Products, Inc.
Filed Mar. 12, 1951, Serial No. 611,199. Published June 17, 1952. Class 12.

564,098. Chrome-Magnesite, Air-Setting, High Temperature, Bonding Mortar. General Refractories Company, Philadelphia, Pa.
Filed Mar. 15, 1951, Serial No. 611,353. Published June 17, 1952. Class 12.

564,099. Sanding Kits Containing Individual Containers of Cement and Assorted Grades of Abrasive Grit for Producing Sanding Blocks. Rockwell Manufacturing Company, Pittsburgh, Pa.
Filed Mar. 19, 1951, Serial No. 611,535. Published June 17, 1952. Class 4.

564,100. Bedroom Furniture Comprising Beds, Dressers, Etc. Sachs Quality Stores, Inc., New York, N. Y.
Filed Mar. 22, 1951, Serial No. 611,659. Published July 1, 1952. Class 32.

564,101. Electric Automatic Insecticide Sprayer; Electric Portable Hand Manipulable Insecticide Atomizers; and Electric Railroad Car Atomizers. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 22, 1951, Serial No. 611,669. Published June 17, 1952. Class 21.

564,102. Perfume, Eau de Cologne, Toilet Water, Hand Lotion, Face Lotion, Etc. Jacques Dobais, Inc., New York, N. Y.
Filed Mar. 26, 1951, Serial No. 611,774. Published June 17, 1952. Class 51.

564,103. Fish Bait Composed Chiefly of Cheese. Aubrey M. Stovall, doing business as The Miracle Bait Co., Dallas, Tex.
Filed Mar. 2, 1951, Serial No. 611,932. Published June 24, 1952. Class 22.

564,104. Respiration-Testing and Gas-Administration Apparatus and Parts Thereof. Martha F. McKesson, doing business as McKesson Appliance Co., Toledo, Ohio.
Filed Mar. 5, 1951, Serial No. 612,052. Published June 3, 1952. Class 44.

564,105. Hair Oil and Tonic. Takara Laboratories Corporation, trading as Takara Laboratories, Hollywood, Calif., assignor to Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio.
Filed Apr. 5, 1951, Serial No. 612,281. Published June 17, 1952. Class 51.

564,106. Foundation Lotion and Lipstick. Richard Hudnut, New York, N. Y.
Filed Apr. 6, 1951, Serial No. 612,326. Published May 20, 1952. Class 51.

564,107. Spiral Fasteners. Spiral Fastener Corporation, Stamford, Conn.
Filed Apr. 9, 1951, Serial No. 612,420. Published June 24, 1952. Class 13.

564,108. Work Shirts, Flannel Shirts, Sport Shirts, Dress Shirts, Jackets, Slacks, and Work Pants. Trenton Shirt Manufacturing Co., Trenton, N. J.
Filed Apr. 9, 1951, Serial No. 612,424. Published June 24, 1952. Class 39.

564,109. Skin Lotion, Vanishing Skin-Lotion, Powder Base for Skin Powders, Hair Coloring, and Dye and Color Remover. Rapidol Distributing Corporation, New Hyde Park, N. Y.
Filed Apr. 13, 1951, Serial No. 612,626. Published May 20, 1952. Class 51.

564,110. Cosmetics—Namely, Dry Skin Cream, Foundation Cream, Etc. Christy, Inc., Newark, N. Y.
Filed Apr. 17, 1951, Serial No. 612,728. Published May 20, 1952. Class 51.

564,111. Perfume, Toilet Water, and Cologne. Princesse Titania, Inc., New York, N. Y.
Filed Apr. 23, 1951, Serial No. 613,023. Published June 17, 1952. Class 51.

564,112. Children's Dresses. Marsha Kay Originals, Edinburg, Tex.
Filed Apr. 24, 1951, Serial No. 613,074. Published June 24, 1952. Class 39.

564,113. Thin-Wall Rigid Metallic Conduit Used as Physical Protection for Electrical Conductor Wires and Cables. National Electric Products Corporation, Pittsburgh, Pa.
Filed May 10, 1951, Serial No. 613,721. Published June 24, 1952. Class 21.

564,114. Bushings Used for Armored Electric Conductors or Cables. National Electric Products Corporation, Pittsburgh, Pa.
Filed May 10, 1951, Serial No. 613,724. Published June 24, 1952. Class 21.

564,115. Wires and Cables for Electrical Use. National Electric Products Corporation, Pittsburgh, Pa.
Filed May 10, 1951, Serial No. 613,726. Published June 24, 1952. Class 21.

564,116. Mechanically Grooved Phonograph Records of the Disc Type. Concert Hall Society, Inc., New York, N. Y.
Filed May 11, 1951, Serial No. 613,763. Published July 1, 1952. Class 36.

564,117. Fluorescent Lamp Starters. Industrial Starter Corporation, New York, N. Y.
Filed May 15, 1951, Serial No. 613,875. Published June 17, 1952. Class 21.

564,118. Grooved Phonograph Records. Conversaphone Institute, also doing business under the name and style of The Conversaphone Institute, New York, N. Y.
Filed May 21, 1951, Serial No. 614,135. Published July 1, 1952. Class 36.

564,119. Local Anesthetic. Harvey Laboratories, Incorporated, Philadelphia, Pa.
Filed May 28, 1951, Serial No. 614,439. Published May 27, 1952. Class 18.

564,120. Shampoos. Eugène Schueller, Paris, France.
Filed May 29, 1951, Serial No. 614,516. Published June 17, 1952. Class 52.

564,121. Surgical Adhesive Plaster. Parke, Davis & Company, Detroit, Mich.
Filed June 4, 1951, Serial No. 614,713. Published June 17, 1952. Class 44.

564,122. Kits for Home Permanents Comprising Curling Lotion, Fixative, and Material To Roll the Hair On for Curling—Namely, Narrow Material of Velvet, Cotton, and Plastic and Hair Curling Material of Velvet, Cotton, and Plastic. Lucy Brett Andrew, Jamaica, N. Y.
Filed June 5, 1951, Serial No. 614,738. Published June 17, 1952. Class 44.

564,123. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed June 12, 1951, Serial No. 615,057. Published May 20, 1952. Class 28.

564,124. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed June 12, 1951, Serial No. 615,058. Published May 20, 1952. Class 28.

564,125. Bracelets and Watch Bracelets and Watch Straps. Gemex Company, Union, N. J.
Filed June 12, 1951, Serial No. 615,059. Published May 13, 1952. Class 28.

564,126. Lavatory Sinks. The Glove-Wernicke Co., Cincinnati, Ohio.
Filed June 14, 1951, Serial No. 615,177. Published July 1, 1952. Class 13.

564,127. Maternity Clothing—Namely, Dresses, Suits, Slacks, Skirts, and Jackets. Samuel Green of California, Los Angeles, Calif.
Filed June 18, 1951, Serial No. 615,316. Published June 24, 1952. Class 39.

564,128. Hair Restorer. Royal Imperial Products Corp., New York, N. Y.
Filed June 27, 1951, Serial No. 615,794. Published May 20, 1952. Class 51.

564,129. Nail Enamel and Lipstick. Revlon Products Corporation, New York, N. Y.
Filed July 3, 1951, Serial No. 616,048. Published May 20, 1952. Class 51.

564,130. Nail Enamel and Lipstick. Revlon Products Corporation, New York, N. Y.
Filed July 3, 1951, Serial No. 616,049. Published May 20, 1952. Class 51.

564,131. Toy Portable Savings Bank. Roosevelt Savings Bank of the City of New York, Brooklyn, N. Y.
Filed July 12, 1951, Serial No. 616,387. Published June 24, 1952. Class 22.

564,132. Slips, Girdles, Garter Belts, and Baby Pants. Stardust, Incorporated, Poughkeepsie and New York, N. Y.
Filed July 14, 1951, Serial No. 616,517. Published June 24, 1952. Class 39.

564,133. Ash-Trays, Cigarette Boxes, and Cigarette Lighters. Bernad Creations, Ltd., Mount Vernon, N. Y.
Filed July 18, 1951, Serial No. 616,620. Published June 10, 1952. Class 8.

564,134. Flints for Cigarette Lighters. William d'Alton, Paris, France.
Filed July 19, 1951, Serial No. 616,660. Published June 24, 1952. Class 8.

564,135. Mink Pelts and Live Minks. Jim Moore Mink Ranch, Peshtigo, Wis.
Filed July 24, 1951, Serial No. 616,860. Published June 17, 1952. Class 1.

564,136. Toy Figure Normally Standing in Upright Position and Which Topples After a Predetermined Interval of Time. Four Guys Products, Inc., New York, N. Y.
Filed July 26, 1951, Serial No. 616,953. Published July 1, 1952. Class 22.

564,137. Playing Cards. E-Z Playing Card Co., Quincy, Mass.
Filed July 30, 1951, Serial No. 617,110. Published June 24, 1952. Class 22.

564,138. Ladies' Shoulder Bags, Handbags, Club Bags, Furlough Bags, Boston Bags, Zipper Envelopes, Brief Bags, Luggage Tags. Bloom Bros. Bag Co., Boston, Mass.
Filed July 31, 1951, Serial No. 617,140. Published June 24, 1952. Class 3.

564,139. Decalcomanias. The Meyercord Co., Chicago, Ill.
Filed July 31, 1951, Serial No. 617,153. Published June 10, 1952. Class 38.

564,140. Lotions for the Skin. Campana Corporation, Batavia, Ill.
Filed Aug. 2, 1951, Serial No. 617,224. Published Apr. 15, 1952. Class 51.

564,141. Electric Motors; Electric Engine Starters; Electric Generators; Electric Inverters; Electric Motor Driven Actuator for Wing Flaps, Bomb Bay Doors, Bomb Bay Racks and the Like; Tachometer Generators; Voltage Regulators; Special Aircraft Electric Motors; and Magnetos. Jack & Heintz Precision Industries, Inc., Cleveland, Ohio.
Filed Aug. 7, 1951, Serial No. 617,401. Published June 24, 1952. Class 21.

564,142. Canned Fish. G. P. Halferty & Co., Seattle, Wash.
Filed Aug. 8, 1951, Serial No. 617,439. Published June 17, 1952. Class 46.

564,143. Articles of Religious Clothing—Namely, Surplices, Cassocks, Windsor Ties, Capes, and Sashes, Albs, Dalmatics, Chasubles, Stoles, Rockets, and Veils, for Boys, Girls, Men, and Women. Malhame Sewing Company, Milford, Pa.
Filed Aug. 8, 1951, Serial No. 617,449. Published June 24, 1952. Class 39.

564,144. Aggregates Comprising Crushed Rock Fragments for Use in Tumbling Barrels for Polishing Purposes. Roto-Finish Company, Kalamazoo, Mich.
Filed Aug. 9, 1951, Serial No. 617,512. Published June 17, 1952. Class 4.

564,145. Men's Naval Uniforms. Charles Salvato & Co., Brooklyn, N. Y.
Filed Aug. 10, 1951, Serial No. 617,556. Published June 24, 1952. Class 39.

564,146. Pillows. Comfort Pillow & Feather Company, Somerville and Boston, Mass.
Filed Aug. 18, 1951, Serial No. 617,837. Published June 24, 1952. Class 32.

564,147. Shampoo. Duart Manufacturing Co., Ltd., San Francisco, Calif.
Filed Aug. 20, 1951, Serial No. 617,867. Published June 17, 1952. Class 52.

564,148. Finger Rings, Brooches, Scarf Pins, Earrings, Pendants, Lapel Buttons, and Cuff Links Made in Whole or in Part of Precious Metals. Goodman and Company, Indianapolis, Ind.
Filed Aug. 21, 1951, Serial No. 617,915. Published May 27, 1952. Class 28.

564,149. Cheese. Emmental Cheese Corporation, New York, N. Y.
Filed Aug. 22, 1951, Serial No. 617,955. Published June 24, 1952. Class 46.

564,150. Cheese. Emmental Cheese Corporation, New York, N. Y.
Filed Aug. 22, 1951, Serial No. 617,956. Published June 24, 1952. Class 46.

564,151. Wrenches. Fairmount Tool & Forging, Inc., Buffalo, N. Y.
Filed Aug. 23, 1951, Serial No. 617,987. Published May 20, 1952. Class 23.

564,152. Sutures Used in Surgery. Paul Bréard, Nancy (Meurthe and Moselle), France.
Filed Aug. 21, 1951, Serial No. 618,072. Published June 17, 1952. Class 44.

564,153. Partially Printed Score Sheets and Scoring Pencils and Crayons. The Brunswick-Balke-Collender Company, Chicago, Ill.
Filed Aug. 28, 1951, Serial No. 618,150. Published May 20, 1952. Class 37.

564,154. Live Poultry and Hatching Eggs. Roselawn Poultry Farm, Madison Township, Montgomery County, Ohio.
Filed Aug. 31, 1951, Serial No. 618,304. Published June 3, 1952. Class 1.

564,155. Marlaceous Material—Namely, Travertine in Its Raw State for Use in Aquarium Water. Mary E. McDonald, Columbus, Ohio.
Filed Sept. 4, 1951, Serial No. 618,360. Published June 17, 1952. Class 1.

564,156. Smokers' Pipes, Cigarette Holders, Cigar Holders, and Cigar and Cigarette Lighters. Federated Supply Corporation, New York, N. Y.
Filed Sept. 7, 1951, Serial No. 618,492. Published June 24, 1952. Class 8.

564,157. Leather. R. & A. Kohnstamm (London) Inc., New York, N. Y.
Filed Sept. 11, 1951, Serial No. 618,640. Published June 17, 1952. Class 1.

564,158. Children's Gloves and Mittens Made of Rubberized Fabric or Plastic Coated Fabric. The Pioneer Rubber Company, Willard, Ohio.
Filed Sept. 13, 1951, Serial No. 618,758. Published June 24, 1952. Class 39.

564,159. Sound Equipment, Accessories Thereof, and Parts Thereof, Etc. Webster-Chicago Corporation, Chicago, Ill.
Filed Sept. 21, 1951, Serial No. 619,118. Published June 10, 1952. Class 21.

564,160. Shock and Vibration Absorbing Mounts for Absorbing Mechanical Vibrations. Robinson Aviation, Inc., Teterboro, N. J.
Filed Sept. 26, 1951, Serial No. 619,260. Published Apr. 29, 1952. Class 23.

564,161. Electric Water Heaters and Transformers for X-Ray Machines. Ritter Company, Inc., Rochester, N. Y.
Filed Sept. 28, 1951, Serial No. 619,362. Published June 24, 1952. Class 21.

564,162. Tablet Medication for the Treatment of Chronic Cholecystitis, Cholangitis, and Biliary Dyskinesia. Lakeside Laboratories, Inc., Milwaukee, Wis.
Filed Sept. 29, 1951, Serial No. 619,392. Published May 20, 1952. Class 18.

564,163. Capsule Medication for the Treatment of Arteriosclerosis, Cirrhosis, and Diabetes Mellitus. Lakeside Laboratories, Inc., Milwaukee, Wis.
Filed Sept. 29, 1951, Serial No. 619,394. Published May 20, 1952. Class 18.

564,164. Lift Trucks (i. e., Self-Propelled Machines Equipped With Lifting Mechanisms Which Are Used To Pick Up, Transport and Deposit Objects and Piles of Objects Engaged by Such Lifting Mechanisms). Hyster Company, Portland, Oreg.
Filed Oct. 2, 1951, Serial No. 619,509. Published May 6, 1952. Class 23.

564,165. Synthetic Rubber. American Monomer Corporation, Leominster, Mass.
Filed Oct. 13, 1951, Serial No. 619,961. Published June 17, 1952. Class 1.

564,166. Low Frequency Induction Furnaces. Magnethermic Corporation, Youngstown, Ohio.
Filed Oct. 17, 1951, Serial No. 620,106. Published June 10, 1952. Class 21.

564,167. Sanitary Panties. Trago Manufacturing Co. Inc., New York, N. Y.
Filed Oct. 18, 1951, Serial No. 620,177. Published June 17, 1952. Class 44.

564,168. Lipstick, Rouge, and Nailpolish. Elizabeth Arden Sales Corporation, New York, N. Y.
Filed Oct. 19, 1951, Serial No. 620,185. Published May 20, 1952. Class 51.

564,169. Electric Phonograph Record Players and Combination Radio-Phonograph Sets. Electronic Creations Co. Inc., New York, N. Y.
Filed Oct. 22, 1951, Serial No. 620,308. Published June 24, 1952. Class 21.

564,170. Cosmetic for Obliterating Birthmarks and Other Skin Blemishes. Lydia O'Leary, Inc., New York, N. Y.
Filed Oct. 23, 1951, Serial No. 620,360. Published May 20, 1952. Class 51.

564,171. Perfume, Face Powder, and Face Cream. Coty, Inc., New York, N. Y.
Filed Oct. 24, 1951, Serial No. 620,401. Published June 17, 1952. Class 51.

564,172. Men's Suits, Trousers, Sport Coats, and Outercoats. H. Freeman & Son, Inc., Philadelphia, Pa.
Filed Oct. 24, 1951, Serial No. 620,411. Published June 24, 1952. Class 39.

564,173. Lawn Seed Mixtures. Garden State Seed Co., Inc., Newark, N. J.
Filed Oct. 25, 1951, Serial No. 620,464. Published June 17, 1952. Class 1.

564,174. Lawn Seed Mixtures. Garden State Seed Co., Inc., Newark, N. J.
Filed Oct. 25, 1951, Serial No. 620,465. Published June 17, 1952. Class 1.

564,175. Perfume. Societe a Responsabilite Limitee Dite: Marquay, Paris, France.
Priority under Sec. 44(d). French Registration No. 413,472, filed July 12, 1951.
Filed Oct. 26, 1951, Serial No. 620,531. Published May 20, 1952. Class 51.

564,176. Colognes. John Robert Powers Products Co., Inc., Wilmington, Del., and New York, N. Y.
Filed Oct. 27, 1951, Serial No. 620,552. Published June 17, 1952. Class 51.

564,177. Hard Surface Floor Covering of the Nature of Linoleum. Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa.
Filed Oct. 27, 1951, Serial No. 620,555. Published June 24, 1952. Class 20.

564,178. Hard Surface Floor Covering of the Nature of Linoleum. Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa.
Filed Oct. 27, 1951, Serial No. 620,557. Published June 24, 1952. Class 20.

564,179. Stick Cologne. United Enterprises, Inc., Chicago, Ill.
Filed Oct. 30, 1951, Serial No. 620,700. Published May 20, 1952. Class 51.

564,180. Logs. The Robert Dollar Co., San Francisco, Calif.
Filed Oct. 31, 1951, Serial No. 620,724. Published June 17, 1952. Class 1.

564,181. Men's and Young Men's Suits, Trousers, Slacks, Outer Shirts, Sport Coats, Dress Coats, Jackets, Leisure Coats, and Leisure Shirts. Belmont Clothes, Inc., Baltimore, Md.
Filed Nov. 9, 1951, Serial No. 621,050. Published June 24, 1952. Class 39.

564,182. Synthetic Fiber in the Form of Filament Fiber, Staple Fiber, and Tow. American Cyanamid Company, New York, N. Y.
Filed Nov. 13, 1951, Serial No. 621,117. Published May 27, 1952. Class 1.

564,183. Cotton Yarn, Crochet and Knitting Yarn, Rug Yarn, and Embroidery Yarn. Lily Mills Company, Shelby, N. C.
Filed Nov. 13, 1951, Serial No. 621,153. Published June 24, 1952. Class 43.

564,184. Bolt Anchors. Precision Devices, Inc., New York, N. Y.
Filed Nov. 15, 1951, Serial No. 621,285. Published June 24, 1952. Class 13.

564,185. Fishing Rods. Wright & McGill Co., Denver, Colo.
Filed Nov. 15, 1951, Serial No. 621,294. Published June 24, 1952. Class 22.

564,186. Felt Base Floor Covering. Armstrong Cork Company, Lancaster, Pa.
Filed Nov. 17, 1951, Serial No. 621,352. Published June 24, 1952. Class 20.

564,187. Steel Office Furniture—Namely, Filing Cabinets, Storage Cabinets, and Card Cases. Peerless Steel Equipment Company, Philadelphia, Pa.
Filed Nov. 23, 1951, Serial No. 621,574. Published June 24, 1952. Class 32.

564,188. Character Dolls. Talon, Inc., Meadville, Pa.
Filed Nov. 27, 1951, Serial No. 621,734. Published July 1, 1952. Class 22.

564,189. Liquid Paint Brush and Roller Cleaner and Preserver in the Nature of a Paint, Enamel, Lacquer, Shellac, and Varnish Remover. G. N. Coughlan Company, West Orange, N. J.
Filed Nov. 29, 1951, Serial No. 621,817. Published June 17, 1952. Class 52.

564,190. Flexible Floor and Wall Coverings Having Printed, Coated, or Composition Surfaces. Congoleum-Nairn, Inc., Kearny, N. J.
Filed Dec. 1, 1951, Serial No. 621,950. Published June 24, 1952. Class 20.

564,191. Flexible Resistors. Clarostat Mfg. Co., Inc., Dover, N. H.
Filed Dec. 3, 1951, Serial No. 622,010. Published July 1, 1952. Class 21.

564,192. Power Resistors. Clarostat Mfg. Co., Inc., Dover, N. H.
Filed Dec. 3, 1951, Serial No. 622,011. Published July 1, 1952. Class 21.

564,193. Office Furniture—Namely, Filing Cabinets and Desks. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,040. Published July 1, 1952. Class 32.

564,194. Chicken Fryers, Dutch Ovens, Sauce Pans, Open Sauce Pans, and Closed Sauce Pans, All of Metal. Regal Ware, Inc., Kewaskum, Wis.
Filed Dec. 6, 1951, Serial No. 622,173. Published July 1, 1952. Class 13.

564,195. Metal Cooking Utensils Sold in Sets Comprised of Combination Cookers, Dutch Ovens, Complete Meal Cookers, Locklid, and Chicken Fryers. Regal Ware, Inc., Kewaskum, Wis.
Filed Dec. 6, 1951, Serial No. 622,174. Published July 1, 1952. Class 13.

564,196. Fibre Board Padding for Chair Backs and Seats, Tables and Upholstered Furniture. Illinois Fibre Specialty Company, Chicago, Ill.
Filed Dec. 13, 1951, Serial No. 622,439. Published July 1, 1952. Class 32.

564,197. Women's Apparel—Namely, Slips, Half Slips, Petticoats, Camisoles, Shorty Gowns, and Night Gowns. Newark Slip Contracting Co., Inc., also doing business under the trade name of Cadence Lingerie Co., Newark, N. J.
Filed Dec. 19, 1951, Serial No. 622,674. Published June 24, 1952. Class 39.

564,198. Children's and Girls' Dresses. Golden Girl Frocks, Inc., New York, N. Y.
Filed Jan. 7, 1952, Serial No. 623,275. Published June 24, 1952. Class 39.

564,199. Baby's Crib Cover. Ronley Floating Blanket Co., New York, N. Y.
Filed Jan. 8, 1952, Serial No. 623,316. Published June 24, 1952. Class 42.

564,200. Wilton, Axminster, and Velvet Carpets and Rugs. Archibald Holmes & Son, Philadelphia, Pa.
Filed Jan. 10, 1952, Serial No. 623,415. Published June 24, 1952. Class 42.

564,201. Wilton, Axminster, and Velvet Carpets and Rugs. Archibald Holmes & Son, Philadelphia, Pa.
Filed Jan. 29, 1952, Serial No. 624,234. Published June 24, 1952. Class 42.

564,202. Boys' Clothing—Namely, Trousers, Shirts, Suits, Coats, Hats, Caps, Overalls, and Jackets. Shirma Boyswear Mfg. Co., Inc., Mount Vernon, N. Y.
Filed Jan. 30, 1952, Serial No. 624,307. Published June 24, 1952. Class 39.

564,203. Wilton, Axminster, and Velvet Carpets and Rugs. Archibald Holmes & Son, Philadelphia, Pa.
Filed Feb. 1, 1952, Serial No. 624,411. Published June 24, 1952. Class 42.

564,204. Wilton, Axminster, and Velvet Carpets and Rugs. Archibald Holmes & Son, Philadelphia, Pa.
Filed Feb. 1, 1952, Serial No. 624,412. Published June 24, 1952. Class 42.

564,205. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,232. Published June 24, 1952. Class 42.

564,206. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,233. Published June 24, 1952. Class 42.

564,207. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,234. Published June 24, 1952. Class 42.

564,208. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,235. Published June 24, 1952. Class 42.

564,209. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,244. Published June 24, 1952. Class 42.

564,210. Infants' Blankets. Anderson, Clayton & Co., Houston, Tex.
Filed Feb. 20, 1952, Serial No. 625,245. Published June 24, 1952. Class 42.

564,211. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres and Mixtures Thereof. Shirley Fabrics Corp., New York, N. Y.
Filed Feb. 20, 1952, Serial No. 625,299. Published June 24, 1952. Class 42.

564,212. Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres and Mixtures Thereof. Shirley Fabrics Corp., New York, N. Y.
Filed Feb. 21, 1952, Serial No. 625,371. Published June 24, 1952. Class 42.

564,213. Fabrics in the Piece of Synthetic Fibers. National Mullinson Fabrics Corporation, New York, N. Y., assignor to Burlington Mills Corporation, Greensboro, N. C., a corporation of Delaware.
Filed Feb. 23, 1952, Serial No. 625,432. Published June 24, 1952. Class 42.

564,214. Air and Water Cooled Television Transmitters and Components Thereof, Etc. Federal Telephone and Radio Corporation, Clifton, N. J.
Filed Mar. 1, 1952, Serial No. 625,792. Published July 1, 1952. Class 21.

Service Marks

564,215. Preparation of Scripts and Production of Moving Pictures Therefrom for Use by Industrial and Educational Institutions. Robert Yarnall Richie Productions, Inc., New York, N. Y.
Filed Aug. 27, 1948, Serial No. 564,289. Published June 24, 1952. Class 107.

564,216. Advertising, Promoting, Extending, and Maintaining Distribution of Products of Subscribing Manufacturers. Pennsylvania Grocers Association, Philadelphia, Pa.
Filed Apr. 12, 1949, Serial No. 576,980. Published June 24, 1952. Class 101.

564,217. Engineering Services Rendered to Others in the Design and Layout of Industrial Plant Facilities. Edgar E. Brosius Company Inc., Pittsburgh, Pa., now by change of name Salem-Brosius, Inc., a corporation of Pennsylvania.
Filed Aug. 11, 1949, Serial No. 583,327. Published June 24, 1952. Class 100.

564,218. Services in Connection With the Promotion and Sale of Automobile Service Bonds Consisting of Maintaining a History of Repairs for Holders of Such Service Bonds; Etc. The Sovereign Plan, Inc., Chicago, Ill.
Filed Nov. 15, 1949, Serial No. 587,828. Published June 24, 1952. Class 101.

564,219. Services in Connection With the Promotion and Sale of Automobile Service Bonds Consisting of Maintaining a History of Repairs for Holders of Such Service Bonds; Etc. The Sovereign Plan, Inc., Chicago, Ill.
Filed Nov. 15, 1949, Serial No. 587,829. Published June 24, 1952. Class 101.

564,220. Advertising Services—Namely, Formulating and Preparing Advertising Material for Use in Connection With Radio and Television Programs by Advertisers. Archer Productions, Inc., New York, N. Y.
Filed May 13, 1950, Serial No. 597,376. Published June 24, 1952. Class 101.

564,221. Fabrication of Ferrous and Non-Ferrous Metal Products on a Custom Basis. Northern Metal Products Company, Chicago, Ill.
Filed Jan. 30, 1951, Serial No. 609,412. Published June 24, 1952. Class 106.

564,222. Laundry and Dry Cleaning. One Hour Valet, Inc., Jacksonville, Fla.
Filed Apr. 10, 1951, Serial No. 612,469. Published June 24, 1952. Class 103.

564,223. Rendering Entertainment Service in the Nature of a Musical Variety Show Participated in by Children and Adults and Presented in Theatres and on Radio and on Television Broadcast Programs. Starr-Allen Professional Studios, New York, N. Y.
Filed Apr. 23, 1951, Serial No. 613,028. Published June 24, 1952. Class 107.

Collective Mark

564,224. Stimulation and Maintenance of Interest in College and Fraternal Affairs, the Promotion of Highest Standards of Conduct Consistent With Good Taste and Morals, Etc. Sigma Chi Fraternity, Evanston, Ill.
Filed Apr. 28, 1950, Serial No. 596,528. Published June 24, 1952. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

564,225. (Class 2. Receptacles.) St. Regis Paper Company, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 5, 1947; amended to application, Supplemental Register, Jan. 24, 1952, Serial No. 533,636.



The drawing is lined for shading purposes only.
For Paper Bags.
Claims use since June 3, 1947.

564,226. (Class 34. Heating, Lighting, and Ventilating Apparatus.) American Metalcraft Corporation, Detroit, Mich. Original filed, act of 1946, Principal Register, Apr. 5, 1948; amended to application, Supplemental Register, Mar. 30, 1949, Serial No. 553,799.

Kindl-Lite

For Safety Extension Pyrophoric Lighters.
Claims use since Nov. 13, 1947.

564,227. WITHDRAWN.

564,228. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Multistamp Company, Inc., Norfolk, Va. Original filed, act of 1946, Principal Register, Dec. 6, 1949; amended to application, Supplemental Register, Feb. 7, 1952, Serial No. 588,876.



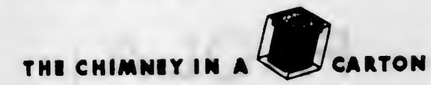
For Stencil Hand Stamps; and Stencil Hand Stamping Outfits Comprising Hand Stamps, Stencils, Ink, Ink Brushes, Writing Boards, Stylus Pens, Correction Varnish, Type Cleaner, and Cases for Containing Such Hand Stamping Outfits.
Claims use since July 5, 1949.

564,229. (Class 27. Horological Instruments.) F. Suter & Co., Bienne, Switzerland. Original filed, act of 1946, Principal Register, Dec. 17, 1949; amended to application, Supplemental Register, Mar. 12, 1952, Serial No. 589,534.

SUTER

Applicant claims ownership of Swiss Registration No. 109,725, dated Mar. 8, 1945.
For Watches and Parts of Watches.
Claims use since Aug. 5, 1945 and since Mar. 15, 1948 in commerce between Switzerland and the United States.

564,230. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Autogas Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 29, 1949; amended to application, Supplemental Register, June 27, 1952, Serial No. 590,065.



For Blowers and Controls Therefor for Venting Gas.
Claims use since February 1949.

564,231. (Class 39. Clothing.) Hollywood-Maxwell Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 23, 1950; amended to application, Supplemental Register, June 21, 1952, Serial No. 591,296.

THE AMERICAN LOOK

The lining and shading in the mark is a reproduction of the lining and the shading on the specimens.
For Brassières.
Claims use since Jan. 5, 1950.

564,232. (Class 4. Abrasives and Polishing Materials.) Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Original filed, act of 1946, Principal Register, Jan. 25, 1950; amended to application, Supplemental Register, May 17, 1952, Serial No. 591,419.

RUFF-L-BUFF

For Industrial Polishing Buffs.
Claims use since Nov. 2, 1949.

564,233. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Chambers Corporation, Shelbyville, Ind. Original filed, act of 1946, Principal Register, Mar. 1, 1950; amended to application, Supplemental Register, July 7, 1952, Serial No. 593,220.

ThermoOven

For Oven Section of a Gas Range.
Claims use since on or about Oct. 27, 1949.

564,234. (Class 12. Construction Materials.) Southern States Cooperative, Incorporated, Richmond, Va. Original filed, act of 1946, Principal Register, May 10, 1950; amended to application, Supplemental Register, Apr. 30, 1951, Serial No. 597,235.

LONG LASTING NEVA RUST

For Metal Roofing.
Claims use since Apr. 25, 1950.

564,235. (Class 46. Foods and Ingredients of Foods.) Grid-L Rich, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, May 19, 1950; amended to application, Supplemental Register, June 18, 1952, Serial No. 597,751.

GRID-L-REDI

Applicant claims ownership of Registration No. 527,434.
For Prepared Pancake and Waffle Batter in Powdered Form.
Claims use since Dec. 19, 1949.

564,236. (Class 50. Merchandise Not Otherwise Classified.) Dexdahl, Inc., Cohasset, Mass. Original filed, act of 1946, Principal Register, June 13, 1950; amended to application, Supplemental Register, June 17, 1952, Serial No. 598,988.

SKI-TREE

For Bootholders.
Claims use since Aug. 1, 1949.

564,237. (Class 46. Foods and Ingredients of Foods.) Foster's Freeze National Corporation, Beverly Hills, Calif. Original filed, act of 1946, Principal Register, July 7, 1950; amended to application, Supplemental Register, June 23, 1952, Serial No. 600,330.

Foster's "All Nation" Freeze

For Dry and Liquid Ice Milk Mix and Frozen Ice Milk.
Claims use since Apr. 30, 1948.

564,238. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Harold Warp, doing business as Flex-O-Glass Manufacturing Co. and as Warp Brothers, Chicago, Ill., assignor to Flex-O-Glass, Inc., Chicago, Ill., a corporation of Illinois. Original filed, act of 1946, Principal Register, Aug. 8, 1950; amended to application, Supplemental Register, June 30, 1952, Serial No. 601,967.

ZINCHROME

For Reticular Mesh Metallic Material for Use as Insect Screening.
Claims use since May 5, 1950.

564,239. (Class 2. Receptacles.) Semmes Bag Company, Inc., Memphis, Tenn. Original filed, act of 1946, Principal Register, Nov. 27, 1950; amended to application, Supplemental Register, May 21, 1952, Serial No. 606,984.

HOOK-EYE

For Woven Fiber Bags and Sacks for Farm Products—Namely, Cotton Pick Sacks.
Claims use since Sept. 1, 1949.

564,240. (Class 46. Foods and Ingredients of Foods.) Meat Industry Suppliers, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 16, 1951; amended to application, Supplemental Register, June 19, 1952, Serial No. 608,827.

BILDER

For Preparation Consisting of a Specially Processed Oat Product for Use in the Manufacture of Sausages and Similar Meat Products.
Claims use since Aug. 8, 1950.

564,241. (Class 52. Detergents and Soaps.) The Wolcott Company, Hartford, Conn., assignee of William G. Wolcott, doing business as Wolcott Laboratories. Original filed, act of 1946, Principal Register, Jan. 20, 1951; amended to application, Supplemental Register, Feb. 26, 1952, Serial No. 609,065.

Easy-Off

For Stove Cleaner.
Claims use since July 1, 1950.

564,242. (Class 31. Filters and Refrigerators.) Butler Manufacturing Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, Jan. 27, 1951; amended to application, Supplemental Register, Jan. 17, 1952, Serial No. 609,330.

Big-Flo

For Tank Type Liquid Filtering Units.
Claims use since Jan. 12, 1951.

564,243. (Class 4. Abrasives and Polishing Materials.) South River Sand Company, Old Bridge, N. J. Original filed, act of 1946, Principal Register, Feb. 21, 1951; amended to application, Supplemental Register, July 2, 1952, Serial No. 610,383.



For Abrasive and Polishing Sands for Sandblasting.
Claims use since Dec. 26, 1950.

564,244. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Crompton Company, Crompton, R. I. Original filed, act of 1946, Principal Register, Apr. 11, 1951; amended to application, Supplemental Register, June 7, 1952, Serial No. 612,485.

PAOLA

For Velvet Fabrics in the Piece Composed of Rayon Fibers.
Claims use since Mar. 20, 1951.

564,245. (Class 6. Chemicals and Chemical Compositions.) Sandoz Chemical Works, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 28, 1951; amended to application, Supplemental Register, July 2, 1952, Serial No. 615,856.

CHROMOFIX

Applicant claims ownership of Registration No. 501,420.
For Dyestuff Auxiliary for After-Treatment of Dyed Wool To Increase the Wet Fastness Properties.
Claims use since Apr. 1, 1951.

564,246. (Class 29. Brooms, Brushes, and Dusters.) G. S. Mack, doing business as Andrew Mack & Son, Jonesville, Mich. Original filed, act of 1946, Principal Register, July 3, 1951; amended to application, Supplemental Register, May 27, 1952, Serial No. 616,042.

TRUE GRIP

Applicant claims ownership of Registration No. 557,976.
For Artists' Brushes.
Claims use since May 14, 1951.

564,247. (Class 32. Furniture and Upholstery.) Kroll Brothers Company, Chicago, Ill. Original filed, act of 1946, Principal Register, July 7, 1951; amended to application, Supplemental Register, July 5, 1952, Serial No. 616,208.

KROLL
RIB-N-DRAWERS

For Cribs With Built-In Drawers.
Claims use since Mar. 5, 1951.

564,248. (Class 51. Cosmetics and Toilet Preparations.) Wernet Dental Mfg. Co., Inc., doing business as Hudson Products, Jersey City, N. J. Original filed, act of 1946, Principal Register, July 25, 1951; amended to application, Supplemental Register, July 28, 1952, Serial No. 616,930.

GREEN MINT

For Mouth Wash Containing Carbamide, Chlorophyll and Alcohol as Active Ingredients.
Claims use since July 20, 1951.

564,249. (Class 32. Furniture and Upholstery.) Clarkson Jones, doing business as Bakress Mattress Co., Charlotte, N. C. Original filed, act of 1946, Principal Register, Sept. 14, 1951; amended to application, Supplemental Register, July 11, 1952, Serial No. 618,800.

BakRess

For Mattresses.
Claims use since May 19, 1951.

564,250. (Class 46. Foods and Ingredients of Foods.) Casa de' Nictolis, Fond du Lac, Wis. Original filed, act of 1946, Principal Register, Jan. 22, 1952; amended to application, Supplemental Register, July 17, 1952, Serial No. 623,873.

CASA de' NICTOLIS

For Cheese.
Claims use since June 12, 1951.

564,251. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Jamestown Metal Products, Inc., Jamestown, N. Y. Filed Mar. 19, 1952, Serial No. 626,676.

JAMESTOWN

For Sinks and Drain Boards.
Claims use since Jan. 15, 1950.

Service Marks

564,252. (Class 101. Advertising and Business.) James Thomas Chirurg Company, Boston, Mass. Original filed, act of 1946, Principal Register, Oct. 28, 1948; amended to application, Supplemental Register, May 21, 1952, Serial No. 567,755.

Research-Proved

For Designing and Preparing Advertising Layouts.
Claims use since July 13, 1948.

564,253. (Class 100. Miscellaneous.) Rose Brody, doing business as Brody's Contoura Salon, Bala Cynwyd, Pa. Original filed, act of 1946, Principal Register, Feb. 16, 1951; amended to application, Supplemental Register, May 29, 1952, Serial No. 610,162.

BRODY'S CONTOURA

For Hair Styling, Shaping, Permanent Waving and Tinting.
Claims use since Feb. 5, 1951.

TRADE-MARK REGISTRATIONS RENEWED

38,571. PROPHYLACTIC. Registered July 8, 1902. Florence Manufacturing Company, Northampton, Mass., New York, N. Y., and Chicago, Ill. Re-renewed July 8, 1952, to The Lambert Company, Northampton, Mass., a corporation of Delaware. Hair-Brushes, Nail-Brushes, Flesh-Brushes, and Tooth-Brushes. Class 29.

39,193. AMBROSIA. Registered Nov. 4, 1902. Louis H. Pearce, Buffalo, N. Y. Re-renewed Nov. 4, 1952, to Hinze Ambrosia, Inc., New York, N. Y., a corporation of New York. Toilet Waters and Perfumes. Class 51.

86,208. "CÉLESTINS" AND DESIGN. Registered Apr. 23, 1912. La Compagnie Fermiere de l'Etablissement Thermal de Vichy, Societe Anonyme, Paris, France, a corporation organized under the laws of the Republic of France. Re-renewed Apr. 23, 1952. Natural Mineral Waters. Class 45.

86,209. "GRANDE-GRILLE" AND DESIGN. Registered Apr. 23, 1912. La Compagnie Fermiere de l'Etablissement Thermal de Vichy, Societe Anonyme, Paris, France, a corporation organized under the laws of the Republic of France. Re-renewed Apr. 23, 1952. Natural Mineral Waters. Class 45.

86,576. "HOPITAL" AND DESIGN. Registered May 21, 1912. La Compagnie Fermiere de l'Etablissement Thermal de Vichy, Societe Anonyme, Paris, France, a corporation organized under the laws of the Republic of France. Re-renewed May 21, 1952. Natural Mineral Waters. Class 45.

87,510. FECULOSE. Registered July 16, 1912. Wm. Wotherspoon, Ltd., Paisley, Scotland, a joint-stock company organized under the laws of Great Britain. Re-renewed July 16, 1952. Adhesive Soluble Starch, Gelatine-Glue, Glue, Gum Arabic, Tragacanth, and Dextrin. Class 5.

87,724. LUTA. Registered Aug. 6, 1912. Geo. Bray & Co., Limited, Leeds, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Re-renewed Aug. 6, 1952. Gas Burners of Ordinary Metal. Class 34.

87,725. ELTA. Registered Aug. 6, 1912. Geo. Bray & Co., Limited, Leeds, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Re-renewed Aug. 6, 1952. Gas Burners of Ordinary Metal. Class 34.

87,964. REPRESENTATION OF QUAIL, ETC. Registered Aug. 20, 1912. Albany Perforated Wrapping Paper Company. Re-renewed Aug. 20, 1952, to A. P. W. Products Company, Inc., Albany, N. Y., a corporation of New York. Toilet-Paper. Class 37.

87,965. BOB WHITE. Registered Aug. 20, 1912. Albany Perforated Wrapping Paper Company. Re-renewed Aug. 20, 1952, to A. P. W. Products Company, Inc., Albany, N. Y., a corporation of New York. Toilet-Paper. Class 37.

88,377. "KITON" AND DESIGN. Registered Sept. 10, 1912. Society of Chemical Industry in Basle. Re-renewed Sept. 10, 1952, to Ciba Limited, Basel, Switzerland, a corporation organized under the laws of Switzerland. Coal Tar Colors. Class 6.

88,704. DULLO. Registered Oct. 15, 1912. Philip Ruxton, Inc. Re-renewed Oct. 15, 1952, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Printing-Inks. Class 11.

88,821. "SHIP AHOY." Registered Oct. 29, 1912. Alaska Fish Co. Re-renewed Oct. 29, 1952, to San Juan Fishing & Packing Co., Seattle, Wash., a corporation of Washington. Canned Salmon. Class 46.

88,916. 666. Registered Oct. 29, 1912. Monticello Drug Company, Jacksonville, Fla., a corporation of Florida. Re-renewed Oct. 29, 1952. Remedies for Chills and Fever, Colds, La Grippe, Malaria, Diabetes, Liver, Etc. Class 18.

89,008. "CHARTER OAK" ETC. AND DRAWING. Registered Nov. 5, 1912. The Collins Company, Collinsville, Conn., a corporation of Connecticut. Re-renewed Nov. 5, 1952. Axes, Hatchets, Adzes, Bushhooks, Etc. Class 23.

291,316. GIRLS. Registered Feb. 9, 1932. NEA Service, Inc., Cleveland, Ohio, a corporation of Delaware. Renewed Feb. 9, 1952. Comic Strip. Class 38.

291,410. "PEDEX" ETC. Registered Feb. 9, 1932. Theodore Metcalf Co., Boston, Mass. Renewed Feb. 9, 1952, to Mary H. Lyons, Jackson, Miss. Powder for Treating Athlete's Foot and for Deodorizing, Healing, and Soothing the Feet. Class 51.

292,898. THE HOME CRAFTSMAN. Registered Mar. 29, 1932. Walker-Turner Co., Inc., Plainfield, N. J. Renewed Mar. 29, 1952, to Home Craftsman Publishing Corporation, New York, N. Y., a corporation of New York. Bi-Monthly Magazine. Class 38.

293,047. "THE PARTHENON PRESS" ETC. AND DRAWING. Registered Apr. 5, 1932. Lamar & Whitmore, Book Agents, Publishing House, Methodist Episcopal Church, South, doing business as The Parthenon Press. Renewed Apr. 5, 1952, to Book Agents of the Methodist Episcopal Church, South, Nashville, Tenn., a corporation of Tennessee. Periodical Publications and for Publications Issued From Time to Time. Class 38.

293,233. MADRE ITALIA. Registered Apr. 19, 1932. Antonio Corrao, New York, N. Y. Renewed Apr. 19, 1952, to Antonio Corrao Corporation, Brooklyn, N. Y., a corporation of New York. Olive Oil. Class 46.

293,466. REPRESENTATION OF BOOK AND DESIGN. Registered Apr. 26, 1932. Grennan Bakeries, Inc. Renewed Apr. 26, 1952, to Purity Bakeries Corporation, Chicago, Ill., a corporation of Delaware. Cake, Cookies, and Other Bakery Products. Class 46.

293,471. "MINNESOTA" ETC. AND DESIGN. Registered Apr. 26, 1932. Minnesota Linseed Oil Paint Co. Renewed Apr. 26, 1952, to Minnesota Paints, Inc., Minneapolis, Minn., a corporation of Minnesota. Paint in Paste and Ready Mixed Form, Paint Enamel, and Oil Stain. Class 16.

293,736. "GALVOLITE" AND DESIGN. Registered May 3, 1932. Benjamin Franklin Davis, doing business as Art-Cement Mfg. Co. Renewed May 3, 1952, to Art-Cement Manufacturing Co., Miami, Fla., a corporation of Florida. Paints in Dry Powdered Form. Class 16.

293,841. "INVERPECTOSE" WITH HEAVY UNDER LINE AND DOTS. Registered May 10, 1932. White-Stokes Company, Inc., Chicago, Ill., a corporation of Delaware. Renewed May 10, 1952. Sugar Pect'n Preparation Used in the Making of Confectionery. Class 46.

293,929. TERMCO. Registered May 10, 1932. Standard Oil Company of New Jersey, Wilmington, Del. Renewed May 10, 1952, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Grease Compound Used in Coating Battery Terminals. Class 15.

294,005. "FLASH" AND DESIGN. Registered May 10, 1932. Benjamin & Johnes, Incorporated, Newark, N. J., a corporation of New Jersey. Renewed May 10, 1952. Foundation Garments—Namely, Brassières, Girdles, and Corsets. Class 39.

294,090. "MARCIA C. BOHR" ETC. AND DRAWING. Registered May 17, 1932. Marcia C. Bohr, San Francisco, Calif. Renewed May 17, 1952, to Marcia C. Bohr, Burlingame, Calif. Combination Trouser Skirts. Class 39.

294,098. "B.V.D." ETC. AND DESIGN. Registered May 17, 1932. The B. V. D. Company, Inc., Baltimore, Md. Renewed May 17, 1952, to The B. V. D. Company, Inc., New York, N. Y., a corporation of Delaware. Underwear of Woven and Textile Fabrics—Namely, Shirts, Drawers, and Union Suits; Pajamas, Etc. Class 39.

294,119. KRAFTEX. Registered May 17, 1932. James Frank Dunleavy, Boston, Mass. Renewed May 17, 1952, to James Frank Dunleavy, Waltham, Mass. Filing Supplies—Namely, Folders, Guides, Cards, Indexes, Signals, Tabs. Class 37.

294,364. BROADCAST NEWS. Registered May 24, 1932. RCA Victor Company, Inc., Camden, N. J. Renewed May 24, 1952, to Radio Corporation of America, New York, N. Y., a corporation of Delaware. Publications Issued From Time to Time. Class 38.

294,484. BLUEBIRD. Registered May 31, 1932. Bluebird Diamond Syndicate, Inc., Chicago, Ill., a corporation of Illinois. Renewed May 31, 1952. Diamonds and Diamond Rings. Class 28.

294,520. SENIOR. Registered May 31, 1932. Standard Oil Company of New Jersey, Wilmington, Del. Renewed May 31, 1952, to Esso Standard Oil Company, New York, N. Y., a corporation of Delaware. Refined, Semirefined, and Unrefined Oils Made From Petroleum Both With and Without Admixture, Etc. Class 15.

294,560. HOME LIFE INSURANCE COMPANY. Registered May 31, 1932. Home Life Insurance Company, New York, N. Y., a corporation of New York. Renewed May 31, 1952. Bulletins and Pamphlets Published From Time to Time. Class 38.

294,758. "L'AUVERGNE LAITIÈRE" ETC. AND DESIGN. Registered June 7, 1932. Societe Anonyme L'Auvergne Laitiere, Aurillac, France, a corporation organized under the laws of the Republic of France. Renewed June 7, 1952. Cheese. Class 46.

294,860. BLUE LAKE. Registered June 7, 1932. Wm. G. Roe & Company, Inc. Renewed June 7, 1952, to Wm. G. Roe & Sons, Winter Haven, Fla., a firm. Fresh Citrus Fruits. Class 46.

295,013. ELECTROLIMIT GAGE. Registered June 14, 1932. Pratt & Whitney Company, Hartford, Conn. Renewed June 14, 1952, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey. Dimensional Gages. Class 26.

295,593. FLUFFS. Registered July 5, 1932. Julius Kayser & Co., New York, N. Y., a corporation of New York. Renewed July 5, 1952. Ladies' Underwear. Class 39.

295,730. MIGASOL. Registered July 12, 1932. Society of Chemical Industry in Basle. Renewed July 12, 1952, to Ciba Limited, Basel, Switzerland, a corporation organized under the laws of Switzerland. Chemical Products for Use as Auxiliary Agents in the Textile Industry—Namely, Dressing, Finishing, Etc. Class 52.

296,006. "BATES" AND DRAWING. Registered July 19, 1932. Bates Manufacturing Company, Lewiston and Augusta, Maine. Renewed July 19, 1952, to Bates Manufacturing Company, Lewiston, Maine, a corporation of Maine. Bed Spreads. Class 42.

296,535. EVENAIRE. Registered Aug. 9, 1932. Plastergon Wall Board Company, Buffalo, N. Y., a corporation of New York. Renewed Aug. 9, 1952. Thermal and Sound Insulating Wall Board. Class 12.

296,536. "EVENAIRE" AND DRAWING. Registered Aug. 9, 1932. Plastergon Wall Board Company, Buffalo, N. Y., a corporation of New York. Renewed Aug. 9, 1952. Thermal and Sound Insulating Wall Board. Class 12.

296,588. VITA-SEAL. Registered Aug. 16, 1932. The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Renewed Aug. 16, 1952. Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes. Class 16.

296,686. VOLUNTEER. Registered Aug. 16, 1932. R. E. Dietz Company, New York, N. Y. Renewed Aug. 16, 1952, to R. E. Dietz Company, Syracuse, N. Y., a corporation of New York. Portable Fire Extinguishers. Class 23.

296,893. "PERMAG" ETC. AND DESIGN. Registered Aug. 23, 1932. Magnuson Products Corporation, New York, N. Y. Renewed Aug. 23, 1952, to Magnuson Products Corporation, Brooklyn, N. Y., a corporation of New York. Soaps. Class 52.

296,897. "LA GOLONDRINA" AND DRAWING. Registered Aug. 23, 1932. Goldtree, Liebes & Co., San Salvador, Santa Ana, and Sonsonate, Salvador. Renewed Aug. 23, 1952, to Casa Goldtree Liebes & Co., San Salvador, Salvador, a firm of the Republic of Salvador. Wheat Flour. Class 46.

297,218. BETSY ROSS. Registered Sept. 6, 1932. Harvey Clap & Company. Renewed Sept. 6, 1952, to R. F. Simmons Company, Attleboro, Mass., a corporation of Massachusetts. Metal Articles of Jewelry for Personal Wear or Adornment, Not Including Watches. Class 28.

297,254. "SOUTHLAND'S GEORGIA MAID" ETC. AND DRAWING. Registered Sept. 6, 1932. Southland Coffee Company, Macon, Ga. Renewed Sept. 6, 1952, to Southland Coffee Company, Atlanta, Ga., a corporation of Georgia. Coffee. Class 46.

297,264. REEVE SELECT. Registered Sept. 6, 1932. B. M. Reeves Company, Inc., Brooklyn, N. Y., a corporation of New York. Renewed Sept. 6, 1952. Bottled Olives, Bottled Cherries, and Package Dates. Class 46.

297,469. DERMA-SAN. Registered Sept. 13, 1932. Huntington Laboratories, Inc., Huntington, Ind., a corporation of Indiana. Renewed Sept. 13, 1952. Disinfectant. Class 6.

297,514. "STREAK-O-LEAN" AND DESIGN. Registered Sept. 20, 1932. Geo. A. Hormel & Company, Austin, Minn., a corporation of Delaware. Renewed Sept. 20, 1952. Salt Pork. Class 46.

297,612. SYNTEX. Registered Sept. 20, 1932. Jones-Dabney Company, Inc., Louisville, Ky. Renewed Sept. 20, 1952, to Devoe & Raynolds Company, Inc., New York, N. Y., a corporation of New York. Ready-Mixed Lacquers, Varnishes, Paint Enamels, and Paints. Class 16.

297,632. REPRESENTATION OF CHECKERED BORDERS. Registered Sept. 20, 1932. A. P. W. Paper Company, Inc. Renewed Sept. 20, 1952, to A. P. W. Products Company, Inc., Albany, N. Y., a corporation of New York. Toilet Paper. Class 37.

297,860. REPRESENTATION OF MARTHA AND GEORGE WASHINGTON PORTRAITS. Registered Oct. 4, 1932. Martha Washington Candies Company, assignor to Elie Sheetz Candies Company. Renewed Oct. 4, 1952, to Martha Washington Candies Co., Chicago, Ill., a corporation of Illinois. Candies. Class 46.

297,901. "PUCCINI" AND PORTRAIT. Registered Oct. 4, 1932. B. Filippone & Co. Renewed Oct. 4, 1952, to B. Filippone and Co., Inc., Passaic, N. J., a corporation of New Jersey. Canned Peas, Canned Tomatoes, and Canned Tuna Fish, Salame, and Cheese. Class 46.

298,004. "RCA" ETC. AND DRAWING. Registered Oct. 11, 1932. RCA Victor Company, Inc., Camden, N. J. Renewed Oct. 11, 1952, to Radio Corporation of America, New York, N. Y., a corporation of Delaware. Radio Receiving Sets, Television Receiving Sets, Kits for Radio Receiving Sets, Etc. Class 21.

298,021. ARTEX. Registered Oct. 11, 1932. The American Oil Company, Baltimore, Md., a corporation of Maryland. Renewed Oct. 11, 1952. Motor Oils and Greases, Auto Oils and Greases for Lubricating Purposes, Oil and Greases for General Lubricating Purposes, Etc. Class 15.

298,029. "STEEPLECHASE" AND DESIGN. Registered Oct. 11, 1932. Bloomingdale Bros., Inc. Renewed Oct. 11, 1952, to Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware. Women's and Misses' Hats. Class 39.

298,095. IDA-DOWN. Registered Oct. 11, 1932. The Colorado Milling & Elevator Co., Denver, Colo., and Twin Falls, Idaho. Renewed Oct. 11, 1952, to The Colorado Milling & Elevator Co., Denver, Colo., a corporation of Colorado. Cake Flour. Class 46.

298,283. "LABRATEST" AND DESIGN. Registered Oct. 18, 1932. Bloomingdale Bros., Inc. Renewed Oct. 18, 1952, to Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware. Olive Oil Shampoo, Essence of Peppermint, Bay Rum West Indian, Etc. Class 51.

298,331. DU PONT MX. Registered Oct. 25, 1932. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed Oct. 25, 1952. Smokeless Shotgun Powder. Class 9.

298,418. "MILLBROOK CLUB" AND DRAWING. Registered Oct. 25, 1932. Millbrook Products Co. Renewed Oct. 25, 1952, to First National Stores Inc., Somerville, Mass., a corporation of Massachusetts. Nonalcoholic Maltless Beverages Sold as Soft Drinks. Class 45.

298,447. CLEMATIS. Registered Oct. 25, 1932. Fidalgo Island Packing Company, Anacortes, Wash. Renewed Oct. 25, 1952, to Fidalgo Island Packing Company, Seattle, Wash., a corporation of Maine. Canned Salmon. Class 46.

298,472. POND'S. Registered Oct. 25, 1932. Pond's Extract Company, New York, N. Y., a corporation of Delaware. Renewed Oct. 25, 1952. Paper Handkerchiefs. Class 37.

298,572. ROXITE. Registered Nov. 1, 1932. The Hollis-ton Mills, Inc., Norwood, Mass., a corporation of Massachusetts. Renewed Nov. 1, 1952. Cotton Piece Goods and for Filled and Finished Cotton Piece Goods Suitable for Use as Book Cloth, Window Shade Cloth, Etc. Class 42.

298,605. PARCO. Registered Nov. 1, 1932. Parker Rust Proof Company, Detroit, Mich., a corporation of Michigan. Renewed Nov. 1, 1952. Phosphoric Acid and Phosphate Compounds for Dissolving Rust From the Surface of Metal. Class 52.

298,641. "FRANKLIN RUSTFOIL" WITHIN DIAMOND DESIGN. Registered Nov. 1, 1932. The Franklin Oil & Gas Company, Bedford, Ohio, a corporation of Ohio. Renewed Nov. 1, 1952. Preparation for Prevention and Elimination of Rust. Class 52.

298,683. "FANCY MARK" AND DESIGN LINED FOR BLUE AND GREEN. Registered Nov. 1, 1932. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Nov. 1, 1952. Coffee. Class 46.

298,694. BURTON'S PIMACLOTH. Registered Nov. 1, 1932. Burton Brothers & Co. Inc., New York, N. Y., a corporation of New York. Renewed Nov. 1, 1952. Cotton Piece Goods. Class 42.

298,741. "OPERA" AND DESIGN. Registered Nov. 1, 1932. Mayers & Schiller, Inc. Renewed Nov. 1, 1952, to Schiller Bros., Inc., New York, N. Y., a corporation of New York. Ladies' Undergarments—Namely, Slips, Petticoats, and Pajamas. Class 39.

298,844. VOL DE NUIT. Registered Nov. 8, 1932. Guerlain Perfumery Corporation of Delaware, Wilmington, Del., and New York, N. Y. Renewed Nov. 8, 1952, to Guerlain, Inc., New York, N. Y., a corporation of New York. Perfumes. Class 51.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

177,941. A. W. FABER. Registered Jan. 1, 1924. A. W. Faber, Stein near Nuremberg, Germany. Lead Pencils, Pencil Holders, Colored Pencils, Etc. Class 37. Canceled Aug. 8, 1952. Canc. No. 5691.

307,611. DISMENOL. Registered Oct. 31, 1933. Aktien Gesellschaft fur Pharmazeutische Produkte, Lucerne, Switzerland. Pharmaceutical Preparation for Treatment of Menstrual Pains. Class 6. Canceled June 9, 1952. Canc. No. 5834.

322,990. THIOCAINE. Registered Mar. 26, 1935. Parke, Davis & Company, Detroit, Mich. Local Anesthetic. Class 6. Canceled July 23, 1952. Sec. 7(d).

323,446. ONOX. Registered Apr. 16, 1935. Odor-Nox Laboratories, Inc., Ltd., Los Angeles, Calif. Fungicide, Germicide, and Antiseptic Particularly Effective in the Treatment of Athlete's Foot. Class 6. Canceled June 18, 1952. Sec. 7(d).

357,397. HOLLYWOOD STAR. Registered June 7, 1938. Nu-Way Shoe Co. Inc., New York, N. Y. Women's and Children's Shoes, Made of Leather, Fabric and Combinations of Leather and Fabric. Class 39. Canceled May 29, 1952. Sec. 18.

364,640. ARCO. Registered Feb. 7, 1939. American Radiator Company, New York, N. Y. Wrought Copper and Other Metal Pipe Fittings. Class 13. Canceled June 9, 1952. Sec. 18.

376,050. TOWNSTER. Registered Mar. 12, 1940. The Printz-Biederman Company, Cleveland, Ohio. Women's Coats. Class 39. Canceled Aug. 8, 1952. Canc. No. 5856.

389,319. HENRY W. ALDEN. Registered July 29, 1941. Chicago Mail Order Company, Chicago, Ill. Men's and Boys' Suits and Overcoats, Underwear, Hosiery, Etc. Class 39. Canceled Aug. 8, 1952. Canc. No. 5696.

417,040. KENILWORTH. Registered Oct. 9, 1945. Pincus Brothers, Inc., Philadelphia, Pa. Suits, Coats, Vests, Pants, Etc. Class 39. Canceled Aug. 8, 1952. Canc. No. 5633.

443,815. ASCO. Registered Mar. 7, 1950. The Agricultural Supply Company, Spring Green, Wis. Mechanical Power-Driven Sprayers for Insecticides, Etc. Class 23. Canceled June 9, 1952. Sec. 18.

514,644. "SNUGPANT". Registered Aug. 30, 1949. College Maid Company, Inc., New York, N. Y. Ladies' Underwear. Class 39. Canceled Aug. 8, 1952. Canc. No. 5622.

525,172. LEATHER WARMER. Registered May 9, 1950. A. Davis & Sons, Inc., New York, N. Y. Ladies' and Misses' Coats and Jackets Having Leather Linings. Class 39. Canceled June 13, 1952. Canc. No. 5636.

543,295. GLOWYTE. Registered June 5, 1951. Gold Par Products Co., Inc., New York, N. Y. Laundry Soaps and Alkali Compound Detergents for Laundering. Class 32. Canceled Aug. 8, 1952. Canc. No. 5846.

558,575. AN ORIGINAL BY DAYNE. Registered May 6, 1952. Harry Camp Millinery Company, San Francisco, Calif. Ladies' Hats. Class 39. Canceled Aug. 4, 1952. Sec. 7(d).

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

87,580. FIANCEE. Registered July 23, 1912. Renewed July 23, 1932. Re-renewed July 23, 1952. The C. B. Woodworth Sons Co. Perfumes, Toilet Waters, Talcum-Powder, and Toilet Creams. Class 51 (formerly Class 6). New certificate under section 7(c) issued Sept. 16, 1952 to Bourjois, Inc., New York, N. Y., a corporation of New York.

532,035. BIS-CHEST. Registered Oct. 17, 1950. Heard & McCourry, a firm, Oklahoma City, Okla. Small, Portable Thermally Insulated Metal Chests With a Transparent Cover for Serving Food. Class 2. New certificate under section 7(c) issued Sept. 16, 1952 to T. C. McCourry, Oklahoma City, Okla.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 361,433. Registered Oct. 18, 1938. Friesche Coöperatieve Zuivel-Export-Vereeniging, kortheidshalve Frico, Leeuwarden, Netherlands, a cooperative association organized under the laws of the Netherlands. Republished by registrant.



For Casein.
Claims use since about November 1925.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 321,896. Registered Feb. 19, 1935. Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y., a corporation of New York. Republished by registrant.

LUBRITE
Bearing Alloys

For Bearing Alloys and White Metal Alloys Used as Anti-Frictional Media.
Claims use since Dec. 3, 1928.

Reg. No. 338,938. Registered Sept. 22, 1936. Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y., a corporation of New York. Republished by registrant.

SUPER SERVICE METAL

For Bearing Alloys, Babbitt Metals, and White-Metal Alloys, Used as Anti-Frictional Media.
Claims use since June 1924.

Reg. No. 361,898. Registered Nov. 1, 1938. Jackson-Wheeler Metals Service, Inc., Brooklyn, N. Y., a corporation of New York. Republished by registrant.

CADTEX

For Bearing Alloys, Babbitt Metals, and White-Metal Alloys, Used as Anti-Frictional Media.
Claims use since July 13, 1938.

CLASS 15

OILS AND GREASES

Reg. No. 385,283. Registered Feb. 25, 1941. Dryer, Clark & Dryer Oil Company, Oklahoma City, Okla., a corporation of Oklahoma. Republished by registrant.

HERCULES
100% PURE PARAFFIN BASE
MOTOR OIL
DRYER CLARK & DRYER OIL CO. OKLA. CITY

The descriptive term "100% Pure Paraffin Base," both occurrences of the term "Motor Oil," and "Okla. City" are all disclaimed apart from the mark as shown. The drawing is lined for the colors red and green.
For Motor Oil.
Claims use since June 8, 1926.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 386,333. Registered Apr. 1, 1941. Boyle & Company, Los Angeles, Calif. Republished by Boyle and Company, Los Angeles, Calif., a corporation of California.

VALTIVA

For Malt Compound Containing Liver Extract, Yeast, and Vitamins.
Claims use since Aug. 31, 1940.

Reg. No. 433,234. Registered Sept. 30, 1947. Boyle and Company, Los Angeles, Calif. Republished by Boyle and Company, Los Angeles, Calif., a corporation of California.

HEMASTHESIA

For Rectal Suppositories and Ointment for the Relief of Piles.
Claims use since June 1, 1937.

Reg. No. 433,238. Registered Sept. 30, 1947. Boyle and Company, Los Angeles, Calif. Republished by Boyle and Company, Los Angeles, Calif., a corporation of California.

ZALBEN

For Ointment for Treatment of Athlete's Foot and Fungus Infections.
Claims use since June 6, 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 171,019. Registered July 31, 1923. The A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin. Republished by registrant.

L&H

For Electric Stoves, Heaters, Sadirons, Curling Irons, Toasters, Broilers, Hot Plates, and Radiators.
Claims use since May 15, 1922.

Reg. No. 430,373. Registered June 10, 1947. The A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin. Republished by registrant.



For Electric Stoves and Ranges and Electric Ovens.
Claims use since Jan. 3, 1940.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 100,714. Registered Oct. 20, 1914. The A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin. Republished by registrant.

KEROCAS

For Oil Burning Cook Stoves and Ranges, Heaters, Burners for the Same and Wicks for Said Burners.
Claims use since Apr. 8, 1914.

Reg. No. 404,667. Registered Dec. 14, 1943. The A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin. Republished by registrant.



For Gas and Oil Cooking and Heating Stoves, Ranges and Ovens.
Claims use since 1923.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 428,865. Registered Apr. 8, 1947. George Baker, New York, N. Y. Republished by registrant, present address Beverly Hills, Calif.

THE SAD SACK

For Cartoons and Comic Strips.
Claims use since June 17, 1942.

CLASS 39

CLOTHING

Reg. No. 313,830. Registered June 12, 1934. Edward Shuwall & Co. Inc., Pottstown, Pa. Republished by I. Schneierson & Sons, Inc., New York, N. Y., a corporation of New York.



The word "Frocks" is disclaimed apart from the mark as shown.
For Children's Wash Frocks.
Claims use since Jan. 17, 1934.

Reg. No. 342,534. Registered Jan. 19, 1937. Brauer Bros. Shoe Company, St. Louis, Mo. Republished by Brauer Bros. Shoe Company (1941), St. Louis, Mo., a corporation of Missouri.

Free Step

For Women's Shoes of Leather, and Fabric and Leather.
Claims use since Nov. 7, 1935.

Reg. No. 367,398. Registered May 16, 1939. A. Sagner & Sons, Inc., Baltimore, Md. Republished by A. Sagner's Son, Baltimore, Md., a firm.

Minimax

For Men's Suits, Pants, and Overcoats.
Claims use since March 1932.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 289,787. Registered Dec. 8, 1931. Teakwood, Inc., Chicago, Ill. Republished by Bunte Brothers, Chicago, Ill., a corporation off Illinois.

TEAKWOOD

For Candy.
Claims use since March 1931.

Reg. No. 361,434. Registered Oct. 18, 1938. Friesche Coöperatieve Zuivel-Export-Vereeniging, kortheidshalve Frico, Leeuwarden, Netherlands, a cooperative association organized under the laws of the Netherlands. Republished by registrant.



For Butter, Cheese, Milk Powder, Buttermilk Powder, and Whey Powder.
Claims use since about Jan. 19, 1899.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 394,051. Registered Mar. 17, 1942. Samuel Bonat & Bro. Inc., Paterson, N. J., a corporation of New York. Republished by registrant.

Lifeglo

For Permanent Hair Waving Solution and Permanent Hair Waving Cream.
Claims use since about July 17, 1941.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 281,535. Registered Mar. 24, 1931. Joseph Handler, doing business as Handee Products Mfg. Co., Philadelphia, Pa. Republished by Globe Solvents Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania.

HANDEE KLEEN

For Dry Cleaners.
Claims use since January 1929.

PLANT PATENTS

GRANTED SEPTEMBER 16, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,128
LILAC PLANT
Walter Bosworth Clarke, San Jose, Calif., assignor to W. B. Clarke & Co., a corporation of California
Application September 19, 1951, Serial No. 247,329
1 Claim. (Cl. 47—60)

A new and distinct variety of *Syringa vulgaris* plant with features in combination substantially as shown and described, characterized by the Fuchsia mauve coloring of its buds progressively changing into the distinctive nearly white pale lavender of the full-blown flowers.

1,129
CHRYSANTHEMUM PLANT
Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application September 28, 1951, Serial No. 248,791
1 Claim. (Cl. 47—60)

A new and distinct variety of chrysanthemum plant, substantially as herein shown and described, characterized as to novelty by its early-blooming habit, by the relatively large size and Oxblood Red color of its semi-decorative type blooms, and by the frost-resistance of its blooms.

1,130
CHRYSANTHEMUM PLANT
Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application September 28, 1951, Serial No. 248,792
1 Claim. (Cl. 47—60)

A new and distinct variety of chrysanthemum plant, substantially as herein shown and described, characterized as to novelty by its hardy, decorative type flowers, by the relatively large size of its white flowers of long-lasting quality, by the graceful appearance and irregular arrangement of the flower petals, by its early-blooming habit, and by its freedom of bloom and repetition.

1,131
CHRYSANTHEMUM PLANT
Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application September 28, 1951, Serial No. 248,793
1 Claim. (Cl. 47—60)

A new and distinct variety of chrysanthemum plant, substantially as herein shown and described, characterized as to novelty by its vigorous and upright habits of growth, by its hardiness and its early-commencing and prolonged blooming habits, and by the distinctive color of its very double, semi-decorative type blooms.

1,132
CHRYSANTHEMUM PLANT
Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application September 28, 1951, Serial No. 248,794
1 Claim. (Cl. 47—60)

A new and distinct variety of chrysanthemum plant, substantially as herein shown and described, characterized as to novelty by its vigorous, strong, upright, tall and free-blooming habits of growth, by its exceptional hardiness and its early-commencing and prolonged blooming habit, and by the predominant pink color of its semi-decorative type flowers.

1,133
ROSE PLANT
Svend Poulsen, Copenhagen-Valby, Denmark, assignor to The Conard-Pyle Company, West Grove, Pa., a corporation of Pennsylvania
Application September 26, 1951, Serial No. 248,316
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid polyantha class, as herein shown and described, characterized as to novelty by its relatively large, open flowers which are initially yellow in color, but which become shiny white, particularly when sun-struck, and by its habit of bearing its flowers on top of sizable, sturdy, compact, well-balanced bushes of shapely structure.

1,134
ROSE PLANT
Milton L. Whisler, Van Nuys, Calif., assignor to Germain's, Inc., Van Nuys, Calif., a corporation of California
Application September 26, 1951, Serial No. 248,296
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized as to novelty by its bushy and branching habits of growth, by the unusually large flower petals and length of the buds, and by the abundance of its blooms of Rose Madder general color tonality.

1,135
ROSE PLANT
Milton L. Whisler, Van Nuys, Calif., assignor to Germain's, Inc., Van Nuys, Calif., a corporation of California
Application September 26, 1951, Serial No. 248,294
1 Claim. (Cl. 47—61)

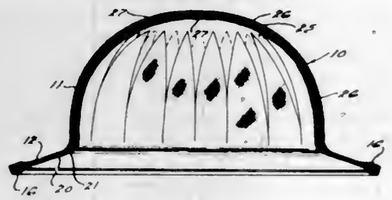
A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized as to novelty by the bright yellow color of its flowers and their ability to hold their color in hot weather, and by the vigor of growth of the plant and its consequent tendency to produce long, strong stems on which the flowers are borne.

PATENTS

GRANTED SEPTEMBER 16, 1952

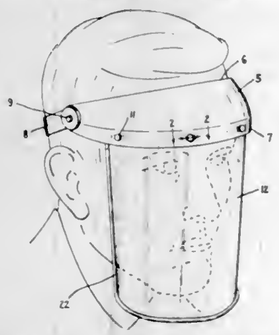
GENERAL AND MECHANICAL

2,610,322
HELMET
Le Grand Daly, Birmingham, Mich.
Original application February 5, 1943, Serial No. 474,867. Divided and this application April 2, 1947, Serial No. 738,773
2 Claims. (Cl. 2—3)



2. A helmet molded from a plurality of plastic impregnated pieces of substantially unstretchable fabric, said helmet having moldably embedded into its unitary structure at least one crown piece forming the helmet crown, and at least one substantially round brim piece having a radially slitted central portion overlapping said crown piece for a substantial distance and having a continuous outer edge.

2,610,323
FACE PROTECTIVE DEVICE
John Oliver Johnson, St. Louis, Mo., assignor to American Optical Company, Southbridge, Mass,. a voluntary association of Massachusetts
Application July 28, 1950, Serial No. 176,417
5 Claims. (Cl. 2—8)



1. A device of the character described comprising a shield member shaped to overlie the face of a wearer, a supporting member therefor adapted to be held in position on the head of said wearer, one of said members having spaced axially aligned elongated slots extending in a direction transversely thereof, and spaced connection means by which the shield member may be detachably connected with the supporting member therefor, said connection means each embodying a first part affixed to one of said members at a location in substantial alignment with one of said slots, and a second part having a stud portion extending through the slot provided in the other member with which said first part is substantially aligned, said elongated slots being of a length greater than the diameter of said respective stud portions, and said stud portions further having plate-like portions disposed to overlie the opposed surfaces of the slotted member and being spaced apart a distance slightly greater than the thickness of the slotted member whereby the shield member and supporting member therefor are free to shift relative to each other to avoid distortion of the shield member when in said connected relation with the supporting member.

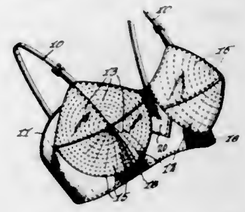
2,610,324
CONTROL PANEL FOR FOUNDATION GARMENTS
Bernard John Dowd, Fitzroy, near Melbourne, Victoria, Australia
Application July 26, 1951, Serial No. 238,640
In Australia October 16, 1950
5 Claims. (Cl. 2—27)



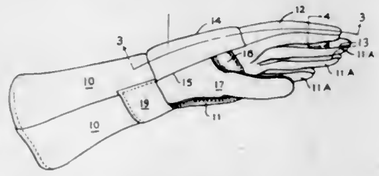
1. A foundation garment of the type herein specified comprising a body composed of and formed by a single blank or length of two way stretch fabric including courses of elastic yarn and having an integral front panel of double thickness comprised of two end sections of the blank so disposed that the courses of the elastic yarn of the respective end sections are oppositely inclined whereby an inward pressure and upward directed pull are exerted upon a wearer's abdominal region for figure correction.

2,610,325
SACHET POCKET FOR BRASSIERES
Joseph Schlussel, New York, N. Y.
Application June 29, 1950, Serial No. 171,201
1 Claim. (Cl. 2—42)

In combination, a brassière having adjacent bust receiving pockets having outer edges, binding tapes stitched in position about the outer edges of said pockets, an elongated fabric strip for each pocket having free end edges, said strips being folded upon themselves aligning their free end edges, said strips having their free end edges inserted in position between said pockets and said tapes, and secured in position, said fabric strips being located so that they extend radially into the pockets with their fold lines substantially vertically, and lines of stitches closing the bottom edges of said fabric strips leaving the top edges open providing pockets adapted to retain satchet inserted through the open top edges thereof.



2,610,326
WELDER'S GLOVE
Irene E. Sabin, Youngstown, Ohio, assignor to Sabin Company Gloves, Youngstown, Ohio, a corporation of Ohio
Application April 17, 1950, Serial No. 156,314
5 Claims. (Cl. 2—161)



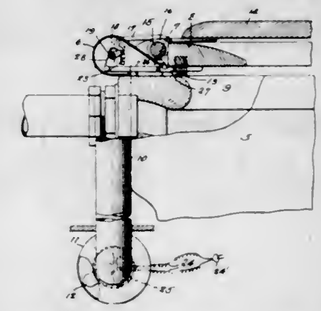
1. In a welder's glove comprising the usual back, palm and cuff portions, narrow finger extensions on the palm portion and a plurality of relatively wide finger back sections portions of which are secured to one another and to the sides of the palm portion by longitudinal seams, inturned seams securing the remaining portions of the finger back sections to the narrow finger extensions, a back guard section comprising a piece of material secured on the outer side of the back portion of the glove by inturned seams at both sides of the glove and transverse seams at both ends of the guard and overlying the first mentioned longitudinal seams between the finger back sections and with said material loosely overlying the glove back.

2,610,327
METHOD OF REINFORCING GARMENTS
Hyman Koppel, Revere, Mass.
Application March 24, 1948, Serial No. 16,737
1 Claim. (Cl. 2—243)



That method of reinforcing a garment part by the application thereto of a reinforcing tape which comprises as steps assembling the tape and garment part by laying the tape progressively along one edge of the garment part and, while so progressively laying the tape, uniting one edge of the tape to the garment part by through-and-through stitches all of substantially the same predetermined length and made by a straight sewing needle while concomitantly uniting the opposite edge of the tape to the garment part by blind stitches made by the use of a curved needle, the latter stitches all being of substantially the same length but exceeding the through-and-through stitches in length so as to provide more stitches per linear inch in one seam than in the other, said blind stitches passing through the tape but failing to pass completely through the material of the garment part, the opposite edges of the tape being progressively anchored to the garment as the sewing operation proceeds in order that there is no chance for the tape to be unduly contracted along one edge so as to curl or twist before its opposite edge is properly anchored.

2,610,328
VENTILATED TOILET BOWL
Russell H. Miller, Hutchinson, Kans.
Application December 16, 1948, Serial No. 65,569
3 Claims. (Cl. 4—213)

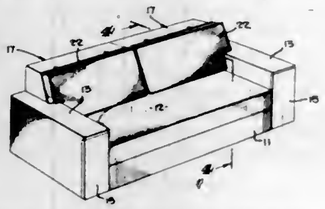


2. The combination with the hinged seat and cover of a toilet bowl, of a ventilating attachment comprising a suction intake housing having an open side communicating with space between the seat and upper edge of the bowl, a suction pipe connected with the intake housing, a motor operated suction fan operating within the pipe adapted to draw gases from the bowl, a wiring system providing an electric circuit between the fan motor and source of electricity supply, a mercury switch in the circuit pivotally mounted within the housing adapted to complete the circuit to the fan upon upward movement of the cover, an arm connected with the cover, means for transmitting movement of said seat cover through said arm, to said mercury switch partially tilting said switch, an operating arm extending into the housing with one end engaging the seat and a switch actuating arm mounted on the other end of the operating arm and engaging said switch and moving the switch to its limit to complete the circuit to the fan when pressure is directed to the seat and operating arm.

2,610,329
CONVERTIBLE BED AND DAVENPORT
John Strathaus, San Fernando, Calif.
Application January 14, 1949, Serial No. 70,857
5 Claims. (Cl. 5—59)

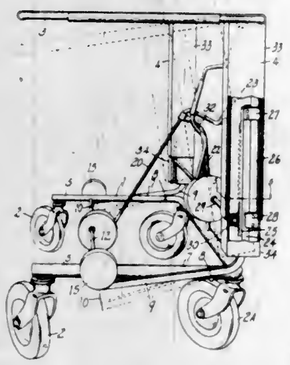
1. In an article of furniture convertible to either a bed or a sofa, a frame, a seat mattress supported by said frame, end members rigid with said frame and spaced apart for the reception of said mattress extending lengthwise therebetween, the tops of said end members being higher

than the upper surface of said mattress, a pair of back supports pivotally mounted at opposite ends of said frame and adjacent one side thereof and spaced vertically from said seat mattress by a distance at least as great as the difference in height between the tops of said end members and the upper surface of said mattress, said back member being adapted for pivotal movement op-



tionally to aligned positions above said one side wherein said back supports form a virtually continuous back support for a sofa or over said end members to positions removed from above said mattress, and upholstery members supported by said back supports and adapted to extend therefrom to said seat mattress when said back supports are in said first-mentioned positions.

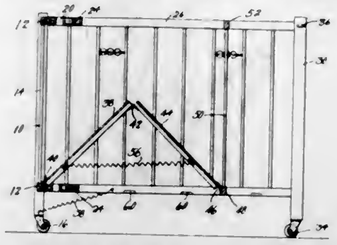
2,610,330
WHEELED TABLE FOR TRANSFERRING INVALIDS
Jay E. Sutton, Detroit, Mich.
Application April 25, 1949, Serial No. 89,464
10 Claims. (Cl. 5—86)



10. An invalid carrying device comprising a wheeled base, an upright pivoted to said base near one side thereof and having a lower branch projecting forwardly from said pivot, means carried by said base and engageable with the forward end of said branch for tilting said upright, and a table supported from its rear edge by said upright.

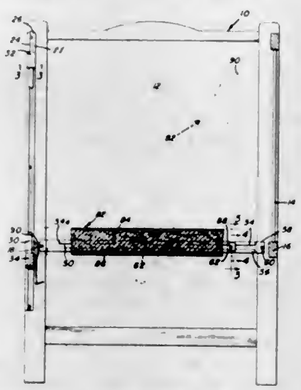
2,610,331
FOLDING PLAY YARD
Carl A. Kuniholm, Gardner, Mass., assignor to Annett Box Company, Jaffrey, N. H., a corporation of New Hampshire
Application May 23, 1949, Serial No. 94,761
3 Claims. (Cl. 5—99)

2. A folding play yard comprising a pair of walls arranged generally parallel to each other, a multiple part folding floor hinged between and to both said walls, one wall being movable to and from the other wall, a pair of in-folding side walls hingedly secured to one of the first named walls, means detachably connecting the movable



wall to the free ends of the in-folding side walls, and separate coil means to fold the floor parts and in-folding side walls.

2,610,332
COMBINATION CRIB AND PLAYPEN
John J. Field, Pocatello, Idaho
Application December 22, 1950, Serial No. 202,255
2 Claims. (Cl. 5—100)

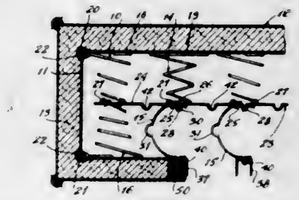


1. A combination crib and play pen comprising a pair of end members and a pair of side members between the end members, horizontal guide tracks on the end members, a support having first and second surfaces, means carried by the support slidably and rotatably mounted on said guide tracks to permit a selected surface of said support to be exposed for use, and means carried by the support for selectively engaging one of said side members to retain the support in a substantially horizontal position, said first mentioned means including a pair of blocks each having a peripheral groove, said guide tracks having flanges received in said grooves, said blocks also having axial bores, and sleeves journaled for rotation in said bores and detachably secured to said support.

2,610,333
INNERSPRING MATTRESS CONSTRUCTION
James Pillero, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware
Application March 15, 1949, Serial No. 81,499
13 Claims. (Cl. 5—351)

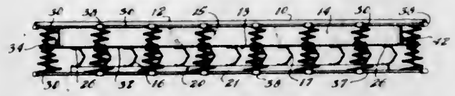
1. In a mattress construction, an innerspring unit including coil springs arranged in adjacent relation throughout a rectangular area of the unit having their axes disposed parallel and in vertical relation, bowed spring members having their axes disposed horizontally and at right

angles to the vertical axes of the coil springs, and a frame structure on which said coil springs are mounted and secured with the upper convolutions thereof being free to flex and yield down-



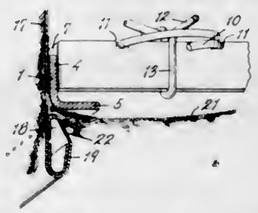
wardly and laterally about their axes respectively and to which frame structure the upper ends of the bowed spring members are secured for resiliently supporting the frame structure and the coil springs thereon.

2,610,334
MATTRESS CONSTRUCTION
James Pillero, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware
Application July 20, 1949, Serial No. 105,852
6 Claims. (Cl. 5—351)



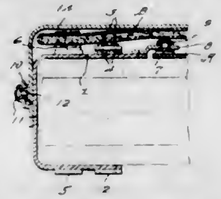
1. In a mattress construction, an upper body of resilient cellular material having a marginal recess extending continuously about the sides and ends thereof, an inner spring structure including a series of springs supporting the upper body inwardly of the recess, a border row of coil springs surrounding said series of springs and disposed with their upper ends located in said marginal recess and supporting the outer portions of the upper body above said marginal recess, and frame means connecting said series of springs and said coil springs together.

2,610,335
SPRING STRUCTURE
Americo Baptista, Oakland, Calif., assignor to L. A. Young Spring & Wire Corporation, Detroit, Mich.
Application July 19, 1948, Serial No. 39,498
11 Claims. (Cl. 5—354)



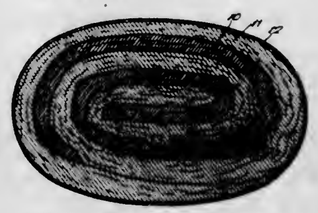
1. In a spring structure the combination of a base frame comprising side and end members of angle section disposed with the arms of the angles facing inwardly and upwardly, the corners of said frame being curved, cross bars having their ends secured to the vertical arms of opposed frame members with their lower edges in spaced relation to the horizontal arms of the frame members, body springs mounted on said cross bars, upholstery disposed on said springs and including a covering having skirt portions with pockets in their bottom edges, elongated upholstery attaching members of U-section for clampingly embracing the horizontal arms of the base frame disposed in said pockets, the pockets being of a width substantially exceeding the width of the attaching members providing slack, said slack providing folds in the walls of the pockets within the attaching members and around the inner edges of the horizontal arms of the base frame, and a bottom closure sheet having its edges underlapping the base frame, and portions thereof folding within said attaching members with said pocket walls, the attaching members being springable to clampingly secure the upholstery skirt and the bottom sheet in snubbing engagement with the base frame, an opposed pair of said attaching members having curved ends for securing the upholstery and bottom sheet at the corners of the base frame.

2,610,336
MATTRESS PROTECTOR
Louis Schworm, Jr., Washington, D. C., assignor to Swormco, Inc., a corporation of Delaware
Application September 27, 1949, Serial No. 118,066
2 Claims. (Cl. 5—354)



1. In a mattress protector, a sheet of a moisture-proof material overlaying a major length of the mattress, aprons detachably connected with the end portions of said sheet and extending about the ends of the mattress for tucking beneath the same, a pad of an absorbent material overlaying said sheet and the connected end portions of said aprons, a sheeting overlaying said pad and having its end portions extending beyond the ends of the same and depending along with the downwardly directed portions of the aprons over the ends of the mattress, and separable fastenings connecting the edges of the end portions of said sheeting to the outer sides of the latter portions of said aprons.

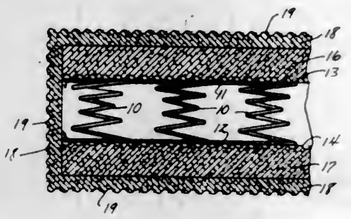
2,610,337
CUSHION
James R. McMillin and William Sakarash, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware
Application August 27, 1949, Serial No. 112,668
9 Claims. (Cl. 5—361)



8. A cushion comprising a jelly-roll arrangement of bonded and unbonded layers of glass

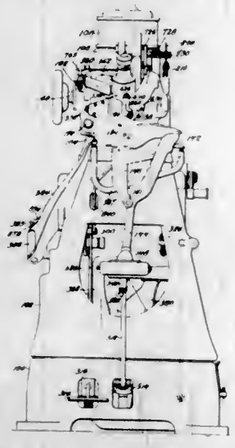
fibers, the bonded layers containing 5–25 percent by weight of resinous material to secure the fibers together into a highly porous, resilient mass, the fibers in the unbonded mass being free of resinous material and lubricated with 1–10 percent by weight lubricant to form a soft, fluffy, highly porous mass, and a ticking enclosing the jelly-roll layers.

2,610,338
PROTECTIVE FIRE RESISTANT COVERING FOR MATTRESSES
Robert J. Taylor, Birmingham, Ala., assignor to The Perfection Mattress & Spring Company, a corporation of Alabama
Application March 10, 1947, Serial No. 733,504
1 Claim. (Cl. 5—361)



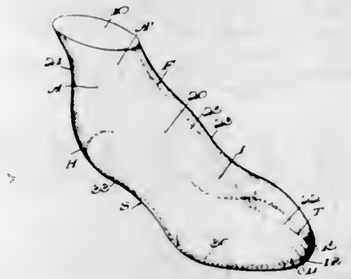
In a mattress having a cotton filling, a layer of fiber glass at least three-eighths of an inch thick surrounding the cotton filling, and a fire resistant envelope over the said layer comprised of cotton fabric embodying a phosphate ester of cellulose.

2,610,339
SHOE MACHINE
Alfred R. Morrill, deceased, late of Woodstock, Vt., by Ruth W. Morrill, administratrix, Woodstock, Vt., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application May 15, 1946, Serial No. 669,830. Divided and this application October 27, 1948, Serial No. 56,767
14 Claims. (Cl. 12—1)



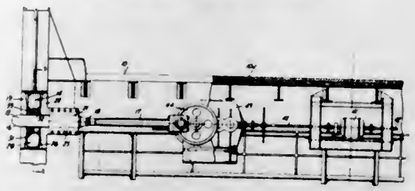
9. In a machine for operating upon shoes, an inseam shoe sewing mechanism for sewing the upper to the welt and insole of a shoe supported on a last, a lasting mechanism comprising a lasting gripper operable to tension successive portions of the upper for the sewing mechanism, trimming mechanism including a knife operable to trim a sewn portion of the seam, a channel guide for guiding the shoe with relation to said mechanisms, a shoe supporting jack, and supporting and actuating mechanism for the jack including means for yieldably engaging the stitch receiving channel of the shoe supported on the jack against said channel guide constructed and arranged to present said shoe to the sewing, lasting and trimming mechanisms, and for imparting, tipping, turning and feeding movements to the jack about said point of engagement with the channel guide to transfer the operation of said mechanisms about the sole margin of the shoe.

2,610,340
PLASTIC SHOE DISPLAY FORM
Stanley Nettler, Great Neck, and Mario Maccaferri, Rye, N. Y.; said Maccaferri assignor to said Nettler
Application January 26, 1951, Serial No. 208,008
2 Claims. (Cl. 12—128)



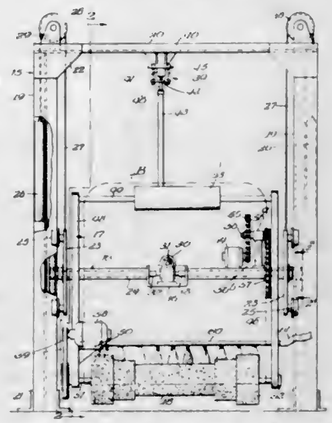
1. As a new article of manufacture, a shoe display form comprised of a one-piece, thin-walled, seamless hollow body structure molded from a thermoplastic material; said body structure providing a foot portion including a toe portion and a heel portion; said body structure being closed at the top side thereof by a wall integral therewith and disposed transversely thereacross in continuous integral jointure with said body structure; said body structure being open at the bottom side thereof and being formed with an inturned flange integral therewith and extended around the open bottom side thereof; and said flange around the heel portion of said body structure being curved inwardly on a radius of curvature greater than the radius of curvature of said inturned flange around said toe portion.

2,610,341
BASCULE BRIDGE LOCK
Harold H. Gilbert, San Carlos, Calif.
Application September 12, 1949, Serial No. 115,225
5 Claims. (Cl. 14—41)



2. In a bascule bridge construction, a pair of pivoted bridge members whose ends are adapted to meet when the bridge is in lowered position, a lock for said bridge members comprising a pair of pins, each of said pins being slidably mounted on one of said members, a pair of spaced pin guide supports mounted on said member and receiving said pins when they are moved transversely with respect thereto, a pair of means on the other member each of which is adapted to be positioned in a slot in one of said guide supports and to receive one of said pins, said means including a pair of loosely mounted members having a slot to receive said pins and adapted to accommodate themselves with respect to said pins when said pins are received therein.

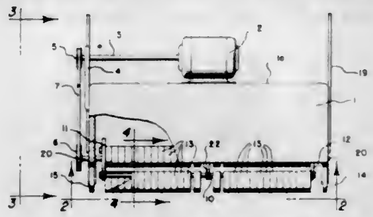
2,610,342
VEHICLE WASHING APPARATUS
Clyde C. Griffiths, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois
Application December 31, 1946, Serial No. 719,508
9 Claims. (Cl. 15—21)



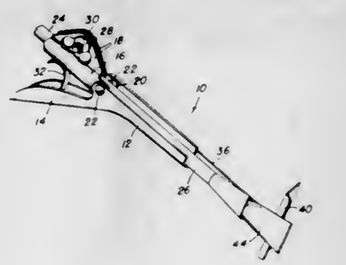
1. An apparatus adapted to wash a vehicle as the latter is moved past it and comprising an upstanding supporting structure of greater height than the vehicle, a carriage mounted on the supporting structure so that it is slidable bodily upwards and downwards, a horizontal brush carried by the carriage so that it extends transversely across the path of travel of the vehicle, and adapted when the front portion of the vehicle is positioned adjacent the supporting structure and the carriage is slid upwards to sweep across and wash said front portion of the vehicle, when the carriage is retained in an elevated position and the vehicle is moved past the supporting structure to engage and effect washing of the roof portion of the vehicle, and when the carriage is slid downwards after the vehicle passes said supporting structure to sweep downwards across and wash the rear portion of the vehicle, and power means operative to slide the carriage upwards and downwards relatively to the supporting structure and embodying a reversible electric motor on said carriage.

2,610,343
PORTABLE RUG OR CARPET CLEANER
Ralph J. Willis, Oceanside, Calif.
Application November 24, 1947, Serial No. 787,761
4 Claims. (Cl. 15—92)

1. In a portable rug or carpet beating machine of the class described, the combination of a plurality of spaced substantially parallel shafts, means mounting said shafts for rotation about an axis centrally of said a plurality of shafts and a plurality of flexible resilient rings of a readily yieldable material on said shafts having openings therein equal to several diameters of said shafts, said flexible rings being yieldable in directions radially of each of said rings.



2,610,344
BRUSH HOLDER AND GUIDE
Martin A. Gaffer, Goshen, and Edward J. Gaffer, Fort Wayne, Ind.
Application October 26, 1948, Serial No. 56,574
1 Claim. (Cl. 15—166)

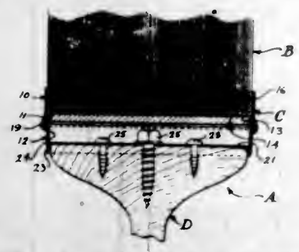


In a striping device, the combination of a channel-shaped holder having an open side and open upper and lower ends, an extension arm secured to said holder and projecting downwardly therefrom, a guide provided at the lower end of said arm, an upwardly and outwardly extending finger piece provided integrally at the upper end of said holder, a split tubular clamp provided at one end thereof with a pair of spaced lugs pivotally connected to the upper end portion of the holder, a brush including a handle secured in said clamp and swingable in and out of said holder through the open side of the latter, a bristle head at the lower end of said handle adjacent said guide, and resilient means interposed between said clamp and said finger piece for urging said handle into the holder.

2,610,345
BRISTLE AND HANDLE RETAINING UNIT FOR BRUSHES
Lewis W. Simms, Fairville, New Brunswick, Canada
Application October 29, 1946, Serial No. 706,404
1 Claim. (Cl. 15—171)

In a brush, a ferrule, a cupped bristle securing element within said ferrule with its bottom surface extending across said ferrule to form a bristle locating surface, bristles banded by said ferrule with their butt ends located by said bristle locating surface, a cementitious material within said ferrule and engaging said cupped bristle securing element to secure the butt ends of said bristles within said ferrule, handle means, a cupped handle retaining means within said ferrule with its

bottom surface extending across said ferrule to form a handle locating surface, said handle having an end flat surface that co-operates with the bottom of said cupped handle retaining means and means for securing said handle to the bottom



of said handle retaining means, the edges of said cupped bristle securing element and the edges of said cupped handle retaining means each being outwardly flared and in abutment with each other, said ferrule being formed to lock said abutting outwardly flared flanged together.

2,610,346
MOLDING MOP
Laura S. Pugh, Smyrna, Tenn.
Application August 19, 1947, Serial No. 769,391
1 Claim. (Cl. 15—210)



A dust mop for moldings comprising an elongated handle, a pivot carried by said handle adjacent one end thereof and projecting laterally therefrom, an elongated block pivotally supported adjacent one end on the pivot for movement in an arcuate path adjacent one side of the handle, that portion of the block extending below said pivot overbalancing that portion of the block which extends above the pivot, a plate secured to said block at the end thereof adjacent the pivot and extending laterally therefrom away from the handle, the plate and block defining an L-shaped support for a cleaning member, and an L-shaped cleaning pad secured to and overlying the plate and block on the side of the block remote from the handle.

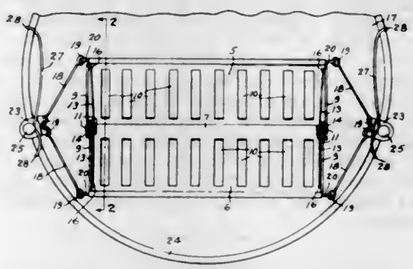
2,610,347
SWABBING DEVICE WITH DISPOSABLE SWAB
Israel S. Kleiner, New York, N. Y.
Application November 18, 1947, Serial No. 786,666
1 Claim. (Cl. 15—210)

A cleansing device for toilet bowls comprising a tubular member, a rod slidably mounted therein, said rod being of greater length than the tubular member, a handle having a diameter greater than the inside diameter of the tubular member mounted at one end of said rod, said handle being adapted to serve as a stop to limit movement of the rod into said tube, a spring capable of manual manipulation encircling the rod between the handle and tubular member, said spring being adapted to exert pressure against the handle at one end of the rod to hold the handle away from the tube and posi-



tion the other end of said rod within the tube, said tube having an end portion in which the shell of the tube is continuous and of uniform diameter and said end portion being adapted to fit snugly into and frictionally engage a preformed socket in a fibrous swab without distortion thereof whereby the swab may be frictionally held at the end of the tube for cleaning toilet bowls and manually discharged by moving the handle against the action of the spring to move the rod beyond the end of the tube.

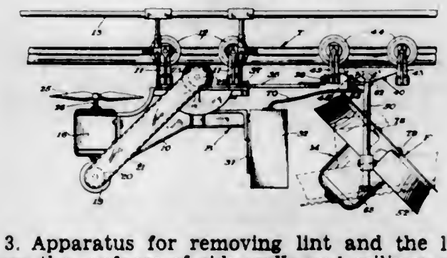
2,610,348
DIVERGENT PLATE, LINK SUPPORTED, MOP PRESSURE ACTUATED MOP WRINGER
David Jenkins, Seattle, Wash.
Application February 26, 1948, Serial No. 10,970
4 Claims. (Cl. 15—261)



1. A mop wringer for use in a mop pail comprising two rectangular perforated plates having two adjoining lower edge portions and positioned at a divergent angle relative to each other to

provide a V-shaped receptacle between said plates; pivot means pivotally connecting the two adjoining lower edge portions of said plates for relative angular movement of the plates; spring means urging said plates apart; and two pairs of links connected respectively with the end portions of the plates and operable to suspend the plates within a mop pail, the two links of each pair having their lower end portions pivotally connected respectively with the two plates near the upper edges of the plates and said two links of each pair converging upwardly and having their upper end portions pivotally supported by the pail whereby downward pressure of a mop in said V-shaped receptacle will angularly move said plates together and compress the mop.

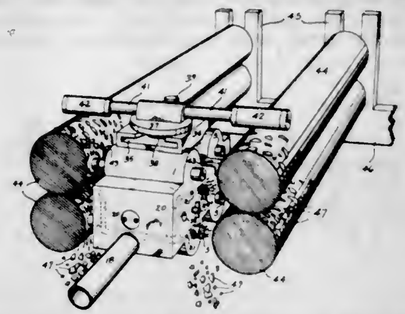
2,610,349
SUSPENDED TRAVELING BLOWER FOR REMOVING LINT AND THE LIKE FROM WALL SURFACES OF TEXTILE MILL ROOMS
Ralph T. Moore, Lakewood, Ohio, assignor to The American Monorail Company, Cleveland, Ohio, a corporation of Ohio
Application April 16, 1948, Serial No. 21,441
7 Claims. (Cl. 15—312)



3. Apparatus for removing lint and the like from the surfaces of side walls and ceilings of a textile mill room comprising a trolley to run on an overhead track adjacent to at least one surface to be cleaned, an inverted U-shaped hanger suspended from said trolley and rotatable about a vertical axis, an annulus mounted in said hanger and rotatable about a horizontal axis, a motor, means within said annulus for supporting said motor with its shaft substantially coaxial with said annulus, a fan on the motor shaft and disposed within said annulus, said annulus serving to direct air into said fan, and means for reciprocating said hanger about a vertical axis through an angle of about 120°, said means comprising a lever connected to said hanger, a shorter lever, means rotatably supporting said shorter lever and supported by said trolley, a link connecting the free ends of said levers, and means for rotating said shorter lever.

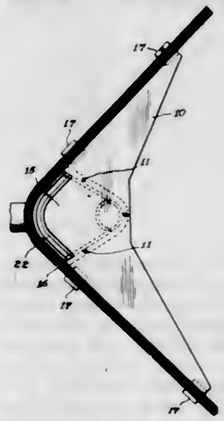
2,610,350
PNEUMATIC HAMMERING MACHINE FOR CLEANING ROLLERS
Willis E. Smith, Springfield, Oreg.
Application April 20, 1948, Serial No. 22,040
6 Claims. (Cl. 15—382)

1. A device for cleaning rollers comprising, an elongated body having transversely arranged cylinders therein, said elongated body being positionable so that each transverse cylinder lies between two opposed rollers which are to be cleaned, a reciprocable piston operatively carried in each transverse cylinder, piston rods on said pistons extending t' rough the sides of said body for intermittently contacting the rollers to be cleaned, valve means connecting said cylinders and a source of fluid pressure for reciprocating said pistons, swivel means detachably mounted on said body, and arms extending from said



swivel means for movably suspending said cleaning device upon the rollers to be cleaned.

2,610,351
SQUEEGEE NOZZLE ATTACHMENT FOR VACUUM CLEANERS
Howard C. Lilly, Sharon, Mass., assignor to Masury-Young Company, Charlestown, Mass., a corporation of Massachusetts
Application September 3, 1947, Serial No. 771,975
4 Claims. (Cl. 15—401)

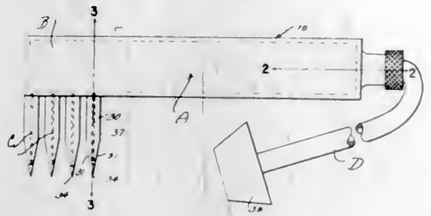


3. A squeegee nozzle device for vacuum cleaners comprising a flat plate having arms diverging forwardly from an arcuate apex, a squeegee unit secured to the rear margins of said arms of the plate and around the arcuate apex with the squeegee projecting below said plate, a suction nozzle having spaced walls depending from the flat plate into close proximity to the floor forwardly of and in closely spaced relation to the arcuate apex of the squeegee, means defining a suction passage extending along the top of the plate from the nozzle forwardly from the apex, and means on the top of the flat plate and forwardly of the apex for mounting the device on a manipulating handle with the passage in suction communication with the handle.

2,610,352
DANDRUFF REMOVING APPLIANCE
Joshua Garner, Englewood, N. J.
Application November 17, 1948, Serial No. 60,462
3 Claims. (Cl. 15—402)

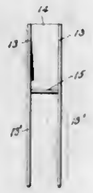
1. In a dandruff removing appliance the combination of an elongated body portion having a

compartment therealong wherein a vacuum is adapted to be produced, and a plurality of teeth connected upon the body portion extending transversely thereto, each of said teeth being provided at its free ends with a plurality of relatively



spaced projections and an unobstructed recess therebetween and each tooth having a plurality of ducts extending therethru communicating with the compartment of the body portion and opening into the recess of the tooth adjacent to the respective projections thereof.

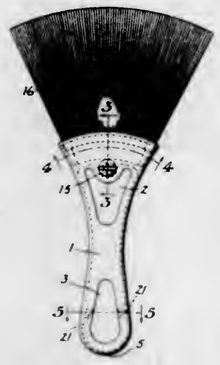
2,610,353
DETACHABLE DRAWER STOP
Joseph F. Hufnagel, Los Angeles, Calif.
Application July 22, 1949, Serial No. 106,158
1 Claim. (Cl. 16—82)



A drawer stop as shown consisting of a channel-like member having side walls and a rear wall connecting said side walls, said side and rear walls providing an upper portion which is substantially square in cross section, the side walls being extended to form two spaced legs to straddle a drawer wall, and said rear wall having its lower end struck in to form a horizontal lip between said side walls to rest upon the top edge of said drawer wall, said two spaced legs being heavier than the upper portion to swing by gravity to vertical position with the upper ends of said side walls and said rear wall constituting the stop on said drawer.

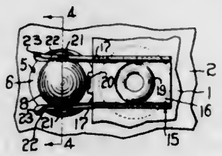
2,610,354
DETACHABLE HANDLE
Roy C. Howell, Lakewood, Ohio
Application January 31, 1950, Serial No. 141,389
3 Claims. (Cl. 16—114)

1. A handle comprising two sections of the same size and shape and having opposed inner faces provided with widened recessed clamping portions at one end and engageable portions at the opposite end, said faces having interfitting projecting and recessed portions adjacent said opposite end for restricting relative movements of said engaging ends, said projections being rounded to provide a bearing upon which said sections may rock, each section having a centrally disposed opening adjacent its clamping portion and inwardly thereof, and a pressure applying connector extending through said openings, said connector comprising a tubular internally threaded body having a head engageable with the outer face of one section and



a screw threaded into said body and having a head engageable with the outer face of the other section.

2,610,355
FRICTION HINGE
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application February 25, 1948, Serial No. 10,630
1 Claim. (Cl. 16—142)

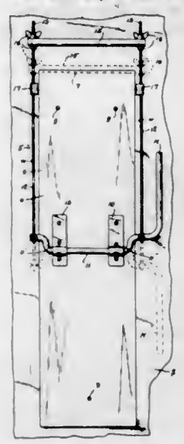


A ball and socket type mounting for movably connecting a part to a support comprising a post having a support-engaging flange adapted to be secured to a support and having a hollow spherical head adapted to receive an attaching member, a fastener member having a relatively flat base portion adapted to be secured to a part to be supported, a pair of spaced flanges secured to said base portion and extending beyond an edge thereof providing freely extending resilient end portions thereon, said end portions having opposed concave seats therein engaging opposed convexed surfaces of said spherical head, the radius of curvature of said seats being less than the radius of curvature of said head whereby said end portions resiliently engage said head through opposed annular lines of contact.

2,610,356
GAME SKINNING RACK
Robert L. Holton, Beggs, Okla.
Application September 20, 1949, Serial No. 116,805
4 Claims. (Cl. 17—8)

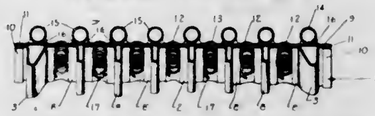
1. A skinning rack comprising, a base having a laterally extending groove in its upper end, a crank journalled on the face of the base, a clamping rod seated in the groove and having holes in its opposite ends, links connected to opposite ends of the crank and having threaded upper ends extending through the holes in the clamping rod, nuts threaded on the upper ends of the links at opposite sides of the clamping rod, guide bearings

secured to the upper portion of the base and slidably receiving the links, a handle formed on



the crank, and screws securing the base to a support.

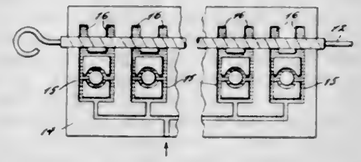
2,610,357
TIRE TREADING MOLD
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application March 19, 1948, Serial No. 15,792
2 Claims. (Cl. 18—18)



1. An annular ring-type tire retreading mold comprising an inner endless annular sheet metal tread design forming and curing ring, said ring being provided with two series of corrugations, the corrugations of one series extending radially inwardly and the corrugations of the other series extending radially outwardly with the corrugations of both series equally spaced transversely of the ring, and the corrugations of said other series being disposed intermediate those of said one series and providing wire coil receiving grooves, an outer endless annular sheet metal reenforcing band engaging the outer surface of said curing ring and being provided with a transverse series of equally spaced radially outwardly projecting corrugations receiving and embracing the wire coil receiving corrugations of the curing ring, and a steam conducting coil disposed around and connected to the outer surface of the reinforcing band, the convolutions of the coil being disposed intermediate the outwardly projecting corrugations in the curing ring and reinforcing band and immediately above the inwardly projecting corrugations in the curing ring.

2,610,358
METHOD OF MAKING PIANO ACTION FLANGES
Lloyd M. Martin, San Francisco, Calif., assignor to Winter & Company, Inc., New York, N. Y., a corporation of New York
Application December 16, 1949, Serial No. 133,448
4 Claims. (Cl. 18—47.5)

1. The method of making piano action flanges which comprises: wrapping a strip of bearing felt about a core wire so that each turn of said felt is contiguous with each adjacent turn; molding in one molding operation a series of closely spaced plastic flanges about the wrapped core wire and simultaneously therewith attaching said felt to the flanges as the latter are formed;



ironing the interior of the felt wrapping by rotating the core wire relatively to the felt; withdrawing the core wire from the felt wrapping and the flanges molded thereon but leaving said felt wrapping attached to said flanges; and severing the felt wrapping protruding from each of the flanges.

2,610,359
PROCESS FOR PRODUCING POLYVINYL ALCOHOL FILAMENTS OF IMPROVED PROPERTIES
William R. Hatchard and Julian W. Hill, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 22, 1950, Serial No. 157,632
6 Claims. (Cl. 18—54)

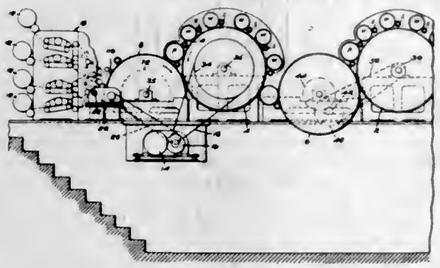
1. A process for the preparation of improved polyvinyl alcohol fibers which comprises polymerizing vinyl formate in a liquid diluent miscible with vinyl formate monomer, interrupting the polymerization (*a*) before the concentration of the polymer in the polymerization mixture exceeds 60% of the weight of the total mixture and (*b*) before the conversion of monomer to polymer exceeds 75%, hydrolyzing the polymer to polyvinyl alcohol of saponification number not exceeding 10, spinning an aqueous solution of the polyvinyl alcohol to form a filament, orienting said filament to a dry oriented length at least three times as long as that of the spun filament, and drying, and further orienting the dry filament by stretching the same at a temperature between 200 and 240° C. to a final length at least two and one-half times the length after the first orientation.

2,610,360
WATER-RESISTANT POLYVINYL ALCOHOL FILAMENT AND PROCESS FOR PRODUCING SAME
Edward T. Cline, Wilmington, Del., Paul S. Pinkney, Niagara Falls, N. Y., and Louis Plambeck, Jr., and Halsey B. Stevenson, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 22, 1950, Serial No. 157,634
5 Claims. (Cl. 18—54)

1. A process for the preparation of improved polyvinyl alcohol fibers which comprises polymerizing vinyl acetate in a liquid solvent for vinyl acetate monomer and polymer, interrupting the polymerization (*a*) before the concentration of the polymer in the polymerization solution exceeds 60% of the weight of the solution, (*b*) before the conversion of monomer to polymer exceeds 75%, and (*c*) before the viscosity of the

polymerization solution exceeds about 75 poises, hydrolyzing the polymer to polyvinyl alcohol of saponification number not exceeding 10, spinning an aqueous solution of the polyvinyl alcohol to form a filament, orienting said filament to a dry oriented length at least three times as long as that of the spun filament, washing and drying, further orienting the dry filaments by stretching the same at a temperature between 200° and 240° C. to a final length at least two and one-half times the length after the first orientation, and relaxing said further oriented fibers by heating the same at a temperature between 210° and 255° C. but not more than 10° C. below the temperature at which they were further oriented and under tension controlled to prevent shrinkage of more than 35% of said further oriented length and until the filaments shrink less than 10% of their length when immersed for six minutes in water at 100° C.

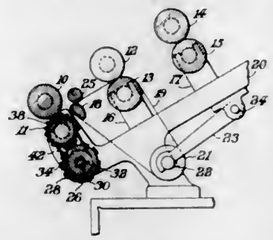
2,610,361
METHOD AND MEANS FOR VARYING THE COUNT OF ROVING IN CARDING MACHINES
Hubert G. Duesberg, Leominster, and Cecil A. Potter, Templeton, Mass., assignors to Duesberg-Basson of America, Inc., Fitchburg, Mass., a corporation of Massachusetts
Application June 29, 1951, Serial No. 234,382
7 Claims. (Cl. 19—106)



4. Means for varying the count of roving produced by a carding machine in which said machine comprises the elements of a cylinder, doffer and tape condenser in series, said roving varying means comprising a principal drive for said cylinder, doffer and tape condenser which principal drive maintains a constant relative speed between all of said elements and a variable speed drive mechanism interposed between said principal drive and said doffer and tape condenser whereby upon adjustment of said variable speed drive mechanism the relative speeds of said doffer and tape condenser may be maintained with respect to each other but varied simultaneously with respect to said cylinder.

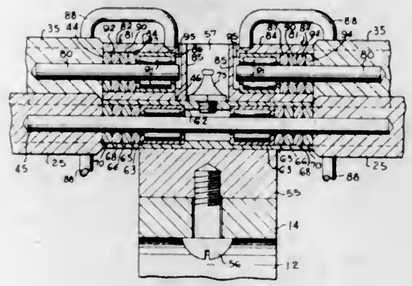
2,610,362
ROTARY ROLL CLEARER FOR DRAFT FRAMES
Whitworth F. Bird, Swarthmore, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application November 17, 1948, Serial No. 60,535
4 Claims. (Cl. 19—131)

1. In a draft frame, feeding means, delivery means including a front delivery bottom roll, a driving and supporting shaft for the said bottom roll, a rotatable clearer roll, a supporting shaft for said clearer roll, guide means on the frame for receiving an end of the clearer roll supporting shaft and to aid in positioning the clearer roll in contact with the bottom delivery roll, locking means for holding the clearer roll shaft within said guide means, and means, including a closed



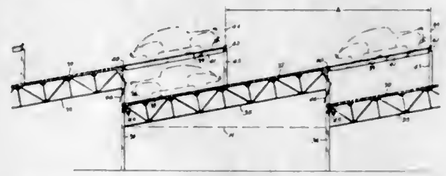
loop, for connecting the bottom driving and supporting shaft and the rotatable clearer roll supporting shaft in driving relationship and for holding the clearer roll in contact with said bottom roll.

2,610,363
ROLLER NECK BEARING FOR TEXTILE DRAFTING MACHINES
Elvin B. Robinson, Gastonia, and Jack C. Costner, Bessemer City, N. C., assignors, by direct and mesne assignments, to Ideal Industries, Inc., Bessemer City, N. C., a corporation of North Carolina
Application August 16, 1948, Serial No. 44,414
3 Claims. (Cl. 19—134)



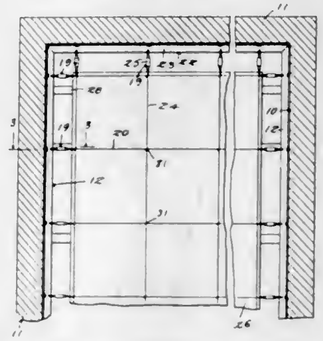
2. In a textile machine in which rolls are employed for drafting textile fibers, said machine having axially alined sections of bottom rolls and also having top rolls and also having spaced bearing blocks provided with bearing cavities, at least one tubular bearing housing having flattened sides along its medial portion disposed in the cavity of each of the bearing blocks and engaging the side walls of the bearing cavities to prevent rotation of the tubular bearing housing, a shaft connecting adjacent sections of the bottom rolls and each shaft being mounted in a separate one of the tubular bearing housings, each tubular bearing housing having a restricted bore intermediate its ends providing a shoulder at each end thereof and a plurality of circularly arranged rollers on each side of the restricted bore and surrounding said shaft and in which the shaft may rotate, a pair of roller bearing housings encircling said rollers and being pressed against said shoulders the opposed outer ends of the tubular bearing housing having a pair of spaced washers secured therein and the shaft having a washer secured thereon and occupying the space between the first-named washers.

2,610,364
VEHICULAR PARKING INSTALLATION
William P. Brower, Glen Rock, and Walter I. Gadkowski, Irvington, N. J.
Application December 11, 1948, Serial No. 64,812
2 Claims. (Cl. 20—1.13)



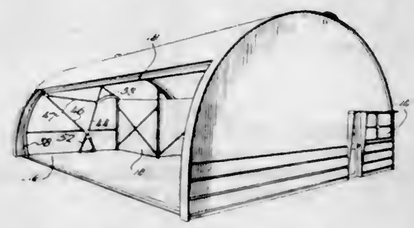
1. A vehicular parking installation comprising a series of parallel roadways spaced apart from centerline to centerline by a distance approximately equal to the width of one roadway plus the length of a vehicle to be parked and with their centerlines lying substantially in a common plane, each roadway being inclined laterally at an angle to said common plane, a lower-level parking strip of width approximately equal to the length of a vehicle to be parked adjoining the low side of each roadway and sloping downwardly therefrom at an angle to about 12° to said common plane, an upper-level parking strip of approximately the same width as the lower-level parking strips adjoining the high side of each roadway and sloping upwardly therefrom at an angle of about 12° to said common plane, each upper-level parking strip directly overlying the adjacent lower-level parking strip and being spaced vertically therefrom by a distance greater than the height of a vehicle to be parked, and an access road substantially perpendicular to said roadways lying substantially in the common plane of the roadway centerlines and connecting with each roadway.

2,610,365
CEILING CONSTRUCTION
Fred John Manley, Knoxville, Tenn.
Application April 12, 1951, Serial No. 220,584
2 Claims. (Cl. 20—4)



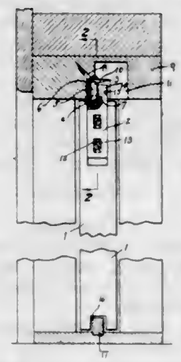
1. In a building having side and end walls, a ceiling construction comprising horizontally disposed apertured side and end angle members, means securing said angle members to said side and end walls, a plurality of crossed wires, turnbuckles extending between and secured to said angle members and the ends of each of said wires and a sheet of glass fabric seated on and supported by said wires, the edges of said sheet terminating short of said turnbuckles at the ends of said wires.

2,610,366
AIRPLANE HANGAR DOOR
John F. McKee, Aurora, and Melvin E. Hartsler, Downers Grove, Ill., assignors to McKee Door Company, Aurora, Ill., a corporation of Illinois
Application May 11, 1946, Serial No. 669,078
3 Claims. (Cl. 20—16)



1. In a building having a wall formed substantially as a portion of a substantially horizontally disposed cylinder, said wall having an opening to form a doorway therein, a door for closing said opening, said door also being formed as a portion of a cylinder and being located within said building and behind said wall, said door being sufficiently rigid to be self-supporting, a single horizontal pivot to the rear of said door and adjacent each end thereof, supports for said pivots, a pair of arms attached to the door at each end thereof and rotatably mounted on the adjacent pivot whereby said door can be swung into an overhead position about an axis established by said pivots, sealing means on the peripheral edges of the front face of said door and cooperating curved jambs bordering said doorway opening, the vertically extending peripheral edges of said door and said sealing means conforming in curvature to the curvature of the jambs to adapt the door to be brought into sealing engagement with said jambs when the door is in its lowermost position, one arm of each pair being shorter than the other whereby said pivots are eccentrically located relative to the axis of curvature of said doorjamb so as to break the bond between said sealing means and said jamb upon initial upward movement of the door from closed position.

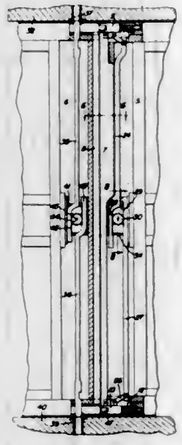
2,610,367
HANGER FOR SLIDING DOORS
Andrew Nordahl, Van Nuys, Calif.
Application February 10, 1945, Serial No. 577,195
3 Claims. (Cl. 20—19)



1. An overhead support for sliding doors comprising a header overlying an opening and hav-

ing a groove formed on its lower face; a C-shaped track member mounted in said groove with its open side facing a side wall of said groove and with its lower portion extending below the underside of said header to form a beading; a slidable door fitted within said opening and having a groove on its upper edge to receive said projecting portion of said track member; and brackets on the upper portion of said door extending into the groove in said header, each bracket having at its upper end a roller to ride in said track.

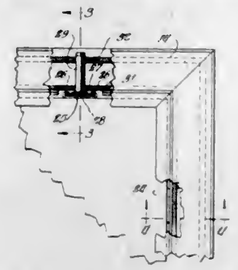
2,610,368
DOOR LOCKING ASTRAGAL
Kurt P. Tschaepe, New York, N. Y.
Application February 23, 1950, Serial No. 145,620
3 Claims. (Cl. 20—21)



1. In a pair of swinging doors, one of said doors having a vertical slot at its free edge and the other of said doors having a horizontally movable vertical astragal at its free edge for entering the slot, the improvement comprising the assembly of a roller connected to the astragal for bodily movement therewith, a vertically sliding bolt for locking the first named door, manually operated means carried by the first named door for locking and unlocking said vertically sliding bolt, a horizontally sliding bolt carried by the first named door for locking engagement with the vertically sliding bolt, said horizontal bolt having an arcuate seat for receiving the roller and lockably actuated by a projecting movement of the roller, manual actuating means carried by the second named door for projecting and retracting the roller and astragal, and locking means for said manual actuating means, said manual actuating means including a loose connecting means between the actuating means and the roller to provide limited independent retracting and projecting movement of the roller relative to the actuating means when the latter is unlocked.

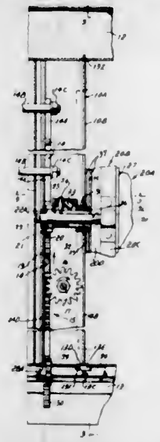
2,610,369
DOOR CONSTRUCTION
Charles B. Huizenga, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Application June 10, 1949, Serial No. 98,279
3 Claims. (Cl. 20—38)

1. A door construction consisting of a rectangular frame having a vertical inner frame rail, with top and bottom rails supported wholly by said vertical inner frame rail and extending outwardly from the top and bottom of said inner rail, and an outer rail extending vertically between the outer ends of said top and bottom rails and supported wholly thereby; all of said rails having a channel along their inside edges; a rectangular sheet of plate glass received in and spaced from the bottom of said channel, and coacting sets of edge contacting glass supports diagonally disposed adjacent opposite corners of said glass, with one set of said edge con-



tacting supports adjacent the junction of the lower end of the inner rail and the inner end of the bottom rail, and another set adjacent the junction of the upper end of the outer rail and the outer end of the top rail, whereby the glass is secured between said supports to function as a free floating diagonal compression member from the lower inner corner to the upper outer corner of the door; together with mechanical adjusting means for at least one of said supports to raise or lower the outer side of the door.

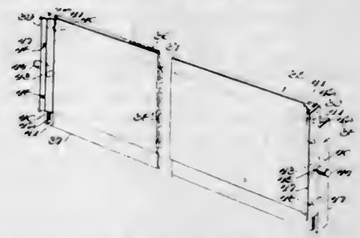
2,610,370
WINDOW CONSTRUCTION
Charles Jansen, Brooklyn, N. Y., assignor to Nelson J. Edge, Jersey City, N. J.
Application March 8, 1945, Serial No. 581,604
7 Claims. (Cl. 20—53)



1. In a window construction of the type comprising a substantially rectangular window frame comprising side, header and sill members, and a substantially rectangular pane holding element, said pane holding element having pivot shafts journaled therein and in said side members on a substantially horizontal axis, said pane holding element being tiltable on said pivot shafts from a substantially vertical, closed position to an open position and said axis being so located

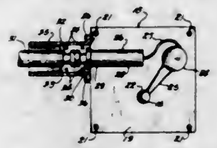
relative to said pane holding element as to cause the latter to be biased toward closed position by gravity, the combination with said side members, said pivot shafts and said pane holding elements, of a bar slidably mounted in one of said side members and comprising a tooth rack, means for slidingly actuating said bar in said side member, a sleeve slidably mounted on said pivot shaft, a gear coaxially attached to said pivot shaft and operatively engaged by said rack, a parti cylindrical segment firmly connected to said gear, coaxial therewith and with said sleeve, a pin mounted on said sleeve and extending radially therefrom, said segment projecting over a substantial portion of said sleeve and having a cam slot therein mating with said pin, said cam slot being inclined toward the pane holding element, and a weatherstrip firmly mounted on said sleeve and slidingly engaging said pane element and fixed against rotation relative thereto, whereby sliding actuation of said bar rotates said gear and segment to first slide said sleeve and weatherstrip from a sealing and locking engagement with said side member in the closed position of said pane holding element, and thereafter to tilt said pane element against gravity to open said window, and sliding actuation of said bar in the opposite direction first progressively releases said pane holding element to the action of gravity to close the same and thereafter slides said sleeve and weatherstrip into a sealing and locking engagement of the latter with said side member.

2,610,371
SHUTTER STRUCTURE
Daniel I. Hite, West Columbia, S. C.
Application February 27, 1950, Serial No. 146,474
7 Claims. (Cl. 20—62)



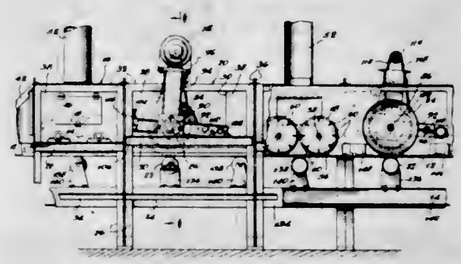
1. A shutter structure comprising a frame including opposed sides having spaced transverse openings, louvers mounted within the frame between the sides for tilting movement and having their ends spaced from the sides, heads arranged between the ends of the louvers and frame sides and carrying the louvers, the heads including pairs of opposed separate bars having inner and outer sides, the bars of each head having groove means in their inner sides receiving the adjacent ends of the louvers, the bars of the heads being provided in their opposed faces with opposed longitudinal grooves forming longitudinal passages in the heads, the bars of the heads having pairs of opposed transverse notches formed in their opposed faces and forming transverse openings extending through the outer sides of the heads and leading into the longitudinal passages, pins positioned within the transverse openings formed by the notches and extending beyond the outer sides of the heads and journaled within the transverse openings of the frame sides, enlargements secured to the pins and engaging in the longitudinal passages of the heads, means securing the opposed bars of the heads together, and mechanical operating means connected with the pins for rotating them in unison to tilt the louvers.

2,610,372
APPARATUS FOR REDUCING THE POROSITY OF CASTINGS
Henry F. Schroeder, Milwaukee, Wis.
Application April 20, 1949, Serial No. 88,546
1 Claim. (Cl. 22—68)



In combination: a die formed with a cavity and with a molten metal inlet passage opening into said cavity, said die being separable into two sections along a plane through the die, and said die being formed with a socket remote from said cavity and said inlet passage which socket is positioned with its axis in the plane of separation of said die, said socket extending inwardly from one side of the die and having a closed end, and said die being formed in one of its meeting faces with a single air evacuating passage remote from said inlet passage and extending between the closed end of the socket and said cavity, said pair of passages being the only passages leading to and from said cavity, said air evacuating passage being of considerably less cross-sectional area than said socket; an air-evacuating piston slidably positioned in said socket for withdrawing air from said cavity via said single-evacuating passage, said piston having a cubic displacement at least as great as the combined volume of said die cavity and the pair of passages within the die communicating with said cavity; pressure means cooperable with the molten metal inlet passage for injecting molten metal into the cavity; and means for moving said piston away from the closed end of said socket in timed relationship with the injection of molten metal into the die to thereby create a vacuum in said cavity during an injection operation.

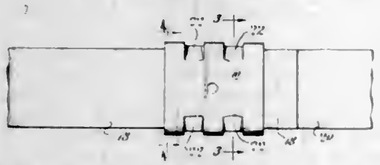
2,610,373
MIXER-MULLER
Jules T. Parisi, Chicago, Ill.
Application April 26, 1950, Serial No. 158,266
1 Claim. (Cl. 22—89)



A conditioner for granular or pulverulent material having a driven conveyor belt for carrying said material, along the upper reach thereof through the conditioner, means for supporting the movement of said belt including a plurality of subjacent support rollers spaced apart beneath said reach, a mixer for said material comprising a pair of rotating cutters having helically curved blades successively carried into close proximity to the upper reach, said pair of blades being arranged above the said belt in position along said

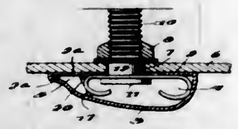
reach and adjacent to but between subjacent support rollers, whereby the belt between said support rollers will yield when pressed downward by the blades engaging said material thereon, means drivingly connected with said cutters adapted to rotate the same so that the peripheral speed thereof is substantially greater than the belt speed, and in the same direction at the bottom of the cutters whereby said cutters will cut into said material and throw the same into the air to mix and aerate the same as the material moves along said conveyor, a plurality of walls on the conditioner arranged to enclose the mixer, a mixer roll positioned to operate on the material after it has been agitated by said cutters, a motor geared to said muller roll to drive the same, said motor being mounted in association with said muller roll so as to weight the roll additionally, said roll and motor being freely movable together toward said upper reach for holding the muller roll against the material.

2,610,374
BUNDLE-BINDER SEAL
John H. Leslie II, Evanston, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware
Application September 3, 1948, Serial No. 47,563
2 Claims. (Cl. 24—23)



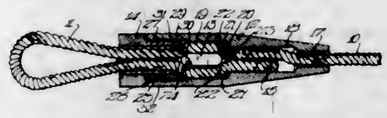
1. A binder strap joint comprising overlapping ends of the strap and a seal consisting of a back plate and flanges surrounding and tightly fitting about the overlapping strap ends, the flanges of the seal having openings wholly within the flange borders, and the back plate and overlapping strap ends being sheared inwardly along opposite edges to form tongues which are offset to project into but not beyond the openings in the said flanges.

2,610,375
MOLDING FASTENER
Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 21, 1947, Serial No. 723,247
1 Claim. (Cl. 24—73)



A molding clip comprising an elongated sheet metal head member and a stud member extending substantially normal to one face of said head, a resilient molding-engaging portion extending from one side edge of said head and curving upwardly and inwardly to overlie an opposite face of said head, a flange extending from the opposite edge of said head providing an end portion disposed in a plane at an acute angle to said head, and an upwardly and inwardly curling portion extending from said opposite edge adjacent said flange and having a tongue cut therefrom disposed in the plane of said end portion of said flange and extending in a direction opposite thereto to provide an end edge disposed substantially in the plane of said one face of said head, said head providing a surface adjacent said one side edge for engaging the inner face of a molding flange and said molding-engaging portion providing an arcuate surface for engaging an inner surface of a molding adjacent said molding flange, said flange element and said tongue providing camming surfaces for receiving an edge of an opposite flange of such molding, said end edge of said tongue and the free end edge of said end portion of said flange being adapted to engage the inner face of said opposite flange and a substantially opposing portion of the inner face of said molding.

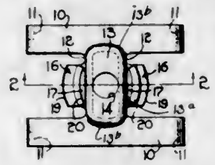
2,610,376
CABLE FITTING
Ett J. F. Murana, Algonquin, Ill.
Application November 25, 1949, Serial No. 129,347
3 Claims. (Cl. 24—125)



1. In a cable terminal fitting, a tubular fitting body having an axial bore comprising a rear counterbore joining a forward smaller diameter bore portion on an abrupt shoulder defined by a cable-kinking edge at the entrance to the smaller diameter bore portion, a flattened snubber block having opposite substantially parallel broad faces and narrower substantially parallel longitudinally elongated side surfaces, said block extending endwise within said counterbore and being of a width substantially equal to the diameter of the counterbore so as to be held against cocking while being free for endwise movement, the distance between said broad faces defining the narrowest dimension of the block for freely accommodating portions of a cable between said faces and the counterbore wall, said block having a blunt forward end to oppose said shoulder to kink and set upon said edge a cable body and cable terminal between which the block is disposed in said counterbore, said block having a blunt rear end with abrupt cable-kinking edges, said counterbore being internally threaded adjacent its rear end, and a threaded drive plug arranged to be threaded down into said counterbore and having a blunt end opposing said kinking edges of the snubber block so that portions of the cable will be kinked and set against said edges at the same time that the cable is being kinked and set upon said shoulder edge as an incident to driving said plug hard toward said block when the fitting is assembled with a cable.

2,610,377
FASTENER DEVICE
William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application November 20, 1947, Serial No. 787,227
7 Claims. (Cl. 24—213)

1. A fastener for securing a part to be supported to an apertured support comprising a part-engaging member having a base portion, and an integral support-engaging stud member extending normal to the base portion and within the marginal edges thereof and including a continuous walled elongated boss providing opposed rigid support-aperture-engaging wall portions at the ends thereof adjacent said base portion, and resilient snap fastener fingers integrally connected to the side walls of said boss intermediate the opposed rigid support-aperture-engaging wall



portions thereof and lying entirely outwardly of the side wall portions of said boss, said fingers having a support-aperture-engaging wall portion adjacent said base and in the plane of the support-aperture-engaging wall portions of the boss and outwardly bulging and converging end portions for snap fastener engagement with the apertured support.

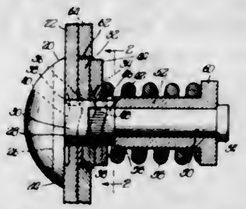
2,610,378
COWL FASTENER
Leonard A. Powell, Hyde Park, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass, a corporation of Massachusetts
Original application September 28, 1942, Serial No. 459,896, now Patent No. 2,479,402, dated August 16, 1949. Divided and this application April 30, 1949, Serial No. 90,587
1 Claim. (Cl. 24—221)



In a cowl fastener a female fastening element adapted to be secured to one side of an apertured support and adapted to receive and cooperate with a rotary pin equipped with a plurality of sets of radial arms and mounted in a member to be fastened to said support, said female fastening member comprising a metal strip having an apertured base attached to said support with the aperture thereof in alignment with the support aperture, a portion of said base being spaced from the adjacent face of the support providing an outwardly spaced seat for cooperative engagement with one pair of radial arms, and a spring member integrally connected to one end of said base and folded back thereover and formed with an apertured pin-receiving seat portion for receiving and engaging another set of radial arms of said pin for supplying supplemental resilient pressure for holding said pin in said female fastener element.

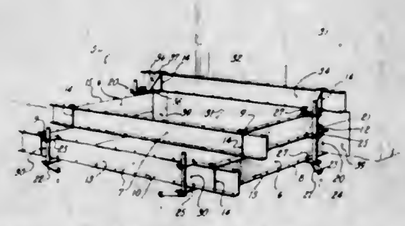
2,610,379
FASTENER
Kenly C. Bugg, Fort Wayne, Ind.
Application December 6, 1944, Serial No. 566,831
17 Claims. (Cl. 24—221)

1. In a fastener for securing plates together, the combination of a head having a shank, a member rotatable with said head and slidable with respect to said shank, a member adapted to be rotatably mounted on said shank between said head and first member, and resilient means for urging the first named member toward the second named member, said members having complementary engaging means for preventing accidental rotation of the first named member



with respect to the second named member, said shank being provided with means for arresting movement of the first named member toward said resilient means prior to the time said resilient means goes solid.

2,610,380
CONCRETE STAIR FORM
Adam F. Pollman, Milwaukee, Wis.
Application April 2, 1948, Serial No. 18,539
5 Claims. (Cl. 25—118)

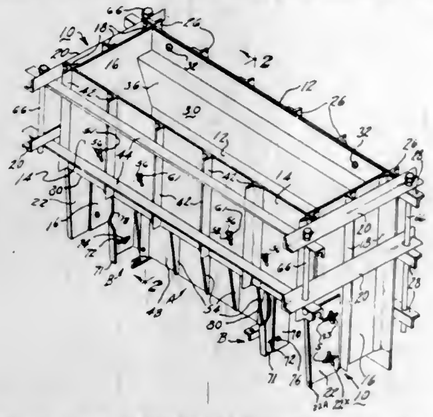


1. A concrete form characterized by: elongated channel-shaped members each having parallel flanges spaced apart a common distance and provided with equispaced aligning sets of holes; other elongated channel-shaped members each having parallel flanges spaced apart a distance greater than the flanges of the first designated channel members an amount substantially equal to twice the flange thickness; apertured flange portions extended lengthwise from one end of each flange of each of said other channel members and adapted to engage over and under the flanges of said first designated channel members with the apertures of the flange extensions in register with sets of vertically aligning holes in the flanges of said first designated channel members; and means engageable in said registering apertures for locking the channel members together.

2,610,381
DEMOUNTABLE FORM FOR POURING CONCRETE
Romolo J. Rosati, Philadelphia, and James D. Somers, Chester, Pa.
Application January 12, 1951, Serial No. 205,726
5 Claims. (Cl. 25—118)

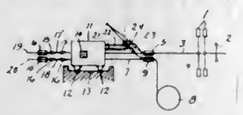
1. A demountable form for forming, in a single operation, a combined curb and sewer over-flow throat adjacent the edge of a road bed, said form including an outer wall adapted to be placed parallel to, and spaced from, the edge of the road bed, end walls adapted to be disposed substantially normal to said outer wall, an inner wall, said inner wall including an upper rail parallel to and coextensive with said outer wall and a

forming member depending from the said rail, said forming member including an upper portion which slopes downwardly toward said outer wall and a lower portion which is substantially parallel to said outer wall and adapted to abut the edge of the road bed, means for vertically adjustably securing said forming member to said



upper rail in a detachable manner, said forming member being shorter than said rail whereby openings are formed between the ends of said forming member and the corresponding portions of said end walls, and means for detachably securing the ends of said outer wall and the ends of said rail to said end walls.

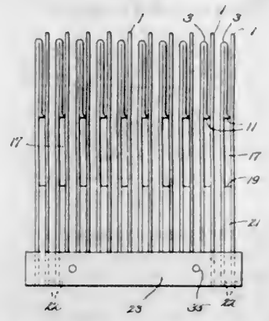
2,610,382
METHOD OF AND DEVICE FOR ENSURING THE PROPER ORDER OF THREADS ISOLATED FROM A SHEET OF WARP THREADS
Svend Sigurd Christie Fleischer, Charlottenlund, Denmark
Application July 10, 1947, Serial No. 760,000
In Denmark February 28, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires February 28, 1960
5 Claims. (Cl. 28—43)



1. A thread isolating device for ensuring the proper order of threads isolated from a sheet of warp threads that are crossed over pliable cross members, comprising pliable cross members for holding warp threads crossed, at least one thread isolating member disposed outside of the sheet of threads and so constructed and arranged as to draw a portion of one of the pliable cross members out of the plane of the sheet of threads to isolate said one thread, means for intermittently operating the said thread isolating member, a thread swipe, and means for operating the thread swipe to carry the isolated thread forward past the thread isolating member.

2,610,383
EXPANSION LEASE COMB
Thomas E. Watson, Tewksbury, Mass.
Application March 9, 1948, Serial No. 13,892
16 Claims. (Cl. 28—55)

1. A comb for guiding the yarns of warpers and other textile machines having in combination a plurality of comb sections, and means shifting the sections into either sharper or flatter angular relation to the yarns, the comb sections comprising dents having integral portions thereof pressing against each other through their inherent resilience to form a series of eyes
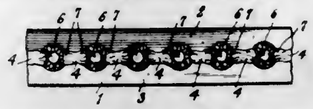


alternating with open intervals throughout the length of the comb to form a lease in the yarns, the eyes being adapted to be opened for the admission of the yarns by the flexing of the dents under pressure of yarns slid sidewise down between the dents.

2,610,384
PROCESS OF PRODUCING A TEXTILE PRODUCT
Ralph James Mann and Józef Biedawski, Spondon, near Derby, England, assignors to British Celanese Limited, a corporation of Great Britain
No Drawing. Application November 17, 1949, Serial No. 127,996. In Great Britain December 3, 1948
8 Claims. (Cl. 28—73)

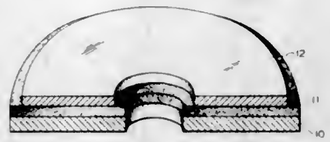
3. Method of forming a skin on a mass of fibrous material comprising a substantial proportion of thermoplastic fibers, which comprises slightly compressing the mass, the pressure on at least one of the faces of the mass being applied along intersecting portions each 8 to 10 mils in width and spaced with a frequency of 30 to 40 per inch, and applying radiant heat upon the exposed parts of said face between said intersecting portions for a period sufficient to cause a layer of the thermoplastic fibers to become adhesive, terminating said exposure before the inner fibres become adhesive, allowing the exposed fibres to cool sufficiently to set and afterwards removing the pressure.

2,610,385
METHOD OF MAKING GEM SETTINGS
Moe Manne. New York, N. Y., assignor to Manne Enterprises, Ltd., New York, N. Y., a corporation of New York
Application August 5, 1949, Serial No. 108,800
4 Claims. (Cl. 29—10)



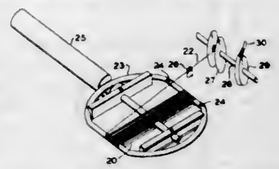
1. The method of making a gem setting comprising forming a channel-shaped strip having a top face by dieing operations, said strip having its top face provided with inclined reflecting surfaces and a rib extending longitudinally between said surfaces, perforating the rib to provide gem-receiving apertures, polishing the inclined reflecting surfaces, and then setting gems over the apertures by retaining said gems in place by utilizing portions of the rib only as gem-retaining lugs.

2,610,386
SEMICONDUCTIVE CELL
Otto Saslaw, Red Bank, N. J., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application July 28, 1949, Serial No. 107,341
7 Claims. (Cl. 29—25.3)



1. A method of making a selenium cell comprising the steps of applying an adherent layer of amorphous selenium to a conductive base, converting the amorphous selenium to crystalline selenium, applying a layer of low melt metal on the surface of said selenium, applying a layer of high melt metal over the layer of low melt metal, and electroforming said cell at power dissipation values sufficient to generate a temperature above the melting point of the low melt metal and below the melting point of the high melt metal, thus to fuse the low melt metal into the high melt metal.

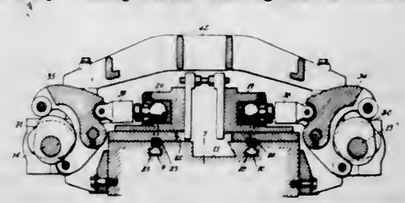
2,610,387
METHOD OF MAKING GRID ASSEMBLIES
Eileen E. Borland, Cambridge, Garret A. Hobart, 3d, and Casimir Z. Nawrocki, Boston, and Henry V. Neher, Arlington, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application March 22, 1945, Serial No. 584,225
3 Claims. (Cl. 29—25.17)



1. The method of making a grid assembly comprising taking a support having a central aperture therein and placing a plurality of wires on said support, the wires overlying and extending beyond on each side of said aperture, permanently conductively bonding the ends of each wire to the support, and deforming simultaneously the support and wires intermediate the attached ends and the aperture to tension the wires.

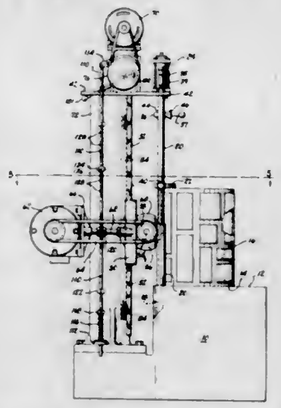
2,610,388
MACHINE FOR OPERATING ON STRIP STOCK
Frederick Koch, Sparta, N. J., assignor to C. Todd, Rutherford, N. J., as trustee
Application August 18, 1950, Serial No. 180,131
1 Claim. (Cl. 29—33)

A metal working machine for operating on straight lengths of strip stock, comprising a machine tool bed substantially symmetrical to opposite sides of a central longitudinal straight stock feed line, said bed being substantially flat on top and having corresponding substantially straight, flat, parallel longitudinal sides spaced the same distance from said central stock feed line and having corresponding parallel, longitudinal ram positioning grooves in the top of the same spaced the same distance to opposite sides of said central feed line, parallel cam shafts journaled at opposite sides of said bed and spaced the same distance to opposite sides of said central feed line, said shafts being located in the same relation with respect to the top of the bed and with respect to the sides of the bed and geared to rotate in unison, opposed rams at opposite sides of the stock feed line and operating in opposite directions against opposite sides of the stock, said oppositely acting rams having bases removably



mounted on the bed in longitudinally adjustable relation at opposite sides of the central stock feed line, keys on said ram bases engaged in said positioning grooves in the bed, means for removably securing said ram bases keyed on the bed in the opposing relation described at different positions in the length of the bed, said ram bases being reversible end-for-end and interchangeably mountable on the bed on opposite sides of the central stock feed line, whereby either ram may be used at either side of the stock feed line and the stock be maintained in substantially a straight line, and cams for operating said rams interchangeably engageable on said cam shafts for actuating said rams in cooperative timed relation, mounted as described at either side of said central straight stock feed line.

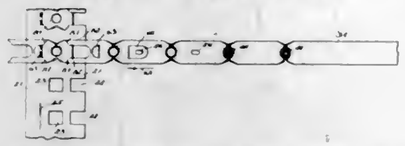
2,610,389
POWER SAW FOR CYLINDRICAL PRINTING PLATES
George W. Bungay, New York, N. Y., assignor to Electrographic Corporation, New York, N. Y., a corporation of New York
Application November 29, 1949, Serial No. 130,052
3 Claims. (Cl. 29—72)



1. Apparatus for mechanically sawing the straight edges of a parti-cylindrical printing plate

including in combination a flat horizontal table, a pair of parallel rods rigidly mounted on and normal to the surface of the table, a saw slot in the table surface between the rods, a power driven saw, and means guiding the saw in a path parallel to the rods, said parallel rods being engageable with the convex surface of the plate to locate the plate on the table in a definite relation to the path of the saw.

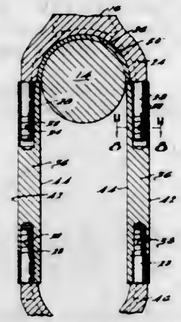
2,610,390
METHOD OF MAKING ELECTRICAL TERMINALS
Louis P. Locke, Victor, N. Y.
Application June 10, 1947, Serial No. 753,678
9 Claims. (Cl. 29—155.55)



1. The method of forming from a strip of metal and assembling onto a strip of insulating material a series of metallic electrical terminal members of the type wherein a portion of each terminal member lies flat on the surface of the insulating material and one end portion of each terminal member extends upwardly in upstanding relation to the surface of the insulating material, said method including the steps of intermittently feeding a strip of insulating material forwardly step by step in one direction; intermittently feeding a strip of metal forwardly step by step at an elevation above that of said insulating material and in a direction transverse to the direction of feeding movement of said insulating material, said metal strip being potentially divisible into a series of successive sections from each of which one individual terminal member will ultimately be formed; forming in each such section as it approaches but before it reaches a position over the insulating strip, a downwardly projecting hollow tubular portion; and then as such section reaches a position over the insulating strip, simultaneously severing such section from the next succeeding section of the metal strip and pressing the main body of the severed section firmly downwardly onto the insulating strip so that said tubular portion enters and seats in said insulating strip and simultaneously exerting upward pressure on one end of the severed section while the main body thereof moves downwardly, to bend said end thereof upwardly to an upstanding relation to the main body thereof.

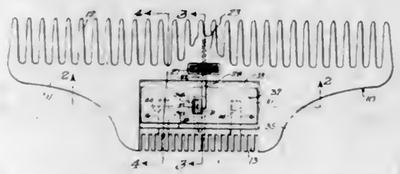
2,610,391
TOOL FOR ASSEMBLING AND DISASSEMBLING CONNECTING RODS AND THEIR BEARINGS
Paul T. Gorton, Grosse Pointe, Mich., assignor to Federal Mogul Corporation, Detroit, Mich., a corporation of Michigan
Application August 19, 1947, Serial No. 769,340
4 Claims. (Cl. 29—283)

1. An extension bar having a socket in each end thereof, each socket being adapted to fit over and entirely accommodate the standard connecting rod stud, and means for fastening said bar to connecting rod studs disposed in said sockets, both sockets being disposed correspondingly eccentrically of the bar and closer to one side than the other thereof, the distance between the centers of said sockets and said one side of the bar being not greater than the standard distance between the center of the connecting rod stud and the adjacent arcuate bearing seat of the connecting rod, and the distance between the centers of said sockets and the other side of the bar being



greater than the standard distance between the center of the connecting rod stud and the adjacent arcuate bearing seat of the connecting rod but not greater than the standard distance between the center of the connecting rod stud and the adjacent arcuate inner surface of the connecting rod bearing.

2,610,392
HAIRCUTTING COMB
Clarence Alois Charbeneau, Mount Clemens, Mich.
Application January 11, 1949, Serial No. 70,165
4 Claims. (Cl. 30—30)

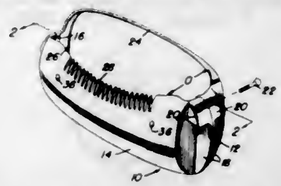


2. A hair-cutting comb comprising a comb body having an opening therein and hair-guiding teeth thereon and having a portion thereon adapted to slidably receive a cutting blade, a blade holder engageable with said blade and movable toward and away from said teeth, a blade-moving member engageable with said blade-holder, a screw engageable with said member, and a nut disposed in said opening and threadedly engaging said screw and effective upon rotation to adjustably move said screw, member and blade-holder to and fro relatively to said teeth, said screw having a bent portion engageable with said member, and said blade holder, blade and body having apertures receiving said member, one said apertures guidingly engaging said member, one of said apertures having a lateral enlargement at one portion thereof whereby to permit lateral shifting of said member to disengage said member from said screw.

2,610,393
HAIRCUTTING AND COLLECTING DEVICE
Philo L. Hammond, Massillon, Ohio
Application May 28, 1951, Serial No. 228,631
4 Claims. (Cl. 30—30)

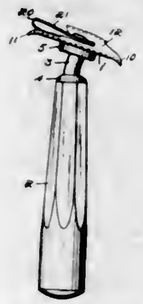
1. A hair cutting device comprising a housing member composed of two concavo-convexed

walls secured together, said housing member having an opening in one side, one of said walls having a toothed comb forming edge at the open side of the housing member, and cutting means mounted on said one wall and disposed in said housing member, said cutting means overlying



the toothed edge of said one wall, said toothed edge including a plurality of teeth having inner faces formed with notches, and said cutting means including a pair of relatively inclined razor blades having cutting edges seated in said notches.

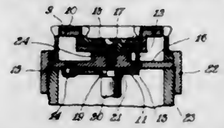
2,610,394
REPEATING SAFETY RAZOR
Ralph G. Arey, Brockton, Mass.
Application March 26, 1948, Serial No. 17,164
5 Claims. (Cl. 30—40)



4. A razor of the kind described, comprising a head having a portion fixed thereto and a reciprocating movable element longitudinally slidable therein, said fixed portion and movable element being constructed and arranged to provide a space to receive a package of detachable blades therebetween, cooperating means on said fixed and movable elements to provide for an individual blade to be detached from said package during the forward movement of said sliding element, and means on said fixed element cooperating with said sliding element at its forward limit of movement to exert holding pressure on the next succeeding undetached blade.

2,610,395
CUTTER HEAD OF A DRY-SHAVING DEVICE
Albertus van der Lee, Wilhelmus Lambertus Leonardus Vivie and Karel Reinout Hofland, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 2, 1946, Serial No. 681,010
In the Netherlands February 5, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 5, 1963
2 Claims. (Cl. 30—43)

1. Dry-shaving apparatus comprising an open-ended tubular portion, a plate-shaped frame member having an edge portion positioned over the opening of said tubular portion and having a central portion and being provided with an aperture intermediate said central and edge portions, a circular cutting plate member having an edge portion and a central portion and having the inner portion between said edge and central portions provided with a running surface, a cutter member interposed between said frame member and said cutting plate member and having teeth engaging the running surface of said plate member, a single means to secure both the edge portion of said frame member and the edge portion of said cutting plate member to said tubular portion, said cutter member having a central



opening, said cutting plate having a reentrant part extending through the central opening in said cutter member, means associated with said reentrant part to rigidly secure and support the central portion of said cutting plate member on the central portion of said frame member, a rotatable driving member arranged within said tubular portion, and an oscillating lever member pivotally secured to said frame member and having a portion thereof eccentrically engaging said driving member and another portion thereof extending through said aperture and engaging said cutter member.

2,610,396
STRAIGHT SAFETY RAZOR
Frank Sherosky, Detroit, Mich.
Application June 21, 1950, Serial No. 169,379
1 Claim. (Cl. 30—69)

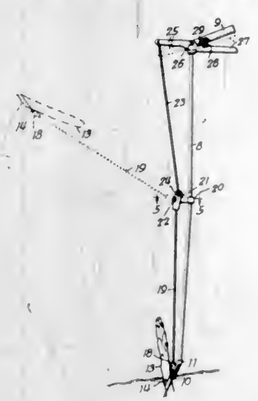


A safety razor comprising a blade having a thick heel portion defined by a flat back, a flat top, and a flat under side, said blade tapering from the heel portion to a cutting edge, the blade being provided, midway its length and transversely thereto, with a threaded opening, a guard frictionally retained over the heel portion and including an apron on the under side of the blade, the apron extending in the direction of the edge of the blade and being in a yieldable progressively expanding spacing to said blade, the guard being provided with an opening for alinement with the threaded opening in the blade and including an outwardly extending lip along the edge of the blade and in a normally spaced relation thereto, and a handle having a threaded end for engagement with the threaded opening in the blade and a shoulder below its threaded end for abutment with the apron at a point where the apron is spaced from the blade to adjust the spacing between the lip of the apron and the cutting edge of the blade.

2,610,397
ASPARAGUS PICKER
Alton C. Sutton, Rochelle, Ill.
Application January 29, 1947, Serial No. 724,978
20 Claims. (Cl. 30—124)

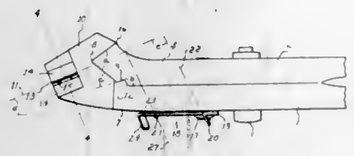
1. A device of the class described comprising an elongated handle shaft, a knife fixedly

mounted on the lower end of said shaft, a fork disposed in front of and substantially parallel to the knife and adapted to spear a standing stalk concurrently with the cutting through thereof by the knife, a support for said fork



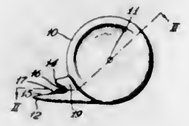
movable upwardly relative to said shaft to elevate the fork with the object speared thereon to the vicinity of the upper end portion of the shaft, and hand operable means on the upper end of the shaft operatively connected with said support to elevate the same.

2,610,398
SHEET METAL CUTTING TOOL
Celestine A. Royer, Champaign, Ill., assignor to R. H. Bishop Company, Champaign, Ill., a corporation of Illinois
Application May 28, 1948, Serial No. 29,755
2 Claims. (Cl. 30—229)



1. A hand tool for cutting sheet metal preparatory to forming a joint comprising a pair of crossed arms having cooperating cutting jaws, pivot means joining the arms and maintaining the jaws in cutting relation, said jaws forming a first straight shearing section, a second shearing section of V-shape forwardly of said first shearing section and having a 90° angle at its apex and a third straight shearing section forwardly of said second shearing section and lying at an obtuse angle to said first shearing section, a flat work receiving platform on one of said jaws projecting beyond the forward end of the other of said jaws, a recess in the surface of said platform adjacent said third shearing section, a guide hinged within said recess and adjustable from a position within said recess to a position in which the guide projects perpendicularly from the surface of the platform, a stop attached to said one jaw adjacent said first shearing section, said guide and stop being arranged to engage the edges adjacent the corner of a metal sheet to position the sheet on said platform for severing the corner from the sheet by said first, second and third shearing sections.

2,610,399
RIPPER FOR SEAMS OR THE LIKE
Bruce P. Adams, Evanston, Joseph Palma, Jr., Berwyn, and James Gordon Knapp, Lombard, Ill., assignors to Pelouze Manufacturing Company, Evanston, Ill., a corporation of Illinois
Application February 4, 1950, Serial No. 142,474
2 Claims. (Cl. 30—286)



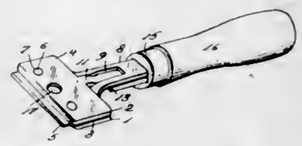
1. In a ripper, a relatively flat circular disk-like gripping member formed of a moldable material and having an integral tooth-like member extending from its perphery in a direction substantially tangential thereto and tapering toward its end in a spreading probing point for ready insertion for ripping, and also having a guarding projection extending in the same general direction as said tooth-like member in vertically spaced relation with respect theerto and substantially shorter than said tooth-like member, the adjacent edges of said guarding projection and said tooth-like member converging inwardly toward each other and the space between said edges forming a guarded blade receiving recess having a cutting blade extending across said recess and molded in said recess and molded in said tooth-like member and guarding projection and terminating at its outer end in said tooth-like member outside of the margins of said guarding projection, the cutting edge of said blade being inclined at an angle to a line drawn tangent to the periphery of said disk and extending along the outer edge of said tooth-like member, said angle being not less than 20° and not more than 35° and merging into an adjacent edge of said tooth-like member.

2,610,400
FEEDING SPOON
Mildred L. Wendling, Portland, Oreg.
Application June 5, 1950, Serial No. 166,103
1 Claim. (Cl. 30—324)



A baby feeding spoon for use by adults, comprising a spoon substantially the size of a standard teaspoon and having a flat spoon portion including a rounded front end portion of a size for easy insertion in a baby's mouth, and a relatively larger rear end portion with concave side edges substantially tangentially of said front end portions and blending into said rear end portion for fitting around the baby's lips and chin and scraping food therefrom, and a handle extending from the rear end portion and at an angle to the plane of said spoon portion and being of a size for use by adults.

2,610,401
BLADE CLAMPING DEVICE
Peter S. Vosbikian and Thomas S. Vosbikian, Melrose, Pa.
Application October 12, 1950, Serial No. 189,716
2 Claims. (Cl. 30—332)



1. A blade clamping mechanism, comprising a pair of clamping members consisting of a first and a second member, each member having a clamping jaw with a substantially flat inner face to receive a blade and having a tang offset towards the flat inner face of each jaw, the tang of the first member having near its jaw a neck and shoulders at the outer end of the neck, the tang of the second member having an opening through which the tang of the first member extends with its shoulders overlying the opening and contacting the inner face of the tang of the first member to cam the jaws together when the tangs are pressed towards each other, and a handle into which the tangs are inserted when pressed towards each other to effect the clamping action of the jaws.

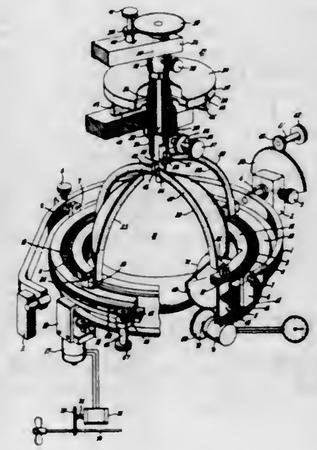
2,610,402
DENTURE MAKING APPLIANCE
John M. Craigo, East Hartford, Conn.
Application April 21, 1950, Serial No. 157,312
11 Claims. (Cl. 32—19)



1. A dental arch rim having a flexible anterior portion and relatively rigid posterior portions on opposite sides thereof, said posterior portions conforming to the curve of spee and disposed at an oblique angle to each other, and continuous interior and exterior flanges extending around the periphery of said bite rims.

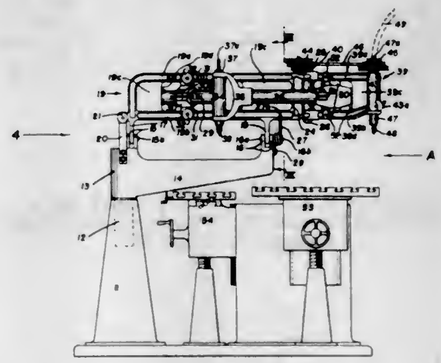
2,610,403
GREAT CIRCLE COURSE COMPUTER
Frank E. Valentine, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 30, 1949, Serial No. 135,918
3 Claims. (Cl. 33—1)

1. A great circle course computing instrument comprising a present latitude ring, a present longitude hoop, a destination latitude ring, a destination longitude hoop, means including a pivot point for pivotally supporting said present longitude hoop on said present latitude ring, means including a pivot point for pivotally supporting said destination longitude hoop on said destination latitude ring, means for supporting said rings in the same plane, means mounting said rings for movement relative to one another in said plane, a globe simulating the earth and mounted within said rings for rotation about an axis representing the earth's polar axis, a shaft disposed in alignment with said axis, said hoops intersecting at said shaft, means for guiding said hoops at said shaft, means mounting said hoops for rotation about said shaft, means for adjusting said hoops to vary the displacement of said pivot points from said shaft, means including scales for adjusting the present latitude ring and present longitude hoop to have the pivotal point connecting them represent a present position on the



earth's surface, means including scales for adjusting the destination latitude ring and destination longitude hoop to have the pivotal point connecting them represent a destination position on the earth's surface, and means for measuring the angle between said present longitude hoop and the plane of said rings, said angle being the great circle course angle to be followed from the present position to the destination position.

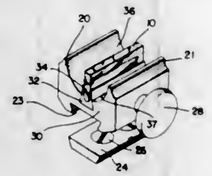
2,610,404
THREE-DIMENSIONAL PANTOGRAPHIC REPRODUCING MACHINE
Clarence R. Compton, Littleton, Colo.
Application September 2, 1948, Serial No. 47,387
3 Claims. (Cl. 33—23)



1. A pantographic reproduction machine including, in combination, a standard, a supporting arm pivotally mounted on said standard, projecting laterally therefrom and adapted to rotate in a full circle thereabout on a vertical axis, a two dimensional pantograph having its pivot arm carried above said supporting arm by hinge means

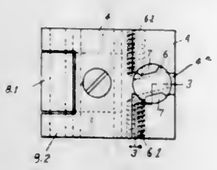
comprising lugs upstanding on said supporting arm and lugs depending from said pivot arm hingedly attached to said supporting arm lugs, the hinge means having an axis perpendicular to and intersecting the vertical pivot axis, tool and tracing means on said pantograph having their respective operating and guiding points depending from the pantograph frame and thereby adapted for movement in a plane offset from a plane medial to the arms of the pantograph and intersecting said perpendicular pivot axis at its intersection with said hinge axis, whereby tiltable movements of the pantograph about said hinge axis are accompanied by rotation of said plane of the points about said hinge axis, the guiding points being so aligned that a line therethrough and projected will intersect the point of intersection of said vertical-pivot and hinge-means axes in all positions of said points, whereby said operating and guiding points provide for reproduction, on a different scale, by the operating point of a three dimensional model traced by the guiding point.

2,610,405
LIGHT COLLECTING FRONT SIGHT FOR FIREARMS
John T. Dickinson, Seattle, Wash.
Application January 16, 1950, Serial No. 138,899
2 Claims. (Cl. 33—47)



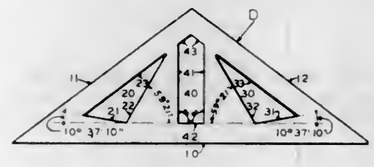
2. In a front sight for fire arms, the improvement, comprising: a blade member forming the upstanding portion of the sight, the material forming said member being of the type having the property of high transmission of light; a secondary mounting member enclosing the bottom margin of said blade and providing a reflective means for reflecting light back into said blade; and a protective shield for said blade member having a central slot in which said secondary member is positioned, and said protective shield having inwardly curved reflective surfaces, for reflecting light into said blade member, extending from a point near the forward base of said blade member to a point at the rear of said blade member.

2,610,406
PISTOL SIGHT
Lawrence N. Chambers, Davenport, Iowa
Application February 7, 1949, Serial No. 75,010
8 Claims. (Cl. 33—53)



1. In a pistol or similar arm, a front sight having an elongated body mounted above the front end of the barrel, a vertical bore formed therein, a rotatable plug mounted in the bore with its upper part having a width corresponding to the width of the body and a length greater than the width of the body whereby when alined longitudinally with the body, the sides of the plugs will be in line with the sides of the longitudinal body and when turned at an angle thereto, the edges of the plug will extend laterally farther than the sides of the longitudinal body a distance depending upon the angle at which it is turned, and means for securing the plug in various angular positions relative to the longitudinal axis of the body of the sight, in combination with a rear sight body having a slot formed therein parallel to the barrel, a vertical bore formed in the body and a plug mounted in the bore having a corresponding slot and arranged to be rotatably adjusted whereby the slot in the plug will appear as full width of the slot only when it is in line with the barrel longitudinally and will narrow the lines of vision through the slot when turned at an angle to the longitudinal axis of the barrel.

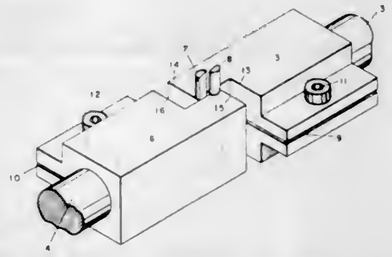
2,610,407
GEOMETRICAL INSTRUMENT
Daniel J. McQuaid, Sr., Denver, Colo.
Application August 10, 1945, Serial No. 610,013
6 Claims. (Cl. 33—104)



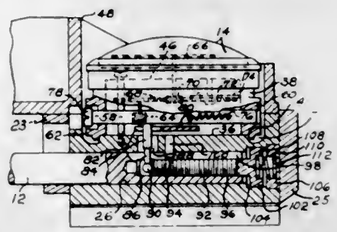
1. A geometrical instrument having a plurality of co-planar edges, including an exterior base edge; a first and second inclined exterior edge extending in opposite general directions and each inclined at an angle of 36° 52′ 11.63″ to said base edge; a first and second interior edge provided by an aperture adjacent said first inclined exterior edge, said first interior edge being inclined at an angle of 59° 21′ to said base edge and extending in the same general direction as said first inclined exterior edge, and said second interior edge being inclined at an angle of 10° 37′ 10″ to said base edge, being more closely adjacent said base edge than said first interior edge, and extending in a general direction opposite to said first inclined exterior edge; and a third and fourth interior edge provided by an aperture adjacent said second inclined exterior edge, said third interior edge being inclined at an angle of 59° 21′ to said base edge and extending the same general direction as said second inclined exterior edge, and said fourth interior edge being inclined at an angle of 10° 37′ 10″ to said base edge, being spaced more closely adjacent said base edge than said third interior edge, and extending in a general direction opposite to said second inclined exterior edge.

2,610,408
MEASURING MACHINE ATTACHMENT
Douglass Hawks, Jr., and Egbert Van Haaften, Lancaster, Pa., assignors to Hamilton Watch Company, Lancaster, Pa.
Application September 8, 1947, Serial No. 772,756
1 Claim. (Cl. 33—167)

An attachment for a micrometer of the type having an indicating hand and a constant pressure requirement, comprising a pair of detachable anvils adapted to be positioned on the head stock and tail stock anvils of said micrometer, said detachable anvils being formed with an internal bore and a connecting slot, said bore receiving the head stock and tail stock anvils, means passing through opposite sides of said slot to draw the sides of the slot together to secure the detachable anvils on said head stock and tail stock anvils, a projecting step and a receding step formed on each of the detachable anvils and arranged so that the projecting step of one anvil interfits into the receding step of the other anvil and semicylindrical upstanding projections carried at the inner forward end of each of the projecting steps, said semicylindrical projections forming a complete cylinder when the ends of the projecting steps of the detachable anvils are substantially in line, said position corresponding to the zero point of the micrometer, further movement of said detachable anvils toward each other causing the projecting step of one anvil to further interfit into the receding step of the other anvil and serving to move the semicylindrical projections away from each other for making internal measurements, the contacting pressure being directed against the head stock and tail stock anvils in the same manner as when making external measurements.

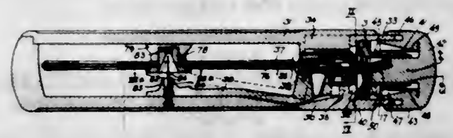


2,610,409
GAUGE
Lambert R. Pistoles, Wilmington, Del.
Application November 30, 1948, Serial No. 62,737
20 Claims. (Cl. 33—172)



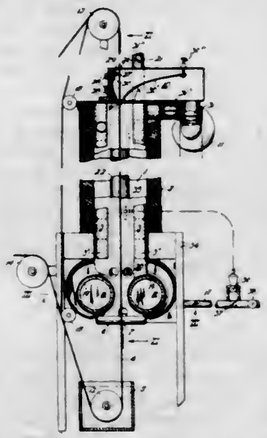
17. In a gage, a gage block having a gaging surface at one end, a bore therein normal to said surface, a slidable gage pin in said bore having a gaging end surface, a dial indicator mounted on one side of said block, means for transmitting movement of said pin to said indicator including contact means lying on the pin axis, and a shallow dihedral constituting the opposite side of said block for contacting a turned surface along spaced line contacts with the axis of said gage pin parallel with the axis of said turned surface.

2,610,410
MOTION TRANSMITTING MECHANISM
Johan Henrik L'Abée-Lund, Nordstrand, near Oslo, Norway, assignor to L'Abée-Lund A./S., Nordstrand, near Oslo, Norway, a corporation of Norway
Application November 5, 1948, Serial No. 58,578
In Sweden November 30, 1946
4 Claims. (Cl. 33—223)



3. In a compass having in a sealed compass housing, a marching direction indicator disk and a compass card both rotatable relatively to a magnet disk and associated therewith to constitute an oscillatory unit, an adjusting mechanism comprising a diaphragm closing a passage in the wall of the housing, an operating button mounted outside said wall for rotary and axially displaceable movements relatively to the housing, a frame mounted for outward and inward displacement in said passage inside the diaphragm, a shaft journalled in the frame in axial alignment with the operating button, means to transmit rotary and axial motions from the button to the shaft, a gear transmission mounted in said frame to be driven by the shaft, a stopping arm secured to the frame, a lever pivoted to the compass housing and engaged by the frame to be moved thereby to elevate the oscillatory unit to a position having the marching direction disk opposite the driving disk, the magnet disk opposite the stopping arm and the compass card opposite the inner end of the shaft and means to retain the operating button in an inner position having the driving disk and the stopping arm in engagement with the periphery of the marching indicator disk and the magnet disk, respectively.

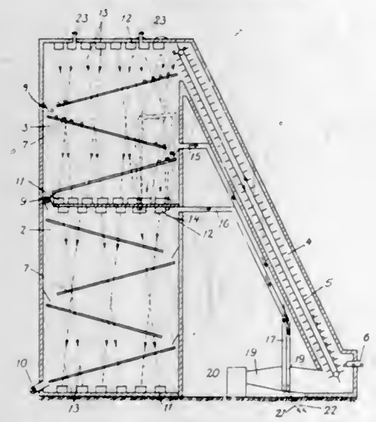
2,610,411
METHOD OF AND APPARATUS FOR BURNING FUMES
Marcus C. Steese, Hamburg, N. Y.
Application November 28, 1947, Serial No. 788,436
20 Claims. (Cl. 34—35)



1. The method of burning enamel fume, consisting in withdrawing the hot fume from an enameling chamber under its own heat head,

conducting the fume stream while hot into a confined space, directing fuel under pressure close to one wall of such confined space to restrict the induction of the fume over such wall and thereby enable the more intense heating of the latter for burning the fume delivered by the induction of the jet in all other parts of said confined space, and controllably admitting additional air into the fume stream for supporting the burning of the fuel and the fume.

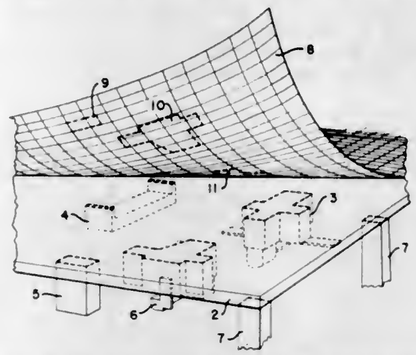
2,610,412
PLANT FOR DRYING OF SOLID MATERIALS
Christian Oskar Rasmüssen, Copenhagen, Denmark
Application October 17, 1949, Serial No. 121,733
In Denmark October 20, 1948
4 Claims. (Cl. 34—86)



1. In a plant for drying solid materials of relatively high humidity and frangible when moist including a drying tower, means within the tower for conveying the material both laterally and vertically including oppositely disposed inclines the lower end of one being adjacent the upper end of the other and extending in series throughout the tower with the solid materials dropping from incline to incline, means for introducing a blast of warm dry air into the tower, means for drawing off air at intervals from the tower, reheating the same and re-introducing it into the tower, means constituting an extension of the top of the tower extending at a downward incline, said extension defining a shaft, a conveyor disposed within the shaft and communicating with the top of the tower, a conduit in communication with the bottom of the shaft, a heat exchanger in said conduit, means for forcing a current of air over said heat exchanger through said conduit and into said shaft, and conduits extending from the tower to said heat exchanger whereby the air flowing out of the tower through said last mentioned conduits gives up its heat to the fresh air blown through the conduit communicating with the shaft to preheat the solid material carried by the conveyor.

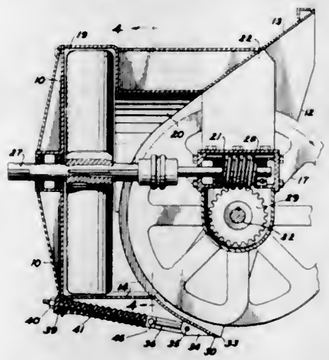
2,610,413
MODEL LAYOUT REPRO-TEMPLET METHOD
Homer H. Dasey, New Kensington, Pa., assignor to Visual Planning Equipment Co., Inc., Oakmont, Pa., a corporation of Delaware
Application September 7, 1951, Serial No. 245,564
2 Claims. (Cl. 35—16)

2. The method of making a film negative for printing a plurality of duplicate floor layout plans, which comprises mounting a plurality of three-dimensional miniature models on a rigid base of transparent material having pillar-like supports along the perimeter of said base extending in the same direction as said models, inverting said base and supporting it by said supports so that the models will extend downwardly, attaching a sheet of film having a grid marked thereon onto the surface of the base opposite to



that on which said miniature models are mounted, adhering film cutout portions, having configurations corresponding exactly to the outlines of said miniature models, onto said sheet of film in exact registry with the exposed bases of said miniature models, and finally removing said sheet together with the attached film cutout portions and using it as a pattern for the photographic reproduction of a plurality of duplicate prints therefrom.

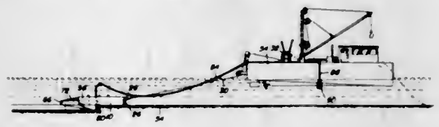
2,610,414
ROTARY SNOWPLOW
Isak Vanvick, Minneapolis, Minn.
Application May 2, 1949, Serial No. 90,905
3 Claims. (Cl. 37—43)



1. In a snow plow, the combination with a frame member, upright side walls, an upper wall and a part-cylindrical lower wall forming a forwardly facing snow gathering chamber and a shaft mounted in said side walls in concentric relation to said part-cylindrical wall, of a cutter bar comprising a part-cylindrical cutting plate extending between said side walls of the snow gathering chamber in concentric relation to said part-cylindrical lower wall and having a rearward surface thereof in overlapping relation to a lower, forward portion of the lower wall and a knife edge normally disposed forwardly of said lower wall, flange portions extending perpendicularly from

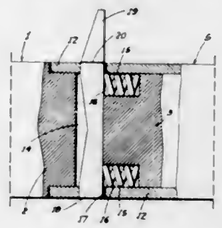
said cutting plate and rotatably mounted on said shaft, a bar mounted on and extending longitudinally of said cutting plate adjacent the rearward surface thereof in a position normally spaced forwardly of said part-cylindrical lower wall, a link pivotally connected to said bar and passing through an extension in said frame, a pair of brace rods each pivotally secured at a first end thereof to one of opposite end portions of said bar and secured at a second end thereof to each other and to said link at a location rearward of said frame extension, and spring means for urging said link in a direction forwardly of said frame extension.

2,610,415
MARINE PLOW
Donald Morris Glaser, Lafayette, La.
Application February 2, 1949, Serial No. 74,078
2 Claims. (Cl. 37—54)



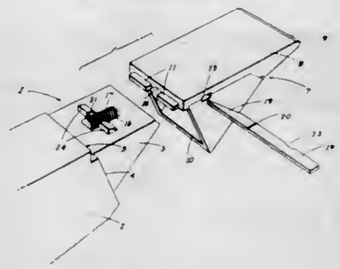
1. In a marine plow an arrowhead-shaped flotation chamber comprising top and bottom walls, rearwardly diverging side walls, said side walls terminating in an apex, a forwardly extending apertured plate secured to the apex of said side walls, forwardly extending, inwardly converging rear walls secured to the rear ends of said side walls, a plurality of baffles dividing said chamber into a plurality of compartments, a plow, a plate mounted on said plow, a plate mounted on said chamber, means joining said plates together for mounting said plow on said chamber, means operatively associated with said compartments for selectively filling and removing liquid from said compartments.

2,610,416
JOINT LOCK MECHANISM FOR DIGGING CAP OF EXCAVATING TOOTH ASSEMBLIES
Arthur N. Crawford, Baker, Oreg.
Application September 17, 1948, Serial No. 49,705
1 Claim. (Cl. 37—142)



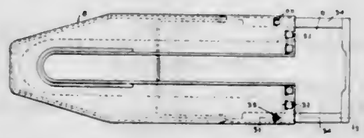
A tooth assembly for buckets comprising an adapter having a forwardly projecting tongue, a tooth having a rearwardly open socket to fit over the tongue, the tongue and the sides of the socket having transverse key slots adapted to register when the tooth is mounted on the tongue, a key adapted to be removably driven through the slots, said key having a lateral taper at its forward end, the tongue having a longitudinal recess cut in each side thereof and extending forwardly from the forward side of the tongue slot, the height of the recess being greater than the height of the slot and said recess cutting across the slot from said forward side thereof for a short portion of the width of said slot, and a compression spring fitting and countersunk in each recess and when expanded before placement of the key engaging both ends of the associated recess so as to then project into the path of the key for contraction thereby when said key is driven through the slots.

2,610,417
LOCKING DEVICE FOR REMOVABLE POINTS FOR EARTH-WORKING TOOTH UNITS
Arthur N. Crawford, Hermosa Beach, Calif.
Application January 28, 1949, Serial No. 73,385
1 Claim. (Cl. 37—142)



In an excavating tooth which includes an adaptor body having a forwardly projecting tapered tongue, and a tooth point having a rearwardly opening tapered socket to fit over the tongue in matching relationship; a longitudinal closed-end substantially semicircular groove in the upper surface of the tongue intermediate the ends thereof, a complementary groove formed in the upper inner surface of the socket and opened to the rear end thereof, the tongue groove and the forward portion of the socket groove being disposed in matching relationship when the socket is fitted over the tongue, a transverse key slot in the socket intersecting the groove therein and having its lower edge flush with said inner surface of the socket and positioned to overlap the rear end of the tongue groove when the tongue is fitted in the socket, and a helical compression spring fitted in the tongue groove and initially extending from end to end thereof whereby the rear end portion of the spring then projects into the key slot; there being a key for insertion into said key slot.

2,610,418
PAD AND COVER ATTACHED IRONING BOARD
Alpha Perry Lantz, Washington, D. C.
Original application January 2, 1947, Serial No. 719,799. Divided and this application July 15, 1948, Serial No. 38,761
2 Claims. (Cl. 38—140)



1. An ironing device comprising a sheet metal panel having a wide end, a narrow end and down-

wardly extending reinforcing side flanges provided with inwardly projecting offset portions, said panel and said offset portions having a plurality of apertures adjacent the broad end of the panel; prong members having upper and lower hooks said prong members loosely mounted and slidable in said apertures; and a cover and pad of generally rectangular configuration having a series of apertures adjacent one end positioned to register with the apertures in the panel and the offset portions, the upper hooks of the prong members in the panel and the lower hooks of the prong members in the offset portions engaging the surfaces of the panel and offset portions, said hooks raised sufficiently above said surfaces and extending through corresponding apertures in the pad and cover and engaging adjacent outer surfaces of the cover.

2,610,419
MARKING GARMENTS FOR IDENTIFICATION
Richard C. Baumbach, Cincinnati, Ohio, assignor of one-half to Irvin Frey, Cincinnati, Ohio
Application August 13, 1947, Serial No. 768,370
3 Claims. (Cl. 40—2)



1. In combination with an identification tag for attachment to a garment, a button stitched to the garment outside the tag, reinforcing and securing said tag in position on said garment, and said button having a slot extending across at a substantial angle to the line along which the stitching extends, said slot having dimensions adapted to guide a cutting instrument to cut the stitching.

2,610,420
CANE
Alexander Kohl, Fresno, Calif., assignor of one-half to Max L. Hoen, Fresno, Calif.
Application July 24, 1950, Serial No. 175,503
5 Claims. (Cl. 40—85)



1. The combination of a cane having a handle and a hollow shank, a sheet of flexible material having a pair of opposite edges, retraction means mounted within the shank connected to an edge of the sheet, a trigger pivotally mounted on the shank, an elongated rigid edge member having a guideway formed longitudinally therein affixed to the edge of the sheet opposite to the retraction means, and a control linkage slidably engaged in the guideway of the edge member having controlled connection to the trigger whereby in response to trigger operation the sheet is drawn into a position extended from the shank and tensioned between said control linkage and the retraction means.

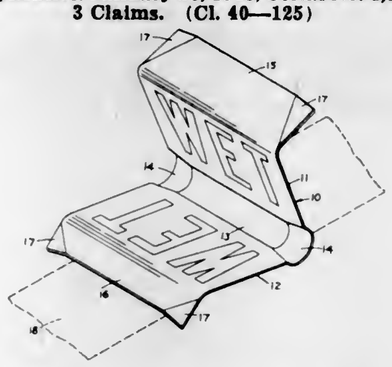
2,610,421
TRANSPARENT MOUNTING SHEATH FOR SNAPSHOTS
Henry Stanley Horn, South Orange, N. J., assignor to W. C. Horn Bro. & Co., Newark, N. J., a corporation of New Jersey
Application June 18, 1947, Serial No. 755,516
5 Claims. (Cl. 40—102)

1. A display holder having a flat-surfaced supporting member and a transparent sheath hingedly mounted on one face of the supporting member and adapted for holding snap-shots and the like, characterized in that the sheath is formed of a sheet of transparent material folded upon itself to provide two substantially parallel leaves, one leaf being slightly longer than and overlapping the other leaf in a direction measured from the fold with the outer face of the longer leaf facing the supporting member, and an unfolded substantially flat strip of flexible



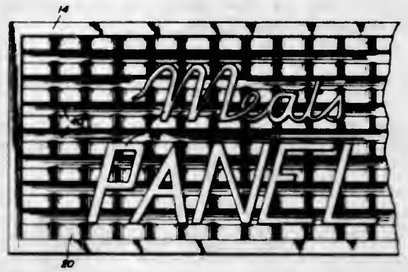
material having an adhesive coating on one side facing the supporting member bridging the corresponding faces of the leaves remote from the supporting member and extending beyond the edges of the overlapping portions of the leaves in a direction measured from the fold and adhesively securing the leaves together at said overlapping edge portions and adhesively securing the resulting sheath to the supporting member, the flexible strip providing a hinged connection between the sheath and the supporting member.

2,610,422
HIGHWAY PAINTED LINE MARKER
Frank E. Ballew, Lansing, Mich.
Application January 26, 1948, Serial No. 4,379
3 Claims. (Cl. 40—125)



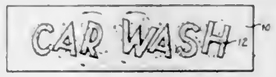
1. A warning sign adapted to be placed on a roadway to mark a painted line consisting of a symmetrical one piece body formed of material of sufficient rigidity to retain its shape under normal conditions of use, said body comprising two rectangular side walls intersecting in an acute angle, said body having projections only at the lateral extremities of the apex and the corners of the free edges of said side walls extending outwardly from the planes of the side walls to support all of said body except the extremities of the projections clear of a surface on which said body rests.

2,610,423
DISPLAY SIGN STRUCTURE
William A. Martin, Sweetwater, Tex.
Application February 13, 1948, Serial No. 8,112
1 Claim. (Cl. 40—132)



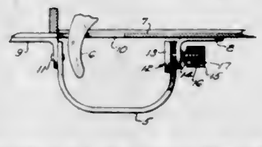
A display sign structure including a casing having a back wall, an open front and a source of illumination therein, a transparent corrugated panel at the open end of said casing, mounting means in said casing carried by said back wall and supporting said panel, a plurality of parallel upwardly inclined ribs secured to said panel and a series of indicia elements with inclined supporting notches for mounting upon said ribs, said mounting means including a threaded rod having a base plate secured to said back wall, an internally threaded sleeve on said rod, the forward end of said sleeve engaging the inner surface of said panel, an L-shaped frame secured to said front wall, and a screw extending through said panel for attachment to said sleeve and securing said panel against said L-shaped frame, said panel including a plurality of overlapping corrugated sheets, and means for detachably positioning overlapping adjacent edges of said sheets under the head of said screw, said means including a keyhole slot in the edges of one sheet, having an opening of sufficient diameter at one end and of insufficient diameter at the other end to pass the screw head, and a marginal slot in the edges of the other sheet to receive the screw but prevent passage of the head.

2,610,424
ACTIVATED SIGN
Arza E. Millard, Dayton, Ohio
Application June 14, 1949, Serial No. 98,990
1 Claim. (Cl. 40—139)



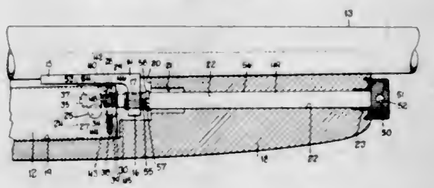
An actuating mechanism for use in a movable sign assembly including a panel member having a plurality of shafts projecting therethrough and letters fixedly attached to the shafts, the letters being located on the front side of the panel member, said actuating mechanism including a plurality of crank arms one for each of the shafts, one end of each of said crank arms being fixedly attached to its shaft and located on the rear side of the panel member, the opposite end of each of said crank arms being provided with a pin fixedly mounted therein and extending parallel to the shafts, an actuating rod, bearings mounted upon the rear side of the panel member in which bearings said rod is mounted for reciprocatory movement along a straight line, said rod having a plurality of brackets one for each of the crank arms, each of said brackets being provided with a slot extending normal to the direction of movement of the rod, each of said brackets including a set screw for adjustably attaching the brackets to said rod, the pins fixedly attached to the crank arms being seated in the slots in the brackets, an electric motor, a wheel mounted upon the armature shaft of the motor, a crank pin fixedly attached to the wheel, a crank arm having one end attached to the crank pin and the other end pivotally attached to the rod so as to impart a reciprocatory movement to the rod, the rod in turn actuating the brackets oscillating the first mentioned crank arms which crank arms have an effective constant length so as to thereby oscillate the letters from the reciprocatory movement of the rod.

2,610,425
ROTATABLE TRIGGER GUARD FOR FIREARMS
Cyril A. Moore, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War
Application May 5, 1949, Serial No. 91,619
3 Claims. (Cl. 42—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a trigger guard construction for firearms, a trigger guard having upstanding opposite ends, one of said ends having a plurality of radially disposed holes, means including a locking member for selectively securing said trigger guard to the firearm in one of a plurality of laterally rotated positions, said locking member having at least one projecting stud, resilient means operative on said locking member for urging engagement of said stud in one of said trigger guard holes, and means for preventing rotation of said locking member when said trigger guard is rotated laterally with respect to the longitudinal axis of the firearm.

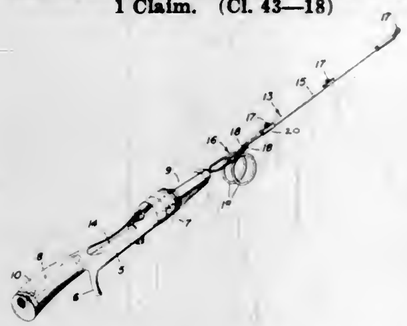
2,610,426
TAKEDOWN MECHANISM FOR FIREARMS
David Emerson, New Haven, Conn., assignor to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware
Application February 16, 1949, Serial No. 76,681
9 Claims. (Cl. 42—75)



1. In a takedown firearm, including in combination: a barrel-unit; a frame-unit including a tubular magazine; a fore-end constructed and arranged to be assembled on the underside of said barrel-unit and said tubular magazine; and

takedown mechanism for securing said fore-end and barrel-unit to said frame-unit and for preventing any relative movement between such parts, said takedown mechanism comprising connector-means mounted in said fore-end and arranged to be threaded into said barrel-unit, and detent-means carried by said tubular magazine and arranged to engage said connector-means to hold the latter in threaded engagement with said barrel-unit.

2,610,427
FISHING ROD
Horace G. Caroland, Hobart, Okla.
Application July 21, 1949, Serial No. 106,073
1 Claim. (Cl. 43—18)



A fishing rod handle having one end thereof provided with a recess to support a rod, a rod comprising two coils, each coil lying substantially in a single plane, the planes being divergent to each other, the outer end of each coil extending in one direction and spaced from each other adjacent the coils and in contact with each other remote from the coils, a coupling joining the remote portions of the coils and having a tight fit within the recess of the handle, the inner portions of the coils being spaced from each other adjacent the coils and extending in a direction opposite from the direction of the outer portions and contacting each other at a location in advance of the coils, a coupling gripping said advanced portions and a rod section mounted in said latter coupling.

2,610,428
BAIT CARRIER
Lewis D. Jones, Lawndale, Calif.
Application October 18, 1948, Serial No. 55,186
2 Claims. (Cl. 43—41)



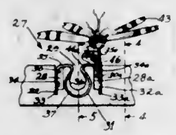
2. In a bait carrier, a body, means for attachment of the body to a fishing line, and a hook connected to the body for attachment of a bait, said body having a rearwardly extending bait supporting section and a guard section overhanging said bait section rearwardly of said hook to maintain the bait in a fixed relationship with the bait supporting section, and said body being provided with an opening on each side thereof between the guard section and the corresponding side of the bait suporting section to permit access to said hook.

2,610,429
FISH BAIT
Orel J. Thomas, Tecumseh, Ontario, Canada
Application October 18, 1946, Serial No. 704,162
1 Claim. (Cl. 43—42.17)



A fishing lure comprising, in combination, a hook, an elongated shank connected to said hook, lightweight plastic spinners mounted to rotate in opposite directions on the shank, at least one lightweight plastic bead loosely mounted on the shank at opposite sides of each spinner, said beads being separate from the spinners and both the beads and the spinners having confronting spherically curved portions which co-operate to permit easy rotation of the spinners, and a pair of separate individual weights one on the hook and the other on the end of said shank remote from the hook, one weight being relatively light and the other weight being relatively heavy, said relatively heavy weight being located adjacent the hook and said relatively light weight being located at the end of the shank remote from the hook, said relatively heavy weight controlling the action of the lure when the latter settles in the water causing it to descend vertically with the hook at the bottom and said relatively light weight controlling the action of the lure when trolling causing it to track properly in the water and preventing it from bobbing to the surface.

2,610,430
FLY HOLDER
William T. Neiman, Freeport, Ill.
Application May 22, 1946, Serial No. 671,606
12 Claims. (Cl. 43—57.5)



3. A holder for a fish-hook or the like comprising a bar having formed in a top surface thereof a pair of spaced, parallel, hook-receiving slots with an interiorly-enlarged mounting slot therebetween, and a spring member made of flat, resilient, spring strip material having its ends engaged respectively within said hook-receiving slots and having an intermediate portion thereof extending into said mounting slot, said intermediate spring portion within said mounting slot being formed to engage the interiorly-enlarged portion thereof to restrain movement of said spring with respect to said bar, the ends of said slots opening in opposite side surfaces of said bar to facilitate assembly of said spring, each of said spring end portions being engaged in resilient flatwise abutment with the wall of one of said hook-receiving slots remote from said mounting slot

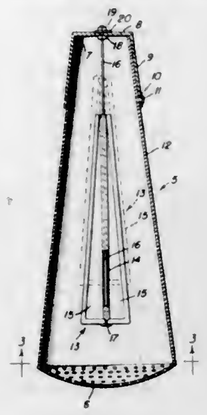
and adapted to be pressed away from said remote wall by the insertion of a fish-hook or the like between said remote wall and said spring.

2,610,431
RAT OR MOUSE TRAP
Ralph Osborn and Daisy Osborn, National City, Calif.
Application January 16, 1948, Serial No. 2,703
1 Claim. (Cl. 43—81)



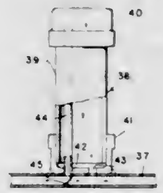
A trap of the character described comprising a rectangular base, a spring-actuated striking bar pivoted to said base, a trigger bar pivoted to the base and adapted to hold the striking bar under tension, a platform having a transverse groove adjacent its inner end, an arm formed integrally with the inner end of said platform and having upwardly and inwardly converging sides, a shelf formed integrally with said arm and extending in spaced substantially parallel relation to said platform to a point above the approximate center of said platform, a lip for engaging the free end of the trigger bar formed by the adjoining areas of said platform and said shelf, a substantially cylindrical bait holder integrally formed in the free end of said shelf, and a U-shaped staple engaged in said base and having an elongated bight portion positioned in said groove.

2,610,432
INSECTICIDAL POWDER CONTAINER AND DUSTER
John Ambrose, Wind Gap, Pa.
Application May 23, 1949, Serial No. 94,786
2 Claims. (Cl. 43—145)



1. A readily fillable insecticidal powder container and duster of the class described comprising a relatively long hollow imperforate conical container, the small end thereof being truncated and open and adapted to serve as a filler neck and, in addition, as the sole hand-grip through the medium of which the user may swing and whip the container back and forth in the air, the larger end of said container being of concavo-convex form and provided with perforations for discharging and spraying the powder from the container and to assist in sifting the powder on plants and the like, a readily applicable and removable cap having a rim detachably attached to the open truncated end of said container and serving, when the latter is in use, to close said open end, a rod attached at one end to said cap and extending axially into the powder chamber of the container and terminating in close spaced relation in respect to said concavo-convex end, and a powder agitator mounted for rotation and sliding movement on said rod, said rod and agitator being insertable and removable by way of said truncated end of the container.

2,610,433
INSECTICIDE DISPERSER
Robert D. Chisholm, Moorestown, and William C. Fest, Rancocas Heights, N. J., dedicated to the free use of the People in the territory of the United States
Application April 29, 1947, Serial No. 744,612
2 Claims. (Cl. 43—147)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

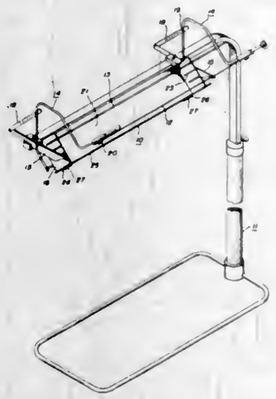


1. An insecticide disperser comprising a tube, means for releasing gas from a high-pressure source through the tube, an upright closed container for holding a quantity of free-flowing insecticide dust attached at its bottom portion to the tube, an aperture establishing communication between the tube and container and a fixed tab of lesser size than the tube, and positioned therein for deflecting a portion of the gas from the tube through the aperture and into the container, and by-passing the balance of the gas through the tube, and an opening for passage of dust leading from the container near the bottom thereof and emptying into the tube at a point beyond the fixed tab, whereby as gas is released through the tube a portion of it is deflected into the container to create pressure on the dust therein and force it through the opening into the stream of gas passing through the tube.

2,610,434
MECHANISM TO FACILITATE THE TURNING OF THE PAGES OF A BOOK
Mirko Romaniuk, Cleveland, Ohio
Application March 17, 1950, Serial No. 150,330
7 Claims. (Cl. 45—61)

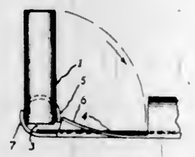
1. Mechanism for facilitating the turning of the pages of a book, comprising, a frame, book-holding means having first means and second means, said second means being fixedly carried by said frame at an acute angle to the vertical, said first means being hinged relative to said second means so that an open book may be placed in a readable position with the back cover of the open book positionable next adjacent the first means and with the open pages of the book positionable next adjacent the second means in a downwardly tilting position, said first means

being hingedly separable from said second means thereby providing clearance space relative to the



second means for the exposed one of the turnable pages of the book to be turned.

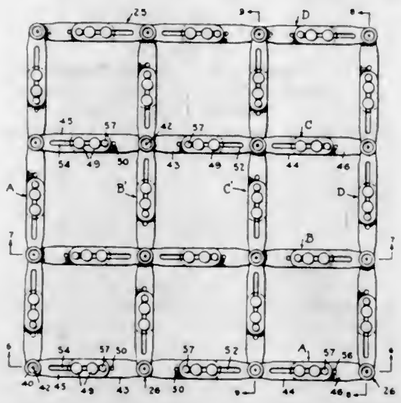
2,610,435
DRAWING BOARD CLAMP
Edward Soref, Milwaukee, Wis.
Application January 10, 1949, Serial No. 70,084
2 Claims. (Cl. 45—131)



1. A drawing board paper clamp comprising a longitudinal split resilient hollow curled base plate with a round rod snugly fitted within the curl of the base plate, said rod having a flat and being rotatable concentrically within the curl of said base plate, said flat being parallel to said base plate to permit insertion of several sheets of paper and means provided to rotate said rod approximately 90°, so as to clamp the paper between the concentric round portion of said rod and said resilient base plate curl.

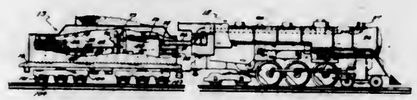
2,610,436
APPARATUS FOR MAKING TUFTED WORK
Walter A. Honeycutt, Washington, D. C.
Application March 5, 1951, Serial No. 213,907
4 Claims. (Cl. 45—138)

1. Apparatus for forming tufted work, comprising rows of substantially vertical legs, the legs in each row being spaced, the legs having their lower ends separate from and movably mounted upon a table top or the like, each leg being provided adjacent to its upper end with means for holding an element to be passed through sheet or sheets arranged upon such upper end, the rows of legs being arranged in groups which extend transversely of each other, a group of longitudinally extensible and contractable connecting elements pivotally connected with the legs to swing substantially horizontally with relation thereto, a group of longitudinally extensible and contractable connecting elements pivotally connected with said legs to swing substantially horizontally with relation thereto, the second group of connecting elements extending transversely of the first group of connecting elements, each



connecting element being horizontally rigid and the connecting elements serving as the sole means of connection between said legs.

2,610,437
AUTOMATIC PUFFING UNIT FOR TOYS
William R. Smith, Philadelphia, Pa., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application June 20, 1946, Serial No. 677,932
17 Claims. (Cl. 46—9)

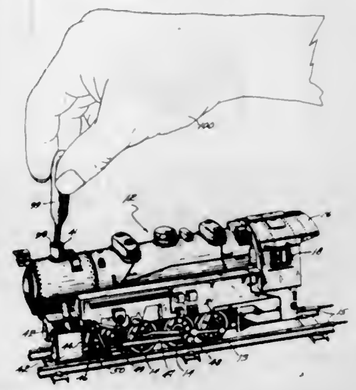


1. A rechargeable fume generating unit of miniature size for containment in the restricted space of hollow miniature toys, comprising in combination with an external wall of the toy, a box-like enclosure within said toy partitioned to divide said enclosure into underlying and superimposed neighboring compartments, means operative to feed a fume source substance automatically from said underlying compartment to said superimposed compartment, means operative to vaporize said substance in said superimposed compartment, and an intake passage extending between said underlying compartment and said external wall of the toy and having an inlet receptive to said substance opening through said wall at a level higher than both of said compartments, said passage extending from said inlet downward past said superimposed compartment thereby to receive a replenishing charge of said substance and lead the same by gravity from said inlet downward past said superimposed compartment into said underlying compartment.

2,610,438
STACK RECHARGED PUFFING UNIT FOR TOYS
William R. Smith, Philadelphia, Pa., assignor to The A. C. Gilbert Company, New Haven, Conn., a corporation of Maryland
Application August 20, 1946, Serial No. 691,848
14 Claims. (Cl. 46—9)

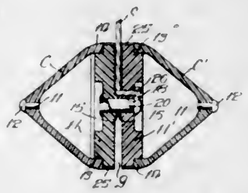
1. In a toy puffing locomotive having an upwardly directed smoke stack outlet for the discharge of visible fumes, the combination with

said outlet of, a source of fumes within said locomotive including a magazine for storing a charge of heavier-than-air vaporizable fume source substance, a fume collecting chamber, a fume discharge conduit connected to lead lighter-



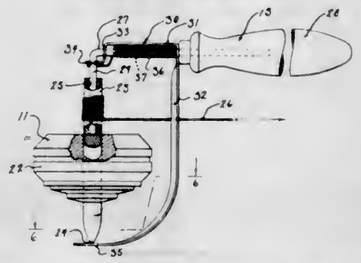
than-air fumes from said source and direct them toward said stack outlet, and a filling conduit in communication with said discharge conduit connected to by-pass said fume collecting chamber and lead charges of said substance from said fume discharge conduit to said magazine.

2,610,439
CLIMBING AND SPINNING TOY
Steffen P. Németh, Chicago, Ill.
Application February 25, 1950, Serial No. 146,298
2 Claims. (Cl. 46—61)



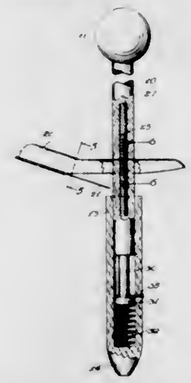
1. A climbing-spinning toy, comprising a pair of opposed and co-axially disposed conical bodies, substantially complemental circular heads individually and fixedly engaged with the adjacent ends of the conical bodies, axially arranged and disposed hubs on the adjacent and outer sides of said heads endwise abuttingly engaged and fixedly interconected and relatively spacing the heads whereby to form therebetween a narrow circumferential channel opening outwardly onto said heads and terminating at and about said endwise abuttingly engaged hubs, an inner portion of said channel communicating with a lateral way in one of said heads for engagement therethrough and securement therein of one end portion of a cord wound within and about said channel, and the outer peripheries of said circular heads being each correspondingly inset with relation to the peripheral portions of the adjacent ends of said conical bodies whereby to form a circumferentially disposed channel of a depth less and a width greater than that of said first channel for the reception therein of a wound flexible ribbon independently of the wound cord.

2,610,440
SPINNING TOP
Joseph J. Manske, Lester J. Martin, and Raymond J. Bernake, Milwaukee, Wis.
Application March 6, 1947, Serial No. 732,714
2 Claims. (Cl. 46—65)



1. In a toy, a spinning top having an axle provided with a bore, and a support and releasing device for the top including a handle, an arm extending forwardly of the handle, a depending shaft on the arm removably received in said bore, a frame laterally rockably mounted on the arm including a supporting foot normally disposed under the top for engaging the spinning point of the top, and means for rocking the frame to move the supporting foot from under the spinning point.

2,610,441
CRICKET CANE
John E. Unger, Chicago, Ill.
Application October 8, 1951, Serial No. 250,249
4 Claims. (Cl. 46—175)

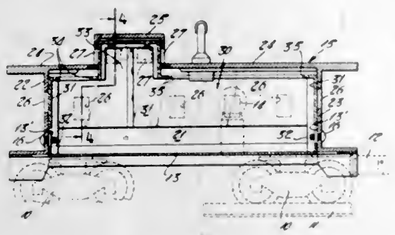


1. A noise-making toy comprising a rod formed with a handle at one end, a base at the other end, said rod being movable relative to the base, and a clacking device carried by the rod and including an actuator directed toward said base, the movement of the rod in the direction of the base inducing the operation of said actuator, said clacking device being interposed between sections of the rod.

2,610,442
TOY CABOOSE
Joseph L. Bonanno, Madison, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York
Application August 2, 1948, Serial No. 42,099
4 Claims. (Cl. 46—218)

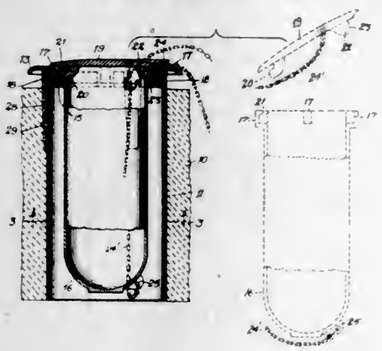
1. A toy railroad car having an inverted, box-like car body with window openings in its side walls, a one piece rigid, transparent insert tele-

scopically received in the car body with its side walls closely fitting the car body side walls about



the window openings so that the window openings appear glazed, and means to hold the insert in such position.

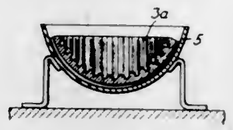
2,610,443
GROUND VASE
Axel S. Carlson, New York, N. Y.
Application June 23, 1949, Serial No. 100,918
4 Claims. (Cl. 47—41)



3. A ground urn apparatus which comprises a well to receive an urn, a ground plate disposed on the ground at the top of the well, a shell lining the well, fingers on the ground plate dependent therefrom and connected to the shell, the ground plate having a cup-shaped recess, the bottom of which is formed by an inwardly projecting ring-like flange having an aperture therein, a plurality of seats on the upper surface of the flange, an urn having projecting ears at its upper end adapted to rest in said seats, a cover disposed on top of the ground plate, a dependent finger on the cover, said urn having a socket to receive said finger, a second socket on the urn opposite the first mentioned socket, and a dependent lug on the cover and having a cam-shaped edge to engage with a wall of said second socket to frictionally lock the cover to the urn.

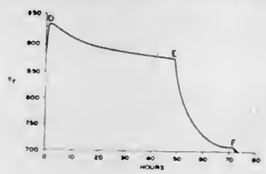
2,610,444
METHOD OF PRODUCING ARTICLES OF GLASS
Fredrik Wilhelm Anton Kurz, Nybro, Sweden
Application July 7, 1949, Serial No. 103,489
In Sweden February 2, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires February 2, 1962
11 Claims. (Cl. 49—79)

1. A method of producing articles of glass which consists in heating a glass body to a plastic state, forming designs on opposite sides of the glass body, the design on one side of the glass body having different general directions than that on the opposite side thereof, reheating the glass body on a portable plate so that one side is heated to a higher temperature than the opposite side and is provided with a glossy finish and to a temperature which causes any fins or thin edges formed on the glass body to be melted into



the mass of the glass body, and placing the glass body while carried by the plate and in a plastic state on a curved mould and in such a manner that the plastic glass body assumes the general shape of the curved mould without affecting the general shape of the designs on the glass body.

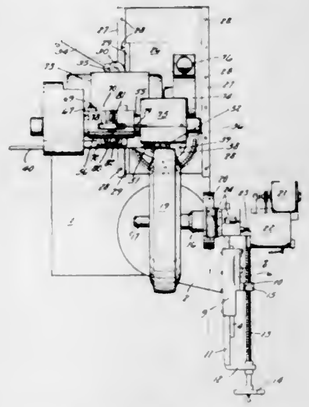
2,610,445
METHOD OF STABILIZING THE MOLECULAR ARRANGEMENT OF GLASS THERMOMETERS
Laurence C. Liberatore, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application April 14, 1951, Serial No. 221,011
11 Claims. (Cl. 49—89)



11. The method of stabilizing the molecular arrangement of a glass thermometer including a stem and a bulb joined thereto which comprises immersing said bulb and a portion only of the stem in the region of its junction to said bulb, in a bath heated to a given temperature above the strain point of the glass of the bulb for a period of time of sufficient duration to substantially effect molecular stabilization of the bulb glass at the given temperature while the remainder of the stem remains at a temperature below the warping temperature of the stem, gradually cooling the bath to a temperature value below the strain temperature of the bulb glass, and removing the thermometer from the bath to reduce the temperature of the thermometer to room temperature.

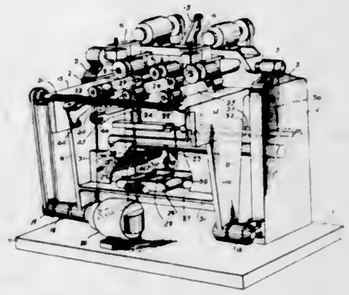
2,610,446
MACHINE FOR BUFFING TIRES
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Original application March 19, 1948, Serial No. 15,791. Divided and this application September 16, 1949, Serial No. 116,180
2 Claims. (Cl. 51—51)

1. In a device of the class described a stationary base member, a horizontally disposed support member rotatably supported on a stub shaft projecting vertically from said base member, a standard projecting vertically upwardly from said support member, an axle projecting horizontally from said standard for supporting a rim equipped casing mounting wheel, a horizontal slide member slidably supported on said base member, a pedestal projecting vertically from said slide member, a housing mounted on the upper end of said pedestal, a horizontal cylindrical bore in said housing, a sleeve disposed in said bore for axial movement therein, a rotary shaft journalled in said sleeve and having its opposite ends projecting axially therefrom, a pulley slidably secured to one end of said shaft for rotation therewith, a pair of buffing wheels secured to the opposite



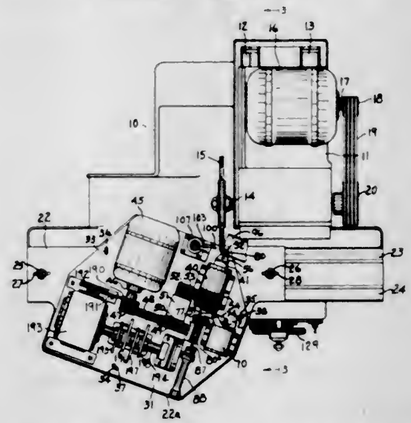
end of said shaft in axially spaced relation for movements to and from a vertical plane extending through the axis of said stub shaft and at right angles to said rotary shaft, a gear rack on the upper wall portion of said sleeve, a gear segment pivotally secured to said housing above said rack and meshing therewith, and a handle on said gear segment for imparting oscillatory movement thereto with corresponding reciprocatory movement to said sleeve for bringing said buffing wheels alternately into operative position in said vertical plane.

2,610,447
AUTOMATIC PATTERN CONTROLLED MACHINE TOOLS
William Peter Bobbs, Toronto, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Peel, Ontario, Canada, a corporation
Application May 24, 1951, Serial No. 228,033
11 Claims. (Cl. 51—101)



1. In a machine tool, a base, a tool head, a worktable having supporting arms extending therefrom at substantially right angles thereto, bearings on the base for pivotally supporting the said arms at the ends thereof, a spindle for a workpiece rotatably mounted on the worktable, a drive shaft, a bearing for rotatably supporting the drive shaft relative to the base substantially coaxial with the pivotal axis of the worktable, a drive shaft for the workpiece spindle rotatably mounted on the worktable with its axis substantially parallel to the axis of the first mentioned drive shaft, and a driving connection between the said drive shafts, whereby continuous rotating movement is imparted to the spindle during pivoting of the work table and at all positions thereof.

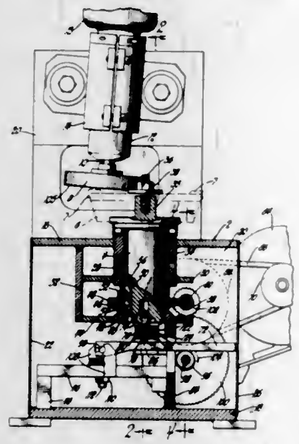
2,610,448
GRINDING MACHINE
Stewart S. Mader, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application October 26, 1949, Serial No. 123,640
2 Claims. (Cl. 51—105)



1. In a grinding machine having a base, a transversely movable wheel slide thereon, a rotatable grinding wheel on said slide, a swivel plate adjustably mounted on said base, a rotatable work support on said plate including a hollow spindle thereon, means including a motor continuously to rotate said spindle, a work collet in the forward end of said spindle, a hollow sleeve slidably keyed within said spindle, means including a piston and cylinder to actuate said sleeve to clamp and release said collet, a cam-actuated control valve therefor, a central bore within said sleeve to facilitate conveying work pieces to said collet, means including a piston and cylinder to feed said grinding wheel toward and from said collet to grind a work piece to a predetermined size, a solenoid-actuated control valve, a cam-actuated limit switch therefor, a work loading magazine for supporting a plurality of work pieces to be ground, a work loading tray to receive successive work pieces from said magazine and to position them in axial alignment with the bore in said sleeve, means including a reciprocable plunger to feed successive work pieces from said tray through the hollow spindle into the collet, means including a piston and cylinder to actuate said plunger so as to feed a work piece to be ground into said collet and to eject a ground work piece therefrom, a cam-actuated control value therefor, means including a movable work locating stop to locate successive work pieces in a predetermined position within said collet for a grinding operation, a piston and cylinder means to move said stop to and from an operative position, a cam-actuated control value therefor and a cycle control synchronously to actuate said valves and said limit switch so as to control actuation of said work

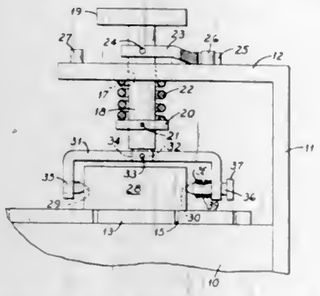
feed plunger, actuation of said work locating stop, actuation of said collet, and actuation of said wheel feed so as to produce an automatic cycle of operation.

2,610,449
AUTOMATIC MILLING CUTTER GRINDER
Don A. Cargill, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 6, 1948, Serial No. 58,719
11 Claims. (Cl. 51—123)



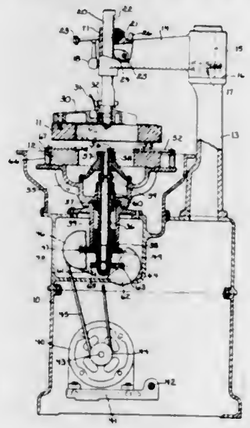
7. An automatic milling cutter grinding machine, comprising a rotatable and reciprocable spindle having means adjacent one of its ends for attaching a milling cutter, a support journalling and reciprocably guiding said spindle, an abrasive member on said support, driving means for continuously rotating the spindle, and means including a single lobed cam geared to said driving means and a pivoted follower in operative engagement with the cam for effecting a reciprocation of the spindle in timed relation with its rotation, said cam and follower being mounted on said support.

2,610,450
APPARATUS FOR FINISHING CYLINDRICAL ARTICLES
Fred L. White, Chicago, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application March 8, 1950, Serial No. 148,455
4 Claims. (Cl. 51—129)



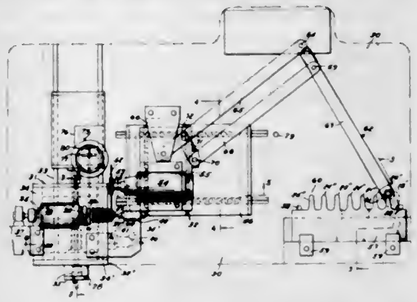
1. Apparatus for finishing cylindrical surfaces by abrasion, said apparatus comprising a rotatable platen having an abrasive flat annular surface, a frame on which the platen is rotatably mounted, and means on said frame for supporting on said annular surface an article having a cylindrical surface, with the said cylindrical surface contacting the annular surface, said means comprising a yoke, pivot means on the yoke for supporting the article for rotation about the axis of the cylindrical surface, a pin, means mounting the yoke on the pin with a limited universal movement, and means on the supporting means for supporting the pin above the annular surface to locate the article on the annular surface.

2,610,451
LAPPING MACHINE
Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application June 25, 1949, Serial No. 101,422
2 Claims. (Cl. 51—161)



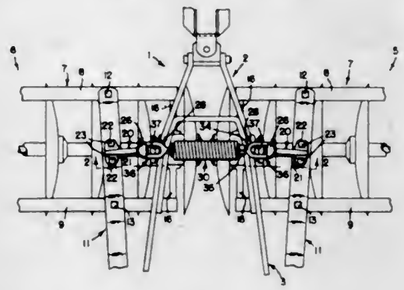
1. In a lapping machine having a base, a vertically movable upper lapping annulus having a plane operative face thereon, a vertical spindle slidably supported relative to said base to support said annulus, a lower work supporting annulus having an upper plane face rotatably supported on said base in axial alignment with the upper annulus, a plurality of radial V-shaped work supporting grooves extending across the upper plane surface of the lower annulus simultaneously to support a plurality of work pieces to be lapped, means including a manually operable lever-actuated gear and rack operatively connected to move said spindle for moving the upper annulus toward and from the lower annulus to position the lapping annuli in lapping engagement with the work pieces to be lapped, means including a motor on said base operatively connected to rotate at least one of said annuli, the rotation of said annuli serving to impart a rotary motion to the work pieces within said grooves, a freely movable work retainer ring surrounding the lower annulus, said ring having an internal cylindrical work engaging surface, a revolvable inner retainer ring within said lower annulus, said latter ring having an outer cylindrical work engaging surface, and means including a positively driven crankpin supported on said base within the lower annulus which is operatively connected to impart a revolving movement to the inner retainer ring simultaneously to impart an axial reciprocatory movement to said work pieces relative to said annuli.

2,610,452
METHOD OF MANUFACTURING FORMING ROLLS
Walter P. Hill, Pontiac, Mich., assignor to Calumet & Hecla Consolidated Copper Company, Calumet, Mich., a corporation of Michigan
Application September 25, 1950, Serial No. 186,597
5 Claims. (Cl. 51—289)



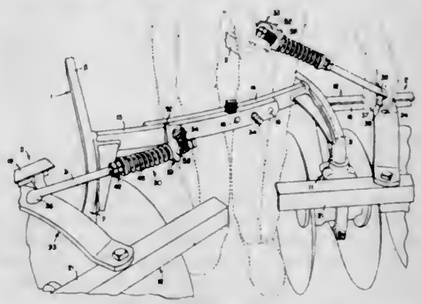
1. In the manufacture of a forming roll made up of a plurality of individual axially aligned discs having the peripheral portions preformed to provide annular grooves therebetween of a width less than the clearance required for operation of a material removing tool, the method which consists in securing a plurality of disc blanks on an arbor with adjacent blanks spaced from each other axially of the arbor a distance which is substantially greater than the distance between adjacent formed discs when the latter are assembled to make up said forming roll, relatively moving the arbor with the blanks thereon and a material removing tool so that the tool projects successively into and out of the annular spaces between adjacent blanks, and guiding relative movement of the arbor and tool to successively form the peripheral portions of the blanks to a contour which corresponds to the contour of the peripheral portions of the forming roll discs and in the same sequence the contoured discs assume in the completed roll.

2,610,453
DISK GANG SPRING BIASING MEANS
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 28, 1948, Serial No. 46,583
1 Claim. (Cl. 55—81)



In a disk harrow of the type including two oppositely extending mutually reacting disk gangs: the improvement which comprises spring means for resisting the upthrust at the inner ends of the gangs, including a bracket fixed to each gang, a spring, a pair of links screw threadedly connected with the ends of said spring, one threaded connection being right hand and the other being left hand, whereby turning said spring relative to said links serves to adjust the positions of the latter relative to the spring, the outer ends of said links being slotted, each of said brackets including a section extending generally upwardly and having a rounded neck portion extending generally vertically upwardly from the upper end of said section, and the upper part of said vertical neck portion carrying a generally semicircular head portion fixed adjacent its widest part to said neck portion and disposed in a generally horizontal plane and extending laterally outwardly of the harrow alongside but spaced generally vertically above the upper part of the associated generally upwardly extending section, said vertical spacing being greater than the thickness of the slotted portion of the associated link, the width of the slot in each link being greater than the diameter of the associated rounded vertical neck portion and the width and length of the slot being sufficient to provide for turning each link into a position with the slotted portion disposed in a generally vertical fore-and-aft extending plane, passing the slotted portion over the semicircular head portion of the bracket and swinging the slotted link portion downwardly into a horizontal plane so as to lie generally in the space between said head portion and the upper part of the associated inwardly and upwardly extending section and so as to embrace the associated neck portion, and then turning each link into a position aligned with the other link, the length of the slot in each of said screw-threaded links being of sufficient length to accommodate swinging said links into alignment with each other and with the spring means, disposed between said links, whereby the spring may be threaded onto the adjacent ends of said links and turned relative thereto to establish the desired connection and tension between said brackets.

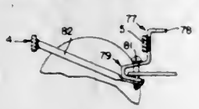
2,610,454
DISK GANG BIASING MEANS
William P. Oehler and Charles H. Youngberg, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 28, 1948, Serial No. 46,686
3 Claims. (Cl. 55—81)



1. In a disk harrow of the type including a main frame and a pair of disk gangs connected at their inner ends with said frame for movement relative thereto about generally horizontal fore and aft extending and vertical axes, the improvement which comprises spring means for resisting upthrust at the outer ends of said gangs due to soil pressure against the disks, said means including an apertured bracket fixed to the inner end of each of said gangs, a spring rod for connecting each bracket to said main frame and

having at its outer end an abutment shoulder and a hook-like end having a first portion extending axially of said abutment shoulder and a right angular portion, said hook-like end being adapted to be interengaged with the aperture in the associated bracket so that said abutment shoulder engages the associated bracket at one side thereof and said right angular portion extends through the aperture in said bracket and lies against the other side thereof so as to serve to hold the rod engaged with the bracket while accommodating rocking and pivotal movement of the gang relative to the rod, a pair of brackets fixed to said main frame, each of said last named brackets having an aperture adapted to receive the inner end of the associated spring rod, and a spring acting between each rod and the associated main frame bracket.

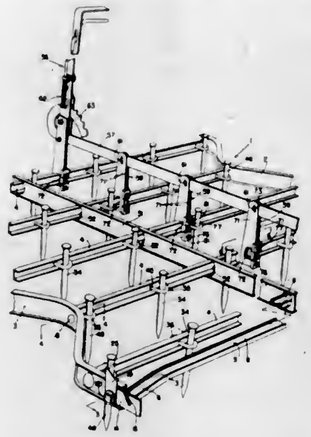
2,610,455
OFFSET DISK HARROW
William P. Oehler and Charles H. Youngberg, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 30, 1948, Serial No. 5,256
8 Claims. (Cl. 55—83)



3. An offset disk harrow comprising front and rear gangs pivotally connected together for movement between angled and transport positions, a generally horizontal, fore-and-aft extending hitch structure having sides and pivotally connected at one side with the forward gang adjacent one end thereof, an angling bar connected at its rear end with the rear gang and extending forwardly therefrom, bell crank means pivotally mounted on the front gang and including a pair of arm sections disposed at an angle to one another and extending generally from the same side of the pivot of the bell crank on the front gang and generally toward the other side of said front gang, one arm section being longer than the other, means pivotally connecting the other side of said hitch structure to the outer end of the longer of said arm sections, and means connecting the forward end of said angling bar with the shorter of said arm sections, the angle between the latter being such that when the gangs are in angled position the longer arm section extends generally laterally while the shorter arm section extends forwardly to such a degree as to bring the line connecting the front and rear pivots of the angling bar appreciably closer to the pivot of the bell crank means than the point of pivotal connection of the hitch structure with the outer end of the longer arm section, whereby the draft pull applied to the outer end of said longer arm section acts with sufficient mechanical advantage through the shorter arm section against the angling bar to hold the rear gang in angled position.

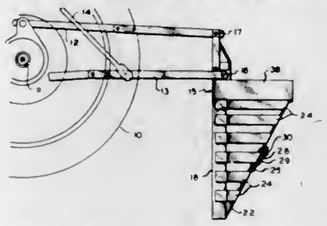
2,610,456
SPIKE TOOTH HARROW
Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application May 11, 1945, Serial No. 593,189
2 Claims. (Cl. 55—103)

1. A spike tooth harrow comprising a generally U-shaped frame having side members and a forward transverse connecting member, the latter member comprising a transverse bar having its ends bent into a generally vertical position and apertured, each of said side bars comprising members receiving the bent end portions of said front transverse bar, and means for fastening the bent end portions of said transverse bar to the forward ends of said side bars, the end portions of said forward transverse connecting member having, immediately inwardly of said vertically disposed apertured ends, downwardly bent portions, thereby the central portion of said transverse member between said downwardly bent portions is disposed substantially in the generally horizontal plane of the central portions of said end bars,



the apertures in said vertically bent ends of the forward transverse connecting member being disposed in said generally horizontal plane and a plurality of transverse tooth bars pivotally connected at their ends to said side bars in the generally horizontal plane of said side bars, and a bracing member having apertures receiving said tooth bars and the forward portion of said bracing bar being adapted to receive the central portion of said front transverse bar the apertures in said bracing member lying substantially in said generally horizontal plane, whereby stresses transmitted from one tooth bar to the other and to said transverse connecting member are applied in substantially said plane.

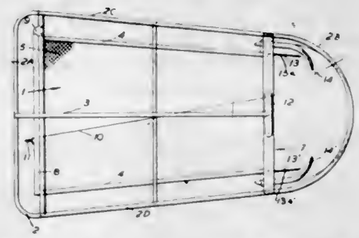
2,610,457
POTATO HARVESTER
Elmer H. Holden, Poplarville, Miss.
Application August 18, 1949, Serial No. 110,993
8 Claims. (Cl. 55—139)



1. Harvesting apparatus comprising a frame, draft means for moving said frame with relation to the earth, side bars secured to said frame and extending downwardly to the earth, a cross bar connecting the lower ends of said side bars, the forward edges of said side bars and said cross

bar being beveled to provide cutting edges, rearwardly inclined spaced bars connecting said cross bar and said frame, a plurality of spaced substantially horizontally disposed bars connecting said side bars and said inclined bars, a cross member removably secured to said inclined bars substantially midway between said frame and said cross bar, spaced members secured to said cross member and removably secured to said cross bar whereby said cross bar and a portion of said side bars may be disposed below the surface of the earth and upon movement therethrough the earth will be pulverized and pass between said horizontally disposed bars and said spaced members, and relatively large obstacles disposed in the earth in the path of movement of said apparatus will be screened therefrom to be discharged rearwardly through the space above said cross member and weight receiving means provided on said frame whereby said apparatus may be weighted sufficiently to prevent undesirable upward movement thereof.

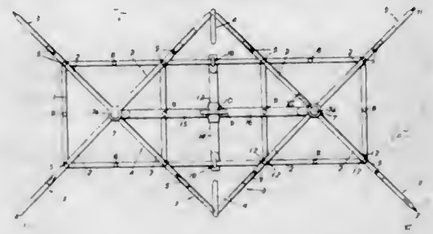
2,610,458
APPARATUS FOR HARVESTING UNDER-WATER SEAWEED
John Morrison Hay and Robert Faulds McIver, Edinburgh, Scotland, assignors to Scottish Seaweed Research Association, Edinburgh, Scotland
Application December 14, 1949, Serial No. 132,981
In Great Britain December 25, 1948
9 Claims. (Cl. 56—8)



1. Apparatus for harvesting under-water seaweed comprising a frame to be dragged over a seabed, seabed-engaging side skids of framelike construction mounted on said frame, and at least partly reticular receptacle incorporated in said frame, being located between and within said skids and having an inlet mouth in front, and weed cutting means mounted on said frame and located within the limits of said skids and adjacent the mouth, so as to cut weed passing into the receptacle, whereby the mouth and said cutting means are maintained, by said skids, clear of the seabed, said skids consisting of an opposed pair of substantially rectangular tubular frames located in vertical planes and having their front portions forwardly curved in front of said inlet mouth.

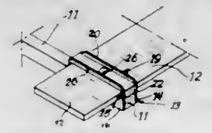
2,610,459
APPARATUS FOR HARVESTING SEAWEED UNDER WATER
William MacKenzie, Edinburgh, Scotland, assignor to Scottish Seaweed Research Association, Edinburgh, Scotland
Application December 28, 1949, Serial No. 135,487
In Great Britain December 31, 1948
11 Claims. (Cl. 56—8)

1. Apparatus for harvesting under-water seaweed comprising, in combination, a frame, seabed-engaging skids rigidly mounted on said frame for downward and forward projection therefrom and curved back upon themselves at their ends remote from the frame in a direction away from the seabed to mitigate fouling of obstacles on the seabed, and fluke means mounted on said



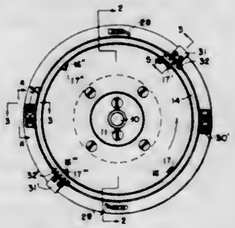
skids and adapted to engage the weed and tear it from the seabed, when the apparatus is dragged over the seabed with the frame in the trailing position.

2,610,460
PADDLE WHEEL REINFORCEMENT MEANS
Edward O. Hendrickson, Grenville, S. Dak.
Application August 23, 1949, Serial No. 111,823
5 Claims. (Cl. 56—220)



1. The combination with a paddle wheel having a spoke arm, an axially aligned paddle-slat overlapping the arm, and a square-lugged button-headed bolt securing the one to the other, of reinforcing and joining means associated with said bolt comprising a U-shaped washer adapted to receive and hold the slat between the arms of the U, said washer being positioned between the bolt head and the slat and having a square hole adapted to snugly receive the square-lugged portion of the bolt therein, and the washer having upturned bridge reinforcing arms on the opposite side thereof from the U-shaped arms, said bridge arms being adapted to reinforce the washer, and in turn reinforce the slat held thereby, for transmitting bolt head pressure throughout the entire washer surface to the slat.

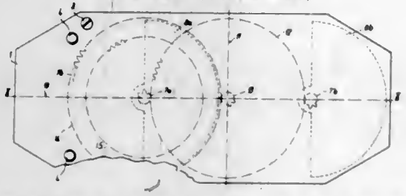
2,610,461
SPINNING, TWISTING, AND LIKE APPARATUS
Ralph Ragan, Atlanta, Ga.
Application November 15, 1949, Serial No. 127,283
16 Claims. (Cl. 57—67)



1. In apparatus of the class described, a spindle, thread guide support means mounted for rotation

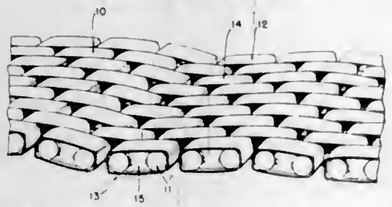
with said spindle, said support means being also mounted for axial movement with respect to said spindle, an anti-friction bearing seated on said support means, and a thread guide carried by said anti-friction bearing.

2,610,462
SHAPED TIMEPIECE AUTOMATICALLY REWOUND BY MEANS OF A MOVABLE MASS
Marc Huguenin, Geneva, Switzerland, assignor to Montres Rolex SA (Rolex Watch Co Ltd.), a corporation of Switzerland
Application July 13, 1950, Serial No. 173,532
In Switzerland July 16, 1949
5 Claims. (Cl. 58—82)



1. In a shaped time-piece for automatic winding comprising a barrel, a movable winding mass and a gear train connecting said mass to said barrel; said winding mass consisting of two masses rotatably mounted at points situated substantially in the longitudinal axis of the movement and a wheel forming part of said gear train with which said masses cooperate, said masses having constantly both the same orientation with respect to said longitudinal axis.

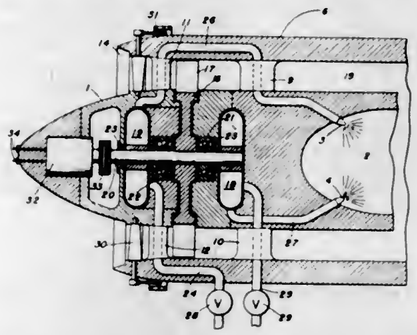
2,610,463
METHOD OF MAKING BRACELET CHAINS
Eugen Prestinari, Summit, N. J., assignor to Gemex Company, Union, N. J., a corporation of New Jersey
Application April 3, 1947, Serial No. 739,110
4 Claims. (Cl. 59—35)



1. The herein described art of forming a link in a bracelet chain comprising fitting a pair of oblong links over the opposite ends of a pair of pins so that the ends of the pins lie adjacent the ends of the links with space between the pins, forcing metal inserts having a coating of solder thereon between said pins at the opposite ends thereof and heating said links to form a solder connection between the parts.

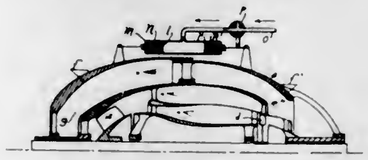
2,610,464
JET ENGINE HAVING FUEL PUMPS DRIVEN BY AIR TURBINE IN THRUST AUGMENTING AIR DUCT
William A. Knoll, United States Navy
Application February 1, 1946, Serial No. 644,995
4 Claims. (Cl. 60—35.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A reaction motor comprising an elongated combustion chamber having a tapered constriction forming a nozzle at the rearward end thereof, a casing surrounding and annularly spaced from the combustion chamber to provide an annular duct contiguous with the outer wall of the combustion chamber, one end of said casing adapted to form an air scoop forwardly and the other end adapted to discharge air from said duct rearwardly with gases emerging from said nozzle of said combustion chamber, an axial flow turbine having a shaft rotatably mounted axially



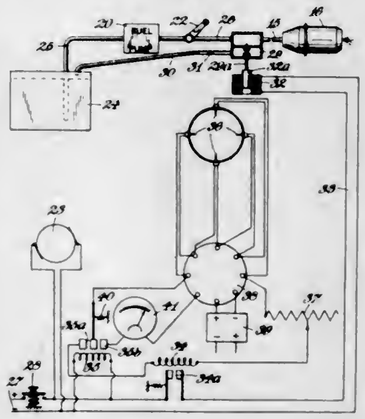
ahead of the combustion chamber and having blades disposed in said annular duct, where air entering the duct through said scoop will drive the turbine, and pump means on said turbine shaft for delivering propellant to the combustion chamber, the rearward end of said housing having a tapered constriction forming a nozzle in line with and adjacent the combustion chamber nozzle whereby the normal outflow of gases from said combustion chamber is accelerated.

2,610,465
AUXILIARY THRUST MEANS FOR JET-PROPELLED AIRCRAFT
Roger Jean Imbert and René Anxionnaz, Paris, France, assignors, by direct and mesne assignments, to Societe Rateau (Societe Anonyme), Paris, France, a company of France
Application August 6, 1946, Serial No. 688,594
In France September 27, 1945
2 Claims. (Cl. 60—35.6)



1. In an aircraft having for the populsion in normal flight a main jet device of the kind comprising an air compressor and a power engine for driving the same, both arranged in a casing extending in a fore-and-aft direction and provided with a front aperture for the intake of the atmospheric air and with a jet nozzle rearwardly directed, the provision of an auxiliary ram-jet engine having an annular duct coaxially arranged around the casing of the main jet device, a front annular air intake coaxial with said aperture of said main jet device, a rear annular exhaust nozzle coaxial with the jet nozzle of the main jet device, means to inject fuel into said annular duct, and means for igniting the fuel, said duct with its intake and its exhaust nozzle forming a ram-jet air-and-gas-circuit distinct from the circuit of said main jet device, said annular intake being divergent so as to perform the total compression of the incoming air only by ram effect, means being further combined with said annular intake for throttling at will said intake.

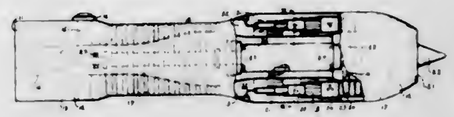
2,610,466
GAS TURBINE ENGINE WITH STARTING DEVICE AND AUTOMATIC FUEL CONTROL MEANS
David Havelock Ballantyne, Littleover, and Harold Edward William West, Allestree, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application June 24, 1949, Serial No. 101,184
In Great Britain July 2, 1948
5 Claims. (Cl. 60—39.14)



4. In a gas-turbine engine, a pressure fuel supply for the engine, a bleed pipe through which fuel can be bled off from the pressure fuel supply an electrically-operated valve controlling the flow from the pressure fuel supply through the bleed pipe, a low current operated relay having a relay coil and having switch contacts connected in series with said valve, an electric starter motor for the engine connected in parallel with said switch contacts and said valve, an electric current supply line to conduct current for said electric motor and for said switch contacts and said valve, and a thermo-electric device responsive to changes in the temperature of hot working gases in the engine and connected with said relay coil so that, when the temperature of hot working gas exceeds a preselected value during starting, current is supplied to the valve to open it and fuel is bled off from said pressure fuel supply.

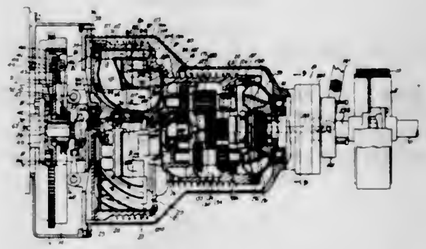
2,610,467
COMBUSTION CHAMBER HAVING TELESCOPING WALLS AND CORRUGATED SPACERS
Ernest F. Miller, Lansdowne, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 3, 1946, Serial No. 659,284
5 Claims. (Cl. 60—39.32)

1. An annular side wall for a combustion chamber having upstream and downstream ends, considered in the general direction of flow of gases therethrough, said side wall comprising a series of annular sections, each of said sections having both its upstream end and its downstream end disposed downstream of the corresponding ends of the adjacent section upstream thereof, and annular spacing members positioned between and joining adjacent sections of said series, said



spacing members being corrugated circumferentially, whereby passages are provided for admission of air to the chamber through the annular wall.

2,610,468
ROTARY HYDRAULIC TORQUE CONVERTER
Daniel F. McGill, Portland, Oreg., assignor to Donald W. Green, trustee, Portland, Oreg.
Application June 24, 1946, Serial No. 678,902
22 Claims. (Cl. 60—54)



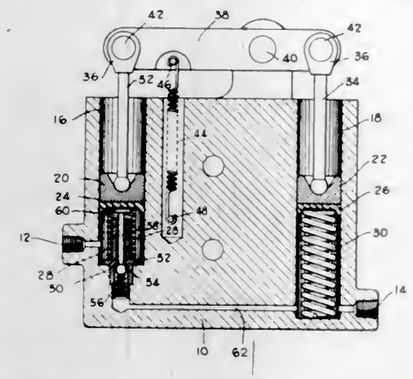
2. In a power transmission, an impeller and a plurality of sets of vanes constituting working stages in a return fluid circuit to the eye of the impeller, and annular passages at opposite ends of said stages for directing hydraulic fluid from said impeller back and forth in opposite axial directions through said working stages in succession before the fluid is returned to the impeller.

19. In an hydraulic transmission, an impeller having backwardly inclined blades with reference to the direction of rotation, concave rear surfaces near the inlet ends of the blades, forwardly curved outlet ends on said blades, and short blades between said blades to prevent return circulation and eddies behind said outlet ends of said blades.

2,610,469
FLUID PRESSURE BOOSTER THROUGH DIFFERENTIAL LEVER AND EQUIVALENT STRUCTURE
James W. Rowland, Jackson, Mich.
Application September 9, 1949, Serial No. 114,770
4 Claims. (Cl. 60—54.6)

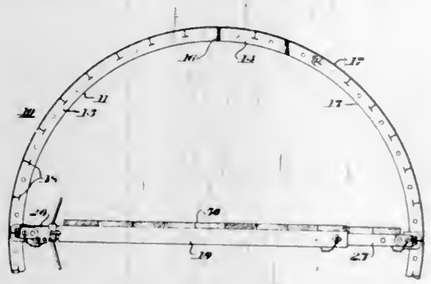
1. A fluid pressure booster unit comprising a body portion having fluid chambers defined therein with movable wall structures, differential lever mechanism connected between said wall structures whereby displacement of one wall structure results in the displacement of the connected wall structure, a fluid conduit extending between said chambers, a check valve and seat in said conduit to prevent movement of fluid in said conduit in one direction with said valve engaging said seat, and means for moving said valve from said seat to permit a return flow of fluid

past said valve to equalize pressure in said chambers following a development of differential pressures therein by displacement of said wall structures through said differential lever mechanism.



2,610,470
TUNNEL LINING STRUCTURE AND GAUGE THEREFOR

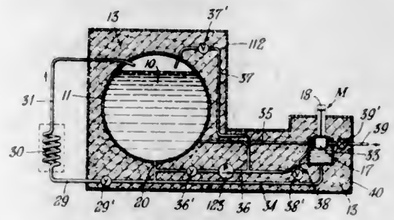
Thomas L. White, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Co., Youngstown, Ohio, a corporation of Ohio
Application March 3, 1947, Serial No. 731,955
7 Claims. (Cl. 61—45)



6. Lining structure for a generally horizontal, circular tunnel, comprising a substantially cylindrical metal skin extending generally horizontally within a tunnel bore, a series of spaced metal rings extending circumferentially against the inner surface of the skin, a series of axially extending flanged bars secured to the inner surface of the skin and to the rings, some of said bars being disposed in pairs at about the level and on opposite sides of the cylindrical axis of the adjacent portion of the skin, and a series of cross braces connecting said pairs of bars, each cross brace having two body portions, which portions are connected by lengthwise-extending screw means for adjustment of the length of the cross brace while retaining rigidity of the cross brace against transverse bending, which portions each terminate in an integral fixed jaw overlying a flanged portion of one of the pair of bars connected by the cross brace, and which portions each mount a releasably locked jaw gripping the opposite side of the bar engaged by the integral jaw, whereby the cross braces are readily and firmly attachable, are adjustable to correct distortion of the skin, and provide a firm and safe foundation for temporary flooring in the tunnel.

2,610,471
PROCESS OF AND APPARATUS FOR METERING A LIQUEFIED GAS

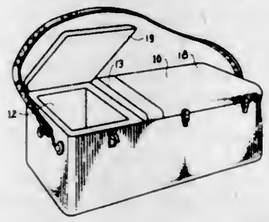
Russell M. Thayer, Buffalo, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application August 28, 1947, Serial No. 771,039
10 Claims. (Cl. 62—1)



1. A process of measuring accurately a quantity of liquefied gas of the type having a boiling point at atmospheric pressure below 233° K. when transferred from a supply source at low temperature to a receiver through the metering elements of a volumetric liquid meter adapted to register the amount of a liquefied gas passed therethrough, which process comprises providing continuous heat exchange between a body of said liquefied gas and the metering elements of said meter to maintain said metering elements substantially at the temperature of the liquefied gas to be transferred, such continuous heat exchange being established prior to the initiation of any flow through the metering elements; and passing said quantity of liquefied gas from said source through the cold metering elements to said receiver while maintaining the pressure on said quantity of liquefied gas during such passage at a value at least slightly higher than its vapor pressure at the temperature of the liquid at the source, whereby the actual quantity of said liquid transferred is measured as liquid.

2,610,472
PORTABLE REFRIGERATING APPARATUS

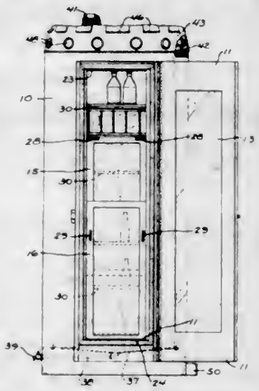
John Bertel Maxwell, Vancouver, British Columbia, Canada, assignor to Maxwell Refrigeration Limited, Vancouver, British Columbia, Canada
Application October 1, 1948, Serial No. 52,239
In Canada June 13, 1946
2 Claims. (Cl. 62—2)



2. Refrigerating apparatus comprising a storage compartment, a chest for receiving solid carbon dioxide or similar refrigerant, a coil in the compartment communicating at its inner end with the chest and at its outer end with the atmosphere outside the compartment, a pressure control valve in the coil adjacent its inner end, said valve opening when the pressure in the chest reaches approximately 14 to 18 pounds and closing when it drops below said point, and a blow-down valve in the coil adjacent its outer end, said blow-down valve being adapted to open when the pressure in the coil reaches approximately from 8 to 10 pounds and to close again after the pressure has dropped to approximately 4 or 5 pounds.

2,610,473
REFRIGERATOR DISPLAY CABINET

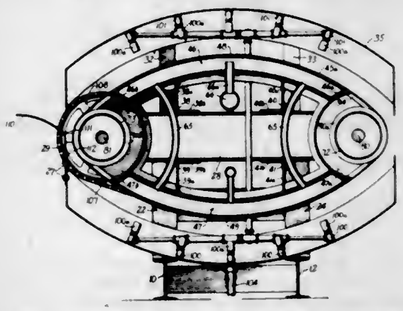
Paul Chovanec, Detroit, Mich.
Application November 8, 1949, Serial No. 126,100
7 Claims. (Cl. 62—89.5)



7. A refrigerator cabinet comprising cylindrical walls forming a heat-insulated compartment, the height of the cylinder formed by said walls being approximately twice the diameter thereof, a door opening in said walls extending over substantially the entire height of said compartment, a transparent swinging door closing said opening, a compressor unit mounted on the top of said cabinet, a convex dome-shaped cover for said unit having its lower edge merging with the outer surface of said cylindrical cabinet and its upper edges near the center thereof extending upwardly to form an extension adapted to receive a section resembling a bottle neck, a plurality of openings near said lower edge to admit cooling air, and a plurality of openings near said extension to exhaust the heated air, said exhaust openings being provided in the nearly horizontally extending portion of said cover.

2,610,474
ART OF CONGELATION AND APPARATUS FOR USE IN CONNECTION THEREWITH

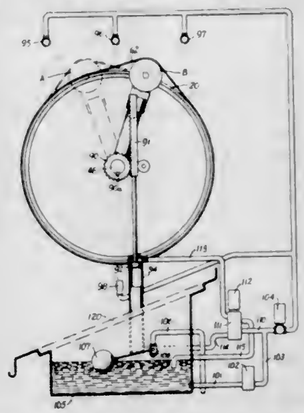
Crosby Field, Brooklyn, N. Y., assignor to Flakice Corporation, Brooklyn, N. Y., a corporation of Delaware
Application August 15, 1940, Serial No. 352,707
18 Claims. (Cl. 62—106)



1. In refrigerating apparatus, in combination, an evaporator having a stationary refrigerated surface, said surface embodying a cylindrical convex curve and corresponding to a surface defined by a straight line moving always parallel to a fixed axis, a flexible belt, means holding said belt in heat transferring relationship with said curved surface and causing said belt to conform to the curvature of said curved surface, means for supplying to said belt while so cooled material to be refrigerated, and means for moving said belt along said curved surface, the path of movement of said belt also following and conforming to said surface defined by a moving straight line, and means for flexing said belt to remove material congealed thereon.

2,610,475
ART OF CONGELATION AND APPARATUS FOR USE IN CONNECTION THEREWITH

Crosby Field, Brooklyn, N. Y., assignor to Flakice Corporation, Brooklyn, N. Y., a corporation of Delaware
Application August 15, 1940, Serial No. 352,708
17 Claims. (Cl. 62—106)



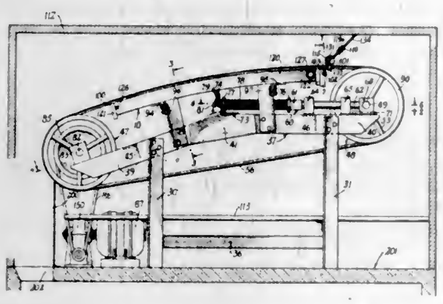
1. In congealing apparatus of the class described, an evaporator having an external convexly curved refrigerated surface, a flexible metal belt extending along said refrigerated surface, means for continuously holding a portion of said belt under tension in heat transferring relationship against said convexly curved refrigerated surface and deflector means for maintaining another portion of said belt under tension and flexed to a diameter smaller than said convexly curved refrigerated surface, means for supplying material to be congealed to the portion of said belt maintained in said heat transferring relationship, and oscillating means for progressively relatively shifting the deflector means with respect to said belt to progressively flex said belt to remove therefrom material congealed thereon, said oscillating means including a drive member and a driven member, said drive member alternately acting upon said driven member first in one direction and then in another direction.

2,610,476
ART OF CONGELATION AND APPARATUS FOR USE IN CONNECTION THEREWITH

Crosby Field, Brooklyn, N. Y., assignor to Flakice Corporation, Brooklyn, N. Y., a corporation of Delaware
Application August 15, 1940, Serial No. 352,709
28 Claims. (Cl. 62—106)

1. In congealing apparatus of the class described, in combination, a stationary refrigerated

member having a refrigerated surface having leading and following end portions and convexly curved along its length, an endless flexible belt encompassing said refrigerated surface, means for causing said belt to travel about said refrigerated member and slide along said refrigerated surface, resilient movable means for maintaining said belt under tension in contacting heat transferring relationship with respect to said refrig-



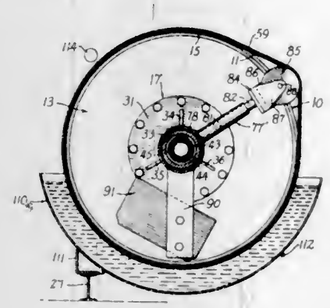
erated surface, means for maintaining the successive portions of the belt approaching and reaching the leading edge portion of said refrigerated surface in the plane tangent to said edge portion, means for supplying to said belt material to be congealed thereon, and means for progressively deflecting said belt as it leaves said refrigerated surface to remove therefrom the material congealed thereon.

2,610,477

ART OF CONGELATION AND APPARATUS FOR USE IN CONNECTION THEREWITH

Crosby Field and Egbert Cornell Stover, Brooklyn, N. Y., assignors to Flakice Corporation, Brooklyn, N. Y., a corporation of Delaware

Application August 15, 1940, Serial No. 352,710
10 Claims. (Cl. 62—106)



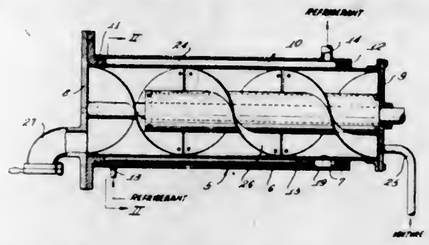
1. In refrigerating apparatus, in combination, a cylindrical evaporator, a flexible endless belt encompassing the cylindrical surface of said evaporator, said evaporator and said belt being rotatably mounted, deflector means positioned between said belt and said evaporator, counterweight means operatively associated with said deflector means to hold said deflector means in substantially a stationary position with respect to said belt and said evaporator, and means for rotating said evaporator.

2,610,478

ICE-CREAM FREEZER WITH REFRIGERANT CONTROL

Jack W. Lofstedt, Los Angeles, Calif., assignor to Metromatic Products Company, Los Angeles, Calif., a copartnership

Application September 12, 1949, Serial No. 115,143
1 Claim. (Cl. 62—114)



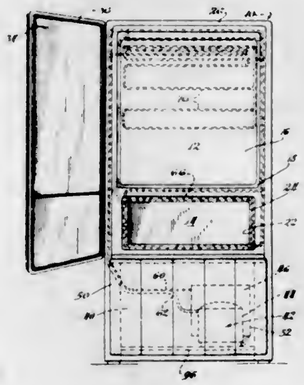
In an ice cream freezer, a cylindrical casing having its longitudinal axis generally horizontally disposed, said casing having an interior portion comprising an ice cream freezing chamber, the cylindrical wall of said casing defining a pair of refrigerant circulation passages leading from the bottom portion of the cylinder wall to the top thereof at opposite sides of the cylinder, the wall of said cylinder having a bottom refrigerant inlet and the top thereof having an outlet, both communicating with said passages, said passages having a common inlet portion at the extreme bottom of the wall of said cylinder, each of said passages extending upwardly from said common inlet portion and about opposite sides of the wall of said cylinder, and each of said passages, after leaving said common inlet portion, having an increasingly greater flow capacity from the bottom to the top of said cylinder wall.

2,610,479

TWO-TEMPERATURE REFRIGERATOR

George K. Iwashita, Nutley, N. J., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware

Original application July 14, 1943, Serial No. 494,629, now Patent No. 2,511,851, dated June 20, 1950. Divided and this application June 16, 1950, Serial No. 168,595
6 Claims. (Cl. 62—117.3)



6. In a refrigerator having means forming a first compartment and means forming a second compartment, a primary refrigerant circulating system including an evaporator, a pair of secondary refrigerant circulating systems, one of

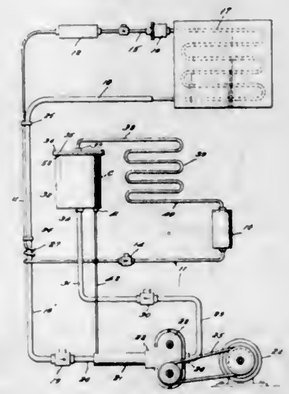
said systems being adapted to cool said first compartment and the second of said systems being adapted to cool said second compartment, each of said systems having a condenser portion, thermally conductive means for effecting heat transfer between said primary evaporator and one of said secondary condensers, and the other thermally conductive means for effecting heat transfer between said primary evaporator and the other of said secondary condensers, said last named means having a smaller heat transfer capacity so that one of the compartments is cooled to a lower temperature than the other compartment.

2,610,480

MECHANICAL REFRIGERATING APPARATUS

Robert G. Briscoe, Sulphur, Okla.

Application October 12, 1949, Serial No. 120,987
2 Claims. (Cl. 62—117.7)



1. In a mechanical refrigerating apparatus, a refrigerating agent supply tank, a power driven pump, a mixer directly connected to the inlet port of the pump, a circuit leading from the lower end of the tank for supplying the refrigerating agent at low pressure to the mixer, a separator containing a supply of a suitable carrier for the refrigerating agent, a pipe line leading from the lower end of the separator for supplying the carrier to the mixer, a second pipe line leading from the outlet port of the pump for discharging the resultant refrigerating emulsion to the separator, and still another pipe line leading from the top end of the separator for returning the refrigerating agent to the top of the tank as it is separated out from the carrier.

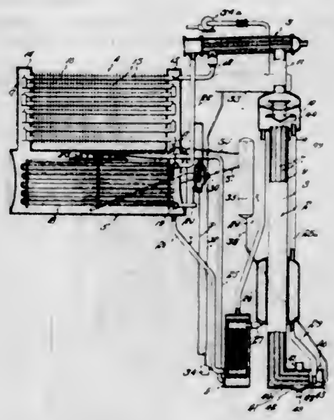
2,610,481

HEAT TRANSFER DEVICE

Eugene P. Whitlow, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application July 14, 1948, Serial No. 38,652
3 Claims. (Cl. 62—119)

1. A generator of an absorption refrigeration system having a plurality of tubes for lifting liquid by vapor lift action, a heating chamber surrounding the tubes, a conduit for supplying steam to the heating chamber, the lower ends of said tubes extending laterally above the bottom of the heating chamber, and a conduit connected to the bottom of the heating chamber for draining condensate at a level below the laterally extending portion of the lowermost tube whereby



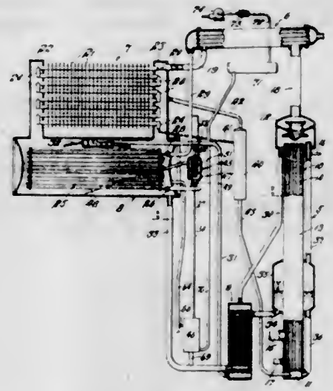
to prevent accumulation of condensate around the tubes.

2,610,482

APPARATUS FOR CONTROLLING THE CONCENTRATION OF NONCONDENSABLE GASES IN AN ABSORPTION REFRIGERATION SYSTEM

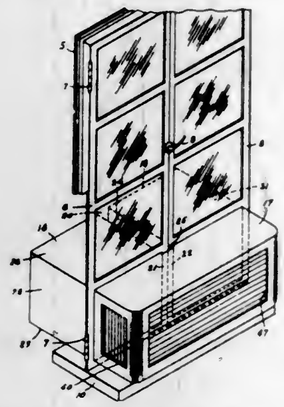
Norton E. Berry, Newburgh, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application April 28, 1949, Serial No. 90,256
13 Claims. (Cl. 62—119)



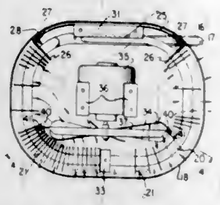
1. In a vacuum type absorption refrigeration system having a high pressure side and a low pressure side, apparatus for controlling the concentration of non-condensable gas in the system comprising a vessel for receiving non-condensable gas, a purge device for withdrawing non-condensable gas from the low pressure side and delivering it to the vessel to prevent the accumulation of excessive amounts of gas in the system, and conduit means connecting the receiving vessel and low pressure side of the system and constructed to deliver gas from the receiving vessel back to the low pressure side of the system at a slow rate to insure the presence of a minimum amount of gas in the system.

2,610,483
CASEMENT WINDOW MOUNTED AIR CONDITIONER
Thomas J. Deering, Cincinnati, Ohio, assignor of forty per cent to Clifford P. Huesgen and ten per cent to Gertrude E. Huesgen, Grosse Pointe Farms, Mich., and ten per cent to Edna L. Deering, Cincinnati, Ohio
Application July 17, 1950, Serial No. 174,321
12 Claims. (Cl. 62—129)



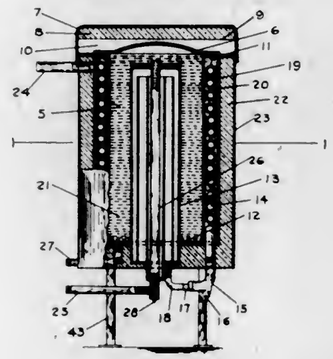
1. An air conditioning device for application to a casement window having a pair of unglazed lights separated by an upright mullion, said device comprising a housing having a pair of spaced exterior housing sections, each adapted to extend through one of said unglazed window lights in straddling relation to the mullion of the window, means within the housing to cool and circulate a body of air at one face of the window, and compressor and condenser means mounted within the exterior housing sections, including means to dissipate heat beyond the other face of the window.

2,610,484
COMPACT REFRIGERATION UNIT FOR COOLING AIR
Henry J. Lange, Hammond, Ind., assignor to Betz Corporation, Hammond, Ind., a corporation of Indiana
Application January 13, 1950, Serial No. 138,434
4 Claims. (Cl. 62—140)



1. A refrigeration unit comprising a coil for cooling fluid, said coil including a plurality of horizontal U-shaped coil portions positioned one above the other to form a vertically extending pervious channel, housing members secured to said channel including top, bottom and back plates, said top plate including means for securing the unit to supporting means, said bottom plate forming a container for receiving moisture which enters the unit, air circulating means within said channel including a fan and motor means for driving said fan, and baffle means about said fan dividing said channel into an air intake portion including parts of said U-shaped coil portions intermediate the ends thereof and an air discharge portion including the end parts of said U-shaped coil portions, with the parts of the coil portions in said air intake and air discharge portions having substantially equal areas, said fan drawing air through said air intake portion and discharging the same through said air discharge portion so that all the air is passed over two parts of said coil portions and cooled thereby two times.

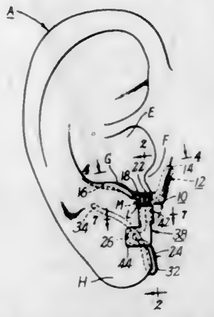
2,610,485
LIQUID COOLER
John L. Barr, Baltimore, Md.
Application July 28, 1950, Serial No. 176,482
3 Claims. (Cl. 62—141)



1. A heat exchanger for cooling liquids comprising an outer casing, a cylinder within said casing and spaced therefrom, with insulating means between said cylinder and casing, a centrally perforated bottom plate for said casing, also a top plate with a central hole, a shell within said cylinder and spaced therefrom, a pipe coil in space between the cylinder and shell, voids between the cylinder shell and pipe coil to be filled with a eutectic fluid, a second shell inwardly spaced with a cover; this space to receive a liquid to be cooled, a third shell inwardly spaced with open top end for coolant, a fourth shell inwardly spaced with open top to receive coolant gas, a fifth shell open at top and bottom, space between fourth and fifth shells for coolant, center area of fifth shell for inlet of liquid to be cooled, an outlet for the cooled liquid located in bottom plate between first and second shells, one coolant liquid inlet enters the second shell near the bottom, another coolant liquid inlet enters the fourth shell near the bottom, a coolant pipe connection from bottom plate between third and fourth shells to the bottom of the pipe coil, a coolant gas outlet at top of pipe coil.

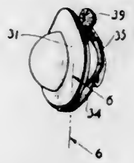
2,610,486
EARRING
Judith McCann, New York, N. Y.
Application February 20, 1948, Serial No. 9,819
10 Claims. (Cl. 63—14)

1. An earring comprising: a support formed of a single length of deformable material and having a saddle with forwardly and rearwardly extending wings adapted to seat on the inner surfaces of the pinna of a human ear, a body-portion-saddle-bridge extending outwardly at an angle from said saddle, a body portion formed at least in part by two parallel adjacent sections of said material and extending downwardly from said body-portion-saddle-bridge and adapted to traverse the outer face of the ear lobe substantially from the bottom of the outer U to the junction between the ear lobe and the head and having a rearwardly extending adjusting loop portion, a body-portion-retainer-bridge curving generally backwardly from said body portion and adapted to fit loosely around and under the lobe



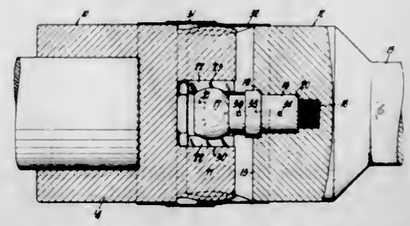
of the ear, and a retainer extending backwardly and upwardly from said body-portion-retainer-bridge and adapted to fit loosely behind the lobe to maintain said saddle in its seated position; a flap having a clamp portion crimped around said adjacent sections of material of said body portion thereby to reinforce the body portion and having an ornament securing extension formed integrally with and extending from said clamp portion adjacent, but free from, said body portion.

2,610,487
INTERCHANGEABLE OR REVERSIBLE EARRING
Samuel Friedman, Brooklyn, N. Y.
Application June 29, 1949, Serial No. 101,969
2 Claims. (Cl. 63—14)



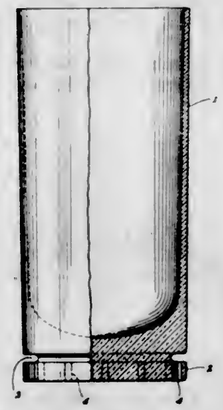
1. A reversible ear ring comprising a main body, said main body having an upwardly enlarged bottom opening therein, a two part adjustable spring clip having a substantially L-shaped attaching part and an upwardly extending retaining part engageable with the ear and adapted to cooperate with the main body to retain the ear ring upon the ear, said substantially L-shaped attaching part of the clip having one leg and adapted to enter the body bottom opening and the other leg extending laterally from said opening to one side of the body or to the other side of the body, said L-shaped attaching part having releasable retaining means cooperable with the wall of said opening to normally retain the adjustable spring clip against downward displacement from the body, said L-shaped attaching part in said opening being of polygonal section to retain the attaching part when in the opening against rotational displacement, whereby said spring clip can be reversed upon the main body to permit either one side of the body to lie on the outer side of the ear or the other side of the body to lie on the outer side of the ear.

2,610,488
UNIVERSAL COUPLING FOR ROLLING-MILL SPINDLES
Alfred Teplitz, Pittsburgh, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application March 14, 1951, Serial No. 215,507
3 Claims. (Cl. 64—8)



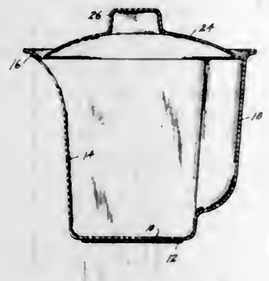
1. In a universal coupling including a jaw half having a transverse bore therethrough, one side of which is open to the end of said half, a spade half extending into said bore through said open side and spaced slipper bearings oscillatable in said bore one on each side of the spade half, the combination therewith of a ball member mounted coaxially on the jaw half with its center on the axis of said bore, and a sleeve having a spherical interior surface embracing said ball member, said spade half having its outer end recessed to receive said sleeve, said sleeve being cylindrical on the exterior, at least for the most part.

2,610,489
DRINKING VESSEL
Niels E. Clemensen, New York, N. Y.
Application September 20, 1948, Serial No. 50,070
1 Claim. (Cl. 65—13)



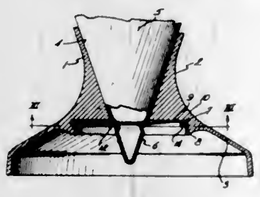
A drinking vessel having a body with a horizontal flange at the lower end, and a horizontal peripheral groove of small height above the flange, the diameter of the flange being substantially equal to the diameter of the body at the upper side of the groove, the flange having small openings at separated points extending through it from the lower side of said groove to the lower face of the flange to retain drops of moisture therein and prevent wetting of the bottom of the vessel and of a surface supporting same.

2,610,490
PITCHER OR THE LIKE CONTAINER
Earl S. Tupper, Upton, Mass.
Application December 5, 1946, Serial No. 714,238
2 Claims. (Cl. 65—31)



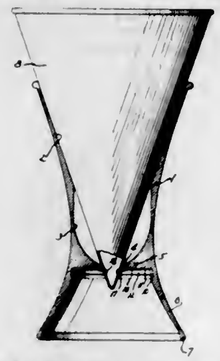
1. A one piece flexible pitcher of distortable material having an open top and a closed bottom, a relatively high and substantially cylindrically-shaped side wall forming the body of the pitcher, a spout and a straight substantially tubularly formed handle having an open top and a closed bottom, the said spout and handle being diametrically opposite each other at the upper edge of the said side wall, the said handle projecting from the side wall and extending from a point above the bottom up to the top of the side wall and being parallel with said side wall, the outer surface of the handle being continuous from the sides with the said side wall of the body, the upper edge of the side wall, spout and handle being continuous and in the same horizontal plane, the said handle, side wall and spout being resilient whereby upon application of pressure to the handle, a non-slip grip is obtained without an appreciable distortion of the said spout.

2,610,491
HOLDER FOR PAPER CUPS
Herman Carew, Easton, Pa., assignor to Dixie Cup Company, Easton, Pa., a corporation of Delaware
Application September 28, 1948, Serial No. 51,520
3 Claims. (Cl. 65—61)



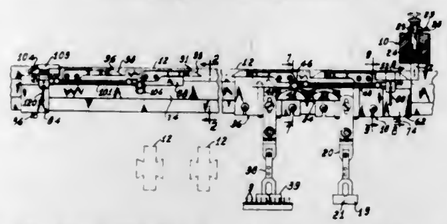
3. A holder for a conical paper cup, including a tubular body part having a cup receiving socket therein with an opening in the bottom through which the apical portion of a cup extends when the cup is seated in the holder, a laterally extending annular face in said holder below said opening, a relatively thin metallic disc-like member having a flat annular margin disposed against said face, and a plurality of downwardly sloping resilient teeth extending inwardly from said margin for edgewise biting engagement with the apical wall portion of a cup, and a centrally open metallic element mounted in said holder below said member to hold the same in place.

2,610,492
HOLDER FOR PAPER CUPS
Herman Carew, Easton, Pa., assignor to Dixie Cup Company, Chicago, Ill., a corporation of Delaware
Application August 26, 1947, Serial No. 770,674
7 Claims. (Cl. 65—61)



1. A holder for a paper cup, including a body portion defining a cavity to receive therein a paper cup bottom first, and a disc-like member of thin metal in said holder having several radial slots therein connecting with a central opening to define an annular series of resilient fingers for biting engagement with the wall of the cup, said member being relatively thin, and said fingers having at least their inner end portions turned obliquely downwardly.

2,610,493
YARN FEED MECHANISM FOR KNITTING MACHINES
Michael Zimic, Lake Success, and Anton Miskovsky, Deer Park, N. Y.; said Miskovsky assignor to said Zimic
Application March 26, 1951, Serial No. 217,525
8 Claims. (Cl. 66—127)

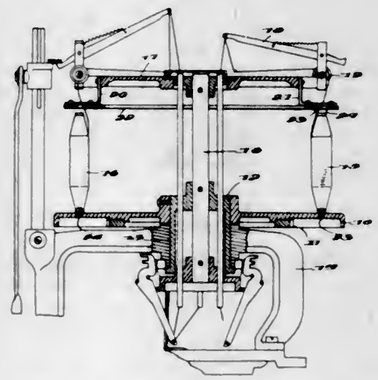


1. A yarn feeding mecnanism for a knitting machine comprising a block member having a recess therein to be received on the trackway of a knitting machine, an arm having a yarn feeder on said block, a second block having a recess to be received on the trackway of a knitting machine, an arm having a yarn feeder on said second block, cam means on each of said blocks, and means comprising a friction shoe and a spring on both said first named block and said second named block for frictionally positioning said blocks on a trackway of a knitting machine.

2,610,494
THREAD GUIDE
Earnest H. Scott, Burlington, N. C.
Application March 12, 1951, Serial No. 215,090
2 Claims. (Cl. 66—135)

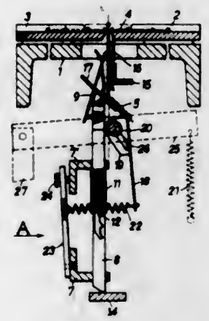
1. In a circular knitting machine, a rotatable yarn bobbin stand, a plurality of substantially

cylindrical yarn bobbins mounted vertically and in spaced relation on said stand in substantially circular formation, a yarn take-up bracket positioned above said stand, a thread guide ring, means for mounting said ring on said bracket so as to position the same beneath said bracket and in close proximity to the upper portions of said bobbins, said ring having a plurality of cir-



cular openings therein, said openings being of a size to permit at least a portion of the bobbin to be inserted therein when it is desired to remove the bobbin from the machine, each opening being in substantially vertical alignment with each of said bobbins, so that the yarn being drawn from each bobbin will pass through its respective opening in said ring to said take-up bracket.

2,610,495
FABRIC TAKE-UP DEVICE ON STRAIGHT-BAR KNITTING MACHINES
Hans Diem, Neuchatel, Switzerland, assignor to Edouard Dubied & Cie. (Societe Anonyme) Neuchatel, Switzerland
Application September 13, 1949, Serial No. 115,545
In Switzerland October 9, 1948
7 Claims. (Cl. 66—152)



1. In a straight-bar knitting machine for the production of knitted material, a take-up device extending over the working length of said machine comprising take-up hooks, automatic means for periodically moving said hooks up and down, a retaining device, automatic means controlling said retaining device and operating the same in synchronism with said take-up hooks in order to retain the material during the upward or no-load stroke of said take-up hooks.

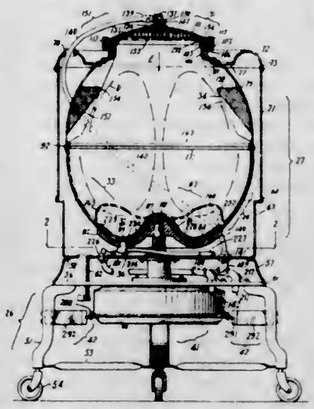
2,610,496
VENTILATING AND INSULATING UNDERSHIRT
Emanuel A. Kostopoulos, Drexel Hill, Pa.
Application December 27, 1949, Serial No. 135,212
4 Claims. (Cl. 66—176)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A ventilating undershirt comprising a plurality of horizontally spaced vertical cords of relatively large diameter formed of warp-knitted



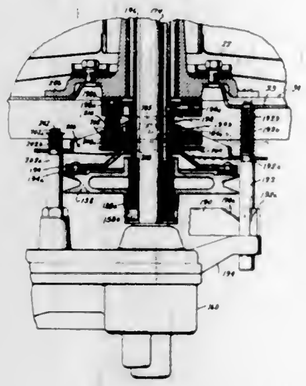
nylon, and vertically spaced filler threads of relatively small diameter connecting said cords.

2,610,497
WASHING MACHINE
George C. Graham, Ridgewood, N. J., assignor, by mesne assignments, to Graham & Allen, Ridgewood, N. J., a limited partnership
Original application November 30, 1939, Serial No. 306,797. Divided and this application March 2, 1946, Serial No. 651,498
13 Claims. (Cl. 68—21)



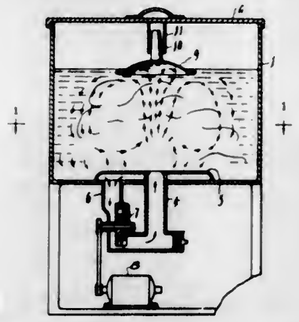
2. In a clothes washing machine, the combination of a stationary base having a conduit mounting, an oscillating tub mounted on said base and having a port, fluid operated means in the tub for receiving fluid from said port for pressing the clothes to extract water therefrom, and a conduit for transmitting fluid between the exterior of the tub and said pressing means having portions mounted relative to said base and relative to said tub in communication with said port, respectively, said conduit including portions wound about the axis of oscillation of the tub in a coil of such diameter as to render flexing of the conduit next to said port and said base substantially negligible.

2,610,498
LAUNDERING MACHINE
Peter Eduard Geldhof and Luther Ringer, St. Joseph, Mich., assignors to Whirlpool Corporation, a corporation of New York
Application November 20, 1947, Serial No. 787,060
2 Claims. (Cl. 68—23)



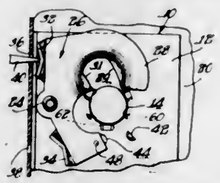
1. In a combination washing and extracting machine for clothes and the like comprising a tub, a basket mounted within said tub for rotatable movement therein about a vertical axis, an agitator within said basket, drive mechanism for oscillatably driving said agitator including a vertical shaft having said agitator mounted thereon and extending downwardly beneath said tub and basket, other drive mechanism for spinning said basket including a sleeve encircling said vertical shaft and extending downwardly beneath the top of said tub and basket, a pulley freely mounted on said sleeve, a motor and drive mechanism driven therefrom for rotatably driving said pulley, and a selectively operable drive connection from said pulley to said sleeve for spinning said basket with a predetermined torque limitation comprising a clutch member encircling said sleeve and mounted for axial movement therealong and held from rotation with respect thereto, a yoke encircling said clutch member, means connecting said yoke with said clutch member for disengaging said clutch member from said pulley, a ring secured to said sleeve and having a friction disk thereon in juxtaposition to and facing the bottom of said basket, a second ring spaced beneath said first ring engaging said clutch member and held against rotation with respect to said clutch member and having a friction disk on the bottom surface thereof, a plurality of annularly spaced compression springs interposed between said rings for yieldably engaging said clutch member with said pulley and transmitting driving torque therefrom limited by the force of said springs, said means connecting said yoke with said clutch member for disengaging said clutch member from said pulley comprising a brake ring secured to said yoke and encircling said clutch member and held from rotation with respect thereto and movable by said yoke into engagement with said friction disk on the bottom of said second ring to release said clutch member and to hold said sleeve from rotation, and also moving said first-mentioned friction disk on the top of said first ring into engagement with the bottom of said basket upon further upward movement of said disk.

2,610,499
JET CIRCULATION WASHING MACHINE
Thomas F. Russell, Fergus, Ontario, Canada
Application March 1, 1947, Serial No. 731,785
5 Claims. (Cl. 68—184)



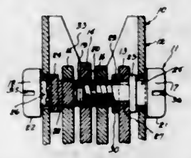
1. A machine for washing linen comprising an imperforate tub for holding linen and washing fluid, said tub having a bottom and walls, a filling opening for inserting linen, a drainage opening, a jet opening vertically into the tub at substantially the geometrical centre line and directed along the centre line to inject washing fluid into the tub, a deflector plate spaced from the jet with its centre located substantially on the centre line of the tub, guide means for floatably retaining the deflection plate in position above the jet, the interior of the tub being unobstructed to provide a clear passageway for fluid from the jet to the deflector plate, the diameter of the jet opening being not more than half the diameter of the tub and the space between the jet and the walls of the tub being also unobstructed whereby when the tub is filled with fluid between the jet and the deflector plate the fluid entering the tub through the jet will induce a circulating movement of the fluid along said centre line to the deflector plate and outwardly to the walls of the tub and backwardly and inwardly to the jet, carrying with it any linen which has been placed in the tub, and means for circulating the fluid from the drainage opening to the jet and injecting it into the tub through the jet under pressure.

2,610,500
LOCK RETAINER
Ouglјesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application July 8, 1948, Serial No. 37,611
12 Claims. (Cl. 70—370)



3. In a structure including spaced apart panels having at least one set of adjacent edges joined, one of said panels having an aperture therein to receive a lock structure, a fastener for securing said lock structure in said apertured panel comprising a base plate mounted on the inner side of said apertured panel, said base plate having an opening in registration with the aperture of the panel, a retainer plate pivotally mounted on said base plate so as to be shiftable in parallelism with the plane of said base plate, said retainer plate including a clamping head adapted to embrace the lock structure to hold the lock structure on the panel, a tool engaging portion mounted on said retainer plate on each side of the pivot point of said retainer plate, said tool engaging portions being positioned adjacent one of the panels to engage a tool inserted through an apertured portion of the panel whereby to move said retainer plate to the lock retaining position when one of said tool engaging portions is acted upon and to move said retainer plate to the disengaging position when the other of said tool engaging portions is acted upon.

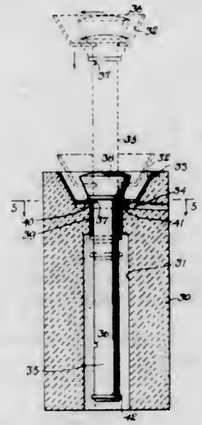
2,610,501
KEY HOLDER
Louis J. Maas, Detroit, Mich.
Application March 6, 1948, Serial No. 13,380
2 Claims. (Cl. 70—456)



2. A key holder for automatically selecting a selected key from one or more unselected keys comprising an elongated pivot structure having enlarged heads at its opposite ends and having a substantially smooth external pivot surface lying between said heads, said pivot structure including an internally threaded screw element, a key clamping member having a hole therethrough, and an externally threaded screw element threaded through the hole in said clamping member into said internally threaded screw element, said externally threaded screw element having a key abutment thereon and a shank portion adapted to pass through the hole in the selected key, and said internally threaded screw element having a portion adapted to clampingly urge said clamping member against said selected key and said selected key fixedly and immovably against said abutment, said internally threaded screw element having a shank portion adapted to pass loosely through the holes in the unselected keys.

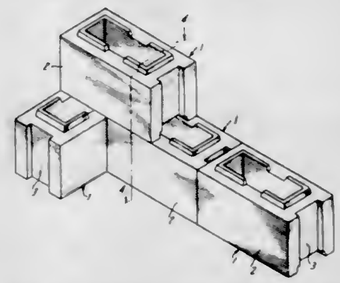
2,610,502
BOUNDARY MARKER
Axel S. Carlson, New York, N. Y.
Application October 20, 1945, Serial No. 623,539
4 Claims. (Cl. 72—7.3)

1. A boundary marker including a stone having a well therein and a recess at the top thereof having downwardly and inwardly sloping walls into which said well opens, a shaft disposed within said well, the dimensions of said shaft being such that there is a snug sliding fit between said shaft and the upper portion of said well, said shaft being adapted to be moved axially of said well, said shaft having laterally extending vertically spaced notches, and a disk-shaped latching element in engagement with and supported by said recess having an elongated opening therein, said latching element being movable away from said recess, said shaft being disposed within said opening, a portion of said latching element adjacent said opening being received by one of said notches when said latching element is fully seated in said recess, the dimensions of said opening in said latching element, said notches and said latching element being such



that said portion of said latching element can be moved out of said one of said notches when said latching element is moved away from said recess.

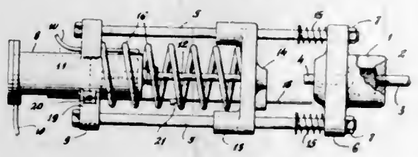
2,610,503
BUILDING BLOCK
Clarence C. Hall, Cleveland, Ohio
Application May 17, 1946, Serial No. 670,580
3 Claims. (Cl. 72—41)



1. A dense building block of aggregate and cementitious binder having spaced parallel upright elongated side walls and spaced parallel upright end walls at right angles to the side walls, flanges on the top of said side walls and on the top of at least one end wall, said flanges being inset from the plane of the outer upright faces of their associated walls, the flange on each side wall being in the form of two portions of which the adjacent ends are in spaced relation to each other near the longitudinal midportion of the block, the adjacent spaced ends being at opposite sides of the longitudinal midportion of the block, the bottoms of said one end wall and of the side walls having a continuous groove inset from the outer upright faces of the associated walls, said groove extending entirely to, and opening through, those ends of the side walls opposite to said one end wall and said groove, throughout its entire length, being open inwardly of the block, the outer face of the flange on each side wall and on said end wall being substantially parallel to, and aligned vertically of the block with, the upright wall of the groove in the bottom of its associated wall of the block, the other

end wall of the block terminating in spaced relation to the bottom of the block a distance at least equal to the height of the flanges, the outer face of the flange on said one end wall being spaced endwise of the block from the outer face of said one end wall a distance substantially equal to the thickness of one of the grooved side walls measured between the plane of the outer face thereof and the plane of the upright wall of its groove, the said adjacent ends of those portions of the flanges which extend from said one end wall toward the longitudinal midportion of the block being spaced endwise of the block from the outer face of said one end wall a distance substantially equal to the distance between the plane of the outer face of said one of said side walls and the plane of the upright wall of the groove of the opposite side wall, and being spaced from the said adjacent ends of said other portions of the flanges a distance at least equal to the sum of the thicknesses of said one end wall and said opposite side wall, each measured between the planes of its outer face and the upright wall of its groove, and the outer surface of each of the flanges on the side walls being spaced inwardly from the outer face of its associated side wall a distance substantially equal to the distance between the planes of the outer face of said one end wall and the upright wall of the groove of said one end wall.

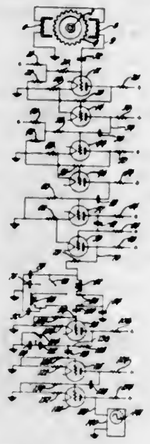
2,610,504
HYDRAULIC TESTER
George W. Nigh, Bayonne, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware
Application April 16, 1948, Serial No. 21,502
11 Claims. (Cl. 73—12)



1. In a hydraulic tube-testing apparatus in which an impact force is applied to a hydraulic system by a spring-loaded hammer, and containing means for moving the hammer away from the hydraulic system and compressing the spring, the improvement comprising releasing mechanism having a latch holding said hammer and said means in engagement during said movement away from the hydraulic system and latch-engaging means adapted to actuate said latch to release the hammer, said latch-engaging means being adjustable to fixed release positions.

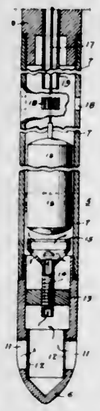
2,610,505
NONSEISMIC TORSIOGRAPH
Lawrence F. Hope, Grosse Pointe Farms, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 18, 1949, Serial No. 82,220
3 Claims. (Cl. 73—68)

1. A non-seismic torsiograph including; an electrical signal generating means capable of generating an electrical signal of frequency directly proportional to the angular speed of a rotating body the characteristics of which it is desired to determine, means for generating equal energy unidirectional pulses from said first mentioned signal whose pulse repetition frequency is proportional to said alternating current signal, means for electrically detecting said equal energy pulses to obtain a signal and means to integrate



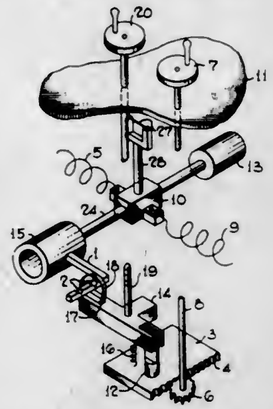
said last mentioned signal to produce a signal proportional in amplitude and equal in frequency to the torsional vibration being measured.

2,610,506
INSTRUMENT FOR LOCATING THE LIQUID LEVEL IN WELLS
David B. Taliaferro, Bartlesville, Clifford F. McClung, Tulsa, and Fritz G. Mueller, Bartlesville, Okla., assignors to the United States of America as represented by the Secretary of the Interior
Application January 7, 1949, Serial No. 69,762
3 Claims. (Cl. 73—151)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



3. An instrument for indicating the fluctuations of liquid levels within wells subjected to a fluctuating pressure which comprises a protective shell provided with an upper gas confining chamber, an upper plurality of pressure equalizing apertures which define the lower limit of said chamber, a lower plurality of apertures, a hollow float within said shell between said upper and lower apertures provided with a pressure equalizing venting tube in free communication with said chamber, a circuit closing sliding electrical contact mounted on and reciprocated by fluctuations of the level of said hollow float, a plurality of electrical contact sleeves surrounding said float tube and enclosing an upper portion of said chamber, a plurality of washers which insulate each sleeve from adjacent sleeves, an electric circuit which includes an electrical resistance, an electrical connection from each contact sleeve to a corresponding portion of said resistance, a lower float stop, and an upper tubular float stop which stops define the limits of travel of said venting tube within said upper gas confining chamber as well as the limits of travel of said float, a suitable current fluctuation indicating apparatus connected in said circuit and a source of electric current for said circuit.

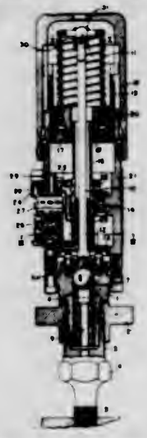
2,610,507
GRAVITY METER
Frank G. Boucher, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 13, 1947, Serial No. 734,500
4 Claims. (Cl. 73—382)



4. A gravity meter comprising a moving system responsive to gravity, including a pivotal axis, a rider arm attached to a selected portion of said moving system and provided with a plurality of notches spaced longitudinally from said pivotal axis, a slidable carriage arranged adjacent said moving system, a rider support arm pivotally attached to said carriage adjacent said rider arm, and provided with a groove adapted to receive a ring shaped rider and to support said rider in a vertical position, a ring shaped rider generally encircling said rider arm and receivable by said notches and by said groove, spring means normally urging said rider support arm upwardly away from said carriage, a casing enclosing the entire system, means operable from the exterior of said casing to move said carriage so as to position said rider support arm adjacent a selected notch on said rider arm, and means operable from the exterior of said casing to move said rider support arm downwardly in opposition to said spring means sufficiently to deposit said rider in a selected groove on said rider arm.

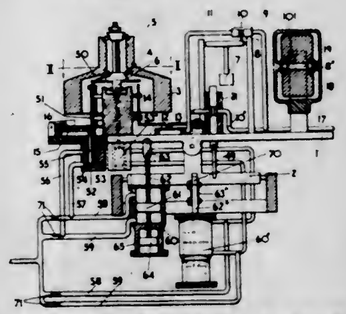
2,610,508
PRESSURE INDICATOR
Joseph A. Stein and John W. Wagner, Pittsburgh, Pa., assignors to Bacharach Industrial Instrument Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 12, 1946, Serial No. 702,944
14 Claims. (Cl. 73—389)

1. A pressure gage comprising a body having a pressure chamber and a passage adapted for connection to a pressure source, a piston in said chamber blocking said passage, said chamber having a lower and upper seat for limited movement of said piston, spring means for loading said piston with a force opposing the pressure at the pressure source, means for transmitting to said piston the force developed in said spring, pressure indicating means, means for varying the force exerted by said spring means, an actuator engaging said pressure indicating means with



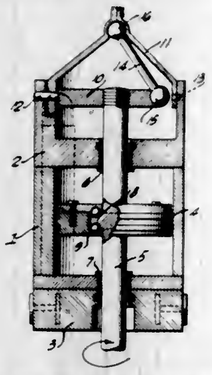
said spring force varying means for operating said indicating means upon adjustment of the spring force varying means, and means responsive to a predetermined movement of said piston by the pressure in said pressure chamber for immobilizing said pressure indicating means whereby the pressure indicating means will positively register the pressure exerted on the piston by the pressure source at the time the piston is moved by said pressure.

2,610,509
GYROSCOPE
Jeffery Walton Barnes, Farnborough, England
Application November 2, 1945, Serial No. 626,361
In Great Britain May 16, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires May 16, 1962
4 Claims. (Cl. 74—5.4)



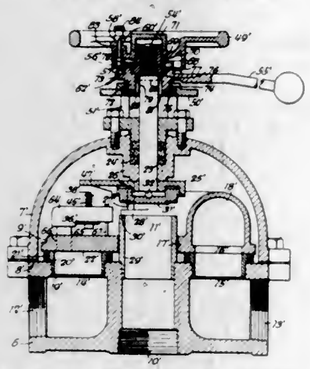
1. In gyroscopic apparatus, a gyroscope, a magnetised element comprising the gyroscope rotor spindle, erecting means for said gyroscope, the polar axis of said magnetized element lying at a large angle to the horizontal when the gyroscope is erected, whereby apparent wander due to the earth's rotation is substantially reduced by the torque exerted via said magnetic element on the gyroscope by the earth's magnetic field.

2,610,510
MOTION CONVERTER
Ollen L. Dunlap, Long Beach, Calif.
Application January 7, 1950, Serial No. 137,415
5 Claims. (Cl. 74—22)



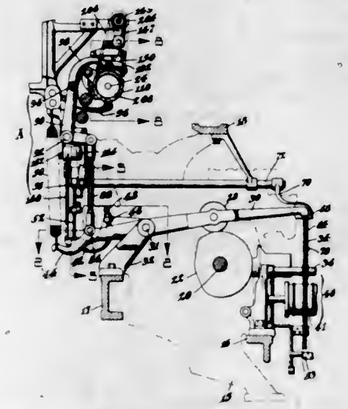
1. A motion converter comprising a cylinder, a shaft extending axially through the cylinder, means journalling the shaft in the cylinder, means to continuously rotate said shaft, a plate on the outer end of the shaft, a stirrup, means pivotally mounting the stirrup on one end of said cylinder, a link journalled in said stirrup and said plate, said link being eccentrically positioned relative to the center line of said shaft, and hydraulically actuated means engaging said stirrup to tilt the same relative to the center line of said shaft.

2,610,511
VALVE ACTUATOR
Harry Mansen, Barrington, Ill., assignor to Elgin Softener Corporation, Elgin, Ill., a corporation of Illinois
Application June 27, 1945, Serial No. 601,784
14 Claims. (Cl. 74—22)



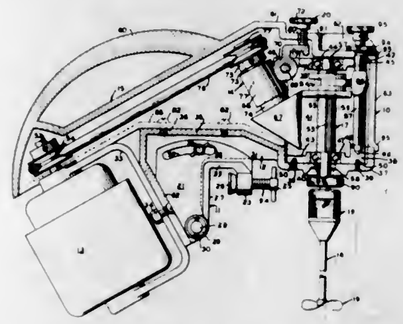
1. In a valve operating mechanism the combination with a stem adapted to be reciprocated and rotated, a lever element having a slidable operating connection with said stem permitting endwise movement of said stem relative thereto, a nut element swivelled but held against axial movement relative to said lever element and threadedly connected with said stem to transmit reciprocatory movement thereto, and means for detachably connecting said lever and nut elements, comprising a pawl on one of said elements engaging a ratchet on the other of said elements permitting turning of the nut in one direction only relative to said lever to move the stem endwise in one direction.

2,610,512
YARN CARRIER ROD CONTROL MECHANISM FOR KNITTING MACHINES
Henry C. Pingel, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application April 25, 1951, Serial No. 222,831
14 Claims. (Cl. 74—112)



1. In a full-fashioned knitting machine, the combination of a racking means for a spindle comprising a pair of oppositely directed ratchet wheels and pawls therefor, a cam means and connections for transmitting impulses from said cam means to said pawls including two trains of mechanism, one connected to each pawl and a discriminating means for determining to which pawl an impulse from said cam means shall be delivered and having two bluffs both out of contact with any pawl when inactive and one bluff operated by one of said trains to prevent one pawl from operating while the one train operates the other pawl to rack its ratchet and the other bluff operated by the other train to prevent the other pawl from operating while the other train operates said one pawl to rack its ratchet, and means positively connecting said trains to the bluffs to draw them out of contact with the pawls after racking operations.

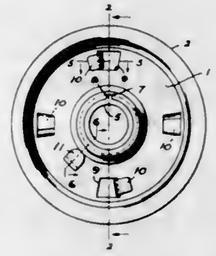
2,610,513
MIXING ATTACHMENT
Abram I. Podell, New York, N. Y.
Application July 22, 1947, Serial No. 762,625
3 Claims. (Cl. 74—191)



1. A mixer comprising: a first frame; a second frame; said first and second frames being pivotally interconnected; a main shaft journaled

in the second frame and having an impeller at one terminus thereof; a collar; said collar being reciprocably slideable along said shaft, and being keyed to said shaft; a collar engaging member; a screw threadedly engaged by said collar engaging member; said collar engaging member being reciprocably movable, along said screw by rotation of said screw; a cone rotatably mounted on the first frame and engaging said collar; and declutching means; said declutching means acting to separate the cone from the collar; the axis of said cone and main shaft having a non-parallel relationship with respect to each other; said declutching means maintaining said cone and said collar in engagement by first resilient means, and having a second positive means for separating said cone and said collar against said first mentioned resilient means.

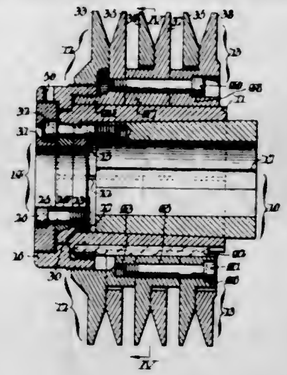
2,610,514
SHEAVE
Ballard Emerson Long, Jr., Knoxville, Tenn.
Application July 22, 1948, Serial No. 40,065
4 Claims. (Cl. 74—230.8)



1. A sheave comprising a plurality of body sections arranged in side-by-side relation and having central openings therein, said sections having portions thereof in abutting relation and having other portions surrounding said openings laterally flared from each other, a bushing within said central openings and having a body section in abutting relation with the portions of the body sections surrounding the openings holding said portions spaced apart, means forming a keyed connection between one of the body sections and the bushing, said body sections having outer portions coacting to form a belt receiving peripheral groove in the sheave, means forming a quick detachable connection between the body sections upon relative rotation thereof, and separate means for locking said body sections against rotation relative to each other.

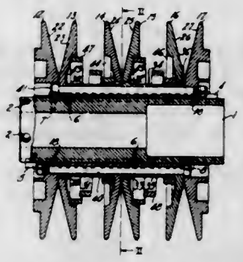
2,610,515
ADJUSTABLE DIAMETER SHEAVE
William A. Williams, Philadelphia, Pa., assignor to The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 24, 1949, Serial No. 78,116
18 Claims. (Cl. 74—230.17)

3. In an adjustable diameter sheave, an interiorly tapered split hub, an exteriorly tapered bushing slidably mounted within said interiorly tapered split hub, a tapered ring mounted in one end of said hub, an abutment means for preventing said tapered ring from being disengaged from said hub, a draw bolt rotatably mounted in said ring and restrained against axial movement relative to said ring, said draw bolt being in threaded engagement with said tapered bushing, and a pair of complementary flanges



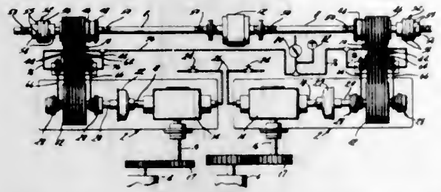
mounted on said hub with capacity for axial movement relative to said hub and to each other.

2,610,516
SPRING LOADED VARIABLE DIAMETER SHEAVE AND DRIVE
Eugene J. Otto, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 14, 1949, Serial No. 93,229
16 Claims. (Cl. 74—230.17)



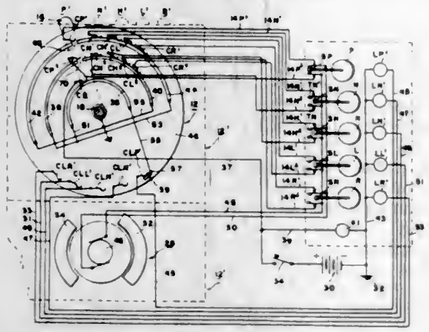
1. In a variable pitch diameter pulley of the type described, a rotary power transmission member having a generally cylindrical external surface; a pair of frusto-conical faced, annular flange elements mounted on said member in slidably contacting relation with respect to said cylindrical external surface so as to be axially movable with respect to said member and each other, said elements being mounted in oppositely facing relation; a plurality of rigid tie means positively connected with and extending axially from each said annular flange element, parallel with the axis of said member and circumferentially spaced thereabout, the said rigid tie means of each said flange element passing between those of the other said element and through and beyond said other element in axially movable relation thereto; and spring means in the annular space to the rear of at least one said flange element and surrounding said tie means of the other said element of said pair, said spring means being operatively connected at one end with said one of said flange elements and at its other end with said tie means extending therethrough to resiliently urge said flange elements in opposite directions axially relative to each other.

2,610,517
BELT DRIVE FOR PAPERMAKING MACHINES
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application March 11, 1946, Serial No. 653,643
8 Claims. (Cl. 74—242.11)



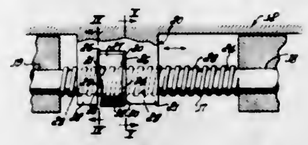
1. In a belt drive including a rotating primary pulley and an endless looped belt engageable in driving relation therewith and adaptable to engage a drive pulley, the improvements of a pulley support pivotally movable about the rotational axis of said primary pulley, a secondary pulley rotatably mounted on said pulley support within the loop of said belt and movable with said pulley support to engage the belt, a fluid operated actuator having two relatively movable parts, means for pivotally securing one of said parts in fixed relation to the axis of said primary pulley, means for removably securing the other of said parts to said pulley support, and means for energizing said actuator to urge said pulley support in a direction to tighten the belt by said secondary pulley, whereby removal of the other of said parts from said support accommodates the looping of said belt about said secondary pulley.

2,610,518
PUSH-BUTTON CONTROL FOR THE OPERATION OF AUTOMOBILES
William James Goedeke, deceased, late of Trenton, N. J., by Ann Goedeke, administratrix, Trenton, N. J., and William Lester Hartman, Miami, Fla.
Application June 6, 1951, Serial No. 230,238
11 Claims. (Cl. 74—365)



1. A push button remote control device for the operation of automobiles having automatic transmission which comprises a control button assembly including neutral, high range, low range and reverse connections corresponding to positions for automatic transmission, a separate switch connected to each of the push buttons of said assembly, a direct current reversing motor of low voltage, a control selector assembly having a selector disc member mounted on a selector shaft, a series of concentric metal arced segments mounted on said disc, two pairs of said arced segments having sections separated by insulated portions, a shifting lever arm connected to said selector shaft, a series of pairs of contactors mounted in fixed positions adjacent said disc member to simultaneously ride on juxtaposed sections of said arced segments and to simultaneously contact said insulated portions as the selector disc is rotated on said shaft, wires connecting each of said pairs of contactors with corresponding opposed terminals of each of said separate switches and means connecting said motor in circuit to operate said shifting lever and said disc while a pair of contactors are in contact with juxtaposed sections of opposed arced segments and to disconnect said motor to discontinue rotary movement of the disc member when the pair of contactors are in contact with said insulated portions.

2,610,519
BACKLASH TAKE-UP DEVICE
Michael P. Rokos, Oakview, Calif., assignor of one-half to Ted G. Rokos, Los Angeles, Calif.
Application September 8, 1951, Serial No. 245,745
7 Claims. (Cl. 74—441)

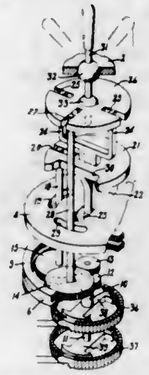


1. Means for automatically preventing end play between a feed screw and a feed nut comprising: a rotatable feed screw restrained from axial movement and provided with threads having a forward face and a rear face; a pair of spaced feed nuts, each provided with an internally threaded bore, said bores being in alignment and arranged to threadedly receive the rotatable feed screw, each of said feed nuts having an end wall in spaced, opposed and unchanging relation to the end wall of the other feed unit; a movable nut rotatably and threadedly carried by the feed screw between said feed nuts, the ends of said movable nut being normally spaced from the opposing end walls of the feed nuts whereby said movable nut may be rotated to move axially toward either of the feed nuts; means carried by the movable nut to frictionally grasp the feed screw; and cooperative elements carried by the ends of the movable nut and the opposing end wall of the adjacent feed nut for stopping axial movement of the movable nut toward such adjacent feed nut with the threads of the movable nut out of phase with the threads of said adjacent feed nut a distance of between about 0.03 and 0.09 of the pitch of such threads.

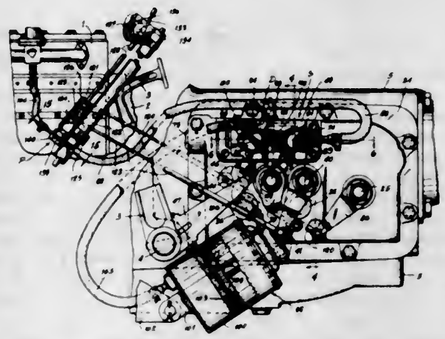
2,610,520
MOTION TRANSLATING DEVICE
Barton H. Snow, Cincinnati, Ohio, assignor to General Electric Company, a corporation of New York
Application September 6, 1951, Serial No. 245,283
9 Claims. (Cl. 74—471)

1. A motion translating device comprising a housing having spaced apart end walls, a pair of ring gears fixedly mounted in substantially parallel spaced relation in said housing, a pair of concentric shafts rotatably mounted on one of said end walls, a pair of spur gears separately mounted on said shafts in axial spaced relation within said housing, a pair of planetary gears

each mounted in intermeshing relation with one of said ring gears and one of said spur gears, an actuating member slidably mounted in said housing for universal planar movement, coupling means connecting said actuating member selectively to move one of said planetary gears in one direction and to move the other of said planetary gears in a direction perpendicular to said one direction, and a lever pivotally mounted on said housing for universal movement and connected to said actuating member.

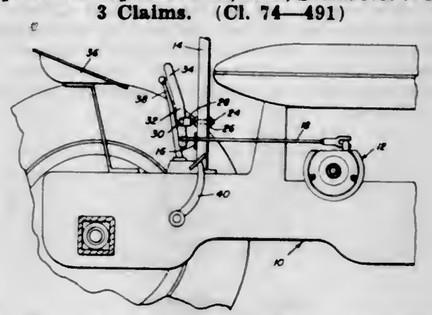


2,610,521
AUTOMOTIVE POWER TRANSMISSION CONTROL
Glenn T. Randol, St. Louis, Mo.
Application November 11, 1944, Serial No. 563,063
37 Claims. (Cl. 74—472)



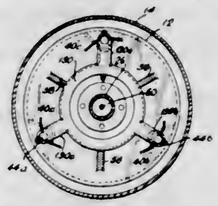
1. In a control mechanism for a change-speed multiple gear drive transmission provided with a member shiftable to two positions to establish only two of said gear drives, motor power means for shifting said member to its two gear drive establishing positions, a control means including an element having two motor operative positions for determining which gear ratio said power means will establish when operated, a member movable from one position to another for moving said control element and having an idle return movement, selecting means acted upon by the control element moving member for predetermining to which position the control element will be moved, means for operating said selecting means and means associated with said movable member and selecting means for locking said selecting means in its selecting position while said movable member is being moved from said one position to said other position and return.

2,610,522
BELT PULLEY CONTROLLER FOR TRACTORS
Ralph E. Kelly, Alvord, Iowa
Application September 15, 1947, Serial No. 774,072
3 Claims. (Cl. 74—491)



1. In combination with a tractor including a supporting post, a belt pulley unit mounted in front of the post and including a clutch mechanism, an operating rod having a forward end attached to the clutch mechanism for actuating the clutch mechanism and a guide mounted on the post and slidably receiving the rod; the improvement of which comprises a fulcrum removably secured to and projecting laterally from the post, and a lever pivoted to the fulcrum and connected to the rear end of the rod.

2,610,523
AUTOMATIC BALANCING SYSTEM FOR ROTATABLE ARTICLE HANDLING MACHINES
Leo M. Kahn, Brooklyn, N. Y.
Application December 16, 1950, Serial No. 201,152
16 Claims. (Cl. 74—573)

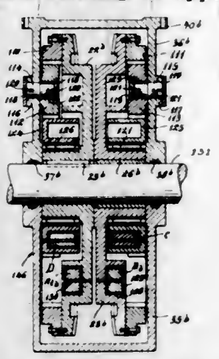


1. Balancing apparatus for a rotatable hollow cylinder for housing discrete articles to be treated, said apparatus comprising a plurality of hollow counterweight liquid material receiving elements arranged to receive counterbalance liquid from an external source thereof, said elements being angularly arranged around the periphery of said cylinder and differentially affecting the balance thereof when said liquid is selectively applied thereto, and a feed ring rotating concentrically with the cylinder, said feed ring being substantially channel shaped so as to have an endless inlet for liquid injected therein from said external source, and having an outlet therefrom to each of the counterweight receiving elements.

2,610,524
COUNTERBALANCING DEVICE
Frederick K. Maussnest, Queens Village, N. Y., now by change of name Frederick K. Maust
Application June 23, 1948, Serial No. 34,645
4 Claims. (Cl. 74—603)

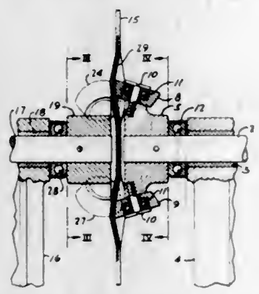
1. Balancing means for mechanisms having a driveshaft including eccentric or crank means as well as connecting rod means for reciprocating a slide comprising at least one pair of balancing

masses, means for rotating said masses in respective opposite directions around said driveshaft at the frequency of the first harmonic, the mass rotating in driveshaft direction being of such magnitude and having a radius of rotation as to produce centrifugal forces adapted to oppose and neutralize the rotational inertia forces and substantially one-half of the primary inertia forces, the mass rotating in opposite direction



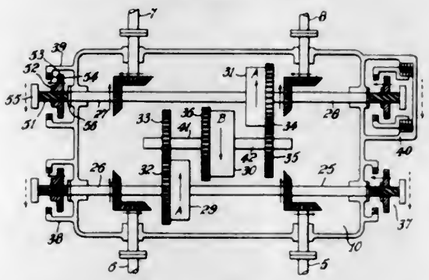
thereto being of such magnitude and having a radius of rotation as to oppose and neutralize the remaining one-half of the primary inertia forces, auxiliary balancing masses, gearing means associated with said auxiliary masses and operatively connected with said rotating means for imparting to said auxiliary masses a rotational speed around the driveshaft equal to the frequency of the second harmonic to oppose and neutralize the secondary inertia forces.

2,610,525
MOTION TRANSMITTING DEVICE
Edward A. Sprigg, Toledo, Ohio, assignor to H. H. Buggie & Company, Toledo, Ohio, a corporation of Ohio
Application May 19, 1945, Serial No. 594,754
19 Claims. (Cl. 74—640)



1. Sealed power transmitting mechanism comprising; a casing wall having an imperforate deformable portion, a driving member supported for rotation at one side of said wall, a driven member at the opposite side of said wall supported for rotation about an axis substantially in alignment with the axis of said driving member, a rolling element supported on one of said members for revolution about the axis thereof and for rotation about an axis extending generally parallel to the plane of said deformable wall portion and having rolling engagement with one side thereof, a rolling element supported on the other of said members for revolution about the axis thereof and for rotation about an axis extending generally parallel to the plane of said deformable wall portion and having rolling engagement with the other side of said deformable wall portion, the rolling elements on opposite sides of the wall being offset from each other angularly of the axis of said members and having juxtaposed paths of travel the spacing between which is less than the thickness of said deformable wall portion, to deform the same and provide for the transmission of rotative movement from one member to the other through the medium of said deformable wall portion.

2,610,526
TRANSMISSION GEARING
Louis Frederick Rudston Fell, Littleover, and Richard Joseph Walsh Cousins, Shoreham-by-Sea, England, assignors to Fell Developments Limited, London, England, a British company
Application April 25, 1949, Serial No. 89,424
In Great Britain May 4, 1948
13 Claims. (Cl. 74—675)

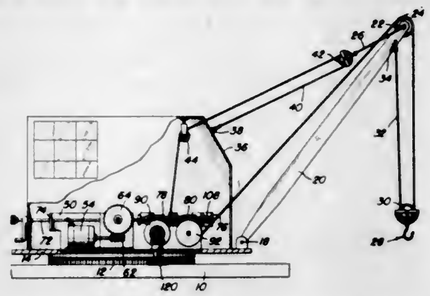


1. A power plant comprising two internal combustion engines, a bed supporting said engines and transmission gearing arranged between said engines and mechanism to be driven by said power plant, said transmission gearing comprising, in association with each of said engines, a fluid coupling and a unidirectional device including a normally rotatable member and a cooperating abutment member adapted to be engaged by said rotatable member upon a reverse rotation of said rotatable member, a differential gear comprising two sun wheels, a plurality of planet wheels engaging said sun wheels and a planet carrier supporting said planet wheels, transmission means including said fluid coupling to convey drive from each one of said engines to one of said sun wheels, further transmission means for transmitting drive from said planet carrying member to a mechanism to be driven by said power unit and means for releasing one of said abutment members for movement in relation to said bed, so that on release of said abutment member, rotation in a direction opposite to the previous engine driven direction, of said further transmission means, said planet carrying member and the sun wheel associated with said releasable abutment member may take place.

2,610,527
MECHANICAL TOY DRIVE
James Papay, East Chicago, Ind.
Application October 17, 1949, Serial No. 121,794
7 Claims. (Cl. 74—724)

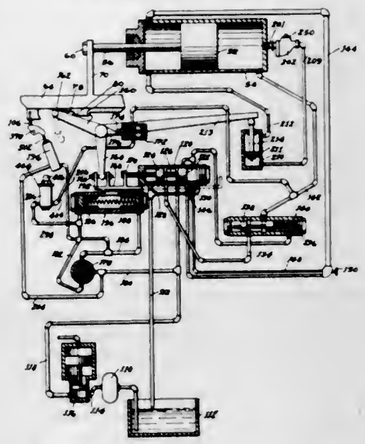
1. A drive mechanism for toys comprising a lay shaft having means journaling the same for rotary and sliding movement, means for rotating said lay shaft, a pair of driven shafts angularly disposed to said lay shaft, driven pinions secured to said driven shafts and driving worms freely rotatable on said lay shaft and meshing

with said pinions, clutch means responsive to opposite sliding movements of said lay shaft for al-



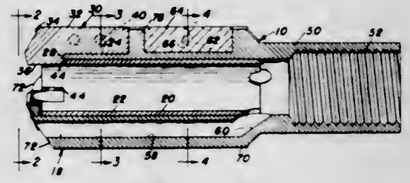
ternately operating said clutches and operatively connecting said worm to said lay shaft.

2,610,528
HYDRAULIC DRILL FEED AND STROKE TIMING MECHANISM
Fred W. Kriewall, Van Dyke, Mich., assignor to Leland-Gifford Company, Worcester, Mass., a corporation of Massachusetts
Continuation of application Serial No. 562,212, November 6, 1944. This application November 22, 1948, Serial No. 61,425
8 Claims. (Cl. 77—32.4)



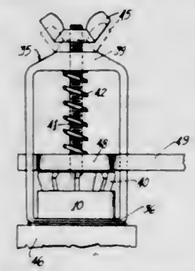
1. A machine of the class described, comprising: a movable tool holder movable toward and away from a work-piece; a cylinder; a piston slidably mounted in said cylinder and connected to said tool holder for, upon delivery of liquid under pressure to either side of said piston, moving said holder toward or away from a work-piece; a valve mechanism controlling delivery of liquid to either side of said piston; a rockable actuating member moving said valve mechanism from one position to another; a slide bar connected to and movable in unison with said piston; cam surfaces carried by said slide bar and cooperating with said actuating member to control the movement of said work tool toward and away from said work-piece and controlling the speed of movement at various positions of movement; a rockable bar connected to said actuating member and, upon rocking in one direction, moving said valve mechanism to position shortening the time for a reverse movement of said piston for moving the tool holder away from the work-piece; a second cylinder; a piston slidably mounted in said second cylinder; a conduit connecting one side of the second-named cylinder to the corresponding side of the first-named cylinder and a second conduit connecting the other sides of the respective cylinders, increased pressure on one side of the first named piston resulting from increased resistance of movement of the tool holder toward the work effecting an increase of fluid volume and hence acceleration of movement of said second-named piston in one direction; and a piston rod connected to said second named piston and extending outwardly from said second named cylinder and engaging said rockable bar and effecting a rocking of the same in said direction upon movement of said second named piston in said direction.

2,610,529
BORING HEAD
William H. Atkinson, Jackson, Miss., assignor of one-third to L. M. Conkwright, Oklahoma City, Okla.
Application July 5, 1950, Serial No. 172,080
5 Claims. (Cl. 77—68)



1. A boring head comprising an elongated body having a plurality of chip flutes therein and a rib between each of said flutes, said body having an axial guide bore therein and a bushing disposed in said bore and terminating adjacent the tip of said body, said bushing having circumferentially spaced notches in the end thereof adjacent the tip of said body, a cutter carried by each of said ribs and having a cutting tip extending from the outer surface of said ribs to the inner surface of said bushing to form an undrilled axial guide core in the member being drilled, said cutting tips extending into said notches and engaging said bushing to limit rotary and outward movement of said bushing relative to said body.

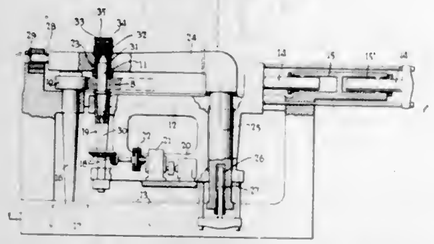
2,610,530
PIPE REAMING AND BURRING ATTACHMENT FOR PIPES
Thomas A. Caliendo, South Ozone Park, N. Y.
Application May 4, 1950, Serial No. 159,983
2 Claims. (Cl. 77—73)



1. A pipe reaming tool comprising a yoke including legs, a bridge and a threaded collar at opposite terminal ends of said legs, sleeve means

for fixing the tool to a pipe and into which said collar is adjustably threaded to move the bridge with respect to the end of a pipe held in said sleeve means, said bridge being drilled centrally to provide a smooth bore substantially concentric with said pipe, a spindle having a threaded end freely passing through said bore, a reamer mounted on the lower end of said spindle a spring between the reamer and said bridge, a nut on the threaded end of the spindle beyond the bridge for moving the reamer toward the bridge to place the spring under tension when the nut is adjusted against the bridge, manual turning means on said spindle for operating said reamer to ream the pipe and said turning means being movable to thread the collar into said sleeve to place the spring under tension independently of said nut.

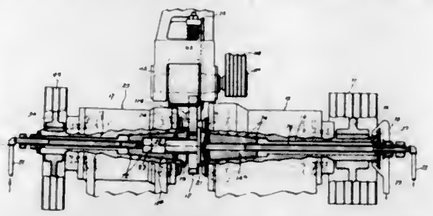
2,610,531
RING ROLLING MILL
Erhard Henschker and Frank Sidney Salter, Parkstone, England, assignors to The Loewy Engineering Company Limited, London, England, a corporation of Great Britain
Application July 23, 1949, Serial No. 106,438
In Great Britain February 24, 1947
10 Claims. (Cl. 80—5)



3. In a ring rolling machine having external and internal rolls adapted to reduce annular blanks, the combination including a stationary external roll carrying frame, a slide movable toward and away from an external roll on said frame during rolling, said slide having bearing means adapted to support one end of an internal roll, said bearing on the slide being movable therewith, an arm having one end supported in said slide, a bearing supported adjacent the other end of said arm adapted to hold the opposite end of said internal roll, and power operated arm shifting mechanism mounted on said slide and connected with said arm moving said arm and its bearing for said internal roll toward and away from an internal roll on said slide in a direction parallel to the axis of said bearing and internal roll.

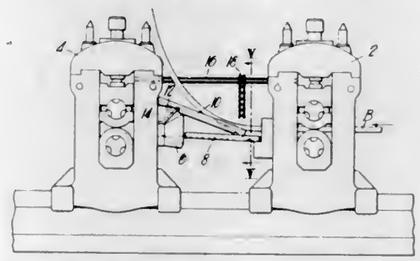
2,610,532
RING ROLLING MILL
Max R. Heppenstall, Pittsburgh, Pa., assignor to Heppenstall Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1947, Serial No. 776,546
6 Claims. (Cl. 80—5)

3. A ring-rolling mill comprising a pair of rotatably mounted horizontal and substantially axially aligned shafts having vertically disposed faces rigidly carried at the adjacent ends of said pair and formed to engage and edge the sides of a ring blank, driving means connected to both of said shafts for rotating the shafts, mechanism for reciprocating one of said shafts horizontally to and from blank engaging position, a mandrel rigidly borne by one shaft, the other shaft having a mandrel receiving recess formed in it, a horizontal rotatably-mounted and frictionally-driven work roll, and mechanism for pressing said roll against the periphery of said blank to roll the blank between it and said mandrel, the axis of one of said shafts being tilted upwardly from the horizontal axis of the other shaft and having a



conical edging face, said shaft being tilted to position the tapered portion of said conical face in a vertical plane as said tapered portion is passing between said mandrel, and said work roll, whereby the blank is engaged by both of said faces only as it passes between said mandrel and said work roll.

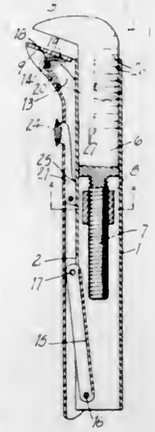
2,610,533
DEFLECTOR FOR CONTINUOUS MILL
Gust S. Rask, Duluth, Minn.
Application September 8, 1949, Serial No. 114,480
1 Claim. (Cl. 80—51)



A continuous rolling mill for rolling elongated articles including a pair of roll stands arranged in tandem and a deflector between said roll stands; said deflector comprising an elongated deflector chute located between the roll stands, means for pivotally supporting the end of the chute adjacent the second of said roll stands and above the roll pass, a beam beneath the pass line, a beam above the pass line, means suspended from the last named beam for releasably supporting the other end of the deflector chute above the roll pass, said last named means being adapted to release the said second end of the chute allowing it to drop to the first named beam and position it in the path of the moving object, the length of said deflector being so proportioned and the pivotal means for the first end of the chute being so positioned that the deflector in its dropped position will deflect the object above the adjacent side of the second stand and prevent entry into the pass thereof.

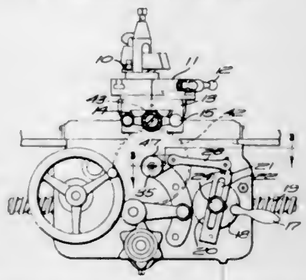
2,610,534
SLIDABLE OUTER JAW PLIER-TYPE WRENCH
Ernest H. Shaff, Spring Lake, Mich.
Application June 14, 1948, Serial No. 32,808
6 Claims. (Cl. 81—84)

5. In a wrench the combination of a tubular handle of flattened cross section having a longitudinal slot in its under side and opposed side openings, an outer jaw having a shank slidable within said handle, an adjusting nut having threaded engagement with said shank and disposed to project into said opposed side openings to facilitate manipulation and support the outer jaw in its adjusted positions, an inner jaw having a fixed pivotal connection to said handle, an actuating lever of inwardly facing channel section having an offset at its outer end pivotally connected to said inner jaw adjacent its outer



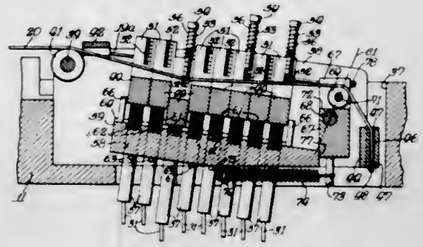
end, and a toggle link having a fixed pivotal connection at its rear end within said handle directly to said handle and pivoted at its forward end within said lever to collapse into said slot in said handle, the pivotal connection for the forward end of said link to said lever being adapted to swing across a plane extending through the pivotal connections for the lever to the inner jaw and for the link to the handle whereby a toggle lock is provided when the lever is in actuated position.

2,610,535
FEED CONTROL MECHANISM FOR LATHES
Kenneth C. Johnson, Riverside, R. I.
Application December 29, 1949, Serial No. 135,774
4 Claims. (Cl. 82—23)



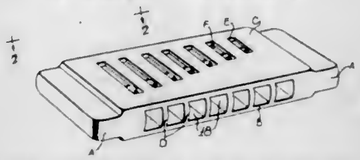
3. A control mechanism for a lathe having a tool carrier, a longitudinal feed screw, releasable lock means operatively connecting the tool carrier and the longitudinal feed screw, and a manually settable cross slide on said tool carrier, comprising a cam movable to lock and unlock the releasable lock mechanism, and mechanism connecting the cam to the cross slide for simultaneously moving the cross slide inwardly on locking movement and outwardly on unlocking movement, said mechanism including a slot in said cam, a slide element in said slot, gearing for the cross slide including a cross feed screw and a cross feed pinion and linkage operatively connecting the slide element to the cross feed pinion.

2,610,536
STRINGED MUSICAL INSTRUMENT
John B. Cousineau, Forest Park, Ill.
Application December 23, 1949, Serial No. 134,803
7 Claims. (Cl. 84—312)



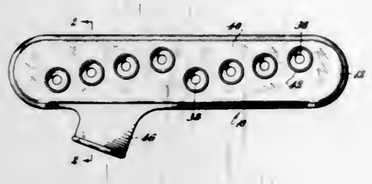
1. In a stringed musical instrument having a plurality of playing strings tensioned thereon, means for selectively varying the pitch of said playing strings comprising a plurality of upright levers pivotally mounted adjacent one end of the instrument and having portions of the playing strings tensioned thereover, a plurality of auxiliary strings operatively connected to said levers for effecting pivotal movement of the latter, a bed member disposed below said strings and having a plurality of bores therein, a plurality of depressible bars extending transversely across the strings and carrying a plurality of adjustable string-deflecting elements adapted to engage and deflect downwardly a predetermined combination of said playing and auxiliary strings, each of said bars having a depending plunger disposed for reciprocable movement in one of said bores, spring means coacting between said bed and said bars for normally urging the latter to elevated non-deflecting position, and operating means including cables secured to the lower ends of said plungers for depressing said bars.

2,610,537
CHILD'S TOY HARMONICA
Pascal A. La Grutta, Cedar Grove, N. J., assignor to Lapin Products, Inc., Newark, N. J., a corporation of New York
Application November 1, 1948, Serial No. 57,783
10 Claims. (Cl. 84—377)



1. A one piece integral unitary molded plastic harmonica construction comprising an upper plate and a lower plate, intervening vertical webs forming air passages, a back wall provided with outlets for said passages, the upper plate being slotted and said slots extending into said passageways and reeds integrally mounted on and inside of said upper plate covering said slot, and said reeds being positioned substantially entirely within the air passages between the upper plate and the lower plate and extending to and being molded integrally with said back wall.

2,610,538
MOUTH ORGAN WITH FINGERING SELECTOR
Joseph Lederfine, Brooklyn, N. Y.
Application September 13, 1947, Serial No. 773,861
6 Claims. (Cl. 84—377)



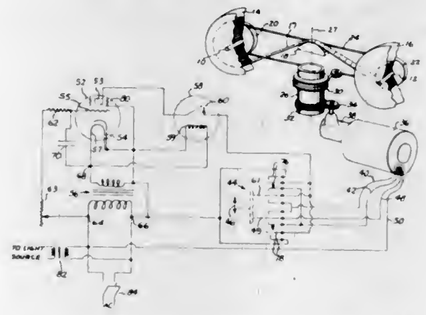
1. A mouth organ comprising a mouth organ body having a main chamber formed therein, a reed plate disposed in said chamber and dividing said chamber into upper and lower compartments, a mouthpiece formed integral with said body and communicating with said lower compartment, upper interior dividing walls spaced from each other and dividing said upper compartment into a plurality of upper sub-compartments isolated from each other and each opening inwardly upon a pair of inhale-exhale reeds in said reed plate, each of said upper sub-compartments having a fingering hole formed in its upper outer wall and constructed and arranged to form a seat to receive the finger tip of the player, so as to be normally closed thereby, whereby upon passage of air through said mouthpiece caused by suction or blowing upon said mouthpiece and the uncovering of any of said fingering holes, the corresponding reed in the path of said air is caused to vibrate to produce a musical sound, and a plurality of air-guiding partial partition walls formed integrally with the bottom and one wall of said lower compartment and extending incompletely toward the opposite wall of said lower compartment, whereby air is free to flow between said mouthpiece and through the space between said air-guiding partition walls and the said opposite wall of said lower compartment.

2,610,539
CAMOUFLAGED FISHING LINE AND METHOD OF MAKING THE SAME
Marvin K. Hedge, Portland, Oreg.
Application December 26, 1946, Serial No. 718,503
6 Claims. (Cl. 87—1)



1. A fishing line having a core provided with an exterior surface of a predetermined color throughout its extent, a coating of a different color surrounding the exterior surface of the core, and a second coating of a different color than the first coating surrounding the core, portions of the second coating covering portions of the first coating and portions of both coatings being spaced from other portions thereof to provide openings rendering accessible to view spaced portions of the exterior surface of the body of the core.

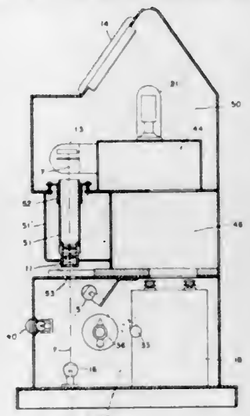
2,610,540
ELECTRICAL CONTROL MEANS FOR FILM DRIVING MECHANISMS
Richard C. Beitz, Buffalo, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 3, 1948, Serial No. 63,417
14 Claims. (Cl. 88—1)



1. In a microfilm projector or the like, the combination of a film gate, a pair of film reel supporting spindles located in such a manner that a portion of strip film wound upon and extending between reels thereon will be disposed across said gate, power transmitting gearing operatively connected to said spindles so as to selectively actuate one or the other of said spindles when moved in opposite directions, a series type electric motor arranged to actuate said gearing and having its armature and field windings connected in series relation to each other, a supply circuit connecting a source of alternating current to said motor, a power transmitting thermionic tube connected in said supply circuit so that its anode current may energize said motor, a reversing switch in said supply circuit and connected to said armature and field windings so as to selectively reverse one winding of said motor with respect to the other winding when actuated while maintaining a series relation between said windings, and a phase-shifting circuit including resistance and reactance means arranged to be connected to said source of alternating current and to a control grid of said tube so as to control the phase relation between the grid and anode voltages thereof and thereby regulate the amount of anode current being supplied by said tube to said motor, the speed of rotation of said motor and said power transmitting gearing, and accordingly, the speed of the spindle being actuated thereby, being materially influenced by the load placed upon the series motor and substantially independently of the relative diameters of the film wound upon said reels, and thereby providing a nearly constant speed of travel of said film at said film gate as established by the phase-shifting circuit regardless of the direction of travel of said film or the effective individual diameter of film wound upon either reel.

2,610,541
BLOOD TESTING APPARATUS
Ernest Lee Rowland, Jr., Jacksonville, Fla.
Application January 5, 1948, Serial No. 531
2 Claims. (Cl. 88—14)

1. Apparatus for determining blood cell counts in a layer of blood solution, comprising a slide-supporting platform, light measuring means including a photoelectric cell supported on one side of said platform substantially on the effective central normal axis thereof, a light source on the other side of said platform offset from said effective central normal axis and disposed to project a beam of parallel light through said platform at an oblique angle thereto which angle is less than the critical angle of the solution, a second light



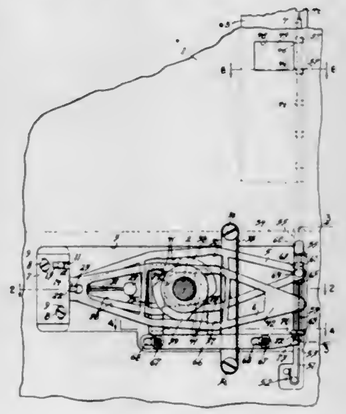
source on said other side of said platform substantially on the effective central normal axis thereof and disposed to project a beam of light along said axis and a selector switch to energize said light sources alternately.

2,610,542
APPARATUS FOR ANALYZING A CURVE UPON A CHART
Wilbert Brockhouse Smith, Ottawa, Ontario, Canada
Application October 10, 1947, Serial No. 779,158
4 Claims. (Cl. 88—14)



1. Apparatus for analysing a chart comprising an elongated strip having thereon a zero line parallel to and adjacent one longitudinal edge, and a curve, the entire surface on the chart between the curve and the zero line being filled in with a substantially non-light-reflecting material, the remaining surface of the chart being light-reflecting, said apparatus comprising a frame, a drum revolvably mounted in the frame, said chart being arranged to be mounted on the circumferential surface of the drum, a lamp mounted on the frame in normally fixed and opposite relation to said circumferential surface and arranged to direct a beam of light onto the chart thereon, means for revolving the drum to cause longitudinal travelling movement of the chart with respect to the light beam, a photoelectric cell mounted on the frame in fixed relation to said lamp and responsive to light rays reflected from said reflecting surface portion of the chart when positioned on said circumferential surface, said cell being thereby excited only during the time said beam of light traverses said reflecting surface portion of the chart, an electronic device connected to said cell for converting the output thereof into direct current, and a meter electrically connected to the current output of said device to provide a measurement thereof.

2,610,543
INTERMITTENT STRIP FEED MECHANISM OF THE RECIPROCATING TYPE
Albert S. Howell, Culver, Ind., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application December 26, 1947, Serial No. 793,836
23 Claims. (Cl. 88—18.4)

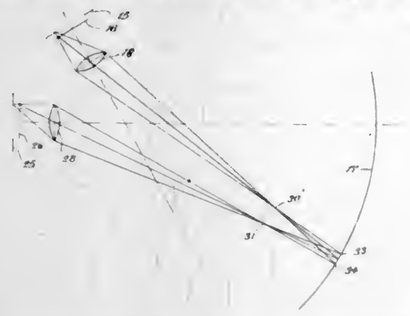


1. In an intermittent strip feed mechanism, the combination of toothed strip feed means, a lever mounted for pivotal movement and connected with said feed means for effecting reciprocatory strip feed and return movement of said feed means with oscillation of said lever, means for oscillating said lever, and the pivotal mounting of said lever comprising a first bearing means establishing a pivotal axis spaced transversely from the reciprocatory path of said feed means and operative on said lever longitudinally of the reciprocatory path of said feed means to correspondingly pivotally confine said lever and to permit relative movement between said lever and pivotal axis radially of said lever and transversely of said reciprocatory path and a second bearing means operative on said lever radially of said lever and transversely of said reciprocatory path to correspondingly confine said lever and to permit pivotal movement of said lever on said pivotal axis and operative in cooperation with said first bearing means to effect substantially rectilinear reciprocation of the feed means connected portion of said lever.

2,610,544
APPARATUS FOR PROJECTING MATCHED MOSAIC PICTURE IMAGES
Fred Waller and Richard C. Babish, Huntington, N. Y., assignors to The Vitarama Corporation, Huntington Station, N. Y., a corporation of New York
Application December 13, 1947, Serial No. 791,494
5 Claims. (Cl. 88—24)

1. Apparatus for making mosaic pictures, said apparatus comprising two separate projectors for projecting images of separate film frames upon the screen, a mask associated with the film of each projector, and each mask having a light-transmitting edge zone along the side of the image that must match a side of the image of the other picture of the mosaic, said light-transmitting edge zone being of progressively less transparency at points spaced inward from the edge of the mask, and said projectors being in positions that locate the images on the screen

with the images overlapping for a distance not greater than the width of the images of the



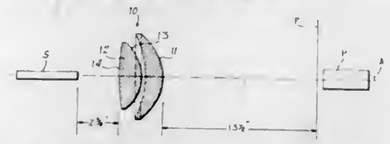
light-transmitting edge zones of the respective masks.

2,610,545
EYEPIECE MOUNTING MEANS
Donald E. Davidson, Los Angeles County, Calif.
Application April 11, 1949, Serial No. 86,851
1 Claim. (Cl. 88—57)



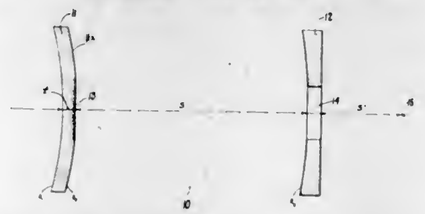
Mounting means for an eye-piece in a body part of an optical instrument, said eye-piece having a cylindrical portion at the forward end thereof, and said body part of said instrument having a fixed wall part formed with a cylindrical aperture in which said cylindrical forward end body part of said eye-piece is slidingly receivable, an external thread element extending part way around said cylindrical portion of said eye-piece, said thread element having a forward side surface without lead and a rearward side surface having a helical contour, an annular seat on said fixed wall part around said cylindrical aperture engageable by the leadless forward side surface of said thread element, and a single ledge on said fixed wall part, on one side only of said aperture in said wall part, projecting into overhanging relation with respect to a portion of said annular seat and spaced from said seat, said ledge having an arcuate seat opposite said portion of said annular seat engageable by said rearward helical side surface on said thread element when said eye-piece is twisted in said aperture with said forward side surface of said thread in engagement with said annular seat, said rearward helical surface of said thread element, and said arcuate seat on said overhanging ledge, being bevelled at obtuse angles with respect to the extent of the cylindrical portion of the eye-piece that is rearward of said thread element, said helically contoured thread element causing said thread element to be forced against said annular seat on said body part, and said bevelled surfaces on said thread element and ledge coacting to force said thread element and the cylindrical portion of the eye-piece in a lateral direction to cause binding engagement between said cylindrical portion and the interior surface of said cylindrical aperture on the side opposite from said ledge, when said eye-piece is twisted to bring said helical, bevelled surface of said thread element into forcible engagement with said bevelled arcuate seat on said ledge.

2,610,546
CONDENSER LENS ARRANGEMENT FOR PROJECTORS
Harry Rubin, Belle Harbor, N. Y.
Application April 28, 1950, Serial No. 158,879
1 Claim. (Cl. 88—57)



A rear or collector element for use in a two element condenser system of a motion picture projector lamp having both sides thereof circularly-convexly curved, said rear element having an aspherical front side and a spherical rear side, said aspherical front side being a parabolic curve based on the equation $Y^2=2PX$ in which P equals 71.5 mm. and which equals the vertex radius of curvature of said aspherical front side determined by the said equation for assigned values of X or Y, where the values of X extend parallel to the optical axis and the values of Y extend normal thereto, said spherical rear side having a radius of 364 mm.

2,610,547
CATADIOPTRIC TELEPHOTO SYSTEM
Frank G. Back, New York, N. Y.
Application August 3, 1951, Serial No. 240,219
2 Claims. (Cl. 88—57)



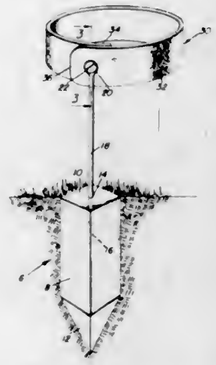
1. An optical system, comprising in combination, a concave spherical mirror, said mirror provided with a center aperture, a correction plate spaced at a predetermined distance ahead of said spherical mirror opposite to the concave side thereof, said correction plate provided with a plane mirror on the rear convex side thereof, facing the concave face of said spherical mirror, constructed in accordance with the following specifications:

Equivalent focal length of system	inches	40
Speed		F :8
Radius of curvature of correction plate R_1	inches	18.283
Radius of curvature of correction plate R_2	do	18.750
Central thickness t of correction plate	do	.375
Index of refraction of correction plate N_D		1.533
First surface spherical concave mirror R	inches	80
Distance s between rear surface of correction plate and mirror	inches	15.500

Wherein R means radius; t means thickness; S means spacing; F means relative aperture; N_D means index of refraction for sodium light and R and s etc. identify varying radii and spacings.

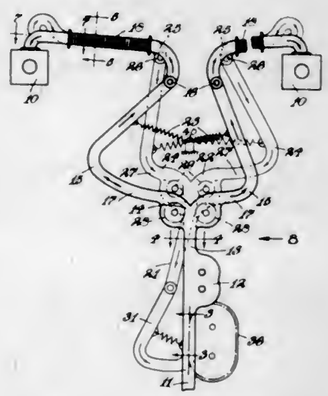
2,610,548
AIRPORT TAXIWAY REFLECTOR
Robert M. Isenberg, Fort Mitchell, Ky.
Application September 1, 1950, Serial No. 182,810
3 Claims. (Cl. 88—78)

1. A combination marker and reflector of the class shown and described comprising an annular band having its exterior surface coated with reflection means, the ends of said band being overlapped and provided with aligned bolt holes, a stake having an eye in alignment with



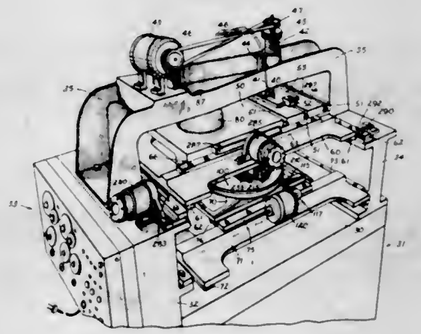
said bolt holes, a bolt passing through said eye and bolt holes, and nut means on said bolt joining said overlapped ends together and also fastening same to said eye.

2,610,549
AMMUNITION SUPPLY SYSTEM FOR AUTOMATIC FIREARMS
Evelyn Cecil Muschamp d'Assis Fonseca and Spencer Green, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application July 11, 1946, Serial No. 682,844
In Great Britain March 6, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires March 6, 1965
9 Claims. (Cl. 89—33)



1. An ammunition supply system for an automatic firearm comprising a stripper mechanism adapted to be disposed at a distance from a firearm for receiving a belt of ammunition and separating the links connecting the rounds in the belt, a chute communicated with the stripper mechanism for receiving the separated rounds and adapted to be connected to a firearm to introduce the rounds in successive fashion into the firearm, a plurality of spacer members, means for introducing the spacer members into the stripper mechanism and for applying a spacer member to each round so that the rounds pass through the chute in parallel relationship, means for removing the members from the rounds immediately prior to the point of introduction of the rounds to the firearm and means for conveying the members so removed back to the means for introducing them into the stripper mechanism.

2,610,550
FABRICATING MECHANISM
William S. Touchman, Milwaukee, Wis.
Application January 28, 1947, Serial No. 724,796
50 Claims. (Cl. 90—11)

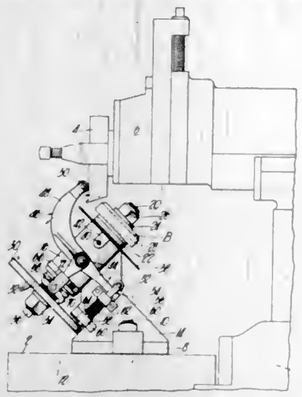


1. A machine of the character described for generating relative working movement of a workpiece and a working member without the use of a template or like guiding member, comprising a base, a work table, means for supporting said table for movement relative to said base in a predetermined plane, a workpiece and a working member carried one on said base and the other on said work table, drive means for moving said work table relative to said base in said plane to generate an arcuate profile, adjustable guiding means carried in cooperative relation by said work table and said drive means for establishing a predetermined radius for said profile, and means for moving said drive means with respect to said base to determine the location and direction of said profile with respect to said base.

2,610,551
INDEXING DEVICE
Frederick W. Riedel, Belle Vernon, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application September 11, 1946, Serial No. 696,291
12 Claims. (Cl. 90—29)

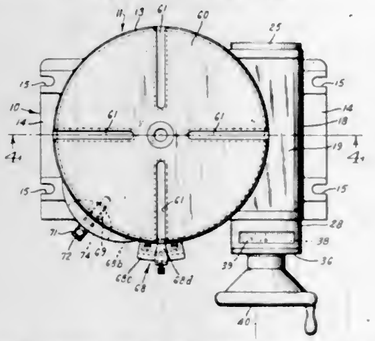
1. Apparatus for machining grooves in a roll or the like comprising a toolhead, a bed, said bed and tool being movable with respect to one another to machine a groove in said roll, a housing mounted on said bed, a work support rotatably mounted in said housing, an indexing disk mounted for movement with said work support, a three-armed lever pivotally mounted on said housing, a lock pin extending against said disk to hold it in position during the machining operation, one of said arms of said lever being operatively connected to said locking pin, the second of said arms being connected to rotate said disk, the third of said arms contacting said toolhead

upon completion of the machining of each groove to rotate the lever about its pivot to release said



lock pin and move the disk and the roll into position to machine the succeeding groove.

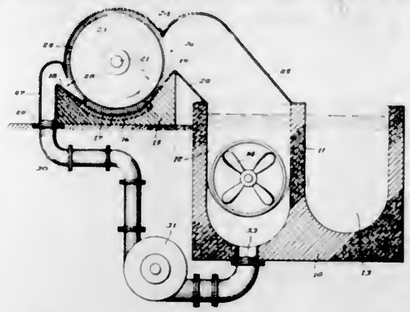
2,610,552
ROTARY TABLE
Frederick C. Victory, Milford, Conn., assignor to Moore Special Tool Co., Inc., a corporation of Connecticut
Application January 17, 1950, Serial No. 139,068
7 Claims. (Cl. 90—58)



1. In a rotary table, a base, a post rotatable in said base, a turret table rigid with said post and rotatable therewith on said base, a worm gear turnable about said post, a worm meshing with said worm gear and rotatable in fixed bearings and therefore constantly meshing with said worm gear, a split spring sleeve about said post and fixed to said worm gear, a clamp about said sleeve, and manually operable means for tightening said clamp and drawing said sleeve against said post to secure the worm gear thereto whereby on turning of said worm said post and thereby said turret table will be turned.

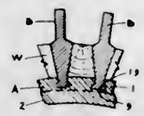
2,610,553
CONTROLLED FLOW BEATER
Frank Hayes, Hoosick Falls, N. Y., assignor to The Noble & Wood Machine Co., Hoosick Falls, N. Y., a corporation of New York
Application February 26, 1951, Serial No. 212,753
4 Claims. (Cl. 92—22)

1. A beater for pulp comprising, in combination; a rotatable beater roll, means for rotating said roll, a bed plate having bars thereon positioned below said roll, bars about the periphery of said roll spaced to define cells having a size greater than .24 inch and less than 1 inch, and means for delivering stock under velocity to said



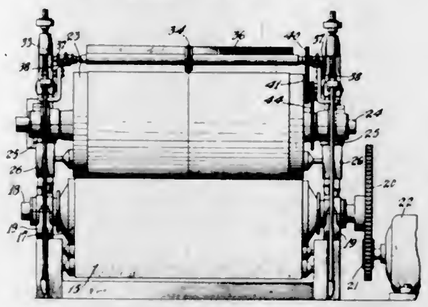
roll, in a quantity sufficient only to cover the bar edges of said roll and said bed plate.

2,610,554
JORDAN ENGINE PLUG CONSTRUCTION
Harold D. Stuck, Andover, Mass., assignor to John W. Bolton & Sons, Inc., Lawrence, Mass., a corporation of Massachusetts
Application December 17, 1947, Serial No. 792,289
3 Claims. (Cl. 92—27)



1. The combination in a Jordan engine plug having a truncated conical supporting body, of an outside member made of a plurality of sections of stainless steel each section being curved to fit the exterior of said supporting body and having substantially straight sides abutting the sides of adjoining sections and being seam welded thereto and the sections being also welded to the supporting body, there being outside slots in the outside member to receive and hold outwardly extending bars, the outside of each slot being smaller than some parts of the inside whereby each bar can be held in place against radial displacement.

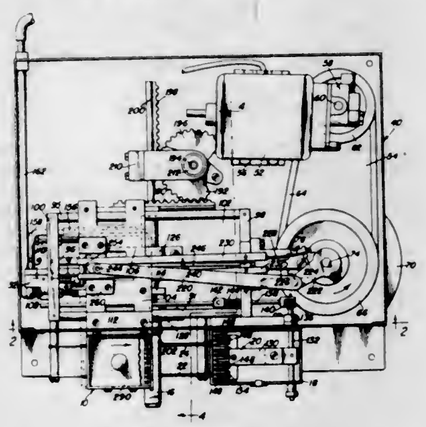
2,610,555
METHOD FOR PRODUCING SHINGLE STOCK
John A. Romano, Berkeley Heights, N. J.
Application May 27, 1946, Serial No. 672,680
2 Claims. (Cl. 92—67)



1. The method for producing wet asbestos-cement shingle stock comprising spirally winding around an accumulator roll a relatively thin web of asbestos-cement mix in the wet state and during said winding operation and while

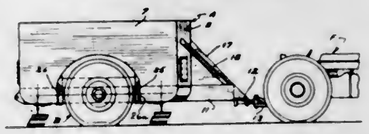
on said roll, cutting both longitudinally and circumferentially each individual turn of said wet web on said roll before the next succeeding turn has been completely formed on said roll, the longitudinal and circumferential cuttings of each succeeding turn being substantially in alignment with the respective longitudinal and circumferential cuttings of each subjacent turn whereby individual wet asbestos-cement shingle stock is formed on the accumulator roll.

2,610,556
DEVICE FOR MAKING TUBES FROM SHEET MATERIAL
Francis C. Worth, Ridgewood, N. Y.
Application August 25, 1950, Serial No. 181,514
16 Claims. (Cl. 93—77)



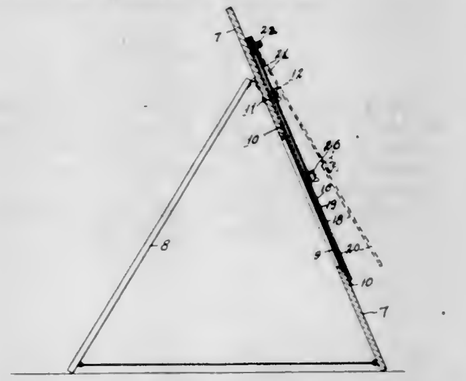
7. In a machine for forming tubes from sheets, an open bottom magazine to hold a stack of sheets, at least one rail disposed below the open bottom of said magazine to support the sheets, means for reciprocating said magazine, a rotary mandrel arranged in juxtaposition with said magazine and having its axis transverse to the path of travel of the magazine, a glue applicator, means for moving said applicator against one edge of the bottom sheet in said magazine, said mandrel having a suction port which is arranged to hold the other edge of the bottom sheet when said magazine is moving away from said glue applicator, and said mandrel being of a smaller periphery than the length of the sheet so that the said edges of the sheet overlap.

2,610,557
PNEUMATIC ROLLER COMPACTOR
Chester W. Bros, Archie O. Williamson, and Ulyss O. Guignard, Minneapolis, Minn., assignors to Wm. Bros. Boiler and Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application November 17, 1949, Serial No. 127,865
4 Claims. (Cl. 94—50)



2. An earth compaction roller comprising a unitary hollow body member adapted to receive weight producing ballast and having a transversely extending arched recess substantially midway its front and rear ends, two pair of pneumatic tired wheels mounted in said recess, one pair under each half portion thereof, to support the body member with its longitudinal center of gravity substantially over the wheels and so the entire weight of the body will be transversely distributed to both pairs of wheels, a shaft in the recess mounting each pair of said wheels, a fore-and-aft extending support for each shaft positioned between each pair of wheels with each support oscillatably mounted whereby the wheels of each pair have freedom for oscillating movement with respect to its side of the body member and bearings for the fore-and-aft supports disposed at the lower ends of the arched recess, said supports maintaining the lower ends of the recess wall in parallelism.

2,610,558
WORK HOLDER ATTACHMENT FOR EASELS
William G. Clayton, La Crosse, Wis.
Application August 15, 1949, Serial No. 110,425
4 Claims. (Cl. 95—102)

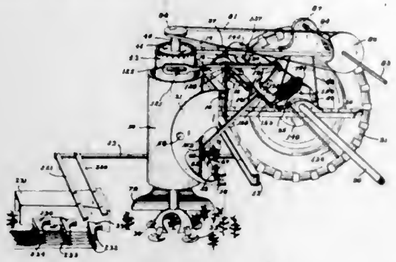


1. For an easel having a translucent area, a flat opaque plate adapted to overlie the front face of the easel and to cover said translucent area of the easel, means for attaching said plate to the easel, said plate having a front face for supporting the work during retouching and being formed with an aperture overlying the translucent area of the easel through which the work may be illuminated, a translucent filler removably fitting in said aperture, a shield disposed to overlie said front face of the plate for holding the work thereon, said shield having a portion for contact with the work which is substantially smaller in area than the work to be retouched and having an aperture through which retouching may be performed on work held between said shield and plate, the aperture in said shield being normally disposed in registry with the aperture in said plate, a major portion of said shield projecting at one side of the aperture in the shield and having an area adapted to afford a rest for the hand and wrist of the operator during the retouching and means movably connecting the shield to the plate.

2,610,559
COTTON CHOPPER
Frederick W. Peel, Somerville, Tenn.
Application August 8, 1947, Serial No. 767,404
9 Claims. (Cl. 97—13)

1. A chopper and weeder for plant rows comprising a substantially vertical shaft, a plurality

of substantially horizontal blades connected to the lower end of the shaft; a plant protector connected to the lower end of the shaft; said plant protector comprising at least a portion of the connection of the blades to the shaft; a source of power, a connection from said source of power



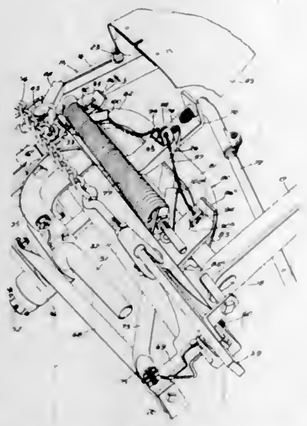
to said shaft for rotating said shaft and blades, said shaft being vertically slidable while rotating, and a second connection from said source of power to said shaft for alternately lowering and raising said shaft and blades while said shaft and blades rotate.

2,610,560

HITCH FOR IMPLEMENTS AND VEHICLES

Wilbur J. Coultas and Nolan D. Colvin, Moline, and William B. Palmer, Rock Island, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois

Application May 11, 1948, Serial No. 26,324
7 Claims. (Cl. 97—47)



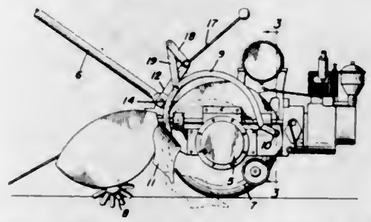
2. Hitch structure for connecting an implement to a tractor, comprising: a tractor hitch part including a horizontal, elongated bar having front and rear sides, a member rigid on the bar substantially at a midpoint thereof and extending horizontally forwardly therefrom, and means providing a vertical aperture in said member; and an implement hitching part including a generally horizontal U-shaped element having its bight positionable below and engaging said member with its legs spaced lengthwise of the bar and extending below and rearwardly beyond the bar, means providing a vertical aperture in the bight for alinement with the member aperture, a removable securing pin passing through said apertures, and means on the legs providing a pair of forwardly opening pockets spaced lengthwise of the bar and separably receiving the bar, said pocket-forming means including, on each leg, a first portion in the form of an abutment joined to the leg to engage the bar from behind and a second portion in the form of a lip joined to the abutment and extending forwardly over and engageable with the bar from above.

2,610,561

HILLING ATTACHMENT FOR ROTARY TILLING MACHINES

John D. Roth and Kenneth D. Roth, Stowe, Pa.

Application November 16, 1948, Serial No. 60,242
1 Claim. (Cl. 97—48)



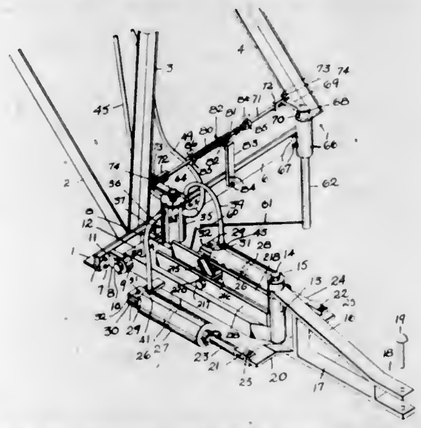
A hilling device for a rotary tilling machine having rearwardly converging trailing handles with front ends secured to the machine in the longitudinal center thereof, said device comprising a beam carrying a plow and having a front end pivoted to one side of the machine for vertical swinging of said beam on said machine alongside the same, a bracket inclining upwardly and forwardly of the front ends of said handles with a rear end yoke thereon straddling said handles at their front ends and fixed thereto, a shaft extending laterally from the front end of said bracket to said side of the machine a sleeve rockably supported on the shaft, a lever fixed to said sleeve adjacent one end thereof for rocking the sleeve, an arm extending from said sleeve adjacent the other end thereof, and a link pivoted to said arm and beam whereby rocking of said sleeve in a selected direction will swing said beam to raise and lower the plow.

2,610,562

AUTOMATIC STEERING DEVICE FOR BEAN PICKING MACHINES

John W. Ward, Vernon, N. Y., assignor to Ward Canning Company, Vernon, N. Y., a partnership

Application April 1, 1948, Serial No. 18,335
6 Claims. (Cl. 97—49)



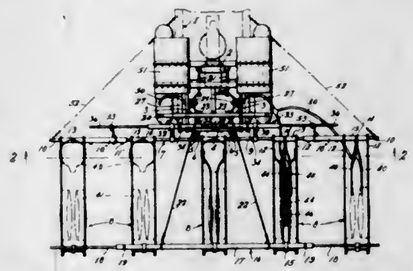
6. In an automatic steering device for a bean picking machine, a yoke member adapted to steer the machine when turned to one side or the other, piston rods pivotally connected to opposite sides of said yoke member, pistons mounted on said piston rods, cylinders housing said pistons, a valve casing having ports therein, conduits connecting said casing ports with said cylinders and with a source of fluid under pressure, a rotary valve mounted in said casing, rotation of said valve in one direction being adapted to open ports to supply fluid under pressure to one of said cylinders and rotation of said valve in the opposite direction to the other cylinder, a pair of buffer rods adapted to contact the opposite sides of a row of bean vines and to be moved outward by the bean vines when the relationship between the bean picking machine and the row of bean vines changes, one of said buffer rods being connected to said valve for rotating said valve in one direction upon outward movement of said buffer rod, a crank arm connected to said valve, a tie rod connected at one end to said crank arm, a second crank arm connected to said tie rod at the opposite end thereof, a shaft connected to said second crank arm and to the other of said buffer rods, whereby outward movement of said other buffer rod will rotate said valve in the opposite direction, whereby movement of said buffer rods by the bean vines in the row admits fluid to one or the other of said cylinders to turn said yoke member and steer the machine, coil springs mounted on said tie rod, a member separating said springs, and collars mounted on said tie rod to hold said springs under compression, whereby said valve is normally held in neutral position.

2,610,563

TRACTOR IMPLEMENT HITCH

Lorenzo D. Lambson, Southwick, Mass.

Application July 30, 1948, Serial No. 41,689
2 Claims. (Cl. 97—232)



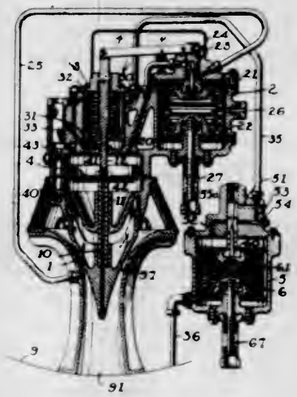
1. A hitch for connecting a plurality of tobacco setters to a tractor having a lift which comprises a horizontal gang bar, frame means for rigidly attaching said bar to the frame of the tractor at two spaced points adjacent the center of the bar, the end portions of the bar extending outwardly from said points of attachment, said extending end portions being stiffly flexible, spaced setter supporting frames, one for each setter that is to be connected by the hitch, the leading ends of said setter supporting frames being each pivotally connected to said gang bar for pivotal movement in a vertical plane only, a tail bar, means for connecting said tail bar to the lift of the tractor at two spaced points adjacent the center of the tail bar, the end portions of the tail bar extending outwardly from said spaced points of connection, said extending end portions being stiffly flexible, means loosely connecting the trailing end of each setter supporting frame to said tail bar, one of said setter supporting frames being connected to the gang bar and tail bar between the said spaced points of connection of said bars to the tractor frame and tractor lift respectively, the remaining setter supporting frames being connected to the said extending stiffly flexible portions of said bars.

2,610,564

RATIO CONTROL FOR PRESSURE CABINS

James B. Cooper and Alfred B. Jepson, Seattle, Wash., assignors to Boeing Airplane Company, a corporation of Delaware

Application May 16, 1942, Serial No. 443,181
27 Claims. (Cl. 98—1.5)



11. Mechanism to regulate aircraft cabin pressure, comprising means to supply air under pressure within the cabin, an outflow valve, pneumatic actuating means operable under the influence of an air pressure difference and operatively connected to the valve to control the opening thereof, pressure responsive control means operable to vary the pressure acting on said pneumatic actuating means for controlling the opening of said outflow valve to establish cabin air pressure at a value higher than atmospheric pressure, and further pressure responsive control means communicable with the cabin and with the atmosphere and operative to override said first pressure responsive control means and to alter the pressure to which said pneumatic actuating means is subjected and thereby to control said outflow valve automatically to prevent the ratio of cabin air pressure to atmospheric pressure exceeding a selected ratio.

2,610,565

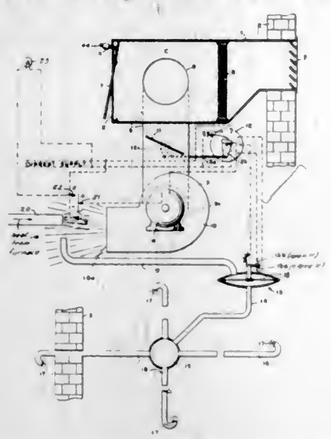
MEANS FOR CONTROLLING AIR PRESSURE IN BUILDINGS

William W. Stuart, Des Moines, Iowa

Application December 14, 1946, Serial No. 716,345
2 Claims. (Cl. 98—1.5)

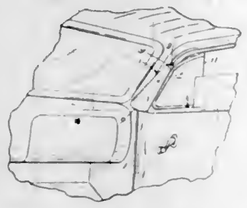
1. Means to provide predetermined air pressure in a building, comprising a duct for admitting air to a building, a blower in said duct, means for starting and stopping the blower according to the difference in pressure inside and outside the building, said means including an averaging chamber connected with outside air on at least two sides of the building below the roof of the

building, and a pressure sensitive element subject on one side to pressure within the building



and on the other side to pressure in the averaging chamber.

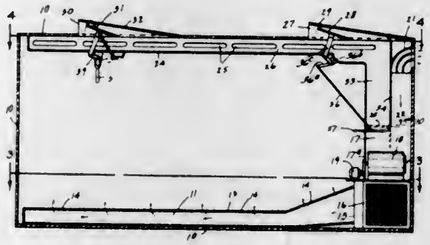
2,610,566
VENTILATING DEVICE FOR AUTOMOBILES
Harold C. Schreckengost, Erie, Pa.
Application August 25, 1948, Serial No. 46,103
2 Claims. (Cl. 98—2)



1. A quickly attachable and detachable air deflector for ventilating an automobile for mounting in a conventional automobile window frame having a straight edged portion at the forward inner side of the vertical edge thereof and having a central peripheral groove with a sealing gasket therein comprising an arcuate shaped plate member having a substantially straight flanged edge for disposal on the straight edged portion of the inner side of the groove in said vertical edge in the front of said window secured by the gasket therein, said member being of less length than the height of said forward vertical edge of said window and the arcuate portion of said member being flared outwardly from the straight edged portion thereof, said arcuate portion increasing in radius from the top to the bottom thereof substantially defining a segment of a cone, said curved portion being bent on an axis defining an acute angle with the straight flanged end thereof and with said radius of said arcuate portion gradually increasing from top to bottom.

2,610,567
VENTILATING AND HEATING SYSTEM
Philip B. Davis, Greenland, N. H.
Application December 9, 1949, Serial No. 132,161
2 Claims. (Cl. 98—10)

1. A ventilating system for use in chick carrying trucks comprising a chamber disposed in the front end of said truck and being in communication at its upper end with the outside air, a pair of right angularly disposed heating units mounted on the floor of said truck adjacent one of the forward corners thereof, said units together with the side and front wall of said truck forming a chamber in communication with said first mentioned chamber, a blower fan mounted immediately above said last mentioned chamber, a pair of supply ducts positioned on the floor of said truck and extending substantially the entire length thereof, one of said ducts being in communication with one of said heating units and extending along a side wall of said truck, the other of said ducts being substantially L-shaped, extending along the other side wall of said truck and being in communication with said other heating unit, said ducts each having a plurality of opposed slots formed along the marginal edges

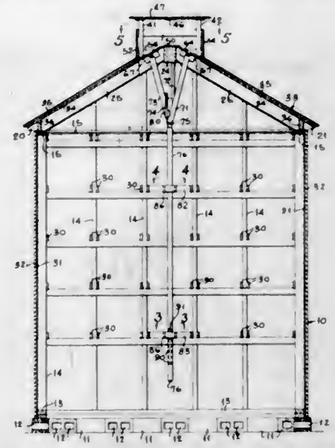


of its upper face, both of said ducts having a width sufficient to support thereon in tiered relation between opposed slots a plurality of apertured chick boxes, a return duct mounted at the top of said truck and extending substantially the entire length thereof, said return duct communicating with said first mentioned chamber and having a plurality of slots formed in spaced relation through the side walls thereof, an exhaust outlet formed in said return duct intermediate the ends thereof and communicating with the outside air, a damper element overlying said outlet for controlling the amount of air exhausted from said return duct, and a second damper element disposed at the point of communication between said return duct and said first mentioned chamber for controlling the amount of air recirculated through said system.

2,610,568
TOBACCO BARN STRUCTURE
Gilder S. Horne, Charlotte, N. C.
Application April 25, 1949, Serial No. 89,439
8 Claims. (Cl. 98—52)

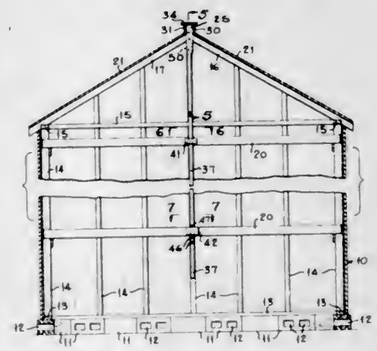
1. In a tobacco barn having a foundation, and also having side walls supported on the foundation, and also having a pyramidal-shaped roof supported on the upper ends of the side walls, said roof being provided with a rectangular opening at its apex, an open-ended hollow member having vertically disposed wall members secured to said roof, one wall member being adjacent each side of said rectangular opening, a horizontally disposed plate member mounted in spaced relation to the upper ends of said vertically disposed wall members, a substantially triangular door hingedly connected to the roof at each of the sides of the rectangular opening, said roof being provided with hip rafters extending inwardly and upwardly from each corner thereof and being joined together at their upper proximate ends and said hip rafters spanning said opening, the said hinged doors normally resting on the hip rafters, a vertically movable staff extending from adjacent the bottom floor of the barn and terminating

a substantial distance below the apex of the pyramidal roof, link members pivotally connected to the upper end of said staff and being connected at their other ends to the bottoms of the said hinged doors whereby, upon moving the said staff upwardly, the doors will be moved apart from



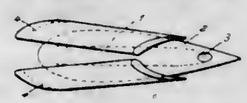
each other at their proximate upper edges to thus regulate the size of the opening between the free ends of said hinged doors and means on said staff for locking the staff in a desired elevated position for holding the hinged doors at a predetermined angular position.

2,610,569
COMB VENTILATOR FOR TOBACCO BARNS
Gilder S. Horne, Charlotte, N. C.
Application April 25, 1949, Serial No. 89,440
2 Claims. (Cl. 98—52)



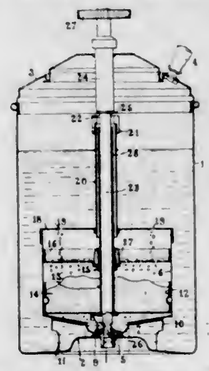
1. In a tobacco barn having a gable roof comprising two sloping roof sections joined together at their upper ends, the sloping roof sections having an elongated rectangular opening at their junction point, an uprising vertical side wall member disposed on each side of the opening and extending for the length of the opening, a spacer member positioned at each end of said opening and closing the ends thereof and supporting said side walls, a planar cover member normally resting on the upper edges of the side wall members with its edges overhanging the side walls for closing the opening, a plurality of control staffs secured to the lower surface of said longitudinally extending planar cover member and extending downwardly between the side walls and through said opening, the lower end of the control staffs terminating adjacent the floor of the barn, stop blocks on said control staffs adapted to engage said spacer members to limit upward movement of said shafts and locking means for holding the control staffs and the planar cover member in elevated position to allow air to flow in a horizontal path between said side wall members and said planar cover member, the control staffs at their upper ends being wide enough to slidably engage the inner surfaces of the vertical side wall members.

2,610,570
SMOKE STACK IN PARTICULAR FOR LAND VEHICLES AND SHIPS
Jacques Valensi, Marseille, France, assignor of one-half to Societe Anonyme des Forges et Chantiers de la Mediterranee, Paris, France, a corporation of France
Application February 12, 1948, Serial No. 7,933
In France July 12, 1947
5 Claims. (Cl. 98—60)



1. Smoke-stack which comprises a flue and a fairing structure surrounding said flue of teardrop transverse cross-section, said structure having substantially upstanding leading and trailing edges and an upwardly-convex top connecting said edges, and the outlet of said flue being located in the rearwardly and downwardly extending portion of said convex top toward said trailing edge.

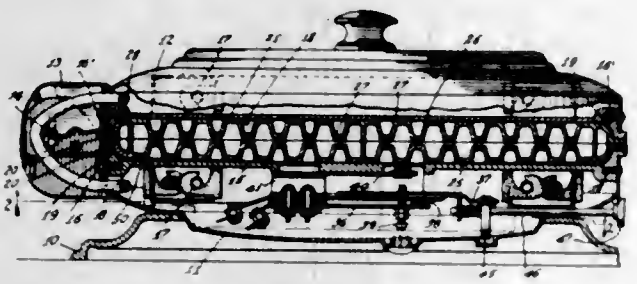
2,610,571
APPARATUS FOR THE PREPARATION OF STEEPED BEVERAGES
Louis Marcel Pouget, Les Garennes, near Vallieres, France
Application June 5, 1948, Serial No. 31,246
In France June 6, 1947
11 Claims. (Cl. 99—317)



1. An apparatus for the preparation of steeped beverages comprising in combination a box designed to contain the substance to be steeped, a beverage draw-off duct leading from the bottom of said box, means to control the outflow from said duct, a strainer at the bottom of said box through which the beverage can flow towards the draw-off duct while the substance steeped is retained in the box, a cover on said box provided with capillary holes, a receptacle adapted to con-

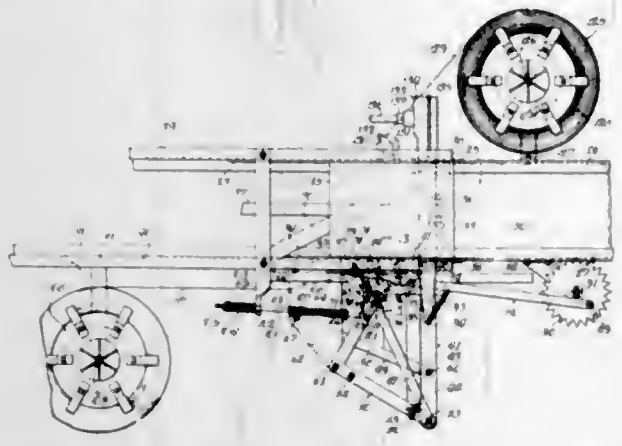
tain a liquid and the side walls of which extend around and above said cover, a tube projecting through the cover and the receptacle, one end of which opens into the box while its other end opens in the atmosphere above the maximum level of the liquid in the receptacle, and means to close said tube whereby the inside of the box can be connected with or cut off from the surrounding air.

2,610,572
COOKING APPLIANCE
Edward A. Farr, Columbus, Ind., assignor to Arvin Industries, Inc., a corporation of Indiana
Application July 22, 1949, Serial No. 106,274
2 Claims. (Cl. 99—331)



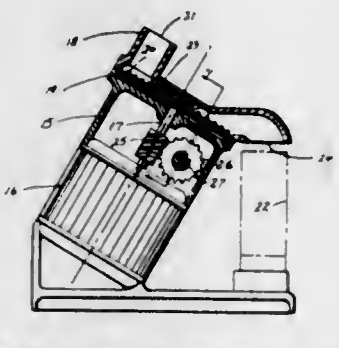
1. In a cooking appliance, a grill having a substantially plane cooking face, an electric heating element for heating the grill, a waffle grid having a face opposed to and adapted for application to the cooking face of the grid to receive heat conducted therethrough from the heating element, a temperature-responsive element in close heat-transmitting relation with the grill at a predetermined point on the opposite side thereof from the cooking face, one of the opposed faces of the grill and grid being relieved over portions remote from such predetermined point to provide over such remote portions a slight space between said opposed faces and to leave an unrelieved surface-portion occupying only a small fraction of the entire area of such surface, releasable means for holding the grid in place on the grill and in close heat-transmitting relationship therewith in the immediate vicinity of said temperature-responsive element, and switch means operated by the temperature-responsive element for controlling the supply of current to said heating element.

2,610,573
TYING MECHANISM FOR BALERS
Herman E. Altgelt, South Bend, Ind., assignor to The Oliver Corporation, a corporation of Delaware
Application June 19, 1944, Serial No. 540,918
38 Claims. (Cl. 100—4)



1. The combination with a baler, of a reciprocable plunger mounted therein, a reciprocable shuttle mounted on said baler and operatively connected to said plunger, a wire twisting mechanism and a wire bending mechanism carried by said baler and operatively related to said shuttle, and means for holding said shuttle adjacent said twisting mechanism during wire twisting and bending operations.

2,610,574
COMBINATION JUICE EXTRACTING MACHINE
Jonathan Winson, New York, N. Y.
Application June 16, 1947, Serial No. 754,818
1 Claim. (Cl. 100—96)

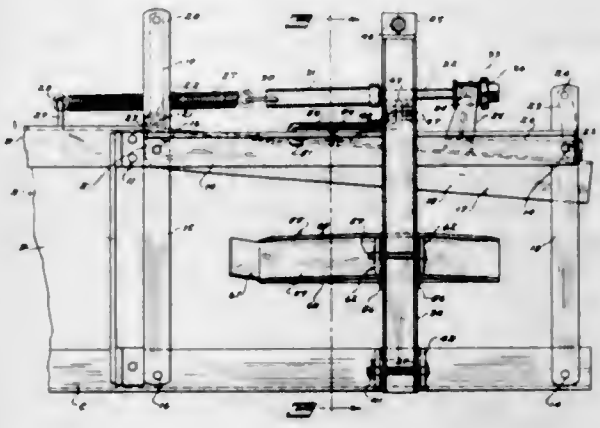


In combination, a frame, a nut having a threaded bore and journalled on the frame whereby it is revolvable about the axis of its threaded bore, a screw adapted for threaded engagement with the nut and positioned in alignment with the bore of the nut, co-operating means on the screw and frame to maintain the screw against axial rotation but permitting longitudinal movement of the screw, means to urge the screw longitudinally towards the nut when the screw and nut are in disengagement, whereby the end of the screw thread nearest the nut is in contact with the end of the threaded bore of the nut, and upon rotation of the nut in one direction, the nut will threadedly engage the screw and move the latter therethrough in one direction, and upon reversal of the direction of rotation of the nut, the screw will move through the nut in the reverse direction until it becomes threadedly disengaged from the nut, the screw assuming a substantially constant position with respect to the frame upon such disengagement regardless of continued rotation of the nut in such reverse direction, means to rotate the nut comprising a driving shaft whose direction of rotation determines the direction of rotation of the nut, said shaft being mounted on the frame, a comminuting means for substances having juice therein which is driven by said shaft, and a juice extracting press comprising a cylinder having a piston slidably positioned therein, the screw upon movement thereof in one direction through the nut, being adapted to move the piston into the cylinder, and means on the frame to maintain the cylinder against movement in the direction of the screw movement.

2,610,575
SIDE TENSIONER FOR BALES
Paul P. Wuertz, Melrose, Minn., assignor, by mesne assignments, to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota
Application January 3, 1949, Serial No. 68,890
7 Claims. (Cl. 100—192)

1. For a hay baler having a tensioning plate yieldably supported for engagement with and movement by one side of the bales, a support, carrier arms pivoted on the support, shoe elements carried by the arms and positioned to frictional-

ly engage two sides of the bales contiguous to the side engaged by the tensioning plate, spring mechanism connected to the carrier arms to urge



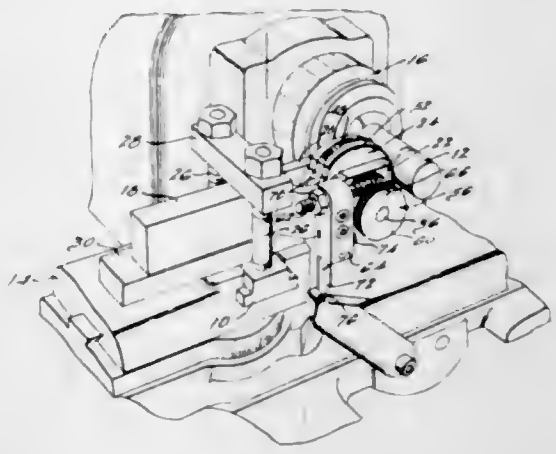
the shoe elements against the bale, and actuating elements connecting the carrier arms and tensioning plate to move the carrier arms and shoe elements.

2,610,576

ROTATABLE MARKING TOOL

Richard H. Norris, Detroit, Mich., assignor to New Method Steel Stamps, Inc., Detroit, Mich., a corporation of Michigan

Application October 27, 1949, Serial No. 123,854
3 Claims. (Cl. 101—7)



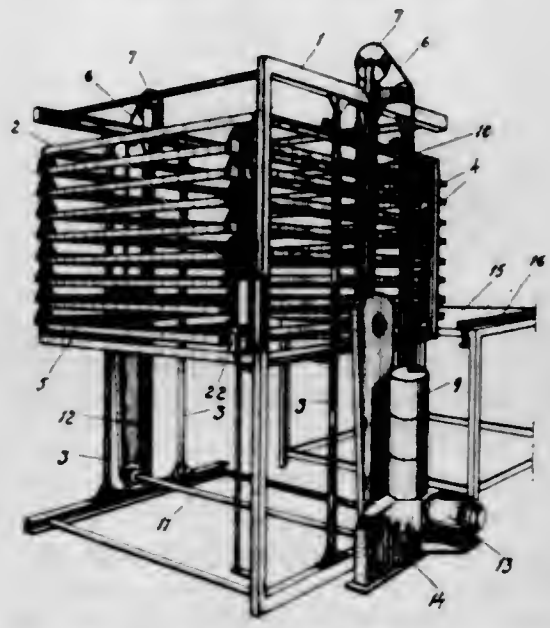
1. A marking tool comprising a mounting bracket, a rotatable marking roll carried by said mounting bracket adapted for movement to and from a rotatably driven object to be marked and to be rotated by engagement with said object, said roll including a peripheral marking die having embossed indicia thereon and engageable with said object to mark the same during rotation of the roll, a recess in the periphery of said roll immediately behind said marking indicia for disengaging the roll from said object after the marking operation is completed, a knob rotatable with the marking roll having a serrated peripheral surface, and a spring loaded pivoted pawl disposed beside the mounting bracket and arranged with one end thereof in engagement with the serrated periphery of said knob, said pawl being positioned to ratch freely over the surface of the knob during the marking operation and engageable with the serrations on said knob to check reverse rotation of the roll after the marking operation is completed.

2,610,577

SCREEN PRINTING MACHINE

Clemens Anton Heintges, Uddevalla, Sweden, assignor to Aktiebolaget Teximpex, Gothenburg, Sweden, a corporation of Sweden

Application October 3, 1949, Serial No. 119,265
In Sweden October 5, 1948
5 Claims. (Cl. 101—115)



1. A screen printing machine comprising an upstanding frame, a magazine vertically guided in said frame including a plurality of vertically spaced pairs of horizontally aligned guide rails, a carriage for a screen printing frame mounted on each pair of guide rails in said magazine and adapted to be withdrawn therefrom and returned thereto individually along a horizontal path, a printing table adjacent said upstanding frame and including spaced guide rails positioned for end to end alignment with the respective pairs of guide rails in said magazine to receive the carriages from said magazine in succession upon vertical shifting of said magazine to positions to align the guide rails thereof with the guide rails on said printing table, means including an electric motor in driving engagement with said magazine and a counterweight at least partially counterbalancing the loaded weight thereof for effecting vertical movement thereof in said frame and the step by step successive alignment of the respective pairs of guide rails thereof with the guide rails on said printing table in succession, a retractable latch member engageable with spaced abutments on said magazine for locking the same in positions of alignment of the guide rails thereof with the guide rails on said printing table and means for retracting said latch means actuated by said carriages upon return thereof to stored position in said magazine after each printing operation to release said magazine for movement to bring the next pair of guide rails into position in alignment with said guide rails on said table.

2,610,578

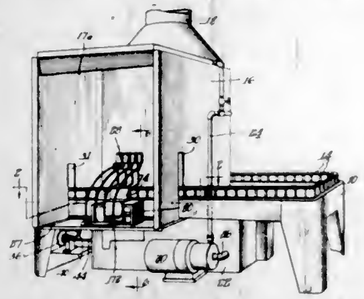
AUTOMATIC MULTICOLOR AIRPAINTING APPARATUS

Jens A. Paasche, Chicago, Ill.

Application September 18, 1947, Serial No. 774,773
11 Claims. (Cl. 101—115)

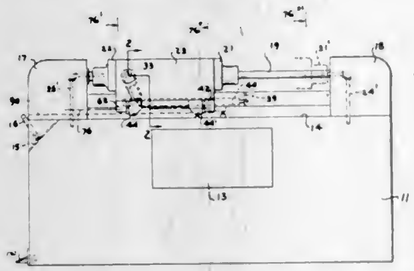
1. An automatic coating apparatus comprising a base, a conveyor element mounted on said base and provided with spaced-apart article supports, a carriage positioned adjacent said conveyor element, means to reciprocate said carriage in synchronism with said conveyor element, spraying

means mounted on said carriage, stencil plates mounted on said carriage so as to be vertically reciprocable, and control means to synchronize



the vertical movement of said stencil plates and the operation of said spraying means with the movement of said carriage in synchronism with said conveyor element.

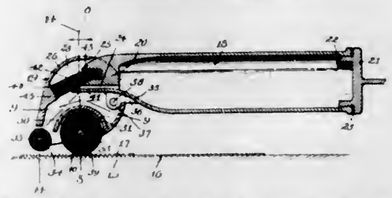
2,610,579
SILK SCREEN PRINTING PRESS
Charles A. Wing, Ann Arbor, Mich.
Application December 9, 1949, Serial No. 132,129
18 Claims. (Cl. 101—123)



1. In a silk screen printing press, a horizontal bed, a work sheet support thereon, a screen mounted upon said bed and positioned above and adjacent said support in parallel spaced relation, a reciprocal slide movably mounted upon said bed above said screen, a squeege carried by and depending from said slide and movable upon the surface of said screen, and a pair of work sheet gripping elements depending from said slide for transporting a work sheet from said bed to said work sheet support under said screen.

16. In a silk screen printing press, a horizontal bed, a reciprocal slide movably mounted upon said horizontal bed, a reciprocal fluid motor upon said bed joined to said slide, a source of pressure fluid, a fourway valve joined thereto, a pair of conduits interconnecting said valve with opposite ends of said motor, a work piece supporting vacuum bed upon said horizontal bed, a vacuum cylinder having a reciprocal piston and rod therein, a conduit interconnecting one end of said vacuum cylinder with said vacuum bed, a vacuum operating cylinder, a reciprocal piston therein joined to the vacuum cylinder piston rod, a second fourway valve joined to said source of pressure fluid, and a pair of conduits interconnecting said latter fourway valve with opposite ends of said vacuum operating cylinder, said valves including spring biased valve elements therein normally directing pressure fluid to the one ends of said motor and vacuum operating cylinder, separate valve operating conduits respectively interconnecting said source and said valves for reversing the operation thereof, separate pilot valves in said valve operating conduits to initiate when actuated the flow of pressure fluid therethrough to operate the respective fourway valve, and separate exhaust pilot valves in said valve operating conduits to exhaust when actuated respectively the pressure fluid from said valve operating conduits.

2,610,580
DUPLICATING DEVICE
Donald J. Burke, Kenmore, N. Y., assignor of one-fifth to Arnold M. Whitmer, Fredonia, N. Y.
Application September 23, 1949, Serial No. 117,435
13 Claims. (Cl. 101—131)
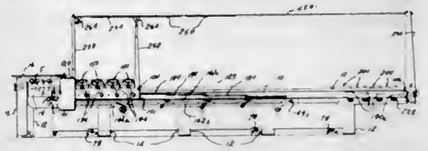


1. In a device of the kind described, two pivotally-connected parts relatively movable and movable together as a unit, one of said parts being in the form of a hollow head having an opening in its peripheral wall and the other being an elongated tubular element having one end entered in said head through said opening and pivotally connected thereto, said elongated tubular element containing a transfer-inducing liquid and having a liquid-escape passage through said entered end, a resilient valve between the entered end of said elongated tubular element and the peripheral wall of said hollow head forward of said end to normally close said liquid-escape passage and simultaneously maintain said pivotally-connected parts in a normally predetermined relation to prevent feeding of the transfer-inducing liquid, a moistening element carried by said hollow head and positioned underneath said resilient valve and forward of the axis of the pivots connecting said parts so that said hollow head is caused to swing on its pivot out of its normal predetermined relation with said elongated tubular element and open said liquid-escape passage to supply said moistening element with liquid when said moistening element is pressed against and moved over a surface to be moistened, said resilient valve serving to swing said hollow head into its normal position when the pressure against said surface is relieved, and a pressure element in rear of said moistening element having its axis in planes forward of and beneath the pivots connecting said two parts together so that said two parts remain in their normally predetermined relation under pressure exerted by said pressure element against a master sheet or card and said liquid-escape passage remains closed.

2,610,581
MULTICOLOR PROOF PRESS
David D. Vandercook, Evanston, Edward O. Vandercook, Kenilworth, and Raymond L. Pelland, Chicago, Ill., assignors, by mesne assignments, to Vandercook & Sons, Inc., Chicago, Ill., a corporation of Delaware
Application March 22, 1947, Serial No. 736,496
14 Claims. (Cl. 101—208)

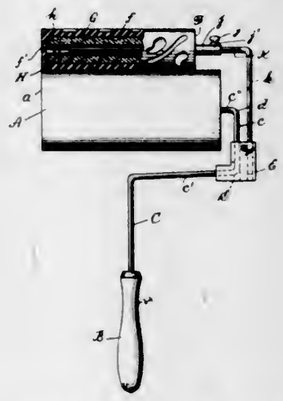
5. In a printing press having a bed, a carriage reciprocably movable on said bed, an inking roller journaled on said carriage and means for applying ink to said inking roller at one position of said carriage, the improvements of a driving

chain positioned along said bed, power means for moving said chain, a sprocket journaled on said carriage and engageable with said chain, means connecting said sprocket and said inking roller in driving relation, and means for energizing



said power means when said carriage is located at said one position, whereby said inking roller is driven by said chain in said inking position and rolls on said chain as a rack when said carriage traverses said bed.

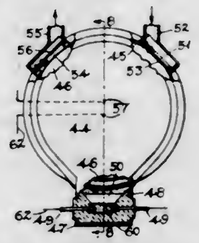
2,610,582
DESIGN ROLLER
Abraham Sprung, Brooklyn, N. Y.
Application August 9, 1951, Serial No. 241,004
5 Claims. (Cl. 101—329)



1. In combination, a coating device including an applicator roll, a handle, and a connecting shank structure, said shank structure including an offset portion defined by right angle bends, said offset portion lying laterally of the roll, an auxiliary coating roll including an outer tubular applying member, a core removably positioned in said tubular member and formed with an axial bore and a bracket assembly connecting said auxiliary roll and one of the angular portions defining the offset of said shank, said bracket assembly including a pair of angular plates having registering grooves for embracing an angle portion of said offset, additional registering grooves in said plates forming a vertical slot therein, and an L-shaped arm having one leg adjustably secured in said vertical slot in said bracket plates and the other leg extending into the bore formed in the core of said auxiliary coating roll.

5. In combination, a coating device including an applicator roll, a handle, and a connecting shank structure, said shank structure including an offset portion lying laterally of said roll, a coating roll including an outer tubular applying member, a core removably positioned in said tubular member and formed with an axial bore, and a bracket for supporting the coating roll for adjustment axially of the applicator roll, said bracket including an arm adjustably clamped to said shank for varying the pressure contact between the coating roll and applicator roll.

2,610,583
ELECTRICAL IMPULSE DEVICE
Monroe E. Miller, Washington, D. C.
Application October 11, 1950, Serial No. 189,607
5 Claims. (Cl. 103—52)



1. An electrical impulse device comprising an envelope containing an inert gas, a loose condensed vaporizable substance therein, a pair of electrodes in said envelope providing a spark gap so arranged as to heat at least some of said substance by the flow of electrons across said gap, and an impulse-transmitting medium arranged to be affected by gas pressure in said envelope.

2,610,584
RAIL FOR TRANSPORTING HANGERS OR CARRIAGES AND SWITCHES THEREFOR
Caesar A. Calder, Verona, N. J.
Application May 26, 1950, Serial No. 164,399
9 Claims. (Cl. 104—101)



4. In combination, a tubular rail, a member attached to one end of said rail and provided with a stud extending in the direction away from the rail and being coaxial therewith, a tubular switch rail having one end receiving said stud, a sleeve fixed within said end of said switch rail, and said stud being journalled in said sleeve, a collar on the outer end of said stud and a spring interposed between said collar and said sleeve, a pin attached to said member and being offset from said stud, and a pin fixed to said sleeve and being offset from said stud and overlapping the first pin, and being adapted to contact said first pin upon rotating said switch rail and sleeve relative to said stud, said pins having rounded ends so that upon rotating said switch rail and said sleeve relative to said stud, the pin on the sleeve may bypass the pin on said member, thereby causing the switch rail to move longitudinally of the stud and compressing said spring, and a second pin fixed to said member and spaced from the first pin thereof and adapted to be contacted by the pin on said sleeve to limit angular movement of said switch rail and said sleeve relative to said stud.

2,610,585
LOCOMOTIVE STRUCTURE
Winston A. Brecht, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 7, 1947, Serial No. 778,409
8 Claims. (Cl. 105—175)

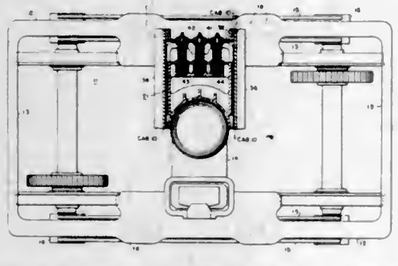
1. In a locomotive structure, in combination, at least three swivel trucks for supporting a locomotive cab, each truck having a swiveled and

laterally movable cab supporting member, including means for restraining each truck in a longitudinal direction with respect to the cab, said locomotive cab having an underframe rest-



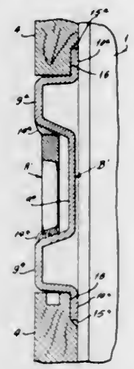
ing directly on said supporting members, and resilient means on said cab engaging the cab supporting member for the end trucks for restraining the lateral movement of the end trucks relative to the cab.

2,610,586
LOCOMOTIVE TRUCK
Frank L. Alben, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 10, 1950, Serial No. 137,736
4 Claims. (Cl. 105—189)



1. In a railway vehicle, the combination comprising: a plurality of trucks; a separate load-carrying carriage associated with each of said trucks; a vehicle-underframe resting on the load-carrying carriages of a series of at least three such trucks, including two end-trucks and at least one intermediately disposed truck; a center-pin assembly for swivelly guiding each load-carrying carriage on its truck without taking any substantial weight on the pin; horizontal weight-carrying thrust-engagement means, disposed laterally of, and separate from, the center-pin assembly, for transmitting the vertical load of each load-carrying carriage to its truck, while permitting the carriage to swivel on the center-pin with respect to the truck; other horizontal weight-carrying thrust-engagement means, disposed substantially straight above the previously mentioned horizontal weight-carrying thrust-engagement means, for transmitting the vertical load of the vehicle-underframe to the several load-carrying carriages, while permitting said carriages to move laterally with respect to the vehicle-underframe; guide-means carried by said vehicle-underframe for constraining each of said carriages to a substantially rectilinear translational movement laterally with respect to said vehicle-underframe, said guide-means permitting said carriage to move laterally with respect to said underframe so that each of the carriages which support said underframe has some freedom of a limited amount of lateral motion, said guide-means substantially preventing longitudinal swiveling motions of the carriage relative to the vehicle-underframe; and separate lateral restraint resilient means, disposed between the respective carriages of at least each end-truck and the vehicle-underframe, for restraining the relative lateral movements of said carriages with respect to the vehicle-underframe.

2,610,587
FREIGHT VEHICLE SIDE WALL WITH ANCHORING MEANS FOR LADING STRAPPING
Frank H. Pletzsch, Clayton, Mo., assignor to Western Railway Equipment Company, St. Louis, Mo., a corporation of Missouri
Application February 3, 1949, Serial No. 74,415
3 Claims. (Cl. 105—369)



1. In a freight vehicle side wall construction including side posts and lining boards secured to the side posts and spanning the spaces therebetween, a channel member disposed in the plane of and substantially coextensive with the lining boards and secured to the side posts between two adjacent lining boards, said channel member having a central channel opening in the plane of the lining boards and inverted hollow ribs along opposite sides of said central channel, said channel member having rib flanges lapping the lining boards to close the vehicle side wall along both sides of the member and further having a width and thickness corresponding to the width and thickness of the lining boards for interchangeability therewith, and a plurality of anchor members for lading strapping rigidly mounted in said central channel in longitudinally spaced relation, the ends of said anchor members being secured to said inverted hollow ribs along opposite sides of said central channel, and each of said anchor members being formed to have opposite flattened faces with one of said flattened faces parallel to and spaced from the bottom surface of the central channel.

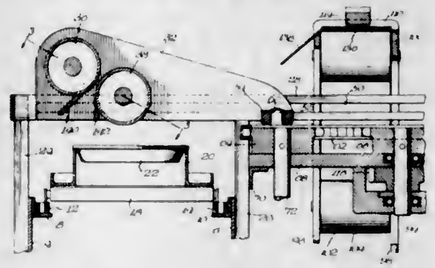
2,610,588
ARTICLE FOR DECORATING CAKES
Carl Egard Seagren and Philip W. Mowll, Brooklyn, N. Y., assignors to Carl Seagren Enterprises, Brooklyn, N. Y., a partnership of New York
Application September 26, 1946, Serial No. 699,368
1 Claim. (Cl. 107—7)



As an article of manufacture, three-dimensional, edible decorations for application to an edible article, such as a cake; comprising a piece of sheet material having an upper and lower surface, the upper surface of said piece being provided with a layer of colored, gelatin substance, opposite flaps forming end parts of said piece and providing handles for manipulating said piece for transfer of said layer from said piece of sheet material onto the surface of said edible article, and a support having opposite ends and

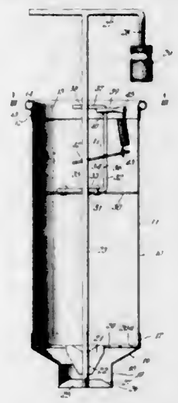
of uniform cross-section, said support being substantially coextensive with and abutting against a major portion of the lower face of said piece of sheet material, said opposite flaps extending in contact with and around the ends of said support and in abutment with the under face thereof for retaining said piece of sheet material with said layer in taut condition on said support during storage.

2,610,589
CRUST ROLLING APPARATUS
Lloyd J. Harriss, Kenilworth, and Bernard Lambers, Oak Park, Ill.; said Lambers assignor to said Harriss
Application February 8, 1947, Serial No. 727,376
11 Claims. (Cl. 107—12)



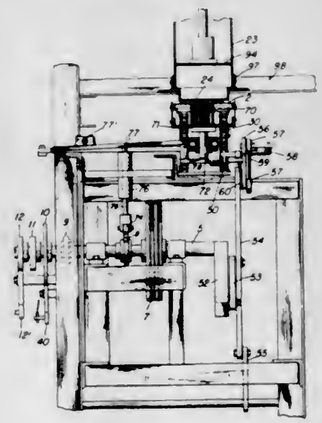
10. Apparatus for supplying a dough sheet component for a pastry product to a receptacle therefor, comprisng means for forming a mass of dough into a sheet, a stationary dough receiving position and a sheet dispensing position in spaced relation, means for moving said sheet forming means between said receiving and dispensing positions, means to actuate said sheet forming means as it is being moved to depositing position, whereby the sheet will be formed and deposited on the receptacle when the sheet forming means reaches depositing position.

2,610,590
DOUGHNUT CUTTER
Walter Andrew Van Campen, Chicago, Ill., assignor to Van Camp Donut System, Inc., Chicago, Ill., a corporation of Illinois
Application October 20, 1949, Serial No. 122,477
8 Claims. (Cl. 107—14)



1. An apparatus for extruding doughnuts comprising a casing having an opening at one end and adapted to receive a quantity of batter, a valve for closing said opening at said one end of said casing, a rod for effecting movement of said valve, a backing plate movable within said casing for exerting pressure on said batter and slidably receiving said rod, a bracket carried by said plate and slidably receiving said rod, means slidably carried by said bracket and said rod for grippingly engaging said rod upon movement of the same to open said valve, and a lost-motion linkage between said last-mentioned means and said bracket for accommodating movement of said rod to open said valve a predetermined distance before causing movement of said plate to exert pressure upon said batter.

2,610,591
MACHINE FOR DEPOSITING CANDY ICING ON CARDS
Anthony W. Krieg and Joseph Mayer, Brooklyn, N. Y., assignors to Cypress Novelty Corporation, Brooklyn, N. Y., a corporation of New York
Application August 17, 1948, Serial No. 44,623
6 Claims. (Cl. 107—27)

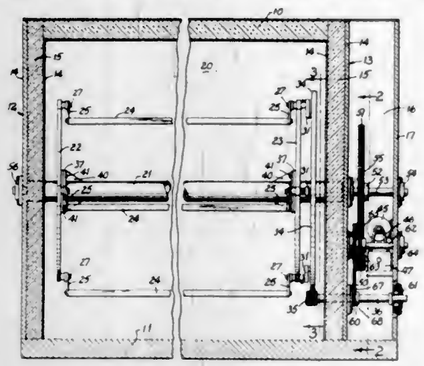


1. A machine for forming icing ornaments on cards comprising tracks for supporting cards, a conveyor having cross bars for moving the cards along the tracks, a receptacle for containing icing having die openings mounted above said conveyor, said tracks having a section beneath said die openings movable to and from the die openings for lifting cards to said die openings, means for depositing icing in the form of ornaments onto cards supported on said movable section and means for gripping marginal portions of said cards while on said movable section and withdrawing the cards with the deposited ornaments from the die openings.

2,610,592
ROTARY OVEN ASSEMBLY
Carl K. Dorsey, Webster Groves, Mo.
Application July 26, 1950, Serial No. 176,040
15 Claims. (Cl. 107—59)

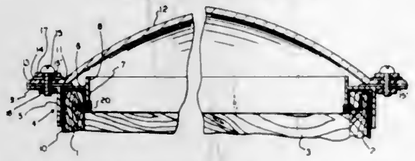
1. In a rotary oven of a stabilized-shelf type, a rotatable shelf-supporting structure, means acting responsively to rotation of said structure to stabilize the shelves, said means including a stabilizing rotor eccentrically related to said struc-

ture, a shaft arranged for locating the stabilizing rotor, and power means acting independently of



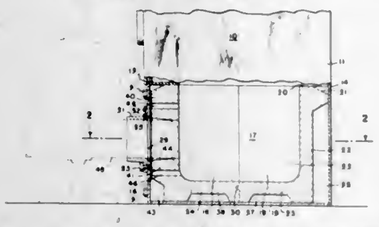
the shelf-supporting structure for driving said shaft.

2,610,593
SKYLIGHT CONSTRUCTION
Max Wasserman, Chestnut Hill, Mass.
Application November 3, 1950, Serial No. 193,897
5 Claims. (Cl. 108—16)



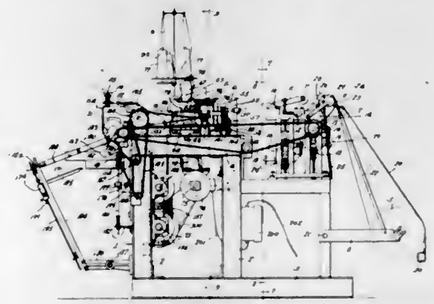
2. A skylight construction for a building opening having a raised sill about the periphery of said opening, comprising a covering frame for said sill having a downwardly extending flange about the outer side of the sill and an upwardly extending flange of said covering frame at its inner side, said covering frame also having a flange extending outwardly of said covering frame, a preformed plastic dome-shaped cover having a marginal flange coextensive and fitting to the outwardly extending flange, means securing said cover at its marginal flange to the outwardly extending flange and means securing said covering frame to the sill.

2,610,594
COMBUSTION CHAMBER FOR DOMESTIC OIL BURNERS AND THE LIKE
John N. Hauck, Red Hill, Pa., assignor to Columbia Boiler Company, Pottstown, Pa., a copartnership
Application January 19, 1951, Serial No. 206,857
1 Claim. (Cl. 110—86)



In a boiler having a plurality of vertical side walls, a combustion chamber casing of refractory material at the lower portion of said walls, said combustion chamber casing being open at the top for delivery of combustion gases to the boiler and having a front wall with an opening therethrough for the reception of a burner, a front wall plate exteriorly disposed with respect to the front wall of said combustion chamber casing and having an opening therethrough for the burner, the interior diameter of said casing opening being greater than the exterior diameter of said burner to provide an air passageway, the front wall of said combustion chamber casing having portions thereof spaced from said front wall plate to provide an air passageway in communication with said first mentioned air passageway, a burner supporting member having a cylindrical portion for supporting engagement with the burner and having a flange portion extending outwardly from said cylindrical portion and secured to said front wall plate, said flange portion having an inner face in engagement with said front wall plate, said inner face having a plurality of grooves extending outwardly to provide air passageways in communication with said first mentioned passageway and said front wall of said combustion chamber casing having a plurality of openings therethrough in communication with the interior of said combustion chamber casing in spaced relation to said burner opening and in communication with said second mentioned passageway.

2,610,595
INDUSTRIAL BAG STRINGING MACHINE
Edward E. West, Richmond, Va.
Application May 13, 1948, Serial No. 26,861
24 Claims. (Cl. 112—2)

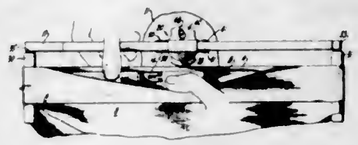


1. In a bag stringing machine, the combination of a rod for folding a hem in a continuously fed web of material, a disc having a cutter blade on the periphery thereof operative transversely of the direction of feed of the material, and means for rotating said disc to enable said cutter blade to form notches in the folded edge, means for completing the folded edge into a hem, and stringing means including a pair of members for conveying string under the folded and hemmed edge, means for stitching the hem with the string therein, a roller having cutting means thereon for severing the hemmed web at the notches and severing the string, and means for forming the severed portions of said web into bag blanks; and means for synchronizing and operating in timed relation all of said means.

2,610,596
APPARATUS FOR ATTACHING ELASTIC BANDS TO GARMENTS
Anton Zygmunt, Oakland, Calif.
Application November 3, 1950, Serial No. 193,818
3 Claims. (Cl. 112—2)

3. A sewing machine having a sewing head provided with a reciprocating needle, said head being

disposed over and supported by a bed plate, said bed plate having a tapped hole located adjacent the path of travel of the needle, a pair of arms arranged in overlapping relationship and disposed transversely over the bed plate, clamping means slidably receiving the arms permitting the outer ends of the arms to be moved toward or away from one another and operable to clamp-



ingly engage and lock the arms in adjusted positions, a roller for each arm, the rollers being rotatably mounted on the outer ends of the arms for rotation about parallel axes and adapted to receive an endless band thereabouts and position the band to pass beneath the needle, and means receivable by the threaded hole in the bed plate for mounting the clamping means on the said bed plate.

2,610,597
WORK SUPPORTING AND GUIDING DEVICE FOR SHOE SEWING MACHINES
Lillian P. Simmons and Frank J. Connova, Chicago, Ill.
Application October 2, 1948, Serial No. 52,544
6 Claims. (Cl. 112—62)



1. A unitary work supporting and welt-guiding plate for use on a shoe sewing machine comprising a member provided with a relatively flat upper surface having an elongated needle aperture provided with infeed and outfeed ends extending through said member, a first abutment positioned on one side of said needle aperture extending in a direction transverse of said plate, a second abutment positioned in opposed relation to said first abutment located on the opposite side of said needle aperture, said second abutment extending in spaced relation to said first abutment and terminating opposite to a position intermediate the central portion and the outfeed end of said elongated needle aperture, the heights of each of said opposed abutments being substantially the same and progressively increasing in one direction from the central portion of said elongated needle aperture to the extremities thereof, and the height of said first abutment being substantially constant throughout its length in the opposite direction from said central portion of the elongated needle aperture.

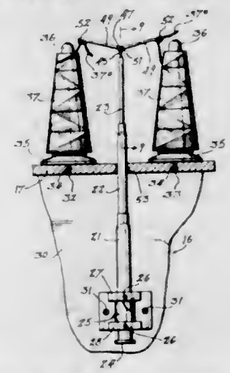
2,610,598
TUFTING NEEDLE
Beatrice H. Midas, Chicago, Ill.
Application September 15, 1947, Serial No. 773,959
4 Claims. (Cl. 112—80)

1. A tufting device comprising a hollow cylindrical needle having an upper body portion and a lower piercing portion, a pair of aligned yarn eyes at opposite ends of said needle and aligned longitudinal threading slots in said body and piercing portions; a slidable holder mounted on the body portion of said needle for varying the effective length of the piercing portion of said needle, a sleeve fixed within said holder, said needle being normally freely rotatable within said sleeve, said holder and said sleeve having aligned longitudinal slots disposable in alignment with the threading slots of said needle whereby the threading slots of said needle may be rotated out of alignment with the respective aligned slots



of said holder and said sleeve, after threading the needle with yarn to prevent the inadvertent dislodgement of the yarn, a slotted collar fixed at the upper end of said holder with its slot in alignment with the slots in the holder and the sleeve, and a set screw carried by said collar and movable to lock the needle in adjusted position against movement relative to said sleeve and collar.

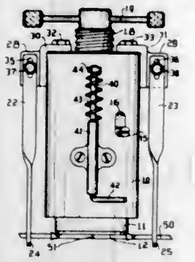
2,610,599
COLLAPSIBLE THREAD FEEDING APPLIANCE FOR SEWING MACHINES
Robert Picciano, Bronx, and Irving Abramowitz, Brooklyn, N. Y.
Application January 12, 1951, Serial No. 205,756
9 Claims. (Cl. 112—218)



1. A thread supply attachment for a home sewing machine of the type including a lowerable head, a main body having a table top provided with a main opening through which said head may be lowered, and an extension leaf hingedly connected to said table top for being swung to lie over the latter following lowering of said head, comprising, in combination with means incorporating three holes in said table top, one of said holes extending all the way through said table top and said main body having therein a compartment extending downwardly below the last-named hole, a cone carrier having a dependent projection for downward insertion in either of said holes other than the said last-named one, said carrier including a portion about which the lower end portion of a thread cone is fittable to dispose said cone upright above said

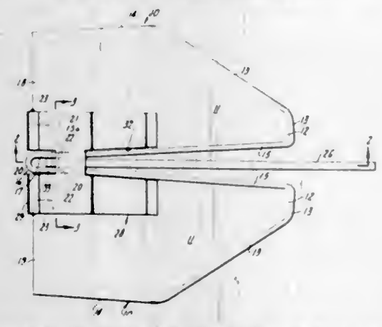
support when said projection is inserted in said hole, an adjustable stand including a plurality of telescopically relatively movable sections, a thread guiding means at the upper end portion of said stand, and means for anchoring the lower end portion of said stand in said compartment to secure the stand for vertical upward erection through said last-named hole.

2,610,600
PORTABLE SAW WELDING CLAMP
Earl F. Spencer, Vancouver, British Columbia, Canada
Application May 7, 1948, Serial No. 25,551
1 Claim. (Cl. 113—99)



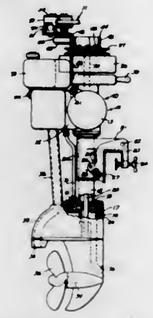
A portable saw welding clamp comprising a housing open at one end and closed at its opposite end, a heavy plunger anvil slidably mounted in the housing and projecting outwardly from one end thereof, said plunger anvil having a flat outer face lying substantially at right angles to the axis thereof, brackets at opposite sides of the housing, each bracket having a lug overlapping and pivotally connected to the closed end of the housing, a clamping arm for each bracket, each arm having a longitudinal slot adjacent one end, a bolt extending through each bracket and the slot of an arm for adjustably and hingedly connecting said arm to the bracket, said arms extending beyond the end of the housing from which the plunger anvil projects, hooks on the free ends of the arms, said hooks extending in the same direction substantially parallel to each other and being adapted to fit over an edge of a saw blade resting flat against the outer face of the plunger anvil, and means for moving the plunger anvil against a blade held by the hooks.

2,610,601
ANCHOR
Thomas R. Gardiner, Piedmont, Calif.
Application November 4, 1946, Serial No. 707,556
5 Claims. (Cl. 114—208)



1. An anchor comprising a pair of fluke blades lying generally in a common plane, a pair of arms at the rear of said blades integral with each other and with said blades, a pin extending through said arms and having slotted ends fitting over said blades and secured thereto, the slot in one pin end being substantially longer than the slot in the other end, and a shank pivotally mounted on said pin between said arms and blades.

2,610,602
OUTBOARD MOTOR WITH AUXILIARY SERVICE PUMP
Harold E. Schenavar, Detroit, Mich.
Application July 1, 1948, Serial No. 36,553
2 Claims. (Cl. 115—17)



1. In combination with an outboard boat motor having a water-jacketed engine with a vertically-disposed propeller shaft drivingly connected thereto and an engine cooling pump drivingly connected to said shaft and having a cooling water discharge conduit connected to the water jacket of said engine and a suction conduit; a bilge pump drivingly connected to said shaft independently of said cooling pump and having bilge water suction and discharge conduits disposed independently of and free from connection with said cooling water suction and discharge conduits.

2,610,603
SIGNAL ARM
Masick C. Magarian, Fresno, Calif.
Application July 25, 1950, Serial No. 175,821
2 Claims. (Cl. 116—48)

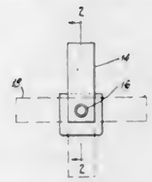


1. In a signal which includes a tubular signal arm of light transmitting material having a substantially vertical side wall, and an electric globe mounted to project light into the arm from one end thereof; a multiplicity of prism forming light catching and deflecting nubs projecting laterally in from said side wall in rows spaced lengthwise of the wall and extending transversely thereof and disposed to catch and deflect light from the globe laterally out through the side wall in a substantially horizontal direction; each row of nubs being disposed in a circular line concentric to the axis of the globe.

2,610,604
SIGNALING DEVICE
Frank Edwards, San Francisco, Calif.
Application November 20, 1951, Serial No. 257,267
1 Claim. (Cl. 116—132)

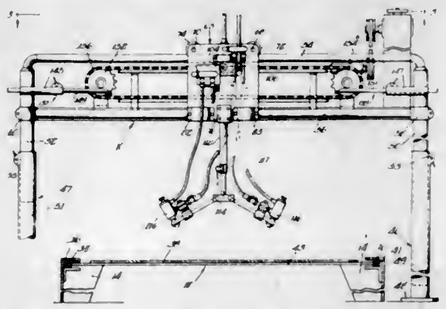
A signal device of the character described, consisting of a metal U-shaped clip having a first

and second leg thereon, the first leg depending from the common U base below the second leg, the second leg having an aperture centrally thereof, a portion of the first leg being extruded to provide a raised bearing surface on the first



leg concentric with said aperture; a flexible, colored, plastic signal arm; and a circular rivet concentric with said aperture and with said bearing surface and mounting the signal arm near one end thereof for rotation on said extruded portion.

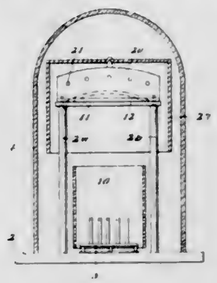
2,610,605
AUTOMATIC AIR PAINTING UNIT WITH TRANSVERSE OSCILLATING ACTION
Jens A. Paasche, Chicago, Ill.
Application July 30, 1948, Serial No. 41,584
14 Claims. (Cl. 118—7)



1. An oscillatory mechanism comprising a track mounted on a support, a carriage translatably mounted on said track, a valve member mounted on said carriage, said valve member including a valve stem and a valve head, shoulder means on said carriage for engaging a stud member, individually adjustable means vertically displaced only slightly from the line of movement of said valve stem and valve head and mounted at each end of said tracks for operating said valve member, and means for oscillating said carriage including continuous drive means mounted over the periphery of a plurality of wheels, means to rotate said wheels, and a stud member mounted on said drive means and coacting with said shoulder means on said carriage for imparting an oscillatory movement thereto upon rotation of said wheels.

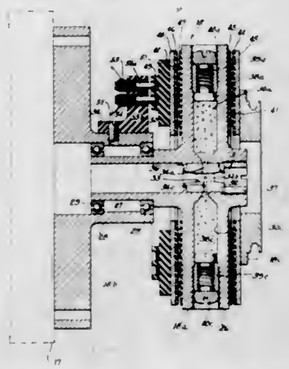
2,610,606
APPARATUS FOR THE FORMATION OF METALLIC FILMS BY THERMAL EVAPORATION
Ernst Weber, Mount Vernon, and Stanley A. Johnson, New York, N. Y., assignors to Polytechnic Institute of Brooklyn, Brooklyn, N. Y., a corporation of New York
Original application September 26, 1946, Serial No. 699,546. Divided and this application February 24, 1949, Serial No. 78,164
3 Claims. (Cl. 118—49)

1. In thermal evaporation apparatus, the combination of a bell jar having a base plate, a vaporizing filament supported on said plate in the lower part of said jar, a plurality of vertical rods supported on said plate within said jar and having their upper ends located in a common plane, a carrier jig removably supported upon the upper ends of said rods and including a curved carrier supporting structure having its center of curvature located substantially at the location of said vaporizing filament, a heater unit comprising an inverted metallic box positioned



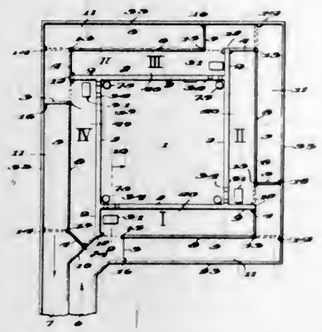
above said carrier jig and having the open edge thereof resting upon said jig, whereby said box entirely surrounds said carrier supporting structure of said jig, a heater element mounted within said box above the said carrier supporting structure, and a metallic cylinder closed at its upper end and being removably supported upon said metallic box with the open end thereof extending downwardly to surround and enclose said carrier jig and said heater unit.

2,610,607
DEVICE FOR COLOR CODING INSULATED CONDUCTORS
Hans D. Isenberg, Wilmette, Ill.
Application July 26, 1949, Serial No. 106,825
19 Claims. (Cl. 118—412)



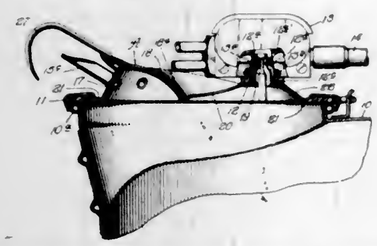
1. In apparatus for color coding an insulated conductor which comprises means for moving the conductor longitudinally, a device for forming a coding stripe on the moving conductor, comprising, in combination, means defining a reservoir for the coding material, a bushing having a central opening of fixed size adapted to encircle said insulated conductor as said insulated conductor is moved through said opening, said bushing having a stripe forming port through the wall thereof for transmitting the coding material from said reservoir to the surface of said insulated conductor, and means for rotating said bushing about said insulated conductor with said port in communication with said reservoir.

2,610,608
MILKING BARN
Roy R. Graves, Valparaiso, Ind., assignor, by direct and mesne assignments, to The Graves-Stambaugh Corporation, a corporation of Delaware
Application October 23, 1947, Serial No. 781,602
9 Claims. (Cl. 119—14.03)



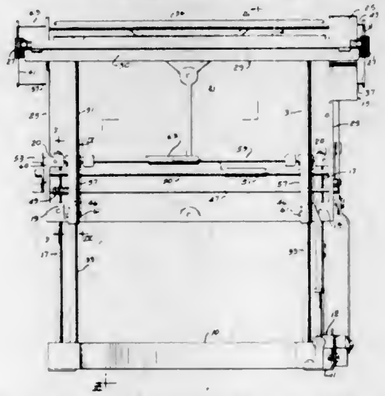
1. A milking parlor for plural milking of cows by a single operator comprising, a substantially square room having barrier walls and a floor for accommodating the cows to be milked, a substantially square operator's pit in the center of the floor for accommodating the operator at substantially eye level with the udders of the cows, four cow stalls supported on the floor with a cow stall located at each edge of the operator's pit and extending beyond the edge of the operator's pit to overlap a portion of the next succeeding cow stall, each cow stall including an inner barrier at the edge of the pit, an outer barrier spaced from the inner barrier to accommodate a cow therebetween, an entrance gate and an exit gate, the outer barriers of the cow stalls being spaced from the barrier walls of the substantially square room to provide a normally uninterrupted cow passage about the cow stalls, the entrance and exit gates of the cow stalls being hinged at the outer barriers of the cow stalls to be swung outwardly into the cow passage toward the barrier walls of the substantially square room for directing cows in a single direction in the cow passage and into and out of the cow stalls, and mechanism operatively associated with the entrance and exit gates and controlled from the operator's pit for individually opening and closing the entrance and exit gates of each cow stall.

2,610,609
SUSPENDED MILKER
Chester A. Thomas, Lake Forest, Ill., assignor to Babson Bros. Co., a corporation of Illinois
Application February 18, 1948, Serial No. 9,088
8 Claims. (Cl. 119—14.54)



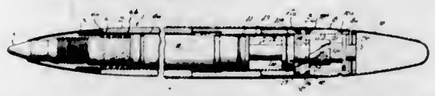
1. A lid for a suspended milker, comprising a rear portion having connector nipples mounted therein and opening therethrough, said connector nipples being generally tubular and having their axes at a small angle to the general plane of the lid, the lid having a portion in which the nipples are mounted so inclined to said general plane that the axes of the nipples are substantially perpendicular thereto, and a front portion having a vacuum passageway opening therethrough, said lid having a configuration to provide a downwardly extending drip ring around said passageway, the lid sloping gradually from the portion in which the nipples are mounted to the drip ring to provide easy cleaning access to said nipples and the undersurface of the lid thereabout.

2,610,610
COPYHOLDER
Stephen Sattler, Tulsa, Okla.
Application January 23, 1951, Serial No. 207,352
12 Claims. (Cl. 120—32)



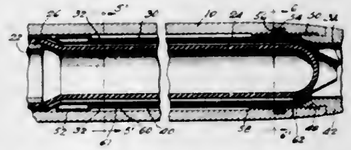
1. A copy holder comprising a base, a copy holder frame, a plurality of support and guide members supporting and guiding said frame for vertical movement with respect to said base, and releasable means holding said copy holder frame in position on said support and guide members in extended relation with respect to said base including a pivoted detent rod on said frame, spring means urging said detent rod into interengagement with said support and guide members, and manually operated means operable to move said detent rod into a released position with respect to said support and guide members.

2,610,611
WRITING INSTRUMENT
Lynn P. Martin, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application November 12, 1948, Serial No. 59,587
2 Claims. (Cl. 120—42.03)



1. A writing instrument comprising a first body member including a barrel having a forward writing point end and an opening therethrough and including a collar on the rearward end thereof, a writing unit including a writing point located substantially within said barrel and slidable therein to a point retracted position and to a point projected position, a second body member slidably mounted on a rearward end of said first body member for normal movement of said unit to point projecting position, said collar being interposed between said first and second body members and having a forward latch-engaging surface, a first spring urging said writing unit and said second body member rearwardly toward point-retracting position, a latch pivotally secured to said second body member having a rearward collar-engaging surface for retaining said writing unit and said second body member in point-projected position, a second spring urging said latch inwardly toward collar-engaging position, said latch having a forwardly inclined surface permitting the latch to ride over said collar upon forward movement of said second body member with respect to said first body member, means defining a continuous groove in said collar providing a passageway for said latch and permitting disengagement of said rearward surface of said latch from the forward surface of said collar, said first and second body members being also mounted in axially rotatable relationship whereby to move said latch into registry with said passageway.

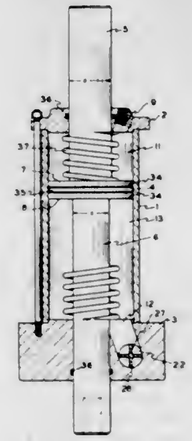
2,610,612
WRITING INSTRUMENT
Lynn P. Martin, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a corporation of Delaware
Application March 11, 1949, Serial No. 80,931
6 Claims. (Cl. 120—47)



5. In a fountain pen, the combination of a barrel, an ink sac disposed within the barrel, ink feed means supporting said ink sac secured to a forward end of said barrel, a tube telescopically slidable within said barrel adapted to form a chamber about said sac, said tube being open at its forward end to receive said sac and closed at its rearward end to prevent venting of said chamber through said rearward end, an annular air flow restricting means positioned between said tube and said barrel and secured to said barrel adjacent the rear end thereof, means defining an inwardly extending deformation adjacent the rear end of said tube adapted to span said air flow restricting member whereby said chamber is freely vented to the atmosphere between said barrel and said tube when the latter is positioned in a forward position, means in the forward end of said tube for by-passing said air flow restricting member and venting said chamber when said tube is in a rearward position, means cooperating between the rearward ends of said barrel and said tube for securing said tube in said forward position, and means between said last mentioned means and said air flow restricting means forming a vent in said barrel.

2,610,613
AIR OPERATED IMPACT PRESS
Ray W. Bryant, Jackson, Mich., assignor to Air Hydraulics, Inc., Jackson, Mich., a corporation of Michigan
Application December 23, 1947, Serial No. 793,544
1 Claim. (Cl. 121—38)

A pneumatic power impact machine tool comprising a cylinder having air line pressure connections at opposite ends, a piston in said cylinder for reciprocation therein by differential air pressure on opposite sides thereof, closure structure for the ends of said cylinder having apertures therein, rods of different diameter extending from opposite sides of said piston axially of said cylinder through said apertures to provide said cylinder with differential effective surface areas upon opposite sides thereof, a coiled compression spring embracing the rod of larger diameter and disposed between said piston and the closure structure for one end of said cylinder to space said piston from one end of said cylinder to provide a storage chamber for air pressure and to store up energy against the side of said piston of lesser effective area, a similar spring embracing said rod of smaller diameter to act as a buffer upon being engaged between said piston and the closure structure for said cylinder, conduit structure

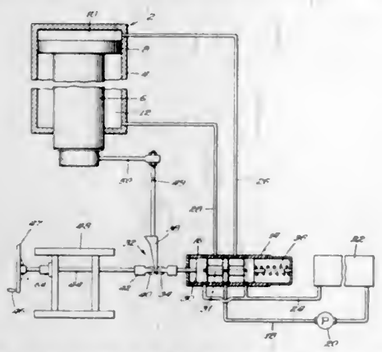


attached to said connections for simultaneously conducting air under said line pressure to said cylinder upon opposite sides of said piston to move said piston into a position compressing said spacing spring due to said differential effective surface areas, exhaust structure for the rapid removal of air pressure from the end of said cylinder in which said buffer spring is disposed, and valve means associated with said conduit and exhaust structure for exhausting air from one side of said piston only to enable the air pressure in that portion of the cylinder in which said spacing spring is located to rapidly expand and move said piston, aided by the stored energy of said spacing spring, to impart high velocity movement to said piston into engagement with said buffer spring, that portion of said conduit structure connecting with said storage space continuously connecting line air pressure with said storage space.

2,610,614
SERVO CONTROL FOR FLUID MOTORS
Robert K. Sedgwick, Oak Park, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application July 25, 1947, Serial No. 763,465
4 Claims. (Cl. 121—41)

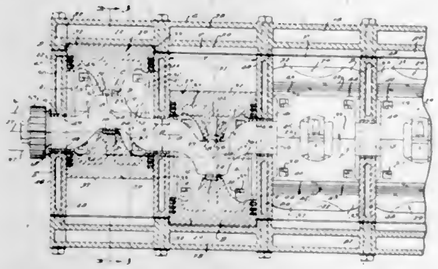
1. In an operating circuit for an hydraulic motor having cylinder means including advance and return chambers, and having ram means presenting advance and return pressure areas in respective chambers to be acted on by pressure fluid therein; the combination of a source of hydraulic pressure fluid, valve means connected to

said source and to said cylinder means, said valve means being adapted in one operating position thereof to deliver fluid from said source to said advance chamber and to exhaust fluid from said return chamber, and said valve means being adapted in another position thereof to deliver fluid from said source to said return chamber and to exhaust fluid from said advance chamber, spring means operatively connected to said valve means for yieldingly urging the same to one of said positions thereof, an actuating member connected to said valve means for actuation thereof against the resistance of said spring means, an operating member spaced from said actuating member, a control member movable



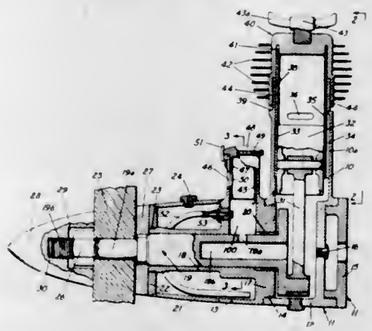
with said ram means and having an operative connection with said actuating and operating members, said connection comprising a casing and a flowable, substantially noncompressible medium confined by the casing and contacting said members, said flowable medium being characterized by ball-like elements of greater size than the maximum clearance between the control member and an opening in the casing receiving said control member, said control member being movable into the casing as said ram moves on advance stroke thereof, and means for moving said operating member toward and away from the actuating member, whereby the valve means is actuated to one of said positions thereof in response to movement of said operating member.

2,610,615
ENGINE
John P. Butterfield, Grosse Pointe Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 24, 1948, Serial No. 16,645
1 Claim. (Cl. 123—56)



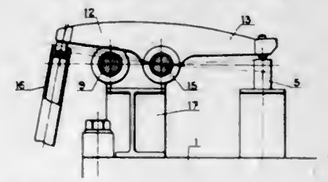
In an engine of the double acting type, in combination; a cylinder block structure having a cylinder bore extending therethrough that is of uniform diameter throughout its length, said cylinder block structure being formed with a pair of crankshaft-receiving bearing openings on opposite sides of said bore that are disposed on an axis perpendicular to the axis of said cylinder bore, a rotatable crankshaft structure having coaxial bearing portions rotatably supported in said block bearing openings and having a crank portion located between and offset from said bearing portions and of such size and shape as to be continuously disposed within said cylinder bore during rotation of the crankshaft, a double ended piston mounted in said cylinder bore for reciprocation lengthwise thereof, said piston having an intermediate body structure connecting the piston end portions that is formed with a first pair of diametrically disposed, axially extending slots arranged so as to receive said crankshaft structure and accommodate reciprocation of the piston relative to said crankshaft bearing portions, said piston intermediate body portion having a second pair of diametrically disposed, axially extending slots spaced approximately ninety degrees circumferentially from said first pair of slots, said piston having an interiorly supported slideway extending transversely of said piston and bore length and aligned with said second pair of slots, a bearing block structure slidably mounted in said slideway and rotatably connected to the crankshaft crank portion for operably connecting said piston and crankshaft structure, said bearing block structure, said slideway, and said crankshaft crank being so constructed and arranged that the slidable bearing surfaces of the bearing block always lie within said cylinder bore during operation of the engine while any other portions of said bearing block that cut the walls of said cylinder bore during crankshaft rotation pass through said second pair of slots in the piston, engine operating mechanism superimposed on said cylinder block and contained in a chamber that extends transversely of the cylinder bore, fluid flow lubrication means for said engine operating mechanism in said chamber, and a pair of conduits formed in said cylinder block and aligned with said second pair of slots in said piston intermediate body structure, one of said conduits connecting said chamber to said second pair of slots in said piston and to said cylinder bore and the other of said pair of conduits connecting said second pair of piston slots and said cylinder bore to a lubricant receiving sump.

2,610,616
DIESEL-TYPE ENGINE FOR TOY AIRCRAFT
Kenneth O. Woodruff, Englewood, and Robert L. Krier, Walsenburg, Colo.
Application October 21, 1946, Serial No. 704,604
3 Claims. (Cl. 123—73)



2. A two-stroke cycle internal combustion engine of the compression ignition type for use in miniature aircraft comprising a crank case, a fuel tank concentric with the crank case, a hollow crank shaft extending through the fuel tank into the crank case, an air horn extending inwardly into communication with a port formed in a wall of the crank case for drawing a fuel-air mixture through the crank shaft into the crank case, a fuel nozzle in the air horn, a tube in the fuel tank connecting the inner end of the fuel nozzle with the lower portion of the fuel tank, an adjustable means for varying the quantity of air drawn through the air horn, a cylinder on the crank case imperforate except for inlet and exhaust openings, the inlet opening communicating with the crank case, a piston reciprocal in the cylinder, a connecting rod connecting the piston and the crank shaft, and means for adjusting the ignition timing and compression ratio of the engine including an imperforate cylinder head sealing the top of the cylinder, said cylinder head having a groove for slidably receiving the upper end of the cylinder and an external skirt threadedly engaging the external portion of the cylinder.

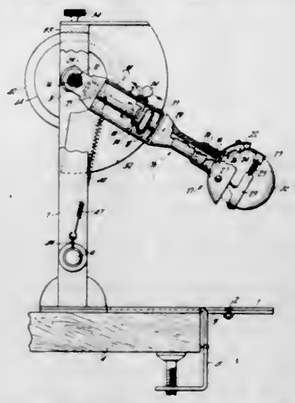
2,610,617
COMBUSTION ENGINE VALVE OPERATING MEANS
Gustav Pielstick, Saint-Germain-en-Laye, France
Application October 5, 1949, Serial No. 119,610
In France October 12, 1948
2 Claims. (Cl. 123—90)



1. In a valve operating assembly adapted for use in an internal combustion engine having at least two exhaust and two inlet valves, two separate rocker means for the actuation respectively of the exhaust and inlet valves of the engine, an individual pivot means for each one of said rockers, the axes of said pivot means being separated by a certain distance and located at the same horizontal level, and push-rod means located alongside the cylinder and adapted to act on one end of said rockers so as to cause their tilting and thereby the control of the valves by their other ends beyond the pivot axes, hose latter pivot axes being situated on said rockers substantially midway between the points of these latter acted upon by the push rods and acting upon the valves, the said rockers having each at least two arms each of which corresponds to a respective valve, the contact points of said push rods and rockers being situated on a line which is substantially parallel to the longitudinal axis of the engine and forms an acute angle with the pivot axes of said rockers, said latter axes being substantially perpendicular with respect to the general longitudinal direction of these rockers.

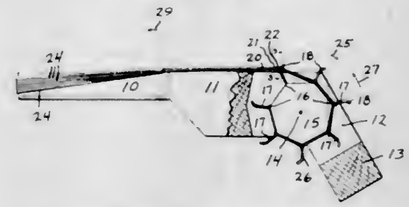
2,610,618
BALL HURLING DEVICE FOR SIMULATED BOWLING
Martin Huber, Munich, Germany
Application December 29, 1950, Serial No. 203,278
In Germany January 2, 1950
10 Claims. (Cl. 124—7)

1. In a device for hurling a toy bowling ball, the combination with a pendulous element comprising a pendulous shaft having ball-gripping means affixed to the lower end thereof; of means forming a horizontal axis from which said element is suspended and about which said element may swing freely; bearings in said element in which said shaft is freely rotatable; a spring cooperating with said element and normally maintaining it and said shaft substantially vertical but adapted to impart a rapid swinging movement to said element when said element is manually swung out of its normal position and then released; a wheel fixed to said shaft; manually



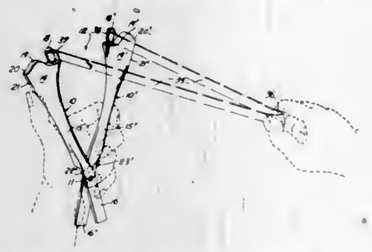
movable means at one side of said shaft and normally spaced from said wheel presenting a surface on which said wheel may roll when in contact therewith, and adapted, at the option of the operator, to be moved into frictional contact with said wheel for automatically imparting a spinning movement to said wheel, said shaft, said ball gripping means, and a ball held in said gripping means during said rapid swinging movement of said element after the release thereof; and means for automatically releasing said ball from said gripping means at a predetermined instant.

2,610,619
TOY REPEATING RUBBER BAND GUN
Ole W. Mikkelson, Jr., Sioux Falls, S. Dak.
Application October 14, 1949, Serial No. 121,299
1 Claim. (Cl. 124—19)



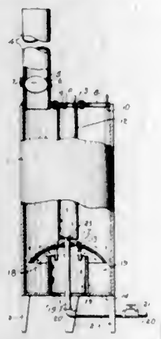
A toy repeating rubber band gun comprising a gun body having a barrel, a stiff leaf spring secured to the top of said barrel having an upturned lip, a rotatable member positioned within the gun body at the rear portion thereof, said rotatable member including a plurality of radially positioned prongs attached thereto, said prongs having arcuate portions engaging said lip whereby rotation of said prongs will raise said leaf spring to release said prongs, rubber bands engaging said prongs and the barrel end, said lip having an indented portion for receiving said rubber bands, said rotatable member being positioned so that each of said prongs provides a trigger member for discharging said rubber bands.

2,610,620
COMBINED SLINGSHOT AND ARROW CATAPULT
Donald Bean, San Jose, Calif.
Application April 2, 1947, Serial No. 738,866
4 Claims. (Cl. 124—20)



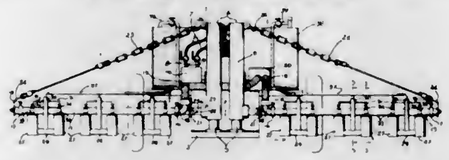
1. A missile projector comprising a pair of arms pivotally connected adjacent one end thereof for swinging movement in either direction, means on the opposite end of each arm providing an anchorage for an elastic sling, means at said one end of each of said arms adapted to abut each other and to cooperate with said pivotal connection for limiting movement of said arms in one direction under the influence of one hand of a person gripping said arms so as to provide a slingshot crotch, and a head portion on the opposite end of each arm laterally adjacent the anchorages thereof adapted to abut each other when said arms are swung in an opposite direction, each said head portion having a recess formed thereon in a plane substantially laterally of said anchorages for providing an arrow support between said anchorages.

2,610,621
STOVE FOR BURNING EITHER LIQUID OR GASEOUS FUEL
Martell D. Ingram, Wichita Falls, Tex.
Application December 29, 1948, Serial No. 67,967
7 Claims. (Cl. 126—94)



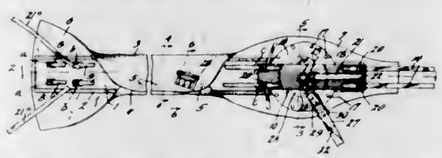
1. A stove for burning either gaseous or liquid fuel which stove has a hollow casing, a plate secured in the lower end portion of said casing and forming a bottom therefor, said bottom plate having an air inlet tube secured therein and extending upwardly into said hollow casing, a non-reservoir cover plate having a downwardly depending outer edge, which cover plate is supported a spaced distance above the upper end of said air inlet tube, said cover plate being spaced from the walls of said hollow casing so as to define an air passage, a fuel inlet pipe passing upward through said cover plate and having lateral fuel outlet apertures formed therein a spaced distance above said cover plate, means for closing the upper end of said fuel inlet pipe, said hollow casing having the upper end thereof closed by a top plate, and means for venting said hollow casing.

2,610,622
BURNER MECHANISM
Gray Coggin, Roswell, N. Mex.
Application January 31, 1947, Serial No. 725,419
4 Claims. (Cl. 126—271.2)



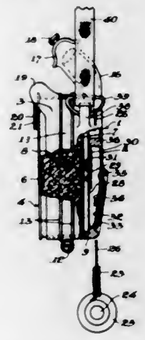
1. In a portable device for performing a burning action a wheeled carriage, a hydraulically operated vertical support member mounted on said wheeled carriage, a plurality of spaced parallel support bars mounted on said hydraulically operated vertical support member, one of said parallel support bars being journaled for rotary and pivotal movement with respect to said hydraulically operated vertical support member so as to obtain various angular adjustments of said parallel bars with respect to the terrain over which the device operates, a plurality of burners mounted in spaced transverse and longitudinal relation on said parallel support bars rearward of said wheeled carriage, a plurality of transverse bars journaling said parallel support bars for arcuate movement, means for securing said parallel support bars in adjusted relation to said transverse bars so as to hold the burners in an angular adjusted relation with respect to the terrain over which the device operates, and a flexible device extending between the outer end of one of said parallel support bars and the upper end of said vertical support member for varying the angularity of said parallel support bars with respect to the terrain over which the portable device operates.

2,610,623
TRUSS
John E. Eddishaw, Atlantic City, N. J.
Application July 17, 1951, Serial No. 237,080
3 Claims. (Cl. 128—107)



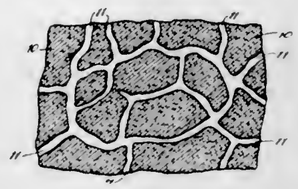
1. An abdominal truss including an encircling belt formed of fabric, together with a layer of soft rubber and an outer fabric covering, the outer covering fastened about midway of its length and its opposite ends open, a padded pocket on the body side of the belt, said pocket having a removable outer face, whereby the padding may be renewed; a second pocket having a removable face and a metal rimmed disc located in said last mentioned pocket, an adjustable pressure strap extending over the said last mentioned pocket and having an acorn-shaped pressure member bearing in the last mentioned pocket, the said pressure strap adjustable and removable, and said encircling belt being also adjustable.

2,610,624
POCKET RESPIRATOR
Robert B. Haller, Wilkinsburg, and William P. Yant, Murraysville, Pa., assignors to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 4, 1947, Serial No. 752,532
4 Claims. (Cl. 128—147)



3. A respirator comprising a cup having a substantially vertical end wall from the edge of which an annular side wall projects laterally, an air purifying cartridge removably inserted in the cup in engagement with its side wall and having a perforated inner end wall extending across the cup, bosses mounted on said cup end wall and projecting toward the cartridge to space the cartridge from said cup end wall, a wall of the cup being provided with an air passage opening into the space between said end wall and cartridge, and a mouthpiece above the cup connected to said passage.

2,610,625
SURGICAL SPONGE AND THE PREPARATION THEREOF
Robert H. Sifferd, Clarendon Hills, and Ralph J. Schmitt, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
Application October 14, 1947, Serial No. 779,820
18 Claims. (Cl. 128—156)

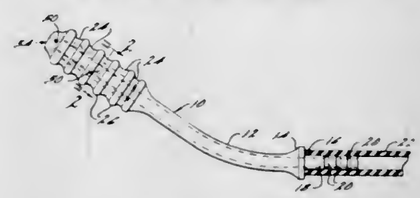


1. A surgical sponge comprising masses of collagen fibrils having open channels extending therethrough, said sponge being substantially free of elastin and formed animal fibers.

2,610,626
SYRINGE
John D. Edwards, Seattle, Wash.
Application July 27, 1951, Serial No. 238,952
3 Claims. (Cl. 128—231)

1. In a vaginal douche syringe, an elongated tube, a nozzle projecting axially from one end of said tube, a douche fluid supply means connected to the other end of said tube, a generally cylindrical inflatable body surrounding said tube, said body having ends secured at opposite ends of said tube, said body being formed of resilient and stretchable material and having a relatively small diameter when uninflated, said body being formed to expand to a relatively large diameter when inflated, and a band surrounding an intermediate portion of said body, said band being substantially less stretchable than said body whereby upon inflation of said body the remainder of said body expands beyond the diameter of said band to define conical heads on the opposite ends of said body.

2,610,627
DOUCHE NOZZLE
Naomi Lee Watt and Harold F. Fehlberg, Detroit, Mich.
Application February 28, 1950, Serial No. 146,826
5 Claims. (Cl. 128—239)



5. A vaginal nozzle comprising an elongated body having a longitudinal through passage and a plurality of radial apertures extending from the passage adjacent one end thereof, a removable cap attached to the body at the mentioned end of the passage, and a tubular screen adapted to receive a medicament attached to and removable from the body with said cap, said screen extending from the cap into the longitudinal passage of the body and across said apertures and being operative to confine medicament within the passage while at the same time permitting it to dissolve in liquid discharged through the passage and through said apertures.

2,610,628
PLURAL-COMPARTMENT ADMIXING VIAL FOR SEGREGATED STORAGE OF INGREDIENTS OF SOLUTIONS AND LIQUID MIXTURES
Marshall L. Lockhart, Rutherford, N. J., assignor, by direct and mesne assignments, to The Compule Corporation, Rutherford, N. J., a corporation of New Jersey
Application May 9, 1950, Serial No. 160,988
14 Claims. (Cl. 128—272)

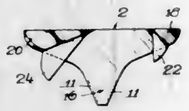
1. A vial for storage of a liquid and another material segregated in separate chambers having

a gated intercommunicating passage to permit admixture comprising, in combination, a substantially tubular body constricted in its mid-section to provide a circular internal seat of a diameter substantially less than the diameter of said body on either side thereof to define at opposite ends a liquid chamber and a second chamber for the other material, means closing off both ends of said tubular body with such means at one end being needle-pierceable permitting cannula access to mixture contents for withdrawal thereof, said closing means at the liquid chamber end



of said vial being a piston plug slidable forward in said liquid chamber, a substantially cylindrical resilient gate plug of a diameter intermediate the diameters of said seat and body removably fitted in said seat temporarily isolating said chambers from each other with said liquid chamber at least almost wholly filled with liquid, and means to apply force axially to said piston plug to move it into said liquid chamber to create fluid pressure against said gate plug sufficient to force it easily into the second chamber to permit admixing of the liquid and the other material.

2,610,629
DIAPER
Maybelle A. Hawkins, Highland Park, Ill.
Application March 31, 1950, Serial No. 153,222
1 Claim. (Cl. 128—295)



An excretion sampling diaper comprising a waterproof container having a pair of spaced integral flaps extending from each side thereof, the flaps at the front of the container being joined to each other and the flaps at the rear of the container being joined to each other and being separable from the flaps at the front of the container, whereby each pair of flaps may be detachably secured to each other around the body of an infant to secure the diaper thereto.

2,610,630
SURGICAL APPARATUS
Beatrice La Voune Crew, Compton, Calif.
Application January 25, 1951, Serial No. 207,734
1 Claim. (Cl. 128—295)

An apparatus of the class described comprising a container in the form of a sack having an open end through which fluid is directed to the interior of the sack, said sack having a closed end reduced in diameter for a substantial distance of the length of the sack providing a handle by means of which the sack is lifted and tilted emptying the contents of the sack, said container having an opening adjacent to the open end thereof, a reinforcing ring surrounding the opening in the wall of the container, a handling strap passing through the opening in the wall of the container and through the open end of said sack providing a handle by means of which the container is carried, and a belt to which said strap



is connected, securing the apparatus to the body of the person wearing the device.

2,610,631
LIGATOR
David J. Calicchio, Boston, Mass.
Application November 2, 1949, Serial No. 125,079
5 Claims. (Cl. 128—326)

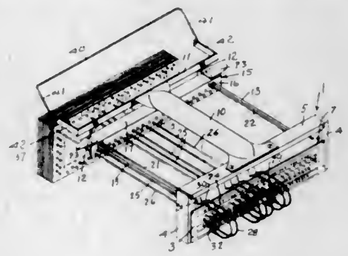


5. A ligator comprising a base provided with a rearwardly disposed portion and a forwardly disposed single-ended terminal portion provided with a terminal collar having a first opening through which may be loosely passed a ligature the forward end of which is provided with a slip knot and a second opening for receiving the free end of the slip knot, and a member provided with means for fastening the rear end of the ligature, the member being rearwardly slidable upon the base to draw the ligature through the first opening in order that the slip knot may engage the terminal portion to become tightened, the terminal collar being of substantial area to render the ligator blunt at its extreme forward end to minimize danger of the said extreme forward end perforating tissue that it may engage.

2,610,632
CARD SORTING DEVICE
Albert A. Rembold, San Francisco, Calif.
Application November 5, 1948, Serial No. 58,495
9 Claims. (Cl. 129—16.1)

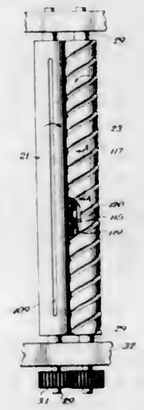
1. A card sorting device of the character described comprising a support having a horizontal-

ly extending row of openings therein adapted to support horizontally extended sorting needles therein at points respectively adjacent one of the ends of said needles, horizontally extending sorting needles removably supported at said points in certain of said openings as selected, the opposite ends of said needles being aligned horizontally and being pointed to facilitate their insertion into the aligned marginally punched openings formed in a stack of sorting cards, a spacer carried by said support adjacent the pointed ends of said needles in engagement with the latter for holding said pointed ends in proper



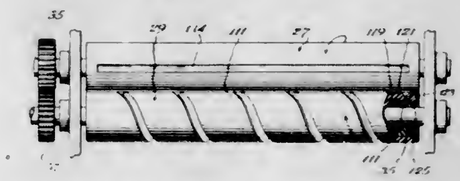
spaced relationship during such insertion of said needles in said marginally punched openings, and means supporting said spacer for movement relative to said needles toward said support to permit movement of such stack along said needles, and a member positioned above and adjacent the pointed ends of said needles and secured to said support for movement to and from a position below said needles outwardly of said spacer relative to said support for supporting said needles when such cards are suspended therefrom and said spacer is between said cards and said supports.

2,610,633
CORN HUSKING ROLL
John C. Jozwik, State College, N. Mex., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application January 26, 1949, Serial No. 72,781
5 Claims. (Cl. 130—5)



4. A husking roll adapted for use with apparatus of the class described, said husking roll including a supporting shaft, and a generally tubular shaped layer of resilient material which is disposed about said shaft, the outer surface of said resilient material having means thereon for advancing crop materials longitudinally therealong, said resilient material having a generally helical rib formed on the inner surface thereof which rib abuts said shaft and extends along a substantial portion of the length of said roll, thereby providing space intermediate said resilient material and said shaft.

2,610,634
CORN HUSKER ROLL
Henry E. Beck, Racine, Wis., John C. Jozwik, State College, N. Mex., and Willard J. Innes, Racine, Wis., assignors to J. I. Case Company, a corporation of Wisconsin
Application January 26, 1949, Serial No. 72,852
1 Claim. (Cl. 130—5)

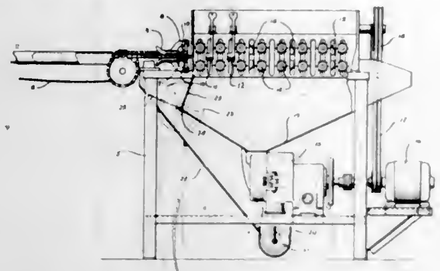


A husking roll adapted for use with apparatus of the class described, said roll including a supporting shaft and a pair of generally tubular shaped layers of resilient material which are disposed about said shaft in superposed relation, the inner of said layers being fabricated from a resilient material having a hardness in the range from about 30-A Durometer after ten seconds to about 60-A Durometer after ten seconds, the inner surface of said inner tubular shaped layer being attached to said shaft and the outer surface of said inner layer being of generally cylindrical shape and having a continuous flute formed therein which generally helically circumscribes said outer surface of said inner layer, the outer of said generally tubular shaped layers being proportioned to fit over said inner layer and having its inner surface provided with a rib which is adapted to register with the flute on the outer surface of said inner layer, the outer surface of said outer layer having a continuous flute formed therein which helically circumscribes said outer surface, said flute in said outer surface of said outermost layer being disposed radially outwardly from said rib whereby the resilient material of said outer layer has a substantially constant thickness, the material from which said outermost layer is fabricated having a hardness of from about 60–A Durometer after ten seconds to about 100–A Durometer after 10 seconds, and the outer diameter of said outermost tubular member being in the range of from about two to four inches.

2,610,635
APPARATUS FOR PREPARING GREEN CORN FOR CANNING
Oscar G. Morral, Morral, Ohio, assignor to Morral Brothers, Inc., Morral, Ohio, a corporation of Ohio
Application June 21, 1948, Serial No. 34,203
1 Claim. (Cl. 130—9)

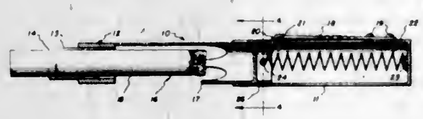
In an apparatus of the character described, a device for severing green corn from the cob comprising means for moving an ear of corn through said device, a first cutter to sever grains of corn from a portion of said ear, a second cutter to sever grains of corn from another portion of said ear, and means to remove the residue of said grains from said cob, a comminuting device, a

hopper arranged to receive grains of corn severed by said cutters, and said residue, and deliver the same to said comminuting device, a receptacle to receive comminuted corn from said comminuting device, a conduit leading to said receptacle and having its upper end below said first cutter, said hopper having an inclined wall the upper end of which is hinged to the lower portion thereof and



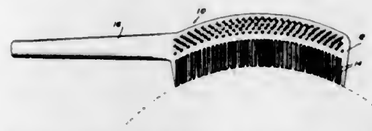
is movable to a position to close the upper end of said conduit and direct the grains of corn severed by said first cutter to said hopper, or to an upright position to divert at least a part of the grains of corn severed by said first cutter into said conduit, and means operable from the exterior of said hopper to move said end portion of said wall to a selected position with relation to said first cutter.

2,610,636
SAFETY ATTACHMENT FOR SMOKERS
John R. Colvin, III, Philadelphia, Pa.
Application December 20, 1949, Serial No. 134,074
2 Claims. (Cl. 131—174)



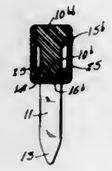
1. In a safety attachment for smokers, a casing having one end open and having the other end closed, a holder having one end closed and having the other end open, the closed end of said holder being positioned within the open end of said casing and mounted therein for extensile and retractile movements, the wall of said holder intermediate its ends having a partially enclosed portion for housing the portion of a cigarette to be consumed during smoking and permitting the entrance of sufficient air thereto to support combustion, gripping means disposed within the open end of said holder and secured thereto for embracingly receiving and supporting said cigarette longitudinally thereof with the end of the cigarette to be lighted spaced from the closed end of said holder and the other end of said cigarette projecting from the open end of said holder, a plurality of guide fingers extending toward said gripping means and spaced longitudinally of said holder at intervals about the periphery thereof, an annular flange disposed in end to end relation with respect to the closed end of said holder, a lug carried by said flange, resilient means carried by said casing and connected to said lug for normally urging said holder into a retracted position to thereby extinguish said cigarette by oxygen deprivation, and hand actuable means carried by said casing engageable with said flange for holding said holder in an extended position.

2,610,637
COMBINED COMB AND BRUSH
Gabriel P. Fuentes, Bronx, N. Y.
Application March 16, 1951, Serial No. 215,902
1 Claim. (Cl. 132—19)



In a combined comb and brush, an elongated body having an oval cross-section and arcuate in the plane of the major axes thereof whereby one longitudinal edge portion of the body is concave, a row of teeth of equal length extending from the concave edge portion of said body and having free extremities defining an arcuate path in the plane of the stated major axes, and a plurality of arcuate rows of bristles projecting from one side of said body, said rows of bristles being radially spaced from and concentric with the free extremities of said teeth, the bristles in said rows being parallel to the minor axes of the body and the bristles in each row being longer than those in the next inner row whereby free extremities of the bristles lie in any radial plane perpendicular to the plane of said major axes and are disposed substantially in a straight line intersecting at an angle of approximately 45 degrees the stated major axes at a point intermediate the ends of said teeth.

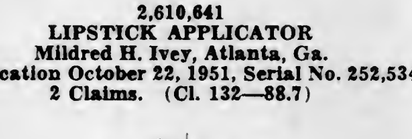
2,610,638
SELF-CLEANING COMB
Lester K. Franklin, Los Angeles, Calif.
Application June 21, 1950, Serial No. 169,360
2 Claims. (Cl. 132—28)



1. A self cleaning comb comprising a comb back having a series of closely spaced teeth projecting therefrom, and a cleaning member in the form of a channel piece having side walls to engage the side faces of the comb back and a base with a slot therein for each said tooth to project through, said side walls being spaced adjacent said base from the adjacent sides of said comb back, and scraping portions formed within said cleaning member at the junction of said side walls with said base for scraping the outer sides of the teeth as the cleaning member is removed from the comb.

2,610,639
HAIR CURLER WITH ROTATABLY ADJUSTABLE BARREL
Albert E. Vaughn, Orange, N. J.
Application September 14, 1950, Serial No. 184,727
8 Claims. (Cl. 132—42)

1. A hair curler, comprising: an elongate body member around which hair can be wound, said body member having a non-circular, keeper opening in its first end and a peripheral groove adjacent its second end; and a resilient clip member having an annular loop portion at one end surrounding said second end of said body member within said groove to allow relative rotation between said body member and said clip member, said clip member having parallel side bars extending longitudinally of and spaced from said body member and having an end bar extending across said first end of said body member, said end bar having an integral, non-circular latching lug adapted to snap into said non-circular

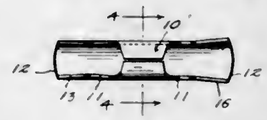


keeper opening so as to releasably retain said clip member in closed position with its side bars extending alongside said body member and to resist relative rotation between said clip and body members, said side bars when unrestrained extending from said loop portion at an angle of less than ninety degrees so that upon release of said latching lug from said keeper opening, said side bars automatically assume an inclined relation to the axis of said body member due to the inherent resiliency of said clip member.

2,610,640
CUTICLE GUARD
Earl M. Linton, Tampa, Fla.
Application August 16, 1950, Serial No. 179,793
5 Claims. (Cl. 132—88.5)

1. A cuticle guard comprising a substantially U-shaped resilient bar the legs of which are normally tensioned to a spaced apart position, each leg being twisted intermediate its ends and having a medial portion between the twist point and the web portion of the bar which is inclined outwardly relative to the longitudinal axis of the leg, said medial portions being adapted to engage the side edges of a fingernail, the web portion having one of its edges adapted to rest upon a fingernail and press against a cuticle, and means on said guard for adjustably securing the legs together to vary the distance between the medial portions of said legs.

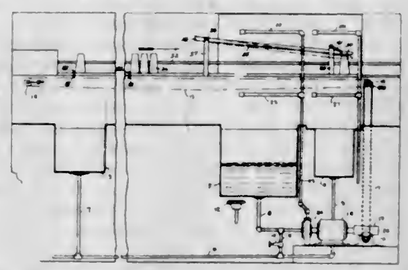
2,610,641
LIPSTICK APPLICATOR
Mildred H. Ivey, Atlanta, Ga.
Application October 22, 1951, Serial No. 252,534
2 Claims. (Cl. 132—88.7)



1. A device for smoothing lipstick comprising a tubular body, and transversely arcuate members projecting from the opposite ends of said body, the opposite lengthwise edges of each member adjacent said body being formed with

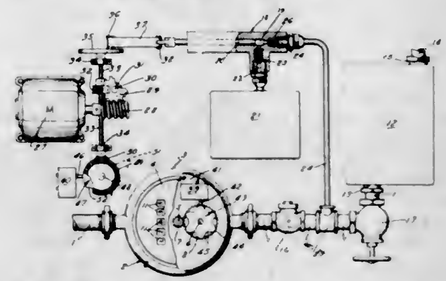
finger engaging cutouts, and the outer end of each member being formed with a rounded edge on the inner concave side thereof.

2,610,642
GLASS WASHING MACHINE
Patsy T. D'Aurora, Erie, Pa.
Application May 27, 1946, Serial No. 672,557
6 Claims. (Cl. 134—47)



1. A glass washing machine comprising a wash tank, a rinse waste tank disposed adjacent said wash tank, wash nozzles disposed above said wash tank, a pump for wash fluid, a pipe line connecting said wash nozzles, said pump and said wash tank for supplying wash fluid to said wash nozzles, rinse nozzles disposed above said rinse tank, a source of water for said rinse nozzles, an endless belt for carrying glasses successively past said wash nozzles and said rinse nozzles, guideways for glasses extending longitudinally of said machine, means on said belt for moving said glasses lengthwise along said guideways, a plurality of smooth, elongated, innerconnected, parallel comparatively light tripping bars disposed above and in substantially vertical alignment with each of said guideways, a motor for operating said pump and said belt, a switch in circuit with said motor, and means connecting said tripping bars and said switch wherein said switch is closed to energize said motor when one or more of said tripping bars are engaged by a glass passing along said guideways, said rinse waste tank being adapted to receive wash water carried by said glasses and rinse water from said rinse nozzles.

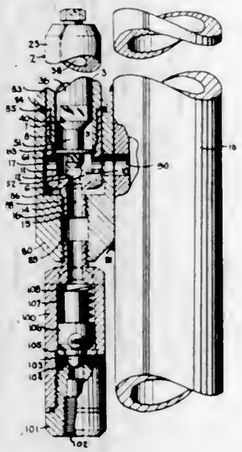
2,610,643
APPARATUS FOR INJECTION OF LIQUID MEDICINE INTO DRINKING WATER IN A CONDUIT
John W. Goff, St. Paul, Minn.
Application October 19, 1949, Serial No. 122,345
2 Claims. (Cl. 137—99)



1. In an apparatus of the class described, a service conduit adapted to be connected at one end to a source of water under pressure and at its

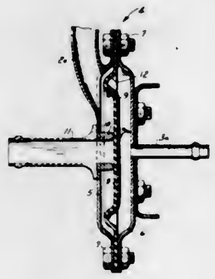
other end to a drinking container, a reservoir adapted to contain a treating solution, an injection conduit leading from the reservoir to the service conduit, an injection pump interposed in said injection conduit, an electric motor for operating the pump, two circuits for said motor, first and second switches associated with and jointly controlling each of said circuits, said switches having corresponding closed positions wherein they are serially connected in and close one of said circuits and having other corresponding closed positions wherein they are serially connected in and close the other of said circuits, a fluid flow operated actuator for the first switch for shifting the same alternately and repeatedly from one of its said closed positions to another thereof, said fluid flow operated actuator comprising a fluid velocity operated motor associated with the service conduit and driven by fluid flowing therethrough and an actuator for the second switch shifting the same alternately and repeatedly from one of said positions to another thereof and comprising said electric motor, the electric motor operated actuator for the second switch shifting the said second switch from one closed position to another at a rate greater than that of the first switch, whereby the pump operating motor will start responsive to each shifting of one of the switches and will stop responsive to each such shifting of the other of the switches.

2,610,644
MEANS OF RESILIENT DAMPING OF PRESSURE BELLOWS
Willis C. Carlisle and John H. McCarvell, Houston, Tex., assignors to Macco Oil Tool Company, Houston, Tex., a partnership
Application January 27, 1951, Serial No. 208,202
9 Claims. (Cl. 137—155)



1. A flow valve for control of the pressure fluid into a well tubing comprising a housing, a chamber therein, inlet ports for the flow of pressure fluid, a flow passage for such fluid from said chamber into the well tubing, a seat at said passage, a valve member disposed in said chamber to engage and disengage said seat, an elongate weighted stem on said valve, a cap closing the top of said housing, a bellows having its upper end sealed to said cap, means sealing its lower end to the top of said stem, said means including a collar on said stem approximating the size of, but slidable in said housing chamber, a stop nipple in said bellows to limit collapsing of said bellows, and a resilient bellows damping device carried by said stem to contact said chamber to protect said bellows against vibration.

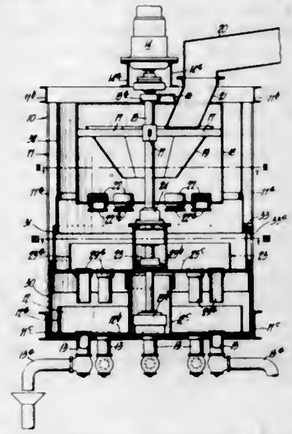
2,610,645
AUTOMATIC DRAIN VALVE
Bruce O. Wagner, Inglewood, Calif., assignor to North American Aviation, Inc.
Application September 22, 1947, Serial No. 775,529
4 Claims. (Cl. 137—188)



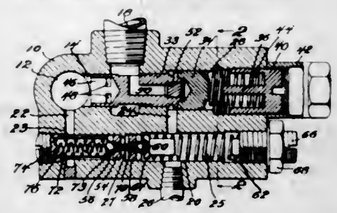
1. A bleed valve for discharging liquid from a pressurized system without loss of pressure, comprising a casing; a diaphragm of flexible material dividing said casing into two compartments; means for connecting each of said compartments to said system, one connection also serving to conduct liquid to one of said compartments; and a discharge tube associated with said one compartment; said diaphragm being flexed at its outer periphery to urge its central portion into sealing engagement with said discharge tube when both compartments are unpressurized, said central portion being also held in sealing engagement when said compartments are pressurized by the difference in pressure on said diaphragm because of the lack of pressure on the portion of the diaphragm engaging said discharge opening, said diaphragm moving into open position when the pressure of collected excess fluid in said one compartment exceeds that of the other compartment plus the flexure stress of said diaphragm, said diaphragm again moving into closed position upon discharge of such excess fluid.

2,610,646
PROPORTIONING DISTRIBUTOR FOR MINERAL PULP OR THE LIKE
Stanley D. Michaelson and William S. Springer, Birmingham, Ala., assignors to United States Steel Company, a corporation of New Jersey
Application June 29, 1950, Serial No. 171,194
7 Claims. (Cl. 137—262)

1. A proportioning distributor for subdividing a stream of fluid material comprising a tank having a plurality of compartments spaced about a common center, each compartment having an outlet, a rotating tank above said first-mentioned tank mounted on a vertical spindle adapted to receive said stream, said rotating tank having outlets fewer in number than those of said first-mentioned tank, an intermediate tank journaled on said spindle between the first-mentioned tank and the rotating tank, said intermediate tank having compartments spaced about said spindle of the same number as the outlets from said rotating tank, said intermediate tank having outlets, one from each compartment, said last-mentioned outlets being spaced so that each one is alined with but one of the compartments of the first-mentioned tank when the intermediate tank is held stationary, and an overrunning clutch on said spindle for driving said intermediate tank when said spindle rotates in one direction.

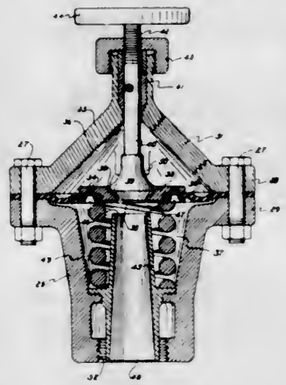


2,610,647
PILOT OPERATED FLUID PRESSURE CONTROL VALVE
George F. Maglott, Wrentham, Mass., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application August 4, 1947, Serial No. 765,862
6 Claims. (Cl. 137—487)



2. A valve mechanism for effecting a constant straight line pressure regulation of a non-compressible liquid medium which comprises a valve assembly including a conduit connecting with the liquid under pressure to be regulated, a second conduit connecting with a pressure at a different level, and a liquid pressure control element movable in alternate directions to connect and to close off an opening between said conduits and arranged to be acted upon in one direction by the pressure to be regulated for conditioning said opening to reduce the pressure to be regulated, and a pilot valve mechanism responsive to the pressure to be regulated for directing liquid pressure against said control element in the opposite direction, which comprises a valve chamber arranged for directing liquid pressure against said control element in said opposite direction, an inlet ball valve for admitting the pressure to be regulated to said chamber, including a valve seat and a ball member having a line contact therewith when closed and movable outwardly of the chamber to open, an exhaust ball valve including a valve seat and a ball member having a line contact therewith when closed and movable outwardly of the chamber to open, spring means tending to close the inlet pressure ball valve, spring means tending to close the exhaust ball valve, a spacer member interposed between said balls of a length to cause one valve to open by a small amount before the other closes so that liquid pressure is admitted past said valves against inversely varying resistances, and the main valve control element is acted upon in opposite directions by two inversely varying forces tending to stabilize at the desired level of pressure to be regulated, and to stabilize the positions of said main valve control element and pilot admission and exhaust valve members therewith.

2,610,648
VALVE APPARATUS
Adolph F. Meyer, St. Paul, Minn.
Application June 1, 1948, Serial No. 30,359
4 Claims. (Cl. 137—497)

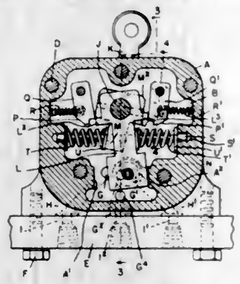


1. A valve apparatus comprising a casing, a flexible diaphragm in said casing supporting a member having a valve seat, said diaphragm with valve seat member and said casing together providing first and second chambers at opposite sides of the diaphragm, an inlet for liquid under pressure to the first chamber, a valve element in said first chamber, said valve seat member being movable as a unit with said diaphragm toward and away from said valve element, resilient means urging said valve seat member toward said valve element, and a tubular member providing an outlet passageway leading toward a location of use for said liquid having an inner end portion thereof projecting into said second chamber and an inner end thereof situated in spaced, adjacent relation to said valve seat member and providing therewith a continuously open throat gap surrounded at a location rearwardly of the inner end of the tubular member by an outer marginal portion of said diaphragm and at a location forwardly of said inner end of the tubular member by an open area of said second chamber isolated from pressure of liquid in said outlet passageway save by said throat gap, said casing and tubular member cooperating to prevent passage of liquid out of the casing save by way of said outlet passageway.

2,610,649
SNAP-ACTION VALVE
John Henry Brodhun, Birmingham, Mich., assignor to The Gear Grinding Machine Company, Hamtramck, Mich., a corporation of Michigan
Application April 18, 1949, Serial No. 88,160
5 Claims. (Cl. 137—701)

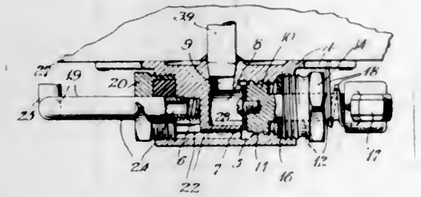
1. A snap action operating mechanism comprising a rock shaft, an arm secured thereto to rock therewith, an adjacent arm pivoted upon said shaft to be freely rockable thereon between two spaced positions, a pair of detents for hold-

ing the latter rock arm in each of said positions, resilient means upon opposite sides of and in the paths of movement of said rock arms for respectively urging said freely pivoted arm in opposite directions, said first mentioned rock arm being



adapted by the rocking thereof to relieve the resilient pressure from one side of the freely pivoted rock arm simultaneously storing additional energy in said resilient means, and also to release the detent restraining movement by the opposite resilient means.

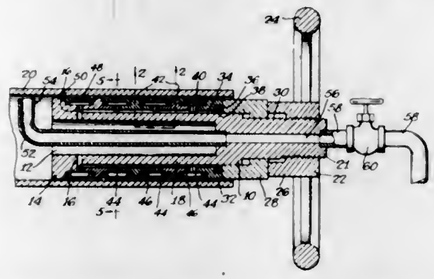
2,610,650
WATER FAUCET
Otto Schopp, Phoenix, Ariz.
Application October 27, 1947, Serial No. 782,373
3 Claims. (Cl. 137—710)



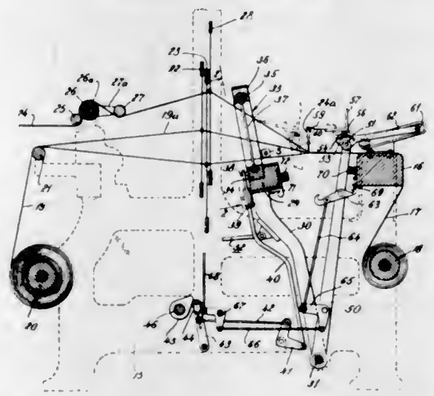
1. In a water faucet having a cylindrical body, an attaching flange joined to the side thereof, an inlet entering through said flange, a valve chamber formed at one end of said valve body having a valve seat and an inlet chamber connecting to said inlet, and a spout chamber at the opposite end of said valve body, the combination therewith of means to control dripping including a threaded valve stem and a valve plug thereon adapted to close on said valve seat, a closing spring on said valve stem adapted to aid closing motion of said stem to provide quick closing of said plug on said seat, a spout having an inside diameter sufficiently constricted to retain water therein by surface tension connected to said spout chamber, a plurality of passageways having an aggregate cross sectional area constricted relative to said spout connecting said valve chamber with said spout chamber whereby water flowing therethrough attains sufficient velocity and kinetic energy to continue to flow momentarily out of said spout after said valve is quickly closed and water remaining in said spout will be forced inward from the outer end portion thereof by atmospheric pressure.

2,610,651
PIPE TESTING MACHINE
Johann Hahn, Brooklyn, N. Y.
Application October 23, 1947, Serial No. 781,603
9 Claims. (Cl. 138—90)

2. A plug assembly for testing pipes under fluid pressure comprising a plug member adapted to fit within a pipe section, said member having a head and a passageway open at one end to fluid within said pipe section, a plurality of annular pressure transmitting members disposed around said plug member and adapted to fit within said pipe section, resilient sealing rings disposed around said plug member and in alternate series with said pressure transmitting members, said sealing rings having inwardly projecting rim sections, and means for moving said pressure transmitting members toward said head to cause the pressure transmitting members to press against said rim sections and deform the sealing rings and press their outer surfaces against the interior wall of said pipe section, said passageway in said plug member communicating with the inner surfaces of said sealing rings to transmit fluid pressure within said pipe section to said sealing rings to supplement the pressure thereof against the inner wall of the pipe section.

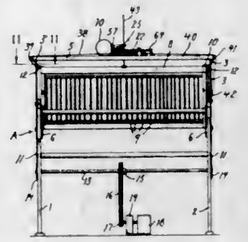


2,610,652
PILE FABRIC LOOM
Samuel P. Parker, La Grange, Ga., assignor to Callaway Mills Company, La Grange, Ga., a corporation of Georgia
Application November 2, 1950, Serial No. 193,575
4 Claims. (Cl. 139—38)



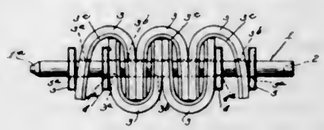
1. In a loom having separate means for supplying pile and ground warp yarns, means for forming the warp yarns into sheds, said means raising the pile yarns higher than the ground yarns in the upper line of the shed, means for inserting a weft yarn into each shed, and a lay mounted to swing about an axis and carrying a reed for beating up the inserted weft yarns, the reed being mounted on the lay for endwise movement transversely of the warp yarns, the combination of a pair of uprights pivoted below the warp yarns for swinging movement parallel to the yarns, a bar extending across and above the warp yarns and carrying a row of hooks projecting toward the rear of the loom, means for mounting the bar on the uprights for pivotal movement, means for intermittently swinging the uprights back and forth with the lay to cause the hooks to pass between the raised pile warp yarns on the back movement of the uprights, means for shifting the reed endwise, when the hooks lie between the yarns, to cause the yarns to be caught by the hooks, and means acting on the mounting means to rock the bar, as the uprights move back and forward, said rocking means including an arm secured to the mounting means and a guide engaging and swinging the arm.

2,610,653
PATTERN MAKER FOR LOOMS
Ewald Kreft and Albert Eichelberger, Jennings, Mo.
Application July 27, 1948, Serial No. 40,814
5 Claims. (Cl. 139—66)



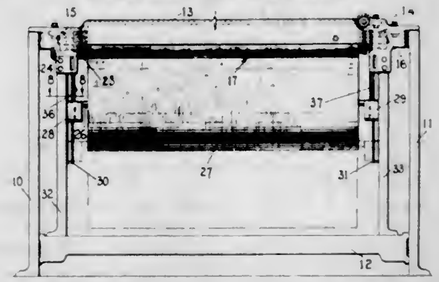
1. A pattern maker for a loom comprising a plurality of harness frames, means for moving said harness frames upwardly, a plurality of elements attached to said harness frames, there being one of said elements associated with each of said harness frames, a plurality of structures related to said plurality of elements, each of said elements having one of said structures related thereto, a shoulder formed on each of said elements which is adapted to be engaged by a portion of the related structure so as to retain the element and its associated harness frame in an elevated position, a circular pattern for controlling actuation of said plurality of structures, a pattern guide, and means for subjecting said pattern guide to movement which feeds said pattern intermittently, the last-mentioned means comprising a shaft having a crank at an end thereof which operatively engages a portion of said pattern guide, and means for rotating said shaft in response to movement of said harness frames.

2,610,654
SPINDLE BUMPER
David A. Ahlstrand, Atlanta, Ga.
Application September 20, 1950, Serial No. 185,886
11 Claims. (Cl. 139—166)



1. In a spindle bumper structure, a multipiece bumper including a plurality of bent straps arranged in abutting relationship, each such strap having a pair of free ends and an intermediate curvilinear portion, the free ends of all the straps being apertured and being thereby adapted to be applied to a spindle, and a free end of each strap being disposed adjacent the curvilinear portion of an adjacent strap.

2,610,655
SAND ROLL AND CLOTH ROLL MECHANISM
Fritz B. Peterson, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application May 7, 1949, Serial No. 91,903
16 Claims. (Cl. 139—308)



1. In a loom the combination of a hollow sand roll and a cloth roll shaft upon which the woven fabric is wound as it is advanced by the sand roll, a common shaft for rotatably supporting the hollow sand roll and from which the said cloth roll shaft is suspended, and a resiliently applied biasing means enclosed within said sand roll for the said common shaft for urging it in a direction to draw the suspended cloth roll shaft and fabric thereon toward the sand roll.

2,610,656
DROP WIRE
Thomas E. Watson, Tewksbury, Mass.
Application July 24, 1951, Serial No. 238,246
16 Claims. (Cl. 139—353)



1. A drop wire having in combination an apertured body, a guide eye, and an electrically nonconducting connector uniting the two parts.

2,610,657
ENGINE DRIVEN CHAIN SAW
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application October 7, 1948, Serial No. 53,201
6 Claims. (Cl. 143—32)

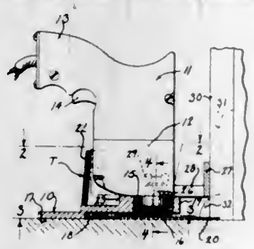
1. In a portable lightweight engine-driven chain saw unit, having an engine, a saw chain disposed forwardly of the engine, and a clutch operatively connecting said engine and chain; a clutch control carried by and disposed rearwardly of the unit and oppositely of the chain respecting the unit, said clutch control comprising relatively movable members one of which is fixed to the

unit and the other of which is connected to said clutch to actuate the same, said clutch being engaged when said members are separated and said clutch being disengaged when said members are closed together, said members being disposed



to provide a single handle for manipulation of the unit with one hand and arranged to disengage the clutch when the members are moved to closed position upon a tight grasping of the members with the hand as in an emergency.

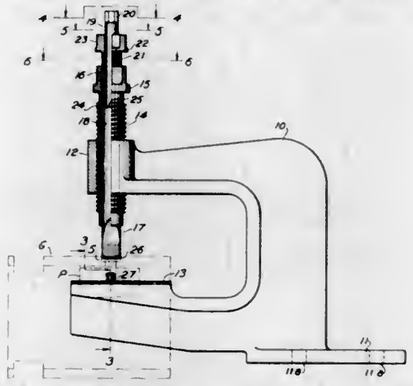
2,610,658
UNDER DOOR FRAME SAW
George O. Koeling, Milwaukee, Wis.
Application September 13, 1950, Serial No. 184,582
2 Claims. (Cl. 143—43)



1. A portable power driven circular saw for making cuts in woodwork adjacent to a floor comprising a base having a lower flat smooth floor engaging face and a substantially semi-circular recess opening out through said face, a split hollow boss opening out through the recess, an electric motor having an extension detachably received in the boss, adjustable set screws on opposite sides of the boss extending through the split portion thereof for contracting the boss about the cylindrical motor extension, and a circular saw partially housed in said recess detachably secured to the armature shaft of the motor.

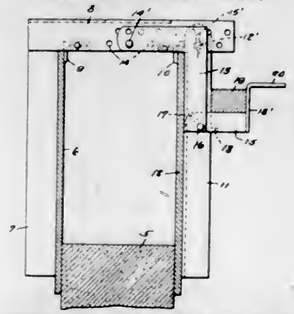
2,610,659
SCREW DRIVER FOR OPERATING ON POLE SHOES
John D. Shaker, Oakland, Calif.
Application March 5, 1948, Serial No. 13,159
2 Claims. (Cl. 144—32)

1. A screw driving device for servicing motors and generators of the type involving a substantially cylindrical casing and pole shoes screwed to the inner wall thereof by externally applied screws; comprising a frame of substantially U-shape having substantially parallel arms and including a base for supporting said arms in substantially horizontal positions to provide an upper arm and a lower arm, said lower arm including an anvil and being of sufficiently small cross section and of sufficient length to permit of a casing and pole shoes being slipped thereover to be supported thereon with said anvil in engagement with a pole shoe; means carried by said upper arm for holding a screwdriver in engagement with such pole shoe affixing screw while said pole shoe is in engagement with said



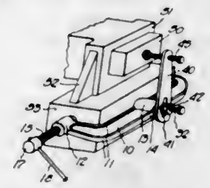
anvil, said means comprising a vertically positioned adjusting screw having a longitudinal passage therethrough to slidably receive a screwdriver having an upper portion of reduced section to form a shoulder, a screwdriver in said passage, a second adjusting screw threadedly receivable into the upper end of said first adjusting screw to engage said shoulder; and means for locating such pole shoe on said anvil with its screw opening in line with such screwdriver.

2,610,660
CLAMP FOR CLAMPING CONCRETE FORMS
Albion H. Jennings and Herbert E. Sharman, Miami, Fla.; said Jennings assignor to said Sharman
Application August 3, 1950, Serial No. 177,458
1 Claim. (Cl. 144—291)



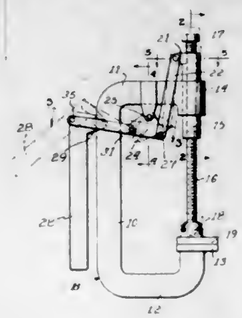
A form clamp for concrete work, comprising a stationary leg, a horizontal bar secured at one of its ends, to the upper end of said stationary leg, stops mounted on the horizontal bar extending below said bar, said stops being adjustable longitudinally of said bar for engaging the form boards, a movable leg, means for pivotally connecting the movable leg to said horizontal bar, a bell-crank lever pivotally connected with the horizontal bar through a bolt passing through the bell-crank lever and horizontal bar, a control lever pivotally connecting the bell-crank lever to the movable leg, and means for limiting movement of the control lever and bell-crank lever in one direction.

2,610,661
C-CLAMP WITH RIGHT-ANGULARLY RELATED CLAMPING SCREWS
James Earl Romine, Mishawaka, Ind.
Application February 6, 1947, Serial No. 726,926
2 Claims. (Cl. 144—304)



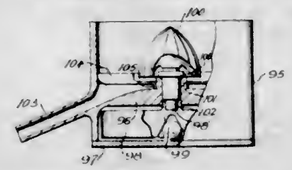
1. A clamp comprising a rigid C-shaped frame, work-engaging members carried by the end portions of said frame and adapted to grip a workpiece therebetween, a screw-threaded member extending through an intermediate portion of said frame whose axis extends perpendicular to and in substantially the same plane as said work-engaging members, said screw-threaded member having a work engaging end within said C-shaped frame, a rigid arm having a longitudinal slot at one end thereof fitting around said screw-threaded member, a member threaded on said screw-threaded member for clamping said arm to said frame in selected rotative and longitudinal adjustment, and a pressure applying member threaded in the free end of said arm and substantially parallel to said screw-threaded member, said last named member having a work engaging end adapted to engage a work piece gripped by said work engaging members.

2,610,662
TOGGLE ACTUATED QUICK ACTION C-CLAMP
Edwin L. Ratcliff, Hamilton, Colo.
Application February 24, 1947, Serial No. 730,597
1 Claim. (Cl. 144—305)



In a quick-action clamp, a C-shaped body having an inturned portion at the free end of one of its arms, a cylindrical enlargement at the end of the other of the arms thereof disposed in alignment with the said inturned portion and having an axial bore extending through the same, a sleeve slidable in the said bore, a flat jaw element fixedly mounted on said inturned portion, a screw extending through the said bore and in threaded engagement with said sleeve, a head on the outer end of said screw, a flat movable jaw element cooperative with said fixed jaw, a ball and socket coupling between said movable jaw and the inner end of said screw, a toggle pivotally interconnecting said body and said sleeve including a lug projecting radially from the outer end of said sleeve, a pair of links pivoted at their outer ends to said lug and having their inner end portions extending cross wise of and at opposite sides of the said one arm, a triangular member pivotally supported at its apex from and at the inner side of the said one arm and pivotally connected at one of its corners to and between the inner ends of said links, a second pair of links pivoted at their inner ends to and at opposite sides of the remaining corner of said triangular member, said second links extending at opposite sides of the intermediate portion of said body and beyond the same, a hand lever pivoted at one end to and between the outer ends of said second links, and a pair of laterally disposed lugs offset from the pivoted end of said lever and straddled over the intermediate portion of said body.

2,610,663
FRUIT REAMER
Jerome L. Murray, Stamford, Conn.
Original application August 29, 1947, Serial No. 771,176. Divided and this application September 16, 1949, Serial No. 122,812
2 Claims. (Cl. 146—3)

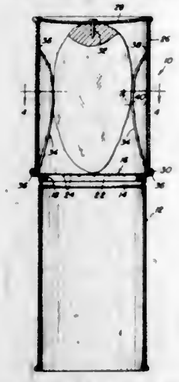


1. A juice extractor unit adapted to removably rest upon the top surface of a magnetic driving device of the type having a rotatable driving magnet positioned beneath the said top, the extractor unit comprising a non-magnetic casing having a relatively flat bottom slidable on and off the surface of a driving unit, a partition in the casing forming a closed chamber in the lower portion of the casing, said partition having one aperture therein forming a journal, a single rotatable element of a ferro-magnetic material and having a vertical shaft journalled in said aperture, said element being disposed in the chamber and adapted to be rotated about an axis centrally located with respect to the chamber and said aperture, the rotatable element being so positioned to be driven by the driving magnet of the driving device when the unit is placed on the top surface of the device, and being constructed to be only magnetically driven, the portion of the casing above the partition having upwardly extending walls forming a juice extracting chamber, said juice extracting chamber having a discharge spout, a reamer, and means slidably coupling the reamer to said shaft, all the non-rotatable parts being of non-magnetic material.

2,610,664
POTATO CUTTER
Wallace A. Thompson, Pontiac, Mich.
Application November 14, 1949, Serial No. 127,048
2 Claims. (Cl. 146—169)

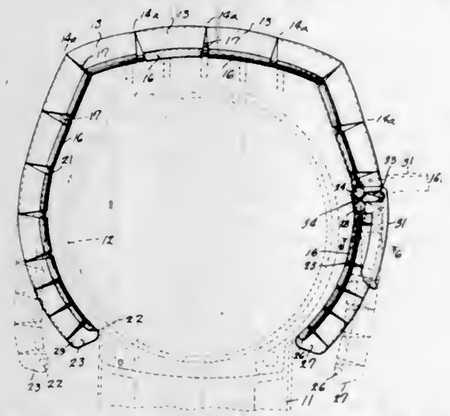
1. In a potato cutter, the combination of a vertically elongated barrel having an open upper end, cutter means mounted in the upper end of said barrel, a vertically elongated sleeve having an open end and movable downwardly from an initial position above the barrel to an ultimate position wherein it is telescoped over the barrel, said sleeve being of such size relative to the barrel as to provide an annular space between the barrel and the sleeve when the latter is

in its ultimate position, and a set of leaf springs attached at one end thereof to the lower edge of said sleeve and extending upwardly therein, said springs being inwardly convexed in said



sleeve to supportably engage a potato therein when the sleeve is in its initial position and being receivable in a flat position in said space between the sleeve and the barrel when the sleeve is drawn downwardly.

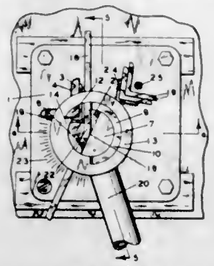
2,610,665
VEHICLE TIRE TRACTION DEVICE
Koester E. Schonert, Stamford, Conn., assignor to Electro Craft Incorporated, Stamford, Conn., a corporation of Connecticut
Application January 12, 1950, Serial No. 138,111
12 Claims. (Cl. 152—225)



1. A traction device for pneumatic tires comprising a plurality of generally U-shaped segmental elements connected together for relative hinging movement to form a road engaging cleat adapted to embrace the periphery and side walls of a pneumatic tire, a cable slidably connected with the inner edges of said elements, and means for varying the effective length of said cable to contract said elements into gripping engagement with a tire.

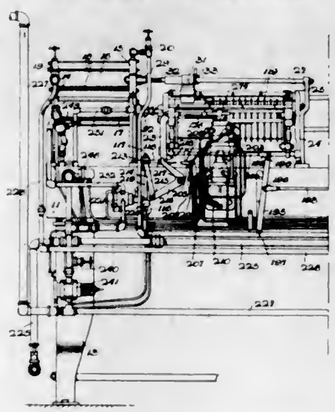
2,610,666
BENDING MACHINE
Harold A. Thompson, Silverton, Oreg.
Application June 27, 1950, Serial No. 170,608
2 Claims. (Cl. 153—15)

1. A bending apparatus comprising a base having a horizontally disposed working surface with a bearing recessed therein, a pair of spaced angular anvils fixed to said base and extending upwardly from said working surface adjacent said bearing, a bending member including a disc journalled in said bearing and carrying a vertically disposed angular bending anvil in cooperative relation with said pair of anvils for bending a metal strip, and a handle extending from said bending member for pivoting said disc to swing said bending anvil relative to said pair of anvils,



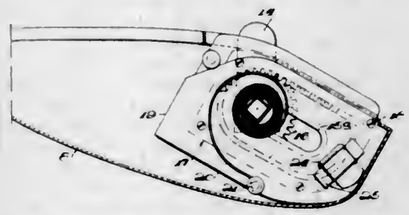
a semi-disc fixed to the top of said bending anvil, said semi-disc having a diametrical edge that is coplanar with one surface of said bending anvil to enable insertion of a metal strip past said diametrical edge and between said anvils, and a ring removably mounted on said pair of anvils and having a bearing portion for journalling said semi-disc, whereby said ring may be removed for insertion of a metal strip between said anvils.

2,610,667
HYDRAULIC CORRUGATING MACHINE
Louis M. Puster, Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, a corporation of Delaware
Application July 2, 1947, Serial No. 758,664
14 Claims. (Cl. 153—73)



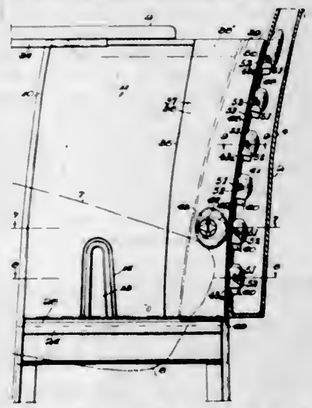
1. In an apparatus of the character described, in combination with pairs of cooperating forming plates, pairs of frame elements mounted for rotational movement into open and closed positions in which corresponding plates of said pairs are slidably mounted for relative rotational movement, a source of fluid pressure, means for rotating said frame elements and plates into closed position and for locking said frame elements and the plates of said pairs together, movable means for automatically closing the open end of a tube in position in said plates before said plates are in closed position, a valve responsive to movement of said last named means for admitting fluid under pressure to the interior of the tube when said last named means is in tube closing position, and a pressure responsive valve responsive to the pressure in the tube for energizing said rotating means to rotate said frame elements and plates into closed position about the tube.

2,610,668
UPLIFT TYPE THEATER CHAIR
Irl R. Bromagem, Union City, Ind., assignor to Union City Body Company, Inc., Union City, Ind., a corporation of Indiana
Application November 25, 1947, Serial No. 787,996
8 Claims. (Cl. 155—85)



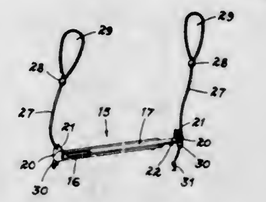
1. In a theater chair having a fixed supporting member and a seat member pivotally mounted thereon for movement between a horizontal operative position and a vertical inoperative position, mechanism for causing the seat member to rise bodily as the seat member is swung from horizontal to vertical position comprising horizontal pivot means projecting from one of the members and carrying a toothed element, and a correspondingly toothed element mounted on the other member and bearing on the pivot means by engagement thereof with the first-named toothed element so that the seat member may be swung between the named positions, said toothed elements being so shaped that at least one of said elements will become displaced relatively to the supporting member when the seat member is swung from horizontal to vertical position so as to cause the seat member to rise bodily with relation to the supporting member.

2,610,669
THEATER CHAIR BACK MOUNTING CONSTRUCTION
Irl R. Bromagem, Union City, Ind., assignor to Union City Body Company, Inc., Union City, Ind., a corporation of Indiana
Application November 25, 1947, Serial No. 787,997
20 Claims. (Cl. 155—178)



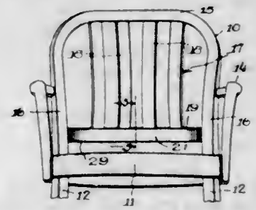
1. A theater chair comprising a fixed supporting member, a back member, and means separably connecting the members together comprising a socket formed in one of the members, a lug device projecting from the other member insertible into and expansible in the socket, and an actuating element connected to the lug device for expanding it.

2,610,670
RESTRAINING DEVICE FOR CHILDREN'S HIGH CHAIRS
Percy E. Grooms, Troy, Ohio
Application March 17, 1951, Serial No. 216,190
8 Claims. (Cl. 155—189)



1. A restraining device for use with a child's high chair comprising a detachable clamping member for temporary attachment to the footrest of the chair, flexible leg embracing members attached to said clamping member adapted to receive the legs of the child seated in the chair, means for adjusting said leg embracing members to restrain movement of the child's feet in an upward direction beyond the seat level, means for effecting release of said leg embracing members from said chair upon the downward movement of the child out of the chair.

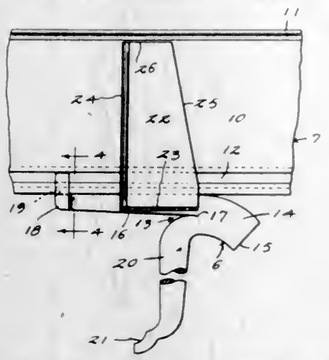
2,610,671
BACK REST FOR CHAIRS
John S. Burdick, North Muskegon, Mich., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application September 26, 1950, Serial No. 186,812
3 Claims. (Cl. 155—191)



1. In a chair, a back frame and seat, the back frame comprising a top rail and side rails connected to the seat and a back splat assembly comprising a generally horizontal rearwardly curved cross bar having its opposite ends connected to the side rails so as to extend substantially across the sacroiliac region and above the coccyx of an average occupant of the seat, and a plurality of spaced upright splats extending between and fixed to said cross bar and top rail, said back splats being curved in a vertical plane to present a downwardly and rearwardly flaring back rest area along its lower margin, the opposite ends of said cross bar being joined to the side rails with its front and rear surfaces in substantial parallel upright alignment therewith, but the plane of the front face of said cross bar being gradually twisted intermediate its ends to present a downwardly and rearwardly flared surface along its

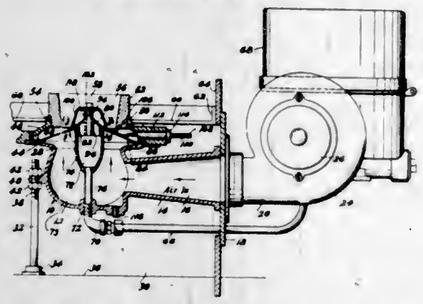
central portion at angles corresponding substantially to the adjacent portions of said downwardly and rearwardly flaring back rest portions, and said cross bar being of substantially uniform cross-sectional area throughout its length.

2,610,672
CIRCUMFERENTIALLY TRAVELING TIRE BEAD PRYING TOOL
James M. Edwards, Wink, Tex., assignor of one-third to Beaumont B. Wright, Wink, Tex.
Application September 2, 1949, Serial No. 113,775
6 Claims. (Cl. 157—1.22)



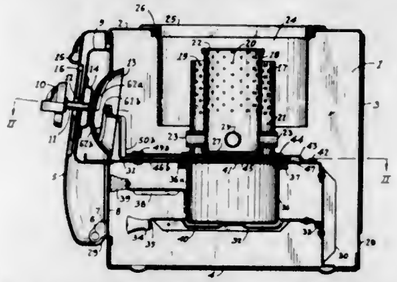
1. A tool for disengaging a pneumatic tire from a rim comprising a head having an outer impact receiving end and an opposite, inner end, a guide member rigidly secured to and extending from a portion of the inner end of said head and adapted to slidably engage an edge of a tire rim, said guide member forming a substantially straight extension of the inner end of the head, a handle projecting from another portion of the inner end of said head and rigidly secured thereto, a blade having one end secured to the guide member adjacent said handle and projecting transversely therefrom and adapted to be inserted transversely between the outer side of said rim and a tire mounted thereon, said blade having a straight scraping and cutting edge extending from end-to-end thereof disposed remote to said head and transversely of the guide member, said blade and handle projecting in opposite directions from the guide member and being disposed in substantially parallel planes.

2,610,673
OIL BURNER
Edward F. Chandler, Brooklyn, N. Y.
Application May 26, 1947, Serial No. 750,499
2 Claims. (Cl. 158—91)



1. An oil burner comprising a housing having a chamber with an air intake opening connectable to a source of air and having a discharge opening to discharge the air stream derived from said air source, an oil tube connectable to an oil source and extending into said chamber, means forming a bowl chamber communicating therewith to receive oil from said oil tube, closure means carried by said bowl chamber, duct means for conducting oil upwardly out of said bowl chamber, oil metering means adapted to discharge oil from said duct means above said closure means at a predetermined rate, and oil distributing screen mesh means adapted to receive oil flowing out of said oil metering means and extending across the said air stream outwardly relative to the center thereof, whereby said oil is distributed uniformly across said air stream for intermixture therewith to form a readily combustible mixture, and characterized further in that said oil distributing means includes a wire mesh screen extending across said air stream in said chamber, and a wick-like layer of foraminous material supported below said wire mesh screen, whereby the air stream is constrained to flow through both said layer and said screen, and whereby oil flowing upon said mesh screen is conducted uniformly across said air stream.

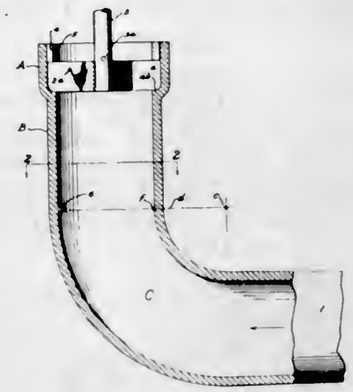
2,610,674
FLAME CONTROL FOR BURNERS OF THE SOLIDIFIED NORMALLY LIQUID FUEL BURNING TYPE
Albert Joseph Laliberte, West Cheshire, Conn., assignor to Safety-Fuel Incorporated, West Cheshire, Conn., a corporation of Connecticut
Application October 15, 1946, Serial No. 703,315
7 Claims. (Cl. 158—97)



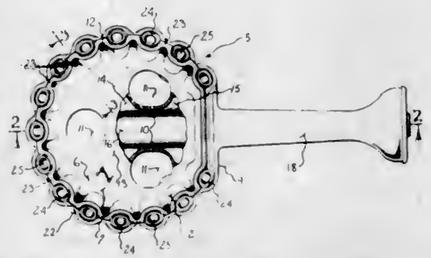
1. In a burner of the normally liquid solidified fuel burning type having a fuel receptacle and means defining a combustion space, the improvement in flame control structure which comprises means defining a substantially vapor tight conduit positioned to feed vaporized fuel from said receptacle to said combustion space, means defining a shutter substantially vapor tightly arranged within said conduit for substantially opening and closing said conduit to the passage of fuel vapors therethrough, and means for manually adjusting said shutter to various positions throughout its operating range from fully closed to full opened, said receptacle and said conduit forming an air excluding substantially vapor tight unit.

2,610,675
FLAME RETAINING ATMOSPHERIC GAS BURNER
Edward R. Downe, Elyria, Ohio, assignor to The C. A. Olsen Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application November 16, 1950, Serial No. 196,016
4 Claims. (Cl. 158—114)

1. In a burner of the class described: a straight tubular discharge portion having at its end a head portion there providing an enlarged discharge mouth for the passageway through said discharge portion, with a shoulder at the enlargement, a circular band fitting within said head portion to extend from the downstream extremity thereof short of said shoulder, and having corrugations running longitudinally of said discharge portion, and a cylindrical band fitting within said corrugated band, said circular band having ends slightly spaced from each other, and said cylindrical band having outturned ends abutting each other and disposed between said circular band ends.

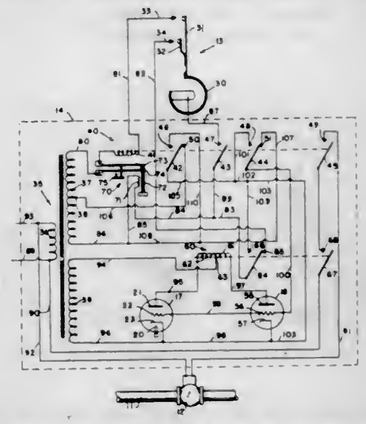


2,610,676
GAS BURNER WITH SECONDARY AIR FEED
Carlton M. Wheelock, Milwaukee, Wis.
Application January 9, 1947, Serial No. 720,996
9 Claims. (Cl. 158—116)



6. A gas burner, comprising: a relatively flat substantially hollow burner head; inner port forming members on the head spaced about the periphery thereof; cooperating outer port forming members on the head substantially embracing said inner port forming members and spaced therefrom to coact therewith in defining a multiplicity of substantially ring-like ports through which gas delivered to the hollow interior of the head issues to burn in a flame hollow at its base; and means on the outer port forming members between adjacent inner port forming members defining relatively narrow slit-like discharge ports extending entirely through the head and connecting said ring-like ports, and through which gas in the head issues to burn in a substantially flat flame joining the sides of said hollow flames.

2,610,677
FUEL BURNER SAFETY CONTROL APPARATUS
Frederick E. Lange, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 23, 1948, Serial No. 45,702
9 Claims. (Cl. 158—123)

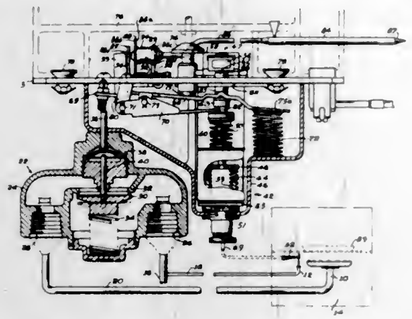


1. A flame detector and pilot burner assembly for use with a main burner comprising, a pilot burner normally having a flame emitting therefrom, a first electron emissive device having a thermoemissive surface and structurally related to said pilot burner so that said thermoemissive surface is normally heated by the pilot flame and at least a portion of said flame is exposed to serve as an ignition flame, a second electron emissive device having a thermoemissive surface and mechanically supported in close proximity to said first electron emissive device so that said first and said second devices are subjected to the same ambient temperature, a source of power, current responsive means for indicating the presence or absence of the pilot flame on said first of said devices, and means connecting said responsive means in circuit with said source of power and said first and second devices so that when said first of said devices does have the pilot flame applied thereto said responsive means will indicate the presence of flame and when said first of said devices does not have the pilot flame applied thereto said responsive means will not indicate the presence of the pilot flame regardless of the ambient temperature of said first and said second devices.

2,610,678
TEMPERATURE CONTROL DEVICE
Samuel G. Eskin and Harold W. Rice, Los Angeles, Calif., assignors to Robertshaw-Fulton Controls Company, a corporation of Delaware
Application March 13, 1947, Serial No. 734,302
4 Claims. (Cl. 158—127)

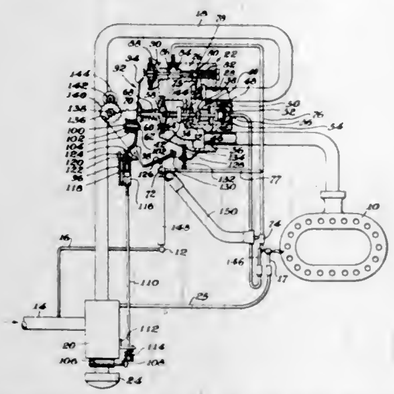
1. A control device for heating means for heating the contents of a container, comprising in combination, control means movable between positions for controlling the flow of a heat producing medium to the heating means, means for biasing said control means to a position wherein said flow is prevented, electromagnetic means having an armature movable between attracted and released positions, means for biasing said armature to said released position, thermally responsive means for energizing said electromagnetic means sufficiently to prevent move-

ment of said armature from said attracted position but insufficiently to cause movement thereof from said released position, reset means for overcoming the last said biasing means and causing movement of said armature to said attracted position, manually operable means movable in one direction for operating said reset means and having limited slidable movement in the opposite direction relative thereto upon completion of the resetting operation, a lever device adapted to be positioned for operative engagement with said



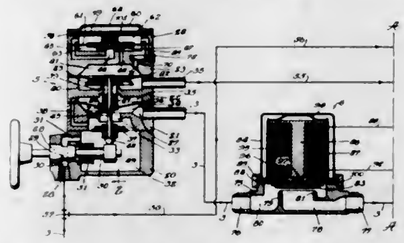
manually operable means and said control means for moving the latter to flow permitting position upon said limited slidable movement of said manually operable means, a temperature responsive device operable for causing movement of said armature to said released position and said control means to said flow preventing position, said device including a portion insertable into the contents of said container and adapted to be responsive to the internal temperature thereof for exerting a force on said lever device.

2,610,679
SAFETY CONTROL AND IGNITION APPARATUS FOR GASEOUS FUEL BURNERS
Victor Weber, Greensburg, and William J. Russell, Jeannette, Pa., assignors to Robertshaw-Fulton Controls Company, Youngwood, Pa., a corporation of Delaware
Application January 26, 1948, Serial No. 4,318
14 Claims. (Cl. 158—130)



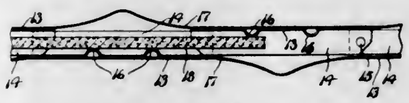
5. A control apparatus for fuel burners having main and pilot burners, electromagnetic safety valve means operable between open and closed positions for controlling the flow of fuel to the main burner and being biased to closed position, a lever device movable into operative engagement with said safety means for overcoming said bias, a thermal timer biased into latching engagement with said lever device for holding the same in said operative engagement, said timer being responsive to a flame at the pilot burner for terminating said latching engagement after a predetermined period after initial movement thereof, and means operatively associated with said lever device for retarding the rate of return movement of said lever device when said operative engagement is terminated.

2,610,680
CONTROL SYSTEM UTILIZING SINGLE POINT IGNITION
Ernst Witzel, Milwaukee, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 8, 1947, Serial No. 746,780
18 Claims. (Cl. 158—131)



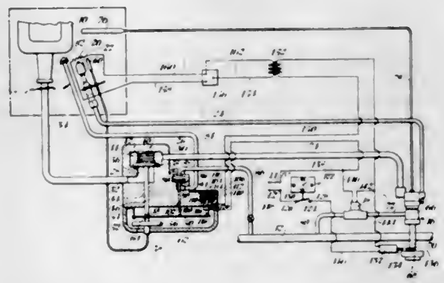
12. A safety shut-off device for a burner apparatus comprising, in combination, a valve body having a fuel inlet and a first fuel outlet for delivering fuel to both a main burner and an igniting pilot burner, said valve body having a second fuel outlet for delivering fuel to intermediate pilot burner means, a first valve operable to shut off flow of fuel through said first fuel outlet, a second valve connected for operation with said first valve and operable to shut off flow of fuel through said second fuel outlet, actuating means for actuating said valves together in one direction to close said first valve and open said second valve, said valves being operable in the opposite direction upon release of said actuating means to open said first valve and close said second valve, said first valve being arranged to open before said second valve closes, and time delay means for delaying closing of said second valve for a time interval after opening of said first valve.

2,610,681
ROLL PARTITION
Theodore Schaap, Muskegon, Mich.
Application October 12, 1950, Serial No. 189,729
2 Claims. (Cl. 160—230)



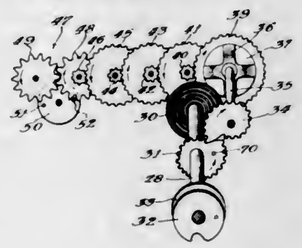
1. In a structure as described, a series of vertical panels adapted to be located in a common vertical plane and spaced from each other at adjacent vertical edges, a second series of vertical panels adapted to be located in a vertical plane parallel to and spaced from the plane of the first series of panels, also spaced from each other at adjacent vertical edges, the panels of one series of panels being located opposite the spaces between the panels of the other series of panels, means connected with said panels at the inner sides thereof extending toward and overlapping each other, the vertical edge portions of one series of panels overlapping adjacent vertical edge portions of the other series of panels, pivot means connecting said last mentioned means adjacent the overlapping panel portions, whereby the panels are pivotally connected to turn about vertical axes, and a curtain secured onto the outer sides of the panels of each series of panels, covering said panels and the spaces between the adjacent vertical edges of each of the series of panels.

2,610,682
CONTROL SYSTEM FOR FLUID FUEL BURNERS
Victor Weber, Greensburg, Pa., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application November 15, 1950, Serial No. 195,765
14 Claims. (Cl. 161—9)



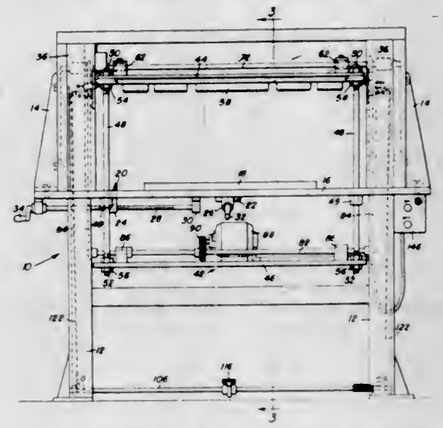
1. In a fluid fuel burner control system having main and pilot burners, ignition means for igniting fuel flowing from the pilot burner, valve means responsive to the presence of flame at the pilot burner for controlling the supply of fuel to the main burner, manually operable valve means for controlling the supply of fuel to said last named means and to the pilot burner, and timing means for controlling the supply of fuel to said manually operable valve means at preselected intervals.

2,610,683
INTERVAL TIMER
Elmer H. Beiser, Peru, Ill., assignor to General Time Corporation, New York, N. Y., a corporation of Delaware
Application September 26, 1949, Serial No. 117,854
9 Claims. (Cl. 161—15)



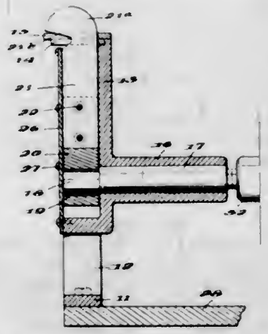
1. In an interval timer the combination comprising a dial having non-uniformly spaced markings thereon, an indicator cooperating with said dial, a rotatable shaft for driving said indicator, a spring having one end secured to said shaft for biasing said shaft in one direction, a first spiral gear secured to said shaft and rotatable therewith, a second spiral gear meshing with said first gear, and an escapement means geared to said second spiral gear for controlling the rate of rotation of said shaft under the influence of said spring.

2,610,684
MULTIPLE DIE CUTTER
Ralph P. Bagdigian, Somerville, Mass.
Application January 9, 1951, Serial No. 205,169
8 Claims. (Cl. 164—23)



1. A drive means for a movable panel comprising a frame including a table top, a movable panel slidably carried by said frame for movement toward and away from said table top, a pair of U-shaped guide tracks fixedly mounted on the frame and having toothed surfaces around their whole length, a horizontally slidable shaft rotatably and slidably mounted on said panel, a pair of gears on said shaft engaging said tracks for the entire perimeter of said tracks, and power means on said panel and operatively connected to the shaft.

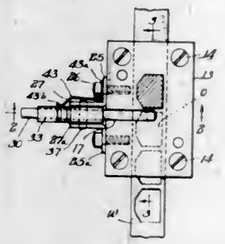
2,610,685
SHEET METAL CUTTING APPARATUS
Roderick Le Bron and William R. Heck, Omaha, Nebr.
Application August 15, 1947, Serial No. 768,770
1 Claim. (Cl. 164—47)



Sheet metal cutting apparatus comprising a frame embodying a stationary cutter member having a slot therein open at its forward end, the margins of said slot constituting cutting edges, a reciprocable cutter member including an actuating arm extending through said slot and a cutter head at the extremity thereof having cutting edges inclined in an upward and forward

direction with respect to the edges of said slot, the edges of said cutter head extending from a point within the body of said actuating arm to a point beyond the forward side of said actuating arm, the forward side of said actuating arm being recessed inwardly to provide an upwardly inclined portion the edges of which intersect the inner extremities of said cutting edges and thereby form a notch within the arm immediately below said cutting edges, whereby on relative movement of said cutter head through the slot the ribbon cut from the sheet metal is bent forwardly on engagement with the base of said notch and deflected into an expanding spiral roll as the cutting operation continues, and a drive shaft rotatably mounted in said frame, the actuating arm at a point remote from the cutter head being eccentrically mounted on such shaft to provide a stroke whereby said cutting edges will sever the work solely along said cutting edges.

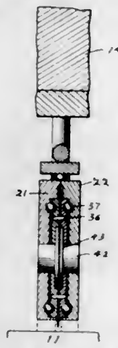
2,610,686
AUTOMATIC STOP FOR DIES
Rudolf Krasberg, Chicago, Ill.
Application August 23, 1947, Serial No. 770,287
3 Claims. (Cl. 164—59)



1. A punch press or the like comprising a die and stripper plate assembly, a reciprocating tool mechanism, a rocker assembly including a sheet metal supporting bracket, means for pivotally supporting said bracket from said die and stripper plate assembly, and an arm secured and carried solely by said supporting bracket and having a transverse recess formed in the surface thereof at a pre-selected position with respect to said bracket, a portion of said bracket extending into said recess for maintaining said arm in the preselected position of adjustment, said arm having a stop portion adapted to successively engage and position the work during passage thereof through the die and stripper plate assembly, means carried by the tool mechanism for shifting said rocker assembly in a direction to move said stop portion out of engagement with the work, and spring means for returning said rocker arm with said stop portion in work engaging position.

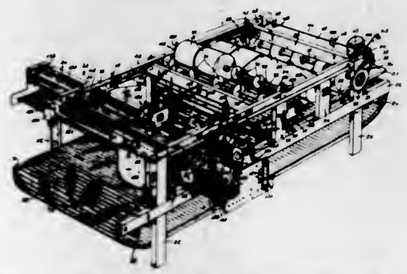
2,610,687
ROTARY SCORING CUTTER ASSEMBLY
William W. Betts, Binghamton, N. Y., assignor of five per cent to Mary Dilley, Binghamton, N. Y.
Application September 17, 1948, Serial No. 49,822
6 Claims. (Cl. 164—70)

1. A cutter assembly for a rotary cutting and scoring device comprising in combination, a thin, circular disc sharpened on its periphery to form a cutter, a pair of flange washers of lesser diameter than the disc to support and guide said cutter, cooperating means in said flange washers and disc to connect and center the parts, a circular groove in the outer face of each washer near its periphery, a pair of mating knife holder blocks, the confronting face of each of said blocks being recessed to closely fit and receive one of said washers and to provide clearance for the cutter, a segment of the cutter being exposed beyond an edge of said assembled blocks, a groove in the bottom walls of each recess for cooperation with



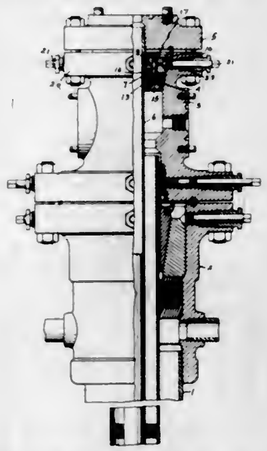
that in the washer received therein, balls in the channels formed by the confronting grooves to form the sole bearings for the cutter and to clamp the discs thereagainst as radial pressure is applied to the exposed knife edge and means securing said blocks together.

2,610,688
BATTING MACHINE
Earl R. Overman, Wabash, Ind.
Application July 21, 1947, Serial No 762,362
17 Claims. (Cl. 164—76)



1. In a machine of the class described, conveyor means for passing a stream of material longitudinally through the machine, and means for transversely cutting such stream during passage thereof through the machine, comprising a boom extending transversely of the machine and laterally beyond both edges of said conveyor, a carriage supported on said boom for travel substantially from end to end thereof, a rotary knife supported on said carriage for rotation upon an axis parallel with the line of travel of such stream, means periodically operative to drive said boom in synchronism with such stream, means, operative during such boom travel, to drive said carriage from one extreme position to its opposite extreme position thereon, means for rotating said knife during travel of said carriage, a series of parallel rollers carried on said boom and arranged on axes disposed in a common plane immediately above said conveyor, said stream of material being guided to flow over said rollers, and means for driving said rollers at a peripheral speed and in a direction corresponding to the lineal movement of said conveyor while said boom is at rest, and for arresting rotation of said rollers while said boom travels in synchronism with said conveyor.

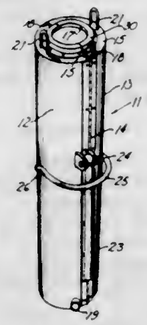
2,610,689
WELLHEAD SEAL
John E. Eckel, Houston, Tex., assignor to Oil Center Tool Company, Houston, Tex., a corporation of Texas
Application August 19, 1946, Serial No. 691,519
16 Claims. (Cl. 166—14)



1. In combination, a tubular well head having a supporting seat therein, and having a well pipe extending therethrough, a sealing assembly for sealing off between the well pipe and the inside wall of the well head and including an annular support adapted to engage the seat within the well head and surrounding the well pipe, an annular expansible sealing member below the support, pressure-applying means having a portion thereof connected to the sealing member and slidably extending upwardly through the support an upper ring overlying the support and movable relative thereto and secured to the pressure-applying means, and operating means mounted in the well head and movable substantially radially inwardly between the annular support and the upper ring coacting with the support and said pressure-applying means to simultaneously lock said support against upward displacement and to urge the upper ring and the pressure-applying means attached thereto upwardly with respect to the support and sealing member, whereby an upward pressure is applied to the sealing member by the pressure-applying means to deform said member into sealing engagement with the well head pipe and head below the support.

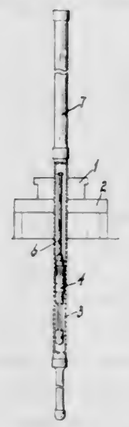
2,610,690
MUD BOX
Guy M. Beatty, Bakersfield, Calif.
Application August 10, 1950, Serial No. 178,660
6 Claims. (Cl. 166—16)

5. In a mud box for use to control the issue of liquid from a joint between two pipe sections while being uncoupled, the combination of: a pair of vertically disposed substantially semi-cylindrical mating box halves hinged to one another along a pair of longitudinal meeting edges, said box halves being formed to fit at top and bottom about a pipe section to enclose a chamber surrounding a joint in said pipe, the vertical edges of said box halves opposite to said hinged edges being adapted to close with one another to prevent issue of liquid therebetween, a handle bar horizontally pivoted to one of the box halves near the hinge axis therefrom, said handle bar having a normal position extending outwardly substantially horizontally from said box half, a pair of spring yoke arms mounted on said bar near the pivot axis thereof, said yoke arms extending transversely of the handle bar, and extending horizontally to vertical planes of interfering engagement with the outer cylindric sides of said box halves, said arms being formed to yieldingly engage said box halves and



to swing said other box half closed upon said first mentioned box half when said handle bar is vertically moving from its substantially horizontal position to a substantially vertical position, and a lug on said other box half in the path of movement of the corresponding yoke arm to be engaged by said arm to pull said other box half to open position as said handle bar is moved from its vertical position to horizontal position.

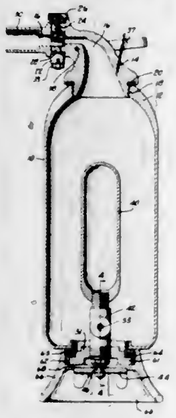
2,610,691
METHOD OF TESTING PIPE
Frank W. Berry, Long Beach, Calif., assignor, by decree of distribution, to Lois Berry
Application October 24, 1946, Serial No. 705,457
5 Claims. (Cl. 166—21)



1. A method of subjecting each of a plurality of elongated tubular members that may be connected in longitudinal sequence to substantially the same predetermined hydraulic testing pressure which comprises, disposing the first of said members in a vertical position with the lower interior end portion thereof in slidable fluid sealing contact with fluid sealing means that closes the lower end thereof, filling said first member with fluid to provide a fluid column therein, applying fluid pressure to said column to subject the interior of said first member to a predetermined

hydraulic pressure for testing purposes, connecting a second member to the upper end of said first member, moving said first and second members in a longitudinal direction relative to said sealing means to transfer said fluid column from said first member into said second member and position said sealing means in the lower end of said second member in a member closing and fluid column supporting position, and repeating said hydraulic testing operation by use of said column in said second member and said column in subsequent members in sequence as said members are connected to the uppermost of the tested members and moved relative to said sealing means into a testing position.

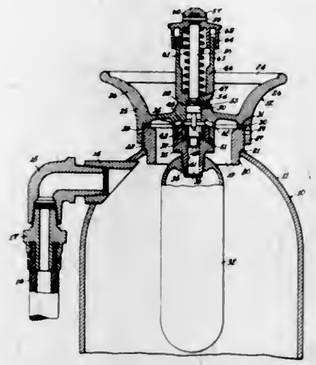
2,610,692
FIRE EXTINGUISHER
Ernest E. Seaberg, Brooklyn, N. Y., assignor to Carnoy Products Corporation, Elmsford, N. Y., a corporation of New York
Application December 3, 1948, Serial No. 63,260
4 Claims. (Cl. 169—31)



1. In a gas propelled dry powder fire extinguisher the combination of a large bottle to be filled with the dry powder and having a wide mouth opening at one end thereof, said wide mouth opening provided with an internally recessed seat and a threaded exterior surface, a flanged valve member seated within the recessed seat of said opening by means of said flange, the inlet end of said valve member rigidly secured to the discharge end of a gas bottle positioned within said large bottle, the discharge opening of said valve member being completely within said large bottle, and a threaded ring screwed on to the mouth of said large bottle and securely clamping the flange to its seat and holding the gas bottle in position.

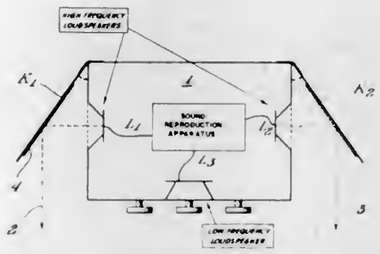
2,610,693
FIRE EXTINGUISHER DISCHARGE HEAD AND CARRYING HANDLE
Frank B. Allen, Towaco, N. J., assignor to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Application June 9, 1950, Serial No. 167,220
2 Claims. (Cl. 169—31)

2. A combination discharge head and carrying handle for a fire extinguisher having a container for a fire extinguishing agent adapted to be expelled upon the release of fluid pressure from a stored fluid pressure medium cartridge, the discharge head comprising a cover member having a downwardly extending flange to engage a container, a ring carrying handle, supporting legs to position the carrying ring above the cover member, an upwardly directed hollow extension projecting upwardly from the top of the cover member through the center of the carrying ring, an apertured partition in the extension passage defining a spring recess on its upper side and a guiding recess on its lower side, an operating member slideably carried in the passage and having its body portion of one diameter to fit in the guiding recess, an upwardly directed portion



of the operating member of smaller diameter projecting from the top of the extension, a cap member for the end of the operating member extension, a pin extending through aligned apertures in the operating rod extension and the cap member to hold said members together, a spring abutting at one end against the apertured partition and at its other end against the underside of the cap member, the operating member having an annular packing recess thereabout, and an O ring packing in the packing recess to provide a seal between the operating member and the wall of the guiding recess.

2,610,694
STEREOPHONIC REPRODUCTION APPARATUS
Kornelis de Boer, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 8, 1946, Serial No. 660,324
In the Netherlands May 30, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 30, 1964
5 Claims. (Cl. 181—31)



5. Stereophonic reproduction apparatus comprising a cabinet having a front wall and side walls, a reproduction apparatus housed in said cabinet, at least one loudspeaker for high frequency sound production and housed in one of said walls so as to direct sound in a first direction, at least another loudspeaker for low frequency sound production and housed in another of said walls so as to direct sound at an angle to said first direction, means separately connecting each of said loudspeakers to said reproduction apparatus to form therewith a pair of stereophonic component channels, a sound reflecting hinged panel attached to that side wall on which one of said loudspeakers has been secured and positioned to substantially cover said loudspeaker, said hinged panel being swingable to a position in front of said loudspeaker in the side wall for reflecting the sound oscillations coming therefrom primarily in about the same direction as that in which the sound is radiated from the other loudspeaker.

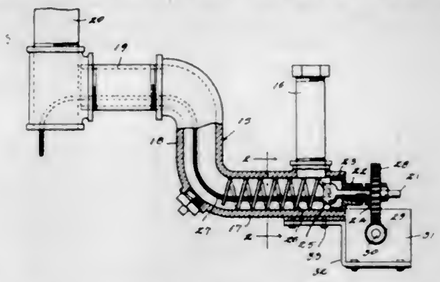
2,610,695
SUPPORTING MEANS FOR ACOUSTICAL ABSORBERS
Olav Ebbesen Grue, Copenhagen, Denmark
Application February 28, 1948, Serial No. 12,081
In Denmark August 27, 1946
2 Claims. (Cl. 181—33)



1. In a sound absorbing unit, a wall structure forming a hollow casing having an open side and surrounding an open sided chamber and having an exterior surface, a layer of sound absorbing material disposed within said chamber and adjacent the wall structure and being porous for allowing the passage of sound waves and simultaneously damping the sound waves passing therethrough, said wall structure having passages for sound waves to penetrate through said surface and into said porous layer, and being so constructed and arranged that opposite wall portions in at least two perpendicular directions within a plane substantially parallel with said open side are spaced from each other across said chamber for a distance equalling at least a multiple of the thickness of said porous layer, an edge on said wall structure confining said open side, fastening means including a resilient tensioning element extending through said chamber from said open side, said element being shorter than said casing when in rest position, and means connected to said fastening means and coacting with a portion of said structure disposed opposite said open side for mounting said casing resiliently with said edge against the surface of an object.

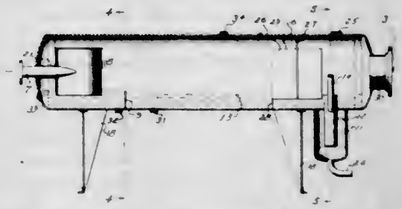
2,610,696
DRAIN TRAP SCRAPING AND CLEANING MEANS
De Ella B. Mayberry, Detroit, Mich.
Application July 29, 1949, Serial No. 107,542
11 Claims. (Cl. 182—7)

1. A built-in cleaning means for a drain trap having an aperture in a wall thereof, said means comprising a sealing bushing adapted to be inset in said aperture, a shaft extending through said bushing, means for rotating said shaft, a disc carried by the inner end of said shaft for rotation thereby, an elongated flexible coiled wire secured at one end to a peripheral point in said disc for eccentric rotation by said disc and a scraper and



agitating element carried by a second peripheral point on said disc and rotatable therewith.

2,610,697
GAS AND LIQUID SEPARATOR APPARATUS
Isaac W. Lovelady and Sanford P. Kroeker, Odessa, Tex., assignors to Sivalls Tanks, Inc., Odessa, Tex., a corporation of Texas
Application March 27, 1950, Serial No. 152,086
11 Claims. (Cl. 183—2.7)

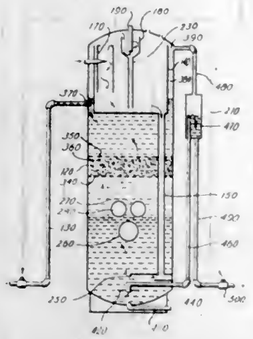


1. A gas and liquid separator comprising an elongate tank mountable with its longitudinal axis extending horizontally and having a main body portion, a centrifugal separator cylinder mounted upright within the tank adjacent one end, trap means beneath the cylinder to receive the turbulent liquid from the cylinder with an overflow communicating with the main body portion of the tank, a liquid draw-off for the tank remote from the separator cylinder including a weir to maintain a predetermined liquid level within the main body portion of the tank between said trap means and said weir, and a gas draw-off in the upper portion of the tank, also remote from the separator cylinder whereby there is provided in the main body portion of said tank a relatively quiescent zone through which the gas and separated liquid flow substantially horizontally with an interface therebetween of substantial area.

2,610,698
EMULSION TREATER
Isaac W. Lovelady and Sanford P. Kroeker, Odessa, Tex., assignors to Sivalls Tanks, Inc., Odessa, Tex., a corporation of Texas
Application July 3, 1950, Serial No. 171,806
13 Claims. (Cl. 183—2.7)

1. In an emulsion treater a vessel closed except for inlet and outlet connections, a cold flume within and adjacent the top of said vessel for receiving the cold emulsion and providing an opportunity for quiescent separation of gas from liquid and liquids from each other by gravity, said cold flume extending across the major portion of the cross section of said vessel but less than the entire cross section to permit passage between the space above and the space below said

flume, a pipe for conducting liquid from within the bottom of said flume to a point in said vessel a substantial distance below said flume, an outlet for gas above said flume, an outlet for heavier liquid below the discharge of said pipe, an outlet



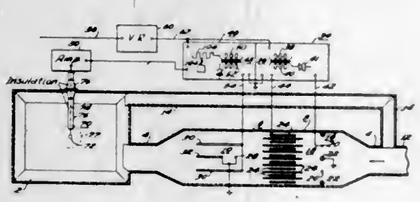
for the lighter liquid from said vessel adjacent but above the level of the lower end of said flume, a heater above the outlet of said pipe, and means for maintaining a desired level of the interface of the heavier liquid and the emulsion after discharge from said pipe.

2,610,699

ELECTROSTATIC AIR-CLEANING SYSTEM

Gaylord W. Penney and George W. Hewitt, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 1, 1948, Serial No. 18,334
19 Claims. (Cl. 183—7)



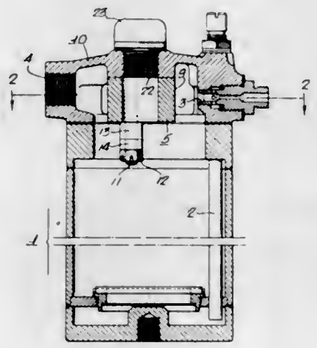
1. A system of a type described comprising, in combination: electrostatic air-cleaning means and a gas-duct connected to an outlet thereof for conveying electrostatically cleaned air therefrom; a low-voltage power supply line; said air-cleaning means comprising a pair of relatively insulated cooperating electrodes for providing an ionized electrostatic field, and voltage-conversion means having an input and having an output connected to supply an ionizing voltage across said electrodes; a connection line including a voltage-regulator between said power line and said input; adjustable means associated with said voltage conversion means and operable thereon for increasing and decreasing said ionizing voltage; a charge-detector constructed and arranged so as to be exposed to said cleaned air, said charge-detector being characterized by developing an electric quantity thereon which is measurably representative of the charge in said air to which it is exposed, and an electrical means connected to said charge-detector and operable in accordance with the electric quantity in said charge-detector for operating said adjustable means.

2,610,700

OIL MIST LUBRICATOR

Karl Evald Andreas Göthberg, Goteborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden, a corporation of Sweden

Application April 2, 1948, Serial No. 18,590
In Sweden April 11, 1947
9 Claims. (Cl. 183—22)



9. In an oil mist lubricating apparatus, a body forming a closed chamber, means in the chamber forming an oil reservoir, imperforate baffle means in the chamber, means adjacent the baffle means to spray oil withdrawn from the reservoir and mixed with air against the baffle means in a high velocity stream, some of the oil being in particles of mist size capable of suspension in air while others are of larger size incapable of suspension in air, the baffle means being formed to divide and deflect the stream through a substantial angle and toward the walls of the chamber, thereby causing the larger oil particles to collect on the surface of the baffle and on the walls of the chamber, said baffle having a surface extending below the high velocity stream to permit oil to drip therefrom to the oil reservoir without having to pass through the high velocity stream and means at the top of the chamber forming an outlet for the air and oil mist particles suspended therein.

2,610,701

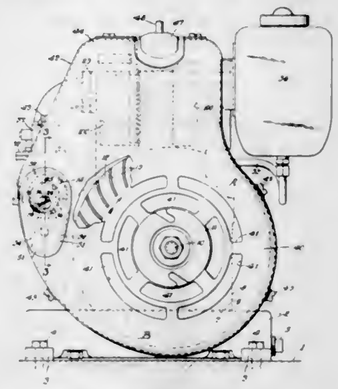
AIR CLEANER FOR INTERNAL-COMBUSTION ENGINES

Harry Goldberg and Milford D. Burrows, Chicago, Ill., assignors to Pioneer Gen-E-Motor Corporation, Chicago, Ill., a corporation of Delaware

Application November 18, 1949, Serial No. 128,196
10 Claims. (Cl. 183—36)

1. In combination, a rotary air impeller, a housing enclosing it, having end walls, one on either side thereof and between them a generally spiral wall outwardly diverging from the periphery of the impeller in the general direction of the flow of air discharged thereby, an air cleaner housing located in the angular space between the spiral wall and the impeller and extending across that space between the two parallel walls, and defining with the spiral wall a passage having converging walls on the air receiving side of the passage so formed, and having diverging walls on the trailing side of the passage so formed, the air cleaner housing having a foraminous air inlet portion on the trailing side thereof, in relation to the direction of delivery of air about the cleaner, said housing having also a closed portion extending generally throughout the side

of the housing opposed to the flow of the air delivered against it by the impeller, and an air



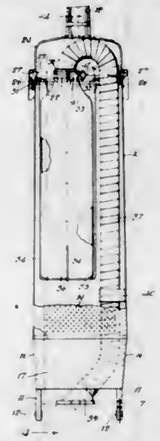
discharge passage leading from the interior of the cleaner out through one of the parallel side walls.

2,610,702

BAG SUPPORT AND HANDLE FOR VACUUM CLEANERS

Everett D. Thornwald, Chicago, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a corporation of Illinois

Application August 13, 1949, Serial No. 110,105
8 Claims. (Cl. 183—51)



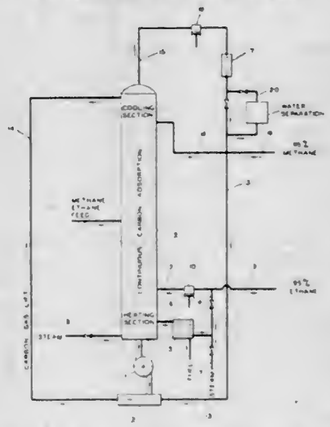
1. In a combined handle and bag support for floor supported vacuum cleaners, a generally rigid bag housing, having a top opening of adequate size for the upward removal of a bag, means for flexibly securing its lower end to a vacuum cleaner floor tool for rotation in relation to said tool about a generally horizontal axis, said housing having an opening at its lower end, positioned and adapted to provide a substantial air outlet space, a bag holder positioned within said housing and formed and adapted to receive a bag having a cross-sectional area substantially less than the cross-sectional area of the housing, said bag holder being formed and adapted normally to limit the downward movement of the bag to a predetermined position of the bag, while permitting upward removal of the bag through the top opening of the housing, said housing having a top closure movably secured to its upper end, said closure having an upwardly and rearwardly extending handle portion, said housing having within it means for supporting, exteriorly of the bag, a flexible air discharge duct of sufficient length to extend through the open bottom of the housing from the vacuum cleaner to the upper end of a bag positioned in said bag holder.

2,610,703

CONTINUOUS ADSORPTION PROCESS

Lyle W. Pollock, Washougal, Wash., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 8, 1946, Serial No. 681,781
3 Claims. (Cl. 183—114.2)



1. A process for the separation of a mixture of low-boiling hydrocarbon gases comprising maintaining a gravitating elongated column of granular activated charcoal of uniform horizontal cross-section; contacting the intermediate section of said column of charcoal with a countercurrent stream of the low-boiling hydrocarbon mixture to be separated so as to selectively adsorb the higher molecular weight hydrocarbon and allow the residual hydrocarbon to pass upwardly through the remainder of the bed; withdrawing a stream of residual hydrocarbon from the upper end of said column; contacting the lower section of said column of charcoal containing the adsorbed hydrocarbon with a hot gaseous stream comprising recycled desorbed hydrocarbon together with steam so as to desorb the adsorbed hydrocarbon, said gaseous stream supplying by direct heat exchange all of the heat for the desorption step; recovering a stream of desorbed hydrocarbon from the upper end of said lower section, heating a portion thereof, and recycling same to said lower section as a portion of said gaseous stream; maintaining a cooling section in the upper end of said column of charcoal solely by recycling a cooled portion of the unadsorbed hydrocarbon in direct heat exchange with the charcoal therein; and recycling charcoal from the lower end of said column to the top thereof.

2,610,704

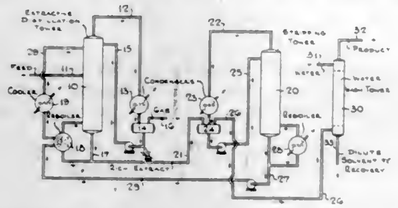
SEPARATION OF ETHANE AND ETHYLENE BY EXTRACTIVE DISTILLATION

John A. Patterson, Beverly, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 3, 1947, Serial No. 758,841
5 Claims. (Cl. 183—115)

1. A process for separating ethylene and ethane from a gaseous mixture containing hy-

drogen, methane, ethylene and ethane which comprises subjecting the gaseous mixture to extractive distillation at a pressure of 200 to 300 p. s. i. in an extractive distillation zone in the presence of a solvent selected from the group consisting of acetone, furfural and water solu-



tions thereof, whereby ethylene and ethane are absorbed by the solvent, removing a distillate containing hydrogen and methane from the distillation zone, and removing a solution of ethylene and ethane in said solvent from a bottom portion of the extractive distillation zone.

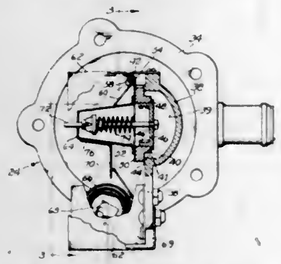
2,610,705

OIL TANK PRESSURIZING CONTROL

John F. Kirkbride and John D. Mayer, Seattle, Wash., assignors to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware

Application November 16, 1948, Serial No. 60,238

6 Claims. (Cl. 184—6)



1. In a system of lubrication, the combination comprising a lubricant storage container having a storage capacity sufficient in relation to its normal lubricant content to provide an air space in the top portion of its interior, means operable to circulate lubricant to and from said container and to affect accumulation of air in such top portion, vent valve means leading from such top portion, operable to control escape of air from said container and thereby from the system, means responsive to the temperature within said container and operable to open said valve means upon decrease in such temperature below a predetermined value, and means responsive to pressure of air in said container and operable to open said valve means to relieve air under pressure above a predetermined value.

2,610,706

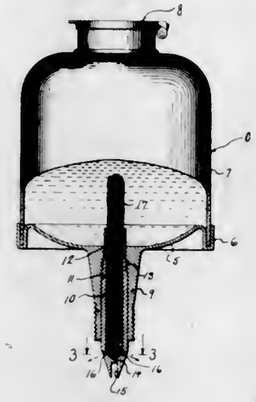
WICK OILER

Oscar H. Jung, Milwaukee, Wis.

Application October 15, 1948, Serial No. 54,729

1 Claim. (Cl. 184—87)

In an oiler or the like of the type having a bottom wall provided with a depending discharge fitting having internal and external threads, a removable wick retainer tube adapted to be threaded into the fitting, said wick retainer tube having a conically shaped closed lower end and an axial bore opening out on the upper end thereof, a wick received in said bore and seated against said closed lower end, said wick being solely supported by said wick retainer tube, said conically shaped closed lower end having a transverse tool receiving slot in the extreme end there-



of, whereby the tube and wick can be quickly moved into and out of the discharge fitting, and restricted outlet ports communicating with the axial bore adjacent the conically shaped closed lower end.

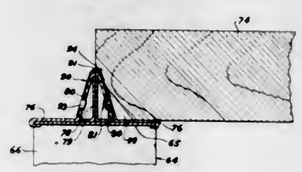
2,610,707

BUILDING STRUCTURE

Harold S. Shannon and Thaddeus B. Hurd, Detroit, Mich., assignors to National Steel Corporation, a corporation of Delaware

Application February 23, 1946, Serial No. 649,453

9 Claims. (Cl. 189—1)



1. In a building structure, a panel and a floor panel supporting structure comprising a grade beam, a spacer member on the grade beam, a frame member on the spacer member and extending thereabove and locating and limiting lateral movement of the panel, an aperture in the frame member receiving attaching means carried by the panel and attaching the panel to the frame member, an elongated frame member supported by the first-named frame member and supporting the panel along one edge thereof, and a projection carried by the elongated frame member bent over in the aperture in the first-named frame member securing the frame members together.

2,610,708

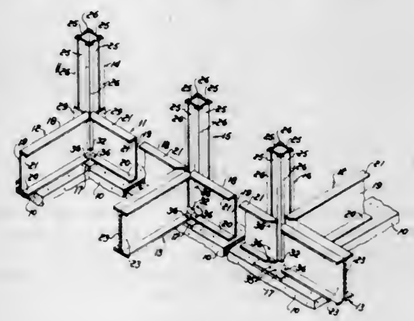
BUILDING FRAMEWORK

Harold S. Shannon, Detroit, Mich., assignor to National Steel Corporation, a corporation of Delaware

Application June 17, 1946, Serial No. 677,223

7 Claims. (Cl. 189—1)

1. In a building structure, the combination comprising a foundation, a base plate supported on the foundation, the base plate having a centrally located aperture and a plurality of other apertures, a vertical column having a lower end portion seating on the base plate, a plurality of grade beams each having an end portion with an aperture seating on the base plate, each of the grade beam apertures being in alignment with a respective one of the other base plate apertures, anchor means extending from the foundation up through the centrally located aperture in the base plate, the other base plate apertures encircling the centrally located aperture with a pair of the other apertures being located in each quadrant of the base plate in a symmetrical arrangement



about a centrally located aperture, whereby upon misalignment of the apertures of the grade beams and base plate rotation of the base plate about the anchor means to align any one of the other base plate apertures with a grade beam aperture also aligns a base plate aperture with each of the grade beam apertures, securing means in the aligned base plate and grade beam apertures securing together the base plate and grade beams, and means connecting the grade beams to the column.

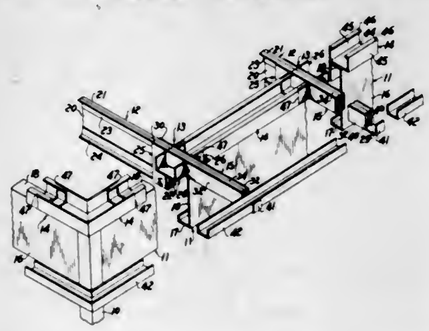
2,610,709

BUILDING CONSTRUCTION

Thaddeus B. Hurd, Detroit, Mich., assignor to National Steel Corporation, a corporation of Delaware

Application September 26, 1946, Serial No. 702,833

6 Claims. (Cl. 189—1)



1. In building construction the combination comprising, a support having a downwardly turned flange terminating in a lower free edge, a joist extending away from the support, a connector member supported on the support presenting a seat supporting an end portion of the joist, and attachment means formed out of a portion of the connector member, said attachment means extending about and engaging the free edge of the support flange and holding the connector member against movement in either direction longitudinally of the joist.

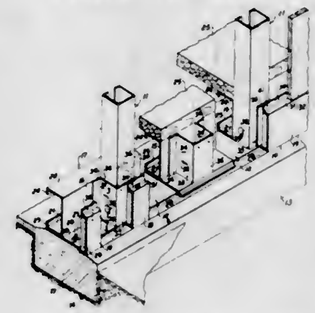
2,610,710

STRUCTURAL FRAME FOUNDATION

Harold S. Shannon, Detroit, Mich., assignor to National Steel Corporation, a corporation of Delaware

Application November 29, 1946, Serial No. 712,745

1 Claim. (Cl. 189—1)



A building foundation frame member comprising, an angle member having a base portion and an upstanding side portion, a channel member seating on and secured to the base portion extending longitudinally of the angle member, the channel member facing laterally with its web cooperating with the angle member to provide an upwardly facing channel having a common wall with the laterally facing channel, an elongated hollow moisture guard extending below the base portion at the upstanding side portion, insulation received in and extending upwardly from the hollow moisture guard, an inturned supporting flange on the upstanding side portion immediately above the insulation, and a retainer strap secured to the web within the upwardly facing channel to receive a lower end portion of a building upright member, the retainer strap extending across the upwardly facing channel into engagement with the inturned supporting flange.

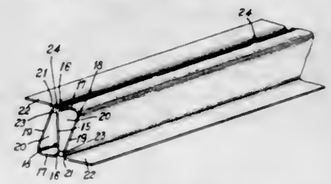
2,610,711

DOUBLE V STUD SECTION

Stanley Macomber, North Canton, Ohio

Application October 16, 1948, Serial No. 54,843

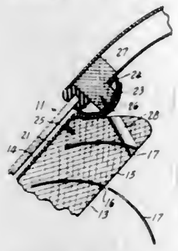
4 Claims. (Cl. 189—34)



1. A structural stud for walls and the like, comprising a single strip of sheet metal of uniform cross section, longitudinally bent into double tubular form consisting of two transversely tapered tubular sections, the metal strip having a longitudinal central portion forming a common wall between said tubular sections the tubular sections being located on opposite sides of said common wall, the metal strip at each end of said common wall being bent arcuately in opposite directions, then toward the opposite end of the common wall at an angle thereto, extending to a point slightly laterally spaced from and in substantial lateral alignment with the opposite end of the common wall, the terminal portions of the strip being bent arcuately and outwardly, forming a transversely tapered tubular portion on each side

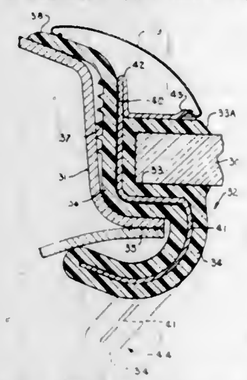
of the common wall with a longitudinal nailing groove therein of predetermined width said nailing grooves being in oppositely facing sides of the stud, and parallel flanges at opposite sides of the stud.

2,610,712
WINDOW BLIND ASSEMBLY FOR VEHICLES
Glenn A. Hamrick, San Diego, Calif.
Application June 19, 1948, Serial No. 34,065
3 Claims. (Cl. 189—63)



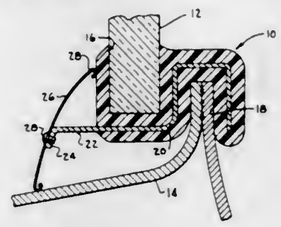
1. A window shade assembly adapted to be mounted upon the rear window of an automobile comprising a pair of spaced apart elongated support members, said support members having a plurality of generally arcuate slots provided therein and longitudinally spaced therealong, a plurality of transversely curved unitary slats formed of a resilient material fitted in said spaced slots and readily removably supported thereby upon said support members, said spaced slots positioning said slats vertically one above the other to exclude the direct rays of the sun without obstructing vision through the rear window, the curvature of said arcuate slats being different than the curvature of said curved slats whereby said slats will be distorted on insertion into said slots to provide a holding force which maintains said slats in position, and means to secure said support members to the frame of the rear window, said means comprising an elongated metallic mounting strip secured on each of said support members at their rear faces, said strips adapted to be secured at their extremities to the rear window frame.

2,610,713
SEALING STRIP
Stephen D. Bradley, Detroit, Mich., assignor to Detroit Macold Corporation, Detroit, Mich., a corporation of Michigan
Application December 10, 1948, Serial No. 64,639
8 Claims. (Cl. 189—78)



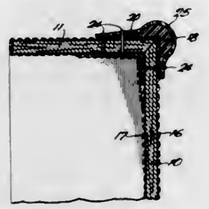
6. A sealing strip for connecting adjacent edges of joined panels and for sealing the joint therebetween, said strip comprising a resilient sealing strip member having reversely opening channels therein for receiving the adjacent edges of the panels to be joined and having an internal channel therein extending around the closed end of one of the open channels to the opposite side of the other channel, said sealing strip member having a relatively long lip portion projecting therefrom to form a trim overlying an adjacent face of one of the joined panels, and a metallic strip loosely inserted in said internal channel and having an end portion extending outwardly therefrom, said metallic strip having each of its ends bent toward the reversely opening channels so that a clamping force may be exerted on the resilient sealing strip member to maintain a weathertight seal between the sealing strip member and the adjacent edges of the panel.

2,610,714
SEALING STRIP
Stephen D. Bradley, Detroit, Mich., assignor to Detroit Macold Corporation, Detroit, Mich., a corporation of Michigan
Application November 28, 1951, Serial No. 258,600
4 Claims. (Cl. 189—78)



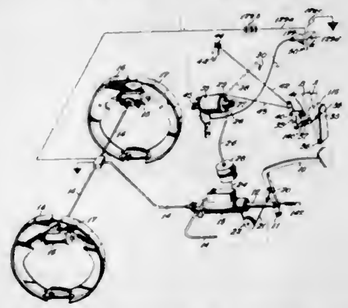
1. A sealing strip for connecting adjacent edges of joined panels and for sealing the joint therebetween, said strip comprising a yieldable nonmetallic cushioning strip having open channels for receiving the edges of the panels to be joined and having an internal channel, a metallic strip inserted in said internal channel and having an end portion extending around the closed end of one of said open channels so as to clamp the panel received therein, the opposite end portion of said metallic strip extending partially around the closed end of the other of said open channels and extending laterally therefrom, and means at the distal end of the latter end portion for securing a trim molding thereto.

2,610,715
CONSTRUCTION OF CORNER SECTIONS IN LUGGAGE
Samuel D. Plotkin, Evanston, Ill., assignor to Oshkosh Trunk and Luggage Co., Chicago, Ill., a corporation of Wisconsin
Application July 6, 1949, Serial No. 103,248
2 Claims. (Cl. 190—37)



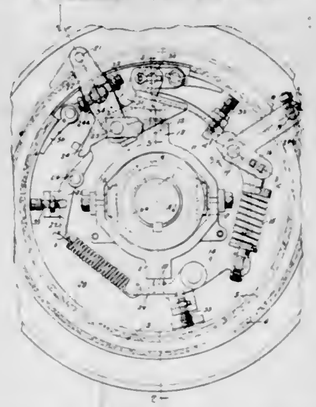
1. In a luggage case defined by walls meeting each other substantially in perpendicular relation to provide sharply defined corners, a cushioning strip of tough resilient material incapable of cold flow in the form of a curvilinear rod having a longitudinal groove therein defined by substantial perpendicularly arranged walls having a depth greater than one-half the corresponding thickness of the rod whereby the cushioning strip embraces the corner portion when in the assembled relation, a securing flange integral with the strip and extending therefrom as a continuation with a face defining the groove and fixed to the adjacent wall of the luggage for securing the cushioning strip in the assembled relation, and a facing strip covering the cushioning strip and flange and fixed along its edges to the adjacent walls of the luggage.

2,610,716
ACCELERATOR BRAKE CONTROL
Clarence R. Adams, Montrose, Robert C. Sherwood, West Hollywood, and B. Deleray Mouron, San Marino, Calif., assignors, by mesne assignments, to said Sherwood and said Mouron
Application November 14, 1949, Serial No. 127,192
8 Claims. (Cl. 192—3)



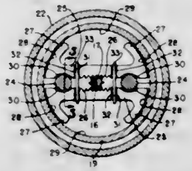
1. In a motor vehicle, a vacuum energized braking system, a vacuum manifold, a pipe connecting the vacuum manifold with the braking system, a braking valve unit comprising a housing interposed in said pipe and including adjustable linkage for a controlled application of vacuum to the braking system, an engine throttle valve lever for controlling said linkage, means yieldably retaining the throttle valve lever at its closed position, said linkage including a lost motion connection, said throttle valve lever being under the control of a driver adapted to be moved through an initial interval of travel for actuation of said braking valve unit progressively from an operative open to an inoperative closed position without the actuation of the throttle lever and including a second lost motion connection adapted to be actuated through an additional interval for normal functional actuation of the throttle control lever while the brake control valve remains closed, the improvement residing in: said second lost motion connection in said braking valve unit comprising a shaft axially movable in said braking valve unit under the influence of said throttle lever, valve means controlling said vacuum engageable by said shaft for controlling said valve means, a cam connected to said shaft and movable therewith, a number of cam followers mounted in said braking valve unit normally spring-urged laterally against said cam, said cam having a number of inclined surfaces against which said cam followers ride in a manner to urge the cam in an axial direction to assist said means yieldably retaining the throttle valve lever at its closed position for resisting normal engine throttling movement of said lever through said linkage during said initial interval of travel of said throttle valve lever, said cam being formed with an abutment, manipulative means under the control of a driver including extensible means engageable against said abutment to limit the axial movement of said cam and said shaft.

2,610,717
CLUTCH
Raymond A. Beckwith, Milwaukee, Wis., assignor to Koehring Company, Milwaukee, Wis., a corporation
Application July 27, 1948, Serial No. 40,801
6 Claims. (Cl. 192—35)



1. In clutch mechanism, in combination, a driving member, a driven member including a clutch drum, a main clutch band engaging the inner surface of said drum, a spider fixed to the driving member and rotatable therewith, a dead-end connection between the main clutch band and spider, a booster clutch band engaging the outer surface of the drum and having a dead end means connecting said dead end with the live end of the main clutch band and with the spider for rotation therewith, and shifting means on said spider for simultaneously applying the clutch bands to the clutch drum.

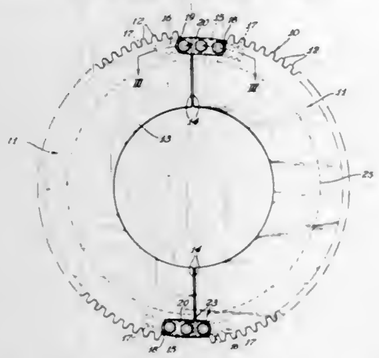
2,610,718
MECHANICAL CLUTCH
James E. Chapman, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application November 29, 1946, Serial No. 712,947
12 Claims. (Cl. 192—76)



12. In a releasing two-way drive connection, the combination of: a rotatable driving member; a driven member axially aligned with said driving member and having an annular wall surrounding the driving member; clutch members disposed within said annular wall having confronting inner faces disposed on opposite sides of said driving member; confronting grooves in said faces positioned on opposite sides of said driving member; spacing rollers seated in said grooves;

means positioned between the clutch members and between said rollers interconnecting the clutch members with the driving member for relatively shifting said clutch members in opposite directions into driving engagement with said annular wall in response to rotation of the driving member, whereby a driving connection is established between the driving and driven members; means for resisting rotation of the clutch members and spacing rollers with said driving member; and means resiliently urging said clutch members toward positions wherein the rollers are respectively seated in the associated of said grooves.

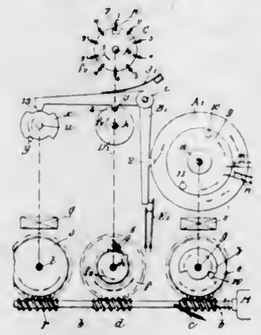
2,610,719
REINFORCED SPLIT CLUTCH PLATE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application October 19, 1948, Serial No. 55,290
5 Claims. (Cl. 192—107)



1. A clutch plate comprising a plurality of plate segments each composed of a fragmental ring portion having flat clutch faces, peripheral teeth, and radially extending free edges, an arcuate rigid connector strap embedded in each segment adjacent the radial edge thereof and radially inwardly from the peripheral teeth, one end portion of each of said straps being completely surrounded by the associated segment and the opposing end portion of each of said straps having the sides thereof exposed adjacent said radial edge, said straps of adjacent segments being adapted to be aligned in end-to-end relationship upon assembly of said segments, rigid connector links straddling the exposed end portions of aligned adjacent straps, and a nut and bolt assembly clamping the straps in extended surface contact to join the segments for forming a rigid clutch plate frame.

2,610,720
POSITIONING DEVICE
Antoine Jean Merles, Paris, France
Application October 14, 1947, Serial No. 779,704
In France April 22, 1947
3 Claims. (Cl. 192—142)

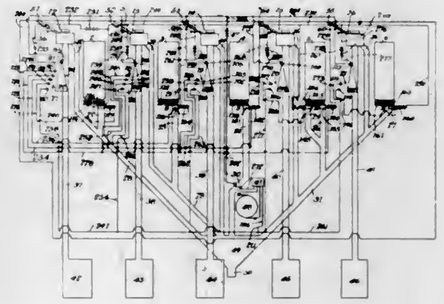
1. A device for positioning a shaft in a frame which comprises, in combination, a plurality of juxtaposed discs fixed on said shaft coaxially therewith, each disc being provided with a radial notch in its periphery, said notches being located in different radial planes respectively with respect to said shaft, a plurality of levers located in the planes of said discs respectively and pivoted in said frame about an axis parallel to said shaft, each of said levers being provided with a projection adapted to fit into the notch of the corresponding disc, spring means for urging said levers toward said discs respectively, a second shaft parallel to the first mentioned one, a plurality of selecting cams fixed on said second shaft, each cam being in the form of a circular disc with a notch at a point of the circumference thereof, said levers being provided with arms adapted to cooperate with said cams and to engage in the notches thereof respectively, said last mentioned notches being located in different radial planes respectively with respect to said second shaft, a third shaft parallel to the two first mentioned ones, a plurality of lever retracting cams fixed to said third shaft adapted to cooperate with said arms, abutment means for limiting the rotation of said third shaft to two angular positions, one for which said lever retracting cams are in operative position and the other for which said last mentioned



cams are in inoperative position, a motor, transmission means between said motor and said third shaft for bringing said third shaft in the first of said angular positions immediately upon the starting of said motor, switch means for presetting said selecting cams, transmission means between said motor and said first and second shafts for successively bringing said second mentioned shaft into the position set by said switch means and rotating said first mentioned shaft through its whole angular range of rotation to bring into the notch of its disc the projection of the lever the arm of which is opposite the notch of its selecting cam, the transmission means between the motor and the third shaft being arranged to bring said third shaft in said second position thereof immediately before said rotation of the first mentioned shaft, and means operative by said levers for stopping said motor after engagement of said last mentioned lever with its disc.

2,610,721
AUTOMATIC ELECTRIC SELECTIVE SILVER COIN CHANGER
Leonard L. Pruyn, Los Angeles, Calif.
Application November 4, 1946, Serial No. 707,735
1 Claim. (Cl. 194—10)

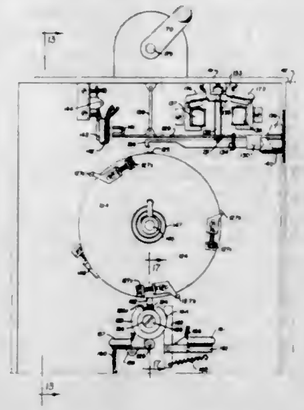
In a coin changer, a magazine formed with a vertical coin compartment, a partition turnably mounted in said magazine between the lower and upper ends of the magazine, said partition being provided with an opening therein arranged to register with said coin compartment or not according to the position to which said partition is turned, a pulley turnably mounted below the lower end of said magazine and provided with an opening therein arranged to register with the lower end of said compartment when the pulley is in its initial position, a stationary disc below said pulley provided with an opening out of registration with said coin compartment, a slide normally resting under said opening in said stationary disc, said compartment being adapted to receive coins stacked in said compartment below said partition with the lowermost coin resting upon said stationary disc in the opening in said pulley, said compartment being adapted to receive coins stacked in said compartment above said partition with the lowermost of said coins resting upon said partition when in its position with its opening out of registration with said coin compartment, a drive pulley, a belt extending over said drive pulley and said pulley under said magazine, coin-receiving means actuated by a coin deposited therein to be changed, means, operated by said coin-receiving means when a coin is deposited therein, for rotating said drive pulley, whereby the pulley under said magazine is rotated through said belt to bring the opening in said pulley and the coin therein into register with the opening in said stationary disc, so that said coin will drop from said pulley opening into the



opening in said stationary disc upon said slide, and means operated by said coin-receiving means when said coin is deposited therein, for withdrawing said slide from under said opening in said stationary disc, to permit said coin in said opening to drop therefrom, and means for turning said partition to bring its opening into register with said coin compartment to permit coins in said coin compartment above said partition to drop through said partition opening into said coin compartment below said partition to replace coins ejected from said compartment below said partition the means for turning the partition in the coin magazine comprising a partition provided with a notch in its edge, a casing enclosing the coin magazine and provided with a slot therein with one end of said slot in registration with said notch in said partition, when said partition is turned so that its opening registers with the coin compartment, and a key adapted to be inserted through said slot into said notch for turning said partition to cause the partition opening to register or not with said coin compartment.

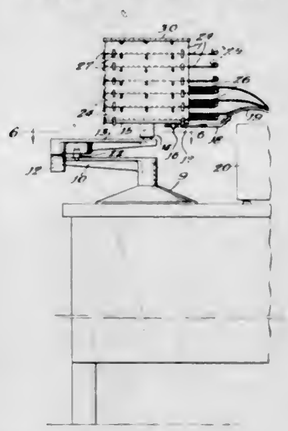
2,610,722
COIN CONTROLLED FLUID DISPENSING APPARATUS
Vern W. West, Bennett, Colo.
Application August 31, 1949, Serial No. 113,274
7 Claims. (Cl. 194—13)

1. In combination with a fluid dispensing apparatus having a liquid reservoir, a flow line therefrom, a pump in the flow line, a fluid meter in the flow line, a computing head operatively connected with the fluid meter, means for selectively activating and stopping the pump, means for setting the computing head to zero, and means for preventing the activation of the pump until the computing head is set to zero, scales and mechanisms in the computing head indicating the monetary value of the quantity of fluid registered by the meter, the additional elements comprising: a valve operable responsive to electrical impulses initiated at a switch, a switch and switch-operating mechanism including a hook movable to various positions, coin activated means adapted to move the hook to a position



predetermined by a coin inserted in the activating means, a rotatable disc carrying stops adapted to selectively engage said hook in its various positions, switch contacting means associated with the hook and adapted to activate the switch when moved into contact therewith, said switch contacting means being adapted to contact the switch responsive to the engagement of any one of the stops with the hook, and means for rotating the disc.

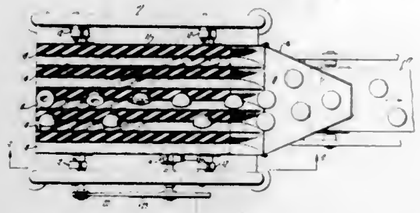
2,610,723
STATIONERY CARRIER
Lester K. Fleischmann, Highland Park, and Bernard A. Schroeder, Winnetka, Ill., assignors to Standard Manifold Company, a corporation of Illinois
Application November 19, 1949, Serial No. 128,272
5 Claims. (Cl. 197—133)



1. A support for zig-zag folded strips of stationery led to a writing machine having a reciprocating platen carriage, comprising: a base having a main body and a rearwardly extending portion which has a pair of laterally spaced piv-

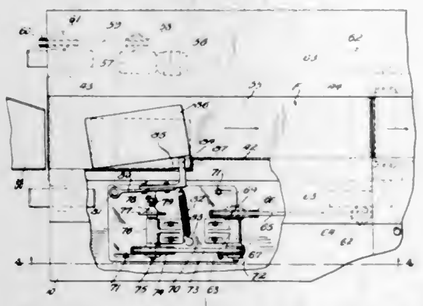
ots at its outer end; a pair of parallel horizontal supporting links mounted on said pivots and extending forwardly so that their forward ends are substantially over the main body of the base; and a stationery holder mounted on the forward ends of said links so that it will swing bodily in a horizontal plane.

2,610,724
PEACH HALF ORIENTOR
Edmond R. Dudley, Jr., Santa Clara, Calif.
Application April 4, 1951, Serial No. 219,236
6 Claims. (Cl. 198—33)



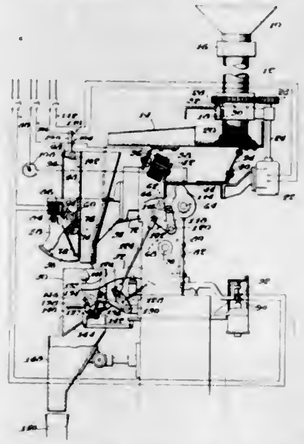
6. An orienting machine for halved fruit comprising an orienting tray disposed substantially horizontally but slightly inclined longitudinally, means for reciprocating said tray longitudinally, said tray having a plurality of parallel closely adjacent longitudinally extending V-shaped channels therein for receiving fruit at one end of the tray and along which channels the fruit will pass during reciprocation of the tray, the sides of said channels at the discharge ends thereof diverging into straight sides, the sides of said channels along the V-shaped portions thereof being formed with flattened V-shaped corrugations extending obliquely to the direction in which the channels extend, the corrugations at one side of each channel extending upwardly from the bottom of the channel toward one end of the tray and the corrugations at the other side of the same channel extending upwardly toward the opposite end of the tray.

2,610,725
SPACING MECHANISM
Warren J. Schieser and John F. Kelley, Columbus, Ohio, assignors to The Exact Weight Scale Company, Columbus, Ohio, a corporation of Ohio
Application November 16, 1949, Serial No. 127,708
9 Claims. (Cl. 198—34)



1. Apparatus for delivering commodities successively and in spaced order to a check-weighing mechanism, comprising a base structure defining a longitudinally extending courseway, a conveyor belt disposed in and movable longitudinally of said courseway, motor-driven means for driving said belt, a stop arranged in said courseway and projecting into the normal path of movement of commodities deposited on said belt for arresting advance of such commodities along said courseway in unison with the belt, and intermittently movable plunger means carried by said base structure contiguous to said stop, said plunger means being engageable with a commodity in contact with said stop to move such commodity to a position in which the same is free of the stop, whereby to effect continued advancement of the stop-removed commodity in unison with the belt.

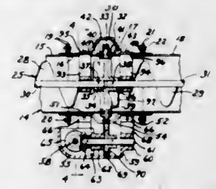
2,610,726
MATERIAL FEEDING CONVEYER
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application July 1, 1949, Serial No. 102,471
5 Claims. (Cl. 198—62)



1. In a packaging machine, in combination, material feeding means comprising a vibratory material feeding conveyer, a material supply conduit having its delivery end terminating a short distance from the feeding conveyer, said supply conduit during the operation of the machine forming a column of material with the bottom of the column supported in said conveyer, and means for rotating the supply conduit to impart an axial rotary movement of the material emanating from the conduit while such material is simultaneously subjected to vibratory movement by said conveyer whereby to facilitate withdrawal of the material from the supply conduit.

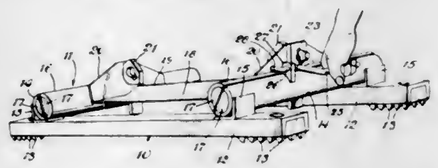
2,610,727
SCREW CONVEYER
Royal L. Beldin, Davenport, Iowa, assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 16, 1950, Serial No. 196,069
2 Claims. (Cl. 198—213)

1. A screw conveyor, comprising: a pair of tubes positioned in coaxial end-to-end relation with their proximate ends spaced apart, each tube having an opening through its wall adjacent its end that is proximate to the other tube; a pair of coaxial shaft means respectively within the tubes and having proximate ends generally radially alined with the spaced ends of the tubes; a drive member having a circular body of larger diameter than at least one of the tubes and a hub having coaxial shaft-receiving means at opposite sides thereof, said member being positioned in the space between the ends of the tubes and concentrically therewith, the body of the member extending radially outwardly through said space and the proximate ends of the shaft means being received respectively in said shaft-receiving



means of the hub; a connector outside the tube spanning the drive member and connected to the tubes for interconnecting the tubes; and said connector having a pair of supports thereon projecting respectively through the aforesaid openings in the tube and respectively journalling the shaft means.

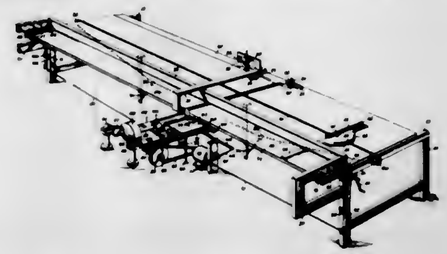
2,610,728
SLIDING FRAME FOR SHAKER CONVEYERS
Robert Moulton, Norristown, and Carrell J. Stover, Jenkintown, Pa., assignors to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 6, 1951, Serial No. 214,175
6 Claims. (Cl. 198—220)



4. In a sliding frame for supporting a shaker conveyor trough line, a base section provided with tracks, a reciprocal frame section provided with tracks reciprocal to and fro along the tracks of the base section, spaced apart apertured lugs arranged in pairs and secured to the tracks of the base section, and handles each comprising a U-shaped hand grip portion provided with oppositely extending end portions pivotally mounted in the apertures of a pair of said lugs and a brake section extending from one of said ends of each handle in a direction to engage the reciprocal frame section when the respective handle has been moved about the pivoted end portions thereof in bodily moving the frame.

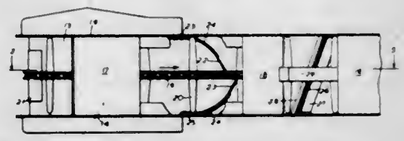
2,610,729
PUSHER FEED SAW TABLE LOADING DEVICE
Joe Marcantel, Oakdale, La., assignor to Hillyer Deutsch Edwards, Inc., Oakdale, La., a corporation of Louisiana
Application July 30, 1948, Serial No. 41,647
13 Claims. (Cl. 198—221)

1. A loading device comprising a table, a pusher mounted on said table means for driving said pusher relative to said table, including a rotary element, means providing a driving connection between said rotary element and said pusher, power delivery means, reversible power-transmission means interposed between said power-delivery means and said rotary element, means resiliently urging said transmission means to a position to transmit power to said rotary element in one direction, latch means operable, at times, to hold said transmission means in a position to transmit power to said rotary element in the other direction, means movable with said



pusher for releasing said latch means, after movement of said pusher in said other direction to a predetermined degree, and means actuated by said pusher, upon movement thereof to a predetermined degree in said one direction, to shift said transmission means to a neutral position.

2,610,730
SCRAPER CONVEYER
William Weir, Glasgow, Scotland, assignor to Mavor & Coulson, Limited, Glasgow, Scotland
Application July 14, 1950, Serial No. 173,883
In Great Britain December 3, 1948
6 Claims. (Cl. 198—229)

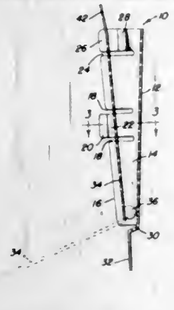


1. A scraper conveyor comprising a frame structure, an endless conveyor chain, and endless series of scrapers each secured to said chain and all arranged to travel with it lengthwise of said structure in an upper working run and a lower return run, and stripping means mounted on said structure, said means consisting of at least one yieldable resilient stripping arm interposed above said lower return run so as to extend closely to the scrapers and chain and arranged crosswise at an inclination to the chain so as to press laterally and yieldingly against mineral pieces entrained thereby in order to discharge said pieces from the conveyor.

2,610,731
PAINTBRUSH ATTACHMENT
Samuel Austin, Hartford, Conn.
Application October 10, 1949, Serial No. 120,596
5 Claims. (Cl. 206—15.1)

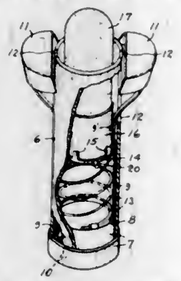
1. A device for retaining the head of a brush raised above the bottom of a container, said device comprising an elongated base plate having upper and lower end portions, a stop at the lower end portion of said base plate for limiting downward sliding movement of a brush relative to said base plate, a bearing extension projecting laterally from said stop and offset from said base plate, a pressure plate hinged to the lower end portion of said base plate, means forming an integral part of said base plate for attaching the base plate to a brush head and for also retaining the pressure plate toward the base plate,

and means forming part of said base plate for confining a brush relative to the base plate and



also retaining the pressure plate in juxtaposition with the base plate.

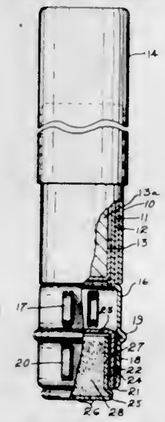
2,610,732
RECEPTACLE FOR LIPSTICK HOLDERS AND LIPSTICKS
Verna E. Calhoun, Seattle, Wash.
Application December 21, 1949, Serial No. 134,299
3 Claims. (Cl. 206—56)



1. A receptacle for a lipstick holder with a lipstick therein comprising a tubular cylindrical housing open at the top end; a compression spring disposed in the bottom portion of said housing adapted to exert an upward pressure against a lipstick holder in the housing; spring retracting means operable from the exterior of said housing; two semi-cylindrical cover members; and two diametrically opposite resilient cover supporting members disposed within the housing supporting said cover members substantially flush with each other and adjacent the top end of said housing for transverse opening and closing movement relative to said housing, said cover supporting members extending lengthwise within said housing and being secured to the housing a substantial distance below the top end thereof whereby said cover supporting members are held against longitudinal movement in said housing, said cover supporting members having convergently inclined portions positioned to be engaged by the lipstick holder when said lipstick holder is moved upwardly by the action of said spring, whereby upward movement of the lipstick holder will open the cover members.

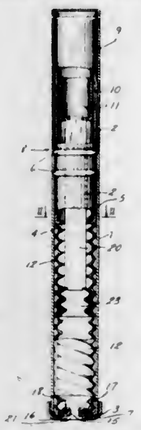
2,610,733
LIPSTICK CONTAINER
John J. Balasevich, Woodbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application March 3, 1950, Serial No. 147,487
1 Claim. (Cl. 206—56)

A lipstick container of the swivel type comprising an exterior casing and an interior shell rotatably mounted in said casing, an operating head formed as an integral part of said interior shell and located entirely outside of said casing, said head being divided into upper and lower sections by an intermediate circumferential raised rib, the upper and lower sections having a plurality of elongated ribs arranged longitudinally on and equally positioned about said sections, an elongated cover cap imperforate except for its open end and of a length to cover the casing as well as the upper section of said head, said ribs of said upper section having a crest



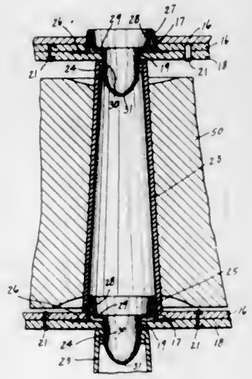
diameter sufficiently greater than the interior diameter of said cap so as to frictionally hold said cap on said upper section in spaced relation to said casing, and the ribs on said lower section having a crest diameter throughout their length sufficiently greater than the interior diameter of said cap so as to distort the open end of said cap when assembled on said lower section and create sufficient friction between said ribs and said cap so as to firmly, non-rotatably and non-tiltably maintain said cap on said lower section in any position that the cap may be assembled thereupon.

2,610,734
LIPSTICK HOLDER AND THE LIKE
Edward Noyack, Seymour, Conn., assignor to The Risdon Manufacturing Company, Naugatuck, Conn., a corporation of Connecticut
Application October 5, 1950, Serial No. 188,575
4 Claims. (Cl. 206—56)



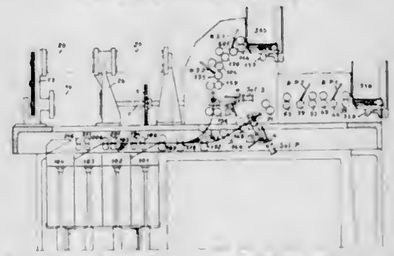
1. In a holder for sticks, an outer shell having an opening at both ends and an internal projection at its lower end, a diaphragm located between the ends of and within the outer shell and having a non-circular opening through it, an elevator within the outer shell between the diaphragm and the upper end of said shell and movable longitudinally from a projected to a retracted position and vice versa, a convoluted tube within the outer shell between the diaphragm and the lower end of said shell, rotatable therein and resting on the internal projection of the lower end of the outer shell, a second tube with convolutions disposed within the first mentioned tube and with its convolutions inter-engaging with the convolutions of the first mentioned tube, an elongated carrier passing through the opening in the diaphragm and non-circular in section to prevent rotation therein, attached at its upper end to the elevator and at its lower end attached to the second convoluted tube, and an operating member extending into the lower end of the outer shell and attached to the lower end of the first mentioned tube and bearing against said internal projection of the outer shell at the opposite side of said projection from said first mentioned tube.

2,610,735
MULTIPLE CENTERING SUPPORT
Kenneth C. Ferguson, Indianapolis, Ind., assignor to Inland Container Corporation, Indianapolis, Ind., a corporation
Application July 26, 1949, Serial No. 106,876
3 Claims. (Cl. 206—65)



1. A multiple centering support comprising a pair of rigid partition boards secured together having axially related openings therein, the lowermost opening being of less diameter than the uppermost opening, a locator having a laterally extending flange embedded between said rigid boards to be gripped and anchored thereby, an upwardly extending annular centering projection integral with said flange protruding through the upper and larger of the openings, and a downwardly extending annular centering projection of less diameter than said upwardly extending projection integral with said flange extending therefrom through the lower opening of less diameter.

2,610,736
MACHINE FOR COMPARING AND CLASSIFYING RECORD CARDS
Knut Andreas Knutsen, Paris, France, assignor to Compagnie des Machines Bull (Societe Anonyme), Paris, France, a French company
Application December 17, 1946, Serial No. 716,796
In France February 19, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 19, 1965
8 Claims. (Cl. 209—110)

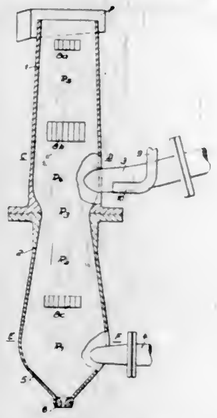


8. In a machine for comparing and classifying record cards in accordance with items recorded on cards moved in succession through the machine, storage means for storing an item derived from one card, storage means for storing an item derived from another card, said storage means comprising a plurality of groups of storage relays, each group corresponding to one denominational order of the items to be compared and comprising one storage relay for each digit value from 1 to 9, a plurality of contacts each controlled by one of said storage relays, commutator means cooperating with said storage relays either for selecting the proper item representing storage relays or for reading out the previously established setting of said storage relays, comparing means for comparing an item derived from said one card and stored in the corresponding storage means upon the storing of an item derived from said other card, said comparing means comprising for each denominational order of the items to be compared, a pair of pick-up relays, electric circuit connections for feeding said pick-up relays with items representing pulses when the items to be compared are being stored in or read out from said storage means irrespective of the relative timing of said item representing pulses, a pair of holding relays each controlled by one of said pick-up relays through a controlling circuit, a pair of holding contacts each controlled by one of said holding relays, an additional relay completing, through one of said holding contacts, when closed, a holding circuit for the corresponding holding relay, said additional relay, when energized, operating a contact included in said controlling circuit common to both said holding relays, thereby preventing the momentary energization of one holding relay by an item representing pulse when the other holding relay has been previously energized during the same comparing cycle, and electric circuit connections and devices controlled by said holding relays for reading out the relationship between the items being read out and stored.

2,610,737
PROCESS OF AND APPARATUS FOR STRICTLY LIMITED SEPARATION OF MIXTURES BY THE SPEED OF FALL IN LIQUID MEDIA
Theodor Eder, Vienna, Austria
Application March 18, 1948, Serial No. 15,584
In Austria November 11, 1947
8 Claims. (Cl. 209—159)

1. A process for the selective classification of grains by their different speeds of fall in a column

of rising liquid, which process comprises admitting a separating liquid to the lower part of a separator vessel to form a column of rising liquid, introducing into a liquid suspension of the grains to be classified a liquid jet for agitating and loosening up said liquid suspension, directly admitting said liquid suspension in a loosened-up condition to the column of liquid approximately at the center of the height thereof immediately



after the injection of the liquid jet into said suspension, controlling the admission to said liquid column, of said separating liquid, of the liquid for the suspension of grains, and of the liquid for said jet, for constant relative rates and accelerating gradually and practically continuously the vertical velocity of the liquid in the vessel from the point of admission of the separating liquid to the top of the column.

2,610,738

FROTH FLOTATION OF MONAZITE FROM HEAVY GRAVITY MINERALS

Robert E. Cuthbertson, Denver, Colo., assignor to Climax Molybdenum Company, New York, N. Y., a corporation of Delaware

No Drawing. Application June 2, 1951, Serial No. 229,648

7 Claims. (Cl. 209—167)

1. A froth flotation process for separating monazite from heavy gravity minerals selected from the group consisting of wolframite, rutile and cassiterite, which comprises adding to an acid pulp concentrate containing monazite and at least one of the above mentioned heavy gravity minerals a cationic flotation agent of the amine type and a starchy product so that a froth is formed when air is passed through the pulp whereby monazite is collected in the flotation froth and at least one of the heavy gravity minerals selected from the group consisting of wolframite, rutile and cassiterite remain in the flotation tailing.

2,610,739

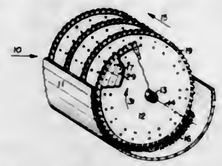
WEARING SHOES FOR ORE SEPARATORS

Edmund C. Bitzer, Denver, Colo., assignor to Colorado Iron Works Company, Denver, Colo., a corporation of Maine

Application October 27, 1950, Serial No. 192,479

6 Claims. (Cl. 209—464)

1. An ore separator comprising an inclined tank containing ore and liquid, a rotatable ore moving member having a spiral flight disposed in the tank, and a plurality of wearing shoes secured to said flight adjacent its peripheral edge, said shoes having teeth thereon that extend beyond the peripheral edge and form means adapted to rake into and loosen an ore bed disposed be-



tween the flight and tank, whereby the bed is maintained unconsolidated, liquid drainage therethrough is increased, and frictional drag between the bed and wearing shoes is reduced.

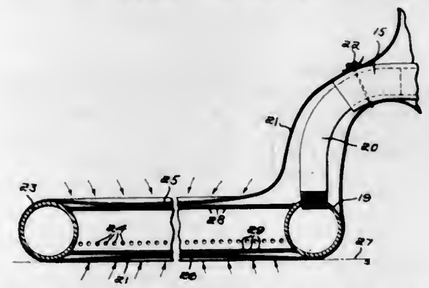
2,610,740

FILTER FOR COOKING FATS

Robert F. Hunter, Quincy, Mass.

Application December 13, 1950, Serial No. 200,567

1 Claim. (Cl. 210—94)



In apparatus for filtering cooking fat drained into a receptacle, a filter removably disposable on the bottom of said receptacle and comprising a metal frame including a ring conduit of tubular cross-section, said conduit having openings in its inner wall, perforated plates disposed in spaced, substantially parallel relationship across the center of said ring conduit and on opposite sides of the plane of said openings, at least one of said plates being disposed in a plane spaced inwardly from the adjacent exterior surface plane of said ring conduit, a hose connected to said conduit, and a flexible fabric bag enclosing said frame and having its mouth constricted around said hose, the outer surface of said bag being coated with a composition comprising diatomaceous earth.

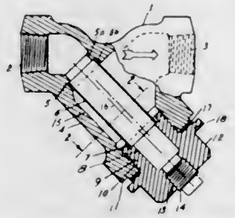
2,610,741

STRAINER

John H. Schmid, Erie, Pa., assignor to J. A. Zurn Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application June 17, 1950, Serial No. 168,677

1 Claim. (Cl. 210—165)



A strainer member comprising a cylindrical body with a laterally extending inlet and outlet

in axial alignment with each other, a wall between said inlet and outlet and extending transversely of said body having an axially offset, counterbored, vertically extending aperture, said aperture being offset from the axis of said cylindrical body in the direction of said inlet, a cylindrical apertured strainer member having the upper end thereof seated in said counterbore in said wall, a removable plug axially aligned with the offset aperture in said wall having a bore with an oval shaped counterbore for seating the opposite end of said strainer member, the plug counterbore being oval in shape in a plane transverse of the axis of the plug, the minor axis of the oval plug counterbore being less than the diameter of the strainer and the major axis of the oval plug counterbore being greater than the diameter of the strainer whereby a wedging action results between the oval plug counterbore and the strainer.

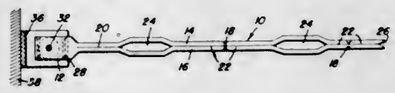
2,610,742

OUTDOOR CLOTHES BAR

John Stanton, Delhi, N. Y.

Application December 27, 1949, Serial No. 135,052

5 Claims. (Cl. 211—89)



1. A clothing supporting device comprising a supporting block, said block having a pair of integral resilient arms projecting in parallel relation therefrom, each of said arms being of substantially greater width than thickness, said arms being fixedly secured to each other at a position remote from the block with the broad faces of the arms being in engagement at the remote position and also at a second position intermediate the block and the remote position as well as a substantial portion of the distance between the positions, said arms being spaced from each other intermediate said positions by being divergent from one of said positions and thence convergent toward the other position, and said block having a pivot bore therethrough for receiving a supporting pivot.

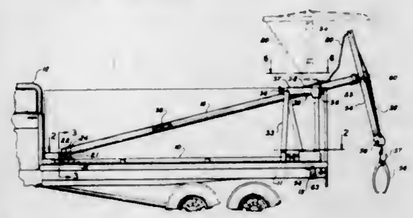
2,610,743

HOISTING MECHANISM

Mark A. English, San Gabriel, and Robert O. Borst, Pasadena, Calif.; said Borst assignor to said English

Application July 18, 1949, Serial No. 105,426

6 Claims. (Cl. 212—9)



1. In a hoisting mechanism, the combination which comprises a track, a slider slidably mounted in the track, a mast pivotally mounted at one end to the slider, a cross arm mounted on the opposite end of the mast, a bracket, means mounting the bracket above the track, a tubular sleeve, means connected to the bracket and the sleeve pivotally supporting the sleeve on a horizontal axis transverse to the axis of the track, means for adjusting the location of the supporting means for the sleeve along a line parallel to the longitudinal axis of the track, the mast being slidably mounted in the sleeve, an annular ring affixed to the upper end of the sleeve, and flexible means affixed to an end of the cross arm and detachably affixed to the annular ring.

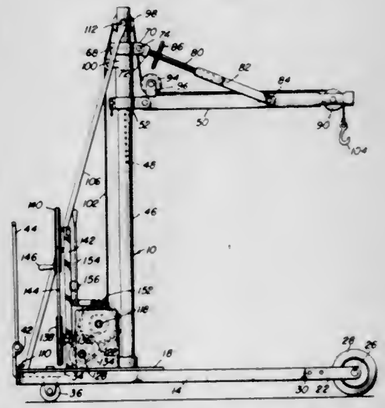
2,610,744

PORTABLE FLOOR HOIST

Ralph R. Dague, Tuscola, Ill.

Application April 6, 1948, Serial No. 19,235

3 Claims. (Cl. 212—57)



1. In a portable floor hoist having a base and an upright secured thereto, an elongated longitudinally slit sleeve slidably engaged on said upright, means for clampingly positioning said sleeve at a preselected position on said upright, a boom pivotally connected to said first named means, and second means on said sleeve and connected to said boom for adjustably supporting the outer end thereof.

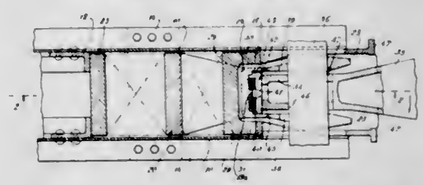
2,610,745

COUPLER AND YOKE CONSTRUCTIONS

Walter Cabble Dilg, Hewlett, and George Rolfe Munro, Harbor Green, N. Y., assignors to Waugh Equipment Company, New York, N. Y., a corporation of Maine

Application March 28, 1950, Serial No. 152,486

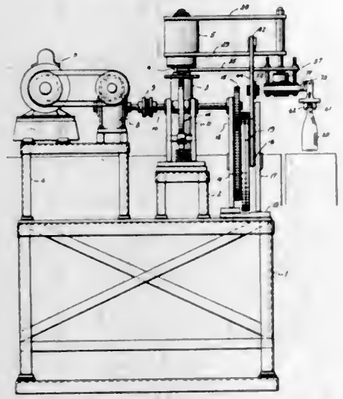
3 Claims. (Cl. 213—19)



1. In a railway vehicle having spaced longitudinal sills provided with spaced front and rear abutments on their opposed faces and elongated slots between the ends of the sills and the front abutments, a coupler and draft gear combination, which comprises a yoke positioned between the sills, cushioning means interposed between the yoke and respective pairs of abutments, the yoke having a front bar containing a recess in its forward face and a pair of side wings projecting forwardly from the front bar, a coupler

having a shank extending between the wings, the shank and wings having slots aligned with the sill slots, a key extending through all the slots, a resilient element seated in the recess and projecting out of the recess, a follower bearing upon the resilient element and engaging the rear end of the shank, the resilient element and the follower urging the shank forward to cause the rear end of the shank slot to hold the key against the forward ends of the wing slots, and upper and lower flanges on the yoke for holding the follower in place.

2,610,746
BOTTLE STACKER
Arch L. Steck, Oil City, Pa.
Application December 8, 1948, Serial No. 64,130
3 Claims. (Cl. 214—1)



1. Apparatus for stacking rows of bottles or the like comprising a vertical spindle mounted for rotary and axial movement, means for actuating said spindle including means for coordinating and limiting said rotary and axial movements, a gripper frame having a radial arm mounted for movement with said spindle and having a pair of gripper bars pivotally mounted on said arm, means for maintaining the axes of said bars in a fixed lateral plane, and actuating mechanism for said gripper bars, said actuating mechanism comprising a plurality of toggle links connected to said gripper bars and an actuating link therefor, a movable frame for said actuating link, a star wheel constituting an abutment for said actuating link, a ratchet wheel for actuating said star wheel, and a pawl carried by said movable frame for engaging the teeth of the ratchet whereby the star wheel is indexed in response to vertical movement of said gripper mechanism to actuate the toggle links to close and open said gripper bars.

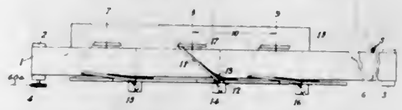
2,610,747
AUTOMOBILE LIFT
Carlyle Hall, Berkeley, Calif.
Application May 2, 1951, Serial No. 224,163
5 Claims. (Cl. 214—1)

1. A vehicle lifting and turning means comprising upright opposite end frames, a lifting beam associated with each of the said end frames, means for raising and lowering said lifting beams along their respective frames, a vehicle lifting frame extended between the said end frames and adapted to be disposed at a horizontal level for the running of a vehicle thereonto, supporting trunnions on the opposite ends of the vehicle lifting frame rotatably mounted by the said lifting beam for the turning of the lifting frame about the



axial lines of the trunnions; one of said trunnions being at a level substantially above that of the other.

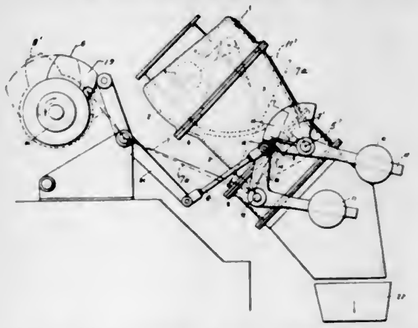
2,610,748
MACHINE FOR SORTING GOODS
David Percival Larham, Southampton, England
Application July 21, 1947, Serial No. 762,337
In Great Britain April 11, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires April 11, 1959
6 Claims. (Cl. 214—11)



1. Article sorting machine comprising (A) a continuously moving conveyor from which the articles are removed at a series of n removal stations spaced apart a basic distance or a multiple thereof and allocated respectively to the different characteristics of the articles; (B) n deflectors, one at each removal station, said deflectors normally occupying an inoperative position in which they lie clear of the path of the articles on the conveyor and being selectively pre-settable to an operative position in which they lie in said path and are effective to deflect the articles from the conveyor, the articles being placed on the conveyor at a datum station or predatum station distant from the first of the series of deflectors by said basic distance or a multiple thereof and in such timed sequence as to result in the articles being spaced along the conveyor at a distance or distances apart equal to said basic distance or a multiple thereof, and the deflectors being automatically returned to the inoperative position by means operating under the control of the deflected article, and (C) a pre-setting mechanism comprising in respect of each deflector (a) an electromagnetic actuator therefor adapted to move the deflector to the operated position and (b) a system of control circuits for the actuator, said system comprising as regards the deflector most remote from the datum or pre-datum station (1) n main circuits arranged in parallel with one another and each in series with the actuator and (2) n auxiliary circuits, and as regards each successive deflector progressively nearer the datum or pre-datum station, a number of main circuits as (1) and auxiliary circuits as (2) which is one less than the number in the case of the preceding deflector, each main circuit comprising a main switch which is operated to close the circuit at the instant of placing an article on the conveyor at the datum station or of passage of an article therepast, and a secondary switch which is momentarily operated to close the circuit at time intervals which are proportional to the speed of the conveyor, and each

auxiliary circuit, the function of which is, through the holding-in action of a coil in the circuit, to retain the main switch of the corresponding main circuit in the operated condition until the corresponding secondary switch has operated to complete the circuit, including, in series with said coil, a switch which is momentarily operated at the time intervals aforesaid to open the circuit upon completion of movement of the deflector to the operated position; the secondary switches of the main circuits and the switches of the auxiliary circuits being operated in seriatim and at the time intervals aforesaid by a mechanism operating synchronously with the conveyor, which mechanism in the case of each of the control circuits except the one associated with the first deflector of the series, operates also a selector switch functioning to determine which of the main circuits shall be operative to actuate the deflector in any given presetting operation.

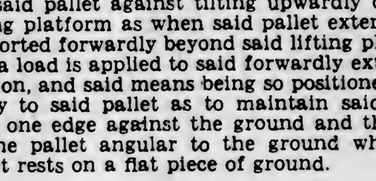
2,610,749
AIR-LOCK SYSTEM FOR CONTINUOUSLY OPERATED VERTICAL CEMENT KILNS
Francis Paul Somogyi, London, England
Application April 26, 1950, Serial No. 158,106
In Great Britain November 18, 1949
10 Claims. (Cl. 214—35)



1. An air-lock system for a continuously operated vertical cement kiln having a chute with an inclined floor down which material discharged from the kiln flows, the said chute comprising a flap-gate pivotally mounted in the chute, restoring means adapted to hold the flap-gate in its closed position, periodically operated actuating means for opening the flap-gate against the action of the restoring means, locking means adapted to tighten the closure and also to keep the flap-gate in its closed position between the periods when it is caused to open by the periodically operated actuating means and lock-releasing means operable in timed relationship with said actuating means.

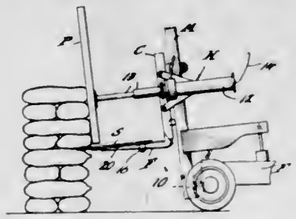
2,610,750
MOTOR VEHICLE WHEEL TRUCK
Reed O. Hulbert, Ashtabula, Ohio
Application October 1, 1948, Serial No. 52,305
13 Claims. (Cl. 214—85)

1. In a motor vehicle wheel truck, a wheeled carriage body having a horizontal bed for supporting a vehicle wheel, and a ramp having an extreme end edge hinged to one end of the bed and having on its upper surface block means including a portion carried by the upper surface of the ramp adapted, when the ramp is swung upwardly, to engage the bed and thereby limit said swinging movement to a position of the ramp in which it overhangs the bed and makes with the bed an acute angle small enough for the free end



of the ramp to be depressed into the tread surface of the vehicle wheel and thereby obstruct rolling of the vehicle wheel back off the bed.

2,610,751
LIFT TRUCK
George Bevan, Norfolk, Va., assignor to Freight Handling Corporation, a corporation of Virginia
Application May 12, 1947, Serial No. 747,361
4 Claims. (Cl. 214—113)

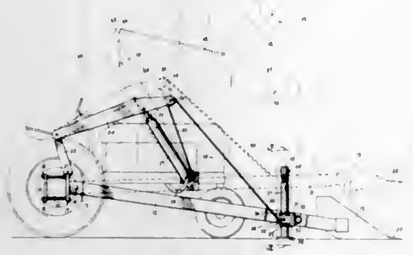


4. In a combination of the class described, a lift truck having a lifting platform adapted to carry a load by application under the load and having a detent-engaging surface, a thin sheet-like pallet adapted to be lifted by said lifting platform, means extending downwardly from said pallet and coacting with said detent-engaging surface for locking said pallet against substantial sliding relatively to said lifting platform when resting in a predetermined position on said platform, said means including a portion for locking said pallet against tilting upwardly off said lifting platform as when said pallet extends unsupported forwardly beyond said lifting platform and a load is applied to said forwardly extending portion, and said means being so positioned relatively to said pallet as to maintain said pallet with one edge against the ground and the floor of the pallet angular to the ground when the pallet rests on a flat piece of ground.

2,610,752
LOAD LIFTING MECHANISM
Herman E. Luebbers, Fort Dodge, Iowa
Application January 9, 1950, Serial No. 137,603
5 Claims. (Cl. 214—131)

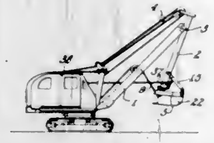
2. In combination with a vehicle, an elongated beam having its rear end pivoted to said vehicle, a load receiving member on the forward end of said elongated beam, a lifting arm vertically pivotally secured at its rear end to said tractor, a pulley wheel on the forward end of said lifting arm, a collar member secured to the forward end portion of said elongated beam with its cylindrical post-receiving portion disposed vertically, a post member mounted through said collar member so that its lower end contacts and bears against the ground as the load is initially lifted, said collar member slidable on said post member, a pulley wheel mounted on the forward end por-

tion of said elongated beam, a cable member secured at one end to the upper portion of said



post and at the other end to said vehicle and said cable reeved over the pulley on said lifting arm and under the pulley on said elongated beam.

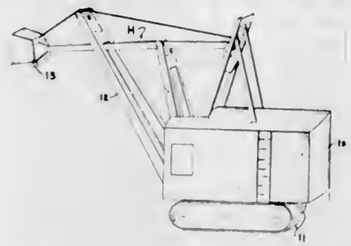
2,610,753
DRAG BUCKET
George G. Morin, South Hadley Falls, Mass., assignor to Morin Manufacturing Company, Incorporated, Holyoke, Mass., a corporation of Massachusetts
Application October 11, 1948, Serial No. 53,789
2 Claims. (Cl. 214—138)



1. A drag bucket for earth removal and the like which comprises a bucket member having spaced side members, a bottom member and one end member rigidly connected together to form a unitary bucket open at its top and one end, the other end being closed, a frame having spaced longitudinal side members between which the bucket is positioned, the ends of the side members adjacent the closed end of the bucket being pivoted to the side members of the bucket adjacent said closed end, a frame cross member connecting the ends of the side frame members adjacent the open end of the bucket, a bucket lifting member connected to said frame at three points whereby substantial tipping of the frame relative to the lifting means is prevented, a member connected to said frame adjacent the open end of the bucket for imparting swinging movement to the frame, bucket and lifting means, latch means carried by the frame for releasably connecting the open end of the bucket to the frame and means operable independently of both said bucket lifting member and swing imparting member to release said latch in any position of movement of the frame and bucket.

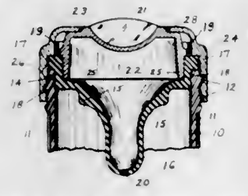
2,610,754
DIPPER HANDLE
Leo A. Inskeep, Cadiz, Ohio
Application October 20, 1949, Serial No. 122,515
2 Claims. (Cl. 214—145)

1. In a power excavator, a dipper handle comprising a tubular core structure and a box-like structure enclosing said tubular core structure, said tubular core structure consisting of a pair of tubular core members arranged in spaced relation, a rib spanning the gap between said core members and having its opposite edges welded to the respective core members, said box-like structure comprising a pair of oppositely disposed large plates and a pair of oppositely disposed small plates, said plates having edges in meet-



ing engagement, welded connections at said meeting edges, a welded connection between each of said small plates and one of said core members, and welded connections between each of said large plates and each of said core members.

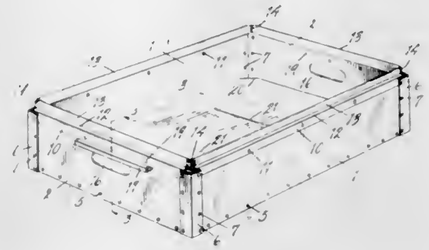
2,610,755
NURSING UNIT
Joseph A. Gits, Chicago, Ill., assignor of one-half to Jules P. Gits, Chicago, Ill.
Application October 10, 1949, Serial No. 120,528
9 Claims. (Cl. 215—11)



1. In a nursing unit that comprises a receptacle, a nipple, and a retainer, the improvement which comprises an opening for inlet of air in a wall of the receptacle, said opening being spaced a short distance away from the open end of said receptacle, an axially-directed wall section on said nipple, said wall section being dimensioned to telescope within said open end of said receptacle and to underlie and close said opening for inlet of air whenever said nipple is in position for storage, said wall section being wholly spaced away from said opening for inlet of air whenever said nipple is in nursing position, said nipple having a downwardly depending skirt thereon that overlies and selectively closes said opening in said receptacle and that selectively seals said opening to resist flow of fluid outwardly through said opening, and a backing element, said backing element being impervious and spanning the open end of said nipple whereby said backing element and said nipple coact to form an enclosure with just one opening therein, said backing element having a generally cylindrical body portion dimensioned to telescope within the axially-directed wall section of said nipple to press said wall section into sealing engagement with said opening for inlet of air.

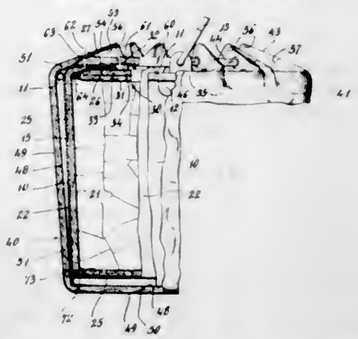
2,610,756
STRAIGHT SIDED STACKING TOTE OR PACKING BOX
Wilson F. Best, Grand Rapids, Mich.
Application April 7, 1950, Serial No. 154,666
5 Claims. (Cl. 220—4)

4. A straight sided stacking box comprising fiber board side and end walls, a sheet metal bottom disposed within said walls in inset relation to their lower edges and having downturned side and end flanges riveted to and constituting reenforcing elements for the said side and end walls, the lower edges of said flanges being substantially flush with the bottom edges of the side walls, the corners of the bottom being beveled to provide ventilating and drain openings, said bottom having transverse reenforcing ribs, angled corner joint pieces embracing the adjacent ends of the side and end walls and riveted thereto, sheet metal side and end rim members



of angled section disposed in inwardly facing relation to the walls and with their vertical legs riveted upon the outer sides of the side and end walls, their horizontal inwardly projecting legs constituting supporting shoulders for a superimposed crate and terminating at their inner edges in inset upwardly projecting flanges engageable within the walls of a superimposed box below the bottom thereof, corner irons connecting the adjacent ends of said rim flanges, said corner joint pieces being riveted to said rim members and to said bottom flanges and constituting vertical tie members therefor.

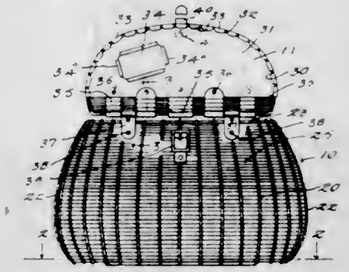
2,610,757
INSULATED CONTAINER
Jan S. Irvine, Pelham, N. Y., assignor to Plastic Sheet Fabrication, Inc., New York, N. Y., a corporation of New York
Application February 10, 1947, Serial No. 727,655
14 Claims. (Cl. 220—9)



5. A container consisting of a composite assembly of several units including a pail or bucket or the like as a base unit, having a supporting handle structure at the upper edge, a second unit comprising an inner lining fitted in said pail including spaced layers of a flexible material with insulating material between them and provided with a flexible rim portion adapted to fold

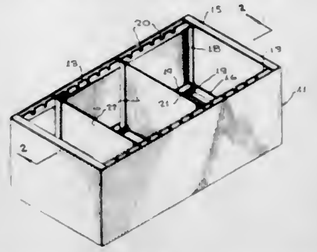
inward over the contents of the container, an outer covering member fitted around said pail and having spaced layers of flexible material with insulating packing between them, and cover means at the top of said pail for both the inner and outer units comprising insulating material between spaced layers of a flexible material and directly overlying the contents of the inner lining within the pail.

2,610,758
FISHING CREEL
Patrick H. Scherer, Hot Springs, S. Dak.
Application August 1, 1950, Serial No. 177,107
3 Claims. (Cl. 220—19)



1. In a fishing creel, a base plate comprised of a single doubled and folded sheet of lightweight metal open at its ends and provided with spaced apertures along the fold line thereof, a series of wire members extending longitudinally and transversely through said base plate, the transversely extending wires extending through said apertures and upwardly curved at their opposite ends to form side and end uprights, a unitary wire rim at the top of said creel to which the ends of said uprights are secured and a single unitary strip of flat metallic material interwoven about all of said uprights, the top and bottom edges of adjacent interwoven portions contacting each other to form substantially closed side and end walls and a portion of the bottom of said creel.

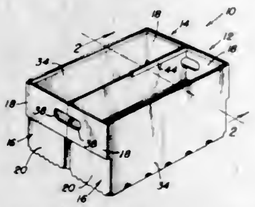
2,610,759
FROZEN FOOD LOCKER PARTITION DEVICE
Ernest H. Slade, Los Alamos, N. Mex.
Application April 3, 1951, Serial No. 219,070
2 Claims. (Cl. 220—22)



1. In a frozen food locker of the character described, a removable rectangular frame having parallel top and bottom pairs of longitudinal side elements, the bottom side elements comprising upwardly facing channel bars whose inner flanges are inwardly offset relative to the top side elements, said top side elements and said inner flanges being formed with spaced upwardly facing notches, a transverse partition member receivable in said frame, and means on said par-

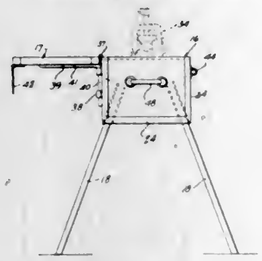
tition member lockingly engageable with said notches and being arranged for disengagement responsive to elevation of the partition member relative to the frame.

2,610,760
SECTIONAL CONTAINER
Dexter D. Ball, Cincinnati, Ohio
Application August 30, 1948, Serial No. 46,817
6 Claims. (Cl. 220—23.4)



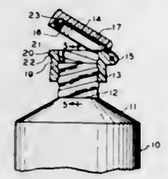
1. A sectional container comprising first and second substantially rectangular bodies disposed in side by side relationship, each of said bodies having a bottom wall, a pair of end walls and inner and outer side walls, said inner side walls each having upper and lower sections that are spaced parallel to each other and disposed one above the other and a connecting section between each of said upper and lower sections and perpendicular thereto, means carried by the upper section of said first body engaging the upper section of the second body and retaining the upper sections of said bodies fixed relative to each other and in abutting relationship, the lower section of said first body being spaced parallel to the lower section of said second body to provide a longitudinal opening, the outer side walls of said body being flat and smooth throughout their lengths and widths.

2,610,761
PLUMBER'S UTILITY CHEST AND PIPE BENCH
Wilfred Fleming, Pontiac, Mich.
Application January 21, 1949, Serial No. 71,779
1 Claim. (Cl. 220—32)



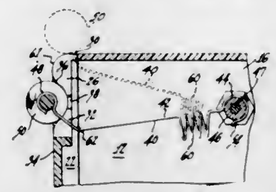
A tool bench and chest comprising a rectangular receptacle open at the top, a closure for said receptacle, a depending peripheral flange on said closure engageable with the upper edge of said receptacle, a pair of hinges carried by said flange and one wall of said receptacle, hingedly supporting said closure for swinging to an inverted, horizontal open position, pairs of bearing brackets fixed on said one wall, the brackets of each pair being vertically spaced and having vertically aligned apertures therethrough, inverted L-shaped closure supporting arms, one leg of each supporting arm being slidably and swingably engageable in said vertically aligned apertures of said brackets for supporting the closure in said inverted, horizontal open position, an inwardly extending horizontal plate in said receptacle at each end thereof.

2,610,762
CLOSURE AND FASTENER FOR THREADED CONTAINERS
Paul W. Carpenter, Fort Worth, Tex.
Application March 28, 1949, Serial No. 83,964
5 Claims. (Cl. 220—32)



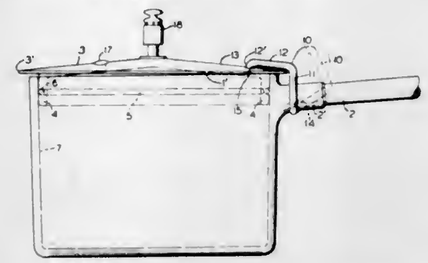
1. A closure for a container or the like having a screw-threaded neck comprising a resilient ring having internal threads extending substantially entirely therethrough and being adapted to be screwed on the neck of the container, a cap pivoted to said ring, said ring having a pair of slots extending thereinto defining a spring finger integrally rooted to said ring, and cooperating latch elements on said cap and on said spring finger.

2,610,763
COVER LATCH FOR PLASTIC RADIO CABINETS AND THE LIKE
Hans Mendelson, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 15, 1949, Serial No. 87,676
4 Claims. (Cl. 220—55)



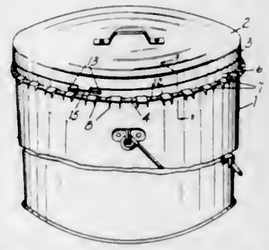
1. The combination with a portable radio cabinet structure formed with an opening and an externally openable cover therefor, of cover latch means for releasably holding said cover in place over said opening, said cover latch means comprising an elongated, extensible spring wire arm having one end anchored within said cabinet structure, an opposite end extending through said opening adjacent an edge of said cabinet structure defining said opening, and a coil spring portion intermediate said ends, said opposite end having an anchoring head, said cover portion being formed with an elongated slot extending to an edge of said cover and through which said opposite end extends, and an external surface on said cover for engagement by said head to impart a tension on said coil spring portion for retaining said cover element in position over said opening, said cover including cam surface portions on said external surface on both sides of said slot adjacent the edge of said cover for engagement by said head to increase the coil spring tension as said head is moved over said cam surface portions.

2,610,764
PRESSURE COOKING DEVICE
Jerome L. Murray, New York, N. Y.
Application June 13, 1945, Serial No. 599,263
6 Claims. (Cl. 220—55)



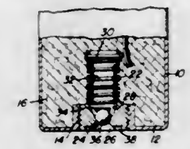
1. In a pressure cooker, a cylindrical open top vessel having an inner cylindrical shape extending downwardly from the rim thereof, a closure for said vessel resting on the rim thereof and having a cylindrical closing surface disposed generally concentrically with the inner cylindrical surface of the vessel and loosely fitting and extending downwardly into said vessel said inner cylindrical surface being at least substantially coextensive with said cylindrical closing surface, said cylindrical closing surface having sealing means on the outer surface thereof for engaging and forming a tight seal with the interior of the vessel said vessel having means only on one side thereof and engaging only one side of said closure for holding the same upon the rim of the vessel but permitting tilting of the closure thereabout, said cylindrical closing surface being adapted upon tilting movement to bind against the interior of the vessel and thereby to hold the closure in position against the pressure inside the cooker.

2,610,765
GUARD FOR RECEPTACLE COVERS
Donald A. Freeman, Kalamazoo, Mich.
Application April 13, 1949, Serial No. 87,269
4 Claims. (Cl. 220—85)



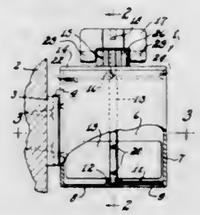
1. A guard for covers having a peripheral flange provided with an outwardly and upwardly turned bead on the edge of the flange comprising, a split flexible sheet metal guard band having radially disposed angularly spaced lugs struck outwardly from the lower edge thereof, the lugs having integral downwardly projecting V-shaped teeth on their longitudinal edges, the lower edge portions of the band between the lugs constituting V-shaped prongs adapted for engagement within the bead of the cover flange when the band is arranged around the flange, the band having holes adjacent its ends, and a tension spring provided with hooks at its ends engageable with said holes for applying clamping stress to the band.

2,610,766
CIGARETTE LIGHTER FILLER UNIT
Luther C. Ogle, Holly Hill, Fla.
Application January 28, 1949, Serial No. 73,414
1 Claim. (Cl. 220—86)



In a cigarette lighter having an internally threaded filling port, a filler unit comprising a plug having an elongated hollow perforated shank portion and an externally threaded head portion, the head portion of said plug receivably engaging the port, an axial countersunk opening provided in the head portion of said plug, a ball valve received in said opening, a spring mounted in said shank portion and having a tapered end bearing against and urging the valve to its closed position, said spring being of a diameter substantially equal to the internal diameter of the shank portion, and an abutment fixed to and located within said shank portion for said spring, said valve being located relatively close to the outer face of said head portion to permit the discharge nipple of a container of lighter fluid to urge the valve to its opening position during filling of the lighter with a fluid, said abutment comprising a pin extending diametrically through said shank portion and having flattened ends disposed exteriorly of said shank portion.

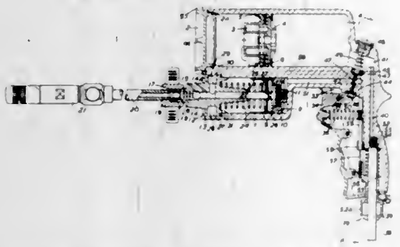
2,610,767
SOAP PASTE DISPENSING APPARATUS
Bryant H. Gardner, Granby, Mass., and Frederick W. Yardley, Simsbury, Conn., assignors to The Chemical Corporation, Springfield, Mass., a corporation of Massachusetts
Application September 9, 1948, Serial No. 48,446
2 Claims. (Cl. 222—39)



1. A hand paste dispenser comprising a cylindrical reservoir for the paste having a bottom provided with a constantly open narrow discharge opening, means along one edge of said opening to guide the paste through the opening, a removable cover member provided with means for locking the cover to the reservoir, said cover having a centrally positioned outwardly extending hub, a shaft rotatably mounted in said hub and held against axial movement relative thereto, said shaft extending downwardly into the reservoir, a bearing socket fixed to the bottom of the reservoir for receiving the lower end of said shaft, a thin flat paddle fixed to the lower portion of said shaft and extending transversely thereof in a vertical plane, the lower edge of the paddle being positioned closely adjacent the bottom of the reservoir, a handle fixed to the shaft outwardly of said hub, and means rotatable with the shaft and engageable with means carried by the

hub to form an audible and touch sensitive signal means to indicate the amount of rotation imparted to the paddle shaft.

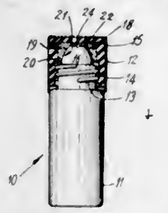
2,610,768
GREASE GUN HAVING RESERVOIR COVER AND AUTOMATIC LOCKING MEANS THEREFOR
Camille Clare Sprankling Le Clair, Acton, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain
Application March 19, 1947, Serial No. 735,720
In Great Britain April 27, 1946
12 Claims. (Cl. 222—153)



1. An air operated grease gun adapted to be connected to a source of air under pressure comprising a hand grip, a gun barrel, a grease-tight plunger slidable therein, an air operating cylinder mounted on said hand grip and mounting said gun barrel, an air operated piston slidable in said operating cylinder and adapted to actuate said plunger, the area of said piston being greater than the area of said plunger so that the unit area pressure applied to the grease through the plunger and piston is greater than the unit area pressure of the operating air, valve mechanism for controlling the inlet and outlet of air into and from said operating cylinder trigger means for actuating said valve mechanism, a grease-containing reservoir cylinder mounted on said hand grip, a follower piston slidable in said reservoir cylinder dividing said reservoir cylinder into a grease space and an air space and subject to the pressure of the operating air so as to force grease into said gun barrel, means forming a passageway interconnecting said grease space and said gun barrel, a detachable filling cap for closing said grease space, movable locking means adapted to lock said filling cap against removal from said cylinder, and actuating means for said locking means operable on connection of the source of air under pressure therewith and with the grease gun to move said locking means into locking position.

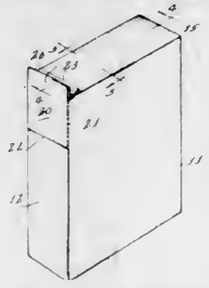
2,610,769
DISPENSING CONTAINER HAVING AN ABSORBING LAYER FOR DISPENSING BY CAPILLARY ACTION
Carlos Cudell Goetz, New York, N. Y.
Application August 30, 1949, Serial No. 113,215
2 Claims. (Cl. 222—187)

1. A perfume dispenser comprising a rigid vial provided with a threaded and tapered outlet head having a small opening therein, a cover threadably secured to said vial thread and having a tapering cavity registering with said vial head and having an absorbent disc at the base of said cavity and the side walls of said cavity forming an air seal chamber around said outlet head, the upper surface of said outlet head having shallow channels radiating from said opening therein, whereby to premeasure the supply of said perfume by inverting the bottle, saturating the ab-



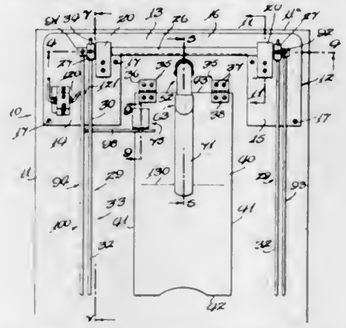
sorbent disc and transferring the perfume from the absorbent disc to the said shallow channels.

2,610,770
MEASURING DISPENSER
Raymond C. Penfield, Chicago, Ill.
Application July 1, 1946, Serial No. 680,587
3 Claims. (Cl. 222—364)



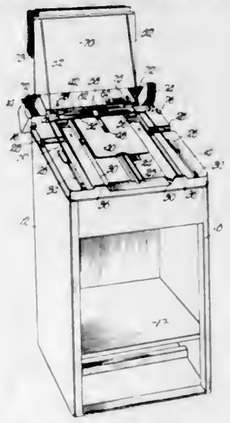
1. A measuring dispenser, comprising a carton of sheet material and a relatively rotatable dispensing device formed integrally of the same sheet blank, the carton having side and end walls and one of the end walls having a partially weakened portion between it and the adjacent side wall and having a fold line at the bottom of the weakened portion, this weakened end being extended to provide the dispensing device which is foldable together to form an open container and has a wall secured to the weakened wall portion of the carton and also to provide a doubled tab extending from the end of the carton when the carton is extended in set-up position, this doubled tab portion being foldable over and against the end of the carton.

2,610,771
SHIRT FOLDING DEVICE
Caesar A. Calder, Verona, N. J.
Application June 13, 1950, Serial No. 167,748
15 Claims. (Cl. 223—37)



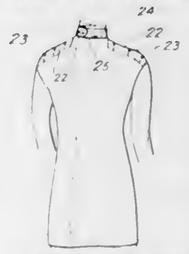
1. A shirt folding device comprising a table, a leaf hinged to the table, a clamp hinged to the table and adapted to be resiliently pressed against the top of the leaf, an inner clamping member pivoted to the table and having a pair of clamping arms disposed on opposite sides of the leaf, an outer clamping member pivoted to the table and having a pair of arms disposed on the outer sides of the arms of the inner clamping member, and means to latch the outer clamping member to the leaf, said latching means comprising a latch on the leaf and an arm attached to one of the arms of the outer clamping member and engaging beneath one of the arms of the inner clamping member and adapted to be engaged by the latch on the leaf.

2,610,772
GARMENT FOLDING EQUIPMENT
James W. Steele, North Kansas City, Mo.
Application December 21, 1950, Serial No. 201,946
8 Claims. (Cl. 223—37)



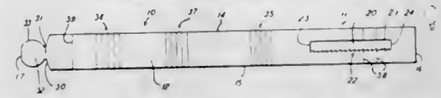
1. Garment folding apparatus comprising, in combination, a table member, a movable leaf member hingedly mounted on said table member for swinging movement into and out of operative relation to the upper working face of the table, and a set of garment folding and guide arms pivotally mounted on said leaf member and also slidably adjustable thereon into different operative positions both longitudinally and transversely with reference to said leaf member.

2,610,773
PROCESS FOR MAKING DRESS FORMS
Ester Nyberg, Seattle, Wash.
Application November 23, 1946, Serial No. 711,993
1 Claim. (Cl. 223—68)



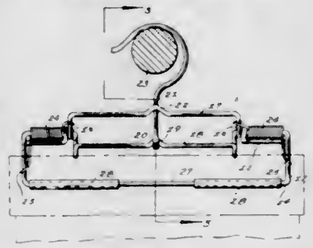
The method of making a dress form comprising the steps of applying a thin fabric around a mannequin and fitting said fabric to conform to the mannequin, forming a shell on said fabric and conforming to the mannequin by successively applying and adhering a plurality of strips in overlapping relation on said fabric until the torso of the mannequin is completely covered with said strips, producing a series of vertically spaced horizontal marks on the back of said shell, cutting said shell up the back and across said marks and in a line to form at least one notch adjacent the waist portion of said shell, removing said shell from the mannequin by spreading the cut edges thereof, positioning said cut edges together with said notch interfitted and with said marks in register, and securing the juxtaposed cut edges together to provide a permanent dress form.

2,610,774
SHIRT COLLAR SUPPORT
Caesar A. Calder, Verona, N. J.
Application March 16, 1948, Serial No. 15,082
1 Claim. (Cl. 223—83)



A shirt collar support comprising an elongated cardboard strip, said strip comprising parallel top and bottom edges, said strip being formed with a longitudinal slot adjacent one end thereof, the other end thereof comprising a headed tongue and a neck portion connecting said tongue and the body portion of said strip, said tongue being adapted to be inserted into said slot with said neck portion extending transversely of said slot, one longitudinal edge of said slot being formed with ratchet teeth adapted to engage an edge of said neck, each of said teeth having an edge perpendicular to said parallel edges and an edge inclined toward the first end of said strip and toward said top edge, the width of the neck being such that the other edge of the neck is contacted by the other longitudinal edge of the slot.

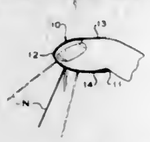
2,610,775
TROUSER AND SKIRT HANGER
Charles J. Stager, Troy, Ohio
Application March 7, 1950, Serial No. 148,077
3 Claims. (Cl. 223—96)



1. In a garment hanger, two longitudinally elongated rectangular frames arranged in side by side relation, each frame comprising a first longitudinal arm, a second longitudinal arm laterally spaced from the first longitudinal arm, and end arms extending between longitudinally outward end portions of the longitudinal arms, the second longitudinal arms of the frames having laterally offset intermediate portions spaced from the longitudinally outward ends thereof and extending parallel to said first longitudinal arms of the frames, the offset intermediate portion of one frame being offset toward the first longitudinal arm thereof, and the offset intermediate portion of the other frame being offset away from the first longitudinal arm thereof, hinge means pivotally connecting the second longitudinal arms of the frames at said offset intermediate portions between said outward end portions, spring means

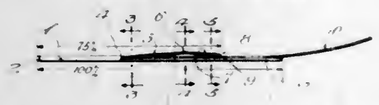
mounted on the second longitudinal arm of one of the frames and having a portion tensioned against the offset intermediate portion of the other frame and urging said frames toward each other so as to compress the first longitudinal arms of the frames together, and a hook member comprising a shank having a hook on one end and having another end, said another end being pivoted on the offset intermediate portion of the other of the frames offset away from the first longitudinal arm, said shank having a portion angulated with respect to the axis of the shank for engaging the offset intermediate portion of the other frame so as to lock the frames together with their first longitudinal arms in compressed relation.

2,610,776
THIMBLE
Jane E. Smith, New London, Conn.
Application July 21, 1950, Serial No. 175,178
7 Claims. (Cl. 223—101)



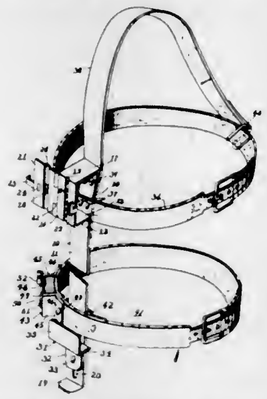
1. A thimble intended to be worn upon the extremity of a finger and provided with an open end, said thimble being formed from relatively thin material of substantially uniform thickness throughout of generally ovate cross-sectional configuration, complementarily parabolic side surfaces on said thimble merging into an arcuate apex disposed along the longitudinal center line of said thimble, said side surfaces including substantially parallel opposed portions adjacent the open end of the thimble, a parabolic upper surface on said thimble including a horizontally disposed portion adjacent the open end of the thimble merging into an arcuate surface of progressively decreasing radius, a parabolic lower surface on said thimble including a horizontally disposed portion adjacent the open end of said thimble merging into an arcuate portion of sharply decreasing radius, the linear extent of said lower surface being greater than the linear extent of said upper surface, said upper and lower surfaces merging into said apex on a lesser arc than said side surfaces, said apex being positioned on a horizontal plane above the longitudinal center line of the thimble, the interior configuration of the thimble being substantially identical to that of the exterior thereof.

2,610,777
LACING NEEDLE
Elizabeth C. Harris, Washington, D. C.
Application June 1, 1949, Serial No. 96,461
3 Claims. (Cl. 223—103)



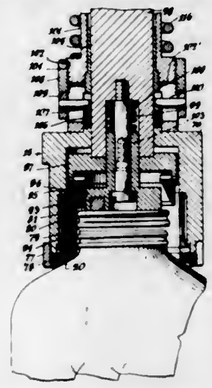
1. A composite awl and lacing needle comprising a flat strip of substantially rectangular section slit at one end along its axis to a point remote from the other end providing a pair of rectangular strip members, with one of said strip members extending substantially beyond the end of the other of said strip members, the shorter of said strip members being bent at an angle laterally away from the other of said strip members to a hump portion and being bent from said hump portion toward the longer strip member and terminating in a tape engaging end whereby a tape inserted between said bifurcated portions of the strip may have the terminus thereof abutted against the inner junction of the bifurcated portions of said strip and clamped between the said bifurcated portions of said tape engaging end, the hump portion formed by the bent parts of the shorter of said strip members being offset from the plane of the longer of said strip members to form an awl for spreading slitted material through which the lacing needle is passed, and the longer strip member providing a flat tape guide and a finger grip for manipulating the awl and needle by the fingers for a substantial distance beyond said tape engaging end of the shorter of said strip members.

2,610,778
UMBRELLA BANDOLEER
William D. Young, Roslyn, Pa.
Application September 13, 1950, Serial No. 184,575
5 Claims. (Cl. 224—5.1)



1. An umbrella bandoleer comprising a body upright including a flat leg of sufficient length to extend from the region of the person's chest to the locality of the waist line, an extension projecting outwardly at right angles to and from the upper end of said leg, a holding member plate projecting upwardly from the forward or outer edge of said extension, a top end plate projecting rearwardly from the holding member plate to a location in the rear of the plane of the leg and an oblique back plate extending downwardly and forwardly from the rear end of the top end plate to the rear surface of the leg where said back plate is fixedly secured, said holding member plate having a vertical channel open at the front end to end and the inner surfaces of the walls of said channel having roughening formations, said channel adapted to receive the staff of an umbrella or the like laterally inserted therein, means movably attached to the holding member plate for disposition across the channel to clamp the umbrella staff therein when the umbrella is in an open condition and the inner end of the umbrella handle underlies the shoulder formed by the extension, a keeper to temporarily hold the clamping means in a closed position, and a harness to support the body upright on a person's body, said harness including a breast strap fastened to the lower portion of the oblique back plate and adapted to encircle the upper part of a person's body, a shoulder strap having one end secured to the upper portion of said oblique back plate and adapted to overlie a person's shoulder, means to adjustably connect the other end of said shoulder strap to the rear portion of the breast strap and a belt vertically adjustably connected to the lower portion of the leg and adapted to encircle a person's waist for steadying the body upright.

2,610,779
HERMETIC SEALING MACHINE WITH VACUUM CONTROL MEANS
Frederick Z. Fouse, Lancaster, Ohio, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application October 11, 1946, Serial No. 702,785
12 Claims. (Cl. 226—82)



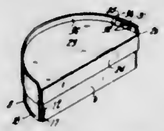
1. In a device of the class described, the combination of a hood for enclosing at least a portion of a container to form a chamber about the container to permit air to be withdrawn therefrom, an annular port in said hood extending about the upper end of a container through which the air may be withdrawn to vacuumize the container, an annular chamber within the hood communicating with said port, a screen extending about said chamber and covering said annular port to screen the air withdrawn from the chamber to prevent particles from clogging the air-withdrawing mechanism, and means within the hood for applying a closure to a container.

2,610,780
COMBINED DELIVERY TUBE NOZZLE AND VALVE
Carl L. Bledsoe, Chicago, Ill., assignor to Ogle Construction Co., Chicago, Ill.
Application August 13, 1947, Serial No. 768,369
11 Claims. (Cl. 226—126)



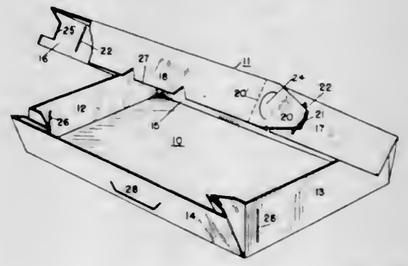
1. A valved nozzle for delivering granular materials through a tubular conduit from an elevated storage bin to a receptacle on a lower level, comprising a main body including a tube with a closed end, and a valve seat surrounding the closed end, said tube having an opening adjacent the closed end, a slide valve member fitting over the tubular portion of the main body and movable axially relative thereto to open and closed positions, said slide valve being adapted in one axial position to close the opening in said main body and rest against said seat, and in another axial position being adapted to uncover said opening, said slide valve member having a horn secured thereto adapted to engage the edge of a receptacle to be filled with granular material, and an outer tube secured to and encircling the main body and fitting over said slide valve member, said outer tube having a longitudinal slot to permit passage of said horn and serving as a guide therefor when the slide valve member is moved axially.

2,610,781
BOX
Henry L. Metzger, Castleton-on-Hudson, N. Y.
Application January 7, 1948, Serial No. 974
4 Claims. (Cl. 229—16)



3. A box comprising a cover element formed from an integral blank of paper board and comprising a semi-circular top, a straight side wall attached to the straight edge of said top, and a curved side wall attached at one end thereof to one end of said straight wall and extending therefrom around the curved edge of said top to a zone adjacent the other end of said straight wall; said top and said curved wall being provided with interengaged portions holding said top and said wall in cover-forming, assembled relation; and said straight wall and said curved wall being provided with interfitting portions comprising a tongue at the end of said straight wall and an inwardly overfolded extension forming a pocket at the end of said curved wall holding said walls in cover-forming, assembled relation, said inter-engaged portions constituting the overfolded extension and a notched area in the semi-circular edge of the top extending from the straight-edge thereof and terminating along the semi-circular top a distance equal to the width of the overfolded extension and engaging an edge of the latter.

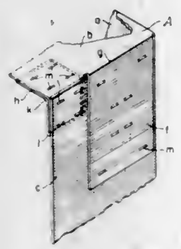
2,610,782
INTERLOCKING SECTIONS FOR PAPER BOXES
Ronald McReary, Corvallis, Oreg.
Application January 28, 1950, Serial No. 141,026
6 Claims. (Cl. 229—33)



1. In a box construction of the character described, having a pair of companion sections, each section having front and side walls and the

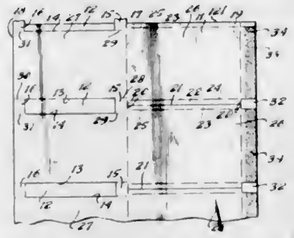
said walls of one section adapted to overlie the corresponding walls of the other section respectively when said box is closed, a flap extending longitudinally from a wall of said first mentioned section at a corner of said first mentioned section, said flap terminating in a tongue, a second tongue formed in said flap spaced longitudinally inwardly from said first mentioned tongue and extending in a direction opposite to that of the first mentioned tongue, a cut-out portion at the end of an adjacent wall of said first mentioned section adjacent said flap, said cut-out portion adapted to be covered by said flap and arranged so as to underlie said second tongue of said flap, an engaging slot for said second tongue in the corresponding wall of said other section so located as to be positioned inside of said cut-out portion when said box is completely closed, and a slot for said first mentioned tongue in the same wall having said cut-out portion, whereby the first and second tongues of said flap will be in engagement with slots in the walls of said first mentioned section and of said other section respectively when said box is closed and locked.

2,610,783
SELF-LOCKING BOX
Thomas Ochar, Little Falls, N. Y.
Application November 9, 1950, Serial No. 194,740
2 Claims. (Cl. 229—45)



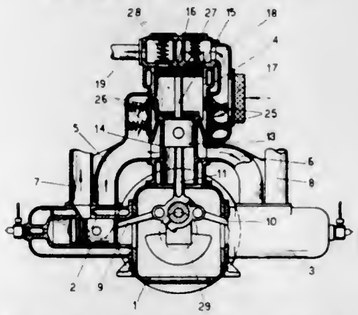
1. A rectangular container comprising body and cover portions each formed from a folded blank of sheet material and each having side and end panels, the side and end panels of the cover portion being constructed to fit over and surround those of the body portion, two corresponding panels of each portion having at their free edges relatively narrow integral end flaps, each of said flaps being folded to extend from the panel with which it is integral parallel with the adjacent panel to form a lug, the panels with which said flaps are integral also having at their ends additional integral flaps spaced from the free edges of said panels by said relatively narrow flaps, and means for securing both sets of flaps flat against said adjacent panel, the flaps forming the lugs on the body portion being folded on and secured to the outside of the panels and the additional flaps being secured to the inside of the panels, while the flaps forming the lugs on the cover portion are folded on and secured to the inside of the panels and the additional flaps secured to the outside of the panels, whereby a corner joint, having cooperating surfaces smooth except for said lugs, is produced, and when said body and cover portions are assembled and forced together, said lugs snap past each other and interlock to hold said portions together.

2,610,784
CONTINUOUSLY ATTACHED ENVELOPES
Beulah Louise Henry, New York, N. Y.
Application October 18, 1949, Serial No. 122,103
4 Claims. (Cl. 229—69)



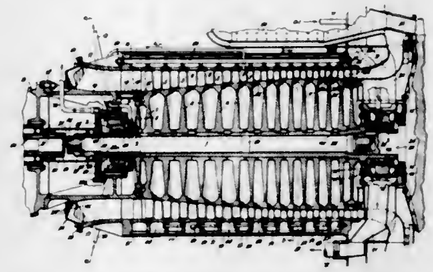
1. A series of continuously attached envelopes formed from a single strip of paper, each of said envelopes comprising front and rear walls integrally connected along the bottom of the envelope, said front wall having a closure flap and side flaps extending along the opposite side edges thereof, said rear wall being folded upon the front wall and adhesively secured to said side flaps to complete the formation of the envelope, and narrow tabs formed integrally with adjacent envelopes along their side edges adjacent the bottom of the envelopes and adjacent the mouth openings for connecting the envelopes together in series formation with adjacent envelopes spaced apart by said tabs.

2,610,785
INTERNAL-COMBUSTION ENGINE DRIVEN COMPRESSOR UNIT
Eric Carlson, Stockholm, Sweden, assignor to Aktiebolaget Atlas Diesel, Sickla, near Stockholm, Sweden, a corporation of Sweden
Application March 22, 1946, Serial No. 656,377
In Sweden April 4, 1945
5 Claims. (Cl. 230—56)



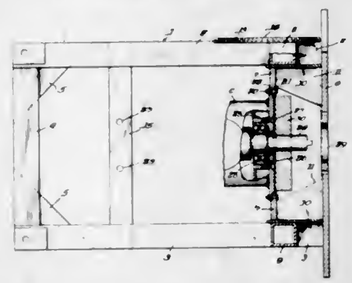
1. In a motor compressor unit having a crankcase, a crankshaft, a crank on said crankshaft disposed in said crank case, a group of cylinders comprising two substantially horizontal two stroke cycle internal combustion cylinders and at least one compressor cylinder disposed in the upper angle between said combustion cylinders and containing at least two working compressor chambers, pistons in said combustion and compressor cylinders connected to said crank, manifold means connecting one of said working compressor chambers and the combustion cylinders for conducting scavenging air from said chamber to the combustion cylinders, valve means in said manifold means, and a delivery passage from the second of said working compressor chambers for conducting pressure fluid for use outside the compressor unit.

2,610,786
AXIAL FLOW COMPRESSOR
Alan Howard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 25, 1946, Serial No. 679,247
1 Claim. (Cl. 230—133)



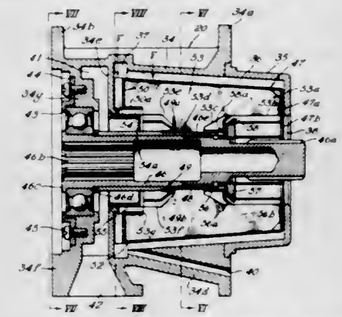
In an axial flow turbo-machine having a fluid passageway, a stator comprising a plurality of coaxial sectional blade-carrying rings of equal internal diameter axially spaced from each other, a plurality of continuous radially extending rings having an internal diameter equal to that of said sectional rings, one of said continuous rings being located between each adjacent pair of sectional rings, each continuous ring having an inner annular rabbet adapted to engage a mating rabbet on the adjacent sectional ring and an outer annular recess, an annular axially extending spacer member disposed in said outer annular recess of adjacent continuous rings, and means including a plurality of circumferentially spaced tie-rods projecting through said continuous rings between the inner rabbets and outer annular recess for securely holding the sectional and continuous rings together in rigid interlocking relation to form a cylindrical outer boundary wall of the fluid passageway.

2,610,787
COMPRESSOR SUPPORTING PLATFORM FOR TRACTORS OR OTHER VEHICLES
George L. Hart, Providence, Ky.
Application April 11, 1950, Serial No. 155,287
10 Claims. (Cl. 230—235)



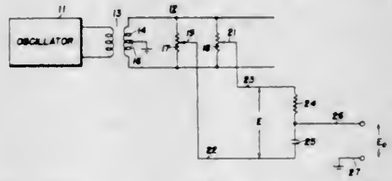
1. In combination, a platform having at one end an upright structure including two transverse, parallel, vertical plates spaced apart from each other lengthwise of the platform, the inner plate containing a large round opening, a detachable cover member provided with a central hole and having a part fitted in said opening, an apparatus resting on the platform and having a driven shaft extending through said hole in the cover member, the said apparatus having a sleeve-like hub surrounding and coaxial with said shaft, a boss on the cover plate fitting into the end of the hub, the outer plate having an opening coaxial with the opening in the other plate, and a detachable device arranged in the space between said plates and having a part fitting tightly in said opening in the outer plate, said detachable device constituting a bearing for an incoming driving shaft aligned with said apparatus shaft.

2,610,788
GAS AND LIQUIDS SEPARATOR
Miles Lowell Edwards, Longview, Wash.
Original application May 23, 1945, Serial No. 595,467. Divided and this application August 11, 1948, Serial No. 43,703
9 Claims. (Cl. 233—21)



1. A liquid-gas separating device comprising a casing having an axial inlet at one end thereof and two separate peripheral outlets at the other end thereof, a shaft rotatably carried in said casing, a frusto-conical rotor mounted on said shaft having an axial inlet at the small end thereof registering with the axial inlet of the casing and a peripheral outlet at the large end thereof communicating with one of the peripheral outlets of the casing, blades in said rotor for whirling material received from the inlet to centrifugally separate the material into gaseous and liquid components, vanes on said rotor in close running clearance relation to the casing for preventing leakage of gas from the axial outlet to the peripheral outlet of the rotor and for preventing back flow of liquids from the peripheral outlet of the rotor to the axial outlet, annular partition means between said blades and said vanes, and an axial outlet at the large end of the rotor communicating with the other of said peripheral outlets of the casing.

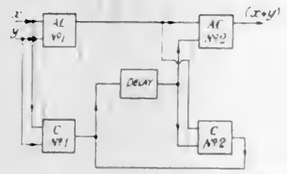
2,610,789
TRIANGLE SOLVER
Everett B. Hales, Mount Kisco, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application January 21, 1948, Serial No. 3,652
2 Claims. (Cl. 235—61)



2. In a system of the character described, an alternating current source, a circuit connected

to said source having its midpoint grounded, a pair of potentiometers connected across said circuit each of said potentiometers including an independently movable contact, a resistor and a condenser connected in series between said movable contacts, said resistor and condenser having such values that the capacitive reactance of said condenser is equal to the resistance of said resistor at the frequency of said alternating current source, an output circuit connected between the juncture of said resistor and condenser and ground, said output circuit including a phase detector producing as an output thereof a constant amplitude alternating potential whose phase is proportional to the phase of the quadrature vector sum of the potentials impressed on said movable contacts, and a peak rectifier producing as an output a direct current potential, the magnitude of which is proportional to the magnitude of the quadrature vector sum of the potentials impressed on said movable contacts.

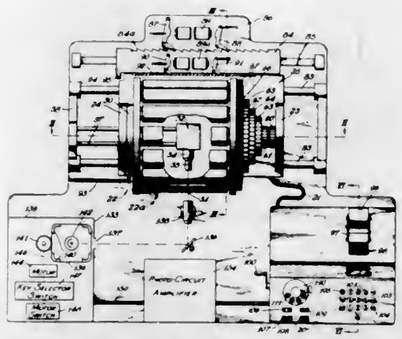
2,610,790
DIGITAL CALCULATING MACHINE
William Sidney Elliott, Borehamwood, England
Application March 26, 1951, Serial No. 217,452
In Great Britain March 28, 1950
5 Claims. (Cl. 235—61)



1. An adding unit for a binary digital calculating machine comprising first and second anti-coincidence units, first and second coincidence units, and a delay unit operative to delay by one digit time any pulse fed thereto, a first pulse input channel to each of the first anti-coincidence unit and the first coincidence unit for receiving the first of the two separate pulse sequences to be added, a second pulse input channel to each of the said first anti-coincidence and coincidence units for simultaneously receiving the other of the two pulse sequences, and pulse transmitting channels interconnecting the said units, as follows: a channel connecting the output from the first anti-coincidence unit to the one inputs of both the second anti-coincidence unit and the second coincidence unit; a channel connecting the output of each of the first and second coincidence units to the delay unit; a channel connecting the output from the delay unit to each of the other inputs of the second anti-coincidence and coincidence units; and a resultant output channel from the second anti-coincidence unit.

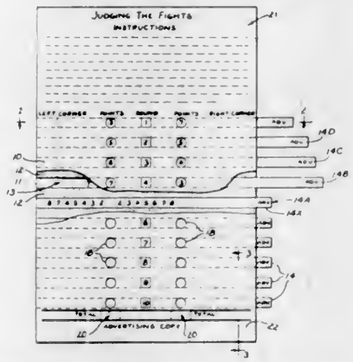
2,610,791
STORED FUNCTION CALCULATOR
Emik A. Avakian, Yonkers, N. Y.
Application April 18, 1950, Serial No. 156,580
11 Claims. (Cl. 235—61.9)

3. The combination comprising a recorder having a plurality of keys to be actuated, value-storing means including a plurality of films having discrete information imprinted in patterns thereon, a cage mounted for rotation and axial translation, a plurality of supply spools circumferentially spaced in said cage around the axis of rotation thereof, each supply spool carrying one of said films, a plurality of take-up spools mounted in said cage, each positioned to receive film from one of said supply spools, optical projection means mounted within said cage, selector means responsive to the actuation of the keys of said recorder for rotating said cage to position a selected one of said films opposite said optical projection means, said selector means also including means for advancing said



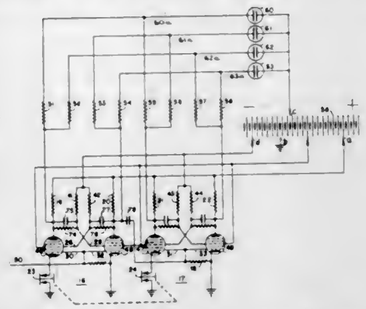
films from their respective supply spools to their respective take-up spools and for axially shifting said cage, whereby a discrete portion of a selected one of said films is positioned to be optically projected by said optical projection means, and a photo-sensitive translator including means responsive to said projected pattern to actuate certain of said keys in correspondence therewith.

2,610,792
SCORE INDICATOR FOR BOXING AND THE LIKE
Leo T. Kaufman, Chicago, Ill.
Application November 7, 1949, Serial No. 125,946
7 Claims. (Cl. 235—69)



1. A score card for boxing based upon a 10-point per round award system for two contestants, said card having two vertical columns of sight openings, slides in said card and each movable transversely of said columns beneath one opening and a companion opening in each corresponding to one round and each column, said slides each having digits spaced lengthwise of the slide such that the positioning of any slide to display any digit before either of the two corresponding sight openings will display a complementary digit in the companion opening, and any two digits thus displayed by any said slide always yield the sum of 10, indicia means on the card between each pair of companion openings and identifying the latter respectively with a certain round of boxing, and indicia means on the card and associated with each column of sight openings to correlate said columns respectively with a certain boxing contestant.

2,610,793
ELECTRIC COUNTING AND INTEGRATING SYSTEM
Ernst H. Krause, Cheverly, Md.
Application March 15, 1945, Serial No. 582,964
9 Claims. (Cl. 235—92)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



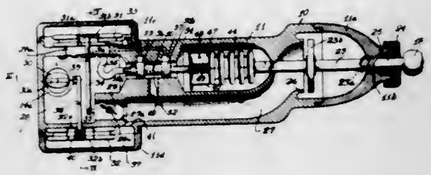
1. An electronic integrating circuit, comprising a plurality of the scale-of-two type counter stages connected to form a counter circuit in which a definite number of electrical states may exist, a plurality of voltage responsive devices, a plurality of impedance means separately connecting selected points in all of said counter stages to each of said voltage responsive devices, whereby each of said devices will respond to a different electrical state existing within said counter circuit.

2,610,794
COUNTER RESETTING MECHANISM
Harvey N. Bliss, Windsor, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Original application November 27, 1946, Serial No. 712,575, now Patent No. 2,524,755, dated October 10, 1950. Divided and this application December 27, 1948, Serial No. 67,473
8 Claims. (Cl 235—144)



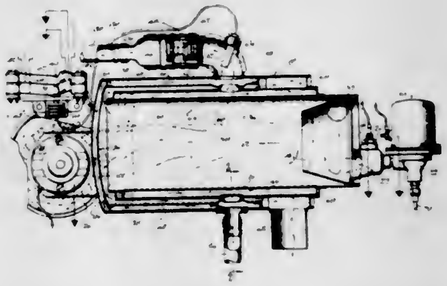
1. In a register mechanism, the combination comprising a longitudinally shiftable reset shaft, a counterwheel unit rotatably mounted on the shaft, means operative when the reset shaft is shifted longitudinally for forming a driving connection between the reset shaft and counterwheel unit, a driven member rotatably mounted on the shaft, friction means interconnecting the counterwheel unit and the driven member, a pair of springs for applying pressure to said friction means, and means actuated by the reset shaft for relieving the pressure of one of said springs when the reset shaft is shifted to carry out a resetting operation.

2,610,795
FLUID TEMPERATURE CONTROL DEVICE
Victor L. Streeter, Chicago, Ill.
Application June 9, 1950, Serial No. 167,097
6 Claims. (Cl. 236—12)



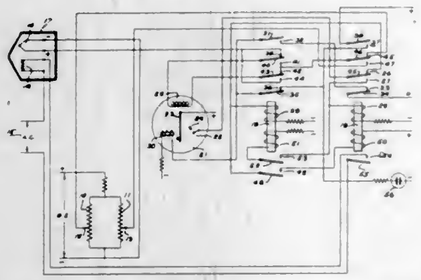
3. In a mixing valve adapted to maintain a relatively constant temperature the improvement which comprises a pilot valve, a thermo-sensitive means for shifting said pilot valve, a throttle valve, a first diaphragm-closed chamber having the diaphragm thereof shifted with the throttle valve to vary the volume of the chamber, and a second diaphragm-closed chamber between the thermo-sensitive means and the pilot valve in communication with the first chamber for compensating movement imparted to the pilot valve by the thermo-sensitive means in accordance with movement of the throttle valve.

2,610,796
THERMOSTATIC HEATER CONTROL
William A. Marshall, Jr., Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application September 28, 1945, Serial No. 619,178
4 Claims. (Cl. 236—20)



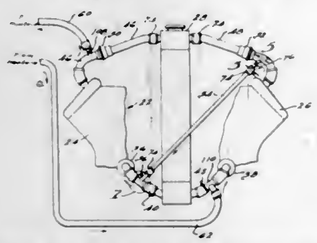
1. In an internal combustion heater which includes an electrically energized igniting device, a fuel inlet valve for said heater, an electromagnetic control device for said valve, a source of electrical energy and circuits in which said source is connected with said devices, a first switch operative when closed to energize the igniter, a second switch operative when closed to hold the fuel valve at fully open position, a third switch operative when closed to hold said valve at partially open position, said valve closing upon the opening of said second and third switches, and a single heat responsive device subject to the heat output of the heater and including a movable member which opens the first switch at a predetermined temperature and opens the second switch at a predetermined higher temperature, finally opening the third switch at a predetermined maximum temperature to shut off the fuel supply and interrupt the operation of the heater.

2,610,797
TEMPERATURE CONTROL APPARATUS
Merton R. Miller, Lombard, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1949, Serial No. 89,102
10 Claims. (Cl. 236—69)



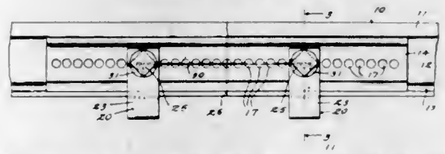
5. In a temperature control device wherein an element is heated by a heating means, the combination with a thermocouple responsive to the temperature of said element to produce a direct current proportional thereto of a pair of separately adjustable direct current energized potentiometers alternately connectible in series circuit with said thermocouple to provide a current in opposition to the current produced by said thermocouple, means connecting one of said potentiometers in said circuit, means responsive to a flow of current in said circuit caused by an increased temperature of said element to render the heating means for the heated element inoperative and simultaneously disconnect said one potentiometer from said circuit and substitute the other potentiometer therefor, and means responsive thereafter to a flow of current in said circuit in an opposite direction caused by a decreased temperature of said element to render the heating means for said element operative and simultaneously disconnect said other potentiometer and connect said one potentiometer in place thereof.

2,610,798
VEHICLE HEATING APPARATUS
Lachlan Wallace Child, Detroit, Mich., assignor to Evans Products Company, Plymouth, Mich., a corporation of Delaware
Application November 12, 1947, Serial No. 785,370
19 Claims. (Cl. 237—8)



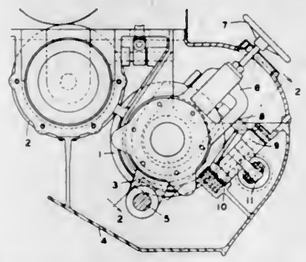
6. A space heating apparatus comprising liquid cooled engine means including first and second engine cooling heat exchange chambers associated therewith, waste heat dissipating liquid reservoir means, means providing parallel liquid flow circuits individual to said chambers and each including said reservoir means, liquid pump means individual to said liquid flow circuits, a space heater comprising heat transfer means, and means for establishing a liquid flow circuit which bypasses said liquid reservoir means and connects in series said first chamber, said second chamber, both said liquid pump means and said heat transfer means.

2,610,799
RAIL SPLICE
Grover I. Titus, Laramie, Wyo.
Application May 23, 1951, Serial No. 227,867
1 Claim. (Cl. 238—263)



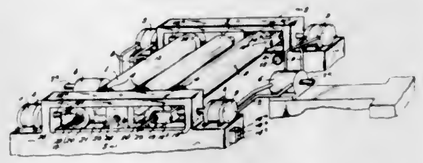
A temporary splice for abutting rails comprising a pair of elongated joint bars having inwardly convergent upper and lower edges wedgingly engageable between the lower side of the rail head and the upper side of the base flange of the rail, the inner faces of said bars bearing substantially against the opposite faces of the rail web, the outer side of each bar having a plurality of longitudinally spaced apart recesses, a pair of U-shaped clamps having the bights thereof extending transversely of and beneath the base flanges of the rail with the legs of the clamps upright and confronting the outer faces of the bars, said clamps being positionable spaced from the abutting ends of the rails, and lock bolts threaded through the legs of the clamps and each one of said lock bolts engaging at its inner end in any one of a selected recess, said bolts tightly holding said bars against the rails.

2,610,800
MULTIROLL CHOCOLATE REFINER AND LIKE MACHINES
Allan Ashmead Tunley, Peterborough, England, assignor to Baker Perkins Limited, Peterborough, England
Application May 26, 1950, Serial No. 164,419
In Great Britain May 30, 1949
3 Claims. (Cl. 241—32)



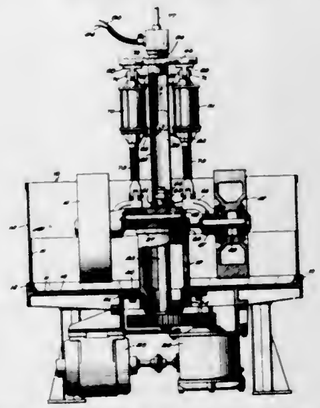
1. In a multi-roll refining machine the combination comprising: a frame; a refiner roll and means rotatably supporting said roll in fixed relationship to said frame; a feed roll; bearings rotatably supporting each end of said feed roll; means supporting said bearings for pivotal mounting thereof onto the frame about a mounting axis spaced from and parallel to the axis of said roll; an abutment pivotally affixed to said frame, means including a frangible member holding said abutment against pivotal movement with respect to said frame; means carried by the housing of one of said bearings and bearing against said abutment for moving said feed roll about said mounting axis and adjusting its spacing thereof with respect to said refining roll.

2,610,801
ROLLER MILL
Edgar H. Milier, Detroit, Mich., assignor of one-half to Edmund E. Edmiston, Cleveland, Ohio
Application March 12, 1949, Serial No. 81,041
5 Claims. (Cl. 241—67)



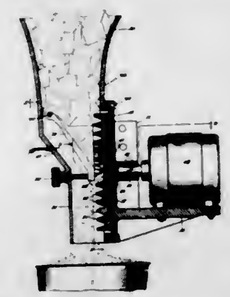
1. In a device of the class described, a plurality of parallel companion rotatable rolls, one of said rolls being adjustable towards and from another of said rolls, rollers on the two ends of the shaft of said adjustable roll for supporting the same and facilitating adjustable movement thereof, said adjustable roll comprising a hollow shaft and a hollow roll body rotatable upon its shaft, means for holding said hollow shaft against rotation, means extending through said hollow shaft and into said hollow roll body for controlling the temperature within said roll, double-acting hydraulic master cylinder and plunger, double-acting hydraulic auxiliary cylinders and plungers at the two ends of said adjustable roll, said auxiliary plungers having operative connection with the ends of the shaft of said adjustable roll, hydraulic operative connections so arranged between both sides of said master plunger and both sides of each of said auxiliary plungers so as to have the master and auxiliary cylinders connected in parallel and being otherwise closed so as to permit simultaneous and equalized hydraulic pressure of the auxiliary plungers at both ends of said adjustable roll and corresponding adjustment of the two ends of said adjustable roll, means for operating said master plunger, and means for rotating said rolls.

2,610,802
VARIABLE UNIT PRESSURE MULLER
Robert L. McIlvaine, Glencoe, Ill., assignor, by mesne assignments, to Herbert Simpson Corporation, Chicago, Ill., a corporation of Illinois
Application September 14, 1948, Serial No. 49,229
1 Claim. (Cl. 241—132)



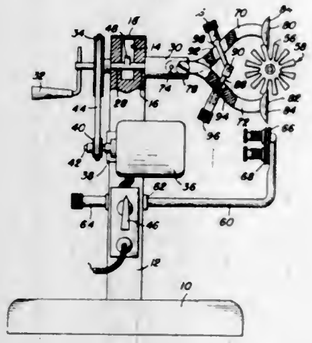
A muller comprising a crib, a housing extending upwardly through the center of said crib, a turret rotatably mounted on the top of said housing and projecting upwardly therefrom, power means beneath said crib for rotatably driving said turret, parallel horizontal sleeve members spaced outwardly from opposite sides of said turret and forming a part thereof for rotation therewith, oppositely projecting axles carried by said sleeve members, a wheel support arm pivotally mounted on each of said axles and extending inwardly therefrom along said turret, a muller wheel axle mounted on the free end of each of said wheel supporting arms and extending outwardly therefrom, muller wheels rotatably mounted on each of said last mentioned axles for rotation about parallel spaced axes adjacent but on opposite sides of a diametral line intersecting the center of said turret and moved about said crib by rotation of said turret, a bracket on said turret above said arms and extending in opposite directions, a separate double acting fluid pressure cylinder pivotally connected to said bracket adjacent each end thereof and depending therefrom, actuating rods depending from said cylinders for extension or retraction with respect thereto upon the admission of fluid under pressure to one end or the other of said cylinder, said wheel supporting arms having connecting arms projecting inwardly therefrom toward said turret, and pivotal connections between said actuating rods and said inwardly projecting connecting arms.

2,610,803
ICE CRACKER
John R. Bayston, Los Angeles, Calif.
Application July 16, 1949, Serial No. 105,100
3 Claims. (Cl. 241—255)



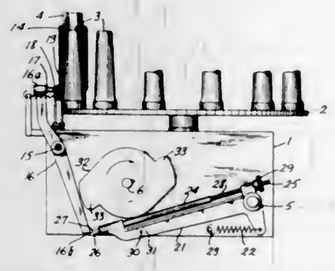
1. In an ice cracking machine, in combination, a rotor comprising a flat disc rotatable on a horizontal axis, with a plurality of teeth on one surface thereof and disposed in radial lines extending outwardly from the center toward the edges of the disc, a breaker plate overlying an upper quadrant of the rotor disc and adjacent the teeth thereon, said breaker plate having a curved marginal edge lying in a plane spaced from but generally parallel with the plane of rotation of the disc and carrying a series of teeth meshing with the teeth of the rotor, the teeth of the breaker plate being disposed in a curved line extending outwardly and upwardly from a point adjacent the center of the rotor to a point adjacent its periphery with the upper face of the series being concaved, together with a housing surrounding said rotor and breaker plate, and means for adjusting the spacing between the breaker plate and the rotor, said means comprising a pivotal mounting adjacent one end of the breaker plate and an adjusting screw adjacent its other end and means for driving said rotor in the direction such that the rotor teeth move toward the concaved surface of the series of teeth on the breaker plate.

2,610,804
ARMATURE WINDER
George A. Dreese, New Lexington, Ohio, assignor of nineteen per cent to Thomas H. Boyle, New Straitsville, fifteen per cent to Rodney E. Fisher, New Lexington, and fifteen per cent to William R. Jones, Columbus, Ohio
Application October 21, 1949, Serial No. 122,703
3 Claims. (Cl. 242—13)



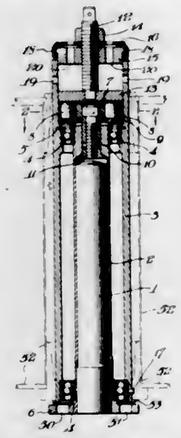
1. In an armature winder including a rotary shaft; a pair of gripping members carried by said shaft for supporting an armature, said gripping members including a pair of plates for entering diametrically opposed slots in an armature, said plates functioning as combined gripping jaws, shields and guides, a pair of joint forming arms connecting said gripping members, said arms having adjacent inner ends, a pivot joining the adjacent inner ends of said arms, one of said arms being slidably carried by one of said gripping members for moving the pivot relative to said plates to effect a spreading of said gripping members.

2,610,805
AUTOMATIC BOBBIN UNWINDING DEVICE
Walter Schweiter, Horgen, Switzerland, assignor to Schweiter Ltd., Horgen, Switzerland, a corporation of Switzerland
Application July 27, 1949, Serial No. 107,027
In Switzerland July 31, 1948
9 Claims. (Cl. 242—36)



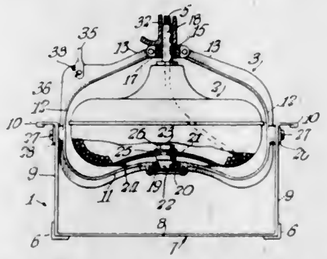
1. In mechanism for bobbin unwinding, two feelers, one of said feelers being located to scan an uncovered portion of a bobbin being unwound and the other of said feelers being located to scan coils on the bobbin, and one of said feelers being in engagement with the other to affect the action of the latter, and a controller connected and responsive to said feelers to stop the unwinding operation.

2,610,806
CONSTANT TENSION WINDING
Robert P. Lathrop, Chevy Chase, Md., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application September 20, 1950, Serial No. 185,837
7 Claims. (Cl. 242—45)



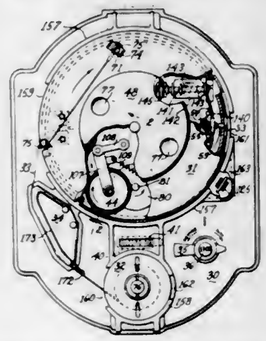
1. A device for winding a filament under constant tension comprising a spindle driven at constant speed; an inner shell mounted on and driven by said spindle; bearings at the top and at the base of said inner shell; mounted on said bearings an outer shell freely rotatable in respect to said inner shell; mounted at the top of and within said inner shell a magnet; mounted at the top of and within said outer shell a drag member located within the field of said magnet and affected thereby to rotate said outer shell upon rotation of said magnet; and at the bottom of said outer shell a flange to support a take-up unit on which said filament is wound.

2,610,807
APPARATUS FOR CLEANING PIPES OR DRAINS
John V. O'Brien, Park Ridge, Ill.
Original application March 11, 1947, Serial No. 733,810, now Patent No. 2,552,808, dated May 15, 1951. Divided and this application February 7, 1948, Serial No. 6,896
5 Claims. (Cl. 242—54)



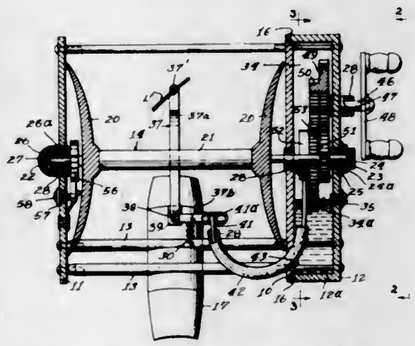
1. Apparatus for cleaning pipes or drains embodying therein a stand including a base and laterally spaced uprights thereon, a cradle disposed between said uprights, and including top and bottom spaced portions and upright side portions, means providing a horizontal pivotal connection between said side portions of the cradle and said uprights, that is operable to hold the cradle in the desired tilted position, a flexible cable holding drum disposed in said portions of the cradle, and means providing rotative bearing engagement for the top and bottom of the drum in the top and bottom spaced portions of the cradle.

2,610,808
MAGNETIC RECORDING APPARATUS
Hugh H. Davis, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application November 22, 1946, Serial No. 711,543
20 Claims. (Cl. 242—54)



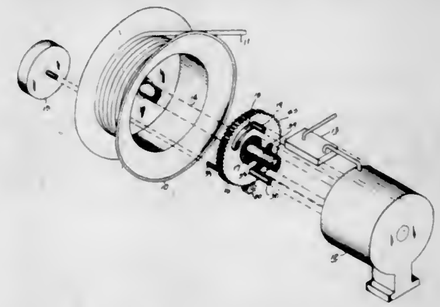
1. In a machine for handling magnetic recording medium, in combination, a pair of reels, means rotatably mounting said reels, a motor operatively connected to one reel to drive it for the transfer of medium to it from the other reel, a pair of elements each biased outwardly into engagement with the medium on said other reel, said elements being spaced in the axial direction of said other reel, whereby several convolutions of medium are normally located therebetween, and means arranged to cooperate with either element to stop the motor when either element is disengaged by the medium and is freed to move outwardly.

2,610,809
CASTING FISH REEL WITH LEVEL WINDING MECHANISM
Sam H. Breedlove, Columbus, Ga.
Application May 1, 1947, Serial No. 745,261
3 Claims. (Cl. 242—84.4)



1. A fishing line reel comprising a frame, a winding spool revolvably mounted therein, a sealed compartment at one end of the frame, a supporting shaft for said spool extended at one end into said compartment, a gear train within said compartment operatively coupled with the said end of said shaft, crank means for actuating said train, said compartment being adapted to contain a fluid lubricant, a line guide, means pivotally supporting said guide for movement relative to the spool, a reciprocable guide actuator having one end operatively coupled with the guide and a second end extending into said compartment, means within the compartment connected with said second end for effecting movement of the actuator upon actuation of the gear train, an operative coupling between the last named means and the gear train, the said last named means comprising a rotatably mounted cam turned by said gear train, said actuator comprising a flexible wire, and a tubular sheath for said wire having one end within the compartment in close proximity to the periphery of said cam, the wire having an end extended from the said end of the sheath and in contact with the periphery of the cam.

2,610,810
REEL MECHANISM
James J. Pelouch, Cleveland, Ohio, assignor, by mesne assignments, to Farm Tools, Inc., a corporation of Ohio
Application November 19, 1947, Serial No. 786,931
17 Claims. (Cl. 242—86)

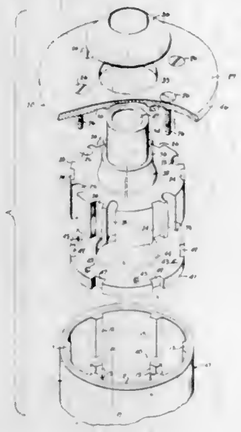


11. A mechanism comprising, a movable means, moving means operatively connected to said movable means to move the movable means, a mass associated with one of said means and capable of receiving inertial energy therefrom, interconnection means interconnecting said mass and one of said means for moving said mass, said interconnection means including a member movable upon relative movement between said one of said means and said mass, and valve means actuated by said member for controlling said moving means.

2,610,811
REMOVABLE HEAD SPOOL STRUCTURE
Jesse R. Moss, Johnson City, N. Y.
Application July 27, 1950, Serial No. 176,143
17 Claims. (Cl. 242—124)

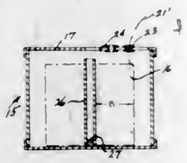
1. A spool having a removable head member at at least one end thereof, said removable head member comprising a flange, a head block removably mounted in said spool, a locking disk removably mounted in said spool, said spool having a plurality of circumferentially spaced ribs on the inner surface thereof, said ribs having notches therein adapted to receive said locking disk, said locking disk having spaced notches therein coinciding with said ribs, said locking disk being rotatable in said tube to position the notches therein out of alinement with said ribs, screw means penetrating said flange and said head block and threadedly penetrating said lock-

ing disk to secure the locking disk in the spool, said flange having a centrally disposed bore



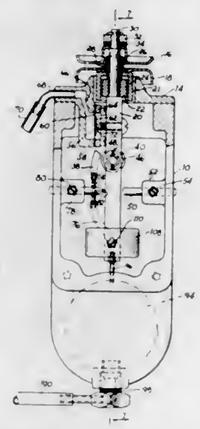
therein, said head block having a pilot portion extending through said bore, and a handle member removably secured to said pilot portion.

2,610,812
PACKAGES FOR TWINE, ROPE, AND THE LIKE
Henry Epstein, Brooklyn, N. Y., assignor of one-third to Mandel E. Epstein and one-third to Morton M. Epstein, both of New York, N. Y.
Application October 1, 1949, Serial No. 119,189
2 Claims. (Cl. 242—146)



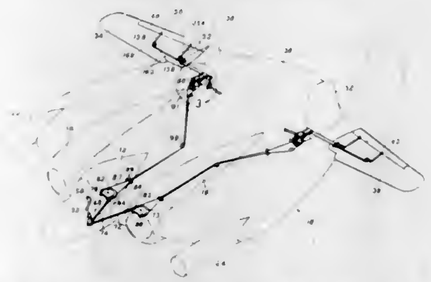
1. In an article of the character described, the combination of a bundle formed of a continuous filamentary material member, wound about an axis and having an exposed end to be pulled to unwind the bundle while the bundle is at rest, a member having an elongated slot therethrough, fixed adjacent the bundle whereby the axis of the bundle intersects said slotted member at the line of said slot; said slot extending substantially radially with respect to said axis, at least substantially from the inner to the outer turns of said bundle, a first element mounted on said slotted member in said slot for slidable movement along the slot; the said first slidable element having a hole therethrough through the slot; the exposed end of the filamentary material member, being positioned through said hole, and a second element mounted on said member for slidable movement along said slot; the first element, while the filamentary material member is being drawn through said hole, will change its position along said slot and in its travel along said slot, will come into contact with and shift the second element along the slot, whereby the position of the second element will be indicative of the inventory of the bundle.

2,610,813
APPARATUS FOR REGULATING YARN TENSION
Paul J. Campbell, Berlin, Conn., assignor, by mesne assignments, to Raymond Engineering Laboratory, Inc., Middletown, Conn., a corporation of Connecticut
Application March 12, 1946, Serial No. 653,850
41 Claims. (Cl. 242—150)



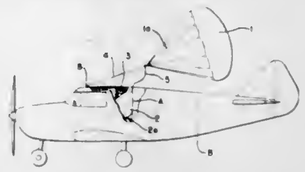
1. The combination in a tension regulator for a moving strand of yarn, of means for resisting the movement of the yarn to cause tension therein, fluid actuated means acting on the resisting means to cause the latter to apply resistance to the yarn, means for supplying fluid under pressure to the said fluid actuated means, and means dependent on the tension in the yarn after passing the said resisting means for varying the pressure of the fluid supplied by the fluid supplying means to the fluid actuated means to maintain the said yarn tension substantially constant.

2,610,814
POWER BOOST SURFACE CONTROL
Carl Schultz, Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application July 31, 1948, Serial No. 41,812
2 Claims. (Cl. 244—85)



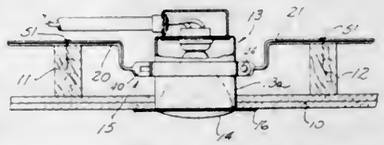
1. In an airplane, a main lifting surface, two control surfaces mounted on opposite sides of the fore and aft center line of said main surface, a pilot operated control member having two different movements, a hydraulic power boost strut connected to each of said control surfaces for moving the latter identically in response to one of said movements of said control member and in opposite directions in response to the other of said movements, said power boost struts operating said surfaces simultaneously in response to either movement of said control member, and control mechanism interposed between said control member and each of said power boost struts including a sector wheel operatively connected to said control member, a feel cylinder having one of its ends attached to said sector wheel, a selector valve attached to said sector wheel and operated by movement of the same for directing pressure fluid from a reservoir to either end of its associated power boost strut and for simultaneously directing pressure fluid of a lesser amount to said feel cylinder from said reservoir for producing forces resisting movement of said control member proportionate to but less than the forces produced by said associated power boost strut, an operative connection between said associated power boost strut and said valve for returning the latter to its non-selective positions whereby the control surface associated with said associated power boost strut is hydraulically locked in the position of deflection corresponding to the degree of movement of said control member, and an operative connection between said feel cylinder and said associated power boost strut and said valve whereby said resisting forces are made inoperative when said valve is returned to its non-selective position.

2,610,815
PARACHUTE DEPLOYING MEANS
Prevost F. Smith, San Diego, Calif.
Application August 25, 1947, Serial No. 770,508
10 Claims. (Cl. 244—139)



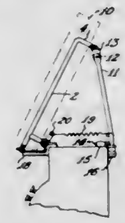
1. In a parachute deploying means in the class described, the combination of an airplane having a recess portion in and communicating with the upper outer side of the fuselage thereof, a removable container in said recess portion and having an open end and directed outwardly thereof, a pilot parachute having shroud lines connected to the innermost portion of said removable container and a main parachute in said removable container adapted to be opened by said pilot parachute after said removable container is ejected from said recess in said aircraft by said pilot parachute.

2,610,816
LIGHTING FIXTURE CLAMP
Harold W. Vote, Los Angeles, Calif., assignor to Eagle Manufacturing Company, Los Angeles, Calif., a partnership
Application March 10, 1950, Serial No. 148,864
2 Claims. (Cl. 248—27)



1. In a mounting bracket for a lighting fixture or the like, the combination of: two strap members each formed with a substantially half-round arcuate portion, said arcuate portions together being adapted to embrace a rounded lighting fixture or the like, said strap members being formed at corresponding ends of said arcuate portions with opposed portions extending outwardly at substantially right angles from said arcuate portions, an extension leg joining one of said opposed portions adapted to be fastened to a support, securing means for drawing said opposed strap portions toward one another, one of said strap members being formed at the opposite end of its arcuate portion with an outwardly bent slotted portion extending at substantially right angles to said arcuate portion, an extension leg joining said outwardly bent slotted portion and adapted to be fastened to a support, the other of said strap members being formed at the opposite end of its said arcuate portion with a substantially tangentially extending locking portion, the slot in said slotted strap portion being elongated in a direction longitudinally of the strap to a dimension greater than the width of said tangentially extending locking portion and having a width dimension substantially greater than the thickness of said locking portion but less than the width thereof, so as to receive said locking portion only when the locking portion is turned substantially into a plane parallel to the direction of elongation of said strap, said locking portion being edge-notched to a depth at least equal to its width less the width of the elongated slot, so as to permit turning said locking portion in said slot into a plane substantially at right angles to the direction of elongation of said slot, with locking shoulder means formed by said edge-notching in engagement with said slotted strap portion.

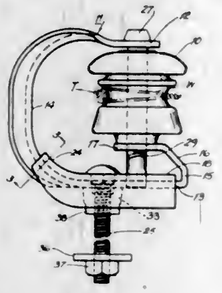
2,610,817
MERCHANDISE STAND
William Bedingfield, New Richmond, Ohio
Application July 20, 1949, Serial No. 105,709
1 Claim. (Cl. 248—199)



In a merchandise stand for upright attachment to a support, a wire frame comprising a pair of spaced vertical members connected together at their bottoms by a horizontal base member, an upper horizontal member rearwardly disposed with respect to said vertical members and connected to the upper ends of said vertical members, and a lower horizontal member rearwardly displaced with respect to said vertical members and connected to said vertical members intermediate their ends, a supporting leg pivotally connected to said upper horizontal member, said supporting leg carrying near its free end a short angularly related foot, said foot and the portion of the leg extending therebelow forming a gripping element, gripping members slidably connected to said lower horizontal member, said gripping members each having an angularly related portion for gripping engagement with an edge of the support and a flat bottom portion extending forwardly for contact with said base

member, said flat bottom portion terminating in a curved portion for snap engagement with said base member.

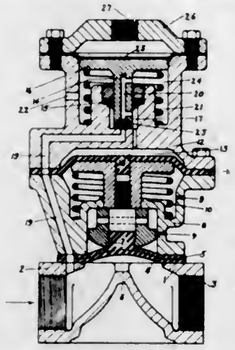
2,610,818
CROSSARM CLEVIS
Frederick George Ridgers, Hamilton, Ontario, Canada, assignor to N. Slater Company, Limited, Hamilton, Ontario, Canada
Application June 10, 1950, Serial No. 167,279
2 Claims. (Cl. 248—220.5)



1. In a cross arm insulator mounting, a substantially U-shaped member one leg of which is in part flat to lie upon the cross arm, longitudinally thereof, said leg including a rearward portion overlying said one leg in spaced relationship thereto, an elongated member adapted to straddle said one leg and prevent relative lateral displacement thereof, said portion being spaced from the other leg of said U-shaped member to receive the insulator therebetween and forming a support therefor, said elongated member terminating at one end in an upwardly curved extension adapted to engage a lower curved portion of the base of said U-shaped member, and a bolt for securing said elongated member and said one leg in straddled, coengaging relationship and to the cross arm, said portion and at least said other leg having aligned holes for the reception of the bolt by which the insulator is operatively attached to the mounting, said first named bolt being positioned nearer to said curved extension than the axis of said aligned holes.

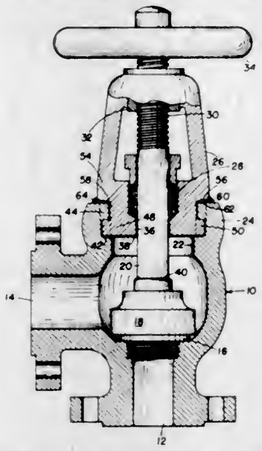
2,610,819
AUTOMATIC STOP AND VENT VALVE
Frank Sutton, Cwmbran, Newport, England, assignor to Saunders Valve Company Limited, Cwmbran, Newport, England, a corporation of Great Britain
Application September 4, 1945, Serial No. 614,410
In Great Britain September 4, 1944
4 Claims. (Cl. 251—23)

1. In a pneumatic main valve actuated by the pressure controlled thereby under the control of an auxiliary valve responsive to the pressure of a fluid other than that controlled by said main valve, an auxiliary valve structure comprising a sliding valve stem, a closed chamber into which said stem projects, a gland through which said stem makes a sliding joint with said chamber, a duct leading from the upstream side and opening into said chamber in alignment with said stem so as to be closed thereby when said stem is in its innermost position, and a spring pressing said auxiliary valve outwardly, said stem having an exhaust passage therein opening at one end on the side of the stem in such position as to be open to said chamber when the stem is in its innermost position and to be covered by said gland when the stem is outermost in its position and the other end of said exhaust passage lying at



all times outside said gland, and an outlet leading from said chamber.

2,610,820
VALVE BONNET STRUCTURE
Michael A. Markel, East Chicago, and David MacGregor, Munster, Ind., assignors to Edward Valves Incorporated, East Chicago, Ind., a corporation of Indiana
Application November 15, 1946, Serial No. 710,152
15 Claims. (Cl. 251—49)

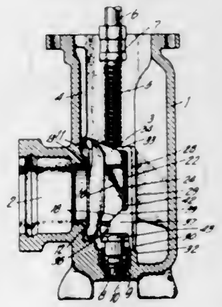


15. In a valve, a valve body, a valve in said body having a threaded stem, a bonnet on said body having threaded engagement with said stem, means to secure said bonnet on said body comprising interlocking abutment surfaces on said body and said bonnet to limit movement of the bonnet outwardly from the body, and a wedge connection between said body and a continuous external surface on said bonnet inclined with respect to the valve axis, said wedge connection including a part radially movable toward the valve axis to force said abutment surfaces into tight engagement.

2,610,821
VALVE
Edwin A. Weinberg, Troy, and George W. White, Schenectady, N. Y.
Application June 18, 1946, Serial No. 677,591
14 Claims. (Cl. 251—57)

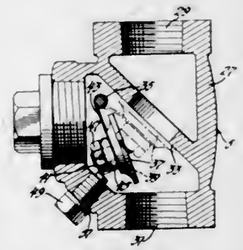
1. In a valve of the slide gate type comprising a body provided with a passage for the entrance

of water thereto, the combination with a gate, having upper and lower collars, for closing said passage, of a stem, loosely embraced by said collars, on which said gate is loosely mounted to provide limited lateral movement thereof with respect to said stem; a wedge nut, having inclined wedging surfaces, on said stem cooperating with said collars on said gate for raising and lowering the same; a two-sided wedge on said gate, having inclined upper wedging surfaces adapted to cooperate with the inclined wedging surfaces on said nut; means, including a wedging shoe carried by said gate; and means for posi-



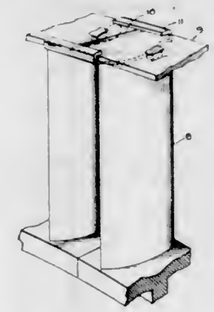
tively stopping the downward movement of said wedging shoe when said gate is in approximate alignment with said passage; said wedging shoe being provided with inclined wedging surfaces adapted to cooperate with lower wedging surfaces on said two-sided wedge for effecting a lateral movement of said gate into passage-closing position when the downward movement of said gate-carried means is positively stopped, and said shoe having upper and lower collars also loosely embracing said stem, the upper collar thereof being adapted to be engaged by the upper collar of said gate, and the lower collar thereof being adapted to be engaged by the lower collar of said gate, whereby said shoe is raised and lowered.

2,610,822
VALVE FOR PRESSURE CONTROL SYSTEMS
Albert Lemos, Jr., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Continuation of application Serial No. 751,661, June 2, 1947. This application June 14, 1951, Serial No. 231,547
3 Claims. (Cl. 251—120)



1. An equalizer valve for fluid brake systems of multi-unit locomotives comprising, a valve body having a through passage including an annular seat, a pivot at one side of said seat adjacent one edge thereof, a flat spring member swingably mounted on said pivot and forming a valve head support, a valve head having a restricted passage therethrough and so secured to said member as to be capable of a two-step seating operation in response to fluid pressure in the first of which the head swings about said pivot to angularly engage said seat to restrict the flow through said passage and in the second of which said spring member flexes to permit full seating of the head on said seat to confine the flow to said restricted passage in said head, and adjustable means for positioning said head in predetermined gravity-biased position away from said seat to vary the response pressure thereof.

2,610,823
TURBINE BUCKET DAMPING ARRANGEMENT
Paul H. Knowlton, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 11, 1947, Serial No. 727,833
3 Claims. (Cl. 253—77)

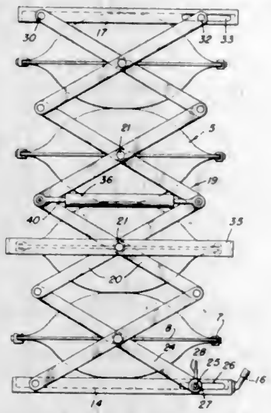


1. In a turbo-machine rotor having a circumferential row of radially extending blades, blade vibration damping means including a first member rigidly fixed to a first blade and projecting in a circumferential direction towards an adjacent blade, a second member rigidly fixed to said adjacent blade and extending circumferentially towards and in alignment with said first member, the adjacent ends of said members being separated by a clearance space whereby said members are free to vibrate in a tangential direction, and a friction member having no flexibility in a circumferential direction and loosely disposed between said adjacent blades and having a surface in loose frictional engagement with a radially inner surface of the first and second members, whereby during operation centrifugal force alone resiliently biases the friction member outwardly against said inner surfaces of the first and second members to produce friction work when the members vibrate in a tangential direction, tending to dampen such vibration.

2,610,824
PORTABLE FLUID OPERATED LIFTING JACK
Verlee P. Grier, Belmont, N. C., assignor of one-fourth to Henry G. Stowe, Belmont, N. C.
Application March 3, 1948, Serial No. 12,732
3 Claims. (Cl. 254—93)

1. A jack comprising a plurality of rectangular-shaped superposed inflatable bags having communicating air passages, a base supporting the bottom of the bags, a platform on top of the bags, a rigid frame enclosing the edges of each bag, a

lazy tong device at opposite sides of the bags and connecting the platform to the base, means con-



necting the frames to the lazy tongs, and means for supplying compressed air to the bags.

2,610,825

WITHDRAWN

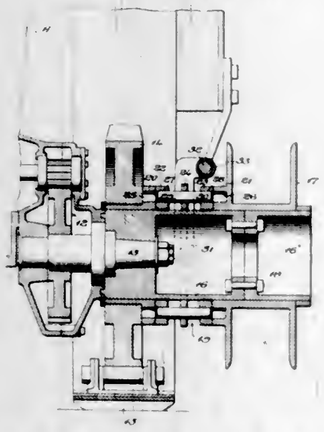
2,610,826

WHEEL HUB CABLE POWER UNIT COMBINATION WINCH AND HOIST

Julius Heller, Portsmouth, Va.

Application March 26, 1948, Serial No. 17,184

5 Claims. (Cl. 254—166)



1. In a tractor, a final drive shaft, a sleeve fixed to said final drive shaft for rotation therewith, traction means and a cable drum both mounted loosely on said sleeve and each having an annular series of holes therein, a clutch flange fixed to said sleeve and disposed adjacent to said traction means and having therein an annular series of holes for alinement with the holes in said traction means, a second clutch flange fixed to said sleeve and disposed adjacent to said cable drum and having therein an annular series of holes for alinement with the holes in said cable drum, a third clutch flange loose on said sleeve between said first mentioned flanges and having projecting from one side thereof an annular set of pins to enter the holes in said traction element and said first mentioned flange to drivingly connect said traction means to said sleeve, a second annular set of pins projecting from the other side of said third flange to enter the holes in said second mentioned flange and said cable drum to drivingly connect said cable drum to said sleeve, said third flange being slidable along said sleeve to selectively engage its said sets of pins in their related holes to selectively connect said traction means and said cable drum to said sleeve, and means for sliding said third flange along said sleeve.

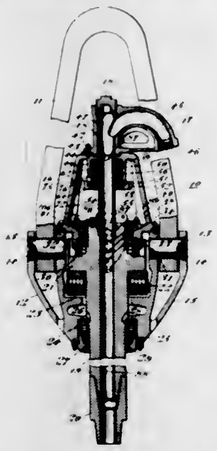
2,610,827

ROTARY SWIVEL

Lee Fagg, Corsicana, Tex., assignor, by mesne assignments, to Bethlehem Supply Company, a corporation of Delaware

Application July 16, 1948, Serial No. 38,990

10 Claims. (Cl. 255—25)



1. In a hydraulic rotary swivel, the combination of a housing body, said body comprising a lower bowl portion and an upper removable bonnet portion, said upper bonnet portion comprising exteriorly thereof an outer mounting surface and interiorly thereof a depending centrally disposed packing housing, said housing comprising an upwardly extending counterbored recess therethrough, a pipe stem rotatably supported in said lower bowl portion, a wash pipe flexibly secured at its lower end to rotate with said pipe stem and in communication therewith and having its upper end in spaced encircled relationship with said recess and substantially coaxial therewith, a gooseneck removably supported on said exterior mounting surface comprising a passageway therethrough communicating with the upper end of said wash pipe, a sealing ring mounted within the inner end of said recess, a bearing ring mounted within the outer end of said recess, said rings having opposed spherical concave surfaces of revolution of equal radii on their inside diameter, a wash pipe packing assembly comprising an outer cylindrical stuffing box having spherical end corner convex surfaces of revolution about a common center located on its axis, said convex surfaces being adapted for movable surface engagement with the respective opposed concave surfaces of said sealing and bearing rings when mounted therebetween within said recess, means for retaining said wash pipe packing assembly and said rings in said mounted relationship whereby said stuffing box has a sealed universally movable fluid-tight joint relationship with said recess, and packing means in said stuffing box in engagement with said wash pipe for maintaining a relatively rotatable fluid-tight engagement about said wash pipe.

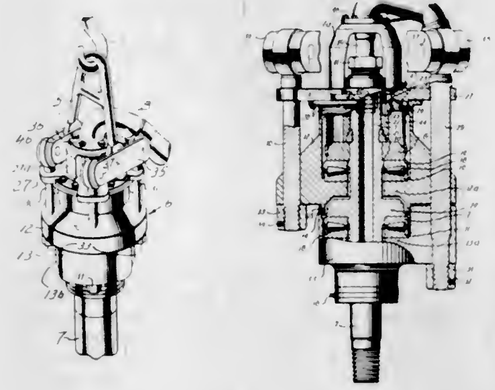
2,610,828

ROTARY SWIVEL

Robert L. Crain, Houston, Tex., assignor to Gray Tool Company, Houston, Tex., a corporation of Texas

Application November 19, 1949, Serial No. 128,352

9 Claims. (Cl. 255—25)



2. In a rotary swivel a housing having two parts relatively movable along the longitudinal axis of the housing, separate spaced swivel stem thrust bearing elements carried by the housing parts, a fastening member for securing the swivel to an elevator or the like, said member having a swingletree connection with each of the housing parts whereby the load upon the thrust bearing elements will be substantially equalized and transmitted to the fastening member.

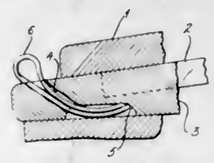
2,610,829

MINING DRILL

Elmer J. Huckshold, St. Louis, Mo., assignor to Central Mine Equipment Company, St. Louis, Mo., a corporation of Missouri

Application October 12, 1949, Serial No. 120,997

5 Claims. (Cl. 255—69)



1. In a mining drill head having detachable bits, a wedge for retaining the bits in position and a socket for accommodating the wedge, the improvement which comprises a resilient pin accommodated in a hole in said wedge, one end of said pin being exposed beyond the boundaries of said socket for a distance sufficient positively to prevent removal of said wedge from said socket, and the other end frictionally engaging an interior wall of said socket at a position concealed by the wedge.

2,610,830

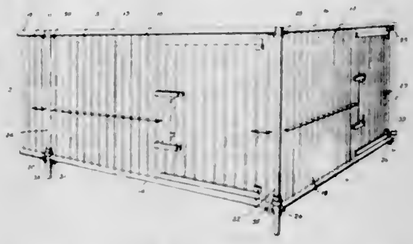
CORNER POST FOR SECTIONAL STALLS

William George Beatty, Fergus, Ontario, Canada, assignor to Beatty Bros. Limited, Fergus, Ontario, Canada, a company of Canada

Application June 5, 1950, Serial No. 166,221

In Canada December 7, 1949

4 Claims. (Cl. 256—27)



1. A readily detachable coupling between a panel and post comprising a panel having upper and lower rails, a pintle at one end of the upper and lower rails projecting downwardly, a post having upper and lower brackets, said brackets being positioned on the post the distance of the upper and lower rails of the panel, each post bracket having a hole approximately the size of the rail pintles, a locking sleeve positioned between the upper and lower brackets on the post and encircling the post, said locking sleeve having a vertical channel in its inner wall and having its upper surface in the form of a cam, a stud projecting from the post at right angles thereto, said stud being short enough to enter the vertical channel in the locking sleeve, the locking sleeve engaging a panel rail when the rail pintle is positioned in the bracket hole and the cam surface of the sleeve engages the stud.

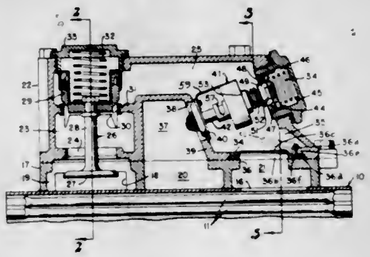
2,610,831

PROTECTED COOLER

Raymond W. Jensen, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California

Application September 24, 1946, Serial No. 699,033

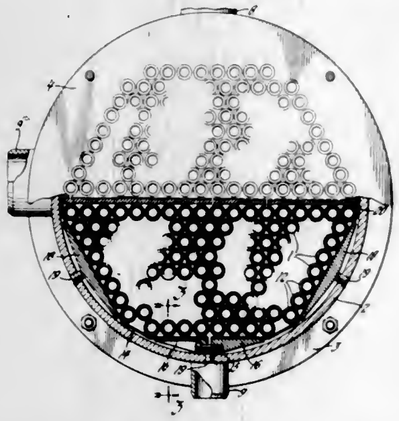
24 Claims. (Cl. 257—2)



1. An oil cooler comprising: a cooler core and a warm up bypass arranged in parallel with a common inlet and separate outlet and a main cooler outlet in communication with the core outlet and a port for establishing communication between the bypass outlet and said main cooler outlet; a valve unit including a valve head for closing said port and a tubular body, said valve head having a restricted aperture exposed to the fluid pressure in said port; means including said valve head and tubular body defining a fluid pressure chamber into which the fluid pres-

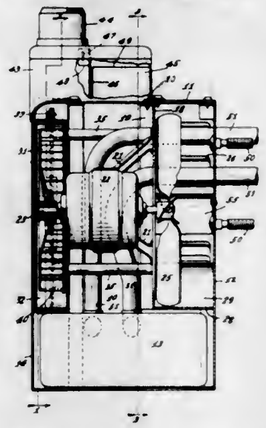
sure from said port may be transferred through said aperture, whereby to apply said fluid pressure to said valve head in valve closing direction; a check valve for preventing back surge from said fluid pressure chamber to said port through said aperture; spring means for applying pressure to said valve head in valve closing direction and adapted to cooperate with said fluid pressure in maintaining said valve in its closed position, said tubular body having a fluid escape opening adapted when opened to relieve said chamber of said bypass pressure so as to permit said valve to open under said fluid pressure acting against said head; a pilot valve member for closing said escape opening; and a thermoresponsive element adapted, when the temperature of the oil flowing to said main cooler outlet is within a normal operating range, to move said pilot valve element to a position closing said escape opening and permitting the pressure to build up in said chamber and, when said temperature is below said normal operating level, to move said pilot valve element to a position opening said escape opening, permitting the pressure in said chamber to substantially equalize with the pressure at the core outlet, and the bypass pressure to overcome the pressure of said spring means and permit a flow through said bypass.

2,610,832
CONDENSER
John Ralph Holmes and Adolf Schwarz, Lockport, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 2, 1947, Serial No. 765,730
8 Claims. (Cl. 257—28)



1. In a heat exchanger of the character described, a housing having a pair of tube plates, a bundle of finned tubes supported at opposite ends by said tube plates, and flexible means to support the tube bundle intermediate its ends, including spacer sleeves snugly embracing the finned tubes, each sleeve in abutment with adjacent sleeves on neighboring tubes, projecting formations on the tube fins immediately beyond the sleeves for locating the sleeves against axial displacement, a tube bundle encircling strap engaging the spacer sleeves on the outermost tubes, strap tensioning means contracting the strap for crowding the sleeves in clamped together relation and a series of spaced seating abutments adjustably mounted in the wall of the housing and engaged with said strap to support the intermediate portion of the tube bundle.

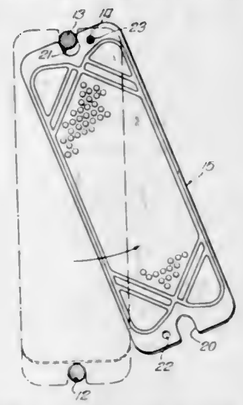
2,610,833
AUTOMOBILE-BODY HEATER
Edmund Ludlow, Columbus, Ind., assignor to Arvin Industries, Inc., a corporation of Indiana
Application April 4, 1949, Serial No. 85,367
2 Claims. (Cl. 257—137)



1. In an automobile-body heater, a casing having a back wall, side walls, and an open bottom providing an air inlet, a partition disposed within the casing generally parallel to the back wall and having an air-passing opening, a heat-exchanging core positioned within the open casing-bottom and adapted to be connected into an engine-cooling system to heat air entering the casing, at least a portion of the lower edge of said partition being spaced above said core, a baffle extending between the lower portion of said partition and the back wall and co-operating with the partition, the back wall, and side walls to define a fan chamber, a motor mounted within the casing in advance of the partition and having a motor shaft which projects both forwardly and rearwardly from the motor, a fan mounted on the rear end of said shaft within said fan chamber in position to confront said back wall, the side walls of the casing being provided with outlet openings in the plane of the fan between the back wall and the partition, and a blower including a rotary impeller mounted on the front end of the motor shaft for supplying windshield-defrosting air, said fan and blower being arranged so that both serve to draw air upwardly through said core when the motor operates, said fan being located closely adjacent said partition, the air-passing opening in the partition being concentric with the fan and of smaller diameter than the fan, and said fan chamber being free from obstructions interfering with the substantially free flow of air radially from the fan to the outlet openings.

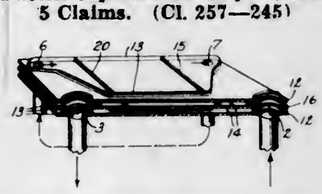
2,610,834
PLATE TYPE HEAT EXCHANGER
Charles B. Dalzell, Little Falls, N. Y., assignor to Cherry-Burrell Corporation, Wilmington, Del., a corporation
Application February 24, 1947, Serial No. 730,422
6 Claims. (Cl. 257—245)

6. A device of the class described comprising the combination of a frame having an upper supporting member and a lower supporting member, a plurality of closely spaced plate-like elements each provided with an upper peripheral notch and a lower peripheral notch, said upper and lower notches being engaged with said corresponding upper and lower supporting members with clearance, said plate-like elements being supported on the lower supporting member and stabilized against lateral displacement by said upper supporting member, each of said plate-like elements being provided with an aperture aligned with corresponding apertures in the other plate-like elements, and a longitudinally slidable supporting rod arranged laterally of one of said supporting members and spaced therefrom and re-



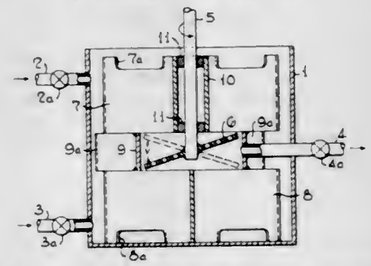
movably passed through the aligned apertures in said plate-like elements, said peripheral notches being engaged with the respective supporting members with sufficient clearance so that after the adjacent plate-like elements have been shifted away a sufficient distance from an individual element, the latter can be swung out of its vertical plane until one of the notches clears the corresponding supporting member while said supporting rod is engaged through the aperture of the element.

2,610,835
PLATE HEAT EXCHANGER
Robert P. Larsson Hytte, Lund, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application August 29, 1947, Serial No. 771,299
In Sweden February 10, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires February 10, 1962
5 Claims. (Cl. 257—245)



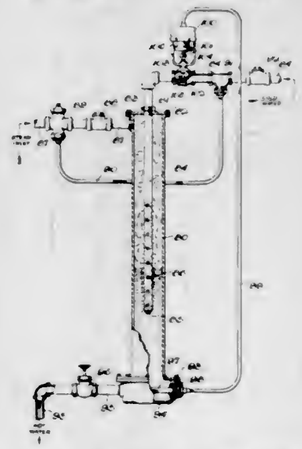
1. In a heat exchanger comprising a plurality of plates of like contour, each having a face forming with the faces of the adjacent plates, a pair of separate flow channels, each plate being identical to the others and having four fluid flow openings therethrough near its four corners, packing so arranged on plates carrying the same that when the plates are assembled communication is afforded, through each chamber formed by two adjacent plates, and between pairs of openings along the same edge of the exchanger, said plates being so assembled that the two pairs of communicating openings in adjacent chambers are along opposite edges of the exchanger, and a distributing device extending laterally within each chamber providing a passage progressively widening from the edge of the chamber to which said openings are adjacent toward the opposite edge to thereby effect a substantially equal distribution of the fluid in the part of the chamber beyond the distributing device.

2,610,836
ROTATING PLATE MIXING DEVICE
James S. Clarke, East Orange, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 30, 1950, Serial No. 171,376
9 Claims. (Cl. 259—7)



1. A fluid mixing and contacting device comprising a container vessel, a rotatably driven shaft extended vertically into said vessel, a perforate plate member mounted on said shaft in angular relation thereto, an annular shield member interiorly of said vessel enclosing said plate peripherally thereof and in closely spaced lateral relation thereto and disposed longitudinally of the vessel at an intermediate level vertically thereof, said shield communicating with the interior of said vessel above and below said plate outlet conduit means opening from the vessel through said shield substantially at said intermediate level, and inlet conduit means opening into said vessel above and below said shield in vertically spaced relation to said outlet conduit means.

2,610,837
STEAM WATER HEATER
Louis M. Puster, Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn., a corporation of Delaware
Application October 23, 1947, Serial No. 781,646
3 Claims. (Cl. 261—39)



1. In a water heater, in combination with a container for the heated water, a conduit for con-

veying steam to the interior of the upper portion of said container to form an atmosphere of steam therein, a conduit for conveying cold water to the interior of said container and including an elongated tube apertured to form jets over a substantial portion of the height of said container, said tube being arranged to be immersible at least in part in the water in said container, a pressure reducing valve in said steam line, means responsive to the pressure of the water in said water line for operating said reducing valve to maintain the pressure of said steam atmosphere predeterminately lower than the pressure of said water, a valve in said water conduit, and a thermostat operatively connected to said last named valve and subjected to the temperature of the heated water in said container for controlling the inflow of water and varying the level of the water in said container to proportion the jets delivering into said atmosphere of steam to the jets delivering into the water below the level thereof to maintain a substantially uniform temperature of said heated water.

2,610,838

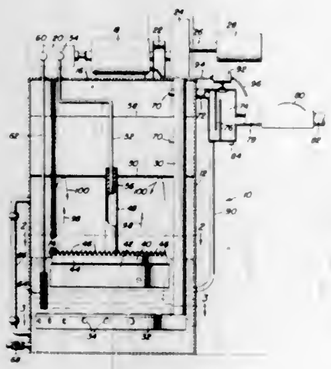
WITHDRAWN

2,610,839

GAS-LIQUID ADMIXING APPARATUS

Charles V. De Wees, Merchantville, N. J., assignor to U. S. Gas Generator Corp., Haddonfield, N. J., a corporation of New Jersey

Application August 26, 1949, Serial No. 112,615
1 Claim. (Cl. 261—121)



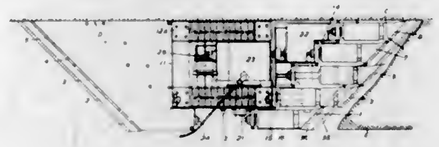
A gas-liquid admixing apparatus comprising an upright tank adapted to contain a quantity of liquid in the lower portion thereof, an aerating unit submerged in the liquid in said tank, a gas compressor, a duct connecting said compressor to said aerating unit, a buoyant spraying unit floating on the liquid in said tank and including a chamber and a plurality of upwardly directed nozzles thereon, said nozzles being disposed above the level of liquid in the tank, a liquid pump having an inlet and an outlet, a tubular conduit connected to the outlet of said pump and extending downwardly in the upper portion of said tank, an upright feed tube provided on said chamber and slidably telescoped on said conduit whereby said spraying unit may rise and fall with the level of liquid in the tank, a suction pipe extending from the lower end portion of said tank to the inlet of said pump, a foraminous baffle plate provided in said tank above said spraying unit whereby to be impacted by liquid discharged upwardly from said nozzles, means for simultaneously driving said compressor and said pump, a mixture outlet in the upper end portion of said tank, and a vapor condenser provided on said outlet, said aerating unit comprising a substantially circular housing provided with an eccentrically disposed inlet opening in communication with said duct, the circumferential wall of said housing being formed with a plurality of outlet openings, and a plurality of mutually divergent baffle strips provided in said housing, said strips defining therebetween a set of passages each extending from said inlet opening to one of said outlet openings.

2,610,840

MACHINE FOR MINING COAL

William S. Galloway, Glasgow, Scotland, assignor to Mavor & Coulson, Limited, Glasgow, Scotland

Application March 11, 1949, Serial No. 81,003
In Great Britain July 10, 1947
7 Claims. (Cl. 262—8)



1. A mining machine of the type stated for shearing mineral from the face of a seam throughout approximately the full height from floor to roof of the seam, comprising an assembly including four wedge-like cutters, two of them being arranged side-by-side at an upper level and the other two being arranged side-by-side at a lower level, the upper cutters being directly above the lower cutters respectively, cylinder-and-ram units connected to said cutters, each to each, so that when said units are operated they thrust forward the cutters respectively, and control means connected to said units and designed to operate them in the following sequence: initially an outer first cutter at one level is advanced individually to wedge out a section of mineral from the face of the seam, thereafter an outer second cutter at the other level and an inner third cutter at the said one level are advanced simultaneously so that the second wedges off mineral left out-standing by the first and the third wedges out a new section and finally the fourth cutter, namely the inner cutter at said other level, is advanced to wedge off the mineral left out-standing by the third.

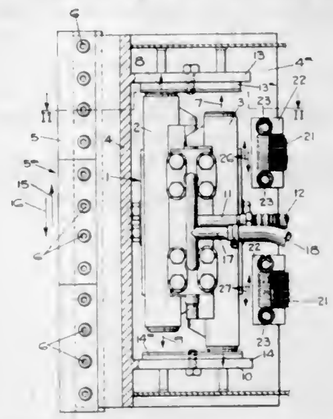
2,610,841

PLOW TYPE OF COAL MINING MACHINE

David Pearson and Julius Yarmak, Wakefield, England, assignors to The Jeffrey Manufacturing Company, a corporation of Ohio

Application September 23, 1950, Serial No. 186,362
In Great Britain July 7, 1950
1 Claim. (Cl. 262—8)

A shearing type coal mining machine including a body, means resiliently mounting a shearing head on said body, said shearing head having a shearing blade operable to shear coal as said machine is fed along a coal face, and vibra-



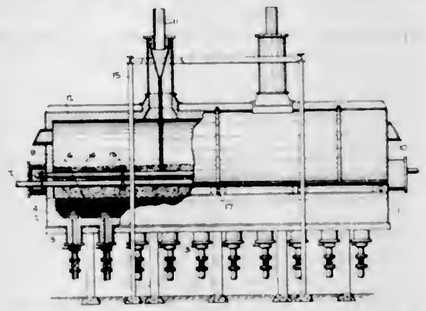
tory mechanism contained within said head and operable to vibrate said head.

2,610,842

APPARATUS FOR THE INDIRECT HEATING OF FLUIDS

Pieter Jan Schoenmakers and Willem Lodewijk van de Putte, Delft, Netherlands, assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

Application June 13, 1951, Serial No. 231,284
In the Netherlands June 15, 1950
1 Claim. (Cl. 263—42)



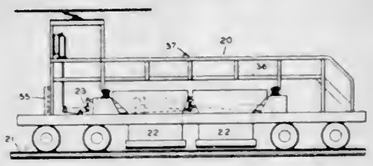
An apparatus for the even controlled and continuous indirect heating of a fluid which comprises in combination a lower refractory lined bed member containing a long horizontal shallow fixed bed of refractory granules and provided at the bottom with a plurality of separate combustion zones with burners, at least one of said combustion zones being provided for each 4 square meters of horizontal cross-section, a deflection cap at the end of each of said combustion zones just above the bottom of said bed and arranged to deflect the hot combustion gases in a horizontal and radial direction in said bed, a relatively open hold-down screen resting upon said bed, an upper refractory lined cover section arranged to rest upon said lower section and form a seal therewith, said cover section being provided with: (*a*) upper discharge vents with cyclone dust separators (*b*) horizontal tubes to be heated (c) tube support brackets, and (*d*) outlets above and adjacent said seal, and a shallow bed of fluidized finely divided refractory powder supported upon said fixed bed and screen and covering said tubes to be heated.

2,610,843

SCALE WEIGHT TOTALIZING DEVICE

Eugene W. Schellentrager, Shaker Heights, Ohio, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio, a corporation of Ohio

Application August 28, 1948, Serial No. 46,637
7 Claims. (Cl. 265—5)



1. In a material receiving and conveying system wherein a car is movable along a way between a plurality of car charging positions and a car discharging position, and where loading means is provided at each such car charging position for loading a respective plurality of different ingredients into the car, in combination, an ingredient identifying member rotatable to a plurality of indexed points corresponding to respective charging positions, weight indicating means rotatable responsive to change in car weight at any loading position, and disposed adjacent said ingredient identifying member, and individual ingredient weight totalizing means comprising a plurality of independent weight counters, driving means for said weight counters, each such counter having a normally disengaged clutch adapted to couple it to said driving means, a totalizing Selsyn transmitter coupled to said weight indicating means, a totalizing Selsyn receiver coupled to said driving means and to said totalizing Selsyn transmitter, whereby movement of said weight indicating means produces corresponding movement of said driving means, each said clutch being responsive only to position of said identifying member in one said indexed point, whereby driving movement of said driving means is effective only upon one said clutch and upon its respective counter.

2,610,844

SCALE

Nathan A. Hallwood, Columbus, Ohio; Thelma T. Hallwood, administratrix de bonis non for said Nathan A. Hallwood, deceased, assignor to Thelma T. Hallwood, Columbus, Ohio

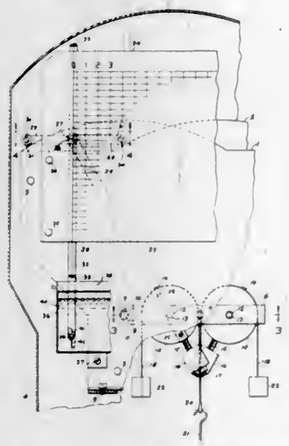
Application December 16, 1946, Serial No. 716,468
9 Claims. (Cl. 265—29)



2. In a device for determining the number of duplicative articles in a group thereof of the type having a stationary index and a chart supported for movement relative to said index at right angles to the length thereof; an index movable longitudinally of said stationary index, said movable index having a helical reference element; and weight actuated means for moving said hel-

ical reference member about an axis a distance determined by the weight of a known number of said duplicative articles.

2,610,845
WEIGHING SCALE
Johan Fredrik Bengtsson, New York, N. Y.
Application August 11, 1947, Serial No. 768,009
3 Claims. (Cl. 265—62)



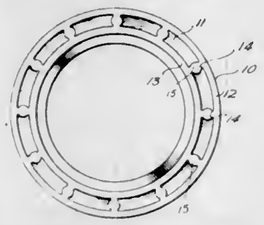
1. In a weighing scale, a frame, a bracket comprising two trunnions mounted on said frame and rotatable on said trunnions, two co-operative load-counterbalancing pendulums, each having a power cylinder and being ribbon-connected to a load, said pendulums being rotatably mounted on said bracket and one on either side of said bracket trunnions, means for adjusting said bracket about its trunnions in order to equalize the angularity of said pendulums, a chart, an indicator connected with said pendulums and movable over the chart, dampening means for said indicator, and gravity means for enabling said pendulums to counterbalance the load on either side of the vertical through the pendulum fulcrum.

2,610,846
PACKING RING
John C. Hanna, Chicago, Ill., assignor to Hanna Engineering Works, Chicago, Ill., a corporation of Illinois
Application December 2, 1949, Serial No. 130,768
4 Claims. (Cl. 267—1)



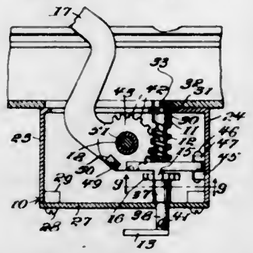
1. In a packing ring, a wire coil spring the ends of which have been joined to form a resilient member of annular shape, a retaining member of substantially annular shape having location within and extending through the convolutions of the coil spring substantially on the center line of the convolutions and on which the said coil spring is mounted, said retaining member having notches for receiving the wire element of certain convolutions respectively, to thereby hold the coil spring and the retaining member in assembled relation, and said convolutions being partially flattened so that they extend diagonally of the retaining member with adjacent convolutions being parallel, whereby the said resilient member will yieldingly oppose compressive forces in the direction of its axis.

2,610,847
CORRECTING SPRING ALIGNING SPACER RING
Brenner B. Fox, San Antonio, Tex.
Application August 21, 1951, Serial No. 242,860
2 Claims. (Cl. 267—60)



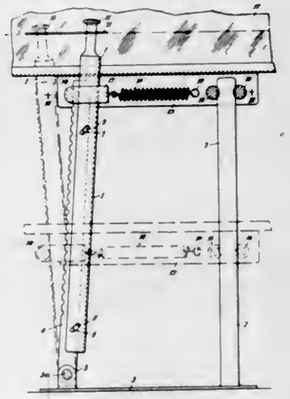
1. A correcting spring aligning spacer ring comprising a rigid ring-like body having a deep annular channel formed in one face thereof, radiating ribs extending transversely of the channel and for the depth of the channel to reinforce the ring, and an inclined flange extending at an angle to the body around the inner periphery of the ring.

2,610,848
WINDOW AND VENTILATOR ACTUATOR AND LOCK
Hamilton S. Carlston and Herbert E. Morrow, Fresno, Calif.
Application July 18, 1951, Serial No. 237,466
4 Claims. (Cl. 268—119)



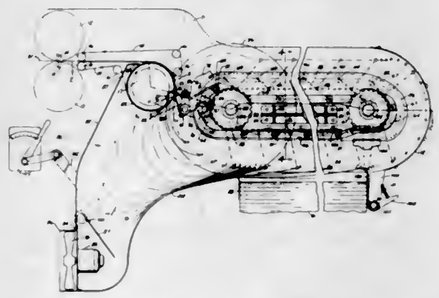
1. In a window sash operator, the combination which comprises a window frame, a sash pivotally mounted in the window frame, a casing positioned on the window frame, an arm pivotally mounted in the casing and extending therefrom, means operatively connecting the extended end of the arm to the sash, said arm having a hub with worm gear teeth in the peripheral surface on the end thereof positioned in the casing, a worm gear positioned in the casing and meshing with the teeth of the hub of the arm, a shaft extended through the casing for mounting the worm gear, a tubular section slidably mounted on one end of the shaft, a hand crank carried by the outer end of the tubular section of the shaft, a ratchet wheel mounted on the tubular section of the shaft, a latch bar having a tooth thereon pivotally mounted in the casing and positioned whereby the said tooth is adapted to drop into engagement with teeth of the said ratchet wheel, and means actuating the said latch bar for moving the tooth out of engagement with the teeth of the ratchet wheel upon closing of the sash.

2,610,849
MECHANISM FOR IMPARTING RECTILINEAR MOVEMENT TO A MEMBER
Frederick Charles Young, Willesden, London, England, assignor of one-half to George Beaton and Son Limited, London, England
Application December 14, 1949, Serial No. 132,810
In Great Britain December 17, 1948
9 Claims. (Cl. 268—122)



1. Mechanism for imparting rectilinear movement to a member in opposite directions comprising in combination with the member to be moved, a stationary frame element, a pair of guide bars connected to said frame element and extending in a common plane in a direction generally in the direction of movement of the said member, at least one of said guide bars being pivotally connected to said frame element so that the guide bars can be relatively adjusted between positions in which they converge towards each other and diverge from each other, a pair of rollers mounted on bearing means supported in spaced relationship on the said member so as to engage the said guide bars, and spring means effectively connecting said bearing means for urging the rollers into contact with the corresponding guide bars.

2,610,850
SHEET DELIVERY MECHANISM FOR PRINTING MACHINES
William F. Huck, Forest Hills, N. Y., assignor to Huck Co., New York, N. Y., a partnership
Application February 24, 1948, Serial No. 10,235
18 Claims. (Cl. 271—79)



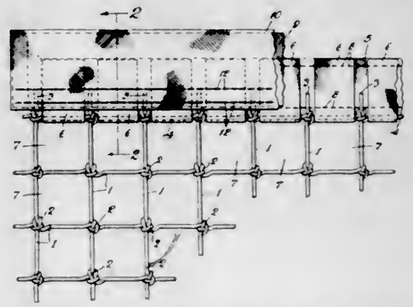
1. A delivery mechanism, comprising, a sheet presenting member moving at a high rate of speed and in a predetermined direction; a plurality of sheet gripping mechanisms, each gripping mechanism having a gripper arranged to grip a sheet; means moving at a uniform rate of speed that is slower than the speed of said sheet carrying member, said means being connected to and moving said gripping mechanisms successively toward a sheet gripping position adjacent to said sheet presenting member and at said position moving said sheet in the same general direction that said sheet presenting member is moving; a cam follower secured to each of said sheet gripping mechanisms; a cam adjacent to the means moving at the uniform rate of speed and having an irregular path, which cooperates with the cam followers, to move each gripper during its gripping operation at a speed greater than the speed of said uniformly moving means and equal to the speed of the high speed sheet presenting means, said cam having, remote from said first path, a second path which cooperates with the cam follower to move each gripper substantially to a standstill; means for causing said grippers to grip the sheet while moving at the high rate of speed; and means for causing said grippers to release the sheet when they are substantially at a standstill.

2,610,851
DOG'S TOY
Win Jones, Grand Rapids, Mich.
Application April 1, 1948, Serial No. 18,419
1 Claim. (Cl. 272—8)



A dog's toy comprising a resilient element molded to form a medial stem portion in simulation of a smoker's pipe stem and oposite end portions each in simulation of a smoker's pipe bowl, said end portions extending radially from the opposite ends of said stem portion at angles approximately ninety degrees apart, and said end portions each being receivable in the mouth of the dog.

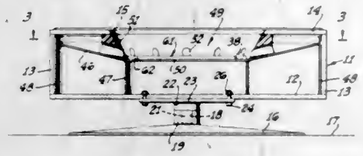
2,610,852
GAME NET AND METHOD OF MAKING THE SAME
Lothar A. Ederer, Chicago, Ill., assignor to R. J. Ederer Company, Chicago, Ill., a corporation of Illinois
Application November 10, 1948, Serial No. 59,358
12 Claims. (Cl. 273—29)



1. In combination in a game net, a main net body formed of a plurality of flexible members ar-

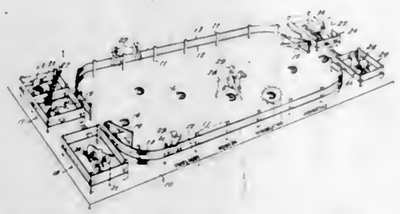
ranged to form a plurality of meshes and means for finishing an edge of said net, said finishing means including a member provided with a plurality of laterally directed unitary parts, said parts extending through said meshes and being positioned against said member, and stitches holding said member and said parts together, said stitches being positioned outside of said main net body, and cavity forming means comprising a folded fabric member, the edges of said fabric member overlying said first-mentioned member and its parts, and stitches extending through said fabric members, said stitches being positioned outside of the main net body.

2,610,853
MARBLE GAME APPARATUS
Mervin A. Livingston, El Monte, Calif.
Application November 23, 1949, Serial No. 129,126
2 Claims. (Cl. 273—121)



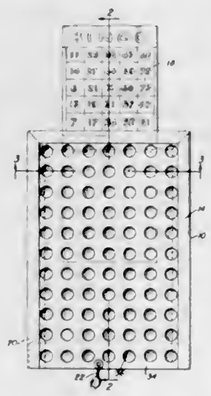
1. Marble game apparatus comprising a flat, circular field, an annular marble course encircling said field, the surface of said course flaring upwardly and outwardly from the edge of said field, a tubular screen extending upwards from said course and arranged concentrically thereof adjacent the peripheral edge of said field, an outer wall encircling said course to define the circular outer edge thereof, an annular cover extending across the space between the upper edge of said screen and the upper edge of said outer wall, the wall of said tubular screen being of material thickness and having a plurality of angularly spaced tunnels extending downwardly and inwardly therethrough providing paths for marbles from the surface of said course to the surface of said field, and means for projecting a marble along the surface of said course, said screen, outer wall, and cover being of opaque material whereby a marble on said course is concealed from view until it enters one of said tunnels.

2,610,854
GAME DEVICE SIMULATING A WESTERN RODEO
Kenneth F. Card, Canova Park, Calif., assignor of one-third to James L. Austin, Los Angeles, Calif., and one-third to George F. Smyth, Inglewood, Calif.
Application July 14, 1950, Serial No. 173,914
5 Claims. (Cl. 273—134)



5. Apparatus for playing a game simulating a rodeo, comprising: a substantially rectangular board; a plurality of post-like members vertically projecting from one surface of said board; a plurality of rail-like members horizontally interconnecting said post-like members to define a railed enclosure on said board representing a rodeo arena; a plurality of play demarking areas arranged across said enclosure; a plurality of game pieces in the form of cowboys; cooperating means on said game pieces and said railed enclosure for mounting said game pieces on the latter; a plurality of game pieces in the form of animals ridden by cowboys in a rodeo; and cooperating means on said animal game pieces and the game pieces in the form of cowboys for mounting the latter on said animal game pieces to simulate a cowboy astride an animal, whereby a cowboy game piece and a game piece simulating an animal ridden may be moved from one play demarking area to another as a unitary game piece.

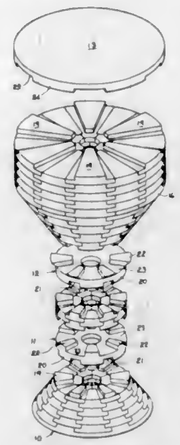
2,610,855
CHANCE CONTROLLED GAME APPARATUS
Joseph M. Spiller, Honolulu, Territory of Hawaii
Application October 7, 1947, Serial No. 778,351
4 Claims. (Cl. 273—135)



1. A game apparatus including a frame, a game board hinged to the rear of said frame and selectively movable in a plane parallel to that of the frame and about a pivot perpendicular to the plane of said frame into concealed and playing positions, indicia upon said game board directing the positioning of specific game pieces thereon, a play controlling board removably secured in said frame and having play determining indicia thereon, said last mentioned indicia being selective in succession to determine the order of play and the identity of a piece to be positioned upon the corresponding indicia of the game board, a spacer board overlying said play controlling board and having openings each registering with one of said indicia, a sheet of opaque, frangible material overlying said openings, a retaining means extending through said frame, and play controlling board and said spacer board.

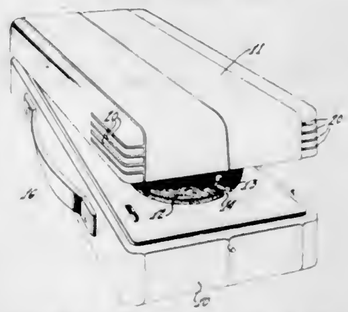
2,610,856
SECTIONAL THREE-DIMENSIONAL PUZZLE
Cleo M. Welty, Wichita, Kans.
Application June 30, 1949, Serial No. 102,255
5 Claims. (Cl. 273—160)

1. A three dimensional figure puzzle adapted to be built up by the laying of puzzle pieces in superposed interlocking transverse courses, comprising: a base plate having a plurality of spaced flat radially disposed substantially sector shaped bosses on its upper surface, the inner ends of said bosses terminating short of the center about which said bosses are arranged; a plurality of cooperating substantially sector shaped riser pieces adapted to be laid in successive superposed interlocking courses on said base plate, the base portions of said risers being flat and of a size and shape to complementally seat in the respective spaces between bosses on the base plate,



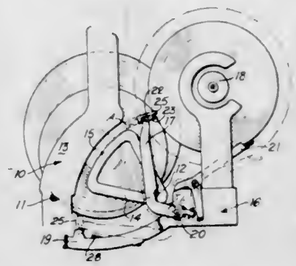
and the upper portions of said risers being in the form of substantially sector shaped bosses identical in cross-sectional size and shape to the bosses on said base plate, whereby the upper surface of each assembled course of riser pieces is substantially identical in circumferential cross sectional configuration to the surface of said base plate, the riser pieces of each course being offset circumferentially with respect to the respective riser pieces in the course immediately above and below.

2,610,857
PORTABLE PHONOGRAPH
Frank E. Cook, Runnemeda, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 20, 1946, Serial No. 678,037
3 Claims. (Cl. 274—2)



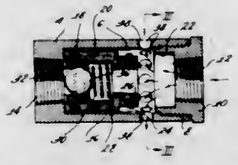
1. A portable phonograph including top and bottom sections in the form of receptacles hinged together, the two sections being complemental in shape to form a closed housing, the bottom section of said housing containing a turntable and operating mechanism therefor, and the top section of said housing containing means forming an elongated sound chamber whereby said top section and means constitute a tone arm, a sound box adapted to carry a stylus mounted at one end of said chamber, the said hinge consisting of parts pivoted together to swing in two directions at right angles to each other and one of said parts consisting of a stub shaft slidably mounted in one of said sections, whereby the said top section may be bodily raised from the lower section and swung open for loading a record on the turntable and swung downwardly to permit the stylus to engage the record when placed on the turntable in record playing position.

2,610,858
AUTOMATIC PHONOGRAPH
Mahlon W. Kenney, Oak Park, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application December 9, 1949, Serial No. 131,991
4 Claims. (Cl. 274—10)



1. An automatic phonograph comprising supporting means and spacers for a plurality of records, a lever having a normal position clear of said spacers and records, actuating means for moving said lever from and to said normal position and between adjacent spacers to effect and control outward and inward movements of a record located between said adjacent spacers, a pair of outwardly directed arms on said lever, means biassing said arms into divergent relation, and a separate member engaged by said arms in the normal position of said lever for moving them into closer spacing.

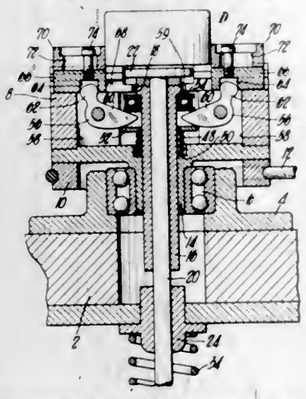
2,610,859
QUICK-EXHAUSTING VALVE
Warren Wilcox and Donald E. Daniel, Oakland, Calif., assignors to Modern Products, Inc., Los Angeles, Calif., a corporation of California
Application July 9, 1949, Serial No. 103,918
1 Claim. (Cl. 277—44)



A quick exhausting valve of the class described comprising: a body member having a cylindrical chamber therein with inlet and outlet ends; said body member having pressure inlet and outlet ports communicating respectively with the inlet and outlet ends of the chamber; the outlet end of the chamber having a cylindrical reduction defining a shoulder, the reduction being flared at said shoulder; said body member having a vent opening communicating with the interior of the cylindrical chamber adjacent said reduction; a valve piston slidable in said chamber and having a valved passage therethrough with inlet and out-

let ends, the outlet end of the piston being reduced; a seal disposed between the chamber wall and the piston adjacent the inlet end of the piston; a seal carried by the reduced end of the piston, said seal having less outer diameter than the larger portion of the cylindrical chamber but of a size to produce a sealing fit in the reduced end of the chamber when the piston is moved to a position at the outlet end of the chamber; in this position, the opening being located between the two seals and closed to flow from the outlet of the body member; the piston, when moved to a position at the inlet end of the chamber, having the seal of less diameter retracted from the reduced end of the chamber whereby an exhaust flow path is opened from the outlet of the chamber directly to the vent opening in the body, the piston being withdrawn from said flow path.

2,610,860
AUTOMATIC CHUCK
Richard L. Coan, Cleveland, Ohio, assignor to United States Steel Company, a corporation of New Jersey
Application June 13, 1950, Serial No. 167,859
3 Claims. (Cl. 279—119)



2. An automatic chuck comprising a chuck body having an axial bore therein, a pad disposed for axial movement within said axial bore, a plurality of jaws mounted for radial movement on said chuck body around said pad, a plurality of bell cranks pivoted in said chuck body one beneath each of said jaws, each of said bell cranks having a pair of arms, one arm of each bell crank being connected to its associated jaw, the other arm of each of said bell cranks extending inwardly, a spindle attached to said pad and extending downwardly through said bore, a bushing surrounding the upper portion of said spindle beneath said pad, a bearing surrounding said bushing above said inwardly extending bell crank arms, a spring surrounding said bushing beneath said inwardly extending bell crank arms and bearing thereagainst to urge said jaws outwardly away from said pad, lowering of said spindle moving said jaws inwardly against the action of said spring, and operating means for raising and lowering said spindle.

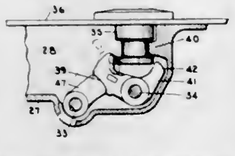
2,610,861
SKI BINDING
Frank H. Campbell, Pasadena, Calif.
Application September 7, 1948, Serial No. 48,009
19 Claims. (Cl. 280—11.35)

1. In a ski, means for binding the ski to a ski boot comprising a toe clamp including a support member affixed to the ski, a cleat adjustably mounted to the support member and adapted to engage and hold the toe of the boot to the ski, a heel clamp including a framework mounted to the ski, a pivot arm pivoted in the framework, a link, one end of the link being pivoted to one end of the pivot arm, a pawl extending



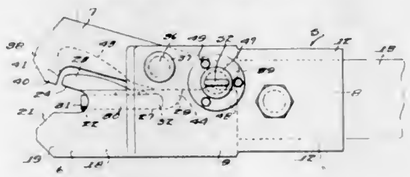
from the other end of the link and free to pivot about an axis transverse to the axis of rotation of the link, a lever pivotally mounted to the framework and spaced from the pivot arm, a helical spring connecting the opposite end of the pivot arm to the lever, and a cleat affixed to the heel of the boot and adapted to receive the pawl.

2,610,862
FIFTH WHEEL LOCKING MEANS
Ray A. Braunberger, Chicago, Ill.
Application November 17, 1948, Serial No. 60,575
14 Claims. (Cl. 280—33.05)



1. A cast fifth wheel plate having a horizontal flat top surface, a slot extending from one edge to the center of the plate, an integrally cast horizontal lip extending around the semi-circular end of the slot, a lock housing below the end of the slot integrally cast with said plate, parallel side walls in said housing, two horizontal studs supported in said walls, an arm pivoted on one stud, a pawl pivoted on the other stud and adapted to be moved into the path of said arm to hold it in its elevated position.

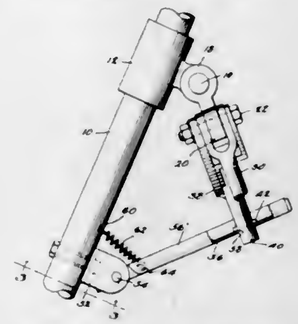
2,610,863
TRACTOR HITCH
George D. Null and Clifton E. Zepp, Taneytown, Md.
Application August 30, 1950, Serial No. 182,348
2 Claims. (Cl. 280—33.15)



1. In a tractor hitch for coupling a tractor in draft relation with trailers, farm implements and the like having a coupling pin, a support carried by said tractor, cooperating jaw members on said support for receiving said coupling pin, one of said jaw members being fixed and provided with a coupling pin receiving opening, a projection on said fixed jaw member forming with said opening a slot for receiving said coupling pin, the other of said jaw members being pivoted to the support and provided with a hooked end adapted to close

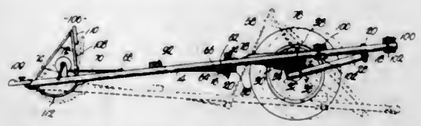
said slot, a longitudinally extending bore in said fixed jaw communicating at one end with said slot and at the other end with an open sided slot in said fixed jaw, a segment positioned in said open sided slot a sliding actuator carried by the bore in the fixed jaw and having one end projecting into said slot and adapted to be engaged by a coupling pin entering said slot and its other end in engagement with the segment which is positioned to engage the pivoted jaw member, and a spring pressed locking bolt carried by the support adapted to be yieldingly urged between the tail portions of said jaw members to hold the same in a closed position.

2,610,864
WHEEL CONTROL MECHANISM FOR GOLF CLUB CARRIAGES
William C. Alexander, Port Arthur, Tex.
Application July 9, 1951, Serial No. 235,863
3 Claims. (Cl. 280—38)



1. In a wheel control mechanism for a golf club carriage, a substantially horizontal bar mounted on the carriage to move about a substantially horizontal axis, wheel-carrying rods pivoted to the bar for movement about axes which lie in spaced perpendicular relation to the horizontal axis, an arcuate member carried by the bar and engaging the rods, stops carried by the arcuate member for engaging the rods and limiting the outward movement thereof about the perpendicular axes, a tongue carried by the arcuate member and projecting therefrom from the side thereof remote from the bar to form a handle by which the bar and arcuate member may be moved about the horizontal axis, and means carried by the carriage in spaced relation to the horizontal axis for engaging the tongue and holding the rods at an angle to the carriage.

2,610,865
TRAILER FOR BOATS AND THE LIKE
Orel Lee Cantrell, Topeka, Kans.
Application June 1, 1948, Serial No. 30,470
2 Claims. (Cl. 280—44)



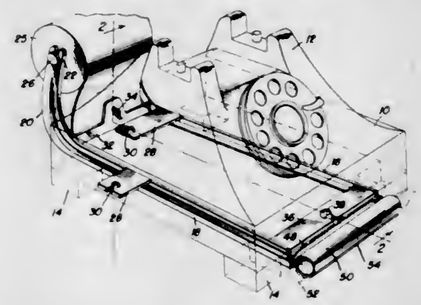
1. A trailer comprising a pair of ground-engaging wheels, each provided with an axle; a leaf spring secured to each axle respectively and extending radially therefrom in one direction; a rod on each axle respectively and extending radially therefrom in the opposite direction; a frame between the wheels, having a first cross arm pivotally secured to said rods and a second cross arm spaced from the first cross arm; a cable carried by the second cross arm and attached to said leaf springs; and means on the frame attached to said cable for holding the leaf springs against swinging movement away from the second cross arm.

2,610,866
FENDER SHIELD MOUNTING
George W. Schatzman, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application April 12, 1947, Serial No. 741,103
5 Claims. (Cl. 280—153)



1. In combination in a fender and fender shield assembly, the fender having a wheel access opening and the fender shield being adapted to close said opening, respective attaching structures for the ends of the fender shield, and an intermediate attaching structure for the intermediate portion of the fender shield, said end attaching structures comprising respective hook-shaped brackets mounted on the fender shield and means on the fender providing bearing pins extending into said wheel access opening and engaged by the brackets, said brackets having their pin-engaging hooks of approximately 240° engagement arcs to permit approximately 90° pivotal swinging of the fender shield into and out of engagement with the fender.

2,610,867
TELEPHONE MEMO PAD ASSEMBLY
William C. Hamilton, Esther, Mo.
Application July 13, 1949, Serial No. 104,518
4 Claims. (Cl. 281—12)



1. A telephone memo pad assembly comprising a pair of parallel guide rails, confronting longitudinal grooves in the guide rails, a transverse bar connecting one pair of adjacent ends of said guide rails, upwardly extending portions on the other pair of ends of said guide rails, a transverse spacer bar connecting said other pair of ends adjacent said upwardly extending portion, a spindle rotatively mounted on and between said upwardly extending portions, a table having lateral opposed channel members slidably mounted in said grooves, a horizontal shear bar fastened to

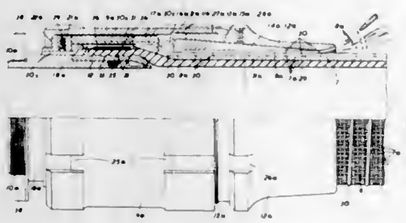
said table and spaced above the main surface of said table, whereby paper from a roll mounted on said spindle may be fed between said channel members over the main surface of said table and beneath said shear bar.

2,610,868
EXPANDING FOLDER AND METHOD OF MANUFACTURING SAME
Maurice Flament, Lille, France
Application May 22, 1940, Serial No. 336,571
In France June 9, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires June 9, 1959
7 Claims. (Cl. 282—11.5)



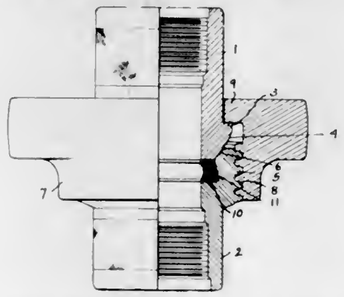
7. A folder of the concertina type comprising a series of pads each consisting of a plurality of sheets of paper, said pads each having a pair of opposed straight parallel edges, a film of a glue which remains flexible after drying extending over the opposed parallel edges of each pad whereby said sheets of paper are detachably connected together, and hinges formed by said film of glue extending across and between alternate pairs of edges of said series of pads.

2,610,869
FLEXIBLE HOSE END CONNECTION
Percy Raymond Allison, Felpham, England, assignor to Flight Refuelling Limited, London, England, a British company
Application April 22, 1949, Serial No. 89,020
In Great Britain March 30, 1949
9 Claims. (Cl. 285—86)



1. An adaptor-assembly constituting the end connection of a flexible hose comprising a stress-carrying outer cover of woven fabric having longitudinal and transverse strands and a substantially unstressed fluid-tight liner, said adaptor-assembly comprising an outer sleeve inwardly flanged at one end and internally threaded at the other, a sleeve externally threaded to engage the thread of the outer sleeve and having a taper-bore whereby said externally threaded sleeve constitutes a cone-housing, a split sleeve externally tapered to fit the taper bore of the cone-housing, the mating tapers being cones of very small vertex angle, an abutment collar housed within the outer sleeve, an inner sleeve supporting the liner of the hose internally and having an outward flange retained between the inward flange of the outer sleeve and the abutment collar, and a loose ring which is located between the thick end of the split-cone and the abutment collar and round which the bared longitudinal strands of the outer cover of the hose are wrapped and laid back along the outside of the cover within the split-cone, so that when the outer sleeve and cone-housing are drawn together by screwing them one onto the other, the loose ring and the longitudinal strands of the cover wrapped round it are gripped between the split-cone and the abutment collar.

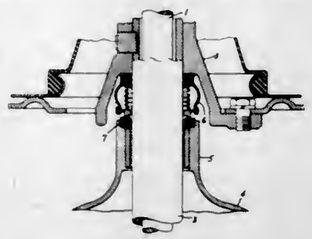
2,610,870
UNION HAVING PRESSURE RESPONSIVE SEAL
Daniel J. Parmesan, Houston, Tex., assignor, by mesne assignments, to Chiksan Company, Brea, Calif., a corporation of California
Application July 12, 1948, Serial No. 38,250
3 Claims. (Cl. 285—122)



1. A union which comprises, in combination, a first and a second coupling member, said first coupling member having at one end an outwardly curved annular external face and said second coupling member having an inwardly extending frusto-conical face adapted to contact the curved face of said first member in an annular line contact to form a metal-to-metal seal therewith, said members each having an internal plane face opposite one from the other, an annular resilient seal ring between said coupling members internally adjacent said faces forming said metal-to-metal seal and adapted to seat oppositely disposed faces thereof against said plane faces of said coupling members, said oppositely disposed faces of said seal ring having concentric grooves therein to thereby form concentric ribs on last said faces of substantially trapezoidal cross-section, said sealing ring having an internal annular face of sufficient area to permit fluid pressure to urge said ribs in sealing relationship with said plane faces.

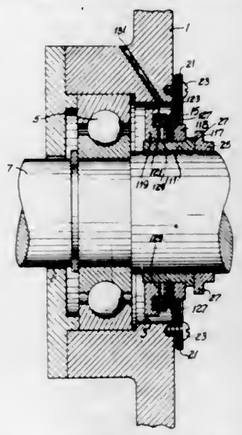
2,610,871
ROTATING SHAFT SEAL
Thomas T Woodson, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application October 25, 1949, Serial No. 123,448
1 Claim. (Cl. 286—11)

For use with a shaft and means for journaling said shaft, a fluid seal comprising an annular member carried by said journaling means concentric about said shaft, said annular member having a bearing surface normal to the axis of said shaft, a boot disposed about said shaft and comprising an elastic collar portion spaced along said shaft from said annular member and a flexible portion extending from said collar portion along said shaft toward said annular member, an annular rigid liner molded within said collar portion and integral therewith, said rigid liner having a first wall portion parallel to the axis of said shaft and a second wall portion extending transversely to the axis of said shaft from said first wall portion but circumferentially spaced from said shaft, a first part of said collar portion being held in compression between said shaft and said first wall portion and a second seating part of said collar portion being adjacent to and



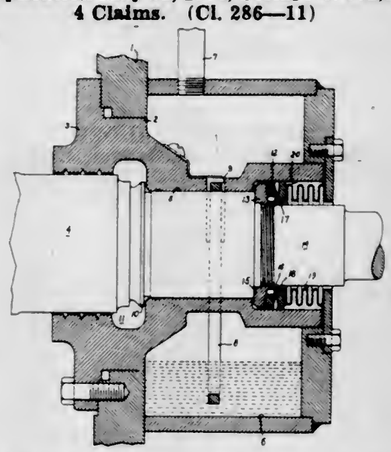
backed by said second wall portion, an annular nose piece concentric about said shaft and axially movable thereon, means for fastening said nose piece in sealed relation to said flexible portion, said nose piece having a mating surface thereon, and resilient means for urging said mating surface into sealing contact with said bearing surface, said resilient means being disposed between said boot and said shaft and bearing axially against said seating part which is reinforced thereagainst by said second wall portion.

2,610,872
SHAFT SEAL
Charles T. Hayes, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware
Application October 6, 1948, Serial No. 53,045
4 Claims. (Cl. 286—11)



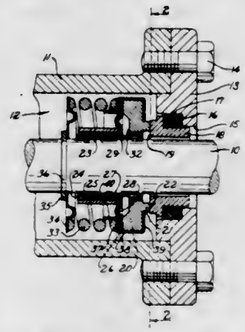
1. For use in a shaft seal, a flexible closure member having an opening, an oil-impregnated sleeve of porous material fixed concentrically within the opening in the member in sealed relation with respect to the member, the sleeve being adapted for a self-lubricating running seal between its interior and the periphery of a shaft extending through the sleeve, and lubricating means including an absorbent wick adapted to be saturated with oil carried by the sleeve for supplying oil thereto to make up loss of oil from the sleeve.

2,610,873
SHAFT SEAL
Christian Steenstrup, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 21, 1946, Serial No. 671,301
4 Claims. (Cl. 286—11)



1. A shaft seal comprising a casing provided with a shaft aperture, a rotatable shaft extending through said aperture, means providing an annular shoulder on said shaft, a first annular sealing member mounted against said shoulder, a ring surrounding said shaft, a second annular sealing member on said ring, and a resilient sealing means for securing said ring to said casing and for maintaining said sealing members in engagement during rotation of said shaft, one of said sealing members being composed solely of a dished disk of flexible metal arranged to have peripheral contact with the other of said members.

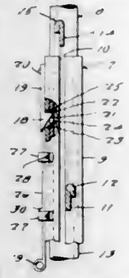
2,610,874
DRIVING MEANS FOR FLUID SEALS
Frank E. Payne, Glencoe, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application August 12, 1946, Serial No. 689,855
3 Claims. (Cl. 286—11)



1. In a fluid seal for relatively rotatable elements, a compressible sealing member comprising a cylindrical section at one end adapted to contact one of the elements, said cylindrical section having a counterbore, a wear-resistant radially disposed section at the other end for contacting the other element with a fluid-tight running fit, a diaphragm connecting the sections of the sealing member, a band encircling the cylindrical section and adapted to compress the

cylindrical section against the said one element, a sleeve in the counterbore and adapted to compress the counterbored portion against the clamping band, said sleeve telescoping into the radially disposed section, and lugs on the sleeve, said radially disposed section having axially disposed notches into which the lugs extend to prevent relative rotation between the end sections of the sealing member.

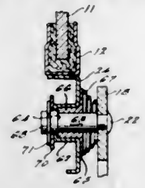
2,610,875
EXTENSION LADDER
Harry L. Wheelden, Bangor, Maine
Application March 26, 1948, Serial No. 17,149
1 Claim. (Cl. 287—58)



In combination, an outer member, an inner member, means assembling said members for longitudinal movement relative to each other, said outer member being formed with an opening exposing a side of said inner member, a longitudinal resilient latch arm secured at one end to said outer member, said latch arm being tensioned toward said inner member, a latch head on the other end of said latch arm yieldably held in said opening by the tension of said arm, said latch head having a transverse locking face on one end thereof and a cam face, said cam face being inclined with respect to the longitudinal axis of the latch arm, said side of the inner member being formed with longitudinally spaced slots into which said latch head is adapted to be selectively engaged so as to lock the outer and inner members against longitudinal movement relative to each other in one direction, the inclined cam face of the latch head being arranged to be engaged by an edge of a slot in the inner member upon relative longitudinal movement of the members in the opposite direction whereby the latch head is cammed out of the slot in the inner member so as to permit further relative longitudinal movement of the members in said opposite direction, said outer member having a slider mounted for longitudinal movement therealong at the end of the latch head remote from the transverse locking face thereof, said slider being normally out of contact with the latch head and being movable along the outer member to engage the cam face of the latch head so as to cam the latch head out of a slot of the inner member and free the outer and inner members for relative longitudinal movement in either direction.

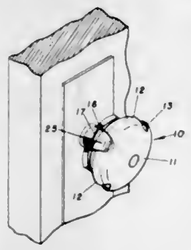
2,610,876
PIVOTAL JOINT FOR WINDOW CONTROL MECHANISM
John H. Roethel, Detroit, Mich., assignor to Marvel Equipment Corporation, Detroit, Mich., a corporation of Michigan
Application February 15, 1946, Serial No. 647,773
14 Claims. (Cl. 287—93)

13. In a window regulator, a swinging window regulator arm, a member, said member having a longitudinal channel formed therein and providing upper and lower vertically spaced horizontal longitudinal bearing surfaces, said surfaces being connected at their edges furthest away from said arm by an upright back wall, said back wall formed with a longitudinal slot of less height than the distance between said surfaces, a device attaching the swinging arm



to the member and provided with a bearing slidable within said channel against said surfaces and a part projecting through said slot, said slot having a width slightly greater than the cross-sectional dimension of said projecting part whereby said part is free of substantial frictional engagement with the edges of the slot, and means attached to said projecting part for preventing withdrawal thereof from said slot.

2,610,877
ATTACHMENT FOR DOOR KNOBS
Clark H. Weaver, Berkeley, Calif.
Continuation of abandoned application Serial No. 728,901, February 15, 1947. This application March 31, 1950, Serial No. 153,235
5 Claims. (Cl. 292—1)

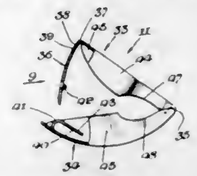


2. A handle structure for doors comprising an operating knob adapted to turn about its geometrical center axis for effective operation, and a free shell of firm material arranged around and supported solely by said knob, said shell having a smooth inner surface so as to be freely rotatable around said knob without imparting operative rotation thereto, and possessing a number of lateral openings of a size large enough to admit at least one finger of a grown-up person into contact with the surface of the enclosed knob.

2,610,878
SEAL
Winfred M. Brooks, West Orange, N. J., assignor to E. J. Brooks Company, Newark, N. J., a corporation of New Jersey
Application April 14, 1950, Serial No. 155,932
5 Claims. (Cl. 292—310)

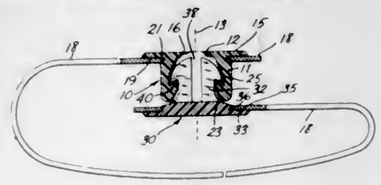
1. In a seal of sheet material comprising two main sections, to receive between them at their junction-line a strand of flexible material, said main sections bendable toward one another on said junction-line and having means adjacent their outer ends to interengage when closing said seal, said main sections having side-walls that

overlap when the seal is closed and which are provided with complementary cam-shape edges to move said strand away from said junction-line



to enable said means adjacent the outer ends of said main sections to fully interengage when closing the seal.

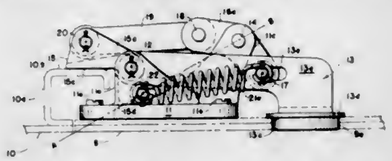
2,610,879
LOCK SEAL SUITABLE FOR MANUFACTURE IN PLASTICS
Paul M. Pope, Greenwich, Conn., assignor to A. Kimball Company, New York, N. Y., a corporation of New York
Application August 23, 1949, Serial No. 111,819
3 Claims. (Cl. 292—320)



1. An article of manufacture comprising a strip, a plastics socket element at one end of the strip, said socket element including a cylindrical body portion with a flange extending radially therefrom, and the flange of said socket element being secured to the strip, a lower end of the cylindrical portion having a socket therein with an axis substantially coincident with the axis of the cylindrical portion, the side wall of the cylinder being of greater thickness at a level intermediate the upper and lower ends of the socket to provide an inwardly extending shoulder, and a plastics latching element at the other end of the strip, said latching element having a flange that contacts with and is secured to a face of the strip, the latching element including an upwardly extending stud of one piece construction with the flange and solid but for a plurality of radially extending grooves which have a depth substantially equal to the height of the stud, and a shoulder on the stud around its periphery and in position to overlap the shoulder in the socket when the flange of the latching element is moved upward to a position adjacent to the lower end of the cylindrical portion of the socket element.

2,610,880
LATCH MECHANISM
Raymond D. Gayner, Sherman Oaks, and Thurman C. Wood, Inglewood, Calif., and Milburn C. Copold, Roselle, N. J., assignors to North American Aviation, Inc.
Application August 6, 1948, Serial No. 42,937
9 Claims. (Cl. 292—332)

1. The combination with a closure for a wall having an opening therein, of a latch element pivotally carried by said closure, an actuating lever pivotally carried by said closure and accessible from the outer face thereof, a bellcrank lever pivotally carried by said closure and pivotally engaging said actuating lever, link means pivotally interconnecting said latch element and said bellcrank lever arranged to provide a toggle



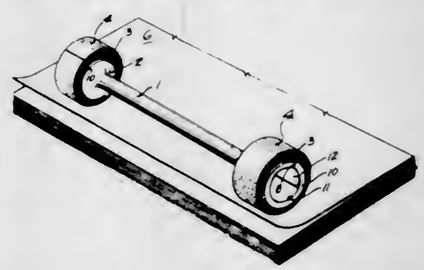
action locking force upon said latch element and resilient means acting in the latched condition of said closure to assist said toggle action.

2,610,881
VEHICLE BUMPER
Alfred Schuettpelz, Suring, Wis.
Application April 2, 1948, Serial No. 18,627
1 Claim. (Cl. 293—70)



In a vehicle bumper, the combination of a horizontal bar formed from one piece of material and provided with longitudinal corrugations affording a vertical series of alternately concave grooves and convex ribs on the front face of the bar, said bar having vertically opposed top and bottom flat plate portions, integral flanges extending downwardly from the rear edge of the top plate portion and upwardly from the rear edge of the bottom plate portion, spaced vertical straps extending transversely of the bar and abutting the rear faces of said flanges and the rearmost portions of said corrugations, ends of said straps being secured to said flanges, and bumper mounting elements secured to intermediate portions of the straps.

2,610,882
ADHESIVE PICKUP DEVICE
Frank C. Sutliffe, Mill Valley, Calif.
Application November 4, 1949, Serial No. 125,567
4 Claims. (Cl. 294—1)



1. In an adhesive device for picking up a sheet, a handle and a roll of adhesive strip at each end of the handle forming drums substantially axially aligned, the adhesive side of each strip facing toward the outside periphery of each roll.

2,610,883
TOBACCO LATH
William N. Aleshin, South Windsor, Conn.
Application November 3, 1949, Serial No. 125,301
2 Claims. (Cl. 294—5.5)

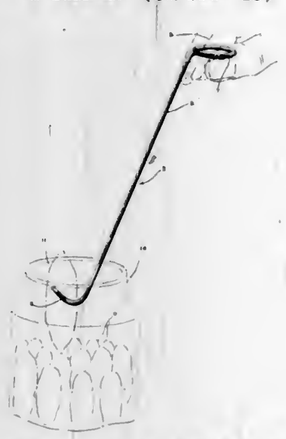
1. A tobacco leaf hanger comprising an elongated bar, a sheet metal strip secured to said bar,

and a plurality of elongated leaf-supporting spears extending from and spaced along said strip and from the opposite side edges thereof; each of said spears being lanced from the strip and comprising a neck portion extending out-



wardly therefrom, and an elongated leg portion extending laterally from the outer end of the neck portion and substantially in the same direction as the strip and having a free end portion spaced from the said strip.

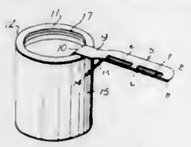
2,610,884
MEANS FOR REMOVING OLIVES AND THE LIKE FROM CONTAINERS
Herman Enderle and Joseph F. Vojak, Chicago, Ill.
Application September 20, 1949, Serial No. 116,726
2 Claims. (Cl. 294—15)



1. Means for removing floatable elements and non-floating elements and the like from containers in which both the said floatable elements and the said non-floating elements are compactly packed and confined in a solution affording buoyancy to the said floatable elements when released from their compact assemblage, comprising a body portion, a hook portion at one terminus of the said body portion, and a ring portion at the other terminus of the said body portion, the said hook portion and the said ring portion being utilized alternately but continuously as conditions require for lancing and removal of the said non-floating elements and for first loosening with the said hook portion preparatory to removal with the said ring portion the said floatable elements which when released from compact assemblage have become floating elements and for removal of the said floating elements from the said container.

2,610,885
UNITARY SELF-ADJUSTING HANDLE
Alfred J. Hayden, Port Orange, Fla.
Application April 20, 1948, Serial No. 22,071
2 Claims. (Cl. 294—27)

1. In a sheet material can handle, an elongated handle portion terminating at one end in a lateral return bent hook, a portion of said handle portion intermediate its ends being cut out to provide an abutment portion, said abutment portion pro-



jecting at an acute angle from the plane of the handle portion at the same side of the handle portion as said hook and toward said hook.

2,610,886
GARDEN TOOL
Carl A. Parker, Clyde, Ohio
Application August 31, 1949, Serial No. 113,397
1 Claim. (Cl. 294—50.9)

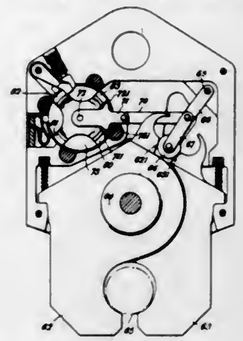


A device of the character described comprising an elongated shaft, a handle angularly extending from the upper end of the shaft, a forwardly and downwardly extending blade at the lower end of the shaft, a bell-crank lever pivotally mounted adjacent the lower end of the shaft and having a forward and a rearward arm, a downwardly directed grasping member affixed to the forward arm of the bell-crank lever, said grasping member being in the form of a loop formed of a single piece of wire, a hand-grip pivoted to the underside of the handle adjacent the outer end thereof, a link interconnecting the free end of the hand-grip and the rearward arm of the bell-crank lever and a spring interconnecting the rear arm of the bell-crank lever and said shaft.

2,610,887
BOMB SLIP AND ANALOGOUS RELEASABLE ATTACHMENT
Reginald Arthur Firman, Weybridge, England, assignor to Vickers-Armstrongs Limited, London, England
Application June 30, 1948, Serial No. 36,240
In Great Britain July 15, 1947
3 Claims. (Cl. 294—83)

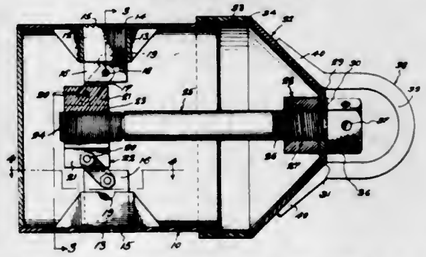
1. A releasable attachment for aircraft comprising a pair of pivoted jaws having opposed bearing surfaces, a stop movably supported for insertion between said surfaces to maintain the jaws in load-engaging position and withdrawal therefrom to release the jaws from said position, and releasing means supporting said stop for retaining said stop between said surfaces and

for imparting an impulse thereto in the direction of withdrawal thereof, the included angle between the opposed bearing surfaces of the jaws having one value at the points of contact of the surfaces with the stop when the latter is in the load-engaged position and a relatively larger value at the points of contact of the surfaces



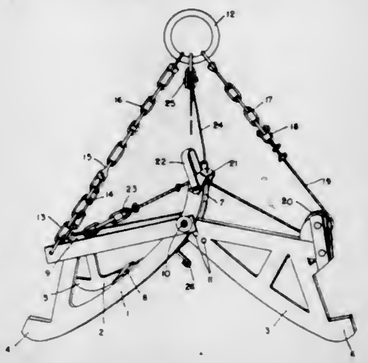
with the stop when the latter has been withdrawn slightly under the influence of the releasing means, the values of said angles at the two jaw positions being sufficient to produce a small ejective force sufficient to overcome the static friction acting on the top at normal temperature, and at the lowest working temperatures, respectively.

2,610,888
PIPE HANDLING MECHANISM
Garland B. Pace, Camp Hill, Pa., assignor to Pipe Line Construction and Drilling Company, Pineville, W. Va., a corporation of Delaware
Application November 14, 1946, Serial No. 709,819
3 Claims. (Cl. 294—93)



1. A pipe handling device comprising a substantially cylindrical body for insertion into one end of a pipe to be towed or hoisted, a conical nose closing the front end of said body and acting to cam the device and the associated pipe over and away from obstacles encountered in the hoisting or towing of the pipe, a plurality of circumferentially spaced, radial guides mounted in said body and opening through the periphery thereof, radially operable dogs working in said guides, a rotatable and axially movable operating shaft threadedly supported in said nose and extending into said body and forwardly beyond said nose, a block threadedly mounted on said shaft and axially movable therewith, the threaded connection between said block and said shaft being of a hand opposite that of the threaded connection between said shaft and said nose, means connecting said block to said dogs for moving said dogs into and out of gripping engagement with the pipe upon actuation of said operating shaft, and means carried by said device providing for its connection to a suitable towing or hoisting mechanism.

2,610,889
LIFTING TOOL
Penn W. Penn, Ravenna, Ohio
Application September 30, 1947, Serial No. 776,935
8 Claims. (Cl. 294—97)

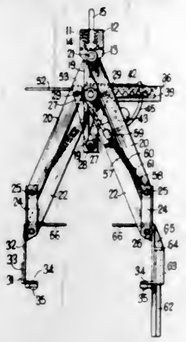


1. A mold lifting tool particularly adapted to lift molds of annular shape comprising two spaced leg members connected to form a rigid unit, a third leg member having an end interposed between said first two leg members and pivotally connected thereto, outwardly directed prongs on the ends of said legs spaced from such pivotal connection, said prongs being adapted to engage the under surface of an annular tire mold when said legs are inserted through such annular opening, catch means on said legs releasably operative to hold said third leg retracted toward said first two legs, a lifting ring, means connected to said first two legs at a point spaced from said pivot adapted to suspend said legs from said ring, a pulley on said third leg spaced from said pivot, an upstanding portion of said two-leg unit extending above such point of pivotal attachment, a cable attached to said ring passing around said pulley and over such point of pivotal attachment in engagement with such upstanding portion and adapted to bear downwardly thereagainst and secured to said other two-leg unit at a point spaced from said pivot toward the extended ends of said two-leg unit, a clevis secured to said leg assembly adjacent said pivot, a pulley suspended from said ring, and a line secured to said clevis and passing over said last-named pulley whereby such leg assembly may be elevated relative to said ring to cause such assembly to collapse.

2,610,890
LIFTING DEVICE
Gebhard Jaeger, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application June 2, 1950, Serial No. 165,656
13 Claims. (Cl. 294—110)

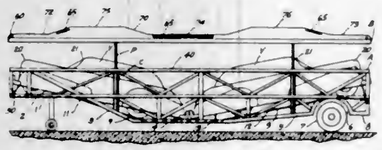
1. A lifting device for handling a stack of material or other articles comprising a supporting structure having means for suspending it from a crane or other moving device, tong structures suspended from said supporting structure and being spaced from each other in parallel planes, each of said tong structures including pivoted arms, elongated material-engaging members extending between the arms of said tong structures and being connected thereto at the lower ends thereof, a ratchet lock comprising a ratchet member pivotally connected to one arm of each of said tong structures and having a ratchet portion engaging a retaining member carried by the other arm of each of said tong structures, a ratchet-

releasing member carried by each of the tong arms which carries said ratchet arm and engaging said ratchet arm, and an operating member connected to said ratchet-releasing members and



being operable to move said releasing members for pivoting each ratchet arm to release said ratchet portion from said retaining member so that a lifting force on said supporting structure will cause said tongs to contract.

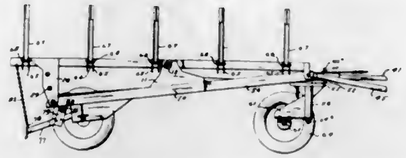
2,610,891
SEMITRAILER CONSTRUCTION
Elmer F. Crockett, Lowell, Mass.
Application June 18, 1947, Serial No. 755,311
2 Claims. (Cl. 296—1)



2. In a semi-trailer, a lower frame having an opening at the rear, a bottom, a pair of side walls and a front wall, the top of said side and front walls being on the same horizontal plane and less distant from the bottom than the height of an automobile, parallel tracks on said bottom adapted to carry two automobiles, back to back on inclined planes, an upper frame comprising a pair of side members, a front member and a rear member, the side and front members of said upper frame each having a downwardly depending flange adapted to rest on and fit around the outside of the top of the corresponding wall of the lower frame; a pair of parallel tracks carried by said upper frame and having a depressed portion at each end and in the middle and a raised portion between each depression, pistons attached to the upper frame and slidable in cylinders located within the side walls of the lower frame and beneath the centre of gravity of each car on the upper frame, snubbing means for snubbing each of said automobiles carried on said upper and lower frames and fluid pressure means connected to said cylinders for raising said pistons.

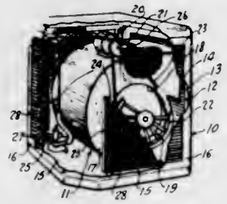
2,610,892
TILTING DUMP WAGON WITH ADJUSTABLE BODY PIVOT
Chester M. Williams, Toulon, Ill.
Application September 12, 1946, Serial No. 696,515
8 Claims. (Cl. 298—20)

1. In a dumping wagon, a chassis frame inclined downwardly from its forward end to its rearward end and having bearings on its sides, a body frame with a body thereon, trunnions on the body frame partially rotatable in the bearings, a tongue, a tongue guide on the chassis in which the tongue reciprocates longitudinally of the chassis, rods pivotally connected to the forward end of the tongue and to the front end of the body frame, means pivotally connecting the



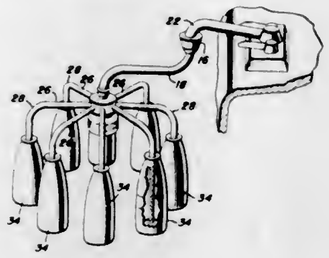
chassis and body frame at the rear end thereof whereby the body frame is held at different positions of adjustment with respect to its horizontal position, means for holding said means in different positions of adjustment, and manually operated elements for changing the positions of said means.

2,610,893
GAS AND LIQUID CONTACT PAD
Howard W. Collins, Newark, and Thomas E. Philipps, Granville, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware
Application January 11, 1949, Serial No. 70,246
11 Claims. (Cl. 299—20)



1. A contact mat for fluids comprising a mass of inorganic fibers and a binder dispersed throughout the mat for binding the fibers together, said binder comprising an organic thermosetting binder, an organic thermoplastic binder and a filler of the clay type.

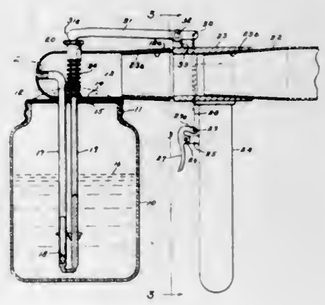
2,610,894
NURSING BOTTLE RINSER AND SPRAYER
Dianne Hall, Los Angeles, Calif.
Application October 22, 1948, Serial No. 55,915
2 Claims. (Cl. 299—83)



1. An apparatus for washing a plurality of bottles comprising a housing having a longitudinal axis, a liquid inlet neck coaxial therewith, means

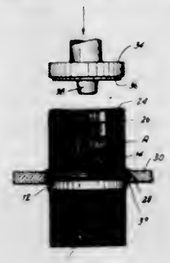
for conducting liquid into said housing, said means comprising a flexible conductor, said neck having an annular groove therein, a resilient clamping ring encircling said conductor, pressing a portion of said conductor in said annular groove to thereby hold said conductor releasably on said neck, said housing having an open bottom, a flat bottomed imperforate detergent container having an open top with a peripheral recess theren, the lower edge of said housing telescoping and being seated in said recess, means releasably connecting said container with its open top in communication with the open bottom of said housing, a plurality of tubes, said housing having openings in the sides thereof and said tubes being disposed in said openings, said tubes being arranged radially with respect to said axis, angular depending extensions disposed at the outer ends of said tubes, said extensions defining liquid chambers and said extensions having discharge orifices therein for passage of liquid into upstanding bottles in which said extensions are adapted to be disposed.

2,610,895
ADAPTER AND HANDLE FOR SPRAY GUNS
Sidney J. Stone, Lyndhurst, Ohio
Application August 10, 1949, Serial No. 109,493
5 Claims. (Cl. 299—89)



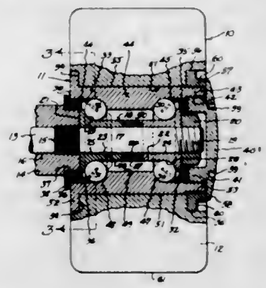
1. A device for use with a spray gun assembly having a liquid reservoir with a discharge pipe communicating with said reservoir and a valve controlling discharge from said reservoir through said pipe and an operator for said valve, and said assembly including a spray head connected with said reservoir and with a sleeve-like rear end adapted to fit a nozzle for supply of air under pressure, said spray head providing a chamber at its forward end closely surrounding the mouth of said discharge pipe, there being an opening provided for air ingress to said reservoir from said head and another opening provided for egress of air from said chamber around the mouth of said discharge pipe, said device comprising an adaptor in the form of a tube having a nozzle at its front end adapted to fit said sleeve-like end of said spray head, said tube having a sleeve-like end at its rear end adapted to fit said air supply nozzle, whereby the exterior surface of said nozzle and the interior surface of said sleeve-like end are substantially identical, a handle rigid with said adaptor and extending at an angle away from it, an actuator carried by said handle, and parts mounted on said adaptor and operatively connected with said actuator and said operator for controlling said valve operator by movement of said actuator.

2,610,896
METHOD OF MAKING BRUSH TIPS
Walton C. Marsh, Belleville, Ill., assignor to Marsh Stencil Machine Company, Belleville, Ill., a corporation of Illinois
Application July 19, 1948, Serial No. 39,470
1 Claim. (Cl. 300—21)



A method of making fountain brush tips comprising the steps of inserting a selected batch of bristles in longitudinal relationship into a ring and disposing the ring in a position well removed from one end of said batch so as to leave said bristles at said end in loose, uncompressed relation, submerging said end in a liquid cement to a level below said ring for further capillary rise of the cement between the bristles of said brush to a level above said liquid level, but below said ring, withdrawing the ring and the enclosed bristles, inserting and removing a forming tool in the cement-applied end of the bristles while the cement is still wet so as to form a well in said end extending through and beyond the cement-applied portion of said bristles and to expand the diameter of said end, applying to the expanded cement-applied end a flat cap having an open frusto-conical projection extending partially into the formed well, supporting the ring, bristles and cap by engaging the ring and applying pressure to the expanded cement-applied end of said brush through the cap to cause said expanded end to move toward and through said ring in forcing engagement therewith until the cap at said expanded end is within the inner wall of said ring at a predetermined depth.

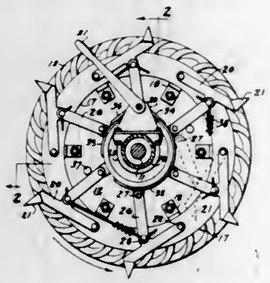
2,610,897
ROLLER SKATE ANTIFRICTION BEARING
Paul Rebmann, Wayne, Mich.
Application November 29, 1949, Serial No. 130,020
2 Claims. (Cl. 301—5.7)



1. An anti-friction bearing unit for a roller skate wheel and axle assembly comprising an inner race having a bore therethrough for receiving the axle and having an annular raceway, a pair of rows of bearing balls mounted in said

raceway, an outer race encircling said inner race and having an annular raceway engaging said bearing balls, said outer race having an outer surface configured to receive the skate roller, said outer race having a roller abutment portion at one end thereof and having its opposite end threaded, an annular threaded roller retaining element threaded upon said threaded end, said outer race having an internally bored outer end portion, and an end closure element secured in said bore, said closure element having an outwardly projecting portion extending outwardly into the path of said roller-retaining element.

2,610,898
TRACTOR LUG
George L. L. Smith, Dallas, Tex.
Application July 6, 1950, Serial No. 172,242
3 Claims. (Cl. 301—47)



1. In combination with a vehicle drive wheel having a pneumatic tire mounted thereon, lug supporting arms pivotally supported at corresponding ends thereof on said wheel and inwardly of the circumference of said tire, outwardly projecting lugs secured on the ends of said lug supporting arms opposite their said pivoted ends and adapted to extend outwardly of the circumference of said tire when said lug supporting arms are pivotally extended, a rotatable support mounted around the axial center of said wheel and adapted to be actuated in either direction, radially disposed actuating arms pivotally connected at the inner ends thereof with said rotatable support and having their remaining ends pivotally connected with said lug supporting arms between the ends thereof, and stop means projecting from said wheel, said stop means being positioned to limit the movement of said pivoted connections between said rotatable support and said actuating arms to one side of an imaginary line drawn through the axial center of said wheel and said pivotal connections between said actuating arms and said lug supporting arms when said rotatable support is actuated in a direction to extend said lugs.

2,610,899
PIPELINE TRANSPORTATION OF SOLUBLE GRANULAR MATERIALS
Walter M. Cross, Jr., Kansas City, Mo., assignor to Kansas City Testing Laboratory, Kansas City, Mo., a corporation of Missouri
No Drawing. Application February 13, 1948, Serial No. 8,295
12 Claims. (Cl. 302—66)

1. The method of transporting a soluble granular material, said material having a solubility which increases with temperature, which comprises preparing a saturated liquid solution of the material at an elevated temperature, cooling the solution to precipitate a predetermined quantity of granules of the material of predetermined size, forcing the mixture thus formed through a pipeline, and recovering the material from the mixture.

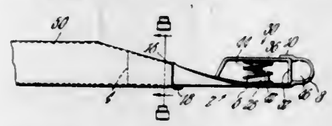
2,610,900
PIPELINE TRANSPORTATION OF SOLID MATERIALS AND PETROLEUM PRODUCTS
Walter M. Cross, Jr., Kansas City, Mo., assignor to Kansas City Testing Laboratory, Kansas City, Mo., a corporation of Missouri
No Drawing. Application February 13, 1948, Serial No. 8,296
16 Claims. (Cl. 302—66)

1. The method of simultaneously transporting a normally liquid petroleum product and granules of water soluble solid material which comprises mixing the product and an aqueous brine containing said granules, controlling the rate of settling of the granules in the product, forcing the mixture through a pipeline, and separating the material and product.

2,610,901
PIPELINE TRANSPORTATION OF SOLID MATERIALS
Walter M. Cross, Jr., Kansas City, Mo., assignor to Kansas City Testing Laboratory, Kansas City, Mo., a corporation of Missouri
No Drawing. Application February 13, 1948, Serial No. 8,297
19 Claims. (Cl. 302—66)

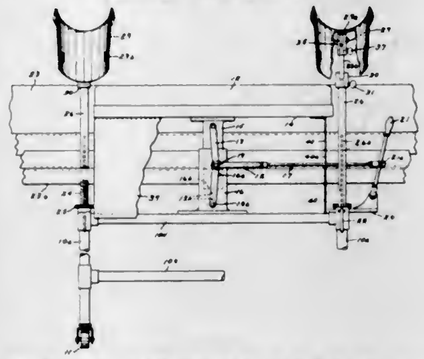
1. The method of transporting granular materials which comprises mixing said materials with a liquid and a colloidal clay capable of forming a gel with the liquid, forcing the mixture through a pipeline, and recovering the material from the mixture.

2,610,902
TUBULAR HANDLE CONNECTION
John F. Bagley, Jr., South Hadley, Mass., assignor to Stanley Home Products, Inc., Westfield, Mass., a corporation of Massachusetts
Application April 9, 1949, Serial No. 86,461
2 Claims. (Cl. 306—25)



1. A connecting construction permanently and rigidly connecting the end portion of a metallic thin walled hollow handle and the elongated rear end portion of a sheet metal mop holder comprising, the said rear end portion of the holder formed to have a transverse cross section in the shape of a U having transversely spaced vertically disposed side members providing an elongated channel open at its upper side, said side members relatively converged outwardly and upper longitudinal edges thereof inclined outwardly to the outer extremity thereof whereby said channel gradually decreases in transverse width and increases in vertical height to said extremity, said rear end portion of the holder extended into the end portion of the handle within the wall thereof and upper portions of said wall being displaced downwardly through the opening in the channel into firm contiguous relationship with inner faces of the side members of the holder and other portions of said wall at the sides of said upper wall portions being in firm contiguous relationship with outer faces and upper edges of said side members.

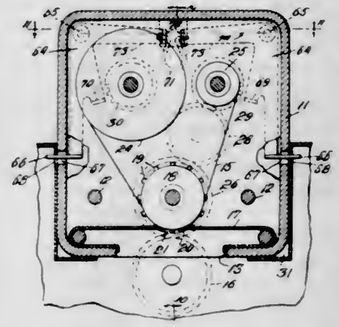
2,610,903
DELIVERY TABLE
Sidney J. Stone, Lyndhurst, Ohio
Application June 19, 1947, Serial No. 755,700
4 Claims. (Cl. 311—7)



1. A delivery table comprising a frame portion adapted to be placed alongside a bed, a narrow bed portion supported on said frame portion, said bed portion having a length parallel to the side of said bed of the order of a few feet, said bed portion having a width normal to the side of said bed of the order of six to ten inches, means for adjusting the top of said bed portion to a normal position level with the top of the body supporting surface of said bed, and other quickly operable means for lowering the entire top of said bed portion below, and for returning the same to, said normal position.

2,610,904
RECORD MAGAZINE
Freeman H. Owens, New York, N. Y.
Application August 18, 1948, Serial No. 44,852
12 Claims. (Cl. 346—136)

1. A record magazine of the character disclosed comprising a case having means by which it may be accurately located and secured in position on a machine for making a record on record medium contained within the magazine, said case being open at one side to admit gearing present on the recording machine, spooling mechanism comprising a platen roll journaled in the case in line with the opening therein for supporting a record tape passing thereover in position to be marked by the record making means on said machine, supply and take-up spools journaled in the case in back of said platen roll for



traversing the record strip over said platen roll and gearing for operating said platen roll and take-up spool and including a gear exposed at the opening in the case in position to mesh the drive gearing of the machine when the case is secured in the cooperative position described, and gears connected with said supply and take-up spools and a locking slide mounted on the back of the case and having lugs projecting into said case into position to engage said supply and take-up spool gears for holding said take-up and supply spools.

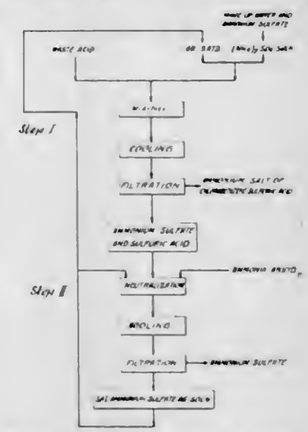
CHEMICAL

2,610,905
ACCELERATED SETTLING OF BLEACH IMPURITIES
Jerrold O. Hinshaw, Downey, Calif., assignor to Purex Corporation, Ltd., South Gate, Calif., a corporation of California
No Drawing. Application June 9, 1950, Serial No. 167,263
4 Claims. (Cl. 23—86)

1. The method that includes introducing chlorine into an aqueous sodium hydroxide solution containing impurities to produce a sodium hypochlorite solution, continuing the chlorination until no appreciable free sodium hydroxide remains in the solution, then adding sodium hydroxide to the solution, then allowing said impurities to settle out of the solution in the presence of magnesium chloride added to the solution and at a rate accelerated by the combined effects of the added magnesium chloride and the aforesaid chlorination of the solution and addition thereto of sodium hydroxide, and finally separating the solution from the settled impurities.

2,610,906
AMMONIUM SULFATE RECOVERY
Ranald G. Dunning, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
Application June 4, 1948, Serial No. 31,149
5 Claims. (Cl. 23—119)

1. The process for the recovery of ammonium p-chlorobenzene sulfonate and ammonium sulfate from factory waste acid containing p-chlorobenzene sulfonic acid and sulfuric acid, which comprises mixing one volume of said waste acid with at least an equal volume of a saturated



aqueous solution of ammonium sulfate, separating the solid ammonium p-chlorobenzene sulfonate precipitated from said mixture, neutralizing the resulting solution with ammonia, and recovering ammonium sulfate from the neutralized solution.

2,610,907

PROCESS FOR RECOVERY OF OSMIUM AS OSMIUM TETRAOXIDE

Gustav A. Stein, Plainfield, Henry C. Vogel, West Orange, and Raymond G. Valerio, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application August 1, 1950, Serial No. 177,116
5 Claims. (Cl. 23—140)

1. The process of preparing osmium tetroxide from an osmium residue containing a lower valence compound of osmium admixed with organic matter which comprises reacting together said osmium residue, chromic acid, nitric acid and sulfuric acid, said reaction being carried out by heating the reactants in aqueous solution under reflux, thereby producing a reaction mixture containing osmium tetroxide, subjecting the reaction mixture to distillation thereby distilling an azeotropic mixture of water and osmium tetroxide, and separating osmium tetroxide from the resulting distillate.

2,610,908

PROCESS OF AND APPARATUS FOR PRODUCING CAUSTIC SOLUTIONS OF HIGH CONCENTRATION

Charles Deprez, Uccle-Brussels, and Alexis Basilewsky, Bortsfort-Brussels, Belgium, assignors to Solvay & Cie, Ixelles-Brussels, Belgium, a Belgian company

Application March 5, 1947, Serial No. 732,572
In Belgium March 9, 1946
4 Claims. (Cl. 23—184)



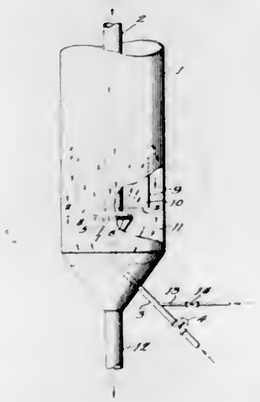
3. A process of producing alkali metal hydroxide solutions of high concentration by decomposing the corresponding alkali metal amalgams which comprises, establishing a plurality of substantially-horizontal confined reaction zones containing alkali metal hydroxide solution, the solution in each of said zones increasing in alkali metal hydroxide concentration at a first end of least concentration to a zone of highest concentration, said zones defining a confined area of counter-current flow including said zone of least concentration and a confined area of co-current flow including said zone of highest concentration, introducing water into said zone of least alkali metal hydroxide concentration at a first end of said area of counter-current flow, introducing alkali metal amalgam into a first end of said area of co-current flow, flowing said amalgam unidirectionally from said first end of said area of co-current flow to the second end of said area of co-current flow, introducing alkali metal amalgam from said second end of said area of co-current flow into the second end of said area of counter-current flow, flowing said amalgam unidirectionally from said second end to said first end of said area of counter-current flow, and flowing alkali metal hydroxide solution and vapors, including water vapor generated therein, unidirectionally from said first end to said second end of said area of counter-current flow, whereby said amalgam flows counter-currently to said solution and said vapors throughout said area of counter-current flow, transferring alkali metal hydroxide solution and vapors, including water vapor generated therein, through a confined transport zone from said second end of said area of counter-current flow to said first end of said area of co-current flow, the solution and vapors in said area of counter-current flow being otherwise isolated from said area of co-current flow, flowing alkali metal hydroxide solution and vapors, including water vapor generated therein, unidirectionally from said first end to said second end of said area of co-current flow, whereby the amalgam introduced into said first end of said area co-current flow flows co-currently to said solution and said vapors throughout said area of co-current flow, withdrawing alkali metal hydroxide solution from said zone of highest concentration at said second end of said zone of co-current flow, said alkali metal hydroxide solution and said vapors, including water vapor, being introduced from each of said zones into the next zone of higher concentration into the lower portion thereof, whereby the vapors passing to said zone of higher concentration are caused to pass through the solution in said zone and the water vapors to condense therein.

2,610,909

CATALYTIC APPARATUS

Robert K. Hunter, Oak Park, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application February 2, 1950, Serial No. 142,052
3 Claims. (Cl. 23—288)



1. Apparatus for introducing subdivided particles into a confined contacting chamber, which comprises in combination, a particle inlet conduit extending downwardly into said chamber, a fluid inlet conduit extending into said chamber and having a fluid distributing means positioned a short distance directly below the end of said particle inlet conduit, a cylindrically shaped baffle spaced from and encircling the lower end of said particle inlet conduit forming an inner fluidized contacting section and an outer particle settling section, said distributing means at the end of said fluid inlet conduit comprising a horizontal plate having a flat imperforate portion beneath the lower end of said particle inlet conduit and a plurality of orifices directed upwardly and outwardly from the periphery of said horizontal plate and fluid distributing means toward an intermediate portion of said cylindrical baffle, with said plurality of jet orifices effective in entraining particles from the accumulation thereof on said horizontal plate and carrying them in a fluidized flow upwardly through said inner fluidized contacting section prior to passing downwardly through said outer annular settling zone.

2,610,910

NEOPRENE-PHENOLIC ADHESIVE CEMENT

Andrew Farley Thomson, Highland Park, Mich., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application January 13, 1949, Serial No. 70,798
10 Claims. (Cl. 51—298)

1. A solvent type adhesive cement composition which is resistant to gelation in solution during storage, and upon application as a coating to impervious smooth metal surfaces forms a strongly adherent film of high internal strength on mere evaporation of solvent and brief ageing at normal room temperatures, said composition comprising a uniform blend of polychloroprene and a normally solid phenol-aldehyde resin, said blend being dissolved in a volatile organic solvent therefor to provide a viscous liquid adhesive composition, said phenol-aldehyde resin consisting of the alkaline catalyzed condensation product of an aldehyde of the class consisting of formaldehyde and acetaldehyde and a monohydric phenol having only two particularly reaction favorable positions in the molecule and substituted only in the para position by a side chain radical from the group consisting of alkyl and aryl hydrocarbon radicals containing at least four carbon atoms, the aldehyde being present in excess of a 1:1 molecular ratio in relation to said phenol, said phenol aldehyde resin being present to the extent by weight of more than half that of the polychloroprene but not to a greater extent than twice that of said polychloroprene; the said adhesive cement composition, upon application at ordinary room temperature as a film or coating to a smooth metal surface and attachment of a fabric sheeting thereto, will at first develop bond strength at approximately the same rate as an ordinary solvent type reclaimed rubber, limed rosin cement which has equal parts of reclaimed rubber and limed rosin, and after three days at room temperature will have developed a bond strength far greater than that of such reclaimed rubber, limed rosin cement, and of the order of twice that of coatings of said reclaimed rubber, limed rosin cement.

2,610,911

METALLURGY

Marvin J. Udy, Niagara Falls, N. Y., assignor to Guaranty Investment Corporation Limited, Montreal, Quebec, Canada, a corporation of Canada

No Drawing. Application September 19, 1945, Serial No. 617,447
4 Claims. (Cl. 75—27)

1. A reaction mixture suitable for use in treating molten cast iron which comprises (1) silicon, (2) one or more chemically combined elements of the group consisting of calcium, strontium, barium and magnesium and (3) a chemically combined nitrate radical, components of the reaction mixture being of such compositions and being present in such proportions as to be capable of reacting exothermically upon contact with molten cast iron to decompose the nitrate radical with oxidation of silicon.

2,610,912

STEEL-LIKE ALLOY CONTAINING SPHEROIDAL GRAPHITE

Keith Dwight Millis, Rahway, Albert Paul Gagnebin, Red Bank, and Norman Boden Pilling, Westfield, N. J., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 22, 1949, Serial No. 123,088. In Great Britain March 22, 1947
10 Claims. (Cl. 75—123)

1. As a new article of manufacture, a steel-like alloy containing spheroidal graphite in the as-cast condition, about 0.03% up to about 0.3% magnesium to control the occurrence of the aforesaid spheroidal graphite, about 1.2% to about 1.6% total carbon, about 0.5% to about 6% silicon, with the balance essentially iron and the iron content being at least about 85% of the alloy composition.

2,610,913

DUCTILE BISMUTH ALLOY AND A DUCTILE WIRE FORMED THEREFROM

Irving E. Aske, Muskegon, and Karl W. Fitzpatrick, North Muskegon, Mich.

No Drawing. Application March 17, 1950, Serial No. 150,346
5 Claims. (Cl. 75—134)

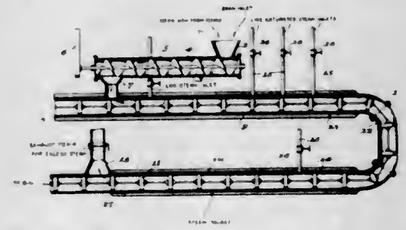
4. An alloy consisting of bismuth and nickel in approximately the proportions by weight of 99.83% to 99% bismuth, .1% to .34% nickel with trace metals constituting the balance.

2,610,914

METHOD FOR TREATING RICE BRAN AND RICE POLISH

Millard Mike Cassidy, Pasadena, and Harriet Louise Burns Nawry, Houston, Tex., assignors to American Rice Growers Cooperative Association, Lake Charles, La., a corporation of Louisiana

Application April 24, 1951, Serial No. 222,654
9 Claims. (Cl. 99—80)



1. The method of treating material consisting of rice bran and/or rice polish to retard fatty acid development of the oils present in the material and to stabilize the oils therein comprising the steps of adding an alkali metal carbonate to said material in the ratio of about 1 to 10 parts by weight of the alkali metal carbonate to 100 parts of the material, depending upon the fatty acid content of the material, directly treating the mixture with saturated live steam at a temperature of approximately 200 to 230° F. to heat and increase the moisture content thereof to increase the moisture content within a range of 8% to 15.5% and thereafter further additionally directly heating the mixture with live steam at a temperature from 230° to 260° F. to decrease the moisture content of the material to 11% to 12.5% to insure thorough penetration of all of the particles of the mixture and for a period of 5 to 15 minutes.

2,610,915

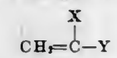
WINTERIZED GLYCERIDE OIL AND PROCESS OF PRODUCING THE SAME

Karl F. Mattil, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

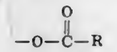
No Drawing. Application July 24, 1950, Serial No. 175,659
11 Claims. (Cl. 99—118)

1. A glyceride oil composition of improved cold test, comprising a glyceride oil having incorporated therein a small amount of an oil-soluble product to improve the cold test thereof, said product being the polymerization product of esters containing a radical selected from the group

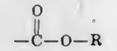
consisting of vinyl and substituted vinyl compounds according to the general formula



wherein X is selected from the group consisting of hydrogen and alkyl and aromatic hydrocarbon radicals and Y is selected from the group having the formula



and



wherein R is selected from the group consisting of a monovalent hydrocarbon radical containing more than 4 carbon atoms and oxy derivatives thereof.

2,610,916

WITHDRAWN

2,610,917

COLORING AGENT FOR PLASTIC MATERIALS

Bernard T. Hensgen, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application May 21, 1949, Serial No. 94,749

4 Claims. (Cl. 99—148)

1. A coloring unit for coloring aqueous emulsions of plastic fatty food products, said unit being adapted to color both the water and fat phases of the emulsion, comprising: a body of coloring reagent which is substantially soluble in said fat phase and a water dispersible coating containing a water-soluble coloring reagent which is substantially soluble in said water phase and is substantially insoluble in said fat phase, said coating enclosing said body as a unit and all being dispersible in said emulsion.

2,610,918

PREPARATION OF DRIED EGGS

Leo Kline and Thomas T. Sonoda, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application April 10, 1951, Serial No. 220,329

13 Claims. (Cl. 99—210)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In the process of preparing dried eggs wherein an egg liquid is subjected to a fermentation prior to drying to remove the reducing sugars normally present in the egg liquid, the improvement which comprises fermenting the egg liquid with a yeast which is incapable of producing reducing sugars from sucrose by means of invertase elaboration or other cell activities.

2,610,919

RUST INHIBITING COMPOSITION

Milton P. Kleinholz, East Chicago, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 8, 1946, Serial No. 675,443

4 Claims. (Cl. 106—14)

1. A composition adapted to inhibit the rusting of iron and steel consisting essentially of a mineral oil as its base and about 1–2% calcium mahogany sulfonate and about 0.5–1% of a material of the group consisting of alpha-hydroxy lauric acid and the product resulting upon partial self-esterification of such acid and which contains in admixture the acid, the semi-lactide esterification product of the acid, and a relatively minor proportion of the lactide esterification product of the acid.

2,610,920

FLAMEPROOFING COMPOSITION

Harry Hopkinson, Lawrenceville, N. J.

No Drawing. Application November 1, 1948, Serial No. 57,822

7 Claims. (Cl. 106—15)

3. A flameproofing composition which includes a chlorinated organic material which releases hydrochloric acid when heated, at least one metallic oxide capable of reacting with hydrochloric acid in the presence of cellulose at combustion temperatures higher than that at which the hydrochloric acid is normally liberated by the chlorinated material to form a flameproof compound, said metallic oxide being selected from the group consisting of oxides of zinc, tin, lead, magnesium, iron, manganese, molybdenum, tellurium, titanium, copper, chromium, aluminum, vanadium and tungsten, an inhibitor adapted to retard the release of hydrochloric acid from the heated chlorinated material until the temperature is reached at which said reaction takes place, selected from the group consisting of basic lead carbonate, calcium silicate, lead silicate, lead sulfate, calcium stearate, calcium salicylate, calcium ethyl aceto-acetate, lead oleate, lead naphthenate, dibasic lead salt of stearic acid, and other organo-metallic lead salts, strontium naphthenate, dibutyl tin maleate, and tetraphenyl tin, and a substantial quantity of at least one metallic salt of a weak inorganic acid selected from the group consisting of stannates, zincates, borates, silicates, molybdates, vanadates and tungstates of the metals zinc, antimony, magnesium, tin, lead and zirconium.

2,610,921

TRANSFER INK

Joseph R. Ehrlich, New York, N. Y.

No Drawing. Application April 18, 1949, Serial No. 88,240

1 Claim. (Cl. 106—23)

A transfer ink comprising a dispersed water-insoluble iron tannate pigment present in quantity sufficient to make the marking color of said ink substantially black, and at least one water-insoluble red pigment resistant to an aqueous oxidizing agent comprising ions selected from the group of hypochlorite and permanganate ions.

2,610,922

REFLEX-REFLECTOR LENS ELEMENTS

Warren R. Beck, Mahtomedi, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application March 14, 1950, Serial No. 149,653

3 Claims. (Cl. 106—54)

2. Transparent, weather-resistant, strong and tough, small glass beads or sphericles having a refractive index of about 1.64–1.74 and suitable for incorporation as reflex-reflective lens elements in painted highway center stripes, the components of the glass composition consisting essentially of the first five and at least one of the last three of

the following in the indicated weight percent as calculated from the batch:

SiO_2	15–35
Al_2O_3	8–25
TiO_2	8–25
MgO	2–15
CaO	8–24
B_2O_3	up to 15
Na_2O	up to 10
F_2	up to 5

wherein the total of SiO_2, Al_2O_3 and TiO_2 is about 40–75, the total of Al_2O_3 and TiO_2 is about 20–50, the total of Na_2O and F_2 is about 1–13, the total of B_2O_3, Na_2O and F_2 is about 5–25, the total of MgO, CaO, B_2O_3, Na_2O and F_2 is about 25–60, the ratio of Al_2O_3 to TiO_2 is about 1:3–3:1, and, where the total percent of SiO_2, Al_2O_3 and TiO_2 is about 60–75, the total of Na_2O and F_2 is at least one-twelfth of said total percent.

2,610,923

CAULKING COMPOSITION

Hugh Campbell Taylor, Flint, Mich.

No Drawing. Application April 26, 1949, Serial No. 89,810

3 Claims. (Cl. 106—189)

3. A stiff substantially uniform paste composition comprising on a weight basis about 27 per cent of finely shredded asbestos, about 14 per cent of powdered bentonite, about 10 per cent of finely powdered coquina, about 27 per cent of glycerine, and about 22 per cent of aqueous hydroxyethyl cellulose having a viscosity of from about 70 to about 100 centipoises at about 20° centigrade.

2,610,924

RESINOUS ADHESIVE COMPOSITION

Raymond R. Lamm, Philadelphia, Pa., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

No Drawing. Application May 1, 1948, Serial No. 24,680

2 Claims. (Cl. 106—240)

1. An adhesive composition consisting essentially of a brittle resinous binder comprising limed rosin, a plasticizer for said binder, a filler, and a volatile solvent for said binder, said plasticizer being the condensation product formed by condensing chlorinated paraffin wax with naphthalene and being present in the proportion of 5 to 100 parts per 100 parts of said binder, said composition being characterized by a substantially constant viscosity in the temperature range of from about 60° F. to about 115° F.

2,610,925

RUBBER RECLAIMING OIL

Fred W. Staten, Laramie, Wyo., assignor to the United States of America as represented by the Secretary of the Interior

No Drawing. Application June 14, 1950, Serial No. 168,140

5 Claims. (Cl. 106—316)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A rubber reclaiming oil comprising a mixture of di(hydroxyaryl)-sulfides in combination with a mixture of carboxylic acids, these ingredients being prepared from a distillation fraction boiling between 300° and 650° F. of a crude oil produced by the destructive distillation of oil shale by extracting said fraction with a strong alkaline solution, acidifying said alkaline extract to recover the phenolic acids and carboxylic acids present therein, and converting said phenolic acids to di(hydroxyaryl)-sulfides, said reclaiming oil containing no less than 20% and no more than 70% by weight of carboxylic acids based on the weight of said di(hydroxyaryl)-sulfides and said carboxylic acids alone.

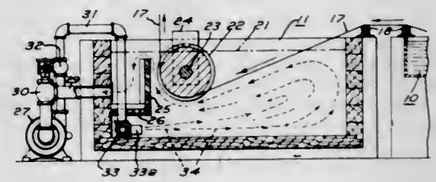
2,610,926

METHOD AND APPARATUS FOR COATING WIRE WITH LIME

Charles R. Chase, Morrisville, and George L. Bliss, Yardley, Pa., assignors to United States Steel Company, a corporation of New Jersey

Application February 6, 1948, Serial No. 6,708

7 Claims. (Cl. 117—115)



1. In a method of coating wire with lime, the steps including drawing wire over one end of a tank containing a lime-coating bath, along a downwardly sloping path beneath the surface of the bath and upwardly around a guide sheave spaced from said end and partially immersed in said bath, withdrawing liquid and the solids suspended therein by suction from the upper portion of the bath at a point beyond said sheave in the direction of wire travel, and substantially below the surface thereby maintaining said surface substantially quiescent, re-introducing the withdrawn liquid and solids on the same side of said sheave as said point of withdrawal, as a jet under pressure directed along and substantially parallel to the bottom of the tank in a direction opposite the general direction of travel of the wire, thereby inducing return flow of the liquid and suspended solids along the upper portion of the bath generally parallel to the entering wire and in the direction of travel thereof and causing the return flow of liquid and suspended solids to pass around the bottom of said sheave and generally upwardly toward the surface of the bath before reaching said point of withdrawal.

2,610,927

TREATMENT OF FIBROUS MATERIALS WITH POLYAMIDES

Robinson Percy Foulds, Manchester, England, assignor to Tootal Broadhurst Lee Company Limited, Manchester, England

No Drawing. Application July 29, 1947, Serial No. 764,575. In Great Britain March 8, 1943

Section 1, Public Law 690, August 8, 1946

Patent expires March 8, 1963

5 Claims. (Cl. 117—143)

4. The process of treating fibrous material which comprises applying to it a solution containing from one to two parts by weight of water-insoluble synthetic linear polyamide derived by condensation of a polyamine with a dibasic acid dissolved in from 25 to 27 parts by weight of 70° Tw. sulphuric acid; wringing out excess solution; washing the material in water, and neutralising free acid.

2,610,928

MINERALIZED BITUMINOUS ROOFING

Harold W. Greider, Wyoming, and George Arthur Fasold, Mount Healthy, Ohio, assignors to The Philip Carey Manufacturing Company, a corporation of Ohio

Application August 7, 1943, Serial No. 497,809
2 Claims. (Cl. 117—168)



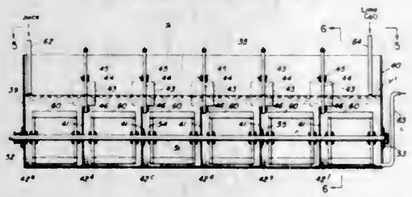
1. A roofing having high fire resistance and high blister resistance comprising sheet-like base material and carried by said sheet-like base material a waterproofing layer of thermoplastic bituminous composition, said bituminous composition containing bitumen having a softening point above 200° F. and not above 275° F. and of the range between 20% and 45% by weight of said bituminous composition, said bituminous composition containing intimately commingled and distributed uniformly throughout finely-divided solid water-insoluble heat-resistant mineral filler of the range above 55% to 80% by weight of said composition which has a preferential affinity for said bitumen as against water at 185° F., said bituminous composition having a Wagner-Bowen plasticity value at 400° F. not greater than 1500 grams, having a softening point above 300° F., having a viscosity at 170° F. greater than 4×10^7 poises, having a tensile strength at 170° F. of at least 150 gm. per sq. cm., having a per cent. elongation at 77° F. of at least 35, and having a work capacitance at 77° F. of at least 2000 gm. cm. per cu. cm., the said filler contained in said bituminous composition having a flow resistance coefficient of at least 75 when said composition carried by said sheet-like base material is exposed to flame temperature under the flow resistance test as defined herein, and said bituminous composition providing a pliable weather-resistant layer of the hot-spread coating type which is integrally bonded with said sheet-like base material and is of a thickness throughout not less than corresponding to about 20 pounds per 100 square feet throughout the extent of said layer where said layer is designed to provide blister resistance.

2,610,929

DEFECATING PROCESS AND APPARATUS

Arne Vigand Brieghel-Müller, Gentofte, Denmark, assignor to Aktieselskabet De Danske Sukkerfabrikker, Copenhagen, Denmark, a corporation of Denmark

Application August 2, 1950, Serial No. 177,156
In Denmark August 24, 1949
7 Claims. (Cl. 127—14)



1. Apparatus for continuously treating sugar juice with a defecating agent which comprises a horizontally extending tank having a raw juice inlet at one end and a treated juice outlet at the other end and adapted to hold a body of juice passing therethrough with the juice level in the tank determined by the elevation of the juice outlet, partitioning means dividing the tank into a series of treatment compartments and having flow passages whereby the compartments communicate with one another and through which a main stream of the juice passes sequentially from the first to the last compartment, agitating means for swirlingly mixing the juice in said compartments while imparting to the juice in each compartment a motion substantially transversely of the direction of the main stream with the direction of such agitation being the same in all zones, flow-splitting devices disposed between any two successive compartments and associated with respective flow passages to effect marginally splitting off a quantity of the swirling juice in each zone except the juice-feeding zone and thereby transferring such quantity carrying some of the reagent through said passage upstream into the next preceding zone there to admix with juice therein while displacing a corresponding quantity of juice downstream from said preceding zone so that the concentration of the reagent in the juice in the zones is greatest in the zone of juice emission and is least in the zone of juice feeding while the concentrations in the zones therebetween diminish from zone to zone from greatest to least, and means for adjusting said flow-splitting devices to regulate the respective quantities being split off.

2,610,930

NONCRYSTALLIZING CORN SUGAR PROCESS

James E. Cleland, Granite City, Ill., assignor to Union Starch & Refining Company, Columbus, Ind., a corporation of Indiana

No Drawing. Application April 27, 1946, Serial No. 665,646
3 Claims. (Cl. 127—30)

1. The process of making a liquid and noncrystallizing product from a solution of corn sugar or dextrose having a reducing sugar content calculated as dextrose on the dry basis of 70–100% which consists of heat treating the solution of 42 to 47° Bé. at a temperature in the range 200 to 300° F. and an acid reaction of 0.5 to 4.5 pH until the reducing power of the sugars is at least 5% lower than that of the starting solution.

2,610,931

SLURRY ADSORPTION SEPARATION AND FRACTIONATION OF SUGARS

Edna M. Montgomery, Peoria, Howard F. Conway, Creve Coeur, and Francis B. Weakley, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 6, 1950, Serial No. 172,378
10 Claims. (Cl. 127—55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

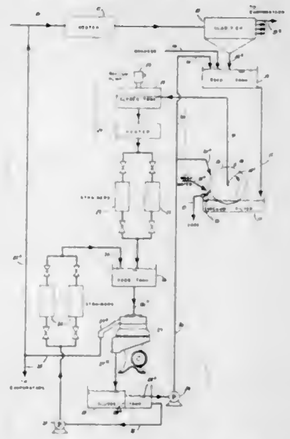
1. The process which comprises contacting an aqueous starch hydrolyzate solution containing at least 10 percent glucose and polysaccharides with an amount of active carbon at a pH of about 6.0, said amount of carbon being sufficient to adsorb said polysaccharides, maintaining said contact in the form of a slurry for a period of time sufficient to accomplish substantially complete adsorption of said polysaccharides, as indicated by the approach of the optical and chemical properties of the solution to the theoretical values for pure glucose, the ratio of activated carbon to polysaccharides being in the range of 15:1 to 30:1, no more than enough carbon being added to obtain the solution of said theoretical values, separating the carbon from the aqueous phase, water-washing the carbon free of glucose and recovering adsorbed sugar by displacement from said carbon by means of an aqueous solution of phenol.

2,610,932

CLARIFICATION OF SUGAR CANE JUICE

Keith H. Eakin, Park Forest, Ill., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey

Application July 27, 1950, Serial No. 176,132
6 Claims. (Cl. 127—55)



1. In the clarification of sugar cane juice containing suspended heavy solids, by feeding the juice to a gravity-settling zone where the solids settle to the bottom as a mud, separately discharging the clarified juice and the mud from the upper and lower regions, respectively, of said zone, and subjecting the mud from said zone to a filtering operation to recover juice therefrom as a filtrate, leaving a filter cake of mud, the improvement which comprises straining said filtrate, feeding the strained filtrate at a temperature of at least 180° F. to a locus of centrifugal force and there separating it centrifugally into a clarified juice component and a sludge component, separately discharging said components from said locus, and recycling at least part of the sludge component from said locus to the filtering operation to recover sugar from the sludge.

2,610,933

BRAZING FLUX

Louis E. Stark, Grand Island, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application November 8, 1949, Serial No. 126,233
4 Claims. (Cl. 148—26)

2. A welding and brazing flux substantially free of alkali metal compounds and containing 1% to 20% of zinc borate, the remainder boric acid and incidental impurities.

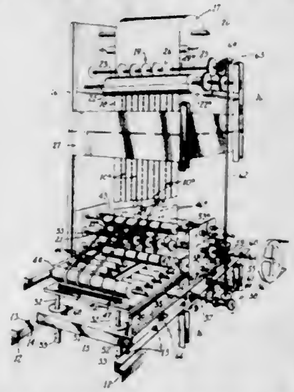
2,610,934

METHOD OF AND APPARATUS FOR MAKING HONEYCOMB MATERIAL

Roger C. Steele, Oakland, Calif., assignor to California Reinforced Plastics Company, Berkeley, Calif.

Application November 22, 1948, Serial No. 61,352
13 Claims. (Cl. 154—1.8)

7. In a machine for making honeycomb out of an elongated sheet of flexible material the combination comprising first glue applying means to apply spaced substantially parallel glue lines longitudinally along one side of said sheet, second glue applying means to apply spaced substantially parallel glue lines to the opposite side of said sheet between said first named glue lines and substantially parallel thereto, a lapping mechanism comprising a reciprocating member reciprocable in strokes of equal length to lap said material back and forth over itself in successive laps of equal length to build up a stack



of superposed layers of said material, and compression members establishing pressure contact surfaces at least coextensive in length to the length of stroke of said reciprocating member and disposed parallel to the path of movement of said reciprocating member to maintain substantially continuous uniform pressure on said stack substantially throughout the entire length of said stack.

2,610,935

CREPED PAPER PRODUCT AND PROCESS

William Wallace Rowe, Cincinnati, Ohio, assignor to Cincinnati Industries, Inc., Lockland, Ohio, a corporation of Ohio

Application February 24, 1949, Serial No. 78,197
18 Claims. (Cl. 154—33.05)



1. A process of creping paper which comprises treating a paper web with a water dispersion of thermoplastic adhesive, causing the adhesive to come out of the dispersed phase and activating the said adhesive for creping purposes by applying heat and pressure thereto to develop sufficient tackiness to bind the web to a creping surface, the said dispersion being applied to the paper web while the web is in a substantially dry and absorptive condition, in which process the breaking of the dispersion is produced by the absorption of the water vehicle thereof by the paper web and in which the said water vehicle serves to soften the paper web, at least at that surface against which the said adhesive is applied.

2,610,936

REINFORCED PAPER ARTICLE

Arthur E. Carlson, Hingham, Mass.

Application August 10, 1949, Serial No. 109,482
17 Claims. (Cl. 154—53.5)

14. A stay tape comprising a single paper web, a plurality of elongate reenforcing elements overlying one surface of said web and extending transversely of said web in spaced relation, each of said reenforcing elements consisting essentially

of a multiplicity of fine substantially continuous and substantially untwisted organic synthetic filaments arranged in close side by side and overlying relation to form a thin band, adhesive material substantially saturating each said band and securing said filaments therein to each other and to said web surface in compact form minimizing



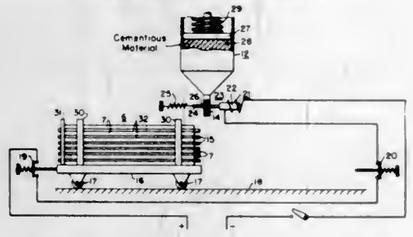
the projection of each said band above the plane of said surface, each said band being of substantially greater width than the maximum thickness thereof to provide a correspondingly wide area for intimate adhesive contact between said adhesive-saturated band and said web surface, and said web also having a coating of adhesive substantially covering one surface thereof.

2,610,937

PROCESS OF MANUFACTURING SPACED PLATE ARC EXTINGUISHERS

Russell E. Frink and Robert C. Dickinson, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 23, 1949, Serial No. 77,793
2 Claims. (Cl. 154—102)



1. The method of manufacturing spaced stacked plate arc extinguishers having venting passages between the plates comprising setting a rigid plate into position, extruding a single ribbon of cement along each of two opposite edges of one side only of the rigid plate, placing another rigid plate over the first said rigid plate directly on said ribbons of cement and spaced a substantial distance from the latter by the aforesaid ribbons of cement to form a venting passage therebetween, extruding a single ribbon of cement along each of two opposite edges of the upper side only of the second said rigid plate, repeating the aforesaid operations until the desired number of spaced rigid plates is utilized in the stack, and hardening the cement to form spacing means between the rigid plates of the stack.

2,610,938

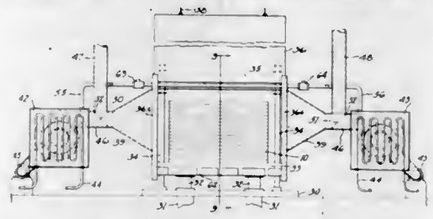
MANUFACTURE OF HOLLOW PANELS

Michel Pasquier, Portland, Oreg., assignor to M and M Wood Working Company, Portland, Oreg., a corporation of Oregon

Application February 1, 1947, Serial No. 726,245
16 Claims. (Cl. 154—118)

2. The method of heating interior glue joints in hollow panels to set the glue without excessively heating the outside faces of the panels, comprising pressing the panels between flat unheated surfaces, and introducing a heating fluid interiorly of the panels.

15. Apparatus for gluing hollow rectangular panels having apertured ends, comprising a platen press for pressing a stack of said panels arranged with the apertured ends of the panels at two opposite ends of the stack, hoods defining chambers communicating with said opposite ends of the stack, chambers communicating with the



opposite sides of the stack, partitions at the four corners of the stack to separate said end and side chambers, means for passing a heating fluid alternately in opposite directions through said hoods and the interiors of the panels, and means in said side chambers for exteriorly heating the opposite sides of said stack.

2,610,939

METHOD OF LAMINATING GLASSINE PAPER

Jacob I. Fisher and George C. Borden, Jr., Easton, Pa., assignors to Riegel Paper Corporation, New York, N. Y., a corporation of New Jersey

No Drawing. Application December 26, 1946, Serial No. 718,629
8 Claims. (Cl. 154—138)

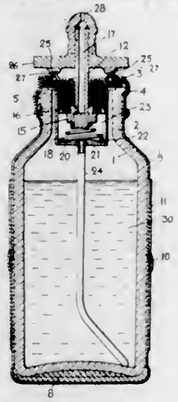
4. The method of laminating glassine paper to other sheet material which consists in applying as a laminating material a hot melt made up of the following materials in approximately the following proportions: amorphous petroleum wax about 76 to 83%, polymerized rosin about 12 to 19%, liquid polybutene plasticizer about 2.5 to 3% an isobutylene-conjugated diolefin copolymer containing a small amount of chemical unsaturation about 2 to 2.5%.

2,610,940

LOW PRESSURE PROPELLED INSECTICIDAL AEROSOL COMPOSITION

James L. Endicott, New York, N. Y., assignor to Gaspray Corp., New York, N. Y., a corporation of New York

Application February 23, 1946, Serial No. 649,700
1 Claim. (Cl. 167—39)



A self-propellant insecticidal composition comprising a toxic agent and an oily medium and

a mixture of dichlorodifluoromethane and trichloromonofluoromethane having a combined vapor pressure of less than 24 pounds per square inch gauge.

2,610,941

HAIR-DYE COMPOSITIONS

Eugène Schueller, Paris, France, assignor to Societe L'Oreal, Paris, France, a corporation of France

No Drawing. Application January 16, 1948, Serial No. 2,810. In France December 14, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 14, 1966
4 Claims. (Cl. 167—88)

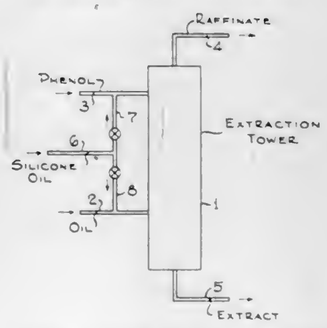
1. A hair dye cream composition comprising an oxidation dye base selected from the class consisting of phenylamines, phenylenediamines, phenols and aminophenols and an organic sulfhydryl compound to retard oxidation and deterioration of the cream during storage, said cream being free from ionizable inorganic salts.

2,610,942

EXTRACTION PROCESS

Chester L. Read, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 31, 1948, Serial No. 18,282
9 Claims. (Cl. 196—14.42)



3. Improved process for the segregation of a petroleum oil into its more aromatic constituents and into its more paraffinic constituents, which comprises contacting feed oil in a treating zone with a liquid solvent, having a preferential selectivity for the more aromatic type constituents under conditions to secure phase separation, introducing into said treating zone about 0.0001% to 0.03% by volume of a silicone polymer oil, removing a solvent extract phase and a raffinate phase from said treating zone and recovering the oil.

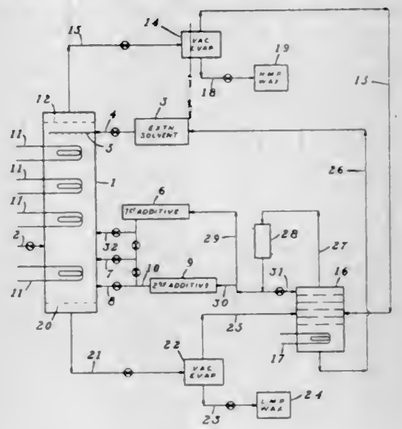
2,610,943

SOLVENT FRACTIONATION OF WAX-CONTAINING MIXTURES

Edgar W. Clarke, Laurel Springs, N. J., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Original application September 16, 1947, Serial No. 774,230. Divided and this application November 5, 1949, Serial No. 125,728
3 Claims. (Cl. 196—17)

1. The method of separating a wax-containing mixture into fractions of higher and lower melting point, which comprises countercurrently contacting said wax-containing mixture in an extraction zone with an extraction solvent and solvent additives at a temperature such that two immiscible liquid phases are formed, one comprising the higher melting wax fraction containing solvent and additives, and the other comprising solvent and additives and the lower melting wax fraction, separating the phases from one another, and removing the solvent and additives from each, the solvent being introduced into the extraction zone near the point of withdrawal of the higher melting wax fraction, the first additive being introduced adjacent the point of introduction of the wax-containing mixture, and the second additive being introduced between the point of introduction of the first additive and the point of withdrawal of the lower melting wax fraction, the solvent comprising 3.2 to 3.8 volumes of phenol per volume of wax-containing mixture, the first additive comprising 0.3 to 0.5 volume of furfural per volume of wax-containing mixture, and the second additive comprising 0.3 to 0.5 volume of furfural per volume of wax-containing mixture.

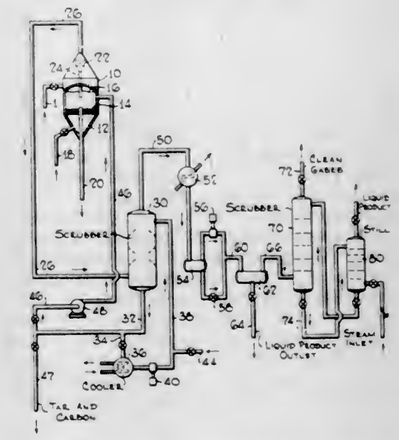


2,610,944

TREATMENT OF CARBONACEOUS SOLIDS

Charles E. Hemminger, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application January 23, 1951, Serial No. 207,372
5 Claims. (Cl. 202—24)



1. The method of carbonizing a bituminous material of high volatility and low ash content

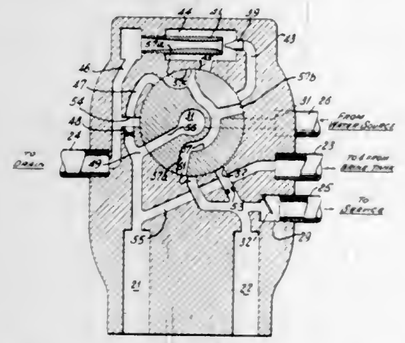
which comprises feeding said material in subdivided form to a dense turbulent fluidized bed of carbonaceous solids maintained in a carbonization zone, passing a gas upwardly through said bed at carbonization temperatures of about 800°–1600° F. and elevated pressures of about 5–100 p. s. i. g. conducive to the cracking conversion of carbonization products of undesirably high boiling point into gases, light oils and coke, withdrawing volatile carbonization products containing entrained carbonaceous solids fines upwardly from said zone, scrubbing said volatile products in a scrubbing zone at a temperature above the boiling point of the highest boiling volatile carbonization products desired for recovery with a hydrocarbonaceous liquid comprising substantial proportions of condensed carbonization products boiling above about 700° F. to remove entrained solids fines from said volatile products, recovering volatile products free of entrained solids from said scrubbing zone, and recycling used scrubbing liquid containing said entrained solids in suspension to said carbonization zone whereby said scrubbed fines are impregnated by said scrubbing liquid and agglomerated in the course of said recycle procedure to form particles of substantially greater size than that of said entrained fines, recycled scrubbing liquid being cracked to form lighter products in said carbonization zone.

2,610,945

WATER SOFTENING APPARATUS

Howard Fredrick Purcell, Dayton, and Earl K. Butler, Xenia, Ohio, assignors to The Dayton Pump & Manufacturing Company, Dayton, Ohio, a corporation of Ohio

Application May 15, 1950, Serial No. 161,938
5 Claims. (Cl. 210—24)



1. In a water softening apparatus; a mineral tank having first and second openings in the top communicating with the top and bottom of the tank, respectively, a valve body mounted on top of the tank having first and second chambers communicating with said first and second openings, respectively, a jet pump in said body, said body having a valve bore, passages in said valve body providing restricted and unrestricted communication of said bore with said first and second chambers, respectively, other passages in said valve body communicating said bore with the inlet of said jet pump, with the suction zone of said jet pump, and with exhaust, a valve member in said bore having a raw water supply port on its periphery and also having a channel extending therethrough, said valve member having a normal position where said supply port communicates with said first chamber through the unrestricted passage leading thereto and said channel is closed, a second position where the supply port communicates with the second chamber through the restricted passage leading thereto and said channel connects said first chamber with exhaust, a third position where said supply port communicates with the passage leading to the inlet of the jet pump and said channel interconnects the passages leading to said second chamber and to the suction zone of said jet pump, and another position where said supply port communicates with said first chamber through the restricted passage and said channel connects the passages leading to said second chamber and exhaust, said valve member being movable into its several adjusted positions and back to its normal position by indexing movements in one and the same direction, a service conduit connected with said second chamber, and a brine supply conduit connected to said first chamber.

2,610,946

LITHIUM SOAP GREASE CONTAINING BASIC ALKALINE EARTH METAL SULFONATE

George W. Eckert, Glenham, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application February 8, 1951, Serial No. 210,096
12 Claims. (Cl. 252—33.2)

1. A lubricating grease composition comprising as the essential constituents an oleaginous liquid lubricating base as the major constituent, about 10–30% by weight of a lithium soap of a saturated soap-forming fatty material, and from 0.25 to 3% by weight of an oil-soluble basic alkaline earth metal salt of a sulfonated hydrocarbon wherein the weight ratio of alkaline earth metal to sulfur content is from 1.1 to 2 times that represented by the normal salt $M(SO_3R)_2$, where M is the alkaline earth metal and R is the hydrocarbon residue, said basic salt being in sufficient proportion to enable said grease composition to pass the copper corrosion test of U. S. Army specification 2–134.

2,610,947

LUBRICATING GREASE AND PROCESS OF MANUFACTURE

Arnold J. Morway, Clark Township, Union County, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 24, 1950, Serial No. 170,247
14 Claims. (Cl. 252—41)

1. The process of making a stable high temperature lubricating grease which comprises combining 2 to 20 parts by weight of fatty acid of the C_{12} to C_{24} range with 20 to 50 parts of an aromatic type mineral base lubricating oil of relatively high viscosity, adding 1 to 15 parts of organic material having a molecular weight below about 160 selected from the group consisting of carboxylic acids and aldehydes undergoing the Cannizzaro reaction and a sufficient amount of a metal base selected from the group consisting of alkali metal and alkaline earth metal bases to form a soap-salt complex with said fatty acid and said organic material, heating the aforesaid ingredients with stirring to a soap-cooking temperature for a period of time to substantially complete said soap-salt reaction, and thereafter gradually adding and blending in 25 to 50 parts of a relatively low viscosity and low volatility mineral lubricating oil of paraffinic type while applying heat, the amount of said paraffinic-type oil being not substantially smaller than that of said aromatic-type oil and substantially maintaining a cooking temperature between about 280° F. and 450° F. to form a grease of relatively high viscosity index and relatively low volatility.

2,610,948

LUBRICATING COMPOSITIONS

Arnold J. Morway, Clark Township, Union County, and William C. Howell, Jr., Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 23, 1950, Serial No. 151,548
10 Claims. (Cl. 252—56)

1. A lubricating composition which comprises a synthetic lubricating oil having a viscosity at 210° F. within the range of from about 30 to about 60 Saybolt Universal seconds and a flash point above about 250° F. having combined therein from about 0.5% to 20.0% by weight of a viscosity index improver selected from the class consisting of polymers of acrylate esters, polymers of methacrylate esters, polymers of isobutylene and copolymers of styrene and isobutylene, said synthetic lubricating oil being a residue remaining after distillation at a temperature within a range of about 542° F. to about 740° F. of the mixture of products obtained by subjecting monoolefins to the action of carbon monoxide and hydrogen in the Oxo process.

2,610,949

HYDRAULIC APPARATUS

Frank J. Sowa, Cranford, N. J.

No Drawing. Application September 13, 1948, Serial No. 49,125
3 Claims. (Cl. 252—78)

1. A hydraulic apparatus comprising, in combination, a movable member and a liquid medium arranged in contact with said member, said liquid medium consisting essentially of at least one compound having the generic formula



in which R, R′ and R″ are substituents selected from the group consisting of alkyl radicals having from four to eighteen carbon atoms, cycloalkyl radicals having from five to 8 carbon atoms, aryl hydrocarbon radicals having from six to 8 carbon atoms, the benzyl radical and the phenylethyl radical.

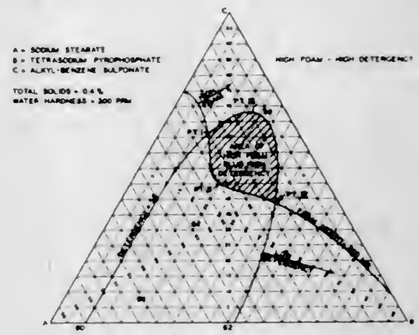
2,610,950

DETERGENT COMPOSITION

John J. Morrisroe, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application July 23, 1947, Serial No. 762,932
2 Claims. (Cl. 252—109)

1. A detergent composition having a pH from above about 7.0 to about 10.0, capable of producing foam heights of at least 200 mm. when dissolved in hard water at 1.0° F. (determined by Ross Miles method) and consisting of a major proportion of inorganic alkali metal salts and a minor proportion of organic detergents, the ratio of said inorganic salts to said organic detergents ranging from above 1.0 to less than 2.1, said inorganic alkali metal salts comprising from about 14 to about 44% by weight of tetrasodium pyrophosphate and from about 23 to about 41% by weight of sodium sulfate, and said organic detergents comprising from about 6 to about 25% by weight of a water-soluble sodium soap of a higher fatty acid and from about 15 to about 28% by weight



of sodium alkyl benzene sulfonate containing from 12 to 16 carbon atoms in the alkyl chain, the sum of the four constituents adding up to 100% by weight in all combinations.

2,610,951

METHOD OF HEAT-TREATING A SWELLABLE BENTONITE TO INCREASE ITS THICKENING POWER

Francis E. Hutchins, East Norwalk, and Cleo J. Golding, South Norwalk, Conn., assignors to R. T. Vanderbilt Co., Inc.

No Drawing. Application August 17, 1950, Serial No. 180,077
3 Claims. (Cl. 252—317)

1. A process for increasing the thickening power of a swellable bentonite when incorporated into aqueous dispersions, the said method comprising maintaining the bentonite in flake or powder form at a temperature of at least about 40° C. and not more than about 100° C. for a period of at least one week while the bentonite contains absorbed water.

2,610,952

RECOVERY OF LIQUID FUEL FROM SOLIDIFIED FUEL

Karl A. Fischer, Washington, D. C., and Otto F. Hecht, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Application June 14, 1949, Serial No. 99,106
15 Claims. (Cl. 252—319)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of recovering liquid hydrocarbon from a solidified gel structure essentially comprising a dispersed liquid hydrocarbon phase and a water-insoluble calcium complex as the continuous phase, comprising reacting said continuous phase with a solution of a salt whose positive radical is a member of the group consisting of alkali metal and ammonium and whose negative radical is a member of the group consisting of hexabimetaphosphate, nitrilo-triacetate and hydrazino-tetra-acetate, whereby said calcium complex is changed into a water-soluble and substantially hydrocarbon-insoluble complex; at least partly dissolving said water-soluble complex, whereby said liquid hydrocarbon phase is released; and separating said released liquid hydrocarbon from the residue.

2,610,953

POLYVINYL PHOSPHORIC ACID ESTERS OF CELLULOSE AND PROCESSES FOR MAKING THE SAME

George C. Daul and John D. Reid, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application April 25, 1950, Serial No. 158,054
9 Claims. (Cl. 260—17.4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. A process for preparing a polyvinyl phosphoric acid ester of cellulose, having ion-exchange properties, which comprises reacting by heating an aqueous solution of a compound of the group consisting of polyvinyl phosphoric acid, being an orthophosphoric acid ester of polyvinyl alcohol, which ester has free phosphoric acid groups, and its ammonium salt, with cellulose, at a temperature and for a time sufficient to cause said reaction but not so high or so long as to cause substantial charring, at a temperature in the range 130° C. to 160° C. for about 10 to 30 minutes, thereafter coating said reaction product with an aqueous solution of a substance taken from the said group and heating for a time sufficient to polymerize said coating substance.

2,610,954

OXIDIZED ALKALI LIGNIN AS A RUBBER REINFORCING AGENT

Rudolf A. V. Raff and George H. Tomlinson, Jr., Cornwall, Ontario, Canada, assignors to Howard Smith Paper Mills Limited, Montreal, Quebec, Canada

No Drawing. Application February 27, 1948, Serial No. 11,853
4 Claims. (Cl. 260—17.5)

1. As a new article of manufacture, a reinforced rubber product consisting of butadiene-styrene-copolymer latex having incorporated therein a reinforcing agent consisting of oxidized alkali lignin having a melting point above 240° C. and derived from plant material selected from the group consisting of aspen and coniferous plants.

2,610,955

DERIVATIVES OF CERTAIN OXYALKYLATED PHENOL-ALDEHYDE RESINS USEFUL IN COATING COMPOSITIONS

Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, a corporation of Delaware

No Drawing. Application August 2, 1948, Serial No. 42,138
19 Claims. (Cl. 260—19)

1. An esterification product of (1) an oxyalkylated C_4- to C_{18}-hydrocarbon-substituted difunctional monocyclic monohydric phenol—C_1- to C_8-aldehyde resin in which the C_4- to C_{18}-substitutent is in one of the positions, ortho and para, of the phenol and in which the aldehyde is one which has but one functional group reactive with said phenol in which the ratio of oxyalkylene groups to phenolic nuclei is from less than 2:1 to about 0.5:1, and the alkylene radicals of the oxyalkylene groups are those of alpha, beta-alkylene oxides and are selected from the class consisting of ethylene, propylene, butylene, hydroxypropylene and hydroxybutylene radicals, and the oxyalkylene groups are linked to the phenolic nuclei at the 1-position, and (2) the fatty acids of an oil of the class consisting of drying and semi-drying oils in amount at least 20% based stoichiometrically on the total hydroxyl content of the oxyalkylated resin; with the proviso that at least 50% stoichiometrically of the total hydroxyl content of the oxyalkylated resin is esterified by a material of the class consisting of such fatty acids and polycarboxy acids, with the proviso that the polycarboxy acid contains only oxygen, hydrogen and carbon and in amount does not exceed 70% based stoichiometrically on the total hydroxyl content of the oxyalkylated resin.

2,610,956

METHOD OF MIXING POLYETHYLENE WITH ASPHALT BITUMENS

Jan Cornelis Derksen and Frans Marie Jacobs, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

No Drawing. Application December 8, 1948, Serial No. 64,261. In the Netherlands January 9, 1948
1 Claim. (Cl. 260—28.5)

A method of homogeneously mixing an asphalt bitumen having a softening point exceeding 75° C. as measured by the ring and ball method with polyethylene to reduce the brittleness of the asphalt bitumen which comprises the steps of mixing the polyethylene with an asphalt bitumen having a melting point below 60° C., as measured by the ring and ball method, melting the mixture of polyethylene and the asphalt bitumen of low melting point, and adding the mixture of polyethylene and asphalt bitumen of low melting point while in a molten state to the asphalt bitumen of higher melting point.

2,610,957

INTERBONDED FIBROUS GLASS

Robert Steinman and Harry C. Courtright, Newark, Ohio, assignors to Owens-Corning Fiberglas Corporation, Toledo, Ohio, a corporation of Delaware

No Drawing. Application January 9, 1947, Serial No. 721,150
11 Claims. (Cl. 260—38)

1. A fabricated body of glass fibers bonded with the reaction product at elevated temperatures of an acid salt formed of aluminum and an excess of phosphoric acid with an inorganic basic substance characterized by inactivity at room temperature but reactive with the acid salt on the glass fiber surfaces at elevated temperatures to form a new reaction product, and organic resinous materials impregnating the bonded body of glass fibers.

2,610,958

THIXOTROPIC COMPOSITIONS

Birger W. Nordlander, Schenectady, and John A. Loritsch, Scotia, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application December 31, 1949, Serial No. 136,411
8 Claims. (Cl. 260—40)

1. A thixotropic composition comprising (*a*) a polymerizable fluid comprising a liquid unsaturated alkyd resin obtained by the esterification of a mixture of ingredients comprising a polyhydric alcohol and an alpha unsaturated alpha,beta polycarboxylic acid and (*b*) a moisture-containing filler comprising a metallic oxide of the group consisting of Fe_2O_3 having a moisture content of at least 0.3 percent, Cr_2O_3 having a moisture content of at least 0.3 percent, ZnO having a moisture content of at least 0.1 percent, and TiO_2 having a moisture content of at least 0.2 percent, the said filler comprising from 40 to 60 percent, by weight, of the total weight of the latter and the polymerizable fluid.

2,610,959

THIXOTROPIC COMPOSITIONS

Birger W. Nordlander, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 31, 1949, Serial No. 136,415
15 Claims. (Cl. 260—40)

1. A thixotropic composition comprising a polymerizable fluid comprising a liquid unsaturated alkyd resin obtained by the esterification of a mixture of ingredients comprising a polyhydric alcohol and an alpha unsaturated alpha,beta polycarboxylic acid and a filler comprising silica aerogel, the silica aerogel comprising from 2.56 to 11 percent, by weight, based on the weight of the polymerizable fluid.

2,610,960

THIXOTROPIC COMPOSITIONS

Birger W. Nordlander, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 31, 1949, Serial No. 136,416
5 Claims. (Cl. 260—40)

1. A thixotropic composition comprising a polymerizable fluid comprising a liquid unsaturated alkyd resin obtained by the esterification of a mixture of ingredients comprising a polyhydric alcohol and an alpha unsaturated alpha, beta polycarboxylic acid and a filler comprising expanded, powdered vermiculite, the latter material comprising from 20 to 30%, by weight, based on the weight of the thixotropic composition.

2,610,961

STABILIZATION OF THIXOTROPIC COMPOSITIONS COMPRISING POLYESTERS WITH QUINONE

Robert E. Burnett, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application December 31, 1949, Serial No. 136,414
6 Claims. (Cl. 260—45.4)

1. A thixotropic composition comprising a t-butyl catechol-containing unsaturated alkyd resin obtained by effecting reaction between a dihydric alcohol and an alpha unsaturated alpha beta polycarboxylic acid, together with a polyallyl ester of a dicarboxylic acid, a filler, quinone and a polymerization initiator selected from the class consisting of 2,2 bis (t-butyl peroxy) butane; t-butyl perbenzoate; 1,3-dimethyl cyclopentane hydroperoxide - 1; di - t - butyl diperphthalate; t-amyl hydroperoxide and 2-phenyl 2-hydroperoxide propane.

2,610,962

STYRENE COPOLYMER MIXTURES

William H. Smyers, Westfield, and David W. Young, Roselle, N. J., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 3, 1946, Serial No. 713,810
6 Claims. (Cl. 260—45.5)

1. Process which comprises dissolving in 70 to 95 parts by weight of styrene, 5 to 30 parts by weight of high molecular weight styrene-isobutylene copolymer having 60 to 70% combined styrene and an intrinsic viscosity of 0.6 to 0.95, adding a polymerization-promoting amount of benzoyl peroxide, and polymerizing said monomeric styrene in situ at 20 to 125° C.

2,610,963

FIBER-FORMING COPOLYMERS OF 1,3-BUTADIENES WITH DIALKYL METHYLENEMALONATES

Kenneth W. Doak, Nutley, N. J., and Kenneth E. Wilzbach, Chicago, Ill., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 14, 1949, Serial No. 87,553
21 Claims. (Cl. 260—78.5)

1. A fiber-forming copolymer of (A) a 1,3-butadiene of the formula $CH_2{=}CR{-}CH{=}CH_2$, wherein R is selected from the group consisting of hydrogen, chlorine, and methyl, with (B) a diester of methylenemalonic acid with an alcohol selected from the group consisting of alkanols and haloalkanols wherein the alkyl and haloalkyl groups have from 1 to 4 carbon atoms each, the molar ratio of (A) to (B) combined in the copolymer being in the range from 1.4:1 to 1:1.7, and (A) and (B) being the sole polymerizable monomers.

2,610,964

COPOLYMERIZATION OF 1,3-BUTADIENES WITH DIALKYL METHYLENEMALONATES

Roswell H. Ewart, Bloomfield, and Wendell V. Smith, Nutley, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 14, 1949, Serial No. 87,568
9 Claims. (Cl. 260—78.5)

1. The process of preparing a fiber-forming, petroleum-oil-insoluble copolymer which comprises copolymerizing in aqueous emulsion a mixture of (A) from one to two 1,3-butadienes of the formula $CH_2{=}CR{-}CH{=}CH_2$, wherein R is selected from the group consisting of hydrogen, chlorine and methyl, (B) from one to two diesters of methylenemalonic acid with an alcohol selected from the group consisting of alkanols and haloalkanols wherein the alkyl and haloalkyl groups have from 1 to 4 carbon atoms, the molar ratio of (A) to (B) being within the range from 1:4 to 4:1, an acid-stable emulsifying agent, and 0.0001 to 1% of a multivalent metal salt activator selected from the group consisting of iron salts and cobalt salts, at a temperature of −50 to +30° C., said percentages being based on the combined weights of the monomeric materials and (A) and (B) being the sole polymerizable monomers.

2,610,965

HOMOGENEOUS POLYMERIZATION OF VINYLIDENE COMPOUNDS USING A HYDROPEROXIDE CATALYST AND A BASIC NITROGEN COMPOUND

Edwin J. Vandenberg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 24, 1948, Serial No. 67,247
20 Claims. (Cl. 260—80)

1. The process which comprises homogeneously polymerizing a monomeric compound containing the $CH_2{=}C<$ group, and which is capable of

being polymerized by a peroxide catalyst, in the presence of α,α-dimethylbenzyl hydroperoxide, an ionizable organic solvent-soluble ferric compound, an α-hydroxycarbonyl compound, and ammonia.

2,610,966

PROCESS FOR TREATING TALL OIL WITH ALKYLENE OXIDES

Vito Esposito, Haddon Heights, N. J., assignor to R. M. Hollingshead Corporation, Camden, N. J., a corporation of New Jersey

No Drawing. Application October 17, 1949, Serial No. 121,900
9 Claims. (Cl. 260—97.5)

1. In a process for preparing an improved product from tall oil the steps comprising removing sterol and other unsaponifiable material from tall oil, heating the purified tall oil to a temperature in the range between 350° F. to 450° F., gradually adding an alkylene oxide to said purified tall oil while maintaining the temperature in said range and while maintaining the pressure in the range between 2000 pounds per square inch and 2400 pounds per square inch, increasing the temperature stepwise to the range between 550° F. to 650° F. and increasing the pressure stepwise to the range between 2800 pounds per square inch and 3200 pounds per square inch, and adding additional alkylene oxide.

2,610,967

PRODUCTION OF ORGANO-THIYL COMPOUNDS

Morton Kleiman, Chicago, Ill., assignor to Velsicol Corporation, Chicago, Ill., a corporation of Illinois

No Drawing. Application December 20, 1946, Serial No. 717,598
13 Claims. (Cl. 260—247.1)

1. The method of synthesizing organic disulfides which comprises subjecting reactants containing different organo-thiyl groups selected from the group consisting of (*a*) a mixture of organic disulfides, (*b*) a mixture of an organic disulfide and a mercaptan, and (*c*) an unsymmetrical organic disulfide—the organo-thiyl groups of said reactants being in combination different from that of the reaction products—to a redistribution of their organo-thiyl groups by thermally reacting said reactants at a temperature of from 125° C. to 300° C.

2,610,968

PRODUCTION OF ORGANO-THIYL COMPOUNDS

Morton Kleiman, Chicago, Ill., assignor to Velsicol Corporation, Chicago, Ill., a corporation of Illinois

No Drawing. Application December 20, 1946, Serial No. 717,597
11 Claims. (Cl. 260—290)

1. The method of synthesizing organic disulfides which comprises subjecting at a temperature of from about 50° C. to about 225° C., reactants containing different organo-thiyl groups selected from the group consisting of (*a*) a mixture of organic disulfides, (*b*) a mixture of an organic disulfide and a mercaptan, and (*c*) an unsymmetrical organic disulfide—the organo-thiyl groups of said reactants being in combination different from that of the reaction products—to a redistribution of their organo-thiyl groups by reacting said reactants in the presence of a catalyst chosen from the group consisting of an organic peroxide phenyl disulfides bis-(thiyl-alpha-naphthoyl) disulfide, acetyl disulfide, pentaphenyl ethane and bixanthyl in the amount of from about .05 to about 6 mol per cent based on a reactant.

2,610,969

PRODUCTION OF DIARYL PYRAZOLINES

John David Kendall and George Frank Duffin, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company

No Drawing. Application May 29, 1950, Serial No. 165,117. In Great Britain June 3, 1949
3 Claims. (Cl. 260—310)

1. Process for the production of 1:3-diaryl pyrazolines which comprises reacting in a basic medium a 1-aryl pyrazoline wherein the 3-position is unsubstituted, with a diazonium salt of a primary arylamine.

2,610,970

THERMAL PROCESS FOR BETA CONIDENDRIN MANUFACTURE

William M. Hearon, Camas, Wash., and Viron V. Jones, Hyattsville, Md., assignors to Crown Zellerbach Corporation, Camas, Wash., a corporation of Nevada

Application September 16, 1950, Serial No. 185,244
8 Claims. (Cl. 260—344.6)

1. The process for producing beta conidendrin which comprises heating impure alpha conidendrin to a temperature at least about 5° C. above its melting point but below its decomposition temperature and maintaining it at said temperature until its inversion to the beta isomer is substantially complete.

2,610,971

PREPARATION OF ALPHA-AMINO ANTHRAQUINONE

Justin A. McSheehy, Somerville, and William A. Raimond, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 25, 1949, Serial No. 78,466
6 Claims. (Cl. 260—382)

1. Process for the preparation of alpha-aminoanthraquinone from an alpha-anthraquinone monosulfonate which comprises reacting said alpha-anthraquinone monosulfonate with aqueous ammonia and an oxidizing agent to form alpha-aminoanthraquinone, said aqueous ammonia being of 3% to 8% strength by volume, said reaction being conducted at 150°–185° C. with agitation, and said oxidizing agent being selected from the group consisting of nitrobenzene sodium and potassium sulfonates.

2,610,972

SYNTHESIS OF ORGANIC PEROXIDES

Tod W. Campbell, Orinda, and Galvin M. Coppinger, El Cerrito, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application August 24, 1951, Serial No. 243,571
11 Claims. (Cl. 260—396)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for preparing an organic peroxide which comprises reacting, at a temperature from about 60° to about 100° C., an organic hydroperoxide with a 2,4,6-trialkyl phenol.

2,610,973

STABILIZATION OF GLYCERIDE OILS

Cyril D. Evans, Arthur W. Schwab, and John C. Cowan, Peoria, Ill., assignors to United States of America as represented by the Secretary of Agriculture

No Drawing. Application June 9, 1950, Serial No. 167,244
4 Claims. (Cl. 260—398.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A new composition of matter, a glyceride oil and a stabilizing amount of phytic acid.

2,610,974

CHEMICAL MANUFACTURE

John Walter Nelson, Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 20, 1950, Serial No. 157,177
4 Claims. (Cl. 260—413)

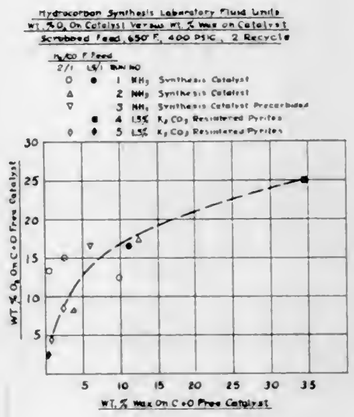
1. As a new composition of matter, a mixture of high molecular weight wax acids produced by substantially complete oxidation of microcrystalline wax containing 34 to 55 carbon atoms per molecule which is characterized by extreme water insolubility and by a saponification number less than about 200 and which predominates in monocarboxylic acids having an apparent chain length exceeding eighteen carbon atoms per molecule.

2,610,975

PROCESS FOR THE SYNTHESIS OF HYDROCARBONS FROM CARBON MONOXIDE AND HYDROGEN WITH AN IRON TYPE CATALYST

John J. Owen, Baton Rouge, and Simpson D. Sumerford, East Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 12, 1948, Serial No. 26,538
4 Claims. (Cl. 260—449.6)



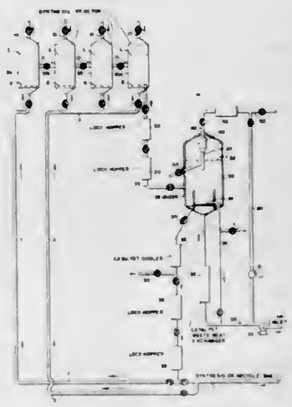
1. The process of increasing the content of high molecular weight hydrocarbon in the total liquid product synthesized from a gas mixture of hydrogen and carbon monoxide which comprises passing said gas mixture at a temperature of between about 625 and 725° F. and a pressure of between about 400 to 600 pounds per square inch in contact with a catalyst consisting of a major amount of metallic iron and iron oxides promoted with a minor amount of a potassium compound, said conditions corresponding to a normal equilibrium content of between about 5% and 20% of oxygen based on total iron in the catalyst while producing a yield of total C_4+ product overhead of at least about 175 cc. per cubic meter of H_2+CO consumed at a synthesis gas H_2 to CO feed ratio of between about 1:1 and 2:1, said product containing normally an amount of high molecular weight material insufficient to raise the pour point of the total product above about 0° F., raising the oxygen concentration of said catalyst to a value above said normal equilibrium value, within the range of about 20% to 35% by weight of O_2 based on total Fe, and maintaining said increased oxygen content continuously for an extended period of time to produce a total C_4+ product containing an increased amount of high molecular weight products over that normally obtained at said operating conditions.

2,610,976

HYDROCARBON SYNTHESIS

Homer Z. Martin, Roselle, and Ivan Mayer, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application November 28, 1947, Serial No. 788,537
9 Claims. (Cl. 260—449.6)



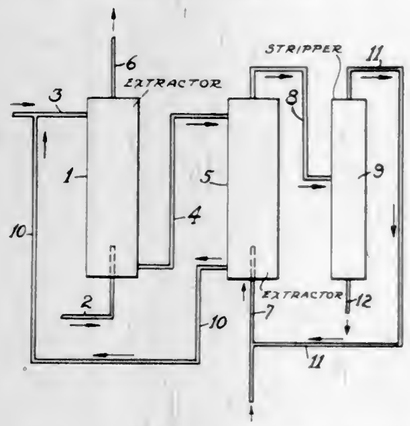
1. In the process of converting gas mixtures containing CO and H_2 into hydrocarbons and oxygenated products in the presence of a dense, turbulent, fluidized mass of finely divided catalyst tending to carbonize at the conversion conditions, the improvement which comprises maintaining dense turbulent beds of said finely divided catalyst in a plurality of separately confined reaction zones at conversion conditions, supplying a gas mixture containing CO and H_2 in conversion proportions to each of said reaction zones, passing finely divided catalyst through said reaction zones in series, passing said gas mixture in parallel flow through said zones whereby each of said zones is contacted with substantially similar proportions of H_2 and CO, withdrawing carbonized catalyst from the last of said reaction zones passed through by catalyst, subjecting said withdrawn catalyst to a decarbonization reaction with an oxidizing gas to burn off carbon and returning decarbonized catalyst to the first of said reaction zones passed through by catalyst.

2,610,977

RECOVERY OF ALCOHOLS FROM HYDROCARBON OILS

Salvatore G. Gallo, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 6, 1947, Serial No. 790,136
3 Claims. (Cl. 260—450)



1. A process for the separation of preferentially oil-soluble aliphatic alcohols from a solution thereof in hydrocarbons which comprises extracting said solution with an aqueous aliphatic alcohol solvent to form a first extract phase comprising the alcohols physically dissolved in the aqueous solvent and a first raffinate phase comprising the hydrocarbons, separating the phases, contacting the first extract phase with a low boiling hydrocarbon whereby the alcohols become separated from the aqueous solvent and concentrate in the low boiling hydrocarbon forming a second extract phase, separating the aqueous solvent from the second extract phase, and removing the low boiling hydrocarbon from the second extract phase.

2,610,978

PRODUCTION OF HALOGEN CONTAINING ORGANIC COMPOUNDS OF PHOSPHORUS

William M. Lanham, Charleston, W. Va., assignor to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application December 2, 1949, Serial No. 130,862
10 Claims. (Cl. 260—461)

1. Process for producing halogen-substituted alkyl phosphoric and phosphonic compounds, which comprises reacting at an elevated temperature, in the presence as catalyst of a metal halide of the class consisting of the halides of titanium and zirconium, an oxirane compound of the formula

wherein R is selected from the class consisting of hydrogen and the alkyl, chlorine-substituted and bromine-substituted alkyl radicals, with a compound of phosphorus selected from the class consisting of the phosphorus oxyhalides wherein each halogen has an atomic weight between 35 and 80, and derivatives of such phosphorus oxyhalides wherein one to two of such halogen atoms are replaced by a corresponding number of radicals of the class consisting of the hydrocarbon radicals and halogen-substituted hydrocarbon radicals directly connected to the phosphorus atom through a carbon to phosphorus bond, the same radicals connected with the phosphorus atom through an oxy oxygen atom, and the amido, mono- and di-alkyl substituted amido, and mono- and di-aryl substituted amido radicals.

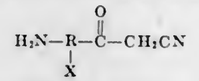
2,610,979

PROCESS FOR PREPARING AMINO AROYL ACETONITRILES

Leslie M. Schenck, Westfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 29, 1949, Serial No. 124,517
4 Claims. (Cl. 260—465)

1. An improved process for preparing an aminoaroyl acetonitrile of the formula



wherein R is an arylene group, X is a member of the class consisting of hydrogen, alkyl, halogen, alkoxy, phenyl and phenoxy groups, and wherein the cyanoaceto group is in a position selected from the class consisting of p- and m- to the amino group, which process comprises reacting the corresponding carbalkoxyamino aroyl chloride with ethylcyanoacetate and an enolizing agent, and heating the resulting product in a dilute aqueous alkaline medium whereby its two ester groups are selectively hydrolyzed and decarboxylated and the cyano group remains substantially intact.

2,610,980

PREPARATION OF AROMATIC CARBOXYLIC ACID AMIDES

Marcus A. Naylor, Jr., Bloomfield, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 25, 1949, Serial No. 123,531
7 Claims. (Cl. 260—558)

1. A process for preparing aromatic carboxylic acid amides which comprises heating a monocyclic aromatic hydrocarbon having at least one hydrogen atom of the aromatic ring replaced with an alkyl radical, any remaining valences of said aromatic ring being satisfied by hydrogen and said alkyl radical having at least one hydrogen atom attached to the carbon atom alpha to said aromatic ring, with a mixture comprising essentially sulfur and ammonia, at 180° C.–340° C.

2,610,981

PRODUCTION OF THIOLS AND THIOETHERS

Graham H. Short, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 28, 1947, Serial No. 771,157
7 Claims. (Cl. 260—609)

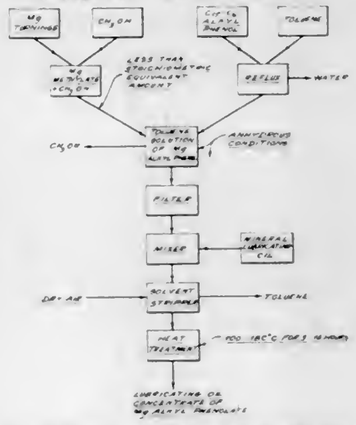
1. A process of making thiols and thioethers which comprises contacting at a temperature between 100 and 400° F. an olefin hydrocarbon having at least 8 carbon atoms per molecule, with a molar excess of a compound having the formula RSH, where R is selected from the group consisting of hydrogen and alkyl radicals, substantially non-reactive under the reaction conditions, in the presence of an acid activated montmorillonite catalyst, comprising a crystalline montmorillonite, which in its naturally occurring state has one-sixth of the aluminum replaced by magnesium, in which the ratio of alumina to magnesia is about 3 to 1, the amount of alumina being about 18 per cent on a dry basis, the residue other than alumina and magnesia being essentially silica.

2,610,982

MANUFACTURE OF MAGNESIUM SALTS OF HIGH MOLECULAR WEIGHT ALKYLATED HYDROXY AROMATIC COMPOUNDS AND THEIR USE IN LUBRICATING OILS

John W. Hutcheson, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application February 11, 1950, Serial No. 143,761
5 Claims. (Cl. 260—624)



1. In the manufacture of a magnesium salt of an alkyl substituted hydroxy aromatic hydrocarbon consisting of carbon, hydrogen and oxygen, wherein the alkyl substituent on the ring contains from 15 to 30 carbon atoms, the method which comprises reacting under substantially anhydrous conditions the alkyl substituted hydroxy aromatic hydrocarbon consisting of carbon, hydrogen and oxygen in solution in an organic solvent with a magnesium alcoholate solution consisting of magnesium alcoholate dissolved in an excess of the corresponding anhydrous alcohol selected from the group consisting of the lower molecular weight aliphatic alcohols containing from 1 to 5 carbon atoms in the molecule, said organic solvent having a higher boiling point than that of water as well as said alcohol, heating said reaction mix at mildly elevated temperatures at which the aliphatic alcohol is distilled off but below the boiling point of said organic solvent, to obtain a solution of the magnesium salt of the alkyl substituted hydroxy aromatic hydrocarbon in the said organic solvent, the quantity of magnesium alcoholate being less than the calculated stoichiometric amount required for neutralization of the quantity of alkyl substituted hydroxy aromatic hydrocarbon present.

3. The method according to claim 1, wherein the organic solvent solution is filtered, mineral lubricating oil is added, and the organic solvent removed by stripping with dry gas to recover a concentrate of the magnesium alkyl substituted hydroxy aromatic hydrocarbon in the mineral lubricating oil.

2,610,983

PREVENTION OF PINKING IN RUBBER ARTICLES CONTAINING DI-BETA-NAPHTHYL-PARA-PHENYLENE DIAMINE ANTIOXIDANT

David G. Slovin, Providence, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 29, 1949, Serial No. 107,640
6 Claims. (Cl. 260—810)

1. A sulfur-vulcanized rubber article containing a small amount of symmetrical di-beta-naphthyl-para-phenylene diamine incorporated before vulcanization and effective to protect the vulcanized rubber against oxidation, the formulation of said vulcanized rubber article being such that in the absence of the hereinafter specified 2,5-di-tertiary butyl hydroquinone it would exhibit an objectionable tendency to develop a visible pink discoloration by reason of the presence of said diamine, said vulcanized rubber article being protected against said tendency to develop said visible pink discoloration by the presence therein of a small amount of 2,5-di-tertiary butyl hydroquinone incorporated before vulcanization.

ELECTRICAL

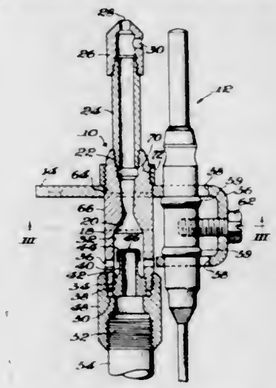
2,610,984

THERMOGENERATOR AND PILOT BURNER ASSEMBLY

Victor Weber and William S. Kunzler, Greensburg, Pa., assignors to Robertshaw-Fulton Controls Company, Youngwood, Pa., a corporation of Delaware

Application August 21, 1948, Serial No. 45,446
3 Claims. (Cl. 136—4)

1. In an automatic pilot burner device, the combination of a tubular element adapted to convey a gas-air mixture therethrough, a burner tip carried at one end of said element and having a port at which said mixture is adapted to produce a flame, a thermoelectric element adapted to be positioned in the path of said flame to be heated thereby, a bracket having a plurality of apertures therein and a hooked end containing a pair of said apertures spaced in substantial alignment, one of said elements being adapted to project through one of said apertures and the other said element being adapted to project through said pair of apertures, means engageable with said bracket for securing said one element in said one aperture, abutment means carried by said other element, said abutment means being adapted to pass through at least



one of said pair of said apertures, and means engageable with said bracket for displacing said

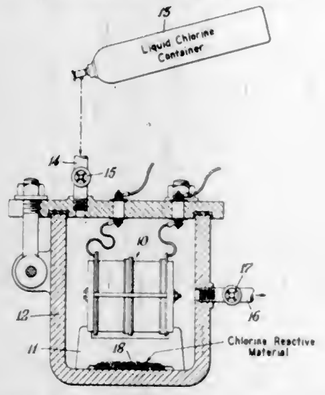
other element transversely of the axis of said pair of apertures to position said abutment means to be engageable with the internal faces of said hooked end.

2,610,985

ACCELERATION OF VAPORIZATION OF CHLORINE IN A BATTERY

Erwin A. Schumacher, Cleveland, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application January 12, 1949, Serial No. 70,591
15 Claims. (Cl. 136—86)



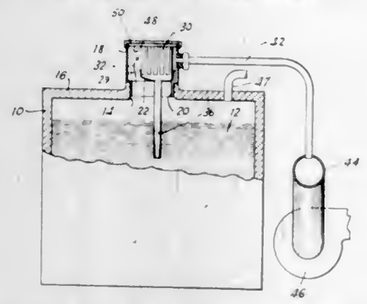
1. A method of vaporizing liquid chlorine which comprises bringing liquid chlorine into contact with a metal chlorine reactive body, said body comprising a foundation metal not more than .005 of an inch thick, said foundation metal being coated with an adhesive which is reactive with chlorine, and finely divided chlorine-reactive metal bound to said foundation by said adhesive, and vaporizing the liquid chlorine rapidly by the heat of reaction of said liquid chlorine with said metal body.

2,610,986

LIQUID RECOVERY APPARATUS

Paul M. Brister, Madison, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey

Application March 31, 1949, Serial No. 84,506
10 Claims. (Cl. 136—180)



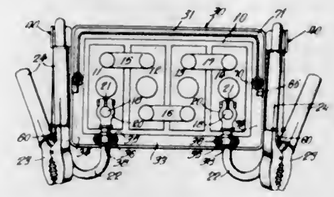
1. In combination, a storage battery provided with an opening above its liquid electrolyte, a shell having an inlet fitting within said opening, the shell having a gas outlet for communication with gas moving means, said inlet being spaced from said outlet, a liquid and gas separator including rows of spaced liquid separator elements of airfoil type cross section disposed between said inlet and outlet and across the path of fluid moving to the outlet, and liquid discharge means including a pipe having its inlet communicating with the space below said separator elements for returning the accumulated liquid to the electrolyte of the battery, said separator elements being set obliquely to the general direction of fluid flow to said outlet.

2,610,987

BATTERY AND CABLE CARRIER

Lawrence Betz, Chicago, Ill.

Application May 8, 1951, Serial No. 225,148
14 Claims. (Cl. 136—181)



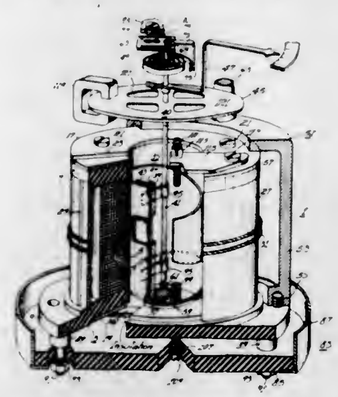
1. A battery and cable carrier adapted to receive a battery and the cables connected to the terminals of the battery, comprising an open top box adapted to conformably receive a battery with the upper surface of the battery exposed, a combined handle and cable retaining means secured to each of two opposite walls of said box, and a retaining bracket secured to each of two opposite walls of said box for the reception of the free end of each battery cable.

2,610,988

FREQUENCY COMPENSATED IRON-VANE INSTRUMENT

David B. Wiese, Highland, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 8, 1948, Serial No. 25,952
6 Claims. (Cl. 171—95)



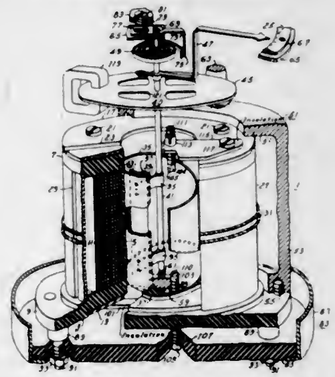
1. In an electrical instrument of the iron-vane repulsion type, means effective when energized for producing a magnetic field which varies in accordance with a quantity to be measured, a fixed magnetic element disposed in said magnetic field, a moving magnetic element disposed in said magnetic field, which is movable in an up-scale direction when the instrument is energized, said magnetic elements being positioned to develop a repulsion force therebetween responsive to said magnetic field, means mounting said moving magnetic element for rotation relative to said fixed magnetic element, said fixed magnetic element comprising an arcuate portion tapered in the up-scale direction and extending adjacent the path of rotation of said moving magnetic element and configured to produce a torque acting on said moving magnetic element, at least one current conducting element surrounding at least a down-scale portion of the fixed magnetic element and positioned adjacent the path of rotation of said moving magnetic element for diverting flux from the fixed magnetic element to the adjacent moving magnetic element to minimize the over-all frequency error of the instrument.

2,610,989

ELECTRICAL MEASURING INSTRUMENT

David B. Wiese, East Orange, and Henry L. Bernarde, Union, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 21, 1947, Serial No. 730,092
7 Claims. (Cl. 171—95)



1. In an electrical instrument, a first magnetic element, a supporting structure, means for supporting the first magnetic element for rotation about a first axis relative to the supporting structure, a second magnetic element having at an extremity thereof projecting toward the path of rotation of said first magnetic element a surface nonconcentric with its axis disposed adjacent the path of rotation of the first magnetic element, means effective when energized for directing magnetic flux through the magnetic elements for developing a force therebetween for affecting movement of the first magnetic element about said first axis relative to the supporting structure, adjusting means cooperating with the supporting structure to vary the force acting between the elements, said adjusting means providing for movement of the second magnetic element axially and for rotation of the second magnetic element about its axis to vary the distance between points on said surface and said first axis.

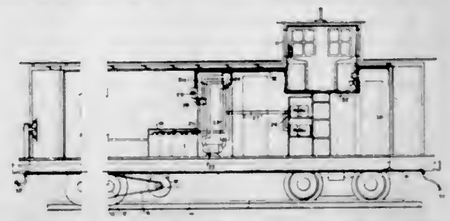
2,610,990

AIR ACTUATED TIME DELAY CONTROL SWITCH

Edward H. Musgrove, Denver, Colo.

Application May 20, 1949, Serial No. 94,449
12 Claims. (Cl. 171—97)

12. A mechanism for regulating the use of electrical power in transportation vehicles having a generator-battery source of electrical power and a pressure air system, comprising an electrical circuit for carrying electrical energy from said generator and battery to various positions of use in said transport vehicle, a main switch in said circuit, an air cylinder connected in said air system, a piston for reciprocal movement in said cylinder, means for introducing air under pressure into one end of said cylinder to move said piston in a first direction, resilient means within said cylinder for moving said piston in an opposite direction, an auxiliary cylinder within said air cylinder, a piston rod in engagement with said piston for movement therewith, an extension on



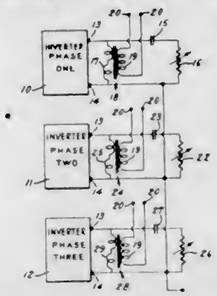
said piston rod extending into said auxiliary cylinder, an auxiliary piston on said extension having openings therein, fluid in said auxiliary cylinder, said fluid and said auxiliary piston being adapted to provide a dashpot action for regulating the rate of movement in said opposite direction, and a second electrical switch positioned adjacent said piston when in its pressure relieved position to be opened by said piston, thereby opening said main switch.

2,610,991

PHASE BALANCE OF 3-PHASE INVERTER

Ernest Levy, Jr., Bronx, N. Y., assignor to Sorensen & Company, Inc., Stamford, Conn., a corporation of Connecticut

Application April 3, 1951, Serial No. 219,108
4 Claims. (Cl. 171—119)



4. A phase balancing circuit for a polyphase inverter comprising, output terminals for each inverter phase, a voltage regulator circuit connected to said terminals, said regulator circuit having an inductive reactance, a load circuit and a capacitor connected in series arrangement across the output terminals, said capacitor having a reactance value sufficient to compensate for the phase change when the load is varied.

2,610,992

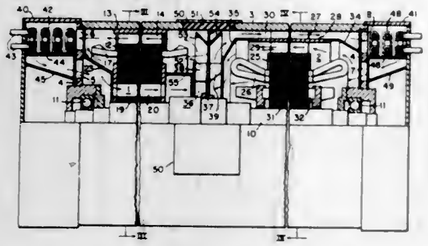
CONSTRUCTION OF DYNAMOELECTRIC MACHINES

Francis J. Johns and Henry J. Owens, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application May 16, 1950, Serial No. 162,368
9 Claims. (Cl. 171—123)

1. A motor-generator set comprising a frame structure, an electric generator and an electric

motor supported in the frame structure and having a common shaft, the generator and the motor each having a rotor member mounted on the shaft and each having a stator core carrying windings, said stator cores being mounted in the frame structure so as to provide axial ducts between the cores and the frame structure, fan means on the shaft between the generator and motor for circulating air in separate paths through the generator and motor and said ducts, the frame structure having radially spaced openings for air at the ends thereof and having openings for air adjacent the fan means, baffle means adjacent the openings at both ends of the frame for separating the air passing through the radially inner and outer openings and directing the air in predetermined paths, the frame structure being adapted for operation as an air-cooled



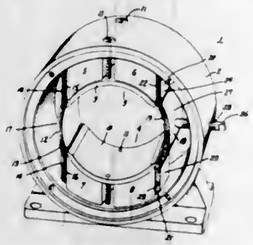
machine by means of a baffle member disposed at the generator side of the fan means to direct air flowing through the ducts in the generator side over the generator windiings and into the fan means, the air entering through the openings at both ends of the frame structure and being discharged through the openings adjacent the fan means, and the frame structure also being adapted for operation as a water-cooled machine by means of housing members secured to the ends of the frame structure over the air openings, the housings having cooling coils therein for circulation of water, cover means closing the openings in the frame structure adjacent the fan means, and baffle means disposed adjacent the fan means for directing the air in the machine in closed paths through the axial ducts, the housings and the generator and motor.

2,610,993

ADJUSTABLE MAGNETIC SHUNT FOR PERMANENT MAGNET GENERATORS

Julian H. Stark, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application July 12, 1951, Serial No. 236,311
3 Claims. (Cl. 171—252)



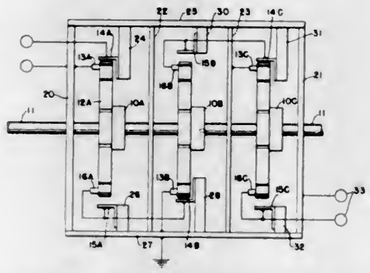
1. In a dynamoelectric machine, a stator member having a shell member, a pair of permanent magnet pole pieces projecting radially inward therefrom, a stationary shunt member formed of a plurality of separate laminations respectively abutting one side of each of said permanent magnet pole pieces and held in position by leakage flux therethrough for preventing demagnetization of said permanent magnet pole pieces, said shunt member being saturated by the leakage flux between said permanent magnet pole pieces, an adjustable shunt member formed of a plurality of laminations respectively abutting the other sides of said permanent magnet pole pieces, and means for adjusting the amount of engagement of said adjustable shunt member with said permanent magnet pole pieces for controlling the output voltage of said machine.

2,610,994

ELECTROSTATIC VOLTAGE MULTIPLIER

Carl Bosch, Westfield, N. J., and Morris H. Shamos, New York, N. Y., assignors to Chatham Electronics Corporation, Newark, N. J., a corporation of New Jersey

Application September 1, 1950, Serial No. 182,876
10 Claims. (Cl. 171—329)



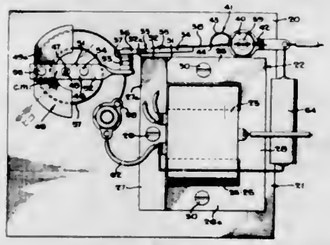
1. An electrostatic voltage multiplier for producing output potentials having a predetermined ratio to input potentials comprising, a rotatable insulator, a plurality of conducting sectors secured to said insulator, an input circuit including a stator conducting plate mounted adjacent to the conducting sectors and a contact brush which makes successive contact with the rotatable sectors, and an output circuit including a stator conducting plate mounted adjacent to the conducting sectors and connected to a contact brush which makes successive contact with the rotatable sectors as they move into the potential field of the output stator plate.

2,610,995

ELECTROMAGNETIC CIRCUIT INTERRUPTER

Ernest R. Orsatti, North Hollywood, and Donald A. Lace, Los Angeles, Calif.

Application December 23, 1948, Serial No. 66,854
11 Claims. (Cl. 172—126)



1. In a device of the character described, an electromagnet including a core, an armature adapted to be attracted to said core when said

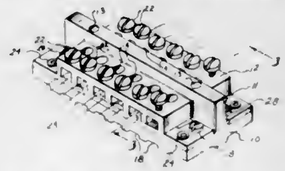
electromagnet is energized, flexible resilient means carrying said armature for movement to and from said core, and for rocking action relative to said core, said means yieldingly urging said armature to move to a normal position spaced a predetermined distance from said core, an electric contact movable with said armature, a coacting movable electrical contact engaged by said first mentioned contact in said predetermined position and arranged to be moved by said first mentioned contact when said armature is attracted by and moves toward said core, and coacting inter - engaging armature - rocking means on and between said armature and core operable under sustained magnetic attraction of the electromagnet for the armature following initial engagement of the armature with said core to rock said armature relative to said core in a direction to move the armature carried contact back from the second mentioned contact.

2,610,996

ELECTRICAL TERMINAL BLOCK

William P. Rickabaugh, Tabor, Iowa

Application May 16, 1951, Serial No. 226,612
1 Claim. (Cl. 173—324)



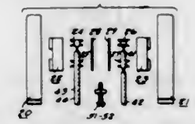
A device of the character described comprising a rectangular body of dielectric material, a longitudinally and upwardly extending ridged portion centrally disposed on said body, a block extending outwardly from each side of said ridged portion in spaced parallel relation to the top of said body, a longitudinally extending connector plate mounted atop said body below each of said blocks, a connector post extending through each end of each of said plates and each threadably connected to said body, and means for removably electrically connecting a plurality of pairs of lead wires to said plates, said means including a plurality of inwardly extending recesses in the lower portion of each of said blocks, upwardly biased spring connector members each affixed to the body and each positioned in one of said recesses, and a tension screw of dielectric material for each of said spring connectors each threadably and vertically mounted in said blocks immediately above one of said recesses, said connector members each having a flat first portion provided centrally with an opening extending therethrough, said block having vertical openings therethrough in each recess, said blocks having access openings one above each of said vertical openings, eyelets extending through each central and vertical opening and fixed to secure said flat first portion to said body, said connections each including a second portion obtusely angled relative to said first portion, said second portions each having a lead wire receiving aperture therein, and each connector having a third flat portion obtusely angled relative to said second portion and normally substantially parallel to said first portion, said tension screws abutting said third portions to bias the edges of the same into engagement with the associated lead wires, whereby two edges of said third portion and the edges of said apertures engage said wire fixedly to clamp said wire in electrical association with said connector plate.

2,610,997

LAMP HOLDER FOR DOUBLE ENDED TUBULAR LAMPS

Benjamin C. Webster, Southport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a corporation of Connecticut

Application April 19, 1948, Serial No. 22,011
13 Claims. (Cl. 173—328)



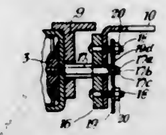
7. A lamp holder for use with tubular discharge lamps of the semi-circular type having contact pins at the ends thereof comprising, a housing of insulating material formed of two complementary sections with oppositely disposed substantially parallel flat face portions with spaced openings therein, said housing sections being recessed on their inner faces to form a cavity between the openings in the opposed faces, a pair of flat contact carriers of insulating material disposed in said cavity, said carriers being slidably mounted in the cavity, a pair of contact elements mounted in fixed spaced relation on each carrier and communicating with the openings in the face portions of the housing to receive the contact pins of the lamps therethrough, said carriers and their associated contact members forming floating contact assemblies which are each freely movable within the housing to compensate for manufacturing inaccuracies in the dimensions of the lamps.

2,610,998

REMOVABLE MOUNTINGS AND INTERLOCKING MEANS FOR ELECTRICAL DEVICES

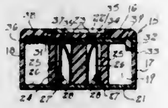
William K. Lockhart, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application July 7, 1948, Serial No. 37,386
3 Claims. (Cl. 173—328)



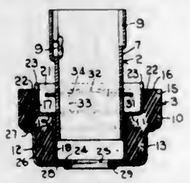
1. In combination, an electrical device including a base member, a plurality of electrical contact plugs mounted on the base member and projecting therefrom, a stationary support member for said device including a plurality of jacks for receiving said plugs, a stud projecting from one of the members and having a shank and an enlarged head, the other member having an aperture to receive the stud when the base member is moved by straight line motion to insert said plugs into said jacks, a locking plate movably mounted on the other member and having a slot wide enough to receive the shank but not wide enough to receive the head, and means for moving the locking plate between a first position wherein the stud may enter the aperture without engaging the plate and a second position wherein the slot engages the shank and prevents withdrawal of the stud from the aperture, said locking plate being effective in its first position to permit mounting of the base member on the support member with the jacks receiving the plugs, and effective in its second position to lock said device in place on said support member.

2,610,999
SAFETY ELECTRIC OUTLET
Sidney Silver, Brooklyn, N. Y.
Application August 16, 1949, Serial No. 110,563
1 Claim. (Cl. 173—330)



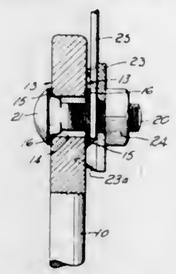
In an electric outlet receptacle, a casing enclosing a pair of spaced conductor strips, said casing having a front wall formed with a pair of spaced openings aligned with the conductor strips through which the prongs of an electric plug can be passed to contact the conductor strips, a slide member slidably positioned within said casing adjacent the front wall and formed with a pair of slots spaced a distance corresponding to the spacing of the spaced openings of the front wall, resilient means urging said slide member into a position in which said slots will be disaligned from the spaced openings, said slide member having one end exposed at one side of the casing by which said slide member can be pushed against the action of said resilient means to align said slots with the openings permitting the prongs of the plug to be inserted into the openings when desired, said one end of said slide member being formed with an enlarged finger engaging portion exposed at the said one side of the casing by which the slide member can be slid inward against the action of said resilient means to align said slots with the openings, and a peg mounted across the end of said slide member adjacent said enlarged finger engaging portion, said peg having its ends projected beyond the sides of said slide to engage the inner face of the said one wall of the casing when said slide member is urged by said resilient means to limit the action of said resilient means in urging said slide member to a position in which the outer face of said enlarged finger engaging portion is flush with the outer face of the said one wall of the casing.

2,611,000
PANEL MOUNTED LAMP SOCKET
Clarence W. Cochran, Belmont, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 13, 1950, Serial No. 155,675
6 Claims. (Cl. 173—339)



1. A lamp socket assembly adapted for turn-in engagement with an apertured support, said assembly comprising a tubular socket member, a tubular support-engaging member having an end portion secured to one end of said socket member and the opposite end portion surrounding said socket member in spaced relation thereto intermediate the ends thereof, said opposite end portion having apertures extending therethrough and spaced circumferentially about the circumference thereof adjacent the free edge thereof and support-engaging tongues extending laterally outward therefrom adjacent the free edge thereof intermediate said apertures, a ring member surrounding said socket member within said opposite end portion of said support-engaging member and having locking tongues extending therefrom through said apertures, a resilient gasket member surrounding said support-engaging member, and means supporting said gasket member adjacent said one end portion of said support-engaging portion, said gasket member having an end surface in engagement with said support-engaging tongues and said locking tongues and urging said locking tongues into substantially the plane of said support-engaging tongues, whereby said assembly may be secured to a support having an aperture with tongue-receiving slots by inserting the socket member in the aperture and the support-engaging tongues into the slots and turning the assembly so that the support-engaging tongues engage one face of the support and the end surface of the gasket member engages the opposite face of the support and the locking tongues are caused to be lockingly engaged in the slots to resist further rotation of the assembly.

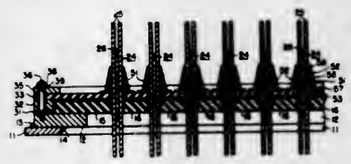
2,611,001
GROUND ROD BOND
Frederick G. Ridgers, Hamilton, Ontario, Canada, assignor to N. Slater Company Limited, Hamilton, Ontario, Canada
Application September 14, 1950, Serial No. 184,773
1 Claim. (Cl. 174—7)



In combination, a ground rod having a bulged portion adjacent its upper extremity, said bulged portion having a pair of flat parallel sides and having an oval shaped bolt receiving opening extending between said sides, a ring of material highly conductive of electricity surrounding each end of said opening and welded thereto, said ring being of material resisting corrosion and oxidation, said ring being formed of composite sheet material having a weldable layer adjacent said rod, and a copper outer layer, and wire securing means including a headed bolt extending through said opening and having a threaded end projecting through one of said rings, said bolt having a nut on said threaded end and a washer interposed between said nut and the adjacent ring, said washer having its ends inturned to protect said ring, bolt and opening.

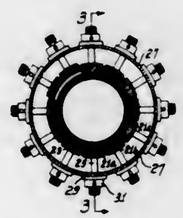
2,611,002
BUS BAR BUSHING STRUCTURE FOR ELECTRICAL APPARATUS CASINGS
William G. James, West Middlesex, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 26, 1949, Serial No. 89,786
4 Claims. (Cl. 174—18)

1. In a bus bar bushing structure for a plurality of terminal conductor leads extending between the inside and the outside of an electrical apparatus casing having an opening therein, an insulating platform closing the opening in the casing and provided with a plurality of spaced apart openings therein for accommodating the plurality of terminal conductor leads extending therethrough, said platform comprising a plurality of slabs of spacer members of insulating material forming the supporting structure of the platform, the slabs of spacer members extending across the opening in the casing and adjacent the terminal conductor leads to position them in their desired position within the opening in the casing, said platform including an insulating rubber mat extending along the outside of the plurality of slabs of spacer members and provided with a plurality of spaced-apart openings



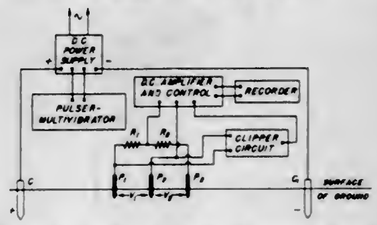
therein for accommodating the plurality of terminal conductor leads, gasket means between the outer edge of the platform and the casing adjacent the edge of the casing opening to prevent the passage of liquid or gas therebetween, and means for tightly sealing the terminal conductor leads in the openings in the insulating platform to prevent the passage of liquid or gas between the leads and the platform, said sealing means comprising an oil and oxygen resistant synthetic rubber bushing sleeve about each of the leads extending through the platform, said sleeve being cemented to the lead and to the platform about the lead, and a synthetic rubber tape forming a band positioned over the bushing sleeve and over a portion of the lead extending from the other end of the bushing sleeve.

2,611,003
BEAM ALIGNMENT DEVICE
Albert W. Friend, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 21, 1951, Serial No. 212,175
6 Claims. (Cl. 175—21)



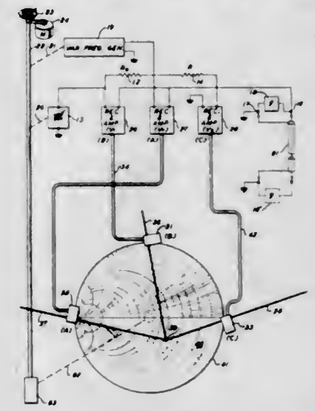
1. A cathode ray tube deflection yoke having a plurality of deflecting coils, a magnetic core cradled by said deflecting coils, said magnetic core comprising a plurality of elements, and means to move one of said elements along a radius from the center axis of said yoke.

2,611,004
GEOPHYSICAL EXPLORATION
Arthur A. Brant, Toronto, Ontario, Canada, and Everett A. Gilbert, Lake Hiawatha, N. J., assignors, by mesne assignments, to Geophysical Exploration Company, a corporation of Delaware
Application September 15, 1948, Serial No. 49,354
13 Claims. (Cl. 175—182)



1. The geophysical method of detecting the presence of sulphides in a medium permeated by an electrolyte said method comprising: inserting a pair of charging stakes into the earth at spaced points; inserting an array of three pick-up electrodes into the earth; applying a unidirectional charging current into the earth through the charging electrodes; interrupting said current within a time period of 30 seconds; and measuring the resultant transient potential appearing across pairs of said pick-up electrodes, said measurement being restricted to the transient potential having the same directive sense as the charging current and which decays to one half peak value within 0.5 second.

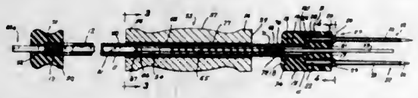
2,611,005
AUTOMATIC IMPEDANCE RECORDER
Leo W. Wilson, San Diego, Calif.
Application January 14, 1949, Serial No. 71,001
8 Claims. (Cl. 175—183)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for measuring unknown impedance comprising a chart surface, a first branch and a second branch connected in parallel, said first branch including a first resistor and a reactor in series, said second branch including a second resistor and an open circuited transmission line in series, the open end of said line being adapted to be connected across an unknown impedance, a source of variable frequency voltage connected across said branches, means for

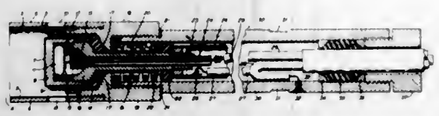
sweeping said source voltage thru the frequency range thereof, a link connecting said sweep frequency means to said reactor thereby to maintain its reactance constant over the swept frequency range, three voltage responsive means connected, respectively, (1) across said second resistor, (2) across said transmission line, and (3), between the respective midpoints of said two branches, each said voltage responsive means including a body pivotally mounted at the edge of said chart surface, an arm reciprocably mounted in said body, a driving mechanism carried by said body and connected to said arm, and control means for said driving mechanism whereby the particular energizing voltage to which said voltage responsive means is connected is made effective to extend and retract said arm in proportion to the magnitude of the energizing voltage; a pivot pin pivotally connecting the three arms adjacent their extended ends, a stylus mounted on said pivot pin effective to mark a chart disposed on said surface; and a link connecting said sweep frequency means to said chart surface to rotate the same as the frequency of said voltage is swept over its range.

2,611,006
ELECTRODE ASSEMBLY FOR MOISTURE METERS
William J. Delmhorst, Boonton, N. J.
Application September 1, 1950, Serial No. 182,665
12 Claims. (Cl. 175—183)



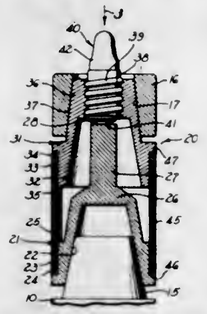
1. An electrode of the character described comprising a tube, a knob fixed to the rear end of the tube, an insulating head fixed to the forward end of the tube, a pair of pointed pins attached to the head and projecting forwardly therefrom and disposed on opposite sides of said tube, a cable electrically connected to said pins and a hammer slidable on the tube and between the knob and the head, and a gauge slidable within said tube and passing through openings in the knob and in the head, and located between said pins, and provided with a scale to indicate depth of penetration of the pins.

2,611,007
TEMPERATURE-COMPENSATING CONDUCTIVITY CELL
Phillip J. Cade, Winchester, and Burton E. Shaw, East Boxford, Mass., assignors to Photoswitch Marine Division, Inc., New York, N. Y., a corporation of New York
Application February 2, 1951, Serial No. 209,158
7 Claims. (Cl. 175—183)



1. An automatic temperature-compensating conductivity cell comprising a cell tube, an adapter piece coupled to said cell tube, a removable metallic outer electrode coupled to said cell tube by said adapter piece, a metallic container electrode enveloped by said outer electrode, a disc-shaped solid resistor having two flat circular surfaces and being positioned within said container electrode, one of said surfaces being soldered directly to said container electrode, a sealing ring of polytetra-fluorethylene electrically insulating said outer electrode from said container electrode, said adapter piece and said container electrode each having an annular tooth contacting said sealing ring, an electrode holder coupled to said container electrode, and a spring coupled to said electrode holder and applying a force which causes said annular teeth to bite deeply into said sealing ring whereby a liquid seal is formed between said outer electrode and said container electrode.

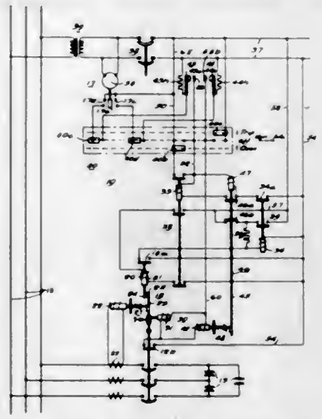
2,611,008
CIRCUIT TESTER FOR BATTERY-ENERGIZED CIRCUITS
Robert C. Wilcock and Paul E. Hastings, Pomona, Calif.
Application March 12, 1951, Serial No. 215,066
10 Claims. (Cl. 175—183)



1. A circuit tester for battery-energized circuits to determine the presence of circuit faults before permanently connecting a terminal of the battery to a terminal clamp, said circuit tester including: a lower terminal member detachably connectable to said battery terminal; an upper terminal member providing an exposed surface contactable by said battery clamp, said lower and upper terminal members being formed of conductive material; non-conductive means holding said lower and upper terminal members in spaced non-conductive relationship with respect to each other; and an electric bulb mounted to be viewable for signalling purposes and connected serially between said upper and lower terminal members to be energized by current from said battery flowing in said circuit due to such circuit fault.

2,611,009
CIRCUIT BREAKER CONTROL SYSTEM
William H. Cuttino, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 29, 1947, Serial No. 788,898
2 Claims. (Cl. 175—294)

1. In a control circuit for a circuit breaker operable to connect a load to a power circuit and having one trip device with a shunt winding and another with a series overcurrent winding operable to trip the breaker, a closing relay having an operating winding, a cutoff relay having contacts connected in series circuit with the operating winding of the closing relay, means including a voltage relay operable to selectively provide operating circuits for the closing relay and shunt trip device, a lockout relay of the latched-in-position type having an operating winding and a reset winding, a circuit connecting the operating winding of the lockout relay to the power circuit to operate the lockout relay and connect the operating winding of the closing relay in shunt circuit therewith, and an additional circuit connecting the reset winding in shunt relation with the shunt winding of the trip device for resetting the lockout relay to provide an operating circuit for the cutoff relay.



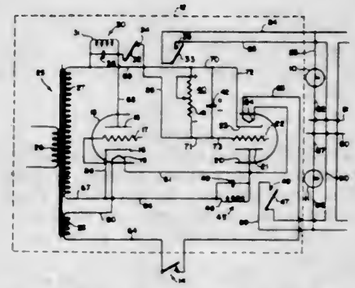
2,611,010
PRINTED CIRCUIT STRUCTURE FOR HIGH-FREQUENCY APPARATUS
Earl J. Sass, Oaklyn, and Donald Mackey, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application July 30, 1949, Serial No. 107,784
3 Claims. (Cl. 175—298)



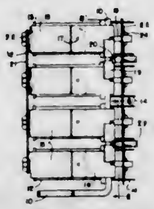
1. In a high frequency electric circuit assembly, a first circuit section and a second circuit section, each section comprising a carrier plate of insulating material having electrically conductive coating portions on one surface thereof only providing an electrical circuit and an electrically conductive shield stratum on the other surface thereof for providing electric shielding of said electrical circuit, and means including spacer elements intermediately located at a plurality of positions upon said plates, said means holding said plates in spaced face-to-face relationship with said electrically conductive coating portions disposed therebetween in spaced relationship whereby the intercircuit capacitance of said assembly is minimized, at least some of said spacer elements being electrically conductive and connected to circuit sections upon each plate for interconnecting the sections at predetermined points precluding crossover connections upon said plates.

2,611,011
ELECTRICAL TIMING APPARATUS
Richard S. Feigal, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 26, 1949, Serial No. 78,593
13 Claims. (Cl. 175—320)

1. A timing device comprising, a thermal electron emissive timer having an energizing circuit which is adapted to be completed by means including an actuating switch, a first current responsive means having an energized and a deenergized position and an electrical time delay network connected in a series-parallel current flow circuit with said thermal emissive timer when said first current responsive means is in the deenergized position, said first responsive means being energized upon the current flow through said electron emissive timer reaching a predetermined value following actuation of said switch and being maintained energized under the control of said switch, a second timer having a second responsive means and said time delay network connected in circuit therewith, and means including said time delay network for maintaining said second timer ineffective for a timed period following energization of said first responsive means.



2,611,012
ARMATURE MOUNTING FOR PLURAL ELECTROMAGNETIC RELAYS
George Thomas Baker, Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application April 25, 1946, Serial No. 664,782
In Great Britain May 16, 1945
1 Claim. (Cl. 175—337)



In a multi-unit relay, two electromagnets having two-ended cores of magnetic material, said magnets being adapted to be energized individually, two individual pole pieces of magnetic material, a common heel piece of magnetic material, a common brace element of non-magnetic material, means for attaching one end of the cores of said magnets to said heel piece, means for attaching said brace element to the other ends of the cores of said magnets to stiffen said assembly of said heel piece and said magnets, said last mentioned means also attaching said pole pieces respectively to said other ends of the cores of said magnets, two armatures of magnetic material, each said armature having a positioning recess, a retaining clip having two members, means for mounting said clip on said heel piece to cause one of said members of said clip to engage said recess of one of said armatures and to cause said other member of said clip to engage said recess of said other armature, said

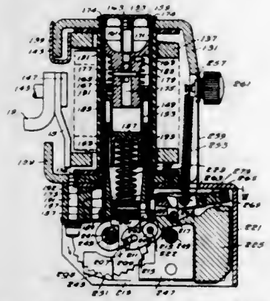
engagements of said members of said clip pivotally positioning and supporting said armatures on said heel piece adjacent respectively to said individual pole pieces with a small air gap between each said armature and its adjacent individual pole piece, the magnetic flux path for one of said armatures being completed by way of a portion of said heel piece, the core of one of said magnets, and one of said individual pole pieces in response to the energization of said one magnet for causing the operation of said one armature, the non-magnetic material of said brace element preventing the inclusion of the core of said other magnet and said other individual pole piece in said path.

2,611,013

ELECTROMAGNETIC TRIP DEVICE

Ture Lindstrom, Edgewood, Jerome Sandin, Forest Hills, and Herbert L. Rawlins, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 19, 1945, Serial No. 629,662
9 Claims. (Cl. 175—372)



1. In a circuit breaker, a trip device comprising an energizing winding, a fixed magnet yoke having a portion of reduced cross section, a sealed casing movable to effect a tripping operation, a first armature at one end of said casing for moving said casing upon energization of said trip device by certain overload currents, a first time delay means comprising a magnetizable member disposed in said casing and having a portion of reduced cross section, means biasing said magnetizable member to a normal position wherein the portion of reduced cross section cooperates with the portion of reduced cross section of said magnet yoke to form an air gap of high density flux, said air gap restraining said magnetizable member against movement when said trip device is energized by said certain overload currents to thereby retard movement of said casing with a relatively long time delay, a second armature in axial alignment with said first armature for moving said casing upon energization of said trip device by certain other overload currents, and a second time delay means comprising a mechanical escapement device connected to said second armature operable when said trip device is energized by said certain other overload currents to retard movement of said casing with a relatively short time delay.

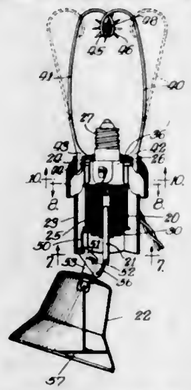
2,611,014

ACTUATED CHRISTMAS TREE ORNAMENT

Leslie D. Burgesser, Chicago, Ill., assignor to Wells, Inc., a corporation of Illinois

Application September 6, 1950, Serial No. 183,390
9 Claims. (Cl. 177—7)

9. An ornamental bell ringing unit having a clapper in the bell and comprising a solenoid connected with an intermittent source of electrical energy, a housing about the solenoid for supporting the same, said housing being spaced from the solenoid to provide air passages between said walls and solenoid, means for removably supporting the unit in upright position and a core movable within the solenoid upon energization or deenergization of the solenoid, said core being operatively connected with a bell to ring the same upon movement of the core.

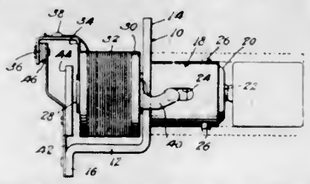


2,611,015

VIBRATOR

Harry E. Pouell, Logansport, Ind.

Application November 8, 1951, Serial No. 255,434
4 Claims. (Cl. 177—7)



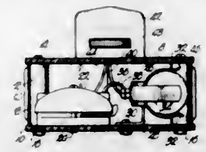
1. A vibrator unit adapted to be mounted in a conventional bayonet type lamp socket comprising a substantially Z-shaped frame of conducting material, a circular cylindrical projection of conductive material carried by and pro ecting outwardly from one of the legs of the Z-shaped frame and adapted to enter the shell of a bayonet type lamp socket and to effect good electrical contact therewith, a core of magnetically responsive material carried by the aforesaid leg of said Z-shaped frame and projecting inwardly from said leg in substantially axial alignment with the projection, a spool carrying a coiled conductor mounted on the core, a bracket arm of conductive material carried by and projecting outwardly from the end of the spool remote from the aforesaid leg of the frame, a contact carried by said bracket arm and facing the spool in spaced relation thereto, a leaf spring carried by the opposite arm of the frame and extending across the end of the core adjacent the arm and into the space between the contact and the spool, an armature carried by the spring adjacent the core for vibrating the spring when the core is magnetically energized and de-energized, one terminal of the coil being electrically connected to the arm, a contact member carried by and electrically isolated from the leg of the frame carrying the projection, and the terminal of the coil opposite that connected to the arm being electrically connected to the contact member.

2,611,016

PORTABLE FIRE ALARM UNIT

Samuel Nuccio, Kansas City, Mo.

Application March 29, 1950, Serial No. 152,667
1 Claim. (Cl. 177—311)



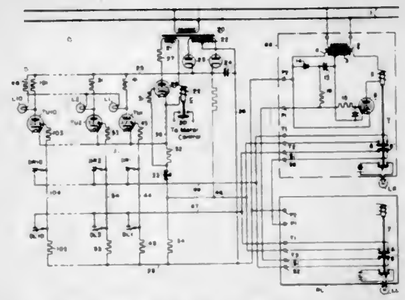
In a portable fire alarm device, a casing structure comprising a pair of panels separated by spacing sleeves abutting the opposed inner faces of the panels and enclosing bolt fastenings securing said panels in spaced relation, an electrically actuated bell unit and battery cells enclosed within the space between said panels at the opposite sides of said space respectively, a bracket structure secured to one of said panels within said space and formed with spring retaining fingers for removable clamping engagement with said battery cells and also having spring contact fingers in circuit with said bell unit and adapted for electric contacting engagement with said battery cells, a thermostat device carried by one of said spaced panels and provided with electric control connections to both said battery cells and said bell unit for actuating the latter in response to the operation of said thermostat device, and a closure strip of flexible material extending continuously around the space between said panels and having securing means removably connecting the ends of said strip for retaining the latter in supporting engagement with said spacing sleeves exteriorly thereof, the spring retaining fingers of said bracket structure being spread in open relation at the exterior of said space between said panels for facilitating replacement of the battery cells on removal of said closure strip.

2,611,017

FAULT RESPONSIVE INDICATING CONTROL APPARATUS PREFERABLY FOR TEXTILE MACHINERY

Francis T. Bailey, East Aurora, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 20, 1950, Serial No. 169,217
10 Claims. (Cl. 177—311)



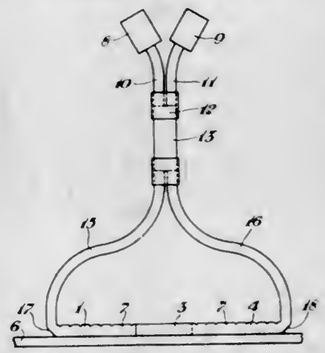
1. A fault-responsive indicating control apparatus, comprising a plurality of electronic control tubes having respective main circuits and respective grid circuits, said main circuits having individual resistive portions and having a resistive common portion, said individual circuit portions being connected in parallel relation to one another and in series relation to said common portion, a plurality of indicator means connected with said respective individual circuit portions to be controlled by said respective control tubes, an electron master tube having a load circuit to be controlled and having a grid circuit connected with said common circuit portion for controlling said load circuit in dependence upon operation of any one of said control tubes, a number of relay units each having a group indicator to be controlled and each having a relay control circuit, a number of groups of fault-responsive control devices, one of said devices of each group being connected with one of said respective control tube grid circuits and with one of said respective relay control circuits so that each device controls a selected one of said control tubes together with a selected one of said relay units.

2,611,018

MIMIC DIAGRAM PANEL

Roger Bennett Thorp, London, England, assignor to Westinghouse Brake and Signal Company Limited, London, England

Application June 28, 1950, Serial No. 170,779
In Great Britain June 24, 1949
3 Claims. (Cl. 177—311)



1. For a railway signalling system, a mimic track diagram panel depicting a cross-over comprising, in combination, a sheet of transparent material; four strips or plates of transparent material in surface contact with said sheet and each having delineated thereon a representation of one arm of said cross-over, said representation being adapted to be illuminated by internal reflection of light within said strip or plate; a first single rod of transparent material; a first pair of individual rods of transparent material in light transferring engagement with one end of said first single rod and a diagonally opposed pair of said strips or plates; a second single rod of transparent material; a second pair of individual rods of transparent material in light transferring engagement with one end of said second single rod the other diagonally opposed pair of said strips or plates; and means for at times illuminating the other end of said first single rod or said second single rod.

2,611,019

MULTICOLORED MANUAL SIGNAL LIGHT

Edmund A. Warner, Euclid, Ohio, assignor to The Lake Erie Chemical Company, Cleveland, Ohio, a corporation of Ohio

Application April 13, 1949, Serial No. 87,198
13 Claims. (Cl. 177—329)

1. An attachment for a light producing device having an opening through which light is emitted,

the said attachment comprising a transparent plate-like portion adapted to be mounted in light transmitting relationship with said opening, an elongated portion formed of transparent material united with one side face of said plate-like portion and extending outwardly therefrom at substantially right angles thereto, the material of said elongated portion having an index of refrac-



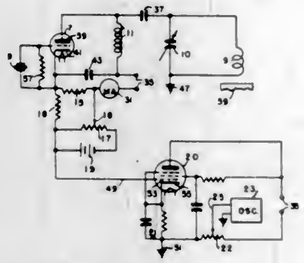
tion such that when the attachment is applied to a light producing device the light therefrom is transmitted axially through said elongated portion with a portion of that light emanating through the side wall of said elongated portion throughout its length, and means imparting different colors to the portions of the light simultaneously emitted from different longitudinal parts of the side wall of said elongated portion.

2,611,020

CRYSTAL OSCILLATOR ULTRAMICROMETER

George Ralston, Wilkinsburg, Pa., and Ernest Charles Goggio, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 16, 1949, Serial No. 81,666
4 Claims. (Cl. 177—351)



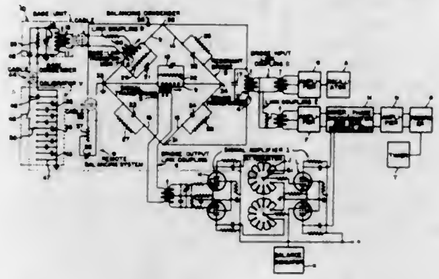
1. An electronic ultra micrometer for measuring distance variation between two elements comprising a crystal controlled electron tube oscillator comprising an oscillator tube having a cathode, a plate, and a grid and having a tank circuit including an inductance and a capacitance, means for tuning said tank circuit, said inductance constituting the first of said elements, the second of said elements being of metal and positioned in the field of said inductance and means for measuring variations of energy in the tank circuit of said oscillator corresponding to variations in distance between said elements, said tank circuit being adjusted so that the region of operation of the circuit is on the steep portion of the oscillator plate current characteristic, in which region a tank circuit inductance effect corresponding to a relatively small variation in distance between said elements will produce a relatively large change in the oscillator plate current.

2,611,021

RESONANT BRIDGE CIRCUITS

Thomas Alfred Perls, Glen Echo Heights, Md., and George W. Cook, Arlington, Va.

Application August 17, 1949, Serial No. 110,859
9 Claims. (Cl. 177—351)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



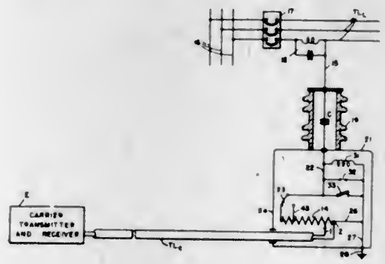
1. In a measuring system, a source of electric power of a high frequency, an impedance bridge having input and output terminals and paralleled impedance-capacitance elements in each arm thereof, an input inductance connected between the input terminals and coupled to said electric power source, a capacitance connected in parallel with said input inductance, said input inductance, said capacitance, and said bridge being tuned to resonate at the frequency of said source, an output inductance connected between the output terminals, said output inductance and said bridge being tuned to resonate at the frequency of said source, an indicator coupled to said output inductance, and means varying the impedance of one arm of the bridge responsive to a change in a force or condition to be measured.

2,611,022

CARRIER-CURRENT COUPLER

Bernard E. Lenehan, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 26, 1949, Serial No. 72,894
6 Claims. (Cl. 177—352)



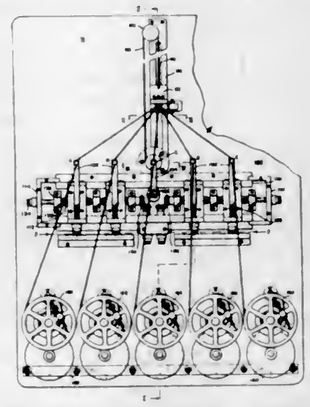
1. A novel coupling-transformer adapted to couple a carrier-frequency lead-in communication-line cable, having a length which is considerably less than one wavelength of the carrier wave, to a serially connected coupling-transformer and thence to a carrier-frequency communications-transmitting line which is very long as compared to the wavelength of the carrier wave, said coupling-transformer being characterized by having a predetermined value of primary inductance, a predetermined value of secondary inductance, and a predetermined value of coupling-coefficient which are usable over a material range of carrier frequencies, the upper and lower limits of said usable frequency-range producing mismatched-impedance coupling-conditions in which the backward-to-forward standing-wave voltage-ratio is of the order of 0.5 or more in said cable, said voltage-ratio being lower at intermediate frequencies than at said upper and lower frequency-limits, the minimum-frequency backward-to-forward standing-wave voltage-ratio in the cable being between the values of approximately 0.5 and approximately 0.8.

2,611,023

SOUND RANGING COMPUTER

Ralph L. Dunn, Neptune, N. J., assignor to the United States of America as represented by the Secretary of the Army

Application February 15, 1951, Serial No. 211,173
10 Claims. (Cl. 177—352)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



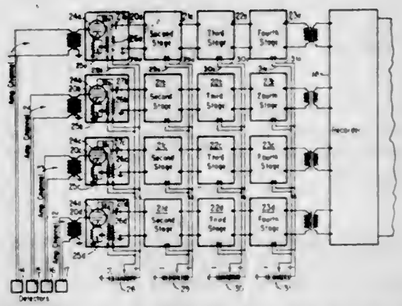
1. A sound locating device for use with a sound ranging system wherein a plurality of microphones are employed in a prescribed field of operation to record the relative arrival times of a source of sound, comprising a flat surface, a portion of said surface being calibrated to reproduce said field of operation in miniature and to scale, said calibrated surface having a prescribed datum point, means mounted on said calibrated surface for reproducing in miniature and to scale the location of the field microphones relative to said datum point, an elongated plotting arm operable on said calibrated surface and adapted to pivot about said datum point, a plotting point carrier slidably mounted on said plotting arm, means associated with each of said reproduced microphone locations for indicating the difference in arrival times of a particular sound source at each reproduced microphone location with respect to a prescribed selected microphone location, and means drivenly connected to said time difference indicating means for simultaneously pivoting said plotting arm about said datum point and positioning said plotting point carrier along said arm.

2,611,024

SEISMIC SIGNAL AMPLIFYING SYSTEM

James E. Hawkins, Tulsa, Okla., assignor to Seismograph Service Corporation, Tulsa, Okla., a corporation of Delaware

Application September 20, 1946, Serial No. 698,343
2 Claims. (Cl. 177—352)



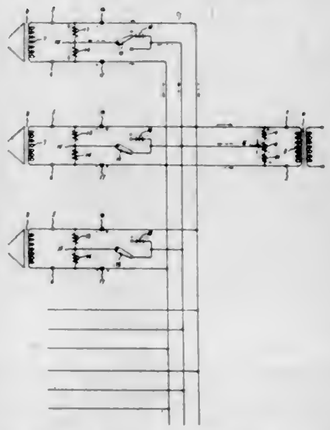
1. In a multi-channel seismic signal translating system, a plurality of seismic signal detectors, a seismic signal recorder, a plurality of channels for separately transmitting seismic signals from different ones of said detectors to said recorder, a plurality of amplifier stages in each of said channels, each of said amplifier stages including at least one amplifier tube provided with an anode, a plurality of sources of anode current individually corresponding to the different stages of said system, conductive circuit means including impedance elements individual to said tubes for connecting each source to deliver anode currents only to the tubes of the respective corresponding stages of all of said channels, the ratio of the effective shunt impedance of impedance elements of corresponding stages to the internal resistive impedance of the corresponding current source being of sufficient magnitude substantially to suppress signal cross feed between channels.

2,611,025

SELECTIVE SIGNAL TRANSMISSION SYSTEM

Herman Jankowski, Liverpool, N. Y., assignor to General Electric Company, a corporation of New York

Application August 1, 1951, Serial No. 239,823
6 Claims. (Cl. 177—353)



1. A selective signal transmission system for selectively transmitting electrical signals between a first pair of terminals and any one of

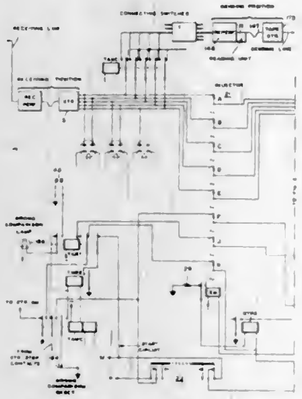
a plurality of second pairs of terminals, said system comprising a tapped resistor connected in shunt relation with said first pair of terminals, a plurality of center tapped resistors each connected in shunt relation with one of said second pairs of terminals, and a plurality of pairs of unidirectional impedances each similarly poled and connecting the extremities of each of said center tapped resistors and the extremities of said tapped resistor, whereby a direct voltage of predeterminal polarity applied between the tap of said tapped resistor and the center tap of any one of said center tapped resistors effectively connects only the corresponding second pair of terminals to said first pair of terminals for signal transmission therebetween.

2,611,026

TESTING ARRANGEMENT FOR AUTOMATIC TELEGRAPH SWITCHING SYSTEM

William B. Blanton, Rockville Centre, and Arnold H. Scheinman, Brooklyn, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application February 4, 1950, Serial No. 142,458
13 Claims. (Cl. 178—2)



1. In a telegraph system, a switching office having a message receiving position including equipment for receiving, storing and transmitting message signals, and a message sending position also including equipment for receiving, storing and transmitting message signals, means for establishing a transmission path between said receiving position and said sending position and transmitting a message thereover whereby a message in the storing means of the receiving position is transferred to the storing means of said sending position, means for automatically comparing at least a part of the signals stored by the storing means of said sending position with predetermined message identifying signals, and means operative on the failure of said compared signals to correspond to automatically transmit test signals over said transmission path for storage in said medium and to determine the accuracy of the stored test signals.

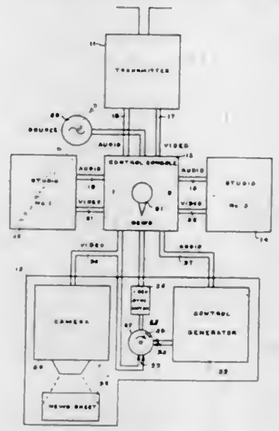
2,611,027

TELEVISION STILL-PICTURE TRANSMITTING AND RECORDING SYSTEM

John Hays Hammond, Jr., Gloucester, Mass.

Application July 10, 1948, Serial No. 38,073
5 Claims. (Cl. 178—6.7)

1. A system comprising a television transmitting station and a television receiving station for utilizing television type transmission for the facsimile transmission of a still picture during a time pause in the transmission of a television program, said transmitting station having means for transmitting regular television programs, said transmitting station having a first means for sending remote control signals, said transmitting station having a second means for televising the still picture to be recorded, timing means at said transmitting station to actuate said second transmitting station means subsequent to the sending of said control signals by said first transmitting station means, said receiving station having means for receiving regular television programs, said receiving station having a first means for recording a transmitted picture, said receiving station having a second means responsive to said remote control signals to control the operation of said first receiving station means, means to time the timed relation of actuation of said second transmitting station means with respect to the operation of said first receiving station means, and delay means at said receiving station responsive to said first transmitting station means whereby the recorder is actuated only by the still picture to the exclusion of the television program.

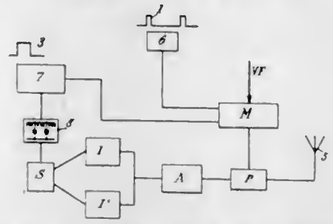


2,611,028

TELEVISION TRANSMISSION SYSTEM

Armand Vorms, Paris, France, assignor to Society "La Radio Industrie," S. A., Paris, France, a society of France

Application October 19, 1949, Serial No. 122,201
In France October 26, 1948
1 Claim. (Cl. 178—7.1)



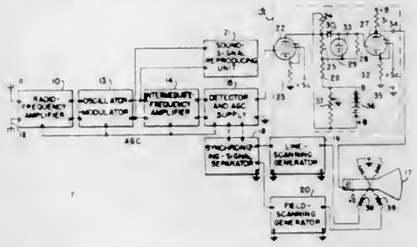
A television transmitter which comprises, in combination, an oscillator device capable of generating a carrier wave of either of two different frequencies, means connected with the output of said oscillator device for transmitting the carrier wave supplied by said device, a synchronizing pulse generator, means connected to the output of said synchronizing pulse generator for amplitude modulating the carrier wave between the output of said oscillator device and said transmitting means in response to the production of pulses by said synchronizing pulse generator, means coupled with said oscillator device for shifting the working frequency thereof from one to the other of the above mentioned frequencies, and means interposed between said synchronizing pulse generator and said shifting means for subjecting to a predetermined delay the operation of said shifting means with respect to the production of synchronizing pulses by said oscillating pulse generator.

2,611,029

DIRECT CURRENT RESTORER FOR MAINTAINING CONSTANT BLACK LEVEL AT CATHODE-RAY TUBE

William F. Bailey, Valley Stream, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application January 21, 1950, Serial No. 139,935
5 Claims. (Cl. 178—7.5)



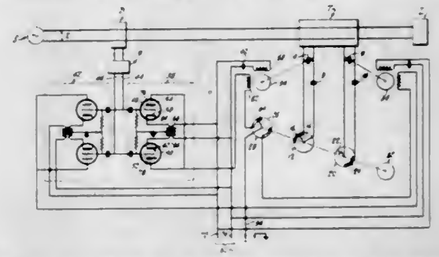
5. A television receiver signal-translating system for translating a video-frequency signal having one amplitude level representative of synchronizing-signal peaks while a predetermined fractional portion of said level is representative of black comprising: a source of unidirectional potentials one thereof being positive with respect to a predetermined reference level and another thereof being effectively negative with respect to said reference level; a first video-frequency amplifier for translating said video-frequency signal comprising an electron-discharge device having a plurality of electrodes including an anode and comprising a potential-isolating impedance coupled between said anode and said positive potential source; a potential-divider network including an intermediate terminal and including a pair of terminals one of which is coupled to said anode and the other to said negative potential source, the portion of said network coupled between said negative potential source and said intermediate terminal having an impedance with relation to the total impedance of said network as is the amplitude of said synchronizing signal to the overall amplitude of said video-frequency signal; a second video-frequency amplifier including an input circuit having at least two signal-translating channels one thereof being capacitively coupled to said anode of said first amplifier for translating said video-frequency signal developed across said network and the other of said channels being conductively connected to said intermediate terminal for translating the signal developed in said portion and providing a unidirectional bias potential with respect to said predetermined level for said input circuit; and a signal-stabilizing network comprising a peak-rectifying circuit including a diode having the anode thereof coupled to said one channel and the cathode coupled to said intermediate terminal thus being so poled as to conduct upon the application of the peaks of said synchronizing signals to said anode of said diode and to combine said signals translated in each of said channels, thereby to produce in said input circuit a resultant video-frequency signal having a level representative of said black level and stabilized so that said last-mentioned black level is substantially independent of variations of the average amplitude of said first-mentioned video-frequency signal.

2,611,030

ENERGY TRANSFER SYSTEM

Carl G. Sontheimer, Riverside, Conn.

Application October 24, 1947, Serial No. 781,834
16 Claims. (Cl. 178—44)



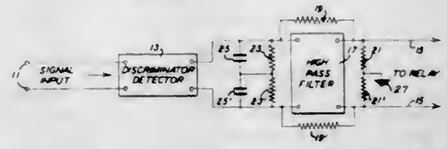
14. In a transfer system subject to external variations in conditions of transfer, apparatus for maintaining a predetermined condition of operation, comprising compensating means having a first and a second independently adjustable element for compensating said external variations, means effecting incremental, continual, and individual variation of said elements in accordance with a first and a second periodic law of variation, means responsive to changes in said condition of operation and including means for separating first and second effects produced by said changes in accordance with said first and second laws of variation, respectively, and means for individually adjusting said first and second elements in accordance with said first and second effects respectively.

2,611,031

CARRIER TYPE SIGNALING SYSTEM

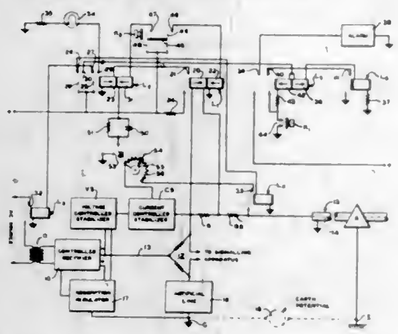
Kurt E. Appert, San Francisco, Calif., assignor to Lenkurt Electric Co., Inc., San Carlos, Calif., a corporation of Delaware

Application February 18, 1949, Serial No. 77,240
11 Claims. (Cl. 178—66)



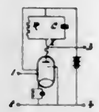
1. In a signalling circuit to which signals varied in frequency at a signalling rate by small opposite deviations from a mean value are supplied, a circuit for operating a polar relay or the like comprising detector means selectively responsive to frequency deviations in opposite directions to produce output currents in opposite directions, an output impedance adapted to draw both alternating and direct current from said detector means, and connections between said detector means and said impedance including separate D. C. and A. C. paths for supplying such current.

2,611,032
SUBMARINE CABLE OVERCURRENT PROTECTIVE DEVICE
Philip H. Wells, Chatham, N. J., and Clifford H. Cramer, Great Neck, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application May 31, 1951, Serial No. 229,195
10 Claims. (Cl. 178—69)



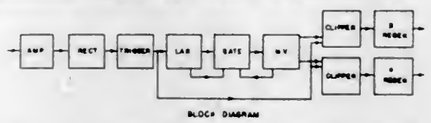
1. In a terminal station for a submarine cable circuit having a repeating amplifier interposed in a portion thereof remote from said station, the combination comprising a source of direct current power for said amplifier, a control circuit coupled to said source to control the magnitude of the current delivered therefrom, a first impedance element intercoupling said source and said cable circuit, and an overcurrent protection device comprising means selectively to disable said source, a second impedance element, circuit means selectively to interpose said second impedance element in said cable circuit, means responsive to a flow of current through said first impedance element in excess of a predetermined maximum value to actuate said disabling means and said circuit means thereby to disable said source and to interpose said second impedance element in said cable circuit, first manually operable means coupled to said control circuit to adjust said control circuit for a predetermined minimum current flow from said source, second manually operable means to actuate said disabling means and said circuit means thereby to render said source operative and to remove said second impedance element from said cable circuit and means coupled to said second manually operable means and arranged to permit operation thereof solely when said control circuit is adjusted for said predetermined minimum current flow from said source.

2,611,033
SYNCHRONIZING SYSTEM
Emlyn Jones, Salfords, near Redhill, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 13, 1949, Serial No. 110,150
In Great Britain August 16, 1948
3 Claims. (Cl. 178—69.5)



1. In a television frame synchronizing circuit, the combination comprising a unidirectional conductor having an input circuit comprising a first network including a first resistance element and a first capacitive element and having a first time constant and an output circuit comprising a second network including a second resistance element and a second capacitive element and having a second time constant, and means to apply a train of frame synchronizing pulses to said input circuit to increase the potential difference between said input circuit and said output circuit thereby to cause said unidirectional conductor to conduct and to charge said second capacitive element, the time constant of said first network having a value at which said conduction of said unidirectional conductor is produced substantially at the start of said train of frame synchronizing pulses, the time constants of said first and second networks having related values at which the discharge of said second capacitive element decreases the potential difference between said input and output circuits during the greater portion of the duration of said train of frame synchronizing pulses subsequent to the start of conduction of said unidirectional conductor thereby to prevent conduction of said unidirectional conductor during said greater portion.

2,611,034
ELECTRONIC DIPLEX KEYER
Gene L. Brewer, Washington, D. C.
Application November 26, 1948, Serial No. 62,170
9 Claims. (Cl. 178—70)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a receiving keyer including means to receive groups of a predetermined number of coded pulses, a lag circuit to produce a delayed pulse in response to a received pulse, said lag circuit being connected to said receiving means and provided with adjustable means connected to said lag circuit to vary the period by which the delayed pulse follows the received pulse, a normally quiescent electronic oscillator connected to said lag circuit and arranged to produce a wave of a predetermined number of cycles on production of said delayed pulse, said number of cycles corresponding approximately to said predetermined number of coded pulses in a group, and means to produce an output pulse only when a received pulse occurs in coincidence with a predetermined point in said cycles.

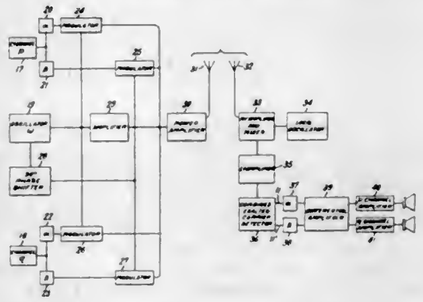
2,611,035
NOISE-CANCELING MICROPHONE
Robert K. Duncan, Woodburn, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application January 31, 1950, Serial No. 141,483
5 Claims. (Cl. 179—1)

1. A sound translating device comprising a pair of dynamic microphone units, each of said units having a vibratile member mounted for movement in response to the first order gradient of the sound pressure, said vibratile members being mounted in spaced apart relation facing each other for movement in opposite directions in response to sound waves impinging thereon from a closely disposed sound source and directed between said members, and means for effectively connecting the signal outputs of said units whereby the voltages developed respectively by



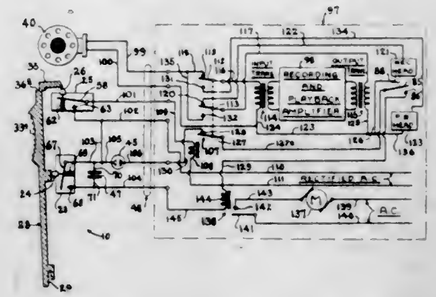
said units will be additive when said vibratile members move in opposite directions and will oppose each other when said vibratile members move in the same direction.

2,611,036
SELECTIVE SIDEBAND TRANSMISSION AND RECEPTION SYSTEM
Donald E. Norgaard, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application November 12, 1947, Serial No. 785,259
39 Claims. (Cl. 179—15)



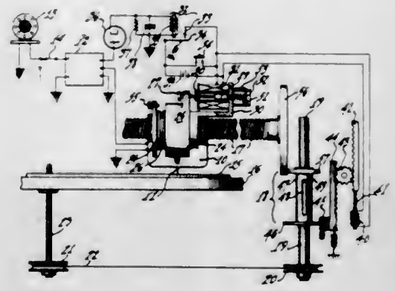
2. A communication system including a transmitter and a receiver, said transmitter comprising a plurality of devices subjected to the influence of the same sound field for producing different signals therefrom, respective network means utilizing each of said different signals for producing therefrom a pair of signals corresponding frequency components of which are displaced in phase by substantially the same angle, two sources of carrier waves of the same frequency and displaced in phase by said angle, means utilizing one of said pairs of signals and the waves from one source to produce an upper sideband related to said waves and the other pair of signals and the waves from the other source to produce a lower sideband related to said carrier waves, means in said receiver for processing said sidebands to produce another pair of signals each containing both signals with different phase relationship, and additive and subtractive means simultaneously for reproducing said different signals from said other pair of signals in said receiver.

2,611,037
DICTATING MACHINE WITH COMBINED HAND MICROPHONE AND CONTROL MEANS
Anthony C. De Napoli, Jr., Windsor, Conn., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application April 28, 1949, Serial No. 90,176
12 Claims. (Cl. 179—100.1)



1. In a phonographic apparatus, a dictating machine having a recording amplifier, a playback amplifier, and a record driving motor; a hand control instrument connected to said dictating machine by a cable, said instrument having a transducer unit, operable either to change sound energy to sound modulated electrical energy or to change sound modulated electrical energy to sound energy, a selector switch for connecting said transducer unit selectively to the input of said recording amplifier or to the output of said playback amplifier, a motor switch for controlling said motor, and a single manually-operable lever for actuating both of said switches.

2,611,038
SOUND RECORDER WITH SOUND-CONTROLLED STYLUS FEED
George K. Graham, Oceanside, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 30, 1946, Serial No. 665,924
8 Claims. (Cl. 179—100.4)



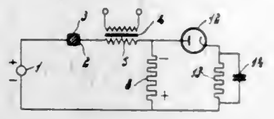
1. In a recording system, a recording head, a lead screw for feeding said head, and means responsive to high amplitude of vibrations to be recorded by said head for increasing the speed of rotation of said screw and for advancing said head with respect to its feed by said screw.

2,611,039

APPARATUS INCLUDING A TITANATE CONDENSER FOR AMPLIFYING AN ELECTRICAL SIGNAL

Gerard Hepp, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application May 3, 1947, Serial No. 745,877
In the Netherlands March 30, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 30, 1966
3 Claims. (Cl. 179—171)



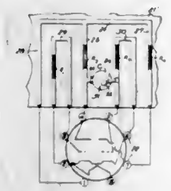
1. A signal amplifying circuit arrangement comprising, a source of desired signals having a given voltage polarization, a capacitive element having a dielectric selected from the group consisting of compounds of the ternary system of barium-titanate, strontium-titanate and lead-titanate, a source of auxiliary oscillations, means to apply said desired signals and said auxiliary oscillations to said capacitive element thereby to amplitude modulate said auxiliary oscillations, demodulation means to derive an output signal from the modulated auxiliary oscillations, said source of desired signals, said capacitive element and said demodulation means comprising a series circuit, and feedback means comprising a resistive element coupled in parallel with said demodulation means to apply a portion of said output signal to said capacitive element.

2,611,040

NONPLANAR PRINTED CIRCUITS AND STRUCTURAL UNIT

Cledo Brunetti, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of War

Application June 23, 1947, Serial No. 756,536
2 Claims. (Cl. 179—171)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



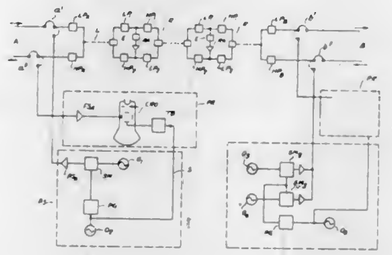
1. An electronic radio frequency amplifier comprising a twin triode electron valve having its elements housed in an evacuated non-conducting envelope, input and output circuit means for said valve, said input circuit means comprising a grid resistor printed on the outer surface of the envelope connecting the grid and cathode elements of one triode by means of conductive leads printed on said outer surface, said output circuit means comprising an anode resistor printed on said outer surface, one end of said anode resistor connected to the anode of said one triode by means of a conductive lead printed on said surface, the opposite end of said anode resistor being connected to a power lead printed on said surface, an input conductive lead printed on said surface and having one end thereof connected to the grid of said one triode, an output conductive lead printed on said surface and having one end thereof connected to the anode of the second triode, a resistance-capacitance coupling means consisting of a capacitor affixed to said surface and coupling the anode of said one triode with the grid of said second triode by means of conductive leads printed on said surface, a resistor and its leads printed on said surface and connecting the anode of said second triode with said power lead, a second resistor and its leads printed on said surface connecting the grid and cathode of said second triode, each of said conductive leads and elements constituting said circuits and coupling means being printed on said surface in spaced relationship to each other.

2,611,041

COMMUNICATION SYSTEM LINE FAULT LOCATING

William Henry Bernard Cooper, Middlesex, England

Application September 30, 1948, Serial No. 52,010
In Great Britain October 3, 1947
12 Claims. (Cl. 179—175.31)



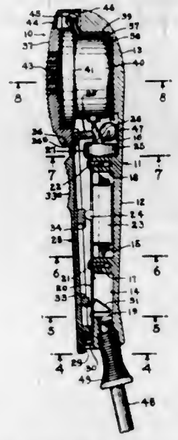
1. In a communication system and in combination attended stations, a plurality of unattended repeater stations separated from said attended stations and from each other, a transmission line joining said attended stations and said unattended stations, a tube amplifier at each of said unattended repeater stations, frequency selective paths at each of said unattended repeater stations arranged to direct signal currents at frequencies in a lower band to pass in one direction and signal currents at frequencies in an upper band to pass in the opposite direction along said line and through each of said unattended repeater stations, a pulse generator at an attended station, means at the said attended station for applying a pulse signal current from said generator at a determined frequency to said transmission line, frequency changing means, switching means for connecting said frequency changing means at will to said transmission line between a frequency selective path at an unattended repeater station and the next succeeding frequency selective path in the transmission line, a signal receiver at the last-mentioned attended station for receiving currents reflected from a fault located in said transmission line and amplified at said last-mentioned unattended repeater station to observe the time difference between the transmission of a pulse signal current and the reception of current reflected from the said fault.

2,611,042

COMBINED HAND MICROPHONE AND CONTROL MEANS

Anthony C. De Napoli, Jr., Windsor, Conn., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut

Original application April 28, 1949, Serial No. 90,176. Divided and this application September 19, 1950, Serial No. 185,549
7 Claims. (Cl. 179—178)



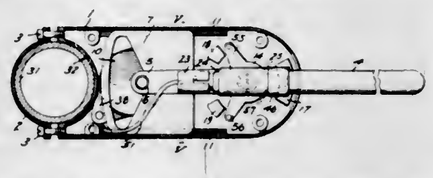
1. In a hand microphone instrument, a body member having a microphone unit and a pair of switches therein, a slidable and swingable actuating lever pivotally carried by said body member, said actuating lever comprising a nose at its upper end for operating one of said switches during sliding movement of said lever, and a centrally located lug for operating the other of said switches during swinging movement of said lever, whereby said switches may be controlled solely by operation of said lever.

2,611,043

SELF-CANCELING DIRECTIONAL SIGNAL SWITCH FOR MOTOR VEHICLES

Antoine Gazda, Providence, R. I.

Application January 13, 1950, Serial No. 138,439
9 Claims. (Cl. 200—35)



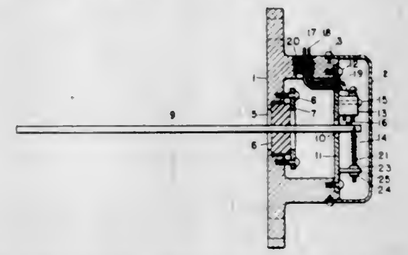
1. A self-cancelling directional signal switch for motor vehicles and the like comprising a casing, means for securing said casing to the steering column of a vehicle, a series of fixed contacts, a pivoted lever, a movable contact mounted upon said lever for selectively interconnecting said fixed contacts, a reciprocating cam plate movable by said lever, a rack operated by said cam plate and a spring actuated timing mechanism operated by said rack so that when said lever is pivoted circuits are established to the direction signals of the vehicle and said timing mechanism is energized to return said lever to neutral position after the lapse of a predetermined time interval and thereby break said circuits.

2,611,044

BIN LEVEL CONTROLLER

Karl O. Siemon, Westfield, N. J.

Application July 22, 1949, Serial No. 106,137
3 Claims. (Cl. 200—52)



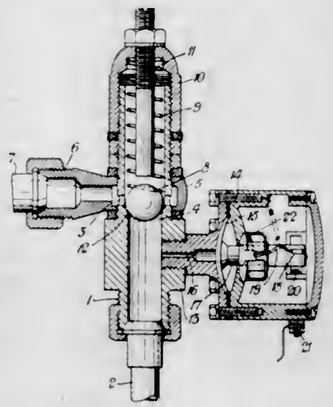
1. A level control mechanism for dry granular material, including a frame, a disk of rubber-like resilient material mounted concentrically over and covering a circular opening in said frame, a rod mounted in a central bore through said disk and protruding on opposite sides of the disk, one end of said rod protruding through said circular opening in said frame, a carrier plate supported on said frame, a switch mounted on said carrier plate and operable by deflection of said rod, a spring supported on said carrier plate and secured on said rod so as to restrain the deflection of the rod, and means of adjusting the force of said spring.

2,611,045

OIL PRESSURE OPERATED ELECTRIC SWITCH

Sidney Clifford Wayman, Darthill, March, England

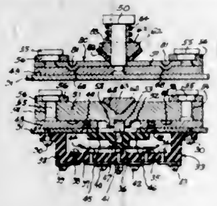
Application December 9, 1949, Serial No. 132,084
In Great Britain November 18, 1949
3 Claims. (Cl. 200—53)



2. A control device for the oil circulatory system of an internal combustion engine adapted to be inserted within the electrical circuit of said internal combustion engine and controlled by the pump supplying lubricating oil to said internal combustion engine comprising: an oil pressure chamber having a port adapted for connection with said circulatory system, a spring loaded ball valve normally closing said port, said valve being displaceable to provide fluid communication between said chamber and said port by oil pressure within said chamber, a switch housing, a flexible diaphragm peripherally joined

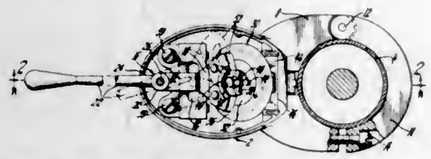
to the interior of said housing, defining an operating chamber on one side thereof, a conduit connecting said chamber with said operating chamber, a normally open switch interposed within said housing upon the other side of said diaphragm, said diaphragm being responsive at a pressure lower than that required to displace said ball valve, and means connecting said diaphragm with said electrical switch to close said switch on response by said diaphragm to the oil pressure within said chamber, said electrical switch being opened automatically on release of pressure on the said diaphragm.

2,611,046
VEHICLE TURN INDICATING SWITCH
Stuart L. Fuller, Royal Oak, Mich.
Application August 31, 1949, Serial No. 113,295
2 Claims. (Cl. 200—59)



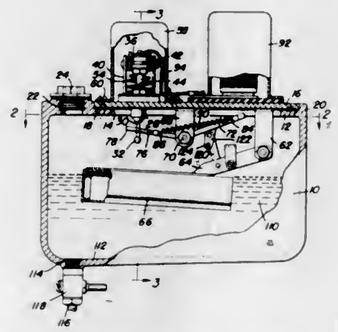
1. A manually-set vehicle turn indicating switch which is automatically reset to neutral position by a switch actuator on the steering shaft, said switch comprising a switch support mounted adjacent said actuator, a switch-resetting member pivotally mounted on said support, a pair of spaced dogs pivotally mounted on said switch-resetting member and movable therewith into and out of the path of travel of said switch actuator, a manual operating member connected to said switch-resetting member, a circuit breaker having its movable element operatively connected to said switch-resetting member, and a strain-relief connection including an interengaging projection and depression operated through said operating member and said switch-resetting member, said projection being disposed upon one of said members and said depression being disposed in the other of said members, said strain-relief connection also including a resilient element urging said projection into yielding engagement with said depression.

2,611,047
DIRECTION SIGNALING DEVICE
Edward L. Barcus, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 8, 1950, Serial No. 166,878
11 Claims. (Cl. 200—59)



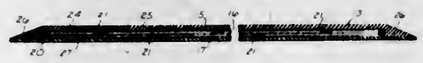
1. A direction signaling device comprising a support, a wheel pivotally and rotatably mounted on said support, a bushing pivotally mounted on said support adjacent said wheel, means for allowing relative rotation between said wheel and said bushing throughout a predetermined angular distance, an operating member pivotally mounted on said support, said member having a cam segment engaging said bushing for pivotally moving said wheel and bushing on said support and an electrical switch mounted on said support for actuation by said operating member.

2,611,048
BRAKE FLUID LEAK DETECTOR
Harry L. Reading, Flemington, N. J.
Application January 26, 1949, Serial No. 72,876
1 Claim. (Cl. 200—84)



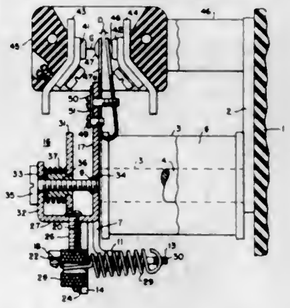
A float operated switch mechanism comprising a casing, a support mounted within the casing, first and second arms each having an inner end portion and an outer end portion, a pivot securing the inner end portions of the arms to the support, a spring terminally secured to the outer end portions of said arms and normally disposed above the pivot to retain the outer end portions of said arms raised above the pivot, a switch supported on said casing and including an operator rod, an insulating sleeve carried by the casing slidably receiving the rod, the outer end portion of said first arm being bifurcated and receiving the rod, a stop on the rod underlying the bifurcated end of said first arm, a second support within the casing, a float underlying the pivot, a strap secured to the float and including an inclined end portion, the inclined end portion of said strap being pivoted to the second support for swinging movement toward and away from the pivot, and a link connecting the inclined end portion of said strap to the second arm for lowering the outer end portion of the second arm in response to a lowering of the float within the casing.

2,611,049
ELECTRIC MAT SWITCH
Sheldon S. Roby, Meriden, Conn., assignor to The Stanley Works, New Britain, Conn., a corporation of Connecticut
Application August 22, 1950, Serial No. 180,800
6 Claims. (Cl. 200—86)



1. A switch of the floor mat type for controlling door actuating mechanisms and the like comprising three superposed generally parallel imperforate sheet metal plates, the upper two plates being sufficiently flexible and resilient to permit flexing responsive to predetermined operating pressures to effect engagement between at least two of said three plates, means normally separating the plates in said superposed parallel relationship comprising a plurality of spaced apart thin non-conducting elements disposed on each side of the intermediate plate, the elements between the bottom and intermediate plates being disposed in staggered relationship with respect to the elements between the intermediate and top plates, and means for forming one electrical connection with the intermediate plate and a second electrical connection jointly with the top and bottom plates.

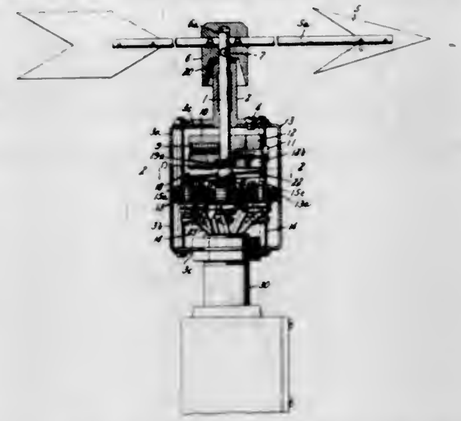
2,611,050
SWITCH
John C. Ponstingl, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application August 6, 1948, Serial No. 42,785. Divided and this application April 28, 1950, Serial No. 158,831
2 Claims. (Cl. 200—87)



1. A relay comprising, in combination, a coil, a core for said coil, an armature, a non-magnetic movable member supporting said armature adjacent said core for motion to and from said core, a pair of oppositely disposed stationary contacts, a resilient U-shaped member having contacts at the extremities of the sides thereof, means securing one side of said U-shaped member to said non-magnetic movable member with the contacts thereof disposed between said oppositely disposed stationary contacts, adjusting means connected between said non-magnetic movable member and the side of the U-shaped member remote from said non-magnetic movable member for adjustably biasing the side of said U-shaped member, remote from said non-magnetic movable member, towards and away from the side thereof secured to said non-magnetic movable member, for adjusting the spacing between said contacts at the extremities of the sides of the U-shaped member; and locking means connected with said adjusting means for releasably locking said adjusting means in preselected positions.

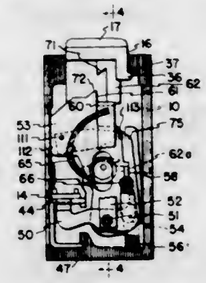
2,611,051
ROTARY CONTACTOR DEVICE
Peter van Santen Kolff, New Canaan, Conn.
Application October 4, 1951, Serial No. 249,650
16 Claims. (Cl. 200—87)

1. In an electrical contactor device, the combination comprising a contact disc of magnetic material mounted for displacement about a central axis, contacting means disposed along a contacting circle concentric with said axis adjacent the periphery of said disc, a rotatable magnet having the pole portions thereof arranged for movement along a circular path concentric with said axis adjacent the disc surface and circumferentially thereof, said disc being in a state of continuous attraction to said magnet poles, and means for rotating said magnet whereby to effect displacement of a progressively changing portion of the disc surface in the direction of



said magnet poles and a corresponding progressive contact between the periphery of said disc and the contacting means on said contacting circle.

2,611,052
SWITCH
Elwood T. Platz and Russell S. Davis, Detroit, Mich., assignors to BullDog Electric Products Company, Detroit, Mich., a corporation of West Virginia
Application January 25, 1947, Serial No. 724,430
2 Claims. (Cl. 200—88)



1. In a switch, a contactor, manually releasable latch means connected therewith, spring means for moving the contactor from circuit closing position when it is unlatched, a manually accessible and manually actuated means having a portion for releasing the latch means, a translator for operatively connecting the latch means and the manual means but only when the latch means is unlatched for enabling the manual means to relatch the latch means, the latch means and translator being interconnected so that unlatching movement acts to position the translator into a manual means engaging path and relatching movement acts to move it out of that path, and an operable electromagnetic means for unlatching said latch means, said translator having an aperture therein and being adjacent to and interposed between said latch means and said automatically operable electromagnetic means, said electromagnetic means including an electromagnet and a member actuatable by said electromagnet arranged opposite said translator aperture whereby said member

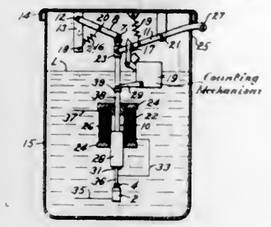
can act through the aperture to unlatch said latch means and initiate the operation of the switch to the open circuit position.

2,611,053

RECLOSING CIRCUIT BREAKER

James M. Wallace, East McKeesport, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 27, 1947, Serial No. 776,563
5 Claims. (Cl. 200—89)



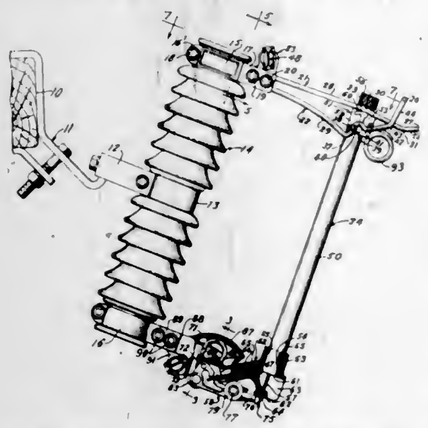
1. An automatic reclosing circuit breaker, comprising, separable contacts, means having a part movable in response to overloads a predetermined distance before causing separation of said contacts, means for automatically reclosing said contacts in response to a circuit interrupting operation, means for delaying movement of said part on at least one circuit interrupting operation, and inertia means yieldably mounted on said part for limited relative movement, so as to be responsive to predetermined acceleration of said part, due to the occurrence of an overload above a predetermined value, for decreasing the resistance of said delay means.

2,611,054

FUSED DROP-OUT CUTOUT

David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application April 20, 1949, Serial No. 88,519
6 Claims. (Cl. 200—114)



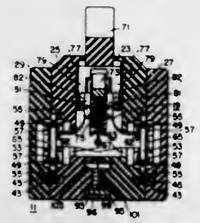
1. In a fused drop-out cut-out assembly, the combination of an insulating support with upper and lower contact arms, said lower contact arm having a forwardly and downwardly open hood with inwardly and downwardly extending side wall grooves inside the hood, a fuse tube unit comprising an insulating tube having upper and lower contact fixtures, said lower contact fixture having oppositely extending lower trunnions pivotally mounting said unit on said lower arm in said grooves, a fuse ejector lever pivotally mounted on said lower contact fixture, said lower trunnions being mounted on opposite sides of said lever below said pivotal mounting, spring means urging said ejector lever downward against the restraint of a cable and fuse in said tube, oppositely extending upper trunnions carried by said upper contact fixture and said upper contact arm having downwardly open recesses for retaining said upper trunnions and urging the unit downward, and an auxiliary upper contact arm engaging said upper fixture and urging said unit downward to relieve the strain on the upper contact arm and to assist in urging the unit downward when the fuse blows and the ejector lever pivots downward to move the unit downward to unlatch the upper trunnions from the recesses in the upper contact arm more quickly.

2,611,055

CIRCUIT INTERRUPTER

Benjamin C. Webster, Southport, Conn., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 27, 1949, Serial No. 117,970
18 Claims. (Cl. 200—116)



17. A circuit breaker comprising stationary contact means, cooperating movable contact means, operating mechanism including an actuator for moving said movable contact means to open and close said contacts, a trip device responsive to overload currents to effect automatic opening of said contact means, an insulating housing for said circuit breaker comprising a pair of separable members cooperating to form a main compartment for receiving and supporting said operating mechanism, a third separable member cooperating with one of said pair of separable members to form a second compartment for receiving and removably supporting said stationary contact means and said movable contact means, a projection on said actuator extending laterally into said second compartment and separably engaging said movable contact means for actuating said movable contact means upon operation of said actuator, and said movable contact means being removable without disengaging any connection with said operating mechanism.

2,611,056

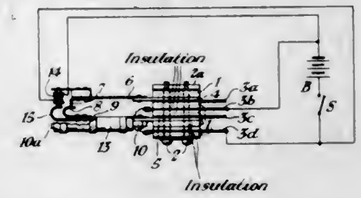
THERMAL RELAY

Arthur P. Jackel, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application December 30, 1949, Serial No. 135,876
3 Claims. (Cl. 200—122)

1. In a thermal relay, in combination, two cooperating thermally responsive members provided with electrical contacts, one of said thermally responsive members being provided with an energy transfer means that causes said one member to

be deflected and thereby operate said contacts in a given predetermined time interval in response to energization of said energy transfer means, said one member also being provided with an armature and the other thermally responsive member being provided with an electromagnet having salient poles which cooperate with said armature so as to oppose the operation of said electrical contacts in response to energization of said electromagnet, the parts of said thermal relay being so proportioned that when said electromagnet and said energy transfer means are ener-



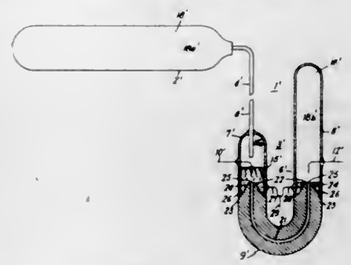
gized from the same source of current the forces set up by said electromagnet and said energy transfer means will cause said contacts to become operated in said given predetermined time interval irrespective of voltage variations of said current source, and said thermally responsive members being so disposed and having their parts so proportioned that the deflection of said members due to variations in ambient temperature will cause said electrical contacts as well as said electromagnet and cooperating armature to remain in a substantially constant relationship.

2,611,057

THERMALLY ACTUATED MERCURY SWITCH

John L. Slonneger, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application December 29, 1949, Serial No. 135,753
1 Claim. (Cl. 200—140)



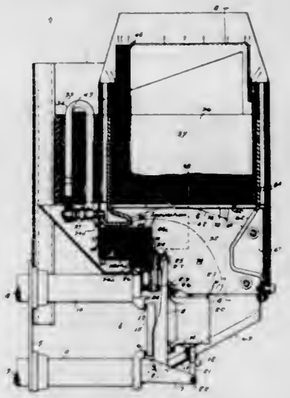
An electric switch responsive to temperature changes comprising, a U-shaped housing positioned with the leg portions thereof vertically disposed and with its bight portion at the bottom, a pair of gas chambers forming parts respectively of said leg portions, a capillary conduit in the said bight portion interconnecting said chambers, a pair of reservoirs within said chambers forming respectively portions thereof with each reservoir located adjacent the connection between said conduit and the chamber in which it is located, a quantity of electrically conductive liquid only partially filling said housing but of sufficient volume to more than fill both said reservoirs, an inert gas filling said housing above said liquid, a pair of electrodes extending through said housing respectively into said reservoirs, a second pair of electrodes extending through said housing above said reservoirs respectively in said two chambers, whereby an upper and a lower electrode are provided in each chamber, a predetermined increase in the pressure of the gas in a first of said chambers relative to the pressure of the gas in the second chamber produced by a change in the temperature of the gas in one of said chambers causing said liquid to flow through said capillary conduit from said first chamber to said second chamber whereby to raise the level of the liquid in said second chamber sufficiently to produce an electrical connection through said liquid between the upper and lower electrodes in said second chamber, and a predetermined inverse change in said relative pressure produced by an oppositely effective temperature change causing said liquid to flow from said second chamber to said first chamber whereby to raise the liquid level in said first chamber sufficiently to produce an electrical connection through said liquid between the electrodes in said first chamber, said chambers and the reservoirs therein being so constructed and arranged that all of the liquid in one chamber except that remaining in the reservoir may flow through said conduit from said one chamber to the other chamber and that upon such an occurrence gas flows from said one chamber through said conduit to the other chamber until the gas pressure in said one chamber is substantially equal to the gas pressure plus liquid head pressure in said other chamber.

2,611,058

CIRCUIT INTERRUPTER

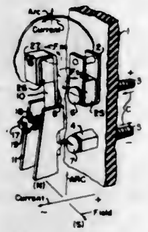
Herbert L. Rawlins, deceased, late of Pittsburgh, Pa., by Charlotte M. Rawlins, administratrix, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 12, 1950, Serial No. 179,066
6 Claims. (Cl. 200—144)



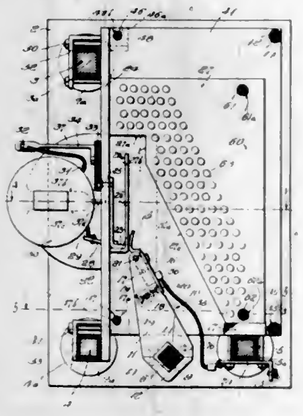
1. A circuit interrupter including means for establishing an arc, an arc chute for extinguishing the arc, restricting means disposed within the arc chute dividing it into a contact chamber and an arc-extinguishing chamber, the restricting means causing the arc to enter the arc-extinguishing chamber only near the current zero period, and the restricting means being composed of insulating material having an inverse temperature-resistance characteristic and effectively connected across the terminals of the interrupter to damp the high frequency transient voltage at the time of interruption.

2,611,059
ELECTRIC SWITCH WITH PERMANENT-MAGNET BLOWOUT FIELD
Ralph B. Immel, Williamsville, and Lawrence Pierce, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 7, 1950, Serial No. 172,522
3 Claims. (Cl. 200—147)



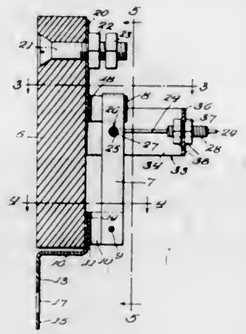
1. In an electric switching device, the combination including, a base of insulating material, a contact member stationarily mounted on the base, a stationary permanent magnet mounted substantially behind the stationary contact member and having respective north and south poles directed away from the base, a movable contact member having a U-shaped portion with two parallel legs and being engageable at the outside of one of said legs with said stationary contact member, a movable permanent magnet mounted on the U-shaped portion between the two legs of the U and having respective north and south poles directed toward the stationary permanent magnet, said two magnets having respective poles of like polarities substantially facing each other.

2,611,060
CIRCUIT CONTROLLING APPARATUS
Joseph F. Frese, Baltimore, Md., assignor to The Monitor Controller Company, Baltimore, Md., a corporation of Maryland
Application October 20, 1945, Serial No. 623,560
15 Claims. (Cl. 200—147)



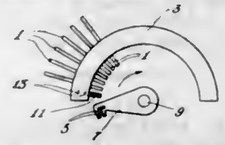
2. In a high voltage switch, a fixed contactor, a movable contactor coacting therewith, an insulated housing surrounding said contactors and open at the top and bottom thereof, an arm carrying said movable contactor and angularly shiftable within said housing for making and breaking electrical connections between said contactors, an arc runner connected with said fixed contactor and extending upwardly through said housing, a barrier of insulation material supported in spaced relation to the interior walls of said housing and projecting both above and below said contactors and said arc runner, spaced conductive members carried by said barrier and distributed both above and below said contactors and said runner and terminating adjacent the interior walls of said insulated housing, a magnetic blowout winding, magnetic means excited by said winding for directing the arc discharge at said contactors into said spaced conductive members, and inducing into said members currents establishing individual magnetic fields each operating to dissipate the arc discharge, said magnetic blowout winding and said magnetic means associated therewith being located on a substantially medial line extending transversely through said barrier, and a panel of insulation material forming part of said housing and extending normal to said barrier and separating said magnetic blowout winding from said contactors.

2,611,061
ELECTRIC SAFETY SWITCH
Paul B. Richardson and Hershel C. Richardson, Alexandria, Ind.
Application January 23, 1950, Serial No. 140,006
1 Claim. (Cl. 200—161)
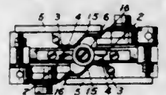


A switch comprising a base, switch means mounted on said base and including spaced contacts and a cooperating switch blade pivotally mounted at one end and movable in one direction to open the switch and movable in the other direction to close the switch, a U-shaped bracket extending perpendicularly from the base with the free ends of the side arms of the bracket secured to opposite sides of said base in the vicinity of the disengageable contact zone, said bracket straddling the contact zone and the pivoted switch blade with the closed end of the bracket disposed in the path of movement of the free swinging end of said switch blade, an elongated tubular armor secured at one end to and projecting within the closed end portion of said U-shaped bracket and projecting therein a limited distance to limit the swing range of switch blade movement, the other end of said armor being remote from said bracket, a push-and-pull wire slidably extending through said armor, one end of said wire projecting inwardly beyond said one end of said armor and extending in a substantially straight line perpendicular to the pivoted switch blade and connected thereto adjacent its free end, the other end of said wire having an operating handle disposed at said other end of said armor.

2,611,062
SWITCH
Johan Frederik van Meurs and Albertus Venema, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 29, 1949, Serial No. 90,436
In the Netherlands May 22, 1948
7 Claims. (Cl. 200—166)



1. A selector switch for automatic telephone systems, comprising a plurality of stationary switch contacts disposed in a predetermined path, each stationary contact being constituted by a member formed of a non-precious metal; an arm movable along said path and carrying a contact to engage the several stationary contacts; and a piece of precious metal so disposed in the path of movement of the contact on the movable arm as to cause the movable contact to wipe the piece of precious metal before moving on to engage the row of stationary contacts whereby the movable contact will rub off a small amount of the precious metal and transfer it to the surfaces of the stationary contacts.

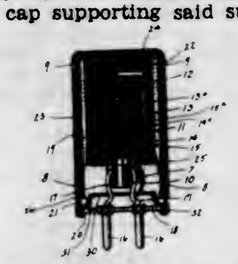
2,611,063
ELECTROMAGNETIC RELAY
Rupert Evan Howard Carpenter, South Croydon, England
Application August 28, 1950, Serial No. 181,903
In Great Britain September 2, 1949
14 Claims. (Cl. 200—166)



1. In an electric switch having a pair of cooperating contacts, one of which is mounted upon a movable support, the combination of an inertia member mounted upon said movable support and being movable with respect to said support under the impact of a sudden engagement of said contacts, means providing a frictional coupling between said inertia member and said support for applying frictional drag on said support by the relative movement of said inertia member upon sudden closing of said contacts, and resilient means interposed between said inertia member and said support and tending to limit said relative movement.

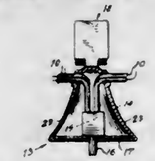
2,611,064
ELECTRONIC VIBRATOR INSULATOR
Elmer A. Wilson, Beech Grove, Ind.
Application November 9, 1949, Serial No. 126,369
3 Claims. (Cl. 200—168)

1. An enclosing casing for a vibratory interrupter which includes a stack, a supporting frame carried by said stack and having a driving magnet at its free end and a vibratory reed supported by said stack and oppositely disposed contact arms supported by said stack, said casing comprising a metallic cylindrical open bottomed shell and a solid, relatively thin walled rubber liner sock for said shell having longitudinally disposed spaced apart ribs on the outer surface of said liner contacting the inner surface of said shell, a resilient support for said vibrator and an insulating closure cap supporting said support and



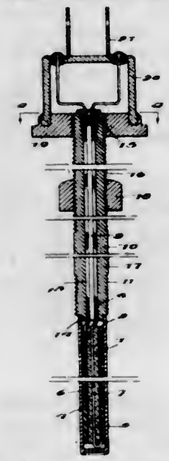
adapted to close the bottomed open end of said shell.

2,611,065
SWITCH DEVICE FOR CHRISTMAS TREE LIGHTS
Robert W. Adams and Clayton L. Taylor, Wheatridge, Colo.
Application February 14, 1950, Serial No. 144,108
1 Claim. (Cl. 200—168)



An electric switch for use in an electric circuit having a plurality of electric lamps connected in series therein, said switch comprising a switch body having spaced terminals and manual means for effecting electrical connection between the terminals and for breaking said connections, an outwardly and downwardly flaring shell enclosing said switch body, means for attaching the switch body to the shell so as to be partly concealed by the shell, and means for effecting a connection of the switch and shell to a stationary support comprising a spring clip.

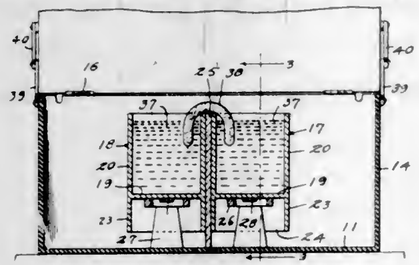
2,611,066
ELECTRIC HEAD BOLT HEATER FOR INTERNAL-COMBUSTION ENGINES
Andrew L. Freeman, Grand Forks, N. Dak.
Application January 12, 1951, Serial No. 205,662
4 Claims. (Cl. 219—19)



1. A heating device for internal combustion engines adapted to be inserted therein in lieu

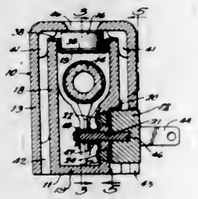
of a head bolt, comprising a metal sleeve having spaced threaded portions, an electric heating element secured on and extending from one end of the sleeve, a member fixedly secured on the other end of the sleeve, a nut threaded on the threaded portion adjacent such other end, electrical terminals carried by such member, lead-in connections connected to such element extending through the sleeve to such terminals, said terminals, heating element and connections being insulated from the sleeve.

2,611,067
ELECTRICAL COOKING DEVICE
Raymond E. Kennedy, New Salisbury, Ind.
Application September 10, 1951, Serial No. 245,949
2 Claims. (Cl. 219—19)



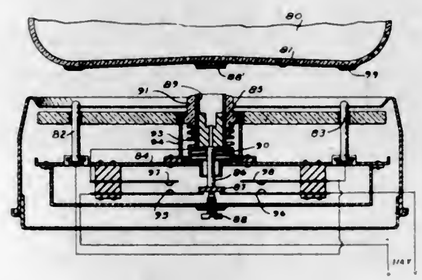
1. An electrical cooker comprising a housing formed of electrical insulating material, a lid hinged to said housing, an insulating partition disposed between a pair of walls of said housing, a pair of electrodes disposed one on each side of said partition, a pair of liquid holding receptacles one on each side of said partition, means comprising a horizontally disposed rectangular frame, legs supporting said frame, and means securing said electrodes in electrical association with the bottom of said frame for supporting said electrodes out of contact with the bottom of said housing, a pair of switch elements carried by said housing, means connecting said elements with said electrodes, a pair of complementary switch elements carried by said lid adapted to engage said first pair of switch elements when said lid is closed, and means connecting said second pair of switch elements with a source of electric current supply.

2,611,068
PIVOTALLY MOUNTED PLUG AND VAPORIZER
William H. Wellens, Chicago, Ill.
Application April 12, 1946, Serial No. 661,848
6 Claims. (Cl. 219—19)



6. An electrical device including a base member of insulating material, a tray for supporting vaporizable tablets, a pair of electrical contact strips carried by the base member, a heater element provided with a pair of extensions for supporting the heater element under the tray and for electrically connecting the heater element to the contact strips, a pair of screws carried by the base member for forcibly engaging the extensions with the contact strips, a pair of contacts electrically connected to each strip, a plug member of insulating material pivotally mounted on the base member, and a pair of contact prongs carried by the plug member and adapted to be received in a wall socket, one of the contact prongs engaging one of the contacts of one contact strip and the other contact prong engaging one of the contacts of the other contact strip.

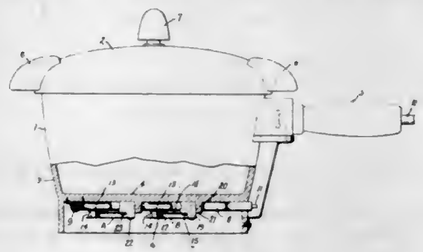
2,611,069
ELECTRIC APPLIANCE AND STAND ASSEMBLY THEREFOR
John F. Frazier, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application February 5, 1948, Serial No. 6,468
5 Claims. (Cl. 219—43)



5. In combination, an article of ware carrying an armature and also carrying an electric current heating element having exposed terminals, a support for said article having current supply electrodes for engagement by said terminals when the article is placed on said support, a movable permanent magnet associated with said support, means to normally hold said magnet in one position, means actuated by the article as it is placed on said support to disengage the magnet and enable it to be attracted to an alternative position toward said armature, and means under the influence of said magnet to automatically connect a source of electrical potential to said electrodes when said magnet is in such alternative position.

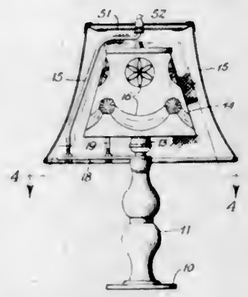
2,611,070
CONTROL FOR ELECTRICAL COOKING APPLIANCES
Irving R. Chandler, Brooklyn, N. Y., assignor to General Electric Company, a corporation of New York
Application October 19, 1949, Serial No. 122,188
1 Claim. (Cl. 219—44)

An automatic electric cooker comprising a vessel having a side wall and a bottom wall, an electric heating element mounted on and extending in a loop around the peripheral portion of said bottom wall, a normal cycling thermostatic switch positioned on the outer surface of said bottom wall at its outer edge where it is in physical proximity to a portion of the heating element to be sensitive to the heating element temperature, said thermostatic switch having a narrow temperature differential of operation from a circuit closed position when its temperature is slightly below a given cooking temperature to a circuit open position when above said cooking temperature, a second cycling thermostatic switch positioned on the outer surface of the bottom wall of the cooker at its center so as to be predominantly influenced by the temperature of the cooker and its contents, said second thermostatic switch also having a



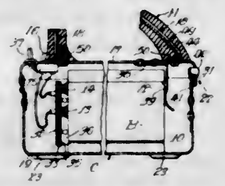
narrow temperature differential of operation from closed position to open position and in a range entirely below said given cooking temperature, and circuit means connecting said thermostatic switches in parallel circuit relation with each other and in series circuit relation with said heating element.

2,611,071
ELECTRIC LAMP HAVING A REVOLVABLE SHADE STRUCTURE
Joseph Palmieri, Buffalo, N. Y.
Application May 20, 1949, Serial No. 94,476
4 Claims. (Cl. 240—10.1)



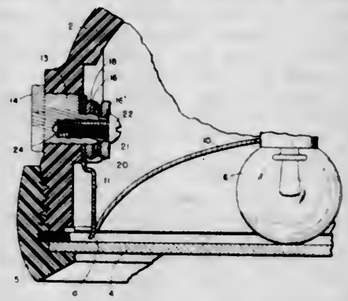
1. In a lamp having an electric bulb arranged in a socket on the upper end of a pedestal post, the combination therewith of a stationary outer shade surrounding said bulb, an arm extending laterally from one side only of said pedestal post and arranged above the lower edge of said outer shade, a revolvable inner shade surrounding said bulb and arranged within said outer shade, said inner shade bearing indicia viewable through said outer shade when said bulb is lit, an outer support rod arranged between said shades and mounted on said arm and extending upwardly therefrom, means connecting said outer shade to the upper end of said outer rod to hold said outer shade stationary, an inner rod arranged between said inner shade and lamp bulb and mounted on said arm and extending upwardly therefrom and terminating above said bulb, an end head on the upper end of said inner shade and having openings therein and vanes adjacent said openings whereby air heated by said bulb in escaping through said openings reacts against said vanes to effect rotation of said inner shade, and bearing means supporting said inner shade for rotation on the upper end of said inner rod.

2,611,072
ELECTRIC HAND LANTERN OF THE HORIZONTALLY ELONGATED TYPE
Gus G. Potekin, Chicago, Ill., assignor to Richberry Electric Co., Chicago, Ill., a copartnership
Application January 31, 1951, Serial No. 208,776
4 Claims. (Cl. 240—10.63)



1. A lantern comprising an open-top horizontally-elongated casing, an elongated cover fitted over the open-top of the casing and hingedly connected thereto at one end thereof to define therewith a normally-closed compartment, a latch releasably securing the free end of the cover to the opposite end of the casing, a pair of electrical contacts insulated from each other mounted within the casing for exposure toward the end thereof whereat the cover is latch-secured thereto for engagement with the terminals at one end of an elongated battery when rested upon the bottom of the casing within the compartment thereof, a leaf spring fixedly secured at one end to the under side of the cover and depending therefrom at a point relatively close to its latch-secured end and in position to engage the proximate battery end when the cover is closed thereby to maintain the battery in a fixed endwise position within the compartment where its terminals remain in pressure engagement with the contacts, and to disengage from the battery when the cover is opened thereby to free the battery for removal from the casing, a carrying handle upstanding from the cover, a lamp mounted thereon, and a switch carried by the cover upon its under side at a point adjacent its hinge-secured end and in circuit with the two contacts and the lamp.

2,611,073
REFLECTOR APPARATUS FOR MINERS' LAMPS
Grant Wheat, Marlboro, Mass., assignor to Koehler Manufacturing Company, Marlboro, Mass., a corporation of Massachusetts
Application June 30, 1949, Serial No. 102,327
5 Claims. (Cl. 240—44.1)



1. A miner's lamp comprising a headpiece provided with a lamp chamber, a light transmitting front plate closing the forward end of said chamber, spring means for resiliently supporting an electric lamp bulb in said chamber against

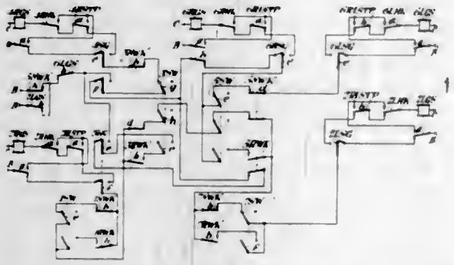
said front plate, a reflector associated with said bulb to reflect light from it through said front plate, means for supporting the reflector in a position such that the lamp is free to move relatively thereto, said reflector supporting means including a plurality of eccentric adjusting devices connected with said reflector and operable from points outside of said headpiece to adjust said reflector relatively to said bulb.

2,611,074

CENTRALIZED TRAFFIC CONTROL SYSTEM FOR THE CODE CONTROL OF INTERLOCKED SWITCHES AND SIGNALS

Frank T. Pascoe, Carnegie, and Arthur L. Jerome, Edgewood, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application June 2, 1947, Serial No. 751,908
5 Claims. (Cl. 246—3)



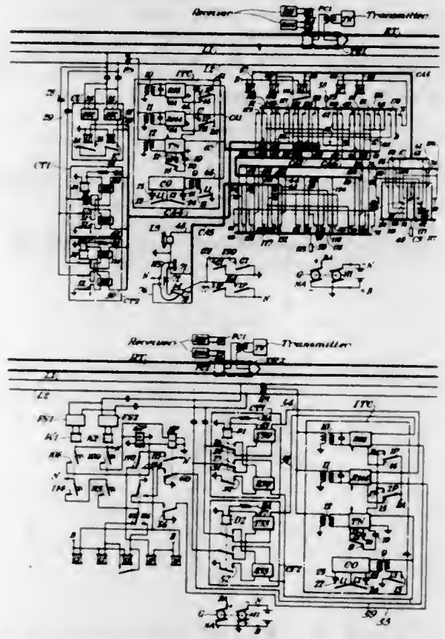
1. In combination with a railway track layout including electrically interlocked track switches and a first and a second signal governing movements over routes formed by the track switches, a first signal control relay governing said first signal, a second signal control relay governing said second signal, each of said signal control relays having contacts which normally occupy a first position in which they hold the associated signal at stop and are movable to an operated position in which they cause the signal to be controlled by traffic conditions in advance, a code type communication system including a field station for connecting said track layout with a remote control office, said code communication system acting during a single control code operating cycle to position both said first signal control relay and said second signal control relay in accordance with the condition of a first and a second control circuit, respectively, at said office and acting during indication code cycles to position switch indication relays at said office in accordance with the position of said switches, a first and a second signal lever at said office each having a stop and a clear position, a first and a second starting relay associated with said first and said second signal lever respectively, means associated with each signal lever for actuating the associated starting relay, means governed by each starting relay when actuated to cause said code communication system to transmit a control code to said field station, each such means being effective when the associated signal lever is in its clear position to initiate transmission of a control code when and only when the switch indication relays show that the switches establish a route for the signal governed by such lever, said first and second signal levers governing said first and second control circuits in such manner that each of said signal levers is effective when in its clear position to cause control codes transmitted by said code communication system to include an element for operating the corresponding signal control relay only if the switch indication relays show that the switches establish a route for the signal governed by said signal lever, and means for restoring each of said starting relays to normal in consequence of transmission of a control code to said field station, each of said restoring means being effective when the signal lever associated with said starting relay is in its clear position only if the switch indication relays show that the switches establish a route for the signal governed by said signal lever.

2,611,075

CARRIER INDUCTIVE COMMUNICATION SYSTEM FOR VEHICLES

Elbert W. Marlowe, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application April 24, 1947, Serial No. 743,681
6 Claims. (Cl. 246—8)



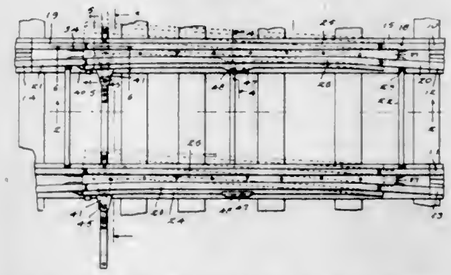
1. In a system for communication between an office and a vehicle moving over a stretch of trackway remote from the office, the combination comprising, an office, a stretch of trackway, a wayside station along the stretch, telephone equipment at the station, said equipment including a transmitter having a modulator and a receiver having a demodulator and which equipment uses a carrier of a given frequency for two-way transmission by electromagnetic induction on a push-to-talk basis, carrier telephone units one at the office and one at the station, each said unit including a transmitter having a modulator and a receiver having a demodulator and which units use a carrier of a frequency different from said given frequency, a line circuit between said office and station, each said unit having connections to selectively connect the output of its transmitter and the input of its receiver to said line circuit for two-way transmission between the office and station on a push-to-talk basis, said station unit having connections to couple the input of its transmitter and the output of its receiver to the output of the receiver and the input of the transmitter respectively of said station telephone equipment, a telephone set at said office having connections to the input of the transmitter and the output of the receiver of said office telephone unit; control means including a push-to-talk switch at the office, a line circuit between the office and station and control relays one at the office and one at the station; said relays being operated to different positions in response to operation of said push-to-talk switch, said office relay having contacts operable to govern said connections of said office unit to the first mentioned line circuit, and said station relay having contacts operable to govern said connections of said station unit to the first mentioned line circuit and to selectively activate the transmitter and receiver of said station telephone equipment.

2,611,076

RAILROAD SWITCH

George A. Swazey, Milo, Maine

Application June 19, 1950, Serial No. 169,010
1 Claim. (Cl. 246—446)



A railroad switch for interposing in a main rail line and between a pair of oppositely extending sidings comprising a pair of base members each formed of a base plate and a pair of spaced apart upstanding webs fixed to said plate, a pair of stub rails extending from the ends of said webs and fixed to said plate, one member of each pair of stub rails aligning with the main rail and the other member of said pair of stub rails aligning with an adjacent siding rail, a pair of carriers slidably engaging on the upper edges of said webs between said stub rails, a pair of spaced substantially parallel rail heads fixed to each carrier, said rail heads in one position of said carriers aligning said stub rails, each stub rail having an outwardly projecting slot in the inner end thereof within which said carrier slidably engages, means pivotally mounting said carriers at one end thereof between adjacent pairs of stub rails, a carrier shifting member engaging beneath said base plate, and means pivotally securing said shifting member to said carriers at the ends thereof opposite from said pivot means.

2,611,077

STEEL FROG TIE WITH SPECIAL CLIPS

Earl Edward Roecker, Easton, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

Application May 3, 1949, Serial No. 91,159
9 Claims. (Cl. 246—468)

1. The combination, with the main rails and turnout rails and the frog of a track turnout, of a metal tie extending beneath the curved turnout rail and the toe end of the frog, a second metal tie extending beneath the straight main rail and the heel end of the frog, spacer plates mounted on each tie and engaging opposite sides of the base of the frog, and a frog-engaging clip member mounted on each spacer plate, each of



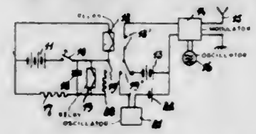
said spacer plates and clip members having beveled inner contact faces.

2,611,078

TELEGRAPH TRANSMITTER WITH AMPLITUDE-MODULATION

Herman Bernard Rudolf Boosman and Paul Zijlstra, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application June 30, 1948, Serial No. 36,184
In the Netherlands June 3, 1947
5 Claims. (Cl. 250—8)



3. In a radio-telegraph transmitter constituted by a radio-frequency power amplifier provided with an electron discharge output tube, and a modulator actuated by telegraph signals to render said amplifier operative accordingly, the telegraph signals being produced by means including a telegraph key connected in series with a direct-voltage source, the power consumed by said amplifier and the attendant temperature rise of said output tube depending on the time within a given period during which said key is closed: apparatus for preventing a temperature rise in said output tube beyond its maximum permissible value without interference to transmission, said apparatus comprising an integrating network defined by a capacitor in series with a resistance, means to connect said network across said serially-connected key and voltage source, said network having a time constant at which the voltage developed across said capacitor has an amplitude which varies in accordance with the temperature of said tube, and means responsive to an amplitude of voltage developed across said capacitor exceeding that amplitude corresponding to said maximum permissible value to periodically interrupt the actuation of said modulator thereby to limit the average power consumed by said amplifier to a level at which the temperature of said tube is at a permissible value.

2,611,079

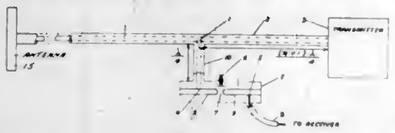
DUPLEXING DEVICE FOR TRANSCEIVER ANTENNA SYSTEMS

Arthur A. Varela and Robert A. Herring, Jr., Washington, D. C.

Application July 27, 1942, Serial No. 452,534
8 Claims. (Cl. 250—13)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

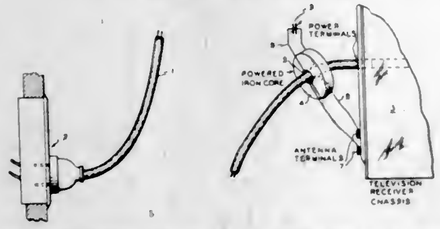
6. In a system having an antenna, a transmitter, a receiver and a transmission line coupling said transmitter to said antenna, means for cou-

pling said receiver to said antenna and for automatically decoupling said receiver from said antenna during operation of said transmitter, said means comprising coupling means between said transmission line and said receiver including a branch transmission line, a quarter wave length



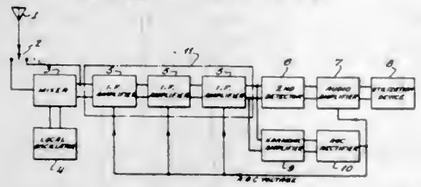
of concentric line having a metal conductor short circuiting each end thereof, a spark gap formed at the mid-point of the inner conductor of said line, input tap means located at a point along the axis of said line and means connecting said input tap means to said branch transmission line.

2,611,080
INDOOR TELEVISION ANTENNA
James R. Brough, Alexandria, Va., assignor to Melpar, Inc., Alexandria, Va.
Application April 20, 1950, Serial No. 157,137
2 Claims. (Cl. 250—16)



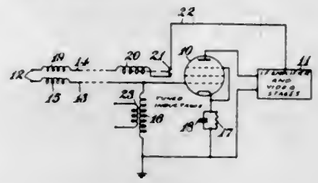
1. For coupling to a power cord of a television receiver having antenna terminals, a core member of relatively high permeability low-loss magnetic material at high radio frequencies, said core having an aperture through which said cord may extend, a first and a second winding linking said core member, means for adjustably tuning said first winding to a desired frequency, said second winding having output terminals for connection to said antenna terminals.

2,611,081
AUTOMATIC GAIN CONTROL SYSTEM
Benjamin F. Spencer, Garden City, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application November 22, 1948, Serial No. 61,361
4 Claims. (Cl. 250—20)



1. The combination of a band pass amplifier designed to provide substantially linear amplification of an amplitude modulated carrier signal of a selected frequency and to attenuate signals of all other frequencies, utilization means including an amplitude modulation detector, and means for directly applying said amplified signal with its modulation, without the introduction of amplitude distortion, to said amplitude modulation detector; means responsive to the output of said amplifier to produce and select a signal which is a single harmonic of said carrier frequency signal, and means responsive to the amplitude of said selected harmonic signal only to control the gain of said band pass amplifier.

2,611,082
AERIAL FOR VERY HIGH FREQUENCY RADIO RECEIVERS
Edward George Orme Anderson, West Wickham, Geoffrey Gordon Blundell, Ealing, London, and John Emyr Rhys-Jones, Iver, England, assignors to Scophony-Baird Limited, London, England, and The Plessey Company Limited, Ilford, England, both British companies
Application May 2, 1949, Serial No. 90,988
In Great Britain July 7, 1948
4 Claims. (Cl. 250—20)

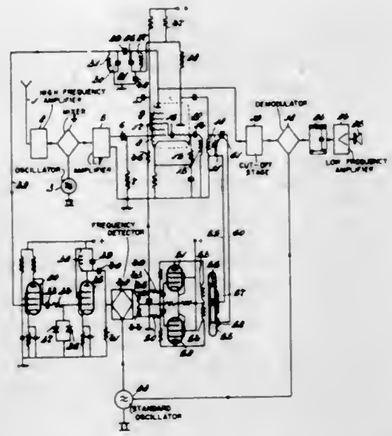


1. Radio receiving apparatus for operation from electric supply mains to receive very high frequency radio signals comprising a radio frequency receiver having an input circuit, an impedance matching device having input and output circuits, means connecting the input circuit of the matching device to the power supply mains, means connecting the output circuit of the matching device to the radio frequency input of the receiver, a power supply circuit for the receiver also connected to the output circuit of the matching device for drawing electric power from the supply mains through said matching device and means for preventing radio frequency signals from passing through said power supply circuit.

2,611,083
SUPERHETERODYNE RECEIVER
Jacobus Ludovicus Arends, Hilversum, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., trustee
Application October 7, 1949, Serial No. 120,143
In the Netherlands October 8, 1948
6 Claims. (Cl. 250—20)

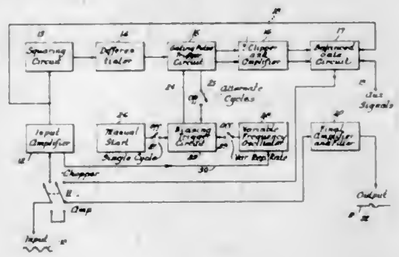
1. A superheterodyne receiver circuit arrangement, comprising a first electron discharge system having input and output circuit means, means to apply a received signal wave to the input circuit means of said first discharge system, a second electron discharge system having input and output circuit means, a resistance element interposed in both the output circuit means of said first and second discharge systems, means intercoupling the output and input circuit means of said second discharge system in regenerative relationship to produce a source of local oscillation, said source undergoing changes in the frequency thereof proportional to changes in potential applied to the said output circuit means thereof, means to apply said local oscillation to the input circuit means of said first discharge system to mix said received signal wave and said local oscillation thereby to produce in the output circuit means of said first discharge system an intermediate frequency wave having a

given frequency, a detector stage responsive to said intermediate frequency wave coupled to said output circuit means of said first electron discharge system, means to derive from said detector stage a direct control voltage proportional to variations in frequency of said intermediate frequency wave from said given frequency, and means to apply said control voltage to the input



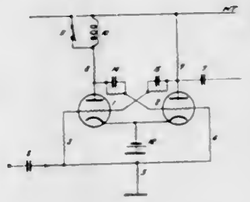
circuit means of said first discharge system to produce across said resistance element an amplified control voltage and to thereby apply said amplified control voltage to the output circuit means of said second discharge system to vary the frequency of said source in a direction suppressing said variations in frequency of said intermediate frequency wave from said given frequency.

2,611,084
ELECTRONIC WAVE CHOPPING CIRCUITS
Joseph W. Gratian, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application March 10, 1950, Serial No. 148,927
21 Claims. (Cl. 250—27)



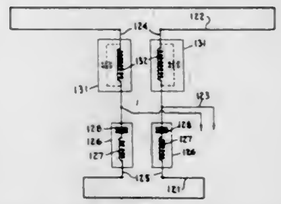
1. An electronic wave chopper comprising, a periodic wave source, means for deriving from said source a gating pulse having a time duration equal to a predetermined discrete time interval of said periodic wave, and signal transmission gating means controlled by said gating pulse for selecting a predetermined portion of said periodic wave.

2,611,085
FLIP-FLOP STAGE CONTROL CIRCUITS
Claude Marie Edmond Masson, Paris, France, assignor to Societe d'Electronique et d'Automatisme, Paris, France, a corporation of France
Application November 28, 1950, Serial No. 197,863
In France December 7, 1949
2 Claims. (Cl. 250—27)



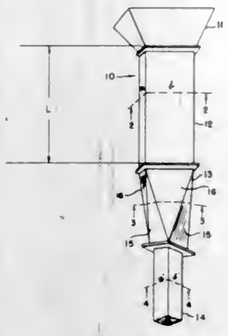
1. An electronic pulse operable circuit having a flip-flop stage with two conditions of stability said stage comprising two tubes each having at least three electrodes and time constant connections respectively from the plate of each of the two tubes to the grid of the other tube whereby one tube is conductive when the other tube is non-conductive and vice versa, one of said conditions of stability corresponding to a state of rest and the other condition of stability to an actuated state of said stage, and means for resetting said stage to said state of rest comprising an inductance with means to connect said inductance in the high voltage supply to the plate of said tube which is conductive when said flip-flop stage is in said actuated state, said inductance being of a value greater than the product of its self-capacity and the square of the internal resistance of said tube, and means for short circuiting said inductance.

2,611,086
ANTENNA SYSTEM
Ernest V. Amy, Atlantic Beach, and Julius G. Aceves, New York, N. Y., assignors to Amy, Aceves & King, Incorporated, New York, N. Y., a corporation of New York
Application June 6, 1947, Serial No. 753,018
16 Claims. (Cl. 250—33.53)



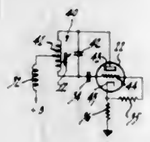
1. An antenna system comprising, a pair of separate dipoles respectively constructed and arranged to receive signals in a band of wave lengths, the bands being separated from each other, the dipoles being spaced with respect to each other, and means interconnecting said dipoles and including impedance means selected to have a maximum response at a frequency corresponding to substantially the mean wave length of one of said dipoles.

2,611,087
DEVICE FOR RADIATING CIRCULARLY POLARIZED WAVES
Andrew Alford, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War
Application January 29, 1946, Serial No. 644,175
6 Claims. (Cl. 250—33.63)



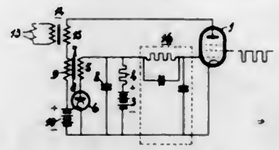
2. A device for obtaining a pair of electromagnetic waves polarized perpendicularly to one another comprising a first rectangular wave guide having both of its cross-sectional dimensions greater than a half wavelength of the energy to be radiated, a second rectangular wave guide for feeding said first wave guide, said second wave guide having its walls oriented at an oblique angle with respect to the walls of said first wave guide, and a transition portion coupling and matching said wave guides together, whereby plane polarized waves in said second wave guide are divided in said first wave guide into a first component polarized perpendicularly to one pair of opposite walls thereof and a second component polarized perpendicularly to the other pair of opposite walls thereof.

2,611,088
DIELECTRIC TUNING SYSTEM
Robert L. Harvey, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1948, Serial No. 36,071
13 Claims. (Cl. 250—36)



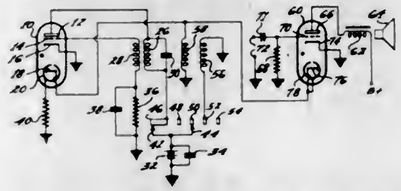
10. An ultra high frequency oscillation generator comprising a discharge device having a cathode, a control grid and an anode, an oscillatory circuit including a slotted cylinder of conducting material having two high impedance portions, one of said portions being connected to said anode, an impedance element for coupling the other one of said portions to said grid, a source of voltage connected between said cathode and said cylinder, and a core of high dielectric material movable with respect to said cylinder to vary the resonant frequency of said circuit.

2,611,089
CIRCUIT ARRANGEMENT FOR GENERATING SAW-TOOTH OSCILLATIONS
Josué Jean Philippe Valeton, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 2, 1948, Serial No. 41,928
In the Netherlands August 15, 1947
3 Claims. (Cl. 250—36)



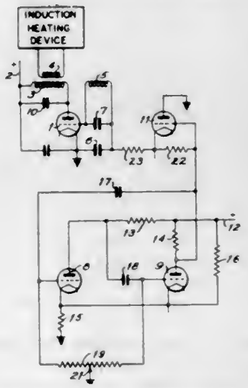
1. A sawtooth generator for a cathode-ray tube having deflection coils, said generator comprising an electron discharge tube having a cathode, a grid and an anode, a condenser connected in the cathode-grid path of said tube, an impedance, a voltage source connected in series with said impedance across said condenser in a polarity increasing the conductivity of said tube in the course of charging, a first transformer having a primary coil and a secondary coil and a ferro-magnetic core, a rectifier connected across said condenser in series with said secondary coil, a second transformer having a primary winding and a secondary winding, said secondary winding being adapted for connection to said deflection coils, an output circuit including means connecting said primary coil and said primary winding in the anode-cathode path of said tube in a direction at which the resultant voltage induced in said secondary coil maintains said rectifier non-conductive in the course of said charging, means to apply synchronizing pulses to said tube to decrease the conductivity thereof and thereby render said rectifier periodically conductive, whereby a sawtooth current flows in said output circuit, a phase-shifting network interposed between said condenser and said cathode-grid path to effect a phase displacement substantially equal and opposite to that caused by said second transformer, said first transformer having a characteristic at which during the last part of the sweep in said sawtooth current said core is magnetized to within the area of saturation.

2,611,090
PULSE OPERATED GASEOUS ELECTRON TUBE CIRCUITS
Irving Wolff, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 24, 1951, Serial No. 212,632
7 Claims. (Cl. 250—36)



1. The method of controlling a flow of electrons from an electron emitter to the electron collector electrode in a gas filled electron tube having a pair of emitter electrodes and a collector electrode, said method comprising the steps of impressing voltage pulses of amplitude sufficient to ionize the tube gas between said pair of electron emitter electrodes, impressing a separate potential between one of said emitter electrodes and said collector electrode, and impressing a variable control potential between one of said electron emitter electrodes and an electrode adjacent to said one electron emitter electrode.

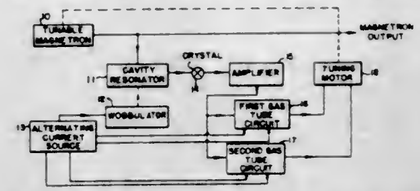
2,611,091
CONTROL SYSTEM
John R. Boykin, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 30, 1944, Serial No. 542,981
1 Claim. (Cl. 250—36)



In combination with an electrical discharge tube having an anode circuit, a control electrode circuit comprising an impedance in series with means coacting with said anode circuit to cause said tube to generate electrical oscillations, a generator of square-topped waves, a pair of resistors serially connected between the end of said impedance remote from the cathode of said electrical discharge tube and a point on the output circuit of said generator of square-topped waves, a second electrical discharge tube having an anode, a cathode and a control electrode, a connection between the last mentioned control electrode and said point, a connection between the cathode of said second electrical discharge tube and the common junction of said two resistors, and a connection from the cathode of the first-mentioned electrical discharge tube and the anode of said second electrical discharge tube, and to a variable tap on the output circuit of said generator of square-topped waves.

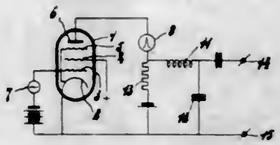
2,611,092
AUTOMATIC FREQUENCY CONTROL CIRCUIT
Louis D. Smullin, Arlington, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application January 3, 1946, Serial No. 638,885
6 Claims. (Cl. 250—36)

1. A cavity resonator-type, tunable magnetron oscillator operating at a first resonant frequency, reference cavity resonator means having a quiescent resonant frequency, coupled to said magnetron and having at least a portion of one wall thereof of a flexible material, a coil wound about a movable core which is mechanically coupled to the flexible wall, a source of constant magnetic field in the neighborhood of said coil and capable of influencing the coil, a source of alternating current coupled to said coil, whereby the resonant frequency of said reference cavity resonator means is varied periodically, a rectifying means coupled to said reference cavity resonator, an electric motor, a first multi-element gas tube connected between said source of alternating current and said electric motor, a second multi-element gas tube connected between said source of alternating current and said electric motor in an oppositely phased manner than the connection through said first gas tube, means coupling said source of alternating current to a control



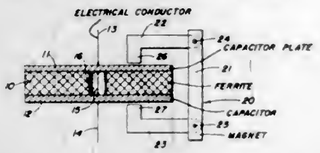
element of said first gas tube in an opposite phase than the coupling to the plate thereof, means coupling said source of alternating current to a control element of said second gas tube in an opposite phase than the coupling to the plate thereof, means coupling said rectifying means to said control elements, and means mechanically coupling said electric motor to said tunable magnetron oscillator, whereby said first resonant frequency is held in the neighborhood of the quiescent resonant frequency of said reference cavity resonator.

2,611,093
MIXING CIRCUIT
Johannes Marinus Lodevicus Janssen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 14, 1947, Serial No. 728,711
In the Netherlands September 2, 1944
5 Claims. (Cl. 250—36)



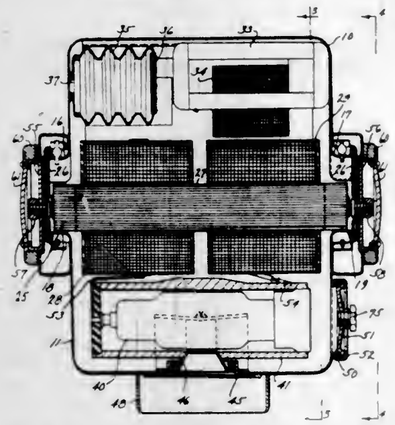
1. A circuit-arrangement for producing an output voltage, whose value is a function of the frequency relation existing between an oscillatory wave and one component in the harmonic spectrum of periodic voltage impulses, comprising an electron discharge tube provided with a cathode, a grid and an anode, a grid-cathode circuit for said tube, an anode-cathode circuit for said tube, an impedance network connected in the anode-cathode circuit of said tube, means to apply an oscillatory wave to the grid-cathode circuit of said tube, and means to apply periodic voltage impulses to said anode-cathode circuit to render said tube conductive solely during the occurrence of said impulses, said impulses having a duration which is short with respect to the interval between successive impulses, said network having a frequency response characteristic whose frequency width does not exceed the fundamental frequency of said impulses by which there is yielded an output voltage whose value is a function of the frequency relation existing between said wave and the most proximate component in said spectrum.

2,611,094
INDUCTANCE-CAPACITANCE RESONANCE CIRCUIT
Harold B. Rex, Falls Church, Va.
Application February 16, 1950, Serial No. 144,567
16 Claims. (Cl. 250—40)



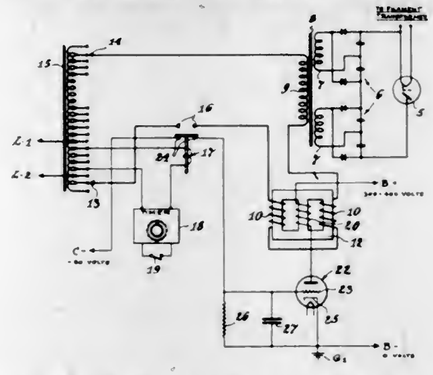
4. A capacitance and inductance circuit comprising a pair of condenser plates, a ferrite disk interposed therebetween, an electrically conducting connecting lead passing through a substantially central opening formed in said disk and affixed to said two condenser plates, and input means for said circuit connected to each of said plates, application of current to said input means causing said condenser plates and disk to function as a capacitor and said lead to function as an induction coil with said disk as its core, thereby providing a parallel capacitance and inductance circuit.

2,611,095
SHOCKPROOF HEAD FOR X-RAY APPARATUS
Edwin R. Goldfield, University Heights, and Edward B. Graves, South Euclid, Ohio, assignors to Picker X-Ray Corporation, Waite Manufacturing Division, Inc., Cleveland, Ohio, a corporation of Ohio
Application August 31, 1949, Serial No. 113,343
7 Claims. (Cl. 250—87)



1. An X-ray tube head comprising in combination, a transformer core of the shell type having a central leg, a pair of transformer coils positioned on said central leg, a pair of hollow sheet metal members each having an open end with outwardly extending marginal flanges adapted to bear in abutting relation against opposite marginal edges of said core, a band extending around the core respectively and means for sealing the band to the flanges so as to provide a leak proof housing, trunnion members attached to the band at opposite ends of the core, said housing sections each being substantially semi-elliptical in cross sectional shape and having chambers therein above and below said transformer coils, a tubular member within one of said chambers and adapted to receive an X-ray tube, and a filament transformer and an expansible bellows occupying the other of said chambers.

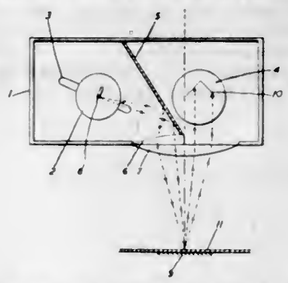
2,611,096
THERAPY X-RAY SYSTEM
Robert L. Wright, North Linthicum Heights, and Martin E. Hayes, Anne Arundel County, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 7, 1950, Serial No. 183,578
6 Claims. (Cl. 250—95)



1. A therapy X-ray system for gradually and smoothly applying full voltage to the tube comprising a therapy X-ray tube, a circuit for energizing said X-ray tube embodying a reactor provided with a saturable magnetic core and initially having a high impedance to decrease the voltage supplied to said X-ray tube, a saturating winding on said core, an electron discharge tube provided with a control electrode and operable when conducting to supply direct current to said saturating winding to decrease the impedance of said reactor, a circuit for supplying a biasing potential to the control electrode of said electron discharge tube to render the latter initially non-conductive and including energy storage means in shunt with said control electrode, and switching means operable to simultaneously cause closure of the energizing circuit for said X-ray tube and opening of the biasing circuit for said control electrode with an attendant momentary continued application of a biasing potential to said control electrode from said energy storage means which biasing potential gradually and smoothly decreases as the energy from said storage means dissipates, thereby rendering said electron discharge tube conductive with an accompanying flow of current to said saturating winding and causing a simultaneous decrease in the impedance of said reactor with an attendant gradual and smooth increase in the voltage supplied to said X-ray tube.

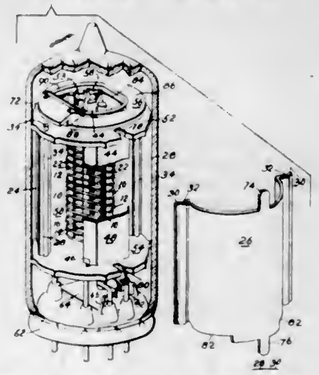
2,611,097
PHOTOELECTRIC CONTROLLED DEVICE FOR KNITTING MACHINES
William Ewart Stanley and Cyril Houghton Edwards, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application November 26, 1946, Serial No. 712,432
In Great Britain May 23, 1946
3 Claims. (Cl. 250—215)

1. In a stop or detector motion for a knitting machine comprising a photo-electric cell arranged to be traversed repeatedly across the fabric being formed on the machine and close to the line at which said fabric is being knitted, a first mirror on the opposite side of said fabric to said cell, means for directing light through said fabric to said first mirror and thence back through said fabric to said cell, and operative means controlled by said cell and adapted to give a warning indication of undue variation of the amount of light entering said cell by reason of faulty fabric, the improved construction which comprises a casing mounted for traversing repeatedly across



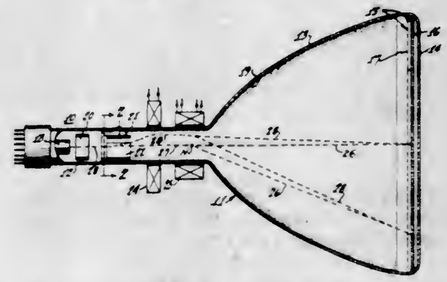
the fabric, said cell being mounted within said casing together with a small, well defined light source, a second mirror situated between said cell and said light source and a lens mounted on said casing and partly shielded from direct light from said light source, said first and second mirrors and said lens together forming an optical path between said light source and said cell whereby light from said light source forms an image in the vicinity of said fabric and is reflected by said first mirror back through said fabric to illuminate a substantial area of the cathode of said cell.

2,611,098
BEAM POWER TUBE
Alan C. Rockwood, Newton, Mass., and Harry D. Felsenthal, Camarillo, Calif., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application June 27, 1950, Serial No. 170,528
13 Claims. (Cl. 313—69)



1. A beam power tube comprising an envelope, and an anode, a cathode, grids, and spacers positioning said cathode and grids in said envelope, said anode including a first and a second flanged sections, said first section having tabs fastened to said spacers, said second section being unattached to said spacers and being arranged to fasten to said first section at said flanges, thereby permitting full length visual inspection and alignment of said grids during assembly of said electron tube.

2,611,099
COLOR TELEVISION PICTURE TUBE
Dietrich A. Jenny, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 27, 1950, Serial No. 170,573
9 Claims. (Cl. 313—77)



1. A color television picture tube comprising: an evacuated envelope containing a screen having an instantaneous color-response characteristic to bombardment by electrons which is different for each of a number of different directions of convergence thereof upon the screen; an electron gun for projecting electrons toward said screen with their mean axis extending along a predetermined path in an initial portion thereof; and color switching means including as many individual deflection means as the number of said different convergent directions, each of the individual means being effective in a region near the end of said initial portion of said path to deflect electrons, which are moving therealong, in a respective one of at least three different predetermined outward radial directions with respect to said path each of which corresponds to a respective one of said directions of convergence.

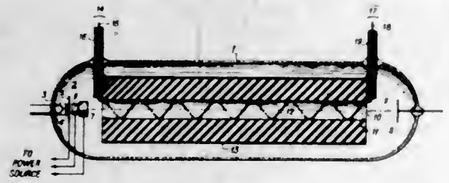
2,611,100
TEMPERATURE-COMPENSATED TARGET ASSEMBLY FOR COLOR-KINESCOPES, ETC.
Richard D. Faulkner and William A. Bentley, Lancaster, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application December 5, 1950, Serial No. 199,252
7 Claims. (Cl. 313—92)



1. A temperature-compensated target and frame assembly for use in an electron-discharge device, said assembly comprising, a foundation

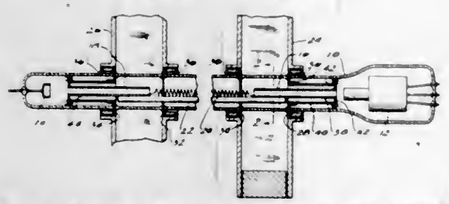
plate having an electron-sensitive target surface, a frame for said plate, said plate and said frame being constituted of materials having different coefficients of expansion, mounting elements carried by said frame in a position to engage discrete edge portions of said plate, a resilient refractory material disposed adjacent to said discrete edge portions of said plate, and means for exerting clamping force upon said plate through said mounting elements and resilient material, whereby to permit of a limited degree of relative movement between said frame and plate when said assembly is subjected to changes in temperature.

2,611,101
TRAVELING WAVE AMPLIFIER TUBE
Richard Wallauschek, Marly Le Roi, France
Application April 13, 1948, Serial No. 20,667
In France April 15, 1947
6 Claims. (Cl. 315—3)



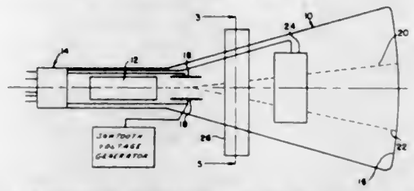
1. An ultra high frequency traveling wave amplifier tube comprising an evacuated envelope having therein an electron gun at one end providing a cylindrical electron beam traveling with a predetermined velocity, a collector electrode located at the opposite end to receive said electron beam, a cylindrical member of dielectric material coaxial with said electron beam, and a low velocity of propagation line having input terminals to receive ultra high frequency energy and output terminals to deliver amplified ultra high frequency energy, said line including a thin conductive coating on the exterior surface of said cylindrical member to provide an external conductor, and a thin conductive coating contacting the interior surface of said cylindrical member and in the form of a helix to provide an internal conductor, the helical form of said internal conductor having a pitch operative to produce a propagation velocity of the electromagnetic wave traveling along said line substantially equal to said predetermined velocity of the electron beam.

2,611,102
TRAVELING WAVE TUBE
Paul G. Bohlke, Flushing, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application November 13, 1948, Serial No. 59,878
7 Claims. (Cl. 315—3)



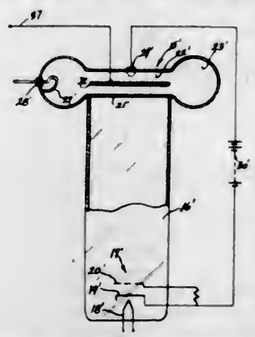
6. A traveling-wave tube comprising a generally tubular glass envelope, means for projecting an electron beam axially within said tube, wave transmission means including a helical conductor substantially coaxial with said tube, plural metal rings sealed through said envelope at axially spaced points, and low-loss insulating means confined radially between said rings and said helical conductor, said insulating means extending along the helical conductor and providing an aligning support therefor.

2,611,103
STANDING WAVE RATIO INDICATOR
Arthur V. Hollenberg, St. Albans, N. Y., assignor to the United States of America as represented by the Secretary of War
Application January 17, 1946, Serial No. 641,835
2 Claims. (Cl. 315—3)



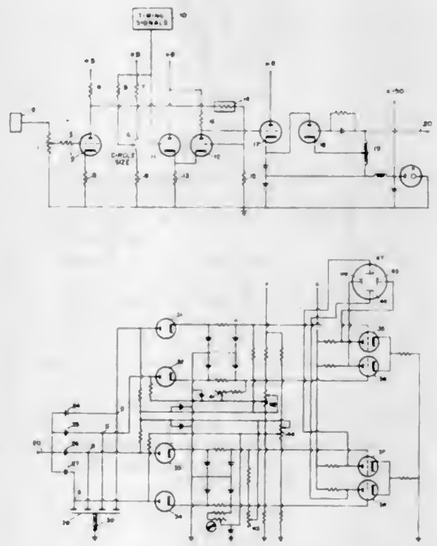
1. A standing wave ratio indicator, comprising an electron discharge device including an electron gun generating a beam of electrons along a first coordinate, first deflection means for periodically deflecting said beam along a second coordinate perpendicular to said first coordinate, an electromagnetic wave transmission means providing a standing wave pattern in the path of said periodically deflected beam and having an elongated aperture, the long dimension of said aperture being parallel to said second coordinate, and said aperture being positioned to permit passage of said periodically deflected electron beam through said means, whereby the electrons in said periodically deflected beam may be velocity modulated in accordance with said standing wave pattern, second deflection means providing a constant deflection field for deflecting said beam along a third coordinate perpendicular to both said first and second coordinates, said second deflection means being disposed along said beam, said transmission means being disposed between said first and second deflection means, and a fluorescent screen disposed in the path of said beam after it has passed through both said deflection means.

2,611,104
MICROWAVE TUBE
Martin Ruderfer, Brooklyn, N. Y.
Application October 21, 1949, Serial No. 122,614
3 Claims. (Cl. 315—5)



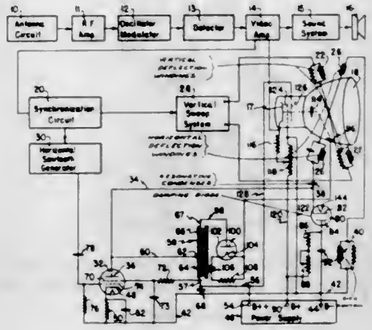
1. An envelope, means within said envelope to emit a stream of charged particles in a path in a given direction within the envelope, a plate positioned across the path of said stream, having the characteristic that it emits secondary electrons from its surface facing said means; such surface of the plate being of a material which aids such emission, a grid positioned across said path between said means and the plate and spaced from said plate, electrically continuous walls at least in part electrically conductive, electrically connecting the plate and grid and forming therewith an unobstructed cavity resonator in extension of, communicative with and including the space between said grid and plate and means carried by the envelope to conduct electromagnetic energy occurring within said cavity resonator, to a point exterior the cavity resonator.

2,611,105
DEFLECTION CIRCUIT FOR CATHODE-RAY OSCILLOGRAPHS
Mark Nadir, New York, N. Y., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application November 1, 1950, Serial No. 193,377
2 Claims. (Cl. 315—24)



1. In a cathode ray oscillograph, a cathode ray tube, a mixer circuit, source of signals connected to said mixer circuit, a source of timing signals connected to said mixer circuit, and a source of unidirectional potential adjustable in magnitude also connected to said mixer circuit, a modulator tube, a radio frequency oscillator, the output of said mixer circuit being connected to said modulator tube to modulate said oscillator, a cyclically variable capacitive voltage divider, the output of said oscillator being connected to said voltage divider producing four output voltages with a ninety degree phase relation existing therebetween, a rectifier connected to said voltage divider, an amplifier connected to said rectifier and to the four deflection plates of said cathode ray tube to cause the beam thereof to describe a circular trace on the screen thereof, the radius of said circular trace being variable in accordance with said adjustable potential to provide a circular base line, said signals and said timing signals each producing a change in said radius.

2,611,106
TELEVISION SWEEP SYSTEM
George W. Fyler, Lombard, and Robert M. Crooker, Chicago, Ill., assignors to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application July 20, 1949, Serial No. 105,844
16 Claims. (Cl. 315—27)

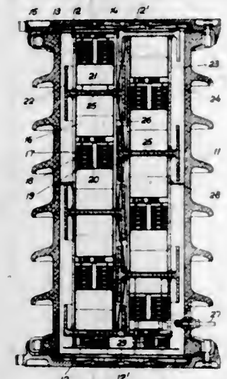


1. A television sweep system for energizing electromagnetic deflection coils associated with a television picture tube and for providing a high potential for the anode of the picture tube including in combination, a direct current power supply including first and second terminals which provide potentials positive with respect to a reference potential, a power tube having at least a cathode, a plate and a grid, means for applying a sawtooth voltage wave between said cathode and said grid of said power tube, a high impedance choke having an intermediate tap thereon, means connecting a portion of said choke between said first terminal of said power supply and said plate of said power tube for applying a positive potential thereto, means connecting said deflection coils to said intermediate tap on said choke, a damper tube having a cathode connected to said tap on said choke and a plate coupled to said second terminal of said power supply for applying energy from said power supply to said power tube, and rectifier means coupled to said choke and to said anode of said picture tube for providing a high direct current voltage for said anode of said picture tube.

2,611,107
ELECTRIC LIGHTNING ARRESTER
Gösta Rydbeck, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application June 21, 1951, Serial No. 232,699
In Sweden September 24, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires September 24, 1961
8 Claims. (Cl. 315—36)

1. A lightning arrester comprising a plurality of parallel columns of elements, one of said columns containing at least spark gaps and another containing at least voltage dependent resistances, insulating members separating elements of said columns, said members having on both sides layers of conducting material, means connecting elements of the columns in a series connection which includes alternately at least one spark gap and at least one resistance at adjacent levels in said columns, said layers being connected at spaced points of said series connection, and the series connection extending from one side of one of the members of a first column to a second column and back to the other side of said

member through at least one element of the second column, whereby said member and the layers

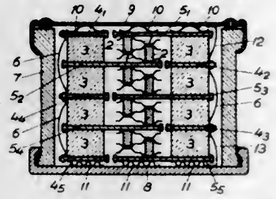


thereon constitute a condenser connected in parallel with such element of the second column.

2,611,108
ELECTRICAL LIGHTNING ARRESTER

Gösta Rydbeck, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation

Application September 25, 1947, Serial No. 776,100
In Sweden September 24, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires September 24, 1961
6 Claims. (Cl. 315—36)

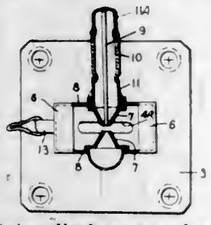


1. A lightning arrester, comprising voltage dependent resistances, series-connected groups of arc gaps in series with said resistances, said resistances and arc gaps being disposed in columns arranged side by side, and condenser elements connected in parallel with said groups of gaps and resistances, said condenser elements consisting of insulating sheets having metal coatings on both sides providing electrical connection between the columns.

2,611,109
ELECTRIC DISCHARGE TUBE

Ezio Thomas Casellini, Salem, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application June 29, 1948, Serial No. 35,905
10 Claims. (Cl. 315—39)

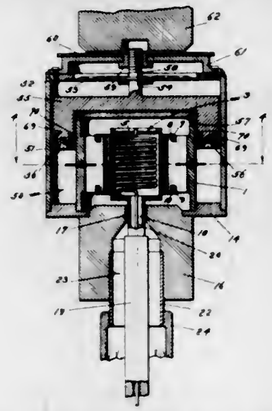


1. An electric discharge tube containing a quenching gas which tends to be removed by reaction with impurities in the tube, and a chemical compound which combines with the product of said reaction to release the quenching gas therefrom.

2,611,110
ELECTRONIC DISCHARGE DEVICE OF THE CAVITY RESONATOR TYPE

Donald M. Powers, Boston, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application April 19, 1944, Serial No. 532,012
9 Claims. (Cl. 315—40)

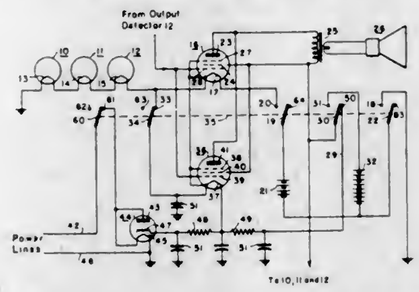


1. A high frequency oscillator comprising an electron discharge tube having a plurality of oscillatory chambers therein, a cavity resonator adapted to be excited by said oscillatory chambers, a plurality of said oscillatory chambers being coupled directly to said cavity resonator at a plurality of points spaced along the length of said cavity resonator, said resonator incorporating adjustable means for shifting the position of the standing wave pattern established therein by said excitation, said resonator having a substantially rectangular cross-section with a dimension axially of said resonator greater than the width thereof, and means coupled to said resonator for adjusting said axial dimension for tuning said oscillator.

2,611,111
RADIO APPARATUS

Gilbert C. Larson, Sunbury, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 3, 1950, Serial No. 142,287
8 Claims. (Cl. 315—96)

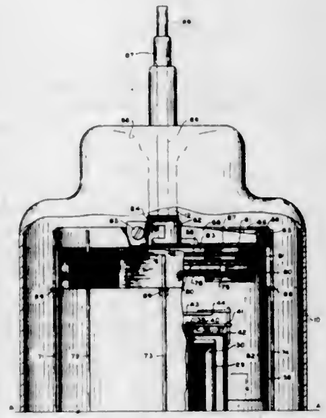


1. Electronic apparatus comprising a plurality of electron tubes having filaments connected in series, a battery, a first output electron tube having a filament, means including a first switch operable for connecting said first-mentioned filaments and said filament of said output tube in series with said battery, a second outupt electron tube having a filament, a rectifier circuit, and means including a second switch operable for connecting said first-mentioned filaments and said filament of said second output tube in series to said rectifier circuit.

2,611,112
THREE-ELEMENT THERMIONIC TUBE STRUCTURE

Herman K. Kuthe, Neshanic, and Richard H. Bloemeke, Nutley, N. J., assignors to the United States of America as represented by the Secretary of the Army

Application November 14, 1949, Serial No. 127,122
13 Claims. (Cl. 315—99)

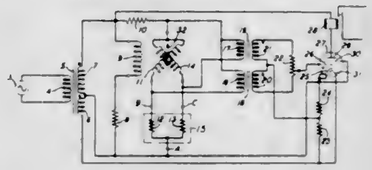


1. A thermionic tube comprising a glass vessel having top and bottom re-entrant seals, an anode supported by said top seal, a centrally mounted hollow cylindrical cathode supported by said bottom seal, an electron-emitting layer on the inner surface of said cathode, first and second sets of heater coils centrally mounted in spaced relationship with respect to inner surface of said cylindrical cathode and the electron-emitting surface of said cathode, said first and second sets of coils forming a heating element in the shape of a hollow cylinder in concentric relationship with respect to the said cathode, the coils of said first and second sets being alternately spaced, a common conductor connecting a given end of each of said heater coils to said cathode, a source of potential connected with its one terminal to the other end of each coil of said first set of coils and with its other terminal to the other end of each coil of said second set of coils whereby the surface of said heater element represents a substantially electrically neutral surface with respect to the electron-emitting layer of said cathode, a cylindrical grid surrounding said anode and said cathode, said grid being mounted on said top seal, a support rigidly mounted on the bottom seal and having a sliding mechanical engagement with a portion of said grid for laterally bracing said grid with the aid of said bottom seal and said support.

2,611,113
ELECTROLYTE INDICATING AND CONTROL APPARATUS

Phillip J. Cade, Winchester, and Donald J. MacDougall, Framingham, Mass., assignors to Photoswitch Marine Division, Inc., New York, N. Y., a corporation of New York

Application February 2, 1951, Serial No. 209,157
7 Claims. (Cl. 315—274)



1. Apparatus responsive to changes in liquid electrolyte concentration, comprising a temperature-compensating conductivity cell including a compensating impedance element and a pair of basic electrodes, an alternating-current potential source, a first impedance element and a second impedance element, said basic electrodes being connected to said alternating-current potential source through said first impedance element, said compensating impedance element being connected to said alternating-current potential source through said second impedance element, a plurality of transformers each having primary and secondary windings, said primary windings being connected to said first and second impedance elements and said secondary windings being connected to one another so that the total potential across said secondary windings is responsive to the sum of the potentials across said first and second impedance elements, a third impedance element including an adjustable tap thereon connected across said secondary windings, and a gaseous discharge tube including a control space path and a main space path, said control space path being connected to said adjustable tap and the junction of said secondary windings whereby a predetermined positioning of said adjustable tap will break down said main space path when said basic electrodes are immersed in a liquid having an excessive electrolyte concentration.

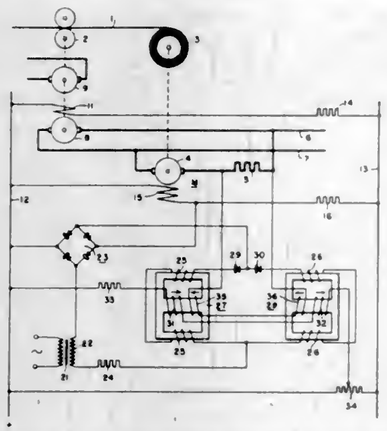
2,611,114
CORE TYPE REEL DRIVE

Martin H. Fisher, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 15, 1950, Serial No. 156,069
5 Claims. (Cl. 318—6)

1. A core-type reel drive, comprising a direct-current drive motor having an armature circuit and a field winding, adjustable-voltage supply means connected to said armature circuit for energizing it in accordance with the desired linear reeling speed, constant-voltage supply means, a resistor series-connected with said field winding across said constant-voltage supply means to provide said field winding with component constant excitation, alternating-current supply means, a rectifier and controllable saturable reactor means series-connected with each other across said alternating-current supply means and having a rectifier output circuit connected in parallel relation to said field winding and in series relation to said resistor and poled to provide said field winding with variable component excitation cumulative to said constant component excita-

tion, said reactor means having control means connected with said armature circuit for regulat-



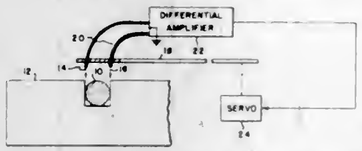
ing said variable component excitation in dependence upon the current in said armature circuit.

2,611,115

AUTOMATIC CURVE FOLLOWER

Lawrence H. Johnston, Sandoval County, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application October 26, 1945, Serial No. 624,910
1 Claim. (Cl. 318—31)



A curve-following device comprising alternating current signal means, a dielectric disc mounted for rotation about a normal axis thereof, electrical conducting means energized by said signal means and affixed to said disc in such a manner as to represent a desired curve, means for rotating said disc about said axis at a constant rate, differential amplifier means, a support, first and second probe means mounted on said support and connected to said amplifier means, said first and second probe means electrostatically coupled to said conducting means, means connected to the output of said amplifier and mechanically coupled to said support so as to move said support in accordance with said amplifier output thereby causing the probe means to follow the desired curve.

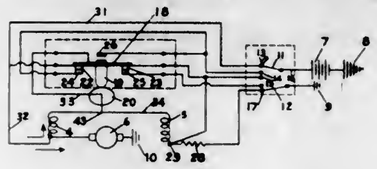
2,611,116

PARKING CONTROL FOR WINDSHIELD WIPERS

Edward Latta, Owosso, and Adolph J. Woltanski, Henderson, Mich., assignors to Redmond Company, Inc., Owosso, Mich., a corporation of Michigan

Application January 6, 1950, Serial No. 137,204
3 Claims. (Cl. 318—275)

1. In a windshield wiper mechanism, a wiper-connected member adapted and arranged normally to be driven to and from a predetermined position corresponding to a parking position of the wiper through repeating cycles during performance of successive wiper operations, a reversible electric motor having armature and field windings, an armature carrying said armature windings, said armature being drivably connected to said member, a source of current, manual switch means having at least one "on" position and an "off" position, automatic switch means including a pair of reciprocating contact elements movable to circuit-making and breaking positions successively during each of said cycles, means responsive to shifting said manual switch means to "on" position to cause current to flow from said source to said armature and field windings, independently of said reciprocating contact elements, means responsive to shifting said manual switch means to "off" po-



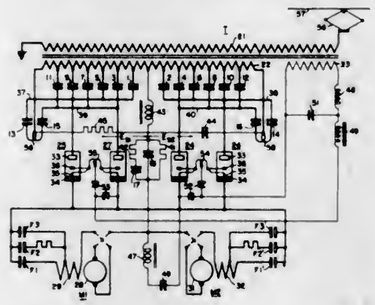
sition to maintain current flow from said source to said armature and field windings, but by way of one of said reciprocating contact elements, and only until the next succeeding circuit-breaking movement thereof, and means responsive to the next succeeding circuit-making movement of the second of said pair of reciprocating contact elements to establish current flow from said source to a portion of said field windings in a direction opposite to that normally prevailing, and thence to said armature winding in series fashion, to thereby create a reverse torque effect sufficient to produce an actual reversal of the direction of rotation of said motor, which reverse rotation quickly returns said second reciprocating contact element to circuit-breaking position and thereby produces a complete cessation of current flow to said motor.

2,611,117

CONTROL SYSTEM FOR ELECTRICALLY-OPERATED VEHICLES

Lloyd J. Hibbard, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 19, 1949, Serial No. 88,285
15 Claims. (Cl. 318—414)



1. In a control system for a vehicle, in combination, a plurality of motors for propelling the vehicle, a transformer having a primary winding and a secondary winding, said secondary winding having a midtap and end taps thereon, a plurality of rectifiers for supplying rectified current to the

motors, a plurality of tap-changing switches for connecting the rectifiers to said secondary winding, said switches being divided into two groups with two buses for each group, alternate switches of each group being connected to the same bus, one of said rectifiers being connected to each one of said buses, a pair of switches for connecting each end tap to two of said buses, and a balance coil for each pair of switches.

2,611,118

TRICKLE CHARGER

Howard T. Havlick, Erieside, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia

Application November 22, 1947, Serial No. 787,559
1 Claim. (Cl. 321—8)



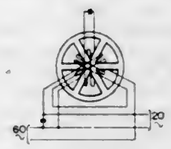
A storage battery charger adapted to be directly connected to a source of alternating current without the use of a transformer and to charge a single battery or a plurality of batteries connected in series, the said charger comprising two filament type lamp bulbs, a pair of input leads each adapted to have one end connected to the source of alternating current and the other end connected to one terminal of one of said bulbs respectively, rectifying means having its input connected to the other terminal of one of said lamp bulbs, a first output lead for said charger adapted to have one end connected to a storage battery terminal of one polarity and the other end connected to the output of said rectifying means, and a second output lead for said charger adapted to have one end connected to a storage battery terminal of opposite polarity and its other end connected to the other terminal of the other of said lamp bulbs, so that direct current of substantially constant amperage is supplied by said charger whether one or a plurality of storage batteries is connected therewith and the batteries and charger are protected from damage resulting from inadvertent shorting or grounding of the leads thereof.

2,611,119

FREQUENCY GENERATOR EMPLOYING A MAGNETIC DOUBLE CROSS VALVE

Harold J. McCreary, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application September 15, 1950, Serial No. 184,970
10 Claims. (Cl. 321—68)



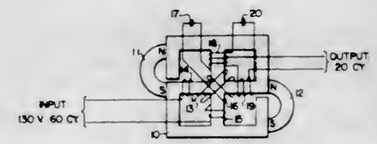
1. In a self-starting frequency generator, a magnetic core having a triplicity of intersecting members intersecting at a common point, a plurality of pre-tuned circuits having their respective coils wound through pairs of diagonally opposite corners of the intersection, and a source of alternating current magnetically coupled to said core, sail alternating current source supplying power to said pre-tuned circuits for initiating and sustaining oscillations therein at their respective individual pre-determined frequencies.

2,611,120

MAGNETIC CROSS VALVE HAVING SELF-STARTING CHARACTERISTICS

Harold J. McCreary, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Original application June 21, 1950, Serial No. 169,489. Divided and this application January 17, 1951, Serial No. 206,377
4 Claims. (Cl. 321—68)



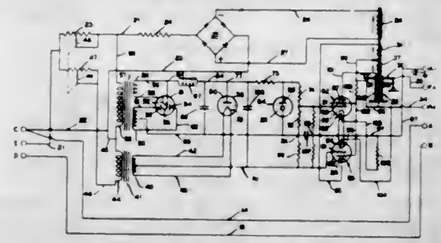
1. In a static frequency changer, a saturable magnetic core having a pair of intersecting members, a primary winding wound through one pair of diagonally opposite corners of the intersection, a secondary circuit including a condenser and a coil wound around said pair of intersecting members, a source of alternating current connected to said primary winding for providing the input signal, said input signal producing an input flux in said core, a load circuit connected to said secondary circuit, a permanent magnet disposed about said magnetic core for providing a biasing flux in said core, and a cross winding wound through the other pair of diagonally opposite corners of said intersection, a condenser connected across said cross winding forming a resonant circuit, said resonant circuit resonating responsive to said input flux and said biasing flux to produce a differential flux in said core, whereby alternating currents having a frequency integrally related to the frequency of said source is delivered to said load circuit.

2,611,121

ELECTRONIC VOLTAGE REGULATOR

John F. Emerson, Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application August 14, 1946, Serial No. 690,459
10 Claims. (Cl. 322—28)



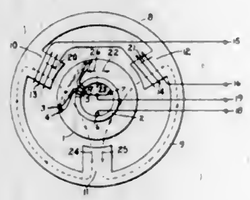
1. In a regulator for an alternating current generator, means for regulating the voltage output of said generator, said means comprising an electronic discharge device having a cathode and an anode and an electronic conduction path therebetween, connections from said generator output for supplying space current between the cathode and anode through said path, and other connections from said generator output for supplying a heating current to said cathode which

varies with the effective voltage output of said generator so as to vary the electronic flow through the conduction path, a normally balanced bridge circuit means affected by variations in the electronic flow through said conduction path to unbalance said bridge circuit means, electronic control valves affected by the unbalancing of said bridge circuit means, an electromagnetically operated device for controlling said generator, said device including a main control winding adapted to be connected across the generator output, and compensating windings controlled by said electronic valves to maintain the effective voltage output of said generator at a predetermined value.

2,611,122
DYNAMOELECTRIC MACHINE

André Valentin, Belfort, France, assignor to General Electric Company, a corporation of New York

Application June 15, 1948, Serial No. 33,047
In France July 18, 1947
23 Claims. (Cl. 322—53)



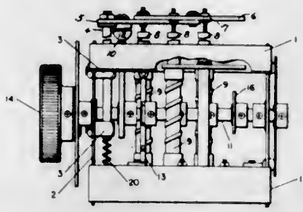
1. An armature reaction excited dynamoelectric machine having a field member and an armature member provided with a commutator, three brushes including a pair of primary brushes electrically spaced apart and providing a primary circuit through said armature, said primary brushes being interconnected by a low resistance connection, the third of said brushes being electrically displaced from said pair of primary brushes and providing with said pair of primary brushes a secondary circuit through said armature, and means for controlling the secondary characteristics of said machine including a field exciting winding arranged to provide excitation in the axis of the armature reaction produced by current flowing in said secondary armature circuit.

2,611,123
HIGH-FREQUENCY APPARATUS

Wladimir J. Polydoroff, Kensington, Md., and John E. Johanson, Boonton, N. J.

Application August 2, 1950, Serial No. 177,251
6 Claims. (Cl. 336—131)

1. High frequency tuning apparatus comprising a plurality of variable reactors each having a stationary and a movable element to thereby change their reactance with linear movement of said movable elements, said reactors each having two different values of reactance to correspond to two different frequency ranges, electrical switching means to switch from one frequency range to another, mechanical means translating a manual rotation into a reciprocal linear movement, a plurality of rotatable members actuating said switching means, said rotating members, and said translating means having a common shaft so that one frequency range is produced during a forward movement of the

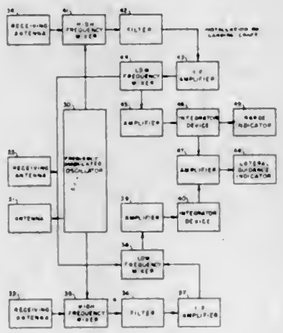


movable elements and another frequency range during their backward movement.

2,611,124
BLIND LANDING SYSTEM

Gerald E. Hart, United States Navy

Application July 1, 1946, Serial No. 680,787
4 Claims. (Cl. 343—6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



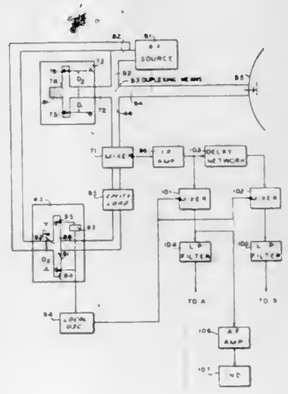
1. In a radio directed approach system, azimuthal determination apparatus for indicating the position of an approaching craft relative to a selected line of approach to a particular locality, comprising; transmitting means aboard the craft for emitting a frequency varying radio frequency signal bearing selected variation characteristics, a first retransmitting means responsive to the radio frequency signal to emit a reference frequency signal, a second retransmitting means responsive to the radio frequency signal to produce a return signal of frequency equal to the sum of the radio frequency signal and the reference signal, a third retransmitting means physically removed from the second retransmitting means and responsive to the radio frequency signal to produce a return signal of requency equal to the difference between the radio frequency and reference signals, receiver means aboard the craft responsive to the energy from the retransmitting means, means operative from the output of the receiver means to produce first and second comparison signals in dependency on phase variation differences between the radio frequency signal and the signals returned by the second and third retransmitting means produced by differences in lengths of transmission paths, and means combining said comparison signals to produce an indication in dependency on the azimuthal position of the craft relative to the location of the second and third retransmitting means.

2,611,125
DOPPLER RADAR SYSTEM

Robert H. Dicke, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application May 30, 1945, Serial No. 596,726
5 Claims. (Cl. 343—8)

1. A communication system for determining the relative velocity of two or more objects comprising duplexing means, a transmitting oscillator connected to said duplexing means, radiating means connected to said duplexing means, variable loading means connected to said duplexing means and having first and second input means, a local oscillator, a single sideband modulator connected to said transmitting oscillator and said local oscillator, a first mixer connected to said duplexing means and to said modulator, a first amplifier connected to the output of said first mixer, a second mixer connected to the output of said first amplifier and to said local oscillator, first filter means connecting a portion



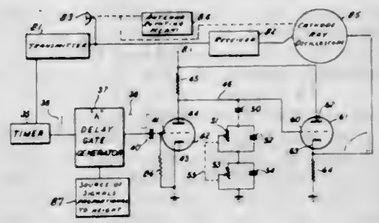
of the output of said second mixer to said first input means of said loading means; a second amplifier connected to a portion of the output of said second mixer, an indicator adapted to utilize the output of said second amplifier, delay means connected to the output of said first amplifier, a third mixer connected to the outputs of said delay means and said local oscillator, and second filter means connecting the output of said third mixer to said second input means of said loading means, whereby said indicator indicates the velocity of a reflecting object relative to said radiating means.

2,611,126
RADIO OBJECT LOCATING SYSTEM HAVING A HYPERBOLIC SWEEP

Jack H. Irving, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application December 29, 1944, Serial No. 570,412
4 Claims. (Cl. 343—11)

1. An airborne plan position object detection system for displaying the ground pattern comprising radio wave transmitting and receiving means and cathode-ray tube presentation means, means for intermittently energizing said radio transmitting means, means including a time-constant network for generating sweep pulses of hyperbolic wave form in timed relation with said

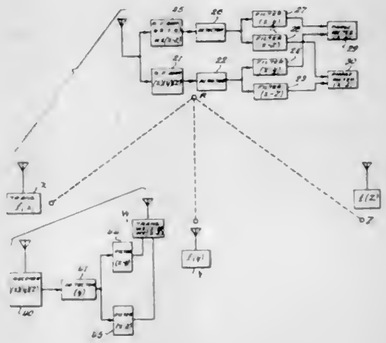


intermittent energization, delay means to delay the initiation of said sweep pulses by an amount which is proportional to the altitude of said system, and means energized by said sweep pulses to deflect the beam of said cathode-ray tube to provide a time base.

2,611,127
CONTINUOUS WAVE NAVIGATION SYSTEM

Winslow Palmer, West Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application October 28, 1947, Serial No. 782,529
14 Claims. (Cl. 343—105)

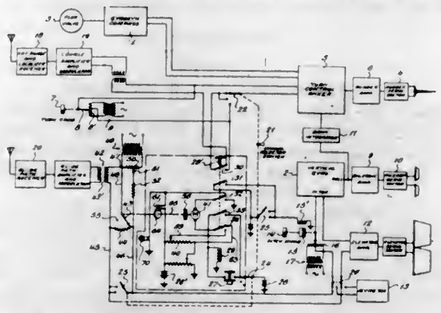


1. In a radio navigation system of the type wherein continuous wave signals are transmitted from three separate locations, and first and second beat frequency waves derived from said three signals are transmitted separately from said transmitting locations; a receiver, comprising first receiving means adapted to receive said first three signals, second receiving means adapted to receive said first and second beat frequencies, detecting means responsive to said first receiving means to obtain said first and second beat frequencies directly from said first three signals, filter means responsive to said second receiving means to separate said first and second beat frequencies, first phase comparison means responsive to said filter means and said detecting means to compare in phase said separately received first

beat frequencies, second phase comparison means responsive to said filter means and said detecting means to compare in phase said separately received second beat frequencies.

2,611,128
SAFETY DEVICE FOR AUTOMATIC APPROACH SYSTEMS
Cecil C. Pine, Lake Ronkonkoma, and Charles L. Sharp, Setauket, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application March 10, 1950, Serial No. 148,836
10 Claims. (Cl. 343—108)

1. An automatic approach system for aircraft having an automatic pilot including radio guidance means for causing the craft to glide downwardly toward a landing field through said automatic pilot, emergency means operable by the aviator for severing said radio means from control of the automatic pilot, and means for simultaneously and automatically adjusting said auto-

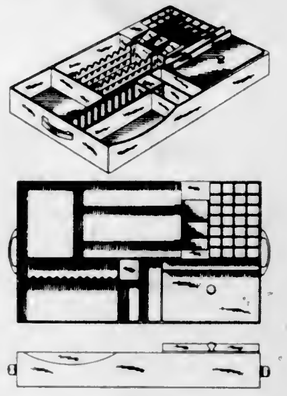


matic pilot to cause ascent of the craft upon operation of said emergency means.

DESIGNS

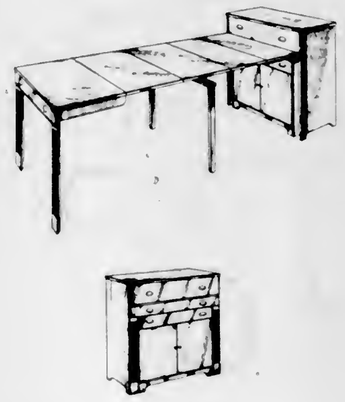
SEPTEMBER 16, 1952

167,732
COLLECTING TRAY
Augusto Alba, San Francisco, Calif.
Application April 14, 1951, Serial No. 14,845
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a collecting tray, as shown.

167,733
COMBINATION CHEST, WRITING DESK, AND EXTENSION TABLE
Stanley T. Anderson, Jamestown, N. Y., assignor to Alliance Furniture Company, Jamestown, N. Y., a corporation of New York
Application February 18, 1952, Serial No. 18,575
Term of patent 14 years
(Cl. D33—14)

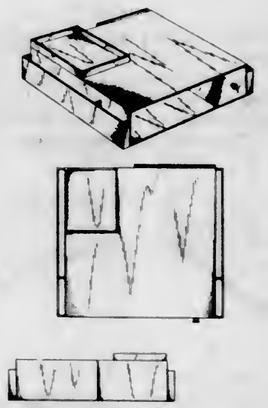


The ornamental design for a combination chest, writing desk, and extension table, as shown and described.

167,733—Continued

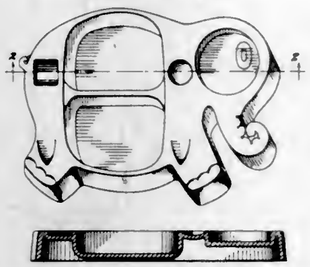


167,734
TELEPHONE UTILITY CABINET
Benjamin Applebaum, Buffalo, N. Y.
Application April 10, 1952, Serial No. 19,280
Term of patent 14 years
(Cl. D33—3)



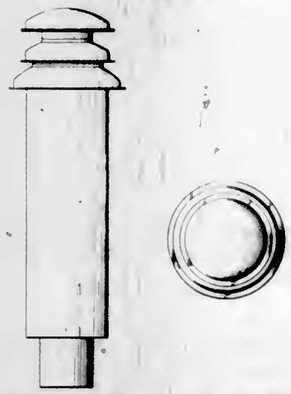
The ornamental design for a telephone utility cabinet, substantially as shown.

167,735
CHILD'S COMPARTMENTED DINING TRAY
Jerry N. Ashway, Jenkintown, Pa.
Application December 18, 1950, Serial No. 13,494
Term of patent 14 years
(Cl. D44—10)



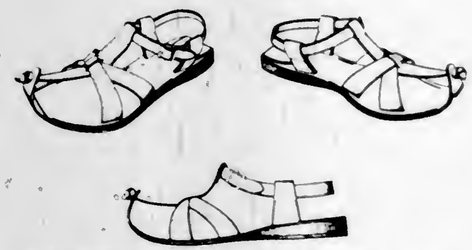
The ornamental design for a child's compartmented dining tray, substantially as shown.

167,736
CHIMNEY
Mark Lawson Bowman, St. Louis, Mo., assignor to International Oil Burner Co., St. Louis, Mo.
Application April 18, 1951, Serial No. 14,884
Term of patent 14 years
(Cl. D62—3)



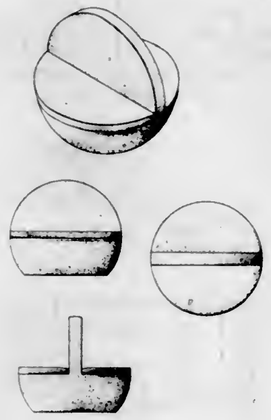
The ornamental design for a chimney, as shown.

167,737
SANDAL OR SIMILAR ARTICLE
Walter Braun, Los Angeles, Calif., assignor to Cobblers Incorporated, Los Angeles, Calif., a corporation of California
Application November 23, 1951, Serial No. 17,508
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a sandal or similar article, as shown.

167,738
BENCH
Walter L. Campbell, St. Petersburg, Fla.
Application October 24, 1951, Serial No. 17,094
Term of patent 14 years
(Cl. D15—11)



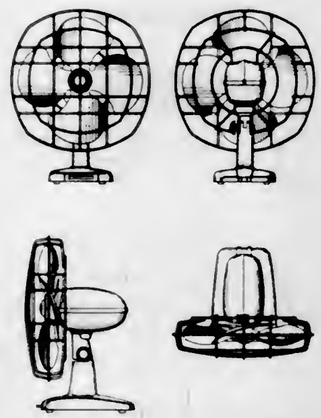
The ornamental design for a bench, substantially as shown.

167,739
TABLE
William Joseph Carr, Gardner, Mass., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application July 23, 1948, Serial No. 147,734
Term of patent 7 years
(Cl. D33—14)



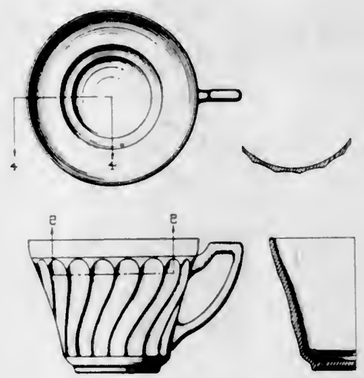
The ornamental design for a table, substantially as shown.

167,740
ELECTRIC FAN
Alfred W. Corwin, Princeton, Ill.
Application March 29, 1952, Serial No. 19,108
Term of patent 7 years
(Cl. D26—7)



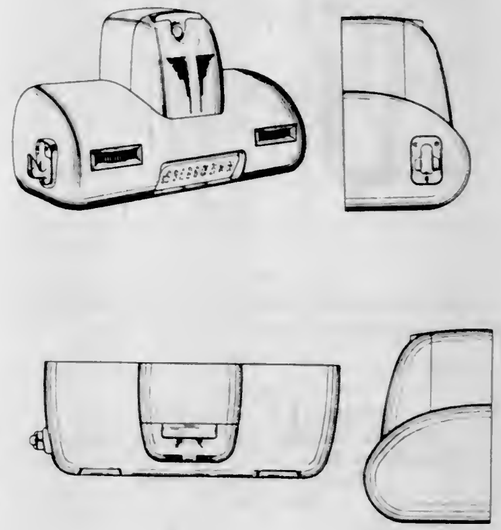
The ornamental design for an electric fan, as shown.

167,741
CUP
R. Guy Cowan, Fayetteville, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application July 21, 1950, Serial No. 11,291
Term of patent 14 years
(Cl. D44—9)



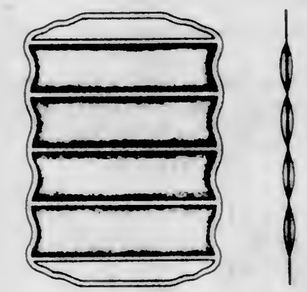
The ornamental design for a cup, as shown and described.

167,742
RADIO CABINET
Arnold R. Dahlberg, Minneapolis, Minn., assignor to The Dahlberg Company, Minneapolis, Minn., a corporation of Minnesota
Application October 5, 1951, Serial No. 16,843
Term of patent 14 years
(Cl. D56—4)



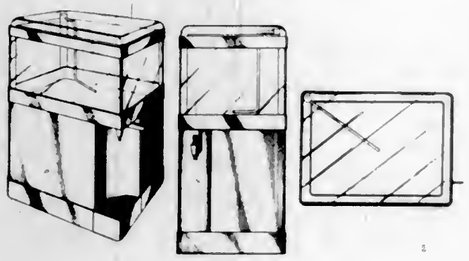
The ornamental design for a radio cabinet, as shown.

167,743
COMBINATION HEATING AND COOLING PAD
Jerome J. Dorfman, New York, N. Y.
Application November 19, 1951, Serial No. 17,470
Term of patent 7 years
(Cl. D83—1)



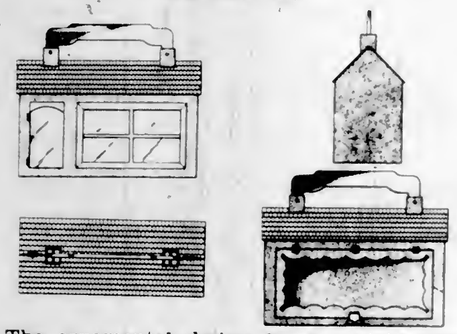
The ornamental design for a combination heating and cooling pad, substantially as shown and described.

167,744
REFRIGERATED BEVERAGE DISPENSER
Henry Dreyfuss, Pasadena, Calif., assignor to Sunkist Growers, Inc., Los Angeles, Calif., a corporation of California
Application April 14, 1952, Serial No. 19,319
Term of patent 14 years
(Cl. D2—3)



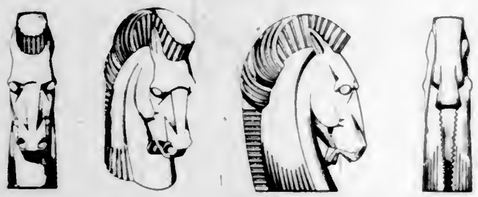
The ornamental design for a refrigerated beverage dispenser, as shown and described.

167,745
PORTABLE DOLLHOUSE
Marilyn Griffith, Los Angeles, Calif.
Application May 12, 1951, Serial No. 15,150
Term of patent 7 years
(Cl. D34—11)



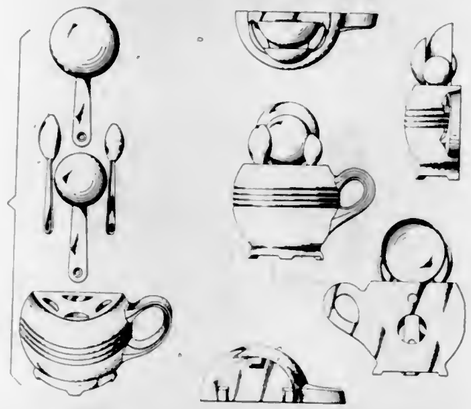
The ornamental design for a portable dollhouse, substantially as shown.

167,746
HOOD ORNAMENT FOR AUTOMOBILES
Joan Hanscom, Providence, R. I.
Application April 7, 1951, Serial No. 14,750
Term of patent 14 years
(Cl. D14—18)



The ornamental design for a hood ornament for automobiles, as shown.

167,747
COMBINED HOLDER AND MEASURING SPOONS
Bernhard Hasenstab, Akron, Ohio, assignor to Coventry Ware, Inc., Barberton, Ohio, a corporation of Ohio
Application July 19, 1951, Serial No. 15,964
Term of patent 7 years
(Cl. D44—29)



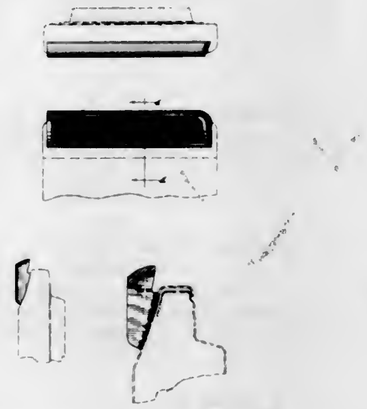
The ornamental design for a combined holder and measuring spoons, as shown.

167,748
PLAQUE
Daniel J. Hennessy, New York, N. Y.
Application September 26, 1951, Serial No. 16,749
Term of patent 14 years
(Cl. D29—23)



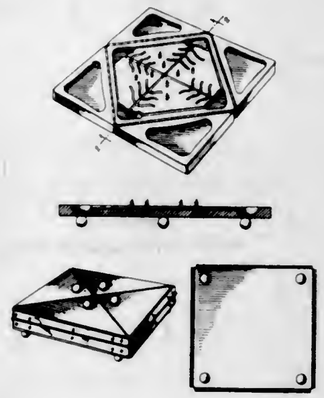
The ornamental design for a plaque, substantially as shown and described.

167,749
GRIP FOR COOKING RANGE DOOR
Richard E. Hitchcock, Birmingham, Mich., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application May 6, 1950, Serial No. 9,756
Term of patent 7 years
(Cl. D81—25)



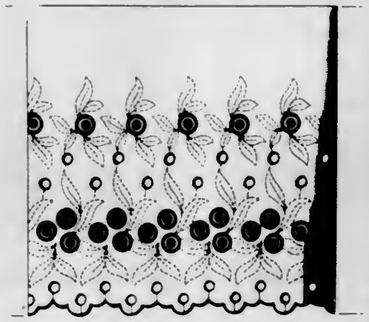
The ornamental design for a grip for cooking range door, substantially as shown.

167,750
COMBINED FOLDABLE ROAST BOARD AND FOOD TRAY
Robert B. Karoff, New York, N. Y., assignor to Novelty Utilities, Inc., New York, N. Y., a corporation of New York
Application May 6, 1952, Serial No. 19,610
Term of patent 14 years
(Cl. D44—3)



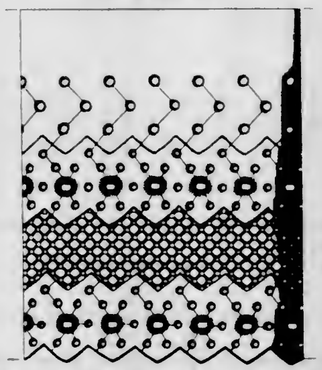
The ornamental design for a combined foldable roast board and foot tray, as shown.

167,751
EMBROIDERED FABRIC
Herman Kaufman, New York, N. Y.
Application June 3, 1952, Serial No. 20,007
Term of patent 3½ years
(Cl. D92—1)



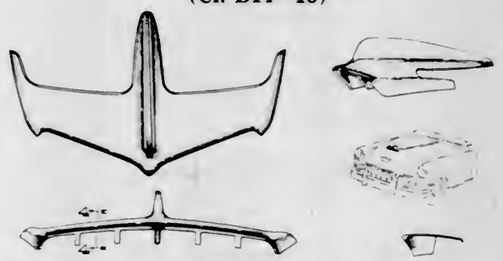
The ornamental design for an embroidered fabric, substantially as shown and described.

167,752
EMBROIDERED FABRIC
Herman Kaufman, New York, N. Y.
Application June 3, 1952, Serial No. 20,008
Term of patent 3½ years
(Cl. D92—1)



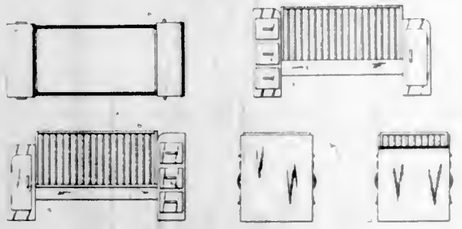
The ornamental design for an embroidered fabric, substantially as shown and described.

167,753
AUTOMOBILE HOOD ORNAMENT
Henry J. Keane, Grosse Pointe, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 11, 1952, Serial No. 20,124
Term of patent 7 years
(Cl. D14—18)



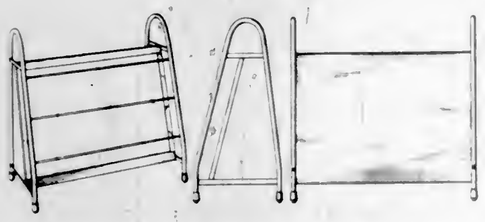
The ornamental design for an automobile hood ornament, substantially as shown and described.

167,754
NURSERY BED UNIT
Dean F. Kerby, St. Louis, Mo.
Application March 19, 1951, Serial No. 14,547
Term of patent 7 years
(Cl. D5—5)



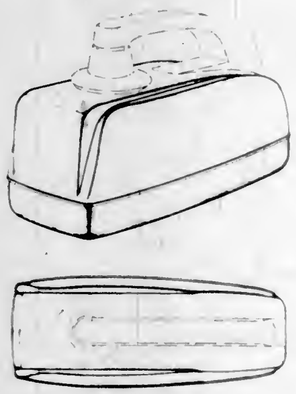
The ornamental design for a nursery bed unit, substantially as shown.

167,755
RADIANT HEATER
Martin L. Kornstein, Jackson Heights, N. Y.
Application December 28, 1951, Serial No. 17,845
Term of patent 7 years
(Cl. D81—10)

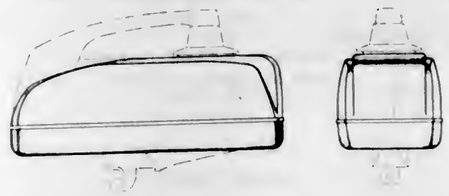


The ornamental design for a radiant heater, as shown.

167,756
POWER UNIT FOR A FOOD MIXER OR THE LIKE
Raoul A. Lambert, Springfield, Mass., assignor to Westinghouse Electric Corporation, a corporation of Pennsylvania
Application November 16, 1951, Serial No. 17,442
Term of patent 14 years
(Cl. D44—1)

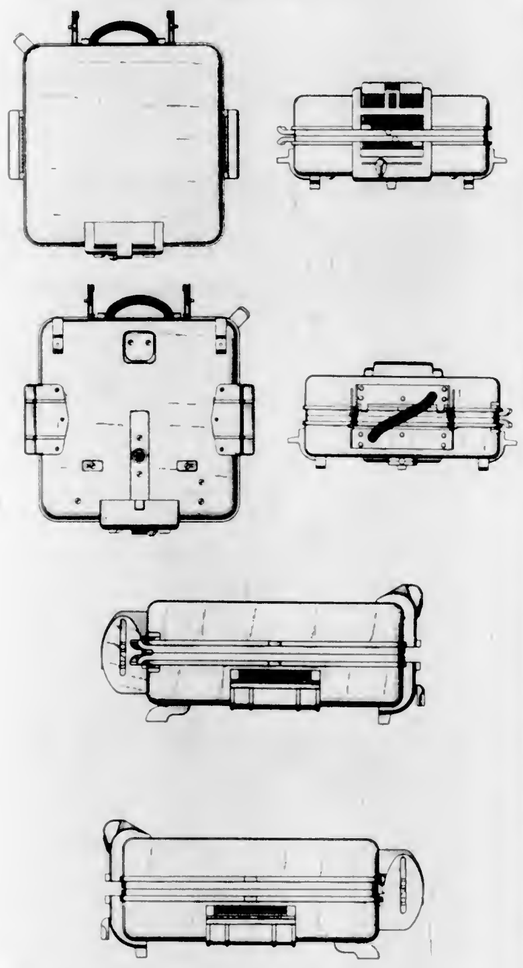


167,756—Continued



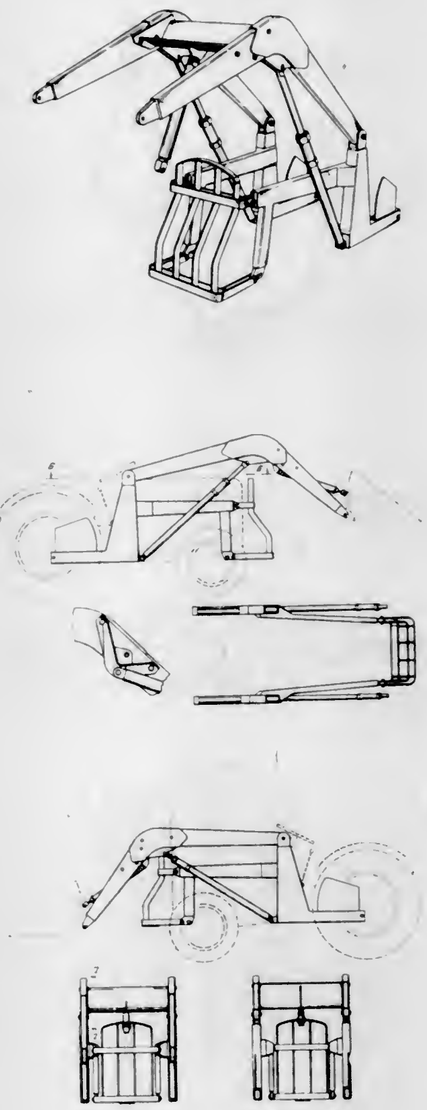
The ornamental design for a power unit for a food mixer or the like, substantially as shown and described.

167,757
COMBINATION GRILL, WAFFLE IRON, AND BROILER
Jack Morgan, Chicago, Ill.
Application June 30, 1951, Serial No. 15,729
Term of patent 14 years
(Cl. D81—10)



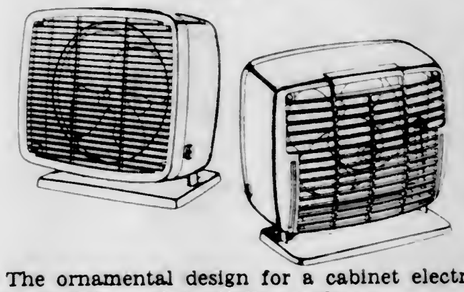
The ornamental design for a combination grill, waffle iron, and broiler, as shown.

167,758
LOADER UNIT FOR FARM TRACTORS
John I. Michaels, Carl A. Loesch, Kenneth E. Haddock, and Charles J. Davis, Wichita, Kans., assignors to Mid-Western Industries, Inc., Wichita, Kans., a corporation of Kansas
Application May 23, 1952, Serial No. 19,850
Term of patent 14 years
(Cl. D14—3)



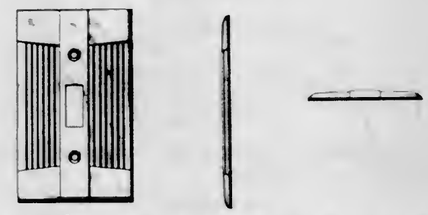
The ornamental design for a loader unit for farm tractors, as shown and described.

167,759
CABINET ELECTRIC AIR CIRCULATOR
Donald L. McFarland, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application December 12, 1951, Serial No. 17,698
Term of patent 14 years
(Cl. D26—7)



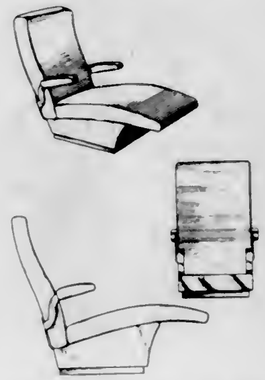
The ornamental design for a cabinet electric air circulator, substantially as shown.

167,760
WALL PLATE OR SIMILAR ARTICLE
Louis Ludwig, New York, N. Y.
Application November 8, 1951, Serial No. 17,328
Term of patent 14 years
(Cl. D26—13)



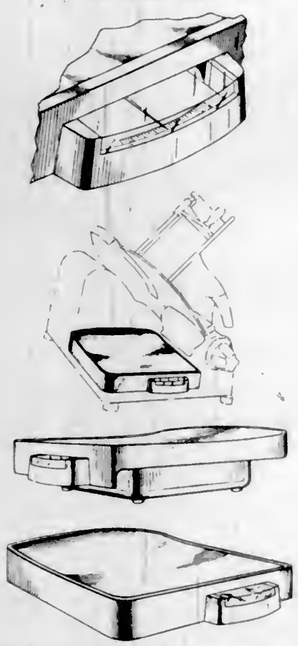
The ornamental design for a wall plate or similar article, substantially as shown.

167,761
LOUNGE CHAIR OR THE LIKE
Johannes Luckhardt, Berlin-Dahlem, Germany, assignor to Anton Lorenz, Buffalo, N. Y.
Application October 31, 1951, Serial No. 17,183
Term of patent 14 years
(Cl. D15—11)



The ornamental design for a lounge chair or the like, substantially as shown.

167,762
WEIGHING DEVICE
John McLeod Little, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application January 26, 1951, Serial No. 13,986
Term of patent 14 years
(Cl. D52—10)



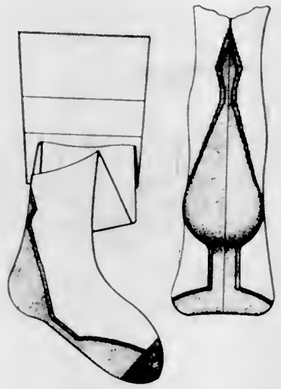
The ornamental design for a weighing device, as shown and described.

167,763
DINNER PLATE OR SIMILAR ARTICLE
Cyril W. Leigh, East Orange, N. J., assignor to Onondaga Pottery Company, Syracuse, N. N. Y., a corporation of New York
Application April 2, 1951, Serial No. 14,693
Term of patent 14 years
(Cl. D44—15)



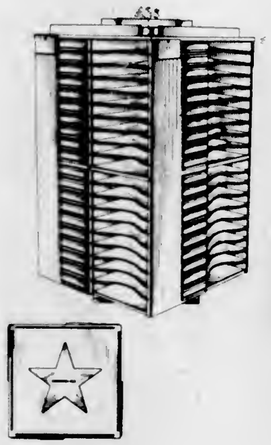
The ornamental design for a dinner plate or similar article, as shown and described.

167,764
LADY'S STOCKING
John J. Moore, Dallas, N. C., assignor to Wisteria Hosiery Mills, Inc., Gastonia, N. C., a corporation of North Carolina
Application April 18, 1952, Serial No. 19,381
Term of patent 14 years
(Cl. D47—7)



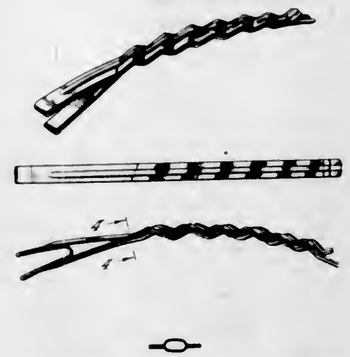
The ornamental design for a lady's stocking, substantially as shown.

167,765
RECORD CABINET
Mel Offner, New Orleans, La.
Application March 22, 1952, Serial No. 19,007
Term of patent 7 years
(Cl. D33—19)



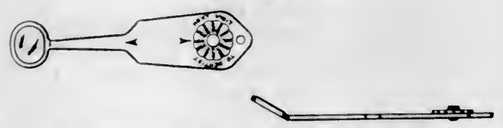
The ornamental design for a record cabinet, as shown and described.

167,766
BOBBY PIN
Adolph Olevin, Brooklyn, N. Y.
Application August 13, 1951, Serial No. 16,248
Term of patent 14 years
(Cl. D86—10)



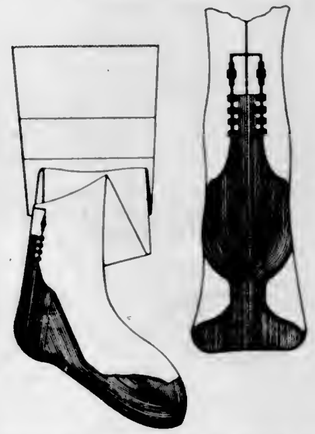
The ornamental design for a bobby pin, as shown.

167,767
DENTAL MIRROR
James R. O'Neil, San Francisco, Calif.
Application April 8, 1952, Serial No. 19,237
Term of patent 7 years
(Cl. D24—1)



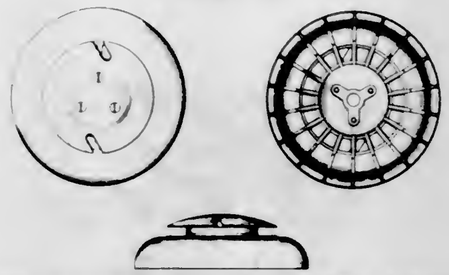
The ornamental design for a dental mirror, substantially as shown and described.

167,768
LADY'S STOCKING
Arthur L. Patterson, Sr., Albemarle, N. C., assignor to Lillian Knitting Mills Company, Albemarle, N. C., a corporation of North Carolina
Application April 17, 1952, Serial No. 19,362
Term of patent 14 years
(Cl. D47—7)



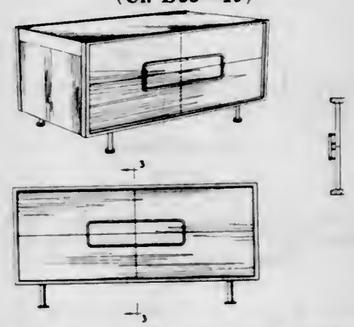
The ornamental design for a lady's stocking, substantially as shown.

167,769
COMBINED STARTING PULLEY AND BLOWER FOR A GASOLINE ENGINE
William H. Phelps, Ralston, Nebr.
Application October 20, 1951, Serial No. 17,043
Term of patent 14 years
(Cl. D77—1)



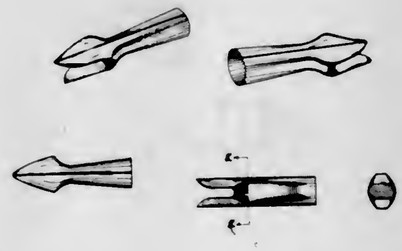
The ornamental design for a combined starting pulley and blower for a gasoline engine, as shown.

167,770
CABINET
Wayne R. Porter, Grand Rapids, Mich., assignor to Grand Rapids Store Equipment Company, Grand Rapids, Mich., a corporation of Michigan
Application September 25, 1950, Serial No. 12,336
Term of patent 3½ years
(Cl. D33—19)



The ornamental design for a cabinet, substantially as shown.

176,771
ARROW NOCK
Theodore R. Reams, Kansas City, Mo.
Application June 8, 1951, Serial No. 15,459
Term of patent 14 years
(Cl. D34—15)



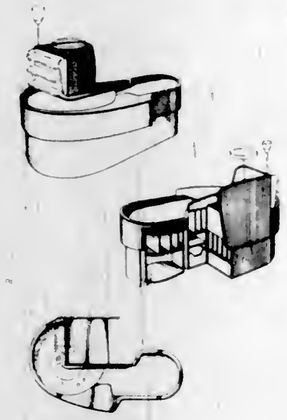
The ornamental design for an arrow nock, as shown.

167,772
TEXTILE FABRIC
Henry Rose, New York, N. Y.
Application February 1, 1952, Serial No. 18,339
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown, and described.

167,773
COUNTER
Sidney S. Rubaloff, Los Angeles, Calif.
Application July 12, 1952, Serial No. 20,581
Term of patent 7 years
(Cl. D80—9)



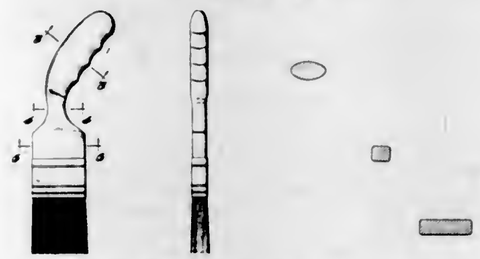
The ornamental design for a counter, substantially as shown and described.

167,774
STOCKING
Richard Ernst Schletter, Oak Lane, Pa.
Application May 17, 1950, Serial No. 9,997
Term of patent 3½ years
(Cl. D47—7)



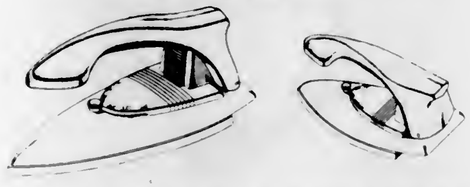
The ornamental design for a stocking, as shown and described.

167,775
PAINT BRUSH
Andrew A. Schmidt, Los Angeles, Calif.
Application October 22, 1951, Serial No. 17,063
Term of patent 14 years
(Cl. D9—2)



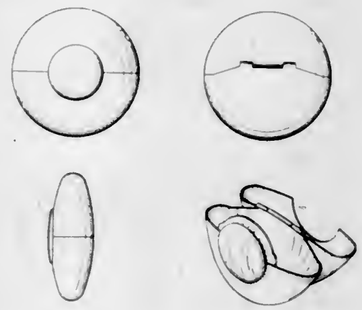
The ornamental design for a paint brush, substantially as shown and described.

167,776
TRAVEL IRON
Richard O. Spencer, Santa Monica, Calif., and Bradford R. Voight, Milford, Conn., assignors to General Electric Company, a corporation of New York
Application May 3, 1951, Serial No. 15,049
Term of patent 14 years
(Cl. D49—6)



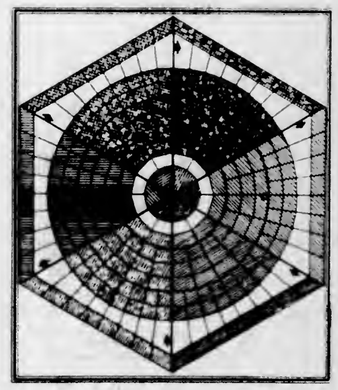
The ornamental design for a travel iron, substantially as shown.

167,777
PERFUME BOTTLE CASING
Donald L. Spender, Wolcott, Conn., assignor to Scoville Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application June 30, 1951, Serial No. 15,726
Term of patent 14 years
(Cl. D58—11)



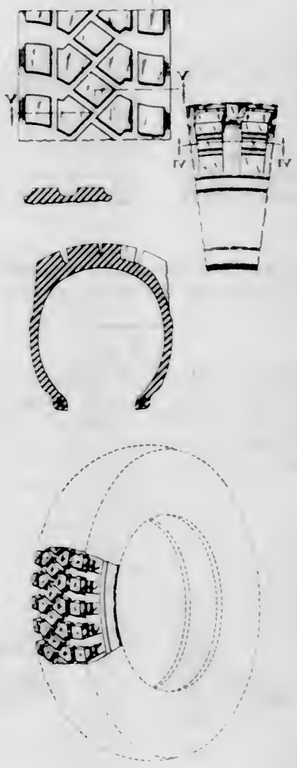
The ornamental design for a perfume bottle casing, substantially as shown.

167,778
GAME BOARD
David L. Stackhouse, Warwick, R. I.
Application January 31, 1951, Serial No. 14,055
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a game board, as shown and described.

167,779
PNEUMATIC TIRE
Audrey H. Steadman, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 7, 1951, Serial No. 17,318
Term of patent 14 years
(Cl. D90—20)



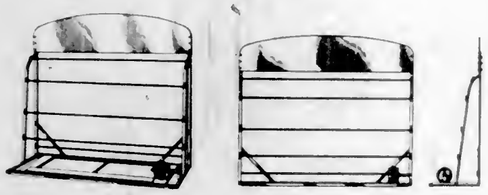
The ornamental design for a pneumatic tire, substantially as shown and described.

167,780
TRICYCLE
Steve Sterancsak, Clifton, N. J.
Application February 2, 1952, Serial No. 18,346
Term of patent 3½ years
(Cl. D34—15)



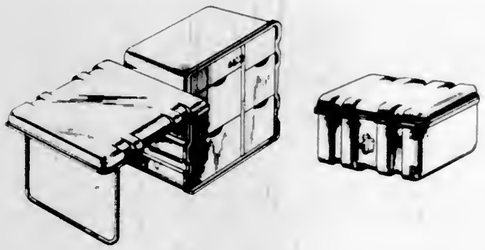
The ornamental design for a tricycle, as shown.

167,781
COMBINED DISPLAYING AND DISPENSING STAND
John R. Warp, Chicago, Ill., assignor to Flex-O-Glass, Inc., Chicago, Ill., a corporation of Illinois
Application June 28, 1950, Serial No. 10,797
Term of patent 14 years
(Cl. D80—10)



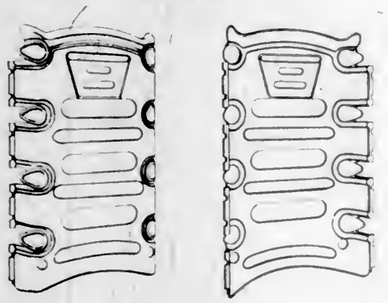
The ornamental design for a combined displaying and dispensing stand, as shown.

167,782
COMBINATION FIELD DESK AND TRUNK
Alexander C. Weiss, Takoma Park, Md., assignor to the United States of America as represented by the Secretary of the Army
Application January 28, 1952, Serial No. 18,259
Term of patent 3½ years
(Cl. D87—5)

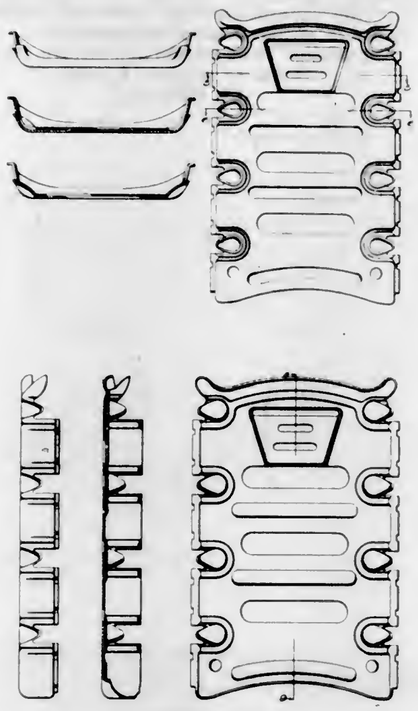


The ornamental design for a combination field desk and trunk, substantially as shown and described.

167,783
PACKBOARD
Alexander C. H. Weiss, Chicago, Ill., and Russell W. Ehlers, Silver Spring, Md., assignors to the United States of America as represented by the Secretary of the Army
Application May 14, 1952, Serial No. 19,707
Term of patent 3½ years
(Cl. D87—5)

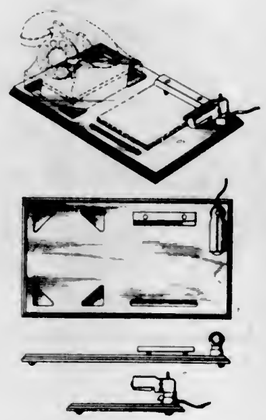


167,783—Continued



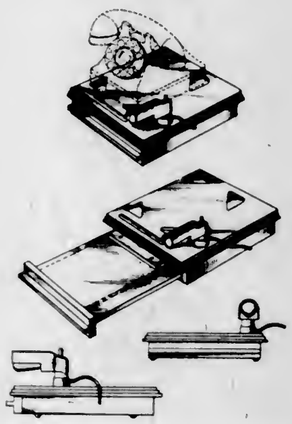
The ornamental design for a packboard, substantially as shown.

167,784
COMBINATION TELEPHONE TRAY, LAMP, AND MEMORANDUM PAD
James P. Whitaker, Sledge, Miss.
Application April 15, 1952, Serial No. 19,321
Term of patent 3½ years
(Cl. D26—14)



The ornamental design for a combination telephone tray, lamp, and memorandum pad, substantially as shown.

167,785
COMBINATION TELEPHONE TRAY, LAMP, AND MEMORANDUM PAD
James Pat Whitaker, Sledge, Miss.
Application April 15, 1952, Serial No. 19,322
Term of patent 3½ years
(Cl. D26—14)



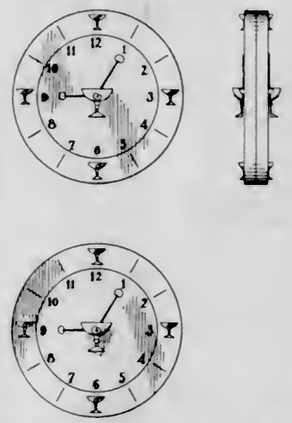
The ornamental design for a combination telephone tray, lamp, and memorandum pad, substantially as shown.

167,786
LADY'S STOCKING
Abrasha Wilcher, Manchester, N. H., assignor to Melvin J. Gordon, Sadye Z. Gordon, and Natalie G. Stone, doing business as Manchester Hosiery Mills, Manchester, N. H.
Application April 21, 1952, Serial No. 19,406
Term of patent 14 years
(Cl. D47—7)



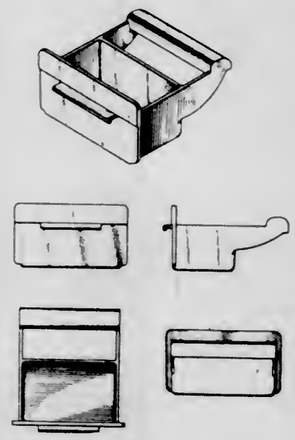
The ornamental design for a lady's stocking, as shown and described.

167,787
CLOCK
Florence C. Witmer, New York, N. Y.
Application February 14, 1952, Serial No. 18,520
Term of patent 14 years
(Cl. D42—7)



The ornamental design for a clock, substantially as shown.

167,788
BIRD FEED TRAY
Bernard Yellin, Chicago, Ill., assignor to Bernard Edward Co., Chicago, Ill., a corporation of Illinois
Application July 7, 1952, Serial No. 20,490
Term of patent 14 years
(Cl. D31—2)



The ornamental design for a bird feed tray, substantially as shown.

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abel Corporation, The, Columbus, Ohio. Automobile seat and slip covers. Serial No. 558,980, Sept. 23. Class 19.
Acclaim Hosiery Mills, Inc., High Point, N. C. Ladies' hosiery. Serial No. 611,251, Sept. 23. Class 39.
Aceites Bau, S. A., Madrid, Spain. Olive oil. Serial No. 561,705, Sept. 23. Class 46.
Adrema Limited, London, England. Addressing machines and attachments therefor. Serial No. 579,386, Sept. 23. Class 23.
Advance Solvents & Chemical Corporation, New York, N. Y. Stabilizers for vinyl resins. Serial No. 624,003, Sept. 23. Class 6.
Aerojet Engineering Corporation, Azusa, Calif. Solid propellant charges used in rocket motors. Serial No. 609,619, Sept. 23. Class 6.
Aktiebolaget Bofors, Bofors, Sweden. Drug for the treatment of tuberculosis. Serial No. 628,733, Sept. 23. Class 18.
Alamac Knitting Mills, Inc., New York, N. Y. Knitted fabrics. Serial No. 620,711, Sept. 23. Class 42.
Alliance Manufacturing Company, The, Alliance, Ohio. Electromagnetic signal boosters and amplifiers. Serial No. 620,656, Sept. 23. Class 21.
Altec Service Corporation, New York, N. Y. Maintaining and repairing sound and projection apparatus. Serial No. 587,168, Sept. 23. Class 103.
American Cyanamid Company, New York, N. Y. Antibiotic. Serial No. 620,453, Sept. 23. Class 18.
American Cyanamid Company, New York, N. Y. Antibacterial preparation. Serial No. 627,615, Sept. 23. Class 18.
American Felt Company, Glenville, Conn. Separators for electric storage batteries. Serial No. 624,071, Sept. 23. Class 21.
American Fox Breeders Association, Burlington, Wis. Fur garments. Serial No. 623,036, Sept. 23. Class 39.
American Molasses Company, New York, N. Y. Refined sugar. Serial No. 618,193, Sept. 23. Class 46.
American Optical Company, Southbridge, Mass. Ballistic scientific and ballistic laboratory apparatus; bibliofilm projectors, etc. Serial No. 524,850, Sept. 23. Class 26.
American Stores Company, Philadelphia, Pa. Carcass beef and lamb. Serial Nos. 603,144–5, Sept. 23. Class 46.
Andrea Manufacturing Corp., Miami, Fla. Portable ironing boards. Serial No. 571,929, Sept. 23. Class 24.
Apple Distillers Ltd., New York, N. Y. Alcoholic apple cider. Serial No. 611,877, Sept. 23. Class 49.
Artzt, William W., New York, N. Y. T-shirts, vests, cardigans, etc. Serial No. 627,374, Sept. 23. Class 39.
Astra Pharmaceutical Products, Inc., Worcester, Mass. Antibiotic agent. Serial No. 627,166, Sept. 23. Class 18.
Atlantic Seafood Company: *See*—
Seapak Corporation.
Atlantic Steel Company, Atlanta, Ga. Metal products. Serial No. 616,272, Sept. 23. Class 13.
Atlas Brewing Company, Chicago, Ill. Beer and ale. Serial No. 576,030, Sept. 23. Class 48.
Aula Company, Inc., The, Long Island City, N. Y. Whole spices, ground spices, pickling spices and pepper, etc. Serial No. 582,157, Sept. 23. Class 46.
Aunt Mary's Birthday Clubs of America: *See*—
Ramsey, Lisle.
Austin Fruit Association, Austin, Colo. Fresh fruits. Serial No. 630,569, Sept. 23. Class 46.
Babytowne, Brooklyn, N. Y. Juvenile furniture. Serial No. 576,393, Sept. 23. Class 32.
Ballantyne of Peebles, Incorporated, New York, N. Y. Sweaters and hosiery. Serial No. 618,337, Sept. 23. Class 39.
Barber-Greene Company, Aurora, Ill. Portable and stationary belt conveyors, belt and bucket loaders, etc. Serial No. 625,652, Sept. 23. Class 23.
Barry, Donald, Productions, Inc., Los Angeles, Calif. Finger rings and bracelets. Serial No. 617,853, Sept. 23. Class 28.
Baru Company, Fort Worth, Tex. Hygienic douche powder. Serial No. 620,539, Sept. 23. Class 18.
Batkin, Fred, Jr., doing business as Smith Mountain Ranch, Dinuba, Calif. Fresh deciduous fruits and fresh grapes. Serial No. 622,063, Sept. 23. Class 46.
Battle Creek Food Company, The, Battle Creek, Mich. Soy bean flour, Kaffir tea, self-rising gluten flour, etc. Serial No. 610,000, Sept. 23. Class 46.
Bauer's: *See*—
House of Bauer, The.
Beam, James B., Distilling Co., Chicago, Ill. Whiskey. Serial No. 596,147, Sept. 23. Class 49.
Beam, James B., Distilling Co., Chicago, Ill. Vodka. Serial No. 596,148, Sept. 23. Class 49.
Beam, James B., Distilling Co., Chicago, Ill. Brandy. Serial No. 596,153, Sept. 23. Class 49.
Beattie Jet Products, Inc., New York, N. Y. Smoking tobacco. Serial No. 578,563, Sept. 23. Class 17.
Beck, Anita, doing business under the name and style of Anita Beck Designs, Minneapolis, Minn. Elastic ribbon-like tape. Serial No. 605,710, Sept. 23. Class 7.
Beck, Anita, Designs: *See*—
Beck, Anita.
Bell Textile Company, Inc., New York, N. Y. Chenille fabrics and chenille bedspreads. Serial No. 625,058, Sept. 23. Class 42.
Belmont Industries, Inc., Chicago, Ill. Household deodorants. Serial No. 616,752, Sept. 23. Class 6.
Bel Paese Sales Co. Inc., New York, N. Y. Cheese. Serial No. 541,072, Sept. 23. Class 46.
Ben-Roy Company, Seattle, Wash. Delivery truck bodies. Serial No. 620,586, Sept. 23. Class 19.
Bernad Creations, Ltd., Mount Vernon, N. Y. Drinking glasses. Serial No. 616,621, Sept. 23. Class 33.
Bertley Company, Incorporated, New York, N. Y. Seat and back cushion covers for automobiles. Serial No. 601,973, Sept. 23. Class 19.
Bestaste Products Company: *See*—
Pieri, John J.
Beta Theta Pi, Oxford, Ohio. Organizing chapters and regional groups. Serial No. 623,177, Sept. 23. Class 100.
Blue Grass Lodge No. 4, Fraternal Order of Police, Lexington, Ky. Quarterly publication. Serial No. 623,641, Sept. 23. Class 38.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. Serial No. 624,221, Sept. 23. Class 42.
Blum's, San Francisco, Calif. Candy. Serial No. 581,115, Sept. 23. Class 46.
Booth Fisheries Corporation, Chicago, Ill. Cold storage and freezing of foods. Serial No. 549,223, Sept. 23. Class 105.
Boston Junior Deb Co., Boston, Mass. Children's and teen-age sportswear. Serial No. 563,772, Sept. 23. Class 39.
Botany Mills, Inc., Passaic, N. J. Hand knitting yarns. Serial No. 624,995, Sept. 23. Class 43
Bunte Brothers, Chicago, Ill. Cough drops. Serial No. 627,169, Sept. 23. Class 18.
Burge, Robert S., doing business as S. W. Flower Company, Toledo, Ohio. Lawn seeds. Serial No. 607,842, Sept. 23. Class 1.
Business Systems, Inc., assignor to Scriptomatic, Inc., Philadelphia, Pa. Data copying machines. Serial No. 608,031, Sept. 23. Class 23.
Calso Water Co.: *See*—
Pacific Brewing and Malting Co.
Campbell Holton & Co., Bloomington, Ill. Canned fruit, rice, sauer kraut, etc. Serial No. 612,453, Sept. 23. Class 46.
Candy Crafters, Inc., Lansdowne, Pa. Candy and chewing gum. Serial No. 619,292, Sept. 23. Class 46.
Car Controls, Inc., Los Angeles, Calif. Electric distributors, generators, generator armatures, etc. Serial No. 565,908, Sept. 23. Class 21.
Card, C. S., Iron Works Co., The, Denver, Colo. Mine cars. Serial No. 608,400, Sept. 23. Class 19.
Central Ohio Supply Co., The, Columbus, Ohio. Confectionary topping material and imitation flavoring. Serial No. 573,707, Sept. 23. Class 46.
Chemical Linings, Inc., Watertown, N. Y. Acid resistant cement. Serial No. 625,581, Sept. 23. Class 12.
Chemical Testing Corporation, Long Island City, N. Y. Boiler feed treatment. Serial No. 606,272, Sept. 23. Class 6.
Ciba Limited, Basel, Switzerland. Pharmaceutical preparation. Serial No. 604,764, Sept. 23. Class 18.
Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparation for hormone therapy. Serial No. 628,921, Sept. 23. Class 18.
Clarostat Mfg. Co., Inc., Dover, N. H. Variable resistors. Serial No. 622,773, Sept. 23. Class 21.
Clayton & Lambert Manufacturing Company, Louisville, Ky. Electrically heated water heaters. Serial Nos. 626,442–3, Sept. 23. Class 21.
Cohan, Henry, New York, N. Y. Surgical brace joint or lock. Serial No. 620,400, Sept. 23. Class 44.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Deodorant for household use. Serial No. 625,889, Sept. 23. Class 6
Collins, Lee, Los Angeles, Calif. Black granite surface plates used to provide an accurate plane surface. Serial No. 616,793, Sept. 23. Class 26.
Columbian Steel Tank Company, Kansas City, Mo. Automotive express vehicle bodies; boats, barges, etc. Serial No. 578,373, Sept. 23. Class 19.
Compagnie Francaise Thomson-Houston, Paris, France. Electron-discharge tubes. Serial No. 619,446, Sept. 23. Class 21.

Compco Corporation, Chicago, Ill. Automobile accessories. Serial No. 594,954, Sept. 23. Class 19.
Consolidated Factors, Monterey, Calif. Fish netting. Serial No. 629,189, Sept. 23. Class 42.
Cook Chemical Company, Kansas City, Mo. Insecticides. Serial No. 609,913, Sept. 23. Class 6.
Cooperative Citrus Association: *See*—
Exeter Orange Growers Association.
Corn Products Refining Company, New York, N. Y. Starch. Serial No. 626,444, Sept. 23. Class 6.
Cramer Chemical Co., The, Gardner, Kans. Analgesic balm. Serial No. 623,824, Sept. 23. Class 18.
D-Con Company, Inc., The, Chicago, Ill. Deodorizer. Serial No. 627,254, Sept. 23. Class 6.
Dart's, Louise, Food Specialties, Media, Pa. Patty shells. Serial No. 625,463, Sept. 23. Class 46.
Dawnelle, Inc., New York, N. Y. Ladies' and misses' gloves. Serial No. 627,499, Sept. 23. Class 39.
Delaware Punch Company of America, The, San Antonio, Tex. Non-alcoholic maltless beverages. Serial No. 597,134, Sept. 23. Class 45.
Del Valle Limitada: *See*—
Del Valle Ltda. Sociedad Anonima Comercial e Industrial.
Del Valle Ltda. Sociedad Anonima Comercial e Industrial, Bueno Aires, Argentina, assignee of Del Valle Limitada. Perfume, toilet water, face powder, etc. Serial No. 471,660, Sept. 23. Class 51.
Dennison Manufacturing Company, Framingham, Mass. Partially printed tags. Serial No. 576,688, Sept. 23. Class 37.
Deri-del Inc., assignee: *See*—
Spielmann, Kathryn C.
Diamond Match Company, The, New York, N. Y. Waxed paper. Serial No. 588,282, Sept. 23. Class 37.
Diffley, Walter J., Wilmington, Calif. Detergent. Serial No. 626,447, Sept. 23. Class 52.
Doherty, Frank J., doing business under the name Doherty Hosiery Co., New York, N. Y. Women's and girls' hosiery. Serial No. 610,048, Sept. 23. Class 39.
Doherty Hosiery Co.: *See*—
Doherty, Frank J.
Dolan, George F., St. Paul, Minn. French fried potatoes. Serial No. 611,475, Sept. 23. Class 46.
Dominique France, Inc., New York, N. Y. Men's necktles and scarves. Serial No. 607,743, Sept. 23. Class 39.
Dow Corning Corporation, Midland, Mich. Organosiloxane adhesives. Serial No. 619,807, Sept. 23. Class 5.
Dow Jones & Co., Inc.: *See*—
Dow Jones & Company, Inc.
Dow Jones & Company, Inc., Wilmington, Del. assignee of Dow Jones & Co., Inc. Gathering business and financial news and transmitting the same. Serial No. 558,476–7, Sept. 23. Class 101.
Drexel Furniture Company, Drexel, N. C. Electric table and floor lamps. Serial No. 626,315, Sept. 23. Class 21.
Dry-Freeze Corporation, Chicago, Ill. Instant coffee. Serial No. 624,779, Sept. 23. Class 46.
Dunbar Glass Corporation, Dunbar, W. Va. Glass lamp chimneys; glass candlesticks; glass shapes, etc. Serial No. 607,323, Sept. 23. Class 34.
Dunne Products Company, Miami, Fla. Adhesive compound. Serial No. 615,310, Sept. 23. Class 5.
Duro Co., The, Dayton, Ohio. Water softeners. Serial No. 605,785, Sept. 23. Class 31.
E-Z Products: *See*—
Steckler, Nat P.
Easco Manufacturing Co., Inc., Irvington, N. J. Automobile seat covers. Serial No. 591,884, Sept. 23. Class 19.
Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Piece goods. Serial No. 616,419, Sept. 23. Class 42.
Economics Laboratory, Inc., St. Paul, Minn. Dishwashing compound. Serial No. 559,592, Sept. 23. Class 52.
Edmont Manufacturing Company, Coshocton, Ohio. Work gloves. Serial No. 577,173, Sept. 23. Class 39.
Electric Steel Foundry, Portland, Oreg. Hoe dippers. Serial No. 614,765, Sept. 23. Class 23.
Elraco Engineering Company, Hoboken, N. J. Graphite base pipe joint compound, refractory coatings, and high temperature cements. Serial No. 625,668, Sept. 23. Class 12.
Endo Products Inc., Richmond Hill, N. Y. Medicinal preparation. Serial No. 593,716, Sept. 23. Class 18.
Endura Time Corporation, New York, N. Y. Clocks and watches and parts thereof. Serial No. 622,929, Sept. 23. Class 27.
Ericsson Telephone Sales Corporation, New York, N. Y. Automatic telephone answering and message recording machines. Serial No. 614,657, Sept. 23. Class 21.
Exeter Orange Growers Association, also doing business as Cooperative Citrus Association, Exeter, Calif. Fresh citrus fruits. Serial No. 554,968, Sept. 23. Class 46.
Farbwerke Hoechst, Vormals Meister Lucius & Bruning, Frankfurt (Main)-Hoechst, Germany. Pharmaceutical chemicals and specialties of all kinds. Serial No. 614,913, Sept. 23. Class 18.
Fiat Società per Azioni, Turin, Italy. Rail vehicles, road vehicles, and airplanes. Serial No. 604,691, Sept. 23. Class 19.
Flagstaff Foods, Perth Amboy, N. J. Wines. Serial No. 610,547, Sept. 23. Class 47.
Fleming-Hall Tobacco Co., Inc., assignor to United States Tobacco Company, New York, N. Y. Cigars, cigarettes, and smoking tobacco. Serial No. 611,065, Sept. 23. Class 17.
Foster-Hochberg Manufacturing Company, Inc., Seattle, Wash. Maternity sports clothes. Serial No. 624,406, Sept. 23. Class 39.
Friedberg-Grunauer Co., San Francisco, Calif. Hand luggage. Serial No. 620,729, Sept. 23. Class 3.
Fritch, Mrs. L. M.: *See*—
Fritch, Lucille M.
Fritch, Lucille M., doing business as Mrs. L. M. Fritch, Cuyahoga Falls, Ohio. Fruit cake. Serial No. 623,576, Sept. 23. Class 46.
Fuel Oil Company of St. Louis, St. Louis, Mo. Heating oils. Serial No. 626,203, Sept. 23. Class 15.
Fuller Brush Company, The, Hartford, Conn. Mechanically operated rotary brushes. Serial No. 625,416, Sept. 23. Class 23.
Gallery of Homes, Inc., Rochester, N. Y. General real-estate brokerage. Serial No. 603,153, Sept. 23. Class 102.
Garod Radio Corporation, New York, N. Y. Radio receiving sets, television receiving sets, automatic electric phonographs, etc. Serial No. 618,572, Sept. 23. Class 21.
Gaylord Products, Incorporated, Chicago, Ill. Hair nets. Serial No. 617,394, Sept. 23. Class 39.
General American Transportation Corporation, Chicago, Ill. Railway freight cars, refrigerator cars, tank cars, etc. Serial No. 593,067, Sept. 23. Class 19.
General Conveyor Company, The: *See*—
Schroeder, Hans G.
General Gummed Products, Inc., Richmond Hill, N. Y. Gummed paper tape and gummed cloth tape. Serial Nos. 627,063–4, Sept. 23. Class 5.
General Motors Corporation, Detroit, Mich. Spark plugs, spark plug porcelains, and ignition terminals. Serial No. 620,207, Sept. 23. Class 21.
Glemby Company, Inc., The, New York, N. Y. Hair nets. Serial No. 626,205, Sept. 23. Class 39.
Goldenberg, Milo S., & Co., New York, N. Y. Bow ties and necktie bands. Serial No. 617,912, Sept. 23. Class 39.
Goldstein Millinery Company, Chicago, Ill. Ladies' hats. Serial No. 615,114, Sept. 23. Class 39.
Golf-O-Rino Co. of America, New York, N. Y. Golf game apparatus. Serial No. 620,341, Sept. 23. Class 22.
Goon, Wallace L.: *See*—
Sea Hunter Mfg. Co.
Gordon, E., & Co., Inc., Philadelphia, Pa. Children's dresses, women's dresses, brunch coats, and housecoats. Serial No. 614,384, Sept. 23. Class 39.
Grand Chapter of Phi Sigma Kappa, The, Chicago, Ill. Organizing of chapters in a national collegiate fraternity and maintaining membership therein. Serial No. 599,763, Sept. 23. Class 100.
Grierson, Oldham & Co. Ltd., London, England. Scotch whisky. Serial No. 613,987, Sept. 23. Class 49.
Gross, Lewis A., doing business as The Mulcine Company (also known as The Mulcine Co.), Philadelphia, Pa. Ointment. Serial No. 613,449, Sept. 23. Class 18.
Groves Thread Company, Inc., Gastonia, N. C. Thread. Serial No. 628,320, Sept. 23. Class 43.
Groves Thread Company, Inc., Gastonia, N. C. Thread. Serial No. 628,325, Sept. 23. Class 43.
Groves Thread Company, Inc., Gastonia, N. C. Thread. Serial No. 628,327, Sept. 23. Class 43.
Groves Thread Company, Inc., Gastonia, N. C. Thread. Serial No. 628,331, Sept. 23. Class 43.
Groves Thread Company, Inc., Gastonia, N. C. Thread. Serial Nos. 628,333–4, Sept. 23. Class 43.
Groves Thread Company, Inc., Gastonia, N. C. Thread. Serial No. 628,338, Sept. 23. Class 43.
Gruen Watch Company, The, Cincinnati, Ohio. Watches, watch cases and watch movements. Serial No. 616,172, Sept. 23. Class 27.
Guarantee Exterminating Company: *See*—
Guaranteed Sanitation, Inc.
Guaranteed Sanitation, Inc., doing business as Guarantee Exterminating Company, New York, N. Y. Insecticides. Serial No. 613,069, Sept. 23. Class 6.
Haeger Potteries, Inc., The, Dundee, Ill. Electric lamps. Serial No. 615,832, Sept. 23. Class 21.
Hall, Haas & Vessey, Ltd., Los Angeles, Calif. Fresh citrus fruits, fresh vegetables, and grapes. Serial No. 625,419, Sept. 23. Class 46.
Harris, Woodson Co., Inc., assignee of Melville Confections, Inc., Lynchburg, Va. Candy. Serial No. 566,411, Sept. 23. Class 46.
Hart, Schaffner & Marx, Chicago, Ill. Men's suits, and overcoats and topcoats. Serial No. 614,146, Sept. 23. Class 39.
Hausman, Robert J., Inc., New York, N. Y. Children's slips, panties, pajamas, etc. Serial No. 627,184, Sept. 23. Class 39.
Hawley & Hoops, Inc., East Boston, Boston, Mass. Candies. Serial No. 626,083, Sept. 23. Class 46.
Helde, Henry, Incorporated, New York, N. Y. Candies. Serial No. 613,372, Sept. 23. Class 46.
Heller, William, Incorporated, New York, N. Y. Knitted piece goods. Serial No. 616,317, Sept. 23. Class 42.
Herald Knitwear Co., Inc., New York, N. Y. Knitwear. Serial No. 582,729, Sept. 23. Class 39.

Heublein, G. F., & Bro., Inc., Hartford, Conn. Whiskey. Serial No. 604,911, Sept. 23. Class 49.
Holmyard, Harold R., doing business under the duly registered name Tropical Sales, Miami, Fla. Slingshots. Serial No. 623,512, Sept. 23. Class 22.
House of Bauer, The, doing business as Bauer's, Lincoln, Nebr. Candy. Serial No. 607,922, Sept. 23. Class 46.
House of Huston, Inc., Coral Gables, Fla. Chewing gum. Serial No. 627,132, Sept. 23. Class 46.
Imperial Lighting Products Company, Inc., Greensburg, Pa. Electric lighting fixtures. Serial No. 609,925, Sept. 23. Class 21.
Independent Salmon Canneries, Inc., Seattle, Wash. Canned salmon. Serial No. 606,223, Sept. 23. Class 46.
Indian Summer, Inc., Evansville, Ind. Sweet apple cider. Serial No. 621,064, Sept. 23. Class 45.
Inglehoffer Foods Inc., Pasadena, Calif. German style mustard. Serial No. 623,513, Sept. 23. Class 46.
Insta-Freeze Corporation, San Francisco, Calif. Mixes comprising fruit juice and pulp, sugar, etc. Serial No. 548,502, Sept. 23. Class 46.
International Electric Company, Chicago, Ill. Electric fences and electric fence controllers. Serial No. 614,945, Sept. 23. Class 21.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. Serial No. 618,636, Sept. 23. Class 39.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. Serial No. 618,638, Sept. 23. Class 39.
J. & J. Grant, Glen Grant, Limited, Rothes, Scotland. Scotch whiskey. Serial No. 579,099, Sept. 23. Class 49.
Jefferson Island Salt Company, Louisville, Ky. Water softener salt. Serial No. 626,291, Sept. 23. Class 6.
Jewel Food Distributors, Amarillo, Tex. Chili-flavored corn chips. Serial No. 615,389, Sept. 23. Class 46.
Johnson & Johnson, New Brunswick, N. J. Removable chair covers. Serial No. 604,411, Sept. 23. Class 32.
Jones Brown, Abrams Co., doing business under the name Shirlynn Manufacturing Co., Dallas, Tex. Women's and misses' skirts, blouses, jackets, etc. Serial No. 612,261, Sept. 23. Class 39.
Kabo, Inc., Chicago, Ill. Girdles. Serial No. 623,056, Sept. 23. Class 39.
Kahle Horizontal Fish Hook Co.: *See*—
Kahle, Victor C.
Kahle, Victor C., doing business as Kahle Horizontal Fish Hook Co., South St. Paul, Minn. Fish hooks. Serial No. 589,659, Sept. 23. Class 22.
Kappa Psi Pharmaceutical Fraternity, Boston, Mass. Organizing chapters in a national pharmaceutical fraternity, etc. Serial No. 604,439, Sept. 23. Class 100.
Kaumagraph Company, Wilmington, Del. Decorative dry transfers. Serial No. 625,604, Sept. 23. Class 38.
Kirk, Robert, Ltd., San Francisco, Calif. Men's pajamas, men's underwear shorts and shirts and men's bathrobes. Serial No. 620,260, Sept. 23. Class 39.
Kirk, Robert, Ltd., San Francisco, Calif. Men's broadcloth dress shirts, men's sport shirts, men's underwear shorts and shirts, etc. Serial No. 620,261, Sept. 23. Class 39.
Knapp-Monarch Company, St. Louis, Mo. Electrical appliances. Serial No. 617,843, Sept. 23. Class 21.
Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. Serial No. 611,434, Sept. 23. Class 46.
Koester, E. H., Bakery Company, The, Baltimore, Md. Bakery goods. Serial No. 613,920–1, Sept. 23. Class 46.
Koppers Company, Inc., Pittsburgh, Pa. Polyalkyl hydroxybenzene. Serial No. 623,146, Sept. 23. Class 6.
Krajian, Aram A., doing business as Ora-Magic Co., Los Angeles, Calif. Antiseptic pharmaceutical preparation. Serial No. 609,654, Sept. 23. Class 18.
L & W Brassiere Co., New York, N. Y. Brassières, girdles, and garter belts. Serial No. 621,828, Sept. 23. Class 39.
Laboratory Products Co., Chicago, Ill. Composition to curb the desire for tobacco. Serial No. 626,741, Sept. 23. Class 18.
Ladner Brothers, Incorporated, Chicago, Ill. Alcoholic beverage. Serial No. 551,803, Sept. 23. Class 49.
Lafayette Pharmacal Inc., Lafayette, Ind. Diagnostic opaquing preparation. Serial No. 619,839, Sept. 23. Class 18.
Lafayette Pharmacal, Inc., Lafayette, Ind. Preparation for internal use for the purpose of facilitating the taking of X-ray pictures. Serial No. 627,515, Sept. 23. Class 18.
Lane Publishing Co., Menlo Park, Calif. Monthly magazine. Serial No. 624,786, Sept. 23. Class 38.
Lee's Dresses Inc., Kansas City, Mo. Women's and misses' dresses. Serial No. 626,089, Sept. 23. Class 39.
Lempco Products, Inc., Bedford, Ohio. Wheel balancing machines, and parts thereof. Serial No. 615,234, Sept. 23. Class 26.
Lempco Products, Inc., Bedford, Ohio. Wheel balancing machines, and parts thereof. Serial No. 615,237, Sept. 23. Class 26.
Leo Products: *See*—
Sautter, Karl H.
Lewin Drug Co.: *See*—
Lewin, Edgar M.
Lewin, Edgar M., doing business as Lewin Drug Co., San Francisco, Calif. Antiseptic douche powder and antiseptic vaginal suppository. Serial No. 620,811, Sept. 23. Class 18.
Libenson, Leon, Aspinwall, Pa. Preparation used in the treatment of rheumatoid arthritis and fibrositis. Serial No. 584,282, Sept. 23. Class 18.
Linotape Products Company: *See*—
Tenderich, Gertrude S.
Little Bo Peep Kiddie Co., Inc., New York, N. Y. Baby panties. Serial No. 625,608, Sept. 23. Class 39.
Little, H. C., Burner Co., Inc., San Rafael, Calif. Oil burners, floor furnaces, basement furnaces, etc. Serial No. 592,113, Sept. 23. Class 34.
Lubin-Weeker Co., Inc., New York, N. Y. Men's and boys' pajamas. Serial No. 611,848, Sept. 23. Class 39.
Lucky Day Chemical Co., Herminie, Pa. Washing, bleaching and deodorizing fluid. Serial No. 623,148, Sept. 23. Class 52.
Lusterway Sales Co.: *See*—
McCleary Associates, Inc.
Lustra Corporation of America, Brooklyn, N. Y. Incandescent lamps or bulbs. Serial No. 622,944, Sept. 23. Class 21.
Lyon, A., & Sons, Beverly Hills, Calif. Brandy. Serial No. 622,606, Sept. 23. Class 49.
M. J. B. Co., Wilmington, Del., and San Francisco, Calif. Tea. Serial No. 622,304, Sept. 23. Class 46.
Maas Organ Company, assignee: *See*—
Maas-Rowe Electromusic Corporation.
Maas-Rowe Electromusic Corporation, assignor to Maas Organ Company, Los Angeles, Calif. Electrically operated musical percussion instruments. Serial No. 576,216, Sept. 23. Class 36.
Magnaflux Corporation, Chicago, Ill. Apparatus for measuring wall thickness. Serial No. 624,961, Sept. 23. Class 26.
Magnus, Mabee & Reynard, Inc., New York, N. Y. Liquid flavors used in making non-alcoholic maltless soft drinks. Serial No. 618,271, Sept. 23. Class 45.
Magnus, Mabee & Reynard, Inc., New York, N. Y. Liquid flavors used in making non-alcoholic maltless soft drinks. Serial No. 618,273, Sept. 23. Class 45.
Maillard Corp., The, New York, N. Y. Candy. Serial No. 627,826, Sept. 23. Class 46.
Mansfield, Stanley J., Los Angeles, Calif. Desiccants and odor and moisture absorbents. Serial No. 588,306, Sept. 23. Class 6.
Marn, Jean, Los Angeles, Calif. Concentrate used in making an orange-flavored maltless soft drink. Serial No. 624,143, Sept. 23. Class 45.
Martens, Rene G., Geneva, Switzerland. Food product made from milk. Serial No. 622,395, Sept. 23. Class 46.
Master Chemical Corporation, Toledo, Ohio. Coolant concentrate. Serial No. 626,256, Sept. 23. Class 15.
McCleary Associates, Inc., doing business as Lusterway Sales Co., Memphis, Tenn. Compound containing a detergent and a finishing agent. Serial No. 613,137, Sept. 23. Class 52.
Mears, Richard O., Sacramento, Calif. Ice cream sandwiches. Serial No. 628,546, Sept. 23. Class 46.
Medex Supply Company, The, Denver, Colo. Pessaries. Serial No. 593,424, Sept. 23. Class 44.
Melville Confections, Inc.: *See*—
Harris, Woodson Co., Inc.
Mercantile Stores Company, Inc., Wilmington, Del. Bicycles, baby carriages, strollers, etc. Serial No. 583,765, Sept. 23. Class 19.
Meyers & Rosser, Dallas, Tex. Enteric coated tablets. Serial No. 621,077, Sept. 23. Class 18.
Mid-States Gummed Paper Co., Chicago, Ill. Gummed paper tape. Serial No. 578,037, Sept. 23. Class 5.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Chemical composition. Serial No. 625,118, Sept. 23. Class 6.
Miracle Adhesives Corporation, New York, N. Y. Ceramic tile cement. Serial No. 626,214, Sept. 23. Class 5.
Mitropa Corporation, New York, N. Y. Photo electric cell actuated color temperature meter. Serial No. 625,287, Sept. 23. Class 26.
Morse Boulger Destructor Company, New York, N. Y. Chemical feeder pump apparatus, and supply tanks and control mechanisms therefor. Serial No. 500,274, Sept. 23. Class 26.
Motor Wheel Corporation, Lansing, Mich. Electric motors. Serial No. 600,903, Sept. 23. Class 21.
Motorola, Inc., Chicago, Ill. Television receiving sets. Serial No. 617,351, Sept. 23. Class 21.
Mulcine Co., The: *See*—
Gross, Lewis A.
Mulcine Company, The: *See*—
Gross, Lewis A.
Mynor Pty. Limited, Mosman, near Sydney, Australia. Non-alcoholic maltless soft drinks, and essences, syrups, and essential oils. Serial No. 575,916, Sept. 23. Class 45.
N. V. Nederlandsche Wolspinnerij, Leiden, Netherlands. Knitted fabrics. Serial No. 603,974, Sept. 23. Class 42.
Narragansett Brewing Company, Cranston, R. I. Ale and beer. Serial No. 600,185, Sept. 23. Class 48.

National Association of Radio and Television Broadcasters, Inc., Wilmington, Del., and Washington, D. C. Broadcasting of television programs. Serial No. 625,859, Sept. 23. Class 104.

National Comics Publications, Inc., New York, N. Y. Periodical publication. Serial No. 625,993, Sept. 23. Class 38.

Nebraska Consolidated Mills Company, Omaha, Nebr. Pancake mixes. Serial No. 590,098, Sept. 23. Class 46.

Neuwirth, Robert S., Floral Park, N. Y. Medicinal confections. Serial No. 623,847, Sept. 23. Class 18.

New England Fish Company, Seattle, Wash. Canned salmon. Serial No. 625,686, Sept. 23. Class 46.

Northrop Aircraft, Inc., Hawthorne, Calif. Airplane control surfaces. Serial No. 607,446, Sept. 23. Class 19.

Onox, Inc., San Francisco, Calif. Germicide, antiseptic and skin toughener. Serial No. 619,351, Sept. 23. Class 18.

Oomphies, Inc., New York, N. Y. Women's casual shoes. Serial No. 615,719, Sept. 23. Class 39.

Ora-Magic Co.: *See*—
Krajian, Aram A.

Pacific Brewing and Malting Co., also doing business as Calco Water Co., San Francisco, Calif. Carbonated water. Serial No. 612,927, Sept. 23. Class 45.

Pacific Cast Iron Pipe and Fitting Co., South Gate, Calif. Plumbing items. Serial No. 622,026, Sept. 23. Class 13.

Packard Motor Car Company, Detroit, Mich. Motor vehicles. Serial No. 616,119, Sept. 23. Class 19.

Packard Motor Car Company, Detroit, Mich. Automotive vehicles. Serial No. 616,299, Sept. 23. Class 19.

Parks-Cramer Company, Fitchburg, Mass. Humidifiers. Serial No. 609,255, Sept. 23. Class 34.

Parkway Textile Company, Inc., North Wilkesboro, N. C. Ladies' and children's panties. Serial No. 620,362, Sept. 23. Class 39.

Payne Coal Sales Company, Inc., Wilkes-Barre, Pa. Publication. Serial No. 625,023, Sept. 23. Class 38.

Pecknay, Irving E., doing business under the name of Variety Bra, New York, N. Y. Brassières. Serial No. 625,368, Sept. 23. Class 39.

Peerless Mattress Company, Inc., Lexington, N. C. Mattresses and box springs. Serial No. 582,184, Sept. 23. Class 32.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Chemotherapeutic agent. Serial No. 626,822, Sept. 23. Class 18.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Chemotherapeutic agent. Serial No. 627,235, Sept. 23. Class 18.

Phillips-Jones Corporation, New York, N. Y. Dress shirts, negligee shirts, work shirts, etc. Serial No. 562,574, Sept. 23. Class 39.

Phillips-Jones Corporation, New York, N. Y. Men's and boys' dress, sport, and work clothing and parts thereof. Serial No. 593,683, Sept. 23. Class 39.

Phoenix Laundry & Dry Cleaning, Inc., Phoenix, Ariz. Dry cleaning and laundry service. Serial No. 591,105, Sept. 23. Class 103.

Pierl, J. G., Company: *See*—
Pierl, John J.

Pierl, John J., executor of the estate of Joseph G. Pierl, deceased, doing business as J. G. Pierl Company, and also as Bestaste Products Company, Buffalo, N. Y. Tomato paste. Serial No. 615,944, Sept. 23. Class 46.

Pierl, Joseph G.: *See*—
Pierl, John J.

Prentiss-Lane, Inc., New York, N. Y. Textile fabrics. Serial No. 624,705, Sept. 23. Class 42.

Prince Macaroni Manufacturing Company, Lowell, Mass. Spaghetti sauce. Serial No. 617,678, Sept. 23. Class 46.

Procter & Gamble Company, The, Cincinnati, Ohio. Compounded animal or vegetable and/or petroleum based product. Serial No. 622,123, Sept. 23. Class 6.

Publishers Syndicate, Chicago, Ill. Comic strip. Serial No. 623,677, Sept. 23. Class 38.

Quaker Oats Company, The, Chicago, Ill. Wheat flour. Serial No. 577,686, Sept. 23. Class 46.

Rahm Instruments, Inc., New York, N. Y. Electromechanical resonator. Serial No. 612,352, Sept. 23. Class 21.

Raleigh Cycle Co. Limited, The, Nottingham, England. Bicycles, motor-bicycles, tricycles, etc. Serial No. 571,622, Sept. 23. Class 19.

Raleigh Industries Limited, Nottingham, England. Bicycles, motor-bicycles, tricycles, etc. Serial No. 589,530, Sept. 23. Class 19.

Ramsey, Lisle, doing business as Aunt Mary's Birthday Clubs of America, Kansas City, Mo. Photographic service. Serial No. 580,320, Sept. 23. Class 100.

Rath Packing Company, The, Waterloo, Iowa. Blended shortening, imitation bologna, smoked pork sausage, etc. Serial No. 618,242, Sept. 23. Class 46.

Rechtschaffer, Jacob, doing business under the name Jay Rechtschaffer, Newburgh, N. Y. Dresses, smocks, and brunch coats. Serial No. 607,353, Sept. 23. Class 39.

Rechtschaffer, Jay: *See*—
Rechtschaffer, Jacobs.

Reed & Carnrick, Jersey City, N. J. Pharmaceutical preparation. Serial No. 620,823, Sept. 23. Class 18.

Rennzit Home Products Co., Philadelphia, Pa. Lubricating oil. Serial No. 619,105, Sept. 23. Class 15.

Roberts & Porter, Inc., Chicago, Ill. Fabric sleeves for dampening rollers of lithographing machines, etc. Serial No. 610,801, Sept. 23. Class 23.

Rockford Textile Mills, Inc., Rockford, Ill. Textile fabrics. Serial No. 603,547, Sept. 23. Class 42.

Rubberset Company, Newark, N. J. Hand cleanser. Serial No. 624,761, Sept. 23. Class 52.

Rudge-Whitworth Limited, Nottingham, England. Bicycles, motor-bicycles, tricycles, and their parts. Serial No. 606,238, Sept. 23. Class 19.

Ruvelson, Phil G., Inc., Minneapolis, Minn. Finger rings. Serial No. 614,846, Sept. 23. Class 28.

S. W. Flower Company: *See*—
Burge, Robert S.

Safeway Stores, Incorporated, Oakland, Calif. Fresh frozen concentrated orange juice, frozen berries, and frozen vegetables. Serial No. 620,690, Sept. 23. Class 46.

Safle Bros. Co. Inc., New York, N. Y. Cotton and synthetic fiber sheeting. Serial No. 623,368, Sept. 23. Class 42.

Sakrete, Inc., St. Bernard, Ohio. Mixtures of cement, sand and aggregate; cement and sand. Serial No. 625,632, Sept. 23. Class 12.

Sanford Sales Corporation, New York, N. Y. Cathartic and laxative preparation. Serial No. 619,853, Sept. 23. Class 18.

Saunders, Bob, Co.: *See*—
Saunders, Robert D.

Saunders, Robert D., doing business as Bob Saunders Co., Watsonville, Calif. Fresh vegetables. Serial No. 625,546, Sept. 23. Class 46.

Sautter, Karl H., doing business as Leo Products, Chicago, Ill. Laxative preparation. Serial No. 621,581, Sept. 23. Class 18.

Schachter, Osias, New York, N. Y. Textile fabrics. Serial No. 624,661, Sept. 23. Class 42.

Schoenfeld Neckwear Company, Inc., Seattle, Wash. Neckties and cravats. Serial No. 597,979, Sept. 23. Class 39.

Schroeder, Hans G., doing business as The General Conveyor Company, Long Island City, N. Y. Conveyor systems and parts. Serial No. 620,692, Sept. 23. Class 23.

Scovill Manufacturing Company, Waterbury, Conn. Garden hose clamps, quick connectors for hose, Y hose connectors, etc. Serial No. 622,780, Sept. 23. Class 13.

Scriptomatic, Inc., assignee: *See*—
Business Systems, Inc.

Sea Hunter Mfg. Co., Inc., Los Angeles, Calif., assignee of W. L. Goon, Seasoned flour preparation. Serial No. 600,773, Sept. 23. Class 46.

Seapak Corporation, doing business as Atlantic Seafood Company, St. Simons Island and Brunswick, Ga. Frozen breaded fantail shrimp. Serial No. 625,216, Sept. 23. Class 46.

Sebel, D., and Company Limited, Erith, Kent, England. Bicycles for children. Serial No. 614,900, Sept. 23. Class 22.

Seger, John D., doing business as The Sheraton Company, New York, N. Y. Stationery. Serial No. 601,338, Sept. 23. Class 37.

Seneca Knitting Mills Co., Inc., Seneca Falls, N. Y. Hosiery and slipper socks. Serial No. 604,039, Sept. 23. Class 39.

7 Seas, The, Houston, Tex. Remoulade sauce and French dressing. Serial No. 594,287, Sept. 23. Class 46.

Shapiro, Clarence M., Chicago, Ill. Weather strip structure for automobile door windows. Serial No. 615,291, Sept. 23. Class 19.

Sheraton Company, The: *See*—
Seger, John D.

Shirlynn Manufacturing Co.: *See*—
Jones, Brown, Abrams Co.

Signore, Pierre B., Co., Inc., New York, N. Y. Fresh Belgian chicory. Serial No. 623,015, Sept. 23. Class 46.

Simoniz Company: *See*—
Simoniz Company, The.

Simoniz Company, The, now by change of name Simoniz Company, Chicago, Ill. Material for providing a water suds. Serial No. 604,274, Sept. 23. Class 52.

Singer Motors Limited, Coventry, England. Motor cars, chassis, and structural parts thereof. Serial No. 617,216, Sept. 23. Class 19.

Skylark Automotive Corporation, The, Culver City, Calif. Rear vision mirrors. Serial No. 619,684, Sept. 23. Class 19.

Smith Mountain Ranch: *See*—
Batkin, Fred, Jr.

Société Anonyme Dite: Messier, Paris, France. Airplanes and helicopters; landing gears for aircraft, etc. Serial No. 602,226, Sept. 23. Class 19.

Societe des Forges & Chantiers de la Meditarrance, Paris, France. Funnels and chimneys for ships and railway locomotives. Serial No. 619,369, Sept. 23. Class 19.

Societe du Figaro, Paris, France. Newspapers, books, periodicals, etc. Serial No. 565,851, Sept. 23. Class 38.

Southeastern Foods, Inc., Brundidge, Ala. Peanut butter; mayonnaise; sandwich spread, etc. Serial No. 619,522, Sept. 23. Class 46.

Southern Potteries, Inc., Erwin, Tenn. China dinnerware, bowls and plates. Serial Nos. 622,729–30, Sept. 23. Class 30.

Speidel Corporation, Providence, R. I. Watch bracelets. Serial No. 623,018, Sept. 23. Class 28.

Speidel Corporation, Providence, R. I. Watch bracelets. Serial No. 623,377, Sept. 23. Class 28.

Speidel Corporation, Providence, R. I. Bracelets. Serial No. 627,905, Sept. 23. Class 28.

Spielmann, Kathryn C., Park Ridge, Ill., assignor to Deridel Inc., Ontario, Calif. Non-carbonated, non-alcoholic maltless soft drink and a concentrate. Serial No. 613,887, Sept. 23. Class 45.

Staley, A. E., Manufacturing Company, Decatur, Ill. Starch. Serial No. 608,769, Sept. 23. Class 6.

Steckler, Nat P., doing business under the name of E-Z Products, New York, N. Y. Ear drum protectors and nose clips for swimming and sport purposes. Serial No. 520,190, Sept. 23. Class 22.

Stehling, Chas H., Company, Milwaukee, Wis. Hide and leather working machines. Serial No. 622,854, Sept. 23. Class 23.

Stetson China Co., Inc., Lincoln, Ill. Dinnerware. Serial No. 611,586, Sept. 23. Class 30.

Stetson, John B., Company, Philadelphia, Pa. Men's hats, caps, dress shirts, etc. Serial No. 615,802, Sept. 23. Class 39.

Stevens, John, Palisades, N. Y. Liquid preparation applied to the hands to prevent slipping of golf clubs, bars, and other sporting equipment. Serial No. 605,692, Sept. 23. Class 6.

Stoffel & Co., New York, N. Y. Cotton fabrics. Serial No. 624,980, Sept. 23. Class 42.

Stuelpnagel's Inc., Yankton, S. Dak. Shell and frozen eggs. Serial No. 616,650, Sept. 23. Class 46.

Sturmey-Archer Gears Limited, Nottingham, England. Combined bicycle hubs and electric generators. Serial No. 599,032, Sept. 23. Class 19.

Sun Rubber Company, The, Barberton, Ohio. Basketballs, footballs, soccer balls, etc. Serial No. 622,856, Sept. 23. Class 22.

Sun Rubber Company, The, Barberton, Ohio. Basketballs and footballs. Serial No. 622,859, Sept. 23. Class 22.

Sun Rubber Company, The, Barberton, Ohio. Basketballs, soccer balls, volley balls, etc. Serial No. 622,860, Sept. 23. Class 22.

Sun Rubber Company, The, Barberton, Ohio. Basketballs. Serial No. 622,863, Sept. 23. Class 22.

Tavaro S. A., Geneva, Switzerland. Locks. Serial No. 623,216, Sept. 23. Class 25.

Television Guide, Inc., New York, N. Y. Column in printed periodicals and magazines. Serial Nos. 625,220–1, Sept. 23. Class 38.

Television Guide, Inc., New York, N. Y. Column in a periodical. Serial No. 625,223, Sept. 23. Class 38.

Television Guide, Inc., New York, N. Y. Column in a periodical. Serial No. 625,315, Sept. 23. Class 38.

Tenderich, Gertrude S., doing business as Linotape Products Company, Denver, Colo. Products, equipment and material, as a complete kit and employed in a process of applying contrasting colors to type setting matrices, etc. Serial No. 609,987, Sept. 23. Class 50.

Theta Sigma Upsilon Sorority, Denver, Colo. Sorority pins, finger rings, and badges. Serial No. 620,699, Sept. 23. Class 28.

Thorens Company, New Hyde Park, N. Y. Electric motors, electric phonographs, electric record-changers and radios. Serial No. 619,317, Sept. 23. Class 21.

Tremco Manufacturing Company, The, Cleveland, Ohio. Liquid chemicals. Serial No. 623,438, Sept. 23. Class 52.

Trombetta, Panfilo, Milwaukee, Wis. Prime movers of the electrical type. Serial Nos. 610,595–6, Sept. 23. Class 21.

Tropical Sales: *See*—
Holmyard, Harold R.

Tubesales, Los Angeles, Calif. Carbon, alloy, and stainless steel tubing. Serial No. 625,773, Sept. 23. Class 13.

United States Tobacco Company, assignee: *See*—
Fleming-Hall Tobacco Co., Inc.

United States Tobacco Company, Flemington, N. J., and New York, N. Y. Snuff. Serial No. 598,127, Sept. 23. Class 17.

U. S. Trade School, Inc., Kansas City, Mo. Vocational instruction. Serial No. 576,727, Sept. 23. Class 107.

Upjohn Company, The, Kalamazoo, Mich. Combination of vegetable oils and dextrose. Serial No. 620,480, Sept. 23. Class 46.

Upjohn Company, The, Kalamazoo, Mich. Pharmaceutical preparation. Serial No. 628,882, Sept. 23. Class 18.

Valcourt, Joseph S., Fall River, Mass. Hair tonic. Serial No. 610,931, Sept. 23. Class 51.

Van Pelt and Brown, Incorporated, Richmond, Va. Sex hormone. Serial No. 624,112, Sept. 23. Class 18.

Van Raalte Company, Inc., New York, N. Y. Women's and misses' underwear. Serial No. 625,929, Sept. 23. Class 39.

Vapo Systems Company, Maywood, Ill. Apparatus for air-spraying. Serial No. 617,936, Sept. 23. Class 23.

Variety Bra: *See*—
Pecknay, Irving E.

Vinton's, Menomonie, Wis. Ladies' brief panties. Serial No. 599,355, Sept. 23. Class 39.

Vistex Corporation, New York, N. Y. Ribbon and tape. Serial No. 627,412, Sept. 23. Class 7.

Volello, Frank, Brooklyn, N. Y. Macaroni. Serial No. 626,183, Sept. 23. Class 46.

Warren Products Limited, London, England. Electrical parts. Serial No. 583,059, Sept. 23. Class 21.

Washburn Laboratories, Inc., St. Paul, Minn. Lotion. Serial No. 605,772, Sept. 23. Class 51.

Webster Company, Inc., Scranton, Pa. Men's and boys' trousers and slacks. Serial No. 621,094, Sept. 23. Class 39.

Weinstock Importing Corp., New York, N. Y. Herring fillets. Serial No. 624,620, Sept. 23. Class 46.

West Disinfecting Company, Long Island City, N. Y. Powdered toilet bowl cleaner. Serial No. 621,041, Sept. 23. Class 52.

West Disinfecting Company, Long Island City, N. Y. Liquid insecticide. Serial No. 625,148, Sept. 23. Class 6.

West Disinfecting Company, Long Island City, N. Y. Deodorizing fluid. Serial No. 625,156, Sept. 23. Class 6.

Wheeler and Stuckey, Oklahoma City, Okla. Anti-spasmodic. Serial No. 627,104, Sept. 23. Class 18.

Whirlaway Egg Washer Company, Harrisburg, Pa. Electrically heated egg washers. Serial No. 620,795, Sept. 23. Class 21.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. Serial No. 565,670–1, Sept. 23. Class 46.

Womble-Campbell Mfg. Co., Hereford, Tex. Women's, misses', and children's slips, panties, pajamas and night gowns. Serial No. 626,485, Sept. 23. Class 39.

Wyeth Incorporated, Philadelphia, Pa. Powdered food formula. Serial No. 621,296, Sept. 23. Class 46.

Yakima County Horticultural Union, Yakima, Wash. Canned pears. Serial No. 626,066, Sept. 23. Class 46.

Yates-American Machine Company, Beloit, Wis. Heat transfer products—namely, coolers and intercoolers. Serial No. 605,775, Sept. 23. Class 31.

LIST OF REGISTRANTS OF TRADE-MARKS

A and O Company, Incorporated, The, Greensboro, N. C. Medicinal preparation. 564,370, Sept. 23; Serial No. 608,845, published May 27, 1952. Class 18.

A 1 Plastic Molders, Inc., Chicago, Ill. Plastic wall tile. 564,460, Sept. 23; Serial No. 620,652, published June 17, 1952. Class 12.

Abbott Laboratories, North Chicago, Ill. Oral preparation in tablet form. 564,328, Sept. 23; Serial No. 599,735, published June 3, 1952. Class 18.

Accurate Parts Manufacturing Company, Cleveland, Ohio. Clutch plates and discs. 298,002, renewed Oct. 11, 1952. O. G. Sept. 23. Class 23.

Accurate Parts Manufacturing Company, Cleveland, Ohio. Clutch plates and discs. 298,077, renewed Oct. 11, 1952. O. G. Sept. 23. Class 23.

Actual Lure Co., Inc., The, New York, N. Y. Fish lures. 564,531, Sept. 23; Serial No. 620,653. Class 22.

Adelaur Bros., Inc., New York, N. Y. Girls', misses', and ladies' skirts and blouses. 549,732, Oct. 16, 1951. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 39.

Akers, Lynn R., Louisville, Ky. Shampoo. 564,537, Sept. 23; Serial No. 623,940. Class 52.

Alcon Laboratories, Inc., Fort Worth, Tex. Isotonic ophthalmic preparation. 564,359, Sept. 23; Serial No. 607,469, published June 3, 1952. Class 18.

All Drugs International Company, New York, N. Y. Medicinal preparations. 564,332, Sept. 23; Serial No. 601,971, published June 3, 1952. Class 18.

Allen Foods, Inc., St. Louis, Mo. Canned vegetables; canned fruits and berries; etc. 564,315, Sept. 23; Serial No. 593,455, published July 1, 1952. Class 46.

Allen, Mark, Co., Detroit, Mich. Detergent preparation. 564,297, Sept. 23; Serial No. 586,263, published June 17, 1952. Class 52.

Allen, T. V., Company, Los Angeles, Calif. Stationery. 564,446, Sept. 23; Serial No. 619,325, published July 1, 1952. Class 37.

Allied Chemical & Dye Corporation, New York, N. Y. Miticides. 564,440, Sept. 23; Serial No. 619,001, published June 24, 1952. Class 6.

Allied Drugs, Inc., Hackensack, N. J. Medicinal tablet. 564,281, Sept. 23; Serial No. 579,248, published Jan. 29, 1952. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Ointment. 564,445, Sept. 23; Serial No. 619,281, published May 13, 1952. Class 18.

Alligator Company, The, St. Louis, Mo. Raincoats and topcoats for men. 564,342, Sept. 23; Serial No. 603,659, published July 1, 1952. Class 39.

American Air Filter Company, Inc., Louisville, Ky. Rolls of paper. 564,383, Sept. 23; Serial No. 610,658, published June 3, 1952. Class 37.

American Alcolac Corporation, New York, N. Y. Detergents. 564,323, Sept. 23; Serial No. 596,822, published July 8, 1952. Class 52.

American Bed & Spring Company, The, St. Louis, Mo. Sofas, beds, and folding sofa bed constructions. 564,277, Sept. 23; Serial No. 578,755, published July 8, 1952. Class 32.

American Cyanamid Company, New York, N. Y. Troche containing an antibiotic. 564,425, Sept. 23; Serial No. 615,742, published May 27, 1952. Class 18.

American Cystoscope Makers, Inc., New York, N. Y. Preparation to be taken internally for the purpose of serving as an X-ray contrast medium. 564,386, Sept. 23; Serial No. 611,012, published June 24, 1952. Class 18.

American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Cabinets. 564,285, Sept. 23; Serial No. 580,867, published July 1, 1952. Class 2.

American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Cabinets. 564,286, Sept. 23; Serial No. 580,870, published July 1, 1952. Class 2.

American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Cabinets. 564,287, Sept. 23; Serial No. 580,872, published July 1, 1952. Class 2.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Packing for pipe-joints. 564,424, Sept. 23; Serial No. 615,434, published July 8, 1952. Class 35.

Ames Company, Inc., Elkhart, Ind. Sedative preparation. 564,365, Sept. 23; Serial No. 608,140, published June 3, 1952. Class 18.

Amity Leather Products Co., West Bend, Wis. Combined billfold and coin purse. 564,369, Sept. 23; Serial No. 608,651, published July 1, 1952. Class 3.

Ansehl, Benjamin, doing business as The Benjamin Ansehl Company, University City, to The Benjamin Ansehl Company, St. Louis, Mo. Preparation for dressing the hair. 295,608, renewed July 5, 1952. O. G. Sept. 23. Class 51.

Ansehl, Benjamin Company, The: *See*—
Ansehl, Benjamin.

Arcum Pharmaceutical Corporation, The, Wilmington, Del., and Washington, D. C. Sedative and diuretic. 564,302, Sept. 23; Serial No. 587,458, published May 27, 1952. Class 18.

Arcum Pharmaceutical Corporation, The, Washington, D. C. Sedative and antispasmodic. 564,303, Sept. 23; Serial No. 587,459, published May 27, 1952. Class 18.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets. 564,437, Sept. 23; Serial No. 618,670, published July 8, 1952. Class 3.

Arkwright Merchandising Corporation, New York, N. Y. Toilet seats, toilet bowls, and parts thereof. 564,473, Sept. 23; Serial No. 622,523, published July 8, 1952. Class 13.

Arrow-Hart & Hegeman Electric Company, The: *See*—
Hart & Hegeman Manufacturing Company, The.

Artcraft Silk Hosiery Mills, Inc., to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Hosiery. 294,336, renewed May 24, 1952. O. G. Sept. 23. Class 39.

Artcraft Silk Hosiery Mills, Inc., to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. 298,560, renewed Nov. 1, 1952. O. G. Sept. 23. Class 39.

Atkins & Durbrow, Inc., New York, N. Y. Peat moss. 199,136, June 2, 1925. Republished Sept. 23. Class 1.

Atlas Supply Company, Newark, N. J. Automobile radiator antifreeze compound, automobile radiator cleaning compound, etc. 296,241, Aug. 2, 1932. Cancelled as improperly issued. O. G. Sept. 23. Class 52.

Auzin, John M., Whitman, Mass. Toy. 564,300, Sept. 23. Serial No. 587,173, published July 8, 1952. Class 22.

Baker Castor Oil Company, The, Jersey City, N. J. Wax-like material. 564,387, Sept. 23; Serial No. 611,064, published June 24, 1952. Class 6.

Barrison, John A., doing business as John A. Barrison Building Specialties, Thornton, Ind. Roll type door assemblies. 564,524, Sept. 23; Serial No. 612,675. Class 12.

Barrison, John A., Building Specialties: *See*—
Barrison, John A.

Barton, Duer & Koch Paper Company, The, Baltimore, Md. Printing paper and correspondence envelopes. 564,463, Sept. 23; Serial No. 620,952, published June 24, 1952. Class 37.

Baxter Laboratories, Inc., Morton Grove, Ill. Nasal catheters, stomach tubes, rectal tubes, etc. 564,305, Sept. 23; Serial No. 589,065, published July 8, 1952. Class 44.

Bay State Abrasive Products Company, Westboro, Mass. Grinding, abrading, polishing, cutting-off, and knife sharpening wheels. 564,316, Sept. 23; Serial No. 593,906, published Nov. 13, 1951. Class 4.

Bebry Bedding Corporation, Bayonne, N. J. Convertible sofas and convertible chairs. 564,465, Sept. 23; Serial No. 621,048, published July 8, 1952. Class 32.

Bell and Thorne, Inc., Newark, N. J. Laxative. 564,355, Sept. 23; Serial No. 606,848, published June 24, 1952. Class 18.

Benmont Papers Inc., Bennington, Vt. Wrapping paper. 564,327, Sept. 23; Serial No. 599,491, published July 8, 1952. Class 37.

Bentley Engineering Company, Limited, The: *See*—
Bentley Engineering Company, The.

Bentley Engineering Company, The, to The Bentley Engineering Company, Limited, Leicester, England. Knitting machinery and parts thereof. 291,035, renewed Jan. 26, 1952. O. G. Sept. 23. Class 23.

Bernheim Distilling Company, Louisville, Ky., by Schenley Distillers, Inc., New York, N. Y. Whiskey. 410,806, Dec. 19, 1944. Republished Sept. 23. Class 49.

Bernhoft Laboratories: *See*—
Bernhoft Laboratories, Inc.

Bernhoft Laboratories, Inc., doing business under the name and style of Bernhoft Laboratories, Bremerton, Wash. Medicinal preparation. 564,361, Sept. 23; Serial No. 607,536, published June 17, 1952. Class 18.

Blacksmith Shop: *See*—
Smith, William P. C.

Blount, E. B., Sons, to Blount Seafood Corporation, Warren, R. I. Fresh oysters. 293,109, renewed Apr. 12, 1952. O. G. Sept. 23. Class 46.

Blount Seafood Corporation: *See*—
Blount, E. B., Sons.

Bon Ami Company, The, New York, N. Y. Tooth paste. 297,182, renewed Sept. 6, 1952. O. G. Sept. 23. Class 51.

Bosch & Co., Badalona, near Barcelona, Spain. Anisette. 86,271, re-renewed Apr. 30, 1952. O. G. Sept. 23. Class 49.

Boston Gear Works, Inc., to The Murray Company of Texas, Inc., North Quincy, Mass. Chains for sprocket wheels. 297,990, renewed Oct. 11, 1952. O. G. Sept. 23. Class 13.

Boston Gear Works, Inc., to The Murray Company of Texas, Inc., North Quincy, Mass. Spur gears, worm gears and worms therefor, etc. 298,486, renewed Oct. 25, 1952. O. G. Sept. 23. Class 23.

Bostwick Laboratories, Inc., Bridgeport, Conn. Automobile and furniture wax. 564,374, Sept. 23; Serial No. 609,776, published July 8, 1952. Class 4.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Antihistaminic compound. 564,354, Sept. 23; Serial No. 606,747, published May 27, 1952. Class 18.

Bristol-Myers Company, to Bristol-Myers Company, New York, N. Y. Hair tonic. 294,839, renewed June 7, 1952. O. G. Sept. 23. Class 51.

British Oilfield Equipment Co. Limited, Hunslet, Leeds, England. Constructional metal. 564,396, Sept. 23; Serial No. 612,149, published June 17, 1952. Class 12.

Broil-Quik Company, assignee: *See*—
Broil-Quik, Inc.

Broil-Quik, Inc., assignor to Broil-Quik Company, New York, N. Y. Electric broilers. 564,520, Sept. 23; Serial No. 610,306. Class 21.

Brown Shoe Company, Inc., St. Louis, Mo. Shoes. 298,046, renewed Oct. 11, 1952. O. G. Sept. 23. Class 39.

Burton-Dixie Corporation, to Burton-Dixie Corporation, Chicago, Ill. Pillows. 298,526, renewed Nov. 1, 1952. O. G. Sept. 23. Class 32.

Buxbaum Company, The, Canton, Ohio. Tire and tube repair patches. 564,415, Sept. 23; Serial No. 614,336, published June 24, 1952. Class 35.

Cantine, Martin, Company, The, Saugerties, N. Y. Book paper. 564,257, Sept. 23; Serial No. 541,558, published July 1, 1952. Class 37.

Carbolov Company, Inc., Detroit, Mich., to General Electric Company, Schenectady, N. Y. Hard metal composition or alloy. 297,659–60, renewed Sept. 27, 1952. O. G. Sept. 23. Class 14.

Carrick, William R., Worcester, Mass. Life insurance brokerage services. 564,493, Sept. 23; Serial No. 593,648, published July 1, 1952. Class 102.

Caterpillar Tractor Co., Peoria, Ill. 564,272, Sept. 23. Dump-wagons, wheel tractor-dump-wagon combinations, etc., Serial No. 575,190, published Apr. 15, 1952, Class 19; electric generators and diesel electric generator sets, and parts furnished with said products, Serial No. 574,204, published Mar. 6, 1951, Class 21; diesel and other internal combustion engines, etc., Serial No. 574,205, published Apr. 29, 1952, Class 23. (Consolidated certificate, Classes 19, 21, and 23.)

Cavanagh, John, Ltd., New York, N. Y., to Hat Corporation of America, Norwalk, Conn. Caps and hats. 293,326, renewed Apr. 19, 1952. O. G. Sept. 23. Class 39.

Central Ice Cream Company, Chicago, Ill. Ice cream. 564,338, Sept. 23; Serial No. 602,800, published July 1, 1952. Class 46.

Chapman Chemical Company, Memphis, Tenn. Water repellent wood preservative. 564,488, Sept. 23; Serial No. 624,930, published June 24, 1952. Class 6.

Chase, Daryl, Logan, Utah. Novelty toy savings banks. 564,294, Sept. 23; Serial No. 585,217, published June 17, 1952. Class 22.

Chiburnol, Perry H., Inc., New York, N. Y. Macaroons. 510,881, June 14, 1949. Canceled July 29, 1952. O. G. Sept. 23. Class 46.

Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Antiseptic. 564,363, Sept. 23; Serial No. 607,937, published June 3, 1952. Class 18.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Ciba Limited.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Preparation for the treatment of diseases of the thyroid. 564,371, Sept. 23; Serial No. 609,076, published May 27, 1952. Class 18.

Cincinnati Rubber Mfg. Co., The, Norwood, Ohio. Belting, hose and packing. 564,292, Sept. 23; Serial No. 584,107, published July 24, 1951. Class 35.

Clayglor Corporation, New York, N. Y. Canned and frozen fruits and vegetables. 564,431, Sept. 23; Serial No. 617,107, published June 17, 1952. Class 46.

Clearfield Cheese Co., Inc., Curwensville, Pa. Pasteurized process American cheese spread. 564,528, Sept. 23; Serial No. 617,783. Class 46.

Cleary, W. A., Corporation, New Brunswick, N. J. Chemical compositions. 564,489, Sept. 23; Serial No. 625,194, published June 24, 1952. Class 6.

Clover Farm Stores: *See*—
Grocers & Producers Co., The.

Clover Farm Stores Corporation: *See*—
Grocers & Producers Co., The.

Colgate & Co., New York, N. Y., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soaps and soap powders. 88,666, re-renewed Oct. 15, 1952. O. G. Sept. 23. Class 52.

Colgate-Palmolive-Peet Company: *See*—
Colgate & Co.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. 564,401, Sept. 23; Serial No. 612,849, published July 8, 1952. Class 52.

Colorado Milling & Elevator Co., The, Denver, Colo., doing business as The Springfield Flour Mills, Springfield, Mo. Wheat flour. 564,259, Sept. 23; Serial No. 557,503, published June 17, 1952. Class 46.

Colson Corporation, The, Elyria, Ohio. Wheeled stretchers, elevating litter stretchers, etc. 564,276, Sept. 23; Serial No. 578,570, published July 8, 1952. Class 44.

Colura Feminine Fashions, Inc., New York, N. Y. Women's and children's bed jackets, nightgowns and pajamas. 531,832, Oct. 10, 1950. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 39.

Commercial Solvents Corporation, New York, N. Y. Vitamin B_{12} supplement. 564,362, Sept. 23; Serial No. 607,796, published June 3, 1952. Class 18.

Conrad Rice Milling and Planting Company, New Iberia, La. Rice. 564,372, Sept. 23; Serial No. 609,167, published June 10, 1952. Class 46.

Container Corporation of America, Chicago, Ill. Fibreboard and corrugated-board boxes, and shipping cartons. 564,390, Sept. 23; Serial No. 611,641, published June 24, 1952. Class 2.

Continental Can Company, Inc.: *See*—
Mono Service Co.

Convert-O-Shield, Inc., Long Beach, Calif. Anti-draft shields. 564,512, Sept. 23; Serial No. 597,814. Class 19.

Core, James A., trading under the name of Neo-Craft Manufacturing Co., Detroit, Mich. Games. 564,339, Sept. 23; Serial No. 603,050, published July 8, 1952. Class 22.

Cory Corporation, operating under the name Nicro Steel Products Co. Division of Cory Corporation, Chicago, Ill. Filters. 564,484, Sept. 23; Serial No. 624,229, published June 10, 1952. Class 31.

Cracker Jack Co., The, Chicago, Ill. Shelled popcorn. 297,903, renewed Oct. 4, 1952. O. G. Sept. 23. Class 46.

Crossfield Products Corporation, assignee: *See*—
Marine Development Corporation.

Crowley, Henry L., & Company, Inc., West Orange, N. J. Metallic oxide powder. 564,435, Sept. 23; Serial No. 617,747, published June 24, 1952. Class 6.

Crown Toy Mfg. Corp., New York, N. Y. Optical illusion toy. 564,510, Sept. 23; Serial No. 596,394. Class 22.

Crown Zellerbach Corporation, also doing business as Western Waxed Paper Company, San Francisco, Calif. Waxed paper food dividers. 564,310, Sept. 23; Serial No. 591,613, published June 3, 1952. Class 37.

Crown Zellerbach Corporation, San Francisco, Calif. Paper napkins and paper towels. 564,448, Sept. 23; Serial No. 619,452, published June 3, 1952. Class 37.

Crown Zellerbach Corporation, San Francisco, Calif. Toilet tissue. 564,470, Sept. 23; Serial No. 622,012, published June 10, 1952. Class 37.

Cubbage & Co., Shreveport, La. Antiseptic preparation. 564,345, Sept. 23; Serial No. 604,771, published June 3, 1952. Class 18.

Currier Company, Oakland, Calif. Liquid solvents. 564,309, Sept. 23; Serial No. 591,151, published July 8, 1952. Class 52.

d-Con Company, Inc., Chicago, Ill. Rodenticides. 564,469, Sept. 23; Serial No. 621,757, published June 24, 1952. Class 6.

D. & H. Mfg. Co., Modesto, Calif. Cleaner for watch and clock mechanisms. 564,275, Sept. 23; Serial No. 578,492, published June 17, 1952. Class 52.

Danbury Rubber Company, Inc., The, Danbury, Conn. Rubber tire recapping or retreading stock and tire repair material. 564,348, Sept. 23; Serial No. 606,000, published June 24, 1952. Class 35.

D'Este, Julian, Company, Boston, Mass., by Kaye and MacDonald, Inc., West Orange, N. J. Pressure regulators, combustion controls, steam traps, etc. 230,461, July 26, 1927. Republished Sept. 23. Class 13.

Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany. Steamships, motor ships, sailing vessels, etc. 258,384, renewed July 9, 1949. O. G. Sept. 23. Class 19.

Devoe & Raynolds Company, Inc.: *See*—
Truscon Laboratories, The.

Diamond Alkali Company, Cleveland, Ohio. Chromic acid. 564,419, Sept. 23; Serial No. 614,653, published June 24, 1952. Class 6.

Dickerson Company, The: *See*—
Dickerson, E. S., Jr.

Dickerson, E. S., Jr., doing business as The Dickerson Company, Philadelphia, Pa. Oil, grease and moisture absorbent. 564,265, Sept. 23; Serial No. 567,190, published May 17, 1949. Class 52.

Di-Fram-Ette, Inc., assignee of Marie Mayer, Denver, Colo. Pessaries. 564,506, Sept. 23; Serial No. 589,586. Class 44.

Dorr Company, Inc., The, New York, N. Y., to The Dorr Company, Stamford, Conn. Apparatus for the treatment of solids suspended in liquids. 295,572, renewed July 5, 1952. O. G. Sept. 23. Class 23.

Dorr Company, The: *See*—
Dorr Company, Inc., The.

du Pont, E. I., de Nemours and Company, Wilmington, Del. Unsensitized photographic film. 564,436, Sept. 23; Serial No. 618,232, published July 1, 1952. Class 50.

Dust Filter Company: *See*—
Lund, Arnold L.

Eagle-Picher Company, The, Cincinnati, Ohio. Mineral wool asbestos cement. 564,376, Sept. 23; Serial No. 610,008, published May 27, 1952. Class 12.

Eastern Isles, Inc., The, New York, N. Y. Bed jackets, brunch coats, house coats, house dresses, etc. 518,509, Dec. 6, 1949. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 39.

Ebco Manufacturing Company, The, Columbus, Ohio. Electrically actuated, refrigerated beverage coolers and dispensers. 564,464, Sept. 23; Serial No. 621,004, published June 10, 1952. Class 31.

Edward Valves, Inc., East Chicago, Ind. Piping attachment for producing differential pressure. 564,468, Sept. 23; Serial No. 621,661, published July 8, 1952. Clas 13.

Egry Register Company, The, Dayton, Ohio. Mechanical device adapted for attachment to typewriters. 564,336, Sept. 23; Serial No. 602,312, published June 24, 1952. Class 23.

Elco Grease & Oil Company, The, to The Elco Lubricant Corporation, Cleveland, Ohio. Lead base lubricating grease. 292,691, renewed Mar. 22, 1952. O. G. Sept. 23. Class 15.

Elco Lubricant Corporation, The: *See*—
Elco Grease & Oil Company, The.

Elfenbein, Irving H., New York, N. Y. Women's and children's bedjackets, nightgowns, and pajamas. 421,313, May 28, 1946. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 39.

Elgin Knit Sportswear, Inc., New York, N. Y. Women's sweaters and sweater ensembles. 564,500, Sept. 23; Serial No. 565,325. Class 39.

Elgin National Watch Company, Elgin, Ill. Watches, watch movements, and watch cases. 297,034, Aug. 30, 1932. Republished Sept. 23. Class 27.

Ellinger, O. Robert, doing business under the name and style of Sweet Fern Lotion Company, Hasbrouck Heights, N. J. Medicinal lotion. 564,428, Sept. 23; Serial No. 616,281, published May 27, 1952. Class 18.

Empire Varnish Company, The: *See*—
Waterlox, Inc.

Esco Cabinet Company, West Chester, Pa. Milk coolers. 564,367, Sept. 23; Serial No. 608,397, published June 10, 1952. Class 31.

Essential Cosmetics Inc., New York, N. Y. Cosmetic preparations. 541,226, Apr. 17, 1951. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 51.

Exhibit Supply Co., The, Chicago, Ill. Electrical switches. 564,517, Sept. 23; Serial No. 607,704. Class 21.

F. Pallicio y Compañia, S. A. Fábrica de Tabacos: *See*—
Fernandez, Pallicio y Compania, S. en C.

Farbenfabriken of Elberfeld Co., to Winthrop-Stearns Inc., New York, N. Y. Diuretic. 39,135, re-renewed Oct. 28, 1952. O. G. Sept. 23. Class 18.

Farquhar, A. B., Company, York, Pa. Plows, plow stocks, steam engines, etc. 564,397, Sept. 23; Serial No. 612,200, published June 10, 1952. Class 23.

Fay, Edward J., New York, N. Y. Fungicide for veterinary use. 564,408, Sept. 23; Serial No. 613,219, published May 27, 1952. Class 18.

Feltrok Insulation Manufacturing Company: *See*—
Rusden, Charles J.

Fernandez, Pallicio y Compania, S. en C., to F. Pallicio y Compañia, S. A. Fábrica de Tabacos, Habana, Cuba. Cigars. 297,479, renewed Sept. 13, 1952. O. G. Sept. 23. Class 17.

Ferro Chemical Corporation, Bedford, Ohio. Fungicides. 564,382, Sept. 23; Serial No. 610,546, published June 24, 1952. Class 6.

Ferry-Morse Seed Co., Detroit, Mich., Seeds. 564,318, Sept. 23; Serial No. 594,441, published July 8, 1952. Class 1.

Flat Metal Manufacturing Company, Franklin Park, Ill. Shower doors. 564,389, Sept. 23; Serial No. 611,511, published June 17, 1952. Class 12.

Flint, Eaton and Company, Decatur, Ill. Topical local anesthetic. 564,289, Sept. 23; Serial No. 581,654, published June 24, 1952. Class 18.

Fluegelman, N., & Co., Inc., to N. Fluegelman & Co., Inc., New York, N. Y. Woolen, silk, cotton, rayon, and/or combinations thereof in the piece. 297,882, renewed Oct. 4, 1952. O. G. Sept. 23. Class 42.

Foam Rubber Products, Miami, Fla. Upholstered sofas, chairs, love seats, etc. 564,368, Sept. 23; Serial No. 608,416, published July 8, 1952. Class 32.

Frosst, Charles E., & Co., Montreal, Quebec, Canada. Pharmaceutical preparation. 564,347, Sept. 23; Serial No. 605,302, published June 3, 1952. Class 18.

G & P Co., Wilmette, Ill. Compound comprising detergent and insecticide ingredients. 564,418, Sept. 23; Serial No. 614,621, published July 1, 1952. Class 52.

Garrick and Custer, Inc., Los Angeles, Calif. Rotary gear, sliding recessed door unit, complete with frame. 564,350, Sept. 23; Serial No. 606,289, published June 3, 1952. Class 12.

Gates Rubber Company, The, Denver, Colo. Power transmission belts. 564,451, Sept. 23; Serial No. 619,703, published July 8, 1952. Class 35.

General Building Materials, Inc., South Bend, Ind. Preformed window construction. 564,388, Sept. 23; Serial No. 611,129, published June 17, 1952. Class 12.

General Cable Corporation, New York, N. Y. Electrical wires and cables. 564,507, Sept. 23; Serial No. 591,028. Class 21.

General Electric Company: *See*—
Carboloy Company, Inc.

General Electric Company, Schenectady, N. Y. Composite dielectric or resistance material. 294,289, renewed May 24, 1952. O. G. Sept. 23. Class 21.

General Electric Company, Schenectady, N. Y. Capacitors and dielectric material. 296,981, renewed Aug. 30, 1952. O. G. Sept. 23. Class 21.

General Grocery Co., Phoenix, Ariz. Canned fruits and vegetables. 394,951, May 5, 1942. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 46.

General Tire & Rubber Company, The, Akron, Ohio. Sponge rubber carpet cushions. 564,455, Sept. 23; Serial No. 619,936, published June 24, 1952. Class 50.

Geneva Corporation, The, Lake Geneva, Wis. Blue cheese. 403,914, Oct. 19, 1943. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 46.

Giviemme, S. A., Milan, Italy. Perfumes and toilet water. 564,501, Sept. 23; Serial No. 566,112. Class 51.

Goldhammer, Charles W., doing business as Industrial Sheet Metal Works, North Bergen, N. J. Dust collectors, dust conveyors and separating units. 564,290, Sept. 23; Serial No. 582,835, published June 3, 1952. Class 23.

Graded Egg Co.: *See*—
Marriott, Roy G.

Graton & Knight Company, Worcester, Mass. Leather belting. 298,524, renewed Nov. 1, 1952. O. G. Sept. 23. Class 35.

Gray, William S., & Co., New York, N. Y. Chemical products. 298,612, renewed Nov. 1, 1952. O. G. Sept. 23. Class 6.

Great Lakes Carbon Corporation, New York, N. Y. Diatomaceous earth in finely comminuted form for use as a filter aid. 564,261, Sept. 23; Serial No. 562,703, published June 10, 1952. Class 31.

Green, A. P., Fire Brick Company, Mexico, Mo. Refractory concrete mixture. 564,427, Sept. 23; Serial No. 616,094, published June 3, 1952. Class 12.

Greenbaum, Jack, New York, N. Y. Ladies' handbags. 564,485, Sept. 23; Serial No. 624,536, published July 1, 1952. Class 3.

Gregory, Waylande, Bound Brook, N. J. Crockery, earthenware, and porcelain products. 564,511, Sept. 23; Serial No. 596,419. Class 30.

Grocers & Producers Co., The, doing business as Clover Farm Stores, to Clover Farm Stores Corporation, Cleveland, Ohio. Toothpicks. 294,143, renewed May 17, 1952. O. G. Sept. 23. Class 44.

HCO Laboratories: *See*—
Jennings, Chester A.

Haas Miller Corporation, Philadelphia, Pa. Wetting agent. 564,491, Sept. 23; Serial No. 625,599, published June 24, 1952. Class 6.

Haft, Morris W., & Brothers, Inc., to The House of Swansdown, Inc., New York, N. Y. Woolen piece goods, and woolen suitings and coatings. 295,674, renewed July 5, 1952. O. G. Sept. 23. Class 42.

Hamilton Metal Products Company, The, Hamilton, Ohio. Insulated portable bucket. 564,399, Sept. 23; Serial No. 612,611, published June 24, 1952. Class 2.

Hammond Ice Cream Co., Inc., Malden, Mass. Frozen confections. 564,472, Sept. 23; Serial No. 622,436, published June 24, 1952. Class 46.

Hanna Engineering Works, Chicago, Ill. Air cylinders of the shock absorbing type. 564,502, Sept. 23; Serial No. 574,097. Class 19.

Hard & Rand, Inc., New York, N. Y. Coffee. 564,481, Sept. 23; Serial No. 623,782, published July 1, 1952. Class 46.

Hart Drug Corporation, Miami, Fla. Inhalants. 297,515, renewed Sept. 20, 1952. O. G. Sept. 23. Class 18.

Hart, Earle, Woodworking Machine Co., Chicago, Ill. Woodworking machinery. 564,263, Sept. 23; Serial No. 563,337, published June 24, 1952. Class 23.

Hart & Hegeman Manufacturing Company, The, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn. Electrical switches, elcetrical cut-outs, switch-plates, etc. 88,676, re-renewed Oct. 15, 1952. O. G. Sept. 23. Class 21.

Harter Milling Co., The, Toledo and Fostoria to The Mennel Milling Company, Toledo, Ohio. Wheat-flour. 88,874, re-renewed Oct. 29, 1952. O. G. Sept. 23. Class 46.

Haskelite Manufacturing Corporation, Grand Rapids, Mich. Laminated material adapted for structural use. 564,326, Sept. 23; Serial No. 599,375, published July 1, 1952. Class 12.

Hat Corporation of America: *See*—
Cavanagh, John, Ltd.

Haydon Products Corporation, Brooklyn, N. Y. Insulating jackets for boiler. 564,400, Sept. 23; Serial No. 612,690, published June 24, 1952. Class 12.

Hego Fabrics, Inc., New York, N. Y. Textile fabrics. 564,490, Sept. 23; Serial No. 625,351, published July 1, 1952. Class 42.

Hercules Powder Company, Wilmington, Del. Detergent compound. 295,403, June 28, 1932. Republished Sept. 23. Class 52.

Hercules Powder Company, Wilmington, Del. Synthetic resin to be used in protective coatings and in molded products. 296,562, Aug. 9, 1932. Republished Sept. 23. Classes 6 and 16.

Hercules Powder Company, Wilmington, Del. Ester of rosin. 297,813–14, renewed Oct. 4, 1952. O. G. Sept. 23. Class 6.

Hercules Powder Company, Wilmington, Del. Finely ground, heavy metal salt-casein composition. 564,429, Sept. 23; Serial No. 616,291, published June 24, 1952. Class 6.

Herts Pharmaceuticals Limited, Welwyn Garden City, Hertfordshire, England. Pharmaceutical preparation. 564,306, Sept. 23; Serial No. 589,446, published May 27, 1952. Class 18.

Hertz, Henry, doing business under the name and style of Hertz Hosiery Company, Los Angeles, Calif. Women's nylon hosiery. 564,521, Sept. 23; Serial No. 610,443. Class 39.

Hertz Hosiery Company: *See*—
Hertz, Henry.

Hi-Flier Manufacturing Company, The, Decatur, Ill. Kites. 564,515, Sept. 23; Serial No. 603,011. Class 22.

Hilgers, John, Binghamton, N. Y. Reagent used in detecting urine sugar. 550,175, Oct. 30, 1951. Canceled July 29, 1952. O. G. Sept. 23. Class 6.

Hilstomed, Incorporated, Paterson, N. J. Porous and absorbent material for collecting and processing tissue elements for sponge biopsy. 564,270, Sept. 23; Serial No. 573,323, published July 8, 1952. Class 44.

Hoffman Specialty Company, assignor to Hoffman Specialty Mfg. Corp., Indianapolis, Ind. Floor, roof, deck, shower, areaway, and ice-box drains and strainers therefor, swimming-pool fittings, etc. 564,313, Sept. 23; Serial No. 593,120, published July 8, 1952. Class 13.

Hoffman Specialty Mfg. Corp., assignee: *See*—
Hoffman Specialty Company.

Hoffmann-La Roche Inc., Nutley, N. J. Antituberculosis compound. 564,486, Sept. 23; Serial No. 624,743, published May 27, 1952. Class 18.

House of Swansdown, Inc., The: *See*—
Haft, Morris W., & Brothers, Inc.

Howe Scale Company, The, Rutland, Vt. Scales. 87,997, re-renewed Aug. 20, 1952. O. G. Sept. 23. Class 26.

Hudnut, Richard, New York, N. Y. Hair dye. 564,329, Sept. 23; Serial No. 600,487, published May 27, 1952. Class 51.

Hudson, J., & Co. (Whistles) Limited: *See*—
Hudson, Joseph.

Hudson, Joseph, to J. Hudson & Co. (Whistles) Limited, Birmingham, England. Whistle-calls. 88,184, re-renewed Sept. 3, 1952. O. G. Sept. 23. Class 22.

Huffman Manufacturing Company, The, Dayton, Ohio. Combination children's bicycle. 564,284, Sept. 23; Serial No. 580,842, published July 8, 1952. Class 22.

Hygrade Food Products Corporation, Detroit, Mich. Pasteurized process cheese food. 564,536, Sept. 23; Serial No. 623,889. Class 46.

Hyster Company, Portland, Oreg. Toy models. 564,296, Sept. 23; Serial No. 586,166, published May 13, 1952. Class 22.

Industrial Rayon Corporation, Cleveland, Ohio. Rayon tire cord fabric. 564,308, Sept. 23; Serial No. 590,084, published Jan. 29, 1952. Class 42.

Industrial Sheet Metal Works: *See*—
Goldhammer, Charles W.

International Bedding Company, The, Baltimore, Md. Cotton mattresses, cotton felt mattresses, hair mattresses, etc. 564,402, Sept. 23; Serial No. 612,864, published July 8, 1952. Class 32.

International Paper Co., to International Paper Company, New York, N. Y. Concentrated waste lyes. 87,768, re-renewed Aug. 6, 1952. O. G. Sept. 23. Class 5.

International Paper Company: *See*—
International Paper Co.

International Silver Company, to The International Silver Company, Meriden, Conn. Silver-plated flat-ware and hollow-ware. 297,733, renewed Sept. 27, 1952. O. G. Sept. 23. Class 28.

International Silver Company, The; *See*—
International Silver Company.

Jackson, Eleanor M., doing business as R. & J. Chemical Co., Wilmette, by Phenex Laboratories, Inc., Chicago, Ill. Antiseptic germicide. 392,411, Dec. 23, 1941. Republished Sept. 23, 1952. Class 18.

Jefferson Union Company, Inc., Lexington, Mass. Pipe joints or couplings. 564,482, Sept. 23; Serial No. 623,767, published July 8, 1952. Class 13.

Jennings, Chester A., doing business as HCO Laboratories, Hillsville, Va. Preparation for external use in relief of muscular aches and pains. 564,340, Sept. 23; Serial No. 603,195, published May 27, 1952. Class 18.

Kalamazoo Limited, Northfield, Birmingham, England. Loose-leaf books and binders, accounting record, and ledger sheets, etc. 564,330. Sept. 23; Serial No. 601,150, published June 10, 1952. Class 37.

Kaye and Mac Donald, Inc.: *See*—
D'Este, Julian, Company.

Kayser, Julius, & Co., New York, N. Y. Fabric gloves. 564,519, Sept. 23; Serial No. 609,929. Class 39.

Keith-Victor Pharmacal Co., St. Louis, Mo. Chlorophyllins sorbalate. 564,357, Sept. 23; Serial No. 607,334, published May 27, 1952. Class 18.

Kendall Company, The, Boston, Mass., and Chicago, Ill., to The Kendall Company, Boston, Mass. Ointment. 298,218, renewed Oct. 18, 1952. O. G. Sept. 23. Class 18.

Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. 564,403–4, Sept 23; Serial Nos. 612,918–19, published July 8, 1952. Class 32.

Killgore, Charles, Company, Inc., Yonkers, N. Y. Candy substitutes. 564,447 Sept. 23; Serial No. 619,391, published June 17, 1952. Class 46.

Knotty Pine Food Products, Centerville, Iowa. Condensed burnt sugar syrup. 564,477, Sept. 23; Serial No. 623,310, published June 24, 1952. Class 46.

Koh-I-Noor, Pencil Factory L. & C. Hardtmuth, National Corporation, Ceske Budejovice, Czechoslovakia. Office supplies. 548,283, Sept. 18, 1951. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 37.

Kress, S. H., and Company, New York, N. Y. Fountain syringes, surgical nozzles and tubing for syringes, etc. 564,278, Sept. 23; Serial No. 578,857, published July 8, 1952. Class 44.

Lambert Marketing Co., Sacramento, Calif. Fresh grapes, fresh deciduous fruits, fresh vegetables. 298,341, renewed Oct. 25, 1952. O. G. Sept. 23. Class 46.

Lamphier, Edwin P., Hartford, Conn. Metal strips coated or surfaced with reflective material which are affixed to bicycle pedals. 564,532, Sept. 23; Serial No. 617,151. Class 19.

Lancaster Chemical Corporation: *See*—
Lancaster Processes, Inc.

Lancaster Processes, Inc., New York, N. Y., now by change Lancaster Chemical Corporation. Asphalt additives. 564,299, Sept. 23; Serial No. 586,921, published June 24, 1952. Class 12.

Leaf Brands, Inc., doing business under the name and style of Overland Candy Co., a division of Leaf Brands, Inc., Chicago, Ill. Candy. 564,533, Sept. 23; Serial No. 621,472. Class 46.

Lee Rubber & Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio. Gasoline hose, distillate hose, tank wagon hose, etc. 564,314, Sept. 23; Serial No. 593,129, published June 24, 1952. Class 35.

Leggett, Frank S., Albany, Ga. Table sauce. 294,091, May 17, 1932. Canceled July 29, 1952. O. G. Sept. 23. Class 46.

Lehman Bros. Corp.: *See*—
Lehman Bros., Incorporated.

Lehman Bros., Incorporated, to Lehman Bros. Corp., Jersey City, N. J. Ready-mixed paints, paint enamels, varnishes, etc. 293,934, renewed May 10, 1952. O. G. Sept. 23, 1952. Class 16.

Lehman, Louis H., doing business as Lehman Sprayshield Company, to Lehman Sprayshield Company, Philadelphia, Pa. Glass shower stall doors, shower bath shields and bath enclosures. 296,950, renewed Aug. 30, 1952. O. G. Sept. 23. Class 13.

Lehman, Louis H., doing business as Lehman Sprayshield Company, to Lehman Sprayshield Company, Philadelphia, Pa. Glass shower stall doors, glass shower bath shields and glass bath enclosures. 297,139, renewed Sept. 6, 1952. O. G. Sept. 23. Class 13.

Lehman Sprayshield Company: *See*—
Lehman, Louis H.

Leiby, Dayton O., doing business as Tate-O-Nut Donut Shop, Alhambra, Calif. Ground meat sandwiches. 564,392, Sept. 23; Serial No. 611,793, published June 10, 1952. Class 46.

Lekas & Drivas: *See*—
Lekas & Drivas, Inc.

Lekas & Drivas, Inc., doing business under the name of Lekas & Drivas, New York, N. Y. Olive oil. 564,353, Sept. 23; Serial No. 606,713, published July 1, 1952. Class 46.

Lerner Blouse Co., Philadelphia, Pa. Ladies' blouses, ladies' shirtwaists, and ladies' waists. 354,455, Feb. 15, 1938. Republished Sept. 23. Class 39.

Le Tourneau, R. G., Inc., Peoria, Ill. Unitary self-propelled implement. 441,217, Nov. 2, 1948. Republished Sept. 23. Class 23.

Long, Wm., Cornices & Bedheads, Los Angeles, Calif. Beds and mattresses. 564,260, Sept. 23; Serial No. 562,074, published July 1, 1952. Class 32.

Loxit Systems, Inc., Chicago, Ill. Metal chalk troughs, head and mullion trim channels, and metal end stops. 564,295, Sept. 23; Serial No. 585,853, published June 17, 1952. Class 12.

Lox-On, Inc., New York, N. Y. Non-refillable and tamper-proof closures for containers. 564,516, Sept. 23; Serial No. 605,165. Class 50.

Lund, Arnold L., doing business as Dust Filter Company, Chicago, Ill. Dust collectors of the filter type. 564,319, Sept. 23; Serial No. 595,218, published June 3, 1952. Class 31.

Lurgan Weaving Company, Limited, The, Lurgan, Northern Ireland. Bedspreads, sheets, pillow cases, etc. 296,063, renewed July 19, 1952. O. G. Sept. 23. Class 42.

Mabor Limited: *See*—
Magnesia Syndicate, Ltd., The.

Macmillan Petroleum Corporation, Los Angeles, Calif. Petroleum products. 315,325, July 24, 1934. Corrected. O. G. Sept. 23. Class 15.

Magnesia Syndicate, Ltd., The, Westminster, to Mabor Limited, London, England. Cements, bricks, crucibles, etc. 38,441, re-renewed June 10, 1952. O. G. Sept. 23. Class 12.

Makers of Kal, Inc., Los Angeles, Calif. Natural iodine. 564,413, Sept. 23; Serial No. 613,935, published May 27, 1952. Class 18.

Maltbie Laboratories, Inc., Newark, N. J. Antibiotic-anesthetic lozenge. 564,333, Sept. 23; Serial No. 601,991, published May 27, 1952. Class 18.

Mandel Brothers, Inc., Chicago, Ill. Automatic electric washing machines. 564,534, Sept. 23; Serial No. 622,751. Class 24.

Manning, Maxwell & Moore, Incorporated: *See*—
United Injector Company, The.

Marine Development Corporation, Washington, D. C., assignor to Crossfield Products Corporation, Los Angeles, Calif. Thick tacky paste composed of latex and hydraulic cements. 564,412, Sept. 23; Serial No. 613,880, published Jan. 1, 1952. Class 6.

Maritime Milling Co., Inc., Buffalo, N. Y. Poultry feeds. 297,592, renewed Sept. 20, 1952. O. G. Sept. 23. Class 46.

Marriott, Roy G., doing business under the trade name Graded Egg Co., Perry, Okla. Fresh eggs. 564,459, Sept. 23; Serial No. 620,517, published June 17, 1952. Class 46.

Mary Sue Sales Co., Baltimore, Md. Candy and salted nuts. 564,471, Sept. 23; Serial No. 622,345, published June 17, 1952. Class 46.

Maryland Lime & Fertilizer Corp., Hagerstown, Md. Fertilizer. 443,103, July 19, 1949. Canceled July 29, 1952. O. G. Sept. 23. Class 10.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. 564,322, Sept. 23; Serial No. 596,597, published May 20, 1952. Class 18.

Masson Seeley and Company Limited, London, England. Transfer papers. 564,474, Sept. 23; Serial No. 622,608, published June 17, 1952. Class 37.

Mastic Tile Corporation, Newburgh, N. Y. Vinyl plastic asphalt floor tiles. 564,433, Sept. 23; Serial No. 617,543, published July 1, 1952. Class 12.

Mastic Tile Corporation, Newburgh, N. Y. Asphalt floor tiles. 564,434 Sept. 23; Serial No. 617,544, published July 1, 1952. Class 12.

Mathews, A. H., & Company, Newark, N. J. Reducing aid. 564,442, Sept. 23; Serial No. 619,094, published May 20, 1952. Class 18.

Maurer, John C., San Jose, Calif. Sodium hypochlorite concentrates. 564,331, Sept. 23; Serial No. 601,225, published June 24, 1952. Class 6.

Mayer, Marie: *See*—
Di-Fram-Ette, Inc.

McCammant, Albert, Nellisville, Wis. Lumpjaw medicine. 564,525, Sept. 23; Serial No. 615,075. Class 18.

McNeill and McNeill, Los Angeles, Calif. Tablecloths, textile tea sets, window curtains, etc. 564,499, Sept. 23; Serial No. 510,100. Class 42.

McNeil Laboratories, Incorporated: *See*—
McNeil, Robert.

McNeil, Robert, to McNeil Laboratories, Incorporated, Philadelphia, Pa. Preparation for promoting the granulation and healing of wounds. 297,810, renewed Oct. 4, 1952. O. G. Sept. 23. Class 18.

Mead Johnson & Company, Evansville, Ind. Cod liver oil and viosterol. 297,187, renewed Sept. 6, 1952. O. G. Sept. 23. Class 18.

Meier, Joshua, Company, Inc., New York, N. Y. Display albums and loose leaf binders. 564,335, Sept. 23; Serial No. 602,271, published June 3, 1952. Class 37.

Mennel Milling Company, The: *See*—
Harter Milling Co., The.

Merit Clothing Company, Inc., Mayfield, Ky. Men's, young men's youths', and boys' coats, vests, pants, etc. 297,234, Sept. 6, 1932. Corrected. O. G. Sept. 23. Class 39.

Metalcraft, Inc., Mason City, Iowa. Adhesive-backed marking plates. 564,384, Sept. 23; Serial No. 610,753, published June 24, 1952. Class 50.

Metlox Manufacturing Co., Manhattan Beach, Calif. Pottery, dinnerware, and analogous glazed earthenware. 564,503, Sept. 23; Serial No. 578,511. Class 30.

Mid-West Mills: *See*—
Security Milling Co., Inc., The.

Miller, E. S., Laboratories, Inc., Los Angeles, Calif. Pregnenolone. 564,317, Sept. 23; Serial No. 594,275, published May 27, 1952. Class 18.

Minervini, John: *See*—
Minervini, John, Inc.

Minervini, John, Inc., to J. Minervini, Hoboken, N. J. Canned tomatoes. 292,273, renewed Mar. 8, 1952. O. G. Sept. 23. Class 46.

Minervini, John, Inc., to J. Minervini, Hoboken, N. J. Alimentary paste products. 295,080, renewed June 14, 1952. O. G. Sept. 23. Class 46.

Matteson, Miss, Doll Co, Not Inc., Matteson, Ill. Dolls. 564,337, Sept. 23; Serial No. 602,703, published July 8, 1952. Class 22.

Mitchell Manufacturing Company, Chicago, Ill. Refrigerating units. 564,321, Sept. 23; Serial No. 596,175, published June 10, 1952. Class 31.

Mono Service Co., Newark, N. J., to Continental Can Company, Inc., New York, N. Y. Cartons. 298,749, renewed Nov. 1, 1952. O. G. Sept. 23. Class 2.

Monterey Canning Co., Monterey, Calif. Canned sardines. 564,346, Sept. 23; Serial No. 604,920, published July 1, 1952. Class 46.

Moore, Benjamin, & Co., New York, N. Y. Dry powder for non-washable wall finish. 69,301, June 2, 1908. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Mixed paints, stains, paint enamels, etc. 159,041, Sept. 19, 1922. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Varnish stain. 159,444, Sept. 26, 1922. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Varnish. 174,227, Oct. 9, 1923. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Ready-mixed paints. 176,047, Nov. 13, 1923. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Liquid paints and paint enamels. 212,503, May 4, 1926. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Flat oil paints. 223,660, Feb. 8, 1927. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Lacquers, paint enamels, and varnish enamels. 223,984, Feb. 15, 1927. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Ready-mixed paints. 282,686, Apr. 28, 1931. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Ready mixed paints and paint enamels. 351,864, Nov. 9, 1937. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Flat paint. 399,098, Dec. 15, 1942. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Ready mixed paints. 422,346, July 16, 1946. Republished Sept. 23. Class 16.

Moore, Benjamin, & Co., New York, N. Y. Mixed paints. 435,887, Jan. 13, 1948. Republished Sept. 23. Class 16.

Morrison, John, Franconia, N. H. Hammer toy. 564,351, Sept. 23; Serial No. 606,388, published July 8, 1952. Class 22.

Mosaic Tile Company, The, Zanesville, Ohio. Floor, wall, and ceiling tiles. 564,454, Sept. 23; Serial No. 619,892, published May 27, 1952. Class 12.

Muller Machinery Co., Inc., Metuchen, N. J. Concrete mixers. 564,254, Sept. 23; Serial No. 515,192, published Dec. 18, 1951. Class 23.

Murray Company of Texas, Inc., The: *See*—
Boston Gear Works, Inc.

Nagle Pumps, Inc., Chicago Heights, Ill. Industrial pumps. 564,467, Sept. 23; Serial No. 621,605, published June 3, 1952. Class 23.

Nansue Hosiery Co., Queens Village, N. Y. Women's nylon hosiery. 564,466, Sept. 23; Serial No. 621,161, published July 1, 1952. Class 39.

National Cranberry Association, Hanson, Mass. Fresh cranberries. 564,358, Sept. 23; Serial No. 607,369, published July 1, 1952. Class 46.

National Credit Card, Inc., Portland, Oreg. Arranging for extension of credit to the customers of subscribing hotels and restaurants, etc. 564,495–6, Sept. 23; Serial Nos. 618,937–8, published July 1, 1952. Class 102.

National Ideal Company, The, Toledo, Ohio. Hand and power lawn mowers, grass catchers, grass and hedge shears, etc. 564,269, Sept. 23; Serial No. 572,511, published July 1, 1952. Class 23.

National Potteries, Cleveland, Ohio. Plastic household decorative boxes. 564,343, Sept. 23; Serial No. 604,590, published July 1, 1952. Class 2.

National Research Corporation, Cambridge, Mass. Vacuum diffusion pump fluids. 564,394, Sept. 23; Serial No. 612,028, published June 24, 1952. Class 6.

National Ribbon Corp., Long Island City, N. Y. Woven edge textile ribbons. 564,538, Sept. 23; Serial No. 624,561. Class 42.

Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow-cases. 89,052, re-renewed Nov. 5, 1952. O. G. Sept. 23. Class 42.

Nehi Corporation: *See*—
Nehi, Inc.

Nehi, Inc., by Nehi Corporation, Columbus, Ga. Non-alcoholic, noncereal, maltless beverages and concentrates. 294,961–2, June 14, 1932. Republished Sept. 23. Class 45.

Neo-Craft Manufacturing Co.: *See*—
Core, James A.

Newayge Engineering Company, Newayge, Mich. Dual axle spring assemblies and foundry equipment. 547,425, Sept. 4, 1951. Amended. O. G. Sept. 23. Class 23.

New England Coating Works, Inc., Stamford, Conn. Putty. 564,432, Sept. 23; Serial No. 617,205, published June 3, 1952. Class 12.

New York Air Brake Company, The, Watertown and New York, N. Y. Air filters and parts thereof. 564,422, Sept. 23; Serial No. 615,400, published June 3, 1952. Class 31.

New-York Hamburger Gummi-Waaren Compagnie, Hamburg, Germany, to S & G Rubber Co., Inc., Mendham, N. J. Combs. 291,836, renewed Feb. 23, 1952. O. G. Sept. 23. Class 40.

Nicro Steel Products Co. Division of Cory Corporation: *See*—
Cory Corporation.

Nordac Limited, Uxbridge, England. Power driven pumps. 564,375, Sept. 23; Serial No. 609,982, published June 24, 1952. Class 23.

Nordberg Manufacturing Company, Milwaukee Wis. Crushing machinery. 564,264, Sept. 23; Serial No. 566,095, published Dec. 13, 1949. Class 23.

O'Connell Brothers, Inc., Overland and St. Louis, Mo. Sodium pentobarbital. 564,360, Sept. 23; Serial No. 607,511, published June 24, 1952. Class 18.

Ohlandt, D. W., & Sons, to F. W. Ohlandt, doing business as D. W. Ohlandt & Sons, Charleston, S. C. Coffee. 294,084, renewed May 17, 1952. O. G. Sept. 23. Class 46.

Ohlandt, F. W.: *See*—
Ohlandt, D. W., & Sons.

Oneida Ltd., Oneida and Sherrill, N. Y. Silverware or tableware storage chests. 564,282, Sept. 23; Serial No. 579,552, published July 1, 1952. Class 2.

Orchard Brothers Incorporated, Rutherford, N. J. Awnings, canopies, shades, etc. 564,268, Sept. 23; Serial No. 572,116, published Oct. 17, 1950. Class 12.

Ostrucon Distilled Products Co., Inc., New York, N. Y., by Ron Zorro Distillers, St. Thomas, Virgin Islands. Rum. 334,166, Apr. 21, 1936. Republished Sept. 23. Class 49.

Outboard, Marine & Manufacturing Company: *See*—
Outboard Motors Corporation.

Outboard Motors Corporation, Milwaukee, Wis., to Outboard, Marine & Manufacturing Company, Waukegan, Ill. Lawn mowers. 297,362, renewed Sept. 13, 1952. O. G. Sept. 23. Class 23.

Overland Candy Co., a division of Leaf Brands, Inc.: *See*—
Leaf Brands, Inc.

Ozark-Mahoning Company, Tulsa, Okla. Expanded perlite. 564,380, Sept. 23; Serial No. 610,333, published May 27, 1952. Class 12.

Palermo Importing Co.: *See*—
Palermo, Samuel J.

Palermo, Samuel J., doing business as Palermo Importing Co., Rochester, N. Y. Vegetable oil. 564,504, Sept. 23; Serial No. 579,997. Class 46.

Parfums Charbert Inc., New York, N. Y. Perfumes, cologne, lotion, etc. 564,385, Sept. 23; Serial No. 610,797, published May 27, 1952. Class 51.

Peacock, R. J., Canning Co.: *See*—
Seacoast Canning Co.

Pepper, Jas. E., & Company, Lexington, Ky., by Schenley Industries, Inc., New York, N. Y. Whiskey. 310,909, Mar. 13, 1934. Republished Sept. 23. Class 49.

Pesquera Iquique S. A., Iquique, Chile. Canned salt water fish. 564,291, Sept. 23; Serial No. 582,855, published July 1, 1952. Class 46.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc. Antibiotic preparation. 564,405, Sept. 23; Serial No. 612,932, published May 27, 1952. Class 18.

Pfizer, Chas., and Co., Inc., Brooklyn, N. Y. Antibiotic preparation. 564,453, Sept. 23; Serial No. 619,768, published May 27, 1952. Class 18.

Phenex Laboratories, Inc.: *See*—
Jackson, Eleanor M.

Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. 564,492, Sept. 23; Serial No. 626,408, published July 8, 1952. Class 6.

Phoenix Products Company, Milwaukee, Wis. 564,267, Sept. 23. Paper envelopes and bags, Serial No. 578,409, published Jan. 16, 1951, Class 2; articles made of paper or paper board, Serial No. 586,187, published Mar. 18, 1952, Class 37; articles for protecting and holding clothing, Serial No. 571,831, published Apr. 18, 1950, Class 50. (Consolidated certificate, Classes 2, 37, and 50.)

Pillsbury Mills, Inc., Minneapolis, Minn. Poultry feed. 564,509, Sept. 23; Serial No. 595,151. Class 46.

Pioneer Hi-Bred Corn Company, Des Moines, Iowa. Frozen eggs and dried eggs. 564,304, Sept. 23; Serial No. 587,910, published June 17, 1952. Class 46.

Pipe Line Development Company: *See*—
Smith, Joseph B.

Plantabbs Corporation, Baltimore, Md. Insecticides. 294,221, May 24, 1932. Republished Sept. 23. Class 6.

Polinel Company: *See*—
Potasch, Lionel N.

Pope Machinery Corporation, Haverhill, Mass. Shoe machinery. 295,432, renewed June 28, 1952. O. G. Sept. 23. Class 23.

Potasch, Lionel N., doing business under the style and name of Polinel Company, Milwaukee, Wis. Medicinal ointment. 564,378, Sept. 23; Serial No. 610,185, published May 27, 1952. Class 18.

Powers Regulator Company, The, Chicago, Ill. Static pressure or vacuum regulators; diaphragm valves; etc. 564,349, Sept. 23; Serial No. 606,084, published July 1, 1952. Class 23.

Pries, Leland H., Forest Hills, N. Y. Holders in the nature of a carrying case or luggage item. 564,256, Sept. 23; Serial No. 539,557, published July 1, 1952. Class 3.

Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 564,311, Sept. 23; Serial No. 591,654, published June 24, 1952. Class 52.

Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser and detergent. 564,416, Sept. 23; Serial No. 614,513, published July 8, 1952. Class 52.

Pyrok Limited, London, England. Vermiculite aggregate. 564,426, Sept. 23; Serial No. 615,793, published July 1, 1952. Class 12.

R. & J. Chemical Co.: *See*—
Jackson, Eleanor M.

Radiator Specialty Company, Charlotte, N. C. Closet bowl setting seal rings. 564,393, Sept. 23; Serial No. 611,976, published June 24, 1952. Class 35.

Rayco Mfg. Co., Paterson, N. J. Automobile seat covers. 564,513, Sept. 23; Serial No. 600,973. Class 19.

Redman, Frank R., Yardley, Pa. Cotton textile fabric. 564,475, Sept. 23; Serial No. 622,954, published July 1, 1952. Class 42.

Reese, Harry E., assignor to Stratoflex, Inc., Fort Worth, Tex. Metallic fittings and couplings. 564,480, Sept. 23; Serial No. 623,679, published July 8, 1952. Class 13.

Reineke, Charles A., Jr., St. Louis, Mo. Edible cones and cups for ice cream. 564,366, Sept. 23; Serial No. 608,177, published July 1, 1952. Class 46.

Republic Rubber Division: *See*—
Lee Rubber & Tire Corporation.

Rich. Klinger Aktiengesellschaft: *See*—
Rich. Klinker Gesellschaft mit beschrankter Haftung.

Rich. Klinger Gesellschaft mit beschrankter Haftung, to Rich. Klinger Aktiengesellschaft, Gumpoldskirchen, Austria. Brake linings and clutch linings. 288,705, renewed Nov. 3, 1951. O. G. Sept. 23. Class 35.

Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga., to Richmond Hosiery Mills, Rossville, Ga. Hosiery. 85,617, re-renewed Feb. 27, 1952. O. G. Sept. 23. Class 39.

Robbins & Myers, Inc., Springfield, Ohio. Power operated shallow-well pumps and power operated utility or general purpose pumps. 564,456, Sept. 23; Serial No. 620,110, published July 8, 1952. Class 23.

Robinson Industries, Coleman, Mich. Thermoplastic materials. 564,325, Sept. 23; Serial No. 599,262, published June 17, 1952. Class 12.

Rockwell Leather & Packing Co., Inc., Los Angeles, Calif. Machinery packings. 564,423, Sept. 23; Serial No. 615,414, published July 8, 1952. Class 35.

Rogers Candy Company, Seattle, Wash. Candy. 564,273, Sept. 23; Serial No. 576,658, published June 17, 1952. Class 46.

Ron Zorro Distillers: *See*—
Ostrucon Distilled Products Co., Inc.

Royal Robes Inc., New York, N. Y. Empty beach bags and general utility handled sack. 564,320, Sept. 23; Serial No. 595,417, published July 1, 1952. Class 3.

Rudy-Patrick Seed Company, Kansas City, Mo. Clover seed. 564,526, Sept. 23; Serial No. 615,415. Class 1.

Rusden, Charles J., doing business as Feltrok Insulation Manufacturing Company, Tacoma, Wash. Rock wool insulation. 564,312, Sept. 23; Serial No. 592,224, published May 27, 1952. Class 12.

Russell Supply Company, Bridgeville, Pa. Synthetic detergent. 564,457, Sept. 23; Serial No. 620,364, published June 17, 1952. Class 52.

Ryff & Co. Ltd., Bern, Switzerland. Knitted underwear. 293,531, renewed Apr. 26, 1952. O. G. Sept. 23. Class 39.

S & G Rubber Co., Inc.: *See*—
New-York Hamburger Gummi-Waaren Compagnie.

Safetee Glass Company, Philadelphia, Pa. Multiple glass sheet glazing units for insulating purposes. 564,344, Sept. 23; Serial No. 604,663, published July 1, 1952. Class 12.

St. Thomas Inc., Gloversville, N. Y. Purses. 564,487, Sept. 23; Serial No. 624,900, published July 1, 1952. Class 3.

Sanitron, Inc., Long Island City, N. Y. Electrically operated ozone-producing devices of the type employing ultra-violet ray lamps. 564,523, Sept. 23; Serial No. 612,475. Class 21.

Sanson Hosiery Mills, Inc.: *See*—
Artcraft Silk Hosiery Mills, Inc.

Schenley Distillers, Inc.: *See*—
Bernheim Distilling Company.
Pepper, Jas. E., & Company.
Schenley Products Company.

Schenley Products Company, by Schenley Industries, Inc., New York, N. Y. Whiskey. 320,176, Dec. 18, 1934. Republished Sept. 23. Class 49.

Schering Corporation, Bloomfield, N. J. Product for the treatment of vascular conditions. 564,443, Sept. 23; Serial No. 619,108, published May 27, 1952. Class 18.

Schering Corporation, Bloomfield, N. J. Hypnotic. 564,450, Sept. 23; Serial No. 619,652, published May 27, 1952. Class 18.

Schneible, Claude B., Company, Detroit, Mich. Dewatering tanks. 564,258, Sept. 23; Serial No. 548,535, published June 24, 1952. Class 2.

Schwarzenbach-Huber Company, The, New York, N. Y. Fabrics. 564,527, Sept. 23; Serial No. 617,128. Class 42.

Scoville Manufacturing Company, Waterbury, Conn. Lamp-burners. 88,121, re-renewed Aug. 27, 1952. O. G. Sept. 23. Class 34.

Seacoast Canning Co., Eastport, to R. J. Peacock Canning Co., Lubec, Maine. Sardines. 88,122, re-renewed Aug. 27, 1952. O. G. Sept. 23. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Portable bath shower and sprayer. 564,298, Sept. 23; Serial No. 586,883, published July 8, 1952. Class 13.

Security Milling Co., Inc., The, trading as Mid-West Mills, Abilene, Kans. Wheat flour. 564,508, Sept. 23; Serial No. 591,804. Class 46.

Seelman, George, & Sons Co., Milwaukee, Wis. Receipt cases, pocketbooks, portfolios, etc. 564,462, Sept. 23; Serial No. 620,861, published July 8, 1952. Class 3.

Sertoma International, Kansas City, Mo. Stimulating and maintaining interest in public affairs, etc. 564,498, Sept. 23; Serial No. 603,701, published July 1, 1952. Class 100.

Shell Chemical Corporation, New York, N. Y. Anhydrous ammonia. 564,478, Sept. 23; Serial No. 623,479, published June 24, 1952. Class 6.

Shellmar Products Corporation, Chicago, Ill. Wrapping material. 564,274, Sept. 23; Serial No. 577,148, published June 24, 1952. Class 37.

Shellmar Products Corporation, Chicago, Ill. Merchandise envelopes, bags, and pouches. 564,379, Sept. 23; Serial No. 610,191, published July 1, 1952. Class 2.

Shirley Fabrics Corp., New York, N. Y. Textile fabrics. 564,539, Sept. 23; Serial No. 626,347. Class 42.

Sigma Chemical Co., St. Louis, Mo. Pharmaceutical preparation. 564,364, Sept. 23; Serial No. 608,047, published June 3, 1952. Class 18.

Sigma Phi Epsilon Fraternity, Richmond, Va. Organizing of chapters and regional groups. 564,497, Sept. 23; Serial No. 598,046, published July 1, 1952. Class 100.

Smith, Joseph B., doing business as Pipe Line Development Company, Cleveland, Ohio. Couplings. 564,529, Sept. 23; Serial No. 617,846. Class 13.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medicine for stimulation of the central nervous system, etc. 564,293, Sept. 23; Serial No. 584,159, published May 20, 1952. Class 18.

Smith, Kline & French Laboratories, Philadelphia, Pa. Unit of medication. 564,356, Sept. 23; Serial No. 607,207, published May 27, 1952. Class 18.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal agent. 564,452, Sept. 23; Serial No. 619,716, published May 27, 1952. Class 18.

Smith, L. C, & Corona Typewriters Inc., New York, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Carbon paper and typewriter ribbons. 294,139, renewed May 17, 1952. O. G. Sept. 23. Class 11.

Smith, L. C, & Corona Typewriters Inc., New York, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Carbon paper and typewriter ribbons. 294,529. Renewed May 31, 1952. O. G. Sept. 23. Class 11.

Smith, L. C., & Corona Typewriters, Inc.: *See*—
Smith, L C, & Corona Typewriters Inc.

Smith, William P. C., doing business as Blacksmith Shop, Rockport, Mass. Bread. 564,430, Sept. 23; Serial No. 616,648, published July 1, 1952. Class 46.

Society for the Advancement of Management, Inc., The, New York, N. Y. Collecting through research, study, investigation, etc., information in the field of scientific management, etc. 564,494, Sept. 23; Serial No. 597,846, published July 1, 1952. Class 100.

Somnyl Pharmacal Corporation of America, New York, N. Y. Mild sedative. 564,407, Sept. 23; Serial No. 613,197, published May 27, 1952. Class 18.

Sonic Industries, Inc., New York, N. Y. Television amplifiers. 564,514, Sept. 23; Serial No. 602,861. Class 21.

Sonotone Corporation, Elmsford, N. Y. Hearing-aids and acoustic elements and accessories thereof. 564,283, Sept. 23; Serial No. 580,523, published July 8, 1952. Class 44.

Spalding, A. G., & Bros. Inc., Chicopee, Mass. Skis and ski poles. 550,979, Nov. 20, 1951. Corrected. O. G. Sept. 23. Class 22.

Sponge Rubber Products Company, The, Shelton, Conn. Empty portable buckets. 564,307, Sept. 23; Serial No. 589,812, published June 24, 1952. Class 2.

Springfield Flour Mills, The: *See*—
Colorado Milling & Elevator Co., The.

Squibb, E. R., & Sons, New York, N. Y. Antihypertensive agent. 564,341, Sept. 23; Serial No. 603,554, published June 3, 1952. Class 18.

Standard Brands Incorporated, New York, N. Y. Mixture of egg material and other substances. 299,001–2, renewed Nov. 15, 1952. O. G. Sept. 23. Class 46.

Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Cotton thread. 298,626–7, renewed Nov. 1, 1952. O. G. Sept. 23. Class 43.
Standard Steel Works, North Kansas City, Mo. Portable metal racks for shelving. 564,522, Sept. 23; Serial No. 612,040. Class 13.
Stefco Manufacturing Company, Rossmoyne, Ohio. Prefabricated steel buildings. 564,421, Sept. 23; Serial No. 614,909, published May 27, 1952. Class 12.
Steiner Sales Company Division of American Linen Supply Co.: *See*—
American Linen Supply Co.
Stocker Manufacturing Company, Netcong, N. J. Paper bags. 564,409, Sept. 23; Serial No. 613,535, published July 1, 1952. Class 2.
Stockton, Eugene M., Chicago, Ill. Liquid food flavoring preparation. 564,535, Sept. 23; Serial No. 623,088, Class 46.
Stokes, Jos., Rubber Co., to Stokes Molded Products, Inc., Trenton, N. J. Electrical hard rubber products. 293,884, renewed May 10, 1952. O. G. Sept. 23. Class 21.
Stokes Molded Products, Inc.: *See*—
Stokes, Jos., Rubber Co.
Stratoflex, Inc., assignee: *See*—
Reese, Harry E.
Suchar Engineering & Sales Company, New York, N. Y. Rotary-leaf pressure filters. 564,271, Sept. 23; Serial No. 573,601, published June 24, 1952. Class 31.
Swan Pencil Company, Inc., New York, N. Y. Pencils. 564,483, Sept. 23; Serial No. 624,110, published June 24, 1952. Class 37.
Sweet Fern Lotion Company: *See*—
Ellinger, O. Robert.
Tate-O-Nut Donut Shop: *See*—
Leiby, Dayton O.
Taylor, Lloyd G., Ellicott City, Md. Closed form in which units of fluid and bulk material are frozen. 564,324, Sept. 23; Serial No. 598,225, published June 17, 1952. Class 31.
Technical Glass Company, Inc., Los Angeles, Calif. Door locks and hardware therefor. 564,518, Sept. 23; Serial No. 608,519. Class 25.
Texize Chemicals Inc., Greenville, S. C. Starch and disinfectant preparation, warp sizing compound. 564,391, Sept. 23; Serial No. 611,729, published June 24, 1952. Class 6.
Topton Rug Manufacturing Co., Mertztown, Pa. Handloomed cotton rugs. 564,398, Sept. 23; Serial No. 612,284, published July 1, 1952. Class 42.
Townsend, Ralph M., Fairfax, Va. Fresh oranges, fresh orange juice, canned single strength orange juice, etc. 564,449, Sept. 23; Serial No. 620,631, published July 8, 1952. Class 46.
Truscon Laboratories, The, Detroit, Mich., to Devoe & Raynolds Company, Inc., New York, N. Y. Paint enamel. 293,093, renewed Apr. 12, 1952. O. G. Sept. 23. Class 16.
Union Bag and Paper Company, The, Jersey City, N. J., and New York, N. Y., to Union Bag & Paper Corporation, New York, N. Y. Paper bags. 86,965, re-renewed June 11, 1952. O. G. Sept. 23. Class 2.
Union Bag & Paper Corporation: *See*—
Union Bag and Paper Company, The.
Unistrut Corporation, Wayne, Mich. Shelf supporting brackets. 564,414, Sept. 23; Serial No. 614,021, published July 8, 1952. Class 13.
United Crayon Co. Inc., Brooklyn, N. Y. Sticks of crayon 564,255, Sept. 23; Serial No. 517,754, published July 8, 1952. Class 37.
United Furniture Stores, Chicago, Ill. Kitchen furniture. 369,403, July 25, 1939. Canceled Aug. 15, 1952. O. G Sept. 23. Class 32.
United Injector Company, The, to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Ejectors. 88,644, re-renewed Oct. 8, 1952. O. G. Sept. 23. Class 23.
United States Gypsum Company, Chicago, Ill. Lime for construction use. 564,262, Sept. 23; Serial No. 562,972, published May 27, 1952. Class 12.
U. S. Handbag Corporation, New York, N. Y. Ladies' handbags, wallets, travelling cases, etc. 564,417, Sept. 23; Serial No. 614,526, published July 1, 1952. Class 3.
U. S. Handbag Corporation, New York, N. Y. Ladies' handbags, wallets, and travelling cases. 564,441, Sept. 23; Serial No. 619,045, published July 1, 1952. Class 3.
U. S. Line Company: *See*—
United States Whip Company.
United States Plywood Corporation, New York, N. Y. Plywood adhesives. 564,420, Sept. 23; Serial No. 614,732, published July 8, 1952. Class 5.
United States Stove Company, South Pittsburg, Tenn. Gas-operated water heaters and gas-operated heating-stoves. 289,575, Aug. 12, 1941. Amended. O. G. Sept. 23, 1952. Class 34.
United States Whip Company, doing business under the name and style of U. S. Line Company, Westfield, Mass. Fishing lines. 564,505, Sept. 23; Serial No. 585,965. Class 22.
Upjohn Company, The, Kalamazoo, Mich. Washable base antibiotic ointment. 564,334, Sept. 23; Serial No. 602,007, published June 3, 1952. Class 18.
V S B Mfg. Co., Brooklyn, N. Y. Steel wool pads with soap incorporated therein. 564,377, Sept. 23; Serial No. 610,036, published June 24, 1952. Class 4.
Vanol Chemical Company, Ann Arbor, Mich. Nose drops, vaginal jelly, greaseless ointments and lotions, etc. 444,719, Sept. 23; Serial No. 524,029, published May 20, 1952. Class 51.
Vickers, Incorporated, Detroit, Mich. Hydraulic power transmission devices. 530,775, Sept. 19, 1950. Amended. O. G. Sept. 23. Class 23.
Vickers, Incorporated, Detroit, Mich. Pressure switches. 543,780, June 12, 1951. Amended. O. G. Sept. 23. Class 21.
Vickers, Incorporated, Detroit, Mich. Pressure control valves, volume control valves, etc. 551,076, Nov. 20, 1951. Amended. O. G. Sept. 23. Class 13.
Vico Products Company, Chicago, Ill. Yeast autolysate for flavoring. 564,479, Sept. 23; Serial No. 623,521, published July 1, 1952. Class 46.
Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J. Poultry biologics, medicines and pharmaceutical preparations. 564,352, Sept. 23; Serial No. 606,578, published July 8, 1952. Class 18.
Vulcan Metal Products Company, Birmingham, Ala. Metal screen doors and window screens, and metal storm sash. 564,288, Sept. 23; Serial No. 581,540, published June 3, 1952. Class 12.
W. B. Foundations, Incorporated, Newark, N. J. Corsettes. 564,530, Sept. 23; Serial No. 620,179. Class 39.
Wampole, Henry K., & Company, Incorporated, Philadelphia, Pa. Mineral dietary supplements. 564,444, Sept. 23; Serial No. 619,115, published May 20, 1952. Class 18.
Warner-Hudnut, Inc., New York, N. Y. Bulk laxative. 564,438, Sept. 23; Serial No. 618,996, published May 20, 1952. Class 18.
Warner-Hudnut, Inc., New York, N. Y. Multivitamin preparation. 564,439, Sept. 23; Serial No. 618,998, published May 20, 1952. Class 18.
Warren-Teed Products Company, The, Columbus, Ohio. Medical compound. 340,569, Nov. 17, 1936. Canceled Aug. 15, 1952. O. G. Sept. 23. Class 6.
Waterlox, Inc., Detroit, Mich., to The Empire Varnish Company, Cleveland, Ohio. Transparent liquid chemical waterproofing compound. 294,696, renewed June 7, 1952. O. G. Sept. 23. Class 16.
Waterlox, Inc., Detroit, Mich., to The Empire Varnish Company, Cleveland, Ohio. Transparent liquid chemical waterproofing compound. 296,982, renewed Aug. 30, 1952. O. G. Sept. 23. Class 16.
Wells Manufacturing Company, South Bend, Ind. Adhesive coated wood blocks. 564,411, Sept. 23; Serial No. 613,750, published July 1, 1952. Class 50.
West Disinfecting Company, Long Island City, N. Y. Toilet-bowl cleanser. 564,406, Sept. 23; Serial No. 613,034, published July 8, 1952. Class 52.
West Laboratories, Inc., Long Island City, N. Y. Antiseptic preparation. 564,410, Sept. 23; Serial No. 613,546, published June 24, 1952. Class 18.
Western Waxed Paper Company: *See*—
Crown Zellerbach Corporation.
Weston, Byron, Company, Dalton, Mass. Ledger and bond paper. 297,923, Oct. 4, 1932. Republished Sept. 23. Class 37.
Westville Oil and Manufacturing, Inc., Westville, Ind. Motor oil. 564,381, Sept. 23; Serial No. 610,394, published May 27, 1952. Class 15.
White Motor Company, The, Cleveland, Ohio. Internal combustion engines. 564,279, Sept. 23; Serial No. 579,244, published June 10, 1952. Class 23.
Whitney, F. A., Carriage Company, Leominster, Mass. Clothes hampers. 564,458, Sept. 23; Serial No. 620,449, published June 24, 1952. Class 2.
Wilbur-Ellis Company, San Francisco, Calif. Frozen fresh shrimp. 564,395, Sept. 23; Serial No. 612,048, published June 24, 1952. Class 46.
Wilkening Manufacturing Company, Philadelphia, Pa. Piston rings. 564,373, Sept. 23; Serial No. 609,522, published July 1, 1952. Class 35.
Willems & Company: *See*—
Willems, Edward J.
Willems, Edward J., doing business as Willems & Company, Brooklyn, N. Y. Finished cast and forged metal fittings. 564,280, Sept. 23; Serial No. 579,245, published July 8, 1952. Class 13.
Winthrop-Stearns Inc.: *See*—
Farbenfabriken of Elberfeld Co.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Washing and cleaning compound. 564,301, Sept. 23; Serial No. 587,416, published July 8, 1952. Class 52.
Yarnall-Waring Company, Philadelphia, Pa. Valves. 564,476, Sept. 23; Serial No. 623,229, published July 8, 1952. Class 13.
Youngstown Industries, Inc., Girard, Ohio. Permanent aluminum awnings. 564,461, Sept. 23; Serial No. 620,765, published June 3, 1952. Class 12.
Zion Industries, Inc., Zion, Ill. Candy, bakers' confections, and prepared frozen pastry dough. 564,266, Sept. 23; Serial No. 570,348, published June 24, 1952. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Peat moss. Atkins & Durbrow, Inc. 199,136, June 2, 1925. Republished Sept. 23.
Seed, Clover. Rudy-Patrick Seed Company. 564,526, Sept. 23; Serial No. 615,415.
Seeds. Ferry-Morse Seed Co. 564,318, Sept. 23; Serial No. 594,441, published July 8, 1952.

CLASS 2

Bags, Paper. Stocker Manufacturing Company. 564,409, Sept. 23; Serial No. 613,535, published July 1, 1952.
Bags, Paper. The Union Bag and Paper Company. 86,965, re-renewed June 11, 1952. O. G. Sept. 23.
Boxes, Fibre-board and corrugated-board, and shipping cartons. Container Corporation of America. 564,390, Sept. 23; Serial No. 611,641, published June 24, 1952.
Boxes, Plastic household decorative. National Potteries. 564,343, Sept. 23; Serial No. 604,590, published July 1, 1952.
Bucket, Insulated portable. The Hamilton Metal Products Company. 564,399, Sept. 23; Serial No. 612,611, published June 24, 1952.
Buckets, Empty portable. The Sponge Rubber Products Company. 564,307, Sept. 23; Serial No. 589,812, published June 24, 1952.
Cabinets. American Linen Supply Co. 564,285, Sept. 23; Serial No. 580,867, published July 1, 1952.
Cabinets. American Linen Supply Co. 564,286, Sept. 23; Serial No. 580,870, published July 1, 1952.
Cabinets. American Linen Supply Co. 564,287, Sept. 23; Serial No. 580,872, published July 1, 1952.
Cartons. Mono Service Co. 298,749, renewed Nov. 1, 1952. O. G. Sept. 23.
Envelopes and bags, Paper. Phoenix Products Company. 564,267, Sept. 23; Serial No. 578,409, published Jan 16, 1951. (Consolidated certificated Classes 2, 37, and 50.)
Envelopes, Merchandise, bags, and pouches. Shellmar Products Corporation. 564,379, Sept. 23; Serial No. 610,191, published July 1, 1952.
Hampers, Clothes. F. A. Whitney Carriage Company. 564,458, Sept. 23; Seiral No. 620,449, published June 24, 1952.
Storage chests, Silverware or tableware. Oneida Ltd. 564,282, Sept. 23; Serial No. 579,552, published July 1, 1952.
Tanks, Dewatering. Claude B. Schneible Company. 564,258, Sept. 23; Serial No. 548,535, published June 24, 1952.

CLASS 3

Billfold and coin purse, Combined. Amity Leather Products Co. 564,369, Sept. 23; Serial No. 608,651, published July 1, 1952.
Empty beach bags and general utility handled sack. Royal Robes Inc. 564,320, Sept. 23; Serial No. 595,417, published July 1, 1952.
Handbags, Ladies'. J. Greenbaum. 564,485, Sept. 23; Serial No. 624,536, published July 1, 1952.
Handbags, wallets, and travelling cases, Ladies'. U. S. Handbag Corporation. 564,441, Sept. 23; Serial No. 619,045, published July 1, 1952.
Handbags, wallets, travelling cases, etc., Ladies'. U. S. Handbag Corporation. 564,417, Sept. 23; Serial No. 614,526, published July 1, 1952.
Holders in the nature of a carrying case or luggage item. L. H. Pries. 564,256, Sept. 23; Serial No. 539,557, published July 1, 1952.
Purses. St. Thomas Inc. 564,487, Sept. 23; Serial No. 624,900, published July 1, 1952.
Receipt cases, pocketbooks, portfolios, etc. George Seelman & Sons Co. 564,462, Sept. 23; Serial No. 620,861, published July 8, 1952.
Wallets. Aristocrat Leather Products, Inc. 564,437, Sept. 23; Serial No. 618,670, published July 8, 1952.

CLASS 4

Grinding, abrading, polishing, cutting-off, and knife sharpening wheels. Bay State Abrasive Products Company. 564,316, Sept. 23; Serial No. 593,906, published Nov. 13, 1951.
Steel wool pads with soap incorporated therein. V S B Mfg. Co. 564,377, Sept. 23; Serial No. 610,036, published June 24, 1952.
Wax, Automobile and furniture. Bostwick Laboratories, Inc. 564,374, Sept. 23; Serial No. 609,776, published July 8, 1952.

CLASS 5

Adhesive, Plywood. United States Plywood Corporation. 564,420, Sept. 23; Serial No. 614,732, published July 8, 1952.
Concentrated waste lyes. International Paper Co. 87,768, re-renewed Aug. 6, 1952. O. G. Sept. 23.

CLASS 6

Anhydrous ammonia. Shell Chemical Corporation. 564,478, Sept. 23; Serial No. 623,479, published June 24, 1952.
Chemical compositions. W. A. Cleary Corporation. 564,489, Sept. 23; Serial No. 625,194, published June 24, 1952.
Chemical products. William S. Gray & Co. 298,612, renewed Nov. 1, 1952. O. G. Sept. 23.
Chromic acid. Diamond Alkali Company. 564,419, Sept. 23; Serial No. 614,653, published June 24, 1952.
Ester of rosin. Hercules Powder Company. 297,813–4, renewed Oct. 4, 1952. O. G. Sept. 23.
Fungicides. Ferro Chemical Corporation. 564,382, Sept. 23; Serial No. 610,546, published June 24, 1952.
Insecticides. Plantabbs Corporation. 294,211, May 24, 1932. Republished Sept. 23.
Medical compound. The Warren-Teed Products Company. 340,569, Nov. 17, 1936. Canceled Aug. 15, 1952. O. G. Sept. 23.
Metallic oxide powder. Henry L. Crowley & Company, Inc. 564,435, Sept. 23; Serial No. 617,474, published June 24, 1952.
Miticides. Allied Chemical & Dye Corporation. 564,440, Sept. 23; Serial No. 619,001, published June 24, 1952.
Reagent used in detecting urine sugar. J. Hilgers. 550,175, Oct. 30, 1951., Canceled July 29, 1952. O. G. Sept. 23.
Rodenticides. d-Con Company, Inc. 564,469, Sept. 23; Serial No. 621,757, published June 24, 1952.
Salt-casein composition, Finely ground, heavy metal. Hercules Powder Company. 564,429, Sept. 23; Serial No. 616,291, published June 24, 1952.
Silicate of soda. Philadelphia Quartz Company. 564,492, Sept. 23; Serial No. 626,408, published July 8, 1952.
Sodium hypochlorite concentrates. J. C. Maurer. 564,331, Sept. 23; Serial No. 601,225, published June 24, 1952.
Starch and disinfectant preparation, warp sizing compound. Texize Chemicals Inc. 564,391, Sept. 23; Serial No. 611,729, published June 24, 1952.
Synthetic resin to be used in protective coatings and in molded products. Hercules Powder Company. 296,562, Aug. 9, 1932. Republished Sept. 23.
Thick tacky paste composed of latex and hydraulic cements. Marine Development Corporation. 564,412, Sept. 23; Serial No. 613,880, published Jan. 1, 1952.
Vacuum diffusion pump fluids. National Research Corporation. 564,394, Sept. 23; Serial No. 612,028, published June 24, 1952.
Water repellent wood preservative. Chapman Chemical Company. 564,488, Sept. 23; Serial No. 624,930, published June 24, 1952.
Wax-like material. The Baker Castor Oil Company. 564,387, Sept. 23; Serial No. 611,064, published June 24, 1952.
Wetting agent. Haas Miller Corporation. 564,491, Sept. 23; Serial No. 625,599, published June 24, 1952.

CLASS 10

Fertilizer. Maryland Lime & Fertilizer Corp. 443,103, July 19, 1949. Cancelled July 29, 1952. O. G. Sept. 23.

CLASS 11

Carbon paper and typewriter ribbons. L C Smith & Corona Typewriters Inc. 294,139, renewed May 17, 1952. O. G. Sept. 23.
Carbon paper and typewriter ribbons. L C Smith & Corona Typewriters Inc. 294,529, renewed May 31, 1952. O. G. Sept. 23.

CLASS 12

Asphalt additives. Lancaster Processes, Inc. 564,299, Sept. 23; Serial No. 586,921, published June 24, 1952.
Awnings, canopies, shades, etc. Orchard Brothers Incorporated. 564,268, Sept. 23; Serial No. 572,116, published Oct. 17, 1950.
Awnings, Permanent aluminum. Youngstown Industries, Inc. 564,461, Sept. 23; Serial No. 620,765, published June 3, 1952.
Cement, Mineral wool asbestos. The Eagle-Picher Company. 564,376, Sept. 23; Serial No. 610,008, published May 27, 1952.
Cements, bricks, crucibles, etc. The Magnesia Syndicate, Ltd. 38,441, re-renewed June 10, 1952. O. G. Sept. 23.
Concrete mixture, Refractory. A. P. Green Fire Brick Company. 564,427, Sept. 23; Serial No. 616,094, published June 3, 1952.
Constructional metal. British Oilfield Equipment Co. Limited. 564,396, Sept. 23; Serial No. 612,149, published June 17, 1952.
Door assemblies, Roll type. J. A. Barrison. 564,524, Sept. 23; Serial No. 612,675.
Doors, Shower. Flat Metal Manufacturing Company. 564,389, Sept. 23; Serial No. 611,511, published June 17, 1952.

Floor tiles, Asphalt. Mastic Tile Corporation. 564,434, Sept. 23; Serial No. 617,544, published July 1, 1952.
Floor tiles, Vinyl plastic asphalt. Mastic Tile Corporation. 564,433, Sept. 23; Serial No. 617,543, published July 1, 1952.
Floor, wall, and ceiling tiles. The Mosaic Tile Company. 564,454, Sept. 23; Serial No. 619,892, published May 27, 1952.
Insulating jackets for boiler. Haydon Products Corporation. 564,400, Sept. 23; Serial No. 612,690, published June 24, 1952.
Laminated material adapted for structural use. Haskelite Manufacturing Corporation. 564,326, Sept. 23; Serial No. 599,375, published July 1, 1952.
Lime for construction use. United States Gypsum Company. 564,262, Sept. 23; Serial No. 562,972, published May 27, 1952.
Metal chalk troughs, head and mullion trim channels, and metal end stops. Loxit Systems, Inc. 564,295, Sept. 23; Serial No. 585,853, published June 17, 1952.
Metal screen doors and window screens, and metal storm sash. Vulcan Metal Products Company. 564,288, Sept. 23; Serial No. 581,540, published June 3, 1952.
Multiple glass sheet glazing units for insulating purposes. Safetee Glass Company. 564,344, Sept. 23; Serial No. 604,663, published July 1, 1952.
Perlite, Expanded. Ozark-Mahoning Company. 564,380, Sept. 23; Serial No. 610,333, published May 27, 1952.
Prefabricated steel buildings. Stefco Manufacturing Company. 564,421, Sept. 23; Serial No. 614,909, published May 27, 1952.
Putty. New England Coating Works, Inc. 564,432, Sept. 23; Serial No. 617,205, published June 3, 1952.
Rock wool insulation. C. J. Rusden. 564,312, Sept. 23; Serial No. 592,224, published May 27, 1952.
Rotary gear, sliding recessed door unit, complete with frame. Garrick and Custer, Inc. 564,350, Sept. 23; Serial No. 606,289, published June 3, 1952.
Thermoplastic materials. Robinson Industries. 564,325, Sept. 23; Serial No. 599,262, published June 17, 1952.
Vermiculite aggregate. Pyrok Limited. 564,426, Sept. 23; Serial No. 615,793, published July 1, 1952.
Wall tile, Plastic. A1 Plastic Molders, Inc. 564,460, Sept. 23; Serial No. 620,652, published June 17, 1952.
Window construction, Pre-formed. General Building Materials, Inc. 564,388, Sept. 23; Serial No. 611,129, published June 17, 1952.

CLASS 13

Bath shower and sprayer, Portable. Sears, Roebuck and Co. 564,298, Sept. 23; Serial No. 586,883, published July 8, 1952.
Chains for sprocket wheels. Boston Gear Works, Inc. 297,990, renewed Oct. 11, 1952. O. G. Sept. 23.
Couplings. J. B. Smith. 564,529, Sept. 23; Serial No. 617,846.
Finished cast and forged metal fittings. E. J. Willems. 564,280, Sept. 23; Serial No. 579,245, published July 8, 1952.
Floor, roof, deck, shower, areaway, and ice-box drains and strainers therefor, swimming-pool fittings, etc. Hoffman Specialty Company. 564,313, Sept. 23; Serial No. 593,120, published July 8, 1952.
Glass shower stall doors, glass shower bath shields, and glass bath enclosures. L. H. Lehman. 297,139, renewed Sept. 6, 1952. O. G. Sept. 23.
Glass shower stall doors, shower bath shields and bath enclosures. L. H. Lehman. 296,950, renewed Aug. 30, 1952. O. G. Sept. 23.
Metallic fittings and couplings. H. E. Reese. 564,480, Sept. 23; Serial No. 623,679, published July 8, 1952.
Pipe joints or couplings. Jefferson Union Company, Inc. 564,482, Sept. 23; Serial No. 623,767, published July 8, 1952.
Piping attachment for producing differential pressure. Edward Valves, Inc. 564,468, Sept. 23; Serial No. 621,661, published July 8, 1952.
Pressure regulators, combustion controls, steam traps, etc. Julian D'Este Company. 230,461, July 26, 1927. Republished Sept. 23.
Racks for shelving, Portable metal. Standard Steel Works. 564,522, Sept. 23; Serial No. 612,040.
Shelf supporting brackets. Unistrut Corporation. 564,414, Sept. 23; Serial No. 614,021, published July 8, 1952.
Toilet seats, toilet bowls, and parts thereof. Arkwright Merchandising Corporation. 564,473, Sept. 23; Serial No. 622,523, published July 8, 1952.
Valves. Yarnall-Waring Company. 564,476, Sept. 23; Serial No. 623,229, published July 8, 1952.
Valves, Pressure control, volume control valves, etc. Vickers, Incorporated. 551,076, Nov. 20, 1951. Amended. O. G. Sept. 23.

CLASS 14

Hard metal composition or alloy. Carboloy Company, Inc. 297,659–60, renewed Sept. 27, 1952. O. G. Sept. 23.

CLASS 15

Grease, Lead base lubricating. The Elco Grease & Oil Company. 292,691, renewed Mar. 22, 1952. O. G. Sept. 23.
Oil, Motor. Westville Oil and Manufacturing, Inc. 564,381, Sept. 23; Serial No. 610,394, published May 27, 1952.
Petroleum products. Macmillan Petroleum Corporation. 315,325, July 24, 1934. Corrected. O. G. Sept. 23.

CLASS 16

Dry powder for non-washable wall finish. Benjamin Moore & Co. 69,301, June 2, 1908. Republished Sept. 23.
Lacquers, paint enamels, and varnish enamels. Benjamin Moore & Co. 223,984, Feb. 15, 1927. Republished Sept. 23.
Paint enamel. The Truscon Laboratories. 293,093, renewed Apr. 12, 1952. O. G. Sept. 23.
Paint, Flat. Benjamin Moore & Co. 399,098, Dec. 15, 1942. Republished Sept. 23.
Paints, Flat oil. Benjamin Moore & Co. 223,660, Feb. 8, 1927. Republished Sept. 23.
Paints, Liquid, and paint enamels. Benjamin Moore & Co. 212,503, May 4, 1926. Republished Sept. 23.
Paints, Mixed. Benjamin Moore & Co. 435,887, Jan. 13, 1948. Republished Sept. 23.
Paints, Mixed, stains, paint enamels, etc. Benjamin Moore & Co. 159,041, Sept. 19, 1922. Republished Sept. 23.
Paints, Ready-mixed. Benjamin Moore & Co. 176,047, Nov. 13, 1923. Republished Sept. 23.
Paints, Ready-mixed. Benjamin Moore & Co. 282,686, Apr. 28, 1931. Republished Sept. 23.
Paints, Ready mixed. Benjamin Moore & Co. 422,346, July 16, 1946. Republished Sept. 23.
Paints, Ready mixed and paint enamels. Benjamin Moore & Co. 351,864, Nov. 9, 1937. Republished Sept. 23.
Paints, Ready-mixed, paint enamels, varnishes, etc. Lehman Bros., Incorporated. 293,934, renewed May 10, 1952. O. G. Sept. 23.
Synthetic resin to be used in protective coatings and in molded products. Hercules Powder Company. 296,562, Aug. 9, 1932. Republished Sept. 23.
Transparent liquid chemical waterproofing compound. Waterlox, Inc. 294,696, renewed June 7, 1952. O. G. Sept. 23.
Transparent liquid chemical waterproofing compound. Waterlox, Inc. 296,982, renewed Aug. 30, 1952. O. G. Sept. 23.
Varnish. Benjamin Moore & Co. 174,227, Oct. 9, 1923. Republished Sept. 23.
Varnish stain. Benjamin Moore & Co. 159,444, Sept. 26, 1922. Republished Sept. 23.

CLASS 17

Cigars. Palicio Fernandez y Compania, S. en C. 297,479, renewed Sept. 13, 1952. O. G. Sept. 23.

CLASS 18

Antibiotic-anesthetic lozenge. Maltbie Laboratories, Inc. 564,333, Sept. 23; Serial No. 601,991, published May 27, 1952.
Antibiotic ointment, Washable base. The Upjohn Company. 564,334, Sept. 23; Serial No. 602,007, published June 3, 1952.
Antibiotic preparation. Chas. Pfizer & Co., Inc. 564,405, Sept. 23; Serial No. 612,932, published May 27, 1952.
Antibiotic preparation. Chas. Pfizer and Co., Inc. 564,453, Sept. 23; Serial No. 619,768, published May 27, 1952.
Antihistaminic compound. Bristol Laboratories Inc. 564,354, Sept. 23; Serial No. 606,747, published May 27, 1952.
Antihypertensive agent. E. R. Squibb & Sons. 564,341, Sept 23; Serial No. 603,554, published June 3, 1952.
Antiseptic. Ciba Limited. 564,363, Sept. 23; Serial No. 607,937, published June 3, 1952.
Antiseptic germicide. E. M. Jackson. 392,411, Dec. 23, 1941. Republished Sept. 23.
Antiseptic preparation. Cubbage & Co. 564,345, Sept. 23; Serial No. 604,771, published June 3, 1952.
Antiseptic preparation. West Laboratories, Inc. 564,410, Sept. 23; Serial No. 613,546, published June 24, 1952.
Antituberculosis compound. Hoffmann-La Roche Inc. 564,486, Sept. 23; Serial No. 624,743, published May 27, 1952.
Biologics, medicines and pharmaceutical preparations, Poultry. Vineland Poultry Laboratories. 564,352, Sept. 23; Serial No. 606,578, published July 8, 1952.
Chlorophyllins sorbalate. Keith-Victor Pharmacal Co. 564,357, Sept. 23; Serial No. 607,334, published May 27, 1952.
Cod liver oil and viosterol. Mead Johnson & Company. 297,187, renewed Sept. 6, 1952. O. G. Sept. 23.
Dietary supplements, Mineral. Henry K. Wampole & Company, Incorporated. 564,444, Sept. 23; Serial No. 619,115, published May 20, 1952.
Diureticum. Farbenfabriken of Elberfeld Co. 39,135, renewed Oct. 28, 1952. O. G. Sept. 23.
Fungicide for veterinary use. E. J. Fay. 564,408, Sept. 23; Serial No. 613,219, published May 27, 1952.
Hypnotic. Schering Corporation. 564,450, Sept. 23; Serial No. 619,652, published May 27, 1952.
Inhalants. Hart Drug Corporation. 297,515, renewed Sept. 20, 1952. O. G. Sept. 23.

Iodine, Natural. Makers of Kal, Inc. 564,413, Sept. 23; Serial No. 613,935, published May 27, 1952.
Isotonic ophthalmic preparation. Alcon Laboratories, Inc. 564,359, Sept. 23; Serial No. 607,469, publisheed June 3, 1952.
Laxative. Bell and Thorne, Inc. 564,355, Sept. 23; Serial No. 606,848, published June 24, 1952.
Laxative, Bulk. Warner-Hudnut, Inc. 564,438, Sept. 23; Serial No. 618,996, published May 20, 1952.
Lumpjaw medicine. A. McCammant. 564,525, Sept. 23; Serial No. 615,075.
Medicinal agent. Smith, Kline & French Laboratories. 564,452, Sept. 23; Serial No. 619,719, published May 27, 1952.
Medicinal lotion. O. R. Ellinger. 564,428, Sept. 23; Serial No. 616,281, published May 27, 1952.
Medicinal ointment. L. N. Potasch. 564,378, Sept. 23; Serial No. 610,185, published May 27, 1952.
Medicinal preparation. The A and O Company, Incorporated. 564,370, Sept. 23; Serial No. 608,845, published May 27, 1952.
Medicinal preparation. Bernhoft Laboratories, Inc. 564,361, Sept. 23; Serial No. 607,536, published June 17, 1952.
Medicinal preparations. All Drugs International Company. 564,332, Sept. 23; Serial No. 601,971, published June 3, 1952.
Medicinal tablet. Allied Drugs, Inc. 564,281, Sept. 23; Serial No. 579,248, published Jan. 29, 1952.
Medicine for stimulation of the central nervous system, etc. Smith, Kline & French Laboratories. 564,293, Sept. 23; Serial No. 584,159, published May 20, 1952.
Multivitamin preparation. Warner-Hudnut, Inc. 564,439, Sept. 23; Serial No. 618,998, published May 20, 1952.
Ointment. Allied Laboratories, Inc. 564,445, Sept. 23; Serial No. 619,281, published May 13, 1952.
Ointment. The Kendall Company. 298,218, renewed Oct. 18, 1952. O. G. Sept. 23.
Oral preparation in tablet form. Abbott Laboratories. 564,328, Sept. 23; Serial No. 599,735, published June 3, 1952.
Pharmaceutical preparation. Charles E. Frosst & Co. 564,347, Sept. 23; Serial No. 605,302, published June 3, 1952.
Pharmaceutical preparation. Herts Pharmaceuticals Limited. 564,306, Sept. 23; Serial No. 589,446, published May 27, 1952.
Pharmaceutical preparation. The S. E. Massengill Company. 564,322, Sept. 23; Serial No. 596,597, published May 20, 1952.
Pharmaceutical preparation. Sigma Chemical Co. 564,364, Sept. 23; Serial No. 608,047, published June 3, 1952.
Pregnenolone. E. S. Miller Laboratories, Inc. 564,317, Sept. 23; Serial No. 594,275, published May 27, 1952.
Preparation for external use in relief of muscular aches and pains. C. A. Jennings. 564,340, Sept. 23; Serial No. 603,195, published May 27, 1952.
Preparation for promoting the granulation and healing of wounds. R. McNeil. 297,810, renewed Oct. 4, 1952. O. G. Sept. 23.
Preparation for the treatment of diseases of the thyroid. Ciba Pharmaceutical Products, Inc. 564,371, Sept. 23; Serial No. 609,076, published May 27, 1952.
Preparation to be taken internally for the purpose of serving as an X-ray contrast medium. American Cystoscope Makers, Inc. 564,386, Sept. 23; Serial No. 611,012, published June 24, 1952.
Product for the treatment of vascular conditions. Schering Corporation. 564,443, Sept. 23; Serial No. 619,108, published May 27, 1952.
Reducing aid. A. H. Mathews & Company. 564,442, Sept. 23; Serial No. 619,094, published May 20, 1952.
Sedative and antispasmodic. The Arcum Pharmaceutical Corporation. 564,303, Sept. 23; Serial No. 587,459, published May 27, 1952.
Sedative and diuretic. The Arcum Pharmaceutical Corporation. 564,302, Sept. 23; Serial No. 587,458, published May 27, 1952.
Sedative, Mild. Somnyl Pharmacal Corporation of America. 564,407, Sept. 23; Serial No. 613,197, published May 27, 1952.
Sedative preparation. Ames Company, Inc. 564,365, Sept. 23; Serial No. 608,140, published June 3, 1952.
Sodium pentobarbital. O'Connell Brothers, Inc. 564,360, Sept. 23; Serial No. 607,511, published June 24, 1952.
Topical local anesthetic. Flint, Eaton and Company. 564,289, Sept. 23; Serial No. 581,654, published June 24, 1952.
Troche containing an antibiotic. American Cyanamid Company. 564,425, Sept. 23; Serial No. 615,742, published May 27, 1952.
Unit of medication. Smith, Kline & French Laboratories. 564,356, Sept. 23, Serial No. 607,207, published May 27, 1952.
Vitamin B_{12} supplement. Commercial Solvents Corporation. 564,362, Sept. 23; Serial No. 607,796, published June 3, 1952.

CLASS 19

Air cylinders of the shock absorbing type. Hanna Engineering Works. 564,502, Sept. 23; Serial No. 574,097.
Anti-draft shields. Convert-O-Shield, Inc. 564,512, Sept. 23; Serial No. 597,814.
Automobile seat covers. Rayco Mfg. Co. 564,513, Sept. 23; Serial No. 600,973.
Dump-wagons, wheel tractor-dump-wagon combinations, etc. Caterpillar Tractor Co. 564,272, Sept. 23; Serial No. 575,190, published Apr. 15, 1952. (Consolidated certificate, Classes 19, 21, and 23.)
Metal strips coated or surfaced with reflective material which are affixed to bicycle pedals. E. P. Lamphier. 564,532, Sept. 23; Serial No. 617,151.
Steamships, motor ships, sailing vessels, etc. Deutsche Werke Kiel Aktiengesellschaft. 258,384, renewed July 9, 1949. O. G. Sept. 23.

CLASS 21

Broilers, Electric. Broil-Quik, Inc. 564,520, Sept. 23; Serial No. 610,306.
Capacitors and dielectric material. General Electric Company. 296,981, renewed Aug. 30, 1952. O. G. Sept. 23.
Composite dielectric or resistance material. General Electric Company. 294,289, renewed May 24, 1952. O. G. Sept. 23.
Electric generators and Diesel electric generator sets, and parts furnished with said products. Caterpillar Tractor Co. 564,272, Sept. 23; Serial No. 574,204, published Mar. 6, 1951. (Consolidated certificate, Classes 19, 21, and 23.)
Electrical hard rubber products. Jos. Stokes Rubber Co. 293,884, renewed May 10, 1952. O. G. Sept. 23.
Electrical switches. The Exhibit Supply Co. 564,517, Sept. 23; Serial No. 607,704.
Electrically operated ozone-producing devices of the type employing ultra-violet ray lamps. Sanitron, Inc. 564,523, Sept. 23; Serial No. 612,475.
Pressure switches. Vickers, Incorporated. 543,780, June 12, 1951. Amended. O. G. Sept. 23.
Switches, Electrical, electrical cut-outs, switch-plates, etc. The Hart & Hegeman Manufacturing Company. 88,676, re-renewed Oct. 15, 1952. O. G. Sept. 23.
Television amplifiers. Sonic Industries, Inc. 564,514, Sept. 23; Serial No. 602,861.
Wires and cables, Electrical. General Cable Corporation. 564,507, Sept. 23; Serial No. 591,028.

CLASS 22

Bicycle, Combination children's. The Huffman Manufacturing Company. 564,284, Sept. 23; Serial No. 580,842, published July 8, 1952.
Dolls. Miss Matteson Doll Co. Not Inc. 564,337, Sept. 23; Serial No. 602,703, published July 8, 1952.
Fish lures. The Actual Lure Co., Inc. 564,531, Sept. 23; Serial No. 620,653.
Fishing lines. United States Whip Company. 564,505, Sept. 23; Serial No. 585,965.
Games. J. A. Core. 564,339, Sept. 23; Serial No. 603,050, published July 8, 1952.
Kites. The Hi-Flier Manufacturing Company. 564,515, Sept. 23; Serial No. 603,011.
Skis and ski poles. A. G. Spalding & Bros. Inc. 550,979, Nov. 20, 1951. Corrected. O. G Sept. 23.
Toy. J. M. Auzin. 564,300, Sept. 23; Serial No. 587,173, published July 8, 1952.
Toy, Hammer. J. Morrison. 564,351, Sept. 23; Serial No. 606,388, published July 8, 1952.
Toy models. Hyster Company. 564,296, Sept. 23; Serial No. 586,166, published May 13, 1952.
Toy, Optical illusion. Crown Toy Mfg. Corp. 564,510, Sept. 23; Serial No. 596,394.
Toy savings banks, Novelty. D. Chase. 564,294, Sept. 23; Serial No. 585,217, published June 17, 1952.
Whistle-calls. J. Hudson. 88,184, re-renewed Sept. 3, 1952. O. G. Sept. 23.

CLASS 23

Apparatus for the treatment of solids suspended in liquids. The Dorr Company, Inc. 295,572, renewed July 5, 1952. O. G. Sept. 23.
Clutch plates and discs. Accurate Parts Manufacturing Company. 298,002, renewed Oct. 11, 1952. O. G. Sept. 23.
Clutch plates and discs. Accurate Parts Manufacturing Company. 298,077, renewed Oct. 11, 1952. O. G. Sept. 23.
Concrete mixers. Muller Machinery Co., Inc. 564,254, Sept. 23; Serial No. 515,192, published Dec. 18, 1951.
Crushing machinery. Nordberg Manufacturing Company. 564,264, Sept. 23; Serial No. 566,095, published Dec. 13, 1949.
Diesel and other internal combustion engines, etc. Caterpillar Tractor Co. 564,272, Sept. 23; Serial No. 574,205, published Apr. 29, 1952. (Consolidated certificate, Classes 19, 21 and 23.)
Dual axle spring assemblies and foundry equipment. Newayge Engineering Company. 547,425, Sept. 4, 1951. Amended. O. G. Sept. 23.
Dust collectors, dust conveyors and separating units. Charles W. Goldhammer. 564,290, Sept. 23; Serial No. 582,835, published June 3, 1952.
Ejectors. The United Injector Company. 88,644, re-renewed Oct. 8, 1952. O. G. Sept. 23.
Gears, Spur, worm gears and worms therefor, etc. Boston Gear Works, Inc. 298,486, renewed Oct. 25, 1952. O. G. Sept. 23.

Hydraulic power transmission devices. Vickers, Incorporated. 530,775, Sept. 19, 1950. Amended. O. G. Sept. 23.
Internal combustion engines. The White Motor Company. 564,279, Sept. 23; Serial No. 579,244, published June 10, 1952.
Knitting machinery and parts thereof. The Bentley Engineering Company. 291,035, renewed Jan. 26, 1952. O. G. Sept. 23.
Lawn mowers. Outboard Motors Corporation. 297,362. renewed Sept. 13, 1952. O. G. Sept. 23.
Lawn mowers, Hand and power, grass catchers, grass and hedge shears, etc. The National Ideal Company. 564,269, Sept. 23; Serial No. 572,511, published July 1, 1952.
Mechanical device adapted for attachment to typewriters. The Egry Register Company. 564,336, Sept. 23; Serial No. 602,312, published June 24, 1952.
Plows, plow stocks, steam engines, etc. A. B. Farquhar Company. 564,397, Sept. 23; Serial No. 612,200, published June 10, 1952.
Pumps, Industrial. Nagle Pumps, Inc. 564,467, Sept. 23; Serial No. 621,605, published June 3, 1952.
Pumps, Power driven. Nordac Limited. 564,375, Sept. 23; Serial No. 609,982, published June 24, 1952.
Pumps, Power operated shallow-well, and power operated utility or general purpose pumps. Robbins & Myers, Inc. 564,456, Sept. 23; Serial No. 620,110, published July 8, 1952.
Shoe machinery. Pope Machinery Corporation. 295,432, renewed June 28, 1952. O. G. Sept. 23.
Static pressure or vacuum regulators; diaphragm valves, etc. The Powers Regulator Company. 564,349, Sept. 23; Serial No. 606,084, published July 1, 1952.
Unitary self-propelled implement. R. G. Le Tourneau, Inc. 441,217, Nov. 2, 1948. Republished Sept. 23.
Woodworking machinery. Earle Hart Woodworking Machine Co. 564,263, Sept. 23; Serial No. 563,337, published June 24, 1952.

CLASS 24

Washing machines, Automatic electric. Mandel Brothers, Inc. 564,534, Sept. 23; Serial No. 622,751.

CLASS 25

Locks and hardware therefor, Door. Technical Glass Company, Inc. 564,518, Sept. 23; Serial No. 608,519.

CLASS 26

Scales. The Howe Scale Company. 87,997, re-renewed Aug. 20, 1952. O. G. Sept. 23.

CLASS 27

Watches, watch movements, and watch cases. Elgin National Watch Company. 297,034, Aug. 30, 1932. Republished Sept 23.

CLASS 28

Silver-plated flat-ware and hollow-ware. International Silver Company. 297,733, renewed Sept. 27, 1952. O. G. Sept. 23.

CLASS 30

Crockery, earthenware, and porcelain products. Gregory Waylande. 564,511, Sept. 23; Serial No. 596,419.
Pottery, dinnerware, and analogous glazed earthenware. Metlox Manufacturing Co. 564,503, Sept. 23; Serial No. 578,511.

CLASS 31

Closed form in which units of fluid and bulk material are frozen. Lloyd G. Taylor. 564,324, Sept. 23; Serial No. 598,225, published June 17, 1952.
Coolers and dispensers, Electrically actuated, refrigerated beverage. The Ebco Manufacturing Company. 564,464, Sept. 23; Serial No. 621,004, published June 10, 1952.
Coolers, Milk. Esco Cabinet Company. 564,367, Sept. 23; Serial No. 608,397, published June 10, 1952.
Diatomaceous earth in finely comminuted form for use as a filter aid. Great Lakes Carbon Corporation. 564,261, Sept. 23; Serial No. 562,703, published June 10, 1952.
Dust collectors of the filter type. Arnold L. Lund. 564,319, Sept. 23; Serial No. 595,218, published June 3, 1952.
Filters. Cory Corporation. 564,484, Sept. 23; Serial No. 624,229, published June 10, 1952.
Filters and parts thereof, Air. The New York Air Brake Company. 564,422, Sept. 23; Serial No. 615,400, published June 3, 1952.
Filters, Rotary-leaf pressure. Suchar Engineering & Sales Company. 564,271, Sept. 23; Serial No. 573,601, published June 24, 1952.
Refrigerating units. Mitchell Manufacturing Company. 564,321, Sept. 23; Serial No. 596,175, published June 10, 1952.

CLASS 32

Beds and mattresses. Wm. Long Cornices & Bedheads. 564,260, Sept. 23; Serial No. 562,074, published July 1, 1952.
Furniture. Kent-Coffey Manufacturing Company. 564,403–4, Sept. 23; Serial Nos. 612,918–19, published July 8, 1952.
Furniture, Kitchen. United Furniture Stores. 369,403, July 25, 1939. Canceled Aug. 15, 1952. O. G. Sept. 23.
Mattresses, Cotton, cotton felt mattresses, hair mattresses, etc. The International Bedding Company. 564,402, Sept. 23; Serial No. 612,864, published July 8, 1952.
Pillows. Burton-Dixie Corporation. 298,526, renewed Nov. 1, 1952. O. G. Sept. 23.
Sofas, beds, and folding sofa bed constructions. The American Bed & Spring Company. 564,277, Sept. 23; Serial No. 578,755, published July 8, 1952.
Sofas, chairs, love seats, etc., Upholstered. Foam Rubber Products. 564,368, Sept. 23; Serial No. 608,416, published July 8, 1952.
Sofas, Convertible, and convertible chairs. Babry Bedding Corporation. 564,465, Sept. 23; Serial No. 621,048, published July 8, 1952.

CLASS 34

Heaters, Gas-operated water, and gas-operated heating-stoves. United States Stove Company. 389,575, Aug. 12, 1941. Amended. O. G. Sept. 23.
Lamp-burners. Scoville Manufacturing Company. 88,121, re-renewed Aug. 27, 1952. O. G. Sept. 23.

CLASS 35

Belting, hose and packing. The Cincinnati Rubber Mfg. Co. 564,292, Sept. 23; Serial No. 584,107, published July 24, 1951.
Belting, Leather. Graton & Knight Company. 298,524, renewed Nov. 1, 1952. O. G. Sept. 23.
Brake linings and clutch linings. Rich. Klinger Gesellschaft mit Beschrankter Haftung. 288,705, renewed Nov. 3, 1951. O. G. Sept. 23.
Closet bowl setting seal rings. Radintor Specialty Company. 564,393, Sept. 23; Serial No. 611,976, published June 24, 1952.
Gasoline hose, distillate hose, tank wagon hose, etc. Lee Rubber & Tire Corporation. 564,314, Sept. 23; Serial No. 593,129, published June 24, 1952.
Packing for pipe-joints. American Manufacturing Company. 564,424, Sept. 23; Serial No. 615,434, published July 8, 1952.
Packings, Machinery. Rockwell Leather & Packing Co., Inc. 564,423, Sept. 23; Serial No. 615,414, published July 8, 1952.
Piston rings. Wilkening Manufacturing Company. 564,373, Sept. 23; Serial No. 609,522, published July 1, 1952.
Power transmission belts. The Gates Rubber Company. 564,451, Sept. 23; Serial No. 619,703, published July 8, 1952.
Rubber tire recapping or retreading stock, and tire repair material. The Danbury Rubber Company, Inc. 564,348, Sept. 23; Serial No. 606,000, published June 24, 1952.
Tire and tube repair patches. The Buxbaum Company. 564,415, Sept. 23; Serial No. 614,336, published June 24, 1952.

CLASS 37

Articles made of paper or paper board. Phoenix Products Company. 564,267, Sept. 23; Serial No. 586,187, published Mar. 18, 1952. (Consolidated certificate Classes 2, 37, and 50.)
Crayon, Sticks of. United Crayon Co. Inc. 564,255, Sept. 23; Serial No. 517,754, published July 8, 1952.
Display albums and loose leaf binders. Joshua Meier Company, Inc. 564,335, Sept. 23; Serial No. 602,271, published June 3, 1952.
Loose-leaf books and binders, accounting record, and ledger sheets, etc. Kalamazoo Limited. 564,330, Sept. 23; Serial No. 601,150, published June 10, 1952.
Office supplies. Koh-I-Noor, Pencil Factory L. & C. Hardtmuth, National Corporation. 548,283, Sept. 18, 1951. Canceled Aug. 15, 1952. O. G. Sept. 23.
Paper, Book. The Martin Cantine Company. 564,257, Sept. 23; Serial No. 541,558, published July 1, 1952.
Paper, Ledger and bond. Weston Byron Company. 297,923, Oct. 4, 1932. Republished Sept. 23, 1952.
Paper napkins and paper towels. Crown Zellerbach Corporation. 564,448, Sept. 23; Serial No. 619,452, published June 3, 1952.
Paper, Printing, and correspondence envelopes. The Barton, Duer & Koch Paper Company. 564,463, Sept. 23; Serial No. 620,952, published June 24, 1952.
Paper, Rolls of. American Air Filter Company, Inc. 564,383, Sept. 23; Serial No. 610,658, published June 3, 1952.
Paper, Wrapping. Benmont Papers Inc. 564,327, Sept. 23; Serial No. 599,491, published July 8, 1952.
Papers, Transfer. Masson Seeley and Company Limited. 564,474, Sept. 23; Serial No. 622,608, published June 17, 1952.
Pencils. Swan Pencil Company, Inc. 564,483, Sept. 23; Serial No. 624,110, published June 24, 1952.
Stationery. T. V. Allen Company. 564,446, Sept. 23; Serial No. 619,325, published July 1, 1952.
Toilet tissue. Crown Zellerbach Corporation. 564,470, Sept. 23; Serial No. 622,012, published June 10, 1952.

Waxed paper food dividers. Crown Zellerbach Corporation. 564,310, Sept. 23; Serial No. 591,613, published June 3, 1952.
Wrapping material. Shellmar Products Corporation. 564,274, Sept. 23; Serial No. 577,148, published June 24, 1952.

CLASS 39

Bed jackets, brunch coats, house coats, house dresses, etc. The Eastern Isles, Inc. 518,509, Dec. 6, 1949. Canceled Aug. 15, 1952. O. G. Sept. 23.
Bed jackets, nightgowns and pajamas, Women's and children's. Colura Feminine Fashions, Inc. 531,832, Oct. 10, 1950. Canceled Aug. 15, 1952. O. G. Sept. 23.
Bedjackets, nightgowns, and pajamas, Women's and children's. I. H. Elfenbein. 421,313, May 28, 1946. Canceled Aug. 15, 1952. O. G. Sept. 23.
Blouses, Ladies', ladies' shirtwaists, and ladies' waists. Lerner Blouse Co. 354,455, Feb. 15, 1938. Republished Sept. 23.
Caps and hats. John Cavanagh, Ltd. 293,326, renewed Apr. 19, 1952. O. G. Sept. 23.
Coats, vests, pants, etc., Men's, young men's, youths', and boys'. Merit Clothing Company, Inc. 297,234, Sept. 6, 1932. Corrected. O. G. Sept. 23.
Corsettes. W. B. Foundations, Incorporated. 564,530, Sept. 23; Serial No. 620,179.
Gloves, Fabric. Julius Kayser & Co. 564,519, Sept. 23; Serial No. 609,929.
Hosiery. Artcraft Silk Hosiery Mills, Inc. 294,336, renewed May 24, 1952. O. G. Sept. 23.
Hosiery. Richmond Hosiery Mills. 85,617, re-renewed Feb. 27, 1952. O. G. Sept. 23.
Hosiery, Women's. Artcraft Silk Hosiery Mills, Inc. 298,560, renewed Nov. 1, 1952. O. G. Sept. 23.
Hosiery, Women's nylon. H. Hertz. 564,521, Sept. 23; Serial No. 610,443.
Hosiery, Women's nylon. Nansue Hosiery Co. 564,466, Sept. 23; Serial No. 621,161, published July 1, 1952.
Raincoats and topcoats for men. The Alligator Company. 564,342, Sept. 23; Serial No. 603,659, published July 1, 1952.
Shoes. Brown Shoe Company, Inc. 298,046, renewed Oct. 11, 1952. O. G. Sept. 23.
Skirts and blouses, Girls', misses', and ladies'. Adelaar Bros., Inc. 549,732, Oct. 16, 1951. Canceled Aug. 15, 1952. O. G. Sept. 23.
Sweaters and sweater ensembles, Women's. Elgin Knit Sportswear, Inc. 564,500, Sept. 23; Serial No. 565,325.
Underwear, Knitted. Ryff & Co. Ltd. 293,531, renewed Apr. 26, 1952. O. G. Sept. 23.

CLASS 40

Combs. New-York Hamburger Gummi-Waaren Compagnie. 291,836, renewed Feb. 23, 1952. O. G. Sept. 23.

CLASS 42

Bedspreads, sheets, pillow cases, etc. The Lurgan Weaving Company, Limited. 296,063, renewed July 19, 1952. O. G. Sept. 23.
Fabric, Cotton textile. F. R. Redman. 564,475, Sept. 23; Serial No. 622,954, published July 1, 1952.
Fabric, Rayon tire cord. Industrial Rayon Corporation. 564,308, Sept. 23; Serial No. 590,084, published Jan. 29, 1952.
Fabrics. The Schwarzenbach-Huber Company. 564,527, Sept. 23; Serial No. 617,128.
Fabrics, Textile. Hego Fabrics, Inc. 564,490, Sept. 23; Serial No. 625,351, published July 1, 1952.
Fabrics, Textile. Shirley Fabrics Corp. 564,539, Sept. 23; Serial No. 626,347.
Piece goods, Woolen, and woolen suitings and coatings. Morris W. Haft & Brothers, Inc. 295,674, renewed July 5, 1952. O. G. Sept. 23.
Rugs, Hand-loomed cotton. Topton Rug Manufacturing Co. 564,398, Sept. 23; Serial No. 612,284, published July 1, 1952.
Sheets and pillow-cases. Naumkeag Steam Cotton Company. 89,052, re-renewed Nov. 5, 1952. O. G. Sept. 23.
Tablecloths, textile tea sets, window curtains, etc. McNeill and McNeill. 564,499, Sept. 23; Serial No. 510,100.
Textile ribbons, Woven edge. National Ribbon Corp. 564,538, Sept. 23; Serial No. 624,561.
Woolen, silk, cotton, rayon and/or combinations thereof in the piece. N. Fluegelman & Co., Inc. 297,882, renewed Oct. 4, 1952. O. G. Sept. 23.

CLASS 43

Thread, Cotton. Standard-Coosa-Thatcher Company. 298,626–7, renewed Nov. 1, 1952. O. G. Sept. 23.

CLASS 44

Catheters, Nasal, stomach tubes, rectal tubes, etc. Baxter Laboratories, Inc. 564,305, Sept. 23; Serial No. 589,065, published July 8, 1952.
Hearing-aids and acoustic elements and accessories thereof. Sonotone Corporation. 564,283, Sept. 23; Serial No. 580,523, published July 8, 1952.
Pessaries. Di-Fram-Ette, Inc. 564,506, Sept. 23; Serial No. 589,586.
Porous and absorbent material for collecting and processing tissue elements for sponge biopsy. Histomed, Incorporated. 564,270, Sept. 23; Serial No. 573,323, published July 8, 1952.
Stretchers, Wheeled, elevating litter stretchers, etc. The Colson Corporation. 564,276, Sept. 23; Serial No. 578,570, published July 8, 1952.
Syringes, Fountain, surgical nozzles and tubing for syringes, etc. S. H. Kress and Company. 564,278, Sept. 23; Serial No. 578,857, published July 8, 1952.
Toothpicks. The Grocers & Producers Co. 294,143, renewed May 17, 1952. O. G. Sept. 23.

CLASS 45

Beverages and concentrates, Nonalcoholic, noncereal, maltless. Nehi, Inc. 294,961–2, June 14, 1932. Republished Sept. 23.

CLASS 46

Alimentary paste products. John Minervini, Inc. 295,080, renewed June 14, 1952. O. G. Sept. 23.
Bread. W. P. C. Smith. 564,430, Sept. 23; Serial No. 616,648, published July 1, 1952.
Candy. Leaf Brands, Inc. 564,533, Sept. 23; Serial No. 621,472.
Candy. Rogers Candy Company. 564,273, Sept. 23; Serial No. 576,658, published June 17, 1952.
Candy and salted nuts. Mary Sue Sales Co. 564,471, Sept. 23; Serial No. 622,345, published June 17, 1952.
Candy, bakers' confections, and prepared frozen pastry dough. Zion Industries, Inc. 564,266, Sept. 23; Serial No. 570,348, published June 24, 1952.
Candy substitutes. Charles Killgore Company, Inc. 564,447, Sept. 23; Serial No. 619,391, published June 17, 1952.
Canned and frozen fruits and vegetables. Clayglor Corporation. 564,431, Sept. 23; Serial No. 617,107, published June 17, 1952.
Canned fruits and vegetables. General Grocery Co. 394,951, May 5, 1942. Canceled Aug. 15, 1952. O. G. Sept. 23.
Canned salt water fish. Pesquera Iquique S. A. 564,291, Sept. 23; Serial No. 582,855, published July 1, 1952.
Canned sardines. Monterey Canning Co. 564,346, Sept. 23; Serial No. 604,920, published July 1, 1952.
Canned tomatoes. John Minervini, Inc. 292,273, renewed Mar. 8, 1952. O. G. Sept. 23.
Canned vegetables; canned fruits and berries; etc. Allen Foods, Inc. 564,315, Sept. 23; Serial No. 593,455, published July 1, 1952.
Cheese, Blue. The Geneva Corporation. 403,914, Oct. 19, 1943. Canceled Aug. 15, 1952. O. G. Sept. 23.
Cheese food, Pasteurized process. Hygrade Food Products Corporation. 564,536, Sept. 23; Serial No. 623,889.
Cheese spread, Pasteurized process American. Clearfield Cheese Co., Inc. 564,528, Sept. 23; Serial No. 617,783.
Coffee. Hard & Rand, Inc. 564,481, Sept. 23; Serial No. 623,762, published July 1, 1952.
Coffee. D. W. Ohlandt & Sons. 294,084, renewed May 17, 1952. O. G. Sept. 23.
Confections, Frozen. Hammond Ice Cream Co., Inc. 564,472, Sept. 23; Serial No. 622,436, published June 24, 1952.
Cranberries, Fresh. National Cranberry Association. 564,358, Sept. 23; Serial No. 607,369, published July 1, 1952.
Edible cones and cups for ice cream. C. A. Reineke, Jr. 564,366, Sept. 23; Serial No. 608,177, published July 1, 1952.
Eggs, Fresh. R. G. Marriott. 564,459, Sept. 23; Serial No. 620,517, published June 17, 1952.
Eggs, Frozen, and dried eggs. Pioneer Hi-Bred Corn Company. 564,304, Sept. 23; Serial No. 587,910, published June 17, 1952.
Feed, Poultry. Pillsbury Mills, Inc. 564,509, Sept. 23; Serial No. 595,151.
Feeds, Poultry. Maritime Milling Co., Inc. 297,592, renewed Sept. 20, 1952. O. G. Sept. 23.
Flour, Wheat. The Colorado Milling & Elevator Co. 564,259, Sept. 23; Serial No. 557,503, published June 17, 1952.
Flour, Wheat. The Security Milling Co., Inc. 564,508, Sept. 23; Serial No. 591,804.
Food flavoring preparation, Liquid. E. M. Stockton. 564,535, Sept. 23; Serial No. 623,088.
Grapes, Fresh, fresh deciduous fruits, fresh vegetables. Lambert Marketing Co. 298,341, renewed Oct. 25, 1952. O. G. Sept. 23.
Ice cream. Central Ice Cream Company. 564,338, Sept. 23; Serial No. 602,800, published July 1, 1952.
Macaroons. Perry H. Chipurnoi, Inc. 510,881, June 14, 1949. Canceled July 29, 1952. O. G. Sept. 23.
Mixture of egg material and other substances. Standard Brands Incorporated. 299,001–2, renewed Nov. 15, 1952. O. G. Sept. 23.
Olive oil. Lekas & Drivas, Inc. 564,353, Sept. 23; Serial No. 606,713, published July 1, 1952.
Oranges, Fresh, fresh orange juice, canned single strength orange juice, etc. R. M. Townsend. 564,449, Sept. 23; Serial No. 620,631, published July 8, 1952.

Oysters, Fresh. E. B. Blount Sons. 293,109, renewed Apr. 12, 1952. O. G. Sept. 23.
Popcorn, Shelled. The Cracker Jack Co. 297,903, renewed Oct. 4, 1952. O. G. Sept. 23.
Rice. Conrad Rice Milling and Planting Company. 564,372, Sept. 23; Serial No. 609,167, published June 10, 1952.
Sandwiches, Ground meat. D. O. Leiby. 564,392, Sept. 23; Serial No. 611,793, published June 10, 1952.
Sardines. Seacoast Canning Co. 88,122, re-renewed Aug. 27, 1952. O. G. Sept. 23.
Shrimp, Frozen fresh. Wilbur-Ellis Company. 564,395, Sept. 23; Serial No. 612,048, published June 24, 1952.
Sugar syrup, Condensed burnt. Knotty Pine Food Products. 564,477, Sept. 23; Serial No. 623,310, published June 24, 1952.
Table sauce. F. S. Leggett. 294,091, May 17, 1932. Canceled July 29, 1952. O. G. Sept. 23.
Vegetable oil. S. J. Palermo. 564,504, Sept. 23; Serial No. 579,997.
Wheat-flour. The Harter Milling Co. 88,874, re-renewed Oct. 29, 1952. O. G. Sept. 23.
Yeast autolysate for flavoring. Vico Products Company. 564,479, Sept. 23; Serial No. 623,521, published July 1, 1952.

CLASS 49

Anisette. Bosch & Co. 86,271, re-renewed Apr. 30, 1952. O. G. Sept. 23.
Rum. Ostrucon Distilled Products Co., Inc. 334,166, Apr. 21, 1936. Republished Sept. 23.
Whiskey. Bernheim Distilling Company. 410,806, Dec. 19, 1944. Republished Sept. 23.
Whiskey. Jas. E. Pepper & Company. 310,909, Mar. 13, 1934. Republished Sept. 23.
Whiskey. Schenley Products Company. 320,176, Dec. 18, 1934. Republished Sept. 23.

CLASS 50

Adhesive coated wood blocks. Wells Manufacturing Company. 564,411, Sept. 23; Serial No. 613,750, published July 1, 1952.
Articles for protecting and holding clothing. Phoenix Products Company. 564,267, Sept. 23; Serial No. 571,831, published Apr. 18, 1950. (Consolidated certificate Classes 2, 37, and 50.)
Marking plates, Adhesive backed. Metalcraft, Inc. 564,384, Sept. 23; Serial No. 610,753, published June 24, 1952.
Non-refillable and tamper-proof closures for containers. Lox-On, Inc. 564,516, Sept. 23; Serial No. 605,165.
Sponge rubber carpet cushions. The General Tire & Rubber Company. 564,455, Sept. 23; Serial No. 619,936, published June 24, 1952.
Unsensitized photographic film. E. I. du Pont de Nemours and Company. 564,436, Sept. 23; Serial No. 618,232, published July 1, 1952.

CLASS 51

Cosmetic preparations. Essential Cosmetics Inc. 541,226, Apr. 17, 1951. Canceled Aug. 15, 1952. O. G. Sept. 23.
Hair dye. R. Hudnut. 564,329, Sept. 23; Serial No. 600,487, published May 27, 1952.
Hair tonic. Bristol-Myers Company. 294,839, renewed June 7, 1952. O. G. Sept. 23.
Nose drops, vaginal jelly, greaseless ointments and lotions, etc. Vanol Chemical Company. 444,719, Sept. 23; Serial No. 524,029, published May 20, 1952.
Perfumes and toilet water. Giviemme, S. A. 564,501, Sept. 23; Serial No. 566,112.
Perfumes, cologne, lotion, etc. Parfums Charbert Inc. 564,385, Sept. 23; Serial No. 610,797, published May 27, 1952.
Preparation for dressing the hair. B. Ansehl. 295,608, renewed July 5, 1952. O. G. Sept. 23.
Tooth paste. The Bon Ami Company. 297,182, renewed Sept. 6, 1952. O. G. Sept. 23.

CLASS 52

Antifreeze compound, Automobile radiator, automobile radiator cleaning compound, etc. Atlas Supply Company. 296,241, Aug. 2, 1932. Cancelled as improperly issued. O. G. Sept. 23.
Cleaner, cleanser and detergent, Sudsing. The Procter & Gamble Company. 564,416, Sept. 23; Serial No. 614,513, published July 8, 1952.
Cleaner for watch and clock mechanisms. D. & H. Mfg. Co. 564,275, Sept. 23; Serial No. 578,492, published June 17, 1952.
Cleanser, Toilet-bowl. West Disinfecting Company. 564,406, Sept. 23; Serial No. 613,034, published July 8, 1952.
Compound comprising detergent and insecticide ingredients. G & P Co. 564,418, Sept. 23; Serial No. 614,621, published July 1, 1952.
Detergent compound. Hercules Powder Company. 295,403, June 28, 1932. Republished Sept. 23.
Detergent preparation. Mark Allen Co. 564,297, Sept. 23; Serial No. 586,263, published June 17, 1952.
Detergent, Synthetic. Russell Supply Company. 564,457, Sept. 23; Serial No. 620,364, published June 17, 1952.
Detergents. American Alcolac Corporation. 564,323, Sept. 23; Serial No. 596,822, published July 8, 1952.
Liquid solvents. Currier Company. 564,309, Sept. 23; Serial No. 591,151, published July 8, 1952.
Oil, grease and moisture absorbent. E. S. Dickerson, Jr. 564,265, Sept. 23; Serial No. 567,190, published May 17, 1949.
Shampoo. L. R. Akers. 564,537, Sept. 23; Serial No. 623,940.
Soap. The Procter & Gamble Company. 564,311, Sept. 23; Serial No. 591,654, published June 24, 1952.
Soap, Toilet. Colgate-Palmolive-Peet Company. 564,401, Sept. 23; Serial No. 612,849, published July 8, 1952.
Soaps and soap powders. Colgate & Co. 88,666, renewed Oct. 15, 1952. O. G. Sept. 23.
Washing and cleaning compound. Wyandotte Chemicals Corporation. 564,301, Sept. 23; Serial No. 587,416, published July 8, 1952.

CLASS 100

Collecting through research, study, investigation, etc., information in the field of scientific management, etc. The Society for the Advancement of Management, Inc. 564,494, Sept. 23; Serial No. 597,846, published July 1, 1952.
Organizing of chapters and regional groups. Sigma Phi Epsilon Fraternity. 564,497, Sept. 23; Serial No. 598,046, published July 1, 1952.
Stimulating and maintaining interest in public affairs, etc. Sertoma International. 564,498, Sept. 23; Serial No. 603,701, published July 1, 1952.

CLASS 102

Arranging for extension of credit to the customers of subscribing hotels and restaurants, etc. National Credit Card, Inc. 564,495–6, Sept. 23; Serial Nos. 618,937–8, published July 1, 1952.
Life insurance brokerage services. W. R. Carrick. 564,493, Sept. 23; Serial No. 593,648, published July 1, 1952.

LIST OF DESIGN PATENTEES

Adams, Glenn T., Chicago, Ill. Helmet. 167,789, Sept. 23.
Adams, Glenn T., Chicago, Ill. Helmet. 167,790, Sept. 23.
Adams, Glenn T., Chicago, Ill. Helmet. 167,791, Sept. 23.
Aladdin Industries, Incorporated, assignee: *See*—
Schwarz, Eugene.
American Greetings Corporation, assignee: *See*—
Zel, Joe, and Latimer.
Baldwin Company, The, assignee: *See*—
Millington, William, and Day.
Brown, Frank P., Midlothian, and M. G. Marshall, Homewood, assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car numbering sign. 167,792, Sept. 23.
Brunner, Samuel W., Flushing, N. Y. Plastic flowerpot cover or the like. 167,793, Sept. 23.
Budlane, Stanley J., Palatine, and R. Dusek, Cicero, assignors to Dulane, Inc., River Grove, Ill. Coffee maker. 167,794, Sept. 23.
Campbell, A. S., Company, assignee: *See*—
McLeod, Charles A.
Chernow, Michael, New York, N. Y. Link chain for a necklace or similar article. 167,795, Sept. 23.
Chernow, Michael, New York, N. Y. Link chain for a necklace or similar article. 167,796, Sept. 23.
Chrysler Corporation, assignee: *See*—
Mawhinney, Melvin C.
Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.
Day, Wilbur M.: *See*—
Millington, William, and Day.
Decorative Textiles, Inc., assignee: *See*—
Scher, Daniel.
Dulane, Inc., assignee: *See*—
Budlane, Stanley J., and Dusek.
Dusek, Robert: *See*—
Budlane, Stanley J., and Dusek.
Gardner Board and Carton Co., The, assignee: *See*—
Ringler, William A.
Groboski, John P., Sheffield, Pa., and J. G. Groboski, Chicago, Ill. Automobile door visor. 167,797, Sept. 23.
Groboski, Joseph G.: *See*—
Groboski, John P. and J. G.
Happe, Melvin J.: *See*—
Hill, George B., and Happe.
Hill, George B., Celina, Ohio, and M. J. Happe, assignors to New Holland Machine Division of The Sperry Corporation, New Holland, Pa. Trail mower. 167,798, Sept. 23.
Latimer, Robert W.: *See*—
Zel, Joe, and Latimer.
Lyon, George A., Detroit, Mich. Wheel cover or similar article. 167,799, Sept. 23.
Marshall, Merrill G.: *See*—
Brown, Frank P., and Marshall.
Mawhinney, Melvin C., Southfield Township, Oakland County, assignor to Chrysler Corporation, Highland Park, Mich. Automobile grille panel. 167,800, Sept. 23.
McLeod, Charles A., Birmingham, Mich., assignor to A. S. Campbell Company, Boston, Mass. Wheel trim. 167,801, Sept. 23.
McLeod, Charles A., Birmingham, Mich., assignor to A. S. Campbell Company, Boston, Mass. Wheel trim. 167,802, Sept. 23.
Miller, Royal A., Metamora, Ohio. Fishhook shield. 167,803, Sept. 23.
Millington, William, Grand Rapids, Mich., and W. M. Day, Kenwood, assignors to The Baldwin Company, Cincinnati, Ohio. Piano case. 167,804, Sept. 23.
Mueller, Walter, Clifton, N. J., assignor of one-half to R. E. Schletter, Philadelphia, Pa. Lady's stocking. 167,805, Sept. 23.
Mueller, Walter, Clifton, N. J., assignor of one-half to R. E. Schletter, Philadelphia, Pa. Lady's stocking. 167,806, Sept. 23.
New Holland Machine Division of The Sperry Corporation, assignee: *See*—
Hill, George B., and Happe.
Portable Light Company, Inc., The, assignee: *See*—
Steeber, Albert F.
Porter, Alfred T., Portsmouth, Va. Pull toy. 167,807, Sept. 23.
Pullman-Standard Car Manufacturing Company, assignee: *See*—
Brown, Frank P., and Marshall.
Ringler, William A., Wayne, Pa., assignor to The Gardner Board and Carton Co., Middletown, Ohio. Collapsible bottle carrier. 167,808, Sept. 23.
Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Napkin holder or similar article. 167,809, Sept. 23.
Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Napkin holder or similar article. 167,810, Sept. 23.
Schaefer, Anthony H., St. Louis, Mo. Bench. 167,811, Sept. 23.
Scher, Daniel, Brooklyn, N. Y., assignor to Decorative Textiles, Inc., Pawtucket, R. I. Textile fabric. 167,812, Sept. 23.
Schletter, Oscar E., Lansdale, Pa. Lady's stocking. 167,813, Sept. 23.
Schletter, Richard E., assignee: *See*—
Mueller, Walter.
Schwarz, Eugene, Alexandria, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill. Base for table lamps. 167,814, Sept. 23.
Schwarz, Eugene, Alexandria, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill. Base for table lamps. 167,815, Sept. 23.
Steeber, Albert F., Milburn, N. J., assignor to The Portable Light Company, Inc., New York, N. Y. Lamp. 167,816, Sept. 23.
Toledo Scale Company, assignee: *See*—
Weckerly, Mark A.
Troy, Ellen, New York, N. Y. Lady's ornamented stocking. 167,817, Sept. 23.
Weckerly, Mark A., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. 167,818, Sept. 23.
Yanks, Anna and M., Philadelphia, Pa. Electric bulb. 167,819, Sept. 23.
Yanks, Matthew: *See*—
Yanks, Anna and M.
Zel, Joe, Cleveland Heights, and R. W. Latimer, Bay Village, Ohio, ass'gnors to American Greetings Corporation. Merchandise display rack. 167,820, Sept. 23.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A B Svenska Flaktfabriken, assignee: *See*—
Johansson, Erik, Bergvall, and Alfredsson.

Aboltin, Bernard, assignor to Mansfield Industries, Inc., Chicago, Ill. Film splicer. 2,611,723, Sept. 23.

Ackerman, Howard B., Rockville Centre, N. Y. Rotary electromagnetic positioning device. 2,611,799, Sept. 23.

Ackermann, Joseph A., Cleveland Heights, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Pump and motor hydraulic system and electrical control circuits therefor. 2,611,246, Sept. 23.

Actiengesellschaft Joh. Jacob Rieter & Cie, assignee: *See*—
Hoffmann, Walter.

Acton, Russel D., Chicago, Ill. Implement control for tractor-connected implements. 2,611,305, Sept. 23.

Adams, Charles C., New York, assignor to Davis & Geck, Inc., Brooklyn, N. Y. Flexible suture tube package with embedded tear string. 2,611,483, Sept. 23.

Adams, Loyd H., Waverly, Iowa. Road maintenance machine. 2,611,598, Sept. 23.

Adcock, Mack D.: *See*—
Marston, Arthur E., and Adcock.

Adler, Robert, Chicago, Ill., assignor to Zenith Radio Corporation. Electron discharge device. 2,611,879, Sept. 23.

Africano, Alfred, Weehawken, N. J., assignor to the United States of America as represented by the Secretary of War. Rotating nozzle for rockets. 2,611,317, Sept. 23.

Agin, Julius, Bergenfield, N. J., assignor to Patterson O. Stewart, Bronxville, N. Y. Testing device for voltage and current regulators. 2,611,806, Sept. 23.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Hendel, Carl E.
Owens, Harry S., and Schultz.
Thompson, Chester R.

Ahlén, Karl G., Stockholm, and T. A Ödman, Saltsjo-Duvnas, Sweden, assignors to Svenska Rotor Maskiner Aktiebolag. Effecting heat exchange between a rotating solid body and a gaseous medium, particularly for cooling fluid transmissions with rotating casings. 2,611,248, Sept. 23.

Aimes, Francis M., assignor to Imperial Pen & Pencil Co., Inc., Nassau, N. Y. Retractable writing implement. 2,611,343, Sept. 23.

Aines, Andrew A., U. S. Army. Wheel-mounted drum filling assembly. 2,611,523, Sept. 23.

Air Associates, Incorporated, assignee: *See*—
Gravenhorst, Everett G.

Air Rectifiers, Inc., assignee: *See*—
Cowan, Nathan.

Akona Chemical Corporation, assignee: *See*—
Glick, Alvin G.

Aktiebolaget Atvidaberg Facit, assignee: *See*—
Toorell, Sture, and Grip.

Albee, Arthur C., Hollywood, Calif., assignor to Radio Corporation of America. Film reel drive. 2,611,284, Sept. 23.

Alden, Milton, Wellesley, Mass. Recorder bar suspension for facsimile recorders. 2,611,677, Sept. 23.

Alexander, Peter P., assignor to Metal Hydrides Incorporated, Beverly, Mass. Ammunition. 2,611,316, Sept. 23.

Alexath, Georges, Lausanne, Switzerland. Fish lure. 2,611,208, Sept. 23.

Alford, Andrew, Cambridge, Mass. Slotted winged cylindrical antenna. 2,611,864, Sept. 23.

Alford, Andrew, Cambridge, Mass. Transversely gapped cylindrical antenna. 2,611,865, Sept. 23.

Alford, Andrew, Cambridge, Mass. Cylindrical antenna. 2,611,866, Sept. 23.

Alford, Andrew, Cambridge, Mass. Slotted winged cylindrical antenna. 2,611,867, Sept. 23.

Alford, Andrew, Cambridge, and H. Jasik, Roslindale, Mass.; said Jasik assignor to said Alford. Antenna detuning system. 2,611,871, Sept. 23.

Alfredsson, Uno: *See*—
Johansson, Erik, Bergvall, and Alfredsson.

Allday, Gilbert J., Weybridge, England. Exhaust and induction system for internal-combustion engines. 2,611,353, Sept. 23.

Allen-Bradley Company, assignee: *See*—
Walters, Robert E.

Allen, Charles F. H., and C. V. Wilson, assignors to Eastman Kodak Company, Rochester, N. Y. Preparation of 1,4,5,8-tetraaminoanthraquinone compounds. 2,611,772, Sept. 23.

Allen, James J., and J. A. Hawkes, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of cellulose esters. 2,611,767, Sept. 23.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Altorfer, Hans A.
Beckwith, Sterling, and King.
Kuenmerlein, Edward M., and Newland.
Strehlow, Walter F.
Strehlow, Walter F., and Kamlukin.
Strehlow, Walter F., O'Harrow, and Johansen.

Alloway, Vivian P., Craigmont, Idaho. Straw cutter. 2,611,407, Sept. 23.

Alter Company, assignee: *See*—
Pesses, Marvin.

Altorfer, Hans A., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Combustion turbine burner. 2,611,651, Sept. 23.

Aluminum Air Seal Manufacturing Company, assignee: *See*—
Webster, Clifford L.

Aluminum Company of America, assignee: *See*—
Kipp, Egbert M.

American Airmotive Corporation, assignee: *See*—
Hathaway, Orla N.

American Can Company, assignee: *See*—
Nordquist, Ronald E. J.

American Cyanamid Company, assignee: *See*—
Frederiksen, Erling K., and Nielsen.
Germann, Richard P., Hultquist, and Smith.
Smith, James M., Jr.

American Laundry Machinery Company, The, assignee: *See*—
Huebsch, Monte F.

American Locomotive Company, assignee: *See*—
Fryer, Ross L., Jr.

American Machine and Foundry Company, assignee: *See*—
Hagquist, Gustaf E.
Jensen, Thormod.
Patterson, Morehead.
Schmidt, Gottfried J.

Anderson, David E., Shaker Heights, assignor to Thompson Products, Inc., Cleveland, Ohio. Dual carburetor. 2,611,592, Sept. 23.

Anderson, David E., Shaker Heights, assignor to Thompson Products, Inc., Cleveland, Ohio. Supplementary fluid feed device with automatic tandem metering valves. 2,611,594, Sept. 23.

André, Henri G., Montmorency, France, assignor to Yardney International Corp. Making electric accumulators. 2,611,792, Sept. 23.

Anstalt Renor, assignee: *See*—
Haas, Otto, Schaedler, and Schneider.

Antelman, Leon, Philadelphia, Pa. Convertible reclining chair and cot. 2,611,418, Sept. 23.

Applegate, Lindsay M., Oswego, Oreg., assignor to the United States of America as represented by the Secretary of the Interior. Circuit breaker. 2,611,846, Sept. 23.

Arehart, David D., and R. T. Dittmer, assignors to Palace Corporation, Flint, Mich. Collapsible building. 2,611,454, Sept. 23.

Armour Research Foundation of Illinois, Institute of Technology, assignee: *See*—
Camras, Marvin.

Armstrong Cork Company, assignee: *See*—
Guenther, Martin H.

Arthur, Richard P., Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company. Crossbar switch. 2,611,827, Sept. 23.

Ash, Paul J., Reading, Pa. Door operated spray device. 2,611,647, Sept. 23.

Ashton, Albert A., Houston, Tex., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Selector control system. 2,611,249, Sept. 23.

Ashton, Ernest W., Ottawa, Ontario, Canada, assignor, by mesne assignments, to Stoffel Seals Corporation, Tuckahoe, N. Y. Poultry tag. 2,611,198, Sept. 23.

Ashton, Ernest W., Ottawa, Ontario, Canada, assignor, by mesne assignments, to Stoffel Seals Corporation, Tuckahoe, N. Y. Poultry tag. 2,611,200, Sept. 23.

Ashton, Everett H.: *See*—
Rinne, John, Ashton, Mallard, and Lake.

Ashwood, Norman D., Victoria, British Columbia, Canada. Catapult for launching model airplanes. 2,611,355, Sept. 23.

Askren, Lee T., and R. J. Roman, assignors to Eastman Kodak Company, Rochester, N. Y. Plural pulley mechanism. 2,611,283, Sept. 23.

Atlas Bolt & Screw Company, The, assignee: *See*—
Schellentrager, Eugene W.

Austin Motor Company Limited, The, assignee: *See*—
Lindsay, Frank E.

Automatic Pump & Softener Corporation, assignee: *See*—
Johnson, Oscar W.

Avco Manufacturing Corporation, assignee: *See*—
Briggs, Arthur T.

Aviation Works, National Corporation, assignee: *See*—
Šlechta, Jaroslav.

Bablon, Olive G., New York, N. Y. Combined eyelash brush and comb holder. 2,611,375, Sept. 23.

Backofen, E. Ryan, Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Material handling device. 2,611,497, Sept. 23.

Bader, Gillis E., Bellville, Tex. Retractile antenna mast assembly. 2,611,456, Sept. 23.

Bailey, David R., assignor to California Almond Growers Exchange, Sacramento, Calif. Apparatus for cutting almonds to pieces of miscellaneous sizes. 2,611,405, Sept. 23.

Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J.

Bailey, Robert S., Phoenix, Ariz., and M. Silver, Fairlawn, N. J., assignors to International Standard Electric Corporation, New York, N. Y. Repeater for frequency modulated waves. 2,611,859, Sept. 23.

Bailey, Robert S., assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge device. 2,611,882, Sept. 23.

Bain, George W., Jr.: *See*—
Webster, William M., Jr., and Bain.

Baker, Allister L., Jersey City, assignor to Keuffel & Esser Company, Hoboken, N. J. Drafting machine. 2,611,184, Sept. 23.

Baker, Cohen H., Fort Worth, Tex. Bottle cap opener with crimp engaging teeth. 2,611,286, Sept. 23.

Ballard, Wm. O., assignee: *See*—
Crawford, Howard E.

Balsley, James R., Jr.: *See*—
Rumbaugh, Lynn H., Jensen, and Balsley.

Baltimore Biological Laboratory, assignee: *See*—
Taylor, Harry E.

Baring-Gould, Sabine L.: *See*—
MacCallum, Alan M., and Baring-Gould.

Barnes, Ethel T., Evanston, Ill. Hair curling device. 2,611,377, Sept. 23.

Barrett, Dean E., and C. D. Lowery, assignors to The Huber Manufacturing Company, Marion, Ohio. Mulching and grading apparatus. 2,611,196, Sept. 23.

Barrow, James E., Borehamwood, England. Digital calculating machine. 2,611,536, Sept. 23.

Barry, Arthur J., assignor to Dow Corning Corporation, Midland, Mich. Production of arylhalosilanes. 2,611,775, Sept. 23.

Barth, Robert H.: *See*—
Burrell, Harry, and Barth.

Barth, Robert H., Ridgewood, N. J., assignor to Heyden Chemical Corporation, New York, N. Y. Tackifiers and softeners for synthetic rubbers and compositions containing the same. 2,611,752, Sept. 23.

Bartlett, Jeffrey H., Westfield, H. W. Rudel, Roselle Park, and E. B. Cyphers, Cranford, N. J., assignors to Standard Oil Development Company. Insecticidal compositions containing substituted aliphatic esters of diethyl dithiophosphoric acid. 2,611,728, Sept. 23.

Bartlett, Jeffrey H., Westfield, H. W. Rudel, Roselle Park, and E. B. Cyphers, Cranford, N. J., assignors to Standard Oil Development Company. Insecticidal compositions containing hydrocarbon esters of diethyl dithiophosphoric acid. 2,611,729, Sept. 23.

Bartlett, William W., New York, N. Y. Railroad tie. 2,611,545, Sept. 23.

Basic Products Corporation, assignee: *See*—
Reynard, Chauncey G., and Hart.

Becher, Hubert L., Trenton, assignor to Homasote Company, Incorporated, Fernwood, N. J. Fire resistant sheet material. 2,611,694, Sept. 23.

Beckwith, Sterling, Milwaukee, and W. F. King, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamoelectric machine with resiliently supported stator. 2,611,797, Sept. 23.

Beduhn, Daniel E.: *See*—
Winborn, Byron R., Jr., and Beduhn.

Behne, Ernest O.: *See*—
Patterson, Earl M., and Behne.

Beldner, Edward, Brooklyn, N. Y. Dispensing cover. 2,611,516, Sept. 23.

Bell, Francis R., assignor to The Rover Company Limited, Solihull, England. Internal-combustion engine with regenerator. 2,611,242, Sept. 23.

Bell, Frank V., Stoney Creek, Ontario, Canada. Clinometer. 2,611,188, Sept. 23.

Bell, John, assignor to Muirhead & Company Limited, Beckenham, England. Variometer and induction regulator. 2,611,891, Sept. 23.

Bellinger, Burdette W., Tampa, Fla., assignor to Tennessee Corporation, New York, N. Y. Concentrating phosphoric acid. 2,611,681, Sept. 23.

Bellis, Edward W., Portland, Oreg. Display apparatus. 2,611,201, Sept. 23.

Bello, Pablo D., Habana, Cuba. Level. 2,611,189, Sept. 23.

Bendix Aviation Corporation, assignee: *See*—
Brandau, William E.
MacCallum, Alan M., and Baring-Gould.
Molinare, Nicholas.
Noxon, Paul A., and Reichel.

Benson, Oden B., Woodmere, N. Y. Flushing device for outboard motors. 2,611,631, Sept. 23.

Benson, Victor A., Santa Clara, Calif. Combined bracket and latch for oven doors. 2,611,360, Sept. 23.

Bergsten, Milford A., East Moline, and W. E. Cade, assignors to Deere & Company, Moline, Ill. Power control for agricultural machines. 2,611,279, Sept. 23.

Bergvall, Bertil: *See*—
Johansson, Erik, Bergvall, and Alfredsson.

Berks Electronic Service, Inc., assignee: *See*—
Landis, Harold O.

Bermann, Louis D., Ossining, N. Y. Wall box. 2,611,501, Sept. 23.

Bernard, Edward, Co., assignee: *See*—
Yellin, Morrian.

Berner, Robert G.: *See*—
Bolinger, Edgar D., and Berner.

Bernhart, Finn W., Holt, and J. B. Hassinen, Mason, Mich., assignors to Wyeth Incorporated, Philadelphia, Pa. Fat composition for infants' food. 2,611,706, Sept. 23.

Bernzott, Hugo: *See*—
Du Mais, Leo J., and Bernzott.

Berriman, John A., Corringham, and J. C. Selbie, Upminster, England, assignors to Shell Development Company, San Francisco, Calif. Distillation of furfural. 2,611,740, Sept. 23.

Berry, George E., and G. C. Ridings, Washington, D. C. Combination lock. 2,611,259, Sept. 23.

Bevington, John E., Mechanicsville, assignor of one-half to J. W. Leoblein, Cleveland, Ohio. Window stop. 2,611,634, Sept. 23.

Biggert, Don R., and H. P. Goedicke, Marion, Ohio. Combined ladder and extensible loading ramp for platforms. 2,611,466, Sept. 23.

Biggs, George A., assignor to The James Leffel & Co., Springfield, Ohio. Sectionalized case for turbines and the like. 2,611,578, Sept. 23.

Birum, Herbert L., Jr.: *See*—
Hammitt, Andrew B., and Birum.

Bivens, Maurice E., Schenectady, N. Y., assignor to General Electric Company. Electric valve control circuits. 2,611,863, Sept. 23.

Black & Decker Manufacturing Company, The, assignee: *See*—
Emge, Herbert M.

Bliss, William R., Washington, D. C. Coupling device. 2,611,822, Sept. 23.

Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Modification of drying oils. 2,611,788, Sept. 23.

Blum, Jay H., assignor to The Fibre Forming Corporation, Olean, N. Y. Chair back. 2,611,423, Sept. 23.

Boice-Crane Company, assignee: *See*—
Boice, William B.

Boice, William B., assignor to Boice-Crane Company, Toledo, Ohio. Guard mounting for jointer cutters. 2,611,402, Sept. 23.

Boling, Cecil, assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y. Heat exchanger. 2,611,585, Sept. 23.

Boling, Cecil, assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y. Heat exchanger. 2,611,587, Sept. 23.

Bolinger, Edgar D., and R. G. Berner, Stamford, assignors to Deering Milliken Research Trust, Greenwich, Conn. Apparatus for treating yarn. 2,611,172, Sept. 23.

Borders, Alvin M., White Bear Lake, Minn., assignor to Wingfoot Corporation, Akron, Ohio. Base coated with a high styrene-butadiene copolymer. 2,611,719, Sept. 23.

Bortnick, Newman M., assignor to Rohm & Haas Company, Philadelphia, Pa. Preparation of tertiary-alkyl isocyanates. 2,611,782, Sept. 23.

Bostwick, Burdette E., assignee: *See*—
Whipple, Jack V. H., and Topa.

Bourne, William G., Acton, London, assignor to Rotax Limited, London, England. Combined magnetic and manual switch. 2,611,843, Sept. 23.

Bourne, William G., Acton, London, assignor to Rotax Limited, London, England. Electromagnetically operable switch. 2,611,844, Sept. 23.

Boyce, Leonard D., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Two-fuel carburetor. 2,611,593, Sept. 23.

Boyce, Leonard D., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Engine switch with detent. 2,611,841, Sept. 23.

Brandau, William E., Westwood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Thermocouple means. 2,611,791, Sept. 23.

Brandstad, Malte, Torshalla, Sweden. Sheet metal guide and support for vise jaws. 2,611,287, Sept. 23.

Braskamp, Willem H., Voorburg, Netherlands. Window or wall ventilator. 2,611,608, Sept. 23.

Braun, Philip N., Syracuse, N. Y. Printed tag receiver for tag printing machines. 2,611,314, Sept. 23.

Breakiron, Harold M., Washington, D. C. Lamp stand and tripod. 2,611,571, Sept. 23.

Brees, Clarence W., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Adhering fabric to rubber. 2,611,721, Sept. 23.

Breitenbucher, Harold: *See*—
Counts, Everett T., and Breitenbucher.

Bridges, John H., Atlanta, Ga., assignor to National Inventions Corporation. Fluorescent tube lighting system and apparatus. 2,611,885, Sept. 23.

Briggs, Arthur T., South Williamsport, Pa., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Fuel and combustion supporting medium control for turbine engine starters using excess fuel for cooling. 2,611,239, Sept. 23.

Bright, Cooper B., United States Navy. Linkage means. 2,611,282, Sept. 23.

Brinkhurst, William A., Vancouver, British Columbia, Canada. Screw feed mechanism. 2,611,280, Sept. 23.

Brittin, Edward B., Washington, D. C. Self-sustaining scaffold. 2,611,657, Sept. 23.

Broersma, J. Charles, Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Roll gripping and upending truck. 2,611,498, Sept. 23.

Bromley, William H., Jr., West Springfield, assignor to Shawinigan Resins Corporation, Springfield, Mass. Preparation of stable polyvinyl butyral dispersions. 2,611,755, Sept. 23.

Brooker, Leslie G. S.: *See*—
Keyes, Grafton H., and Brooker.

Brophy, John J., Salem, and C. G. Newton, Jr., Newburyport, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Stiffening uppers of shoes. 2,611,195, Sept. 23.

Brown, Irving L., New York, N. Y. Half slip. 2,611,133, Sept. 23.

Brown, John W., South Euclid, assignor to The John P. Cochran Company, Cleveland, Ohio. Guard for groove-top containers. 2,611,508, Sept. 23.

Brown, Robert H., Pulaski, Tenn. Rotary turbine-type hydraulic coupling. 2,611,247, Sept. 23.

Brunner, August H., Jr., and R. H. Zappert, Binghampton, assignors to General Aniline & Film Corporation, New York, N. Y. Regeneration of exhausted silver bleach solutions by means of N-bromo compounds. 2,611,700, Sept. 23.

Buckley, John L., Tenafly, N. J., assignor to United States Rubber Company, New York, N. Y. Wiper for drill pipes having a lubricant cavity. 2,611,146, Sept. 23.

Bull, Gifford: *See*—
Harcum, William M., and Bull.

Bullard Company, The, assignee: *See*—
Bullard, Edward P., III.

Bullard, Edward P., III, Fairfield, Conn., assignor to The Bullard Company. Turning work. 2,611,290, Sept. 23.

Bunch, Robert L.: *See*—
Butler, George B., and Bunch.

Burdick, Harry J. McB., Anaheim, Calif. Projectable nozzle lown sprinkler. 2,611,644, Sept. 23.

Burgess Battery Company, assignee: *See*—
Peterson, Jack L.
Simpson, Arthur W.

Burrell, Harry, Milburn, and R. H. Barth, Ridgewood, N. J., assignors to Heyden Chemical Corporation, New York, N. Y. Producing synthetic rubbers containing tackifiers and softeners and product thereof. 2,611,753, Sept. 23.

Burton, Robert E., Willits, Calif. Hydraulic log-barker having kerf-cutting and bark-removing jets. 2,611,401, Sept. 23.

Busee, Wilbur E., and C. M. Orr, Chicago, Ill., assignors to Chicago Bridge & Iron Company. Hanger for floating roofs. 2,611,504, Sept. 23.

Butler, George B., and R. L. Bunch, Gainesville, Fla., assignors to Board of Commissioners of State Institutions of the State of Florida. Unsaturated quaternary ammonium halides of certain saturated heterocyclics and preparation. 2,611,768, Sept. 23.

Butler, Joseph F., Pittsburgh, Pa. Cutting apparatus for wallboards and the like. 2,611,179, Sept. 23.

Byrnes, William B., Dalton, Mass. Candle. 2,611,254, Sept. 23.

C. A. V. Limited, assignee: *See*—
Thorpe, Ernest H. C.

Cade, William E: *See*—
Bergsten, Milford A., and Cade.

California Almond Growers Exchange, assignee: *See*—
Bailey, David R.

Calmels, Louis, Paris, France, assignor to Shell Development Company, San Francisco, Calif. Automatic valve. 2,611,389, Sept. 23.

Cambridge Industries Company, assignee: *See*—
Pöckel, Irving.

Cambron, John R., and D. C. Rockola, assignors to Rock-Ola Manufacturing Corporation, Chicago, Ill. Phonograph. 2,611,619, Sept. 23.

Campbell, Lyman L.: *See*—
Hodson, George F., and Campbell.

Camras, Marvin, assignor to Armour Research Foundation of Illinois, Institute of Technology, Chicago, Ill. Tape and disk recording and reproducing device. 2,611,618, Sept. 23.

Candor, Robert R., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Clothes-washing machine. 2,611,256, Sept. 23.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for transferring an emulsion layer from a perforated film strip. 2,611,686, Sept. 23.

Carlin, Herbert J., East Orange, N. J., assignor to Polytechnic Institute of Brooklyn, Brooklyn, N. Y. Power measuring bridge. 2,611,795, Sept. 23.

Carr, Richard H., Chicago, and K. A. Covell, Winnetka, assignors to The Pure Oil Company, Chicago, Ill. Apparatus for injecting fluids into well bores. 2,611,436, Sept. 23.

Carter Carburetor Corporation, assignee: *See*—
Boyce, Leonard D.

Carter, Mary H., executrix: *See*—
Carter, Raymond S., and Dorf.

Carter, Raymond S., deceased; by M. H. Carter, executrix, Cuyahoga Falls, Ohio, and M. L. Dorf, Lincoln, Nebr., assignors to Wingfoot Corporation, Akron, Ohio. Apparatus for making transmission belts. 2,611,151, Sept. 23.

Casabona, Anthony, Hawthorne, and G. Stavis, Ossining, assignors to International Standard Electric Corporation, New York, N. Y. Landing information receiving system. 2,611,892, Sept. 23.

Casco Products Corporation, assignee: *See*—
Wulschpard, Lucien C.

Caterpillar Tractor Co., assignee: *See*—
Paul, Carl H., and Vogelaar.

Cates, Lillian D., Los Angeles, Calif. Cord support for hearing aids. 2,611,831, Sept. 23.

Celanese Corporation of America, assignee: *See*—
Allen, James J., and Hawkes.
Kinsella, Edward.

Cerf, Robert C., Jr., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif. Latch mechanism. 2,611,635, Sept. 23.

Cerness, Joseph F.: *See*—
Schaefer, Ralph A., Cerness, and Morrison.

Chain Belt Company, assignee: *See*—
Longenecker, Charles I.

Champion Dish Washing Machine Company, assignee: *See*—
Davis, Patrick H.

Champion Paper and Fibre Company, The, assignee: *See*—
Illner, Paul R.

Chandler, Jasper S., assignor to Eastman Kodak Company, Rochester, N. Y. Claw pulldown mechanism. 2,611,292, Sept. 23.

Charlton, Ralph W.: *See*—
Palmer, Leon B., and Charlton.

Chevrier, Eugene M., Montrouge, France. Pressing blanks of molded pulp. 2,611,154, Sept. 23.

Chicago Bridge & Iron Company, assignee: *See*—
Busse, Wilbur E., and Orr.
Wiesmiller, Ivan L.

Chicago Coin Machine Company, assignee: *See*—
Koci, Jerry C.

Chicago Electric Manufacturing Company, assignee: *See*—
Gough, James J.

Chrysler Corporation, assignee: *See*—
Reynolds, Donald F.

Church, Walter L., Houston, Tex. Side wall coring tool. 2,611,582, Sept. 23.

Ciraolo, Samuel, Modesto, Calif. Uncaser device. 2,611,494, Sept. 23.

Clark, Charles A., Springfield, Mo. Artificial bait. 2,611,210, Sept. 23.

Clark Equipment Company, assignee: *See*—
Backofen, E. Ryan.
Broersma, J. Charles.
Lapsley, Robert.
Vanderberg, Glen C.

Clarke, Albert E.: *See*—
Clarke, John S., A. E., and Coupe.

Clarke, John S., Blacko, near Nelson, A. E. Clarke, Brierfield, Burnley, and N. P. Coupe, Burnley, assignors to Joseph Lucas Limited, Birmingham, England. Liquid fuel vaporiser and burner. 2,611,244, Sept. 23.

Clavier, André G., New York, N. Y., assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Directive antenna system. 2,611,870, Sept. 23.

Clayton, Harold H.: *See*—
Lybrook, Malcolm T., and Clayton.

Cleveland Graphite Bronze Company, The, assignee: *See*—
Schaefer, Ralph A., Cerness, and Morrison.

Cluett, Peabody & Co. Inc., assignee: *See*—
Gannon, John J., and Powell.

Cochran, John P., Company, The, assignee: *See*—
Brown, John W.

Coleman, John H., Princeton, N. J., assignor to Radio Corporation of America. Particle source. 2,611,878, Sept. 23.

Coleman, Willits E., Norristown, and J. P. H. Leavitt, Wayne, Pa., assignors to Container Corporation of America, Chicago, Ill. Paperboard pallet. 2,611,569, Sept. 23.

Collins, Milford E., Studio City, Calif., assignor to Radio Corporation of America. Portable sound film recorder. 2,611,551, Sept. 23.

Collins Radio Company, assignee: *See*—
McCoy, David O.

Collins, Samuel C., Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Heat exchanger. 2,611,586, Sept. 23.

Communication Engineering Pty. Limited, assignee: *See*—
Law, Peter L.

Conangla, Amado, Sharon Hill, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breaker control. 2,611,796, Sept. 23.

Coney, Jacob W., Norwich, Conn. Lunch box. 2,611,476, Sept. 23.

Congoleum-Nairn Inc., assignee: *See*—
Palmer, Leon B., and Charlton.

Conkle, Gordon A., East Cleveland, Ohio, assignor to General Electric Company. Two-lamp wrapper. 2,611,531, Sept. 23.

Consolidated Electric Lamp Company, assignee: *See*—
Snow, Howard C., Kelley, and Sayward.

Consolidated Engineering Corporation, assignee: *See*—
Washburn, Harold W.

Consolidated Vultee Aircraft Corporation, assignee: *See*—
May, La Verne E.

Container Corporation of America, assignee: *See*—
Coleman, Willits E., and Leavitt.
Hackman, Frank W., and Poole.

Coons, Edward A., Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y. Removing metals from crude petroleum oils. 2,611,735, Sept. 23.

Copenhagen, Jules, Cleveland, Ohio. Breast supporter and former. 2,611,129, Sept. 23.

Cornwall Mills Limited, assignee: *See*—
Varcoe, Maurice.

Costello, Bernard L., Riverside, N. J. Oleaginous corrosion preventive composition. 2,611,711, Sept. 23.

Cote, George H., Bridgeport, Conn. Rotatable stop. 2,611,174, Sept. 23.

Coulter, George W., assignor to Mann, Smith & Coulter, Clarksville, Tenn. Fish ax. 2,611,181, Sept. 23.

Coulter, Guy H., Detroit, Mich., assignor, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio. Combined vehicle headlighting and turn illuminating system. 2,611,857, Sept. 23.

Counts, Everett T., Stockton, and H. Breitenbucher, Oakland, Calif. Burglar alarm. 2,611,334, Sept. 23.

Coupe, Noel P.: *See*—
Clarke, John S., A. E., and Coupe.

Couquelet, Dieudonné, Liege, Belgium. Apparatus for the manufacture of glass articles. 2,611,217, Sept. 23.

Covell, Kenneth A.: *See*—
Carr, Richard H., and Covell.

Cowan, Nathan, Melrose Park, Ill., assignor to Air Rectifiers, Inc. Ventilating wall block. 2,611,310, Sept. 23.

Crain, Joel A., Clovis, Calif. Grape vineyard cultivator. 2,611,309, Sept. 23.

Crawford, Howard E., assignor to Wm. O. Ballard, Toledo, Ohio. Dental engine control. 2,611,836, Sept. 23.

Cravens, Benjamin B., Pawtucket, R. I., assignor, by mesne assignments, to Whitin Machine Works. Device for parallelising fibers in sliver or roving during drafting. 2,611,155, Sept. 23.

Crum, Stephen, and H. T. Sparrow, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Fluid-flow control device and system. 2,611,542, Sept. 23.

Curlee, Harvey P., Raleigh, N. C., assignor to Curlee Machinery Company, Inc. Transfer device. 2,611,467, Sept. 23.

Curlee Machinery Company, Inc., assignee: *See*—
Curlee, Harvey P.

Curlett, John: *See*—
Guzey, William, Jr., Curlett, and McKiney.

Currivan, John F., Dayton, Ohio. Integral carton for protection of fragile articles. 2,611,529, Sept. 23.

Curtiss-Wright Corporation, assignee: *See*—
Donovan, Allen F.

Custer, Willard R., Hagerstown, Md. Jet-propelled aircraft with fuselage lifting channels. 2,611,555, Sept. 23.

Custer, Willard R., Hagerstown, Md. Jet-propelled aircraft with lift channels. 2,611,556, Sept. 23.

Cyphers, Elmer B.: *See*—
Bartlett, Jeffrey H., Rudel, and Cyphers.

Daimler-Benz Aktiengesellschaft, assignee: *See*—
Nallinger, Friedrich K. H.

Daland, Elliot: *See*—
Vanderlip, Edward G., and Daland.

Da-Lite Screen Company, Inc., assignee: *See*—
Du Mais, Leo J., and Bernzott.

Darke, Francis J., Jr., Princeton, N. J., assignor to Radio Corporation of America. Deflection control system. 2,611,816, Sept. 23.

Davies, Robert E., and H. H. Fink, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Resilient mounting. 2,611,574, Sept. 23.

Davis & Geck, Inc., assignee: *See*—
Adams, Charles C.

Davis, John L.: *See*—
Taylor, William J., Worsham, and Davis.

Davis, Kenneth V., San Francisco, Calif. Arithmetic fraction trainer. 2,611,193, Sept. 23.

Davis, Patrick H., assignor to Champion Dish Washing Machine Company, Erie, Pa. Tilting device for tableware used in conjunction with the conveying belt of a dishwashing machine. 2,611,381, Sept. 23.

Dawson, Harrold B.: *See*—
Keller, Ray B., and Dawson.

Dean, Raymond M.: *See*—
Schneider, Nicholas M., and Dean.

De Bairos, Manuel, Caruthers, Calif. Lift type draft unit. 2,611,302, Sept. 23.

De Brey, Heinrich, and F. L. van Weenen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hot gas reciprocating engine comprising a device for varying the amount of working medium in such engines. 2,611,237, Sept. 23.

Deere & Company, assignee: *See*—
Bergsten, Milford A., and Cade.

Deere Manufacturing Co., assignee: *See*—
Jirsa, Emil F.

Deering Milliken Research Trust, assignee: *See*—
Bolinger, Edgar D., and Berner.
May, John W.

Delamere & Williams Company, Limited, assignee: *See*—
Williams, Victor G.

De Nitzio, Anthony, Plainfield, N. J. Antislipping footgear. 2,611,194, Sept. 23.

Denton, Bethel E., Merchantsville, N. J., assignor to Radio Corporation of America. Compensated amplitude discriminatory circuits. 2,611,821, Sept. 23.

Derbyshire, Charles F., Chula Vista, Calif., assignor to The Ryan Aeronautical Co. Bearing construction. 2,611,665, Sept. 23.

De Rosset, Armand J.: *See*—
Geiser, Edward M., and de Rosset.

De Walt Inc., assignee: *See*—
Schutz, Ewald.

Diamond Alkali Company, assignee: *See*—
Underwood, Julius E., and Hirsch.

"Diamond H" Switches Limited, assignee: *See*—
Walton, Gordon H. F.

Diamond, Maurice L., Bronx, N. Y. Cover for toilet seats or lids. 2,611,136, Sept. 23.

Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. Interpolymers of α-acryloxyacrylonitriles. 2,611,765, Sept. 23.

Dickey, Joseph B., and T. E. Stanin, assignors to Eastman Kodak Company, Rochester, N. Y. Alkyl α-fluorocetoxy acrylates, and polymers thereof. 2,611,761, Sept. 23.

Dictograph Products Company, Inc., assignee: *See*—
Hazard, Jarvis M.

Diehl, Elias S., Bedford, Pa. Receding chair for theaters and the like. 2,611,420, Sept. 23.

Diem, Hans, assignor to Edouard Dubied & Cie, Societe Anonyme, Neuchatel, Switzerland. Pattern device for circular knitting machines. 2,611,253, Sept. 23.

Digney, Harold D., Syracuse, N. Y. Pump. 2,611,323, Sept. 23.

Dilts, Lee E., South Euclid, Ohio, assignor to General Electric Company. Apparatus for coating coiled filaments. 2,611,335, Sept. 23.

Dittmer, Ralph T.: *See*—
Arehart, David D., and Dittmer.

Dodson, Glenn R. and L. A., Wichita, Kans. Reinforcing rod connection in block walls. 2,611,262, Sept. 23.

Dodson, Leon A.: *See*—
Dodson, Glenn R. and L. A.

Donovan, Allen F., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Helicopter rotor vibration reducing means. 2,611,557, Sept. 23.

Dorf, Marvin L.: *See*—
Carter, Raymond S., and Dorf.

Dorr Company, The, assignee: *See*—
Knowles, John H.
Scott, Charles H.

Douglass, Porter D., Boulder, Colo. Motor vehicle front wheel lubricating device. 2,611,668, Sept. 23.

Dow Chemical Company, The, assignee: *See*—
Tveter, Elmer C.

Dow Corning Corporation, assignee: *See*—
Barry, Arthur J.
Speier, John L., Jr.
Tyler, Leslie J.

Dow, William T.: *See*—
Rourke, John, and Dow.

Drysdale, Donald: *See*—
Saunders, Erle F., and Drysdale.

Dubied, Edouard, & Cie, Societe Anonyme, assignee: *See*—
Diem, Hans.

Du Mais, Leo J., Chicago, and H. Bernzott, Niles, Ill., assignors to Da-Lite Screen Company, Inc. Portable picture screen. 2,611,427, Sept. 23.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Hulst, George D.
Pohle, Eric.

Dur-O-Lite Pencil Company, assignee: *See*—
Merryman, Carl.

Dyken, Charles P., assignor to Dyken Manufacturing Company, Saukville, Wis. End guide for rug rolling machines. 2,611,553, Sept. 23.

Dyken Manufacturing Company, assignee: *See*—
Dyken, Charles P.
Eastman Kodak Company, assignee: *See*—
Allen, Charles F. H., and Wilson.
Askren, Lee T., and Roman.
Capstaff, John G.
Chandler, Jasper S.
Dickey, Joseph B.
Dickey, Joseph B., and Stanin.
Fitch, Harold L.
Keyes, Grafton H., and Brooker.
Luboshez, Benjamin E.
Pribus, Clarence W.
Schade, Willy.
Van Dyck, Kenneth A., and Koch.
Eaton, Milton, Shawinigan Falls, assignor to The Shawinigan Water and Power Company, Montreal, Quebec, Canada. Electric boiler. 2,611,852, Sept. 23.
Ecklund, Rudolph T., Aitkin, Minn. Bedclothes lifting and supporting device. 2,611,139, Sept. 23.
Ego, George R., assignor to Massey-Harris Co., Ltd., Brantford, Ontario, Canada. Direct mounted two-way plow. 2,611,301, Sept. 23.
Eichert, Edwin S., Jr.: *See*—
Sharpless, Thomas K., and Eichert.
Electric Auto-Lite Company, The, assignee: *See*—
Coulter, Guy H.
Electric & Musical Industries Limited, assignee: *See*—
Percival, William S.
Elliott, B., & Company Limited, assignee: *See*—
Selby, James.
Elliott, Harold F., Oakland, Calif. Program-scheduling apparatus. 2,611,430, Sept. 23.
Ellis, William H., Lovelaceville, Ky. Rotary drill for drilling wells. 2,611,583, Sept. 23.
Ellison, Raymond D.; *See*—
Flygare, Carl G., and Ellison.
Elwell-Parker Electric Company, The, assignee: *See*—
Ackermann, Joseph A.
Emge, Herbert M., assignor to The Black & Decker Manufacturing Company, Towson, Md. Valve seat grinding tool. 2,611,223, Sept. 23.
Emsco Derrick & Equipment Co., assignee: *See*—
Ashton, Albert A.
Engelman, Fred H., Hanover, N. J. Lady's halter. 2,611,130, Sept. 23.
Englander Company, Inc., The, assignee: *See*—
Pillero, James.
English Electric Company Limited, The, assignee: *See*—
Welsh, Robert J.
Ernst, Walter, Dayton, and O. J. Fleck, assignors to The Fremont Flask Company, Fremont, Ohio. Foundry flask. 2,611,162, Sept. 23.
Essex Wire Corporation, assignee: *See*—
Lybrook, Malcolm T., and Clayton.
Etzelt, Heinrich, assignor to Alex-Friedmann, Kommanditgesellschaft, Vienna, Austria. Lubricating pump. 2,611,449, Sept. 23.
Ex-Cell-O Corporation, assignee: *See*—
Spurr, Robert.
Exton, William, Jr., New York, N. Y. Body supporting mechanism for occupants of high-speed conveyances. 2,611,562, Sept. 23.
Famous Foods, Inc., assignee: *See*—
Farmer, Horace E.
Farmer, Horace E., Grosse Pointe, assignor to Famous Foods, Inc., Detroit, Mich. Slicing machine. 2,611,408, Sept. 23.
Fashay, Alexander, Long Island City, assignor of seven and one-half per cent to L. C. Krazinski, New York, N. Y. Explosion-proof gasoline tank. 2,611,512, Sept. 23.
Fashion Curtain Company, The, assignee: *See*—
Van Cleeff, Robert S.
Faulkner, James, Nutley, assignor to Pyrene Manufacturing Company, Newark, N. J. Automatic foam compound proportioning means for fire extinguishers. 2,611,439, Sept. 23.
Federal Security Agency, United States of America as represented by the Administrator, assignee: *See*—
Pecora, Louis J.
Fenner, J. H., & Company Limited, assignee: *See*—
Mitchell, James.
Fibre Forming Corporation, The, assignee: *See*—
Blum, Jay H.
Fine, Albert H., Oak Park, Ill. Hood for tanks and the like. 2,611,509, Sept. 23.
Fink, Herbert H.: *See*—
Davies, Robert E., and Fink.
Fischer, Georg, Aktiengesellschaft, assignee: *See*—
Mynssen, Jacob W.
Fisher, Harry C.: *See*—
Sooy, Brainard E., and Fisher.
Fisher, John V., San Francisco, Calif. Portable display carton. 2,611,527, Sept. 23.
Fitch, Harold L., assignor to Eastman Kodak Company, Rochester, N. Y. Film hanger. 2,611,300, Sept. 23.
Fleck, Otto J.: *See*—
Ernst, Walter, and Fleck.
Flygare, Carl G., and R. D. Ellison, assignors to Norton Company, Worcester, Mass. Grinding wheel truing apparatus. 2,611,356, Sept. 23.
Foote Mineral Company, assignee: *See*—
Scheer, Charles L.
Ford, Walter D., Port Allegany, assignor to Pittsburgh Corning Corporation, Allegheny County, Pa. Preparing a cellulated glass body. 2,611,712, Sept. 23.
Forman, Benjamin, North Stelton, N. J. Fluid spraying device. 2,611,645, Sept. 23.
Forsberg, Harold S., assignee: *See*—
Shore, William E.
Fossa, Joseph, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,611,141, Sept. 23.
Foster, James L., assignor to U. S. Slicing Machine Company, Inc., La Porte, Ind. Self-aligning bearing. 2,611,663, Sept. 23.
Francis, Lynn M., Detroit, Mich. Cargo trailer. 2,611,640, Sept. 23.
Frank, Louis, Fellows, Calif. Nut-holding magazine wrench. 2,611,289, Sept. 23.
Frederiksen, Erling K., Holte, and E. J. Nielsen, Charlottenlund, Denmark, assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. Production of penicillin. 2,611,733, Sept. 23.
Fredin, John E., Los Angeles, Calif. Illuminated support with liquid-holding pan. 2,611,856, Sept. 23.
Fremont Flask Company, The, assignee: *See*—
Ernst, Walter, and Fleck.
French Oil Mill Machinery Company, The, assignee: *See*—
Simon, Forrest C.
Fridinger, Marie, Vienna, Austria. Separable and collapsible article simulating a Christmas tree. 2,611,688, Sept. 23.
Friedmann, Alex., Kommanditgesellschaft, assignee: *See*—
Etzel, Heinrich.
Fryer, Ross L., Jr., Schenectady, assignor to American Locomotive Company, New York, N. Y. Exhaust manifold for internal-combustion engines. 2,611,238, Sept. 23.
Gager, Frank M., Hyattsville, Md., and J. M. Headrick, Washington, D. C. Bridge oscillator. 2,611,873, Sept. 23.
Gannon, John J., Troy, and C. P. Powell, Waterford, assignors to Cluett, Peabody & Co. Inc., Troy, N. Y. Apparatus for spinning, twisting, and winding yarn. 2,611,229, Sept. 23.
Gardner Board and Carton Co., The, assignee: *See*—
Sooy, Brainard E., and Fisher.
Gaylord Container Corporation, assignee: *See*—
George, Walter C.
Geiser, Edward M., Downers Grove, assignor to Universal Oil Products Company, Chicago, Ill. Condensation product of formaldehyde with a copolymer of a vinyl aromatic compound and an aliphatic mono-olefin and making same. 2,611,760, Sept. 23.
Geiser, Edward M., Downers Grove, and A. J. de Rosset, Clarendon Hills, assignors to Universal Oil Products Company, Chicago, Ill. Copolymers of oxidized isobutylene fractions with hydrocarbons. 2,611,764, Sept. 23.
Geisse, John H., Washington, D. C. Cross wind undercarriage. 2,611,564, Sept. 23.
Gelewitz, Edmund W.: *See*—
Olson, Arthur R., and Gelewitz.
General Aniline & Film Corporation, assignee: *See*—
Brunner, August H., Jr., and Zappert.
Gunther, Robert C.
Jones, Giffin D.
Marnon, Donald E.
Schoen, Andre.
Thompson, Thomas R.
Zappert, Robert H.
General Electric Company, assignee: *See*—
Bivens, Maurice E.
Conkle, Gordon A.
Dilts, Lee E.
Hammerly, Herman J., Turton, and Salomone.
Harris, Frank R.
Heath, Paul D.
Kalikow, Irving.
Kirkpatrick, Floyd M.
Martin, John H.
McNairy, Jacob W.
Noel, Edward B.
General Motors Corporation, assignee: *See*—
Candor, Robert R.
Jacobs, James W.
General Precision Laboratory Incorporated, assignee: *See*—
Zaleski, John F.
General Slicing Machine Company, Inc., assignee: *See*—
Preble, Harry, Jr.
George, Everett D., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Method of and apparatus for splicing rubber. 2,611,722, Sept. 23.
George, Walter C., assignor to Gaylord Container Corporation, St. Louis, Mo. Heavy-duty shipping container. 2,611,526, Sept. 23.
George, Walter C., assignor to Gaylord Container Corporation, St. Louis, Mo. Shipping carton with handhole reinforcing and flap securing clip. 2,611,530, Sept. 23.

Germann, Richard P., Plainfield, M. E. Hultquist, Bound Brook, and J. M. Smith, Jr., North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Compositions containing mixtures of 4-aminosalicylic acid and its basic calcium salt. 2,611,732, Sept. 23.
Gevaert Photo-Producten N. V., assignee: *See*—
Jennen, Jacob J.
Robijns, Willem.
Stevens, René A., Van Der Auwera, and Van Goethem.
Geyer, Wallace T., Mount Rainier, Md. Refining molten metal. 2,611,693, Sept. 23.
Gilbert & Barker Manufacturing Company, assignee: *See*—
Riddle, Roy A., and Mesh.
Gillette Company, The, assignee: *See*—
Testi, Nicholas.
Ginzel, Heinz, Dornbirn, Vorarlberg, Austria. Transparentizing to obtain patterned cotton textiles employing resists of pigment containing aqueous oleaginous emulsions. 2,611,678, Sept. 23.
Gladfelter, Willie I., assignor to Pangborn Corporation, Hagerstown, Md. Work blasting equipment. 2,611,219, Sept. 23.
Glick, Alvin G., assignor to Akona Chemical Corporation, Anoka, Minn. Concrete surface sealer. 2,611,713, Sept. 23.
Glitsch Engineering Company, assignee: *See*—
Glitsch, Hans C.
Glitsch, Hans C., assignor to Glitsch Engineering Company, Dallas, Tex. Refining vessel. 2,611,457, Sept. 23.
Glitsch, Hans C., assignor to Glitsch Engineering Company, Dallas, Tex. Tray for use in refining towers. 2,611,596, Sept. 23.
Goble, James W., Burbank, Calif. Bee feeder. 2,611,140, Sept. 23.
Goedicke, Herbert P.: *See*—
Biggert, Don R., and Goedicke.
Goessel, Elmer, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. High voltage circuit breaker. 2,611,838, Sept. 23.
Good, George M., Albany, and B. S. Greensfelder, Oakland, assignors to Shell Development Company, San Francisco, Calif. Production of alpha olefins. 2,611,789, Sept. 23.
Goodrich, B. F., Company, The, assignee: *See*—
Brees, Clarence W.
Davies, Robert E., and Fink.
Hollerith, Charles.
Sarbach, Donald V.
Seifried, Anton G.
Semegen, Stephen T.
Goodyear Tire & Rubber Company, The, assignee: *See*—
Plagge, Homer H.
Gough, James J., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Toaster timer. 2,611,849, Sept. 23.
Gouldi'ng, Albert, Jr., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Apparatus and method for performing sheeting or coating operations on or with plastic material. 2,611,150, Sept. 23.
Graef, Robert L.: *See*—
White, Gifford E., Graef, and La Forge.
Grant, Harry C., Jr., Ridgewood, assignor to Specialties Development Corporation, Belleville, N. J. Valve assembly. 2,611,577, Sept. 23.
Gravenhorst, Everett G., Hasbrouck Heights, assignor to Air Associates, Incorporated, Teterboro, N. J. Thermal pressure equalizer. 2,611,393, Sept. 23.
Gray, Edward J., deceased, New York, N. Y.; I. C. Gray, executrix of said E. J. Gray. Razor blade magazine. 2,611,478, Sept. 23.
Gray, Harold W., and C. I. Nicoson, San Luis Obispo, Calif. Shift delay. 2,611,281, Sept. 23.
Gray, Irene C., executrix: *See*—
Gray, Edward J.
Gray, William T., Jenkintown, assignor to Leeds and Northrup Company, Philadelphia, Pa. Radiation pyrometer with illuminator. 2,611,541, Sept. 23.
Greaves, George V., Elkins Park, Pa. Dyeing apparatus. 2,611,258, Sept. 23.
Greene, Benjamin N., Miami Beach, Fla. Combination shower stool and drain fitting. 2,611,135, Sept. 23.
Greene, Leonard M., Scarsdale, N. Y. Airplane warning system. 2,611,810, Sept. 23.
Greensfelder, Bernard S.: *See*—
Good, George M., and Greensfelder.
Gregory, Eugene J., Seattle, Wash. Magnetic weatherstrip assembly for thresholds. 2,611,158, Sept. 23.
Gresham, Claude D.: *See*—
Hoffmann, Ernest, and Gresham.
Grevich, John J.: *See*—
Humphrey, James M., and Grevich.
Griffin, Dan C.: *See*—
Keene, Edward L., and Griffin.
Griffin, David D., Richmond, Calif. Grapefruit dish. 2,611,252, Sept. 23.
Grip, Erik: *See*—
Toorell, Sture, and Grip.
Griswold, Owen H., Ridgewood, N. J. Filler cap for gasoline tanks. 2,611,503, Sept. 23.
Gross, Bernard, San Diego, Calif., assignor, by mesne assignments, to Rohr Aircraft Corporation. Sealing device. 2,611,285, Sept. 23.
Grower, Abraham, New York, N. Y. Toilet kit. 2,611,380, Sept. 23.
Guenther, Martin H., Atlanta, Ga., assignor to Armstrong Cork Company, Lancaster, Pa. Door assembly. 2,611,159, Sept. 23.
Gulbrandsen, Helge, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Apparatus for applying pressure to shoe bottoms. 2,611,143, Sept. 23.
Gulf Research & Development Company, asignee: *See*—
Ridenour, William P.
Spindt, Roderick S., and Stevens.
Gunby, Olin B., Los Angeles, Calif., assignor to Radio Corporation of America. Magnetic record editing device. 2,611,828, Sept. 23.
Gunther, Robert C., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. N-substituted 4,6-diamino metanilic acids and the corresponding nitro derivatives. 2,611,785, Sept. 23.
Gurvich, Max A., Seattle, Wash. Ski and ski tip attachment. 2,611,624, Sept. 23.
Gustavson, Sterling T., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Gate mechanism for cigar bunch machines. 2,611,371, Sept. 23.
Guth, Julius, Rockville Centre, assignor to Sloan & Company, New York, N. Y. Nonpiercing earring. 2,611,251, Sept. 23.
Gusey, William, Jr., Van Nuys, J. Curlett, North Hollywood, and J. F. McKiney, Bell Gardens, assignors to Miller Manufacturing Co. Inc., Los Angeles, Calif. Vehicle lift. 2,611,579, Sept. 23.
Gwinn, Joseph M., Jr., Dearborn, assignor to Gar Wood Industries, Inc., Wayne, Mich. Arm and tension link hoist for dump bodies. 2,611,642, Sept. 23.
Haas, Otto, Balzers, T. Schaedler, Triesenberg, and L. Schneider, Balzers, assignors to Anstalt Renor, Vaduz, Liechtenstein. Type action system for typewriters. 2,611,469, Sept. 23.
Hackman, Frank W., Maywood, and W. J. Poole, Evanston, assignors to Container Corporation of America, Chicago, Ill. Carrier for chimed cans. 2,611,521, Sept. 23.
Hadley, H. A., Associates, Inc., assignee: *See*—
Hadley, Harlan A.
Hadley, Harlan A., Rutland, Vt., assignor to The Howe Scale Company. Weighing scale. 2,611,606, Sept. 23.
Hadley, Harlan A., assignor to H. A. Hadley Associates, Inc., Burlington, Vt. Pivot and bearing assembly. 2,611,659, Sept. 23.
Hadley, Harlan A., assignor to H. A. Hadley Associates, Inc., Burlington, Vt. Pivot and bearing assembly. 2,611,660, Sept. 23.
Hadley, Harlan A., assignor to H. A. Hadley Associates, Inc., Burlington, Vt. Pivot and bearing assembly. 2,611,661, Sept. 23.
Hadley, Harlan A., assignor to H. A. Hadley Associates, Inc., Burlington, Vt. Pivot and bearing assembly. 2,611,662, Sept. 23.
Haensel, Vladimir, Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Reforming process and catalyst therefor. 2,611,736, Sept. 23.
Haensel, Vladimir, Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Preparation of an alumina-platinum-combined halogen catalyst. 2,611,749, Sept. 23.
Hagopian, Avides J., Springfield, Mass. Reciprocating web feed. 2,611,609, Sept. 23.
Hagquist, Gustaf E., Brooklyn, N. Y., assignor to American Machine and Foundry Company. Bowling alley backstop mechanism. 2,611,614, Sept. 23.
Hallicrafters Co., The, assignee: *See*—
Samuelson, Robert E.
Halterman, John W., Los Angeles, Calif. Shaver-clipper. 2,611,177, Sept. 23.
Hammerly, Herman J., C. B. Turton, and R. A. Salomone, Plainville, Conn., assignors, by mesne assignments, to General Electric Company. Collector or power take-off plug for bus bar duct systems. 2,611,801, Sept. 23.
Hammermill Paper Company, assignee: *See*—
Keller, Ray B., and Dawson.
Hammitt, Andrew B., and H. L. Birum, Jr., Trenton, N. J. Fastening means for roofing and siding material. 2,611,458, Sept. 23.
Hammitt, Andrew B., and H. L. Birum, Jr., Trenton, N. J. Fastening means. 2,611,459, Sept. 23.
Hanes, James W. E.: *See*—
Hanline, Walter R., and Hanes.
Hanesse, Antonin G., Saint-Raphael, France. Device for assemblying structural elements. 2,611,160, Sept. 23.
Hanline, Walter R., and J. W. E. Hanes, Ventura, Calif. Valve for pressure bailers. 2,611,438, Sept. 23.
Hannant, Theodore N., Cedar Grove, assignor to Specialties Development Corporation, Bloomfield, N. J. Variable angle corner pulley. 2,611,581, Sept. 23.
Hans, Edmund E., Detroit, Mich. Heating arrangement for closed automotive bodies. 2,611,544, Sept. 23.
Hara, James R., Honolulu, Territory of Hawaii. Mechanical golf player's stance positioner. 2,611,610, Sept .23.
Harcum, William M., Garden City, and G. Bull, Ithaca, N. Y., assignors to The Sperry Corporation. Automatic pilot for aircraft. 2,611,560, Sept. 23.
Harkenrider, Robert J., assignor to R. W. Miller, Winona, Minn. Therapeutic lamp support and control. 2,611,367, Sept. 23.

Harris, Donald B., Cedar Rapids, Iowa. Multichannel transmission system. 2,611,825, Sept. 23.
Harris, Frank R., Swansea, England, assignor to General Electric Company. Shaft coupling assembly. 2,611,632, Sept. 23.
Harris Trust and Savings Bank, trustee, assignee: *See*— Humphrey, James M., and Grevich.
Harrison, Raymond B., Arlington, Mass. Shoe lining having self-stiffening properties. 2,611,726, Sept. 23.
Harstick, William H., Oak Park, and H. W. Hein, Chicago, Ill., assignors to International Harvester Company. Magnetically actuated milk metering device. 2,611,269, Sept. 23.
Hart, Harry L.: *See*— Reynard, Chauncey G., and Hart.
Hartford National Bank and Trust Company, trustee, assignee: *See*— De Brey, Heinrich, and van Weenen. Horowitz, Alexandre. Köhler, Jacob W. L., Jonkers, Stigter, and Liebe. Poelma, Jacob, and Lamberts. Van Weenen, Franciscus L.
Hartman, Robert B., Fairfield, assignor to Remington Arms Company, Inc., Bridgeport, Conn. Inspection device. 2,611,876, Sept. 23.
Hartsell Propeller Fan Company, assignee: *See*— Herrman, Donald D., and Monroe.
Harvey, James W., Lakeville, Conn. Deep-running fish lure. 2,611,206, Sept. 23.
Harvey, James W., Lakeville, Conn. Arrow guard. 2,611,354, Sept. 23.
Harvey, Valentine P., assignor to Molins Machine Company Limited, London, England. Tucking mechanism for wrapping machines. 2,611,226, Sept. 23.
Hassinen, John B.: *See*— Bernhart, Finn W., and Hassinen.
Hathaway, Orla N., Coral Gables, assignor to American Airmotive Corporation, Miami, Fla. Adjustable seat and back rest chair construction. 2,611,421, Sept. 23.
Hatton, William, South Orange, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Electrical calculating apparatus. 2,611,538, Sept. 23.
Haulenbeek, Whyatt H., and W. F. Sanford, Lakewood, Ohio. Air treatment device. 2,611,679, Sept. 23.
Hawkes, John A.: *See*— Allen, James J., and Hawkes.
Haworth Lionel, Derby, and C. L. Johnson, Allestree, assignors to Rolls-Royce Limited, Derby, England. Pitch control and feathering mechanism for variable pitch propellers. 2,611,440, Sept. 23.
Hayes, Robert R., Cleveland, Ohio, assignor to The Reliance Electric & Engineering Co. Electric motor frame having coolant system incorporated therein. 2,611,798, Sept. 23.
Hays, John T., assignor to Hercules Powder Company, Wilmington, Del. Preparation of vinyl pyridines. 2,611,769, Sept. 23.
Hazard, Jarvis M., Bellerose, assignor to Dictograph Products Company, Inc., New York, N. Y. Audiphone. 2,611,829, Sept. 23.
Headrick, James M.: *See*— Gager, Frank M., and Headrick.
Heat-X-Changer Co., Inc., The, assignee: *See*— Boling, Cecil.
Heath, Paul D., Syracuse, N. Y., assignor to General Electric Company. Amplitude comparison circuit. 2,611,861, Sept. 23.
Heckendorf, Howard A.: *See*— Hintz, Otto E., and Heckendorf.
Heeter, Meade S., Indianapolis, Ind. Child's sleeping garment. 2,611,131, Sept. 23.
Heffner, Robert E., Borger, Tex., assignor to Phillips Petroleum Company. Catalyst support. 2,611,684, Sept. 23.
Heideman, Herbert E., assignor to Lan-O-Sheen, Inc., St. Paul, Minn. Glass cleaning composition. 2,611,747, Sept. 23.
Heim, Oskar, Woodside, N. Y. Keyboard. 2,611,291, Sept. 23.
Hein, Harold W.: *See*— Hartstick, William H., and Hein.
Heineman, Lawrence M., Los Angeles, Calif., assignor to Permoflux Corporation, Chicago, Ill. Transducer. 2,611,830, Sept. 23.
Helzer, Edward J., Mountain Lakes, assignor to Specialties Development Corporation, Belleville, N. J. Yarn traverse for yarn winding machines. 2,611,548, Sept. 23.
Heming, Arthur E., Lafayette Hill, assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Medical preparation for reducing the body level of sodium. 2,611,730, Sept. 23.
Hempel, Charles H., Manitowoc, Wis., assignor to Heresite & Chemical Company. Phenolic molding compound. 2,611,759, Sept. 23.
Hendel, Carl E., Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture. Production of potato chips. 2,611,705, Sept. 23.
Hennells, William E.: *See*— Sainsbury, John, and Hennells.
Henry, Arthur L., and A. E. Killingsworth, Fort Worth, Tex.; said Killingsworth, assignor to said Henry. Mechanic's creeper. 2,611,417, Sept. 23.
Henry, Augustus P., Los Angeles, Calif. Power conversion apparatus. 2,611,324, Sept. 23.
Henry Engineering Company, assignee: *See*— Johnson, Howard W., and Palmer.
Hercules Powder Company, assignee: *See*— Hays, John T.
Heresite & Chemical Company, assignee: *See*— Hempel, Charles H.
Herrick, Robert E., Brooklyn, N. Y. Album photo holder or mounting. 2,611,369, Sept. 23.
Herrman, Donald D., and H. K. Monroe, assignors to Hartzell Propeller Fan Company, Piqua, Ohio. Reversible fan and delivery tube. 2,611,533, Sept. 23.
Herz, Josephine D., Verona, N. J. Thread cutter device with finger support. 2,611,180, Sept. 23.
Hevi Duty Electric Company, assignee: *See*— Koch, Harold E.
Heyden Chemical Corporation, assignee: *See*— Barth, Robert H. Burrell, Harry, and Barth.
Heynau, Hans F., Hollywood, Calif. Power transmission unit. 2,611,276, Sept. 23.
Higgins, Ralph V., San Francisco, Calif. Automatic sprinkling device. 2,611,643, Sept. 23.
Hintz, Otto E., and H. A. Heckendorf, Chicago, Ill., assignors to International Harvester Company. Mechanical governor with spring supported wedge shaped governor weights. 2,611,603, Sept. 23.
Hirsch, Alfred: *See*— Underwood, Julius E., and Hirsch.
Hodson, George F., Altus, Okla., and L. L. Campbell, Riverdale, Ill., assignors to Wilson & Company, Inc. Egg shell scoring device. 2,611,409, Sept. 23.
Hoffmann, Ernest, and C. D. Gresham, assignors to Tip-Top Products Company, Omaha, Nebr. Curl forming device. 2,611,379, Sept. 23.
Hoffmann, Walter, Zurich, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie, Winterthur, Switzerland. Plural-part bearing for spinning and twisting spindles. 2,611,666, Sept. 23.
Holan, J. H., Corporation, assignee: *See*— Troche, Herman J., and Holan.
Holan, James H.: *See*— Troche, Herman J., and Holan.
Hollerith, Charles, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio. Wheel structure. 2,611,655, Sept. 23.
Hollymade Hardware Manufacturing Company, assignee: *See*— Cerf, Robert C., Jr.
Holm, Torkil, Minneapolis, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Fluorocarbon ortho esters. 2,611,787, Sept. 23.
Homasote Company, Incorporated, assignee: *See*— Becher, Hubert L.
Horner, Harold T., Milford, Conn. Engine control for model airplanes. 2,611,351, Sept. 23.
Hornfeck, Anthony J., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Electrical control system. 2,611,812, Sept. 23.
Horowitz, Alexandre, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Control for engines employing a pressure fluid medium. 2,611,234, Sept. 23.
Hotpoint Inc., assignee: *See*— Miller, Nicholas.
Houdaille-Hershey Corporation, assignee: *See*— Ludwig, Donald C., and Schatzman. Schatzman, George W.
Housewares, Inc., assignee: *See*— Sutton, John C. and W. V.
Howe Scale Company, The, assignee: *See*— Hadley, Harlan A.
Huber Manufacturing Company, The, assignee: *See*— Barrett, Dean E., and Lowery.
Huebsch, Monte F., Milwaukee, Wis., assignor, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio. Lint remover for driers. 2,611,192, Sept. 23.
Huge, Henry M., Lorain, Ohio, assignor to Lorain Products Corporation. Regulated rectifier. 2,611,889, Sept. 23.
Hulst, George D., Upper Montclair, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Television receiver. 2,611,881, Sept. 23.
Hultquist, Martin E.: *See*— Germann, Richard P., Hultquist, and Smith.
Humber Limited, assignee: *See*— Kamper, Andrew M.
Hume, Tirey L.: *See*— Meighan, William A., and Hume.
Humma, Cyril A., assignor of thirty-three and one-third per cent to G. Humma, Kenhorst, Pa. Demountable wheel assembly. 2,611,653, Sept. 23.
Humma, George, assignee: *See*— Humma, Cyril A.
Humphrey, James M., New Richmond, Wis., and J. J. Grevich, St. Paul, Minn., assignors, by mesne assignments, to Harris Trust and Savings Bank and W. H. Milsted, as trustees. Heat seamer. 2,611,725, Sept. 23.
Huxton, Alfred, assignor to Joseph Lucas Limited, Birmingham, England. Combustion chamber for prime movers. 2,611,243, Sept. 23.

I-T-E Circuit Breaker Company, assignee: *See*— Conangla, Amado. Goessel, Elmer.
Illinois Stamping & Mfg. Co., assignee: *See*— Palm, George H.
Illner, Paul R., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Embossing calender. 2,611,312, Sept. 23.
Imperial Pen & Pencil Co., Inc., assignee: *See*— Aimes, Francis M.
Industrial Metal Abrasive Company, assignee: *See*— Schneidewind, Richard.
Interior, United States of America as represented by the Secretary of the, assignee: *See*— Applegate, Lindsay M.
International Cellucotton Products Company, assignee: *See*— Nelson, Howard.
International Cigar Machinery Company, assignee: *See*— Gustavson, Sterling T. Neumair, Joseph A. Peterson, Pontus.
International Harvester Company, assignee: *See*— Harstick, William H., and Hein. Hintz, Otto E., and Heckendorf. Keller, Arthur H. Morkoski, James. O'Neil, Gordon R. Palmer, John S. Reynolds, Delos J. Toland, Wayne G. Turnbull, Glen O.
International Standard Electric Corporation, assignee: *See*— Bailey, Robert S. Bailey, Robert S., and Silver. Casabona, Anthony, and Stavis. Clavier, André G. Jacobsen, Bent B., and Mitchell. Roche, Alleman H. Willoughby, Eric O.
Iowa State College Research Foundation, Inc., assignee: *See*— Plagge, Homer H.
Iron Fireman Manufacturing Co., assignee: *See*— Rosebraugh, Walter A.
Irwin, Herbert G., Noble, La. Smoke absorbent smoker. 2,611,311, Sept. 23.
Isenberg, Alexander H., assignee: *See*— Williamson, Thomas F. M.
Ivanc, Lewis S., assignee: *See*— Legerski, Charles J.
Jacobs, James W., assignor to General Motors Corporation, Dayton, Ohio. Electrical apparatus. 2,611,275, Sept. 23.
Jacobsen, Bent B., and W. J. Mitchell, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Electric wave filter. 2,611,874, Sept. 23.
Jacobson, William, Ashford, Wash. Drag saw having angularly adjustable blade. 2,611,399, Sept. 23.
Jaeger, Edward B., Philadelphia, Pa. Dry mix. 2,611,704, Sept. 23.
Jalkanen, Väinö K., Viitasaari, Finland. Variable capacity container. 2,611,272, Sept. 23.
James, Cyril H., and F. Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,611,142, Sept. 23.
Janiszewski, Kasimir, assignor to Superior Steel Products Corp., Milwaukee, Wis. Die set. 2,611,435, Sept. 23.
Jarrett, John W., R. L. Tangeman, and M. B. Schmidt, Dayton, Ohio, assignors, by mesne assignments, to Loeffelholz Company, Milwaukee, Wis. Folding toilet. 2,611,134, Sept. 23.
Jasik, Henry: *See*— Alford, Andrew, and Jasik.
Jebens, Raymond H., Wellaville, assignor to The Patterson Foundry & Machine Co., East Liverpool, Ohio. Method and apparatus for stage kneading. 2,611,590, Sept. 23.
Jeffrey Manufacturing Company, The, assignee: *See*— Lee, Arthur L.
Jenkins Bros., assignee: *See*— Webb, James H.
Jennen, Jacob J., Antwerp, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Colored photographic layers. 2,611,698, Sept. 23.
Jensen, Homer: *See*— Rumbaugh, Lynn H., Jensen, and Balsley.
Jensen, Homer, Philadelphia, Pa. Method and apparatus for magnetic exploration. 2,611,802, Sept. 23.
Jensen, Thormod, Laurelton, N. Y., assignor to American Machine & Foundry Company. Registration device for wrapping machines. 2,611,224, Sept. 23.
Jerguson Gage & Valve Company, assignee: *See*— van Ham, Ernest E.
Jet-Heet, Inc., assignee: *See*— MacCracken, Calvin D.
Jirsa, Emil F., Waterloo, assignor to Deere Manufacturing Co., Dubuque, Iowa. Fluid seal assembly. 2,611,671, Sept. 23
Johansen, Roy W.: *See*— Strehlow, Walter F., O'Harrow, and Johansen.
Johansson, Erik, B. Bergvall, and U. Alfredsson, Jonkoping, assignors to A B Svenska Flaktfabriken, Stockholm, Sweden. Mechanism for separating sheetlike materials. 2,611,471, Sept. 23.
Johnson, Alden O.: *See*— Johnson, Gordon C., and A. O.
Johnson, Andrew G., Lakewood, assignor to The Weatherhead Company, Cleveland, Ohio. Relief valve. 2,611,390, Sept. 23.
Johnson, Berd L., Billings, Mont. Roughing and finishing tool. 2,611,222, Sept. 23.
Johnson, Christopher L.: *See*— Haworth, Lionel, and Johnson.
Johnson, Gordon C. and A. O., Minneapolis, Minn., assignors to John Oster Manufacturing Company, Racine, Wis. Producing lather by centrifugal action of fluid over a soap cake surface. 2,611,649, Sept. 23.
Johnson, Gordon, Company, assignee: *See*— Johnson, Gordon W.
Johnson, Gordon W., Raytown, assignor to Gordon Johnson Company, Kansas City, Mo. Leaf stripper. 2,611,215, Sept. 23.
Johnson, Howard W., and R. L. Palmer, assignors to Henry Engineering Company, Burbank, Calif. U control toy airplane. 2,611,213, Sept. 23.
Johnson, Oscar W., assignor to Automatic Pump & Softener Corporation, Rockford, Ill. Pilot controlled multiport valve. 2,611,392, Sept. 23.
Johnson, Virgil A., Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y. Preparation of hydrocarbon cracking stock for catalytic cracking. 2,611,737, Sept. 23.
Johnson, Walter A., assignee: *See*— Pass, Richard H., and Johnson.
Jones, Giffin D., Midland, Mich., assignor to General Aniline & Film Corporation, New York, N. Y. Amphoteric vinyl interpolymers. 2,611,763, Sept. 23.
Jonkers, Cornelius O.: *See*— Köhler, Jacob W. L., Jonkers, Stigter and Liebe.
Joy Manufacturing Company, assignee: *See*— Collins, Samuel C.
Justice, Raymond W., Youngstown, Ohio. Apparatus for testing packing materials. 2,611,263, Sept. 23.
Kahn, Leo M., Island Park, N. Y. Combined washing and squeeze drying machine. 2,611,257, Sept. 23.
Kaiser-Frazer Corporation, assignee: *See*— Logue, Raymond L.
Kalfaian, Meguer, Asbury Park, N. J. Simultaneous amplitude modulation and phase modulation with economy in bandwidth. 2,611,826, Sept. 23.
Kalikow, Irving, Swampscott, Mass., assignor to General Electric Company. Lubricant fitting. 2,611,450, Sept. 23.
Kamlukin, Igor: *See*— Strehlow, Walter F., and Kamlukin.
Kamper, Andrew M., assignor, to Humber Limited, Coventry, England. Power-transmission mechanism. 2,611,886, Sept. 23.
Kampouris, Nicholas E., Gary, Ind. Retaining device for sponges. 2,611,147, Sept. 23.
Keene, Edward L., Houston, Tex., and D. C. Griffin, Shreveport, La. Keyway location gauge. 2,611,187, Sept. 23.
Keene, Lester E., Newtonville, Mass., assignor, by mesne assignments, to Whitin Machine Works. Ball bearing textile spindle. 2,611,231, Sept. 23.
Keller, Arthur H., Moline, Ill., assignor to International Harvester Company. Combination variable speed pulley and engine throttle control for harvester threshers. 2,611,227, Sept. 23.
Keller, Ray B., and H. B. Dawson, assignors to Hammermill Paper Company, Erie, Pa. Duplicating method. 2,611,313, Sept. 23.
Kelley, Everett F.: *See*— Snow, Howard C., Kelley, and Sayward.
Kelley, Walter C., and H. C. Phillips, assignors to Minick's Ice Cream Co., Inc., Los Angeles, Calif. Mixer for frozen desserts. 2,611,588, Sept. 23.
Kellogg Switchboard and Supply Company, assignee: *See*— Arthur, Richard P.
Kennedy, William M., Lyndhurst, and B. E. Meurk, Upper Montclair, N. J. Air and erosion or corrosion eliminator device. 2,611,446, Sept. 23.
Kensington Steel Company, assignee: *See*— Posselt, Ejnar.
Keough, John J., Marlboro, Mass. Combined pump and motor cylinder. 2,611,350, Sept. 23.
Kerby, Wilmer, Ottawa, Ontario, Canada. Battery heater. 2,611,853, Sept. 23.
Kernkamp, Irwin A., Spokane, Wash. Oxygen tank cart. 2,611,622, Sept. 23.
Kerr, Alexander H., & Co., Inc., assignee: *See*— Sachs, Carrol C.
Keshian, Henry G., Waterbury, Conn. Metallurgical apparatus for treating test specimens. 2,611,264, Sept. 23.
Keuffel & Esser Company, assignee: *See*— Baker, Allister L.

Key, Claude L., Milton, Oreg. Vine feeding attachment for vine threshers. 2,611,370, Sept. 23.

Keyes, Grafton H., and L. G. S. Brooker, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic element containing unsymmetrical oxonol filter and antihalation dyes. 2,611,696, Sept. 23.

Keys, William J., Waterloo, N. Y. Sanitary toothbrush holder. 2,611,477, Sept. 23.

Killingsworth, Albert E.: *See*—
Henry, Arthur L., and Killingsworth.

Kilpatrick, William J., Detroit, Mich. Outlet control and agitator for bins. 2,611,513, Sept. 23.

Kimball Elevator Co., Ltd., assignee: *See*—
Rogers, Gael S.

King, Etta E., and D. P. Tata, Leominster, Mass.: said Tata assignor to said King. Hair curling device. 2,611,378, Sept. 23.

King, William F.: *See*—
Beckwith, Sterling, and King.

Kinsella, Edward, Spondon, near Derby, England, assignor to Celanese Corporation of America. Yarn-winding machinery. 2,611,549, Sept. 23.

Kipp, Egbert M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Lubrication composition. 2,611,742, Sept. 23.

Kipp, Egbert M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Lubrication composition. 2,611,743, Sept. 23.

Kipp, Egbert M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Lubrication composition. 2,611,744, Sept. 23.

Kipp, Egbert M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Lubricating composition. 2,611,745, Sept. 23.

Kipp, Egbert M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Lubricating composition. 2,611,746, Sept. 23.

Kirk, Lowell M., Gary, Ind., assignor to United States Steel Company. Repairing furnace walls. 2,611,330, Sept. 23

Kirkpatrick, Floyd M., Erie, Pa., assignor to General Electric Company. Rotary pump. 2,611,534, Sept. 23.

Kirlin Company, The, assignee: *See*—
Kirlin, Ivan M.

Kirlin, Ivan M., assignor to The Kirlin Company, Detroit, Mich. Apertured ears on recessed lamp for receiving supporting rods. 2,611,502, Sept. 23.

Kishline, Floyd F., R. H. Phelps, and J. S. Voigt, assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Independent front wheel suspension coupled as a unit to the vehicle frame. 2,611,625, Sept. 23.

Kloss, Emma E., Chicago, Ill. Board game apparatus. 2,611,616, Sept. 23.

Knibbs, Norman V. S., Longfield, England. Hydration of lime. 2,611,683, Sept. 23.

Knight, Dee A., Lawson, Colo. Vibrating-hearth furnace. 2,611,601, Sept. 23.

Knowles, John H., Larchmont, N. Y., assignor to The Dorr Company, Stamford, Conn. Distributor for trickling filters. 2,611,646, Sept. 23.

Kobler, Victor and W., Zurich, Switzerland. Razor having shearheads with one end closer to each other than the other end. 2,611,175, Sept. 23.

Kobler, Werner: *See*—
Kobler, Victor and W.

Koch, George J.: *See*—
Van Dyck, Kenneth A., and Koch.

Koch, Harold E., Pewaukee, assignor to Hevi Duty Electric Company, Milwaukee, Wis. Electric heat treating furnace. 2,611,790, Sept. 23.

Koch, Winfield R., Marlton, N. J., assignor to Radio Corporation of America. Combination radio and television receiving system. 2,611,818, Sept. 23.

Koci, Jerry C., assignor to Chicago Coin Machine Company, Chicago, Ill. Anticheating device. 2,611,839, Sept. 23.

Kocks Snickerifabriker Aktiebolag, assignee: *See*—
Ohlsson, Folke.

Köhler, Jacob W. L., C. O. Jonkers, W. H. Stigter, and A. A. Liebe, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hot gas engine of the bellows type. 2,611,236, Sept. 23.

Kothny, Gottdank L., Strafford, assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Borehole apparatus centering guide. 2,611,664, Sept. 23.

Kraeling, Harry A., assignee: *See*—
Morrison, Chester C.

Krazinski, Leo C., assignee: *See*—
Fashay, Alexander.

Kroll, Joseph J., Royalton, Minn. Mailbox stand. 2,611,570, Sept. 23.

Kruse, Hugo W., Rockford, Ill. Clip storing and dispensing device. 2,611,674, Sept. 23.

Kuemmerlein, Edward M., Wauwatosa, and C. A. Newland, Waukesha, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Overspeed trip valve mechanism. 2,611,382, Sept. 23.

Kulczycki, Karol, Brooklyn, N. Y., assignor, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Bobbin battery indexing mechanism. 2,611,394, Sept. 23.

Labus, Otto A., assignor to The Trane Company, La Crosse, Wis. Heat exchanger. 2,611,584, Sept. 23.

Lacey, Edward, Los Angeles, Calif. Multiplex antenna distribution system. 2,611,895, Sept. 23.

Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Dialkyl bicyclo [2.2.1]-5-heptene-2-phosphonates. 2,611,784, Sept. 23.

La Forge, Charles J.: *See*—
White, Gifford E., Graef, and La Forge.

Lake, Francis G.: *See*—
Rinne, John, Ashton, Mallard, and Lake.

Lambert, Georges, Lyons, France. Perforated soap-enclosing cover. 2,611,144, Sept. 23.

Lamberts, Clamor A.: *See*—
Poelma, Jacob, and Lamberts.

Lampe, Elmer A., Chicago, Ill. Sealed sleeve bearing unit. 2,611,667, Sept. 23.

Landis, Harold O., assignor to Berks Electronic Service, Inc., Reading, Pa. Adjustable base for antenna masts. 2,611,566 Sept. 23.

Lan-O-Sheen Inc., assignee: *See*—
Heideman, Herbert E.

Lantz, Alpha P., Washington, D. C. Portable sectional ironing board. 2,611,197, Sept. 23.

Lapostolle, Pierre M. Saint-Germain-en-Laye, France. Ultrahigh frequency traveling-wave tube power regulating system. 2,611,832, Sept. 23.

Lapsley, Robert, Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Torque converter brake construction. 2,611,452, Sept. 23.

La Rocca, John, Valley Stream, assignor to Pioneer Mounting & Finishing Co., Inc., New York, N. Y. Display device. 2,611,572, Sept. 23.

Larson, David C., Yonkers, assignor to Otis Elevator Company, New York, N. Y. Control mechanism. 2,611,451, Sept. 23.

Latourelle, Harry E., assignor to Reinhard Brothers Company, Minneapolis, Minn. Magneto tester. 2,611,265, Sept. 23.

Lavanish, Michael, Cleveland, Ohio. Combination cigarette case and implement. 2,611,480, Sept. 23.

Law, Peter L., Roseville, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia. Article dispensing system. 2,611,540, Sept. 23.

Law, Peter L., Roseville, near Sydney, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia. Selection circuits. 2,611,814, Sept. 23.

Lawrence, Howard C., Delaware Township, Camden County, and G. E. Yewdall, Palmyra, N. J., assignors to Radio Corporation of America. Relay control system. 2,611,808, Sept. 23.

Lazzery, Angelo G., Oaklyn, N. J., assignor to Radio Corporation of America. Multiple band turret-type tuning system. 2,611,807, Sept. 23.

Leavitt, James P. H.: *See*—
Coleman, Willits E., and Leavitt.

Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Loading machine having a hydraulic control system for traction means. 2,611,444, Sept. 23.

Lee, Robert H., Indianapolis, Ind., assignor, by mesne assignments, to Micro Recording Company. Control switching system for automatic exposure timers. 2,611,809, Sept. 23.

Leeds and Northrup Company, assignee: *See*—
Gray, William T.

Leffel, James, & Co., The, assignee: *See*—
Biggs, George A.

Legerski, Charles J., assignor of ten per cent to L. S. Ivanc, Cleveland, Ohio. Valved tool for bleeding brake cylinders. 2,611,387, Sept. 23.

Lehman, Robert M., Pasadena, Calif. Method and machine for making doughnuts and the like. 2,611,329, Sept. 23.

Leoblein, John W., assignee: *See*—
Bevington, John E.

Lever Brothers Company, assignee: *See*—
Rourke, John, and Dow.

Levy, Charles, assignee: *See*—
Roman, John.

Levy, Herbert, Bronx, N. Y. Vacuum cleaner carrier. 2,611,149, Sept. 23.

Lewis, Donald, Dallas, Tex., assignor to I. Lewis Cigar Manufacturing Company, Newark, N. J. Collapsible display rack for cigar boxes and similar items. 2,611,491, Sept. 23.

Lewis, I., Cigar Manufacturing Company, assignee: *See*—
Lewis, Donald.

Liebe, August A.: *See*—
Köhler, Jacob W. L., Jonkers, Stigter, and Liebe.

Light, George S., Winsted, Conn. Plastic and metal headed pin. 2,611,168, Sept. 23.

Limpus, Isaac O., Shelbyville, Ind. Wire splicing pliers. 2,611,397, Sept. 23.

Lindsay, Frank E., assignor to The Austin Motor Company Limited, Birmingham, England. Internal-combustion engine poppet valve cooling. 2,611,348, Sept. 23.

Linstrom, Hjalmer C., Milford, Iowa. Oil gauge wiping device. 2,611,145, Sept. 23.

Lipic, Sylvester G., Sappington, Mo. Pyrophoric lighter with display chamber. 2,611,202, Sept. 23.

Ljungström, Birger, Stockholm, Sweden. Turbine driven compressor. 2,611,532, Sept. 23.

Lobosco, Roscoe R., Elizabeth, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Line tracker control electronic drive. 2,611,887, Sept. 23.

Lockhart, Carl B., Youngstown, Ohio. Combination neutral pressure point adjuster and draft diverter. 2,611,361, Sept. 23.

Lockhart, Robert K., Collingswood, N. J., assignor to Radio Corporation of America. Sawtooth wave generator. 2,611,872, Sept. 23.

Loeffelholz Company, assignee: *See*—
Jarrett, John W., Tangeman, and Schmidt.

Logue, Raymond L., Detroit, assignor to Kaiser-Frazer Corporation, Willow Run, Mich. Hood ornament construction. 2,611,687, Sept. 23.

London, Milton H., Detroit, Mich. Safety interlocked ticket receiving and checking machine. 2,611,535, Sept. 23.

Longenecker, Charles I., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Inclined axis rotatable drum concrete mixing apparatus. 2,611,591, Sept. 23.

Lorain Products Corporation, assignee: *See*—
Huge, Henry M.

Lott, Frank H., Lebanon, Oreg. Heated lunch pail. 2,611,851, Sept. 23.

Lowery, Clarence D.: *See*—
Barrett, Dean E., and Lowery.

Luboshez, Benjamin E., assignor to Eastman Kodak Company, Rochester, N. Y. Supplemental lens for camera objectives. 2,611,294, Sept. 23.

Lucas, Joseph, Limited, assignee: *See*—
Clarke, John S., A. E., and Coupe.

Lucas, Joseph, Limited, assignee: *See*—
Huyton, Alfred.

Luce, Stewart B., La Grange, assignor to Swift & Company, Chicago, Ill. Vinyl acetate polymerization. 2,611,762, Sept. 23.

Ludwig, Donald C., and G. W. Schatzman, assignors to Houdaille-Hershey Corporation, Detroit, Mich. Fender and fender shield assembly. 2,611,629, Sept. 23.

Luger, Catherine P.: *See*—
Zamboni, William E., and Luger.

Luger, Kenneth E.: *See*—
Zamboni, William E., and Luger.

Luger, Kenneth E., Co., assignee: *See*—
Zamboni, William E., and Luger.

Lyhrook, Malcolm T., and H. H. Clayton, assignors to Essex Wire Corporation, Logansport, Ind. Turn indicator. 2,611,842, Sept. 23.

Lynes, Inc., assignee: *See*—
Lynes, John.

Lynes, John, assignor to Lynes, Inc., Houston, Tex. High pressure inflatable packer. 2,611,437, Sept. 23.

MacCallum, Alan M., Maywood, N. J., and S. L. Baring-Gould, New York, N. Y., assignors to Bendix Aviation Corporation, Teterboro, N. J. Navigation system. 2,611,190, Sept. 23.

MacCracken, Calvin D., New Rochelle, assignor to Jet-Heet, Inc., New York, N. Y. Heater for enclosed spaces. 2,611,599, Sept. 23.

Macklewicz, Maria, New York, N. Y. Flapping wing flier for individual flying. 2,611,558, Sept. 23.

Mallard, Robert G.: *See*—
Rinne, John, Ashton, Mallard, and Lake.

Mallinckrodt Chemical Works, assignee: *See*—
Wallingford, Vernon H.

Manitowoc Shipbuilding Company, assignee: *See*—
Winborn, Byron R., Jr., and Beduhn.

Mann, Lois S., Waterville, Vt. Colostomy belt. 2,611,364, Sept. 23.

Mann, Smith & Coulter, assignee: *See*—
Coulter, George W.

Mannbro, Nils V., Fredriksberg, Sweden. Recoving hydrogen sulfide from sulfide containing soda liquors obtained in cellulose production. 2,611,682, Sept. 23.

Manning, Burwell D., Columbia, S. C. Mechanical bola. 2,611,340, Sept. 23.

Mansfield Industries, Inc., assignee: *See*—
Aboltin, Bernard.

Marlin Firearms Company, The, assignee: *See*—
Robinson, Thomas R., Jr.

Marnon, Donald E., Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Preparing organic pigments in finely divided form. 2,611,771, Sept. 23.

Marston, Arthur E., and M. D. Adcock, Washington, D. C. Broadband helical antenna. 2,611,868, Sept. 23.

Martin, John H., Toronto, Ontario, Canada, assignor to General Electric Company. Conduit junction box. 2,611,500, Sept. 23.

Martin, W. H., assignee: *See*—
Wahle, Adolph.

Martin, William E., Kewanee, Ill. Foldable trailer hitch. 2,611,496, Sept. 23.

Martiri, Roberto, Buenos Aires, Argentina. Self-gasifying heating equipment. 2,611,425, Sept. 23.

Marvin, W. H., Company, The, assignee: *See*—
Schafer, Arnold W.

Massey-Harris Co., Ltd., assignee: *See*—
Ego, George R.

May, John W., assignor to Deering Milliken Research Trust, Pendleton, S. C. Yarn guide for automatic bobbin winders. 2,611,547, Sept. 23.

May, La Verne E., San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation. Centering mechanism for aircraft controls. 2,611,561, Sept. 23.

Mayer, Martin E., assignor to J. Solomon, New York, N. Y. Double container. 2,611,499, Sept. 23.

McCoy, David O., assignor to Collins Radio Company, Cedar Rapids, Iowa. High-speed slewing. 2,611,893, Sept. 23.

McGuire, Leonard, Sioux City, Iowa. Handle fastener for brushes and the like. 2,611,658, Sept. 23.

McIntyre, Marjorie E., Valdosta, Ga. Hair cutting and curling device. 2,611,376, Sept. 23.

McKiney, James F.: *See*—
Guzey, William, Jr., Curlett, and McKiney.

McKinney, Leon L. and L. H., Hartford, Conn. Reclining self-adjusting chair. 2,611,419, Sept. 23.

McKinney, Lucius H.: *See*—
McKinney, Leon L. and L. H.

McNairy, Jacob W., Westport, Conn., assignor to General Electric Company. Control circuit with temperature and/or humidity compensation. 2,611,854, Sept. 23.

Meeker, Willard F., and F. H. Slaymaker, Rochester, N. Y., assignors to Stromberg-Carlson Company. Echo ranging system. 2,611,445, Sept. 23.

Meighan, William A., and T. L. Hume, Portland, Oreg. Tensioning and joining device for strap ends. 2,611,164, Sept. 23.

Meighan, William A., Oswego, Oreg. Bundling choker. 2,611,638, Sept. 23.

Mellen, Glenn L., Framingham Center, assignor to National Research Corporation, Boston, Mass. Velocity metering of gas flow. 2,611,268, Sept. 23.

Meredith, Frederick W., assignor to S. Smith & Sons (England) Limited, London, England. Automatic control system. 2,611,559, Sept. 23.

Merryman, Carl, assignor to Dur-O-Lite Pencil Company, Melrose Park, Ill. Drive construction for mechanical pencils. 2,611,342, Sept. 23.

Mesh, Theodore J.: *See*—
Riddle, Roy A., and Mesh.

Metal Hydrides Incorporated, assignee: *See*—
Alexander, Peter P.

Metzger, Leo F., Lakewood, Ohio. Automatic latch grip. 2,611,636, Sept. 23.

Meurk, Bengt E.: *See*—
Kennedy, William M., and Meurk.

Micro Recording Company, assignee: *See*—
Lee, Robert H.

Miller Manufacturing Co. Inc., assignee: *See*—
Guzey, William, Jr., Curlett, and McKiney.

Miller, Nicholas, Berwyn, Ill., assignor to Hotpoint Inc. Temperature control device. 2,611,845, Sept. 23.

Miller, Rudolph W., assignee: *See*—
Harkenrider, Robert J.

Miller, S. Linn, Poplar Bluff, Mo. Hitch including manually operated sliding latch mechanism. 2,611,461, Sept. 23.

Milsted, W. H., trustee, assignee: *See*—
Humphrey, James M., and Grevich.

Minick's Ice Cream Co., Inc., assignee: *See*—
Kelley, Walter C., and Phillips.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Crum, Stephen, and Sparrow.

Minneapolis-Moline Company, assignee: *See*—
Preising, William J., and Stutzke.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Holm, Torkil.

Mitchell, Harold R., assignee: *See*—
Plough, Harold E.

Mitchell, James, assignor to J. H. Fenner & Company Limited, Marfleet, Hull, England. Expansible pulley. 2,611,277, Sept. 23.

Mitchell, William J.: *See*—
Jacobsen, Bent B., and Mitchell.

Moehl, Reno W.: *See*—
Webb, Glenn M., and Moehl.

Moeller, Ruth A., Miami, Fla. Drop seat garment. 2,611,132, Sept. 23.

Molinare, Nicholas, Nutley, assignor to Bendix Aviation Corporation, Teterboro, N. J. Tool for manufacturing spiral groove tubing. 2,611,413, Sept. 23.

Molins Machine Company Limited, assignee: *See*—
Harvey, Valentine P.

Molyneux and Aspenwall, Inc., assignee: *See*—
Molyneux, Cecil P.

Molyneux, Cecil P., Hampton Bays, assignor to Molyneux and Aspenwall, Inc., Long Island City, N. Y. Electromechanical speed governor. 2,611,352, Sept. 23.

Monroe, Homer K.: *See*—
Herrman, Donald D., and Monroe.

Moore, Frances E.: *See*—
Moore, Marvin D. and F. E.

Moore, John C., 2nd., Oceanside, Calif. Toilet chair. 2,611,416, Sept. 23.

Moore, Marvin D. and F. E., North Sacramento, Calif. Rigid metal awning. 2,611,137, Sept. 23.

Morkoski, James, Canton, Ill., assignor to International Harvester Company. Beet topper. 2,611,228, Sept. 23.

Morkoski, James, Canton, Ill., assignor to International Harvester Company. Lift mechanism for tractor implements. 2,611,308, Sept. 23.

Morrison, Chester C., assignor to H. A. Kraeling, Pittsburgh, Pa. Gasoline or other liquid dispensing means. 2,611,320, Sept. 23.

Morrison, Wilbert H.: *See*—
Schaefer, Ralph A., Cerness, and Morrison.

Moser, Werner, Lenzburg, Switzerland. Device for rolling-over the edges of flat-flanged dished can bottoms or lids. 2,611,412, Sept. 23.

Mossman, Donald P., Sr., Chicago, Ill. Lever switch. 2,611,835, Sept. 23.

Mowat, John F., La Grange, Ill., assignor to United States Steel Company. Soaking pit. 2,611,600, Sept. 23.

Mugler, Charles M., Los Angeles, Calif. Coring or perforating device. 2,611,434, Sept. 23.

Muirhead & Company Limited, assignee: *See*—
Bell, John.

Mull, Bruce D., Tullahoma, Tenn. Suture gun. 2,611,366, Sept. 23.

Mÿnssen, Jacob W., assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland. Transversely divided, plural-section demountable wheel-rim. 2,611,654, Sept. 23.

Nallinger, Friedrich K. H., Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Controllable cooling system for internal-combustion engines. 2,611,347, Sept. 23.

Nash, Harold E., St. Louis, Mo. Discerptible structure. 2,611,460, Sept. 23.

Nash-Kelvinator Corporation, assignee: *See*—
Kishline, Floyd F., Phelps, and Voigt.

National Electric Instrument Company, Inc., assignee: *See*—
Rubens, Harry S.

National Inventions Corporation, assignee: *See*—
Bridges, John H.

National Research Corporation, assignee: *See*—
Mellen, Glenn L.

Naughton, Carl A., Sandston, Va. Wiring system of conductors permanently embedded in insulation. 2,611,800, Sept. 23.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Scott, Benjamin B.

Needy, George P., Inkster, Mich. Adjustable accordion air cushion spring. 2,611,607, Sept. 23.

Nelson, Howard, Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill. Dispensing package for interfolded sheet material. 2,611,482, Sept. 23.

Neslund, Axel, San Francisco, Calif. Automobile door buffer. 2,611,637, Sept. 23.

Neumair, Joseph A., Hollis, N. Y., assignor to International Cigar Machinery Company. Rider plate construction. 2,611,373, Sept. 23.

Newland, Coleman A.: *See*—
Kuemmerlein, Edward M., and Newland.

Newton, Charles G., Jr.: *See*—
Brophy, John J., and Newton.

Nicoson, Clarence I.: *See*—
Gray, Harold W., and Nicoson.

Nielsen, Erling J.: *See*—
Frederiksen, Erling K., and Nielsen.

Noble, Robert R., San Diego, Calif. Micrometer heighth gauge. 2,611,186, Sept. 23.

Noel, Edward B., Cleveland Heights, Ohio, assignor to General Electric Company. High-pressure mercury vapor lamp. 2,611,883, Sept. 23.

Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Device for transferring articles from one conveyer to another. 2,611,493, Sept. 23.

Norton Company, assignee: *See*—
Flygare, Carl G., and Ellison.

Noxon, Paul A., Tenafly, and W. A. Reichel, Hackensack, assignors to Bendix Aviation Corporation, Teterboro, N. J. Telemetric or repeater system. 2,611,191, Sept. 23.

Nygaard, Herman, Poughkeepsie, N. Y. Indicator and stop for magnetic wire recorders. 2,611,550, Sept. 23.

Nystrand, Ernst D., assignor to Paper Converting Machine Co., Inc., Green Bay, Wis. Web winding machine. 2,611,552, Sept. 23.

Oberman, Roelof M. M., The Hague, Netherlands. Signaling system. 2,611,815, Sept. 23.

Ödman, Tor A.: *See*—
Åhlén, Karl G., and Ödman.

O'Harrow, Charles T.: *See*—
Strehlow, Walter F., O'Harrow, and Johansen.

Ohlsson, Folke, Malmo, assignor to Kocks Snickerifabriker Aktiebolag, Trelleborg, Sweden. Lateral moving table leg fastener. 2,611,672, Sept. 23.

Oliver, Abe H., Azusa, Calif. Tool chest. 2,611,479, Sept. 23.

Olson, Arthur R., Wakefield, Mass., and E. W. Gelewitz, Evanston, Ill., assignors to United Shoe Machinery Corporation, Flemington, N. J. Cutting pad. 2,611,757, Sept. 23.

O'Neil, Gordon R., Canton, Ill., assignor to International Harvester Company. Planter. 2,611,331, Sept. 23.

Onondaga Pottery Company, assignee: *See*—
Pass, Richard H., and Johnson.

Orr, Clifford M.: *See*—
Busse, Wilbur E., and Orr.

Osborn, Alan D.: *See*—
Osborn, Henry J. and A. D.

Osborn, Henry J. and A. D., Glasgow, Scotland. Instrument for locating faults in electrical cables and/or measuring electrical capacity. 2,611,805, Sept. 23.

Osborn Manufacturing Company, The, assignee: *See*—
Peterson, Ruben O.

Oster, John, Manufacturing Company, assignee: *See*—
Johnson, Gordon C. and A. O.

Otis Elevator Company, assignee: *See*—
Larson, David C.

Ott, Arnold C., assignor to The Upjohn Company, Kalamazoo, Mich. Estradiol 17-cyclopentanepropionate. 2,611,773, Sept. 23.

Otto, Carl, Manhasset, N. Y. Recovering acid and benzol from benzol washing residues. 2,611,739, Sept. 23.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Steinman, Robert.

Owens, Harry S., Berkeley, and T. H. Schultz, Lafayette, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Coating foods with pectinate or pectate films. 2,611,708, Sept. 23.

Packard Motor Car Company, assignee: *See*—
Schulz, Theodore R.

Page, James: *See*—
Rose, Alfred G., and Page.

Palace Corporation, assignee: *See*—
Arehart, David D., and Dittmer.

Palm, George H., assignor to Illinois Stamping & Mfg. Co., Chicago, Ill. Spray gun. 2,611,650, Sept. 23.

Palmer, John S., Evansville, Ind., assignor to International Harvester Company. Shelf arrangement for refrigerators or the like. 2,611,675, Sept. 23.

Palmer, Leon B., Kearny, and R. W. Charlton, Verona, N. J., assignors to Congoleum-Nairn Inc. Method and products utilizing cashew nut shell liquid. 2,611,715, Sept. 23.

Palmer, Robert L.: *See*—
Johnson, Howard W., and Palmer.

Palmgren, Per G., assignor to SKF Industries, Inc., Philadelphia, Pa. Multirow roller bearing. 2,611,669, Sept. 23.

Palmgren, Per G., assignor to SKF Industries, Inc., Philadelphia, Pa. Roller bearing cage with closed-in face slot. 2,611,670, Sept. 23.

Pangborn Corporation, assignee: *See*—
Gladfelter, Wiltie I.

Paper Converting Machine Co., Inc., assignee: *See*—
Nystrand, Ernst D.

Paramythioti, Jean M., assignor to Société Anonymes des Anciens Etablissements Albaret, Rantigny, France. Tamping roller. 2,611,443, Sept. 23.

Paris, Hugh P., Seattle, Wash. Portable bathing device for animals. 2,611,341, Sept. 23.

Parke, Davis & Company, assignee: *See*—
Rawlins, Albert L., and Sultzaberger.

Parrish, Walter A., Grosse Pointe Woods, Mich., assignor to Research Engineering Corporation. Opposed piston internal-combustion engine. 2,611,349, Sept. 23.

Parrott, Thomas E., Tulsa, Okla. Tire deflating valve with pressure gauge. 2,611,386, Sept. 23.

Pass, Richard H., and W. A. Johnson, assignors to Onondaga Pottery Company, Syracuse, N. Y. Apparatus for compacting a refractory medium in a bung of chinaware. 2,611,589, Sept. 23.

Patterson, Earl M., and E. O. Behne, assignors to The Portage Machine Co., Akron, Ohio. Toolholder. 2,611,621, Sept. 23.

Patterson Foundry & Machine Co., The, assignee: *See*—
Jebens, Raymond H.

Patterson, Lawrence B., Meadville, Pa. External-combustion engine with water injection. 2,611,240, Sept. 23.

Patterson, Morehead, New York, N. Y., assignor to American Machine & Foundry Company. Bowling pin respotter. 2,611,611, Sept. 23.

Paul, Carl H., Peoria Heights, and B. F. Vogelaar, East Peoria, assignors to Caterpillar Tractor Co., Peoria, Ill. Pattern fixture for making molds for turbines. 2,611,161, Sept. 23.

Pecora, Louis J., Garrett Park, Md., assignor to the United States of America as represented by the Administrator, Federal Security Agency. German silver electrocardiograph contact electrode. 2,611,368, Sept. 23.

Pennington, Harry, San Antonio, Tex. Pressure gauge for sand formation testers. 2,611,267, Sept. 23.

Pennsylvania Railroad Company, The, assignee: *See*—
Steins, Carleton R.

Percival, William S., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, England. Single side band radio signaling. 2,611,860, Sept. 23.

Perky, Scott H., Keeseville N. Y. Conveyor apparatus for carrying trays. 2,611,472, Sept. 23.

Permoflux Corporation, assignee: *See*—
Heineman, Lawrence M.

Pesses, Marvin, Rock Island, Ill., assignor to Alter Company, Davenport, Iowa. Production of Alnico ingot from manufacturing wastes. 2,611,692, Sept. 23.

Peters, Robert J., Coeur d'Alene, Idaho. Safety body supporting device. 2,611,363, Sept. 23.

Peterson, Jack L., assignor to Burgess Battery Company, Freeport, Ill. Terminal assembly for electric-cell batteries. 2,611,794, Sept. 23.

Peterson, Pontus, Garden City, N. Y., assignor to International Cigar Machinery Company. Process and apparatus for forming tobacco bunches. 2,611,372, Sept. 23.

Peterson, Ruben O., University Heights, assignor to The Osborn Manufacturing Company, Cleveland, Ohio. Method of and apparatus for making brushes. 2,611,652, Sept. 23.

Peyton, William F., Pittsburgh, Pa. Cultivating implement with fertilizer dispenser in handle. 2,611,514, Sept. 23.

Phelps, Ross H.: *See*—
Kishline, Floyd F., Phelps, and Voigt.

Phillips, Herbert C.: *See*—
Kelley, Walter C., and Phillips.

Phillips Petroleum Company, assignee: *See*—
Heffner, Robert E.
Storment, Joseph E.

Piasecki Helicopter Corporation, assignee: *See*—
Vanderlip, Edward G., and Daland.

Piliero, James, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill. Mattress and upholstery spring structure. 2,611,138, Sept. 23.

Pinchev, Julius A., Los Angeles, Calif. Automatic cutoff and relief valve for tires. 2,611,385, Sept. 23.

Pioneer Mounting & Finishing Co., Inc., assignee: *See*—
La Rocca, John.

Pittsburgh Corning Corporation, assignee: *See*—
Ford, Walter D.

Plagge, Alma R., administratrix de bonis non: *See*—
Plagge, Homer H.

Plagge, Homer H., deceased, Ames, Iowa; by A. R. Plagge, administratrix, de bonis non, assignor of one-half to Iowa State College Research Foundation, Inc., Ames, Iowa, and one-half to The Goodyear Tire & Rubber Company, Akron, Ohio. Package and storage of apples. 2,611,709, Sept. 23.

Plough, Harold E., Laporte, assignor of one-half to H. R. Mitchell, Bemidji, Minn. 2,611,374, Sept. 23.

Pöckel, Irving, assignor to Cambridge Industries Company, Cambridge, Mass. Polyvinyl resin plasticized with polyester. 2,611,756, Sept. 23.

Poelma, Jacob, and C. A. Lamberts, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Flashbulb. 2,611,256, Sept. 23.

Pohle, Eric, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Cathode grid assembly. 2,611,676, Sept. 23.

Polytechnic Institute of Brooklyn, assignee: *See*—
Carlin, Herbert J.

Pond, Robert B., Attleboro, Mass. Fishing plug. 2,611,207, Sept. 23.

Pond, Robert B., Attleboro, Mass. Fishing lure. 2,611,209, Sept. 23.

Pontin, Fernando A., Yakima, Wash. Key case. 2,611,260, Sept. 23.

Poole, William J.: *See*—
Hackman, Frank W., and Poole.

Portage Machine Co., The, assignee: *See*—
Patterson, Earl M., and Behne.

Porter, Philip W., assignor to D. & H. Scovil, Inc., Higganum, Conn. Article for polishing. 2,611,689, Sept. 23.

Posselt, Ejnar, Pelham, N. Y., assignor to Kensington Steel Company, Chicago, Ill. Liner construction for grinding mills. 2,611,546, Sept. 23.

Possley, Ray C., Mendota, Ill. Automatic low water gas shutoff. 2,611,273, Sept. 23.

Potishman, Leo, Fort Worth, Tex. Production of adjunct to feedstuffs. 2,611,702, Sept. 23.

Powell, Charles P.: *See*—
Gannon, John J., and Powell.

Preble, Harry, Jr., Westport, Conn., assignor to General Slicing Machine Company, Inc., Walden, N. Y. Slicing machine in combination with a cabinet therefor. 2,611,406, Sept. 23.

Preising, William J., New Albany, Ind., and R. E. Stutzke, Louisville, Ky., assignors, by mesne assignments, to Minneapolis-Moline Company. Draft gear. 2,611,303, Sept. 23.

Preston, Edwin L., River Forest, Ill. Building block construction. 2,611,261, Sept. 23.

Pribus, Clarence W., assignor to Eastman Kodak Company, Rochester, N. Y. Mount for optical elements. 2,611,296, Sept. 23.

Price, Joseph W., assignor to Transportation Sash Company, Inc., Topton, Pa. Removable sash lock assembly. 2,611,462, Sept. 23.

Proctor Electric Company, assignee: *See*—
Turner, Charles R.

Pure Oil Company, The, assignee: *See*—
Carr, Richard H., and Covell.

Pye Limited, assignee: *See*—
Weighton, Donald.

Pyrene Manufacturing Company, assignee: *See*—
Faulkner, James.

Quick, Frank P. E., North Plainfield, N. J. Poultry feeder. 2,611,339, Sept. 23.

Quilter, John R. C., Woking, England. Parachute apparatus. 2,611,565, Sept. 23.

Rabe, Rudolf, Inkster, Mich. Cam operated coupling. 2,611,464, Sept. 23.

Radio Corporation of America, assignee: *See*—
Albee, Arthur C.
Coleman, John H.
Collins, Milford E.
Darke, Francis J., Jr.
Denton, Bethel E.
Gunby, Olin B.
Koch, Winfield R.
Lawrence, Howard C., and Yewdall.
Lazzery, Angelo G.
Lockhart, Robert K.
Serrell, Robert.
Somers, Frank J.
Webster, William M., Jr.
Webster, William M., Jr., and Bain.

Randall, Elwin E., assignor to Servall Products, Inc., Grand Rapids, Mich. Venetian blind, including vertical tapes and means for twisting the upper and lower ends of tapes independently. 2,611,426, Sept. 23.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,611,148, Sept. 23.

Rawlins, Albert L., Grosse Pointe Woods, and J. A. Sultzaberger, assignors to Parke, Davis & Company, Detroit, Mich. Antibiotic preparations. 2,611,731, Sept. 23.

Rawls, Vaughn, Lima, Ohio. Tire lug for relugging tires. 2,611,411, Sept. 23.

Reichel, Wladimir A.: *See*—
Noxon, Paul A., and Reichel.

Reinhard Brothers Company, assignee: *See*—
Latourelle, Harry E.

Reliance Electric & Engineering Co., The, assignee: *See*—
Hayes, Robert R.

Rembold, Albert A., San Francisco, Calif. Cutting machine. 2,611,433, Sept. 23.

Remington Arms Company, Inc., assignee: *See*—
Hartman, Robert B.
Slater, Raymond E.

Resan, Stephen F., assignor to Woodruff & Edwards, Inc., Elgin, Ill. Grease trap. 2,611,488, Sept. 23.

Research Engineering Corporation, assignee: *See*—
Parrish, Walter A.

Research Products Corporation, assignee: *See*—
Rowe, Carl B.

Reynard, Chauncey G., and H. L. Hart, assignors to Basic Products Corporation, Fort Wayne, Ind. Time-controlled switch. 2,611,429, Sept. 23.

Reynolds, Delos J., assignor of one-half to International Harvester Company, Chicago, Ill., and one-half to Westinghouse Electric Corporation, Pittsburgh, Pa. Removable carrier tray for gear hardening apparatus. 2,611,473, Sept. 23.

Reynolds, Donald F., Berkley, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle frame structure. 2,611,627, Sept. 23.

Rhodes, Clement T., Ascot, England. Apparatus for precision grinding. 2,611,221, Sept. 23.

Richards, George F., Garden City, assignor to Teletronics Laboratory, Inc., Westbury, N. Y. Reversible electric control system. 2,611,888, Sept. 23.

Ricks, Fred: *See*—
James, Cyril H., and Ricks.

Riddle, Pearl K., administratrix: *See*—
Riddle, Roy A., and Mesh.

Riddle, Roy A., deceased, Summit, N. J., and T. J. Mesh, Easthampton, Mass.; P. K. Riddle, administratrix of said R. A. Riddle, and said T. J. Mesh assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Electronic grounding apparatus. 2,611,862, Sept. 23.

Ridenour, William P., assignor to Gulf Research & Development Company, Pittsburgh, Pa. Wax production process. 2,611,734, Sept. 23.

Ridings, Gordon C.: *See*—
Berry, George E., and Ridings.

Riell, Ralph, Brooklyn, N. Y. Bed spring. 2,611,137, Sept. 23.

Riise, Charles W., Berkeley, Calif. Dispensing mechanism for cylindrical articles. 2,611,673, Sept. 23.

Rines, Robert H., Brookline, Mass. Thermoelectric system for remote object images. 2,611,894, Sept. 23.

Rinne, John, Brooklyn, N. Y., E. H. Ashton, Belmar, N. J., R. G. Mallard, Staten Island, and F. G. Lake, New York, N. Y., assignors by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Take-up mechanism. 2,611,395, Sept. 23.

Rinne, John, Staten Island, N. Y., E. H. Ashton, Allston, R. G. Mallard, Hopedale, Mass., and F. G. Lake, New York, N. Y., assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Let back control. 2,611,396, Sept. 23.

Risher, Carl A., Indianapolis, Ind. Soap dispenser. 2,611,648, Sept. 23.

Ritter, Herman, Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Compensating presser device for sewing machines. 2,611,333, Sept. 23.

Robijns, Willem, Antwerp-Mortsel, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Making a photographic sensitive element. 2,611,716, Sept. 23.

Robinson, John W., Merchantville, N. J., assignor to Selas Corporation of America, Philadelphia, Pa. Apparatus for separating immiscible liquids. 2,611,490, Sept. 23.

Robinson, Thomas R., Jr., Newton, assignor to The Marlin Firearms Company, New Haven, Conn. Receiver and action assembly for firearms. 2,611,204, Sept. 23.

Roche, Alleman H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric amplifier with negative feedback. 2,611,833, Sept. 23.

Rockola, David C.: *See*—
Cambron, John R., and Rockola.

Rockola, David C., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Coin chute mechanism. 2,611,468, Sept. 23.

Rock-Ola Manufacturing Corporation, assignee: *See*—
Rockola, David C.
Cambron, John R., and Rockola.

Rodacker, Albert R., Chico, Calif. Food molding device. 2,611,230, Sept. 23.

Rogers, Gael S., assignor to Kimball Elevator Co., Ltd., Los Angeles, Calif. Interlocking elevator door latch switch. 2,611,840, Sept. 23.

Rohm & Haas Company, assignee: *See*—
Bortnick, Newman M.

Rohr Aircraft Corporation, assignee: *See*—
Gross, Bernard.

Rolls-Royce Limited, assignee: *See*—
Haworth, Lionel, and Johnson.

Roman, John, Elizabeth, N. J., assignor of one half to C. Levy, Brooklyn, N. Y. Pie crimping and sealing device. 2,611,328, Sept. 23.

Roman, Robert J.: *See*—
Askren, Lee T., and Roman.

Roney, John F., Los Angeles, Calif., assignor to Safway Steel Products, Inc., Milwaukee, Wis. Demountable grandstand seat planks. 2,611,422, Sept. 23.

Rose, Alfred G., and J. Page, assignors to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Feeding of collapsed cartons and the like. 2,611,299, Sept. 23.

Rose Brothers (Gainsborough) Limited, assignee: *See*—
Rose, Alfred G., and Page.

Rosebraugh, Walter A., assignor to Iron Fireman Manufacturing Co., Portland, Oreg. Centrifugal operating device. 2,611,602, Sept. 23.

Ross, Frederick W., Dearborn, Mich. Airplane control system. 2,611,563, Sept. 23.

Ross Operating Valve Company, assignee: *See*—
Sainsbury, John, and Hennells.

Rotax Limited, assignee: *See*—
Bourne, William G.

Rourke, John, Bebington, and W. T. Dow, Upton, England, assignors to Lever Brothers Company, Cambridge, Mass. Method and apparatus for manufacturing margarine. 2,611,707, Sept. 23.

Rover Company Limited, The, assignee: *See*—
Bell, Francis R.

Rowe, Carl B., assignor to Research Products Corporation, Madison, Wis. Apparatus for making expanded sheet material. 2,611,298, Sept. 23.

Rubens, Harry S., Manhasset, assignor to National Electric Instrument Company, Inc., Elmhurst, N. Y. High-frequency therapeutic apparatus. 2,611,365, Sept. 23.

Rudel, Harry W.: *See*—
Bartlett, Jeffrey H., Rudel, and Cyphers.

Rudoff, Hyman, assignor to Shawinigan Resins Corporation, Springfield, Mass. Vinyl acetate-allyl acetate copolymer emulsion. 2,611,754, Sept. 23.

Rudolph, Edward A., Richmond Annex, Calif. Dispensing apparatus. 2,611,327, Sept. 23.

Rudolph, Edward A., Richmond Annex, Calif. Bread feeding machine. 2,611,470, Sept. 23.

Ruhrchemie Aktiengesellschaft, assignee: *See*—
Tramm, Heinrich.

Rumbaugh, Lynn H., Washington, D. C., H. Jensen, Philadelphia, Pa., and J. R. Balsley, Jr., Arlington, Va. Method and apparatus for conducting geophysical surveys. 2,611,803, Sept. 23.

Runge, Frank E., Branford, assignor to The Soundscriber Corporation, New Haven, Conn. Record marker for dictating machines. 2,611,620, Sept. 23.

Ruth, Joseph P., Denver, Colo. Exhaust gas conditioning method. 2,611,680, Sept. 23.

Ryan Aeronautical Co., The, assignee: *See*—
Derbyshire, Charles F.

Ryland, Junior S., Santa Barbara, Calif. Heated toilet seat. 2,611,415, Sept. 23.

SKF Industries, Inc., assignee: *See*—
Palmgren, Per G.

Sachs, Carrol C., North Hollywood, assignor to Alexander H. Kerr & Co., Inc., Los Angeles, Calif. Resin impregnating machine for fabric or like material. 2,611,336, Sept. 23.

Sadeck, Marshall, New Bedford, Mass. Device for carrying milk bottles. 2,611,639, Sept. 23.

Safway Steel Products, Inc., assignee: *See*—
Roney, John F.

Sainsbury, John, Detroit, and W. E. Hennells, Belleville, assignors to Ross Operating Valve Company, Detroit, Mich. Valve. 2,611,391, Sept. 23.

Salomone, Rynold A.: *See*—
Hammerly, Herman J., Turton, and Salomone.

Sampatacos, Peter M., assignor to The Torrington Manufacturing Company, Torrington, Conn. Machine for twisting fan spiders. 2,611,414, Sept. 23.

Samuelson, Robert E., Chicago, Ill., assignor to The Hallicrafters Co. Tuning apparatus for electronic equipment. 2,611,858, Sept. 23.

Sanders, Earl V., Pawnee, Ill. Aircraft adjustable lift-propeller cradle. 2,611,554, Sept. 23.

Sanford, Willis F.: *See*—
Haulenbeek, Whyatt H., and Sanford.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Steam resistant isoolefin-diolefin copolymer rubbery composition. 2,611,758, Sept. 23.

Sargeant, James A., Fort Belvoir, and J. R. Wade, Jr., Alexandria, Va. Inspection means for sealed packages. 2,611,481, Sept. 23.

Saunders, Erle F., Montreal West, Quebec, Canada, and D. Drysdale, Philadelphia, Pa. Spinning frame. 2,611,230, Sept. 23.

Sawdon, Victor J., New York, N. Y. Envelope combination. 2,611,630, Sept. 23.

Sawyer, Hilon W., Nutley, and O. Schellenberger, Paterson, assignors to Thomson Machine Company, Belleville, N. J. Article sorting device. 2,611,484, Sept. 23.

Sayward, Samuel S.: *See*—
Snow, Howard C., Kelley, and Sayward.

Schade, Willy, assignor to Eastman Kodak Company, Rochester, N. Y. Optical objective comprising a meniscus doublet and meniscus triplet between two positive components. 2,611,295, Sept. 23.

Schaedler, Tony: *See*—
Haas, Otto, Schaedler, and Schneider.

Schaefer, Ralph A., Cleveland, J. F. Cerness, East Cleveland, and W. H. Morrison, Cleveland Heights, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making bearings. 2,611,163, Sept. 23.

Schafer, Arnold W., assignor to The W. H. Marvin Company, Urbana, Ohio. Machine for pitting fruits such as dates. 2,611,403, Sept. 23.

Schatzman, George W.: *See*—
Ludwig, Donald C., and Schatzman.

Schatzman, George W., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield. 2,611,628, Sept. 23.

Scheer, Charles L., Haddonfield, N. J., assignor to Foote Mineral Company, Philadelphia, Pa. Sealing structure of the gasket type. 2,611,506, Sept. 23.

Schellenberger, Otto: *See*—
Sawyer, Hilon W., and Schellenberger.

Schellentrager, Eugene W., Shaker Heights, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio. Housing for scale mechanism. 2,611,605, Sept. 23.

Schiffbauer, Max, Springfield, N. J. Mesh joint for pliers and like instruments. 2,611,288, Sept. 23.

Schmidt, Gottfried J., Pearl River, N. Y., assignor to American Machine & Foundry Company. Bowling pin respotting mechanism. 2,611,612, Sept. 23.

Schmidt, Gottfried J., Pearl River, N. Y., assignor to American Machine & Foundry Company. Bowling pin holding apparatus. 2,611,613, Sept. 23.

Schmidt, Max B.: *See*—
Jarrett, John W., Tangeman, and Schmidt.

Schmitz, Roger T., assignee: *See*—
Walls, Frederick M.

Schneider, Leon: *See*—
Haas, Otto, Schaedler, and Schneider.

Schneider, Nicholas M., Bayonne, and R. M. Dean, Westfield, N. J., assignors to Standard Oil Development Company. Formation of a sulfurized halogenated aliphatic hydrocarbon. 2,611,766, Sept. 23.

Schneidewind, Richard, Ann Arbor, assignor to Industrial Metal Abrasive Company, Jackson, Mich. Ball-peening and cleaning shot. 2,611,690, Sept. 23.

Schoen, André, Bangor, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Vat dye photoprints. 2,611,701, Sept. 23.

Schultz, Edward, Jr., Chicago, Ill. Machine tool. 2,611,173, Sept. 23.

Schultz, Thomas H.: *See*—
Owens, Harry S., and Schultz.

Schulz, Theodore R., Sylvania, Ohio, assignor to Packard Motor Car Company, Detroit, Mich. Power plant comprising a toroidal combustion chamber and an axial flow gas turbine with blade cooling passages therein forming a centrifugal air compressor. 2,611,241, Sept. 23.

Schur, Frederick P., Washington, D. C. Roly-poly toy. 2,611,214, Sept. 23.

Schutz, Ewald, assignor, by mesne assignments, to De Walt Inc., Lancaster, Pa. Wood sawing and cutting machine. 2,611,398, Sept. 23.

Schwarz, Peter, Los Angeles, Calif. Color-picture. 2,611,817, Sept. 23.

Schweizerische Lokomotiv- und Maschinenfabrik, assignee: *See*—
Sonderegger, Konrad.

Sciford, Clinton, Odebolt, Iowa. Automatic fuel gauge. 2,611,270, Sept. 23.

Scogin, Clifford A., Kansas City, Mo. Forced air flow unit air heating furnace. 2,611,359, Sept. 23.

Scott, Benjamin B., Schenectady, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Cam-actuated device. 2,611,847, Sept. 23.

Scott, Charles H., Westport, assignor to The Door Company, Stamford, Conn. Rake classifier and lubricating system therefor. 2,611,474, Sept. 23.

Scott, Charles H., Westport, assignor to The Door Company, Stamford, Conn. Skimmer mechanism for clarifiers. 2,611,489, Sept. 23.

Scott, Grady R., Baton Rouge, La., assignor to Standard Oil Development Company. Antitack agent. 2,611,751, Sept. 23.

Scovill, D. & H., Inc., assignee: *See*—
Porter, Philip W.

Seifried, Anton G., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanization of tires with high-frequency fields and apparatus therefor. 2,611,152, Sept. 23.

Seiler, Dayton A., assignor to M. H. Seiler, Elizabethton, Tenn. Detachable button for garments. 2,611,167, Sept. 23.

Seiler, Mollie H., assignee: *See*—
Seiler, Dayton A.

Selas Corporation of America, assignee: *See*—
Robinson, John W.

Selbie, James C.: *See*—
Berriman, John A., and Selbie.

Selby, James, Willesden, assignor to B. Elliott & Company Limited, London, England. Surface grinding machine. 2,611,220, Sept. 23.

Semegen, Stephen T., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Temporary protective coating and method of vulcanizing. 2,611,153, Sept. 23.

Serrell, Robert, Princeton, N. J., assignor to Radio Corporation of America. Television signal control system. 2,611,819, Sept. 23.

Servall Products, Inc., assignee: *See*—
Randall, Elwin E.

Servel, Inc., assignee: *See*—
Taylor, Robert S.

Shafer, Homer J., Mansfield, Ohio. Vessel and fluid propelling device. 2,611,321, Sept. 23.

Sharpless, Thomas K., Haverford, and E. S. Eichert, Jr., Springfield, assignors to Technitrol Engineering Company, Inc., Philadelphia, Pa. Magnetic data storage system. 2,611,813, Sept. 23.

Shawinigan Resins Corporation, assignee: *See*—
Bromley, William H., Jr.
Rudoff, Hyman.

Shawinigan Water and Power Company, The, assignee: *See*—
Eaton, Milton.

Shell Development Company, assignee: *See*—
Berriman, John A., and Selbie.
Calmels, Louis.
Good, George M., nad Greensfelder.
Thrower, Harold P.

Sherrill, Sidney A., Hickory, N. C. Tape cutter for spools. 2,611,431, Sept. 23.

Shevchik, Efim M., Orange, N. J. Button attachment for sewing machines. 2,611,332, Sept. 23.

Shore, William E., West New Brighton, N. Y., assignor to H. S. Forsberg, Shelton, Conn. Saw table for portable power driven reciprocating handsaws. 2,611,400, Sept. 23.

Silver, Martin: *See*—
Bailey, Robert S., and Silver.

Simon, Forrest C., assignor to The French Oil Mill Machinery Company, Piqua, Ohio. Gate control for filling columns. 2,611,465, Sept. 23.

Simons, Cal, Detroit, Mich. Combination spot and trouble light. 2,611,834, Sept. 23.

Simonsen, Peter H., Avon, N. J. Garment retaining means. 2,611,517, Sept. 23.

Simonsen, Peter H., Avon, N. J. Garment retaining means. 2,611,518, Sept. 23.

Simpson, Arthur W., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Dry cell with improved thermoplastic seal. 2,611,793, Sept. 23.

Simpson, Clarence E., Wilbraham, Mass., assignor to the United States of America as represented by the Secretary of War. Locking firearm barrels. 2,611,297, Sept. 23.

Sinclair Refining Company, assignee: *See*—
Coons, Edward A.
Johnson, Virgil A.

Singer Manufacturing Company, The, assignee: *See*—
Ritter, Herman.

Slater, Raymond E., New Rochelle, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Cup drawing apparatus. 2,611,475, Sept. 23.

Slaymaker, Frank H.: *See*—
Meeker, Willard F., and Slaymaker.

Šlechta, Jaroslav, assignor of one-half to Aviation Works, National Corporation, Prague, Czechoslovakia. Eccentric cyclic pitch control mechanism for rotors of aircraft. 2,611,441, Sept. 23.

Sloan & Company, assignee: *See*—
Guth, Julius.

Smallman, I., and Sons Company, assignee: *See*—
Smallman, Samuel J.

Smallman, Samuel J., Passaic, N. J., assignor to I. Smallman and Sons Company, New York, N. Y. Billfold with intermittently reinforced edge. 2,611,410, Sept. 23.

Smallpeice, Cosby D. P., Swanwick Shore, near Southampton, England. Trolely. 2,611,326, Sept. 23.

Smith, Elmer H., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn. Pressure-operated antibackflow device for cutting torches. 2,611,424, Sept. 23.

Smith, James M., Jr.: *See*—
Germann, Richard P., Hultquist, and Smith.

Smith, James M., Jr., North Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. N-(2-thiazolyl)-2-hydroxypyridine-5-sulfonamides. 2,611,770, Sept. 23.

Smith, Kline & French Laboratories, assignee: *See*—
Heming, Arthur E.

Smith, Oliver R., Fort Worth, Tex. Radiant heat welding equipment. 2,611,848, Sept. 23.

Smith, S., & Sons (England) Limited, assignee: *See*—
Meredith, Frederick W.

Smith Welding Equipment Corporation, assignee: *See*—
Smith, Elmer H.

Smith, William F., Wilmington, Del. Resilient closure for containers. 2,611,515, Sept. 23.

Smith, William F., Sr., Minneapolis, Minn. Steam locomotive injector attachment. 2,611,384, Sept. 23.

Snow, Howard C., Swampscott, E. F. Kelley, Melrose, and S. S. Sayward, Danvers, assignors to Consolidated Electric Lamp Company, Lynn, Mass. Method of and machine for making circular fluorescent lamps. 2,611,216, Sept. 23.

Société Anonyme des Anciens Etablissements Albaret, assignee: *See*—
Paramythioti, Jean M.

Solomon, Joseph, assignee: *See*—
Mayer, Martin E.

Somers, Frank J., Rockville Centre, N. Y., assignor to Radio Corporation of America. Pickup tube beam-interrupting circuit. 2,611,820, Sept. 23.

Sonderegger, Konrad, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Air-duct means for air-cooled internal-combustion engines. 2,611,346, Sept. 23.

Sooy, Brainard E., Middletown, and H. C. Fisher, Cincinnati, Ohio, assignors to The Gardner Board and Carton Co. Calendering mineral coated paper. 2,611,717, Sept. 23.

Soundscriber Corporation, The, assignee: *See*—
Runge, Frank E.

Sparrow, Hubert T.: *See*—
Crum, Stephen, and Sparrow.

Specialties Development Corporation, assignee: *See*—
Grant, Harry C., Jr.
Hannant, Theodore N.
Heizer, Edward J.

Speier, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Bis-phenylol silanes. 2,611,776, Sept. 23.

Speier, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Phenylol silanes and resins therefrom. 2,611,777, Sept. 23.

Speier, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Halophenoxysilanes. 2,611,778, Sept. 23.

Speier, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Trialkylsilylphenoxysilanes. 2,611,779, Sept. 23.

Speier, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Bis-trialkylsilylphenoxysilanes. 2,611,780, Sept. 23.

Speier, John L., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Triorganosilylphenoxysilanes. 2,611,781, Sept. 23.

Spence Engineering Company, Inc., assignee: *See*—
Spence, Paulsen.

Spence, Paulsen, Baton Rouge, La., assignor to Spence Engineering Company, Inc., Walden, N. Y. Pilot-operated valve. 2,611,218, Sept. 23.

Sperry Corporation, The, assignee: *See*—
Harcum, William M., and Bull.
White, Gifford E., Graef, and La Forge.

Sperry-Sun Well Surveying Company, assignee: *See*—
Kothny, Gottdank L.

Spindt, Roderick S., Gibsonia, and D. R. Stevens, Wilkinsburg, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Synthesis of esters of thioldimethylvaleric acid. 2,611,783, Sept. 23.

Spurr, Robert, Syracuse, N. Y., assignor to Ex-Cell-O Corporation, Detroit, Mich. Mechanism for charging containers. 2,611,525, Sept. 23.

Staatsbedrijf Der Posterijen, Telegrafie en Telefonie, assignee: *See*—
Van Duuren, Hendrik C. A.

Standard Electric Corporation, assignee: *See*—
Hatton, William.

Standard Oil Development Company, assignee: *See*—
Bartlett, Jeffrey H., Rudel, and Cyphers.
Schneder, Nicholas M., and Dean.
Scott, Grady R.
Yoder, Richard J.

Stanin, Theodore E.: *See*—
Dickey, Joseph B., and Stanin.

State Institutions of the State of Florida, Board of Commissioners, assignee: *See*—
Butler, George B., and Bunch.

Stavis, Gus: *See*—
Casabona, Anthony, and Stavis.

Steel and Alloy Tank Company, assignee: *See*—
Kulczycki, Karol.
Rinne, John, Ashton, Mallard, and Lake.

Steel, Frank R., Wilmette, Ill. Fishing lure. 2,611,205, Sept. 23.

Steinman, Robert, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Glass fibers coated with Werner type complex and making same. 2,611,718, Sept. 23.

Steins, Carleton K., Overbrook, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Ballasting system for locomotives. 2,611,325, Sept. 23.

Stelzer, William, Summit, N. J., assignor to Stoffels Seals Corporation, Tuckahoe, N. Y. Tag. 2,611,199, Sept. 23.

Stevens, Donald R.: *See*—
Spindt, Roderick S., and Stevens.

Stevens, René A., Antwerp, L. A. Van Der Auwera, Mortsel-Antwerp, and D. M. A. Van Goethem, Kontich, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Light-sensitive photographic element. 2,611,697, Sept. 23.

Stevenson, Henry J., Weston, Via Oamaru, New Zealand. Blower and air conduits for combines. 2,611,487, Sept. 23.

Stewart, Patterson O., assignee: *See*—
Agin, Julius.

Sticht, Glenn A., Missoula, Mont. Stovepipe damper. 2,611,543, Sept. 23.

Stigter, Willem H.: *See*—
Köhler, Jacob W. L., Jonkers, Stigter, and Liebe.

Stockburger, George W., Philadelphia, Pa. Die. 2,611,522, Sept. 23.

Stockton, Franklin T., Fort Worth, Tex. Fishing float. 2,611,211, Sept. 23.

Stockwell, Elmer L., Graybull, Wyo. Hydraulic dumping attachment for trucks. 2,611,641, Sept. 23.

Stoffel Seals Corporation, assignee: *See*—
Ashton, Ernest W.
Stelzer, William.

Storment, Joseph E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Positive closure plug valve. 2,611,576, Sept. 23.

Straka, John, Chicago, Ill. Blanket holder. 2,611,165, Sept. 23.

Strand, Andrew G., deceased; E. M. Strand, administratrix of said A. G. Strand, assignor, by mesne assignments, to E. M. Strand, Philadelphia, Pa. Ski and making the same. 2,611,623, Sept. 23.

Strand, Elsie M., administratrix, assignee: *See*—
Strand, Andrew G.

Streed, Clifford E., Minneapolis, Minn. Carburetor. 2,611,595, Sept. 23.

Strehlow, Walter F., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pump and motor hydraulic system and regulating apparatus therefor. 2,611,245, Sept. 23.

Strehlow, Walter F., and C. T. O'Harrow, Wauwatosa, and R. W. Johansen, West Allis, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Power lift means affording depth control and sequential raising and lowering of implements. 2,611,306, Sept. 23.

Strehlow, Walter F., Wauwatosa, and I. Kamlukin, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control linkage for hydraulic draft regulation of vehicle propelled implements. 2,611,307, Sept. 23.

Strehlow, Walter F., Wauwatosa, and I. Kamlukin, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pump. 2,611,319, Sept. 23.

Strohm, Edward J., Chicago, Ill. Fishing game. 2,611,617, Sept. 23.

Stromberg-Carlson Company, assignee: *See*—
Meeker, Willard F., and Slaymaker.

Stutzke, Robert E.: *See*—
Preising, William J., and Stutzke.

Sudmeier, Gus, Torrance, Calif. Water or vapor injector for internal-combustion engines. 2,611,345, Sept. 23.

Sultzaberger, James A.: *See*—
Rawlins, Albert L., and Sultzaberger.

Sun Oil Company, assignee: *See*—
White, Chester N.

Sundstrand Machine Tool Co., assignee: *See*—
Wahlmark, Gunnar A.

Superior Steel Products Corp., assignee: *See*—
Janiszewski, Kasimir.

Sutton, John C. and W. V., assignors to Housewares, Inc., Rockford, Ill. Baby weighing scale. 2,611,604, Sept. 23.

Sutton, William V.: *See*—
Sutton, John C. and W. V.

Svenska Rotor Maskiner Aktiebolag, assignee: *See*—
Åhlén, Karl G., and Ödman.

Swift & Company, assignee: *See*—
Luce, Stewart B.

Swindin, Norman, London, England. Submersible burner. 2,611,362, Sept. 23.

Talley, Chester B., Smackover, Ark. Valve. 2,611,388, Sept. 23.

Tallman, Arthur F., Eugene, Oreg. Tape dispensing device. 2,611,432, Sept. 23.

Tally, Carl E., Cleburne, Tex. Automatic water cutoff and drain. 2,611,383, Sept. 23.

Tangeman, Russell L.: *See*—
Jarrett, John W., Tangeman, and Schmidt.

Tata, Domenic P.: *See*—
King, Etta E., and Tata.

Taylor, Charles R., Scott City, Kans. Dirt tray for air filters. 2,611,447, Sept. 23.

Taylor, Harry E., assignor to Baltimore Biological Laboratory, Baltimore, Md. Apparatus for filling ampoules. 2,611,524, Sept. 23.

Taylor, Robert S., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Gas range. 2,611,358, Sept. 23.

Taylor, William J., J. H. Worsham, and J. L. Davis, Oakland, Calif. Highway sign. 2,611,203, Sept. 23.

Technitrol Engineering Company, Inc., assignee: *See*—
Sharpless, Thomas K., and Eichert.

Teletronics Laboratory, Inc., assignee: *See*—
Richards, George F.

Tennessee Corporation, assignee: *See*—
Bellinger, Burdette W.

Testi, Nicholas, Boston, Mass., assignor to The Gillette Company. Blade magazine for safety razors. 2,611,176, Sept. 23.

Theis, Irene H., Denver, Colo. Mold for forming plaques. 2,611,170, Sept. 23.

Thomas, Georges A., Paris, France. Steering mechanism for tractors. 2,611,442, Sept. 23.

Thomas, Peter, Seattle, Wash. Tandem axle spring mounting. 2,611,626, Sept. 23.

Thompson, Chester R., Richmond, Calif., assignor to the United States of America as represented by the Secretary of Agriculture. Production of stabilized forage crops. 2,611,703, Sept. 23.

Thompson, John E., Chicago, Ill. Distillation apparatus for refining fats and oils. 2,611,741, Sept. 23.

Thompson Products, Inc., assignee: *See*—
Anderson, David E.

Thompson, Thomas R., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic emulsions containing unsymmetrical tetranuclear cyanine dyes. 2,611,695, Sept. 23.

Thomson Machine Company, assignee: *See*—
Sawyer, Hilon W., and Schellenberger.

Thorpe, Ernest H. C., Kew Gardens, assignor to C.A.V. Limited, London, England. Electric starting motor for internal-combustion engines. 2,611,274, Sept. 23.

Thrower, Harold P., Odessa, Tex., assignor to Shell Development Company, Emeryville, Calif. Pipe marking device. 2,611,183, Sept. 23.

Thursack, Julius C., Buffalo, N. Y. Mechanic's shop work layout tool of the head and pivoted blade type. 2,611,185, Sept. 23.

Tip-Top Products Company, assignee: *See*—
Hoffmann, Ernest, and Gresham.

Toffemire, Benjamin F., Lafayette, Calif. Anatomical contact-forming dental matrix band for anterior teeth. 2,611,182, Sept. 23.

Toland, Wayne G., Canton, Ill, assignor to International Harvester Company. Tractor-mounted implement. 2,611,304, Sept. 23.

Toorell, Sture, and E. Grip, assignors to Aktiebolaget Atvidaberg Facit, Atvidaberg, Sweden. Short-cut multiplying machine. 2,611,539, Sept. 23.

Topa, John W.: *See*—
Whipple, Jack Van H., and Topa.

Torrelli, Frank, Buffalo, N. Y. Curb form. 2,611,169, Sept. 23.

Torrington Manufacturing Company, The, assignee: *See*—
Sampatacos, Peter M.

Toth, Louis, Flushing, N. Y. Storm window. 2,611,156, Sept. 23.

Tramm, Heinrich, Speldorf, assignor to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany. Producing a compound fertilizer. 2,611,691, Sept. 23.

Trane Company, The, assignee: *See*—
Labus, Otto A.

Transportation Sash Company, Inc., assignee: *See*—
Price, Joseph W.

Trico Products Corporation, assignee: *See*—
Rappl, Anton.

Trimble, Esther K., Piedmont, and C. R. Yost, Oakland, Calif. Wardrobe luggage having separable case portions. 2,611,463, Sept. 23.

Troche, Herman J., Fairview Village, and J. H. Holan, Rocky River, assignors to J. H. Holan Corporation, Cleveland, Ohio. Pole derrick. 2,611,580, Sept. 23.

Turnbull, Glen O., Rock Island, Ill., assignor to International Harvester Company. Adjustable pulley. 2,611,278, Sept. 23.

Turner, Charles R., Enfield, assignor to Proctor Electric Company, Philadelphia, Pa. Electric blanket control. 2,611,855, Sept. 23.

Turner, Thomas W., Newport News, Va. Portable broiling stove. 2,611,357, Sept. 23.

Turton, Cecil B.: *See*—
Hammerly, Herman J., Turton and Salomone.

Tveter, Elmer C., Walnut Creek, Calif., assignor to The Dow Chemical Company, Midland, Mich. Frothing agents for flotation of ores. 2,611,485, Sept. 23.

Tyler, Leslie J., Midland County, assignor to Dow Corning Corporation, Midland, Mich. Diphenylsiloxane copolymers and preparation thereof. 2,611,774, Sept. 23.

Underwood, Julius E., and A. Hirsch, Painesville, assignors to Diamond Alkali Company, Cleveland, Ohio. Brake lining and making same. 2,611,727, Sept. 23.

Union Carbide and Carbon Corporation, assignee: *See*—
Lobosco, Roscoe R.

United Shoe Machinery Corporation, assignee: *See*—
Brophy, John J., and Newton.
Fossa, Joseph.
Gulbrandsen, Helge.
James, Cyril H., and Ricks.
Olson, Arthur R., and Gelewitz.

United States Rubber Company, assignee: *See*—
Buckley, John L.
Ladd, Elbert C.

U. S. Slicing Machine Company, Inc., assignee: *See*—
Foster, James L.

United States Steel Company, assignee: *See*—
Kirk, Lowell M.
Mowat, John F.

Universal Oil Products Company, assignee: *See*—
Bloch, Herman S.
Geiser, Edward M.
Geiser, Edward M., and de Rosset.
Haensel, Vladimir.
Webb, Glenn M., and Moehl.

Upjohn Company, The, assignee: *See*—
Ott, Arnold C.

Utterström, Sven Ludvig, Boden, Sweden. Rack-knapsack. 2,611,519, Sept. 23.

Vadner, Samuel, Cynwyd, Pa. Container. 2,611,528, Sept. 23.

Van Cleeff, Robert S., Memphis, Tenn., assignor to The Fashion Curtain Company. Elastic tied back curtain. 2,611,428, Sept. 23.

Van Der Auwera, Laurent A.: *See*—
Stevens, René A., Van Der Auwera, and Van Goethem.

Vanderberg, Glen C., assignor to Clark Equipment Company, Buchanan, Mich. Axle construction. 2,611,656, Sept. 23.

Vanderlip, Edward G., Silver Spring, Md., and E. Daland, Wallingford, Pa., assignors, by mesne assignments, to Piasecki Helicopter Corporation, Morton, Pa. Helicopter rotor. 2,611,344, Sept. 23.

Van Duuren, Hendrik C. A., Wassenaar, assignor to Staatsbedrijf Der Posterijen, Telegrafie en Telefonie, The Hague, Netherlands. Telegraph receiving apparatus. 2,611,824, Sept. 23.

Van Dyck, Kenneth A., and G. J. Koch, assignors to Eastman Kodak Company, Rochester, N. Y. Machine for mounting a flexible film on glass for making lantern slides. 2,611,720, Sept. 23.

Van Goethem, Désiré M. A.: *See*—
Stevens, René A., Van Der Auwera, and Van Goethem.

Van Ham, Ernest E., assignor to Jerguson Gage & Valve Company, Somerville, Mass. Liquid level gauge. 2,611,271, Sept. 23.

Van Weenen, Franciscus L.: *See*—
De Brey, Heinrich, and van Weenen.

Van Weenen, Franciscus L., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Multicylinder hot gas reciprocating piston engine of the double-acting type. 2,611,235, Sept. 23.

Varcoe, Maurice, assignor to Cornwall Mills Limited, Par Harbour, England. Apparatus for classifying granular substances. 2,611,486, Sept. 23.

Vaughn, Kenneth J., Middletown, Va. Hydraulic disk brake. 2,611,453, Sept. 23.

Vibert, Richard, Oloron Sainte-Marie, France. Fish egg hatching device. 2,611,337, Sept. 23.

Vogelaar, Bernard F.: *See*—
Paul, Carl H., and Vogelaar.

Voigt, Johnston S.: *See*—
Kishline, Floyd F., Phelps, and Voigt.

Wade, Jack R., Jr.: *See*—
Sargeant, James A., and Wade.

Wahle, Adolph, assignor of one-half to W. H. Martin, Davenport, Iowa. Rotary pump with radial inlet and outlet. 2,611,322, Sept. 23.

Wahlmark, Gunnar A., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Pump. 2,611,318, Sept. 23.

Wallingford, Vernon H., Ferguson, assignor to Mallinckrodt Chemical Works, St. Louis, Mo. 3-carboxylic acylamino-2,4,6-triiodo benzoic acids and the ethyl ester and nontoxic salts. 2,611,786, Sept. 23.

Walls, Frederick M., Sun Valley, assignor, by mesne assignments, to R. T. Schmitz, Altadena, Calif. Oil and oil filter condition indicator. 2,611,448, Sept. 23.

Walsh, Philip J., San Francisco, Calif. Multivibrator and impulse generator. 2,611,890, Sept. 23.

Walters, Robert E., assignor to Allen-Bradley Company, Milwaukee, Wis. Automatic starting electrical control circuit for engine driven electric power generators. 2,611,877, Sept. 23.

Walton, Gordon H. F., assignor to "Diamond H" Switches Limited, London, England. Thermostatic control system for ovens. 2,611,850, Sept. 23.

War, United States of America as represented by the Secretary of, assignee: *See*—
Africano, Alfred.
Simpson, Clarence E.
Wilzbach, Kenneth E.

Washburn, Harold W., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Electron source. 2,611,875, Sept. 23.

Watson, Walter J., and W. J., Jr., Washington, D. C. Simulated basketball game. 2,611,615, Sept. 23.

Watson, Walter J., Jr.: *See*—
Watson, Walter J., and W. J., Jr.

Watts, Ivor B., Nutley, N. J. Hanger in strip form. 2,611,492, Sept. 23.

Wayman, Albert J., East Palestine, Ohio. Removable plug for openings in meter casings. 2,611,507, Sept. 23.

Weatherhead Company, The, assignee: *See*—
Johnson, Andrew G.

Weaver, James C., Richmond, Va. Barrel stacking device. 2,611,495, Sept. 23.

Webb, Glenn M., Western Springs, and R. W. Moehl, Congress Park, assignors to Universal Oil Products Company, Chicago, Ill. Hydrocarbon conversion catalyst and process. 2,611,738, Sept. 23.

Webb, James H., Montreal West, Quebec, Canada, assignor, by mesne assignments, to Jenkins Bros., Bridgeport, Conn. Quick-acting gate valve. 2,611,575, Sept. 23.

Webster, Clifford L., assignor to Aluminum Air Seal Manufacturing Company, Youngstown, Ohio. Corner construction for metal doors and the like. 2,611,633, Sept. 23.

Webster, William M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Amplifier gas tube. 2,611,880, Sept. 23.

Webster, William M., Jr., Princeton, and G. W. Bain, Jr., New Brunswick, N. J., assignors to Radio Corporation of America. Amplifier gas tube. 2,611,884, Sept. 23.

Weeks, Willie G., Port Tampa City, Fla. Food dicer. 2,611,404, Sept. 23.

Weighton, Donald, assignor to Pye Limited, Cambridge, England. Arrangement for suppressing impulsive interference in the reception of amplitude modulated signals. 2,611,823, Sept. 23.

Weiss, Henry G., Cincinnati, Ohio. Motion-picture projector attachment. 2,611,293, Sept. 23.

Wellner, Reinhardt M., Philadelphia, Pa. Twisted string toy. 2,611,212, Sept. 23.

Welsh, Robert J., Rugby, assignor to The English Electric Company Limited, London, England. Starting device for free piston internal-combustion operated compressors or gas generators. 2,611,233, Sept. 23.

Westinghouse Electric Corporation, assignee: *See*—
Reynolds, Delos J.

Whipple, Jack V., New York, and J. W. Topa, Jamaica, N. Y., assignors to B. E. Bostwick, South Orange, N. J. Pocket implement. 2,611,178, Sept. 23.

White, Chester N., Ridley Park, assignor to Sun Oil Company, Philadelphia, Pa. Thermally hardened porous solid. 2,611,750, Sept. 23.

White, Gifford E., Hempstead, R. L. Graef, Brooklyn, and C. J. La Forge, Hempstead, N. Y., assignors to The Sperry Corporation. Parallax correction circuit. 2,611,537, Sept. 23.

Whitin Machine Works, assignee: *See*—
Cravens, Benjamin B.
Keene, Lester E.

Wiancko Engineering Company, assignee: *See*—
Wiancko, Thomas H.

Wiancko, Thomas H., Altadena, Calif., assignor to Wiancko Engineering Company. Force gauge. 2,611,266, Sept. 23.

Wiley, William R., Phoenix, Ariz. Deformable sheet metal fastening clip. 2,611,166, Sept. 23.

Williams, Victor G., assignor, by mesne assignments, to Delamere & Williams Company, Limited, Toronto, Ontario, Canada. Machinery for fabricating bags in various sizes. 2,611,225, Sept. 23.

Williamson, Thomas F. M., San Francisco, assignor to A. H. Isenberg, Woodside, Calif. Insulated pipe anchor. 2,611,567, Sept. 23.

Willits, Harry H., Louisville, Ky. Grease shield for skillets. 2,611,510, Sept. 23.

Willoughby, Eric O., London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Aerial system. 2,611,869, Sept. 23.

Wilson, Charles V.: *See*—
Allen, Charles F. H., and Wilson.

Wilson & Company, Inc., assignee: *See*—
Hodson, George F., and Campbell.

Wilson, John M., Glasgow, Scotland. Mold for molding concrete ties. 2,611,171, Sept. 23.

Wilzbach, Kenneth E., Chicago, Ill., assignor to the United States of America as represented by the Secretary of War. Chemical indicator for alkyl-chloroarsines. 2,611,748, Sept. 23.

Winborn, Byron R., Jr., and D. E. Beduhn, assignors to Manitowoc Shipbuilding Company, Manitowoc, Wis. Pressure tank cover construction. 2,611,505, Sept. 23.

Wingfoot Corporation, assignee: *See*—
Borders, Alvin M.
Carter, Raymond S., and Dorf.
George, Everett D.
Goulding, Albert, Jr.
Winkvist, Carl J., Mattapan, Mass. Printer's gauge. 2,611,315, Sept. 23.
Wissmiller, Ivan L., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Preventing evaporation loss and apparatus therefor. 2,611,511, Sept. 23.
Witt, Joshua C., Chicago, Ill. Wet process for Portland cement manufacture. 2,611,714, Sept. 23.
Wittenberg, Sigbert L., Belle Harbor, N. Y. Film splicer. 2,611,724, Sept. 23.
Woock, Herbert J., Alhambra, Calif. Composition for hard facing. 2,611,710, Sept. 23.
Wood, Gar, Industries, Inc., assignee: *See*—
Gwinn, Joseph M., Jr.
Woodruff & Edwards, Inc., assignee: *See*—
Resan, Stephen F.
Woods, Ridley, Long Beach, Calif. Portable oil well derrick. 2,611,455, Sept. 23.
Worsham, John H.: *See*—
Taylor, William J., Worsham, and Davis.
Wuischpard, Lucien C., Long Hill, assignor to Casco Products Corporation, Bridgeport, Conn. Cyclometer clock alarm. 2,611,232, Sept. 23.
Wyeth Incorporated, assignee: *See*—
Bernhart, Finn W., and Hassinen.
Yardney International Corp., assignee: *See*—
André, Henry G.
Yates, James G., Cambridge, England. Electrical measurement of physical effects, for example mechanical strains. 2,611,811, Sept. 23.
Yellin, Morris, assignor to Bernard Edward Co., Chicago, Ill. Plastic bird cage. 2,611,338, Sept. 23.
Yewdall, George E.: *See*—
Lawrence, Howard C., and Yewdall.
Yoder, Clarence B., Indianapolis, Ind. Hose end holder. 2,611,568, Sept. 23.
Yoder, Richard J., Elizabeth, N. J., assignor to Standard Oil Development Company. Fluid distributor for vessels. 2,611,685, Sept. 23.
Yost, Charles R.: *See*—
Trimble, Esther K., and Yost.
Young, John C., Pittsburgh, Pa. Light supporting means. 2,611,573, Sept. 23.
Zaleski, John F., Queens Village, N. Y., assignor to General Precision Laboratory Incorporated. Measuring apparatus. 2,611,804, Sept. 23.
Zamboni, William E., Longview, Wash., and K. E. Luger, assignors to K. E. and C. P. Luger, a partnership doing business as Kenneth E. Luger Co., Minneapolis, Minn. Garment-supporting fixture. 2,611,520, Sept. 23.
Zappert, Robert H.: *See*—
Brunner, August H., Jr., and Zappert.
Zappert, Robert H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Regeneration of exhausted silver bleaching solutions. 2,611,699, Sept. 23.
Zenith Radio Corporation, assignee: *See*—
Adler, Robert.
Zirin, Maxwell J., Long Island City, N. Y. Timing angle indicator for automotive engine distributors. 2,611,837, Sept. 23.
Zucker, Jacques, Zurich, Switzerland. Apparatus for carbonation of a liquid. 2,611,597, Sept. 23.

LIST OF DESIGN INVENTIONS

Automobile door visor. J. P. and J. G. Groboski. 167,797, Sept. 23.
Automobile grille panel. M. C. Mawhinney. 167,800, Sept. 23.
Base for table lamps. E. Schwarz. 167,814–15, Sept. 23.
Bench. A. H. Schaefer. 167,811, Sept. 23.
Bottle carrier, Collapsible. W. A. Ringler. 167,808, Sept. 23.
Bulb, Electric. A. and M. Yanks. 167,819, Sept. 23.
Case, Piano. W. Millington and W. M. Day. 167,804, Sept. 23.
Chain for a necklace or similar article, Link. M. Chernow. 167,795–6, Sept. 23.
Coffee maker. S. J. Budlane and R. Dusek. 167,794, Sept. 23.
Fabric, Textile. D. Scher. 167,812, Sept. 23.
Fishhook shield. R. A. Miller. 167,803, Sept. 23.
Flowerpot cover or the like, Plastic. S. W. Brunner. 167,793, Sept. 23.
Helmet. G. T. Adams. 167,789–91, Sept. 23.
Holder or similar article, Napkin. N. W. Roop. 167,809–10, Sept. 23.
Lamp. A. F. Steeber. 167,816, Sept. 23.
Rack, Merchandise display. J. Zel and R. W. Latimer. 167,820, Sept. 23.
Railway car numbering sign. F. P. Brown and M. G. Marshall. 167,792, Sept. 23.
Scale, Weighing. M. A. Weckerly. 167,818, Sept. 23.
Stocking, Lady's. W. Mueller. 167,805–6, Sept. 23.
Stocking, Lady's. O. E. Schletter. 167,813, Sept. 23.
Stocking, Lady's ornamented. E. Troy. 167,817, Sept. 23.
Toy, Pull. A. T. Porter. 167,807, Sept. 23.
Trail mower. G. B. Hill and M. J. Happe. 167,798, Sept. 23.
Wheel cover or similar article. G. A. Lyon. 167,799, Sept. 23.
Wheel trim. C. A. McLeod. 167,801–2, Sept. 23.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adhering fabric to rubber. C. W. Brees. 2,611,721, Sept. 23.
Adjustable accordion air cushion spring. G. P. Needy. 2,611,607, Sept. 23.
Adjustable pulley. G. O. Turnbull. 2,611,278, Sept. 23.
Aerial system. E. O. Willoughby. 2,611,869, Sept. 23.
Air and erosion or corrosion eliminator device. W. M. Kennedy and B. E. Meurk. 2,611,446, Sept. 23.
Aircraft adjustable lift-propeller cradle. E. V. Sanders. 2,611,554, Sept. 23.
Aircraft with fuselage lifting channels, Jet-propelled. W. R. Custer. 2,611,555, Sept. 23.
Aircraft with lift channels, Jet-propelled. W. R. Custer. 2,611,556, Sept. 23.
Air-duct means for air-cooled internal-combustion engines. K. Sonderegger. 2,611,346, Sept. 23.
Airplane control system. F. W. Ross. 2,611,563, Sept. 23.
Airplane warning system. L. M. Greene. 2,611,810, Sept. 23.
Air treatment device. W. H. Haulenbeek and W. F. Sanford. 2,611,679, Sept. 23.
Alarm, Burglar. E. T. Counts and H. Breitenbucher. 2,611,334, Sept. 23.
Alarm, Cyclometer clock. L. C. Wuischpard. 2,611,232, Sept. 23.
Album photo holder or mounting. R. E. Herrick. 2,611,369, Sept. 23.
Alkyl α-fluoroacetoxy acrylates, and polymers thereof. J. B. Dickey and T. E. Stanin. 2,611,761, Sept. 23.
Alnico ingot from manufacturing wastes, Production of. M. Pesses. 2,611,692, Sept. 23.
Alpha olefins, Production of. G. M. Good and B. S. Greensfelder. 2,611,789, Sept. 23.
Alumina-platinum-combined halogen catalyst, Preparation of an. V. Haensel. 2,611,749, Sept. 23.
Ammunition. P. P. Alexander. 2,611,316, Sept. 23.
Amphoteric vinyl interpolymers. G. D. Jones. 2,611,763, Sept. 23.
Amplifier gas tube. W. M. Webster, Jr. 2,611,880, Sept. 23.
Amplifier gas tube. W. M. Webster, Jr., and G. W. Bain, Jr. 2,611,884, Sept. 23.
Amplitude comparison circuit. P. D. Heath. 2,611,861, Sept. 23.
Anatomical contact-forming dental matrix band for anterior teeth. B. F. Tofflemire. 2,611,182, Sept. 23.
Antenna, Broadband helical. A. E. Marston and M. D. Adcock. 2,611,868, Sept. 23.
Antenna, Cylindrical. A. Alford. 2,611,866, Sept. 23.
Antenna detuning system. A. Alford and H. Jasik. 2,611,871, Sept. 23.
Antenna mast assembly, Retractile. G. E. Bader. 2,611,456, Sept. 23.
Antenna, Slotted winged cylindrical. A. Alford. 2,611,864, Sept. 23.
Antenna, Slotted winged cylindrical. A. Alford. 2,611,867, Sept. 23.
Antenna system, Directive. A. G. Clavier. 2,611,870, Sept. 23.
Antenna, Transversely gapped cylindrical. A. Alford. 2,611,865, Sept. 23.
Antibackflow device for cutting torches, Pressure-operated. E. H. Smith. 2,611,424, Sept. 23.
Antibiotic preparations. A. L. Rawlins and J. A. Sultzaberger. 2,611,731, Sept. 23.
Anticheating device. J. C. Koci. 2,611,839, Sept. 23.
Antitack agent. G. R. Scott. 2,611,751, Sept. 23.
Apertured ears on recessed lamp for receiving supporting rods. I. M. Kirlin. 2,611,502, Sept. 23.
Apparatus and method for performing sheeting or coating operations on or with plastic material. A. Goulding, Jr. 2,611,150, Sept. 23.
Apparatus for applying pressure to shoe bottoms. H. Gulbrandsen. 2,611,143, Sept. 23.
Apparatus for carbonation of a liquid. J. Zucker. 2,611,597, Sept. 23.
Apparatus for classifying granular substances. M. Varcoe. 2,611,486, Sept. 23.
Apparatus for coating coiled filaments. L. E. Dilts. 2,611,335, Sept. 23.
Apparatus for compacting a refractory medium in a bung of chinaware. R. H. Pass and W. A. Johnson. 2,611,589, Sept. 23.
Apparatus for cutting almonds to pieces of miscellaneous sizes. D. R. Bailey. 2,611,405, Sept. 23.
Apparatus for filling ampoules. H. E. Taylor. 2,611,524, Sept. 23.
Apparatus for injecting fluids into well bores. R. H. Carr and K. A. Covell. 2,611,436, Sept. 23.
Apparatus for making expanded sheet material. C. B. Rowe. 2,611,298, Sept. 23.
Apparatus for making transmission belts. R. S. Carter and M. L. Dorf. 2,611,151, Sept. 23.
Apparatus for precision grinding. C. T. Rhodes. 2,611,221, Sept. 23.
Apparatus for separating immiscible liquids. J. W. Robinson. 2,611,490, Sept. 23.
Apparatus for spinning, twisting, and winding yarn. J. J. Gannon and C. P. Powell. 2,611,229, Sept. 23.
Apparatus for testing packing materials. R. W. Justice. 2,611,263, Sept. 23.
Apparatus for the manufacture of glass articles. D. Couquelet. 2,611,217, Sept. 23.
Apparatus for transferring an emulsion layer from a perforated film strip. J. G. Capstaff. 2,611,686, Sept. 23.
Apparatus for treating yarn. E. D. Bolinger and R. G. Berner. 2,611,172, Sept. 23.
Arithmetic fraction trainer. K. V. Davis. 2,611,193, Sept. 23.
Arm and tension link hoist for dump bodies. J. M. Gwinn, Jr. 2,611,642, Sept. 23.
Arrangement for suppressing impulsive interference in the reception of amplitude modulated signals. D. Weighton. 2,611,823, Sept. 23.
Arrow guard. J. W. Harvey. 2,611,354, Sept. 23.
Article for polishing. P. W. Porter. 2,611,689, Sept. 23.
Article sorting device. H. W. Sawyer and O. Schellenberger. 2,611,484, Sept. 23.
Artificial bait. C. A. Clark. 2,611,210, Sept. 23.
Arylhalosilanes, Production of. A. J. Barry. 2,611,775, Sept. 23.
Audiphone. J. M. Hazard. 2,611,829, Sept. 23.
Automatic control system. F. W. Meredith. 2,611,559, Sept. 23.
Automatic cutoff and relief valve for tires. J. A. Pinchev. 2,611,385, Sept. 23.
Automatic foam compound proportioning means for fire extinguishers. J. Faulkner. 2,611,439, Sept. 23.
Automatic fuel gauge. C. Sciford. 2,611,270, Sept. 23.
Automatic low water gas shutoff. R. C. Possley. 2,611,273, Sept. 23.
Automatic pilot for aircraft. W. M. Harcum and G. Bull. 2,611,560, Sept. 23.
Automatic starting electrical control circuit for engine driven electric power generators. R. E. Walters. 2,611,877, Sept. 23.
Automatic valve. L. Calmels. 2,611,389, Sept. 23.
Automatic water cutoff and drain. C. E. Tally. 2,611,383, Sept. 23.
Automobile door buffer. A. Neslund. 2,611,637, Sept. 23.
Awning, Rigid metal. M. D. and F. E. Moore. 2,611,157, Sept. 23.
Axle construction. G. C. Vanderberg. 2,611,656, Sept. 23.
Ball bearing textile spindle. L. E. Keene. 2,611,231, Sept. 23.
Ball-peening and cleaning shot. R. Schneidewind. 2,611,690, Sept. 23.
Ballasting system for locomotives. C. K. Steins. 2,611,325, Sept. 23.
Barrel stacking device. J. C. Weaver. 2,611,495, Sept. 23.
Base coated with a high styrene-butadiene copolymer. A. M. Borders. 2,611,719, Sept. 23.
Base for antenna masts, Adjustable. H. O. Landis. 2,611,566, Sept. 23.
Bathing device for animals, Portable. H. P. Paris. 2,611,341, Sept. 23.
Battery heater. W. Kerby. 2,611,853, Sept. 23.
Bearing: *See*—
Multirow roller bearing. Self-aligning bearing.
Bearing construction. C. F. Derbyshire. 2,611,665, Sept. 23.
Bearing for spinning and twisting spindles. Plural-part. W. Hoffmann. 2,611,666, Sept. 23.
Bearing unit, Sealed sleeve. E. A. Lampe. 2,611,667, Sept. 23.
Bearings, Making. R. A. Schaefer, J. F. Cerness, and W. H. Morrison. 2,611,163, Sept. 23.
Bedclothes lifting and supporting device. R. T. Ecklund. 2,611,139, Sept. 23.
Bed spring. R. Riell. 2,611,137, Sept. 23.
Bee feeder. J. W. Goble. 2,611,140, Sept. 23.
Beet topper. J. Morkoski. 2,611,228, Sept. 23.

Belt, Colostomy. L. S. Mann. 2,611,364, Sept. 23.
Billfold with intermittently reinforced dege. S. J. Smallman. 2,611,410, Sept. 23.
Bis-phenylol silanes. J. L. Speier, Jr. 2,611,776, Sept. 23.
Bis-trialkyls.lylphenoxysilanes. J. L. Speier, Jr. 2,611,780, Sept. 23.
Blade magazine for safety razors. N. Testi. 2,611,176, Sept. 23.
Blanket holder. J. Straka. 2,611,165, Sept. 23.
Block: *See*—
Ventilating wall block.
Blower and air conduits for combines. H. J. Stevenson. 2,611,487, Sept. 23.
Board: *See*—
Portable sectional ironing board.
Bobbin battery indexing mechanism. K. Kulczycki. 2,611,394, Sept. 23.
Body supporting mechanism for occupants of high-speed conveyances. W. Exton, Jr. 2,611,562, Sept. 23.
Boiler: *See*—
Electric boiler.
Borehole apparatus centering guide. G. L. Kothny. 2,611,664, Sept. 23.
Bowling alley backstop mechanism. G. E. Hagquist. 2,611,614, Sept. 23.
Bowling pin holding apparatus. G. J. Schmidt. 2,611,613, Sept. 23.
Bowling pin respotter. M. Patterson. 2,611,611, Sept. 23.
Bowling pin respotting mechanism. G. J. Schmidt. 2,611,612, Sept. 23.
Box: *See*—
Conduit junction box. Wall box.
Lunch box.
Bracket and latch for oven doors, Combined. V. A. Benson. 2,611,360, Sept. 23.
Brake: *See*—
Hydraulic disk brake.
Brake lining and making same. J. E. Underwood and A. Hirsch. 2,611,727, Sept. 23.
Bread feeding machine. E. A. Rudolph. 2,611,470, Sept. 23.
Breast supporter and former. J. Copenhagen. 2,611,129, Sept. 23.
Building block construction. E. L. Preston. 2,611,261, Sept. 23.
Bundling choker. W. A. Meighan. 2,611,638, Sept. 23.
Burner: *See*—
Combustion turbine burner. Submersible burner.
Button attachment for sewing machines. E. M. Schevchik. 2,611,332, Sept. 23.
Button for garments, Detachable. D. A. Seiler. 2,611,167, Sept. 23.
Cage, Plastic bird. M. Yellin. 2,611,338, Sept. 23.
Calculating apparatus, Electrical. W. Hatton. 2,611,538, Sept. 23.
Calculating machine, Digital. J. E. Barrow. 2,611,536, Sept. 23.
Calendering mineral coated paper. B. E. Sooy and H. C. Fisher. 2,611,717, Sept. 23.
Cam-actuated device. B. B. Scott. 2,611,847, Sept. 23.
Cam operated coupling. R. Rabe. 2,611,464, Sept. 23.
Candle. W. B. Byrnes. 2,611,254, Sept. 23.
Carburetor. C. E. Streed. 2,611,595, Sept. 23.
Carburetor, Two-fuel. L. D. Boyce. 2,611,593, Sept. 23.
Carrier: *See*—
Vacuum cleaner carrier.
Carrier for chimed cans. F. W. Hackman and W. J. Poole. 2,611,521, Sept. 23.
Carrier tray for gear hardening apparatus, Removable. D. J. Reynolds. 2,611,473, Sept. 23.
Carton for protcetion of fragile articles, Integral. J. F. Currivan. 2,611,529, Sept. 23.
Carton, Portable display. J. V. Fisher. 2,611,527, Sept. 23.
Carton with handhole reinforcing and flap securing clip, Shipping. W. C. George. 2,611,530, Sept. 23.
Case: *See*—
Key case.
Catalyst support. R. E. Heffner. 2,611,684, Sept. 23.
Catapult for launching model airplanes. N. D. Ashwood. 2,611,355, Sept. 23.
Cathode grid assembly. E. Pohle. 2,611,676, Sept. 23.
Cellulose esters, Production of. J. J. Allen and J. A. Hawkes. 2,611,767, Sept. 23.
Centering mechanism for aircraft controls. L. E. May. 2,611,561, Sept. 23.
Centrifugal operating device. W. A. Rosebraugh. 2,611,602, Sept. 23.
Chair: *See*—
Reclining self-adjusting chair. Toilet chair.
Chair and cot, Convertible reclining. L. Antelman. 2,611,418, Sept. 23.
Chair back. J. H. Blum. 2,611,423, Sept. 23.
Chair for theaters and the like, Receding. E. S. Diehl. 2,611,420, Sept. 23.
Chemical indicator for alkyl-chloroarsines. K. E. Wilzbach. 2,611,748, Sept. 23.
Cigarette case and implement, Combination. M. Lavanish. 2,611,480, Sept. 23.
Circuit: *See*—
Amplitude comparison circuit. Pickup tube beam-interrupting circuit.
Parallax correction circuit.
Circuit breaker. L. M. Applegate. 2,611,846, Sept. 23.
Circuit breaker control. A. Conangla. 2,611,796, Sept. 23.
Claw pulldown mechanism. J. S. Chandler. 2,611,292, Sept. 23.
Cleaner: *See*—
Windshield cleaner.
Clinometer. F. V. Bell. 2,611,188, Sept. 23.
Clip: *See*—
Deformable sheet metal fastening clip.
Clip storing and dispensing device. H. W. Kruse. 2,611,674, Sept. 23.
Clothes-washing machine. R. R. Candor. 2,611,256, Sept. 23.
Coating foods with pectinate or pectate films. H. S. Owens and T. H. Schultz. 2,611,708, Sept. 23.
Coin chute mechanism. D. C. Rockola. 2,611,468, Sept. 23.
Collapsible building. D. D. Arehart and R. T. Dittmer. 2,611,454, Sept. 23.
Collector or power take-off plug for bus bar duct systems. H. J. Hammerly, C. B. Turton and R. A. Salomone. 2,611,801, Sept. 23.
Color-picture. P. Schwarz. 2,611,817, Sept. 23.
Colored photographic layer. J. J. Jennen. 2,611,698, Sept. 23.
Combination lock. G. E. Berry and G. C. Ridings. 2,611,259, Sept. 23.
Combination neutral pressure point adjuster and draft diverter. C. B. Lockhart. 2,611,361, Sept. 23.
Combination spot and trouble light. C. Simons. 2,611,834, Sept. 23.
Combined magnetic and manual switch. W. G. Bourne. 2,611,843, Sept. 23.
Combined vehicle headlighting and turn illuminating system. G. H. Coulter. 2,611,857, Sept. 23.
Combustion chamber for prime movers. A. Huyton. 2,611,243, Sept. 23.
Combustion turbine burner. H. A. Altorfer. 2,611,651, Sept. 23.
Compensated amplitude discriminatory circuits. B. E. Denton. 2,611,821, Sept. 23.
Compensating presser device for sewing machines. H. Ritter. 2,611,333, Sept. 23.
Composition for hard facing. H. J. Woock. 2,611,710, Sept. 23.
Compositions containing mixtures of 4-aminosalicylic acid and its basic calcium salt. R. P. Germann, M. E. Hultquist and J. M. Smith, Jr. 2,611,732, Sept. 23.
Compressor, Turbine driven. B. Ljungström. 2,611,532, Sept. 23.
Concentrating phosphoric acid. B. W. Bellinger. 2,611,681, Sept. 23.
Concrete surface sealer. A. G. Glick. 2,611,713, Sept. 23.
Condensation product of formaldehyde with a copolymer of a vinyl aromatic compound and an aliphatic monoolefin and making same. E. M. Geiser. 2,611,760, Sept. 23.
Conducting geophysical surveys, Method and apparatus for. L. H. Rumbaugh, H. Jensen and J. R. Balsley, Jr. 2,611,803, Sept. 23.
Conduit junction box. J. H. Martin. 2,611,500, Sept. 23.
Container: *See*—
Double container. Variable capacity container.
Heavy-duty shipping container.
Container. S. Vadner. 2,611,528, Sept. 23.
Control circuit with temperature and/or humidity compensation. J. W. McNairy. 2,611,854, Sept. 23.
Control for engines employing a pressure fluid medium. A. Horowitz. 2,611,234, Sept. 23.
Control linkage for hydraulic draft regulation of vehicle propelled implements. W. F. Strehlow and I. Kamlukin. 2,611,307, Sept. 23.
Control mechanism. D. C. Larson. 2,611,451, Sept. 23.
Control switching system for automatic exposure timers. R. H. Lee. 2,611,809, Sept. 23.
Controllable cooling system for internal-combustion engines. F. K. H. Nallinger. 2,611,347, Sept. 23.
Conveyer apparatus for carrying trays. S. H. Perky. 2,611,472, Sept. 23.
Copolymers of oxidized isobutylene fractions with hydrocarbons. E. M. Geiser and A. J. de Rosset. 2,611,764, Sept. 23.
Cord support for hearing aids. L. D. Cates. 2,611,831, Sept. 23.
Coring or perforating device. C. M. Mugler. 2,611,434, Sept. 23.
Corner construction for metal doors and the like. C. L. Webster. 2,611,633, Sept. 23.
Coupling: *See*—
Cam operated coupling.
Rotary turbine-type hydraulic coupling.
Coupling device. W. R. Bliss. 2,611,822, Sept. 23.

Cover: *See*—
Dispensing cover.
Perforated soap-enclosing cover.
Cover for toilet seats or lids. M. L. Diamond. 2,611,136, Sept. 23.
Crossbar switch. R. P. Arthur. 2,611,827, Sept. 23.
Cross wind undercarriage. J. H. Geisse. 2,611,564, Sept. 23.
Cultivating implement with fertilizer dispenser in handle. W. F. Peyton. 2,611,514, Sept. 23.
Cultivator, Grape vineyard. J. A. Crain. 2,611,309, Sept. 23.
Cup drawing apparatus. R. E. Slater. 2,611,475, Sept. 23.
Curb form. F. Torrelli. 2,611,169, Sept. 23.
Curl forming device. E. Hoffmann and C. D. Gresham. 2,611,379, Sept. 23.
Curtain, Elastic tied back. R. S. Van Cleef. 2,611,428, Sept. 23.
Cutter: *See*—
Straw cutter.
Cutting apparatus for wallboards and the like. J. F. Butler. 2,611,179, Sept. 23.
Cutting machine. A. A. Rembold. 2,611,433, Sept. 23.
Cutting pad. A. R. Olson and E. W. Gelewitz. 2,611,757, Sept. 23.
Damper, Stovepipe. G. A. Sticht. 2,611,543, Sept. 23.
Deflection control system. F. J. Darke, Jr. 2,611,816, Sept. 23.
Deformable sheet metal fastening clip. W. R. Wiley. 2,611,166, Sept. 23.
Dental engine control. H. E. Crawford. 2,611,836, Sept. 23.
Device for assembling structural elements. A. G. Hanesse. 2,611,160, Sept. 23.
Device for carrying milk bottles. M. Sadeck. 2,611,639, Sept. 23.
Device for parallelizing fibers in sliver or roving during drafting. B. B. Cravens. 2,611,155, Sept. 23.
Device for rolling-over the edges of flat-flanged dished can bottoms or lids. W. Moser. 2,611,412, Sept. 23.
Device for transferring articles from one conveyer to another. R. E. J. Nordquist. 2,611,493, Sept. 23.
Dialkyl bicyclo [2.2.1]-5-heptene-2-phosphonates. E. C. Ladd. 2,611,784, Sept. 23.
Die. G. W. Stockburger. 2,611,522, Sept. 23.
Die set. K. Janiszewski. 2,611,435, Sept. 23.
Diphenylsiloxane copolymers and preparation thereof. L. J. Tyler. 2,611,774, Sept. 23.
Dirt tray for air filters. C. R. Taylor. 2,611,447, Sept. 23.
Discerptible structure. H. E. Nash. 2,611,460, Sept. 23.
Dish, Grapefruit. D. D. Griffin. 2,611,252, Sept. 23.
Dispenser: *See*—
Soap dispenser.
Dispensing apparatus. E. A. Rudolph. 2,611,327, Sept. 23.
Dispensing cover. E. Beldner. 2,611,516, Sept. 23.
Dispensing mechanism for cylindrical articles. C. W. R'ise. 2,611,673, Sept. 23.
Dispensing package for interfolded sheet material. H. Nelson. 2,611,482, Sept. 23.
Dispensing system, Article. P. L. Law. 2,611,540, Sept. 23.
Display apparatus. E. W. Bellis. 2,611,201, Sept. 23.
Display device. J. La Rocca. 2,611,572, Sept. 23.
Display rack for cigar boxes and similar items, Collapsible. D. Lewis. 2,611,491, Sept. 23.
Distillation apparatus for refining fats and oils. J. E. Thompson. 2,611,741, Sept. 23.
Distillation of furfural. J. A. Berriman and J. C. Selbie. 2,611,740, Sept. 23.
Distributor for trickling filters. J. H. Knowles. 2,611,646, Sept. 23.
Door assembly. M. H. Guenther. 2,611,159, Sept. 23.
Double container. M. E. Mayer. 2,611,499, Sept. 23.
Draft gear. W. J. Preising and R. E. Stutzke. 2,611,303, Sept. 23.
Drafting machine. A. L. Baker. 2,611,184, Sept. 23.
Drive construction for mechanical pencils. C. Merryman. 2,611,342, Sept. 23.
Dry cell with improved thermoplastic seal. A. W. Simpson. 2,611,793, Sept. 23.
Dry mix. E. B. Jaeger. 2,611,704, Sept. 23.
Dual carburetor. D. E. Anderson. 2,611,592, Sept. 23.
Duplicating method. R. B. Keller and H. B. Dawson. 2,611,313, Sept. 23.
Dyeing apparatus. G. V. Greaves. 2,611,258, Sept. 23.
Dynamoelectric machine with resiliently supported stator. S. Beckwith and W. F. King. 2,611,797, Sept. 23.
Earring, Nonpiercing. J. Guth. 2,611,251, Sept. 23.
Eccentric cyclic pitch control mechanism for rotors of aircraft. J. Šlechta. 2,611,441, Sept. 23.
Echo ranging system. W. F. Meeker and F. H. Slaymaker. 2,611,445, Sept. 23.
Effecting heat exchange between a rotating solid body and a gaseous medium, particularly for cooling fluid transmissions with rotating casings. K. G. Åhlén and T. A. Ödman. 2,611,248, Sept. 23.
Egg shell scoring device. G. F. Hodson and L. L. Campbell. 2,611,409, Sept. 23.
Electric accumulators, Making. H. G. André. 2,611,792, Sept. 23.
Electric amplifier with negative feedback. A. H. Roche. 2,611,833, Sept. 23.
Electric blanket control. C. R. Turner. 2,611,855, Sept. 23.
Electric boiler. M. Eaton. 2,611,852, Sept. 23.
Electric heat treating furnace. H. E. Koch. 2,611,790, Sept. 23.
Electric motor frame having coolant system incorporated therein. R. R. Hayes. 2,611,798, Sept. 23.
Electric valve control circuits. M. E. Bivens. 2,611,863, Sept. 23.
Electric wave filter. B. B. Jacobsen and W. J. Mitchell. 2,611,874, Sept. 23.
Electrical apparatus. J. W. Jacobs. 2,611,275, Sept. 23.
Electrical control system. A. J. Hornfeck. 2,611,812, Sept. 23.
Electrical measurement of physical effects, for example mechanical strains. J. G. Yates. 2,611,811, Sept. 23.
Electromagnetically operable switch. W. G. Bourne. 2,611,844, Sept. 23.
Electromechanical speed governor. C. P. Molyneux. 2,611,352, Sept. 23.
Electron discharge device. R. Adler. 2,611,879, Sept. 23.
Electron discharge device. R. S. Bailey. 2,611,882, Sept. 23.
Electron source. H. W. Washburn. 2,611,875, Sept. 23.
Electronic grounding apparatus. R. A. Riddle and T. J. Mesh. 2,611,862, Sept. 23.
Embossing calender. P. R. Illner. 2,611,312, Sept. 23.
End guide for rug rolling machines. C. P. Dyken. 2,611,553, Sept. 23.
Engine: *See*—
Opposed piston internal-combustion engine.
Engine control for model airplanes. H. T. Horner. 2,611,351, Sept. 23.
Engine switch with detent. L. D. Boyce. 2,611,841, Sept. 23.
Engine with regenerator, Internal-combustion. F. R. Bell. 2,611,242, Sept. 23.
Engine with water injection, External-combustion. L. B. Patterson. 2,611,240, Sept. 23.
Envelope combination. V. J. Sawdon. 2,611,630, Sept. 23.
Estradiol 17-cyclopentanepropionate. A. C. Ott. 2,611,773, Sept. 23.
Exhaust and induction system for internal-combustion engines. G. J. Allday. 2,611,353, Sept. 23.
Exhaust gas conditioning method. J. P. Ruth. 2,611,680, Sept. 23.
Exhaust manifold for internal-combustion engines. R. L. Fryer, Jr. 2,611,238, Sept. 23.
Expansible pulley. J. Mitchell. 2,611,277, Sept. 23.
Explosion-proof gasoline tank. A. Fashay. 2,611,512, Sept. 23.
Eyelash brush and comb holder, Combined. O. G. Bablon. 2,611,375, Sept. 23.
Fan and delivery tube, Reversible. D. D. Herrman and H. K. Monroe. 2,611,533, Sept. 23.
Fastener: *See*—
Lateral moving table leg fastener.
Fastening means. A. B. Hammitt and H. L. Birum, Jr. 2,611,459, Sept. 23.
Fastening means for roofing and siding material. A. B. Hammitt and H. L. Birum, Jr. 2,611,458, Sept. 23.
Fat composition for infants' food. F. W. Bernhart and J. B. Hassinen. 2,611,706, Sept. 23.
Feeder: *See*—
Bee feeder. Poultry feeder.
Feeding of collapsed cartons and the like. A. G. Rose and J. Page. 2,611,299, Sept. 23.
Fender and fender shield assembly. D. C. Ludwig and G. W. Schatzman. 2,611,629, Sept. 23.
Fender shield. G. W. Schatzman. 2,611,628, Sept. 23.
Filler cap for gasoline tanks. O. H. Griswold. 2,611,503, Sept. 23.
Film hanger. H. L. Fitch. 2,611,300, Sept. 23.
Film reel drive. A. C. Albee. 2,611,284, Sept. 23.
Film splicer. B. Aboltin. 2,611,723, Sept. 23.
Film splicer. S. L. Wittenberg. 2,611,724, Sept. 23.
Filter: *See*—
Electric wave filter.
Fire resistant sheet material. H. L. Becher. 2,611,694, Sept. 23.
Fish ax. G. W. Coulter. 2,611,181, Sept. 23.
Fish egg hatching device. R. Vibert. 2,611,337, Sept. 23.
Fish lure. G. Alexath. 2,611,208, Sept. 23.
Fish lure, Deep-running. J. W. Harvey. 2,611,206, Sept. 23.
Fishing float. F. T. Stockton. 2,611,211, Sept. 23.
Fishing lure. R. B. Pond. 2,611,209, Sept. 23.
Fishing lure. F. R. Steel. 2,611,205, Sept. 23.
Fishing plug. R. B. Pond. 2,611,207, Sept. 23.
Flapping wing flier for individual flying. M. Macklewicz. 2,611,558, Sept. 23.
Flashbulb. J. Poelma and C. A. Lamberts. 2,611,255, Sept. 23.
Flexible suture tube package with embedded tear string. C. C. Adams. 2,611,483, Sept. 23.
Fluid distributor for vessels. R. J. Yoder. 2,611,685, Sept. 23.
Fluid-flow control device and system. S. Crum and H. T. Sparrow. 2,611,542, Sept. 23.

Fluid seal assembly. E. F. Jirsa. 2,611,671, Sept. 23.
Fluorescent tube lighting system and apparatus. J. H. Bridges. 2,611,885, Sept. 23.
Fluorocarbon ortho esters. T. Holm. 2,611,787, Sept. 23.
Flushing device for outboard motors. O. B. Benson. 2,611,631, Sept. 23.
Food dicer. W. G. Weeks. 2,611,404, Sept. 23.
Food molding device. A. R. Rodacker. 2,611,250, Sept. 23.
Footgear, Antislipping. A. De Nitzio. 2,611,194, Sept. 23.
Force gauge. T. H. Wiancko. 2,611,266, Sept. 23.
Forced air flow unit air heating furnace. C. A. Scogin. 2,611,359, Sept. 23.
Formation of a sulfurized halogenated aliphatic hydrocarbon. N. M. Schneider and R. M. Dean. 2,611,766, Sept. 23.
Forming tobacco bunches, Process and apparatus for. P. Peterson. 2,611,372, Sept. 23.
Foundry flask. W. Ernst and O. J. Fleck. 2,611,162, Sept. 23.
Frame: *See*—
Spinning frame.
Frothing agents for flotation of ores. E. C. Tveter. 2,611,485, Sept. 23.
Fuel and combustion supporting medium control for turbine engine starters using excess fuel for cooling. A. T. Briggs. 2,611,239, Sept. 23.
Furnace: *See*—
Electric heat treating furnace. Vibrating-hearth furnace.
Game apparatus, Board. E. E. Kloss. 2,611,616, Sept. 23.
Game, Fishing. E. J. Strohm. 2,611,617, Sept. 23.
Game, Simulated basketball. W. J. and W. J., Jr., Watson. 2,611,615, Sept. 23.
Garment, Child's sleeping. M. S. Heeter. 2,611,131, Sept. 23.
Garment, Drop seat. R. A. Moeller. 2,611,132, Sept. 23.
Garment retaining means. P. H. Simonsen. 2,611,517–18, Sept. 23.
Garment-supporting fixture. W. E. Zamboni and K. E. Luger. 2,611,520, Sept. 23.
Gas engine of the bellows type, Hot. J. W. L. Köhler, C. O. Jonkers, W. H. Stigter and A. A. Liebe. 2,611,236, Sept. 23.
Gas range. R. S. Taylor. 2,611,358, Sept. 23.
Gas reciprocating engine comprising a device for varying the amount of working medium in such engines, Hot. H. de Brey and F. L. van Weenen. 2,611,237, Sept. 23.
Gasoline or other liquid dispensing means. C. C. Morrison. 2,611,320, Sept. 23.
Gate control for filling columns. F. C. Simon. 2,611,465, Sept. 23.
Gate mechanism for cigar bunch machines. S. T. Gustavson. 2,611,371, Sept. 23.
Gauge: *See*—
Automatic fuel gauge. Liquid level gauge.
Force gauge. Micrometer heighth gauge.
Keyway location gauge.
Gear: *See*—
Draft gear.
Generator: *See*—
Multivibrator and impulse generator. Sawtooth wave generator.
German silver electrocardiograph contact electrode. L. J. Pecora. 2,611,368, Sept. 23.
Glass cleaning composition. H. E. Heideman. 2,611,747, Sept. 23.
Glass fibers coated with Werner type complex and making same. R. Steinman. 2,611,718, Sept. 23.
Grandstand seat planks, Demountable. J. F. Roney. 2,611,422, Sept. 23.
Grease shield for skillets. H. H. Willits. 2,611,510, Sept. 23.
Grease trap. S. F. Resan. 2,611,488, Sept. 23.
Grinding wheel truing apparatus. C. G. Flygare and R. D. Ellison. 2,611,356, Sept. 23.
Guard for groove-top containers. J. W. Brown. 2,611,508, Sept. 23.
Guard mounting for jointer cutters. W. B. Boice. 2,611,402, Sept. 23.
Hair curling device. E. T. Barnes. 2,611,377, Sept. 23.
Hair curling device. E. E. King and D. P. Tata. 2,611,378, Sept. 23.
Hair cutting and curling device. M. E. McIntyre. 2,611,376, Sept. 23.
Halophenoxysilanes. J. L. Speier, Jr. 2,611,778, Sept. 23.
Halter, Lady's. F. H. Engelman. 2,611,130, Sept. 23.
Handle fastener for brushes and the like. L. McGuire. 2,611,658, Sept. 23.
Hanger: *See*—
Film hanger.
Hanger for floating roofs. W. E. Busse and C. M. Orr. 2,611,504, Sept. 23.
Hanger in strip form. I. B. Watts. 2,611,492, Sept. 23.
Heat exchanger. C. Boling. 2,611,585, Sept. 23.
Heat exchanger. C. Boling. 2,611,587, Sept. 23.
Heat exchanger. S. C. Collins. 2,611,586, Sept. 23.
Heat exchanger. O. A. Labus. 2,611,584, Sept. 23.
Heat seamer. J. M. Humphrey and J. J. Grevich. 2,611,725, Sept. 23.
Heated toilet seat. J. S. Ryland. 2,611,415, Sept. 23.
Heater: *See*—
Battery heater.
Heater for enclosed spaces. C. D. MacCracken. 2,611,599, Sept. 23.
Heating arrangement for closed automotive bodies. E. E. Hans. 2,611,544, Sept. 23.
Heating equipment, Self-gasifying. R. Martiri. 2,611,425, Sept. 23.
Heavy-duty shipping container. W. C. George. 2,611,526, Sept. 23.
Helicopter rotor. E. G. Vanderlip and E. Daland. 2,611,344, Sept. 23.
Helicopter rotor vibration reducing means. A. F. Donovan. 2,611,557, Sept. 23.
High pressure inflatable packer. J. Lynes. 2,611,437, Sept. 23.
High-pressure mercury vapor lamp. E. B. Noel. 2,611,883, Sept. 23.
High-speed slewing. D. O. McCoy. 2,611,893, Sept. 23.
High voltage circuit breaker. E. Goessel. 2,611,838, Sept. 23.
Highway sign. W. J. Taylor, J. H. Worsham and J. L. Davis. 2,611,203, Sept. 23.
Hitch including mannally operated sliding latch mechanism. S. L. Miller. 2,611,461, Sept. 23.
Holder: *See*—
Blanket holder. Sanitary toothbrush holder.
Hose end holder.
Hood for tanks and the like. A. H. Fine. 2,611,509, Sept. 23.
Hood ornament construction. R. L. Logue. 2,611,687, Sept. 23.
Hose end holder. C. B. Yoder. 2,611,568, Sept. 23.
Housing for scale mechanism. E. W. Schellentrager. 2,611,605, Sept. 23.
Hydration of lime. N. V. S. Knibbs. 2,611,683, Sept. 23.
Hydraulic disk brake. K. J. Vaughn. 2,611,453, Sept. 23.
Hydraulic dumping attachment for trucks. E. L. Stockwell. 2,611,641, Sept. 23.
Hydraulic log-barker having kerf-cutting and bark-removing jets. R. E. Burton. 2,611,401, Sept. 23.
Hydrocarbon conversion catalyst and process. G. M. Webb and R. W. Moehl. 2,611,738, Sept. 23.
Hydrocarbon cracking stock for catalytic cracking, Preparation of. V. A. Johnson. 2,611,737, Sept. 23.
Illuminated support with liquid-holding pan. J. E. Fredin. 2,611,856, Sept. 23.
Implement control for tractor-connected implements. R. D. Acton. 2,611,305, Sept. 23.
Inclined axis rotatable drum concrete mixing apparatus. C. I. Longenecker. 2,611,591, Sept. 23.
Independent front wheel suspension coupled as a unit to the vehicle frame. F. F. Kishline, R. H. Phelps and J. S. Voigt. 2,611,625, Sept. 23.
Indicator: *See*—
Oil and oil filter condition indicator. Turn indicator.
Indicator and stop for magnetic wire recorders. H. Nygaard. 2,611,550, Sept. 23.
Insecticidal compositions containing hydrocarbon esters of diethyl dithiophosphoric acid. J. H. Bartlett, H. W. Rudel and E. B. Cyphers. 2,611,729, Sept. 23.
Insecticidal compositions containing substituted aliphatic esters of diethyl dithiophosphoric acid. J. H. Bartlett, H. W. Rudel and E. B. Cyphers. 2,611,728, Sept. 23.
Inspection device. R. B. Hartman. 2,611,876, Sept. 23.
Inspection means for sealed packages. J. A. Sargeant and J. R. Wade, Jr. 2,611,481, Sept. 23.
Instrument for locating faults in electrical cables and/or measuring electrical capacity. H. J. and A. D. Osborn. 2,611,805, Sept. 23.
Interlocking elevator door latch switch. G. S. Rogers. 2,611,840, Sept. 23.
Internal-combustion engine poppet valve cooling. F. E. Lindsay. 2,611,348, Sept. 23.
Interpolymers of α-acyloxyacrylonitriles. J. B. Dickey. 2,611,765, Sept. 23.
Keyboard. O. Heim. 2,611,2991, Sept. 23.
Key case. F. A. Pontin. 2,611,260, Sept. 23.
Keyway location gauge. E. L. Keene and D. C. Griffin. 2,611,187, Sept. 23.
Ladder and extensible loading ramp for platforms, Combined. D. R. Biggert and H. P. Goedicke. 2,611,466, Sept. 23.
Lamp: *See*—
High-pressure mercury vapor lamp.
Lamp stand and tripod. H. M. Breakiron. 2,611,571, Sept. 23.
Landing information receiving system. A. Casabona and G. Stavis. 2,611,892, Sept. 23.
Lasting machine. J. Fossa. 2,611,141, Sept. 23.
Latch grip, Automatic. L. F. Metzger. 2,611,636, Sept. 23.
Latch mechanism. R. C. Cerf, Jr. 2,611,635, Sept. 23.
Lateral moving table leg fastener. F. Ohlsson. 2,611,672, Sept. 23.
Lawn sprinkler, Projectable nozzle. H. J. M. Burdick. 2,611,644, Sept. 23.
Leaf stripper. G. W. Johnson. 2,611,215, Sept. 23.

Lens for camera objectives, Supplemental. B. E. Lubosbez. 2,611,294, Sept. 23.
Let back control. J. Rinne, E. H. Ashton, R. G. Mallard, and F. G. Lake. 2,611,396, Sept. 23.
Level. P. D. Bello. 2,611,189, Sept. 23.
Lever switch. D. P. Mossman, Sr. 2,611,835, Sept. 23.
Lift mechanism for tractor implements. J. Morkoski. 2,611,308, Sept. 23.
Lift type draft unit. M. De Bairos. 2,611,302, Sept. 23.
Light: *See*—
Combination spot and trouble light.
Light-sensitive photographic element. R. A. Stevens, L. A. Van Der Auwera, and D. M. A. Van Goethem. 2,611,697, Sept. 23.
Light supporting means. J. C. Young. 2,611,573, Sept. 23.
Lighter with display chamber, Pyrophoric. S. G. Lipic. 2,611,202, Sept. 23.
Line tracker control electronic drive. R. R. Lobosco. 2,611,887, Sept. 23.
Liner construction for grinding mills. E. Posselt. 2,611,546, Sept. 23.
Linkage means. C. B. Bright. 2,611,282, Sept. 23.
Lint remover for driers. M. F. Huebsch. 2,611,192, Sept. 23.
Liquid level gauge. E. E. van Ham. 2,611,271, Sept. 23.
Loading machine having a hydraulic control system for traction means. A. L. Lee. 2,611,444, Sept. 23.
Lock: *See*—
Combination lock.
Locking firearm barrels. C. E. Simpson. 2,611,297, Sept. 23.
Lubricant fitting. I. Kalikow. 2,611,450, Sept. 23.
Lubricating composition. E. M. Kipp. 2,611,745–6, Sept. 23.
Lubricating device, Motor vehicle front wheel. P. D. Douglass. 2,611,668, Sept. 23.
Lubricating pump. H. Etzelt. 2,611,449, Sept. 23.
Lubrication composition. E. M. Kipp. 2,611,742–4, Sept. 23.
Luggage having separable case portions, Wardrobe. E. K. Trimble and C. R. Yost. 2,611,463, Sept. 23.
Lunch box. J. W. Coney. 2,611,476, Sept. 23.
Machine for mounting a flexible film on glass for making lantern slides. K. A. Van Dyck and G. J. Koch. 2,611,720, Sept. 23.
Machine for pitting fruits such as dates. A. W. Schafer. 2,611,403, Sept. 23.
Machine for twisting fan spiders. P. M. Sampatacos. 2,611,414, Sept. 23.
Machine tool. E. Schultz, Jr. 2,611,173, Sept. 23.
Machinery for fabricating bags in various sizes. V. G. Williams. 2,611,225, Sept. 23.
Magnetic data storage system. T. K. Sharpless and E. S. Eichert, Jr. 2,611,813, Sept. 23.
Magnetic exploration, Method and apparatus for. H. Jensen. 2,611,802, Sept. 23.
Magnetic record editing device. O. B. Gunby. 2,611,828, Sept. 23.
Magnetic weatherstrip assembly for thresholds. E. J. Gregory. 2,611,158, Sept. 23.
Magnetically actuated milk metering device. W. H. Harstick and H. W. Hein. 2,611,269, Sept. 23.
Magneto tester. H. E. Latourelle. 2,611,265, Sept. 23.
Mailbox stand. J. J. Kroll. 2,611,570, Sept. 23.
Making brushes, Method of and apparatus for. R. O. Peterson. 2,611,652, Sept. 23.
Making circular fluorescent lamps, Method of and machine for. H. C. Snow, E. F. Kelley, and S. S. Sayward. 2,611,216, Sept. 23.
Manufacturing margarine, Method and apparatus for. J. Rourke and W. T. Dow. 2,611,707, Sept. 23.
Material handling device. E. R. Backofen. 2,611,497, Sept. 23.
Mattress and upholstery spring structure. J. Piliero. 2,611,138, Sept. 23.
Measuring apparatus. J. F. Zaleski. 2,611,804, Sept. 23.
Mechanical bola. B. D. Manning. 2,611,340, Sept. 23.
Mechanical golf player's stance positioner. J. R. Hara. 2,611,610, Sept. 23.
Mechanical governor with spring supported wedge shaped governor weights. O. E. Hintz and H. A. Heckendorf. 2,611,603, Sept. 23.
Mechanic's creeper. A. L. Henry and A. E. Killingsworth. 2,611,417, Sept. 23.
Mechanic's shop work layout tool of the head and pivoted blade type. J. C. Thursack. 2,611,185, Sept. 23.
Mechanism for charging containers. R. Spurr. 2,611,525, Sept. 23.
Mechanism for separating sheetlike materials. E. Johansson, B. Bergvall, and U. Alfredsson. 2,611,471, Sept. 23.
Medical preparation for reducing the body level of sodium. A. E. Heming. 2,611,730, Sept. 23.
Mesh joint for pliers and like instruments. M. Schiffbauer. 2,611,288, Sept. 23.
Metallurgical apparatus for treating test specimens. H. G. Keshian. 2,611,264, Sept. 23.
Method and machine for making doughnuts and the like. R. M. Lehman. 2,611,329, Sept. 23.
Method and products utilizing cashew nut shell liquid. L. B. Palmer and R. W. Charlton. 2,611,715, Sept. 23.
Micrometer heighth gauge. R. R. Noble. 2,611,186, Sept. 23.
Mixer for frozen desserts. W. C. Kelley and H. C. Phillips. 2,611,588, Sept. 23.
Modification of drying oils. H. S. Bloch. 2,611,788, Sept. 23.
Mold for forming plaques. I. H. Theis. 2,611,170, Sept. 23.
Mold for molding concrete ties. J. M. Wilson. 2,611,171, Sept. 23.
Motion-picture projector attachment. H. G. Weiss. 2,611,293, Sept. 23.
Motor for internal-combustion engines, Electric starting. E. H. C. Thorpe. 2,611,274, Sept. 23.
Mount for optical elements. C. W. Pribus. 2,611,296, Sept. 23.
Mounting: *See*—
Resilient mounting.
Tandem axle spring mounting.
Mulching and grading apparatus. D. E. Barrett and C. D. Lowery. 2,611,196, Sept. 23.
Multichannel transmission system. D. B. Harris. 2,611,825, Sept. 23.
Multicylinder hot gas reciprocating piston engine of the double-acting type. F. L. van Weenen. 2,611,235, Sept. 23.
Multiple band turret-type tuning system. A. G. Lazzery. 2,611,807, Sept. 23.
Multiplex antenna distribution system. E. Lacey. 2,611,895, Sept. 23.
Multiplying machine, Short-cut. S. Toorell and E. Grip. 2,611,539, Sept. 23.
Multirow roller bearing. P. G. Palmgren. 2,611,669, Sept. 23.
Multivibrator and impulse generator. P. J. Walsh. 2,611,890, Sept. 23.
N-substituted 4,6-diamino metanilic acids and the corresponding nitro derivatives. R. C. Gunther. 2,611,785, Sept. 23.
N-(2-thiazolyl)-2-hydroxypyridine-5-sulfonamides. J. M. Smith, Jr. 2,611,770, Sept. 23.
Navigation system. A. M. MacCallum and S. L. Baring-Gould. 2,611,190, Sept. 23.
Nut-holding magazine wrench. L. Frank. 2,611,289, Sept. 23.
Oil and oil filter condition indicator. F. M. Walls. 2,611,448, Sept. 23.
Oil gauge wiping device. H. C. Linstrom. 2,611,145, Sept. 23.
Oil well derrick, Portable. R. Woods. 2,611,455, Sept. 23.
Oleaginous corrosion preventive composition. B. L. Costello. 2,611,711, Sept. 23.
1,4,5,8-tetraaminoanthraquinone compounds, Preparation of. C. F. H. Allen and C. V. Wilson. 2,611,772, Sept. 23.
Opener with crimp engaging teeth, Bottle cap. C. H. Baker. 2,611,286, Sept. 23.
Opposed piston internal-combustion engine. W. A. Parrish. 2,611,349, Sept. 23.
Optical objective comprising a meniscus doublet and meniscus triplet between two positive components. W. Schade. 2,611,295, Sept. 23.
Organic pigments in finely divided form, Preparing. D. E. Marnon. 2,611,771, Sept. 23.
Oscillator, Bridge. F. M. Gager and J. M. Headrick. 2,611,873, Sept. 23.
Outlet control and agitator for bins. W. J. Kilpatrick. 2,611,513, Sept. 23.
Overspeed trip valve mechanism. E. M. Kuemmerlein and C. A. Newland. 2,611,382, Sept. 23.
Oxygen tank cart. I. A. Kernkamp. 2,611,622, Sept. 23.
Package and storage of apples. H. H. Plagge. 2,611,709, Sept. 23.
Pad: *See*—
Cutting pad.
Pail, Heated lunch. F. H. Lott. 2,611,851, Sept. 23.
Paperboard pallet. W. E. Coleman and J. P. H. Leavitt. 2,611,569, Sept. 23.
Parachute apparatus. J. R. C. Quilter. 2,611,565, Sept. 23.
Parallax correction circuit. G. E. White, R. L. Graef, and C. J. La Forge. 2,611,537, Sept. 23.
Particle source. J. H. Coleman. 2,611,878, Sept. 23.
Pattern device for circulator knitting machines. H. Diem. 2,611,253, Sept. 23.
Pattern fixture for making molds for turbines. C. H. Paul and B. F. Vogelaar. 2,611,161, Sept. 23.
Penicillin, Production of. E. K. Frederiksen and E. J. Nielsen. 2,611,733, Sept. 23.
Perforated soap-enclosing cover. G. Lambert. 2,611,144, Sept. 23.
Phenolic molding compound. C. H. Hempel. 2,611,759, Sept. 23
Phenylol silanes and resins therefrom. J. L. Speier, Jr. 2,611,777, Sept. 23.
Phonograph. J. R. Cambron and D. C. Rockola. 2,611,619, Sept. 23.

Photographic element containing unsymmetrical oxonol filter and antihalation dyes. G. H. Keyes and L. G. S. Brooker. 2,611,696, Sept. 23.
Photographic emulsions containing unsymmetrical tetranuclear cyanine dyes. T. R. Thompson. 2,611,695, Sept. 23.
Photographic sensitive element, Making a. W. Robijns. 2,611,716, Sept. 23.
Pickup tube beam-interrupting circuit. F. J. Somers. 2,611,820, Sept. 23.
Pie crimping and sealing device. J. Roman. 2,611,328, Sept. 23.
Pilot controlled multiport valve. O. W. Johnson. 2,611,392, Sept. 23.
Pilot-operated valve. P. Spence. 2,611,218, Sept. 23.
Pin: *See*—
Plastic and metal headed pin.
Pipe. H. E. Plough. 2,611,374, Sept. 23.
Pipe anchor, Insulated. T. F. M. Williamson. 2,611,567, Sept. 23.
Pipe marking device. H. P. Thrower. 2,611,183, Sept. 23.
Pitch control and feathering mechanism for variable pitch propellers. L. Haworth and C. L. Johnson. 2,611,440, Sept. 23.
Pivot and bearing assembly. H. A. Hadley. 2,611,659–62, Sept. 23.
Planter. G. R. O'Neil. 2,611,331, Sept. 23.
Plastic and metal headed pin. G. S. Light. 2,611,168, Sept. 23.
Pliers, Wire splicing. I. O. Limpus. 2,611,397, Sept. 23.
Plow, Direct mounted two-way. G. R. Ego. 2,611,301, Sept. 23.
Plug: *See*—
Fishing plug.
Plural pulley mechanism. L. T. Askren and R. J. Roman. 2,611,283, Sept. 23.
Pocket implement. J. V. H. Whipple and J. W. Topa. 2,611,178, Sept. 23.
Pole derrick. H. J. Troche and J. H. Holan. 2,611,580, Sept. 23.
Polyvinyl resin plasticized with polyester. I. Pöckel. 2,611,756, Sept. 23.
Portable picture screen. L. J. Du Mais and H. Bernzott. 2,611,427, Sept. 23.
Portable sectional ironing board. A. P. Lantz. 2,611,197, Sept. 23.
Positive closure plug valve. J. E. Storment. 2,611,576, Sept. 23.
Potato chips, Production of. C. E. Hendel. 2,611,705, Sept. 23.
Poultry feeder. F. P. E. Quick. 2,611,339, Sept. 23.
Poultry tag. E. W. Ashton. 2,611,198, Sept. 23.
Poultry tag. E. W. Ashton. 2,611,200, Sept. 23.
Power control for agricultural machines. M. A. Bergsten and W. E. Cade. 2,611,279, Sept. 23.
Power conversion apparatus. A. P. Henry. 2,611,324, Sept. 23.
Power lift means affording depth control and sequential raising and lowering of implements. W. F. Strehlow, C. T. O'Harrow, and R. W. Johansen. 2,611,306, Sept. 23.
Power measuring bridge. H. J. Carlin. 2,611,795, Sept. 23.
Power plant comrising a toroidal combustion chamber and an axial flow gas turbine with blade cooling passages therein forming a centrifugal air compressor. T. R. Schulz. 2,611,241, Sept. 23.
Power-transmission mechanism. A. M. Kamper. 2,611,886, Sept. 23.
Power transmission unit. H. F. Heynau. 2,611,276, Sept. 23.
Preparing a cellulated glass body. W. D. Ford. 2,611,712, Sept. 23.
Pressing blanks of molded pulp. E. M. Chevrier. 2,611,154, Sept. 23.
Pressure gauge for sand formation testers. H. Pennington. 2,611,267, Sept. 23.
Pressure tank cover construction. B. R. Winborn, Jr., and D. E. Beduhn. 2,611,505, Sept. 23.
Preventing evaporation loss and apparatus therefor. I. L. Wissmiller. 2,611,511, Sept. 23.
Printed tag receiver for tag printing machines. P. N. Braun. 2,611,314, Sept. 23.
Printer's gauge. C. J. Winkvist. 2,611,315, Sept. 23.
Producing a compound fertilizer. H. Tramm. 2,611,691, Sept. 23.
Producing lather by centrifugal action of fluid over a soap cake surface. G. C. and A. O. Johnson. 2,611,649, Sept. 23.
Production of adjunct to feedstuffs. L. Potishman. 2,611,702, Sept. 23.
Program-scheduling apparatus. H. F. Elliott. 2,611,430, Sept. 23.
Pump: *See*—
Lubricating pump. Rotary pump.
Pump. H. D. Digney. 2,611,323, Sept. 23.
Pump. W. F. Strehlow and I. Kamiukin. 2,611,319, Sept. 23.
Pump. G. A. Wahlmark. 2,611,318, Sept. 23.
Pump and motor cylinder, Combined. J. J. Keough. 2,611,350, Sept. 23.
Pump and motor hydraulic system and electrical control circuits therefor. J. A. Ackermann. 2,611,246, Sept. 23.
Pump and motor hydraulic system and regulating apparatus therefor. W. F. Strehlow. 2,611,245, Sept. 23.
Pump with radial inlet and outlet, Rotary. A. Wahle. 2,611,322, Sept. 23.
Quick-acting gate valve. J. H. Webb. 2,611,575, Sept. 23.
Rack-knapsack. S. L. Utterström. 2,611,519, Sept. 23.
Radiant heat welding equipment. O. R. Smith. 2,611,848, Sept. 23.
Radiation pyrometer with illuminator. W. T. Gray. 2,611,541, Sept. 23.
Radio and television receiving system, Combination. W. R. Koch. 2,611,818, Sept. 23.
Railroad tie. W. W. Bartlett. 2,611,545, Sept. 23.
Rake classifier and lubricating system therefor. C. H. Scott. 2,611,474, Sept. 23.
Razor blade magazine. E. J. Gray. 2,611,478, Sept. 23.
Razor having shearheads with one end closer to each other than the other end. V. and W. Kobler. 2,611,175, Sept. 23.
Receiver and action assembly for firearms. T. R. Robinson, Jr. 2,611,204, Sept. 23.
Reciprocating web feed. A. J. Hagopian. 2,611,609, Sept. 23.
Reclining self-adjusting chair. L. L. and L. H. McKinney. 2,611,419, Sept. 23.
Record marker for dictating machines. F. E. Runge. 2,611,620, Sept. 23.
Recorder bar suspension for facsimile recorders. M. Alden. 2,611,677, Sept. 23.
Recorder, Portable sound film. M. E. Collins. 2,611,551, Sept. 23.
Recording and reproducing device, Tape and disk.. M. Camras. 2,611,618, Sept. 23.
Recovering acid and benzol from benzol washing residues. C. Otto. 2,611,739, Sept. 23.
Recovering hydrogen sulfide from sulfide containing soda liquors obtained in cellulose production. N. V. Mannbro. 2,611,682, Sept. 23.
Refining molten metal. W. T. Geyer. 2,611,693, Sept. 23.
Refining vessel. H. C. Glitsch. 2,611,457, Sept. 23.
Reforming process and catalyst therefor. V. Haensel. 2,611,736, Sept. 23.
Regeneration of exhausted silver bleach solutions by means of N-bromo compounds. A. H. Brunner, Jr., and R. H. Zappert. 2,611,700, Sept. 23.
Regeneration of exhausted silver bleaching solutions. R. H. Zappert. 2,611,699, Sept. 23.
Registration device for wrapping machines. T. Jensen. 2,611,224, Sept. 23.
Regulated rectifier. H. M. Huge. 2,611,889, Sept. 23.
Reinforcing rod connection in block walls. G. R. and L. A. Dodson. 2,611,262, Sept. 23.
Relay control system. H. C. Lawrence and G. E. Yewdall. 2,611,808, Sept. 23.
Relief valve. A. G. Johnson. 2,611,390, Sept. 23.
Removable plug for openings in meter casings. A. J. Wayman. 2,611,507, Sept. 23.
Removing metals from crude petroleum oils. E. A. Coons. 2,611,735, Sept. 23.
Repairing furnace walls. L. M. Kirk. 2,611,330, Sept. 23.
Repeater for frequency modulated waves. R. S. Bailey and M. Silver. 2,611,859, Sept. 23.
Resilient closure for containers. W. F. Smith. 2,611,515, Sept. 23.
Resilient mounting. R. E. Davies and H. H. Fink. 2,611,574, Sept. 23.
Resin impregnating machine for fabric or like material. C. C. Sachs. 2,611,336, Sept. 23.
Retaining device for sponges. N. E. Kampouris. 2,611,147, Sept. 23.
Reversible electric control system. G. F. Richards. 2,611,888, Sept. 23.
Rider plate construction. J. A. Neumair. 2,611,373, Sept. 23.
Road maintenance machine. L. H. Adams. 2,611,598, Sept. 23.
Roller bearing cage with closed-in face slot. P. G. Palmgren. 2,611,670 Sept. 23.
Rotary drill for drilling wells. W. H. Ellis. 2,611,583, Sept. 23.
Rotary electromagnetic positioning device. H. B. Ackerman. 2,611,799, Sept. 23.
Rotary pump. F. M. Kirkpatrick. 2,611,534, Sept. 23.
Rotary turbine-type hydraulic coupling. R. H. Brown. 2,611,247, Sept. 23.
Rotatable stop. G. H. Cote. 2,611,174, Sept. 23.
Rotating nozzle for rockets. A. Africano. 2,611,317, Sept. 23.
Roughing and finishing tool. B. L. Johnson. 2,611,222, Sept. 23.
Safety body supporting device. R. J. Peters. 2,611,363, Sept. 23.
Safety interlocked ticket receiving and checking machine. M. H. London. 2,611,535, Sept. 23.
Sanitary toothbrush holder. W. J. Keys. 2,611,477, Sept. 23.
Sash lock assembly, Removable. J. W. Price. 2,611,462, Sept. 23.

Saw having angularly adjustable blade, Drag. W. Jacobson. 2,611,399, Sept. 23.
Saw table for portable power driven reciprocating handsaws. W. E. Shore. 2,611,400, Sept. 23.
Sawing and cutting machine, Wood. E. Schutz. 2,611,398, Sept. 23.
Sawtooth wave generator. R. K. Lockhart. 2,611,872, Sept. 23.
Scaffold, Self-sustaining. E. B. Brittin. 2,611,657, Sept. 23.
Scale, Baby weighing. J. C. and W. V. Sutton. 2,611,604, Sept. 23.
Scale, Weighing. H. A. Hadley. 2,611,606, Sept. 23.
Screen: *See*—
Portable picture screen.
Screw feed mechanism. W. A. Brinkhurst. 2,611,280, Sept. 23.
Sealing device. B. Gross. 2,611,285, Sept. 23.
Sealing structure of the gasket type. C. L. Scheer. 2,611,506, Sept. 23.
Seat: *See*—
Heated toilet seat.
Seat and back rest chair construction, Adjustable. O. N. Hathaway. 2,611,421, Sept. 23.
Sectionalized case for turbines and the like. G. A. Biggs. 2,611,578, Sept. 23.
Selection circuits. P. L. Law. 2,611,814, Sept. 23.
Selector control system. A. A. Ashton. 2,611,249, Sept. 23.
Self-aligning bearing. J. L. Foster. 2,611,663, Sept. 23.
Separable and collapsible article simulating a Christmas tree. M. Fridinger. 2,611,688, Sept. 23.
Sewing machine, Shoe. C. H. James and F. Ricks. 2,611,142, Sept. 23.
Shaft coupling assembly. F. R. Harris. 2,611,632, Sept. 23.
Shaver-clipper. J. W. Halterman. 2,611,177, Sept. 23.
Sheet metal guide and support for vise jaws. M. Brandstad. 2,611,287, Sept. 23.
Shelf arrangement for refrigerators or the like. J. S. Palmer. 2,611,675, Sept. 23.
Shift delay. H. W. Gray and C. I. Nicoson. 2,611,281, Sept. 23.
Shoe lining having self-stiffening properties. R. B. Harrison. 2,611,726, Sept. 23.
Shower stool and drain fitting, Combination. B. N. Greene. 2,611,135, Sept. 23.
Side wall coring tool. W. L. Church. 2,611,582, Sept. 23.
Sign: *See*—
Highway sign.
Signaling system. R. M. M. Oberman. 2,611,815, Sept. 23.
Simultaneous amplitude modulation and phase modulation with economy in bandwidth. M. Kalfulan. 2,611,826, Sept. 23.
Single side band radio signaling. W. S. Percival. 2,611,860, Sept. 23.
Ski and making the same. A. G. Strand. 2,611,623, Sept. 23.
Ski and ski tip attachment. M. A. Gurvich. 2,611,624, Sept. 23.
Skimmer mechanism for clarifiers. C. H. Scott. 2,611,489, Sept. 23.
Slicing machine. H. E. Farmer. 2,611,408, Sept. 23.
Slicing machine in combination with a cabinet therefor. H. Preble, Jr. 2,611,406, Sept. 23.
Slip, Half. I. L. Brown. 2,611,133, Sept. 23.
Smoke absorbent smoker. H. G. Irwin. 2,611,311, Sept. 23.
Soaking pit. J. F. Mowat. 2,611,600, Sept. 23.
Soap dispenser. C. A. Risher. 2,611,648, Sept. 23.
Spinning frame. E. F. Saunders. 2,611,230, Sept. 23.
Splicing rubber, Method of and apparatus for. E. D. George. 2,611,722, Sept. 23.
Spray device, Door operated. P. J. Ash. 2,611,647, Sept. 23.
Spray gun. G. H. Palm. 2,611,650, Sept. 23.
Spraying device, Fluid. B. Forman. 2,611,645, Sept. 23.
Spring: *See*—
Adjustable accordion air cushion spring.
Bed spring.
Sprinkling device, Automatic. R. V. Higgins. 2,611,643, Sept. 23.
Stabilized forage crops, Production of. C. R. Thompson. 2,611,703, Sept. 23.
Stable polyvinyl butyral dispersions, Preparation of. W. H. Bromley, Jr. 2,611,755, Sept. 23.
Stage kneading, Method and apparatus for. R. H. Jebens. 2,611,590, Sept. 23.
Stand: *See*—
Mailbox stand.
Starting device for free piston internal-combustion operated compressors or gas generators. R. J. Welsh. 2,611,233, Sept. 23.
Steam locomotive injector attachment. W. F. Smith, Sr. 2,611,384, Sept. 23.
Steam resistant isoolefin-diolefin copolymer rubbery composition. D. V. Sarbach. 2,611,758, Sept. 23.
Steering mechanism for tractors. G. A. Thomas. 2,611,442, Sept. 23.
Stiffening uppers of shoes. J. J. Brophy and C. G. Newton, Jr. 2,611,195, Sept. 23.
Storm window. L. Toth. 2,611,156, Sept. 23.
Stove, Portable broiling. T. W. Turner. 2,611,357, Sept. 23.
Straw cutter. V. P. Alloway. 2,611,407, Sept. 23.
Submersible burner. N. Swindin. 2,611,362, Sept. 23.
Supplementary fluid feed device with automatic tandem metering valves. D. E. Anderson. 2,611,594, Sept. 23.
Support: *See*—
Catalyst support.
Surface grinding machine. J. Selby. 2,611,220, Sept. 23.
Suture gun. B. D. Mull. 2,611,366, Sept. 23.
Switch: *See*—
Combined magnetic and manual switch.
Crossbar switch.
Electromagnetically operable switch.
Interlocking elevator door latch switch.
Lever switch.
Time-controlled switch.
Synthesis of esters of thioldimethyl-valeric acid. R. S. Spindt and D. R. Stevens. 2,611,783, Sept. 23.
Synthetic rubbers containing tackifiers and softeners and product thereof, Producing. H. Burrell and R. H. Barth. 2,611,753, Sept. 23.
Tackifiers and softeners for synthetic rubbers and compositions containing the same. R. H. Barth. 2,611,752, Sept. 23.
Tag. W. Stelzer. 2,611,199, Sept. 23.
Take-up mechanism. J. Rinne, E. H. Ashton, R. G. Mallard and F. G. Lake. 2,611,395, Sept. 23.
Tamping roller. J. M. Paramythioti. 2,611,443, Sept. 23.
Tandem axle spring mounting. P. Thomas. 2,611,626, Sept. 23.
Tank: *See*—
Explosion-proof gasoline tank.
Tape cutter for spools. S. A. Sherrill. 2,611,431, Sept. 23.
Tape dispensing device. A. F. Tallman. 2,611,432, Sept. 23.
Telegraph receiving apparatus. H. C. A. van Duuren. 2,611,824, Sept. 23.
Telemetric or repeater system. P. A. Noxon and W. A. Reichel. 2,611,191, Sept. 23.
Television receiver. G. D. Hulst. 2,611,881, Sept. 23.
Television signal control system. R. Serrell. 2,611,819, Sept. 23.
Temperature control device. N. Miller. 2,611,845, Sept. 23.
Temporary protective coating and method of vulcanizing. S. T. Semegen. 2,611,153, Sept. 23.
Tensioning and joining device for strap ends. W. A. Meighan and T. L. Hume. 2,611,164, Sept. 23.
Terminal assembly for electric-cell batteries. J. L. Peterson. 2,611,794, Sept. 23.
Tertiary-alkyl isocyanates, Preparation of. N. M. Bortnick. 2,611,782, Sept. 23.
Testing device for voltage and current regulators. J. Agin. 2,611,806, Sept. 23.
Therapeutic apparatus, High-frequency. H. S. Rubens. 2,611,365, Sept. 23.
Therapeutic lamp support and control. R. J. Harkenrider. 2,611,367, Sept. 23.
Thermal pressure equalizer. E. G. Gravenhorst. 2,611,393, Sept. 23.
Thermally hardened porous solid. C. N. White. 2,611,750, Sept. 23.
Thermocouple means. W. E. Brandau. 2,611,791, Sept. 23.
Thermoelectric system for remote object images. R. H. Rines. 2,611,894, Sept. 23.
Thermostatic control system for ovens. G. H. F. Walton. 2,611,850, Sept. 23.
Thread cutter device with finger support. J. D. Herz. 2,611,180, Sept. 23.
3-carboxylic acylamino-2,4,6-triiodo benzoic acids and the ethyl ester and nontoxic salts. V. H. Wallingford. 2,611,786, Sept. 23.
Tilting device for tableware used in conjunction with the conveying belt of a dishwashing machine. P. H. Davis. 2,611,381, Sept. 23.
Time-controlled switch. C. G. Reynard and H. L. Hart. 2,611,429, Sept. 23.
Timer, Toaster. J. J. Gough. 2,611,849, Sept. 23.
Timing angle indicator for automotive engine distributors. M. J. Zirin. 2,611,837, Sept. 23.
Tire deflating valve with pressure gauge. T. E. Parrott. 2,611,386, Sept. 23.
Tire lug for relugging tires. V. Rawls. 2,611,411, Sept. 23.
Toilet chair. J. C. Moore, 2d. 2,611,416, Sept. 23.
Toilet, Folding. J. W. Jarrett, R. L. Tangeman and M. B. Schmidt. 2,611,134, Sept. 23.
Toilet kit. A. Grower. 2,611,380, Sept. 23.
Tool: *See*—
Machine tool.
Roughing and finishing tool.
Side wall coring tool.
Valve seat grinding tool.
Tool chest. A. H. Oliver. 2,611,479, Sept. 23.
Tool for bleeding brake cylinders, Valved. C. J. Legerski. 2,611,387, Sept. 23.
Tool for manufacturing spiral groove tubing. N. Mollnare. 2,611,413, Sept. 23.
Toolholder. E. M. Patterson and E. O. Behne. 2,611,621, Sept. 23.
Torque converter brake construction. R. Lapsley. 2,611,452, Sept. 23.

Toy airplane, U control. H. W. Johnson and R. L. Palmer. 2,611,213, Sept. 23.
Toy, Roly-poly. F. P. Schur. 2,611,214, Sept. 23.
Toy, Twisted string. R. M. Wellner. 2,611,212, Sept. 23.
Tractor-mounted implement. W. G. Toland. 2,611,304, Sept. 23.
Trailer, Cargo. L. M. Francis. 2,611,640, Sept. 23.
Trailer hitch, Foldable. W. E. Martin. 2,611,496, Sept. 23.
Transducer. L. M. Heineman. 2,611,830, Sept. 23.
Transfer device. H. P. Curlee. 2,611,467, Sept. 23.
Transparentizing to obtain patterned cotton textiles employing resists of pigment containing aqueous oleaginous emulsions. H. Ginzel. 2,611,678, Sept. 23.
Transversely divided, plural-section demountable wheel-rim. J. W. Mynssen. 2,611,654, Sept. 23.
Trap: *See*—
Grease trap.
Tray for use in refining towers. H. C. Glitsch. 2,611,596, Sept. 23.
Trialkylsilylphenoxysilanes. J. L. Speier, Jr. 2,611,779, Sept. 23.
Triorganosilylphenoxysilanes. J. L. Speier, Jr. 2,611,781, Sept. 23.
Trolley. C. D. P. Smallpeice. 2,611,326, Sept. 23.
Truck, Roll gripping and upending. J. C. Broersma. 2,611,498, Sept. 23.
Tube: *See*—
Amplifier gas tube.
Tucking mechanism for wrapping machines. V. P. Harvey. 2,611,226, Sept. 23.
Tuning apparatus for electronic equipment. R. E. Samuelson. 2,611,858, Sept. 23.
Turn indicator. M. T. Lybrook and H. H. Clayton. 2,611,842, Sept. 23.
Turning work. E. P. Bullard. 2,611,290, Sept. 23.
Two-lamp wrapper. G. A. Conkle. 2,611,531, Sept. 23.
Type action system for typewriters. O. Haas, T. Schaedler and L. Schneider. 2,611,469, Sept. 23.
Ultrahigh frequency traveling-wave tube power regulating system. P. M. Lapostolle. 2,611,832, Sept. 23.
Uncaser device. S. Ciraolo. 2,611,494, Sept. 23.
Unsaturated quaternary ammonium halides of certain saturated heterocyclics and preparation. G. B. Butler and R. L. Bunch. 2,611,768, Sept. 23.
Vacuum cleaner carrier. H. Levy. 2,611,149, Sept. 23.
Valve: *See*—
Automatic valve.
Pilot controlled multiport valve.
Pilot-operated valve.
Positive closure plug valve.
Quick-acting gate valve.
Relief valve.
Valve. J. Sainsbury and W. E. Hennels. 2,611,391, Sept. 23.
Valve. C. B. Talley. 2,611,388, Sept. 23.
Valve assembly. H. C. Grant, Jr. 2,611,577, Sept. 23.
Valve for pressure bailers. W. R. Hanline and J. W. E. Hanes. 2,611,438, Sept. 23.
Valve seat grinding tool. H. M. Emge. 2,611,223, Sept. 23.
Vaporizer and burner, Liquid fuel. J. S. Clarke, A. E. Clarke, and N. P. Coupe. 2,611,244, Sept. 23.
Variable angle corner pulley. T. N. Hannant. 2,611,581, Sept. 23.
Variable capacity container. V. K. Jalkanen. 2,611,272, Sept. 23.
Variable speed pulley and engine throttle control for harvester threshers, Combination. A. H. Keller. 2,611,227, Sept. 23.
Variometer and induction regulator. J. Bell. 2,611,891, Sept. 23.
Vat dye photoprints. A. Schoen. 2,611,701, Sept. 23.
Vehicle frame structure. D. F. Reynolds. 2,611,627, Sept. 23.
Vehicle lift. W. Guzey, Jr., J. Curlett and J. F. McKiney. 2,611,579, Sept. 23.
Velocity metering of gas flow. G. L. Mellen. 2,611,268, Sept. 23.
Venetian blind, including vertical tapes and means for twisting the upper and lower ends of tapes independently. E. E. Randall. 2,611,426, Sept. 23.
Ventilating wall block. N. Cowan. 2,611,310, Sept. 23.
Ventilator, Window or wall. W. H. Braskamp. 2,611,608, Sept. 23.
Vessel and fluid propelling device. H. J. Shafer. 2,611,321, Sept. 23.
Vibrating-hearth furnace. D. A. Knight. 2,611,601, Sept. 23.
Vine feeding attachment for vine threshers. C. L. Key. 2,611,370, Sept. 23.
Vinyl acetate-allyl acetate copolymer emulsion. H. Rudoff. 2,611,754, Sept. 23.
Vinyl acetate polymerization. S. B. Luce. 2,611,762, Sept. 23.
Vinyl pyridines, Preparation of. J. T. Hays. 2,611,769, Sept. 23.
Vulcanization of tires with high-frequency fields and apparatus therefor. A. G. Seifried. 2,611,152, Sept. 23.
Wall box. L. D. Bermann. 2,611,501, Sept. 23.
Washing and squeeze drying machine, Combined. L. M. Kahn. 2,611,257, Sept. 23.
Water or vapor injector for internal-combustion engines. G. Sudmeier. 2,611,345, Sept. 23.
Wax production process. W. P. Ridenour. 2,611,734, Sept. 23.
Web winding machine. E. D. Nystrand. 2,611,552, Sept. 23.
Wet process for Portland cement manufacture. J. C. Witt. 2,611,714, Sept. 23.
Wheel assembly, Demountable. C. A. Humma. 2,611,653, Sept. 23.
Wheel-mounted drum filling assembly. A. A. Aines. 2,611,523, Sept. 23.
Wheel structure. C. Hollerith. 2,611,655, Sept. 23.
Window stop. J. E. Bevington. 2,611,634, Sept. 23.
Windshield cleaner. A. Rappl. 2,611,148, Sept. 23.
Wiper for drill pipes having a lubricant cavity. J. L. Buckley. 2,611,146, Sept. 23.
Wiring system of conductors permanently embedded in insulation. C. A. Naughton. 2,611,800, Sept. 23.
Work blasting equipment. W. I. Gladfelter. 2,611,219, Sept. 23.
Wrench: *See*—
Nut-holding magazine wrench.
Writing implement, Retractable. F. M. Almes. 2,611,343, Sept. 23.
Yarn guide for automatic bobbin winders. J. W. May. 2,611,547, Sept. 23.
Yarn traverse for yarn winding machines. E. J. Heizer. 2,611,548, Sept. 23.
Yarn-winding machinery. E. Kinsella. 2,611,549, Sept. 23.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 23, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,611,157: 20—57
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CLASSIFICATION OF DESIGNS

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D58—26: Des. 167,808
D59— 2: Des. 167,793
D80—10: Des. 167,820
D92— 1: Des. 167,812

U. S. GOVERNMENT PRINTING OFFICE: 0—1952

Condition of Applications Under Examination at Close of Business September 5, 1952

Total number of patent applications awaiting action, 96,538. Date of oldest new application, December 6, 1951; date of oldest amended application, December 6, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	12-27-51	12-21-51	1484
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-4-52	1-16-52	1176
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	1-31-52	1-29-52	1673
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	12-18-51	12-14-51	1432
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-10-51	12-10-51	1169
6. SURLE, H., Carbon Chemistry (part)	1-8-52	1-5-52	1915
7. ANDERSON, E. G. (Acting), Optics; Photography (part)	1-8-52	1-5-52	1349
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	1-8-52	1-8-52	1398
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	12-11-51	12-10-51	1448
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	12-22-51	1-2-52	1314
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	12-21-51	12-21-51	849
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-10-51	12-21-51	1297
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	12-14-51	12-7-51	1163
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus.	12-17-51	12-14-51	1482
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	2-5-52	2-7-52	1387
16. LOVEWELL, N. N., Television, Telephony	12-18-51	12-17-51	1322
17. LEIGHY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-15-51	12-11-51	1317
18. KURZ, J. A., Power Plants; Speed Responsive Devices	12-12-51	12-6-51	863
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-2-52	12-17-51	1072
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	12-29-51	12-22-51	1358
21. MADER, R. C., Textiles	12-12-51	12-12-51	1290
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-17-51	12-13-51	1097
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	12-31-51	1-2-52	800
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	1-14-52	1-14-52	1427
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Communuters; Distillation.	12-21-51	12-12-51	1340
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	12-15-51	12-18-51	1214
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-24-51	12-21-51	1636
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-6-51	12-6-51	1260
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	12-11-51	12-8-51	1205
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	1-14-52	1-14-52	1515
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	12-26-51	12-31-51	2207
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-proportioning Systems.	1-2-52	1-2-52	1203
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-21-51	12-12-51	1804
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	12-21-51	12-18-51	1101
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	12-19-51	12-17-51	1341
36. McFADYEN, A. D., Measuring and Testing	12-26-51	12-27-51	1121
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	1-3-52	1-8-52	1201
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	12-11-51	12-15-51	1612
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	1-15-52	1-10-52	1566
40. DRUMMOND, E. J., Receptacles (part); Packages	2-1-52	2-1-52	1260
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	1-10-52	1-3-52	898
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	1-7-52	1-10-52	1029

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 96,538. Date of oldest new application, December 6, 1951; date of oldest amended application, December 6, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles. Hides, Skins, and Leathers; Preserving (part).	1-2-52	1-2-52	1371
44. HARVEY. L. P., Beds; Chairs; Seats	12-10-51	12-10-51	1179
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	1-11-52	1-11-52	1192
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-13-51	12-7-51	1130
47. KANOF, W. J., Mining, Quarrying and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-15-51	12-12-51	1596
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-19-51	12-18-51	1590
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-7-51	12-7-51	1376
50. BENGEL, W. G., Synthetic Resins; Rubber	2-1-52	2-1-52	1481
51. YAFFEE, S., Radiant Energy (part e. g., Radic Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	1-9-52	1-5-52	1348
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-14-52	1-11-52	2016
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-18-52	1-8-52	928
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-8-51	12-10-51	1669
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	12-13-51	12-18-51	1034
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	12-28-51	12-28-51	1910
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-14-52	1-15-52	1570
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	12-26-51	12-12-51	1159
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-2-52	1-7-52	1047
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	1-31-52	2-1-52	895
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-14-51	12-14-51	1285
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	2-6-52	1-19-52	1170
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-7-51	12-7-51	1694
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	12-26-51	12-19-51	1664
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	1-3-52	12-17-51	1446
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	12-6-51	12-6-51	933
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	2-9-52	1-28-52	1193
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	1-23-52	1-11-52	1421
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	12-10-51	12-8-51	1243
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-12-51	12-8-51	2967
DESIGNS: A. BREHM, G. L., Industrial Arts	6-2-52	6-9-52	672
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	5-9-52	5-12-52	764

Total number of trade-mark applications awaiting action (including renewals and republications), 15,005. Date of oldest new application, March 13, 1952; date of oldest amended application, March 10, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	3-17-52	3-17-52	3596
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	3-15-52	3-10-52	3668
Renewals (All Classes)	6-10-52	6-26-52	783
Republications (All Classes)	5-10-52	4-3-52	281
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	3-13-52	3-17-52	3597
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	3-24-52	3-21-52	3080

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

HOLLAND-RANTOS COMPANY, INC.

v.

HENRY LABORATORIES, INC.

No. 5846. Decided March 18, 1952

[195 F.2d 325; 93 USPQ 168]

TRADE-MARKS—CONFUSION OF THE PUBLIC—"H R" AND "H. L."

The decision of the Examiner-in-Chief, holding that a composite mark including the letters "H. L.," as applied to douche powder for feminine hygiene is not confusingly similar to the appellant's composite mark including the letters "H R" as applied to vaginal jelly, is affirmed.

APPEAL from Patent Office. Opposition No. 28,345.

AFFIRMED.

E. G. Roe for Holland-Rantos Co., Inc.

A. Yates Dowell for Henry Laboratories, Inc.

JACKSON, *J.*:

On February 16, 1948, appellee filed an application for registration of its trade-mark for "Douche Powder for Feminine Hygiene," Serial No. 549,804. On January 27, 1949, appellant filed its notice of opposition to the registration.

Neither party took testimony but both filed briefs and were present at the hearing.

The mark sought to be registered is composite in character in which the letters "H. L." appear within an equilateral triangle, the top side of which is in a horizontal position. A shadow is cast from the triangle on the left side thereof and the words "Feminine Hygiene" in script are written across the lower part of the triangle below which is the word "Powder" also in script. The words are disclaimed apart from the mark, as shown.

In its notice of opposition, appellant relies upon its mark "H R," Registration No. 505,674, dated January 18, 1949, as applied to "Vaginal Jelly." The composite mark of appellant shows those letters in block form beneath a diamond-shaped figure, the top of the letters being contiguous to the bottom lines of the diamond.

It has not been denied that appellant is the prior user of its mark.

The Examiner of Interferences in his decision held that by reason of the close relationship of the goods of the parties confusingly similar marks when used simultaneously upon those products would prevent the registration sought.

It was contended by appellee that a comparison of the marks shows that there can be no possibility of confusion by reason of the letters in its mark and the differently formed design appearing thereon.

The Examiner agreed with the contention of appellant that the dominant features of the two marks are the letters "H R" and "H. L." respectively.

It was his opinion that the triangle appearing in one mark and the diamond-shaped design in the other were not sufficient to eliminate confusion which was likely to arise from the use of what the Examiner held to be the dominant features. The Examiner compared the marks herein with those which appeared in *R. C. Williams & Company, Inc.* v. *Wyandotte Chemicals Corporation*, 69 USPQ 410; and those in the case of *West Disinfecting Company* v. *Cliff C. Owen*, 35 CCPA (Patents) 843, 165 F.2d 450, 76 USPQ 315, 608 O. G. 825, stating that the letters appearing on the marks of the parties herein are as confusingly similar as those which appeared in the two cited cases. He further cited the case of *Crystal Corporation* v. *Manhattan Chemical Mfg. Co., Inc.*, 22 CCPA (Patents) 1027, 75 F.2d 506, 25 USPQ 5, 458 O. G. 665, in which it was said that "We think the weight of the authorities strengthens the conclusion that appellant is entitled to a monopoly of a lettered trade-mark for baby powder to the extent that no newcomer has the right to adopt any lettered trade-mark which, by reason of similarity, would produce confusion." The opposition was sustained by the Examiner of Interferences.

The Examiner-in-Chief agreed that the involved products are too closely related to permit the registration of the same or confusingly similar marks. He also stated that the different forms of the respective products would only increase, rather than lessen, likelihood of confusion as to origin if the same or confusingly similar marks were used by the parties.

The Examiner-in-Chief disagreed with the decision of the Examiner of Interferences with respect to the similarity of the marks. He noted that the Examiner was of opinion that the letters appearing in the marks are the dominant features of them, but stated that the Examiner paid no attention to the designs. He held the involved designs not to be so

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subordinate that they should be disregarded when the letters are not identical. Therefore, he concluded that the letters in appellant's mark were formed so as to constitute an integral part of the whole design, and, as set out, are not remotely similar to the mark of appellee.

The Examiner-in-Chief discussed the *West Disinfecting Company* case, supra; the *Crystal Corporation* case, supra; and the *R. C. Williams Co.* case, supra, and was of opinion that those cases did not involve situations similar to the issue presented in this case where there is but one letter in common to the two marks and each mark includes a design different from the others.

From the decision of the Examiner-in-Chief this appeal was taken.

We do not think it necessary to re-examine our often pronounced holding that precedents in trade-mark cases are of very little, if any, importance in litigation such as this.

We have no doubt but that a visual examination of the respective marks shows that they are entirely dissimilar. It is obvious that the letters do not look alike, nor sound alike, and when taken as they should be in connection with the designs, we do not find sufficient similarity to justify a holding that there would be likelihood of confusion to the trade. Furthermore, it appears to us that from the nature of the products of the parties and the use to which they are put, purchasers would be extremely circumspect in their choice.

We find no error in the decision of the Examiner-in-Chief and therefore the decision appealed from is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,994,950, C. W. Hoffritz, Illuminated dial, D. C., S. D. Calif. (Los Angeles), Doc. 12648–T, *C. W. Hoffritz et al.* v. *G. Barnett*. Dismissal by plaintiff May 8, 1952.

2,078,056, E. Chapman, Frame for high compression apparatus, C. C. A., 2d Cir., Doc. 22265, *Lukens Steel Co.* v. *American Locomotive Co.* Decree affirmed July 1, 1952.

2,109,400, K. Miescher et al., Esters of testosterone and process of making same; 2,308,833, Ruzicka & Wettstein, Polynuclear cyclic oxyketones and derivatives thereof and process of making same, D. C. N. J. (Newark), Doc. 2/49, *Chemical Specialties Co., Inc.* v. *Ciba Pharmaceutical Co., Inc.* Consent judgment for injunction July 11, 1952.

2,136,359, Bley & Hoerer, Diamond bit, filed July 8, 1952, D. C., N. D. Tex. (Dallas), Doc. 4739, *Joy Mfg. Co.* v. *The Williams Bit & Tool Co.*

2,145,918, T. E. Bryan, Gas lift apparatus; 2,275,345, same, Removable gas lift apparatus in oil wells; 2,275,346, same, Gas lift valve and surface operating mechanism, filed July 10, 1952, D. C., S. D. Tex. (Houston), Doc. 6910, *T. E. Bryan* v. *The Atlantic Refining Co.*

2,212,207, 2,214,137, Irwin & Irwin, Roasting rack, D. C., S. D. Calif. (Los Angeles), Doc. 12849–T, *U. D. Irwin* v. *Sears Roebuck & Co.* Stipulation and order of dismissal June 9, 1952.

2,214,137. (See 2,212,207.) 2,275,345. (See 2,145,918.)

2,275,346. (See 2,145,918.)

2,276,981, E. T. John, Ventilating metal ironing table top, D. C., W. D. Tex. (Austin), Doc. 540, *The J. R. Clark Co.* v. *Smithville Metal Products Co., Inc.* Complaint and counterclaim dismissed without prejudice (notice July 9, 1952).

2,308,833. (See 2,109,400.)

2,319,464, L. Massa, Tooth for excavating apparatus, filed July 1, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 14298–WM, *Jetco, Inc.* v. *Everett Mfg. Co., Inc., et al.*

2,441,091, Van Der Vliet & Stevens, Method of preparing a 7-dehydrosterol, filed July 14, 1952, D. C. Del. (Wilmington), Doc. 1470, *Hartford National Bank & Trust Co.* v. *E. F. Drew & Co., Inc.*

2,467,849, O'Brien & Von Harz, Portable electric rotary drain cleaner, D. C., N. D. Ill. (Chicago), Doc. 50c452, *John V. O'Brien* v. *Howard T. O'Brien*. Judgment for plaintiff, injunction issued July 8, 1952.

2,505,428, J. K. Pope, Air gun projectile holder, D. C., S. D. Calif. (Los Angeles), Doc. 11746–PH, *Newell Mfg. Co. et al.* v. *Knickerbocker Plastic Co., Inc.* Complaint and counterclaim dismissed without prejudice May 1, 1952.

2,524,723. (See Re. 23,455.)

2,538,673, P. A. Donahue, Footwear, D. C., S. D. Calif. (Los Angeles), Doc. 12881–C, *Connecticut Footwear, Inc., et al.* v. *P. A. Donahue*. Stipulation and order dismissing complaint and counterclaim with prejudice Dec. 18, 1951.

2,602,793, J. W. Cusic, 8-haloxanthine salts of N-dialkylaminoalkyl-N arylmethyl-a-aminopyridines, filed July 8, 1952, D. C. N. J. (Newark), Doc. 643/52, *Brayton Pharmaceutical Co.* v. *G. D. Searle & Co.*

Re. 23,455 (of 2,524,723), S. A. Young, Pop-up valve connection, filed July 1, 1952, D. C., N. D. Ohio (Cleveland), Doc. 29295, *S. A. Young* v. *The Koller Bros. Co.*

Des. 153,349, O. R. Galter, Bottle opener; Des. 160,081, same, Opener for bottles and vacuum sealed jars, filed July 11, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1483, O. R. *Galter* v. *Earl Products Co. et al.*

Des. 160,081. (See Des. 153,349.)

Des. 162,965, R. Kreiger, Cap, D. C., S. D. Calif. (Los Angeles), Doc. 13202–HW, *R. Kreiger* v. *M. Colby et al.* Patent held valid and infringed, injunction (notice July 8, 1952).

Des. 164,385, I. Rabinowitz, Stocking, filed July 11, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13929, *Sharnay Hosiery Mills, Inc.* v. *Sanson Hosiery Mills, Inc., et al.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 305,503, H. W. Kinney, Maltose-dextrin carbohydrate with dextrose; T. M. 418,058, same, Carbohydrate syrup for infant feeding, filed July 14, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1495, *Sterling Drug, Inc.* v. *D. J. Marcey Co.*

T. M. 334,376, Walter Kidde & Co., Inc., Liquid fire extinguishing apparatus; T. M. 426,786, same, Portable hand fire extinguisher; T. M. 515,545, same, Flame actuated electric apparatus for closing of fire alarm circuits; T. M. 515,546, same, Cylinders for compressed or liquefied gas for use with breathing, D. C., S. D. N. Y., Doc. 71/231, *Walter Kidde & Co., Inc.* v. *K–D Lamp Co.* Stipulation and order of dismissal July 10, 1952.

T. M. 387,893, F. Powell, Novelties and souvenirs, filed July 8, 1952, D. C., S. D. N. Y., Doc. 77/99, *Chick Powell Co.* v. *R. K. O. Pictures, Inc., et al.*

T. M. 418,058. (See T. M. 305,503.)

T. M. 426,786. (See T. M. 334,376.)

T. M. 515,545. (See T. M. 334,376.)

T. M. 515,546. (See T. M. 334,376.)

T. M. 519,097, Platt Luggage, Inc., Hand luggage, filed July 3, 1952, D. C., S. D. N. Y., Doc. 77/75, *Platt Luggage, Inc.* v. *Boyle Leather Goods Co., Inc.*

T. M. 544,108, Holiday Casuals, Shoes made of straw and linen fabrics, filed July 14, 1952, D. C., S. D. N. Y., Doc. 77/155, *Holiday Casuals, Inc.* v. *M. Beckerman & Sons, Inc., et al.*

NOTICES

Adjudicated Patents

(D. C. Md.) Kulka Patent No. 2,464,643, for a holder for gaseous discharge lamps. Claims 1 to 5 *Held* invalid and not infringed. *Kay Patents Corporation* v. *Martin Supply Company, Inc., et al.*, 105 F. Supp. 442; 93 USPQ 468.

(D. C. Md.) Kulka Patent No. 2,495,196, for a holder for gaseous discharge lamps. Claim 6 *Held* invalid and not infringed. *Id.*

Classification Order No. 132

August 8, 1952

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASS

in *Class 12, Boot and Shoe Making* (Division 11)

Burnishing tools
105 Rotary

ABOLISH SUBCLASS TITLES

in *Class 5, Beds* (Division 44), abolish the unnumbered subclass title preceding subclass 317.

CHANGE SUBCLASS TITLES

in *Class 1, Nailing, Stapling and Clip Clenching* (Division 11), change the title and position of subclass 3.1 to read:

Nailing and stapling machines
Staple setting
Magazine
3.1 Staple feeders

in *Class 5, Beds* (Division 44), change the title and indentation of subclass 317 to read:

317 **Bed attachments and accessories**

in *Class 12, Boot and Shoe Making* (Division 11), change the titles of subclasses 69.3 and 70, as follows:

69.3 **Buttoning or unbuttoning machines**
70 **Sole and/or heel burnishing machines**

in *Class 27, Undertaking* (Division 20), change the title of subclass 22 to read:

Body preparation
22 Embalming processes

in *Class 135, Tents, Canopies, Umbrellas and Canes* (Division 20), change the title of subclass 53 to read:

Canes and sticks
Crutches
53 Tips, convertible, remote control

in *Class 296, Land Vehicles, Bodies and Tops* (Division 47), change the title of subclass 76 to read:

Bodies
76 Trunk lids

CHANGE SUBCLASS POSITION

in *Class 298, Land Vehicles, Dumping*; change the position of subclass 22 to read:

Tilting
Operating mechanism
22 Fluid pressure operators (to follow subclass 20)

ESTABLISH SUBCLASSES

in *Class 12, Boot and Shoe Making* (Division 11)
(S. KOREN and E. V. BENHAM, *Classifiers*)

Sole machines
17.2 Peripheral operation and automatically bodily moved shoe support (to follow subclass 17)

Sole and/or heel burnishing machines
73.5 With wax applying (to follow subclass 70)
Rotary tool
77.5 Rotary tool heads and/or tools (to follow subclass 77)
Reciprocating tool
79.2 Reciprocating tool heads and/or tools (to follow subclass 79)

in *Class 135, Tents, Canopies, Umbrellas and Canes* (Division 20)
(H. R. MOSELEY, *Classifier*)

Canes and sticks
47.5 Arm engaging (to follow subclass 47)
Tips
55 Convertible (to follow subclass 54)
56 Reversible
57 Superimposed
58 Relatively movable penetrating and non-penetrating elements
59 Penetrating element housed within non-penetrating element
60 Shock absorbing
61 Fluid
62 Pivoting rocking or swivelling
63 Roller
64 Yieldable material

in *Class 138, Pipes and Tubular Conduits* (Division 52)

(C. L. PACE, *Classifier*)

With closures and plugs
Laterally insertable
94.3 Line blinds (to follow subclass 94)
94.5 Pivoted

in *Class 167, Medicines, Poisons and Cosmetics* (Division 43)

(I. MARCUS, *Classifier*)

49.5 **Undertaking and embalming Compositions** (to follow subclass 49)
84.5 **Diagnostic** (to follow subclass 84)

in *Class 292, Closure Fasteners* (Division 20)

(H. R. MOSELEY, *Classifier*)

251.5 **Magnetic** (to follow subclass 251)

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
12	105	12	77.5

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
12	17.2	12	17, 77, 78, 86.5
12	73.5	12	77, 78, 79.5
12	77.5	12	77, 105
12	79.2	12	78, 104
135	47.5	135	45, 49+
135	55–64	135	53, 54
138	94.3	138	89
		251	51, 167
138	94.5	251	18, 167
167	49.5	27	22
167	84.5	167	78
		8	94.11
		252	408
		73	61
292	251.5	292	1, 70

IN THE DEFINITIONS:

1, Nailing, Stapling and Clip Clenching

in subclass 70, cancel the definition only, and substitute:

70. Methods under subclass 60 wherein the element is applied to work to form an outstanding bight or wicket providing a girdle or passage either through the wicket or between the upstanding bight and the work.

8, Bleaching and Dyeing; Fluid Treatment and Chemical Modification of Textiles and Fibers

in subclass 94.1, under "Search Class", insert:

167—MEDICINES, POISONS AND COSMETICS, subclass 49.5, for compositions used to preserve and/or improve the appearance of dead bodies of persons for preparation for burial.

in subclass 94.11, under "Search Class", add:

167—MEDICINES, POISONS AND COSMETICS, subclass 84.5, for compositions and methods for preparing animal tissues for pathological examination including the staining and fixing of histological tissue specimens.

in subclass 94.16, under "Search Class", in the reference to Class 167, insert after the title:

subclass 49.5, for compositions used to remove hair from dead bodies of persons, and

12, Boot and Shoe Making

In subclass 13.3, under "Search this class, subclass", in the reference to subclass 55.1, after "upper" insert *folding*.

establish the following subclass definition:

17.2. Machines under subclass 17 in which peripheral operations are performed on the soles of shoes, and the supports for the shoes being operated upon are bodily translatable and are automatically controlled to present the shoes for the particular operations being performed.

(1) Note.—In this subclass are found machines in which the shoe is supported on "an iron man". The support for the shoe is thus termed because its movements are so controlled automatically that the operation performed by the machine is designed to be independent of the skill of the operator.

cancel the definitions and notes of subclasses 69.3 through 79, and substitute:

69.3. Machines under the class definition designed to button shoe uppers to close them for lasting, or to unbutton the uppers after the lasting operation.

69.5. Machines under the class definition designed to place lacings in shoe uppers to close them for lasting, or to remove such lacings after the lasting operation.

Search this class, subclass—
113—for devices for holding the flies or flaps of uppers together during the lasting operation.
142—for methods of applying laces to shoe uppers.

Search Class—
112—SEWING MACHINES, appropriate subclasses, for sewing machines of structure similar to shoe lacing machines.
289—TYING CORDS OR STRANDS, appropriate subclasses, for knot tying machines.

70. Machines under the class definition provided with rigid metallic burnishing tools, which may be heated, designed to produce a rubbing action on the edge and/or tread surfaces of soles and heels to condense and polish the surfaces.

(1) Note.—This subclass includes machines performing a burnishing operation by plural tools of different types which may be individually provided for in subclasses indented hereunder.
(2) Note.—Class 29, METAL WORKING, subclass 90+, is the generic place for machines or processes for burnishing the surface of metallic or nonmetallic articles. See notes thereto for burnishing elsewhere classified.

Search this class, subclass—
85+—for sole and heel trimmers of analogous structure.
104—for hand tools for burnishing soles and heels.

Search Class—
15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 36+, for machines for boot cleaning and polishing by brushing.
29—METAL WORKING, subclass 90+, see (2) Note above.
51—ABRADING, for machines for abrading boots and shoes.

73.5. Machines under subclass 70 provided with means to apply wax to the work or to the burnishing tool or to retain wax on the burnishing tool.

Search this class, subclass—
79.5—for machines for waxing and polishing boots and shoes in which the applying means is not a burnishing tool.

77. Machines under subclass 70 in which the burnishing tool rotates.

Search this class, subclass—
88+—for rotary sole and heel edge trimmers.

Search Class—
15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 34+, for rotary brush machines for boot cleaning, blacking and polishing.
51—ABRADING, subclass 31+, for abrading machines with a rotary reciprocating tool, and subclass 71+, for abrading machines in which the tool has rotary motion only.

77.5. Rotary burnishing tool and/or heads associated therewith, for use with rotary burnishing machines under the definition of subclass 77.

78. Machines under subclass 70 in which the burnishing tool moves back and forth along a fixed path.

(1) Note.—The path followed is usually a straight line or an arc of a circle.

Search Class—
15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 33, for boot cleaning, blacking and polishing, and subclass 37, for boot cleaners and polishers employing a reciprocating brush.
51—ABRADING, subclass 57+, for machines employing a reciprocating abrading tool.

78.5. Machines under subclass 78 in which the reciprocating movement of the tool is around the curved surface of the heel from one breast corner to the other.

79. Machines under subclass 78 in which the reciprocating burnishing tool is flexibly connected to a power source and is guided by the hand of the operator.

Search this class, subclass—
77—for burnishing machines having rotary tools flexibly connected to a power source and guided by the hand of an operator.

79.2. Reciprocating burnishing tools and/or heads associated therewith, for use with reciprocating burnishing machines under the definition of subclass 78.

in subclass 79.3, cancel "Search Class" and the reference to Class 51.

in subclass 79.5, cancel "Search Class" and the reference to Class 29, and add:

Search this class, subclass—
78.5—for burnishing machines having means to apply wax to the work or to the burnishing tool or to retain wax on the burnishing tool.

cancel the definition and note of subclass 104, and substitute:

104. Hand tools for burnishing the edge and/or tread surfaces of soles and heels to condense and polish the surfaces.

Search this class, subclass—
77.5—for rotary burnishing tools for use with rotary burnishing machines.
79—for reciprocating burnishing tools flexibly connected to a power source and manually guided.
79.2—for reciprocating burnishing tools for use with reciprocating burnishing machines.

cancel the definition and notes of subclass 105.

15, Brushing, Scrubbing and General Cleaning

in subclass 4, cancel the note and add:

Search this class, subclass—
50+—for surface brushing machines with liquid or fluent material application, and for such combinations including a wiper.

in subclass 50, cancel the search note and add:

(1) Note.—This and indented subclasses contain surface brushing machines, with or without wipers, including means for applying paint and other liquid or fluent coating materials to walls, floors, ceilings, roadways and the like.

Search this class, subclass—
4, 44, 46, 78+, **97**+, and **131**.

in subclass 78, cancel the search note and add:

Search this class, subclass—
40+, **49**+, **54**+, for other surface brushing machines, and particularly subclass 50+, for road marking machinery.

in subclass 166, add:

Search this class, subclass—
131.05—for subject matter of this subclass (166) combined with implement carried material supply.

in subclass 245, add:

Search this class, subclass—
210—for squeegee-like non-absorbent wiper devices especially adapted by configuration for cleaning the outer surface of rod-like members, i. e., "sucker rods".

in subclass 323, under "Search this class, subclass", cancel the reference to subclass 257, and substitute:

257—for racks or cabinets per se for air draft cleaning apparatus wherein the disclosure indicates a contemplated use of the said air draft cleaning apparatus while associated with the rack or cabinet.

19, Textiles, Fiber Preparation

in subclass .3, under "Search Class", in the reference to Class 164, delete "means" and substitute *apparatus and processes*; change the comma after "operation" to a period and delete the remainder of the sentence.

in subclass .35, under "Search Class", in the reference to Class 164, after "apparatus" add *and processes*; change the comma after "cleavage" to a period and delete the remainder of the sentence.

in subclass .6, under "Search Class", delete the comma after "apparatus" and delete "subclass 125 for".

20, Wooden Buildings

in subclass 78, add:

Search Class—
105—RAILWAY ROLLING STOCK, subclass 375, for auxiliary floors for railway cars. When the sole specific disclosure of the use of a slatted floor covering is as an auxiliary floor for a railway car, classification is in Class 105, subclass 375.

23, Chemistry

in subclass 230, under "Search Class", add:

167—MEDICINES, POISONS AND COSMETICS, subclass 84.5, for compositions and methods adapted to diagnose a body condition or determine the potency of a medicine by a biological test.

27, Undertaking

in subclass 22, add:

Search Class—
167—MEDICINES, POISONS AND COSMETICS for compositions used to preserve and/or improve the appearance of dead bodies of persons for preparation for burial.

29, Metal Working

in subclass 110, under "Note I. B", under "Search Class", cancel the reference to Class 12, and substitute:

12—BOOT AND SHOE MAKING, subclass 77+, for rotary machines and tools for burnishing boots and shoes, and subclass 79.5, for rotors for applying wax to boots and shoes and polishing the waxed areas.

30, Cutlery

in subclass 295, in the definition, cancel "or" and substitute *during cutting or from*.

35, Education

in subclass 20, cancel the definition only, and substitute:

20. Methods, apparatus and products under subclass 10 pertaining to biology and taxidermy. Included are models, cells, mounting and preserving means, processes and taxidermy devices.

and insert:

(1) Note.—See Class 8, BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.11, for reactive treatment of biological specimens.
(2) Note.—See Class 18, PLASTICS, subclass 59, for processes of encasing plants, flowers and biological specimens in a mass of material.
(3) Note.—See Class 27, UNDERTAKING, subclass 22, for manipulative methods of embalming or preserving corpses.
(4) Note.—See Class 41, ORNAMENTATION, particularly subclasses 12, 13 and 14, for ornamental forms derived from or simulating natural flowers, and subclass 22, for specimens encased in plastic.
(5) Note.—See Class 117, COATING: PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 3, for processes of coating plants, flowers and biological specimens whether for preservation or ornamentation.
(6) Note.—See Class 167, MEDICINES, POISONS AND COSMETICS, subclass 84.5, for compositions and methods for preparing animal tissues for pathological examination including the staining and fixing of histological tissue specimens.

43, Fishing, Trapping and Vermin Destroying

in subclass 11, add:

Search Class—
306—TOOL-HANDLE FASTENINGS, appropriate subclasses for loop to handle connections where only so much of the loop or its equivalent and handle are claimed as is necessary to effect the connection or fastening therebetween.

51, Abrading

in the class definition, under "Search Class", in the reference to Class 12, change "104+" to *104*.

53, Package Making

in subclass 22, under "Search Class", in the reference to Class 93, change the title from "Package Making" to *Paper Manufactures*.

73, Measuring and Testing

in the class definition, under "(3) Note", after "A", add:

AA. Biological
167—MEDICINES, POISONS AND COSMETICS, subclass 84.5, for compositions and methods adapted to diagnose a body condition or determine the potency of a medicine by a biological test.

and under "B. Chemical", insert:

195—CHEMISTRY, FERMENTATION, subclass 103.5, for processes which include analysis or testing comprising fermentation or qualitative or quantitative testing for fermentability, or fermentative power, which comprises fermentation when the result is positive.

in subclass 373, at the end of the definition, add the following sentence:

Apparatus in which thermometers are placed and manipulated for the same purpose, are included.

81, Tools

in subclass 38, insert:

Search this class, subclass—
52—for jaw attachments to pliers and tongs.
186—for jaw faces for wrenches.

in subclass 52, add:

Search this class, subclass—
38—for vise jaw attachment.
186—for jaw faces for wrenches.

in subclass 58.5, add:

Search this class, subclass—
58—for wrenches having two handle portions, one being movable relative to the other, arranged to be gripped by the hand and squeezed together to thereby drivingly engage the head.

in subclass 186, add:

Search this class, subclass—
38—for vise jaw attachments.
52—for jaw attachments to pliers and tongs.

101, Printing

in subclass 426, under "Search this class, subclass", change "149" to *129*.

105, Railway Rolling Stock

in subclass 375, add:

Search Class—
20—WOODEN BUILDINGS, subclass 78, for slatted floor coverings of general utility. Where the sole specific disclosure of the use of such a covering is as an auxiliary floor for a railway car, classification is in Class 105, subclass 375.

106, Compositions, Coating or Plastic

in the class definition, under "(2) Note, B", cancel the reference to Class 35, and substitute:

35—EDUCATION, subclass 68, for compositions from which erasable surfaces are formed, e. g., blackboards.

121, Motors, Expansible-Chamber Type

under subclass 38, under "Search this class, subclass", change "14.3" to *143*.

128, Surgery

in subclass 2, under "Search Class", insert:

167—MEDICINES, POISONS AND COSMETICS, subclass 84.5, for compositions and methods adapted to diagnose a body condition or determine the potency of a drug by a biological test.

134, Cleaning and Liquid Contact With Solids

in the class definition, under "(5), Index to Preceding Notes", under "Search Class" in the reference to Class 12, change "104+" to *104*.

135, Tents, Canopies, Umbrellas and Canes

establish the following subclass definition:

47.5. Subject matter under subclass 45 in which the upper extremity of the cane or stick engages the arm of the user between the hand and arm pit.

Search this class, subclass—
49+—for crutches which engage the arm pit of the user.

in subclass 49, under "Search this class, subclass", add:

47.5—for canes and sticks, sometimes called crutches, in which the upper extremity engages the arm of the user between the hand and arm pit.

in subclass 50, cancel the definition and substitute:

50. Devices under subclass 49, the length of the staff between the arm pit engaging portion and the ground engaging portion being adjustable to accommodate the device to persons of different heights.

in subclass 53, cancel the definition and substitute:

53. Devices under subclass 49 relating to the extremity of the crutch designed to contact the earth or other surface traveled over, the extremity having surface penetrating and non-penetrating elements adapted to be alternatively placed in surface engaging position by operating means extending upwardly into proximity to the hand hold of the crutch.

Search this class, subclass—
55+—for other convertible tips adapted for use on crutches, canes, or the like.

in subclass 54, add:

Search Class—
45—FURNITURE, subclass 137, for pads and feet applicable to articles of furniture.
228—LADDERS, subclass 61+, for additions to the ends of a ladder to prevent it from slipping on, or scarring the surface on or against which it rests.

establish the following subclass definitions:

55. Devices under subclass 54 including surface penetrating and non-penetrating elements adapted to be alternatively placed in surface engaging position.

56. Devices under subclass 55 in which the surface penetrating and non-penetrating elements are positioned on opposite ends of a member carried by the extremity of the cane or the like, the member being adapted to be turned end-for-end.

57. Devices under subclass 55 in which a surface engaging element, when in operative position, overlies or covers at least a portion of the surface engaging face of the other element.

58. Devices under subclass 55 in which the surface penetrating and non-penetrating elements are mounted on the cane or the like for relative movement.

59. Devices under subclass 58 in which the penetrating element is housed within the periphery of the non-penetrating element.

60. Devices under subclass 54 including structure interposed between the surface engag ng face and the cane shaft or the like to take up shock incident to positioning the cane or the like in contact with the surface traveled over.

Search this class, subclass—
49+—for shock-absorbing devices combined with crutch structure.
64—for tips made at least in part of yieldable material, which by their inherent nature will absorb some shock.

61. Devices under subclass 60 including fluid means.

62. Devices under subclass 54 including connecting means between the surface engaging face and the cane shaft or the like permitting the shaft to pivot, rock or swivel relative to said face.

63. Devices under subclass 54 including rollers, balls or wheels adapted to roll along the surface traveled over.

64. Devices under subclass 54 including surface contacting elements containing yieldable material. This subclass also includes means for connecting such elements to the cane shaft or the like.

138, Pipes and Tubular Conduits

in subclass 89, cancel the definition only, and substitute:

89. Subject matter under the class definition relating to pipes or pipe fittings having closures or plugs, or closures and plugs limited by structure to use with pipes.

in subclass 94, cancel the definition, and substitute:

94. Closures and plugs under subclass 89 for the inside opening of a pipe which are insertable through a lateral opening in the pipe.

establish the following subclass definitions:

94.3. Closures under subclass 94 of the type generally known as "line blinds" which are of plate-like form.

(1) Note.—These devices differ from valves in that they have no surrounding housing to prevent leakage of fluid when the closure and seat are moved relative to each other.

Search this class, subclass—
44+—for line blinds combined with flow restrictors.

Search Class—
251—VALVES, subclass 51+, for reciprocating gate valves, and see (1) Note above.

94.5. Closures under subclass 94.3 in which the plates are pivoted.

Search Class—
251—VALVES, subclass 18+, for pivoted gate valves.

167, Medicines, Poisons and Cosmetics

in the class definition, add:

(6) Compositions adapted to preserve and/or improve the appearance of dead bodies of persons in preparation for burial.
(7) Compositions and methods adapted to diagnose a body condition by a biological test.

establish the following subclass definition:

49.5. Compositions of matter intended to preserve and/or improve the appearance of dead bodies of persons in preparation for burial.

(1) Note.—This subclass includes compositions used in undertaking including embalming compositions, tissue fillers, compositions for removing hair from the corpse and other miscellaneous compositions particularly adapted to treat the dead body to preserve the same or otherwise improve the appearance of the corpse.
(2) Note.—This subclass will take processes of preparing or making the compositions classified herein. It will not, however, include processes which are clearly distinct from the composition and which are more specifically provided for elsewhere.
(3) Note.—This subclass will also take processes of treating the dead body or corpse to preserve the same or improve its appearance, which involve no more than the application of the composition.

Search this class, subclass—
89—for compositions of matter for removing hair from the living body.

Search Class—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclass 94.1+, for compositions and processes for treating hides, skins, feathers and other animal tissues with chemicals and fluids, and particularly subclass 94.11, for compositions and processes for treating subcutaneous or internal tissues of animals, fowl, fish or reptiles.
27—UNDERTAKING, subclass 22, for significant or manipulative embalming or preserving methods.
117—COATING: PROCESSES AND MISCELLANEOUS PRODUCTS, subclass 3, for processes of coating biological specimens whether for preservation or ornamentation.

in subclass 78, add:

(1) Note.—Antigens found herein are basically those having medicinal or therapeutic values, although they may in addition have other properties.

Search this class, subclass—
84.5—for compositions and methods of diagnosing a body condition by a biological test. Those antigens useful only in complement fixation tests are considered to be diagnostics and will be found in subclass 84.5.

establish the following subclass definition:

84.5. Compositions of matter and methods adapted to diagnose a body condition or determine the potency of a medicine by a biological test.

(1) Note.—By biological test is meant one that involves a reaction with or an experimentation involving a reaction on an organism (in vivo) to diagnose a condition thereof or a simulation of the same reaction or experimentation outside the organism (in vitro).
(2) Note.—This subclass includes compositions which are generally injected into the animal body to sense or diagnose a body condition by inducing some biological reaction.
(3) Note.—This subclass also includes compositions and methods involving the in vitro testing of body fluids biologically. Thus the agglutination of blood to determine the presence of certain factors as well as the biological typing of blood will be found herein.
(4) Note.—The testing of a body fluid (e. g., urine, blood, sputum) by chemical reagents to determine the presence of specific materials or bodies in the animal body qualitatively or quantitatively is considered chemical testing and is not within the scope of this subclass. For such processes of conducting chemical tests, see Class 23, CHEMISTRY, subclass 230.
(5) Note.—Included within the scope of this subclass are compositions and methods for preparing animal tissues for pathological examination such as compositions and methods for staining and fixing histological tissue specimens.
(6) Note.—See Class 252, COMPOSITIONS, subclass 408, for analytical, testing or indicating compositions used to conduct chemical and/or physicochemical tests.

Search this class, subclass—
50+—for medicinal and therapeutic compositions which, in addition, may have utility in the biological diagnosis of a body condition. Note particularly subclass 78 which provides for antigens. The scope of subclass 78 includes antigens which are useful medicinally or therapeutically. Those antigens which have utility only in complement fixation tests are considered to be diagnostics and will be found in subclass 84.5.

Search Class—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, for the reactive treatment of biological specimens including the treatment of subcutaneous or internal tissues of animals, fowls, fish or reptiles where no biological test is involved.
73—MEASURING AND TESTING, for processes and apparatus for making a test of any kind not provided for in other classes.
128—SURGERY, subclass 2+, for appliances and methods intended to aid in the diagnosis of diseased or abnormal conditions of the body. Methods found in these subclasses generally involve some use of the appliance or device. The appliances per se range from various instruments to patch strips incorporating different allergenic materials to determine the sensitivity of the patient to the allergen.
195—CHEMISTRY, FERMENTATION, subclass 103.5, for processes which include analysis or testing comprising fermentation or qualitative or quantitative testing for fermentability, or fermentative power, which comprises fermentation when the result is positive.

195, Chemistry, Fermentation

in subclass 103.5, add:

(1) Note.—This is the generic home for analysis or testing comprising fermentation.

Search Class—
167—MEDICINES, POISONS AND COSMETICS, subclass 84.5, for compositions and methods adapted to diagnose a body condition or determine the potency of a medicine by a biological test.

223, Apparel Apparatus

in subclass 110, in the definition, before the period insert:

, or devices especially adapted to hold garments to be operated on.

and add:

(1) Note.—The line between this subclass and Class 26, TEXTILES, CLOTH FINISHING, and Class 15, BRUSHING, SCRUBBING AND GENERAL CLEANING, is as follows: Garment holders combined with an operation of the type classified in Class 26 will be classified in Class 26, whereas the subcombination of a holder especially adapted to hold a garment to be operated on will be classified in Class 223, subclass 110, except that if the operation is disclosed as a cleaning operation of the type classified in Class 15, the subcombination of the holder will be classified in Class 15, subclass 268.

and under "Search Class", insert:

15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 268, see (1) Note.
26—TEXTILES, CLOTH FINISHING, see (1) Note.

251, Valves

in the class definition, under "Search Class", cancel the reference to Class 138 and substitute:

138—PIPES AND TUBULAR CONDUITS, subclass 40+, for similar structure where the flow is not cut off entirely, subclass 89+, for non-valve closures and plugs for conduits, especially subclass 94.3+, for line blinds, and see (1) Note thereunder for the line.

252, Compositions

in the class definition, under "Search Class", cancel the reference to Class 167, and substitute:

167—MEDICINES, POISONS AND COSMETICS, for medicinal, insecticidal, antiseptic, biocidal, warfare, cosmetic, undertaking and embalming compositions.

in subclass 408, cancel the definition only, and substitute:

408. Compositions under the class definition specialized and designed for, or peculiar to, use in physical or chemical analysis, testing or indicating, or as warming agents.

and under "Search Class", add:

167—MEDICINES, POISONS AND COSMETICS, subclass 84.5, for compositions adapted to diagnose a body condition or determine the potency of a drug by a biological test.

292, Closure Fasteners

establish the following subclass definition:

251.5. Subject matter under the class definition in which the closures are secured in adjusted position relative to their supports by the magnetic attraction between parts on the closures and supports respectively.

(1) Note.—Magnetic means for operating latch bolts will be found in the "Operating Means" subclasses indented under the specific types of latch bolts.

Search Class—
175—ELECTRICITY, GENERAL APPLICATIONS, subclass 21+, for electromagnets and permanent magnets, and subclass 336+, for electromagnets with armatures.

296, Land Vehicles, Bodies and Tops

in subclass 76, in the definition, cancel "coverings" and substitute *closures*, and cancel "seat" and substitute *seats*.

298, Land Vehicles, Dumping

in subclass 22, cancel "controlled by the vehicle power plant".

315, Electric Lamp and Discharge Devices, Systems

in the class definition, under "(3) Note", cancel the words "Attention is particularly directed to the following classes", and add the following paragraph:

Class 315 provides for electrical systems limited to supplying electric current and/or potential to one or more electronic tubes of the gas or vapor type.

Many of these systems inherently convert A. C. to D. C. or D. C. to A. C. Some are inherently oscillation generators. Where the system is limited by claimed subject matter to supplying a load circuit it is excluded from Class 315. Merely claiming the circuit necessary to connect the anode to the cathode as a load circuit is not sufficient to exclude the system from Class 315. Claiming a load device, either specifically or broadly in the output circuit will exclude the system from Class 315. Claiming subject matter which would not be provided unless the system were to be used for supplying a load device is sufficient to exclude the system from Class 315. For example, reciting means in the output circuit responsive to overload conditions in output circuit to control the system will exclude the system from Class 315. Attention is particularly directed to the following classes:

332, Modulators

in subclass 2, add:

Related Art	Search Class
Microphone With Amplifier	179, sub. 1

M. C. ROSA,
Executive Examiner.

Classification Order No. 133

The following transfers are hereby ordered to take effect on Monday, August 25, 1952:

Class 51, Abrading—
Subclasses 293 through 309 from Division 64 to Division 38.

Class 68, Textiles, Fluid Treating Apparatus—
Subclasses 1 through 240 from Division 38 to Division 29.

Class 106, Compositions, Coating or Plastic—
Subclasses 3 through 32, 123 through 285, and 287 through 311 from Division 64 to Division 38.

Class 260, Chemistry, Carbon Compounds—
Subclasses 709 through 822 from Division 38 to Division 50.

Aug. 18, 1952.

M. C. ROSA,
Executive Examiner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

American Can Company offers the 433 patents listed below for non-exclusive licensing on reasonable terms. Written applications for licenses should be addressed to: Charles H. Erne, Attorney-in-Charge of Patent Division, American Can Company, 100 Park Ave., New York 17, N. Y.

The following 212 patents relate to: Various types of sheet metal and fibrous containers, container attachments, and associated devices, including scored, key-opening, friction, threaded, snap-on, hinged, sifter, pouring, dispensing, display, spraying, vaporizing, venting, compartment, special purpose, specially profiled, reenforced, lined, coated, oil-proofed and all-fibre containers; multiple container assemblies; spools; keys; seam constructions; sealing bands and closures; handles, bails, and attachable dispensing devices; and container-opening devices.

Groups 26 — 63 — 64; 33—31—51—59—73—75—96; 34—99; 40. Reg. Nos. 48,747 through 48,958.

Des. 115,883. Spray Gun or Similar Article. July 25, 1939.

Des. 115,884. Spray Gun or Similar Article. July 25, 1939.

Des. 153,270. Can or Similar Article. Apr. 5, 1949.

Des. 153,591. Can or Similar Article. May 3, 1949.

Des. 155,559. Cosmetic Box or the Like. Oct. 11, 1949.

Pat. 2,010,023. Sheet Metal Container. Aug. 6, 1935.

Pat. 2,012,213. Container. Aug. 20, 1935.

Pat. 2,013,655. Container Pouring Spout. Sept. 10, 1935.

Pat. 2,013,669. Container. Sept. 10, 1935.

Pat. 2,013,675. Container. Sept. 10, 1935.

Pat. 2,015,079. Pouring Spout Attachment for Cans. Sept. 24, 1935.

Pat. 2,017,061. Container Opening Key. Oct. 15, 1935.

Pat. 2,017,062. Container Opening Key. Oct. 15, 1935.

Pat. 2,017,077. Container Opening Key. Oct. 15, 1935.

Pat. 2,017,460. Container and Method of Manufacture. Oct. 15, 1935.

Pat. 2,018,696. Key Opening Container. Oct. 29, 1935.

Pat. 2,022,780. Container. Dec. 3, 1935.

Pat. 2,024,223. Spool and Protector Therefor. Dec. 17, 1935.

Pat. 2,024,227. Container. Dec. 17, 1935.

Pat. 2,025,747. Container. Dec. 31, 1935.

Pat. 2,029,320. Spool and Protector Therefor. Feb. 4, 1936.

Pat. 2,031,623. Pouring Spout Container. Feb. 25, 1936.

Pat. 2,033,931. Oil Dispensing Device. Mar. 17, 1936.

Pat. 2,034,720. Can Cover. Mar. 24, 1936.

Pat. 2,036,276. Metal Shipping Container. Apr. 7, 1936.

Pat. 2,037,746. Container. Apr. 21, 1936.

Pat. 2,037,747. Method of Making Container Closures. Apr. 21, 1936.

Pat. 2,039,374. Container. May 5, 1936.

Pat. 2,040,241. Shipping and Display Container. May 12, 1936.

Pat. 2,042,459. Liquid Dispenser. June 2, 1936.

Pat. 2,042,467. Sealing Means for Containers. June 2, 1936.

Pat. 2,043,253. Container Pouring Spout. June 9, 1936.

Pat. 2,044,791. Spool and Protector Therefor. June 23, 1936.

Pat. 2,045,589. Liquid Dispenser. June 30, 1936.

Pat. 2,045,614. Display Stand. June 30, 1936.

Pat. 2,047,242. Oil Dispenser. July 14, 1936.

Pat. 2,047,951. Container. July 21, 1936.

Pat. 2,051,055. Liquid Dispenser. Aug. 18, 1936.

Pat. 2,054,080. Container. Sept. 15, 1936.

Pat. 2,054,094. Container. Sept. 15, 1936.

Pat. 2,055,493. Container. Sept. 29, 1936.

Pat. 2,056,947. Container. Oct. 13, 1936.

Pat. 2,056,977. Container. Oct. 13, 1936.

Pat. 2,058,468. Container Closure. Oct. 27, 1936.

Pat. 2,058,542. Display Device. Oct. 27, 1936.

Pat. 2,060,444. Vacuum Can. Nov. 10, 1936.

Pat. 2,061,582. Liquid Dispenser. Nov. 24, 1936.

Pat. 2,064,537. Can Body. Dec. 15, 1936.

Pat. 2,072,149. Container. Mar. 2, 1937.

Pat. 2,079,599. Container. May 11, 1937.

Pat. 2,081,925. Orchard Heater. June 1, 1937.

Pat. 2,083,565. Container and Reclosure. June 15, 1937.

Pat. 2,085,054. Container. June 29, 1937.

Pat. 2,086,534. Container. July 13, 1937.

Pat. 2,086,586. Easy Opening Container. July 13, 1937.

Pat. 2,088,605. Container. Aug. 3, 1937.

Pat. 2,094,600. Container. Oct. 5, 1937.

Pat. 2,100,339. Opening Device. Nov. 30, 1937.

Pat. 2,106,175. Bail Container. Jan. 25, 1938.

Pat. 2,108,063. Container. Feb. 15, 1938.

Pat. 2,108,064. Method of Making Container Closures. Feb. 15, 1938.

Pat. 2,109,484. Can Cover. Mar. 1, 1938.

Pat. 2,117,324. Container. May 17, 1938.

Pat. 2,128,953. Container. Sept. 6, 1938.

Pat. 2,128,959. Container. Sept. 6, 1938.

Pat. 2,138,046. Liquid Dispensing Device. Nov. 29, 1938.

Pat. 2,138,844. Liquid Dispenser. Dec. 6, 1938.

Pat. 2,139,660. Container. Dec. 13, 1938.

Pat. 2,141,184. Container. Dec. 27, 1938.

Pat. 2,145,879. Can Carrier and Display Device. Feb. 7, 1939.

Pat. 2,148,480. Container. Feb. 28, 1939.

Pat. 2,153,566. Display Stand. Apr. 11, 1939.

Pat. 2,172,404. Container. Sept. 12, 1939.

Pat. 2,173,093. Container. Sept. 19, 1939.

Pat. 2,173,843. Container Reclosure. Sept. 26, 1939.

Pat. 2,177,589. Ground Spice Container. Oct. 24, 1939.

Pat. 2,178,620. Container. Nov. 7, 1939.

Pat. 2,180,357. Container. Nov. 21, 1939.

Pat. 2,183,595. Container. Dec. 19, 1939.

Pat. 2,185,180. Container. Jan. 2, 1940.

Pat. 2,185,236. Container. Jan. 2, 1940.

Pat. 2,186,940. Container. Jan. 16, 1940.

Pat. 2,186,962. Container. Jan. 16, 1940.

Pat. 2,186,973. Container. Jan. 16, 1940.

Pat. 2,187,735. Container. Jan. 23, 1940.

Pat. 2,188,352. Container Opener. Jan. 30, 1940.

Pat. 2,191,506. Container. Feb. 27, 1940.

Pat. 2,196,206. Container. Apr. 9, 1940.

Pat. 2,200,275. Container. May 14, 1940.

Pat. 2,200,295. Method of Assembling Containers. May 14, 1940.

Pat. 2,210,961. Method of Reforming Bails. Aug. 13, 1940.

Pat. 2,216,110. Can Opening Device. Oct. 1, 1940.

Pat. 2,220,135. Method of Making Slip-Cover Opening Devices. Nov. 5, 1940.

Pat. 2,234,193. Container. Mar. 11, 1941.

Pat. 2,239,716. Spray Nozzle. Apr. 29, 1941.

Pat. 2,239,725. Spool. Apr. 29, 1941.

Pat. 2,241,381. Container. May 13, 1941.

Pat. 2,241,435. Container. May 13, 1941.

Pat. 2,246,533. Container Reclosure. June 24, 1941.

Pat. 2,249,764. Locking Device. July 22, 1941.

Pat. 2,251,926. Container. Aug. 12, 1941.

Pat. 2,258,610. Container. Oct. 14, 1941.

Pat. 2,259,498. Can Body. Oct. 21, 1941.

Pat. 2,259,499. Container Opener. Oct. 21, 1941.

Pat. 2,262,066. Container. Nov. 11, 1941.

Pat. 2,262,753. Container. Nov. 18, 1941.

Pat. 2,262,758. Can Body. Nov. 18, 1941.

Pat. 2,263,573. Container. Nov. 25, 1941.

Pat. 2,264,312. Spraying Device. Dec. 2, 1941.

Pat. 2,264,349. Handle for Pails. Dec. 2, 1941.

Pat. 2,265,154. Container Pouring Spout. Dec. 9, 1941.

Pat. 2,270,879. Can Opening Device. Jan. 27, 1942.

Pat. 2,271,630. Container. Feb. 3, 1942.

Pat. 2,272,204. Can Opener. Feb. 10, 1942.

Pat. 2,275,426. Container. Mar. 10, 1942.

Pat. 2,275,449. Container. Mar. 10, 1942.

Pat. 2,276,292. Container. Mar. 17, 1942.

Pat. 2,283,245. Container. May 19, 1942.

Pat. 2,292,403. Method of Producing Fibre Containers. Aug. 11, 1942.

Pat. 2,292,413. Container. Aug. 11, 1942.

Pat. 2,293,060. Container. Aug. 18, 1942.

Pat. 2,294,393. Container. Sept. 1, 1942.

Pat. 2,295,540. Container. Sept. 15, 1942.

Pat. 2,296,430. Container. Sept. 22, 1942.

Pat. 2,296,848. Container. Sept. 29, 1942.

Pat. 2,298,293. Container. Oct. 13, 1942.

Pat. 2,298,311. Container. Oct. 13, 1942.

Pat. 2,299,090. Container and Method of Producing the Same. Oct. 20, 1942.

Pat. 2,301,212. Container. Nov. 10, 1942.

Pat. 2,303,344. Container Display Stand. Dec. 1, 1942.

Pat. 2,303,359. Container. Dec. 1, 1942.

Pat. 2,304,833. Method of Assembling and Hermetically Sealing Friction Can Parts. Dec. 15, 1942.

Pat. 2,307,028. Container. Jan. 5, 1943.

Pat. 2,307,043. Container. Jan. 5, 1943.

Pat. 2,307,087. Container. Jan. 5, 1943.

Pat. 2,309,111. Dispensing Container. Jan. 26, 1943.

Pat. 2,310,271. Container. Feb. 9, 1943.

Pat. 2,311,001. Container. Feb. 16, 1943.

Pat. 2,311,651. Container Opening Device. Feb. 23, 1943.

Pat. 2,311,660. Can Opener. Feb. 23, 1943.

Pat. 2,311,675. Method of Sealing Fibre Cans. Feb. 23, 1943.

Pat. 2,312,373. Combination Container and Dispenser. Mar. 2, 1943.

Pat. 2,313,059. Container. Mar. 9, 1943.

Pat. 2,313,784. Container. Mar. 16, 1943.

Pat. 2,315,563. Container. Apr. 6, 1943.

Pat. 2,318,603. Container. May 11, 1943.

Pat. 2,323,904. Container. July 13, 1943.

Pat. 2,324,499. Container. July 20, 1943.

Pat. 2,324,500. Container. July 20, 1943.

Pat. 2,325,084. Container. July 27, 1943.

Pat. 2,326,129. Container. Aug. 10, 1943.

Pat. 2,326,191. Container-Opening Key. Aug. 10, 1943.

Pat. 2,326,771. Container. Aug. 17, 1943.

Pat. 2,331,346. Container. Oct. 12, 1943.

Pat. 2,332,524. Container. Oct. 26, 1943.

Pat. 2,332,539. Container. Oct. 26, 1943.

Pat. 2,333,117. Container. Nov. 2, 1943.

Pat. 2,333,645. Container Reclosure. Nov. 9, 1943.

Pat. 2,334,225. Lever Opening Container. Nov. 16, 1943.

Pat. 2,334,759. Container. Nov. 23, 1943.

Pat. 2,339,301. Container. Jan. 18, 1944.

Pat. 2,342,109. Container Body. Feb. 22, 1944.

Pat. 2,343,197. Vacuum Shield for Containers. Feb. 29, 1944.

Pat. 2,344,986. Method of Producing Compartment Containers. Mar. 28, 1944.

Pat. 2,346,165. Container. Apr. 11, 1944.

Pat. 2,346,199. Spool Holder Unit. Apr. 11, 1944.

Pat. 2,346,714. Container. Apr. 18, 1944.

Pat. 2,347,724. Container. May 2, 1944.

Pat. 2,348,750. Container. May 16, 1944.

Pat. 2,352,667. Can Cover. July 4, 1944.

Pat. 2,353,739. Explosive Container. July 18, 1944.

Pat. 2,353,762. Container. July 18, 1944.

Pat. 2,355,074. Container Closure. Aug. 8, 1944.

Pat. 2,355,108. Container. Aug. 8, 1944.

Pat. 2,361,958. Container. Nov. 7, 1944.

Pat. 2,364,105. Handle. Dec. 5, 1944.

Pat. 2,369,188. Container. Feb. 13, 1945.

Pat. 2,371,173. Container. Mar. 13, 1945.

Pat. 2,371,194. Container. Mar. 13, 1945.

Pat. 2,375,248. Container Spout. May 8, 1945.

Pat. 2,390,072. Method of Producing Potential Openings in Fiber Containers or Other Fiber Articles. Dec. 4, 1945.

Pat. 2,394,019. Method of Forming Lever Open Containers. Feb. 5, 1946.

Pat. 2,419,616. Container. Apr. 29, 1947.

Pat. 2,424,807. Piercing Device for Filling Batteries. July 29, 1947.

Pat. 2,427,004. Container Handle. Sept. 9, 1947.

Pat. 2,428,354. Frangible Closure for Containers. Oct. 7, 1947.

Pat. 2,428,371. Container. Oct. 7, 1947.

Pat. 2,428,392. Tear Strip Type Container and Reclosure Therefor. Oct. 7, 1947.

Pat. 2,428,393. End Closure for Tearing Strip Cans. Oct. 7, 1947.

Pat. 2,428,394. Collar Construction for Tear Strip Type of Reclosable Container. Oct. 7, 1947.

Pat. 2,429,984. Valve Closed Container. Nov. 4, 1947.

Pat. 2,430,035. Tear-Strip Type Container and Reclosure Therefor. Nov. 4, 1947.

Pat. 2,430,036. Tear-Strip Type Container and Reclosure Therefor. Nov. 4, 1947.

Pat. 2,433,870. Container Handle. Jan. 6, 1948.

Pat. 2,442,385. Container Handle. June 1, 1948.

Pat. 2,443,185. Container Closure Manufacture. June 15, 1948.

Pat. 2,448,522. Can Cover Remover. Sept. 7, 1948.

Pat. 2,455,938. Method of Making Tubular Container Bodies With Solderless Six-Layer Side-Seams. Dec. 14, 1948.

Pat. 2,456,615. Method of Making Vent Valves for Containers. Dec. 21, 1948.

Pat. 2,478,962. Can-Opening Key. Aug. 16, 1949.

Pat. 2,488,528. Container. Nov. 22, 1949.

Pat. 2,490,791. Container Closure. Dec. 13, 1949.

Pat. 2,495,715. Container and Opening Key. Jan. 31, 1950.

Pat. 2,523,285. Reclosure Container. Sept. 26, 1950.

Pat. 2,546,257. Folding Container Punch. Mar. 27, 1951.

Pat. 2,551,587. Integral Hinge for Containers. May 8, 1951.

Pat. 2,551,615. Container. May 8, 1951.

Pat. 2,564,667. Container. Aug. 21, 1951.

Pat. 2,567,196. Container With Compressible Sealing Gasket and Pryoff Cover. Sept. 11, 1951.

Pat. 2,567,211. Sifter-Closure for Container Selectively Attachable Thereto in Dispensing or Non-Dispensing Position. Sept. 11, 1951.

Pat. 2,579,465. Container With Folded Top Seam. Dec. 25, 1951.

Pat. 2,579,466. Container With Folded Top Seam. Dec. 25, 1951.

The following 199 patents cover machines and methods which are particularly useful in the field of container manufacture, and relate to: Tin plate manufacture; cutting and forming presses; coating, spraying, scoring, slitting, gauging, detecting, sorting, printing, drying, cooling, deoxidizing, washing, sheet feeding, stacking, bodymaking, crimping, threading, soldering, welding, lining, testing, bag opening, bag loading, reforming, and seaming machines; sheet drying ovens; conveyors; control devices; clutches; and driving mechanisms.

Groups 35 — 42 — 43 — 51—61—62—66—69; 36—19. Reg. Nos. 48,959 through 49,157.

Pat. 2,010,816. Apparatus for Reforming Can Bodies. Aug. 13, 1935.

Pat. 2,019,493. Machine for Threading Can Covers. Nov. 5, 1935.

Pat. 2,019,499. Scoring Machine. Nov. 5, 1935.

Pat. 2,019,517. Can Tester. Nov. 5, 1935.

Pat. 2,019,518. Strip Stock Feeding and Gauging. Nov. 5, 1935.

Pat. 2,026,598. Method and Apparatus for Purifying Oil in Tin Coating Machines. Jan. 7, 1936.

Pat. 2,028,798. Method of Lining the Inside of Cans. Jan. 28, 1936.

Pat. 2,034,731. Method of Forming Tubular Bodies. Mar. 24, 1936.

Pat. 2,047,221. Method and Apparatus for Sorting Strip Stock. July 14, 1936.

Pat. 2,047,964. Electric Welding. July 21, 1936.

Pat. 2,054,086. Method of Soldering Can Bodies or the Like. Sept. 15, 1936.

Pat. 2,056,205. Clamping Device. Oct. 6, 1936.

Pat. 2,061,589. Control Device for Can Machinery. Nov. 24, 1936.

Pat. 2,067,922. Method of Coating Cans. Jan. 19, 1937.

Pat. 2,067,943. Press Mechanism. Jan. 19, 1937.

Pat. 2,069,290. Sorting and Counting Device. Feb. 2, 1937.

Pat. 2,071,340. Method of Drawing Fiber Caps. Feb. 23, 1937.

Pat. 2,074,330. Sheet Handling and Feeding Apparatus. Mar. 23, 1937.

Pat. 2,074,348. Method of Treating Fiber Can Parts. Mar. 23, 1937.

Pat. 2,075,847. Art of Drawing. Apr. 6, 1937.

Pat. 2,079,041. Fluid Distribution and Control. May 4, 1937.

Pat. 2,085,737. Can Soldering Machine. July 6, 1937.

Pat. 2,085,765. Method and Apparatus for Spraying Containers. July 6, 1937.

Pat. 2,085,767. Stopping Device for Can Machinery and the Like. July 6, 1937.

Pat. 2,087,974. Method of Coating Cans. July 27, 1937.

Pat. 2,101,083. Press Gauge. Dec. 7, 1937.

Pat. 2,103,270. Can Spraying Machine. Dec. 28, 1937.

Pat. 2,104,038. Sheet Gauging Device. Jan. 4, 1938.

Pat. 2,112,246. Sheet Coating Machine. Mar. 29, 1938.

Pat. 2,114,297. Control for Can-Making Machinery. Apr. 19, 1938.

Pat. 2,119,561. Method of Measuring and Packing Press Articles and Press Attachment Used Therein. June 7, 1938.

Pat. 2,121,045. Viscosity Control. June 21, 1938.

Pat. 2,131,057. Method and Apparatus for Making Can Covers. Sept. 27, 1938.

Pat. 2,145,873. Can End Lining Machine. Feb. 7, 1939.

Pat. 2,148,481. Press Clutch. Feb. 28, 1939.

Pat. 2,158,069. Control Device for Can-Making Machinery. May 16, 1939.

Pat. 2,160,865. Can Holding and Protecting Mechanism. June 6, 1939.

Pat. 2,166,945. Can-Coating Machine. July 25, 1939.

Pat. 2,167,676. Mechanism for Synchronizing Tandem Machines. Aug. 1, 1939.

Pat. 2,176,939. Machine for Treating Metallic Sheets. Oct. 24, 1939.

Pat. 2,179,517. Control Mechanism. Nov. 14, 1939.

Pat. 2,185,223. Coating Machine. Jan. 2, 1940.

Pat. 2,187,740. Apparatus for Producing Can Bodies. Jan. 23, 1940.

Pat. 2,189,783. Coating Machine. Feb. 13, 1940.

Pat. 2,192,924. Printing Method. Mar. 12, 1940.

Pat. 2,196,240. Feeding Device. Apr. 9, 1940.

Pat. 2,200,293. Control Mechanism. May 14, 1940.

Pat. 2,208,587. Method of Drying Printing Inks. July 23, 1940.

Pat. 2,210,925. Weave Control Mechanism. Aug. 13, 1940.

Pat. 2,213,220. Scroll Shear Die. Sept. 3, 1940.

Pat. 2,226,588. Blank Feeding Mechanism. Dec. 31, 1940.

Pat. 2,232,711. Can Testing Apparatus. Feb. 25, 1941.

Pat. 2,234,195. Method of Manufacturing Tin Plate. Mar. 11, 1941.

Pat. 2,241,395. Slitting Machine. May 13, 1941.

Pat. 2,254,250. Apparatus for Reforming Can Bodies. Sept. 2, 1941.

Pat. 2,259,458. Feeding Mechanism. Oct. 21, 1941.

Pat. 2,265,187. Can Bodymaker. Dec. 9, 1941.

Pat. 2,267,710. Sheet Feeding Device. Dec. 30, 1941.

Pat. 2,270,871. Feeding Device. Jan. 27, 1942.

Pat. 2,274,677. Conveying and Treating Apparatus. Mar. 3, 1942.

Pat. 2,275,438. Method of Preparing Sheet Material. Mar. 10, 1942.

Pat. 2,276,471. Method of Conveying and Treating Metallic Sheets. Mar. 17, 1942.

Pat. 2,276,472. Method of Conveying Metallic Sheets. Mar. 17, 1942.

Pat. 2,280,111. Electric Welding. Apr. 21, 1942.

Pat. 2,280,823. Feeding Device. Apr. 28, 1942.

Pat. 2,282,339. Electric Welding. May 12, 1942.

Pat. 2,287,789. Dispensing Device. June 30, 1942.

Pat. 2,290,198. Electro-Mechanical Relay. July 21, 1942.

Pat. 2,294,418. Welding Machine. Sept. 1, 1942.

Pat. 2,294,420. Trimming Die. Sept. 1, 1942.

Pat. 2,295,617. Sheet Metal Treating Machine. Sept. 15, 1942.

Pat. 2,296,171. Method of Producing Sheet Material. Sept. 15, 1942.

Pat. 2,296,868. Mechanism for Driving Tandem Machines. Sept. 29, 1942.

Pat. 2,297,715. Pressure Regulating Device. Oct. 6, 1942.

Pat. 2,302,730. Sheet Metal Treating Machine. Nov. 24, 1942.

Pat. 2,302,731. Sheet Metal Treating Machine. Nov. 24, 1942.

Pat. 2,303,322. Fibrous Container Manufacture. Dec. 1, 1942.

Pat. 2,303,385. Sheet Feeding Device. Dec. 1, 1942.

Pat. 2,304,843. Conveyor Mechanism. Dec. 15, 1942.

Pat. 2,305,655. Sheet Metal Treating Machine. Dec. 22, 1942.

Pat. 2,307,089. Electric Welding Can Body. Jan. 5, 1943.

Pat. 2,311,014. Sheet Treating Machine. Feb. 16, 1943.

Pat. 2,311,682. Automatic Die Press. Feb. 23, 1943.

Pat. 2,311,698. Scoring Machine. Feb. 23, 1943.

Pat. 2,312,357. Sorting Machine. Mar. 2, 1943.

Pat. 2,315,535. Blank Feeder for Can Bodymaker. Apr. 6, 1943.

Pat. 2,316,177. Conveyor. Apr. 13, 1943.

Pat. 2,317,403. Method of Manufacturing Tin Plate. Apr. 27, 1943.

Pat. 2,319,235. Reforming Machine. May 18, 1943.

Pat. 2,319,280. Conveyor. May 18, 1943.

Pat. 2,319,281. Conveyor. May 18, 1943.

Pat. 2,322,221. Soldering Machine. June 22, 1943.

Pat. 2,322,230. Can-Testing Machine. June 22, 1943.

Pat. 2,323,190. Can-Treating Machine. June 29, 1943.

Pat. 2,323,329. Can-Making Machine. July 6, 1943.

Pat. 2,323,351. Control Mechanism. July 6, 1943.

Pat. 2,323,914. Can-Closing Machine. July 13, 1943.

Pat. 2,326,814. Method of Preparing Black Plate for Can Manufacture. Aug. 17, 1943.

Pat. 2,326,815. Method of Making Can Bodies. Aug. 17, 1943.

Pat. 2,327,986. Can-Cleaning Device. Aug. 31, 1943.

Pat. 2,330,229. Can End Testing Machine. Sept. 28, 1943.

Pat. 2,330,235. Notching Mechanism. Sept. 28, 1943.

Pat. 2,330,834. Coating Machine. Oct. 5, 1943.

Pat. 2,337,064. Detecting and Throw-Out Device. Dec. 21, 1943.

Pat. 2,341,552. Nozzle Lining Machine. Feb. 15, 1944.

Pat. 2,342,688. Electrolytic Sheet Treating Apparatus. Feb. 29, 1944.

Pat. 2,344,994. Compound Measuring Device. Mar. 28, 1944.

Pat. 2,345,631. Method of Uniting Cable Sections. Apr. 4, 1944.

Pat. 2,353,184. Apparatus for Gauging Tubular Objects. July 11, 1944.

Pat. 2,355,079. Sheet Slitting Machine. Aug. 8, 1944.

Pat. 2,357,814. Machine for Making Fiber Containers. Sept. 12, 1944.

Pat. 2,357,850. Sheet Feeding Mechanism. Sept. 12, 1944.

Pat. 2,359,745. Conveyor. Oct. 10, 1944.

Pat. 2,359,795. Can Body Forming Machine. Oct. 10, 1944.

Pat. 2,364,080. Drying Oven. Dec. 5, 1944.

Pat. 2,365,678. Oven. Dec. 26, 1944.

Pat. 2,366,728. Feeding and Blanking Die Mechanism. Jan. 9, 1945.

Pat. 2,370,187. Control Mechanism. Feb. 27, 1945.

Pat. 2,370,188. Can Uprighting Device. Feb. 27, 1945.

Pat. 2,373,149. Sheet Feeding and Stacking Apparatus. Apr. 10, 1945.

Pat. 2,374,694. Feeding Device. May 1, 1945.

Pat. 2,375,241. Sheet Stacking Machine. May 8, 1945.

Pat. 2,376,866. Oven. May 29, 1945.

Pat. 2,382,405. Suction Cup. Aug. 14, 1945.

Pat. 2,383,513. Can Closing Machine. Aug. 28, 1945.

Pat. 2,383,523. Flattened Can Body Manufacturing Machine. Aug. 28, 1945.

Pat. 2,383,528. Transfer Mechanism for Can Parts. Aug. 28, 1945.

Pat. 2,386,823. Method of Preparing Tubing for Transportation. Oct. 16, 1945.

Pat. 2,387,736. Pump Device for Machines for Applying Coating Material to Articles Moving in Procession. Oct. 30, 1945.

Pat. 2,387,766. Feeding Mechanism for Container Parts. Oct. 30, 1945.

Pat. 2,390,075. Conveyor for Ovens. Dec. 4, 1945.

Pat. 2,392,403. Sheet Separating and Feeding Mechanism. Jan. 8, 1946.

Pat. 2,394,007. Machine for Making Fiber Containers. Feb. 5, 1946.

Pat. 2,395,497. Feeding Device. Feb. 26, 1946.

Pat. 2,395,527. Feeding Device. Feb. 26, 1946.

Pat. 2,395,834. Drying Oven. Mar. 5, 1946.

Pat. 2,403,994. Spraying Machine. July 16, 1946.

Pat. 2,403,998. Apparatus for Securing a Metallic Annulus. July 16, 1946.

Pat. 2,405,178. Soldering Machine. Aug. 6, 1946.

Pat. 2,405,204. Cutting Device. Aug. 6, 1946.

Pat. 2,406,000. Conveyor Wicket. Aug. 20, 1946.

Pat. 2,412,990. Drying Oven Control. Dec. 24, 1946.

Pat. 2,418,122. Press for Making Metal Handles and Links. Apr. 1, 1947.

Pat. 2,418,142. Bag Loading Machine. Apr. 1, 1947.

Pat. 2,429,982. Can Body Making Machine. Nov. 4, 1947.

Pat. 2,432,525. Drying Oven. Dec. 16, 1947.

Pat. 2,436,409. Machine for Making Can Bodies From Flattened Tubing. Feb. 24, 1948.

Pat. 2,440,692. Cooling Chamber Having Baffles for Directing Air Over Dried Material. May 4, 1948.

Pat. 2,440,701. Body Blank Aligning Device. May 4, 1948.

Pat. 2,442,350. Method and Apparatus for Treating Sheets With a Deoxidizing Medium. June 1, 1948.

Pat. 2,444,463. Method of Producing Can Bodies. July 6, 1948.

Pat. 2,444,465. Method and Machine for Making Can Bodies. July 6, 1948.

Pat. 2,447,528. Container Treating Machine. Aug. 24, 1948.

Pat. 2,448,514. Heat Treating Machine. Sept. 7, 1948.

Pat. 2,452,574. Method of Welding Seam Portions of Electrically Conducting Articles. Nov. 2, 1948.

Pat. 2,452,585. Ratchet Motor Control Mechanism. Nov. 2, 1948.

Pat. 2,453,165. Method of Preparing Tubing for Transportation. Nov. 9, 1948.

Pat. 2,460,273. Method of Producing Can Bodies Having Vented Side Seams. Feb. 1, 1949.

Pat. 2,461,559. Apparatus for Washing the Side Seams of Can Bodies. Feb. 15, 1949.

Pat. 2,462,080. Apparatus for Shaping Containers. Feb. 22, 1949.

Pat. 2,463,576. Can Package Stripping Machine. Mar. 8, 1949.

Pat. 2,469,392. Can Soldering Method and Apparatus. May 10, 1949.

Pat. 2,470,795. Can Stacking Machine. May 24, 1949.

Pat. 2,472,848. Method of Electric Butt Welding Metallic Container Seams. June 14, 1949.

Pat. 2,472,849. Apparatus for Electrically Welding Container Seams. June 14, 1949.

Pat. 2,484,854. Cut-Off Mechanism. Oct. 18, 1949.

Pat. 2,486,415. Blank Feeding Mechanism. Nov. 1, 1949.

Pat. 2,505,004. Reforming Machine. Apr. 25, 1950.

Pat. 2,508,368. Conveyor Mechanism for Up-Ending Articles. May 23, 1950.

Pat. 2,513,337. Can Mechanism. July 4, 1950.

Pat. 2,513,358. Reforming Machine. July 4, 1950.

Pat. 2,515,230. Apparatus for Electric Welding Seam Portions of Electrically Conducting Articles. July 18 1950.

Pat. 2,516,908. Apparatus for Lining Can Ends. Aug. 1, 1950.

Pat. 2,517,574. Apparatus for Electric Welding Side Seam Portions of Can Bodies. Aug. 8, 1950.

Pat. 2,520,175. Liquid Dispensing Machine With Means for Controlling the Pressure at Point of Discharge. Aug. 29, 1950.

Pat. 2,523,350. Machine for Deoxidizing Marginal Edge Portions of Metallic Sheets. Sept. 26, 1950.

Pat. 2,524,846. Bag Filling or Packing Machine. Oct. 10, 1950.

Pat. 2,527,560. Can Testing Heads With Can Shifting Fingers. Oct. 31, 1950.

Pat. 2,530,412. Conveyor With Toggle Locking Feed Dog. Nov. 21, 1950.

Pat. 2,534,221. Conveyor Mechanism for Turning Articles. Dec. 19, 1950.

Pat. 2,539,425. Overload Release Drive Clutch. Jan. 30, 1951.

Pat. 2,539,450. Method of Producing Fiber Tubing. Jan. 30, 1951.

Pat. 2,543,790. Counting Device for Can Testing Machines. Mar. 6, 1951.

Pat. 2,543,802. Sorting Mechanism for Blanks. Mar. 6, 1951.

Pat. 2,544,735. Magnetic Stacking and Packaging Machine for Cans. Mar. 13, 1951.

Pat. 2,545,445. Supply System for Liquid Substances. Mar. 20, 1951.

Pat. 2,547,039. Strip Feeding Machine Having Control for Slack Length in Strips. Apr. 3, 1951.

Pat. 2,551,616. Apparatus for Feeding Can Bodies to Isolated Wiping Stations. May 8, 1951.

Pat. 2,553,547. Can Body Side Seam Soldering Machine With Improved Wiper Mechanism. May 22, 1951.

Pat. 2,556,188. Filling Machine. June 12, 1951.

Pat. 2,558,774. Discharge Conveyor Mechanism for Articles. July 3, 1951.

Pat. 2,561,377. Conveyor Mechanism for Bulk Loading Containers. July 24, 1951.

Pat. 2,561,406. Apparatus for Inspecting Articles With a Movable Spot of Radiant Energy. July 24, 1951.

Pat. 2,561,410. Bag Opening Machine With Upper and Lower Bag Forming Units Disposed in Parallel Relationship. July 24, 1951.

Pat. 2,566,246. Sheet Sorting Machine With Electrical Timing Device. Aug. 28, 1951.

Pat. 2,567,223. Blank Separating and Feeding Device. Sept. 11, 1951.

Pat. 2,571,135. Discharge Conveyer Mechanism for Articles. Oct. 16, 1951.

Pat. 2,585,047. Cap Forming Apparatus With Edge Reforming Control Device. Feb. 12, 1952.

Pat. 2,587,663. Sealing Head Mechanism for Closing and Sealing Bags and Flexible Containers. Mar. 4, 1952.

The following 12 patents cover machines and methods particularly useful to the canning industry and relate to: Can body and cover sterilizing, sterilizing fluid foodstuffs, testing filled cans for vacuum, evaporated milk processing, sealing container vent holes with rubber plugs, granulating and mixing foodstuffs, measuring the consistency of fluid products, and measuring the temperature in sealed containers. Groups 20—23; 35—42—51; 36—13—99. Reg. Nos. 49,158 through 49,169.

Pat. 2,017,079. Apparatus for Sterilizing Container Parts. Oct. 15, 1935.

Pat. 2,036,618. Temperature Measuring Apparatus. Apr. 7, 1936.

Pat. 2,076,163. Mixer. Apr. 6, 1937.

Pat. 2,081,283. Granulator. May 25, 1937.

Pat. 2,087,962. Method of Controlling Viscosity in Evaporated Milk. July 27, 1937.

Pat. 2,097,477. Method of Producing Electrical Disruptive Discharges. Nov. 2, 1937.

Pat. 2,135,489. Method of Controlling Viscosity in Evaporated Milk. Nov. 8, 1938.

Pat. 2,239,726. Device for Measuring Consistency of a Product. Apr. 29, 1941.

Pat. 2,273,037. Sterilizing Device. Feb. 17, 1942.

Pat. 2,301,949. Can Sealing Machine. Nov. 17, 1942.

Pat. 2,319,234. Method of Sealing Containers. May 18, 1943.

Pat. 2,320,390. Can Testing Device. June 1, 1943.

The following 9 patents relate to chemical compositions, and include: Compositions suitable for protectively coating the inside surfaces of containers, compositions suitable as lining compounds for sealing the seams of containers, and a solder fluxing composition. Groups 28—34; 30—31; 32—93; 33—74—75. Reg. Nos. 49,170 through 49,178.

Pat. 2,013,670. Composition for Lining Can Ends. Sept. 10, 1935.

Pat. 2,018,682. Corrosion Inhibition. Oct. 29, 1935.

Pat. 2,052,582. Sealing Gasket. Sept. 1, 1936.

Pat. 2,055,507. Enamel Coating for Cans. Sept. 29, 1936.

Pat. 2,069,247. Can Coating Enamel. Feb. 2, 1937.

Pat. 2,167,638. Coating Composition for Sheet Metal Containers. Aug. 1, 1939.

Pat. 2,313,736. Fluxing Composition. Mar. 16, 1943.

Pat. 2,382,443. Composition for Lining Can Ends. Aug. 14, 1945.

Pat. 2,395,502. Composition for Lining the Joints of Sheet Metal Containers. Feb. 26, 1946.

The following patent relates to a rigid home movie projection screen having a layer of small beadlike particles secured to a reflecting metal base plate by a colorless lacquer to disperse the reflected light rays and thus widen the viewing angle. Group 39—12. Reg. No. 49,179.

Pat. 2,271,614. Projection Screen. Feb. 3, 1942.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 23, 1952

[VOL. 662. No. 4]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 500,274. Morse Boulger Destructor Company, New York, N. Y. Filed Apr. 16, 1946.

VAR—!—FEEDER

The word "Feeder" and the representation of the goods are disclaimed.

For Chemical Feeder Pump Apparatus, and Supply Tanks and Control Mechanisms Therefor.

Claims use since Apr. 27, 1943.

Ser. No. 524,850. American Optical Company, Southbridge, Mass. Filed June 26, 1947.



For Group A: Ballistic Scientific and Ballistic Laboratory Apparatus; Bibliofilm Projectors; Slide, Film, and Opaque Projectors; Optical Instruments for Examining and Counting Particles in Blood, Urine, Milk, and Mold; Camera Lucidas; Colorimeter; Optical Projection Profile Comparators; Microscope Illuminators; Finger Print Magnifiers; Goniometers; Haemacytometers; Hemoglobinometers; Mechanical Hardness Testers; Mechanical and Optical Micrometers; Microscope, Telescope, Condensing, Photographic, and Projection Lenses; Microtomes; Microtome Knives; Spectrometers; Refractometers; Microscopes; Photomicrographic Apparatus and Lenses; Light Polarizing Apparatus; Roof, Porro, Amici, Head, Constant Deviation, and Special Bore Sighting Optical Prisms; Spectrometers; Laboratory Tissue Freezers; Group B: Ophthalmic Absorbtive Lenses; Ophthalmic Aphakic Lenses; Lenses for Use in Determining Size Errors of the Eyes and for the Correction of Such Size Errors; Hardened Ophthalmic Lenses; Lenses for Protecting the Eyes; Lenses and Transparent Plates for Welding Helmets and Shields; Lens Centering Instruments; and Group C: Instruments for Photographing Eye Movement.

Claims use since February 1929.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 607,842. Robert S. Burge, doing business as S. W. Flower Company, Toledo, Ohio. Filed Dec. 19, 1950.

DIAMOND

For Lawn Seeds.

Claims use since on or about Nov. 21, 1885.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 620,729. Friedberg-Grunauer Co., San Francisco, Calif. Filed Oct. 31, 1951.

TRAVELAIRE

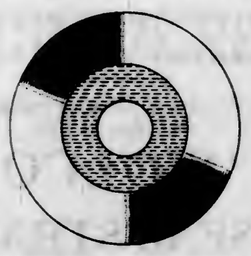
For Hand Luggage—Namely, Handbags and Suitcases.

Claims use since January 1933.

CLASS 5

ADHESIVES

Ser. No. 578,037. Mid-States Gummed Paper Co., Chicago, Ill. Filed Apr. 30, 1949.



The representation of the roll of tape is disclaimed. The trade-mark consists of a grey colored core on which the tape is wound. Applicant claims ownership of Registrations Nos. 381,891, 382,383, and 503,787.

For Gummed Paper Tape, Sold in Rolls.

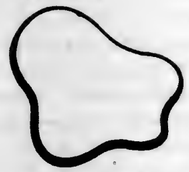
Claims use since Apr. 25, 1949.

Ser. No. 615,310. Dunne Products Company, Miami, Fla. Filed June 18, 1951.



The word "Hose" is disclaimed.
For Adhesive Compound Applied to the Legs of the Wearer for Holding and Positioning Hosiery.
Claims use since June 13, 1951.

Ser. No. 619,807. Dow Corning Corporation, Midland, Mich. Filed Oct. 10, 1951.



For Organosiloxane Adhesives for Varnished Electrical Tapes and for Bonding Elastomers to Metals.
Claims use since Aug. 14, 1951.

Ser. No. 626,214. Miracle Adhesives Corporation, New York, N. Y. Filed Mar. 10, 1952.

Miracle

The words "Brand" and "Thin-Set" are disclaimed. Applicant claims ownership of Registration No. 429,906.
For Ceramic Tile Cement.
Claims use since Jan. 3, 1952.

Ser. No. 627,063. General Gummed Products, Inc., Richmond Hill, N. Y. Filed Mar. 26, 1952.

SEALASTRAP

For Gummed Paper Tape and Gummed Cloth Tape for General Use.
Claims use since February 1952.

Ser. No. 627,064. General Gummed Products, Inc., Richmond Hill, N. Y. Filed Mar. 26, 1952.

"WOLCO"
SEAL-STRAP

The words "Seal-Strap" are disclaimed. Applicant claims ownership of Registration No. 442,155.
For Gummed Paper Tape and Gummed Cloth Tape for General Use.
Claims use since February 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 588,306. Stanley J. Mansfield, Los Angeles, Calif. Filed Nov. 25, 1949.

ZORB

For Desiccants and Odor and Moisture Adsorbents.
Claims use since August 1948.

Ser. No. 605,692. John Stevens, Palisades, N. Y. Filed Oct. 31, 1950.

GRIPIT

For Liquid Preparation Applied to the Hands To Prevent Slipping of Golf Clubs, Bars, and Other Sporting Equipment.
Claims use since July 1, 1950.

Ser. No. 606,272. Chemical Testing Corporation, Long Island City, N. Y. Filed Nov. 13, 1950.



The words "Chemical," "Testing," and "Corporation" are disclaimed.
For Boiler Feed Treatment, in the Nature of a Chemical Which Prevents Boiler Scale and Inhibits Corrosion.
Claims use since Sept. 12, 1950.

Ser. No. 608,769. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Jan. 13, 1951. (Sec. 2f as to "Staley's.")

Staley's

Applicant claims ownership of Registrations Nos. 142,777, 293,391, and others.
For Starch.
Claims use since Mar. 1, 1948, as to the mark shown; and since 1912 as to "Staley's."

Ser. No. 609,619. Aerojet Engineering Corporation, Azusa, Calif. Filed Feb. 5, 1951.

Aeroplex

For Solid Propellant Charges Used in Rocket Motors.
Claims use since Oct. 31, 1950.

Ser. No. 609,913. Cook Chemical Company, Kansas City, Mo. Filed Feb. 10, 1951.



The words "Field & Laboratory Tests" are disclaimed.
For Insecticides.
Claims use since Jan. 22, 1951.

Ser. No. 613,069. Guaranteed Sanitation, Inc., doing business as Guarantee Exterminating Company, New York, N. Y. Filed Apr. 24, 1951.

ROYAL

For Insecticides.
Claims use since November 1928.

Ser. No. 613,137. McCleary Associates, Inc., doing business as Lusterway Sales Co., Memphis, Tenn. Filed Apr. 25, 1951. (Classified in Class 52.)
The word "Luster" is disclaimed.
See this serial number in Class 52 for goods and mark.
Claims use since Feb. 28, 1951.

Ser. No. 616,752. Belmont Industries, Inc., Chicago, Ill. Filed July 21, 1951. (Sec. 2f.)

Belmont's

For Household Deodorants.
Claims use since in or about February 1943.

Ser. No. 622,123. The Procter & Gamble Company, Cincinnati, Ohio. Filed Dec. 5, 1951.

PROFLEX

For Compounded Animal or Vegetable and/or Petroleum Based Product for Processing Fibers or Fabrics.
Claims use since Oct. 30, 1951.

Ser. No. 623,146. Koppers Company, Inc., Pittsburgh, Pa. Filed Jan. 3, 1952.

DBPC

For Polyalkyl Hydroxybenzene—Namely, Di-Tertiary-Butyl-Para-Cresol.
Claims use since Dec. 28, 1948.

Ser. No. 623,148. Lucky Day Chemical Co., Herminie, Pa. Filed Jan. 3, 1952. (Classified in Class 52.)
The words "Fragrance Washing Fluid" are disclaimed.
Applicant claims ownership of Registration No. 296,563.
See this serial number in Class 52 for goods and mark.
Claims use since Nov. 21, 1951, on the mark as shown; and since Mar. 2, 1932, on the words "Lucky Day" and the horseshoe design.

Ser. No. 624,003. Advance Solvents & Chemical Corporation, New York, N. Y. Filed Jan. 24, 1952.

ADVASTAB

Applicant claims ownership of Registrations Nos. 439,076 and 442,851.
For Stabilizers for Vinyl Resins.
Claims use since Dec. 26, 1950.

Ser. No. 625,118. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Feb. 18, 1952.

3M BRAND

The word "Brand" is disclaimed. Applicant claims ownership of Registration No. 542,961.
For Chemical Composition for Desensitizing Unexposed Surface Portions of a Pre-Sensitized Lithographic Plate.
Claims use since Jan. 9, 1952.

Ser. No. 625,148. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

PYROSTEAM

For Liquid Insecticide.
Claims use since Jan. 1, 1932.

Ser. No. 625,156. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

GRAPENE

For Deodorizing Fluid for Use in Drip Machines for Urinals and Water Closets.
Claims use since Nov. 25, 1951.

Ser. No. 625,889. Colgate-Palmolive-Peet Company, Jersey City, N. J. Filed Mar. 4, 1952.

Florient

For Deodorant for Household Use.
Claims use since Feb. 7, 1952.

Ser. No. 626,291. Jefferson Island Salt Company, Louisville, Ky. Filed Mar. 6, 1952. (Sec. 2f as to "Jefferson Island.")



The terms "Sof-Water" and "Salt" are disclaimed. The drawing is lined for the colors red and black. Applicant claims ownership of Registrations Nos. 315,821, 317,936, and others.

For Water Softener Salt.

Claims use since Apr. 3, 1950, as to the mark shown; and since 1929 as to "Jefferson Island."

Ser. No. 626,444. Corn Products Refining Company, New York, N. Y. Filed Mar. 14, 1952.

Orming

For Starch for Industrial Purposes.

Claims use since July 26, 1951.

Ser. No. 627,254. The D-Con Company, Inc., Chicago, Ill. Filed Mar. 29, 1952.



Applicant claims ownership of Registration No. 556,650.

For Deodorizer for Cesspools, Septic Tanks, and Outdoor Toilets.

Claims use since Feb. 14, 1952.

CLASS 7

CORDAGE

Ser. No. 605,710. Anita Beck, doing business under the name and style of Anita Beck Designs, Minneapolis, Minn. Filed Nov. 1, 1950.

Fancies

For Elastic Ribbon-Like Tape Used for Tying Gift Packages.

Claims use since Oct. 24, 1950.

Ser. No. 627,412. Vistex Corporation, New York, N. Y. Filed Apr. 1, 1952.

VISCURL

For Ribbon and Tape for Tying Packages Particularly Gift Packages.

Claims use since Mar. 24, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 625,581. Chemical Linings, Inc., Watertown, N. Y. Filed Feb. 27, 1952.

CHEMFURAL

For Acid Resistant Cement Consisting of Powder and Solution Which, When Blended Together Just Before Use, Are Used in Laying Up Brick or Tile Where an Acid or Alkaline Condition Exists, Particularly in Acid Resistant Tanks of Tile or Brick Linings Required in Industry Where Corrosive Conditions Exist, the Powder Consisting of Petroleum Coke Treated With Acids and the Solution Being Manufactured From a Furfuryl Alcohol Base Resin, the Two Parts Being Sold Conjointly.

Claims use since July 29, 1949.

Ser. No. 625,632. Sakrete, Inc., St. Bernard, Ohio. Filed Feb. 27, 1952.

SAKRETE

Applicant claims ownership of Registration No. 373,104.

For Mixtures of Cement, Sand, and Aggregate; Cement and Sand; and Cement, Sand, and Mortar.

Claims use since July 14, 1936.

Ser. No. 625,668. Elraco Engineering Company, Hoboken, N. J. Filed Feb. 28, 1952.

ELRACO

For Graphite Base Pipe Joint Compound, Refractory Coatings, and High Temperature Cements.

Claims use since November 1946.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 616,272. Atlantic Steel Company, Atlanta, Ga. Filed July 10, 1951.

DIXISTEEL

Applicant claims ownership of Registration No. 171,801.

For Metal Products—Namely, Farm and Poultry Fence, Hog and Cattle Wire Fence, Rectangular and Triangle Mesh Fence, Poultry Netting, Chain Link Fence, Wire Trellis, Wire Lawn Fence, Wrought Iron Fence, Barbed Wire Extension Arms of Metal for Angularly Extending the Top of a Fence Post, Metal Gates, Fence Posts and Highway Marker Posts, Rivets, Wire Nails and Staples, Galvanized Nails, Cement Coated Nails, Lead Head Roofing Nails, Flue Hangers of Metal Bars for Carrying Flue Sections, Galvanized Awning Rods for Supporting Canvas Awnings, Perforated Hanger Strip of Metal for Supporting Pipes, Screw Pin Shackles of Metal for Fastening Chain and Cable Together, Wagon Hardware of Metal—Namely, Rods, Bolts and Strips To Hold a Wagon Together, Welding Flanges of Metal for Making Pipe Connections With the Side of a Tank, Wrought Metal Washers, Metal Cotton Ties, Metal Hand Railing, Wire Bale Ties, Wire Stave Ties, Barbed Wire.

Claims use since Nov. 1, 1950.

Ser. No. 622,026. Pacific Cast Iron Pipe and Fitting Co., South Gate, Calif. Filed Dec. 3, 1951.

PCIFCO

For Plumbing Items—Namely, Cast Iron Soil Pipe, Cast Iron Soil Fittings, and Cast Iron Drainage Fittings.

Claims use since April 1934.

Ser. No. 622,780. Scovill Manufacturing Company, Waterbury, Conn. Filed Dec. 22, 1951. (Sec. 2f.)

SPRINKLEMIST

Applicant claims ownership of Registration No. 289,932.

For Garden Hose Clamps, Quick Connectors for Hose, Y Hose Connectors, Hose Couplings, Goose Necks, Clincher Hose Menders, Hose Nipples, Hose Nozzles, Garden Hose Repair Outfits—Namely, Hose Clamps and Tubular Hose Menders Sold as a Unit, Fan Type Garden Sprayers, Root Irrigators and Various Types of Lawn Sprinklers.

Claims use since May 1931.

Ser. No. 625,773. Tubesales, Los Angeles, Calif. Filed Feb. 29, 1952. (Sec. 2f.)

TUBESALES

For Carbon, Alloy, and Stainless Steel Tubing.

Claims use since Apr. 30, 1946.

CLASS 15

OILS AND GREASES

Ser. No. 619,105. Renuzit Home Products Co., Philadelphia, Pa. Filed Sept. 21, 1951.

THRIFT-LUBE

The word "Lube" is disclaimed. Applicant claims ownership of Registration No. 307,597.

For Lubricating Oil.

Claims use since Jan. 30, 1933.

Ser. No. 626,203. Fuel Oil Company of St. Louis, St. Louis, Mo. Filed Mar. 10, 1952.



For Heating Oils of Petroleum Origin, for Use in Furnaces and Stoves.

Claims use since Mar. 1, 1951.

Ser. No. 626,256. Master Chemical Corporation, Toledo, Ohio. Filed Mar. 11, 1952.

TRIM

The drawing is shaded to indicate the color red.

For Coolant Concentrate to Which Various Amounts of Water May Be Added To Form Cutting Fluids for Use in Metal Grinding, Broaching, Thread Cutting, Tapping, and General or Special Machining.

Claims use since Nov. 30, 1951.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 578,563. Beattie Jet Products, Inc., New York, N. Y. Filed May 11, 1949.

jet+

For Smoking Tobacco.

Claims use since Apr. 28, 1949.

Ser. No. 598,127. United States Tobacco Company, Flemington, N. J., and New York, N. Y. Filed May 25, 1950. (Sec. 2f.)

HORSE SHOE

For Snuff.

Claims use since Apr. 20, 1900.

Ser. No. 611,065. Fleming-Hall Tobacco Co., Inc., New York, N. Y., assignor to United States Tobacco Company, New York, N. Y., a corporation of New Jersey. Filed Feb. 27, 1951. (Sec. 2f.)

Mapleton

Applicant claims ownership of Registrations Nos. 379,505 and 554,776.
For Cigars, Cigarettes, and Smoking Tobacco.
Claims use since July 8, 1937.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 584,282. Leon Libenson, Aspinwall, Pa. Filed Aug. 31, 1949.

ANATHION

For Preparation Used in the Treatment of Rheumatoid Arthritis and Fibrositis.
Claims use since Aug. 23, 1949.

Ser. No. 593,716. Endo Products Inc., Richmond Hill, N. Y. Filed Mar. 10, 1950.

DYSMENONE

For Medicinal Preparation Used for the Relief of Pain.
Claims use since Feb. 1, 1950.

Ser. No. 604,764. Ciba Limited, Basel, Switzerland. Filed Oct. 12, 1950.

CLIRADONE

Applicant claims ownership of Swiss Registration No. 130,630, dated Sept. 16, 1949.
For Pharmaceutical Preparation Having Analgesic Properties.

Ser. No. 609,654. Aram A. Krajian, doing business as Ora-Magic Co., Los Angeles, Calif. Filed Feb. 5, 1951.

ORA-MAGIC

For Antiseptic Pharmaceutical Preparation for the Treatment of the Oral Cavity, Teeth, Gums, and Throat, Especially Pyorrhea, Toothache, Bleeding Gums, Prevention of Tooth Decay, Denture Pains on Gums, Sore Throat, Mouth Ulcers, and the Prevention of Bad Breath.
Claims use since May 10, 1949.

Ser. No. 613,449. Lewis A. Gross, doing business as The Mulcine Company (also known as The Mulcine Co.), Philadelphia, Pa. Filed May 3, 1951.

MULCINE

Applicant claims ownership of Registration No. 414,494.
For Ointment Used as a Dressing for Cuts, Wounds, Burns, and Minor Skin Irritations and for Vitamins in Capsule and Liquid Form.
Claims use since on or about July 1944.

Ser. No. 614,913. Farbwerke Hoechst, Vormals Meister Lucius & Bruning, Frankfurt (Main)-Hoechst, Germany. Filed Apr. 24, 1951.

HOECHST 18 63

The trade-mark consists of a circle having the representation of a bridge bearing the notation "Hoechst 1863" thereon in its lower half, and the representation of a tower in its upper half. The word "Hoechst" is disclaimed apart from the mark as shown. Applicant claims ownership of German Registration No. 602,811, dated Nov. 8, 1950.
For Pharmaceutical Chemicals and Specialties of All Kinds for Medicinal and Veterinary Purposes—Namely, Analgesics, Anesthetics, Antimalarials, Antihistamines, Disinfectants, Sulfa Drugs, Antibiotics, Vaso Constrictors and Dilators, Heart Stimulants, Hormone Preparations, and Vaccines.

Ser. No. 619,351. Onox, Inc., San Francisco, Calif. Filed Sept. 28, 1951.

ŌNOX

For Germicide, Antiseptic, and Skin Toughener Particularly Effective in the Prevention of Athlete's Foot.
Claims use since Aug. 29, 1934.

Ser. No. 619,839. Lafayette Pharmacal Inc., Lafayette, Ind. Filed Oct. 10, 1951.

MULSOPAQUE

For Diagnostic Opaquing Preparation Adapted for Internal Administration.
Claims use since Sept. 26, 1951.

Ser. No. 619,853. Sanford Sales Corporation, New York, N. Y. Filed Oct. 10, 1951.



Applicant disclaims all wording shown in the drawing.
For Cathartic and Laxative Preparation.
Claims use since August 1951.

Ser. No. 620,453. American Cyanamid Company, New York, N. Y. Filed Oct. 25, 1951.

ACHROMYCIN

For Antibiotic.
Claims use since Oct. 5, 1951.

Ser. No. 620,539. Baru Company, Fort Worth, Tex. Filed Oct. 27, 1951.

Fem-San

For Hygienic Douche Powder.
Claims use since Aug. 25, 1951.

Ser. No. 620,811. Edgar M. Lewin, doing business as Lewin Drug Co., San Francisco, Calif. Filed Nov. 2, 1951.

FEM SAN

Applicant claims ownership of Registration No. 264,884.
For Antiseptic Douche Powder and Antiseptic Vaginal Suppository.
Claims use since June 1929.

Ser. No. 620,823. Reed & Carnrick, Jersey City, N. J. Filed Nov. 2, 1951.

Nepritin

Applicant claims ownership of Registration No. 236,377.
For Pharmaceutical Preparation in Tablet Form Useful in the Treatment of Various Disorders of Cardiac and Renal Origin.
Claims use since Oct. 22, 1951.

Ser. No. 621,077. Meyers & Rosser, Dallas, Tex. Filed Nov. 9, 1951.

PURPASAL-C

The letter "C" is disclaimed.
For Enteric Coated Tablets Containing Sodium Salicylate U. S. P., Vitamin C, and Para-Aminobenzoic Acid (as the Sodium Salt), for Rheumatic Fever; Rheumatoid Arthritis; Neuralgia; Myalgias; Arthralgia; Fibrositis; Gout; Osteoarthritis; and Other Conditions Amenable to Salicylate Therapy.
Claims use since May 15, 1951.

Ser. No. 621,581. Karl H. Sautter, doing business as Leo Products, Chicago, Ill. Filed Nov. 23, 1951.

LEOPILLS

For Laxative Preparation for Human Use.
Claims use since Dec. 11, 1933.

Ser. No. 623,824. The Cramer Chemical Co., Gardner, Kans. Filed Jan. 21, 1952.

CRAMERGESIC

For Analgesic Balm.
Claims use since Dec. 15, 1951.

Ser. No. 623,847. Robert S. Neuwirth, Floral Park, N. Y. Filed Jan. 21, 1952.

Pop cillan

The word "Pop" is disclaimed.
For Medicinal Confections, Containing Penicillin or Aureomycin.
Claims use since December 1950.

Ser. No. 624,112. Van Pelt and Brown, Incorporated, Richmond, Va. Filed Jan. 25, 1952.

ORADIOL

Applicant claims ownership of Registration No. 547,494.
For Sex Hormone.
Claims use since Jan. 15, 1952.

Ser. No. 626,741. Laboratory Products Co., Chicago, Ill. Filed Mar. 20, 1952.

Q

For Composition To Curb the Desire for Tobacco Provided in the Form of Tablets.
Claims use since Dec. 29, 1950.

Ser. No. 626,822. Chas. Pfizer & Co. Inc., Brooklyn, N. Y. Filed Mar. 21, 1952.

COTINAZIN

For Chemotherapeutic Agent, Useful Particularly in the Treatment of Tuberculosis.
Claims use since Mar. 14, 1952.

Ser. No. 627,104. Wheeler and Stuckey, Oklahoma City, Okla. Filed Mar. 26, 1952.

COLEASE

For Anti-Spasmodic.
Claims use since January 1947.

Ser. No. 627,166. Astra Pharmaceutical Products, Inc., Worcester, Mass. Filed Mar. 28, 1952.

APTINE

For Antibiotic Agent, Extracted From Tuberculostatic Matter, Effective Against Tubercle Bacilli.
Claims use since Jan. 7, 1952.

Ser. No. 627,169. Bunte Brothers, Chicago, Ill. Filed Mar. 28, 1952.



The portrait is fanciful. Applicant claims ownership of Registration No. 106,562.
For Cough Drops.
Claims use since Apr. 10, 1915.

Ser. No. 627,235. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed Apr. 15, 1952.

COTINAZINA

For Chemotherapeutic Agent, Useful Particularly in the Treatment of Tuberculosis.
Claims use since Apr. 11, 1952.

Ser. No. 627,515. Lafayette Pharmacal, Inc., Lafayette, Ind. Filed Apr. 3, 1952.

PERFECTOCHOL

For Preparation for Internal Use for the Purpose of Facilitating the Taking of X-Ray Pictures of Internal Organs.
Claims use since Feb. 26, 1942.

Ser. No. 627,615. American Cyanamid Company, New York, N. Y. Filed Apr. 5, 1952.

ALDINAMIDA

For Anti-Bacterial Preparation.
Claims use since Mar. 17, 1952.

Ser. No. 628,733. Aktiebolaget Bofors, Bofors, Sweden. Filed Apr. 26, 1952.

Raumanon

Applicant claims ownership of Swedish Registration No. 71,008, dated Nov. 9, 1951.
For Drug for the Treatment of Tuberculosis.

Ser. No. 628,882. The Upjohn Company, Kalamazoo, Mich. Filed Apr. 29, 1952.

Pensone

For Pharmaceutical Preparation for the Treatment of Infectious Diseases.
Claims use since Apr. 10, 1952.

Ser. No. 628,921. Ciba Pharmaceutical Products, Inc., Summit, N. J. Filed Apr. 30, 1952.

PROTANDREN

Applicant claims ownership of Registrations Nos. 331,978 and 378,630.
For Preparation for Hormone Therapy.
Claims use since Jan. 23, 1952.

CLASS 19

VEHICLES

Ser. No. 558,980. The Abel Corporation, Columbus, Ohio. Filed June 11, 1948. (Sec. 2f.)

Fashun-Fit

Applicant claims ownership of Registration No. 377,877.
For Automobile Seat and Slip Covers.
Claims use since Apr. 1, 1939.

Ser. No. 571,662. The Raleigh Cycle Co. Limited, Nottingham, England. Filed Jan. 5, 1949.



Applicant claims ownership of British Registrations Nos. 642,709, dated Dec. 7, 1945, and 680,906, dated July 11, 1949.
For Bicycles, Motor-Bicycles, Tricycles for Adult Use and Structural Parts Thereof.

Ser. No. 578,373. Columbian Steel Tank Company, Kansas City, Mo. Filed May 7, 1949. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 421,878 and 422,632.
For Automotive Express Vehicle Bodies; Boats for Rowing, Sailing, and Motor Propelled Use; Barges; Tank Vehicle Bodies and Tank Trailers.
Claims use since on or about June 1, 1941.

Ser. No. 583,765. Mercantile Stores Company, Inc., Wilmington, Del. Filed Aug. 20, 1949.

S.P.M.

For Bicycles, Baby Carriages, Strollers, and Automobile Slip Covers.
Claims use since May 16, 1947.

Ser. No. 589,530. Raleigh Industries Limited, Nottingham, England. Filed Dec. 17, 1949.



Applicant claims ownership of British Registration No. 677,030, dated Feb. 12, 1949.
For Bicycles, Motor-Bicycles, Tricycles for Adults and Carrier Tricycles and Structural Parts Thereof—Namely, Frames, Wheels, Saddles, Handle Bars, Pedals, Brakes, Chain-Guards, Mudguards, and Forks.

Ser. No. 591,884. Easco Manufacturing Co., Inc., Irvington, N. J. Filed Jan. 31, 1950.

Easco

For Automobile Seat Covers.
Claims use since July 27, 1949.

Ser. No. 593,067. General American Transportation Corporation, Chicago, Ill. Filed Feb. 25, 1950. (Sec. 2f as to "General American.")



For Railway Freight Cars, Refrigerator Cars, Tank Cars, and Hopper Cars, and Automotive Busses.
Claims use since Oct. 1, 1948, on the mark as shown; and since 1916 on the name "General American."

Ser. No. 594,954. Compco Corporation, Chicago, Ill. Filed Mar. 31, 1950.

Compco

For Automobile Accessories, Consisting of Hood and Fender Ornaments, Air Deflectors, Dash Fences, Ventilating Shades, Tissue Dispensers, Fender Flaps, Fender Guides, Fender Trim, Wheel Disks, Automobile Horns, and License Plate Frames.
Claims use since Jan. 19, 1947.

Ser. No. 599,032. Sturmey-Archer Gears Limited, Nottingham, England. Filed June 13, 1950.

DYNOHUB

Applicant claims ownership of British Registration No. 575,271, dated Feb. 19, 1937.
For Combined Bicycle Hubs and Electric Generators.

Ser. No. 601,973. Bertley Company, Incorporated, New York, N. Y. Filed Aug. 9, 1950.



Applicant disclaims all wording and the design with the exception of the word "Bertley." The lining and stippling on the drawing are for shading purposes only.
For Seat and Back Cushion Covers for Automobiles.
Claims use since Jan. 1, 1945.

Ser. No. 602,226. Société Anonyme Dite: Messier, Paris, France. Filed Aug. 15, 1950.



Applicant claims ownership of French Registration No. 395,996, dated Aug. 8, 1949.
For Airplanes and Helicopters; Landing Gears for Aircraft Including Wheels for Such Landing Gears; Braking Systems for Aircraft, Including Hydraulic Brakes, Hose Connections, and Levers; Wheel Brakes for All Types of Vehicles; Resilient Struts, Legs, and Jacks for the Landing Gear of Aircraft; Resilient Shock Absorbers for Aircraft and for All Types of Vehicles; Tailskids for Aircraft; Radiators for Aircraft; Undercarriage and Flaps Retraction Assemblies; Motor Cars and Motor Coaches, and Parts Thereof.

Ser. No. 604,691. Fiat Società per Azioni, Turin, Italy. Filed Oct. 10, 1950.

FIAT

For Rail Vehicles—Namely, Railway Cars and Carriages, Road Vehicles—Namely, Motor Cars, Trucks, Lorries, and Busses, and Airplanes.
Claims use since 1899; and since June 1, 1919, in commerce between foreign nations and the United States.

Ser. No. 606,238. Rudge-Whitworth Limited, Nottingham, England. Filed Nov. 10, 1950.

RUDGE

The words appearing on the drawing are disclaimed. Applicant claims ownership of British Registration No. 651,875, dated Sept. 21, 1946, and United States Registration No. 104,397.

For Bicycles, Motor-Bicycles, Tricycles for Adults, and Their Parts.

Ser. No. 607,446. Northrop Aircraft, Inc., Hawthorne, Calif. Filed Dec. 8, 1950.

Deceleron

For Airplane Control Surfaces—Namely, Wing Flaps.
Claims use since Mar. 14, 1949.

Ser. No. 608,400. The C. S. Card Iron Works Co., Denver, Colo. Filed Dec. 18, 1950. (Sec. 2f.)

Applicant claims ownership of Registration No. 276,903.
For Mine Cars and for the Trucks and Wheels Forming a Part Thereof.
Claims use since July 8, 1929.

Ser. No. 615,291. Clarence M. Shapiro, Chicago, Ill. Filed June 16, 1951.

"WIND-O-MATIC"

The expression "Wind-O" is disclaimed.
For Weather Strip Structure for Automobile Door Windows.
Claims use since June 11, 1951.

Ser. No. 616,119. Packard Motor Car Company, Detroit, Mich. Filed July 5, 1951.

MAYFAIR

For Motor Vehicles and More Particularly Passenger Automobiles.
Claims use since on or about Jan. 1, 1951.

Ser. No. 616,299. Packard Motor Car Company, Detroit, Mich. Filed July 10, 1951.

The trade-mark consists of a series of concentric black circles with a central figure colored red as indicated by the lining, the figure, when rotating appearing to be circular. Applicant claims ownership of Registrations Nos. 147,803, 230,021, and others.
For Automotive Vehicles and More Particularly Passenger Automobiles.
Claims use since at least as early as 1936.

Ser. No. 617,216. Singer Motors Limited, Coventry, England. Filed Aug. 1, 1951. (Sec. 2f.)

SINGER

Applicant claims ownership of British Registration No. B415,904, dated June 4, 1921.
For Motor Cars, Chassis, and Structural Parts Thereof.
Claims use since 1904 and since 1930 in commerce between foreign nations and the United States and among the several States.

Ser. No. 619,369. Societe des Forges & Chantiers de la Mediterranee, Paris, France. Filed Sept. 28, 1951.

STROMBOS

Applicant claims ownership of French Registration No. 484,804, dated Dec. 15, 1950.
For Funnels and Chimneys for Ships and Railway Locomotives.

Ser. No. 619,684. The Skylark Automotive Corporation, Culver City, Calif. Filed Oct. 6, 1951.

Skylark

For Rear Vision Mirrors for Automotive Vehicles.
Claims use since July 1950.

Ser. No. 620,586. Ben-Roy Company, Seattle, Wash. Filed Oct. 29, 1951.

Ben-Roy

For Delivery Truck Bodies.
Claims use since Oct. 10, 1951.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 565,908. Car Controls, Inc., Los Angeles, Calif. Filed Sept. 27, 1948.

CAR CONTROLS INC.

The expression "Car Controls Inc." is disclaimed.
For Electric Distributors, Generators, Generator Armatures, and Electric Starters.
Claims use since Mar. 10, 1946.

Ser. No. 583,039. Warren Products Limited, London, England. Filed Aug. 5, 1949.

ELECTROSAN

Applicant claims ownership of British Registration No. 653,175, dated Oct. 31, 1946.
For Electrical Parts for Electric Toilets—Namely, Electrodes, Control Switches, and Electric Storage Batteries.

Ser. No. 600,903. Motor Wheel Corporation, Lansing, Mich. Filed July 19, 1950.

DUO-THERM

For Electric Motors.
Claims use since Jan. 6, 1944.

Ser. No. 609,925. Imperial Lighting Products Company, Inc., Greensburg, Pa. Filed Feb. 10, 1951.

Anolite

For Electric Lighting Fixtures.
Claims use since Aug. 15, 1950.

Ser. No. 610,595. Panfilo Trombetta, Milwaukee, Wis. Filed Feb. 27, 1951.

RECIPROMOTOR

For Prime Movers of the Electrical Type—Namely, Prime Movers Which, When Connected to a Source of Electrical Energy, Cause Linear Movement of an Armature, Which Movement in Turn May Be Used To Operate Various Devices and Apparatus.
Claims use since about the middle of the year 1932.

Ser. No. 610,596. Panfilo Trombetta, Milwaukee, Wis. Filed Feb. 27, 1951.

SEMOTOR

For Prime Movers of the Electrical Type—Namely, Prime Movers of the Type Comprising an Armature Movable Along the Arc of a Circle Whose Radius of Curvature May Vary From a Very Small Radius to an Infinite Radius, Which Movement in Turn May Be Used To Operate Various Devices and Apparatus When Said Prime Mover Is Connected to a Source of Electrical Energy.
Claims use since 1932.

Ser. No. 612,352. Rahm Instruments, Inc., New York, N. Y. Filed Apr. 6, 1951.

SIGNATRON

For Electro-Mechanical Resonator.
Claims use since Feb. 21, 1951.

Ser. No. 614,657. Ericsson Telephone Sales Corporation, New York, N. Y. Filed June 2, 1951.

Tele-Sec

For Automatic Telephone Answering and Message Recording Machines.
Claims use since May 14, 1951.

Ser. No. 614,945. International Electric Company, Chicago, Ill. Filed June 8, 1951.

WEED CHOPPER

The word "Weed" is disclaimed.
For Electric Fences and Electric Fence Controllers.
Claims use since January 1946.

Ser. No. 615,832. The Haeger Potteries, Inc., Dundee, Ill. Filed June 28, 1951. (Sec. 2f.)

Haeger

Applicant claims ownership of Registration No. 402,031.
For Electric Lamps.
Claims use since 1914.

Ser. No. 617,351. Motorola, Inc., Chicago, Ill. Filed Aug. 4, 1951.

CV

For Television Receiving Sets.
Claims use since June 12, 1951.

Ser. No. 617,843. Knapp-Monarch Company, St. Louis, Mo. Filed Aug. 18, 1951.

KEMCO

Applicant claims ownership of Registration No. 547,994.
For Electrical Appliances—Namely, Electric Stoves and Electric Room Heaters.
Claims use since Nov. 28, 1950.

Ser. No. 618,572. Garod Radio Corporation, New York, N. Y. Filed Sept. 10, 1951.



Applicant claims ownership of Registrations Nos. 224,670, 224,671, and others.
For Radio Receiving Sets, Television Receiving Sets, Automatic Electric Phonographs, and Combinations of Any of Them.
Claims use since December 1923.

Ser. No. 619,317. Thorens Company, New Hyde Park, N. Y. Filed Sept. 27, 1951. (Sec. 2f.)

THORENS

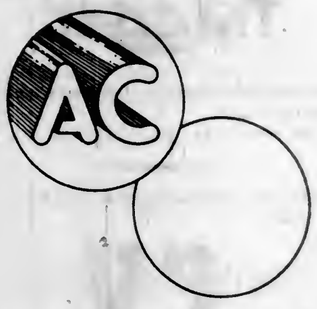
Applicant claims ownership of Registration No. 397,036.
For Electric Motors, Electric Phonographs, Electric Record-Changers, and Radios.
Claims use since 1914.

Ser. No. 619,446. Compagnie Francaise Thomson-Houston, Paris, France. Filed Oct. 1, 1951.

VAPOTRON

Applicant claims ownership of French Registration No. 488,126, dated Feb. 8, 1951.
For Electron-Discharge Tubes.

Ser. No. 620,207. General Motors Corporation, Detroit, Mich. Filed Oct. 19, 1951.



Applicant claims ownership of Registration No. 311,173.
For Spark Plugs, Spark Plug Porcelains, and Ignition Terminals.
Claims use since April 1930 on the mark as shown; and since 1908 as to the letters "AC."

Ser. No. 620,656. The Alliance Manufacturing Company, Alliance, Ohio. Filed Oct. 30, 1951.

TENNA • SCOPE

For Electromagnetic Signal Boosters and Amplifiers.
Claims use since Oct. 12, 1950.

Ser. No. 620,795. Whirlaway Egg Washer Company, Harrisburg, Pa. Filed Nov. 1, 1951.



The words "Egg Washer" are disclaimed. Applicant claims ownership of Registration No. 557,895.
For Electrically Heated Egg Washers.
Claims use since Oct. 1, 1949.

Ser. No. 622,773. Clarostat Mfg. Co., Inc., Dover, N. H. Filed Dec. 22, 1951.

HUMDINGER

For Variable Resistors.
Claims use since May 1928.

Ser. No. 622,944. Lustra Corporation of America, Brooklyn, N. Y. Filed Dec. 28, 1951.

Lustra

Applicant claims ownership of Registrations Nos. 342,107 and 436,358.
For Incandescent Lamps or Bulbs.
Claims use since Aug. 1, 1929.

Ser. No. 624,071. American Felt Company, Glenville, Conn. Filed Jan. 25, 1952. (Sec. 2f.)

Windsor Felt

The word "Felt" is disclaimed.
For Separators for Electric Storage Batteries Made of a Semi-Felted Fabric Including Among Other Fibers, Fibers of Thermoplastic Material.
Claims use since July 1943.

Ser. No. 626,315. Drexel Furniture Company, Drexel, N. C. Filed Mar. 12, 1952.



For Electric Table and Floor Lamps.
Claims use since Oct. 22, 1951.

Ser. No. 626,442. Clayton & Lambert Manufacturing Company, Louisville, Ky. Filed Mar. 14, 1952. (Sec. 2f.)

HOFFMAN

Applicant claims ownership of Registration No. 230,434.
For Electrically Heated Water Heaters.
Claims use since 1931.

Ser. No. 626,443. Clayton & Lambert Manufacturing Co., Louisville, Ky. Filed Mar. 14, 1952.

C&L

Applicant claims ownership of Registration No. 252,594.
For Electrically Heated Water Heaters.
Claims use since March 1946.

CLASS 22

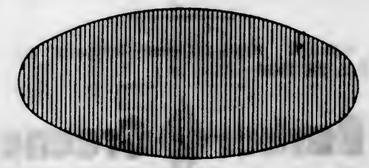
GAMES, TOYS, AND SPORTING GOODS

Ser. No. 520,190. Nat P. Steckler, doing business under the name of E-Z Products, New York, N. Y. Original filed, act of 1905, Apr. 4, 1947; amended to application under act of 1946, Principal Register, July 24, 1948. (Sec. 2f.)

AQUAPRUF

For Ear Drum Protectors and Nose Clips for the Purpose of Closing the Wearer's Nostrils by Pressing the Outer Portion of the Nostrils Against the Nasal Septum for Swimming and Sport Purposes.
Claims use since Sept. 25, 1935.

Ser. No. 589,659. Victor C. Kahle, doing business as Kahle Horizontal Fish Hook Co., South St. Paul, Minn. Filed Dec. 20, 1949.



The drawing is lined for red.
For Fish Hooks.
Claims use since April 1949.

Ser. No. 614,900. D. Sebel and Company Limited, Erith, Kent, England. Filed June 7, 1951.

MOBO TOT-CYCLE

The word "Cycle" is disclaimed. Applicant claims ownership of British Registration No. 695,068, dated Jan. 3, 1951; and United States Registration No. 433,183.
For Bicycles for Children.

Ser. No. 620,341. Golf-O-Rino Co. of America, New York, N. Y. Filed Oct. 23, 1951.

GOLF-O-RINO

The word "Golf" is disclaimed.
For Golf Game Apparatus Principally for Golf Putting.
Claims use since Sept. 1, 1951.

Ser. No. 622,856. The Sun Rubber Company, Barberton, Ohio. Filed Dec. 26, 1951.



The word "Quality" is disclaimed.
For Basketballs, Footballs, Soccer Balls, Water Polo Balls, Volley Balls, and Soft Balls.
Claims use since on or about Oct. 26, 1951.

Ser. No. 622,859. The Sun Rubber Company, Barberton, Ohio. Filed Dec. 26, 1951.

Sun 44
SCHOLASTIC

The word "Scholastic" is disclaimed.
For Basketballs and Footballs.
Claims use since on or about Nov. 6, 1951.

Ser. No. 622,860. The Sun Rubber Company, Barberton, Ohio. Filed Dec. 26, 1951.

Sun 55
VARSITY

The word "Varsity" is disclaimed.
For Basketballs, Soccer Balls, Volley Balls, and Footballs.
Claims use since on or about Oct. 26, 1951.

Ser. No. 622,863. The Sun Rubber Company, Barberton, Ohio. Filed Dec. 26, 1951.

Sun 88
CHAMPION

The word "Champion" is disclaimed.
For Basketballs.
Claims use since on or about Nov. 6, 1951.

Ser. No. 623,512. Harold R. Holmyard, doing business under the duly registered name Tropical Sales, Miami, Fla. Filed Jan. 12, 1952.

SLING-O-MATIC

The word "Sling" is disclaimed.
For Slingshots.
Claims use since Aug. 1, 1950.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 579,386. Adrema Limited, London, England. Filed May 24, 1949.

BRADMA

Applicant claims ownership of British Registration No. 618,806, dated May 11, 1942.

For Addressing Machines and Attachments Therefor—Namely, Listing Machines for Listing Data in One or More Lines; Printing Machines; Embossing Machines; and Parts Thereof.

Ser. No. 608,031. Business Systems, Inc., Philadelphia, Pa., assignor to Scriptomatic, Inc., Philadelphia, Pa., a corporation of Pennsylvania. Filed Dec. 23, 1950.

Scriptograph

For Data Copying Machines—Namely, Addressing Machines and Machines for Transferring Data From Master Stock.

Claims use since Oct. 3, 1950.

Ser. No. 610,801. Roberts & Porter, Inc., Chicago, Ill. Filed Mar. 3, 1951.

SPEED JACKET

The word "Jacket" is disclaimed.

For Fabric Sleeves for Dampening Rollers of Lithographing Machines and Machines for Applying Fabric Sleeves to Dampening Rollers of Lithographic Machines.

Claims use since Oct. 6, 1945.

Ser. No. 614,765. Electric Steel Foundry, Portland, Oreg. Filed June 5, 1951.

FASTBACK

For Hoe Dippers for Excavating Equipment.

Claims use since Apr. 19, 1950.

Ser. No. 617,936. Vapo Systems Company, Maywood, Ill. Filed Aug. 21, 1951.

Vapo

For Apparatus for Air-Spraying a Conditioning Liquid on a Flexible Web Such as Paper, Fabric, and the Like.

Claims use since June 15, 1926.

Ser. No. 620,692. Hans G. Schroeder, doing business as The General Conveyor Company, Long Island City, N. Y. Filed Oct. 30, 1951.

GENERAL

For Conveyor Systems and Parts—Namely, Overhead Trolley Conveyor Systems; Gravity, Skate Wheel and Roller Conveyors; Portable Conveyors; Power Driven Conveyors; Screw Conveyors; Bucket Conveyors and Chain Conveyors.

Claims use since June 1, 1922.

Ser. No. 622,854. Chas. H. Stehling Company, Milwaukee, Wis. Filed Dec. 26, 1951. (Sec. 2f.)

Stehling

For Hide and Leather Working Machines—Namely, Fleshing Machines, Unhairing Machines, Hide Wringing Machines (for Wringing Hair Removed From Hides), Setting Machines (for Straightening, Stretching, and Smoothing Hides and Leather), Three Arm Staking Machines (for Setting, Straightening, and Smoothing Small Pieces of Leather), Leather Brushing Machines, Carding Machines (Used on Sheepskins), Wool Clipping Machines (for Trimming Wool on Sheepskins), Seasoning Machines (for Applying Finish and Color to Leather), Combination Splitting Horse and Stamping Machines (for Splitting and Marking Hides), Portable Paddle Wheel Machines (Agitators for Mixing Tanning Solutions); Chocolate Processing Machinery—Namely, Chocolate Mixing Machines, and Chocolate Pumps; and Screening Machines for Removing Compressible Solids From Washing Solutions and Compacting the Same.

Claims use since July 1908.

Ser. No. 625,416. The Fuller Brush Company, Hartford, Conn. Filed Feb. 23, 1952.

FULLANCHOR

For Mechanically Operated Rotary Brushes for Cleaning and Processing Purposes.

Claims use since Jan. 5, 1952.

Ser. No. 625,652. Barber-Greene Company, Aurora, Ill. Filed Feb. 28, 1952. (Sec. 2f.)

Barber Greene

Applicant claims ownership of Registrations Nos. 541,645 and 524,910.

For Portable and Stationary Belt Conveyors, Belt and Bucket Loaders, Belt and Drag-Type Unloaders, Ditchers, Self-Propelled Ditching Machines, Bituminous Mixing and Maintenance Plants, Rotary-Type Direct Flame Aggregate Driers, Cyclone Dust Collectors Equipped With Blowers, Bituminous Tamping, Vibrating and Leveling Finishers, Crushing and Screening Plants, Bucket Elevators, Apron and Reciprocating Feeders, Snow Loaders and Snow Melting Machinery.

Claims use since Feb. 8, 1946.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 571,929. Andrea Manufacturing Corp., Miami, Fla. Filed Jan. 10, 1949.

Trav-L-Bord

The word "Bord," the representation of an ironing board, and the globe are disclaimed.

For Portable Ironing Boards.

Claims use since August 1947.

CLASS 25

LOCKS AND SAFES

Ser. No. 623,216. Tavaro S. A., Geneva, Switzerland. Filed Jan. 4, 1952.

TAVARO

Applicant claims ownership of Swiss Registration No. 139,303, dated Sept. 20, 1951.

For Locks.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 615,234. Lempco Products, Inc., Bedford, Ohio. Filed June 15, 1951.

LEMPCO

Applicant claims ownership of Registrations Nos. 391,387 and 278,728.

For Wheel Balancing Machines, Including Wheel Spinners Sold as a Unit and Parts Thereof.

Claims use since September 1949.

Ser. No. 615,237. Lempco Products, Inc., Bedford, Ohio. Filed June 15, 1951.

LP

The mark is the letters "L" and "P" arranged as shown. Applicant claims ownership of Registration No. 377,458.

For Wheel Balancing Machines, Including Wheel Spinners Sold as a Unit and Parts Thereof.

Claims use since September 1949.

Ser. No. 616,793. Lee Collins, Los Angeles, Calif. Filed July 23, 1951.

MICROFLAT

The term "Flat" is disclaimed.

For Black Granite Surface Plates Used To Provide an Accurate Plane Surface for Use in Machine Shops for Inspection and Layout Work.

Claims use since Jan. 5, 1951.

Ser. No. 624,961. Magnaflux Corporation, Chicago, Ill. Filed Feb. 14, 1952.

SONIZON

For Apparatus for Measuring Wall Thickness From One Side Only by Means of Ultrasonics.

Claims use since March 1948.

Ser. No. 625,287. Mitropa Corporation, New York, N. Y. Filed Feb. 20, 1952.

Kelvilux

For Photo Electric Cell Actuated Color Temperature Meter.

Claims use since Jan. 28, 1952.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 616,172. The Gruen Watch Company, Cincinnati, Ohio. Filed July 6, 1951.

STARLET

For Watches, Watch Cases, and Watch Movements.

Claims use since June 28, 1951.

Ser. No. 622,929. Endura Time Corporation, New York, N. Y. Filed Dec. 28, 1951.

SAV-A-MATIC

For Clocks and Watches and Parts Thereof.

Claims use since Dec. 26, 1951.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

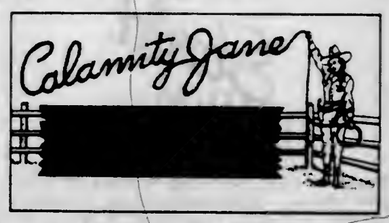
Ser. No. 614,846. Phil G. Ruvelson Inc., Minneapolis, Minn. Filed June 6, 1951.

Builds Art

For Finger Rings.

Claims use since Feb. 1, 1951.

Ser. No. 617,853. Donald Barry Productions, Inc., Los Angeles, Calif. Filed Aug. 20, 1951.



The portrait of the woman is fanciful. "Calamity Jane" is the popular name of Martha Jane Canary Burke, 1852–1903.

For Finger Rings and Bracelets.

Claims use since July 13, 1951.

Ser. No. 620,699. Theta Sigma Upsilon Sorority, Denver, Colo. Filed Oct. 30, 1951.

ΘΣΥ

For Sorority Pins, Finger Rings, and Badges, Made in Whole or in Part of Precious Metal.
Claims use since April 1921.

Ser. No. 623,018. Speidel Corporation, Providence, R. I. Filed Dec. 29, 1951.

Meteor

For Watch Bracelets (Not Including Watches).
Claims use since Dec. 18, 1951.

Ser. No. 623,377. Speidel Corporation, Providence, R. I. Filed Jan. 9, 1952.

FIRST NIGHTER

For Watch Bracelets (Not Including Watches).
Claims use since Dec. 12, 1951.

Ser. No. 627,905. Speidel Corporation, Providence, R. I. Filed Apr. 10, 1952.

Starlet

For Bracelets (Not Including Watches or Watch Bracelets), Neck Chains, Necklaces, Lockets, Pendants, Finger Rings and the Following Item Made in Whole of, in Part of, or Plated With Precious Metals—Namely, Ornamental Barrettes and Safety Pins, All for Use by Babies and Children.
Claims use since March 1949.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 611,586. Stetson China Co., Inc., Lincoln, Ill. Filed Mar. 20, 1951.

American Bride

The word "American" is disclaimed.
For Dinnerware—Namely, Dishes, Plates, Cups, and Saucers Made of Earthenware.
Claims use since Jan. 1, 1951.

Ser. No. 622,729. Southern Potteries, Inc., Erwin, Tenn. Filed Dec. 20, 1951.

Blue Ridge

For China Dinnerware, Bowls, and Plates.
Claims use since October 1941.

Ser. No. 622,730. Southern Potteries, Inc., Erwin, Tenn. Filed Dec. 20, 1951.

Blue Ridge

For China Dinnerware, Bowls, and Plates.
Claims use since October 1941.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 605,775. Yates-American Machine Company, Beloit, Wis. Filed Nov. 1, 1950.

YA

Applicant claims ownership of Registration No. 290,519.
For Heat Transfer Products— Namely, Coolers and Intercoolers.
Claims use since Oct. 1, 1948.

Ser. No. 605,785. The Duro Co., Dayton, Ohio. Filed Nov. 2, 1950.

DURO

Applicant claims ownership of Registrations Nos. 119,502, 133,221, and others.
For Water Softeners of the Mineral Type.
Claims use since about Jan. 1, 1916.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 576,393. Babytowne, Brooklyn, N. Y. Filed Mar. 31, 1949.

Babytowne

The representation of the baby is fanciful.
For Juvenile Furniture—Namely, Cribs, High Chairs, Youth Beds, Mattresses, and Play Yards.
Claims use since Oct. 21, 1940.

Ser. No. 582,184. Peerless Mattress Company, Inc., Lexington, N. C. Filed July 19, 1949. (Sec. 2f—Additional evidence.)

PEERLESS

For Mattresses and Box Springs.
Claims use since 1902.

Ser. No. 604,411. Johnson & Johnson, New Brunswick, N. J. Filed Sept. 30, 1950. (Sec. 2f—Additional evidence.)

Johnson's

Applicant claims ownership of Registrations Nos. 88,088, 92,678, and others.
For Removable Chair Covers.
Claims use since May 1947.

CLASS 33

GLASSWARE

Ser. No. 616,621. Bernad Creations, Ltd., Mount Vernon, N. Y. Filed July 18, 1951.

Bernäd

For Drinking Glasses.
Claims use since October 1948.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 592,113. H. C. Little Burner Co., Inc., San Rafael, Calif. Filed Jan. 31, 1950. (Sec. 2f.)

H.C.Little

For Oil Burners, Floor Furnaces, Basement Furnaces, Circulating Heaters, Air-Conditioning Furnaces, Wall Furnaces, Water Heaters, and Draft Booster Fans for Furnaces.
Claims use since 1927.

Ser. No. 607,323. Dunbar Glass Corporation, Dunbar, W. Va. Filed Dec. 6, 1950. (Sec. 2f as to "Dunbar.")

DUNBAR

Applicant claims ownership of Registration No. 541,004.
For Glass Lamp Chimneys; Glass Candlesticks; Glass Shapes, Bowls, Globes, Cylinders, Domes, Breaks, Fonts, Spindles, Stems, Columns, and Bases Which Are Structural Parts of Non-Electrical Lamps; Glass Chandeliers; Glass Lenses for Lighting Equipment; Glass Light Fixtures; Glass Crucibles; Glass Crucible Covers; Glass Furnace Trays.
Claims use since Nov. 1, 1947, on the mark as shown; and since July 1, 1923, as to "Dunbar."

Ser. No. 609,255. Parks-Cramer Company, Fitchburg, Mass. Filed Jan. 25, 1951.

GRADUMATIC

For Humidifiers for Air Conditioning.
Claims use since May 6, 1950.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 576,216. Maas-Rowe Electromusic Corporation, Los Angeles, Calif., assignor to Maas Organ Company, Los Angeles, Calif., a copartnership. Filed Mar. 28, 1949.



The representation of the chime bars is disclaimed.
For Electrically Operated Musical Percussion Instruments—Namely, Those Utilizing Solid Bars That Have Been Harmonically Tuned by Bending and Grooving and Operated by Electromagnetically Energized Strikers, as Well as Such Instruments Including Electronic Amplifiers.
Claims use since Nov. 15, 1948.

CLASS 37

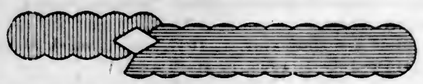
PAPER AND STATIONERY

Ser. No. 576,688. Dennison Manufacturing Company, Framingham, Mass. Filed Apr. 6, 1949.

Sortag

For Partially Printed Tags.
Claims use since Mar. 4, 1949.

Ser. No. 588,282. The Diamond Match Company, New York, N. Y. Filed Nov. 25, 1949.



The drawing is lined for red and blue. Applicant claims ownership of Registration No. 535,427.
For Waxed Paper.
Claims use since Apr. 19, 1949.

Ser. No. 601,338. John D. Seger, doing business as The Sheraton Company, New York, N. Y. Filed July 27, 1950.

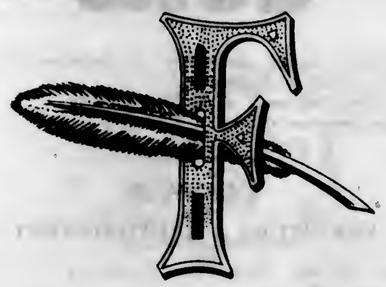
Lady Crinoline

For Stationery—Namely, Personal Note Paper.
Claims use since May 1, 1950.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 565,851. Societe du Figaro, Paris, France. Filed Sept. 9, 1948.



Applicant claims ownership of French Registrations Nos. 141,674, dated Dec. 5, 1912, and 386,345, dated June 2, 1948.
For Newspapers, Books, Periodicals, Circulars, Tickets, Photographs, Greeting Cards, Announcement Cards, and Cards of Invitation.

Ser. No. 623,641. Blue Grass Lodge No. 4, Fraternal Order of Police, Lexington, Ky. Filed Jan. 16, 1952.

BADGE 'N BLUE

For Quarterly Publication.
Claims use since Mar. 1, 1951.

Ser. No. 623,677. Publishers Syndicate, Chicago, Ill. Filed Jan. 16, 1952.

BLADE WINTERS

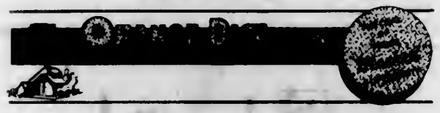
The name "Blade Winters" is that of a fictitious person.
For Comic Strip.
Claims use since Sept. 27, 1951.

Ser. No. 624,786. Lane Publishing Co., Menlo Park, Calif. Filed Feb. 11, 1952.

Western Living

For Monthly Magazine.
Claims use since Jan. 18, 1952.

Ser. No. 625,023. Payne Coal Sales Company, Inc., Wilkes-Barre, Pa. Filed Feb. 15, 1952.



The words "The Coal of Trade 'Marked' Superiority" are disclaimed. The drawing is lined for orange. Applicant claims ownership of Registrations Nos. 294,396 and 301,107.
For Publication Issued From Time To Time.
Claims use since November 1950 in its present form; and since Jan. 15, 1932, as to "The Orange Discourse."

Ser. No. 625,220. Television Guide, Inc., New York, N. Y. Filed Feb. 19, 1952.

SCREENING THE SPORTS

The word "Sports" is disclaimed.
For Column in Printed Periodicals and Magazines.
Claims use since Feb. 22, 1951.

Ser. No. 625,221. Television Guide, Inc., New York, N. Y. Filed Feb. 19, 1952.



YOUR TV Investigator

The letters "TV" are disclaimed. The lining on the drawing is not intended to represent color.
For Column in Printed Periodicals and Magazines.
Claims use since on or about Jan. 25, 1951.

Ser. No. 625,223. Television Guide, Inc., New York, N. Y. Filed Feb. 19, 1952.

KIDS KORNER

For Column in a Periodical.
Claims use since on or about Dec. 4, 1948.

Ser. No. 625,315. Television Guide, Inc., New York, N. Y. Filed Feb. 19, 1952.

TV Clinic

The letters "TV" are disclaimed.
For Column in a Periodical.
Claims use since on or about Jan. 16, 1952.

Ser. No. 625,604. Kaumagraph Company, Wilmington, Del. Filed Feb. 27, 1952.

decoraids

For Decorative Dry Transfers.
Claims use since Feb. 6, 1952.

Ser. No. 625,993. National Comics Publications, Inc., New York, N. Y. Filed Mar. 5, 1952.

THE MYSTERIOUS STRANGER

For Periodical Publication.
Claims use since Feb. 14, 1952.

CLASS 39

CLOTHING

Ser. No. 562,574. Phillips-Jones Corporation, New York, N. Y. Filed July 30, 1948. (Sec. 2f.)

VAN GARDE

For Dress Shirts, Negligee Shirts, Work Shirts, Sport Shirts, and Parts Thereof, To Wit, Neckbands, Cuffs, and Shirt Fronts; Pajamas; Underwear; Handkerchiefs; Neckties; and Hosiery, for Men, Women, Boys, and Girls.
Claims use since Sept. 16, 1927.

Ser. No. 563,772. Boston Junior Deb Co., Boston, Mass. Filed Aug. 20, 1948.

"Judy Lane"

For Children's and Teen-Age Sportswear—Namely, Coats, Jackets, Dresses, Skirts, Shorts, Blouses, Sweaters, and Slacks.
Claims use since Jan. 1, 1940.

Ser. No. 577,173. Edmont Manufacturing Company, Coshocton, Ohio. Filed Apr. 15, 1949.

NEOX

For Work Gloves, Made of Fabric With a Coating of Rubber or Rubber-Like Material.
Claims use since Dec. 24, 1948.

Ser. No. 582,729. Herald Knitwear Co., Inc., New York, N. Y. Filed July 30, 1949.

Huddlespun

Applicant claims ownership of Registration No. 331,387.
For Knitwear—Namely, Sweaters, Suits, Dresses, Scarfs, and Skirts.
Claims use since Sept. 10, 1934.

Ser. No. 593,683. Phillips-Jones Corporation, New York, N. Y. Filed Mar. 9, 1950.

VAN DEAN

The name "Van Dean" is fanciful.
For Men's and Boys' Dress, Sport, and Work Clothing and Parts Thereof—Namely, Outer Dress Shirts, Outer Sport Shirts, Outer Work Shirts, Collars, Pajamas, and Neckties.
Claims use since Feb. 25, 1950.

Ser. No. 597,979. Schoenfeld Neckwear Company, Inc., Seattle, Wash. Filed May 23, 1950. (Sec. 2f.)

Fashion Craft

For Neckties and Cravats.
Claims use since October 1905.

Ser. No. 599,355. Vinton's, Menomonie, Wis. Filed June 17, 1950.

VINTON'S Poriqinal Pansies

The drawing is lined for purple and yellow. The words "Vinton's" and "Original" are disclaimed.
For Ladies' Brief Panties.
Claims use since Oct. 15, 1949.

Ser. No. 604,039. Seneca Knitting Mills Co., Inc., Seneca Falls, N. Y. Filed Sept. 26, 1950.

Seneca

For Hosiery and Slipper Socks for Men, Women, Boys, and Girls.
Claims use since 1924.

Ser. No. 607,353. Jacob Rechtschaffer, doing business under the name Jay Rechtschaffer, Newburgh, N. Y. Filed Dec. 6, 1950.

JAY-ARR

For Dresses, Smocks, and Brunch Coats, for Women, Misses, and Children.
Claims use since 1916.

Ser. No. 607,743. Dominique France, Inc., New York, N. Y. Filed Dec. 16, 1950.



Dominique France

The representation of the neckties and scarves and the word "France" are disclaimed. The pictorial representations of the two figures are fanciful.
For Men's Neckties and Scarves.
Claims use since Sept. 21, 1949.

Ser. No. 610,048. Frank J. Doherty, doing business under the name Doherty Hosiery Co., New York, N. Y. Filed Feb. 14, 1951.

BONNIE MIST

For Women's and Girls' Hosiery.
Claims use since July 1, 1950.

Ser. No. 611,251. Acclaim Hosiery Mills, Inc., High Point, N. C. Filed Mar. 14, 1951.

LAKESHORE

For Ladies' Hosiery.
Claims use since Jan. 10, 1951.

Ser. No. 611,848. Lubin-Weeker Co., Inc., New York, N. Y. Filed Mar. 27, 1951.

ZERO-KNIT

The word "Knit" is disclaimed.
For Men's and Boys' Pajamas.
Claims use since Sept. 28, 1950.

Ser. No. 612,261. Jones, Brown, Abrams Co., doing business under the name Shirlynn Manufacturing Co., Dallas, Tex. Filed Apr. 5, 1951.

Shirlynn

For Women's and Misses' Skirts, Blouses, Jackets, Two-Piece Dresses, Shorts, and Halters.
Claims use since January 1948.

Ser. No. 614,146. Hart, Schaffner & Marx, Chicago, Ill. Filed May 21, 1951.

Pan-American

For Men's Suits Consisting of Coats, Pants, and Vests, and Overcoats and Topcoats.
Claims use since Sept. 26, 1940.

Ser. No. 614,384. E. Gordon & Co., Inc., Philadelphia, Pa. Filed Mar. 30, 1951.

Janet Lynn

The name "Janet Lynn" is fanciful. Applicant claims ownership of Registration No. 428,332.
For Children's Dresses, Women's Dresses, Brunch Coats, and Housecoats.
Claims use since Dec. 14, 1945.

Ser. No. 613,114. Goldstein Millinery Company, Chicago, Ill. Filed May 31, 1951.

Joal DE LUXE NEW YORK

The words "De Luxe" and "New York" are disclaimed. Applicant claims ownership of Registration No. 327,574.
For Ladies' Hats and Particularly for Women's and Misses' Sport Hats.
Claims use since Feb. 1, 1940.

Ser. No. 615,719. Oomphies, Inc., New York, N. Y. Filed June 26, 1951.

CLOUDHOPPERS

For Women's Casual Shoes.
Claims use since February 1950.

Ser. No. 615,802. John B. Stetson Company, Philadelphia, Pa. Filed June 27, 1951. (Sec. 2f.)

Mallory

Applicant claims ownership of Registration No. 212,132.
For Men's Hats, Caps, Dress Shirts, Sport Shirts, Pajamas, Shorts, Ties, and Handkerchiefs.
Claims use since Jan. 2, 1895.

Ser. No. 617,394. Gaylord Products, Incorporated, Chicago, Ill. Filed Aug. 7, 1951.

Permanized

For Hair Nets.
Claims use since Feb. 22, 1951.

Ser. No. 617,912. Milo S. Goldenberg & Co., New York, N. Y. Filed Aug. 21, 1951.

Milox

The dots appearing in the letters of the word "Milox" are for shading only.
For Bow Ties and Necktie Bands.
Claims use since Aug. 14, 1951.

Ser. No. 618,337. Ballantyne of Peebles, Incorporated, New York, N. Y. Filed Sept. 4, 1951. (Sec. 2f.)

BALLANTYNE of Peebles

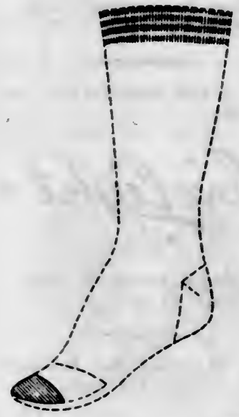
The words "Of Peebles" are disclaimed. Applicant claims ownership of Registrations Nos. 516,660 and 516,661.
For Sweaters and Hosiery for Men, Women, and Boys.
Claims use since Aug. 14, 1946.

Ser. No. 618,636. Interwoven Stocking Company, New Brunswick, N. J. Filed Sept. 11, 1951.



The drawing is lined for green. The mark consists of the color green applied all around the section located adjacent to the point of the toe of the sock and extending a short distance back from the point of the toe. Applicant claims ownership of Registration No. 248,657.
For Hosiery for Men, Boys, and Children.
Claims use since December 1924.

Ser. No. 618,638. Interwoven Stocking Company, New Brunswick, N. J. Filed Sept. 11, 1951.



The drawing is lined for green. The trade-mark consists of the color green applied to the section located adjacent to the point of the toe of the stocking comprising a forward portion conforming to the shape of the toe and a narrower rearwardly extending portion. Applicant claims ownership of Registration No. 245,085.
For Hosiery for Men, Boys, and Children.
Claims use since Mar. 30, 1927.

Ser. No. 620,260. Robert Kirk, Ltd., San Francisco, Calif. Filed Oct. 20, 1951.

THE LONDON-MIDLANDS

The word "London" is disclaimed.
For Men's Pajamas, Men's Underwear Shorts and Shirts, and Men's Bathrobes.
Claims use since January 1950.

Ser. No. 620,261. Robert Kirk, Ltd., San Francisco, Calif. Filed Oct. 20, 1951.

LONDON TOWERS

The word "London" is disclaimed.
For Men's Broadcloth Dress Shirts, Men's Sport Shirts, Men's Underwear Shorts and Shirts, and Men's Pajamas.
Claims use since October 1950.

Ser. No. 620,361. Parkway Textile Company, Inc., North Wilkesboro, N. C. Filed Oct. 23, 1951.

Nancy King

"Nancy King" is fanciful.
For Ladies' and Children's Panties.
Claims use since Oct. 4, 1950.

Ser. No. 621,094. Webster Company, Inc., Scranton, Pa. Filed Nov. 9, 1951.

NYL GAB

The word "Gab" is disclaimed.
For Men's and Boys' Trousers and Slacks.
Claims use since Dec. 28, 1949.

Ser. No. 621,828. L & W Brassiere Co., New York, N. Y. Filed Nov. 29, 1951.

Lovelight

For Brassières, Girdles, and Garter Belts.
Claims use since Sept. 24, 1948.

Ser. No. 623,036. American Fox Breeders Association, Burlington, Wis. Filed Jan. 2, 1952.

Norama

For Fur Garments—Namely, Capes and Stoles.
Claims use since Nov. 21, 1951.

Ser. No. 623,056. Kabo, Inc., Chicago, Ill. Filed Jan. 2, 1952.

SLIMATION

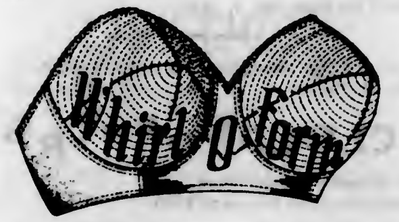
The word "Slim" is disclaimed.
For Girdles.
Claims use since Nov. 26, 1951.

Ser. No. 624,406. Foster-Hochberg Manufacturing Company, Inc., Seattle, Wash. Filed Feb. 1, 1952.

Meet the Mrs

For Maternity Sports Clothes—Namely, Bras, Shorts, Pedal Pushers, Skirts, Slacks, and Jackets.
Claims use since Jan. 18, 1952.

Ser. No. 625,368. Irving E. Pecknay, doing business under the name of Variety Bra, New York, N. Y. Filed Feb. 21, 1952.



The representation of the goods and the word "Form" are disclaimed.
For Brassières.
Claims use since December 1951.

Ser. No. 625,608. Little Bo Peep Kiddie Co., Inc., New York, N. Y. Filed Feb. 27, 1952.

EASY SQUEEZY PANTY

The word "Panty" is disclaimed.
For Baby Panties.
Claims use since Jan. 23, 1952.

Ser. No. 625,929. Van Raalte Company, Inc., New York, N. Y. Filed Mar. 4, 1952.

JAMETTE

For Women's and Misses' Underwear.
Claims use since Jan. 2, 1936.

Ser. No. 626,089. Lee's Dresses Inc., Kansas City, Mo. Filed Mar. 7, 1952.

Travables

For Women's and Misses' Dresses.
Claims use since Feb. 25, 1952.

Ser. No. 626,205. The Glemby Company, Inc., New York, N. Y. Filed Mar. 10, 1952.

INVISI-MESH

The word "Mesh" is disclaimed. Applicant claims ownership of Registrations Nos. 341,635, 350,494, and 526,318.
For Hair Nets.
Claims use since Jan. 16, 1952.

Ser. No. 626,485. Womble-Campbell Mfg. Co., Hereford, Tex. Filed Mar. 14, 1952.

Her-Tex

For Women's, Misses', and Children's Slips, Panties, Pajamas, and Night Gowns.
Claims use since Dec. 9, 1951.

Ser. No. 627,184. Robert J. Hausman, Inc., New York, N. Y. Filed Mar. 28, 1952.

POLLY PIGTAILS

For Children's Slips, Panties, Pajamas, Gowns, Robes.
Claims use since October 1947.

Ser. No. 627,374. William W. Artzt, New York, N. Y. Filed Apr. 1, 1952.

KAPART

For T-Shirts, Vests, Cardigans, Undershirts, and Drawers for Men, Women, and Children.
Claims use since on or about Mar. 17, 1952.

Ser. No. 627,499. Dawnelle, Inc., New York, N. Y. Filed Apr. 3, 1952.

LIGNETTE

For Ladies' and Misses' Gloves of Leather, Fabric, and Combinations Thereof.
Claims use since Jan. 2, 1952.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 603,547. Rockford Textile Mills, Inc., Rockford, Ill. Filed Sept. 14, 1950. (Sec. 2f as to "Dunderry.")

dunderry of rockford

The word "Rockford" is disclaimed. Applicant claims ownership of Registration No. 519,300.
For Textile Fabrics Made of Cotton, Wool, and Synthetic Fibers.
Claims use since August 1950 as to the mark shown: and since Feb. 24, 1930, as to "Dunderry."

Ser. No. 603,974. N. V. Nederlandsche Wolspinnerij, Leiden, Netherlands. Filed Sept. 14, 1950.

Neveda

Applicant claims owenrship of Dutch Registration No. 67,096, dated Sept. 19, 1934.
For Knitted Fabrics of Wool and Wool Combined With Cotton, Silk, Synthetic Fibres.

Ser. No. 616,317. William Heller, Incorporated, New York, N. Y. Filed July 11, 1951.

JERLIDA

For Knitted Piece Goods of Cotton, Wool, and Synthetic Fibers.
Claims use since 1939.

Ser. No. 616,419. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed July 13, 1951.

Estrel

For Piece Goods Made of Acetate Yarn or Staple Fiber in Mixtures With Cotton, Wool, Nylon, and Other Synthetic Fibers.
Claims use since June 27, 1951.

Ser. No. 620,711. Alamac Knitting Mills, Inc., New York, N. Y. Filed Oct. 31, 1951.

Thalspun

For Knitted Fabrics of Combination of Synthetic and Wool Fibers.
Claims use since Dec. 18, 1950.

Ser. No. 623,368. Safie Bros. Co. Inc., New York, N. Y. Filed Jan. 9, 1952.



222

For Cotton and Synthetic Fiber Sheeting.
Claims use since October 1948.

Ser. No. 624,221. Sidney Blumenthal & Co., Inc., New York, N. Y. Filed Jan. 29, 1952.

BEAVERTEX

Applicant claims ownership of Registration No. 139,877.
For Pile Fabrics in the Piece of Cotton and Wool.
Claims use since June 15, 1950.

Ser. No. 624,661. Osias Schachter, New York, N. Y. Filed Feb. 7, 1952.



The Word "Fabrics" and the representation of the fabrics are disclaimed.
For Textile Fabrics of Silk, Wool, and Synthetic Fibers.
Claims use since June 20, 1950.

Ser. No. 624,705. Prentiss-Lane, Inc., New York, N. Y. Filed Feb. 8, 1952.

"KRINKLELANE"

For Textile Fabrics of Cotton.
Claims use since Oct. 1, 1951.

Ser. No. 624,980. Stoffel & Co., New York, N. Y. Filed Feb. 14, 1952.

IRISATIN

Applicant claims ownership of Registration No. 536,537.
For Cotton Fabrics in the Piece Thereof.
Claims use since Feb. 1, 1951.

Ser. No. 625,058. Bell Textile Company, Inc., New York, N. Y. Filed Feb. 16, 1952.

CORDO-WALE

The term "Wale" is disclaimed.
For Chenille Fabrics in the Piece and Chenille Bedspreads.
Claims use since Jan. 15, 1952.

Ser. No. 629,189. Consolidated Factors, Monterey, Calif. Filed May 5, 1952.

SEA DIAMOND

The word "Sea" is disclaimed.
For Fish Netting.
Claims use since Oct. 3, 1951.

CLASS 43

THREAD AND YARN

Ser. No. 624,995. Botany Mills, Inc., Passaic, N. J. Filed Feb. 15, 1952.



Applicant claims ownership of Registration No. 331,521.
For Hand Knitting Yarns.
Claims use since Mar. 19, 1935.

Ser. No. 628,320. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

ALADDIN

For Thread.
Claims use since Sept. 1, 1951.

Ser. No. 628,325. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

BUCCANEER

For Thread.
Claims use since Sept. 1, 1951.

Ser. No. 628,327. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

CORDEX

For Thread.
Claims use since Sept. 1, 1951.

Ser. No. 628,331. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

FLAGSHIP

For Thread.
Claims use since Sept. 1, 1951.

Ser. No. 628,333. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

HERALD

For Thread.
Claims use since Sept. 1, 1951.

Ser. No. 628,334. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

INTREPID

For Thread.
Claims use since Sept. 1, 1951.

Ser. No. 628,338. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

SPARTAN

For Thread.
Claims use since Sept. 1, 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 593,424. The Medex Supply Company, Denver, Colo. Filed Mar. 4, 1950. (Sec. 2f—Additional evidence.)

FLEXIBLE KONE

For Pessaries.
Claims use since Aug. 15, 1933.

Ser. No. 620,400. Henry Cohan, New York, N. Y. Filed Oct. 24, 1951.



The representation of the lock is disclaimed.
For Surgical Brace Joint or Lock.
Claims use since Sept. 7, 1951.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 575,916. Mynor Pty. Limited, Mosman, near Sydney, Australia. Filed Mar. 23, 1949.

MYNOR

Applicant claims ownership of Australian Registration No. 90,321, dated June 29, 1948.
For Non-Alcoholic Maltless Soft Drinks, and Essences, Syrups, and Essential Oils Used in Making the Same.

Ser. No. 597,134. The Delaware Punch Company of America, San Antonio, Tex. Filed May 9, 1950. (Sec. 2f.)



The words "Delicious" and "Punch" are disclaimed.
Applicant claims ownership of Registration No. 122,196.
For Non-Alcoholic Maltless Beverages Sold as Soft Drinks and Not Used as or Sold for the Same Purposes as Grape Juice.
Claims use since Jan. 1, 1939.

Ser. No. 612,927. Pacific Brewing and Malting Co., also doing business as Calso Water Co., San Francisco, Calif. Filed Apr. 20, 1951.

Oh! oh! you need
Calso

Applicant claims ownership of Registration No. 109,714.
For Carbonated Water.
Claims use since Jan. 2, 1949.

Ser. No. 613,887. Kathryn C. Spielmann, Park Ridge, Ill., assignor to Deri-del Inc., Ontario, Calif., a corporation of California. Filed May 15, 1951.

Deri-del

For Non-Carbonated, Non-Alcoholic Maltless Soft Drink and a Concentrate for Making the Same.
Claims use since May 10, 1951.

Ser. No. 618,271. Magnus, Mabee & Reynard, Inc., New York, N. Y. Filed Aug. 24, 1951.

MAGNA

For Liquid Flavors Consisting of Essential Oils and Concentrated Essences Used in Making Non-Alcoholic Maltless Soft Drinks.
Claims use since Aug. 1, 1946.

Ser. No. 618,273. Magnus, Mabee & Reynard, Inc., New York, N. Y. Filed Aug. 24, 1951.



The surname "Magnus" is disclaimed. Applicant claims ownership of Registration No. 295,807.
For Liquid Flavors Used in Making Non-Alcoholic Maltless Soft Drinks.
Claims use since Aug. 1, 1946.

Ser. No. 621,064. Indian Summer, Inc., Evansville, Ind. Filed Nov. 9, 1951.

INDIAN SUMMER

For Sweet Apple Cider.
Claims use since Sept. 14, 1951.

Ser. No. 624,143. Jean Marn, Los Angeles, Calif. Filed Jan. 28, 1952.

VIOR

For Concentrate Used in Making an Orange-Flavored Maltless Soft Drink.
Claims use since on or about Sept. 8, 1951.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 541,072. Bel Paese Sales Co. Inc., New York, N. Y. Filed Nov. 14, 1947. (Sec. 2f.)

Galbani

Applicant claims ownership of Registrations Nos. 283,753, 134,502, and others.

For Cheese.

Claims use since Feb. 16, 1927.

Ser. No. 548,502. Insta-Freeze Corporation, San Francisco, Calif. Filed Jan. 31, 1948.

INSTA-FREEZE

The word "Freeze" is disclaimed. Applicant claims ownership of Registration No. 380,943.

For Mixes Comprising Fruit Juice and Pulp, Sugar, Vegetable Stabilizer, and Fruit Acid and With or Without Milk, for Making Frozen Confections and Semi-Frozen Confections for Food Purposes.

Claims use since July 1, 1938.

Ser. No. 554,968. Exeter Orange Growers Association, also doing business as Cooperative Citrus Association, Exeter, Calif. Filed Apr. 19, 1948.

LILY

For Fresh Citrus Fruits.

Claims use since 1906.

Ser. No. 561,705. Aceites Bau, S. A., Madrid, Spain. Filed July 20, 1948. (Sec. 2f.)



All of the wording shown in the drawing, with the exception of the surname "Bau" and the signature, is hereby disclaimed. The lining shown on the drawing represents actual lines appearing in the mark and does not indicate color. The Spanish wording written across the mark reads as follows in English: "I guarantee with my signature the legitimacy and purity of the refined olive oil contained in this tin Tortosa Jose Bau V." Applicant claims ownership of United States Registration No. 134,340.

For Olive Oil.

Claims use since in January 1909; and in commerce between Spain and the United States since in the year 1915.

Ser. No. 565,670. Stephen F. Whitman & Son, Inc., Philadelphia, Pa. Filed Sept. 22, 1948.



The drawing is lined for red, yellow, blue, green, and brown. The word "Box" is disclaimed.

For Candy.

Claims use since June 24, 1946, on the mark as shown; and since April 1923 on the word "Antique"; and since 1919 on the design of a little girl.

Ser. No. 565,671. Stephen F. Whitman & Son, Inc., Philadelphia, Pa. Filed Sept. 22, 1948. (Sec. 2f as to "Whitman's.")



The drawing is lined for the colors red, yellow, blue, green, and brown. The word "Box" is disclaimed. Applicant claims ownership of Registrations Nos. 176,126, 50,866, and others.

For Candy.

Claims use since June 24, 1946, on the mark as shown; and since April 1923 on the word "Antique"; and since 1919 on the design of a little girl.

Ser. No. 566,411. Harris, Woodson Co., Inc., Lynchburg, Va., assignee of Melville Confections, Inc. Filed Apr. 5, 1948.

MELCO

For Candy.

Claims use since 1914.

Ser. No. 573,707. The Central Ohio Supply Co., Columbus, Ohio. Filed Feb. 11, 1949.

COLSO

Applicant claims ownership of Registration No. 441,924.

For Confectionery Topping Material Containing Cocoanut, Nut Meats, Sugar Syrup, Corn Syrup, Molasses, Salt, Butter, and Imitation Flavoring, for Use on Various Bakery Products, Including Rolls and Cakes, and Also for Use on Ice Cream.

Claims use since 1933.

Ser. No. 577,686. The Quaker Oats Company, Chicago, Ill. Filed Apr. 25, 1949.



The drawing is lined for red. The representation of the sack is disclaimed. The trade-mark consists of a red design, the bottom of which is concave in shape and the top a straight line terminating approximately two inches from the top of the bag, the sides being intersected by the side panels of the bag, together with the words "Red-Top" positioned immediately below the red design, and formed in a curve parallel and adjacent to the curved line of the bottom of the design. Applicant claims ownership of Registrations Nos. 99,836, 100,077, and 167,394.

For Wheat Flour, for Human Consumption.

Claims use since Mar. 16, 1914.

Ser. No. 581,115. Blum's, San Francisco, Calif. Filed June 27, 1949. (Sec. 2f as to the surname "Blum.")

Blum-derful

For Candy.

Claims use since October 1944 as shown; and since 1904 as to "Blum."

Ser. No. 582,157. The Aula Company, Inc., Long Island City, N. Y. Filed July 19, 1949.

AULA

Applicant claims ownership of Registration No. 343,060.

For Whole Spices, Ground Spices, Pickling Spices, and Pepper; Seeds and Herbs for Food Seasoning—Namely, Caraway, Coriander, Mustard Seed, and Sage; Prepared Seasonings for Sausage and Meats; Celery Salt, Onion Powder, and Garlic Powder; Curing Salts Used To Cure and Season Meats; and Processed Sausage Binders Containing Wheat Flour or Other Flours.

Claims use since 1942.

Ser. No. 590,098. Nebraska Consolidated Mills Company, Omaha, Nebr. Filed Dec. 29, 1949.

Jean Foster

The name "Jean Foster" is not represented to refer to any particular living individual.

For Pancake Mixes.

Claims use since Nov. 25, 1949.

Ser. No. 594,287. The 7 Seas, Houston, Tex. Filed Mar. 20, 1950.



For Remoulade Sauce, and French Dressing Comprised of Egg Yolk, Salad Oil, Vinegar, Mustard, Garlic, Paprika, Salt, Sugar, and Gum Tragacanth.

Claims use since Oct. 1, 1949.

Ser. No. 600,773. Sea Hunter Mfg. Co., Inc., Los Angeles, Calif., assignee of Wallace Lee Goon. Filed July 17, 1950.



For Seasoned Flour Preparation To Be Used as a Batter or Dry Dip for Frying Meats, Sea Food, Fowl, and for Use in Soup and Gravy.

Claims use since May 5, 1949.

Ser. No. 603,144. American Stores Company, Philadelphia, Pa. Filed Sept. 5, 1950.

ACME

For Carcass Beef and Lamb.

Claims use since Oct. 29, 1948.

Ser. No. 603,145. American Stores Company, Philadelphia, Pa. Filed Sept. 5, 1950.

ASCO

Applicant claims ownership of Registrations Nos. 141,477, 210,043, 219,076, 243,886, and 235,309.

For Carcass Beef and Lamb.

Claims use since Oct. 29, 1948.

Ser. No. 606,223. Independent Salmon Canneries, Inc., Seattle, Wash. Filed Nov. 10, 1950.

Delca

For Canned Salmon.
Claims use since 1945.

Ser. No. 607,922. The House of Bauer, doing business as Bauer's, Lincoln, Nebr. Filed Dec. 21, 1950.

The CRAFTSMAN

For Candy.
Claims use since Sept. 1, 1932.

Ser. No. 610,000. The Battle Creek Food Company, Battle Creek, Mich. Filed Feb. 13, 1951.



The trade-mark comprises a blue oval superimposed upon a yellow field substantially in the shape and form shown in the drawing. The drawing is lined for blue and yellow.

For Soy Bean Flour, Kaffir Tea for Beverage Purposes, Self-Rising Gluten Flour, Gluten Bread, Wheat Germ, Brewers' Yeast, Malted Nuts, Artificially Sweetened Waffle and Pancake Sweetener, Rice Flakes, Water Soluble Cereal Beverage, Ready-To-Eat Whole Grain Cooked Wheat, Ready-To-Eat Flakes Made From Wheat Bran and Fig Concentrate, Washed Bran, Toasted Bran Flakes With Gluten, Soya Flakes With Gluten, Ready-To-Eat Cereal Made From Wheat Bran and Fig Concentrate, and a Granular Cereal Formed From Wheat, Barley, and Soy Beans.

Claims use since April 1949.

Ser. No. 611,434. Knudsen Creamery Co. of California, Los Angeles, Calif. Filed Mar. 16, 1951. (Sec. 2f as to "Knudsen.")



The representation of the girl is fanciful. The drawing is lined for orange and blue.

For Dairy Products—Namely, Half Cream and Half Milk.

Claims use since Sept. 26, 1941.

Ser. No. 611,475. George F. Dolan, St. Paul, Minn. Filed Mar. 17, 1951.



The word "Minit" is disclaimed.
For French Fried Potatoes.
Claims use since Apr. 15, 1950.

Ser. No. 612,453. Campbell Holton & Co., Bloomington, Ill. Filed Apr. 10, 1951.

CAMEL

Applicant claims ownership of Registrations Nos. 76,618 and 114,087.

For Canned Fruit, Rice, Sauerkraut, Canned Apple Sauce, Canned Beans With Pork, Apple Jelly, Canned Hominy, Canned Berries, Canned Orange Juice, Canned Fish, Canned Vegetables.

Claims use since January 1907.

Ser. No. 613,372. Henry Heide, Incorporated, New York, N. Y. Filed May 1, 1951.

DARLING

For Candies.
Claims use since 1901.

Ser. No. 613,920. The E. H. Koester Bakery Company, Baltimore, Md. Filed May 16, 1951.



The representation is fanciful. Applicant claims ownership of Registrations Nos. 316,417, 430,570, and 518,653.

For Bakery Goods—Namely, Bread, Cakes, and Pies.

Claims use since Apr. 3, 1934.

Ser. No. 613,921. The E. H. Koester Bakery Company, Baltimore, Md. Filed May 16, 1951.

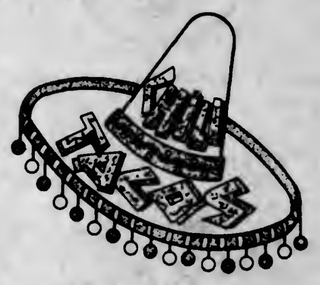


The representation of the child is fanciful. The word "Koester's" is disclaimed. Applicant claims ownership of Registrations Nos. 316,417, 323,529, and others.

For Bakery Goods—Namely, Bread, Cakes, and Pies.

Claims use since Apr. 3, 1934.

Ser. No. 615,389. Jewel Food Distributors, Amarillo, Tex. Filed June 19, 1951.



The expression "Chili Tacos" is disclaimed. The Spanish word "Tacos" is a colloquialism meaning "light lunch," "snack," or the like.

For Chili-Flavored Corn Chips.

Claims use since Mar. 12, 1951.

Ser. No. 615,944. John J. Pieri, executor of the estate of Joseph G. Pieri, deceased, doing business as J. G. Pieri Company and also as Bestaste Products Company, Buffalo, N. Y. Filed June 30, 1951.

TOMA STRATTO

"Stratto" is an Italian word meaning extract and is disclaimed.

For Tomato Paste.
Claims use since June 13, 1951.

Ser. No. 616,650. Stuelpnagel's Inc., Yankton, S. Dak. Filed July 18, 1951.

YANKOTA

For Shell and Frozen Eggs.
Claims use since June 19, 1951.

Ser. No. 617,678. Prince Macaroni Manufacturing Company, Lowell, Mass. Filed Aug. 14, 1951.

Sugoro

For Spaghetti Sauce.
Claims use since June 8, 1951.

Ser. No. 618,193. American Molasses Company, New York, N. Y. Filed Aug. 18, 1951.



The word "Sugar," the phrase "the more refined sugar," and the representation of the bag of sugar are disclaimed. The lines on the drawing form a part of the mark. Applicant claims ownership of Registration No. 297,908.

For Refined Sugar.
Claims use since May 22, 1951.

Ser. No. 618,242. The Rath Packing Company, Waterloo, Iowa. Filed Aug. 30, 1951.



Applicant claims ownership of Registration No. 324,188.

For Blended Shortening Composed of Animal and Vegetable Fats, Imitation Bologna, Smoked Pork Sausage Links, and Bacon.

Claims use since Dec. 23, 1950, as to the mark shown; and since Nov. 15, 1935, as to the word "Sunvale" and the representation of a sunburst.

Ser. No. 619,292. Candy Crafters, Inc., Lansdowne, Pa. Filed Sept. 27, 1951. (Sec. 2f.)

Candy Crafters

For Candy and Chewing Gum.
Claims use since Oct. 29, 1930.

Ser. No. 619,522. Southeastern Foods, Inc., Brundidge, Ala. Filed Oct. 2, 1951.

Southern Choice

The picture is a representation of a fictitious person. The word "Choice" is disclaimed.

For Peanut Butter; Mayonnaise; Sandwich Spread Containing Edible Vegetable Oil, Vinegar, Eggs, Starch

and/or Tapioca, Flour, Salt, Sugar, Spices, and Sweet Relish; and Salad Dressing Containing Corn or Cottonseed Oil, Vinegar, Eggs, Starch and/or Tapioca, Flour, Sugar, Salt, and Spices.
Claims use since January 1948.

Ser. No. 620,480. The Upjohn Company, Kalamazoo, Mich. Filed Oct. 25, 1951.

Lipomul

For Combination of Vegetable Oils and Dextrose Adapted for Use in Milk.
Claims use since July 12, 1950.

Ser. No. 620,690. Safeway Stores, Incorporated, Oakland, Calif. Filed Oct. 30, 1951.

Bel-air

For Fresh Frozen Concentrated Orange Juice, Frozen Berries, and Frozen Vegetables.
Claims use since July 8, 1950.

Ser. No. 621,296. Wyeth Incorporated, Philadelphia, Pa. Filed Nov. 15, 1951.



The drawing is lined for pink and blue. The mark consists of a pink band encircling the container surmounted by a blue circle projecting the major portion of its area into said pink band with the letters "SMA" appearing within said circle. Applicant claims ownership of Registrations Nos. 135,195 and 369,064.
For Powdered Food Formula for Infant Feeding.
Claims use since 1937.

Ser. No. 622,063. Fred Batkin, Jr., doing business as Smith Mountain Ranch, Dinuba, Calif. Filed Dec. 4, 1951.

"Peach Boy"

The word "Peach" is disclaimed.
For Fresh Deciduous Fruits and Fresh Grapes.
Claims use since July 1, 1944.

Ser. No. 622,304. M.J.B. Co., Wilmington, Del., and San Francisco, Calif. Filed Dec. 10, 1951.

TREE TEA

The word "Tea" is disclaimed. Applicant claims ownership of Registrations Nos. 138,949, 138,950, and 138,951.
For Tea.
Claims use since 1898.

Ser. No. 622,395. Rene G. Martens, Geneva, Switzerland. Filed Dec. 12, 1951.



Applicant claims ownership of Swiss Registration No. 13,989, dated May 29, 1951.
For Food Product Made From Milk—Namely, Yogurt.

Ser. No. 623,015. Pierre B. Signore Co., Inc., New York, N. Y. Filed Dec. 29, 1951.



The representation of the goods is disclaimed. The English translation for the French noun "Merveille" is "miracle."
For Fresh Belgian Chicory.
Claims use since Jan. 3, 1951.

Ser. No. 623,513. Inglehoffer Foods Inc., Pasadena, Calif. Filed Jan. 12, 1952.

inglehoffer

For German Style Mustard.
Claims use since Nov. 29, 1950.

Ser. No. 623,576. Lucille M. Fritch, doing business as Mrs. L. M. Fritch, Cuyahoga Falls, Ohio. Filed Jan. 14, 1952. (Sec. 2f.)

MRS. FRITCH'S

For Fruit Cake.
Claims use since Nov. 18, 1946.

Ser. No. 624,620. Weinstock Importing Corp., New York, N. Y. Filed Feb. 6, 1952.

Holiday Snacks

The word "Snacks" is disclaimed.
For Herring Fillets.
Claims use since Nov. 1, 1951.

Ser. No. 624,779. Dry-Freeze Corporation, Chicago, Ill. Filed Feb. 11, 1952.

Beenies

For Instant Coffee.
Claims use since Feb. 1, 1952.

Ser. No. 625,216. Seapak Corporation, doing business as Atlantic Seafood Company, St. Simons Island and Brunswick, Ga. Filed Feb. 19, 1952.

SHRIMP BOAT

The word "Shrimp" is disclaimed.
For Frozen Breaded Fantail Shrimp.
Claims use since July 31, 1951.

Ser. No. 625,419. Hall, Haas & Vessey, Ltd., Los Angeles, Calif. Filed Feb. 23, 1952.

TRAVERTINE

For Fresh Citrus Fruits, Fresh Vegetables, and Grapes.
Claims use since Nov. 29, 1951.

Ser. No. 625,463. Louise Dart's Food Specialties, Media, Pa. Filed Feb. 25, 1952.

KATERETTES

For Patty Shells.
Claims use since Nov. 9, 1951.

Ser. No. 625,546. Robert D. Saunders, doing business as Bob Saunders Co., Watsonville, Calif. Filed Feb. 26, 1952.

MARKET STREET

For Fresh Vegetables.
Claims use since Aug. 13, 1949.

Ser. No. 625,686. New England Fish Company, Seattle, Wash. Filed Feb. 28, 1952.

PINK BEAUTY

The word "Pink" is disclaimed. Applicant claims ownership of Registration No. 292,203.
For Canned Salmon.
Claims use since September 1929.

Ser. No. 626,066. Yakima County Horticultural Union, Yakima, Wash. Filed Mar. 6, 1952.

"Dear Lady!"

For Canned Pears.
Claims use since Jan. 30, 1952.

Ser. No. 626,083. Hawley & Hoops, Inc., East Boston, Boston, Mass. Filed Mar. 7, 1952. (Sec. 2f as to "Toys.")

PLAYTIME TOYS

Applicant claims ownership of Registration No. 282,979.
For Candies.
Claims use since Apr. 30, 1930.

Ser. No. 626,183. Frank Voiello, Brooklyn, N. Y. Filed Mar. 8, 1952. (Sec. 2f.)

VOIELLO

For Macaroni.
Claims use since Sept. 8, 1946.

Ser. No. 627,132. House of Huston, Inc., Coral Gables Fla. Filed Mar. 27, 1952.

GREEN MAGIC

The word "Green" is disclaimed.
For Chewing Gum.
Claims use since Aug. 15, 1951.

Ser. No. 627,826. The Maillard Corp., New York, N. Y. Filed Apr. 9, 1952.

Autograph

Applicant claims ownership of Registration No. 548,161.
For Candy.
Claims use since Oct. 13, 1950.

Ser. No. 628,546. Richard O. Mears, Sacramento, Calif. Filed Apr. 23, 1952.

Frenchies

For Ice Cream Sandwiches.
Claims use since Feb. 15, 1952.

Ser. No. 630,569. Austin Fruit Association, Austin, Colo. Filed June 2, 1952.

Grand Mesa

For Fresh Fruits.
Claims use since Sept. 16, 1946.

CLASS 47

WINES

Ser. No. 610,547. Flagstaff Foods, Perth Amboy, N. J. Filed Feb. 27, 1951.

FLAGSTAFF

Applicant claims ownership of Registration No. 339,932.
For Wines.
Claims use since September 1949.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 576,030. Atlas Brewing Company, Chicago, Ill. Filed Mar. 25, 1949. (Sec. 2f.)



The word "Beer" is disclaimed. Applicant claims ownership of Registrations Nos. 217,914, 260,521, and others.
For Beer and Ale.
Claims use since Mar. 7, 1944, on the mark as shown; and since November 1933 on the word "Prager"; and since March 1917 on the word "Atlas."

Ser. No. 600,185. Narragansett Brewing Company, Cranston, R. I. Filed July 3, 1950.



Applicant claims ownership of Registrations Nos. 125,245 and 326,353.
For Ale and Beer.
Claims use since May 1949.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 551,803. Ladner Brothers, Incorporated, Chicago, Ill. Filed Mar. 12, 1948.

Cohasset

The drawing is lined for red. Applicant claims ownership of Registration No. 322,254.
For Alcoholic Beverage—Namely, on Alcoholic Liquers.
Claims use since some time in the year 1909.

Ser. No. 579,099. J. & J. Grant, Glen Grant, Limited, Rothes, Scotland. Filed May 19, 1949.



GLEN GRANT

Priority under Sec. 44(d). British application filed Mar. 25, 1949, Registration No. 678,213, dated Mar. 25, 1949. The wording shown on the representation of the cask is disclaimed. The drawing is lined for shading. The portraits and the name "Glen Grant" are fanciful. Applicant claims ownership of United States Registrations Nos. 314,616 and 337,518.
For Scotch Whiskey.

Ser. No. 596,147. James B. Beam Distilling Co., Chicago, Ill. Filed Apr. 22, 1950.

CLEAR STONE

For Whiskey.
Claims use since Aug. 6, 1940.

Ser. No. 596,148. James B. Beam Distilling Co., Chicago, Ill. Filed Apr. 22, 1950.

DARK EYES

For Vodka.
Claims use since Jan. 2, 1942.

Ser. No. 596,153. James B. Beam Distilling Co., Chicago, Ill. Filed Apr. 22, 1950. (Sec. 2f.)

Ph. Boilieux

The name "Ph. Boilieux" is fanciful. Applicant claims ownership of Registration No. 383,938.
For Brandy.
Claims use since January 1925.

Ser. No. 604,911. G. F. Heublein & Bro., Inc., Hartford, Conn. Filed Oct. 14, 1950.

RYEBROOK

For Whiskey.
Claims use since Sept. 18, 1950.

Ser. No. 611,877. Apple Distillers Ltd., New York, N. Y. Filed Mar. 28, 1951.

Apple VAT

The words "Apple" and "Vat" are disclaimed.
For Alcoholic Apple Cider.
Claims use since Nov. 1, 1950.

Ser. No. 613,987. Grierson, Oldham & Co. Ltd., London, England. Filed May 17, 1951. (Sec. 2f.)

GRIERSON'S

For Scotch Whisky.
Claims use since 1894; and since 1933 in commerce between the United States and the United Kingdom of Great Britain.

Ser. No. 622,606. A. Lyon & Sons, Beverly Hills, Calif. Filed Dec. 17, 1951.

ODET

"Odet" is a coined word, having no known meaning.
For Brandy.
Claims use since June 6, 1951.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 609,987. Gertrude S. Tenderich, doing business as Linotape Products Company, Denver, Colo. Filed Feb. 12, 1951.

DRISTAIN

For Products, Equipment, and Material Now Being Sold as a Complete Kit and Employed in a Process of Applying Contrasting Colors to Type Setting Matrices, Said Products, Equipment, and Material in the Kit Comprising Strips of Inert Material in Roll Form Serving as a Carrier for Chemicals To Accomplish Staining Under Heat, Color Inlays Consisting of a Liquid Carrying a Color, Heaters and Convenience Kits, Clamps, Solvents, Wax Sticks Consisting of Colored Wax, Cloth Pads, and Stencils, Also for Demonstration Kits in Which the Products, Equipment, and Materials Are Contained.
Claims use since Apr. 13, 1950.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 471,660. Del Valle Ltda. Sociedad Anonima Comercial e Industrial, Buenos Aires, Argentina, assignee of Del Valle Limitada. Original filed, act of 1905, June 26, 1944; amended to application under act of 1946, Principal Register, Feb. 26, 1951.

JULIO ROMERO

"Julio Romero" is a fictitious name.
For Perfume; Toilet Water; Face Powder; Lipsticks; Filled Rouge and Powder Compacts; Bath Salts; Skin Powders; Skin Softeners; Body Deodorants; Depilatories; Mouth Washes; Talcum Powder; Cleansing Creams or Cold Creams; Sunburn Preparations; Texture Creams; Vanishing or Foundation Creams; Astringents; Rouge; Eye Shadow; Eyebrow Pencils; Mascara; Brilliantine; Hair Tonics; Shampoos; Toothpaste; Toothpowder; Hand Creams, Hand Lotions; and Nail Polish and Liquid Dentifrices.
Claims use since November 1943; and first used in commerce between the United States and Argentina on Oct. 21, 1946.

Ser. No. 605,772. Washburn Laboratories, Inc., St. Paul, Minn. Filed Nov. 1, 1950.

PILLOWS

Applicant claims ownership of Registration No. 389,046.
For Lotion for External Use.
Claims use since May 14, 1950.

Ser: No. 610,931. Joseph S. Valcourt, Fall River, Mass. Filed Mar. 6, 1951.

VALCOURTONIC

For Hair Tonic.
Claims use since May 2, 1949.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 471,660. Del Valle Ltda. Sociedad Anonima Comercial e Industrial, Buenos Aires, Argentina, assignee of Del Valle Limitada. Original filed, act of 1905, June 26, 1944; amended to application under act of 1946, Principal Register, Feb. 26, 1951. (Classified in Class 51.)
"Julio Romero" is a fictitious name.
See this serial number in Class 51 for goods and mark.
Claims use since November 1943; and first used in commerce between the United States and Argentina on Oct. 21, 1946.

Ser. No. 559,592. Economics Laboratory, Inc., St. Paul, Minn. Filed June 18, 1948.

HI-LIGHT

For Dishwashing Compound.
Claims use since May 13, 1948.

Ser. No. 604,274. The Simoniz Company, Chicago, Ill., now by change of name Simoniz Company. Filed Sept. 30, 1950.

S☆A

For Material for Providing a Water Suds for Cleaning Rugs, Upholstery, Walls, Woodwork, Canvas Car Tops, and the Like.

Claims use since August 1939.

Ser. No. 613,137. McCleary Associates, Inc., doing business as Lusterway Sales Co., Memphis, Tenn. Filed Apr. 25, 1951.

LUSTER-BAK

The word "Luster" is disclaimed.

For Compound Containing a Detergent and a Finishing Agent for Imparting Brightness and Softness to Textile Fabrics, and Specifically During the Dry Cleaning Thereof.

Claims use since Feb. 28, 1951.

Ser. No. 621,041. West Disinfecting Company, Long Island City, N. Y. Filed Nov. 8, 1951.

BOWL KLEN-ZO

The term "Bowl" is disclaimed. Applicant claims ownership of Registration No. 102,477.

For Powdered Toilet Bowl Cleaner.

Claims use since Sept. 1, 1951.

Ser. No. 623,148. Lucky Day Chemical Co., Herminie, Pa. Filed Jan. 3, 1952.

LUCKY-DAY FRAGRANCE WASHING FLUID

The words "Fragrance Washing Fluid" are disclaimed. Applicant claims ownership of Registration No. 296,563.

For Washing, Bleaching, and Deodorizing Fluid Possessing Incidental Germicidal and Disinfecting Properties for Clothing, Fabrics, Woodwork, Garbage Cans, Toilet Bowls, Wash Tubs, Ice Boxes, and Like Household Equipment.

Claims use since Nov. 21, 1951 on the mark as shown; and since Mar. 2, 1932 on the words "Lucky Day" and the horseshoe design.

Ser. No. 623,438. The Tremco Manufacturing Company, Cleveland, Ohio. Filed Jan. 10, 1952.

TREMCLENE

For Liquid Chemicals Adapted To Be Mixed With Water, Kerosene, or Mineral Spirits for the Provision of a Preparation To Dissolve Oils and Greases From Concrete, Wood, and Other Type Floors and Like Surfaces.

Claims use since November 1934.

Ser. No. 624,761. Rubberset Company, Newark, N. J. Filed Feb. 9, 1952.

ROUT

For Hand Cleanser.

Claims use since Jan. 9, 1952.

Ser. No. 626,447. Walter J. Dilley, Wilmington, Calif. Filed Mar. 14, 1952.

Kind

For Detergent.

Claims use since Jan. 14, 1952.

CLASS 100

MISCELLANEOUS

Ser. No. 580,320. Lisle Ramsey, doing business as Aunt Mary's Birthday Clubs of America, Kansas City, Mo. Filed June 11, 1949.



The words "Birthday Clubs of America" are disclaimed.

For Photographic Service—Namely, Photographing of Children.

Claims use since Feb. 10, 1949.

Ser. No. 599,763. The Grand Chapter of Phi Sigma Kappa, Chicago, Ill. Filed June 26, 1950. COLLECTIVE MARK.

Phi Sigma Kappa

Applicant claims ownership of Registration No. 222,080.

For Organizing of Chapters in a National Collegiate Fraternity and Maintaining Membership Therein.

Claims use since 1878.

Ser. No. 604,439. Kappa Psi Pharmaceutical Fraternity, Boston, Mass. Filed Oct. 4, 1950. COLLECTIVE MARK.



Applicant claims ownership of Registration No. 277,589.

For Organizing Chapters in a National Pharmaceutical Fraternity; Maintaining Membership Therein and Furthering the Civic and Educational Ideals Thereof.

Claims use since May 30, 1879.

Ser. No. 623,177. Beta Theta Pi, Oxford, Ohio. Filed Jan. 4, 1952. COLLECTIVE MARK.



Applicant claims ownership of Registration No. 287,743.

For Organizing Chapters and Regional Groups and Maintaining Membership in a National Collegiate Fraternity.

Claims use since December 1946.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 558,476. Dow Jones & Company, Inc., Wilmington, Del., assignee of Dow Jones & Co., Inc. Filed June 4, 1948. (Sec. 2f.)

DOW JONES NEWS SERVICE

The words "News Service" are disclaimed. Applicant claims ownership of Registrations Nos. 325,446 and 379,956.

For Gathering Business and Financial News and Transmitting the Same to Its Subscribers by Various Means, Including Telegraphic Printers Which Are Installed on the Premises of Subscribers and Which Are Controlled by the Applicant.

Claims use since Mar. 31, 1947, on the mark as shown; and since Aug. 10, 1887, as to "Dow Jones."

Ser. No. 558,477. Dow Jones & Company, Inc., Wilmington, Del., assignee of Dow Jones & Co., Inc. Filed June 4, 1948. (Sec. 2f as to "Dow-Jones.")

DOW-JONES
BUSINESS AND FINANCIAL NEWS SERVICE

The words "Business and Financial News Service" are disclaimed. Applicant claims ownership of Registrations Nos. 325,446 and 379,956.

For Gathering Business and Financial News and Transmitting the Same to Its Subscribers by Various Means, Including Telegraphic Printers Which Are Installed on the Premises of Subscribers and Which Are Controlled by the Applicant.

Claims use since Jan. 15, 1948, on the mark as shown; since June 1932 as to the wording "Business and Financial News Service"; and since Aug. 10, 1887, as to "Dow-Jones."

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 603,153. Gallery of Homes, Inc., Rochester, N. Y. Filed Sept. 5, 1950.



The word "Homes" is disclaimed. Applicant claims ownership of Registration No. 559,993.

For General Real-Estate Brokerage.

Claims use since July 17, 1950.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 587,168. Altec Service Corporation, New York, N. Y. Filed Nov. 2, 1949.

ALTEC

For Maintaining and Repairing Sound and Projection Apparatus, Particularly in Motion Picture Theatres.

Claims use since Dec. 4, 1937.

Ser. No. 591,105. Phoenix Laundry & Dry Cleaning, Inc., Phoenix, Ariz. Filed Jan. 19, 1950.

PATRICIA LEE

The name "Patricia Lee" is fictitious.

For Dry Cleaning and Laundry Service Rendered on Garments and Household Articles and Fur Cleaning.

Claims use since Oct. 31, 1949.

CLASS 104

COMMUNICATION

Ser. No. 558,476. Dow Jones & Company, Inc., Wilmington, Del., assignee of Dow Jones & Co., Inc. Filed June 4, 1948. (Classified in Class 101.) (Sec. 2f.)

The words "News Service" are disclaimed. Applicant claims ownership of Registrations Nos. 325,446 and 379,956.

See this serial number in Class 101 for goods and mark.

Claims use since Mar. 31, 1947, on the mark as shown; and since Aug. 10, 1887, as to "Dow Jones."

Ser. No. 558,477. Dow Jones & Company, Inc., Wilmington, Del., assignee of Dow Jones & Co., Inc. Filed June 4, 1948. (Classified in Class 101.) (Sec. 2f as to "Dow-Jones.")

The words "Business and Financial News Service" are disclaimed. Applicant claims ownership of Registrations Nos. 325,446 and 379,956.

See this serial number in Class 101 for goods and mark.

Claims use since Jan. 15, 1948, on the mark as shown; since June 1932 as to the wording "Business and Financial News Service"; and since Aug. 10, 1887, as to "Dow-Jones."

Ser. No. 625,859. National Association of Radio and Television Broadcasters, Inc., Wilmington, Del., and Washington, D. C. Filed Mar. 3, 1952. CERTIFICATION MARK.



For Broadcasting of Television Programs.

Claims use since Mar. 1, 1952.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 549,223. Booth Fisheries Corporation, Chicago, Ill. Filed Feb. 10, 1948. (Sec. 2f as to "Booth.")



Applicant claims ownership of Registrations Nos. 119,643, 370,697, 415,183, and 425,257.

For Cold Storage and Freezing of Foods in Wholesale Quantities for Others.

Claims use since Jan. 16, 1948, as to the mark shown; and since in December 1902 as to the word "Booth."

CLASS 106

MATERIAL TREATMENT

Ser. No. 549,223. Booth Fisheries Corporation, Chicago, Ill. Filed Feb. 10, 1948. (Classified in Class 105.) (Sec. 2f as to "Booth.")

Applicant claims ownership of Registrations Nos. 119,643, 370,697, 415,183, and 425,257.

See this serial number in Class 105 for goods and mark.

Claims use since Jan. 16, 1948, as to the mark shown; and since in December 1902 as to the word "Booth."

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 576,727. U. S. Trade School, Inc., Kansas City, Mo. Filed Apr. 6, 1949.



For Vocational Instruction in the Arts of Automotive Mechanical Repair and Automobile Body and Fender Repair by Correspondence.

Claims use since Dec. 1, 1946.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,719. Nose Drops; Vaginal Jelly; Greaseless Ointments and Lotions for Treatment of the Skin—Namely, Analgesic Balms, Anesthetic Ointments, Etc. Vanol Chemical Company, Ann Arbor, Mich.

Filed June 11, 1947, Serial No. 524,029. Published May 20, 1952. Class 51.

ACT OF 1946, PRINCIPAL REGISTER

564,254. Concrete Mixers. Muller Machinery Co., Inc., Metuchen, N. J.

Original filed, act of 1905, Jan. 2, 1947; amended to application under act of 1946, Principal Register, May 15, 1950, Serial No. 515,192. Published Dec. 18, 1951. Class 23.

564,255. Sticks of Crayon. United Crayon Co. Inc., Brooklyn, N. Y.

Original filed, act of 1905, Feb. 18, 1947; amended to application under act of 1946, Principal Register, Mar. 17, 1948, Serial No. 517,754. Published July 8, 1952. Class 37.

564,256. Holders in the Nature of a Carrying Case or Luggage Item, With Handles for Carrying Books or the Like. Leland H. Pries, Forest Hills, N. Y.

Filed Oct. 30, 1947, Serial No. 539,557. Published July 1, 1952. Class 3.

564,257. Book Paper—Namely, White Clay Coated Book Paper, and White Paper for Commercial Printing Generally. The Martin Cantine Company, Saugerties, N. Y.

Filed Nov. 18, 1947, Serial No. 541,558. Published July 1, 1952. Class 37.

564,258. Dewatering Tanks, Said Tanks Being Employed for Separating Solid Material in Sludge, and the Like, From Water, Etc. Claude B. Schneible Company, Detroit, Mich.

Filed Jan. 31, 1948, Serial No. 548,535. Published June 24, 1952. Class 2.

564,259. Wheat Flour. The Colorado Milling & Elevator Co., Denver, Colo., doing business as The Springfield Flour Mills, Springfield, Mo.

Filed May 21, 1948, Serial No. 557,503. Published June 17, 1952. Class 46.

564,260. Beds and Mattresses. Wm. Long Cornices & Bedheads, Los Angeles, Calif.

Filed July 23, 1948, Serial No. 562,074. Published July 1, 1952. Class 32.

564,261. Diatomaceous Earth in Finely Comminuted Form for Use as a Filter Aid. Great Lakes Carbon Corporation, New York, N. Y.

Filed Aug. 3, 1948, Serial No. 562,703. Published June 10, 1952. Class 31.

564,262. Lime for Construction Use. United States Gypsum Company, Chicago, Ill.

Filed Aug. 6, 1948, Serial No. 562,972. Published May 27, 1952. Class 12.

564,263. Woodworking Machinery — Namely, Sanders, Planers, Wood Scrapers, Lathes, Etc. Earle Hart Woodworking Machine Co., Chicago, Ill.

Filed Aug. 13, 1948, Serial No. 563,337. Published June 24, 1952. Class 23.

564,264. Crushing Machinery for Use in Crushing Coal or Stone, Cement and Gravel, and Particularly Adaptable for Use in Mining, Cement Manufacture, and Rock and Gravel Work. Nordberg Manufacturing Company, Milwaukee, Wis.

Filed Sept. 29, 1948, Serial No. 566,095. Published Dec. 13, 1949. Class 23.

564,265. Oil, Grease and Moisture Absorbent, Used Largely on Floors. E. S. Dickerson, Jr., trading as The Dickerson Company, Philadelphia, Pa.

Filed Oct. 19, 1948, Serial No. 567,190. Published May 17, 1949. Class 52.

564,266. Candy, Bakers' Confections—Namely, Cookies, Cake Kisses, Macaroons, and Cakes With Candy Fillings and Toppings; and Prepared Frozen Pastry Dough—Namely, Pie Dough and Cookie Dough. Zion Industries, Inc., Zion, Ill.

Filed Dec. 10, 1948, Serial No. 570,348. Published June 24, 1952. Class 46.

564,267. CONSOLIDATED CERTIFICATE. Phoenix Products Company, Milwaukee, Wis.

Paper Envelopes and Bags Used in Laundry and Dry Cleaning Establishments—Namely, Paper Pick-Up Bags; Paper Hotel, Laundry, and Trim Bags; Paper Garment and Necktie Bags, and Paper Hat Bags. Filed May 7, 1949, Serial No. 578,409. Published Jan. 16, 1951. Class 2.

Articles Made of Paper or Paper Board for Protecting and Holding Clothing and Used in Laundry and Dry Cleaning Establishments—Namely, Shirt Wrappers With a Cardboard Backing, Shirt Bands, Shirt Wrappers, Collar Protectors, Covers for the Bar of Wire Coat Hangers, Shoulder Garment Protectors, Tie Supports and Protective Covers, and Wire Garment Hanger Covers. Filed Oct. 12, 1949, Serial No. 586,187. Published Mar. 18, 1952. Class 37.

Articles for Protecting and Holding Clothing and Used in Laundry and Dry Cleaning Establishments, and More Particularly, Curtain Hangers, Wire Garment Hangers, and Drapery Hangers. Filed Dec. 11, 1948, Serial No. 571,831. Published Apr. 18, 1950. Class 50.

564,268. Awnings, Canopies, Shades, Screenings, Opaque Screens and Partitions Made of Aluminum and Aluminum Alloys. Orchard Brothers Incorporated, Rutherford, N. J.

Filed Jan. 13, 1949, Serial No. 572,116. Published Oct. 17, 1950. Class 12.

564,269. Hand and Power Lawn Mowers, Grass Catchers, Grass and Hedge Shears, Pruners, Lawn Sweepers, Shovels, Lawn Rakes, Hand, Compressed Air and Wheelbarrow Garden Sprayers, Snow Pushers, Garden Fertilizer and Seed Spreaders, and Weed Burners. The National Ideal Company, Toledo, Ohio.

Filed Jan. 21, 1949, Serial No. 572,511. Published July 1, 1952. Class 23.

564,270. Porous and Absorbent Material for Collecting and Processing Tissue Elements for Sponge Biopsy. Histomed, Incorporated, Paterson, N. J.

Filed Feb. 4, 1949, Serial No. 573,323. Published July 8, 1952. Class 44.

564,271. Rotary-Leaf Pressure Filters for Filtering Juices, Syrups, Beverages and Other Products of Food and Process Industries. Suchar Engineering & Sales Company, New York, N. Y.

Filed Feb. 9, 1949, Serial No. 573,601. Published June 24, 1952. Class 31.

564,272. CONSOLIDATED CERTIFICATE. Caterpillar Tractor Co., Peoria, Ill.

Dump-Wagons, Wheel Tractor-Dump-Wagon Combinations, and Structural Parts for Such Products. Filed Mar. 10, 1949, Serial No. 575,190. Published Apr. 15, 1952. Class 19.

Electric Generators and Diesel Electric Generator Sets, and Parts Furnished With Said Products. Filed Feb. 21, 1949, Serial No. 574,204. Published Mar. 6, 1951. Class 21.

Diesel and Other Internal Combustion Engines Adapted for Employment as the Source of Power for Self-Propelled Vehicles, and as Stationary or Portable Power Units for Industrial, Marine, and Agricultural Uses; Scraping, Carrying and Dumping Units Adapted To Be Employed for Scraping and Collecting Earth, Rock, or Like Materials and Transporting and Dumping Said Materials; Power and Manually Controlled Graders, Scarifiers, Scrapers, and Rippers Adapted To Be Employed for the Construction and Maintenance of Roads, for Moving and Removing of Earth, Rock, Snow and Like Materials, for Preventing Soil Erosion and for Other Industrial and Agricultural Uses; Tractors for Industrial and Agricultural Purposes; and Parts and Service Tools Furnished With Said Products. Filed Feb. 21, 1949, Serial No. 574,205. Published Apr. 29, 1952. Class 23.

564,273. Candy. Rogers Candy Company, Seattle, Wash.
Filed Apr. 5, 1949, Serial No. 576,658. Published June 17, 1952. Class 46.

564,274. Wrapping Material—Namely, Paper Laminated to a Metallic Foil and Transparent Film Material Laminated to a Metallic Foil. Shellmar Products Corporation, Chicago, Ill.
Filed Apr. 14, 1949, Serial No. 577,148. Published June 24, 1952. Class 37.

564,275. Cleaner for Watch and Clock Mechanisms. D. & H. Mfg. Co., Modesto, Calif.
Filed May 10, 1949, Serial No. 578,492. Published June 17, 1952. Class 52.

564,276. Wheeled Stretchers, Elevating Litter Stretchers, Dressing Carts, Instruments Tables, Vaporizing Inhalators for Treatment of Respiratory Diseases, and Wheeled Invalid Chairs and Parts Thereof. The Colson Corporation, Elyria, Ohio.
Filed May 11, 1949, Serial No. 578,570. Published July 8, 1952. Class 44.

564,277. Sofas, Beds, and Folding Sofa Bed Constructions. The American Bed & Spring Company, St. Louis, Mo.
Filed May 13, 1949, Serial No. 578,755. Published July 8, 1952. Class 32.

564,278. Fountain Syringes, Surgical Nozzles and Tubing for Syringes, Hot Water Bottles. S. H. Kress and Company, New York, N. Y.
Filed Apr. 29, 1949, Serial No. 578,857. Published July 8, 1952. Class 44.

564,279. Internal Combustion Engines. The White Motor Company, Cleveland, Ohio.
Filed May 20, 1949, Serial No. 579,244. Published June 10, 1952. Class 23.

564,280. Finished Cast and Forged Metal Fittings—Namely, Hose and Tube Couplings, T's, Elbows, Unions, Return Bends, Welding T's, Screwed Flanges, and Solder Fittings as Commonly Used in Refrigeration, Etc. Edward J. Willems, doing business as Willems & Company, Brooklyn, N. Y.
Filed May 20, 1949, Serial No. 579,245. Published July 8, 1952. Class 13.

564,281. Medicinal Tablet To Be Taken Internally for the Treatment of Inflammation of the Joints of the Human Body. Allied Drugs, Inc., Hackensack, N. J.
Filed Apr. 28, 1949, Serial No. 579,248. Published Jan. 29, 1952. Class 18.

564,282. Silverware or Tableware Storage Chests With Anti-Tarnish Lining. Oneida Ltd., Oneida and Sherrill, N. Y.
Filed May 26, 1949, Serial No. 579,552. Published July 1, 1952. Class 2.

564,283. Hearing-Aids and Acoustic Elements and Accessories Thereof—Namely, Sound Transmitters, Telephone Receivers, Hearing-Inducing Bone Oscillators, and Electric Sound Amplifiers. Sonotone Corporation, Elmsford, N. Y.
Filed June 15, 1949, Serial No. 580,523. Published July 8, 1952. Class 44.

564,284. Combination Children's Bicycle With Detachable Outrigger Wheel Assemblies Usable Separately From the Bicycle. The Huffman Manufacturing Company, Dayton, Ohio.
Filed June 21, 1949, Serial No. 580,842. Published July 8, 1952. Class 22.

564,285. Cabinets for Dispensing Cloth or Paper Towels. American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed June 22, 1949, Serial No. 580,867. Published July 1, 1952. Class 2.

564,286. Cabinets for Dispensing Cloth Towels. American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed June 22, 1949, Serial No. 580,870. Published July 1, 1952. Class 2.

564,287. Cabinets for Dispensing Cloth Towels. American Linen Supply Co., sometimes doing business as Steiner Sales Company Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed June 22, 1949, Serial No. 580,872. Published July 1, 1952. Class 2.

564,288. Metal Screen Doors and Window Screens, and Metal Storm Sash for Buildings. Vulcan Metal Products Company, Birmingham, Ala.
Filed July 5, 1949, Serial No. 581,540. Published June 3, 1952. Class 12.

564,289. Topical Local Anesthetic. Flint, Eaton and Company, Decatur, Ill.
Filed July 8, 1949, Serial No. 581,654. Published June 24, 1952. Class 18.

564,290. Dust Collectors, Dust Conveyors, and Separating Units To Separate Dust From the Air for Use in Industrial Establishments. Charles W. Goldhammer, doing business as Industrial Sheet Metal Works, North Bergen, N. J.
Filed Aug. 2, 1949, Serial No. 582,835. Published June 3, 1952. Class 23.

564,291. Canned Salt Water Fish—Namely, Tuna Fish, Tuna Flakes, Bonito Fish, and Bonito Flakes. Pesquera Iquique S. A., Iquique, Chile.
Filed Aug. 2, 1949, Serial No. 582,855. Published July 1, 1952. Class 46.

564,292. Belting for Transmission of Power, for Use as Conveyor Belts for Transporting or Carrying Various Types and Kinds of Materials for Example, Coal, Etc. The Cincinnati Rubber Mfg. Co., Norwood, Ohio.
Filed Aug. 27, 1949, Serial No. 584,107. Published July 24, 1951. Class 35.

564,293. Medicine for Stimulation of the Central Nervous System, Treatment of Obesity, Control of Appetite, Stimulation of the Sympathetic Nervous System, Treatment of Narcolepsy, Depression, Post-Encephalitic Parkinsonism, Commonly Known as Parkinson's Disease, and Alcoholism. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Aug. 27, 1949, Serial No. 584,159. Published May 20, 1952. Class 18.

564,294. Novelty Toy Savings Banks. Daryl Chase, Logan, Utah.
Filed Sept. 23, 1949, Serial No. 585,217. Published June 17, 1952. Class 22.

564,295. Metal Chalk Troughs, Head and Mullion Trim Channels, and Metal End Stops Used in Installing Chalkboards and Tack Boards. Loxit Systems, Inc., Chicago, Ill.
Filed Oct. 6, 1949, Serial No. 585,853. Published June 17, 1952. Class 12.

564,296. Toy Models or Simulations of Industrial Equipment. Hyster Company, Portland, Oreg.
Filed Oct. 12, 1949, Serial No. 586,166. Published May 13, 1952. Class 22.

564,297. Detergent Preparation for Cleaning the Skin and Soaps. Mark Allen Co., Detroit, Mich.
Filed Oct. 14, 1949, Serial No. 586,263. Published June 17, 1952. Class 52.

564,298. Portable Bath Shower and Sprayer. Sears, Roebuck and Co., Chicago, Ill.
Filed Oct. 26, 1949, Serial No. 586,883. Published July 8, 1952. Class 13.

564,299. Asphalt Additives, Used With Asphalt To Promote Adhesion to Aggregates for Construction Purposes. Lancaster Processes, Inc., New York, N. Y., now by change of name Lancaster Chemical Corporation, a corporation of New York.
Filed Oct. 27, 1949, Serial No. 586,921. Published June 24, 1952. Class 12.

564,300. Toy Characterized as a Fanciful Representation of a Person or Animal in Hollow Form and Made of Flexible Material. John M. Auzin, Whitman, Mass.
Filed Nov. 2, 1949, Serial No. 587,173. Published July 8, 1952. Class 22.

564,301. Washing and Cleaning Compound. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Nov. 5, 1949, Serial No. 587,416. Published July 8, 1952. Class 52.

564,302. Sedative and Diuretic, Containing Phenobarbital and Theobromine. The Arcum Pharmaceutical Corporation, Wilmington, Del., and Washington, D. C.
Filed Nov. 8, 1949, Serial No. 587,458. Published May 27, 1952. Class 18.

564,303. Sedative and Antispasmodic, Containing Phenobarbitol and Belladonna. The Arcum Pharmaceutical Corporation, Washington, D. C.
Filed Nov. 8, 1949, Serial No. 587,459. Published May 27, 1952. Class 18.

564,304. Frozen Eggs and Dried Eggs. Pioneer Hi-Bred Corn Company, Des Moines, Iowa.
Filed Nov. 16, 1949, Serial No. 587,910. Published June 17, 1952. Class 46.

564,305. Nasal Catheters, Stomach Tubes, Rectal Tubes, Tubes Equipped With Needles and Needle Adapters for the Administration of Parenteral Fluids, and Containers for Parenteral Fluids. Baxter Laboratories, Inc., Morton Grove, Ill.
Filed Dec. 9, 1949, Serial No. 589,065. Published July 8, 1952. Class 44.

564,306. Pharmaceutical Preparation for the Treatment of Tuberculosis. Herts Pharmaceuticals Limited, Welwyn Garden City, Hertfordshire, England.
Filed Dec. 16, 1949, Serial No. 589,446. Published May 27, 1952. Class 18.

564,307. Empty Portable Buckets Made of Heat Insulative Material for Receiving Foods, Beverages, and Ice Cubes. The Sponge Rubber Products Company, Shelton, Conn.
Filed Dec. 22, 1949, Serial No. 589,812. Published June 24, 1952. Class 2.

564,308. Rayon Tire Cord Fabric. Industrial Rayon Corporation, Cleveland, Ohio.
Filed Dec. 29, 1949, Serial No. 590,084. Published Jan. 29, 1952. Class 42.

564,309. Liquid Solvents Employed in Cold Degreasing and in the Cleaning of Electric Motors. Currier Company, Oakland, Calif.
Filed Jan. 20, 1950, Serial No. 591,151. Published July 8, 1952. Class 52.

564,310. Waxed Paper Food Dividers. Crown Zellerbach Corporation, also doing business as Western Waxed Paper Company, San Francisco, Calif.
Filed Jan. 28, 1950, Serial No. 591,613. Published June 3, 1952. Class 37.

564,311. Soap in Comminuted Form. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Jan. 27, 1950, Serial No. 591,654. Published June 24, 1952. Class 52.

564,312. Rock Wool Insulation. Charles J. Rusden, doing business as Feltrok Insulation Manufacturing Company, Tacoma, Wash.
Filed Feb. 9, 1950, Serial No. 592,224. Published May 27, 1952. Class 12.

564,313. Floor, Roof, Deck, Shower, Areaway, and Ice-Box Drains and Strainers Therefor; Etc. Hoffman Specialty Company, Indianapolis, Ind., assignor to Hoffman Specialty Mfg. Corp., Indianapolis, Ind., a corporation of Indiana.
Filed Feb. 27, 1950, Serial No. 593,120. Published July 8, 1952. Class 13.

564,314. Gasoline Hose, Distillate Hose, Tank Wagon Hose, Grease Hose, Hydraulic Brake Hose, Air Hose, Water Hose, Steam Hose, Suction Hose, Oil Hose, Molded Garden Hose, Transmission Belt, and Conveyor Belt. Lee Rubber & Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio.
Filed Feb. 27, 1950, Serial No. 593,129. Published June 24, 1952. Class 35.

564,315. Canned Vegetables, as Follows: Asparagus, Green Beans, Etc. Allen Foods, Inc., St. Louis, Mo.
Filed Mar. 6, 1950, Serial No. 593,455. Published July 1, 1952. Class 46.

564,316. Grinding, Abrading, Polishing, Cutting-Off, and Knife Sharpening Wheels. Bay State Abrasive Products Company, Westboro, Mass.
Filed Mar. 14, 1950, Serial No. 593,906. Published Nov. 13, 1951. Class 4.

564,317. Pregnenolone. E. S. Miller Laboratories, Inc., Los Angeles, Calif.
Filed Mar. 20, 1950, Serial No. 594,275. Published May 27, 1952. Class 18.

564,318. Seeds—Namely, Vegetable, Flower, and Grass Seeds. Ferry-Morse Seed Co., Detroit, Mich.
Filed Mar. 23, 1950, Serial No. 594,441. Published July 8, 1952. Class 1.

564,319. Dust Collectors of the Filter Type. Arnold L. Lund, doing business as Dust Filter Company, Chicago, Ill.
Filed Apr. 4, 1950, Serial No. 595,218. Published June 3, 1952. Class 31.

564,320. Empty Beach Bags and General Utility Handled Sack Inflatable to a Cushion for Carrying Articles To Be Used on the Beach. Royal Robes Inc., New York, N. Y.
Filed Apr. 7, 1950, Serial No. 595,417. Published July 1, 1952. Class 3.

564,321. Refrigerating Units Used in Electrically Operated Air Conditioners. Mitchell Manufacturing Company, Chicago, Ill.
Filed Apr. 22, 1950, Serial No. 596,175. Published June 10, 1952. Class 31.

564,322. Pharmaceutical Preparation Designed for Treatment of Vitamin Deficiency States. The S. E. Massengill Company, Bristol, Tenn.
Filed Apr. 29, 1950, Serial No. 596,597. Published May 20, 1952. Class 18.

564,323. Detergents Containing Fatty Alcohol Sulfates for General Use in the Industrial Arts. American Alcolac Corporation, New York, N. Y.
Filed May 4, 1950, Serial No. 596,822. Published July 8, 1952. Class 52.

564,324. Closed Form in Which Units of Fluid and Bulk Material Are Frozen, Etc. Lloyd G. Taylor, Ellicott City, Md.
Filed May 26, 1950, Serial No. 598,225. Published June 17, 1952. Class 31.

564,325. Thermoplastic Materials of the Expanded Polystyrene Type in the Form of Bats or Sheets as Shaped To Form a Sheath for Pipes or Conduits and Used as Insulation. Robinson Industries, Coleman, Mich.
Filed June 16, 1950, Serial No. 599,262. Published June 17, 1952. Class 12.

564,326. Laminated Material Adapted for Structural Use and in the Form of One or More Thin Sheets of Metal in Combination With Plywood or Other Fibrous Material. Haskelite Manufacturing Corporation, Grand Rapids, Mich.
Filed June 19, 1950, Serial No. 599,375. Published July 1, 1952. Class 12.

564,327. Wrapping Paper, Primarily Intended for the Wrapping of Gifts. Benmont Papers, Inc., Bennington, Vt.
Filed June 21, 1950, Serial No. 599,491. Published July 8, 1952. Class 37.

564,328. Oral Preparation in Tablet Form Indicated in Vitamin Deficiency. Abbott Laboratories, North Chicago, Ill.
Filed June 26, 1950, Serial No. 599,735. Published June 3, 1952. Class 18.

564,329. Hair Dye. Richard Hudnut, New York, N. Y.
Filed July 11, 1950, Serial No. 600,487. Published May 27, 1952. Class 51.

564,330. Loose-Leaf Books and Binders; Accounting, Record and Ledger Sheets; Etc. Kalamazoo Limited, Northfield, Birmingham, England.
Filed July 24, 1950, Serial No. 601,150. Published June 10, 1952. Class 37.

564,331. Sodium Hypochlorite Used To Check or Kill Bacteriological Mold or Fungus Growth on Fruit and Vegetables. John C. Maurer, San Jose, Calif.
Filed July 25, 1950, Serial No. 601,225. Published June 24, 1952. Class 6.

564,332. Medicinal Preparations—Namely, Sulfathiazole, Sulfadiazine, Sulfanalamide, Sulfanalidine, Sulfapyridine, Succinylsulfathiazole, and Allied Sulfa Drugs; Paramino Salicylic Acid, Vitamin B12, and Penicillin Troches or Lozenges. All Drugs International Company, New York, N. Y.
Filed Aug. 9, 1950, Serial No. 601,971. Published June 3, 1952. Class 18.

564,333. Antibiotic-Anesthetic Lozenge. Maltbie Laboratories, Inc., Newark, N. J.
Filed Aug. 9, 1950, Serial No. 601,991. Published May 27, 1952. Class 18.

564,334. Washable Base Antibiotic Ointment. The Upjohn Company, Kalamazoo, Mich.
Filed Aug. 9, 1950, Serial No. 602,007. Published June 3, 1952. Class 18.

564,335. Display Albums and Loose Leaf Binders. Joshua Meier Company, Inc., New York, N. Y.
Filed Aug. 16, 1950, Serial No. 602,271. Published June 3, 1952. Class 37.

564,336. Mechanical Device Adapted for Attachment to Typewriters Which Feeds the Work Into the Typewriters. The Egry Register Company, Dayton, Ohio.
Filed Aug. 17, 1950, Serial No. 602,312. Published June 24, 1952. Class 23.

564,337. Dolls. Miss Matteson Doll Co. Not Inc., Matteson, Ill.
Filed Aug. 24, 1950, Serial No. 602,703. Published July 8, 1952. Class 22.

564,338. Ice Cream. Central Ice Cream Company, Chicago, Ill.
Filed Aug. 26, 1950, Serial No. 602,800. Published July 1, 1952. Class 46.

564,339. Games—Namely, a Game Utilizing a Paddle and a Game Piece Similar to a Rubber Ball Which Is Propelled by the Paddle. James A. Core, trading under the name of Neo-Craft Manufacturing Co., Detroit, Mich.
Filed Sept. 1, 1950, Serial No. 603,050. Published July 8, 1952. Class 22.

564,340. Preparation for External Use in Relief of Muscular Aches and Pains Due to Over Exertion or Fatigue. Chester A. Jennings, doing business as HCO Laboratories, Hillsville, Va.
Filed Sept. 6, 1950, Serial No. 603,195. Published May 27, 1952. Class 18.

564,341. Antihypertensive Agents. E. R. Squibb & Sons, New York, N. Y.
Filed Sept. 14, 1950, Serial No. 603,554. Published June 3, 1952. Class 18.

564,342. Raincoats and Topcoats for Men. The Alligator Company, St. Louis, Mo.
Filed Sept. 18, 1950, Serial No. 603,659. Published July 1, 1952. Class 39.

564,343. Plastic Household Decorative Boxes for Use as a Flower Pot, Vase, or Receptacle. National Potteries, Cleveland, Ohio.
Filed Oct. 7, 1950, Serial No. 604,590. Published July 1, 1952. Class 2.

564,344. Multiple Glass Sheet Glazing Units Comprising Two or More Panes of Glass Hermetically Sealed Into and Separated by Metal Sections Used for Insulating Purposes. Safetee Glass Company, Philadelphia, Pa.
Filed Oct. 9, 1950, Serial No. 604,663. Published July 1, 1952. Class 12.

564,345. Antiseptic Preparation for Skin and Scalp. Cubbage & Co., Shreveport, La.
Filed Oct. 12, 1950, Serial No. 604,771. Published June 3, 1952. Class 18.

564,346. Canned Sardines. Monterey Canning Co., Monterey, Calif.
Filed Oct. 14, 1950, Serial No. 604,920. Published July 1, 1952. Class 46.

564,347. Pharmaceutical Preparation Consisting of a Combination Containing Acetylsalicylic Acid in Tablet Form. Charles E. Frosst & Co., Montreal, Quebec, Canada.
Filed Oct. 23, 1950, Serial No. 605,302. Published June 3, 1952. Class 18.

564,348. Rubber Tire Recapping or Retreading Stock, Etc. The Danbury Rubber Company, Inc., Danbury, Conn.
Filed Nov. 7, 1950, Serial No. 606,000. Published June 24, 1952. Class 35.

564,349. Static Pressure or Vacuum Regulators; Diaphragm Valves (Motor Operated); Pneumatic Pilot Valves and Relays; Etc. The Powers Regulator Company, Chicago, Ill.
Filed Nov. 8, 1950, Serial No. 606,084. Published July 1, 1952. Class 23.

564,350. Rotary Gear, Sliding Recessed Door Unit, Complete With Frame. Garrick and Custer, Inc., Los Angeles, Calif.
Filed Nov. 13, 1950, Serial No. 606,289. Published June 3, 1952. Class 12.

564,351. Hammer Toy for Young Children of the Type in Which Objects Are Hammered Through Apertures. John Morrison, Franconia, N. H.
Filed Nov. 14, 1950, Serial No. 606,388. Published July 8, 1952. Class 22.

564,352. Poultry Biologics, Medicines, and Pharmaceutical Preparations, Etc. Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J.
Filed Nov. 17, 1950, Serial No. 606,578. Published July 8, 1952. Class 18.

564,353. Olive Oil. Lekas & Drivas, Inc., doing business under the name of Lekas & Drivas, New York, N. Y.
Filed Nov. 21, 1950, Serial No. 606,713. Published July 1, 1952. Class 46.

564,354. Antihistaminic Compound. Bristol Laboratories Inc., New York and Syracuse, N. Y.
Filed Nov. 22, 1950, Serial No. 606,747. Published May 27, 1952. Class 18.

564,355. Laxative. Bell and Thorne, Inc., Newark, N. J.
Filed Nov. 24, 1950, Serial No. 606,848. Published June 24, 1952. Class 18.

564,356. Unit of Medication for Oral Administration Comprising Multiples of Specially Coated Globules, Etc. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Nov. 28, 1950, Serial No. 607,207. Published May 27, 1952. Class 18.

564,357. Chlorophyllins Sorbalate for Internal Use and Tablets for Internal Use Containing the Same. Keith-Victor Pharmacal Co., St. Louis, Mo.
Filed Dec. 6, 1950, Serial No. 607,334. Published May 27, 1952. Class 18.

564,358. Fresh Cranberries. National Cranberry Association, Hanson, Mass.
Filed Oct. 24, 1950, Serial No. 607,369. Published July 1, 1952. Class 46.

564,359. Isotonic Ophthalmic Preparation Having a Tonicity and pH Values Closely Approximating Those of the Lacrimal Fluids. Alcon Laboratories, Inc., Fort Worth, Tex.
Filed Dec. 9, 1950, Serial No. 607,469. Published June 3, 1952. Class 18.

564,360. Sodium Pentobarbital. O'Connell Brothers, Inc., Overland and St. Louis, Mo.
Filed Dec. 9, 1950, Serial No. 607,511. Published June 24, 1952. Class 18.

564,361. Medicinal Preparation in Tablet Form for the Treatment of Coronary Insufficiency and Hypertension. Bernhoft Laboratories, Inc., doing business under the name and style of Bernhoft Laboratories, Bremerton, Wash.
Filed Dec. 11, 1950, Serial No. 607,536. Published June 17, 1952. Class 18.

564,362. Vitamin B_{12} Supplement for Addition to the Feed of Poultry and Livestock. Commercial Solvents Corporation, New York, N. Y.
Filed Dec. 18, 1950, Serial No. 607,796. Published June 3, 1952. Class 18.

564,363. Antiseptic for the Treatment of Intestinal Infections. Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.
Filed Dec. 21, 1950, Serial No. 607,937. Published June 3, 1952. Class 18.

564,364. Pharmaceutical Preparation for the Treatment of Dermatological Conditions Such as Pruritus and Varicose Ulcers. Sigma Chemical Co., St. Louis, Mo.
Filed Dec. 23, 1950, Serial No. 608,047. Published June 3, 1952. Class 18.

564,365. Sedative Preparation. Ames Company, Inc., Elkhart, Ind.
Filed Dec. 28, 1950, Serial No. 608,140. Published June 3, 1952. Class 18.

564,366. Edible Cones and Cups for Ice Cream. Charles A. Reineke, Jr., St. Louis, Mo.
Filed Dec. 28, 1950, Serial No. 608,177. Published July 1, 1952. Class 46.

564,367. Milk Coolers. Esco Cabinet Company, West Chester, Pa.
Filed Dec. 7, 1950, Serial No. 608,397. Published June 10, 1952. Class 31.

564,368. Upholstered Sofas, Chairs, Love Seats, Upholstery Padding Material and Mattress Filling, Pneumatic Rubber Cushions, Individual or in Assemblies, for Furniture, and Mattress Fields. Foam Rubber Products, Miami, Fla.
Filed Jan. 5, 1951, Serial No. 608,416. Published July 8, 1952. Class 32.

564,369. Combined Billfold and Coin Purse. Amity Leather Products Co., West Bend, Wis.
Filed Jan. 11, 1951, Serial No. 608,651. Published July 1, 1952. Class 3.

564,370. Medicinal Preparation in Liquid Form for Colds. The A and O Company, Incorporated, Greensboro, N. C.
Filed Jan. 17, 1951, Serial No. 608,845. Published May 27, 1952. Class 18.

564,371. Preparation for the Treatment of Diseases of the Thyroid Marketed in the Form of Tablets for Oral Administration. Ciba Pharmaceutical Products, Inc., Summit, N. J.
Filed Jan. 22, 1951, Serial No. 609,076. Published May 27, 1952. Class 18.

564,372. Rice. Conrad Rice Milling and Planting Company, New Iberia, La.
Filed Jan. 24, 1951, Serial No. 609,167. Published June 10, 1952. Class 46.

564,373. Piston Rings. Wilkening Manufacturing Company, Philadelphia, Pa.
Filed Feb. 1, 1951, Serial No. 609,522. Published July 1, 1952. Class 35.

564,374. Automobile and Furniture Wax. Bostwick Laboratories, Inc., Bridgeport, Conn.
Filed Feb. 8, 1951, Serial No. 609,776. Published July 8, 1952. Class 4.

564,375. Power Driven Pumps for Liquids, Particularly Glandless Pumps for Delivering Corrosive Liquids. Nordac Limited, Uxbridge, England.
Filed Feb. 12, 1951, Serial No. 609,982. Published June 24, 1952. Class 23.

564,376. Mineral Wool Asbestos Cement. The Eagle-Picher Company, Cincinnati, Ohio.
Filed Feb. 13, 1951, Serial No. 610,008. Published May 27, 1952. Class 12.

564,377. Steel Wool Pads With Soap Incorporated Therein. V S B Mfg. Co., Brooklyn, N. Y.
Filed Feb. 13, 1951, Serial No. 610,036. Published June 24, 1952. Class 4.

564,378. Medicinal Ointment for External Use To Relieve Skin Irritation. Lionel N. Potasch, doing business under the style and name of Polinel Company, Milwaukee, Wis.
Filed Feb. 16, 1951, Serial No. 610,185. Published May 27, 1952. Class 18.

564,379. Merchandise Envelopes, Bags, and Pouches Made From Transparent Film, Paper, and Foil and Any Combination Thereof. Shellmar Products Corporation, Chicago, Ill.
Filed Feb. 16, 1951, Serial No. 610,191. Published July 1, 1952. Class 2.

564,380. Expanded Perlite for Use in Cements, Mortars, Plasters, and the Like. Ozark-Mahoning Company, Tulsa, Okla.
Filed Feb. 20, 1951, Serial No. 610,333. Published May 27, 1952. Class 12.

564,381. Motor Oil. Westville Oil and Manufacturing, Inc., Westville, Ind.
Filed Feb. 21, 1951, Serial No. 610,394. Published May 27, 1952. Class 15.

564,382. Fungicides for the Treatment of Textiles, Ropes, Plastics, and Wood. Ferro Chemical Corporation, Bedford, Ohio.
Filed Feb. 27, 1951, Serial No. 610,546. Published June 24, 1952. Class 6.

564,383. Rolls of Paper Used for Mechanical Dry-Type Ventilating Air Filters of the Portable Cell, Foldable Frame, and Stationary Pocket Types. American Air Filter Company, Inc., Louisville, Ky.
Filed Mar. 1, 1951, Serial No. 610,658. Published June 3, 1952. Class 37.

564,384. Adhesive-Backed Marking Plates Made of Metal, Used as Advertising Signs. Metalcraft, Inc., Mason City, Iowa.
Filed Mar. 2, 1951, Serial No. 610,753. Published June 24, 1952. Class 50.

564,385. Perfumes, Cologne, Lotion for the Face and Hands, Cold and Vanishing Creams, and Make-Up Base. Parfums Charbert Inc., New York, N. Y.
Filed Mar. 3, 1951, Serial No. 610,797. Published May 27, 1952. Class 51.

564,386. Preparation To Be Taken Internally for the Purpose of Serving as an X-Ray Contrast Medium. American Cystoscope Makers, Inc., New York, N. Y.
Filed Mar. 8, 1951, Serial No. 611,012. Published June 24, 1952. Class 18.

564,387. Wax-Like Material Derived From Castor Oil, Etc. The Baker Castor Oil Company, Jersey City, N. J.
Filed Feb. 23, 1951, Serial No. 611,064. Published June 24, 1952. Class 6.

564,388. Pre-Formed Window-Construction for Use in Buildings and Is in the Nature of a Unit Consisting of a Frame and Window Sash Assembled in Said Frame and Balanced. General Building Materials, Inc., South Bend, Ind.
Filed Mar. 10, 1951, Serial No. 611,129. Published June 17, 1952. Class 12.

564,389. Shower Doors. Flat Metal Manufacturing Company, Franklin Park, Ill.
Filed Mar. 19, 1951, Serial No. 611,511. Published June 17, 1952. Class 12.

564,390. Fibre-Board and Corrugated-Board Boxes, and Shipping Cartons. Container Corporation of America, Chicago, Ill.
Filed Mar. 22, 1951, Serial No. 611,641. Published June 24, 1952. Class 2.

564,391. Starch and Disinfectant Preparation, Warp Sizing Compound for Application to Cotton and Rayons. Texize Chemicals Inc., Greenville, S. C.
Filed Mar. 23, 1951, Serial No. 611,729. Published June 24, 1952. Class 6.

564,392. Ground Meat Sandwiches. Dayton O. Leiby, doing business as Tate-O-Nut Donut Shop, Alhambra, Calif.
Filed Mar. 26, 1951, Serial No. 611,793. Published June 10, 1952. Class 46.

564,393. Closet Bowl Setting Seal Rings Manufactured From Microcrystalline Waxes, Petrolatums, and Asbestos Shorts. Radiator Specialty Company, Charlotte, N. C.
Filed Mar. 29, 1951, Serial No. 611,976. Published June 24, 1952. Class 35.

564,394. Vacuum Diffusion Pump Fluids Comprising High Boiling Organic Liquids. National Research Corporation, Cambridge, Mass.
Filed Mar. 30, 1951, Serial No. 612,028. Published June 24, 1952. Class 6.

564,395. Frozen Fresh Shrimp. Wilbur-Ellis Company, San Francisco, Calif.
Filed Mar. 30, 1951, Serial No. 612,048. Published June 24, 1952. Class 46.

564,396. Constructional Metal for Building Purposes in Bar, Sheet, Tubular, and Girder Form. British Oilfield Equipment Co. Limited, Hunslet, Leeds, England.
Filed Apr. 3, 1951, Serial No. 612,149. Published June 17, 1952. Class 12.

564,397. Plows, Plow Stocks, Steam Engines, Gas Engines, Hay Presses, Etc. A. B. Farquhar Company, York, Pa.
Filed Apr. 4, 1951, Serial No. 612,200. Published June 10, 1952. Class 23.

564,398. Hand-Loomed Cotton Rugs. Topton Rug Manufacturing Co., Mertztown, Pa.
Filed Apr. 5, 1951, Serial No. 612,284. Published July 1, 1952. Class 42.

564,399. Insulated Portable Bucket. The Hamilton Metal Products Company, Hamilton, Ohio.
Filed Apr. 13, 1951, Serial No. 612,611. Published June 24, 1952. Class 2.

564,400. Insulating Jackets for Boiler. Haydon Products Corporation, Brooklyn, N. Y.
Filed Apr. 16, 1951, Serial No. 612,690. Published June 24, 1952. Class 12.

564,401. Toilet Soap. Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Apr. 19, 1951, Serial No. 612,849. Published July 8, 1952. Class 52.

564,402. Cotton Mattresses, Cotton Felt Mattresses, Hair Mattresses, Lamb's Wool Mattresses, Mattresses With Inner Spring Center, Sofa and Couch Cushions, Studio Couches, Box Springs, and Pillows. The International Bedding Company, Baltimore, Md.
Filed Apr. 19, 1951, Serial No. 612,864. Published July 8, 1952. Class 32.

564,403. Furniture—Namely, the Following Wooden Bedroom Furniture, To-Wit: Dressers, Vanities, Etc. Kent-Coffey Manufacturing Company, Lenoir, N. C.
Filed Apr. 20, 1951, Serial No. 612,918. Published July 8, 1952. Class 32.

564,404. Furniture—Namely, the Following Wooden Bedroom Furniture, To-Wit: Dressers, Vanities, Etc. Kent-Coffey Manufacturing Company, Lenoir, N. C.
Filed Apr. 20, 1951, Serial No. 612,919. Published July 8, 1952. Class 32.

564,405. Antibiotic Preparation. Chas. Pfizer & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc., a corporation of Delaware.
Filed Apr. 20, 1951, Serial No. 612,932. Published May 27, 1952. Class 18.

564,406. Toilet-Bowl Cleanser in Powdered Form. West Disinfecting Company, Long Island City, N. Y.
Filed Apr. 23, 1951, Serial No. 613,034. Published July 8, 1952. Class 52.

564,407. Mild Sedative for Relief of Simple Nervousness. Somnyl Pharmacal Corporation of America, New York, N. Y.
Filed Apr. 26, 1951, Serial No. 613,197. Published May 27, 1952. Class 18.

564,408. Fungicide for Veterinary Use. Edward J. Fay, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,219. Published May 27, 1952. Class 18.

564,409. Paper Bags. Stocker Manufacturing Company, Netcong, N. J.
Filed May 4, 1951, Serial No. 613,535. Published July 1, 1952. Class 2.

564,410. Antiseptic Preparation in Liquid and Powder Form. West Laboratories, Inc., Long Island City, N. Y.
Filed May 4, 1951, Serial No. 613,546. Published June 24, 1952. Class 18.

564,411. Adhesive Coated Wood Blocks for Mounting Printing and Engraving Plates, Electrotypes, and the Like. Wells Manufacturing Company, South Bend, Ind.
Filed May 10, 1951, Serial No. 613,750. Published July 1, 1952. Class 50.

564,412. A Thick Tacky Paste Composed of Latex and Hydraulic Cements for Weather-Proofing, Etc. Marine Development Corporation, Washington, D. C., assignor to Crossfield Products Corporation, Los Angeles, Calif., a corporation of California.
Filed May 15, 1951, Serial No. 613,880. Published Jan. 1, 1952. Class 6.

564,413. Natural Iodine in Tablet Form To Supplement the Diet. Makers of Kal, Inc., Los Angeles, Calif.
Filed May 16, 1951, Serial No. 613,935. Published May 27, 1952. Class 18.

564,414. Shelf Supporting Brackets. Unistrut Corporation, Wayne, Mich.
Filed May 17, 1951, Serial No. 614,021. Published July 8, 1952. Class 13.

564,415. Tire and Tube Repair Patches. The Buxbaum Company, Canton, Ohio.
Filed May 25, 1951, Serial No. 614,336. Published June 24, 1952. Class 35.

564,416. Sudsing Cleaner, Cleanser, and Detergent. The Procter & Gamble Company, Cincinnati, Ohio.
Filed May 29, 1951, Serial No. 614,513. Published July 8, 1952. Class 52.

564,417. Ladies' Handbags, Wallets, Travelling Cases, and Beach Bags. U. S. Handbag Corporation, New York, N. Y.
Filed May 29, 1951, Serial No. 614,526. Published July 1, 1952. Class 3.

564,418. Compound Comprising Detergent and Insecticide Ingredients for Use in Cleaning and Moth-Proofing Fabrics. G & P Co., Wilmette, Ill.
Filed June 1, 1951, Serial No. 614,621. Published July 1, 1952. Class 52.

564,419. Chromic Acid. Diamond Alkali Company, Cleveland, Ohio.
Filed June 2, 1951, Serial No. 614,653. Published June 24, 1952. Class 6.

564,420. Plywood Adhesives in the Form of a Glue. United States Plywood Corporation, New York, N. Y.
Filed June 4, 1951, Serial No. 614,732. Published July 8, 1952. Class 5.

564,421. Prefabricated Steel Buildings. Stefco Manufacturing Company, Rossmoyne, Ohio.
Filed June 7, 1951, Serial No. 614,909. Published May 27, 1952. Class 12.

564,422. Air Filters and Parts Thereof. The New York Air Brake Company, Watertown and New York, N. Y.
Filed June 19, 1951, Serial No. 615,400. Published June 3, 1952. Class 31.

564,423. Machinery Packings of Molded Rubber and Synthetic Rubber Compositions With or Without Fabric and Including Packings of Cup and Chevron Type. Rockwell Leather & Packing Co., Inc., Los Angeles, Calif.
Filed June 19, 1951, Serial No. 615,414. Published July 8, 1952. Class 35.

564,424. Packing for Pipe-Joints. American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y.
Filed June 20, 1951, Serial No. 615,434. Published July 8, 1952. Class 35.

564,425. Troche Containing an Antibiotic. American Cyanamid Company, New York, N. Y.
Filed June 27, 1951, Serial No. 615,742. Published May 27, 1952. Class 18.

564,426. Vermiculite Aggregate With a Cement Mix. Pyrok Limited, London, England.
Filed June 27, 1951, Serial No. 615,793. Published July 1, 1952. Class 12.

564,427. Refractory Concrete Mixture. A. P. Green Fire Brick Company, Mexico, Mo.
Filed July 5, 1951, Serial No. 616,094. Published June 3, 1952. Class 12.

564,428. Medicinal Lotion for the Treatment of Poison Ivy and Poison Oak, Etc. O. Robert Ellinger, doing business under the name and style of Sweet Fern Lotion Company, Hasbrouck Heights, N. J.
Filed July 10, 1951, Serial No. 616,281. Published May 27, 1952. Class 18.

564,429. Finely Ground, Heavy Metal Salt-Casein Composition for Use in the Paper Making, Adhesives, and Allied Industries. Hercules Powder Company, Wilmington, Del.
Filed July 10, 1951, Serial No. 616,291. Published June 24, 1952. Class 6.

564,430. Bread. William P. C. Smith, doing business as Blacksmith Shop, Rockport, Mass.
Filed July 18, 1951, Serial No. 616,648. Published July 1, 1952. Class 46.

564,431. Canned and Frozen Fruits and Vegetables. Claygor Corporation, New York, N. Y.
Filed July 30, 1951, Serial No. 617,107. Published June 17, 1952. Class 46.

564,432. Putty. New England Coating Works, Inc., Stamford, Conn.
Filed Aug. 1, 1951, Serial No. 617,205. Published June 3, 1952. Class 12.

564,433. Vinyl Plastic Asphalt Floor Tiles. Mastic Tile Corporation, Newburgh, N. Y.
Filed Aug. 10, 1951, Serial No. 617,543. Published July 1, 1952. Class 12.

564,434. Asphalt Floor Tiles. Mastic Tile Corporation, Newburgh, N. Y.
Filed Aug. 10, 1951, Serial No. 617,544. Published July 1, 1952. Class 12.

564,435. Metallic Oxide Powder Useful as an Intermediate Material in the Fabrication of Electro-Magnetic Parts. Henry L. Crowley & Company, Inc., West Orange, N. J.
Filed Aug. 16, 1951, Serial No. 617,747. Published June 24, 1952. Class 6.

564,436. Unsensitized Photographic Film in Roll or Sheet form. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed Aug. 30, 1951, Serial No. 618,232. Published July 1, 1952. Class 50.

564,437. Wallets. Aristocrat Leather Products, Inc., New York, N. Y.
Filed Sept. 12, 1951, Serial No. 618,670. Published July 8, 1952. Class 3.

564,438. Bulk Laxative. Warner-Hudnut, Inc., New York, N. Y.
Filed Sept. 19, 1951, Serial No. 618,996. Published May 20, 1952. Class 18.

564,439. Multivitamin Preparation. Warner-Hudnut, Inc., New York, N. Y.
Filed Sept. 19, 1951, Serial No. 618,998. Published May 20, 1952. Class 18.

564,440. Miticides Adaptable for Control of Mites Infesting Plant Life. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Sept. 20, 1951, Serial No. 619,001. Published June 24, 1952. Class 6.

564,441. Ladies' Handbags, Wallets, and Travelling Cases. U. S. Handbag Corporation, New York, N. Y.
Filed Sept. 20, 1951, Serial No. 619,045. Published July 1, 1952. Class 3.

564,442. Reducing Aid in Tablet Form. A. H. Mathews & Company, Newark, N. J.
Filed Sept. 21, 1951, Serial No. 619,094. Published May 20, 1952. Class 18.

564,443. Product for the Treatment of Vascular Conditions. Schering Corporation, Bloomfield, N. J.
Filed Sept. 21, 1951, Serial No. 619,108. Published May 27, 1952. Class 18.

564,444. Mineral Dietary Supplements. Henry K. Wampole & Company, Incorporated, Philadelphia, Pa.
Filed Sept. 21, 1951, Serial No. 619,115. Published May 20, 1952. Class 18.

564,445. Ointment Containing Antibiotics. Allied Laboratories, Inc., Kansas City, Mo.
Filed Sept. 27, 1951, Serial No. 619,281. Published May 13, 1952. Class 18.

564,446. Stationery, Consisting of Writing Papers and Correspondence Envelopes. T. V. Allen Company, Los Angeles, Calif.
Filed Sept. 28, 1951, Serial No. 619,325. Published July 1, 1952. Class 37.

564,447. Candy Substitutes, for Restricted Diets. Charles Killgore Company, Inc., Yonkers, N. Y.
Filed Sept. 29, 1951, Serial No. 619,391. Published June 17, 1952. Class 46.

564,448. Paper Napkins and Paper Towels. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Oct. 1, 1951, Serial No. 619,452. Published June 3, 1952. Class 37.

564,449. Fresh Oranges, Fresh Orange Juice, Canned Single Strength Orange Juice, Orange Juice in Concentrated Form, Frozen Orange Juice in Concentrated Form, Marmalade, and Table Syrup. Ralph M. Townsend, Fairfax, Va.
Filed Oct. 29, 1951, Serial No. 620,631. Published July 8, 1952. Class 46.

564,450. Hypnotic. Schering Corporation, Bloomfield, N. J.
Filed Oct. 5, 1951, Serial No. 619,652. Published May 27, 1952. Class 18.

564,451. Power Transmission Belts. The Gates Rubber Company, Denver, Colo.
Filed Oct. 8, 1951, Serial No. 619,703. Published July 8, 1952. Class 35.

564,452. Medicinal Agent Useful in Modifying the Cough Reflex and in the Relaxation of Spastic Bronchi. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Oct. 8, 1951, Serial No. 619,719. Published May 27, 1952. Class 18.

564,453. Antibiotic Preparation. Chas. Pfizer and Co., Inc., Brooklyn, N. Y.
Filed Oct. 9, 1951, Serial No. 619,768. Published May 27, 1952. Class 18.

564,454. Floor, Wall, and Ceiling Tiles of Clay for Interior and Exterior Purposes. The Mosaic Tile Company, Zanesville, Ohio.
Filed Oct. 11, 1951, Serial No. 619,892. Published May 27, 1952. Class 12.

564,455. Sponge Rubber Carpet Cushions. The General Tire & Rubber Company, Akron, Ohio.
Filed Oct. 12, 1951, Serial No. 619,936. Published June 24, 1952. Class 50.

564,456. Power Operated Shallow-Well Pumps and Power Operated Utility or General Purpose Pumps. Robbins & Myers, Inc., Springfield, Ohio.
Filed Oct. 17, 1951, Serial No. 620,110. Published July 8, 1952. Class 23.

564,457. Synthetic Detergent for Washing Clothes. Russell Supply Company, Bridgeville, Pa.
Filed Oct. 23, 1951, Serial No. 620,364. Published June 17, 1952. Class 52.

564,458. Clothes Hampers. F. A. Whitney Carriage Company, Leominster, Mass.
Filed Oct. 24, 1951, Serial No. 620,449. Published June 24, 1952. Class 2.

564,459. Fresh Eggs. Roy G. Marriott, doing business under the trade name Graded Egg Co., Perry, Okla.
Filed Oct. 26, 1951, Serial No. 620,517. Published June 17, 1952. Class 46.

564,460. Plastic Wall Tile. A 1 Plastic Molders, Inc., Chicago, Ill.
Filed Oct. 30, 1951, Serial No. 620,652. Published June 17, 1952. Class 12.

564,461. Permanent Aluminum Awnings. Youngstown Industries, Inc., Girard, Ohio.
Filed Oct. 31, 1951, Serial No. 620,765. Published June 3, 1952. Class 12.

564,462. Receipt Cases, Pocketbooks, Portfolios, and Card Cases. George Seelman & Sons Co., Milwaukee, Wis.
Filed Nov. 3, 1951, Serial No. 620,861. Published July 8, 1952. Class 3.

564,463. Printing Paper and Correspondence Envelopes. The Barton, Duer & Koch Paper Company, Baltimore, Md.
Filed Nov. 7, 1951, Serial No. 620,952. Published June 24, 1952. Class 37.

564,464. Electrically Actuated, Refrigerated Beverage Coolers and Dispensers. The Ebco Manufacturing Company, Columbus, Ohio.
Filed Nov. 8, 1951, Serial No. 621,004. Published June 10, 1952. Class 31.

564,465. Convertible Sofas and Convertible Chairs. Bebry Bedding Corporation, Bayonne, N. J.
Filed Nov. 9, 1951, Serial No. 621,048. Published July 8, 1952. Class 32.

564,466. Women's Nylon Hosiery. Nansue Hosiery Co., Queens Village, N. Y.
Filed Nov. 13, 1951, Serial No. 621,161. Published July 1, 1952. Class 39.

564,467. • Industrial Pumps. Nagle Pumps, Inc., Chicago, Heights, Ill.
Filed Nov. 1, 1951, Serial No. 621,605. Published June 3, 1952. Class 23.

564,468. Piping Attachment for Producing Differential Pressure To Allow Lift of Valve Disc to Full Open Position. Edward Valves, Inc., East Chicago, Ind.
Filed Nov. 26, 1951, Serial No. 621,661. Published July 8, 1952. Class 13.

564,469. Rodenticides. d-Con Company, Inc., Chicago, Ill.
Filed Nov. 28, 1951, Serial No. 621,757. Published June 24, 1952. Class 6.

564,470. Toilet Tissue. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Dec. 3, 1951, Serial No. 622,012. Published June 10, 1952. Class 37.

564,471. Candy and Salted Nuts. Mary Sue Sales Co., Baltimore, Md.
Filed Dec. 11, 1951, Serial No. 622,345. Published June 17, 1952. Class 46.

564,472. Frozen Confections on a Stick. Hammond Ice Cream Co., Inc., Malden, Mass.
Filed Dec. 13, 1951, Serial No. 622,436. Published June 24, 1952. Class 46.

564,473. Toilet Seats, Toilet Bowls, and Parts Thereof. Arkwright Merchandising Corporation, New York, N. Y.
Filed Dec. 15, 1951, Serial No. 622,523. Published July 8, 1952. Class 13.

564,474. Transfer Papers. Masson Seeley and Company Limited, London, England.
Filed Dec. 17, 1951, Serial No. 622,608. Published June 17, 1952. Class 37.

564,475. Cotton Textile Fabric in the Piece. Frank R. Redman, Yardley, Pa.
Filed Dec. 28, 1951, Serial No. 622,954. Published July 1, 1952. Class 42.

564,476. Valves for General Steam Power Plant Service. Yarnall-Waring Company, Philadelphia, Pa.
Filed Jan. 4, 1952, Serial No. 623,229. Published July 8, 1952. Class 13.

564,477. Condensed Burnt Sugar Syrup. Knotty Pine Food Products, Centerville, Iowa.
Filed Jan. 8, 1952, Serial No. 623,310. Published June 24, 1952. Class 46.

564,478. Anhydrous Ammonia. Shell Chemical Corporation, New York, N. Y.
Filed Jan. 11, 1952, Serial No. 623,479. Published June 24, 1952. Class 6.

564,479. Yeast Autolysate for Flavoring Soups and Gravies. Vico Products Company, Chicago, Ill.
Filed Jan. 12, 1952, Serial No. 623,521. Published July 1, 1952. Class 46.

564,480. Metallic Fittings and Couplings for Fluid Conduits. Harry E. Reese, Fort Worth, Tex., assignor to Stratoflex, Inc., Fort Worth, Tex., a corporation of Texas.
Filed Jan. 16, 1952, Serial No. 623,679. Published July 8, 1952. Class 13.

564,481. Coffee. Hard & Rand, Inc., New York, N. Y.
Filed Jan. 18, 1952, Serial No. 623,762. Published July 1, 1952. Class 46.

564,482. Pipe Joints or Couplings Made of Iron, Steel, Brass, or Other Materials Used To Connect Lengths of Metallic Pipe. Jefferson Union Company, Inc., Lexington, Mass.
Filed Jan. 18, 1952, Serial No. 623,767. Published July 8, 1952. Class 13.

564,483. Pencils. Swan Pencil Company, Inc., New York, N. Y.
Filed Jan. 25, 1952, Serial No. 624,110. Published June 24, 1952. Class 37.

564,484. Filters for Coffee Making Apparatus. Cory Corporation, operating under the name Nicro Steel Products Co. Division of Cory Corporation, Chicago, Ill.
Filed Jan. 29, 1952, Serial No. 624,229. Published June 10, 1952. Class 31.

564,485. Ladies' Handbags. Jack Greenbaum, New York, N. Y.
Filed Feb. 5, 1952, Serial No. 624,536. Published July 1, 1952. Class 3.

564,486. Antituberculosis Compound. Hoffmann - La Roche Inc., Nutley, N. J.
Filed Feb. 9, 1952, Serial No. 624,743. Published May 27, 1952. Class 18.

564,487. Purses. St. Thomas Inc., Gloversville, N. Y.
Filed Feb. 13, 1952, Serial No. 624,900. Published July 1, 1952. Class 3.

564,488. Water Repellent Wood Preservative. Chapman Chemical Company, Memphis, Tenn.
Filed Feb. 14, 1952, Serial No. 624,930. Published June 24, 1952. Class 6.

564,489. Chemical Composition in Liquid Form for Disinfecting Seeds of Cereal Grains and the Like. W. A. Cleary Corporation, New Brunswick, N. J.
Filed Feb. 19, 1952, Serial No. 625,194. Published June 24, 1952. Class 6.

564,490. Textile Fabrics in the Piece of Rayon and Nylon. Hego Fabrics, Inc., New York, N. Y.
Filed Feb. 21, 1952, Serial No. 625,351. Published July 1, 1952. Class 42.

564,491. Wetting Agent for Textiles, Paper, Metal, Ceramics, and Plastics. Haas Miller Corporation, Philadelphia, Pa.
Filed Feb. 27, 1952, Serial No. 625,599. Published June 24, 1952. Class 6.

564,492. Silicate of Soda. Philadelphia Quartz Company, Philadelphia, Pa.
Filed Mar. 13, 1952, Serial No. 626,408. Published July 8, 1952. Class 6.

Service Marks

564,493. Life Insurance Brokerage Services. William Roy Carrick, Worcester, Mass.
Filed Mar. 9, 1950, Serial No. 593,648. Published July 1, 1952. Class 102.

564,494. Collecting Through Research, Study, Investigation, Group Meetings, and Other Appropriate Means, Etc. The Society for the Advancement of Management, Inc., New York, N. Y.
Filed May 20, 1950, Serial No. 597,846. Published July 1, 1952. Class 100.

564,495. Arranging for Extension of Credit to the Customers of Subscribing Hotels and Restaurants and Making Collections From the Customers on Behalf of the Subscribers. National Credit Card, Inc., Portland, Oreg.
Filed Sept. 18, 1951, Serial No. 618,937. Published July 1, 1952. Class 102.

564,496. Arranging for Extension of Credit to the Customers of Subscribing Hotels and Restaurants and Making Collections From the Customers on Behalf of the Subscribers. National Credit Card, Inc., Portland, Oreg.
Filed Sept. 18, 1951, Serial No. 618,938. Published July 1, 1952. Class 102.

Collective Marks

564,497. Organizing of Chapters and Regional Groups and Maintenance of Membership in a National Collegiate Fraternity. Sigma Phi Epsilon Fraternity, Richmond, Va.
Filed May 24, 1950, Serial No. 598,046. Published July 1, 1952. Class 100.

564,498. Stimulating and Maintaining Interest in Public Affairs, Citizenship, and Civic and Community Activities, Etc. Sertoma International, Kansas City, Mo.
Filed Sept. 18, 1950, Serial No. 603,701. Published July 1, 1952. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

564,499. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) McNeill and McNeill, Los Angeles, Calif. Original filed, act of 1905, Oct. 2, 1946; amended to application under act of 1946, Principal Register, Oct. 15, 1947; amended to Supplemental Register June 2, 1949, Serial No. 510,100.

Patio

Prints

For Tablecloths, Textile Tea Sets, Window Curtains, and Towels.
Claims use since Jan. 12, 1942.

564,500. (Class 39. Clothing.) Elgin Knit Sportswear, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 17, 1948; amended to application, Supplemental Register, May 14, 1952, Serial No. 565,325.

CHALKIES

For Women's Sweaters and Sweater Ensembles, Comprising a Slip Over Sweater, and an Open Sweater.
Claims use since June 1948.

564,501. (Class 51. Cosmetics and Toilet Preparations.) Giviemme, S. A., Milano, Italy. Original filed, act of 1946, Principal Register, Sept. 29, 1948; amended to application, Supplemental Register, Feb. 9, 1950, Serial No. 566,112.

SUPER LAVANDA ★ PIEMONTE-REALE ★

A translation of the mark is "Superior Lavender Royal Piedmont."

For Perfumes and Toilet Water.

Claims use since April 1940 in Italy; and since 1947 in commerce among the several States.

564,502. (Class 19. Vehicles.) Hanna Engineering Works, Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 18, 1949; amended to application, Supplemental Register, Feb. 14, 1952, Serial No. 574,097.

Glide-ride

For Air Cylinders of the Shock Absorbing Type Which Cushion by Air Under Pressure.

Claims use since Jan. 1, 1947.

564,503. (Class 30. Crockery, Earthenware, and Porcelain.) Metlox Manufacturing Co., Manhattan Beach, Calif. Original filed, act of 1946, Principal Register, May 10, 1949; amended to application, Supplemental Register, June 28, 1952, Serial No. 578,511.

CALIFORNIA PROVINCIAL

For Pottery, Dinnerware, and Analogous Glazed Earthenware Made Substantially of Earth or Clay, and Consisting of Cups, Saucers, Plates, Platters, Bowls, Pitchers, Dishes, Gravy Boats, Covered Dishes, Tumblers, Tea and Coffee Pots, Salt and Pepper Shakers, Fruit and Jelly Dishes, and Salad Sets.

Claims use since Mar. 24, 1949.

564,504. (Class 46. Foods and Ingredients of Foods.) Samuel J. Palermo, doing business as Palermo Importing Co., Rochester, N. Y. Original filed, act of 1946, Principal Register, June 4, 1949; amended to application, Supplemental Register, Dec. 14, 1951, Serial No. 579,997.

Palermo

For Vegetable Oil for Salad and Cooking.

Claims use since February 1948.

564,505. (Class 22. Games, Toys, and Sporting Goods.) United States Whip Company, doing business under the name and style of U. S. Line Company, Westfield, Mass. Original filed, act of 1946, Principal Register, Oct. 7, 1949; amended to application, Supplemental Register, July 3, 1952, Serial No. 585,965.

PRECISIONIZED

For Fishing Lines.

Claims use since Aug. 31, 1949.

564,506. (Class 44. Dental, Medical, and Surgical Appliances.) Di-Fram-Ette, Inc., Denver, Colo., assignee of Marie Rose Mayer. Original filed, act of 1946, Principal Register, Dec. 19, 1949; amended to application, Supplemental Register, Jan. 29, 1951, Serial No. 589,586.

di-fram-ette

For Pessaries.

Claims use since Aug. 19, 1949.

564,507. (Class 21. Electrical Apparatus, Machines, and Supplies.) General Cable Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 18, 1950; amended to application, Supplemental Register, July 9, 1952, Serial No. 591,028.

SAFETY

Applicant claims ownership of Registrations Nos. 31,329 and 60,370.

For Electrical Wires and Cables.

Claims use since 1889.

564,508. (Class 46. Foods and Ingredients of Foods.) The Security Milling Co., Inc., trading as Mid-West Mills, Abilene, Kans. Filed Feb. 1, 1950, Serial No. 591,804.



The words "Enriched Bleached Flour" and "White Biscuit" are disclaimed. The drawing is lined for the colors blue and orange, however no claim to color is made.

For Wheat Flour.

Claims use since Aug. 7, 1947.

564,509. (Class 46. Foods and Ingredients of Foods.) Pillsbury Mills, Inc., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Apr. 3, 1950; amended to application, Supplemental Register, July 8, 1952, Serial No. 595,151.

BESTFAT

For Poultry Feed.

Claims use since Feb. 10, 1950.

564,510. (Class 22. Games, Toys, and Sporting Goods.) Crown Toy Mfg. Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 27, 1950; amended to application, Supplemental Register, July 3, 1952, Serial No. 596,394.

Magic Sword

For Optical Illusion Toy in Which the Rotating Simulation of a Sword Inside of a Glass Case Gives the Appearance of Cutting Through an Insert Applied in the Glass Front of the Object.

Claims use since Feb. 1, 1950.

564,511. (Class 30. Crockery, Earthenware, and Porcelain.) Waylande Gregory, Bound Brook, N. J. Original filed, act of 1946, Principal Register, Apr. 27, 1950; amended to application, Supplemental Register, May 15, 1952, Serial No. 596,419.

JEWEL CRYSTALS

For Crockery, Earthenware, and Porcelain Products—Namely, Plates, Trays, Bowls, Vases.

Claims use since Apr. 15, 1950.

564,512. (Class 19. Vehicles.) Convert-O-Shield, Inc., Long Beach, Calif. Original filed, act of 1946, Principal Register, May 20, 1950; amended to application, Supplemental Register, Feb. 11, 1952, Serial No. 597,814.

BLO-BYE

For Anti-Draft Shields Attachable to the Inside of Automobile Window Frames.

Claims use since Jan. 6, 1950.

564,513. (Class 19. Vehicles.) Rayco Mfg. Co., Paterson, N. J. Original filed, act of 1946, Principal Register, July 20, 1950; amended to application, Supplemental Register, June 11, 1952, Serial No. 600,973.

LOCK-TITE

For Automobile Seat Covers.

Claims use since Jan. 15, 1950.

564,514. (Class 21. Electrical Apparatus, Machines, and Supplies.) Sonic Industries, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 28, 1950; amended to application, Supplemental Register, July 21, 1951, Serial No. 602,861.

Super Sonic

For Television Amplifiers.

Claims use since March 1948.

564,515. (Class 22. Games, Toys, and Sporting Goods.) The Hi-Flier Manufacturing Company, Decatur, Ill. Filed Aug. 31, 1950, Serial No. 603,011.



The representation of the kite is disclaimed. The drawing is lined for red and blue.

For Kites.

Claims use since Aug. 17, 1932.

564,516. (Class 50. Merchandise Not Otherwise Classified.) Lox-On, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 19, 1950; amended to application, Supplemental Register, Mar. 7, 1952, Serial No. 605,165.

LOX-ON

For Non-Refillable and Tamper-Proof Closures for Containers, Such as Bottles.

Claims use since Aug. 14, 1950.

564,517. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Exhibit Supply Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 15, 1950; amended to application, Supplemental Register, July 18, 1951, Serial No. 607,704.

ELECTRO SNAP

For Electrical Switches.

Claims use since Aug. 10, 1949.

564,518. (Class 25. Locks and Safes.) Technical Glass Company, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 8, 1951; amended to application, Supplemental Register, Jan. 11, 1952, Serial No. 608,519.

ShurLok

For Door Locks and Hardware Therefor Sold as Units.
Claims use since May 2, 1950.

564,519. (Class 39. Clothing.) Julius Kayser & Co., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 10, 1951; amended to application, Supplemental Register, July 24, 1952, Serial No. 609,929.

TAPER

For Fabric Gloves.
Claims use since Dec. 18, 1950.

564,520. (Class 21. Electrical Apparatus, Machines, and Supplies.) Broil-Quik, Inc., New York, N. Y., assignor to Broil-Quik Company, New York, N. Y., a copartnership. Original filed, act of 1946, Principal Register, Feb. 20, 1951; amended to application, Supplemental Register, June 12, 1952, Serial No. 610,306.

BROIL-QUIK

For Electric Broilers.
Claims use since Jan. 18, 1951.

564,521. (Class 39. Clothing.) Henry Hertz, doing business under the name and style of Hertz Hosiery Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Feb. 23, 1951; amended to application, Supplemental Register, Oct. 18, 1951, Serial No. 610,443.

Perfection

For Women's Nylon Hosiery.
Claims use since Sept. 1, 1949.

564,522. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Standard Steel Works, North Kansas City, Mo. Original filed, act of 1946, Principal Register, Mar. 30, 1951; amended to application, Supplemental Register, Jan. 31, 1952, Serial No. 612,040.

EZ

For Portable Metal Racks for Shelving.
Claims use since Dec. 21, 1950.

564,523. (Class 21. Electrical Apparatus, Machines, and Supplies.) Sanitron, Inc., Long Island City, N. Y. Filed Apr. 10, 1951, Serial No. 612,475.

DEODOR-LITE

The word "Lite" is disclaimed.
For Electrically Operated Ozone-Producing Devices of the Type Employing Ultra-Violet Ray Lamps.
Claims use since Mar. 27, 1950.

564,524. (Class 12. Construction Materials.) John A. Barrison, doing business as John A. Barrison Building Specialties, Thorntown, Ind. Original filed, act of 1946, Principal Register, Apr. 16, 1951; amended to application, Supplemental Register, Dec. 4, 1951, Serial No. 612,675.

MODERN ROLL

For Roll Type Door Assemblies.
Claims use since Sept. 6, 1950.

564,525. (Class 18. Medicines and Pharmaceutical Preparations.) Albert McCammant, Neillsville, Wis. Original filed, act of 1946, Principal Register, June 12, 1951; amended to application, Supplemental Register, May 13, 1952, Serial No. 615,075.

McCAMMANT'S



For Lumpjaw Medicine.
Claims use since Apr. 12, 1951.

564,526. (Class 1. Raw or Partly Prepared Materials.) Rudy-Patrick Seed Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, June 19, 1951; amended to application, Supplemental Register, July 2, 1952, Serial No. 615,415.

LODI

For Clover Seed.
Claims use since February 1951.

564,527. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) The Schwarzenbach-Huber Company, New York, N. Y. Original filed, act of 1946, Principal Register, July 30, 1951; amended to application, Supplemental Register, July 15, 1952, Serial No. 617,128.

SCHWARZENBACH

For Fabrics in the Piece Made of Silk and Synthetic Fibers.
Claims use since July 9, 1951.

564,528. (Class 46. Foods and Ingredients of Foods.) Clearfield Cheese Co., Inc., Curwensville, Pa. Original filed, act of 1946, Principal Register, Aug. 17, 1951; amended to application, Supplemental Register, May 27, 1952, Serial No. 617,783.

NU-TAST

For Pasteurized Process American Cheese Spread.
Claims use since Sept. 12, 1950.

564,529. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Joseph B. Smith, doing business as Pipe Line Development Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, Aug. 18, 1951; amended to application, Supplemental Register, July 15, 1952, Serial No. 617,846.

WELD+ENDS

For Couplings for Pipe Lines, Original Installations and Repairs.
Claims use since July 10, 1951.

564,530. (Class 39. Clothing.) W. B. Foundations, Incorporated, Newark, N. J. Original filed, act of 1946, Principal Register, Oct. 18, 1951; amended to application, Supplemental Register, May 9, 1952, Serial No. 620,179.

FRONT 'N CENTER

For Corsettes Which Consist of Combinations of Girdles and Brassières, Girdles and Brassières.
Claims use since January 1951.

564,531. (Class 22. Games, Toys, and Sporting Goods.) The Actual Lure Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 30, 1951; amended to application, Supplemental Register, Feb. 29, 1952, Serial No. 620,653.

"TINY TROUTER"

For Fish Lures Comprising Real Fish Encased in Plastic.
Claims use since June 20, 1950.

564,532. (Class 19. Vehicles.) Edwin P. Lamphier, Hartford, Conn. Original filed, act of 1946, Principal Register, July 31, 1951; amended to application, Supplemental Register, Feb. 12, 1952, Serial No. 617,151.

PEDALFLASH

For Metal Strips Coated or Surfaced With Reflective Material Which Are Affixed to Bicycle Pedals.
Claims use since June 10, 1950.

564,533. (Class 46. Foods and Ingredients of Foods.) Leaf Brands, Inc., doing business under the name and style of Overland Candy Co., a division of Leaf Brands, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 20, 1951; amended to application, Supplemental Register, June 11, 1952, Serial No. 621,472.

Malt-ettes

For Candy.
Claims use since January 1950.

564,534. (Class 24. Laundry Appliances and Machines.) Mandel Brothers, Inc., Chicago, Ill. Filed Dec. 21, 1951, Serial No. 622,751.

Manchester

For Automatic Electric Washing Machines for Use in the Home.
Claims use since July 10, 1950.

564,535. (Class 46. Foods and Ingredients of Foods.) Eugene M. Stockton, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 2, 1952; amended to application, Supplemental Register, June 5, 1952, Serial No. 623,088.

BACONIZED

For Liquid Food Flavoring Preparation Used on Potatoes, Seafoods, and Meats.
Claims use since February 1950.

564,536. (Class 46. Foods and Ingredients of Foods.) Hygrade Food Products Corporation, Detroit, Mich. Original filed, act of 1946, Principal Register, Jan. 22, 1952; amended to application, Supplemental Register, May 23, 1952, Serial No. 623,889.

Middle States

For Pasteurized Process Cheese Food.
Claims use since May 8, 1948.

564,537. (Class 52. Detergents and Soaps.) Lynn Robert Akers, Louisville, Ky. Filed Jan. 23, 1952, Serial No. 623,940.

Akers'

For Shampoo.
Claims use since August 1948.

564,538. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) National Ribbon Corp., Long Island City, N. Y. Original filed, act of 1946, Principal Register, Feb. 5, 1952; amended to application, Supplemental Register, May 15, 1952, Serial No. 624,561.

LayCWeve

For Woven Edge Textile Ribbons in the Piece of Taffeta, Satin, Moire, Cotton, Rayon, Protein Fibres and Combinations Thereof.

Claims use since Nov. 27, 1950.

564,539. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Shirley Fabrics Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 12, 1952; amended to application, Supplemental Register, June 19, 1952, Serial No. 626,347.

RINSIT

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibers and Mixtures Thereof.

Claims use since Feb. 5, 1951.

TRADE-MARK REGISTRATIONS RENEWED

38,441. MABOR. Registered June 10, 1902. The Magnesia Syndicate, Ltd., Westminster, England. Re-renewed June 10, 1952, to Mabor Limited, London, England, a company incorporated under the laws of Great Britain. Cements, Bricks, Crucibles, Etc. Class 12.

39,135. THEOCIN. Registered Oct. 28, 1902. Farbenfabriken of Elberfeld Co. Re-renewed Oct. 28, 1952, to Winthrop-Stearns Inc., New York, N. Y., a corporation of Delaware. Diureticum. Class 18.

85,617. "ARROWHEAD" ETC. AND DESIGN. Registered Feb. 27, 1912. Richmond Hosiery Mills, Chattanooga, Tenn., and Rossville, Ga. Re-renewed Feb. 27, 1952, to Richmond Hosiery Mills, Rossville, Ga., a corporation of Georgia. Hosiery. Class 39.

86,271. ANIS DEL MONO. Registered Apr. 30, 1912. Besch & Co., Badalona, near Barcelona, Spain, a Spanish firm. Re-renewed Apr. 30, 1952. Anisette. Class 49.

86,965. RHINOKRAFT. Registered June 11, 1912. The Union Bag and Paper Company, Jersey City, N. J., and New York, N. Y. Re-renewed June 11, 1952, to Union Bag & Paper Corporation, New York, N. Y., a corporation of New Jersey. Paper Bags. Class 2.

87,768. BINDARENE. Registered Aug. 6, 1912. International Paper Co. Re-renewed Aug. 6, 1952, to International Paper Company, New York, N. Y., a corporation of New York. Concentrated Waste Lyes of the Sulfite-Cellulose Manufacture. Class 5.

87,997. HOWE. Registered Aug. 20, 1912. The Howe Scale Company, Rutland, Vt., a corporation of Vermont. Re-renewed Aug. 20, 1952. Scales. Class 26.

88,121. QUEEN ANNE. Registered Aug. 27, 1912. Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut. Re-renewed Aug. 27, 1952. Lamp-Burners. Class 34.

88,122. "HOME-RUN" AND DRAWING. Registered Aug. 27, 1912. Seacoast Canning Co., Eastport, Maine. Re-renewed Aug. 27, 1952, to R. J. Peacock Canning Co., Lubec, Maine, a corporation of Maine. Sardines. Class 46.

88,184. ACME-THUNDERER. Registered Sept. 3, 1912. Joseph Hudson. Re-renewed Sept. 3, 1952, to J. Hudson & Co. (Whistles) Limited, Birmingham, England, a corporation organized under the laws of Great Britain. Whistle-Calls. Class 22.

88,644. HANCOCK. Registered Oct. 8, 1912. The United Injector Company. Re-renewed Oct. 8, 1952, to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey. Ejectors. Class 23.

88,666. BEAUTY—. Registered Oct. 15, 1912. Colgate & Co., New York, N. Y. Re-renewed Oct. 15, 1952, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Soaps and Soap Powders. Class 52.

88,676. "H & H" AND REPRESENTATION OF ROTARY SWITCH. Registered Oct. 15, 1912. The Hart & Hegeman Manufacturing Company. Re-renewed Oct. 15, 1952, to The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut. Electrical Switches, Electrical Cut-Outs, Switch-Plates, Switch-Receptacles, Etc. Class 21.

88,874. MAINSPRING. Registered Oct. 29, 1912. The Harter Milling Co., Toledo and Fostoria, Ohio. Re-renewed Oct. 29, 1952, to The Mennel Milling Company, Toledo, Ohio, a corporation of Ohio. Wheat-Flour. Class 46.

89,052. TUXEDO. Registered Nov. 5, 1912. Naumkeag Steam Cotton Company, Salem, Mass., a corporation of Massachusetts. Re-renewed Nov. 5, 1952. Sheets and Pillow-Cases. Class 42.

258,384. REPRESENTATION OF GROTESQUE LETTER "D." Registered July 9, 1929. Deutsche Werke Kiel Aktiengesellschaft, Kiel, Germany, a corporat'on organized under the laws of Germany. Renewed July 9, 1949. Steamships, Motor Ships, Sailing Vessels, Steam Tugs, Motor Tugs, Etc. Class 19.

288,705. "RK" ETC. AND DESIGN. Registered Nov. 3, 1931. Rich. Klinger Gesellschaft mit beschränkter Haftung. Renewed Nov. 3, 1951, to Rich. Klinger Aktiengesellschaft, Gumpoldskirchen, Austria, a corporation organized under the laws of Austria. Brake Linings and Clutch Linings. Class 35.

291,035. KOMET. Registered Jan. 26, 1932. The Bentley Engineering Company. Renewed Jan. 26, 1952, to The Bentley Engineering Company, Limited, Leicester, England, a corporation organized under the laws of Great Britain. Knitting Machinery and Parts Thereof. Class 23.

291,836. TAPEX. Registered Feb. 23, 1932. New-York Hamburger Gummi-Waaren Compagnie, Hamburg, Germany. Renewed Feb. 23, 1952, to S & G Rubber Co., Inc., Mendham, N. J., a corporation of New York. Combs for the Hair of Any Material, Except Combs of Precious Material. Class 40.

292,273. "MINERVINI" AND REPRESENTATION OF CHARIOT ETC. Registered Mar. 8, 1932. John Minervini, Inc. Renewed Mar. 8, 1952, to John Minervini, Hoboken, N. J. Canned Tomatoes. Class 46.

292,691. GEAR SAFETY NO. 28. Registered Mar. 22, 1932. The Elco Grease & Oil Company. Renewed Mar. 22, 1952, to The Elco Lubricant Corporation, Cleveland, Ohio, a corporation of Ohio. Lead Base Lubricating Grease. Class 15.

293,093. FUME-SAF. Registered Apr. 12, 1932. The Truscon Laboratories, Detroit, Mich. Renewed Apr. 12, 1952, to Devoe & Raynolds Company, Inc., New York, N. Y., a corporation of New York. Paint Enamel. Class 16.

293,109. WHITECAP. Registered Apr. 12, 1932. E. B. Blount Sons. Renewed Apr. 12, 1952, to Blount Seafood Corporation, Warren, R. I., a corporation of Rhode Island. Fresh Oysters. Class 46.

293,326. THE COMPLEAT HATTER. Registered Apr. 19, 1932. John Cavanagh, Ltd., New York, N. Y. Renewed Apr. 19, 1952, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware. Caps and Hats for Men and Women. Class 39.

293,531. SWANETTES. Registered Apr. 26, 1932. Ryff & Co. Ltd., Bern, Switzerland, a corporation organized under the laws of Switzerland. Renewed Apr. 26, 1952. Knitted Underwear for Men, Women, and Children. Class 39.

293,884. "S" WITHIN CIRCLE DESIGN. Registered May 10, 1932. Jos. Stokes Rubber Co. Renewed May 10, 1952, to Stokes Molded Products, Inc., Trenton, N. J., a corporation of New Jersey. Electrical Hard Rubber Products—Namely, Battery Containers, Battery Jars, Battery Covers, Etc. Class 21.

293,934. "SILVERLEAF" ETC. AND DRAWING. Registered May 10, 1932. Lehman Bros., Incorporated. Renewed May 10, 1952, to Lehman Bros. Corp., Jersey City, N. J., a corporation of New Jersey. Ready-Mixed Paints, Paint Enamels, Varnishes, Etc. Class 16.

294,084. FRANCIS MARION. Registered May 17, 1932. D. W. Ohlandt & Sons. Renewed May 17, 1952, to F. W. Ohlandt, doing business as D. W. Ohlandt & Sons, Charleston, S. C. Coffee. Class 46.

294,139. SECRETARIAL. Registered May 17, 1932. L C Smith & Corona Typewriters Inc., New York, N. Y. Renewed May 17, 1952, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York. Carbon Paper and Typewriter Ribbons. Class 11.

294,143. CLOVER FARM. Registered May 17, 1932. The Grocers & Producers Co., doing business as Clover Farm Stores. Renewed May 17, 1952, to Clover Farm Stores Corporation, Cleveland, Ohio, a corporation of Ohio. Toothpicks. Class 44.

294,289. THYRITE. Registered May 24, 1932. General Electric Company, Schenectady, N. Y., a corporation of New York. Renewed May 24, 1952. Composite Dielectric or Resistance Material in Molded Form. Class 21.

294,336. WHIFF. Registered May 24, 1932. Artcraft Silk Hosiery Mills, Inc. Renewed May 24, 1952, to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware. Hosiery. Class 39.

294,529. "SMITH CORONA" ETC. AND DRAWING. Registered May 31, 1932. L C Smith & Corona Typewriters Inc., New York, N. Y. Renewed May 31, 1952, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York. Carbon Paper and Typewriter Ribbons. Class 11.

294,696. "WATERLOX" AND REPRESENTATION OF KEY. Registered June 7, 1932. Waterlox, Inc., Detroit, Mich. Renewed June 7, 1952, to The Empire Varnish Company, Cleveland, Ohio, a corporation of Ohio. Transparent Liquid Chemical Waterproofing Compound for Steel, Linoleum, Etc. Class 16.

294,839. "VITALIS" ETC. AND REPRESENTATION OF PORTION OF CARTON. Registered June 7, 1932. Bristol-Myers Company. Renewed June 7, 1952, to Bristol-Myers Company, New York, N. Y., a corporation of Delaware. Hair Tonic. Class 51.

295,080. "MINERVINI" AND REPRESENTATION OF GIRL ETC. Registered June 14, 1932. John Minervini, Inc. Renewed June 14, 1952, to John Minervini, Hoboken, N. J. Alimentary Paste Products. Class 46.

295,432. "POPE" AND DESIGN. Registered June 28, 1932. Pope Machinery Corporation, Haverhill, Mass., a corporation of Massachusetts. Renewed June 28, 1952. Shoe Machinery. Class 23.

295,572. FLOCCULATOR. Registered July 5, 1932. The Dorr Company, Inc., New York, N. Y. Renewed July 5, 1952, to The Dorr Company, Stamford, Conn., a corporation of Delaware. Apparatus for the Treatment of Solids Suspended in Liquids and More Particularly for Agitating Apparatus. Class 23.

295,608. PLACD-RITE. Registered July 5, 1932. Benjamin Ansehl, doing business as The Benjamin Ansehl Company, University City, Mo. Renewed July 5, 1952, to The Benjamin Ansehl Company, St. Louis, Mo., a corporation of Missouri. Preparation for Dressing the Hair. Class 51.

295,674. TRAVL-TWEED. Registered July 5, 1932. Morris W. Haft & Brothers, Inc. Renewed July 5, 1952, to The House of Swansdown, Inc., New York, N. Y., a corporation of New York. Woolen Piece Goods and Woolen Suitings and Coatings in the Piece. Class 42.

296,063. "KELTIC" AND DRAWING. Registered July 19, 1932. The Lurgan Weaving Company. Limited, Lurgan, Northern Ireland, a corporation incorporated under the laws of Great Britain and Northern Ireland. Renewed July 19, 1952. Bedspreads, Sheets, Pillow Cases, Etc. Class 42.

296,950. SWAN. Registered Aug. 30, 1932. Louis H. Lehman, doing business as Lehman Sprayshield Company. Renewed Aug. 30, 1952, to Lehman Sprayshield Company, Philadelphia, Pa., a corporation of Pennsylvania. Glass Shower Stall Doors, Shower Bath Shields, and Bath Enclosures. Class 13.

296,981. PYRANOL. Registered Aug. 30, 1932. General Electric Company, Schenectady, N. Y., a corporation of New York. Renewed Aug. 30, 1952. Capacitors and Dielectric Material. Class 21.

296,982. REPRESENTATION OF GLOBE, ETC. Registered Aug. 30, 1932. Waterlox, Inc., Detroit, Mich. Renewed Aug. 30, 1952, to The Empire Varnish Company, Cleveland, Ohio, a corporation of Ohio. Transparent Liquid Chemical Waterproofing Compound for Steel, Linoleum, Rubber, Etc. Class 16.

297,139. MERMAID. Registered Sept. 6, 1932. Louis H. Lehman, doing business as Lehman Sprayshield Company. Renewed Sept. 6, 1952, to Lehman Sprayshield Company, Philadelphia, Pa., a corporation of Pennsylvania. Glass Shower Stall Doors, Glass Shower Bath Shields, and Glass Bath Enclosures. Class 13.

297,182. REPRESENTATION OF CHICK, ETC. Registered Sept. 6, 1932. The Bon Ami Company, New York, N. Y., a corporation of Delaware. Renewed Sept. 6, 1952. Tooth Paste. Class 51.

297,187. "MEADS SERVAMUS FIDEM" AND DESIGN. Registered Sept. 6, 1932. Mead Johnson & Company, Evansville, Ind., a corporation of Indiana. Renewed Sept. 6, 1952. Cod Liver Oil and Viosterol—Namely, Activated Ergosterol in Oil. Class 18.

297,362. LAWN-BOY. Registered Sept. 13, 1932. Outboard Motors Corporation, Milwaukee, Wis. Renewed Sept. 13, 1952, to Outboard, Marine & Manufacturing Company, Waukegan, Ill., a corporation of Delaware. Lawn Mowers. Class 23.

297,479. HOYO. Registered Sept. 13, 1932. Fernandez, Pallicio y Compania, S. en C. Renewed Sept. 13, 1952, to F. Pallicio y Compañia, S. A. Fábrica de Tabacos, Habana, Cuba, a corporation organized under the laws of the Republic of Cuba. Cigars. Class 17.

297,515. "EFEDRON" ETC. AND REPRESENTATION OF CARTON. Registered Sept. 20, 1932. Hart Drug Corporation, Miami, Fla., a corporation of Florida. Renewed Sept. 20, 1952. Inhalants for the Relief of Congestions of the Nasal Cavity. Class 18.

297,592. VITAMIZED. Registered Sept. 20, 1932. Maritime Milling Co., Inc., Buffalo, N. Y., a corporation of New York. Renewed Sept. 20, 1952. Poultry Feeds. Class 46.

297,659. REPRESENTATION OF ARROW AND TRIANGLE DESIGN. Registered Sept. 27, 1932. Carboloy Company, Inc., Detroit, Mich. Renewed Sept. 27, 1952, to General Electric Company, Schenectady, N. Y., a corporation of New York. Hard Metal Composition or Alloy Suitable for or for Use in Cutting Tools, Dies, and for Other Uses. Class 14.

297,660. REPRESENTATION OF ARROW AND TRIANGLE DESIGN. Registered Sept. 27, 1932. Carboloy Company, Inc., Detroit, Mich. Renewed Sept. 27, 1952, to General Electric Company, Schenectady, N. Y., a corporation of New York. Hard Metal Composition or Alloy Suitable for or for Use in Cutting Tools, Dies, and for Other Uses. Class 14.

297,733. MASTERPIECE. Registered Sept. 27, 1932. International Silver Company. Renewed Sept. 27, 1952, to The International Silver Company, Meriden, Conn., a corporation of Connecticut. Silver-Plated Flat-Ware and Hollow-Ware for Table Use and the Like. Class 28.

297,810. SULPHEN. Registered Oct. 4, 1932. Robert McNeil. Renewed Oct. 4, 1952, to McNeil Laboratories, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Preparation for Promoting the Granulation and Healing of Wounds. Class 18.

297,813. HERCOLYN. Registered Oct. 4, 1932. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Renewed Oct. 4, 1952. Ester of Rosin Treated so as to Retard Its Susceptibility to Oxidation. Class 6.

297,814. ABALYN. Registered Oct. 4, 1932. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Renewed Oct. 4, 1952. Ester of Rosin. Class 6.

297,882. SHRUNKETIZED. Registered Oct. 4, 1932. N. Fluegelman & Co., Inc. Renewed Oct. 4, 1952, to N. Fluegelman & Co., Inc., New York, N. Y., a corporation of New York. Woolen, Silk, Cotton, Rayon, and/or Combinations Thereof in the Piece, Woven, Knitted, or Netted. Class 42.

297,903. POP-IT. Registered Oct. 4, 1932. The Cracker Jack Co., Chicago, Ill., a corporation of Illinois. Renewed Oct. 4, 1952. Shelled Popcorn. Class 46.

297,990. BG. Registered Oct. 11, 1932. Boston Gear Works, Inc. Renewed Oct. 11, 1952, to The Murray Company of Texas, Inc., North Quincy, Mass., a corporation of Delaware. Chains for Sprocket Wheels. Class 13.

298,002. POWER FLEX. Registered Oct. 11, 1932. Accurate Parts Manufacturing Company, Cleveland, Ohio, a corporation of Ohio. Renewed Oct. 11, 1952. Clutch Plates and Discs. Class 23.

298,046. "PEDWIN SHOES" ETC. AND DESIGN. Registered Oct. 11, 1932. Brown Shoe Company, Inc., St. Louis, Mo., a corporation of New York. Renewed Oct. 11, 1952. Shoes Made of Leather, Cloth, Canvas, or Combinations Thereof. Class 39.

298,077. CUSHIONFLEX. Registered Oct. 11, 1932. Accurate Parts Manufacturing Company, Cleveland, Ohio, a corporation of Ohio. Renewed Oct. 11, 1952. Clutch Plates and Discs. Class 23.

298,218. BURN-A-LAY. Registered Oct. 18, 1932. The Kendall Company, Boston, Mass., and Chicago, Ill. Renewed Oct. 18, 1952, to The Kendall Company, Boston, Mass., a corporation of Massachusetts. Ointment Prepared Especially for the Relief of Burns, Scalds, Sunburn, Etc. Class 18.

298,341. TOP CARD. Registered Oct. 25, 1932. Lambert Marketing Co., Sacramento, Calif., a corporation of California. Renewed Oct. 25, 1952. Fresh Grapes, Fresh Deciduous Fruits, Fresh Vegetables. Class 46.

298,486. BG. Registered Oct. 25, 1932. Boston Gear Works, Inc. Renewed Oct. 25, 1952, to The Murray Company of Texas, Inc., North Quincy, Mass., a corporation of Delaware. Spur Gears, Worm Gears and Worms Therefor; Etc. Class 23.

298,524. RESEARCH. Registered Nov. 1, 1932. Graton & Knight Company, Worcester, Mass., a corporation of Massachusetts. Renewed Nov. 1, 1952. Leather Belting. Class 35.

298,526. IZOLIN. Registered Nov. 1, 1932. Burton-Dixie Corporation. Renewed Nov. 1, 1952, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware. Pillows. Class 32.

298,560. TOESEAL. Registered Nov. 1, 1932. Artcraft Silk Hosiery Mills, Inc. Renewed Nov. 1, 1952, to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Delaware. Women's Hosiery. Class 39.

298,612. GRAYSOL. Registered Nov. 1, 1932. William S. Gray & Co., New York, N. Y., a corporation of New York. Renewed Nov. 1, 1952. Chemical Products—Namely, Acetone, Methyl Alcohol, Denatured Alcohol, and Mixtures Thereof. Class 6.

298,626. "S-C-T". Registered Nov. 1, 1932. Standard-Coosa-Thatcher Company, Chattanooga, Tenn., a corporation of Tennessee. Renewed Nov. 1, 1952. Cotton Thread. Class 43.

298,627. "MIDHAM". Registered Nov. 1, 1932. Standard-Coosa-Thatcher Company, Chattanooga, Tenn., a corporation of Tennessee. Renewed Nov. 1, 1952. Cotton Thread. Class 43.

298,749. REPRESENTATION OF PUSH-OUT-CARTON AND DRAWING LINED FOR BLUE. Registered Nov. 1, 1932. Mono Service Co., Newark, N. J. Renewed Nov. 1, 1952, to Continental Can Company, Inc., New York, N. Y., a corporation of New York. Cartons. Class 2.

299,001. "VOL-TEX" ETC. AND DESIGN. Registered Nov. 15, 1932. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Nov. 15, 1952. Mixture of Egg Material and Other Substances Suitable for Use as an Ingredient in Making Cakes and Other Food Products. Class 46.

299,002. REPRESENTATION OF CIRCLE AND PARALLELOGRAM DESIGNS. Registered Nov. 15, 1932. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Nov. 15, 1952. Mixture of Egg Material and Other Substances Suitable for Use as an Ingredient in Making Cakes and Other Food Products. Class 46.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

294,091. LEGGETT'S. Registered May 17, 1932. Frank S. Leggett, Albany, Ga. Table Sauce in the Nature of a Dressing for Meats, Sandwiches, Etc. Class 46. Canceled July 29, 1952. Canc. No. 5852.

340,569. CHO-LEINE COMPOUND. Registered Nov. 17, 1936. The Warren-Teed Products Company, Columbus, Ohio. Medical Compound Recommended for Hepatic Torpor and Liver Disorders Where Oxgall Combinations Are Indicated. Class 6. Canceled Aug. 15, 1952. Canc. No. 5857.

369,403. HERITAGE. Registered July 25, 1939. United Furniture Stores, Chicago, Ill. Kitchen Furniture—Namely, Tables, Chairs, Servers, Cabinets; Etc. Class 32. Canceled Aug. 15, 1952. Canc. No. 5457.

394,951. GENERAL ARICO. Registered May 5, 1942. General Grocery Co., Phoenix, Ariz. Canned Fruits and Vegetables. Class 46. Canceled Aug. 15, 1952. Canc. No. 5878.

403,914. "BEAUFORT ROYAL" AND DESIGN. Registered Oct. 19, 1943. The Geneva Corporation, Lake Geneva, Wis. Blue Cheese. Class 46. Canceled Aug. 15, 1952. Canc. No. 5823.

421,313. WINTER-PETS. Registered May 28, 1946. Irving H. Elfenbein, New York, N. Y. Women's and Children's Bedjackets, Nightgowns, and Pajamas. Class 39. Canceled Aug. 15, 1952. Canc. No. 5795.

443,103. GREEN THUMB MARL. Registered July 19, 1949. Maryland Lime & Fertilizer Corp., Hagerstown, Md. Fertilizer. Class 10. Canceled July 29, 1952. Canc. No. 5819.

510,881. CARRIAGE TRADE. Registered June 14, 1949. Perry H. Chipurnoi, Inc., New York, N. Y. Macaroons. Class 46. Canceled July 29, 1952. Canc. No. 5650.

518,509. TREASURES IN LINGERIE. Registered Dec. 6, 1949. The Eastern Isles, Inc., New York, N. Y. Bed Jackets, Brunch Coats, House Coats, House Dresses, Etc. Class 39. Canceled Aug. 15, 1952. Canc. No. 5551.

531,832. WINTER PETS. Registered Oct. 10, 1950. Colura Feminine Fashions, Inc., New York, N. Y. Women's and Children's Bed Jackets, Nightgowns and Pajamas. Class 39. Canceled Aug. 15, 1952. Canc. No. 5794.

541,226. SKIN KARE. Registered Apr. 17, 1951. Essential Cosmetics Inc., New York, N. Y. Cosmetic Preparations—Namely, Cold Cream, Liquid Cream Oil, Etc. Class 51. Canceled Aug. 15, 1952. Canc. No. 5815.

548,283. STUDIO. Registered Sept. 18, 1951. Koh-I-Noor, Pencil Factory L. & C. Hardtmuth, National Corporation, Ceske Budejovice, Czechoslovakia. Office Supplies—Namely, Ordinary Pencils, Copying and Colour Pencils; Etc. Class 37. Canceled Aug. 15, 1952. Canc. No. 5849.

549,732. MIX-MATCHES. Registered Oct. 16, 1951. Adelaar Bros., Inc., New York, N. Y. Girls', Misses', and Ladies' Skirts and Blouses. Class 39. Canceled Aug. 15, 1952. Canc. No. 5828.

550,175. "JH AND URITEST" AND DESIGN. Registered Oct. 30, 1951. John Hilgers, Binghamton, N. Y. Reagent Used in Detecting Urine Sugar. Class 6. Canceled July 29, 1952. Canc. No. 5830.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

296,241. ACTO. Registered Aug. 2, 1932. Atlas Supply Company, Newark, N. J. Automobile Radiator Antifreeze Compound, Automobile Radiator Cleaning Compound, Etc. Class 52. It is ordered that the renewal certificate of Registration No. 296,241, issued July 1, 1952, be, and it is, hereby canceled as improperly issued.

297,234. STYLE MART. Registered Sept. 6, 1932. Merit Clothing Company, Inc., Mayfield, Ky. Men's, Young Men's, Youths', and Boys' Coats, Vests, Pants, Etc. Class 39. Corrected as follows: In the certificate, lines 2 and 16; in the heading to the statement; in line 2 of the statement; and in the printed signature, "Inc.," should be deleted.

315,325. ROYAL SCOT. Registered July 24, 1934. Macmillan Petroleum Corporation, Los Angeles, Calif. Petroleum Products—Namely, Lubricating Oil. Class 15. Corrected as follows: In the certificate, line 4; and in the statement, line 3, "California" should be *Delaware*.

389,575. "LAWSON" AND DESIGN. Registered Aug. 12, 1941. United States Stove Company, South Pittsburg, Tenn. Gas-Operated Water Heaters and Gas-Operated Heating-Stoves. Class 34. Amended as follows: In the statement, line 8, "gas-operated water heaters and" is deleted.

530,775. VICKERS. Registered Sept. 19, 1950. Vickers, Incorporated, Detroit, Mich. Hydraulic Power Transmission Devices—Namely, Hydraulic Pumps and Hydraulic Motors, Etc. Class 23. The drawing is hereby amended to appear as follows:



543,780. VICKERS. Registered June 12, 1951. Vickers, Incorporated, Detroit, Mich. Pressure Switches. Class 21. The drawing is hereby amended to appear as follows:



547,425. "NE WAY" WITHIN DESIGN. Registered Sept. 4, 1951. Newaygo Engineering Company, Newaygo, Mich. Dual Axle Spring Assemblies and Foundry Equipment—Namely, Core Cooling Conveyors, Etc. Class 23. Amended as follows: In the statement, lines 6 and 7, "dual axle spring assemblies and" is deleted.

550,979. TRU-FLITE. Registered Nov. 20, 1951. A. G. Spalding & Bros. Inc., Chicopee, Mass. Skis and Ski Poles. Class 22. Corrected as follows: In the statement, column 2, line 10, for "Registration Number 607,873" read *Registration Number 507,873*;

551,076. VICKERS. Registered Nov. 20, 1951. Vickers, Incorporated, Detroit, Mich. Pressure Control Valves, Volume Control Valves, Etc. Class 13. The drawing is hereby amended to appear as follows:



TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 199,136. Registered June 2, 1925. Atkins & Durbrow, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

A&D

For Peat Moss Used as Poultry Litter, Stable Bedding, Hoof Stuffing, and by Nurserymen, Florists, and Gardeners.
Claims use since about the year 1903.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 294,221. Registered May 24, 1932. Plantabbs Corporation, Baltimore, Md., a corporation of Maryland. Republished by registrant.

FULTON'S A-1

The notation "A-1" is disclaimed apart from the mark as shown.
For Insecticides.
Claims use since Nov. 10, 1931.

Reg. No. 296,562. Registered Aug. 9, 1932. (Classified in Class 16.) Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant. See this number in Class 16 for goods and mark.
Claims use since about Feb. 23, 1932.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 230,461. Registered July 26, 1927. Julian D'Este Company, Boston, Mass. Republished by Kaye and Mac Donald, Inc., West Orange, N. J., a corporation of New Jersey.

D'ESTE

For Pressure Regulators for Steam, Water, Gas, Air, Oil, and Other Fluids and Gases; Combustion Controls of Steam and Hydraulic Types; Steam Traps of Float, Bucket, Expansion, and Return Types, Together With Relief Valves, Temperature Ball Cocks, Tank Valves, and Various Types of Pump Regulators.
Claims use since on or about Jan. 1, 1908.

CLASS 16

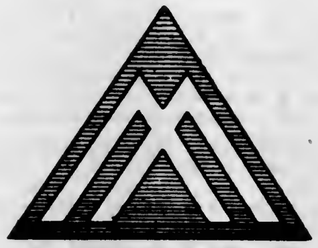
PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 69,301. Registered June 2, 1908. Benjamin Moore & Co., Brooklyn, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

MURESCO

For Dry Powder for Non-Washable Wall Finish.
Claims use since Dec. 18, 1892.

Reg. No. 159,041. Registered Sept. 19, 1922. Benjamin Moore & Co., Jersey City, N. J., and Brooklyn, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.



For Mixed Paints, Stains, Paint Enamels, Fillers, Prepared Paints, Surfacers, Varnishes, Colors in Oil, and Paste Paints.
Claims use since Nov. 30, 1920.

Reg. No. 159,444. Registered Sept. 26, 1922. Benjamin Moore & Co., Jersey City, N. J., and Brooklyn, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

TILE-LIKE

For Varnish Stain.
Claims use since December 1908.

Reg. No. 174,227. Registered Oct. 9, 1923. Benjamin Moore & Co., Jersey City, N. J., and Brooklyn, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

MOVAR

For Varnish for All Interior and Exterior Purposes.
Claims use since March 1919.

Reg. No. 176,047. Registered Nov. 13, 1923. Benjamin Moore & Co., Jersey City, N. J., and Brooklyn, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

Vaco

For Ready-Mixed Paints.
Claims use since 1907.

Reg. No. 212,503. Registered May 4, 1926. Benjamin Moore & Co., Jersey City, N. J., and Brooklyn, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

THERMICAL

For Liquid Paints and Paint Enamels.
Claims use since January 1925.

Reg. No. 223,660. Registered Feb. 8, 1927. Benjamin Moore & Co., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

SANI-FLAT

For Flat Oil Paints.
Claims use since July 1908.

Reg. No. 223,984. Registered Feb. 15, 1927. Benjamin Moore & Co., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

UTILAC

For Lacquers, Paint Enamels, and Varnish Enamels.
Claims use since Aug. 31, 1926.

Reg. No. 282,686. Registered Apr. 28, 1931. Benjamin Moore & Co., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

MOORWHITE

For Ready-Mixed Paints.
Claims use since Nov. 18, 1930.

Reg. No. 296,562. Registered Aug. 9, 1932. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

PETREX

For Synthetic Resin To Be Used in Protective Coatings and in Molded Products.
Claims use since about Feb. 23, 1932.

Reg. No. 351,864. Registered Nov. 9, 1937. Benjamin Moore & Co., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

THERMALUM

For Ready Mixed Paints and Paint Enamels.
Claims use since Nov. 4, 1936.

Reg. No. 399,098. Registered Dec. 15, 1942. Benjamin Moore & Co., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

NUWITE

For Flat Paint in Paste and Ready-Mixed Form.
Claims use since Dec. 4, 1907.

Reg. No. 422,346. Registered July 16, 1946. Benjamin Moore & Co., Jersey City, N. J., and New York, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

PAQUA

For Ready Mixed Paints.
Claims use since 1906.

Reg. No. 435,887. Registered Jan. 13, 1948. Benjamin Moore & Co., Flemington, N. J., and New York, N. Y., a corporation of New Jersey. Republished by registrant, present address New York, N. Y.

RETARDO

For Mixed Paints.
Claims use since Nov. 20, 1946.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 392,411. Registered Dec. 23, 1941. Eleanor M. Jackson, doing business as R. & J. Chemical Co., Wilmette, Ill. Republished by Phenex Laboratories, Inc., Chicago, Ill., a corporation of Illinois.

PHENEX

For Antiseptic Germicide.
Claims use since Mar. 1, 1940.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 441,217. Registered Nov. 2, 1948. R. G. Le Tourneau, Inc., Peoria, Ill., a corporation of California. Republished by registrant.

TOURNADOZER

For Unitary Self-Propelled Implement for Road Grading or the Like, Comprised of a Four-Wheeled Vehicle Having a Push Grader or Bulldozer Blade Mounted at the Front Thereof.
Claims use since on or about Feb. 1, 1947.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 297,034. Registered Aug. 30, 1932. Elgin National Watch Company, Chicago and Elgin, Ill., a corporation of Illinois. Republished by registrant, present address Elgin, Ill.

ALL AMERICAN

For Watches, Watch Movements, and Watch Cases.
Claims use since on or about Apr. 15, 1932.

CLASS 37

PAPER AND STATIONERY

Reg. No. 297,923. Registered Oct. 4, 1932. Byron Weston Company, Dalton, Mass., a corporation of Massachusetts. Republished by registrant.



HOLMESDALE BOND

The word "Bond" is disclaimed apart from the mark as shown.
For Ledger and Bond Paper.
Claims use since on or about May 1, 1932.

CLASS 39

CLOTHING

Reg. No. 354,455. Registered Feb. 15, 1938. Lerner Blouse Co., New York, N. Y., a corporation of Pennsylvania. Republished by registrant, present address Philadelphia, Pa.



For Ladies' Blouses, Ladies' Shirtwaists, and Ladies' Waists.
Claims use since Mar. 12, 1936.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 294,961. Registered June 14, 1932. Nehi, Inc., Columbus, Ga. Republished by Nehi Corporation, Columbus, Ga., a corporation of Delaware.



The words "Dry" and "Pale Ginger Ale" are disclaimed apart from the mark as shown.
For Nonalcoholic, Noncereal, Maltless Beverages and Concentrates for Making the Same.
Claims use since on or about Mar. 5, 1931.

Reg. No. 294,962. Registered June 14, 1932. Nehi, Inc., Columbus, Ga. Republished by Nehi Corporation, Columbus, Ga., a corporation of Delaware.

RUMS DRY

The word "Dry" is disclaimed apart from the mark as shown.
For Nonalcoholic, Noncereal, Maltless Beverages and Concentrates for Making the Same.
Claims use since on or about Mar. 5, 1931.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 310,909. Registered Mar. 13, 1934. Jas. E. Pepper & Company, Lexington, Ky. Republished by Schenley Industries, Inc., New York, N. Y., a corporation of Delaware.

MAYFLOWER

For Whiskey.
Claims use since 1883.

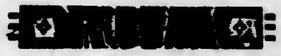
Reg. No. 320,176. Registered Dec. 18, 1934. Schenley Products Company, New York, N. Y. Republished by Schenley Industries, Inc., New York, N. Y., a corporation of Delaware.

CREAM OF KENTUCKY

For Whiskey.
Claims use since Oct. 1, 1923.

Reg. No. 334,166. Registered Apr. 21, 1936. Ostrucon Distilled Products Co., Inc., New York, N. Y. Republished by Ron Zorro Distillers, St. Thomas, Virgin Islands, a corporation of the Virgin Islands.

REDBULL



The word "Rum" is disclaimed apart from the mark as shown.
For Rum.
Claims use since Oct. 25, 1935.

Reg. No. 410,806. Registered Dec. 19, 1944. Bernheim Distilling Company, Louisville, Ky. Republished by Schenley Distillers, Inc., New York, N. Y., a corporation of Delaware.

BLUE RIBBON

For Whiskey.
Claims use since 1876.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 295,403. Registered June 28, 1932. Hercules Powder Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

DAINTEX

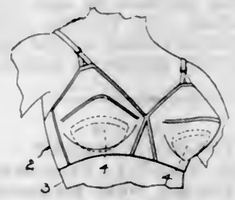
For Detergent Compound Used in Laundering and Cleaning Processes.
Claims use since about Jan. 18, 1932.

PATENTS

GRANTED SEPTEMBER 23, 1952

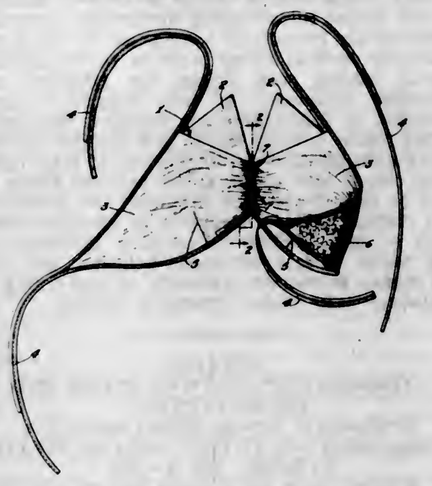
GENERAL AND MECHANICAL

2,611,129
BREAST SUPPORTER AND FORMER
Jules Copenhagen, Cleveland, Ohio
Application April 16, 1949, Serial No. 87,929
2 Claims. (Cl. 2—42)



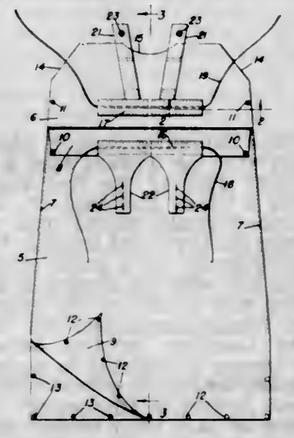
1. A breast supporting and forming device adapted to be used in combination with a brassière of standard construction comprising a lengthwise, crescent-shaped pad having wedge-shaped vertical cross section decreasing in width toward its bottom, said pad including a convexly-curved front surface convexly curved in both vertical and transverse directions and formed with a convexly-curved top edge, a concavely-curved rear surface smaller than said front surface and concavely curved in both vertical and transverse directions and formed with a convexly-curved top edge, and a rearwardly-inclined, convexly-curved supporting and forming top surface encircled by the convexly-curved top edges of said front and rear surfaces, said top surface having its central portion extended upwardly higher than the side portions and being dimensioned to effect support of the portion of a breast adjacent to its root.

2,611,130
LADY'S HALTER
Fred H. Engelman, Hanover, N. J.
Application December 1, 1951, Serial No. 259,409
5 Claims. (Cl. 2—42)



1. A lady's halter comprising two superimposed fabrics, said fabrics comprising front and rear sides, said fabrics having spaced breast pockets, said fabrics differing from one another in nature of material or color thereof, shirring means disposed between said fabrics centrally and vertically on the inner sides of said fabrics, and piping means uniting the outer edges of said fabrics.

2,611,131
CHILD'S SLEEPING GARMENT
Meade S. Heeter, Indianapolis, Ind.
Application July 14, 1950, Serial No. 173,923
1 Claim. (Cl. 2—69.5)

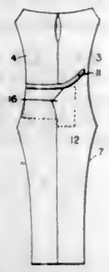


A child's sleeping garment of the bag type comprising a front member and a back member in the form of elongated sheets, the major lower portion of said back member and the entire front member being of the same size and shape and stitched together along their adjacent side edges except at the end portions of said front member to provide the latter with a top bib flap and a bottom closure flap, releasable means at the free corners of the bib flap to secure the latter in operative position, releasable means along the edges of the closure flap to secure the latter in closed position, elongated transversely disposed facing strips respectively secured on the inside of the bib flap along its upper edge and centrally between its sides, and on the inside of the opposed portion of the back member, drawstrings threaded under said facing strips and adapted to be passed about the sides of the body directly under the arms and tied together, and pairs of coacting shoulder straps projecting from and carried by the tops of said front and back members and having means to adjustably connect the same, said shoulder straps being extended upwardly from the facing strips.

2,611,132
DROP SEAT GARMENT
Ruth A. Moeller, Miami, Fla.
Application June 22, 1950, Serial No. 169,631
2 Claims. (Cl. 2—79)

1. In a drop seat garment, the combination of a front jacket panel and a front trouser panel

with the rear edges thereof adjacent the waistline junction between said panels converging to form a notch at said junction, a rear jacket panel terminating at its lower edge in a skirt portion having a forwardly extending portion constituting a pair of pocket forming members adapted to underlie said front trouser panel, the edges defining said notch providing an entrance to said pocket when said pocket forming members underlie said front trouser panel, and a rear trouser panel adapted to overlie the skirt portion of said rear jacket panel and having a belt attached along the upper edge thereof with a free end of said belt extending beyond the front edge of said rear trouser panel, said rear trouser



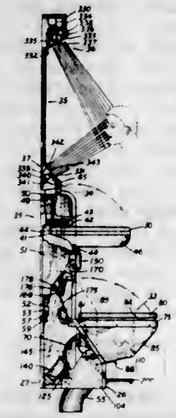
panel having a flap at its forward edge and below said belt with the forward edge of said flap and the lower edge of the free end of said belt defining a notch therebetween, said front and rear trouser panels having their respective rear and front edges secured together from their lower ends upwardly to a point spaced below said flap and belt with the unsecured edges providing a drop seat portion at the upper portion of said rear trouser panel, said belt adapted to encircle the waistline junction between said jacket and trouser panels and to maintain said flap in position beneath the front trouser panel with the said notches in engagement, the overlying position of said front trouser panel with respect to said flap forming a side closure.

2,611,133
HALF SLIP
Irving L. Brown, New York, N. Y.
Application April 20, 1950, Serial No. 157,055
2 Claims. (Cl. 2—211)



1. A body garment comprising a skirt-like member formed from a plurality of blanks of material including front and rear lower blanks formed with upper and lower edges and with substantially straight, opposed vertical edges which are non-parallel and which are inwardly inclined toward their upper edges and which are joined together to form vertical side seams, the upper edges of said blanks being provided with central, convexly curved arcuate portions and substantially horizontal linear edges extending outwardly from the terminals of the curved portions, a plurality of upper blanks each having central concavely curved lower portions which are joined to the convexly curved arcuate portions of the front and rear blanks and having opposed inwardly inclined vertical edges and substantially horizontal linear lower edges extending outwardly from the terminals of the concavely curved portions which are joined to portions of the former linear edges, a plurality of blanks of lace-like material formed with substantially straight opposed vertical edges and upper and lower edges, the latter being joined to the remaining portions of said former linear edges and having the vertical edges thereof joined to the vertical edges of the upper blanks, and hose supporting means secured to said lower blanks.

2,611,134
FOLDING TOILET
John W. Jarrett, Russell L. Tangeman, and Max B. Schmidt, Dayton, Ohio, assignors, by mesne assignments, to Loeffelholz Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 21, 1947, Serial No. 762,474
21 Claims. (Cl. 4—10)

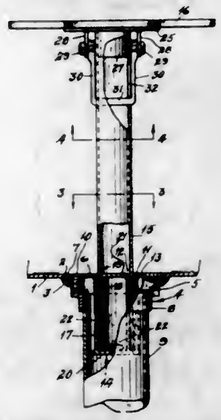


3. A folding toilet unit of the character described comprising a frame, a hopper mounted in said frame for swinging movement between a substantially horizontal open position and a substantially vertical closed position, power operated means within said frame for effecting said swinging movement of said hopper, a panel mounted in said frame for swinging movement in the space directly above said hopper between a retracted position out of the way of said hopper when closed and an advanced position above the back of said hopper for shielding the interior of said frame, means responsive to opening movement of said hopper for causing movement of said panel to said advanced position, and control means accessible exteriorly of said frame for actuating said power operated means.

2,611,135
COMBINATION SHOWER STOOL AND DRAIN FITTING
Benjamin N. Greene, Miami Beach, Fla.
Application July 27, 1950, Serial No. 176,133
9 Claims. (Cl. 4—185)

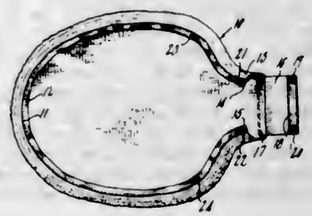
1. A cover plate for a drain fixture, said plate having a central opening and drain apertures in

the area surrounding said opening, two concentric cylindrical members in axial alignment with said plate opening and of such diameters as to provide an annular channel between them opening at the top into said plate opening, at least



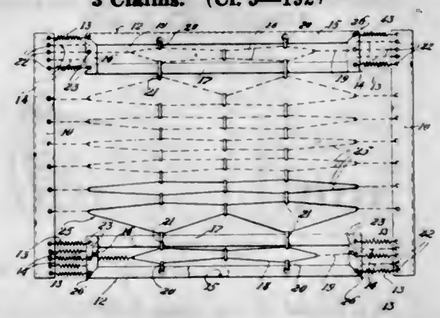
the outer one of said cylindrical members being tubular and formed integrally with said plate, and a closure for the bottom of said channel formed integrally with both said cylindrical members, said channel being provided with a discharge opening.

2,611,136
COVER FOR TOILET SEATS OR LIDS
Maurice L. Diamond, Bronx, N. Y.
Application February 13, 1948, Serial No. 8,047
2 Claims. (Cl. 4—242)



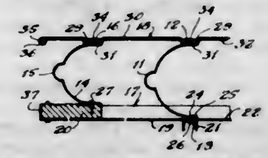
1. A cover for a toilet lid having a rear end, comprising a body of a substantially pliable material shaped for position over the surface of said lid and having a circumferential edge extending for position underneath said surface, said circumferential edge terminating in two spaced apart ends, an extension piece connected with said body and of such dimension to extend around said rear end of said lid, and respective complementary fastening means adjacent said ends of said circumferential edge and associated with said extension piece, said circumferential edge being provided with elastic binding means whereby said body may be conformed to the shape of and held in position below the surface of said lid, said extension piece being made of a substantially resilient material and adapted to extend over a part of the underface of said lid around said end thereof for connection with said circumferential edge by means of said fastening means.

2,611,137
BED SPRING
Ralph Riell, Brooklyn, N. Y.
Application December 6, 1949, Serial No. 131,336
3 Claims. (Cl. 5—192)



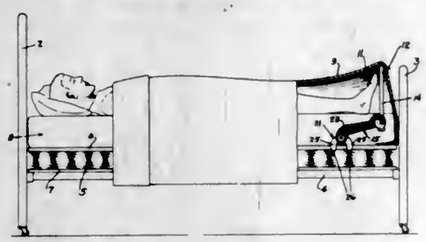
3. A bed spring comprising a rigid frame, two side strengthening parts, each of said side strengthening parts comprising a rigid member having a long portion extending substantially from one end of the spring frame to the other and terminating at each end in a short horizontal portion at right angles to said long portion, a plurality of groups of springs securing each end of said side strengthening parts to the rigid frame, and a bed spring cable structure interposed between said two side strengthening parts and secured to the rigid frame, said bed spring including a strip connecting the ends of the short portions of each side part, and a second bed spring cable structure secured to the side strengthening parts between the long portion of the rigid member and the strip, said second bed spring cable structure being linked with the first mentioned bed spring cable structure.

2,611,138
MATTRESS AND UPHOLSTERY SPRING STRUCTURE
James Piliero, Astoria, N. Y., assignor to The Englander Company, Inc., Chicago, Ill., a corporation of Delaware
Application February 3, 1950, Serial No. 142,279
2 Claims. (Cl. 5—247)



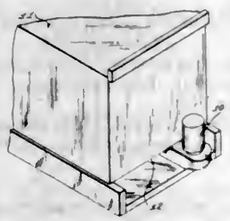
2. In a spring structure, a rigid frame including a rigid border member extending peripherally about the frame and cross-bars connected at their ends to the opposite sides of said border member, a flexible frame consisting of longitudinally and transversely extending crossed flexible metallic strips, means connecting said strips for relative sliding movement, semi-circular spring members disposed between said rigid and flexible frames, said cross-bars and said transversely extending flexible strips having slots opening therethrough and said spring members having U-shaped bends arranged to protrude through said slots, wire members extending longitudinally of said cross-bars and of said transversely extending strips and through the loops of the protruding bends for securing the springs to said frames, and a wire member extending peripherally about said flexible frame and secured to the ends of said longitudinally and transversely extending strips.

2,611,139
BEDCLOTHES LIFTING AND SUPPORTING DEVICE
Rudolph T. Ecklund, Aitkin, Minn.
Application April 5, 1948, Serial No. 18,967
3 Claims. (Cl. 5—319)



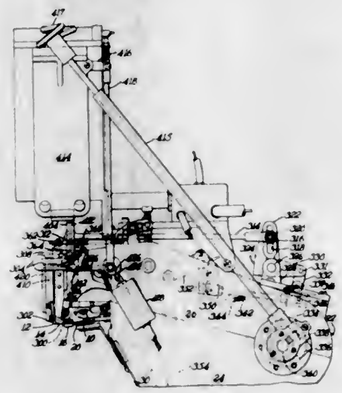
3. In a device of the class described, a pair of supporting arms, clamping elements, for mounting said arms on the side rails of a bedspring, an arch-shaped member removably and pivotally supported on the outer ends of said arms and adapted to be engaged with the top bedclothes of a bed and support it in elevated position above the usual mattress of the bed to provide freedom of movement for a portion of an individual's body reposing on the mattress, and means carried by said clamping elements adapted to be inserted between the mattress and the bedspring to thereby prevent relative rotation of the clamping elements upon the side rails of the bedspring.

2,611,140
BEE FEEDER
James W. Goble, Burbank, Calif.
Application May 5, 1950, Serial No. 160,133
2 Claims. (Cl. 6—5)



1. In an entrance bee feeder, a base having one end adapted to extend into a beehive entrance, a wall extending about the marginal edge of said base inwardly from the other end thereof and terminating adjacent to and spaced from said one end of said base and secured to said base, opposed flanges extending inwardly from said one end of said base and terminating at and connected integrally to said wall, said flanges being tapered for partial insertion thereof in the beehive entrance to thereby dispose the ends of the flanges connected to said wall exteriorly of the beehive entrance, the ends of the flanges connected to said wall being aligned transversely of the base and being of a greater width than said wall, thus to form end faces upon said connected flange ends, the end faces having sockets formed therein, a closure resting upon said wall, and lugs carried at opposite sides of the closure and removably and pivotally engageable in the sockets for mounting the closure at a location in which, in the inserted position of the flanges, the closure is both swingable into and out of bridging relation with said wall, and is bodily removable from the wall.

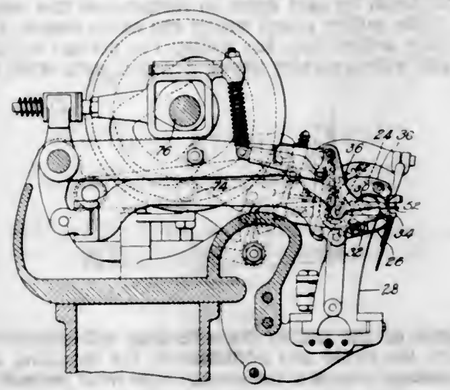
2,611,141
LASTING MACHINE
Joseph Fossa, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 11, 1950, Serial No. 149,188
8 Claims. (Cl. 12—1)



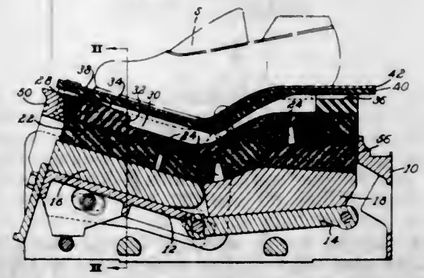
7. A machine for lasting with adhesive having, in combination, means for tensioning the stock to be lasted, progressively, in different locations along the marginal edge of the bottom of a shoe, means, spaced from the tensioning means in a direction lengthwise of the shoe, for pressing the lasting margin of the tensioned stock against the bottom of the shoe and for feeding the shoe, a nozzle for applying adhesive to the bottom of the shoe in the form of a thread-like portion, means for reciprocating said nozzle in directions extending widthwise of the shoe to cause said thread-like portion of adhesive to be applied to the shoe bottom directly beneath that part of the lasting margin of stock which extends, lengthwise of the shoe, between the tensioning means and the pressing means and along a curved line, extending back and forth from a location adjacent to the edge of the shoe bottom, as the shoe is fed along during the lasting operation, and means for varying the amplitude of the reciprocating movements of said nozzle.

2,611,142
SHOE SEWING MACHINE
Cyril Harry James and Fred Ricks, Leicester, England, assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 31, 1950, Serial No. 193,144
In Great Britain January 4, 1950
2 Claims. (Cl. 12—1)

2. A machine for sewing an upper to a sock lining attached intermediate its marginal portions to a platform sole, said machine having stitch forming devices and work clamping members comprising a work support, in combination with a presser foot and knife holder block, a knife removably clamped on the block for severing the unattached marginal portion of the platform sole during operation of the stitch forming devices, a fin on the block engaged by the knife at one end of its cutting edge to clamp the sock lining against the work support and to protect the cutting edge of the knife from contact with the sock lining, and a spring pressed collar movable along the knife to guide the platform sole into a substantially perpendicular relationship to the knife.



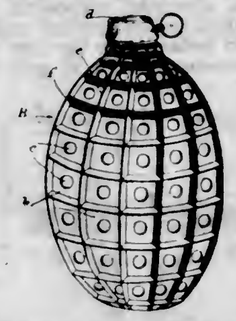
2,611,143
APPARATUS FOR APPLYING PRESSURE TO SHOE BOTTOMS
Helge Gulbrandsen, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 8, 1948, Serial No. 53,467
8 Claims. (Cl. 12—38)



3. Apparatus for applying pressure to shoe bottoms comprising a box, a rubber block in said box having in its upper face a sole shaped recess larger than the shank and foreparts of the largest sole to be operated upon, and a rubber pad member substantially filling said recess and providing a pressure-applying surface effective only along the marginal portions of the shoe bottom.

2,611,144
PERFORATED SOAP-ENCLOSING COVER
Georges Lambert, Lyons, France
Application February 18, 1948, Serial No. 9,090
In France December 16, 1938
Section 1, Public Law 690, August 8, 1946
Patent expires December 16, 1958
2 Claims. (Cl. 15—122)

1. A perforated soap-enclosing cover comprising a bag of elastic material provided with an opening and with a plurality of regularly distributed perforations arranged in longitudinal and transversal rows, said bag being adapted to enclose and hold firmly a soap cake introduced through the opening into it, and two systems of ribs of elastic material crossing one another, formed on the outside of and integral with the bag and defining through their outer edges a continuous checker-work of uninterrupted narrow surfaces, the ribs of both systems extending between the longitudinal and transversal rows of perforations respectively and forming with one another a plurality of four-sided recesses registering with the corresponding perforations in the bag.



2,611,145
OIL GAUGE WIPING DEVICE
Hjalmer C. Linstrom, Milford, Iowa
Application December 12, 1949, Serial No. 132,507
2 Claims. (Cl. 15—210)

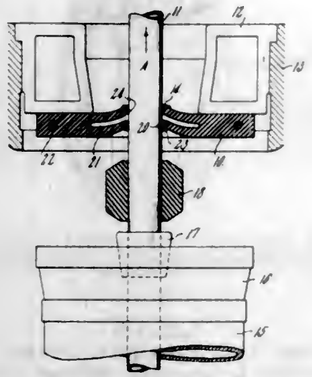


1. An oil gauge wiping device comprising a base member including a substantially U-shaped member attached thereto adapted to receive an operator's belt for supporting said base member, a further member, a wiping pad secured to said further member, said base member having a peripheral flange, said further member having a further peripheral flange received within said base member flange, detachable connecting means between said base member and said further member including a snap member portion secured to said base member, a further snap member portion for engaging said snap member portion attached to said further member, whereby said further member can be released to provide means for wiping a gauge rod on said wiping pad, said base member having openings whereby said base member can be secured by pins to wearing apparel, said further member having outer flanges whereby an operator can remove said further member by grasping said outer flanges, said further member having a boss, said wiping pad having an opening snugly engaging said boss.

2,611,146
WIPER FOR DRILL PIPES HAVING A LUBRICANT CAVITY
John L. Buckley, Tenafly, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 20, 1947, Serial No. 792,902
2 Claims. (Cl. 15—210)

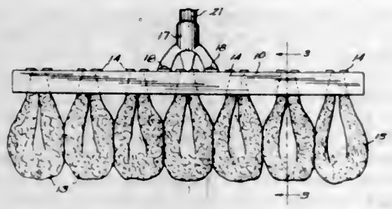
1. A drill pipe wiper comprising a unitary soft elastic body having a passage therethrough adapted to receive a drill pipe, said passage terminating at each end thereof in a relatively flexi-

ble elastic lip adapted to be stretched over enlargements on the pipe and fit snugly around the pipe, said lips diverging outwardly from each other in their undeflected position and remaining separated when deflected by the pipe to form the walls of an enlarged portion of said passage be-



tween said lips during the movement of the drill pipe in either direction through said passage, and said enlarged portion of said passage being adapted to retain lubricating fluid therein which may be removed from the moving pipe and be entrapped in said enlarged portion.

2,611,147
RETAINING DEVICE FOR SPONGES
Nicholas Elia Kampouris, Gary, Ind.
Application September 24, 1947, Serial No. 775,913
1 Claim. (Cl. 15—244)



A multiple sponge device comprising a retaining base with tapered holes extending upwardly therethrough, said holes having a larger diameter at the bottom than at the top thereof, inwardly rolled sponge portions, a bendable clip strip fitted around one end of each of said sponge portions and inserted into the tapered holes, each clip having barbs struck inwardly and projected upwardly from the clip to enter the sponge portion to prevent the removal of the sponge portion from the clip, each clip being of tapered conical formation to prevent upward movement of the clip in the hole, projections extending from the clip at the upper edge thereof and said projections folded downwardly onto the top face of the retaining base to prevent the clip and sponge portion from dropping out of said holes.

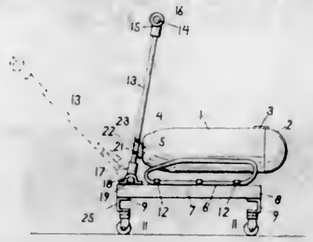
2,611,148
WINDSHIELD CLEANER
Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application April 20, 1948, Serial No. 22,142
6 Claims. (Cl. 15—253)

1. A windshield cleaner comprising a drive member, a shaft member, a wiper carried by the shaft, a transmission operatively connecting the two members and including a cable pulled back and forth by said drive to reciprocate the wiper, a guide pulley about which the cable passes, and means supporting the pulley for pivotal adjustment substantially about a radial axis with re-



spect to the pulley for effecting self-alignment with the cable and additionally for swinging adjustment about a transverse axis with respect to the cable movement for responding to an abnormal strain imposed upon the cable by the wiper.

2,611,149
VACUUM CLEANER CARRIER
Herbert Levy, Bronx, N. Y.
Application March 22, 1950, Serial No. 151,167
3 Claims. (Cl. 15—327)

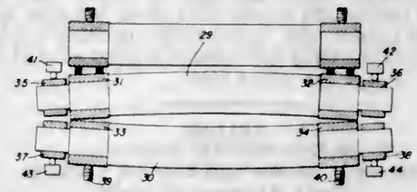


1. A carrier for a vacuum cleaner with an openable end, said carrier comprising a frame, wheels supporting said frame rollingly in a horizontal position, means for affixing said vacuum cleaner on top of said frame in a horizontal position where said openable end is positioned at the front of said frame, a driving shaft hinged to said frame near the rear end thereof, said frame having a rear side positioned farther backward than the rear end of said vacuum cleaner and extending in one vertical plane whereby said frame with said vacuum cleaner can be turned into a vertical position where said frame rests on said rear side while said shaft contacts the floor, and a member hingedly connected to said shaft and, in said latter position of shaft and frame, supportingly contacting the lower side of said vacuum cleaner.

2,611,150
APPARATUS AND METHOD FOR PERFORMING SHEETING OR COATING OPERATIONS ON OR WITH PLASTIC MATERIAL
Albert Goulding, Jr., Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application April 26, 1949, Serial No. 89,618
12 Claims. (Cl. 18—2)

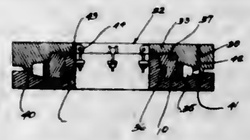
2. In combination, a pair of cooperating rolls adapted to finish form a sheet between the rolls, journals on the ends of the rolls, a pair of bearings on each journal, means holding one of each

pair of bearings stationary, adjustable pressure means engaging with the other one of each pair



of bearings to throw a deflection of adjustable amount into the longitudinal axes of the rolls.

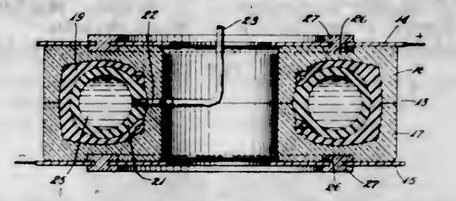
2,611,151
APPARATUS FOR MAKING TRANSMISSION BELTS
Raymond S. Carter, deceased, late of Cuyahoga Falls, Ohio, by Mary H. Carter, executrix, Cuyahoga Falls, Ohio, and Marvin L. Dorf, Lincoln, Nebr., assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Original application January 24, 1944, Serial No. 519,448. Divided and this application November 12, 1948, Serial No. 59,442
4 Claims. (Cl. 18—36)



1. A mold for forming and vulcanizing endless V-belts and the like comprising a bottom section having an upwardly extending portion with a frusto-conical surface; a segmental ring having a frusto-conical inner surface cooperating with the frusto-conical surface on said bottom section, the upper surface of said bottom section and said segmental ring being in horizontal alignment, the outer circumference of said segmental ring being provided with a vertical portion and tapered portion, said vertical portion forming a support for a portion of a belt; an upper section of said mold having an inner tapered surface embracing the outer tapered portion of said segmental ring in clamping relationship therewith, thereby forming in cooperation with said lower section and segmental ring, a cavity in which a belt may be formed; said mold having an orifice through which a vulcanizable material is injected under pressure into said cavity and an overflow vent diametrically opposite said orifice; and locking means to hold the mold members in sealing relationship.

2,611,152
VULCANIZATION OF TIRES WITH HIGH-FREQUENCY FIELDS AND APPARATUS THEREFOR
Anton G. Seifried, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application December 1, 1951, Serial No. 259,397
9 Claims. (Cl. 18—38)

1. Apparatus for vulcanizing hollow rubber articles comprising a pair of opposed, spaced electrodes, means for establishing a high-frequency alternating electrostatic field between said electrodes, mold means of a dielectric material arranged between said electrodes, said mold means having a cavity to accommodate an unvulcanized hollow rubber article and an expansible bag therein containing a fluid dielectric material, said fluid dielectric material having a

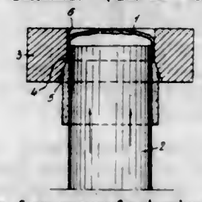


power factor substantially equal to that of the unvulcanized rubber article, and means for urging said electrodes one toward the other to secure said mold means therebetween.

2,611,153
TEMPORARY PROTECTIVE COATING AND METHOD OF VULCANIZING
Stephen T. Semegen, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 29, 1948, Serial No. 5,179
13 Claims. (Cl. 18—53)

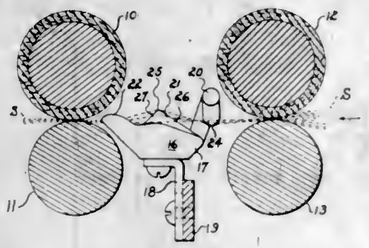
2. The method of temporarily protecting the surface of a vulcanizable rubber article during vulcanization thereof which comprises applying directly to the surface to be protected a thin coating of a liquid composition comprising 100 parts by weight of a plastic polymer of an alkyl ester of acrylic acid, from 15 to 200 parts of polyvinyl chloride, a volatile liquid vehicle, and a curing agent for said ester polymer, removing said vehicle to provide a solid coating on said surface, and heating said article and said coating to vulcanize said article and to cure the composition of said coating to form a temporary protective coating on said surface readily removable therefrom by peeling.

2,611,154
METHOD OF PRESSING BLANKS OF MOLDED PULP
Eugene Marcel Chevrier, Montrouge, France
Application September 13, 1949, Serial No. 115,539
In France September 17, 1948
3 Claims. (Cl. 18—56)



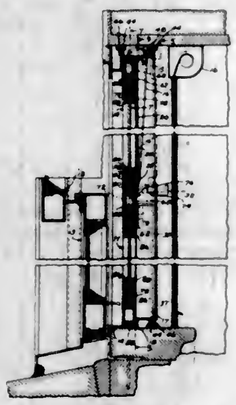
1. A process for manufacturing molded paper articles having substantially cylindrical lateral walls, comprising, forming a cylindrical paper blank, said blank having approximately the final form of the molded article, mounting said blank upon a cylindrical mandrel whose cross-section is equal to the interior cross-section of the molded article, and forcing said blank mounted upon said mandrel through a die having a cylindrical portion whose cross-section is equal to the exterior cross-section of said article and which has a flared entrance whose inclination is substantially 28 to 30° relative to the axis, said entrance surface of said die being connected with the cylindrical portion thereof by a clear cut edge.

2,611,155
DEVICE FOR PARALLELIZING FIBERS IN SLIVER OR ROVING DURING DRAFTING
Benjamin B. Cravens, Pawtucket, R. I., assignor, by mesne assignments, to Whitin Machine Works, a corporation of Massachusetts
Application September 8, 1949, Serial No. 114,562
7 Claims. (Cl. 19—130)



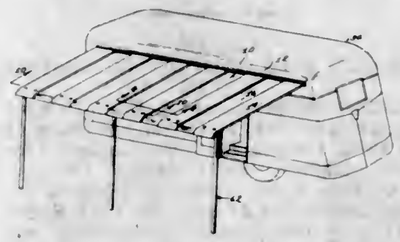
1. A condenser device for sliver or roving comprising a support and two oppositely convex curved bending members arranged transversely of the sliver or roving and bending it in opposite transverse directions as the sliver or roving passes under and over the curved surfaces of said bending members, and a notched compacting member forming the exit end of the condenser device for condensing the sliver or roving following its passage across said curved bending members.

2,611,156
STORM WINDOW
Louis Toth, Flushing, N. Y.
Application January 22, 1946, Serial No. 642,640
6 Claims. (Cl. 20—55)



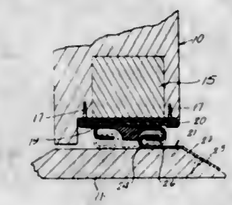
1. A storm window comprising a frame including a pair of jambs having jamb channels, upper and lower storm sashes slidably mounted in said jamb channels, said jamb channels being wide enough to hold said upper and lower sashes when moved into side by side relationship, the lower one of said sashes being movable longitudinally and laterally in said jamb channels into the same plane as the other sash, parting strips partly dividing said jamb channels into two parallel vertical portions, said parting strips extending downwardly in the upper part of the frame and terminating near the lower edge of the lower rail of the upper sash when the upper sash is moved to the top of the frame, the jambs having sockets therein in line with the upper sash and adjacent to the lower edge of the lower rail of said upper sash when the sash is at the top of the frame, the top rail of said upper sash carrying retractable bolts adapted to be projected into said sockets when the sash is moved into the lower part of the frame the sockets being at least as far above the lower cross member of the frame as the bolts are above the lower edge of the lower rail of the upper sash.

2,611,157
RIGID METAL AWNING
Marvin D. Moore and Frances E. Moore, North Sacramento, Calif.
Application September 29, 1950, Serial No. 187,624
2 Claims. (Cl. 20—57.5)



1. A rigid awning comprising an upper and lower set of transversely spaced channel-shaped panels, said panels of the upper set being inverted and overlying the panels of the lower set with their depending flanges engaging the upstanding flanges of the panels of the lower set, interengaging locking means carried by the engaging flanges to secure the panels together in a rigid structure, a flashing adapted to be mounted on a vertical support for retaining the panels projected laterally from the support, said flashing comprising a substantially annular member having an axial passage formed therein and having a transverse slot communicating with said passage, and bead means formed on the inner ends of the panels slidably received in said passage with the inner ends of the panels projected transversely through the slot, whereby said panels may be assembled with said flashing by sliding said bead means into said axial passage from one end thereof.

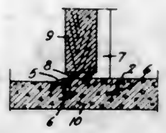
2,611,158
MAGNETIC WEATHERSTRIP ASSEMBLY FOR THRESHOLDS
Eugene J. Gregory, Seattle, Wash.
Application May 18, 1951, Serial No. 226,972
3 Claims. (Cl. 20—64)



1. The combination with a threshold and an upstanding door movable into and out of position over said threshold, the bottom of said door having a portion cut away inwardly from the inner face of the door to a point short of the outer face of the door, of a magnetic weatherstrip assembly operatively connected to said threshold and door, said assembly comprising a first weatherstrip element arranged longitudinally of said threshold and having one side overlying and

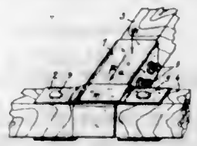
fixed to one side of said threshold, a second metallic weatherstrip element arranged longitudinally of said threshold inwardly of said first element and pivotally connected along one side to the other side of said first element for vertical upward and downward movement, a strip of yieldable material covering the cut away portion of the bottom of said door, and magnetic means in said door above said strip operable upon movement of said door into its position over said threshold to cause vertical upward movement of said second weatherstrip element into engagement with said strip.

2,611,159
DOOR ASSEMBLY
Martin H. Guenther, Atlanta, Ga., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application March 28, 1947, Serial No. 737,970
2 Claims. (Cl. 20—64)



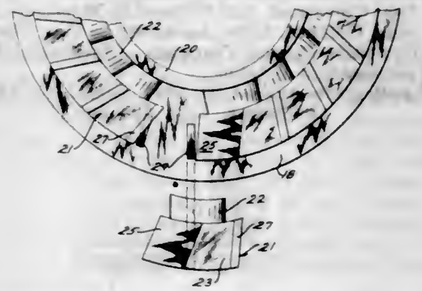
1. In a building structure having insulated walls and an insulated floor, the combination of a door assembly in one of said walls comprising a door frame, a metal frame and sill support connected to the lower extremities of the upright members of the door frame below the floor level, a metal door sill disposed between the upright members of the door frame and securely attached to the metal support and terminating in the floor level, said sill having openings extending therethrough, a door hinged to said frame for movement about a vertical axis, gasketing means disposed on said door and engageable with said sill when said door is in closed position, and a cementitious flooring material encasing the metal frame and sill support and filling the openings in said perforated sill, substantially flush with the upper surface thereof and extending beyond the sill in the front and rear thereof.

2,611,160
DEVICE FOR ASSEMBLING STRUCTURAL ELEMENTS
Antonin Gustave Hanesse, Saint-Raphael, France
Application June 22, 1948, Serial No. 34,496
In France June 23, 1947
3 Claims. (Cl. 20—92)



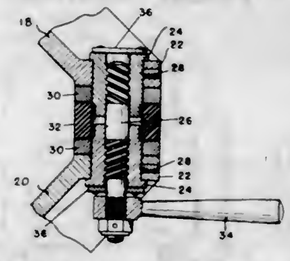
3. A skeleton structure comprising in combination a continuous bar having a generally rectangular cross-section, a cross-bar assembled at an angle with said continuous bar at a point intermediate the ends thereof, said cross bar ending in a single hook member having a U-shaped hook fitting on said continuous bar and engaging three sides thereof and having means for rigidly connecting said member to said cross-bar; and a double hook member comprising two parallel hooks having aligned U-shaped notches fitting on said continuous bar on both sides of said single hook member and engaging three sides thereof and a bridge portion rigidly connecting said parallel hooks substantially in the plane containing two wings of the U-shaped notches thereof, said double hook member straddling over said single hook member in such a position that said bridge portion engages the bottom of said U-shaped single hook member, and that said hook members build up a tubular guide engaging all faces of said continuous bar.

2,611,161
PATTERN FIXTURE FOR MAKING MOLDS FOR TURBINES
Carl H. Paul, Peoria Heights, and Bernard F. Vogelaar, East Peoria, Ill., assignors to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application March 17, 1949, Serial No. 81,868
2 Claims. (Cl. 22—53)



1. A pattern fixture for producing a mold of a plurality of radially arranged blade like members of twisted formation which comprises, a base member, a plurality of blocks arranged to be supported as an annulus on said base and each supporting an inwardly projecting blade pattern, and separate wedge-shaped guide means arranged between the base and each block to compel the blocks upon being withdrawn in a generally radial direction from the annulus to follow a path which twists in conformity with the twist of the blade.

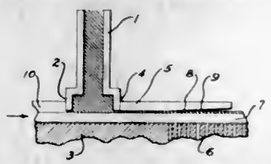
2,611,162
FOUNDRY FLASK
Walter Ernst, Dayton, and Otto J. Fleck, Fremont, Ohio, assignors to The Fremont Flask Company, Fremont, Ohio, a corporation of Ohio
Application May 27, 1950, Serial No. 164,696
3 Claims. (Cl. 22—106)



2. A molding flask of the character described comprising a generally rectangular-shaped frame, said frame including a plurality of parts which are separable at their diagonally opposite corners, said parts having parallel opposed flanges

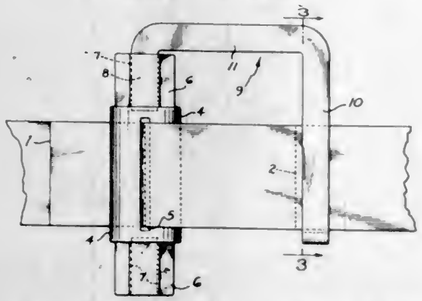
at their corners, a resilient unit disposed between said flanges at each of said corners, said resilient unit comprising spaced metal plates and an intermediate resilient block, said block being coextensive with the inner faces of said plates, and said plates being coextensive with said opposed flanges, said resilient block being bonded at its outer surfaces to said opposed plates, bushing members carried by said flanges and movable inwardly in opposed relationship to each other, a rod extending between and closely fitting said bushing members, said rod and bushing members being positioned intermediate the lateral exposed surfaces of said resilient block and whereby upon rotation of the rod in one direction said plates are drawn toward each other and upon rotation of the rod in the opposite direction, said plates are moved away from each other.

2,611,163
METHOD OF MAKING BEARINGS
Ralph A. Schaefer, Cleveland, Joseph F. Cerness, East Cleveland, and Wilbert H. Morrison, Cleveland Heights, Ohio, assignors to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a corporation of Ohio
Application August 20, 1947, Serial No. 769,616
10 Claims. (Cl. 22—200.1)



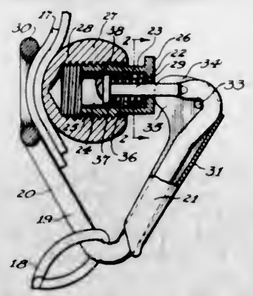
1. In a method of making bimetallic material, the steps of which consist of coating steel with an integrally united layer of a metal of the group consisting of nickel and cobalt, casting thereon a relatively thick coating of molten aluminum alloy of the order of .020'' thick against the coated surface of said material and quenching the backing material directly opposite the point at which the aluminum is molten to quench at a rate of at least 200° F. per second to bond the aluminum firmly to the coated steel and to preserve the ductile, coated layer so that the bimetallic material may be subject to forming operations.

2,611,164
TENSIONING AND JOINING DEVICE FOR STRAP ENDS
William A. Meighan and Tirey L. Hume, Portland, Oreg.
Application June 6, 1950, Serial No. 166,494
2 Claims. (Cl. 24—68)



1. A device for locking the ends of a flexible strap in overlying relationship and applying a tension thereto, comprising an elongated cylindrical mandrel having a slotted keyway piercing the medial portion thereof for threading the ends of a strap therethrough, a non-circular tool engaging periphery on each end of said mandrel for receiving a pair of tensioning tools, and a U-shaped keeper including a short leg and a long leg joined by a connecting section, the terminal end of said short leg defining a non-circular male portion operatively engaged in a complementary non-circular female portion in the end of said mandrel concentric with one of said tool engaging peripheries, said long leg extending laterally across one face of one of said strap ends.

2,611,165
BLANKET HOLDER
John Straka, Chicago, Ill.
Application November 17, 1949, Serial No. 127,966
1 Claim. (Cl. 24—72.5)



In a clamping device for sheet material, a stiff wire yoke comprising a pair of integral legs disposed angularly with respect to each other, one leg having a wire ring at its outer end, the other leg having at its outer end an extension projecting toward and co-axial with and spaced from said ring, a cup-like member telescoped about said extension, with the rim of said member between said ring and the base of said member, a spring confined between said base and the inner end of said extension and biasing said member away from said ring, a head threaded to and about said member and having a rounded end between said extension and said ring, and releasable means engageable with said base for moving said member toward said ring against the resistance of said spring to bring said rounded end into proximity to said ring to thereby pinch sheet material peripherally in the annular space between said rounded end and said ring, said means being cooperative with said base to releasably retain said rounded end in pinching position.

2,611,166
DEFORMABLE SHEET METAL FASTENING CLIP
William R. Wiley, Phoenix, Ariz.
Application March 16, 1948, Serial No. 15,105
1 Claim. (Cl. 24—73)



A headed fastener comprising a head structure formed of an elongated channel having side

and bottom webs, tongue-like legs formed out of the bottom web approximately midway of the length of said structure but longitudinally spaced from one another, said side webs being partly severed upon lines in substantial transverse alignment with a part of the bottom web between the points from which said legs project.

2,611,167
DETACHABLE BUTTON FOR GARMENTS
Dayton A. Seiler, Elizabethton, Tenn., assignor to Mollie H. Seiler, Elizabethton, Tenn.
Application September 27, 1950, Serial No. 187,071
7 Claims. (Cl. 24—98)



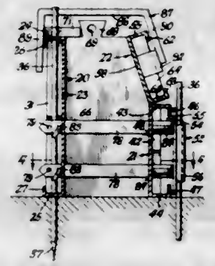
1. An attachable and detachable button for garments comprising a rear plate for a button, a U-shaped wire member extending in a plane normal to the plane of the said plate, said U-shaped wire member including a pair of spaced arms interconnected by an intermediate portion with one of said arms fastened to said plate and the other of said arms extending in spaced relation thereto, a movable member comprising a pair of arms extending at an angle to each other and interconnected by an intermediate portion, means pivotally connecting the said intermediate portion of said movable member with the intermediate portion of said U-shaped member, said movable member having one of its arms movable in a plane coplanar with the plane of one of the arms of said U-shaped member and having the other of the movable arms biased in a direction toward said plate and movable thereover and means carried by said plate for effecting a latching operation between said movable member and said plate for retaining the coacting arms of said U-shaped member and said movable member in a position for detachably connecting the button with the fabric of a garment.

2,611,168
PLASTIC AND METAL HEADED PIN
George S. Light, Winsted, Conn.
Application April 30, 1949, Serial No. 90,695
7 Claims. (Cl. 24—150)



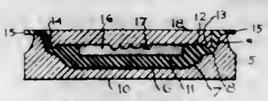
5. A general purpose pin having a substantially flat metal head integral with and positioned at right angles to the shank of the pin and of transverse operational dimension, and a thermoset plastic portion having parts positioned on opposite sides of the flat metal portion, the major part of the plastic being on the side of the metal head portion opposite the shank, said plastic parts being integrally united by a thin uniform film of plastic over the periphery of the metal head to enclose the latter and provide continuity of the surface of the plastic portion without substantially increasing the transverse operational dimension of the head, said plastic portion imparting a manipulative longitudinal dimension to the head.

2,611,169
CURB FORM
Frank Torrelli, Buffalo, N. Y.
Application August 14, 1950, Serial No. 179,147
5 Claims. (Cl. 25—118)



5. A stake holder bracket adapted to be used with a channelled concrete form member, said bracket comprising a web, a vertical flange extending rearwardly on each side of said web, and an elongated, vertically disposed rigid loop projecting outwardly from the front of said web, each of said flanges being provided with a transverse notch in the top and in the bottom thereof, said notches being located in the same plane and being adapted for engagement with said concrete form member to permit slidable mounting of said bracket thereon.

2,611,170
MOLD FOR FORMING PLAQUES
Irene H. Theis, Denver, Colo.
Application November 13, 1946, Serial No. 709,534
1 Claim. (Cl. 25—118)

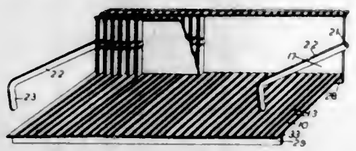


A mold for forming plaques comprising, a base of rigid material having a relatively shallow depression with a surrounding wall in its top surface, a mold member of resilient flexible material having one side formed to fit the entire depression in the base, the other side having a central depression in which is disposed a correspondingly shaped piece of molding clay having an impression of an infant's hand or foot in its upper surface, the flexible mold member having an annular area surrounding the central depression and bounded by a wall, for the reception of a hydrosetting cement.

2,611,171
MOLD FOR MOLDING CONCRETE TIES
John M. Wilson, Glasgow, Scotland
Application February 27, 1950, Serial No. 146,425
In Great Britain February 26, 1949
3 Claims. (Cl. 25—121)

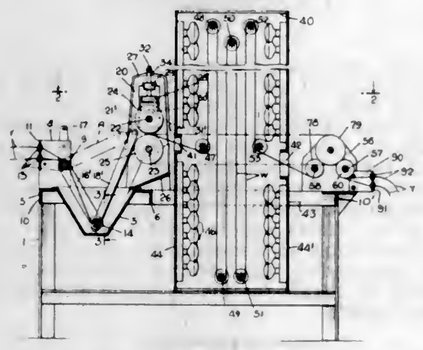
1. A composite multiple mould for moulding concrete ties comprising a bottom having a plurality of spaced, parallel, rearwardly-extending grooves therein, a longitudinal rear plate disposed substantially at right angles to said bottom plate and fixed relative thereto, a flange element pro-

jecting inwardly from the upper edge of said rear plate and provided with a series of recesses which are spaced correspondingly to and are in vertical alignment with said grooves, a first row of transverse dividing plates each of which is positioned with its lower edge engaging in one of said grooves and its rear edge engaging in the corresponding recess of the flange element, a plurality of spaced longitudinal row dividing plates disposed substantially at right angles to said bottom and parallel to said rear plate, each of said row dividing plates being bent over adjacent its upper edge in the direction away from the rear plate, and having a series of recesses in said bent over part



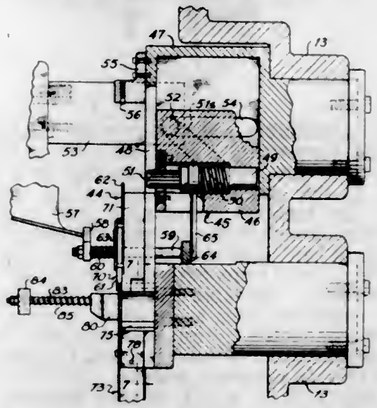
which are spaced correspondingly to and are in vertical alignment with said grooves, a plurality of successive rows of transverse dividing plates each disposed between adjacent row dividing plates with the lower edge of each plate of each row engaging in one of said grooves and the rear edge thereof engaging in the corresponding recess of a longitudinal row dividing plate, a longitudinal front plate disposed substantially at right angles to said bottom plate and facing said rear plate, and means releasably clamping said front and rear plates together to lock the transverse dividing plates and row dividing plates in the assembled position.

2,611,172
APPARATUS FOR TREATING YARN
Edgar Dare Bolinger and Robert G. Berner, Stamford, Conn., assignors to Deering Milliken Research Trust, Greenwich, Conn., a non-profit trust of Maine
Application June 30, 1949, Serial No. 102,364
7 Claims. (Cl. 28—28)



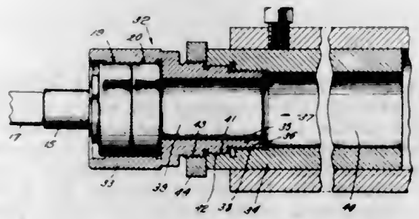
1. An apparatus for treating yarn comprising, in combination, means for assembling a plurality of ends of yarn in sheet form, means for supplying liquid treating material to the thus assembled ends of yarn, yarn guide means associated with said last mentioned means, a housing for passage therethrough of the treated yarn ends, locking means associated with said housing for holding said guide means in yarn engaging position, a pair of squeeze rollers disposed in said housing and engageable by the yarn ends for removing excess liquid material from said assembled treated ends, drying means for drying said assembled treated yarn ends, drawing means for the yarn ends comprising a pair of spaced rolls and an idler roll supported by, and in frictional engagement with both spaced rolls, driving means for rotating one of said pair of spaced rolls, gear means coupling said pair of spaced rolls together for driving the other of said pair of spaced rolls, means for separating said sheet of dried treated yarn ends into individual ends, and means associated with said drawing means for driving the said squeeze rollers.

2,611,173
MACHINE TOOL
Edward Schultz, Jr., Chicago, Ill.
Application December 11, 1947, Serial No. 791,024
23 Claims. (Cl. 29—37)



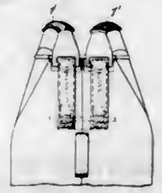
1. Mechanism for transferring piece-parts from a first-stage machining position to a second-stage machining position, comprising a reciprocable slide, a work mount carried by said slide and movable therewith between a work-receiving position and a work-discharge position, said work mount being reciprocable in a path perpendicular to that of the slide and movable outwardly with respect to the slide to engage a piece-part at said receiving position and carry the same to said discharge position and further movable inwardly into the slide to disengage the piece-part at said discharge position.

2,611,174
ROTATABLE STOP
George H. Cote, Bridgeport, Conn.
Application April 2, 1946, Serial No. 658,951
2 Claims. (Cl. 29—58)



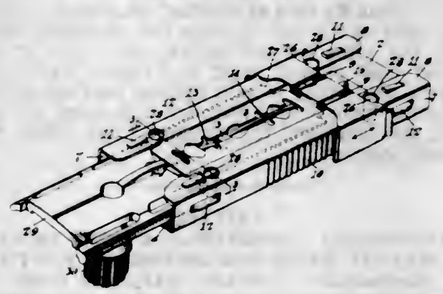
1. An adjustable work stop for a screw machine, lathe or the like, comprising a shank to be secured to the machine, said shank having a bore and having screw threads in the bore, a portion of the walls of the bore spaced from said screw threads comprising a precisely finished longitudinally extending cylindrical supporting surface; a body carried by the shank, having means for engaging and positioning work handled by the machine, the said body having a threaded portion extending into the bore of the shank and engaging the threads thereof to enable precise advancing and retracting movement of the body with respect to the shank, and having an elongated precisely finished cylindrical surface engaging the supporting surface of said shank in a close running fit to hold the latter and the body in alignment in various adjusted positions thereof, said cylindrical surface being of larger internal diameter than the external diameter of said supporting surface at all times; threads on said body, located exteriorly of the shank and on the opposite side of said surface from the first-mentioned threads; and a nut carried by the exterior threads of the body, for engaging the shank and locking the latter and body together in relative adjusted positions.

2,611,175
RAZOR HAVING SHEARHEADS WITH ONE END CLOSER TO EACH OTHER THAN THE OTHER END
Victor Kobler and Werner Kobler, Zurich, Switzerland
Application March 27, 1950, Serial No. 152,046
In Switzerland January 18, 1950
2 Claims. (Cl. 30—34)



1. In a dry shaver, a handle, a plurality of elongated shearheads mounted on said handle in proximity to each other, said heads having their longitudinal axes arranged at angles with respect to each other and being farther apart at one end than at the other.

2,611,176
BLADE MAGAZINE FOR SAFETY RAZORS
Nicholas Testi, Boston, Mass., assignor to The Gillette Company, a corporation of Delaware
Application March 28, 1946, Serial No. 657,641
10 Claims. (Cl. 30—40)



2. In combination, a safety razor, and a blade-magazine engageable therewith for dispensing razor blades directly into said razor, said magazine including a casing adapted to contain a stack of razor blades and having a blade-exit passageway, razor-engaging means at an end of said casing operatively engageable with said safety razor and aligning said blade-exit passageway with said safety razor, said razor-engaging means including a resilient portion constructed and arranged to be deflected during the aforesaid engagement of the razor with the magazine, said resilient portion having associated therewith a stop portion for limiting the engagement of said razor with said magazine and movable from a position obstructing said blade-exit passageway to a position clear thereof, and blade-feeding means for sliding blades through said exit passageway into operative position in the aligned razor.

2,611,177
SHAVER-CLIPPER
John W. Halterman, Los Angeles, Calif.
Application March 1, 1948, Serial No. 12,360
4 Claims. (Cl. 30—43)



1. In an electric shaver, a flat elongated base, upstanding end lugs on the base, superimposed stationary and movable blades on the base, the stationary blade having end notches to fit the lugs laterally and whose inner ends are spaced apart substantially the same as the spacing between the adjacent ends of the lugs so as to prevent longitudinal and lateral displacement of said blade on the base and the movable blade having longitudinally elongated lug-receiving end notches whose width is substantially the same as that of the lugs but whose ends are closer to each other than the adjacent ends of the lugs whereby to allow of longitudinal movement of said movable blade while holding the same against transverse movement, and a retaining member removably mounted on the base behind the blades and including a lip overhanging the uppermost blade for substantially the full length thereof to prevent separation of the blades.

2,611,178
POCKET IMPLEMENT
Jack Van H. Whipple, New York, and John W. Topa, Jamaica, N. Y., assignors to Burdette E. Bostwick, South Orange, N. J.
Application March 3, 1947, Serial No. 731,938
3 Claims. (Cl. 30—162)

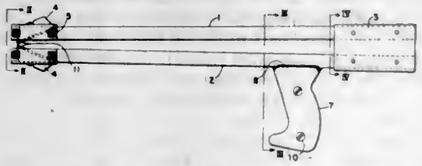
1. A pocket implement, comprising, in combination, a casing having a slot in one end thereof, an element slidably disposed within said casing, the length of said element being less than that of said casing, said element including a shank member and an implement member, the length of said shank member approximating that of said implement member and at all times being completely contained within said casing thereby to constitute a stable supporting connection between said casing and said implement

member when said implement is extended from said casing through said end slot, means associated with said shank member and with said casing for releasably locking said slidable element against movement relative to said casing,



and means operatively associated with said shank member and engageable with said casing when said element is slidably extended from said casing to wedge said shank member into substantially immovable relation with said casing laterally thereof.

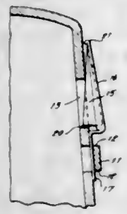
2,611,179
CUTTING APPARATUS FOR WALLBOARDS AND THE LIKE
Joseph F. Butler, Pittsburgh, Pa.
Application May 2, 1946, Serial No. 666,715
2 Claims. (Cl. 30—287)



1. A sheet or board scoring implement comprising spaced bars of substantial length and spaced to receive sheet or board to be scored therebetween, said bars being rigidly joined at one end and separated at the other end to receive the sheet or board, and having at said other end juxtaposed coplanar scoring members extending between and rigidly fixed to said bars with their scoring edges spaced from one another, and a handle secured to and projecting from one of said bars near the end remote from the scoring blades for pulling the scoring members across sheet or board to be scored.

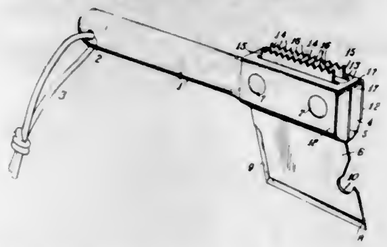
2,611,180
THREAD CUTTER DEVICE WITH FINGER SUPPORT
Josephine Di Bella Herz, Verona, N. J.
Application March 13, 1950, Serial No. 149,383
2 Claims. (Cl. 30—291)

1. The combination with a tubular member of such size as to be carried on the finger of a wearer and having an outwardly struck portion with openings above and below the portion and another opening above said openings, of thread cutting means comprising a guard provided with a shank at its lower end for insertion into the openings in the struck-out portion to be supported therein, an inwardly facing hook at the



upper end of the guard and two spaced walls, a removable knife positioned between said walls, a portion of the cutting edge being disposed in the upper opening.

2,611,181
FISH AX
George W. Coulter, Clarksville, Tenn., assignor to Mann, Smith & Coulter, Clarksville, Tenn., a partnership
Application May 18, 1951, Serial No. 227,073
1 Claim. (Cl. 30—308)

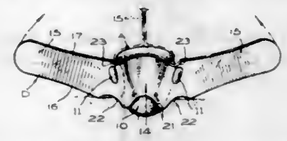


A fish axe comprising an elongated handle having a head at one end thereof, said head having a free end and a substantially rectangular configuration in transverse cross-section and having an elongated longitudinally extending slit formed therein extending inwardly from the free end thereof, an axe blade having a portion thereof disposed within said slit, said blade being elongated in a direction transversely of the longitudinal axis of said handle and projecting away from said slit, said blade having a sharpened edge facing the other end of said handle, said edge extending transversely of said longitudinal axis of said handle at an obtuse angle, said blade having a second sharpened edge adjacent to and intersecting said first sharpened edge at an obtuse angle, a substantially U-shaped cuff having its base extending transversely across the head on the side opposite the projecting blade and the arms thereof embracing a pair of opposed sides of said head, and means fixedly securing said blade to said handle, said means extending transversely through the arms of said cuff, the head and the portion of said blade disposed therein.

2,611,182
ANATOMICAL CONTACT-FORMING DENTAL MATRIX BAND FOR ANTERIOR TEETH
Benjamin F. Toffiemire, Lafayette, Calif.
Application December 27, 1949, Serial No. 135,047
5 Claims. (Cl. 32—63)

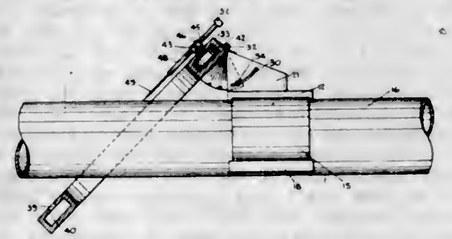
1. In a dental matrix band for anterior teeth: a looped strip of material adapted to encircle the axial contour of an anterior tooth; the strip having gingival-facing and incisal-facing edges;

the gingival-facing edge having a saddle-like notch therein adapted for snugly straddling the cingulum of the banded tooth, with the cingulum projecting into this notch, when lateral portions of the gingival-facing edge beyond the notch are disposed in registry with the gingival curvature of the tooth in the interproximal areas; the wall



defined by this notch being shaped and dimensioned to abut and coact with the cingulum to preclude rotation of the strip around the banded tooth when the looped strip is placed on the tooth; the strip further having laterally-disposed notches in its gingival-facing edge adapted for following the gingival curvature of the tooth in the interproximal areas.

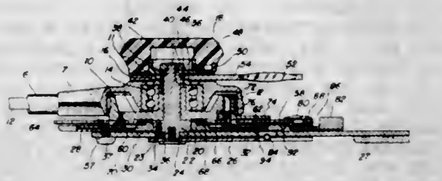
2,611,183
PIPE MARKING DEVICE
Harold P. Thrower, Odessa, Tex., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware
Application April 24, 1951, Serial No. 222,566
2 Claims. (Cl. 33—21)



1. A pipe-marking apparatus adapted to be removably secured on a pipe for tracing a line around the pipe at a predetermined angle, said apparatus comprising a base member adapted to be seated on said pipe, spring-loaded clamp means affixed to said base member for securing said base member to said pipe, a hollow hinged split ring member having an annular bore therein, said ring member being of a size sufficient to encircle said pipe, hinge means securing a portion of one side of said ring member to said base member in tiltable relationship therewith, said hollow ring member having a circular guide slot in a side wall thereof, said slot being in communication with the bore within said ring member, wheeled carriage means of a length less than the radius of said ring member carried within said ring member and movable therearound in the bore and guide slot thereof, marking means affixed to said carriage means and movable therewith, said marking means extending towards the center of said ring member to contact the pipe encircled thereby.

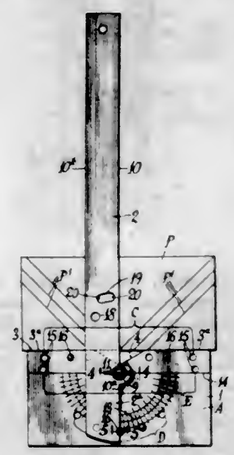
2,611,184
DRAFTING MACHINE
Allister L. Baker, Jersey City, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application February 6, 1948, Serial No. 6,789
19 Claims. (Cl. 33—79)

1. In a drafting machine for use on a drafting board, a drafting head comprising a member maintained in orientation on the drafting board, a protractor arm for carrying at least one straight edge rotatable with respect to said member maintained in orientation, an annular member also rotatable with respect to said member maintained in orientation, cooperating index mark and protractor scale means carried by said member maintained in orientation and said annular member, said annular member and said protractor arm being in constant frictional engagement with each other, resilient means held by said annular member and said protractor arm under a fixed predetermined unadjustable stress, said resilient



means applying constant pressure between said annular member and said protractor arm to produce constant frictional forces therebetween, said frictional forces being of sufficient magnitude so that said annular member will be carried by said protractor arm, means for clamping said annular member to said member maintained in orientation to permit rotation of the protractor arm relative to said annular member against the action of said constant frictional forces, and a clamp acting between said protractor arm and said member maintained in orientation to fix the protractor arm at any selected angle.

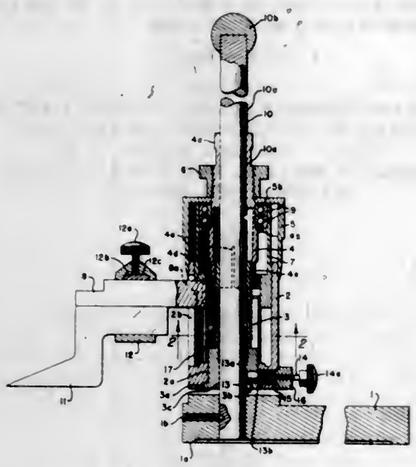
2,611,185
MECHANIC'S SHOP WORK LAYOUT TOOL OF THE HEAD AND PIVOTED BLADE TYPE
Julius C. Thursack, Buffalo, N. Y.
Application March 21, 1950, Serial No. 150,896
9 Claims. (Cl. 33—100)



1. In a mechanic's shop work lay-out tool of the type which comprises a head having opposite flat faces and a straightedge, a blade having a fiducial edge a pivot pin connecting the blade and the head, the blade being mounted on the pivot pin adjacent one of the flat faces of the head, being movable about the pivot pin relatively

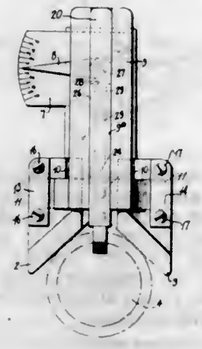
to the head in either direction to various operative positions within a range of 180° relatively to the straightedge and having its fiducial edge in radial alinement with the pivot pin, and a wing nut mounted on the pivot pin for clamping the blade to the head in any position to which the blade may be moved about the pivot pin as an axis: the improvement which consists, in combination, in a first series of openings in the head adjacent and, as a series, parallel to the straightedge, the openings being symmetrically arranged at opposite sides of the central point of the straightedge, a second series of openings in the head located, relatively to the straightedge, beyond the first series of openings, the openings of the second series being arranged along an arc of which the pivot pin is the radial center, and a plurality of pins having uniform diameter for location selectively in the openings of the first and second series and for selective cooperation with the blade or the workpiece, the pins being removable from said openings and each pin having a friction fit in any of said opening as a selected opening and for the purpose of cooperation with the blade or the work piece being manually displaceable to project from either flat face of the head with an end substantially flush with the opposite flat face of the head.

2,611,186
MICROMETER HEIGHTH GAUGE
Robert R. Noble, San Diego, Calif.
Application November 5, 1945, Serial No. 626,671
17 Claims. (Cl. 33—169)



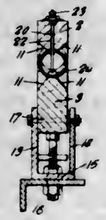
1. In a micrometer height gage of the class described, the combination of a base member, a vertically disposed graduated post having graduated notched portions therein, a pair of interengaging threaded sleeves surrounding and slidable along said graduated post, an outer casing connected to one of said threaded sleeves, a dial sleeve in connection with the other threaded sleeve and surrounding a portion of said outer casing and having graduation designations thereon, said dial sleeve and said casing cooperating to enclose said threaded sleeves, arm supporting means longitudinally fixed with respect to one of said threaded sleeves and rotatable relative to the other of said threaded sleeves, and an arm secured to said arm supporting means, said outer casing having a slot therein in which said arm is slidably positioned.

2,611,187
KEYWAY LOCATION GAUGE
Edward L. Keene, Houston, Tex., and Dan C. Griffin, Shreveport, La.
Application June 28, 1949, Serial No. 101,864
5 Claims. (Cl. 33—180)



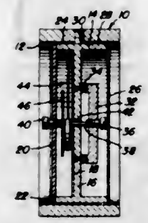
1. An instrument for measuring the relative location between the longitudinal center line of longitudinal corrugations and the axis of a cylindrical shaft in which the longitudinal corrugations are cut, said instrument comprising a main body having supporting feet in the form of blocks, each block having a plane surface which intersects the plane surface of the other block, said supporting feet forming a cradle to straddle the cylindrical surface of the shaft and positively orient said body relative to the axis of said shaft, a slide element mounted on said body for rectilinear transverse movement with respect thereto, a gauge element carried by said slide element and having a contact portion formed thereon to snugly interfit one of the longitudinal corrugations on the shaft and indicator means intercoupled between said body and said slide element for indicating the relative movement between said slide element and said main body.

2,611,188
CLINOMETER
Frank V. Bell, Stoney Creek, Ontario, Canada
Application May 27, 1949, Serial No. 95,678
In Canada May 28, 1948
3 Claims. (Cl. 33—206)



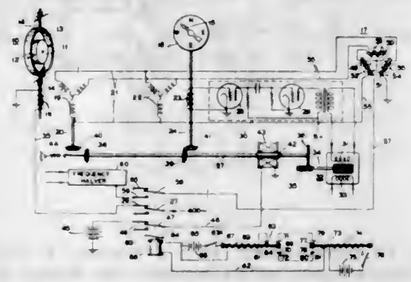
1. A clinometer comprising a bendable tube containing a gravity controlled element, an upper and a lower clamping member, said members having longitudinally curved faces between which the tube is gripped and curved longitudinally, the curved face of the upper of said clamping members being transversely concaved to conform to the tube wall, said members having the walls either side of said clamping faces cut away for a substantial length between the ends thereof to reduce engagement with said tube to a narrow contact band to thereby expose a major portion of the tube surface throughout said length between the ends, and clamping means to force said clamping members into clamping engagement with said tube.

2,611,189
LEVEL
Pablo Duarte Bello, Habana, Cuba
Application November 18, 1949, Serial No. 128,031
8 Claims. (Cl. 33—218)



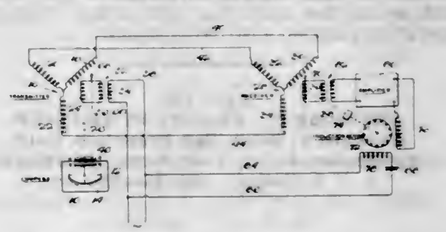
1. A level comprising a frame having a circular transverse opening therein, a sleeve rotatably received in said opening, a transverse disk in said sleeve having scale graduations thereon, a ring received in said opening and having a peripheral, axially extending flange receiving one end of said sleeve therein, a transparent disk seated between the ring and said end of the sleeve, said frame having an internally threaded bore opening into the opening, a set screw threaded in said bore radially disposed with respect to the axis of the sleeve and engaging and retaining said sleeve in a selected rotated position, a pointer in said sleeve having a shaft rotatably supported by said transparent disk, said pointer including a weighted portion.

2,611,190
NAVIGATION SYSTEM
Alan M. MacCallum, Maywood, N. J., and Sabine L. Baring-Gould, New York, N. Y., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application January 5, 1949, Serial No. 69,388
15 Claims. (Cl. 33—222)



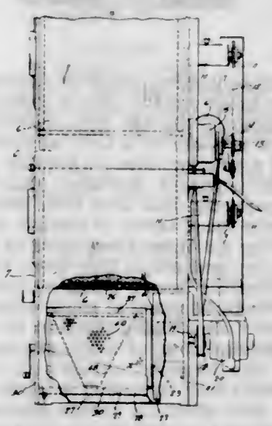
8. In combination with a controlled member for maintaining a fixed reference position in azimuth, coordinating means for operating said controlled member, means comprising a directional gyro, reference means comprising an earth inductor device, and cyclically operable means subjecting said coordinating means to alternate control by said directional gyro and said reference means.

2,611,191
TELEMETRIC OR REPEATER SYSTEM
Paul A. Noxon, Tenafly, and Wladimir A. Reichel, Hackensack, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application May 29, 1945, Serial No. 596,584
13 Claims. (Cl. 33—222)



1. A magnetic compass system comprising a compass magnet mounted for movement in response to the earth's magnetic field, an axially displaceable and rotatable shaft having a slave magnet mounted thereon and arranged in magnetic relation to said compass magnet whereby movements of the latter are transmitted to said slave magnet and shaft, bearings for supporting said shaft, means for mounting said shaft for limited axial movement in opposite directions within said bearings, means including a wound rotor and a wound stator for electrically transmitting rotation of said shaft to a remote point, said rotor being carried by said shaft, and means for periodically axially displacing said shaft in the bearings comprising a coupling transformer having a winding rotatable with the shaft and connected with said rotor and another winding fixed relative to said stator and offset axially from said rotatable winding and adapted to be connected to an alternating current source to move said rotatable winding axially substantially into alignment with the fixed winding.

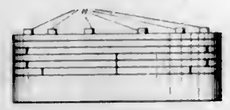
2,611,192
LINT REMOVER FOR DRIERS
Monte F. Huebsch, Milwaukee, Wis., assignor, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application November 21, 1949, Serial No. 128,593
3 Claims. (Cl. 34—82)



1. In a drier of the type described, the combination of a movable drawer mounted in the

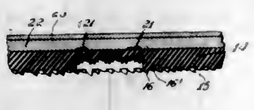
housing of the drier, a perforated lint collecting cylinder mounted for rotation in said drawer and through which drying air must pass in the closed position of said drawer, means for rotating said cylinder, scraper means bearing on the periphery of said cylinder for removing the collected lint from said cylinder, when the same is revolved, for deposit on the bottom of said drawer, and means for mounting said scraper means in operative relation with said cylinder.

2,611,193
ARITHMETIC FRACTION TRAINER
Kenneth V. Davis, San Francisco, Calif.
Application July 5, 1949, Serial No. 103,019
2 Claims. (Cl. 35—31)



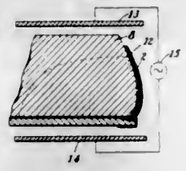
1. A device for use in teaching mathematical fractions comprising a circular base member, a plurality of upwardly extending pins arranged thereon and of a predetermined number, a plurality of varied colored discs adapted to be positioned on said pins in stacked formation, said discs comprising a unitary disc, half discs and segmental discs, all of which have indicia thereon either designating a unitary number or fractions thereof, the unitary disc being provided with openings therein corresponding in number to the number of the upwardly extending pins and the two half discs and the segmental parts of the segmental discs having openings therein that correspond in number to the predetermined number of the upwardly extending pins.

2,611,194
ANTISLIPPING FOOTGEAR
Anthony De Nitzio, Plainfield, N. J.
Application March 19, 1952, Serial No. 277,463
6 Claims. (Cl. 36—59)



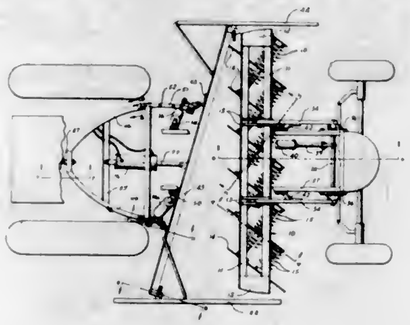
1. An anti-slipping overshoe comprising a flexible upper body portion and a generally flat sole portion secured thereto and defining therewith the general contour of a foot, adapted to be positioned on a foot or shoe to provide purchase for walking on slippery surfaces, said sole portion having connected ball and heel sections, formed of relatively thick layer of flexible material, said layer having an outer face, rows of pointed flexible teeth on and projecting from said face, said rows of flexible teeth being arranged in contiguous groups of parallel rows, which groups are disposed in non-parallel relation to each other to present parallel rows of teeth disposed at various angles to the longitudinal axis of the overshoe, to counteract any tendency to slide at angles to said axis, and metallic plates positioned in said sole at random points and in random directions to thus provide alternate rigid metallic plates and rows of flexible teeth, to counteract any tendency to slide.

2,611,195
STIFFENING UPPERS OF SHOES
John J. Brophy, Salem, and Charles G. Newton, Jr., Newburyport, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 16, 1951, Serial No. 231,953
10 Claims. (Cl. 36—68)



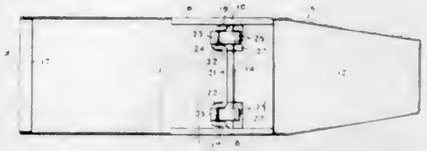
1. As an article of manufacture, a normally limp, stretchable stiffener blank adapted to be incorporated in an end portion of the upper of a shoe and to be conformed to a last, said blank comprising a thin, flexible sheet having an outline shaped to encompass said end portion of a shoe and comprising an intimate mixture of 100 parts of a member of the group consisting of vinyl chloride-vinyl acetate copolymer resins, ethyl cellulose and benzyl cellulose softening in the range of 150° to 210° F., from 5 to 75 parts by weight of dimethacrylate ester of polyethylene glycol having a molecular weight of about 200 and from 0.4% to 2.3% by weight of said dimethacrylate ester of a polymerization catalyst.

2,611,196
MULCHING AND GRADING APPARATUS
Dean E. Barrett and Clarence D. Lowery, Marion, Ohio, assignors to The Huber Manufacturing Company, Marion, Ohio, a corporation of Ohio
Application January 30, 1946, Serial No. 644,282
11 Claims. (Cl. 37—145)



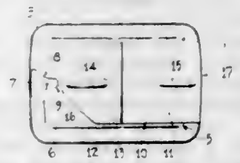
1. In combination with a tractor, a plurality of scrapers supported beneath the frame of said tractor and extending obliquely to the line of movement of said tractor, a plurality of series of soil loosening devices supported beneath said tractor frame and extending below said scrapers, each series of loosening devices being arranged between and extending transversely to two of said scrapers, an actuating device mounted on said tractor, and means for connecting said actuating device with said scrapers and said soil loosening devices to simultaneously raise and lower the same.

2,611,197
PORTABLE SECTIONAL IRONING BOARD
Alpha Perry Lantz, Washington, D. C.
Original application January 8, 1947, Serial No. 720,813. Divided and this application April 5, 1948, Serial No. 19,077
3 Claims. (Cl. 38—139)



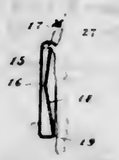
3. A portable folding ironing board comprising inner and outer sections joined in overlapping relationship having ironing surfaces in substantially the same plane when in operative position, said inner section having a downwardly and inwardly extending flange depending from its sides and said outer section having a downwardly depending flange from its sides, said inner section having an extended depressed portion including said side flanges from the line of overlap in nested engagement within the ironing surface whereby the ironing surfaces of said sections form a substantially planar surface, said inner board being provided with an opening on its ironing surface and extending into the depressed portion, and means for pivotally connecting said sections together adjacent said line of overlap comprising a rotatable pintle having a crank portion said pintle being pivotally mounted on the underside of the inner section with the crank portion adapted to be positioned beneath said opening, and a hinge leaf extending from said outer section into said opening and having an offset crank seat extending beyond the opening said crank seat adapted to carry said crank portion beneath the inner section when in an unfolded position and to support the outer section and swing from said unfolded position through said opening when the sections are folded one upon the other.

2,611,198
POULTRY TAG
Ernest Ward Ashton, Ottawa, Ontario, Canada, assignor, by mesne assignments, to Stoffel Seals Corporation, Tuckahoe, N. Y., a corporation of New York
Application January 31, 1949, Serial No. 73,837
10 Claims. (Cl. 40—3)



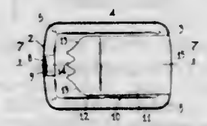
1. A breast tag for marking poultry which is closable from an open position and comprises a dish-shaped main portion and a locking-tongue, said tongue extending normally at an angle with respect to said dish-shaped portion and being integral therewith, said tongue comprising two sections joined by means of a bendable corrugation; said two sections of said tongue extending in normal angular relation to each other to thereby form a toggle, one of said sections of said tongue extending away from said dish-shaped portion, the other of said sections terminating in a blunt point extending towards said dish-shaped portion in the direction of an approximately triangular aperture located centrally of said dish-shaped portion at one end thereof; the part of said tongue other than said point, when the tag is in closed sealing position being wholly continued within said dish-shaped portion and being locked therein in an angular position which is reversed with respect to said normal angular position, said blunt point extending a short distance into said aperture.

2,611,199
TAG
William Stelzer, Summit, N. J., assignor to Stoffel Seals Corporation, Tuckahoe, N. Y.
Application March 4, 1949, Serial No. 79,600
25 Claims. (Cl. 40—3)



7. A tag formed of a single piece of sheet metal comprising a main portion having a tongue engageable jaw at one end, a tongue rearwardly of said main portion extending from the other end of said main portion and bendable about an axis near the junction of said main portion and said tongue so that the latter can be folded against said main portion, said tongue being bent to form a toggle joint whose knee points away from said main portion, said tongue having a tip adapted to gather thin foldable material of an article to which said tag is to be applied, whereby upon application of pressure near said knee said tongue is folded against said main portion and straightened out after said tip is in contact with said main portion, said tongue being of such length that said tip of said tongue is locked in said jaw after said tongue is straightened out to pinch said material between said tip and said jaw, and a depression in said main portion to facilitate bending of said tongue beyond the dead center of said toggle joint whereby in said locked position said knee is located in said depression and points toward said main portion, and whereby said toggle urges said tongue to remain locked.

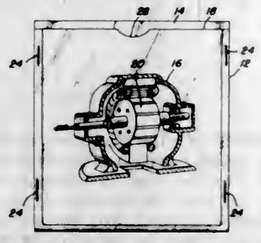
2,611,200
POULTRY TAG
Ernest Ward Ashton, Ottawa, Ontario, Canada, assignor, by mesne assignments, to Stoffel Seals Corporation, Tuckahoe, N. Y., a corporation of New York
Application April 21, 1950, Serial No. 157,233
7 Claims. (Cl. 40—3)



7. A metal tag for marking poultry and closable from an open position, comprising a dished main portion and a bendable locking tongue extending from one end of said main portion, said portion being provided with an aperture and with a toothed lip adjacent another end of said main

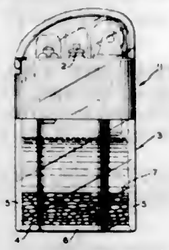
portion opposite said one end, said lip being struck out of said main portion to thereby produce said aperture, said tongue having two sections bent with respect to each other so as to form a toggle having a knee extending away from said dished main portion, said tongue terminating in a toothed tip positioned for engagement with said toothed lip when said tongue is bent against said main portion and straightened out so that said tongue sections are brought in alignment with each other, said main portion being sufficiently dished so that said tongue can be bent against said main portion with said knee reversed and positioned adjacent said main portion.

2,611,201
DISPLAY APPARATUS
Edward W. Bellis, Portland, Oreg.
Application December 2, 1949, Serial No. 130,813
1 Claim. (Cl. 40—65)



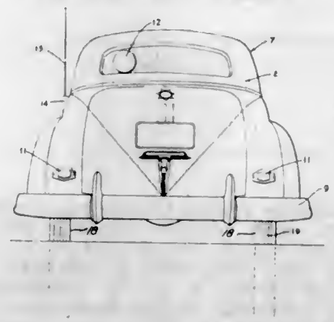
In an apparatus for illustrating components of a structure, the combination of a flat pocket including a back panel, a transparent front panel superposed thereon, fastener means securing together the front and back panels at the side and bottom edges thereof and affording an entrance opening at the top edge of the pocket, complemental pictorial representations provided on the front and back panels, and an opaque sheet slidably received in said pocket through said entrance opening for blanking out the pictorial representation on the back panel.

2,611,202
PYROPHORIC LIGHTER WITH DISPLAY CHAMBER
Sylvester George Lipic, Sappington, Mo.
Application February 17, 1950, Serial No. 144,725
5 Claims. (Cl. 40—126)



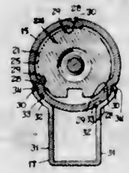
1. In combination with a pyrophoric lighter having a service fuel chamber, a wick extending into said chamber, and a transparent auxiliary fuel chamber communicating with the service chamber, the improvement comprising a transparent display chamber below the auxiliary fuel chamber, having lateral walls which are continuations of lateral walls of the auxiliary fuel chamber, a bottom wall, with the bottom wall of the auxiliary fuel chamber forming the top wall of the display chamber, and material to be displayed within said display chamber.

2,611,203
HIGHWAY SIGN
William J. Taylor, John H. Worsham, and John L. Davis, Oakland, Calif.
Application March 27, 1950, Serial No. 152,023
2 Claims. (Cl. 40—126)



1. Apparatus for controlling highway traffic comprising a panel member bearing a full-size pictorial representation of portion of an actual law enforcement vehicle, and means secured to and depending from said panel member and engaged with an off-pavement portion of a roadway in a position facing at least one flow of vehicular traffic on said roadway, said means having a lateral width substantially equal to the tread width of a tire of said actual vehicle and being spaced apart substantially equal to the lateral tread spacing of the actual vehicle tires, said panel member being peripherally contoured to conform with the external periphery of said portion of the actual vehicle.

2,611,204
RECEIVER AND ACTION ASSEMBLY FOR FIREARMS
Thomas R. Robinson, Jr., Newton, Conn., assignor to The Marlin Firearms Company, New Haven, Conn., a corporation of Connecticut
Application November 28, 1947, Serial No. 788,530
12 Claims. (Cl. 42—16)



1. In a firearm the combination including: a receiver having a breech-bolt chamber; breech-bolt guide-means on the inner wall thereof said guide-means comprising circumferentially-spaced parallel ribs extending longitudinally of said chamber; and a breech-bolt supported in said chamber by said ribs in relatively widely-spaced relationship to the inner wall of said chamber for longitudinal reciprocable movement in said chamber.

2,611,205
FISHING LURE
Frank R. Steel, Wilmette, Ill.
Application April 14, 1949, Serial No. 87,550
14 Claims. (Cl. 43—42.3)

4. A lure comprising, in combination: a buoyant body shaped to simulate a natural prey; a transparent diving and wobble plane rigid with

said body and extending forwardly and downwardly from the front end of said body; simulated legs, heavier than water, articulated to the rear end of said body on either side of the vertical central plane thereof for limited pivotal movement in many planes; said legs being heavy



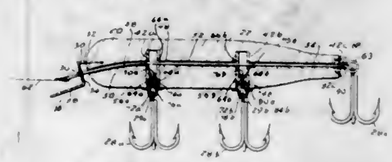
enough to tilt said body, when floating at reast, to such an extent that an initial forward displacement causes said body to rise until said legs have been deflected rearwardly to permit said body to nose over and dive; and hook means operatively connected to said legs.

2,611,206
DEEP-RUNNING FISH LURE
James W. Harvey, Lakeville, Conn.
Application January 25, 1947, Serial No. 724,305
3 Claims. (Cl. 43—42.24)



3. A fish lure comprising a hook having a shank with a barb on one end and an eye at the other end, a body secured on the shank between the eye and the barb, a sheet metal guard member having a perforated central portion mounted on the shank of the hook near the eye and having two integrally formed flaring ears extending rearwardly alongside of one end of the body, the ears having edges which diverge from the central portion of the guard outwardly toward the rear, said ears having eye simulations, hackle secured to the body between the ears, and means for positioning said guard member on the shank of the hook where it protects the end of the body and the hackle between the ears.

2,611,207
FISHING PLUG
Robert B. Pond, Attleboro, Mass.
Application April 17, 1947, Serial No. 742,171
1 Claim. (Cl. 43—42.36)



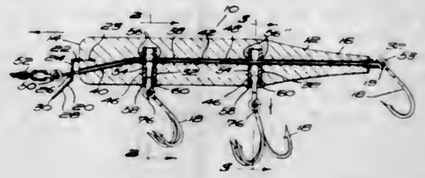
A fishing plug comprising a generally cylindrical body, a rounded nose section and a tapered rear end, said nose section having a central transverse slot, a face plate having a horizontal portion, a downwardly extending portion, and a forwardly extending lower tip portion, the horizontal portion being secured in the central transverse slot, said cylindrical body having an axial bore and said nose section having a downwardly extending bore communicating with the axial bore, said downwardly extending face plate portion having an opening aligned with the outer end of the downwardly extending bore, and a draw wire extending through said axial bore, said downwardly extending bore, and said opening in the downwardly extending face plate portion.

2,611,208
FISH LURE
Georges Alexath, Lausanne, Switzerland
Application January 24, 1949, Serial No. 72,399
In Switzerland August 13, 1947
1 Claim. (Cl. 43—42.41)



A fish lure comprising a hook provided with a curved portion, a supporting member therefor, a spring wire having one end secured to the supporting member and the other end carrying said hook, and locking means adapted to hold said hook in retracted position in which said spring wire is tensioned, said locking means including a notched member provided with a locking notch to releasably retain the hook at the curved portion thereof in retracted position, and with a release notch disposed laterally of the locking notch relatively to the plane of the hook, whereby said hook may be released from engagement with said notched member by pressure acting either in the plane of the hook or transversely to said plane owing to the bite of a fish.

2,611,209
FISHING LURE
Robert B. Pond, Attleboro, Mass.
Application February 20, 1948, Serial No. 9,766
8 Claims. (Cl. 43—42.44)

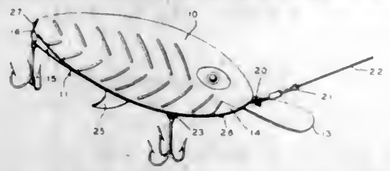


1. A fishing lure, comprising an elongated generally cylindrical fish simulating body, having a hole extending upwardly from the lower portion thereof, a projection projecting inwardly from the upper portion of said hole, a fish hook, and fishhook mounting means swivelly mounted within the lower portion of said hole, having a channel in the upper portion thereof of smaller width than the diameter of said projection, whereby when said mounting means is moved axially upwardly within said hole, said projection fits in said channel and locks said mounting means in non-swivelling position.

2,611,210
ARTIFICIAL BAIT
Charles A. Clark, Springfield, Mo.
Application March 1, 1948, Serial No. 12,291
2 Claims. (Cl. 43—42.47)

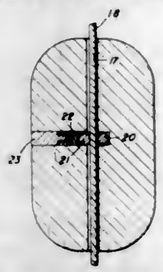
1. An artificial lure comprising an elongated body tapering from an intermediate section toward both ends, an elongated plate having a

narrow intermediate portion attached to the underside of said body, a relatively broad bill extending from the forward end of said intermediate portion at an obtuse angle thereto, said bill having an integral U-shaped loop struck therefrom adjacent said forward end for attachment of a line and being transversely curved to provide a slight concavity upwardly, said forward end having oppositely directed plate-like projections having transverse and longitudinal curvature throughout their extent corresponding to the adjacent surface portions of the body that the projections contact, and a fastening element extending therethrough into said body and lateral



projections bent upwardly into abutting relation with said body, another fastening element extending through said intermediate portion into said body, the portion rearwardly of said other fastening element being spaced from said body and provided with lateral projections bent upwardly into abutting relation with said body, and a narrow neck extending upwardly from the rearward end of said portion in closely spaced relation to the rear edges of said rearward lateral projections whereby a hook supported thereon will have limited movement, said neck having an outwardly offset free end secured to the end of said body.

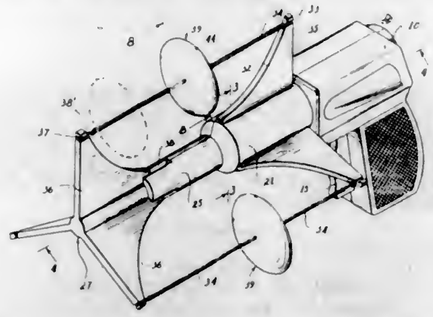
2,611,211
FISHING FLOAT
Franklin T. Stockton, Fort Worth, Tex.
Application May 17, 1948, Serial No. 27,432
2 Claims. (Cl. 43—44.91)



1. A fishing float comprising a buoyant body having a vertical bore therein to freely receive a fishing line, a lateral bore therein defining a chamber in the body, a pair of rollers loosely positioned in a parallel relation in the chamber at opposite sides of the line, spring means holding the rollers in friction clamping engagement with the line, and a plug closing the chamber and opposing action of the spring means for holding the rollers and spring means in assembled relation in the chamber.

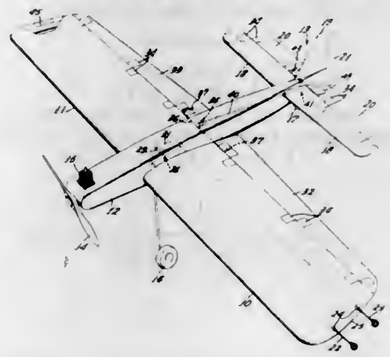
2,611,212
TWISTED STRING TOY
Reinhardt M. Wellner, Philadelphia, Pa.
Application October 6, 1950, Serial No. 188,789
3 Claims. (Cl. 46—63)

1. A twisted string toy comprising a handle having a cylindrical projection thereon, a head member rotatably connected to the cylindrical projection and held against axial displacement therefrom, a second head member having a shank extending through the first head member, an inner sleeve fixed to the first head member, said shank extending through the inner sleeve, a trigger mounted in the handle for movement with respect thereto and connected to the shank of the second head member to move the second head member relative to the first head member so as to vary the spacing therebetween, a spring surrounding the shank of the second head member



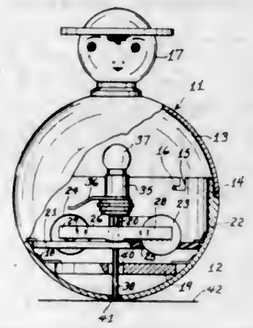
and abutting the end of the inner sleeve to normally urge the outward movement of the second head member from the first head member, each of said head members having respectively radially-extending portions circumferentially spaced from each other, twisted string button devices extending between aligned radially-extended portions of the head members, means carried by the inner sleeve and responsive to the movement of the trigger for effecting the rotation of the inner sleeve and the head members as the trigger is pulled whereby the twisted string button devices will be rotated upon the handle.

2,611,213
U CONTROL TOY AIRPLANE
Howard W. Johnson and Robert L. Palmer, Burbank, Calif., assignors to Henry Engineering Company, Burbank, Calif.
Application November 12, 1949, Serial No. 126,856
6 Claims. (Cl. 46—77)



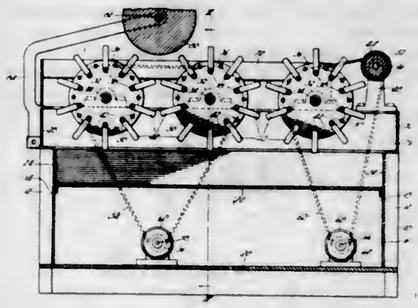
1. A captive type model airplane, comprising: a fuselage; a wing laterally extending outwardly from each side of said fuselage; a control surface coextensive with the trailing edge of each wing; means hingedly connecting one of said surfaces to the trailing edge of each wing; a continuous torque rod extending laterally from the fuselage to each side thereof with its free ends fixedly engaged one with each of said flaps respectively whereby rotation of said torque rod about its axis will rotate both of said flaps in the same direction; operating means connected to said torque rod to produce rotation thereof; a flexible control line defining the radius of flight of said airplane; and means securing said line to said operating means whereby an operator can conjointly move said surfaces in the same direction to maneuver said airplane in flight.

2,611,214
ROLY-POLY TOY
Frederick P. Schur, Washington, D. C.
Application June 5, 1950, Serial No. 166,114
6 Claims. (Cl. 46—116)



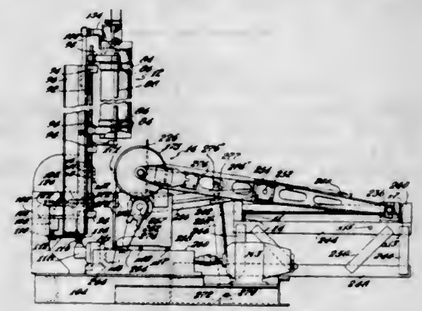
1. In a toy of the character described, a light-transmitting body having a rounded bottom formed with an aperture, a lamp mounted in said body, a battery in said body, switch means carried by said body, said switch means extending through said aperture and being operated by engagement with the supporting surface under the body responsive to rocking motion of the body, and circuit means connecting said battery to said lamp and including said switch means.

2,611,215
LEAF STRIPPER
Gordon W. Johnson, Raytown, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri
Application December 14, 1946, Serial No. 716,359
4 Claims. (Cl. 47—1)



1. A leaf stripper comprising a frame, a plurality of drums rotatably carried by said frame, means for rotating said drums, a plurality of pivot rods carried in spaced relationship about the peripheries of said drums parallel to the axes of said drums, a plurality of resilient fingers pivotally carried on each of said rods and adapted to be extended radially from said drums by centrifugal force, and a rod carried by said drums parallel to and between each pair of said pivot rods, said rods being spaced radially outwardly from said pivot rods and limiting the pivot arc of said fingers.

2,611,216
METHOD OF AND MACHINE FOR MAKING CIRCULAR FLUORESCENT LAMPS
Howard C. Snow, Swampscott, Everett F. Kelley, Melrose, and Samuel S. Sayward, Danvers, Mass., assignors to Consolidated Electric Lamp Company, Lynn, Mass., a corporation of Massachusetts
Application March 25, 1949, Serial No. 83,356
19 Claims. (Cl. 49—7)



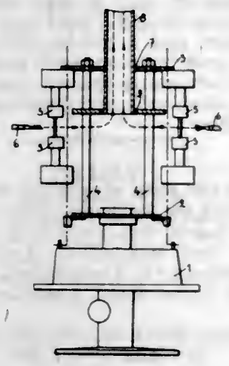
1. A machine for converting a partially manufactured straight lamp tube into a substantially circular lamp comprising supporting means for suspending the lamp from one end means for softening the lamp sufficiently so that elongation takes place due to its suspended weight, circular mold means engageable with the opposite end of the lamp, power operated means for effecting engagement of the mold means with said opposite end of the lamp and movement thereof in directions to wrap the lamp thereabout, a motor for supplying the power necessary to effect operation of said power operated means, means situated in a position to be contacted by elongation of the lamp and operable by a predetermined elongation of the lamp to initiate operation of said motor.

10. A method of bending glass tubing comprising heating the tube to soften its walls, cooling one side without spoiling its plasticity and then bending the tube so that the softer side forms the inside of the bend.

2,611,217
APPARATUS FOR THE MANUFACTURE OF GLASS ARTICLES
Dieudonné Couquelet, Liege, Belgium
Application June 12, 1950, Serial No. 167,655
In Belgium June 27, 1949
3 Claims. (Cl. 49—7)

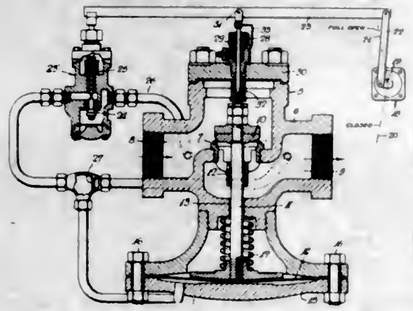
1. A rotary machine for the manufacture of glass ampoules comprising, a rotor having two plates, struts for securing one plate to the other, work heads mounted on the upper plate for maintaining the tubes of glass from which the ampoules are formed, a series of concentrically arranged blow pipes for heating said tubes of glass

so as to form the ampoules, an aperture centrally located in the upper plate of the rotor and



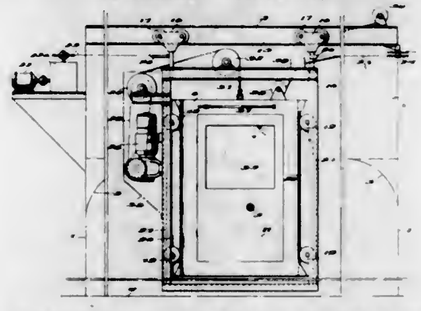
a chimney extending into said aperture for removing the lost heat during operation.

2,611,218
PILOT-OPERATED VALVE
Paulsen Spence, Baton Rouge, La., assignor to Spence Engineering Company, Inc., Walden, N. Y., a corporation of New York
Application October 11, 1946, Serial No. 702,813
2 Claims. (Cl. 50—11)



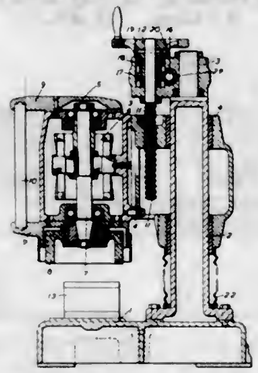
1. In a regulating valve, a main valve including a body having a high-pressure side and a low-pressure side, a main-valve member for controlling the flow of pressure fluid from the high-pressure side to the low-pressure side, a fluid-pressure-actuated member for actuating said valve member and having a high-pressure side and a low-pressure side, means including a pilot-valve member for conducting high-pressure fluid from the high-pressure side of said main valve to the high-pressure side of said fluid-pressure actuated member, bleed means for exhausting the high-pressure side of said fluid-pressure-actuated member, a fulcrum adjustably positionable relatively to said valve body, selective positive positioning means for positioning said fulcrum in a selected desired position, a lever directly connected to said fulcrum, a first connecting member in direct actuating relation with said pilot-valve member and in direct following relation with said lever at a point spaced from the point of connection to said fulcrum, and a second connecting member in direct actuating relation with said lever at a point intermediate said spaced points and in direct following relation with said main-valve member, said pilot-valve member and said main-valve member being so connected to said lever that for a given adjusted positioning of said fulcrum one direction of lever movement will correspond to an opening movement of said pilot-valve member and to a closing movement of said main-valve member, while the opposite direction of lever movement will correspond to a closing movement of said pilot-valve member and to an opening movement of said main-valve member, so that the magnitude of correcting pilot-valve displacements may exceed the magnitude of corresponding corrected main-valve displacements, whereby relatively sensitive regulation of said valve may be achieved.

2,611,219
WORK BLASTING EQUIPMENT
Wiltie I. Gladfelter, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application May 26, 1951, Serial No. 228,501
20 Claims. (Cl. 51—8)



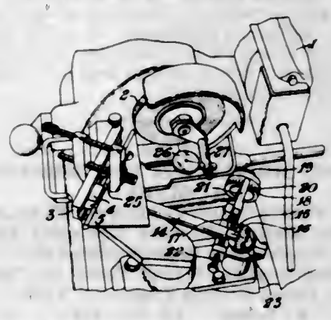
1. In a blast room, a walled enclosure, a trackway extending across the upper part of the enclosure, an elevator car suspended from said trackway, means for traversing said suspended car along said trackway, means for raising and lowering said car relative to said trackway, and blasting means carried by said car and mounted for at least limited universal movement relative thereto.

2,611,220
SURFACE GRINDING MACHINE
James Selby, Willesden, London, England, assignor to B. Elliott & Company Limited, London, England
Application January 8, 1952, Serial No. 265,369
In Great Britain December 1, 1950
5 Claims. (Cl. 51—55)



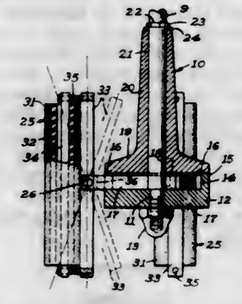
1. A surface grinding machine comprising in combination a grinding tool, means for moving said tool towards the work, said means including a feed screw, a manually operable member on said feed screw for rotating said screw, and a fine adjustment means for rotating said feed screw to effect fine adjustments of said tool relative to the work, said latter means including a manually operated rotatable fine adjustment member, a reduction drive, a coupling device, and a control member, said reduction drive including a worm element rotatable by said fine adjustment member and a single helically toothed gear meshing with said worm element, said coupling device including a coupling disc fixed with said gear to form an axially slidable combined member and a cooperating complementary coupling member fixed with said feed screw, and said control member including a slotted member rotatable co-axially of said worm element with the slot defining edges of said member engageable with said axially movable combined member, and means for rotating said slotted member to cause axial movement of said combined member to engage it with or disengage it from the complementary coupling member.

2,611,221
APPARATUS FOR PRECISION GRINDING
Clement Tipton Rhodes, Ascot, England
Application March 9, 1951, Serial No. 214,713
In Great Britain April 12, 1950
4 Claims. (Cl. 51—103)



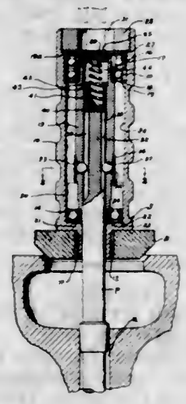
1. A machine for the precision grinding of an article required to have a circular sectioned part accurately ground in concentricity with another circular sectioned part comprising a grinding wheel, a recessed block having a hardened recess adapted to accommodate the second mentioned part with the first mentioned part in contact with said grinding wheel, an angularly adjustable member carrying said block and adjustable about an axis perpendicular to the axis of the grinding wheel, said member having a radial arm, a friction engagement wheel for engaging said second mentioned part and holding it in the recess, means for rotating said friction wheel to rotate said second mentioned part in said recess, means for locking said member in any position of adjustment, scale and co-operating index means one of which moves with said member and indicates the movement thereof against the other, and means for adjusting and fixing in any position of adjustment the position of one of said means to adjust the scale reading for any given position of adjustment of said member, said scale and co-operating index means including an index on said arm and reading against an angularly adjustable but otherwise fixed scale, a micrometer screw, said arm abutting against the end of said micrometer screw, a drum head carried by said screw provided with a fine reading scale reading against a second index, said head being rotatably adjustable on said screw and provided with means for locking the same to the screw in any position of relative adjustment.

2,611,222
ROUGHING AND FINISHING TOOL
Berd L. Johnson, Billings, Mont.
Application April 29, 1949, Serial No. 90,365
19 Claims. (Cl. 51—184.1)



1. In a tool of the character described, a rotatable circular head, a circular plate in assembled coaxial relation to said head and adapted to turn with respect thereto, a drive spindle for the tool extending through a central axial bearing in said head and secured to said plate, elongated arms pivoted at their inner ends on said head at circumferentially spaced points that are spaced radially outwardly from the longitudinal axis of said head for oscillation and projectionable outwardly from the head, abrading devices of elongated form disposed substantially parallel to the longitudinal axis of the head and pivotally mounted intermediate their ends on and weighting as flyweights the outer ends of said arms, and guides on the peripheral portion of said plate slidably abutting the intermediate portions of said arms.

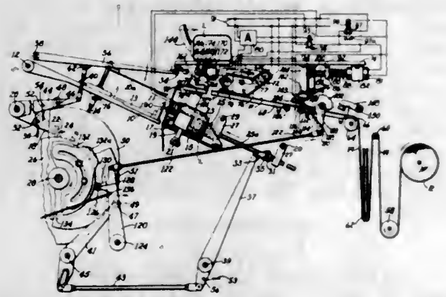
2,611,223
VALVE SEAT GRINDING TOOL
Herbert M. Emge, Towson, Md., assignor to The Black & Decker Manufacturing Company, Towson, Md., a corporation of Maryland
Application May 1, 1951, Serial No. 224,028
3 Claims. (Cl. 51—241)



1. A valve seat grinding stone sleeve adapted for use on a pilot stem clamped coaxially in a valve stem bore comprising a rotatable hollow cylinder provided at its upper end with means for a driving engagement by a separate power driving means and at its lower end with a coaxial tubular extension for mounting a valve seat grinding stone thereon, an inner sleeve to receive the upper end of a pilot stem inserted

through said tubular extension, anti-friction bearing means rotatably mounting said hollow cylinder to said inner sleeve, a plunger movable in the upper end of the bore of said inner sleeve to engage the top of a pilot stem, the upper end of said inner sleeve being counterbored to provide an internal shoulder in the bore thereof and the plunger being provided with a retaining rim to engage said shoulder, bore closure means within said counterbore including a disc and a snap ring outward of said disc and engaged in a snap ring groove in said counterbore, and a compression spring interposed between said closure and said plunger biasing said plunger toward said shoulder, whereby the stone sleeve may be depressed relative to the pilot stem and will be lifted relative to the stem upon release of the depressing force.

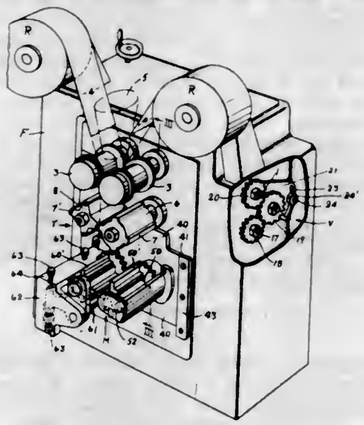
2,611,224
REGISTRATION DEVICE FOR WRAPPING MACHINES
Thormod Jensen, Laureiton, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application July 1, 1947, Serial No. 758,417
13 Claims. (Cl. 53—25)



1. In a machine for wrapping articles of varying girth in the leading end of a continuous web of wrapping material provided with a series of equally spaced printed panels, the combination with means for folding the leading end of said continuous web about the girth of an article to be wrapped whereby the length of the material wrapped about the article varies in accordance with variations in the girth of the article, of a web registering mechanism for automatically varying the position of the leading end of the web with respect to said folding means prior to the wrapping of the article in the leading end of the web to cause the leading printed panel to be located in a predetermined position on the article about which the web is wrapped.

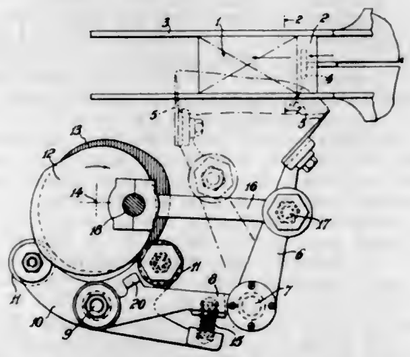
2,611,225
MACHINERY FOR FABRICATING BAGS IN VARIOUS SIZES
Victor George Williams, Toronto, Ontario, Canada, assignor, by mesne assignments, to Delamere & Williams Company, Limited, Toronto, Ontario, Canada
Application December 30, 1948, Serial No. 68,303
4 Claims. (Cl. 53—88)

1. A bag forming machine comprising, means for continuously feeding web material at a uniform rate and forming a continuous tube therefrom, transverse sealing means comprising a sealing member orbitally movable in a path having a portion substantially coincident with the path of movement of said tube whereby said member is held in sealing engagement with said tube during a portion of its orbital movement, variable speed driving means for driving said member in timed relation to movement of said web, said driving means being adjustable to vary the time for completing an orbital cycle of said member,



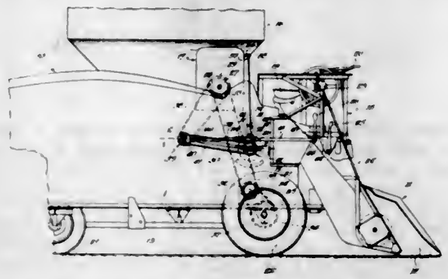
additional means driven by said driving means and arranged to vary the velocity of said sealing member at different points on its orbit whereby to adjust the speed of said member to substantial equality with the speed of said web over said portion of its orbital movement.

2,611,226
TUCKING MECHANISM FOR WRAPPING MACHINES
Valentine Pearce Harvey, London, England, assignor to Molins Machine Company Limited, London, England, a British company
Application August 21, 1947, Serial No. 769,801
In Great Britain August 26, 1946
4 Claims. (Cl. 53—151)



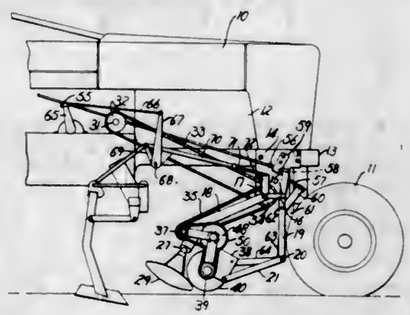
1. In a wrapping machine having conveyor means to move articles along a straight path during wrapping, tucking mechanism comprising in combination a tucking element having a surface for engaging and folding a rearwardly extending part of a wrapper on an article being conveyed, a support on which said element is pivoted for oscillating movement, independently of movement of said support, in a plane containing said path from an initial article engaging position, in which said surface forms an acute angle with said path, to a position substantially perpendicular to said path, means for oscillating said element to cause said surface to move lengthwise of said path in the general direction of travel of the articles, and to alter continuously the angular relation of said surface to said path, and mechanism driven in timed relation to said means for so displacing said support toward and away from said path that said element moves toward said path during pivotal movement of said element with said articles and while said surface is in engagement with the article wrapper, whereby the part of the wrapper being folded tends to be drawn around the corner of the end face of the article.

2,611,227
COMBINATION VARIABLE SPEED PULLEY AND ENGINE THROTTLE CONTROL FOR HARVESTER THRESHERS
Arthur H. Keller, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application January 19, 1951, Serial No. 206,883
8 Claims. (Cl. 56—20)



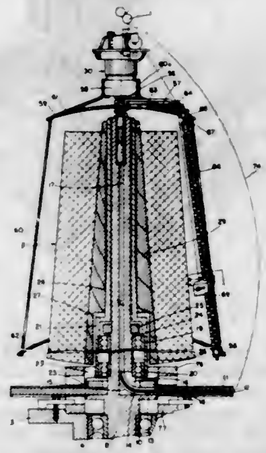
1. In a thresher, a drive mechanism comprising an engine, a throttle control for said engine, a threshing mechanism, a variable spaced V-belt transmission interposed between said engine and said threshing mechanism, shifting means for effecting change in the ratio of V-belt transmission, a rockable lever, and link means joining said rockable lever with said throttle control and with said shifting means for simultaneously changing engine speed and ratio of V-belt transmission to said threshing mechanism by rocking said rockable lever.

2,611,228
BEET TOPPER
James Morkoski, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application June 23, 1949, Serial No. 100,820
6 Claims. (Cl. 56—121.46)



1. In topping mechanism for beets and the like adapted to be mounted upon a tractor for floating movement with respect thereto, a top-removing member connected to the tractor for vertical movement with respect thereto, a rotary feeler gauge mounted in advance of said member to engage the beets, said gauge having a pneumatic beet-contacting tire yieldable in proportion to the size of the beet.

2,611,229
APPARATUS FOR SPINNING, TWISTING, AND WINDING YARN
John J. Gannon, Troy, and Charles P. Powell, Waterford, N. Y., assignors to Cluett, Peabody & Co. Inc., Troy, N. Y., a corporation of New York
Application March 11, 1949, Serial No. 80,994
7 Claims. (Cl. 57—58)

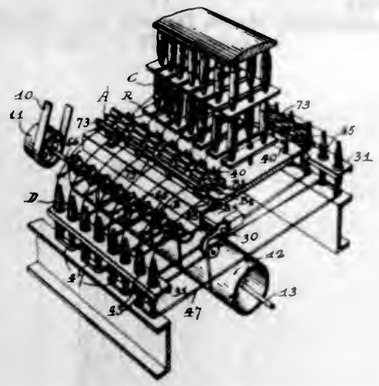


1. In a winding and twisting apparatus, a tubular bobbin carrier, a rotatable element passing through said carrier and on which said carrier is rotatably mounted, said element having an axial passage extending downwardly from its upper end and a radially extending passage opening into the lower end of said axially extending passage, a member rotatably mounted on the upper end of said element above said carrier and having a depending skirt telescoping over and spaced from the carrier, a reversing cam screw rotatably carried by said skirt and having its axis of rotation generally lengthwise of but at one side of the carrier, a cam follower slidingly guided along the screw by said skirt and having camming engagement with said screw, a thread guide carried by said follower, and guiding to a bobbin on said carrier to be wound thereon, a thread descending past the skirt, inwardly along the radial passage, upwardly through said axial passage and then to the thread guide, means for holding the carrier from rotation with said element, and a driving connection from said element to said screw by which relative movement between the member and element causes rotation of said cam screw.

2,611,230
SPINNING FRAME
Erle F. Saunders, Montreal West, Quebec, Canada, and Donald Drysdale, Philadelphia, Pa.
Application February 3, 1950, Serial No. 142,222
29 Claims. (Cl. 57—87)

1. A spinning frame, comprising, a plurality of spindles on each of which yarn is spun, a set of drawing rolls from which the strand is fed to the

spindles, a creel and a plurality of roving bobbins on the creel from which the roving is fed to the drawing rolls and collecting means for scavenger waste, means for driving the drawing rolls and common driving means for a plurality of spindles, separate detecting means for each spindle responsive to ends which are not intact, separate interrupting means for each spindle for stopping the roving being fed to that spindle at a position prior to the entry of the roving into the drawing rolls, each of said detecting means including a pivoted support, means for pivoting said support in reciprocating movements, a sensing element pivoted to said support and having an extending portion for engagement with the strand of fibers



being spun and a balancing portion extending in an opposite direction from the pivotal point, the balancing portion of the sensing element being adapted to over-balance the extending portion whereby the balancing portion tends to take a predetermined path in the absence of pressure on said extending portion, a switch element having a switch member projecting within said predetermined path, the reciprocating movements of the support being adapted to cause movement of the sensing element into the normal path of the strand of fibers being spun whereby said extending portion is deflected when the strand is intact thereby causing the balancing portion to clear said switch member, said switch member being connected to the interrupting means for that spindle.

2,611,231

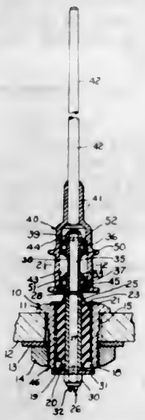
BALL BEARING TEXTILE SPINDLE

Lester E. Keene, Newtonville, Mass., assignor, by mesne assignments, to Whitin Machine Works, a corporation of Massachusetts

Application June 10, 1949, Serial No. 98,237

1 Claim. (Cl. 57—130)

A textile spindle comprising a base member adapted to be secured to the frame of a spinning or twisting machine, a central post carried by said base member and presenting an upright cylindrical stem portion, a whorl, a blade fast with said whorl, said whorl being recessed axially at its underside with a depending annular belt-engaging skirt portion which extends down over and encompasses said stem, said post and its stem being in axial alignment with said blade and constituting a normally stationary support for said whorl and its blade during their rotation by a belt, the interior of said recess presenting an inner annular shoulder, a pair of self-sealed lubricated ball bearing units spaced widely apart on said stem and housed entirely within the axial recess of said whorl skirt portion, said ball bearing units supporting said whorl and its blade for free rotation upon said stem, each of said ball bearing units having its inner and outer race ring members secured by a light press fit to the whorl and the stem respectively, the upper ball bearing unit having the top end face of its outer race ring member in firm abutting engagement against the an-



nular shoulder within the whorl recess, a spacer on said stem interposed between and in engagement with the inner race ring members of both ball bearing units, and a resilient metal ring member beneath and bearing against the bottom end face of the outer race ring member of the lower ball bearing unit securing said last-named race ring member fast with the whorl.

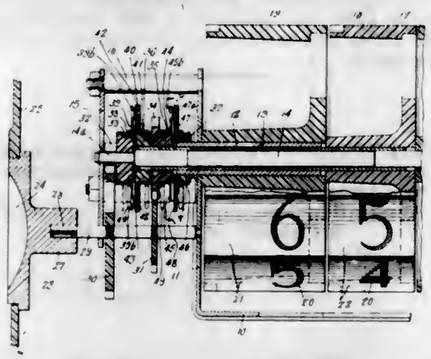
2,611,232

CYCLOMETER CLOCK ALARM

Lucien C. Wulschpard, Long Hill, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut

Application November 21, 1947, Serial No. 787,419

13 Claims. (Cl. 58—19)



3. A cyclometer-type alarm clock comprising an hour wheel having a single set of indicia thereon designating hours; a tens-of-minutes wheel having two sets of indicia thereon, each set consisting of numbers from zero to five; contacts respectively settable each in different rotative positions to sense any desired 10-minute interval in 12 hours; a member manually settable in 72 different rotative positions within a single 360° arc, corresponding to said 10-minute intervals; means for gearing said member to said contacts in ratios of six-to-one and one-to-one respectively; and means including contacts respectively cooperating with said settable contacts and positioned by said wheels for switching a circuit to cause an alarm to be given when the wheels come to the particular set of positions determined by the setting of the manually settable member.

2,611,233

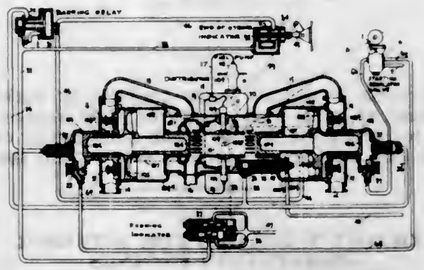
STARTING DEVICE FOR FREE PISTON INTERNAL-COMBUSTION OPERATED COMPRESSORS OR GAS GENERATORS

Robert James Welsh, Rugby, England, assignor to The English Electric Company Limited, London, England, a British company

Application July 18, 1947, Serial No. 761,752

In Great Britain May 24, 1946

11 Claims. (Cl. 60—14)



1. In a free piston internal combustion operated gas generator plant comprising a gas generator having an engine cylinder, at least one compressor cylinder, at least one buffer cylinder and at least one free piston assembly consisting of an engine piston, a compressor piston and a buffer piston freely reciprocating in the said cylinders an unrestricted source of compressed air, a pneumatic connection from said source to the said buffer cylinder, a hydraulically operated master starting air valve in said pneumatic connection, opening against the air pressure of said source, a source of hydraulic pressure, a hydraulic barring relay, an end of stroke indicator, a "running indicator" operably connected to the said free piston assembly, hydraulic connections from the said source of hydraulic pressure through the said running indicator to the said barring relay and end of stroke indicator, the said running indicator connecting the said barring relay and the said end of stroke indicator to the said source of hydraulic pressure when the gas generator is at a standstill and cutting them off when it is running, a spring biased hydraulically operated vent valve in the said buffer cylinder, a spring biased hydraulic barring servomotor, hydraulic connections from the said barring relay and the said end of stroke indicator to the said vent valve and barring servomotor, the said end of stroke indicator and the said barring relay admitting hydraulic pressure to the said vent valve and barring servomotor when the said free piston assembly is in a position remote from the starting position whereby the said vent valve is opened and the said free piston assembly is barred into its starting position, and cutting off said vent valve and barring servomotor from hydraulic pressure when the said free piston assembly is in the starting position, the said vent valve being then closed and the said barring servomotor withdrawn by their respective spring bias, a hydraulic connection of the said barring relay and end of stroke indicator to the said hydraulically operated master starting valve, and a valve in this last mentioned hydraulic connection controlled by the said barring servomotor so as to be opened in the retracted position thereof and closed during the barring operation: a starting relay, a starting device comprising in combination a starting air regulator valve, a non-return valve, both said valves arranged in succession in the said pneumatic connection between the said master starting air valve and the said cushion cylinder, and a starting cam operably connected to the said free piston assembly and opening said starting air regulator valve in synchronism with the reciprocating movement of the said free piston assembly whereby compressed air is admitted through the said non-return valve to the said buffer cylinder in a number of pulses while the master starting valve is kept open by hydraulic pressure.

2,611,234

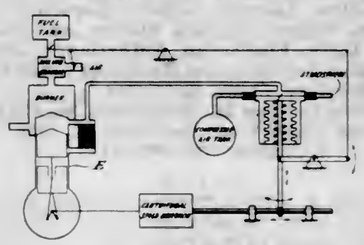
CONTROL FOR ENGINES EMPLOYING A PRESSURE FLUID MEDIUM

Alexandre Horowitz, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application May 13, 1948, Serial No. 26,812

In the Netherlands June 18, 1947

5 Claims. (Cl. 60—24)



1. In combination, an engine in which a pressure fluid medium is employed and a control device for said engine, said control device comprising first means for admitting pressure fluid medium to said engine, second means for allowing pressure fluid medium to escape from said engine, third means responsive to the pressure to the pressure fluid medium in said engine and comprising an element movable to positions for rendering either of said first or second means operative, and fourth means responsive to the load imposed upon said engine for effecting the positioning of said element.

2,611,235

MULTICYLINDER HOT GAS RECIPROCATING PISTON ENGINE OF THE DOUBLE-ACTING TYPE

Franciscus Lambertus van Weenen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

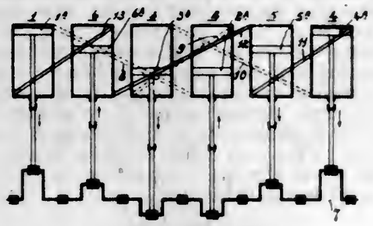
Application October 7, 1949, Serial No. 120,047

In the Netherlands October 12, 1948

3 Claims. (Cl. 60—24)

1. A hot gas engine comprising a plurality of cylinder means arranged in a row and including two end cylinder means and at least two intermediate cylinder means, a plurality of reciprocating members arranged one in each cylinder means and forming therewith a hot working space and a cold working space adapted to receive a working gas, means interconnecting said reciprocating means to cause each working space of each end cylinder means to operate in the

same cycle with a working space of one of said intermediate cylinder means, and a plurality of connections for the passage of the working gas each connection connecting the hot space of one cylinder means to the cold space of another cylinder means, the connection connected to the hot space of each end cylinder means being con-



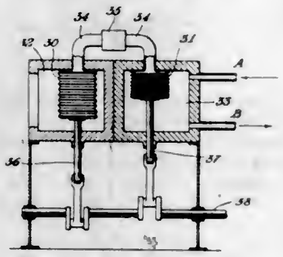
nected to the cold space located in an intermediate cylinder means and operating in the same cycle and each connection connected to the cold space of each end cylinder means being connected to the hot space located in an intermediate cylinder means and operating in the same cycle.

2,611,236

HOT GAS ENGINE OF THE BELLOWS TYPE

Jacob Willem Laurens Köhler, Cornelius Otto Jonkers, Willem Hendrik Stigter, and August Albert Liebe, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application October 26, 1949, Serial No. 123,601
In the Netherlands December 20, 1948
3 Claims. (Cl. 60—24)



1. A hot gas engine comprising means forming a cold working space of variable volume and adapted to receive a working gas, means forming a hot working space of variable volume and connected to said cold working space, one of said means including a bellows-like member, means for heating the working gas within said hot space, means for cooling the gas within said cold space and means to vary the volume of the hot working space and cold working space in phase differences.

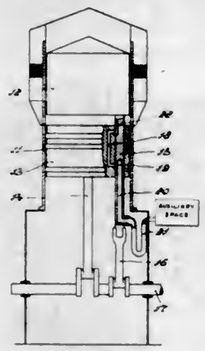
2,611,237

HOT GAS RECIPROCATING ENGINE COMPRISING A DEVICE FOR VARYING THE AMOUNT OF WORKING MEDIUM IN SUCH ENGINES

Heinrich de Brey and Franciscus Lambertus van Weenen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 16, 1949, Serial No. 127,576
In the Netherlands December 4, 1948
5 Claims. (Cl. 60—24)

1. A closed cycle hot gas engine comprising a cylinder, reciprocating means therein, a power medium contained in the working space of said cylinder, means to vary the power output of said engine by varying the amount of the working medium within said cylinder, said latter means



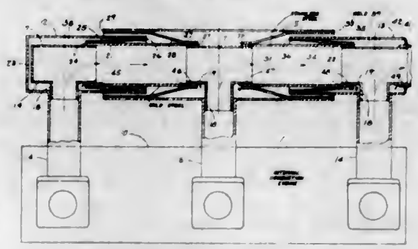
comprising a second space containing working medium at controlled pressures, duct means in said reciprocating means which periodically connects said working space with said second space.

2,611,238

EXHAUST MANIFOLD FOR INTERNAL-COMBUSTION ENGINES

Ross L. Fryer, Jr., Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York

Application January 9, 1950, Serial No. 137,647
11 Claims. (Cl. 60—29)



5. An exhaust manifold for an internal combustion engine having cylinder heads comprising a plurality of branch pipes adapted for rigid securement to the cylinder heads; a casing integral with each branch pipe, said casings being arranged in axial alignment with each other; an exhaust gas conduit disposed in the casings, said conduit including a plurality of tubular T members and a plurality of sleeves, the cross portions of the T members being disposed in telescopic slip fit relation with the sleeves and the stems of the T members being disposed in telescopic slip fit relation with the branch pipes; and tubular connecting members secured to the casings and to the sleeves so that the casings support the sleeves and hence the conduit, the telescopic arrangement of the main conduit members permitting longitudinal thermal expansion thereof in reference to the casings.

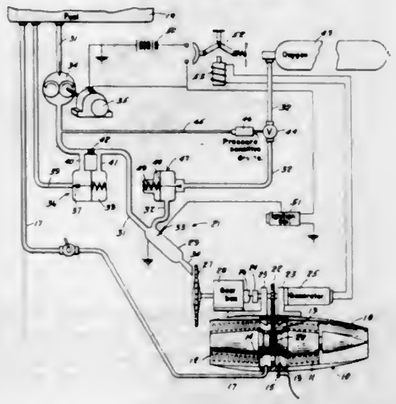
11. In an exhaust manifold for an internal combustion engine having cylinder heads, a main conduit comprising conducting members disposed in slip joint relation to provide for thermal expansion, casings enclosing such conduit in spaced relation thereto, and tubular members whose ends are welded to the casings and to the main conduit to form hermetically sealed joints, said tubular members and casings being so arranged that they define chambers externally of the conduit in communication with the slip joints so that any exhaust escaping through the joints will be captured therein.

2,611,239

FUEL AND COMBUSTION SUPPORTING MEDIUM CONTROL FOR TURBINE ENGINE STARTERS USING EXCESS FUEL FOR COOLING

Arthur T. Briggs, South Williamsport, Pa., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware

Application March 18, 1949, Serial No. 82,223
7 Claims. (Cl. 60—39.14)



7. In an engine starter including a combustion chamber, discharge nozzle and ignition means, a supply of combustion supporting medium, a supply of engine fuel, a main fuel line connecting said supply with the combustion chamber, a pump in said line, a restriction in said line intermediate the pump and combustion chamber, a constant flow fuel regulator comprising a closed interior, a diaphragm dividing said interior, a bleeder line in communication with said fuel supply and one side of said regulator interior, a needle plunger mounted to one side of said diaphragm and in spring urged closed position in respect to said bleeder line, a fuel line joining the plunger containing side of the regulator to the main fuel line between said pump and restriction, a fuel line joining the remaining side of the regulator to the main fuel line between said restriction and combustion chamber, a conduit joining the supply of combustion supporting medium to said combustion chamber, a flow control valve interposed in the conduit, said valve comprising means responsive to pressure within the combustion chamber for regulating the ratio of fuel to combustion supporting medium, a turbine rotatable by the efflux from said nozzle and speed responsive means for moving said turbine into and out of drive engagement with said engine.

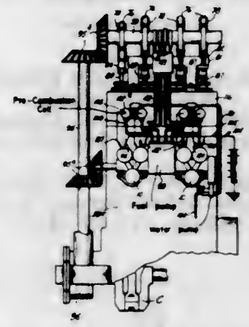
2,611,240

EXTERNAL-COMBUSTION ENGINE WITH WATER INJECTION

Lawrence B. Patterson, Meadville, Pa.

Application May 11, 1948, Serial No. 26,466
6 Claims. (Cl. 60—39.26)

6. An engine of the class described comprising a cylinder, a piston in said cylinder, a combustion chamber, a water injection means, a water spraying means for spraying water into said chamber, a valve for regulating the spraying of water from said spraying means, a diaphragm for actuating said valve, a fluid pressure means for actuating said diaphragm, a pulsator for maintaining flow of fluid through said fluid pressure means, an exhaust gas receiving manifold for said cylinder, a temperature controlled means communicating with said manifold for receiving heat therefrom for partly cutting off the flow of



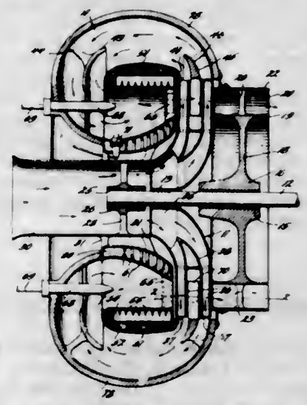
fluid through a portion of said fluid pressure means when the temperature of the exhaust gases reaches a predetermined degree within said manifold and to direct the pressure of the fluid to said diaphragm for operating said valve, said valve having a head, said head having longitudinal tapering channels constituting spray regulating means to vary the volume of spray in proportion to the degree of opening of said valve.

2,611,241

POWER PLANT COMPRISING A TOROIDAL COMBUSTION CHAMBER AND AN AXIAL FLOW GAS TURBINE WITH BLADE COOLING PASSAGES THEREIN FORMING A CENTRIFUGAL AIR COMPRESSOR

Theodore R. Schulz, Sylvania, Ohio, assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

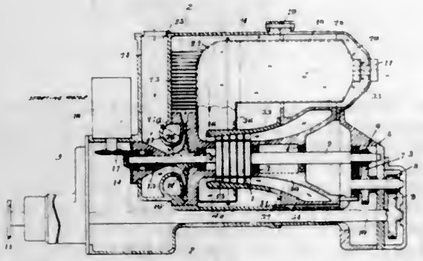
Application March 19, 1946, Serial No. 655,565
9 Claims. (Cl. 60—39.36)



6. In a gas turbine, the combination with a generally toroidal combustion chamber having an annular air inlet, of an impeller supported for rotation on the generating axis of the toroid, said impeller comprising hollow, radiating blades having air inlet openings adjacent the inner ends thereof, the outer ends of said blades communi-

cating with said chamber inlet, whereby air passing through said hollow blades is discharged into said chamber inlet and caused to flow within said chamber in a generally helical path about the chamber wall, and fuel combustion means in said chamber, said chamber being provided with an annular outlet for directing the combustion gases toward said impeller and against the external surfaces of said blades, whereby said impeller is rotated by the discharging gases.

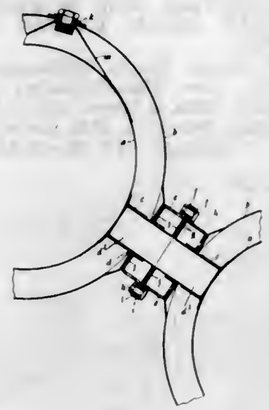
2,611,242
INTERNAL-COMBUSTION ENGINE WITH REGENERATOR
Francis Robert Bell, Solihull, England, assignor to The Rover Company Limited, Solihull, England
Application January 13, 1948, Serial No. 2,111
In Great Britain January 20, 1947
1 Claim. (Cl. 60—39.51)



A power unit comprising in combination a turbine having a gas inlet at one end and an exhaust passage at the opposite end, a turbo blower arranged at the inlet end of and coaxially with the turbine, an air inlet passage leading to the blower, a combustion chamber situated alongside the turbine and communicating at one end by a duct with the inlet end of the turbine, a pair of heat exchangers arranged along opposite sides of the duct and along part of the length of the combustion chamber and forming separate narrow air and gas passages through which air from the blower and gas from the turbine can flow in opposite directions respectively, the air passages being in communication at opposite ends respectively with the blower and the end of the combustion chamber remote from the blower, and the ends of the gas passages remote from the blower being in communication with the exhaust passage of the turbine, a gas outlet communicating with the other ends of the gas passages, and a housing enclosing the turbine, turbo-blower, and heat exchangers, the air inlet passage, the exhaust passage, and the gas outlet being formed at least in part by the housing.

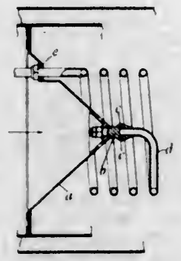
2,611,243
COMBUSTION CHAMBER FOR PRIME MOVERS
Alfred Huyton, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application January 7, 1946, Serial No. 639,630
In Great Britain September 1, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires September 1, 1964
4 Claims. (Cl. 60—39.69)

1. A prime mover having in combination a plurality of combustion chambers arranged around a common axis, air jackets in which the combustion chambers are mounted, hollow bosses on the combustion chambers and air jackets, two-part balancing pipes establishing lateral communication between adjacent combustion chambers, each part of said two-part pipes being arranged to pass through one of the hollow bosses on the adjacent air jacket and into one of the hollow bosses on the corresponding combustion



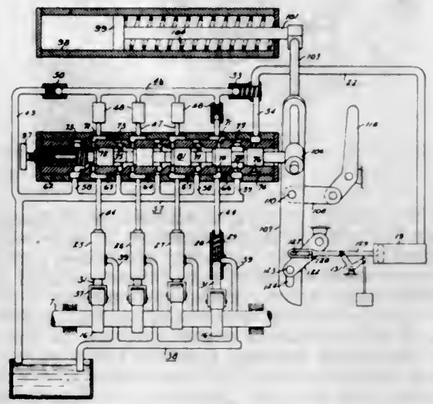
chamber, so that the balancing pipes serve also at least in part to support the combustion chambers within their air jackets, flanges on adjacent ends of the balancing pipe parts, and means securing said flanges together.

2,611,244
LIQUID FUEL VAPORIZER AND BURNER
John Stanley Clarke, Blacko, near Nelson, Albert Edward Clarke, Brierfield, Burnley, and Noel Parker Coupe, Burnley, England, assignors to Joseph Lucas Limited, Birmingham, England
Application December 27, 1949, Serial No. 135,082
In Great Britain January 1, 1949
3 Claims. (Cl. 60—39.71)



1. A liquid fuel burner comprising in combination a hollow base piece having a convex outer surface and provided with perforations through which air can flow, a multi-orificed nozzle attached to the crown of the base piece for discharging streams of vaporised fuel into the region adjacent to the convex outer surface of the base piece, and at least one helically coiled vaporising tube for conducting fuel to the nozzle, the vaporising tube being situated outside the base piece and connected to the nozzle.

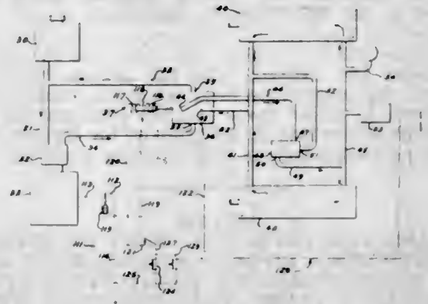
2,611,245
PUMP AND MOTOR HYDRAULIC SYSTEM AND REGULATING APPARATUS THEREFOR
Walter F. Strehlow, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 19, 1948, Serial No. 27,928
23 Claims. (Cl. 60—52)



1. In a hydraulic apparatus including a source of fluid, a plurality of pumps, means defining a valve chamber receiving fluid from said pumps, and a return passage means placing said valve chamber in communication with said source, a hydraulic motor connected with said valve chamber through a working fluid passage means including a one-way valve admitting fluid to said motor, and including a valve in said chamber selectively positionable to connect one or more of said pumps in pressure maintaining relation with said working fluid passage means and the remaining pumps, if any, with said return passage means, the combination of an unloading control comprising means responsive to a power stroke of said hydraulic motor and operatively connected with said control valve so that as said hydraulic motor completes its said power stroke said valve is moved to a position wherein only one of said pumps is delivering fluid to said working fluid passage means.

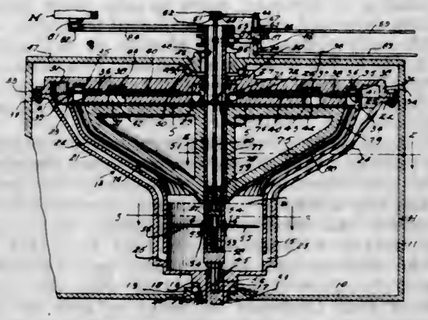
20. In a hydraulic apparatus including a pump means, a source of fluid communicating with said pump means, a valve housing having a valve chamber therein receiving fluid from said pump means, a fluid return passage means placing said valve chamber in communication with said source, a pressure fluid discharge passage communicating with said valve chamber, a control valve in said chamber selectively positionable to connect said fluid return passage means and discharge passage jointly and severally with said valve chamber, a first check valve disposed to control the flow of fluid from said valve chamber into said discharge passage, and a second check valve disposed in said discharge passage in downstream remote relation to said first check valve to provide a pressure fluid accumulating space therebetween.

2,611,246
PUMP AND MOTOR HYDRAULIC SYSTEM AND ELECTRICAL CONTROL CIRCUITS THEREFOR
Joseph A. Ackermann, Cleveland Heights, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a corporation of Ohio
Application April 28, 1950, Serial No. 158,814
3 Claims. (Cl. 60—52)



1. In a hydraulically operated mechanism having a double-acting hydraulic cylinder and an electric motor powered pump and a fluid reversing valve for reversing the direction of fluid flow with respect to the cylinder, an electrical control system comprising a solenoid operated motor switch in series with the motor and the source of electrical power therefor; solenoid means for operating the fluid reversing valve, said means comprising an armature mechanically linked to said valve and two connected coils for moving said armature to each of two operating positions for the valve; and an electrical circuit immediately connected to the electrical power source, said circuit comprising in series a solenoid coil to close said motor switch and a work stroke control branch and a return stroke control branch, said branches being connected to said power source, in parallel relation to each other, said work stroke control branch including in series one coil of said solenoid means and a work stroke control switch, said return stroke control branch including in series the second coil of said solenoid means and a return stroke control switch.

2,611,247
ROTARY TURBINE-TYPE HYDRAULIC COUPLING
Robert H. Brown, Pulaski, Tenn.
Application January 9, 1950, Serial No. 137,629
3 Claims. (Cl. 60—54)



1. In a hydraulic coupling, a hollow driven member open at its top end, a driving member within said driven member, said members being rotatable about a common axis, a wall of the

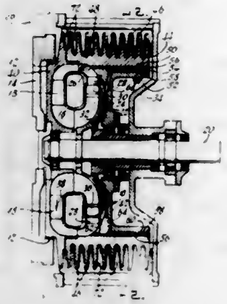
driven member extending substantially parallel to a wall of the driving member, a plurality of vanes on each of said walls, the vanes on one of said walls being disposed opposite to the vanes on the other wall, the driven member having its lower end formed to provide a concentrically disposed fluid reservoir, a removable cover on the open top of said driven member, a hollow shaft extending rotatably through the cover and the driven member, the driving member being secured to the hollow shaft, adjustable means attached to the hollow shaft and extending into the reservoir for urging the fluid into the space between the driving and the driven member, means for urging the fluid actuating means into position to allow them to slide through the oil without disturbing it, and means for forcing the fluid actuating means into working position.

2,611,248

MEANS FOR EFFECTING HEAT EXCHANGE BETWEEN A ROTATING SOLID BODY AND A GASEOUS MEDIUM, PARTICULARLY FOR COOLING FLUID TRANSMISSIONS WITH ROTATING CASINGS

Karl Gustav Åhlén, Stockholm, and Tor Axel Ödman, Saltsjo-Duvnas, Sweden, assignors to Svenska Rotor Maskiner Aktiebolag, a corporation of Sweden

Application May 16, 1951, Serial No. 226,581
In Sweden June 11, 1947
30 Claims. (Cl. 60—54)



15. Apparatus comprising a rotatably mounted body having a plurality of relatively deep and narrow circular open channels concentric with the axis of rotation of the body, rotationally stationary structure providing cover means for said channels, a plurality of peripherally spaced rotationally stationary obturating baffles extending into said channels for subdividing the same into a plurality of sections, ports in said cover means opening into said channels adjacent to and on the peripherally opposite sides of each of said baffles and guide baffles extending into said channels and terminating short of the bottoms thereof for guiding fluid flowing through at least certain of said ports.

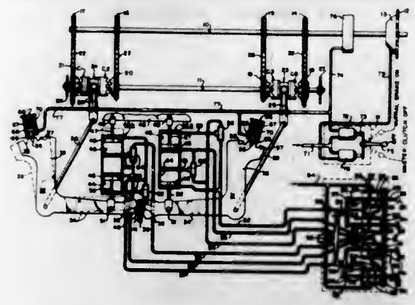
26. Apparatus comprising a rotatably mounted body having a plurality of circular open channels concentric with the axis of rotation of the body, rotationally stationary structure providing cover means for said channels, rotationally stationary baffle means extending into said channels to provide obstructions therein and port openings in said structure communicating with the open faces of said channels adjacent to and on the opposite sides of said baffle means for flow of fluid into said channels on one side of said baffle means and out of said channels on the other side of said baffle means.

2,611,249

SELECTOR CONTROL SYSTEM

Albert A. Ashton, Houston, Tex., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a corporation of California

Application November 14, 1949, Serial No. 127,231
6 Claims. (Cl. 60—97)



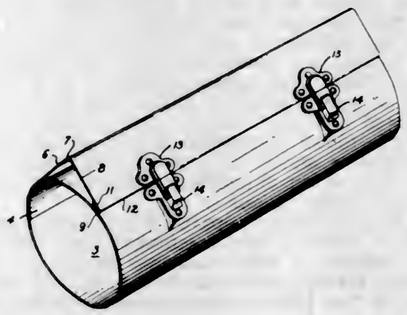
3. In a fluid operated selective control means: a pair of fluid cylinders connected in end-to-end relation containing operatively associated pistons having connected piston rods extending from the opposite ends of the connected cylinders; a first fluid supply conduit connected to first selected ends of said cylinders the connection to one of said ends being through a double check valve; a second fluid supply conduit connected to the remaining ends of said cylinders, the connection to one of said ends being through a double check valve; a third fluid supply conduit connected through said double check valves with one of said first selected ends of said cylinders and one of said remaining ends of said cylinders; and manually operable valve means for selectively connecting a fluid pressure supply with said supply conduits.

2,611,250

FOOD MOLDING DEVICE

Albert R. Rodacker, Chico, Calif.

Application April 26, 1949, Serial No. 89,704
7 Claims. (Cl. 62—1)



1. A food molding device comprising, an elongated sheet of coiled spring material forming an open-ended cylinder, the outermost coil of said sheet extended from said cylinder and formed with a bend at an angle reentrant with respect to said cylinder to contact said cylinder tangentially of the outer surface thereof, and interlocking members associated with said extended portion and the body of said cylinder to lock removably the end of said extended portion of said sheet to the cylinder.

2,611,251

NONPIERCING EARRING

Julius Guth, Rockville Centre, N. Y., assignor to Sloan & Company, New York, N. Y., a corporation of New Jersey

Application December 23, 1950, Serial No. 202,457
1 Claim. (Cl. 63—14)



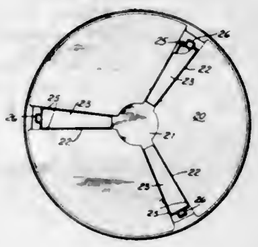
An article of jewelry comprising substantially semicircular arms having inner and outer ends, the inner end portions of said arms being hollow and forming longitudinally extending pockets open at their outer ends, one arm having its inner end portion externally reduced and forming a sleeve rotatably fitting into the pocket of the other arm, said sleeve being formed in opposed portions with circumferentially extending slots, pins passing transversely through said arms and through inner end portions of the pockets, a helical spring extending longitudinally in said pockets and anchored at its ends to said pins, a pin mounted transversely through the interfitting portions of said arms and passing through said slots and between convolutions of said spring and preventing separation of the arms and also limiting turning movement of the second arm about the sleeve, and heads at outer ends of said arms disposed for abutting side by side engagement with each other.

2,611,252

GRAPEFRUIT DISH

David D. Griffin, Richmond, Calif.

Application December 31, 1948, Serial No. 68,481
2 Claims. (Cl. 65—15)



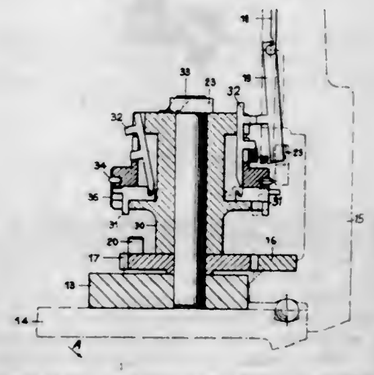
1. A table accessory for holding semi-spherical portions of grapefruit or the like comprising a relatively flat plate, the central portion of which is recessed to provide a circular rim for engaging the skin of said grapefruit and equally spaced radial portions of which are recessed to communicate with said central portion, and a plurality of spring pressed jaws pivotally mounted in said radial recesses and extending inwardly toward said central recess.

2,611,253

PATTERN DEVICE FOR CIRCULAR KNITTING MACHINES

Hans Diem, Neuchatel, Switzerland, assignor to Edouard Dubied & Cie, Societe Anonyme, Neuchatel, Switzerland

Application June 9, 1947, Serial No. 753,515
In Germany February 15, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 15, 1963
8 Claims. (Cl. 66—50)



1. A pattern mechanism for controlling the needles of a circular knitting machine of the class described and including a plurality of partial pattern mechanisms continuously operated by gear means, each mechanism being associated with a feeder or working station, comprising a single pattern tape, a base, a pattern wheel for each said feeder or station pivoted on said base, a plurality of selectors mounted radially and longitudinally displaceable in each pattern wheel, means for moving the said selectors in sequence into an inoperative, an initial, and an operative or working position respectively, according to the pattern punched into the said pattern tape, means for holding each said position during at least one revolution of the respective pattern wheel to permit of correspondingly and continuously controlling the needles on the rotary cylindrical needle bed of the machine until the said pattern tape will bring about another operative position of said selectors.

2,611,254

CANDLE

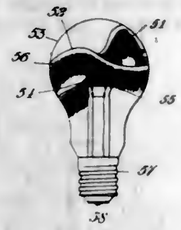
William B. Byrnes, Dalton, Mass.

Application July 8, 1949, Serial No. 103,589
1 Claim. (Cl. 67—22.5)



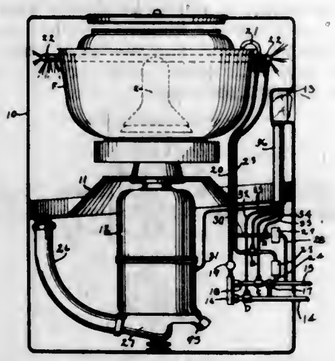
A decorative candle having a comparatively flat wax body in the form of a character selected from the group consisting of the numerals and the letters of the alphabet; a centrally-disposed, upstanding, elongated, flat wick embedded therein with one lateral, marginal edge of said wick exposed on the top of said candle and forming a substantially uninterrupted outline of said character; and drip-catching means comprising a sheet of metal foil having a reflective upper surface and conforming generally in outline to the outline of the base of said character but projecting laterally beyond said base; and means securing said foil to said base.

2,611,255
FLASHBULB
Jacob Poelma and Clamor August Lamberts, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application February 17, 1949, Serial No. 77,036
In the Netherlands March 4, 1948
8 Claims. (Cl. 67—31)



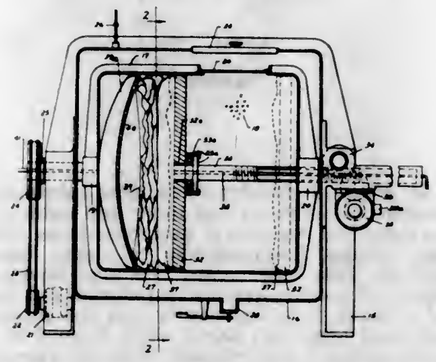
3. A flash-lamp comprising a bulb, a filling gas in said bulb, and an actinically reactive metal in said bulb, said actinically reactive metal comprising a body of metal foil having a thickness of not more than approximately 100/u and a plurality of cuts therein spaced at distances between adjacent cuts of not more than approximately 100/u, said cuts being discontinuous in and dispersed over the surface of said metal foil body to so separate a plurality of strips formed of said metal foil each of which said strips is connected to an adjacent one at one or more points along the lengths thereof, said metal foil body being deformed whereby the distances between adjacent ones of said strips are increased.

2,611,256
CLOTHES-WASHING MACHINE
Robert R. Candor, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application March 15, 1946, Serial No. 654,586
3 Claims. (Cl. 68—12)



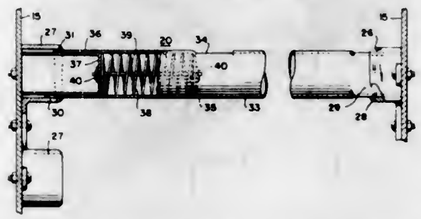
1. A washing machine comprising: a rotatable tub adapted to contain articles to be washed, detergent and water; agitating means in said tub; power means selectively to agitate said agitating means and to rotate said tub; water supply means for said tub; a sump and pump to receive and forcibly discharge liquid centrifugally extracted from said tub during rotation thereof; a timer controlling the operation of said power means and pump sequentially to control respectively introduction of water into said tub, agitation of said agitating means, rotation of said tub with operation of said pump and to stop operation of said washing machine with a residual amount of water in said pump, and means controlled by said timer to introduce disinfectant into said residual amount of water.

2,611,257
COMBINED WASHING AND SQUEEZE DRYING MACHINE
Leo M. Kahn, Island Park, N. Y.
Application July 28, 1945, Serial No. 607,587
11 Claims. (Cl. 68—21)



1. In a washing and drying apparatus including a washing drum having perforations formed therein, means to express wash water from a mass of washed articles in said washing drum, said means comprising a pair of fluid operated members laterally enclosing said mass of washed articles, first pressure means for bodily advancing one of said fluid operated members within the drum and toward the other member so as to embrace said mass and second pressure means operative after said mass has been embraced by the action of said first pressure means, said second pressure means operating to apply fluid under pressure to at least one of said fluid operated members, said fluid under pressure exerting a considerably higher force than said first pressure means so as to express the wash water from said mass.

2,611,258
DYEING APPARATUS
George V. Greaves, Elkins Park, Pa.
Application December 24, 1947, Serial No. 793,692
2 Claims. (Cl. 68—199)



1. In dyeing apparatus, a yarn stick comprising a hollow elongated tubular body, and means for removably mounting said stick comprising fixedly spaced sockets having interior openings for the reception of and engagement with the ends of said tubular body, a stop member at the outer end of each of said sockets, the body of the stick at one end engaging one of said sockets and the stop member at that end and the body of the stick at the other end engaging the socket at that end

whereby the load on said body is transferred directly to said sockets, a slidable holding member in telescoping relation to the body at said other end and having an outer terminus in engagement with the stop member at that end and an inner terminus providing an abutment, and a spring in engagement with said abutment for urging said slidable member into engagement with said stop member.

2,611,259
COMBINATION LOCK
George E. Berry and Gordon C. Ridings, Washington, D. C.
Application September 12, 1949, Serial No. 115,142
8 Claims. (Cl. 70—284)



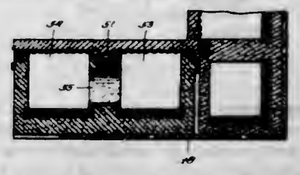
2. In a combination lock, a housing, a lock bolt shiftable between locking and open positions on said housing, a plurality of rotatable tumblers having edge gates therein and means including a hand operable dial for rotating the tumblers to present all tumbler edge gates in alignment, a plate having pin and slot connection with said bolt and a lug projecting therefrom in position to be receivable in the aligned tumbler edge gates, means for mounting said plate for oscillatory movement about the axis of the tumblers and for radial movement relative to said axis, spring means normally effective to position said plate with the lug out of contact with the periphery of the tumblers, and means for shifting the plate to cause the lug to engage in said aligned tumbler edge gates whereby upon rotation of the tumblers by manipulation of the dial movement may be imparted to said plate effective to shift said lock bolt.

2,611,260
KEY CASE
Fernando A. Pontin, Yakima, Wash.
Application March 9, 1950, Serial No. 148,575
4 Claims. (Cl. 70—456)



1. In a key case, the combination of two inner plates, two intermediate plates, and two outer plates disposed in spaced juxtaposed relation and affording key receiving compartments in the respective spaces betwgeen the inner plates and between the inner and intermediate plates, combined fulcrum and fastening element extending transversely through said plates and adapted to have keys mounted thereon for swinging movement in and out of the respective compartments, a pivot element extending transversely through said plates, a key projecting member in each compartment swingably mounted on said pivot element, a second fastening element extending transversely through the plates, a spacer on said second element between said inner plates, relatively weak compression springs on said second element between the inner and the intermediate plates, and relatively strong compression springs on said second element between the intermediate and the outer plates, whereby the intermediate and the inner plates are urged toward said spacer for frictionally retaining keys in said compartments.

2,611,261
BUILDING BLOCK CONSTRUCTION
Edwin L. Preston, River Forest, Ill.
Application March 16, 1948, Serial No. 15,161
4 Claims. (Cl. 72—42)



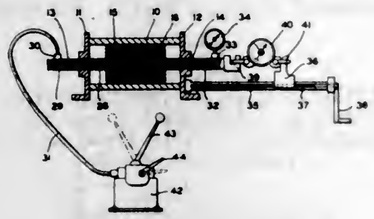
1. In a generally rectangular building block having a front, sides, and rear comprising a cementitious front and sides, the rear ends of the sides having an inclined undercut, and a metal plate constituting the rear of said block, said metal plate having means for removable attachment to the rear of said block, said metal plate being perforated to receive inner wall plaster, said means including forwardly extending flanges, said forwardly extending flanges overlying the inclined undercuts of the sides of the block, whereby plaster applied to the perforated metal back wall fills the space between the inclined undercut and the metal plate flanges and the setting of the plaster locks the back wall in fixed position.

2,611,262
REINFORCING ROD CONNECTION IN BLOCK WALLS
Glenn R. Dodson and Leon A. Dodson, Wichita, Kans.
Application October 21, 1949, Serial No. 122,702
1 Claim. (Cl. 72—42)



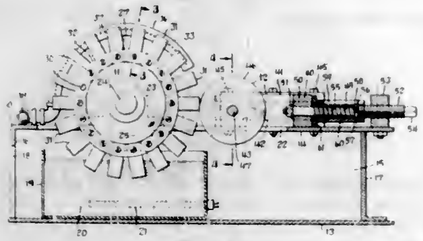
In a building wall assembly comprising building units, means for securing adjoining assemblies of the building units together under tension and for regulating the tension applied to such assemblies, said means comprising horizontally aligned rods extending through the units of the adjoining assemblies, said rods having their adjacent ends threaded, clamping plates bearing on the adjacent units of the adjoining assemblies, said rod ends extending through said clamping plates, nuts threaded on the ends of the rods and bearing on said plates, said nuts being tightened and placing said rods under tension, a cross plate disposed intermediate said clamping plates, said cross plate being rigidly affixed to one clamping plate and spaced from both said clamping plates, the rod extending through the other clamping plate also extending through the cross plate, and a nut threaded on said last mentioned rod end and bearing on the cross plate, the last said nut being tightened against said cross plate and regulating the tension applied to the adjoining assemblies.

2,611,263
APPARATUS FOR TESTING PACKING MATERIALS
Raymond W. Justice, Youngstown, Ohio
Application October 13, 1949, Serial No. 121,187
6 Claims. (Cl. 73—9)



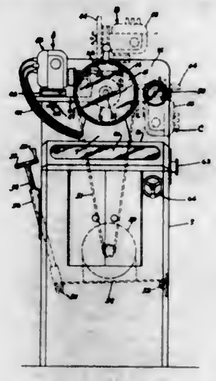
1. In apparatus for measuring the frictional resistance to sliding movement of piston-type of packings comprising in combination a cylinder, a piston slidable in said cylinder and having an outwardly extending piston rod, a pulling device adapted to be moved outwardly along the axis of said rod, a dynamometer interconnecting said pulling device and said rod and operative to measure the force required to move said rod and piston, said piston having an annular recess to receive a packing ring assembly to be tested, fluid passages in said piston to conduct fluid under pressure to one axial face of said packing ring assembly, and means to conduct fluid under pressure into said passages.

2,611,264
METALLURGICAL APPARATUS FOR TREATING TEST SPECIMENS
Henry G. Keshian, Waterbury, Conn.
Application September 30, 1949, Serial No. 118,987
9 Claims. (Cl. 73—15.6)



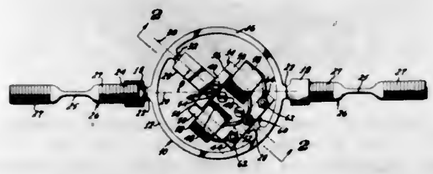
2. Specimen-testing apparatus for repeatedly subjecting a plurality of hard metal test-specimens to temperature variations and pressure, said apparatus comprising in combination: a base; an endless carrier mounted on said base constructed and arranged to support a plurality of hard metal test-specimens; means arranged to heat said test-specimens during a portion of their travel cycle; means arranged to cool said test-specimens during another portion of their travel cycle; means on said base arranged to apply stress to said test-specimens during still another portion of their travel cycle; and drive-means arranged to continuously move said carrier to carry said test-specimens repeatedly into engagement successively with said heating-means, said stress-applying means and said cooling-means.

2,611,265
MAGNETO TESTER
Harry E. Latourelle, Minneapolis, Minn., assignor to Reinhard Brothers Company, Minneapolis, Minn., a corporation of Minnesota
Application February 9, 1948, Serial No. 7,221
6 Claims. (Cl. 73—118)



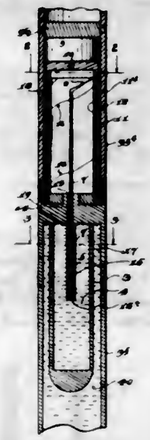
1. The combination with a magneto tester having means embodied therein for indicating the various operating characteristics of a magneto, of a housing having opposed cylindrical bearing surfaces, fixed bearing elements rotatably receiving said bearing surfaces whereby the housing may be rotatably adjusted in said bearing elements, means for securing the housing in adjusted position, a power shaft in said housing having means at one end for connecting it to a source of power, a driven shaft also mounted in said housing and having a driving connection with said power shaft, a laterally extending arm on said housing disposed in substantially parallel relation to said driven shaft, and means on said arm for adjustably securing a magneto in position thereon with its shaft drivingly connected to said driven shaft, and whereby the magneto may be driven from the power shaft, thereby to test the operating characteristics of the magneto, the adjustable mounting of said housing permitting the magneto to be mounted in the apparatus in its normal operating position.

2,611,266
FORCE GAUGE
Thomas H. Wiancko, Altadena, Calif., assignor to Wiancko Engineering Company, a corporation of California
Application April 29, 1948, Serial No. 23,900
11 Claims. (Cl. 73—141)



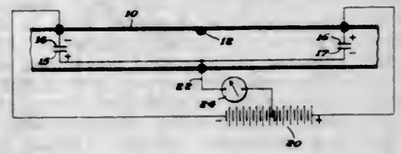
1. A force gauge comprising a ring, attachment means located on said ring at points at opposite ends of one diameter of said ring whereby said ring is deformed in response to a force acting therebetween, a pair of arms extending inwardly from the ring from points at opposite ends of a second diameter forming an oblique angle with said first diameter, said angle being substantially different from 90°, the free ends of said arms being deflected in opposite directions transverse to said second diameter upon change in the amount of such force applied to the ring, and displacement sensing means responsive to changes in the relative displacement of said arms in a direction transverse to said second diameter for measuring changes in such force.

2,611,267
PRESSURE GAUGE FOR SAND FORMATION TESTERS
Harry Pennington, San Antonio, Tex.
Application October 6, 1944, Serial No. 557,530
1 Claim. (Cl. 73—151)



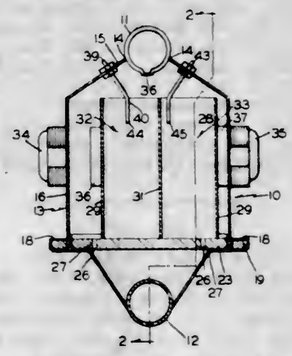
A pressure gauge for measuring formation pressures in wells and the like comprising in combination a cylindrical housing enclosing a pressure test chamber adapted to receive a fluid whose pressure is to be measured and an instrument chamber, a fluid-tight partition separating said chambers, a plunger rod passing through a straight bore in said partition and making a fluid-tight sliding fit with said bore, means for preventing rotation of the plunger rod in said bore, said bore passing straight through said partition and forming a guide for said plunger rod, a stylus mounted on the end of said plunger rod which is in the instrument chamber, a rotatably mounted cylindrical chart mounted longitudinally in said instrument chamber, the said stylus being mounted so as to inscribe a record of pressure on said chart, means for slowly rotating said chart, a cylindrical metal pressure tube mounted longitudinally in said test chamber with one end closed and the other end mounted on and closed by said partition to form a fluid tight pressure chamber therein, said fluid tight chamber being completely filled with liquid and being in communication with said bore and through the bore with the free end of said plunger rod, the resilient cylindrical metal wall of said pressure tube extending into said test chamber and being sufficiently strong to withstand full formation pressure without flexing and to respond to formation pressure changes resiliently in accordance with Young's modulus of elasticity, the pressure-induced volume changes producing a corresponding change in the position of the plunger rod in said bore, whereby a pressure-time record of the pressure in said test chamber is obtained.

2,611,268
VELOCITY METERING OF GAS FLOW
Glenn L. Mellen, Framingham Center, Mass., assignor to National Research Corporation, Boston, Mass., a corporation of Massachusetts
Application June 2, 1947, Serial No. 751,768
6 Claims. (Cl. 73—194)



1. A meter for determining the speed of relative movement between an object and a gas, said meter comprising a source of ionizing agent activity for creating a zone of ionization in said gas in the path of said movement, a first set of electrodes spaced from said source longitudinally along said object with respect to said path of movement, a second set of electrodes spaced from said source longitudinally along said object with respect to said path and on the opposite side of said source from said first set, said electrodes of each set extending into said zone of ionization and forming ion collectors, a source of potential for creating electric fields, transversely of said path of movement, between the electrodes of each set, said electric fields being of a strength sufficient to collect substantially all the ions, passing between the electrodes of a set, which are produced in said gas by said source, and metering means responsive to the rates of ion collection at said two sets of electrodes for indicating the variation in the relative rates of ion collection at said two sets of electrodes caused by relative movement between said gas and said object, said metering means being electrically connected to said two sets of electrodes so as to compare the ion currents collected by said two sets of electrodes and being adjustable to give a substantially zero indication for no relative movement and having a substantially linear response within the operable range of said meter.

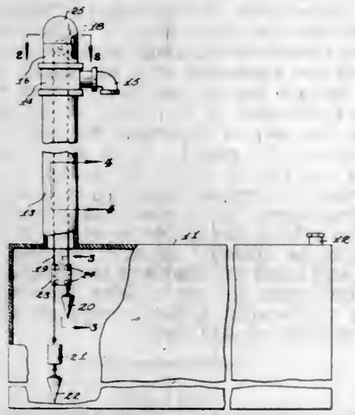
2,611,269
MAGNETICALLY ACTUATED MILK METERING DEVICE
William H. Harstick, Oak Park, and Harold W. Hein, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application December 22, 1949, Serial No. 134,494
8 Claims. (Cl. 73—219)



8. A liquid metering device comprising a casing having a liquid inlet port and a bottom wall pro-

vided with an outlet port; a hollow measuring chamber open at opposite ends supported for horizontal sliding movement on said bottom wall, said measuring chamber adapted to alternatively communicate with said inlet port and be filled with a predetermined volume of liquid in one position and to slide to a second position wherein communication with said inlet port ceases and communication with said outlet port is established to drain said measuring chamber; and an electromagnet for moving said measuring chamber from said one position to said second position; electric circuit means for said electromagnet, said electric circuit means being conditionable incident to a predetermined volume of liquid in said measuring chamber for conducting electrical energy to said electromagnet; and indicating means for tabulating the number of times said electric circuit means are conditioned for conducting electrical energy, said indicating means being electrically connected to said electric circuit means.

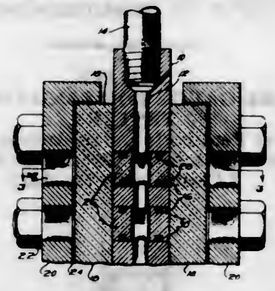
2,611,270
AUTOMATIC FUEL GAUGE
Clinton Sciford, Odebolt, Iowa
Application June 19, 1951, Serial No. 232,336
1 Claim. (Cl. 73—321)



In a tank, a gauge comprising a vertical tube secured to the top wall of the tank and communicating therewith, a roller journaled in the top end of said tube, a calibrated flexible band disposed over said roller, respective weights secured to the ends of said band, a float secured to one of said ends, said one of the ends depending into the tank and said float being arranged to move upwardly and downwardly in response to changes in level of liquid in the tank, a sleeve member slidably engaged around the depending end portions of said band and supported on one of said weights, and spacer means secured in the sleeve member between said depending portions of said band and arranged to maintain said depending end portions in spaced parallel relationship.

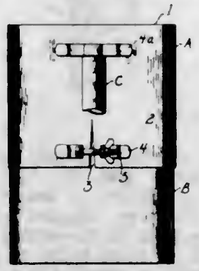
2,611,271
LIQUID LEVEL GAUGE
Ernest E. van Ham, Somerville, Mass., assignor to Jerguson Gage & Valve Company, Somerville, Mass., a corporation of Massachusetts
Application April 21, 1950, Serial No. 157,229
4 Claims. (Cl. 73—331)

4. A liquid container having an opening in its wall to provide for direct inspection of the interior, a transparent member fitting said opening, a glass overlying said member and a portion of the exterior face of the container and means for securing said glass in position to retain the transparent member from outward dis-



placement from said opening and a packing for said member interposed between its periphery and the encircling wall of the opening which receives the same and located between the inner and outer faces of the member.

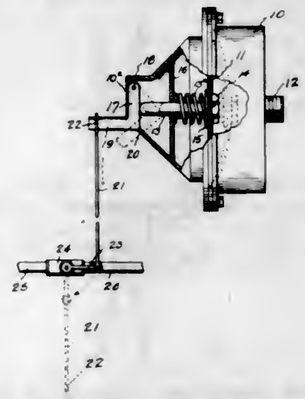
2,611,272
VARIABLE CAPACITY CONTAINER
Väinö Kustaa Jalkanen, Viitasaari, Finland
Application October 15, 1949, Serial No. 121,489
In Finland July 27, 1949
1 Claim. (Cl. 73—429)



A two-part telescoping container the capacity of which may be regulated from zero capacity to a capacity equal to the sum of the interior volumes of the two telescopic elements, which comprises: two concentric cylindrical elements, one tightly fitting within and capable of being telescoped with reference to said other, said telescopic cylindrical elements being slidable longitudinally with respect to each other to adjust the capacity of said container, said inner cylindrical element being provided with a bottom which is movable toward and away from the outer edge of said outer cylindrical element as the capacity of said container is adjusted by telescopic movement of said inner cylindrical element with respect to said outer cylindrical element, said inner cylindrical element being capable of sliding within said outer cylindrical element both when said bottom is so positioned uppermost as to permit of said bottom being slid up to a position adjacent said outer edge of said outer cylindrical element, and when said bottom is positioned in its lowermost position wherein it can be slid only to a position which is spaced from said outer edge of said cylindrical element by a distance equal to the height of said inner cylindrical element, said outer cylindrical element being provided with a longitudinally extending contractible slot beginning at its inner edge portion and extending upwardly toward said outer edge, and

means for drawing the edges of said contractible slot toward each other whereby to tightly secure said outer cylindrical element with respect to said inner cylindrical element in an adjusted position, said means for drawing the edges of said contractible slot toward each other comprising a pair of apertured ears, one secured to said outer cylindrical element on each side of said contractible slot, a headed screw-threaded bolt extending through said apertures, and a nut travelling on said bolt and acting, when screwed toward the head of said bolt, to draw said edges toward each other.

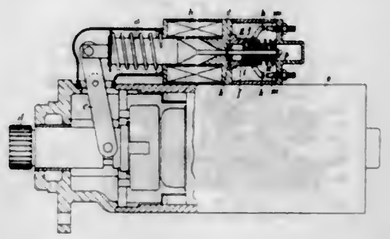
2,611,273
AUTOMATIC LOW WATER GAS SHUTOFF
Ray C. Possley, Mendota, Ill.
Application April 6, 1945, Serial No. 586,960
1 Claim. (Cl. 74—2)



A bell crank actuating means comprising a casing, a vertical abutment wall carried by said casing, an angle lever pivotally secured at one end to said casing adjacent the abutment wall and having a substantially vertical portion adapted to abut said abutment wall for the full length of the substantially vertical portion to limit the swing of said lever in one direction, said lever having a protruding end, a releasable link having an eye removably fitted over said protruding end, said protruding end normally extending in a substantially horizontal position beyond said abutment wall and said link being adapted to be releasably suspended by said protruding end, an abutment pin frictionally engaging said vertical portion of said lever for holding said vertical portion in a set clamped position against said abutment wall, and an actuating means for said pin for releasing the pin from engagement with the lever to facilitate the swinging of the horizontal portion of the lever downwardly and to thereby automatically release said releasable link from said lever and to cause said link to fall of its own weight from said protruding end of said lever by the pull of gravity.

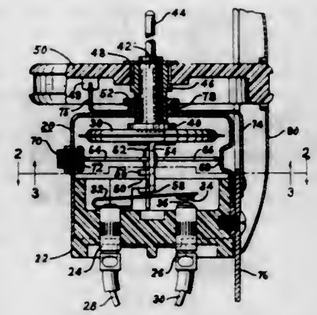
2,611,274
ELECTRIC STARTING MOTOR FOR INTERNAL-COMBUSTION ENGINES
Ernest Harry Charles Thorpe, Kew Gardens, England, assignor to C. A. V. Limited, London, England
Application October 25, 1949, Serial No. 123,347
In Great Britain October 25, 1948
2 Claims. (Cl. 74—7)

1. An electric engine-starting mechanism comprising in combination an electric motor, a pinion rotatable by the motor and capable of axial sliding movement, an electromagnet having a movable part, means for transmitting sliding movement to the pinion from the movable part



of the electromagnet, a switch for controlling the supply of electric current to the motor, and spring means arranged to be energised by the movable part of the electromagnet, and thereafter to close the switch.

2,611,275
ELECTRICAL APPARATUS
James W. Jacobs, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application April 6, 1950, Serial No. 154,343
15 Claims. (Cl. 74—100)

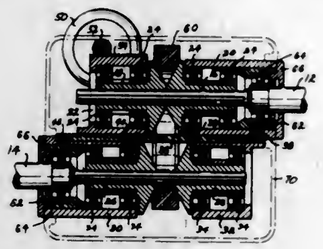


1. A control arrangement including a support means, a control means and an actuating means operably connected together and mounted upon the support means, an adjusting screw threaded into the support means, said adjusting screw having a pair of spaced annular shoulders, said actuating means being provided with a projection extending in between said spaced annular shoulders for limiting the operation of the control means.

2,611,276
POWER TRANSMISSION UNIT
Hans Felix Heynau, Hollywood, Calif.
Application June 8, 1950, Serial No. 166,846
15 Claims. (Cl. 74—192)

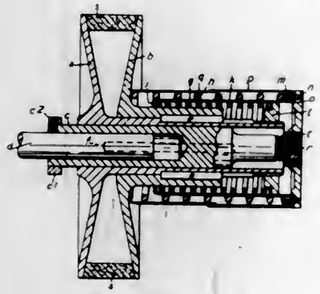
1. In a variable speed transmission; a drive shaft; a driven shaft extending parallel to the drive shaft; first cone means supported on said drive shaft; second cone means supported on said driven shaft; and a power transmitting means connecting said first and second cone means; each of said cone means comprising a pair of sleeves splined to its respective shaft and

having a beveled flange cooperating with said power transmitting means, a separate carrier for each of said sleeves, and a guide rail positioned



between the shafts and extending parallel thereto, said guide rail being connected to a pair of diagonally disposed carriers and forming a guide for the other carriers.

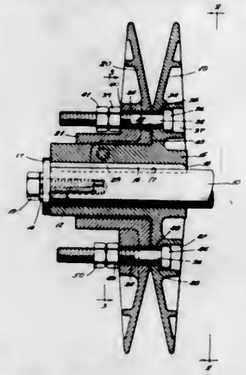
2,611,277
EXPANSIBLE PULLEY
James Mitchell, Marfleet, Hull, England, assignor to J. H. Fenner & Company Limited, Marfleet, Hull, England, a British company
Application April 24, 1950, Serial No. 157,809
In Great Britain April 25, 1949
4 Claims. (Cl. 74—230.17)



2. Expansible pulley for use in variable speed transmission of power comprising a pair of conical flanges having hub portions adapted to slide one upon the other, a pair of helical springs one disposed around the other, an equalizer cylinder disposed between said springs, said equalizer cylinder having one of its ends inwardly directed and the other outwardly directed, a collar adjustably mounted on the hub portion of one of said conical flanges and adapted to take the thrust of the inner one of said helical springs between the inwardly directed end of said equalizer and the hub portion of one of said conical flanges, while the outer one of said helical springs is so disposed as to exert its thrust between the other one of said conical flanges and the outwardly directed end of said equalizer, in combination with a sleeve member slidably mounted within the hub portions of said conical flanges, means for keying together such sleeve member and said hub portions while permitting relative axial movements between them, and an end cover with means for adjustably fixing it at one end of said sleeve member, and attaching it to said equalizer after said helical springs have been subjected to compression.

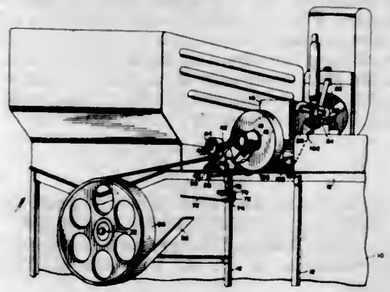
2,611,278
ADJUSTABLE PULLEY
Glen O. Turnbull, Rock Island, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 26, 1947, Serial No. 793,931
1 Claim. (Cl. 74—230.17)

An adjustable V-belt pulley comprising adjacent pulley side sections, each of said side sections having integral hubs, said hubs both extending laterally in the same direction, the first of said hubs having a shaft engaging opening and an external substantially triangular shape, the second of said hubs having an internal opening corresponding in shape to the external substantially triangular shape of the first hub, said second hub positioned over and around said first hub and permitting lateral sliding movement of the pulley side sections with respect to each other



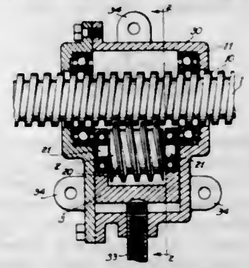
and causing concurrent rotation of the pulley side sections, bolt means passing through the adjacent pulley side sections spaced outwardly of said hubs for adjustably joining said adjacent pulley side sections in any desired lateral spacing, and set screws positioned in said second hub and passing therethrough to abutting engagement with the first hub whereby all relative rotative motion between the two hubs is eliminated.

2,611,279
POWER CONTROL FOR AGRICULTURAL MACHINES
Milford A. Bergsten, East Moline, and William E. Cade, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application March 31, 1951, Serial No. 218,672
8 Claims. (Cl. 74—242.1)



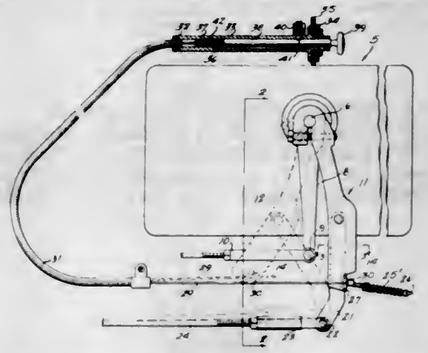
6. In an agricultural crop-handling machine, the combination of: a crop-handling body including supporting structure; variable speed power means on the body including a drive part; a speed-regulating device connected to the power means and having a control member movable selectively between a first position and a second position determinative respectively of slow and fast operation of the drive part; crop-handling mechanism carried by the body and including a driven part; selectively engageable and disengageable drive means between the drive and driven parts; drive-actuating means for actuating the drive means; means mounting the drive-actuating means on the body for selective shifting through a range including a first position, in which the drive means is disengaged, and a second position, in which said drive means is engaged; and means operatively connecting the control member of the speed-regulating device and the drive-actuating means for causing movement of the control member alternately to its first position or its second position respectively as incidents to shifting of the drive-actuating means to its first or second positions, said connecting means including a two-way, force-transmitting connection having provision for overtravel of the drive-actuating means in both directions beyond the range of shifting thereof required to change the position of the control member.

2,611,280
SCREW FEED MECHANISM
William A. Brinkhurst, Vancouver, British Columbia, Canada
Application July 3, 1948, Serial No. 36,842
10 Claims. (Cl. 74—424.8)



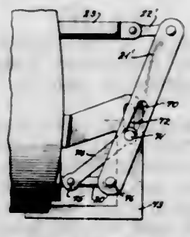
1. In combination with a screw-threaded shaft rotative normally in a single sense, a single rotative worm screw the threads whereof are complemental in pitch distance to those of the shaft, means mounting said worm screw for rotation about an axis parallel to the shaft's axis, and for displacement laterally towards and from the shaft's axis through an infinite number of positions, in all whereof the side faces of the threads of the worm screw and the shaft, respectively, are interengaged along tangent pitch circles, the combination being characterized in that the root and tip diameters of the threads of the shaft and of the worm screw, respectively, are such that the shaft and the worm screw are laterally relatively displaceable, while their threads remain interengaged and their rotation continues in the same sense, to opposite sides of that neutral position wherein the ratio of the respective pitch circles is 1:1, by displacement to one side of such neutral position to effect relative axial displacement in one sense, and by displacement to the opposite side thereof to effect relative axial displacement in the opposite sense; one of the shafts and the worm screw being resistant to axial displacement and the other being axially displaceable, and means to vary the spacing between the axes of the shaft and the worm screw to vary the ratio of their respective pitch circles, and thereby to vary accordingly the relative axial displacement of the shaft and the worm screw.

2,611,281
SHIFT DELAY
Harold W. Gray and Clarence I. Nicoson, San Luis Obispo, Calif.
Application February 3, 1950, Serial No. 142,116
2 Claims. (Cl. 74—472)



1. In an automotive power plant involving an engine having a throttle and operating linkage therefor, an automatic transmission having a shifting shaft and a shifting lever connected thereto and extending radially therefrom, means yieldably maintaining said shaft and lever in normal position in which the transmission shifts automatically in normal manner, said shifting lever comprising a first section having one end fixed on said shifting shaft, said first section having a portion adjacent the other end thereof of channel cross section, a second section extending longitudinally of and receivable within said channel portion of said first section and having one end pivotally connected to said channel portion, the other end of said second section being beyond and spaced from said other end of said first section and pivotally connected to said throttle linkage, an ear exteriorly of said first section adjacent the other end thereof, and manual means connected to said ear for moving said first section away from said second section.

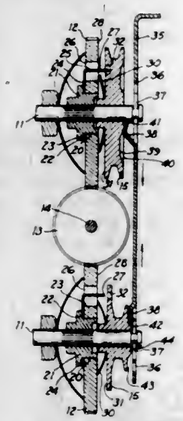
2,611,282
LINKAGE MEANS
Cooper Buck Bright, United States Navy
Original application May 8, 1946, Serial No. 668,054. Divided and this application September 13, 1949, Serial No. 115,522
7 Claims. (Cl. 74—518)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A mechanical linkage comprising: a lever having one end to which a varying force may be applied and another end to which a substantially constant force may be applied, a shiftable pivot intermediate the two ends aforesaid, and means for shifting said pivot to vary the mechanical advantage of the first end as the force thereon de-

creases, said mechanical linkage including pin, a slot extending axially of said lever, a support having a slot extending substantially in the average direction of said lever, said pin being mutually slidable in both slots to form said shiftable pivot, a constant force applying reciprocating rod connected to said other end of the lever, and a link pivotally connected to said rod and to said pivot pin for shifting said pivot.

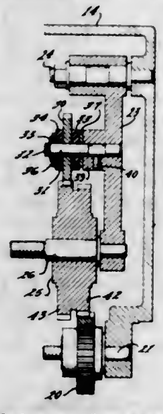
2,611,283
PLURAL PULLEY MECHANISM
Lee T. Askren and Robert J. Roman, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 27, 1950, Serial No. 170,496
6 Claims. (Cl. 74—665)



2. In a motion picture apparatus, the combination with a pair of parallel shafts, a gear connected to each of said shafts, means connected to said gears to rotate the gears simultaneously but in opposite directions, a pulley loosely mounted on each shaft adjacent the gear thereon, of separate means for connecting each pulley releasably to its associated gear so as to be driven thereby, an actuating lever slidably mounted on said shafts for movement normal to the axes thereof, means on said lever for sliding said pulleys selectively toward said gears to engage one of said connecting means to connect one of said pulleys to its associated gear, and means independent of the lever for sliding the other pulley away from its associated gear to disconnect said other pulley.

2,611,284
FILM REEL DRIVE
Arthur C. Albee, Hollywood, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application February 16, 1951, Serial No. 211,252
6 Claims. (Cl. 74—665)

1. A gear drive mechanism adapted to rotate either one of two gears having fixed axes, comprising a pivoted bracket, a drive gear rotatably mounted on the end of said bracket, said gear being shiftable with said bracket between said fixed axis gears, a gear for rotating said shiftable drive gear and constantly in mesh therewith, a second gear mounted on said bracket and constantly in mesh with said shiftable drive gear and rotatably mounted on said bracket, and friction means for maintaining a drag on the rotation of said second gear, said second gear preventing free rotation of said drive gear during the shifting



thereof and applying a force to maintain said drive gear in mesh.

2,611,285
SEALING DEVICE
Bernard Gross, San Diego, Calif., assignor, by mesne assignments, to Rohr Aircraft Corporation, a corporation of California
Application November 25, 1949, Serial No. 129,253
2 Claims. (Cl. 78—54)



1. A laminated metal structure comprising: upper and lower abutting sheets; a rivet having a cylindrical shank and a lower head in contact with the lower sheet; the lower sheet having an opening adapted to pass the rivet shank and the upper sheet having a cylindrical opening extending entirely therethrough and through which the rivet shank passes; a disc shaped rigid retainer whose diameter is substantially greater than the diameter of said cylindrical opening; said retainer having a depending cylindrical projection having a free sliding fit with the marginal wall of said cylindrical opening; a torus shaped ring of highly resilient material disposed within said cylindrical opening around the rivet shank, the length of the rivet shank being sufficient that upon its being upset to form a rivet head, the formed head presses against the top of said retainer to draw the sheets together and cause the base of said cylindrical projection to press against said ring by an amount just sufficient to force the ring into sealing contact with the rivet shank, the marginal wall of the cylindrical opening and the upper face of the lower sheet, but insufficient to produce permanent deformation of the ring.

2,611,286
BOTTLE CAP OPENER WITH CRIMP ENGAGING TEETH
Cohen H. Baker, Fort Worth, Tex.
Application September 15, 1947, Serial No. 774,053
1 Claim. (Cl. 81—3.46)

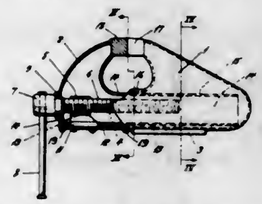
In an opener for bottles of the type having a closure which includes an annular row of peripherally spaced crimps, a relatively flat elongated handle, a head carried by the handle adjacent one end thereof, said head having an

opening extending therethrough, an annular row of peripherally spaced pointed teeth carried by the head and extending into the opening for engaging the outwardly extending portions of the crimps, the spaces between the points of the teeth being equal to the distance between ad-



jacent crimps, and said teeth lying along axes which converge as they recede from the wall of the opening and at their point of convergence lie to one side of the handle whereby the points of the teeth will enter the spaces between the crimps of a bottle closure and engage under said crimps upon slight rotary movement of the opener.

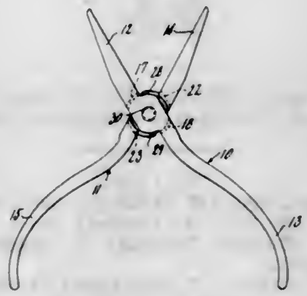
2,611,287
SHEET METAL GUIDE AND SUPPORT FOR VISE JAWS
Malte Brandstad, Torshalla, Sweden
Application July 27, 1948, Serial No. 40,969
In Sweden March 10, 1947
2 Claims. (Cl. 81—33)



1. In a vise, a stationary jaw provided with a fastening plate and composed of two image-like channel-shaped halves of drawn sheet metal welded together at their abutting edges, the lower portion of said jaw forming a straight channel-shaped guideway having a flat bottom wall, a nut secured to said bottom wall and having side surfaces spaced from interior side surfaces of said guideway, a movable jaw also composed of two image-like channel-shaped halves of drawn sheet metal welded together at their abutting edges and formed with a lower straight slide portion which is slidingly mounted in the guideway of the stationary jaw, the upper portions of the slide and the guideway each having an inverted V-shaped cross section and the slide portion having spaced lower edges which are turned inwardly at right angles so as to engage the side surfaces of the nut and to provide therewith a guide for the movable jaw, a clamping screw revolubly mounted in the movable jaw, said screw extending through said slide portion and engaging said nut, and wear strips mounted on said bottom wall and beneath the inturned lower edges of the slide and between said interior side surfaces of the guideway and said side surfaces of the nut.

2,611,288
MESH JOINT FOR PLIERS AND LIKE INSTRUMENTS
Max Schiffbauer, Springfield, N. J.
Application January 27, 1950, Serial No. 140,930
4 Claims. (Cl. 81—51)

2. A plier or similar tool comprising complementary parts, each of said parts having jaw and handle portions, said jaw and handle portions of each part having similar undercut recesses, a guide perforated plate having edge portions adapted to cooperate with the respective recesses of the parts and fixed to the recesses of one part, and a pivot pin connecting the plier parts together and passing through the perforations of the guide plate, the edge portions of the guide plate being adapted to fit the recesses of one part being straight and tight fitted into the recesses of the one part, the remaining edge portions being adapted to fit the recesses of the other part and being curved, said other part having its recesses curved to receive the curved edge portions of the guide plate whereby to effect a guiding action upon the parts as they are closed upon one another.

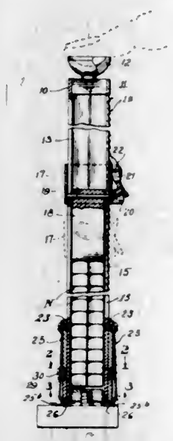


3. A plier or similar tool comprising complementary parts, each of said parts having jaw and handle portions, said jaw and handle portions of each part having diagonally arranged undercut recesses, a guide plate having diagonally disposed pairs of edge portions adapted to cooperate with the respective recesses of the parts, one pair of said edge portions being fixed to the corresponding recesses of one part, and a pivot pin connecting the plier parts and the guide plate together, the other pair of edge portions of the guide plate being straight and inclined with respect to each other, the recesses of the respective parts being of similar contour and adapted to receive the respective straight edges of the guide plate, the plier parts thereby being of the same shape and adapted to be formed with the same die, the shape being the same even to the recesses.

2,611,289
NUT-HOLDING MAGAZINE WRENCH
Louis Frank, Fellows, Calif.
Application October 25, 1946, Serial No. 705,705
4 Claims. (Cl. 81—125)

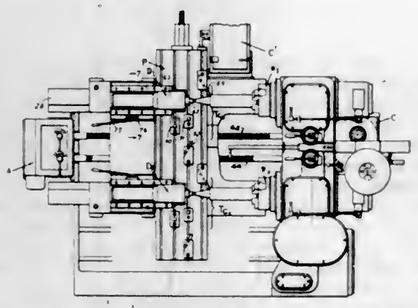
1. In a nut ejecting magazine and driver, a tubular magazine, sliding means in said magazine, manually operable means arranged for sliding movement on said magazine and connected to the means within the magazine for forcing nuts downwardly therethrough, two pairs of diametrically arranged springs mounted on the lower portion of said magazine, each pair of springs being of different lengths, the lower ends of which springs extend inwardly so as to occupy positions above and below the lowermost nut in

said magazine, and means mounted for rotation on the lower portion of said magazine between



said springs and the magazine for simultaneously moving the lower ends of said springs outwardly.

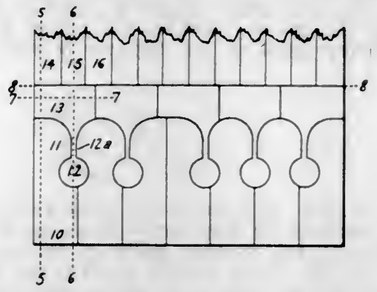
2,611,290
METHOD OF TURNING WORK
Edward P. Bullard, III, Fairfield, Conn., assignor to The Bullard Company, a corporation of Connecticut
Application May 8, 1946, Serial No. 668,174
2 Claims. (Cl. 82—25)



1. The method of center turning work which comprises, rotating a workpiece between centers, moving the cutting edge of a non-rotary tool tangentially to working position from one side of said workpiece and then moving said tool axially of said workpiece when said tangentially-fed tool is in working position; subsequently moving the cutting edge of a second non-rotary tool to working position from said one side of said workpiece while maintaining said tools in relatively fixed spaced relation and then moving said second tool axially of said workpiece when said second tool is in working position, whereby said tangentially-fed tool clears the work as the second tool is fed toward the work.

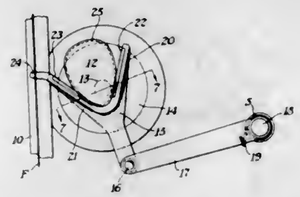
2,611,291
KEYBOARD
Oskar Helm, Woodside, N. Y.
Application November 16, 1949, Serial No. 127,547
10 Claims. (Cl. 84—427)

1. The combination in a keyboard of the character described, of a plurality of adjacent and parallel black and white keys, each key having portions lying in more than one plane and all



of the planes of the black keys being above all of the planes of the white keys.

2,611,292
CLAW PULLDOWN MECHANISM
Jasper S. Chandler, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 24, 1950, Serial No. 146,110
11 Claims. (Cl. 88—18.4)

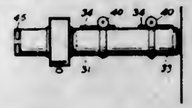


1. A cam-operated pull-down mechanism for intermittently advancing a perforated film along a given path and comprising a rotatable peripheral cam whose axis of rotation extends substantially parallel to, and laterally of, the film path, a cam follower having two follower surfaces disposed in acute angular relation to one another and adapted to engage said cam, a claw on said follower for engaging and advancing the film once for each revolution of said cam, means for mounting said cam follower so that it is free to move relative to the film path under control of said cam in directions to move the claw thereon longitudinally and perpendicularly of said film path, means for rotating said cam at a speed to oscillate said claw at a frequency of "*n*" strokes per minute, and means including a spring normally urging said follower in a direction to hold the two follower surfaces thereof in contact with said cam, said follower and spring-urging means having a natural frequency equal to *n* oscillations per minute, whereby the working pressure between said cam and follower surfaces, and hence wear on said two parts, is reduced.

2,611,293
MOTION-PICTURE PROJECTOR ATTACHMENT
Henry G. Weiss, Cincinnati, Ohio
Application August 2, 1949, Serial No. 108,102
4 Claims. (Cl. 88—24)

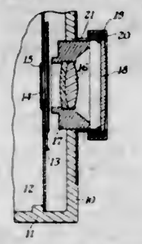
1. An attachment for quickly converting to stereopticon usage, a motion picture projector characterized by an electric-arc light source and a tubular lens assembly housing, said attach-

ment comprising a main tube in sections, one a forward section and the other a rear section, said rear section having one end dimensioned to frictionally engage the lens assembly housing so as to support the attachment in axial alignment therewith, a transparency holder on the opposite end of said rear section, said holder having a transverse passageway to receive a transparency to be light-projected, a longitudinally shiftable cylindrical member including a lens, disposed in the forward section of the main tube for adjust-



ing the size of the image of a transparency placed in the holder and illuminated by the projector light source, a second longitudinally shiftable cylindrical member carried by said main tube and movable axially relative to the first-mentioned cylindrical member, and including a lens for focusing said image, light condensing means in the rear section of the main tube, and means joining one end of the forward section to the transparency holder in axial alignment with the rear section of the main tube.

2,611,294
SUPPLEMENTAL LENS FOR CAMERA OBJECTIVES
Benjamin E. Luboshez, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 27, 1950, Serial No. 158,622
2 Claims. (Cl. 88—57)



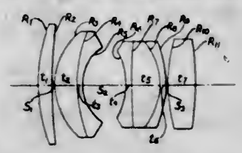
1. For use with standard flash lamps in close-up flash photography, a supplemental positive lens of relatively long focal length mountable on a fixed-focus, fixed-relative-aperture camera in close axial alignment with the camera lens to change the effective focus of the camera lens to a shorter distance C and having an optical density D equal to

$$\mathrm{Log}\left(\frac{A}{C}\right)^2$$

where A is the distance from the camera at which a subject illuminated by a standard flash lamp at the camera correctly exposes film through the relative aperture of said camera lens.

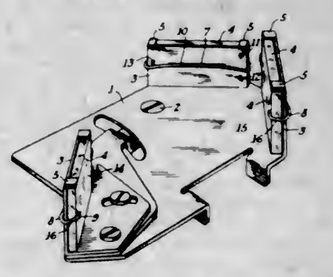
2,611,295
OPTICAL OBJECTIVE COMPRISING A MENISCUS DOUBLET AND MENISCUS TRIPLET BETWEEN TWO POSITIVE COMPONENTS
Willy Schade, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 14, 1951, Serial No. 231,624
2 Claims. (Cl. 88—57)

1. A photographic objective consisting of two positive components and two compound negative meniscus components concave toward each other spaced between and axially aligned with the two positive components, in which each positive element as hereinafter enumerated has a refractive index between 1.65 and 1.95, in which the front component is weakly concave toward the rear and consists of a single positive lens element, in which the second component consists of a meniscus positive element cemented to the front of a meniscus negative element, the cemented surface having a radius of curvature between 0.5F and 2F and negative power numerically between 0.01P and 0.05P where F is the focal length and P the power of the objective as a whole, in which the third component consists of a positive element



cemented between two negative elements of which the rear negative element has a refractive index between 0.1 and 0.2 lower than that of the positive element and of which the front negative element has a dispersive index between 0.4 and 0.75 times that of the positive element and a refractive index between 1.60 and 1.85, the rear cemented surface having a radius of curvature between 0.3F and 0.55F and the front cemented surface having a radius of curvature numerically between 0.8F and ∞ inclusive, in which the concave rear surface of the second component is more strongly curved than the concave front surface of the third component, and in which the rear or fourth component is biconvex and includes one positive element.

2,611,296
MOUNT FOR OPTICAL ELEMENTS
Clarence W. Pribus, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 13, 1949, Serial No. 87,326
2 Claims. (Cl. 88—84)



1. A mount for optical elements of range finders for cameras comprising a rigid supporting plate having upstanding flanges, each including three protuberances having outer ends lying in a plane, each three protuberances supporting an optical element in a predetermined plane, each upstanding flange including a groove formed by a pair of spaced walls spaced apart a predetermined amount and extending into the flange and lying inside an area the outside of which is defined by the three protuberances, a spring wire clip having a central portion of a size to snugly fit into the groove and extending into a position between the spaced walls to be located by the walls extending into the flange and having ends

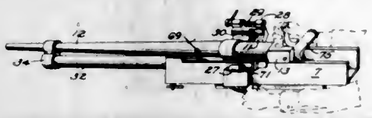
extending about the ends of the upstanding flange and over a portion of the front face of the optical element supported on the protuberances for resiliently holding the optical element thereon.

2,611,297

MEANS FOR LOCKING FIREARM BARRELS

Clarence E. Simpson, Wilbraham, Mass., assignor to the United States of America as represented by the Secretary of War

Original application June 7, 1946, Serial No. 675,124. Divided and this application December 21, 1949, Serial No. 134,311
2 Claims. (Cl. 89—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



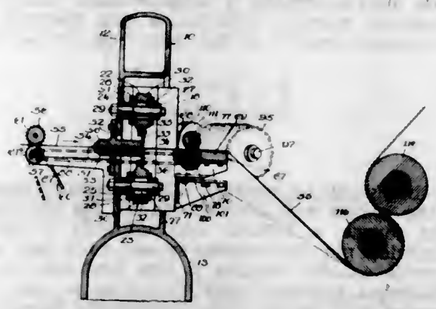
1. In a firearm, the combination of a channel-shaped receiver having a longitudinal groove in either side thereof, a substantially rectangular barrel extension having a longitudinal rib on either side thereof for slidable engagement with said respective receiver groove, each of said grooves terminating at the forward end thereof in a cutaway portion of sufficient length to permit vertical passage therethrough of said barrel extension rib, a barrel fixedly secured to said barrel extension for movement therewith, a cylindrical tube extending through the front of said receiver and disposed beneath and parallel to said barrel, a spring-biased piston slidably mounted for longitudinal reciprocal movement in said tube, yoke means connecting said barrel with the rear end of said piston whereby the spring-urged movement thereof imparts counter-recoil movement to said barrel and barrel extension, a blocking member pivotally secured at one end to one side of said receiver adjacent the rear end of said cutaway portion therein and releasably latched at the other end to the opposite side of said receiver, said blocking member having an arcuate underside portion and a rearwardly adjacent rectangular recessed portion, a shoulder formed by the junction of said underside portions of said blocking member, said arcuate underside portion arranged to fit around the upper periphery of said barrel and said rectangular recessed portion arranged to provide access for said barrel extension whereby the side of said shoulder serves to stop said barrel extension and thereby said barrel in battery position, means for releasing the latched end of said blocking member from said receiver whereby pivotal movement thereof transversely of said receiver withdraws said shoulder from in front of said barrel extension thereby permitting said barrel extension to be moved forwardly until said yoke means contacts the rear end of said cylindrical tube, and retractable detent means located at the front end of said receiver for normally engaging said cylindrical tube to prevent forward movement thereof when said blocking member is rendered inoperative, all adapted and arranged whereby retraction of said detent means from engagement with said tube frees said cylindrical tube and thereby said barrel and barrel extension for simultaneous forward movement in order to align said ribs on said barrel extension with said cutaway portions in said receiver for disassembly of said barrel and barrel extension therefrom.

2,611,298

APPARATUS FOR MAKING EXPANDED SHEET MATERIAL

Carl B. Rowe, Madison, Wis., assignor to Research Products Corporation, Madison, Wis., a corporation of Wisconsin

Application January 19, 1949, Serial No. 71,621
4 Claims. (Cl. 93—1)



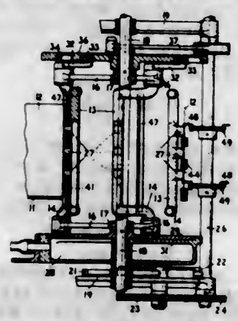
1. In apparatus for making expanded sheet material, the combination of means for advancing a sheet in the longitudinal direction, means for forming transverse lines of slits in said advancing sheet, means for flattening said slitted sheet, a feed member spaced forwardly of said flattening means and having a friction surface for engaging a surface of said slitted sheet, said friction surface moving forwardly at a rate more rapid than the rate of advance of said sheet to said slitting means whereby said sheet is expanded, said spacing being sufficient to leave the webs between the slits free to turn at an angle to the plane of the sheet, and means between said flattening means and said feed member for imparting an initial tilt to said webs in a uniform direction out of the plane of said sheet.

2,611,299

FEEDING OF COLLAPSED CARTONS AND THE LIKE

Alfred German Rose and James Page, Gainsborough, England, assignors to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company

Application September 6, 1950, Serial No. 183,451
In Great Britain September 30, 1949
5 Claims. (Cl. 93—53)



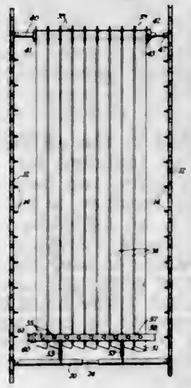
1. A carton feed comprising a holder for containing a pack of collapsed cartons, a rotatable suction member, a series of suction heads pivotally mounted on said suction member, driving means for rotating said suction member intermittently to carry the suction heads in turn firstly to a seizing station, then to an opening station and then to a delivery station, means for pivoting each suction head as it reaches the seizing station to cause it to seize and withdraw a carton from the pack, an abutment at the opening station, means for pivoting the suction head at the opening station to cause a relative movement between it and the abutment for the purpose of engaging a leading portion of a carton carried by the suction head and causing it to pivot through 180° thereby opening the carton and recollapsing it, and means at the delivery station for receiving the collapsed carton from the suction head.

2,611,300

FILM HANGER

Harold L. Fitch, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 29, 1949, Serial No. 135,626
5 Claims. (Cl. 95—94)



1. In a film-processing machine having a processing tank, the combination with a pair of spaced endless chains movable through said tank and formed with pairs of aligned inwardly extending pins, of a film hanger comprising a pair of separate rods spaced longitudinally of said chains, one of said rods being adapted to support a plurality of film spools each of which has one end of a film strip anchored thereto, a bar spaced longitudinally but arranged parallel to said one rod, means on said bar for connecting the free ends of the film strip thereto, means to connect said bar yieldably to said other rod, and means to connect said rods to pairs of said pins to support said strips in a tensioned relation between said rods for movement through said tank.

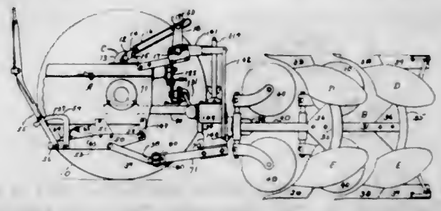
2,611,301

DIRECT MOUNTED TWO-WAY PLOW

George Ross Ego, Brantford, Ontario, Canada, assignor to Massey-Harris Co., Ltd., Brantford, Ontario, Canada, a corporation of Canada

Application July 8, 1948, Serial No. 37,593
4 Claims. (Cl. 97—26)

1. In combination, a tractor having a power lift, a plow frame having plow bottoms attached to its rear end, said plow frame having a bracket secured to its forward end, two spaced apart forwardly extending arms rigidly secured together at their rear ends by a transverse bar forming a bail, said arms having their forward ends pivotally connected to the frame of the tractor a hitch member secured at its rear end to said bracket, the forward end of said hitch member being rotatably secured to the transverse bar of said bail by means of a universal joint, the power lift of the tractor having connections to opposite sides of said bracket for raising and lowering the plow, a manually controlled depth lever adapted to determine the downward movement of the rear end of said bail, stops anchored to the tractor and positioned normally above and in the path of said bail, whereby when the rear end of the bail rises to a predetermined height, a further movement of the power lift will raise the rear end of the plow frame on said universal joint as an axis.

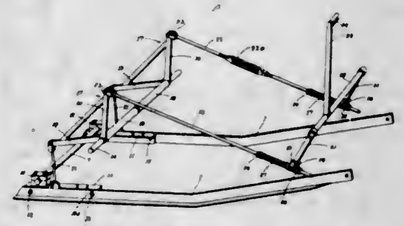


2,611,302

LIFT TYPE DRAFT UNIT

Manuel De Bairos, Caruthers, Calif.

Continuation of application Serial No. 690,033, August 12, 1946. This application June 21, 1948, Serial No. 34,241
1 Claim. (Cl. 97—47)



In an implement lift and draft unit for wheel tractors including a transversely extending tool bar adapted to be disposed to the rear of the tractor, means arranged to mount said tool bar in draft connection with the tractor and for vertical adjustment, and a lift assembly mounted on the tractor and connected to the tool bar; said lift assembly including a cross shaft disposed above the tool bar, transversely spaced bearing arms adapted to mount the cross shaft in connection with the tractor, a pair of transversely spaced bellcranks having bearing sleeves independently rotatably mounted on the cross shaft between the bearing arms, forwardly yieldable links connecting the bellcranks and tool bar, and control means to swing the bellcranks; the bellcranks including elongated bearing sleeves engaging the shaft and together extending from end to end of the shaft between the bellcranks properly spaced transversely and providing elongated bearing areas between the shaft and bellcranks.

2,611,303

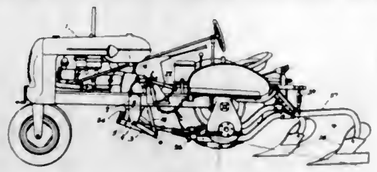
DRAFT GEAR

William J. Preising, New Albany, Ind., and Robert E. Stutzke, Louisville, Ky., assignors, by mesne assignments, to Minneapolis-Moline Company, a corporation of Minnesota

Application July 7, 1948, Serial No. 37,425
10 Claims. (Cl. 97—47)

1. The combination comprising: a tractor; a pair of brackets rigidly secured to said tractor; an articulate member comprising a draft bar

adapted to be connected at one end to an earth working tool and an elevating lever pivotally connected together; links connected between said brackets and an end of said elevating lever; a



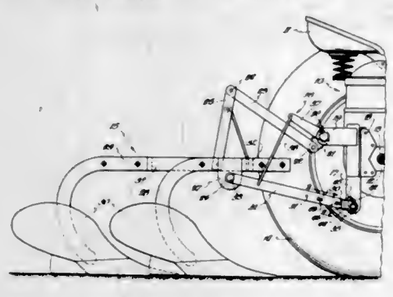
bar connected to said latter mentioned end of the elevating lever; resilient means engaging said elevating lever; and means for simultaneously adjusting the elevation of said resilient means and latter bar.

2,611,304

TRACTOR-MOUNTED IMPLEMENT

Wayne G. Toland, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application November 18, 1950, Serial No. 196,473
9 Claims. (Cl. 97—47)



1. Hitch means for a tractor-mounted implement having laterally spaced longitudinally extending hitch arms connecting the implement to the tractor, comprising transverse shaft means, universal connecting means connecting the forward end of each said hitch arm to the shaft means to accommodate lateral swinging of the implement relative to the tractor in operating position and vertical swinging thereof between operating and transport positions about the axis of said transverse shaft means, a part mounted on said shaft, a stop member affixed to said part, a plate member carried by the hitch arm spaced from said stop during normal operation of the implement but engageable therewith to limit the lateral swinging of the implement, said stop having a portion engageable with the plate member upon vertical swinging of the implement to transport position about the axis of said shaft to hold the implement against lateral swinging.

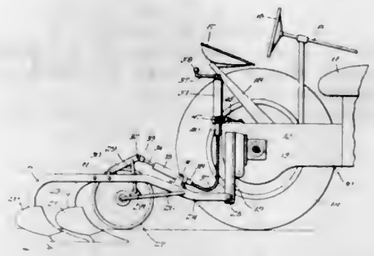
2,611,305

IMPLEMENT CONTROL FOR TRACTOR-CONNECTED IMPLEMENTS

Russel D. Acton, Chicago, Ill.

Application November 18, 1946, Serial No. 710,612
8 Claims. (Cl. 97—47)

1. For tractor-implement combinations in which the implement has a movable working member thereon requiring adjustment during operation of the implement, an adjusting device comprising a guide member adapted to be secured to a portion of the tractor-implement combination, a plunger member slidably mounted in said member and adapted to be connected to said movable working member, a bracket structure adapted to be mounted on the tractor, a recess formed in said bracket member, a clamping member adapted to be secured over said recess, a second guide member to which the other end of the conduit is connected, said guide member and said bracket and cover members having interlocking projections to rigidly secure the guide member, a hollow housing structure having an end portion secured to said bracket by the clamping member in alignment with the guide member, a plunger



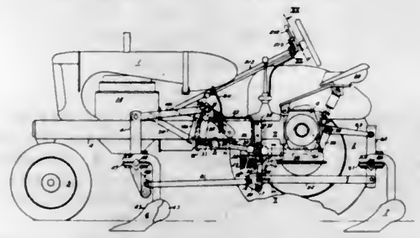
member mounted in the second guide member, a piston member mounted for reciprocation in the housing structure and held against rotation therewith, said member being secured to the plunger member, an adjusting member extending into the housing structure and being connected by threading to said piston member, said adjusting member being held against axial movement with respect to the housing structure, and crank means secured to said adjusting member for rotating it in either direction and thereby reciprocating the plunger member to adjust the implement at will.

2,611,306

POWER LIFT MEANS AFFORDING DEPTH CONTROL AND SEQUENTIAL RAISING AND LOWERING OF IMPLEMENTS

Walter F. Strehlow and Charles T. O'Harrow, Wauwatosa, and Roy W. Johansen, West Allis, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application June 1, 1948, Serial No. 30,348
29 Claims. (Cl. 97—50)



1. In combination, a tractor including a power source, a ground working implement operatively connected with said tractor through a raft structure including a portion movable in response to variations in implement induced draft force imparted thereto, a lift mechanism operatively connected with said implement and including a powered device for varying the vertical position of the implement throughout a predetermined range of movement, a power transmitting means

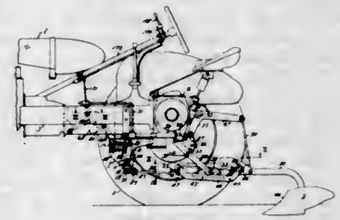
for controllably connecting said powered device with said source, said power transmitting means including a part operatively associated with said portion and controllably shifting position in response to movements of the latter, a lever operatively connected with said part for selectively varying the position of said part relative to said portion, means operatively connected with said portion and rendering movements of same ineffective to control the position of said part, and additional means for controlling said powered device including an element connectable with said lever and movable thereby to a position rendering said powered device effective to hold said implement in any selected position throughout its range of movement.

2,611,307

CONTROL LINKAGE FOR HYDRAULIC DRAFT REGULATION OF VEHICLE PROPELLED IMPLEMENTS

Walter F. Strehlow, Wauwatosa, and Igor Kamlukin, Milwaukee, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application August 23, 1948, Serial No. 45,684
10 Claims. (Cl. 97—50)



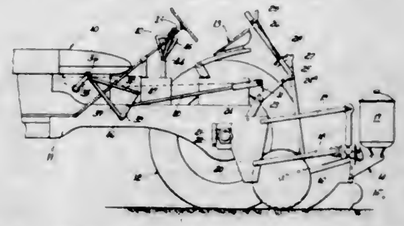
1. In an automatic draft control for a ground working implement operated through means including a pump, a hydraulic motor connected with said implement, a valve movable throughout a predetermined range for controlling the flow of fluid to and from said motor, and a movable part responsive to variations in an implement induced draft force applied thereto, the combination of a linkage operatively connecting said valve and movable part comprising a first lever movably supported with a first portion thereof disposed for operative engagement with said valve, a second lever mounted for swinging movement and having a portion thereof operably connected with a second portion of said first lever remote from said first portion affording relative swinging movement therebetween and rendering said first lever actuable by said second lever, a manual control lever, a link connecting said manual control lever with said first lever intermediate said first and second portions and affording a fulcrum for said first lever which is selectively shiftable by actuation of said manual control lever, said first lever constituting a common means operatively connecting said second and manual levers in motion transmitting relation to said valve and rendering said manual lever actuable to position said first portion of said first lever in a preselected extent of lost motion relation to a limiting position of said valve whereby said second lever must then move an amount proportional to said preselected extent before imparting motion to said valve, and means operatively connecting said second lever with said movable part.

2,611,308

LIFT MECHANISM FOR TRACTOR IMPLEMENTS

James Morkoski, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application October 28, 1948, Serial No. 56,991
2 Claims. (Cl. 97—50)



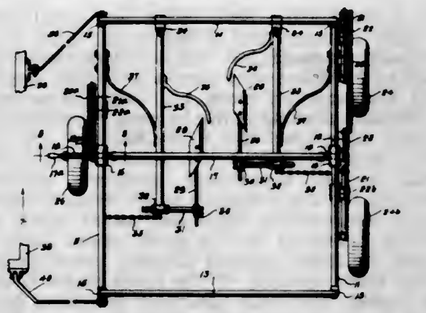
2. For use upon a tractor having a longitudinally extending body and an implement mounted thereon, a pair of closely adjacent rock arms independently mounted on the tractor on a common axis at one side of the tractor body for rocking movement longitudinally thereof, a member on the tractor rockable about a transverse axis longitudinally spaced from said rock arms and connected to the implement for moving the latter between operating and transport positions upon rocking of the rockable member, connecting linkage from the rock arms to the rockable member including a lift rod connected at one end to the rockable member, a vertically extending lever pivoted medially of its ends to the other end of the lift rod, and a pair of converging links pivotally connected at one end to the respective rock arms and at the other end to the ends of said lever, said links and said lever forming a triangle when said rock arms are in alignment at the beginning and end of the lifting operation, said lever being swingable about its pivot on the rod upon independent movement of one rock arm, whereby rocking of one arm is insufficient to raise the implement to its transport position.

2,611,309

GRAPE VINEYARD CULTIVATOR

Joel A. Crain, Clovis, Calif.

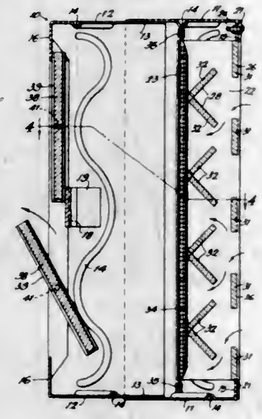
Application September 23, 1946, Serial No. 698,854
2 Claims. (Cl. 97—137)



1. In a cultivator for grape vineyards and the like, a frame comprising pairs of oppositely disposed upper and lower side members, arched transverse end members connecting the front and rear ends of said side members, a pair of levers spacedly pivoted intermediate their ends to the lower side member at one side of said frame, another lever pivoted intermediate its ends to the lower side member at the opposite

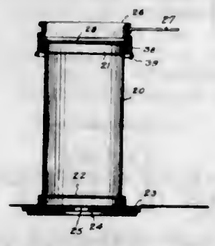
side of said frame, axles projecting laterally outward from the lower ends of said levers, ground wheels on said axles, a lever of arched form disposed transversely of said frame midway between the front and rear ends thereof, outwardly directed extensions at the opposite ends of said arched lever, bearings centered on the upper side members of said frame for said extensions, a hand lever mounted on the outer end of one of said extensions, an arm extending radially from each of said extensions, links connecting said arms with the upper ends of the first levers whereby the ground wheels can be raised and lowered upon the actuation of said hand lever, a pair of transversely aligned members extending inwardly from the front ends of the lower side members of said frame, a pair of elongated elements of different lengths extending rearwardly in parallel relation from said aligned members, ground working elements dependingly supported from the rear ends of said elongated elements, and draft coupling means offset from one side of said frame.

2,611,310
VENTILATING WALL BLOCK
Nathan Cowan, Melrose Park, Ill., assignor to Air Rectifiers, Inc.
Application May 27, 1947, Serial No. 750,855
3 Claims. (Cl. 98—118)



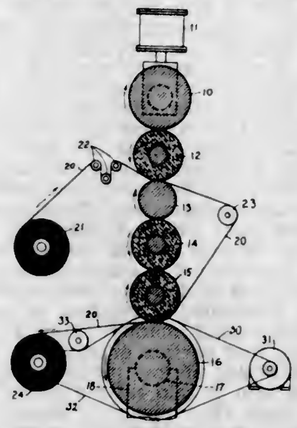
1. A ventilating wall block for walls formed of light transmitting blocks comprising a substantially rectangular hollow sheet metal body open at its front and rear and of the size of a light transmitting block and adapted to be incorporated as a block in the wall, an integral inturned flange on the front face of the sheet metal body all about the front opening, sheet metal louver supporting members providing channels for the reception of the ends of louvers, means for securing the sheet metal louver supporting members to the sheet metal body adjacent the front opening thereof, louvers carried in the front opening of the sheet metal body by the louver receiving channels provided by the sheet metal louver supporting members behind the internal flange, an integral inturned flange on the rear face of the sheet metal body all about the rear opening and having integral internal side flanges on two opposed sides of the rear opening, pivot holes in the side flanges, a door having pivot pins extending into the holes in the side flanges for pivotally mounting the door in the rear opening of the sheet metal body between the side flanges, a screen within the sheet metal body, and means for supporting the screen in the sheet metal body immediately behind the louvers.

2,611,311
SMOKE ABSORBENT SMOKER
Herbert G. Irwin, Noble, La.
Application December 6, 1946, Serial No. 714,588
2 Claims. (Cl. 99—259)



1. A smoke absorbent smoker including a smoke generating chamber having a heat absorbent bottom for supporting a quantity of smoke generating material over an external heating element, said smoke generating chamber having a top rim defining a mouth for receiving smoke generating material into the smoke generating chamber and emitting smoke from the smoke generating chamber, said rim affording a seat for a smoke absorbent container having a permeable bottom; a smoke absorbent container having a permeable bottom for supporting a quantity of smoke absorbent and covering the mouth of said smoke generating chamber with the outer margin of said permeable bottom seated on the rim of said mouth; and a heat deflector for covering said heating element around said smoke generating chamber, said heat deflector having an outer surrounding edge whereby excess heat from said heating element is admitted upwardly beyond the smoke absorbent container seated on the mouth of the smoke generating chamber.

2,611,312
EMBOSSING CALENDER
Paul R. Illner, Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
Application October 17, 1946, Serial No. 703,769
2 Claims. (Cl. 101—23)



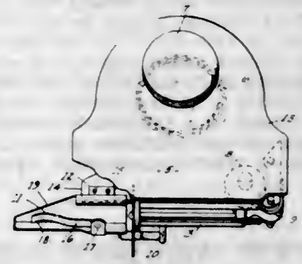
1. In a calender comprising a plurality of metallic and cooperating yielding-surfaced non-metallic rolls, arranged in superposed contacting relationship to form a single stack; means for applying downward pressure to the journals of the uppermost roll, and means for supporting the journals of the lowermost roll, in said stack; and means for positively rotating the lowermost roll in said stack; the improvement which adapts said calender for embossing a paper web on both sides in a single pass through said stack, said improvement comprising: an engraved pattern on the surface of each of two of said metallic rolls, said engraved rolls contacting only yielding-surfaced rolls, and being separated from each other by an even number of rolls, the diameter of the lower of said engraved rolls being not less than two times that of the other of said engraved rolls.

2,611,313
DUPLICATING METHOD
Ray Bennett Keller and Harrold Bowman Dawson, Erie, Pa., assignors to Hammermill Paper Company, Erie, Pa., a corporation of Pennsylvania
Application December 10, 1946, Serial No. 715,308
2 Claims. (Cl. 101—149.4)



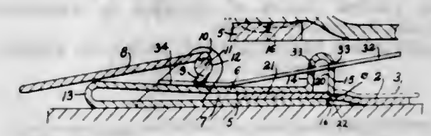
1. A method of duplicating which comprises providing a master sheet having a layer of duplicating material soluble in a duplicating fluid, a layer of protective material insoluble in said duplicating fluid overlying said layer of duplicating material, and a micro-thin parting layer of wax interposed between said layer of duplicating material and said protective layer; transferring localized areas of the protective layer and parting layer of said master sheet to a backing sheet by the application of impact or pressure; separating said backing sheet and said master sheet to expose the duplicating material in said master sheet only within said localized areas; and forming a plurality of duplicate copies from the duplicating material thus exposed.

2,611,314
PRINTED TAG RECEIVER FOR TAG PRINTING MACHINES
Philip N. Braun, Syracuse, N. Y.
Application October 12, 1948, Serial No. 54,063
1 Claim. (Cl. 101—288)



A receiver for tags severed from tape in a printing machine which includes a platen carrier having a back and forth movement to carry the tape toward and from the printing line, tape feeding mechanism on the platen carrier operated by the movement of the carrier, and a knife also carried by the platen carrier and operated by the shifting movement of the carrier to sever the printed portion of the tape after said portion has been fed off the platen face, said receiver being characterized by being mounted on the carrier in line with the platen face and spaced endwise from the end of the platen face with respect to the feeding movement, with the knife being movable between the end of the platen face and the end of the receiver.

2,611,315
PRINTER'S GAUGE
Carl J. Winkvist, Mattapan, Mass.
Application February 25, 1949, Serial No. 78,427
2 Claims. (Cl. 101—415)



1. A printer's gage comprising a base plate having a tympan sheet supporting surface terminating at its front end in a biting edge, a clamping member presenting a vertically extending work-positioning portion having at its lower end a tympan sheet engaging surface which is located immediately beyond the biting edge of the base plate, and also having a vertical inner wall which forms with the tympan sheet engaging surface a companion biting edge parallel to, above and in the same vertical plane as the biting edge of the base plate, means to apply a clamping pressure to the clamping member to press the tympan sheet engaging surface thereof against that unsupported portion of a tympan sheet resting on the base plate which lies immediately beyond the biting edge thereof, and to displace said unsupported portion downwardly and to sink the bitting edge of the clamping member into the top surface of the tympan sheet, thereby forming therein a forwardly facing shoulder, and also to sink the biting edge of the base plate into the bottom face of said tympan sheet, thereby to form therein a rearwardly facing shoulder which is in the same vertical plane as said forwardly facing shoulder, and means to limit the tympan sheet displacing movement of the tympan sheet engaging surface to less than half of the thickness of the tympan sheet.

2,611,316
AMMUNITION
Peter P. Alexander, Beverly, Mass., assignor to Metal Hydrides Incorporated, Beverly, Mass., a company of Massachusetts
Application June 14, 1949, Serial No. 99,097
1 Claim. (Cl. 102—38)



In an article of ammunition having a cartridge case and a projectile fitted therein and in which

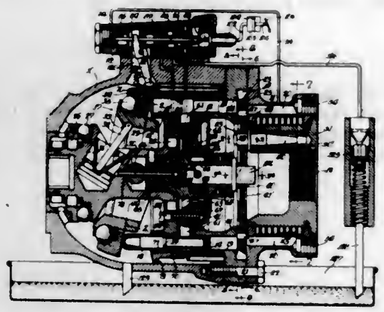
a portion of the projectile is ignitible upon impact with a target, the improvement wherein said ignitible portion is a pyrophoric alloy consisting essentially of zirconium and between about 50 to 60 per cent of lead by weight and projects forwardly from the tip of the projectile and is thereby adapted to come in direct contact with a hard target whereby the force of impact therewith causes said alloy to be crushed to a finely divided condition and thus be set afire.

2,611,317
ROTATING NOZZLE FOR ROCKETS
Alfred Africano, Weehawken, N. J., assignor to the United States of America as represented by the Secretary of War
Application March 8, 1946, Serial No. 652,868
3 Claims. (Cl. 102—50)



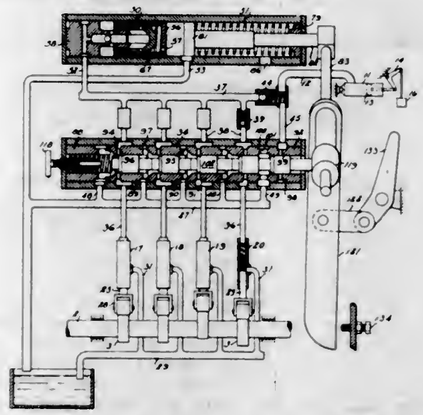
2. A rocket projectile having a motor chamber and provided with a throat leading to an opening at its stern end, a rotatable conical nozzle axially aligned with the said opening and having a plurality of upstanding vanes fixed at an angle to its inner surface, said vanes being positioned so that they intercept the outward flow of gases from the motor chamber, a threaded and flanged ring member cooperating with the adjacent ends of the said motor chamber and the said nozzle to form a raceway for anti-friction bearings, and a plurality of stabilizing fins foldable against the exterior sides of the nozzle when the rocket is in launching position.

2,611,318
PUMP
Gunnar A. Wahlmark, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a corporation of Illinois
Application December 17, 1945, Serial No. 635,455
12 Claims. (Cl. 103—2)



1. A pump comprising, in combination, a casing provided with an inlet and an outlet, means forming a plurality of cylinders annularly arranged, pistons in said cylinders, a drive shaft, means for converting rotary movement of the shaft into reciprocatory movement of the pistons, means forming a cylindrical valve chamber having pairs of opposed ports with the ports of each pair being substantially alined with each other, one port of each pair communicating with a cylinder and the other communicating with the pump outlet, and valve means for alternatively connecting the cylinder ports with the inlet and for controlling separately and in repeated sequence the flow of fluid from one to the other port of each of said pairs of ports, said valve means comprising an annular valve member having valve ports therein, one associated independently with each of said pair of ports, eccentric means driven by the shaft for imparting to the valve member a gyratory movement and means for preventing rotary movement thereof.

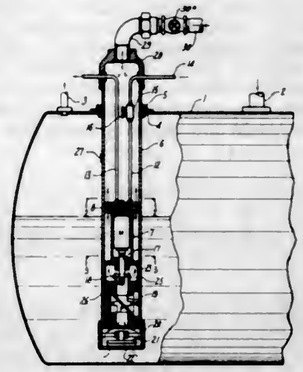
2,611,319
PUMP
Walter F. Strehlow, Wauwatosa, and Igor Kamlukin, Milwaukee, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 12, 1948, Serial No. 26,516
25 Claims. (Cl. 103—11)



1. In a hydraulic apparatus including a pump means, means defining a valve chamber in continuous communication with said pump means for receiving pressure fluid therefrom, a fluid return passage means communicating with said valve chamber, and a working fluid passage means communicating with said valve chamber and with said return passage means through inlet and relief valves respectively of a nature operating to maintain the fluid confined therein at a predetermined working pressure, and including a control valve in said chamber positionable to selectively connect said pump means with either said working fluid passage means or said return passage means, or with both, the combination of an unloading control comprising a part responsively associated with said relief valve and being operatively connected with said control valve so as to move the latter to a position wherein less fluid is delivered to said confining space in response to a pressure relieving actuation of said relief valve.

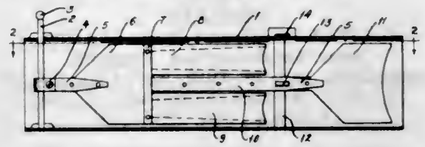
2,611,320
GASOLINE OR OTHER LIQUID DISPENSING MEANS
Chester C. Morrison, Pittsburgh, Pa., assignor to Harry A. Kraeling, Pittsburgh, Pa.
Application August 30, 1947, Serial No. 771,499
5 Claims. (Cl. 103—16)

1. A motor pump unit comprising a relatively small diameter elongated casing having a pump chamber, a motor contained within said casing having pipe connections to a source of compressed air and to the atmosphere, an inlet passage for the pump chamber at the bottom of the casing, a foot valve controlling said inlet passage, a pump outlet to the space within the casing, the said compressed air supply conduit being within the casing and having a valve responsive to the



pressure of the fluid in the casing controlling the supply of compressed air to the motor, said casing having a relief valve for maintaining a predetermined maximum pressure in the casing in excess of the pressure required for shutting off the air supply valve to the motor.

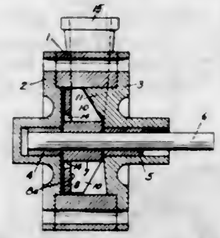
2,611,321
VESSEL AND FLUID PROPELLING DEVICE
Homer J. Shafer, Mansfield, Ohio
Application August 29, 1946, Serial No. 693,672
14 Claims. (Cl. 103—80)



1. A fluid propelling device comprising a housing immersible in fluid; a shaft therein; a spindle therein; a bowed flexible impelling member connected between said shaft and said spindle; fins associated with said impelling member; and means to oscillate said shaft to impose a wave motion in said impelling member and said fins to thereby relatively move said housing and the fluid therein.

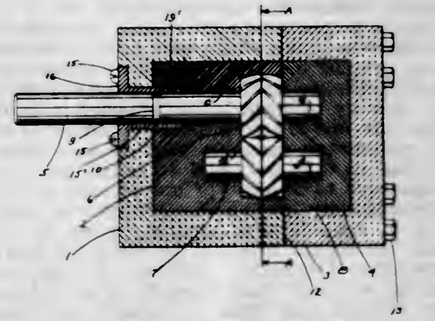
2,611,322
ROTARY PUMP WITH RADIAL INLET AND OUTLET
Adolph Wahle, Davenport, Iowa, assignor, by direct and mesne assignments, of one-half to W. H. Martin, Davenport, Iowa
Application January 2, 1946, Serial No. 638,607
6 Claims. (Cl. 103—96)

1. In a rotary pump, a casing having peripheral inlet and outlet openings and heads, a rotor in the casing having a hub and having a web arranged at a right angle to the axis of rotation of the rotor, there being radial vanes on opposite sides of the web, the vanes defining compartments and the vanes being of trapezoidal form upon one side of the web, the vanes at the second side of the web being of parallelogram form with their maximum dimension extending radially from the rotor hub, the radially inner edge of each vane, on the first side of the web, being connected to the rotor hub and the radially outer edge being at the periphery of the rotor, the web of the rotor being provided, adjacent the hub, with openings which connect the compartments upon opposite sides of the web so that liquid may flow therethrough from side to side of the rotor, whereby to balance the end thrusts upon the two



faces of the web, the rotor having a shaft supported by the heads of the casings, the said inlet and outlet to the compartments being entirely at one side of the web, and a stop on the head, at the inlet side of the pump, between the inlet and outlet, so that the trapezoidal vanes run close to the stop, whereby inlet of fluid is confined to the inlet side of the pump, and outlet of fluid is confined to the outlet side of the pump.

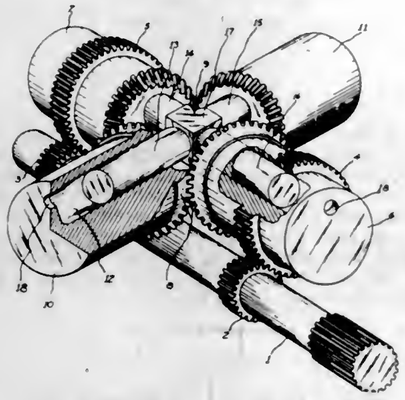
2,611,323
PUMP
Harold D. Digney, Syracuse, N. Y.
Application November 30, 1948, Serial No. 62,718
3 Claims. (Cl. 103—126)



1. In a pump, a housing having opposed hollow inner sections, each section of the housing having abutting inner ends, means connecting the sections together, the hollow portions of each of said sections being completely filled with a solid body of self-lubricating carbon, the opposed faces of said bodies being in transverse alignment with their corresponding abutting inner ends of the housing sections, the inner face of one of said solid bodies being recessed and provided with spaced bearing openings, one of which openings has a closed outer end, the opposed inner face of the other solid body having spaced bearing openings having closed outer ends arranged to align with the spaced openings in the first mentioned body and to coact with said recess to form a closed chamber when the parts are assembled, pump elements including a pair of intermeshing gears positioned in said chamber and having shafts extending from opposite sides thereof into said bearing openings so as to be revolvably mounted

therein, the section containing the gears and the solid body therein having aligned ports disposed on opposite sides of the pump elements and communicating with said chamber for entrance and discharge of fluid, and one of said shafts extending outwardly through the housing for connection with driving means for rotating the pump elements.

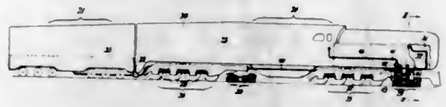
2,611,324
POWER CONVERSION APPARATUS
Augustus P. Henry, Los Angeles, Calif.
Application November 30, 1950, Serial No. 198,297
16 Claims. (Cl. 103—161)



1. A reciprocator unit comprising the combination of a piston assembly incorporating a pair of pistons the center lines of which occupy a single plane; a pair of spaced rotatable cylinder barrels each coacting with one of said pistons, each cylinder barrel having a bore eccentric from and parallel to the longitudinal axis of said barrel thereby to form in each barrel in cooperation with one of said pistons a chamber of variable volumetric capacity, each of said chambers having an inlet port and an outlet port; means responsive to rotation of one of said barrels for effecting simultaneous rotation of both said barrels in synchronism; means carried by one of said barrels for rotation therewith; a shaft; an operative connection between the last-named means and said shaft whereby when the barrels are rotated said shaft is rotated and whereby when said shaft is rotated said barrels are rotated; means responsive to rotation of said barrels for opening and closing said ports; and means including a housing for maintaining said barrels in predetermined fields of operation such that each barrel is restrained against all degrees of freedom, except one, relative to the housing, which one degree of freedom is freedom of said barrel to rotate about its longitudinal axis.

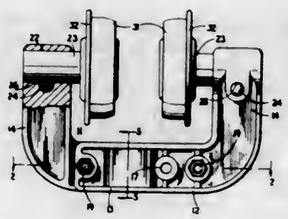
2,611,325
BALLASTING SYSTEM FOR LOCOMOTIVES
Carleton K. Steins, Overbrook, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 29, 1949, Serial No. 130,035
6 Claims. (Cl. 105—75)

1. A ballasting system for a locomotive having a body with a fuel storage compartment in one end thereof, and a fuel consuming power source of constant weight at the other end thereof, separately-powered drive wheel trucks with spring suspensions yieldingly supporting the body respectively beneath the fuel compartment and beneath the power source, and a coupled tender; said system including a ballast water compartment in the fuel compartment end of the locomotive body, a water storage compartment in the tender, piping between the ballast water compartment and the water storage compartment in the tender, a continuously operating pump interposed with a flow control valve in the piping, a cylinder with a piston for actuating the valve and with spring means influential upon the piston to maintain the valve normally set for idle circulation water in the pump, a vertically-arranged



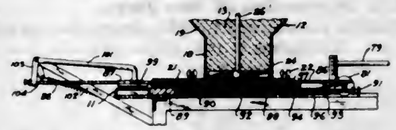
cylinder mounted upon a spring cushioned member of the truck beneath the fuel compartment end of the locomotive with its piston rod connected to a spring-supporting member of said truck, and a flexible conduit serially connecting the two cylinders whereby, upon relaxation of the springs of said truck as fuel is consumed, fluid is displaced from the last mentioned cylinder into the first mentioned cylinder to move the piston of the latter and thereby actuate the valve for transfer, by the pump, of fuel weight loss compensating water from the tender to the water ballast compartment and maintenance of a constant load on the powered truck beneath the fuel compartment end of the locomotive body.

2,611,326
TROLLEY
Cosby D. P. Smallpeice, Swanwick Shore, near Southampton, England
Application July 20, 1950, Serial No. 174,903
In Great Britain September 12, 1949
3 Claims. (Cl. 105—154)



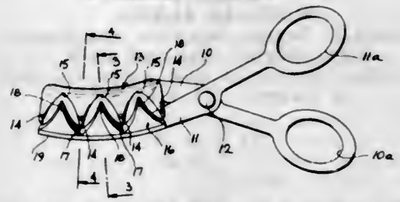
1. A rail trolley including a U-shaped bracket formed of similar complementary halves having overlapping portions forming the bridging portion of said bracket and defining between them a gap for the reception of a support for a load, and securing bolts which can be selectively passed through registering pairs of a plurality of holes in said overlapping portions to hold them relatively immovably with the limbs of said bracket spaced at alternative distances but without closing said gap, each said limb axially-slidably supporting in a bore thereof a spindle on which is journalled a rail-engaging roller, said spindles being co-axial and said rollers being adjacent the inner faces of said limbs, and means reacting between said limbs and spindles for locating the latter in an axially slid position so as to provide a fine adjustment of the distance between said rollers.

2,611,327
DISPENSING APPARATUS
Edward Albert Rudolph, Richmond Annex, Calif.
Application October 28, 1949, Serial No. 124,098
16 Claims. (Cl. 107—1)



14. In apparatus for dispensing a metered charge of material, a hopper, a member having an aperture dimensioned to receive therein a charge of material from said hopper, a closure member arranged to close off the bottom of said aperture when said aperture is being filled with material, means for imparting reciprocating motion to said apertured member and said closure member and to move said members from beneath said hopper, and means for then moving said closure member relative to said apertured member to open said aperture for discharge of said material onto a recipient.

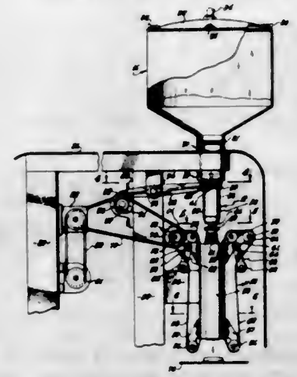
2,611,328
PIE CRIMPING AND SEALING DEVICE
John Roman, Elizabeth, N. J., assignor of one-half to Charles Levy, Brooklyn, N. Y.
Application June 7, 1950, Serial No. 166,609
7 Claims. (Cl. 107—49)



1. A device for sealing and crimping pies and the like comprising a pair of pivoted jaws projecting arcuately from and relative to a substantially vertical pivot axis, said jaws being built about a pair of concentric base lines, which lines in turn are concentrically related to the circular contour base line of a pie plate rim, the outer jaw including a guiding flange concentrically related to the pair of concentric base lines, said jaws respectively presenting outer and inner contour faces for producing the crimped zone of the pie, the jaw carrying the outer contour formation additionally carrying guide means below its contour face formation with the guide arcuate in the projected direction to conform to and cooperate with the pie plate edge in positioning the crimp, said contour faces being positioned in advance of the pivot and being rendered co-operative in producing the crimped zone by movement of the inner jaw pivotally relative to the positioned outer jaw and toward the closed position of the jaws to thereby produce the crimped formation by moving marginal zones of the upper and lower pie crusts into crimping and sealing positions by such jaw-positioning movements.

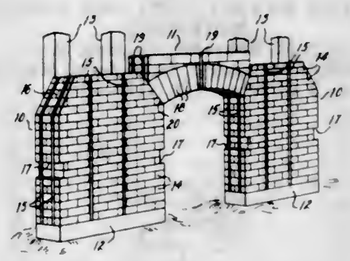
2,611,329
METHOD AND MACHINE FOR MAKING DOUGHNUTS AND THE LIKE
Robert M. Lehman, Pasadena, Calif.
Application March 5, 1949, Serial No. 79,839
9 Claims. (Cl. 107—54)

1. In a machine for making doughnuts of the type in which dough in ring form is moved therein, a rough-surfaced mandrel encircled by said rings, and means having a flat ring-contacting surface to advance said rings along said mandrel with each radial section rolling therealong to form a skin.



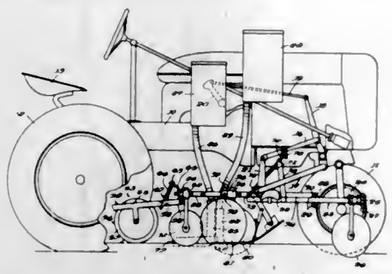
7. A method of making raised doughnuts comprising the steps of forcing dough from a source as a continuous cylinder, severing the end of said cylinder to form a ring, and applying frictional force only to the exterior surface of said ring to roll each transverse section of said ring about its own imaginary center to form an unbroken skin on said ring.

2,611,330
METHOD OF REPAIRING FURNACE WALLS
Lowell M. Kirk, Gary, Ind., assignor to United States Steel Company, a corporation of New Jersey
Application June 19, 1947, Serial No. 755,784
3 Claims. (Cl. 110—1)



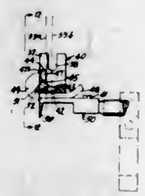
2. In the art of repairing a furnace, a method of replacing a jamb in a vertical side wall thereof which contains an opening and with the furnace at an elevated temperature that normally causes spalling of cold bricks when said bricks are placed in contact with said heated furnace structure comprising preforming a jamb unit of refractory brick, binding the bricks of said jamb unit together with steel straps, preheating said jamb unit to approximately said elevated temperature, mechanically placing said jamb unit in the wall, said jamb unit being at this elevated temperature when placed in the wall thereby avoiding thermal shock, and heating the furnace to a higher temperature sufficient to burn away said straps and fuse the brickwork of said jamb unit.

2,611,331
PLANTER
Gordon R. O'Neil, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application April 3, 1946, Serial No. 659,368
3 Claims. (Cl. 111—73)



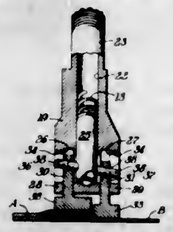
1. In a planter, a frame, a pair of laterally spaced furrow openers mounted on said frame and arranged to open parallel furrows in the earth with a separating wall of earth between the furrows, a material dispenser boot supported from said frame and associated with each said furrow opener for depositing material in the furrow formed thereby, laterally spaced covering devices mounted on said frame and arranged rearwardly of said furrow openers for directing earth inwardly toward said furrows to cover the material deposited therein, and an upright blade secured to one of said dispenser boots and extending rearwardly therefrom to a location between said covering devices, said blade being positioned in one of said furrows and arranged to bear against said separating wall to maintain the wall between said furrows unimpaired until the latter have been covered by said covering devices.

2,611,332
BUTTON ATTACHMENT FOR SEWING MACHINES
Efim M. Shevchik, Orange, N. J.
Application December 6, 1950, Serial No. 199,404
5 Claims. (Cl. 112—108)



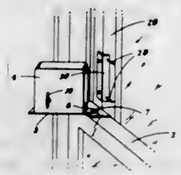
5. In a device of the character described, an L-shaped member having a base wall horizontal and having its other wall vertical, socket means to accommodate the shank of a button formed in part in said vertical wall and formed in part in said base wall, needle clearance slots formed in both said walls and lying on a common plane, and an extension on said channel for attachment to a button sewing machine, both the walls of said channel and the extension all being of substantial thickness to impart extreme rigidity thereto and all thicknesses of said walls and said extension being substantially the same to make them immobile relative to one another.

2,611,333
COMPENSATING PRESSER DEVICE FOR SEWING MACHINES
Herman Ritter, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application February 13, 1951, Serial No. 210,723
7 Claims. (Cl. 112—235)



6. A compensating presser-device for a sewing machine comprising a body member carried by said sewing machine, a spring pressed block journaled for turning and endwise sliding movements on said body member, two presser-feet, means afforded by said body member for confining said presser-feet for movement each in a separate plane, and a connection between said block and each of said presser-feet correlating said presser-feet for reciprocal movement in opposite directions.

2,611,334
BURGLAR ALARM
Everett T. Counts, Stockton, and Harold Breitenbucher, Oakland, Calif.
Application October 10, 1950, Serial No. 189,344
3 Claims. (Cl. 116—91)

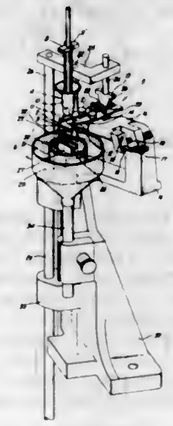


1. In a burglar alarm which includes an alarm device on one relatively movable part of a window or the like, the alarm device having a trigger projecting therefrom, and a trigger trip on the other part in the path of said trigger; an alarm mechanism in said device including an element tending to oscillate, a leaf spring having a lateral tip, means mounting the leaf spring at the end opposite the tip for lateral motion between a first position with the tip clear of said element and a second position with the spring loaded and the tip in the path of and blocking said element, a fixed rod projecting outward adjacent the leaf spring intermediate its ends, a cam pivoted on the rod having a set position holding the spring in said second position and a released position with the spring in said first position, the trigger projecting from the cam in a manner to release the latter upon engagement by the trip.

2,611,335
APPARATUS FOR COATING COILED FILAMENTS
Lee E. Dilts, South Euclid, Ohio, assignor to General Electric Company, a corporation of New York
Application December 22, 1948, Serial No. 66,798
5 Claims. (Cl. 118—33)

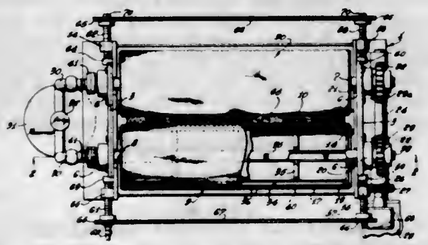
1. Apparatus for coating a coiled filament extending between and secured at its opposite ends

to a pair of flexible leading-in wires extending in the same general direction from the stem of a mount comprising, coating mechanism including an applicator receptacle and means mounting said applicator for vertical reciprocation to carry upwardly a supply of liquid coating material held in said applicator, spreader mechanism located above said coating mechanism, means for supporting a mount adjacent said spreader mechanism and above and in the same general vertical axis as said applicator and with its filament lowermost and in a horizontal position above



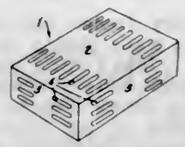
said applicator, and means for concomitantly actuating said spreader and applicator mechanisms to cause said spreader mechanism to engage temporarily the leading-in wires of said mount and spread them apart to stretch the filament and to cause said applicator to rise and immerse the said filament in the coating material while it is held in its stretched position by said spreader mechanism, said last-named means further effecting lowering of said applicator away from the filament followed by disengagement of said spreader mechanism from said leading-in wires to permit contraction of the filament.

2,611,336
RESIN IMPREGNATING MACHINE FOR FABRIC OR LIKE MATERIAL
Carrol C. Sachs, North Hollywood, Calif., assignor to Alexander H. Kerr & Co., Inc., Los Angeles, Calif.
Application June 8, 1948, Serial No. 31,743
12 Claims. (Cl. 118—227)



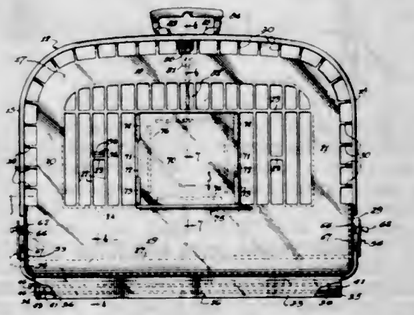
3. In a resin impregnating device, a hollow shaft closed at one end thereof, a cylindrical drum rigidly secured to said shaft, the said drum having an outer and an inner cylindrical shell in spaced relation to each other, radial conduits leading from the space within said hollow shaft to the space between said shells, the outer shell being foraminous, and a conduit leading into the other end of the shaft for feeding fluid under pressure through the shaft, the said radial conduits, the space between the shells and the foramens of the outer shell.

2,611,337
FISH EGG HATCHING DEVICE
Richard Vibert, Oloron Sainte-Marie, France
Application April 5, 1950, Serial No. 154,082
In France April 21, 1949
3 Claims. (Cl. 119—3)



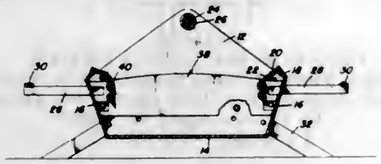
1. A device for transporting spherical fish eggs and effecting the direct hatching thereof in their natural environment under conditions closely simulating natural hatching, which comprises a closed container having a top, a bottom and side walls, said container being adapted to receive said spherical eggs and to be embedded in gravelly river bottoms normally utilized as spawning-grounds by wild breeders, and at least the side walls of said container being provided with a plurality of spaced spertures having a width slightly less than the diameter of said eggs but greater than the smallest dimension of the fry which hatch from said eggs.

2,611,338
PLASTIC BIRD CAGE
Morris Yellin, Chicago, Ill., assignor to Bernard Edward Co., Chicago, Ill., a corporation of Illinois
Application June 29, 1951, Serial No. 234,181
7 Claims. (Cl. 119—17)



1. A bird cage comprising a top and sides integrally connected therewith, lower portions of said sides defining a cage opening for receiving bird droppings, at least one medial rib extending completely along said top and sides and lying in a vertical plane, and cage forming portions extending laterally from both sides of said medial rib and at least partially defining the top and sides of said cage, each medial rib being relatively heavy compared with said laterally extending portions and defining two half-rib sections formed integrally with their adjacent laterally extending portions, whereby the cage may be cast in a plurality of sections and brought together to be integrally joined to form the bird cage.

2,611,339
POULTRY FEEDER
Frank P. E. Quick, North Plainfield, N. J.
Application January 6, 1950, Serial No. 137,207
7 Claims. (Cl. 119—61)



4. In a poultry feeder having an elongated trough and end walls closing the opposite ends of the trough, a feed control unit comprising a plurality of longitudinally spaced, transversely disposed vertical plates disposed in the trough, the bottom edges of the plates being spaced above the bottom of the trough and the opposite end edges of the plates being conformable to the sides of the trough and disposed immediately adjacent thereto, said plates having a plurality of longitudinally aligned openings inwardly spaced from each end thereof, a tie rod extending through each set of said aligned openings, said tie rods being spaced from and below the edges of the trough, and tubular spacers disposed on the tie rod intermediate the plates with the opposite ends of each of the spacers abutting adjacent plates to maintain a predetermined spacing between said plates, and means removably supporting the tie rod on the trough.

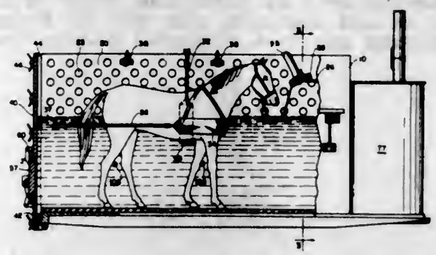
2,611,340
MECHANICAL BOLA
Burwell D. Manning, Columbia, S. C.
Application December 20, 1950, Serial No. 201,848
6 Claims. (Cl. 119—153)



1. In an auto vehicle, a mechanical bola comprising a spring controlled rod swingably mounted at the front of said auto vehicle, means for latching said rod laterally diverted against spring resistance, a cord having a weight at its free end fastened to the tip of said rod normally held taut by said weight, said rod being mounted to whip forcibly under spring pressure in a substantially horizontal plane in front of said automobile when released from said latching means, engendering centrifugal flight of said cord and weight in said plane.

2,611,341
PORTABLE BATHING DEVICE FOR ANIMALS
Hugh P. Paris, Seattle, Wash.
Application August 13, 1948, Serial No. 44,114
4 Claims. (Cl. 119—158)

1. Portable means for giving bath treatments to horses, comprising: a portable horse bathing stall of sufficient depth in which water may be retained so that a horse can be floated off his feet and of sufficient width and length to permit swimming of a horse therein; a watertight door for said stall of a size to permit the passing of a horse therethrough; water-tempering tanks disposed one on each side of said stall; a water heater; an air heater; conduits connecting the bottoms and tops of said tempering tanks with said water heater in a manner permitting thermosiphon circulation therebetween; a power-driven water pump having selective suction conduits connected to the bottoms of said tempering tanks and said stall; a plurality of jet nozzles disposed in position to discharge water into said



stall on a level to strike the legs of a horse and having insert deflectors adapted to produce a swirling action in the water discharge stream; conduits connecting the pressure side of said pump, selectively, to said nozzles or to said tempering tanks through said water heater; power driven air circulating means operatively connecting said hot air heater and said stall; horse positioning and restraining means in said stall; and emergency draining means for said stall.

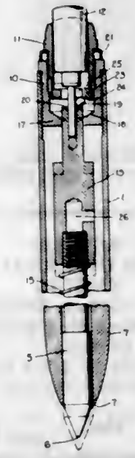
2,611,342
DRIVE CONSTRUCTION FOR MECHANICAL PENCILS
Carl Merryman, Melrose Park, Ill., assignor to Dur-O-Lite Pencil Company, Melrose Park, Ill., a corporation of Delaware
Application January 30, 1951, Serial No. 208,487
4 Claims. (Cl. 120—18)



1. A mechanical pencil comprising a barrel, a lead guide tube having a spiral opening formed in its walls, a tip permanently secured to the lead guide tube and frictionally fitted on the lower end of the barrel, the lead guide tube and tip being jointly removable from the lower end of the barrel, the barrel being tubular and having an inner longitudinal groove, a follower fitted in the guide tube and having a portion extending through the spiral opening and into the barrel groove, the follower being removable from the upper end of the guide tube to permit insertion of lead in said tube, the barrel having a closed upper end, the inner face of the upper end having a lug extending downwardly therefrom and into the upper end of the guide tube.

2,611,343
RETRACTABLE WRITING IMPLEMENT
Francis M. Aimes, Nassau, N. Y., assignor to Imperial Pen & Pencil Co., Inc., Nassau, N. Y., a corporation of New York
Application July 3, 1948, Serial No. 36,870
4 Claims. (Cl. 120—42.03)

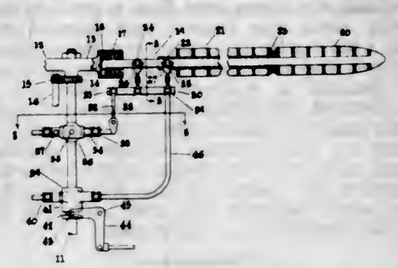
1. A device of the class described, comprising an elongated tubular body, a pair of sleeves arranged one within the other, the outer sleeve being mounted in said body, a writing element slidably mounted in the body and movable into retracted and writing positions, said element including a cylinder part movable in the outer sleeve, said element being normally contained within the boundaries of said body, a plunger slidably mounted in the inner sleeve and protruding from the end of said sleeve and directly coupled with said cylinder part by a reduced portion, a coil spring engaging said body and part to normally support the element within the other end of said body, wall portions of said sleeves, together with the cylinder part and reduced portion of the plunger forming an annular chamber around said part and reduced portion of the



plunger, and a ball of such size as to permit free movement thereof longitudinally and circumferentially in said chamber, said cylinder part having a ball engaging, circular, conically recessed end surrounding the cylinder part, the outer sleeve having a conical recess exposed to said chamber for guiding said ball into the conical end of said cylinder part, said ball being adapted to be wedged between said conically recessed end of said part and the wall portion of the inner sleeve in supporting said element in extended writing position with respect to said body against the action of said spring, and said spring retracting said cylinder part when said ball is released from said wedged position.

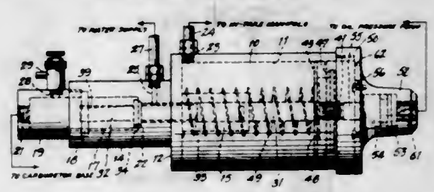
2,611,344
HELICOPTER ROTOR
Edward G. Vanderlip, Silver Spring, Md., and Elliot Daland, Wallingford, Pa., assignors, by mesne assignments, to Piasecki Helicopter Corporation, Morton, Pa., a corporation of Pennsylvania
Application June 6, 1946, Serial No. 674,892
8 Claims. (Cl. 170—160.25)

1. In a helicopter rotor, a composite blade adapted to rotate about the axis of said rotor and comprising an inboard airfoil section and an outboard airfoil section, said sections being independently rotatable about a common axis extending longitudinally of said blade, a beam carried by said rotor for rotation about said rotor axis with said blade, cyclic pitch control means connected pivotally to said beam at a point adjacent one end thereof, collective pitch control means connected pivotally to said beam at a point adjacent the other end thereof, an articulated coupling connecting said inboard airfoil section to said beam at said second mentioned point, and an articu-



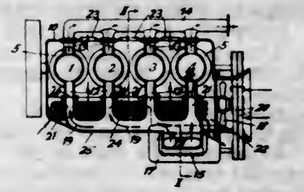
lated coupling connecting said outboard airfoil section to said beam between said points.

2,611,345
WATER OR VAPOR INJECTOR FOR INTERNAL-COMBUSTION ENGINES
Gus Sudmeier, Torrance, Calif.
Application April 11, 1947, Serial No. 740,872
4 Claims. (Cl. 123—25)



1. In a fluid injector for internal combustion engines, a body member having a vacuum chamber and inlet means for connecting said chamber to the intake manifold of the engine to establish pressure communication therewith, a piston movable in said chamber in one direction in response to increase of vacuum therein, and in opposite direction in response to reduction of vacuum therein, a fluid chamber having an outlet orifice for connection to the engine for establishing fluid feed communication therewith, fluid inlet means for supplying fluid to said fluid chamber, movable valve means operatively associated with said piston for movement therewith, and including means for opening and closing said orifice and means for opening and closing said fluid inlet means, and air inlet means for said fluid chamber.

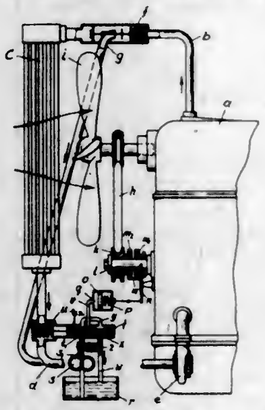
2,611,346
AIR-DUCT MEANS FOR AIR-COOLED INTERNAL-COMBUSTION ENGINES
Konrad Sonderegger, Winterthur, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application March 10, 1948, Serial No. 14,038
In Switzerland March 14, 1947
2 Claims. (Cl. 123—41.7)



2. In a multi-cylinder, air-cooled internal combustion engine having its cylinders arranged in-

line, said cylinders being provided with cooling fins, a jacket surrounding the cylinders for guiding cooling air along said fins, a cowl extending laterally along the engine and flanged to the jacket, a blower for delivering cooling air through said cowl and into said jacket, combustion air ducts flanged to each cylinder, said air ducts being formed integrally with the cowl and extending internally along the wall thereof to provide for an unobstructed passage of cooling air through said cowl, the flange joints between said combustion air ducts and the cylinders and the flange joints between the cowl and said jacket being all situated in a single plane.

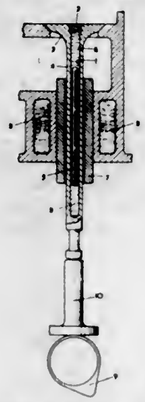
2,611,347
CONTROLLABLE COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Friedrich K. H. Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application January 13, 1950, Serial No. 138,279
In Germany December 6, 1948
18 Claims. (Cl. 123—41.12)



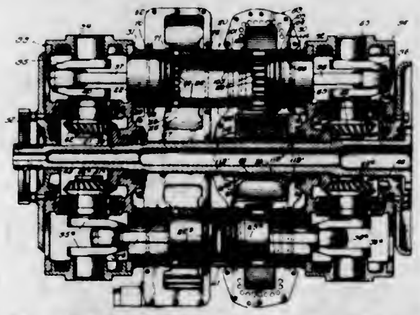
13. A recooling device for the cooling fluid of an internal combustion engine, comprising a cooler for the cooling fluid, a supply conduit from the engine to the cooler, a return flow conduit from the cooler to the engine, a by-pass between the supply and return conduits, a thermostat located in the by-pass for controlling the flow of fluid through the by-pass in response to the temperature of the cooling fluid, a fan for delivering air through the cooler, a further thermostat in the return conduit, and a control device for controlling the output of the fan in response to the control position of the further thermostat, both thermostats being so calibrated that upon an increase in the temperature of the cooling fluid the by-pass is first closed and the fan is thereafter rendered operative.

2,611,348
INTERNAL-COMBUSTION ENGINE POPPET VALVE COOLING
Frank E. Lindsay, Birmingham, England, assignor to The Austin Motor Company Limited, Birmingham, England
Application May 8, 1950, Serial No. 160,648
In Great Britain May 16, 1949
6 Claims. (Cl. 123—41.16)

1. An internal combustion engine poppet valve having a sealed hollow valve stem containing a fluid medium and a displacement member, said member being solid in transverse cross section at least throughout a portion thereof, and free to move in the valve stem hollow and which, owing to the inertia effect, lags behind the valve movement so as to displace said cooling medium around the periphery of said member as the valve reciprocates.



2,611,349
OPPOSED PISTON INTERNAL-COMBUSTION ENGINE
Walter A. Parrish, Grosse Pointe Woods, Mich., assignor to Research Engineering Corporation, a corporation of Indiana
Application January 18, 1950, Serial No. 139,228
30 Claims. (Cl. 123—51)

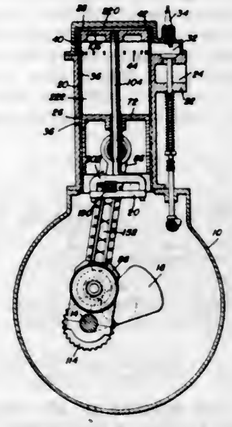


7. In a diesel engine having a plurality of parallel cylinders, a pair of opposed pistons in each cylinder, a crankshaft for each piston, a rotatably mounted drive shaft parallel to the cylinders, and gear means connecting the crankshafts to the drive shaft, porting means comprising, a plurality of piston controlled exhaust and intake ports in each cylinder, an exhaust manifold having a portion surrounding the exhaust ports and having a chamber surrounding the drive shaft, an exhaust passage in the manifold connecting the portion to the chamber, an outlet passage in the manifold opening to the atmosphere, a rotary valve in the chamber and mounted on the drive shaft, said valve having a hollow body portion and a valving rim, and an opening in the rim for each passage with the openings controlling the passages.

2,611,350
COMBINED PUMP AND MOTOR CYLINDER
John J. Keough, Marlboro, Mass.
Application May 23, 1950, Serial No. 163,626
9 Claims. (Cl. 123—66)

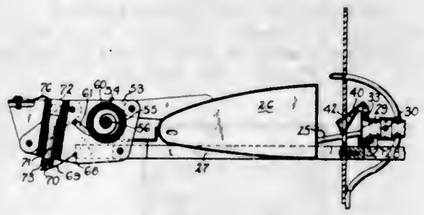
4. An internal combustion engine comprising a cylinder, main and auxiliary pistons slidable

therein, a crankshaft, a piston rod assembly connecting said main piston to said crankshaft, operating means connecting said auxiliary piston to said main piston for relative movement, a worm drive operable upon rotation of said crankshaft for actuating said operating means, said worm drive including a worm journaled on said



piston rod assembly, a worm follower slidable axially of said worm, said follower constituting part of said operating means, said piston rod assembly comprising a hollow piston rod, said worm and follower being mounted in said piston rod, a slot in said piston rod, said follower extending through said slot.

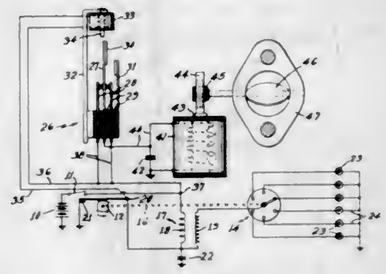
2,611,351
ENGINE CONTROL FOR MODEL AIRPLANES
Harold T. Horner, Milford, Conn.
Application April 27, 1949, Serial No. 89,946
18 Claims. (Cl. 123—97)



1. A speed-control device for the motor of a model airplane comprising valve means, a rockable arm connected to said means to actuate the same, a rotatable crank member for moving said arm in opposite directions and means for rotating said crank member and constraining its rotation to a step-by-step movement.

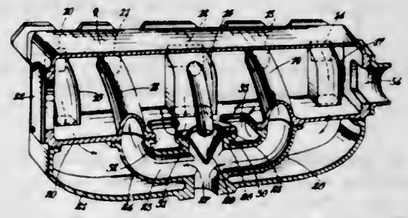
2,611,352
ELECTROMECHANICAL SPEED GOVERNOR
Cecil Patrick Molyneux, Hampton Bays, N. Y., assignor to Molyneux and Aspinwall, Inc., Long Island City, N. Y., a corporation of New York
Application January 17, 1950, Serial No. 139,106
11 Claims. (Cl. 123—102)

1. A speed governor for an internal combustion engine having an electric battery and a contact breaker driven by the engine in circuit with the battery, a tuned reed having a fixed end and a free end adapted to be vibrated at the natural frequency of the reed, an armature mounted on the free end of the reed, electric means adjacent the armature for producing a magnetic field acting on the armature, means including a current lead for supplying current from said circuit of the contact breaker to said



electric means at the frequency produced by the contact breaker, a switch associated with the reed and adapted to be closed upon vibration of the reed at its natural frequency, means for supplying current from the battery to one side of said switch, means for reducing the speed of the engine including an electric power means, and a current lead from the other side of said switch to said electric power means.

2,611,353
EXHAUST AND INDUCTION SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Gilbert James Allday, Weybridge, England
Application June 16, 1949, Serial No. 99,564
In Great Britain May 11, 1949
8 Claims. (Cl. 123—127)

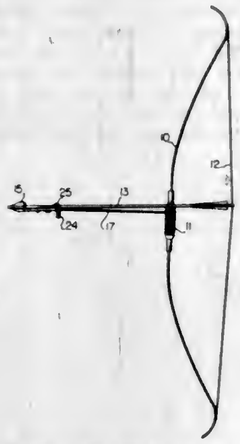


1. An exhaust and induction system for an internal combustion engine comprising two closed compartments having a dividing wall between them with openings therein, exhaust conduits and induction conduits extending through one of said compartments, which exhaust conduits open into the second compartment and an exhaust outlet communicating with the first said compartment, and an induction manifold in the second compartment having branch passages communicating with said inlet conduits in the first said compartment.

2,611,354
ARROW GUARD
James W. Harvey, Lakeville, Conn.
Application December 15, 1948, Serial No. 65,313
8 Claims. (Cl. 124—23)

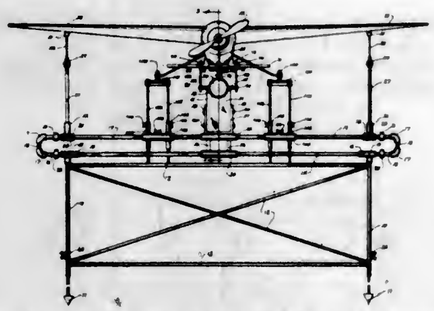
1. A safety attachment for a bow and arrow comprising a detachable guard for the head of

the arrow and elastic connecting means between



the handle of the bow and the guard for holding the arrow nocked on the bow string.

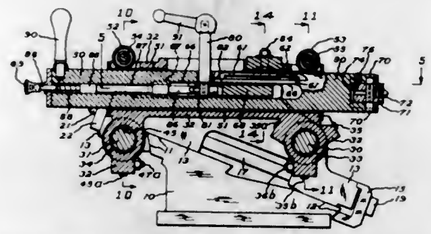
2,611,355
CATAPULT FOR LAUNCHING MODEL AIRPLANES
Norman D. Ashwood, Victoria, British Columbia, Canada
Application July 29, 1949, Serial No. 107,398
2 Claims. (Cl. 124—26)



1. A catapult for launching a model airplane comprising a supporting structure having transverse bar members, a pair of runways supported on vertically adjustable uprights, said uprights being laterally adjustable on said transverse bars to accommodate landing wheels of various types of airplanes, upright supports carried by said transverse bars disposed at opposite sides of said runways, said upright supports being vertically and laterally adjustable with respect to said transverse bar members, a rail member connected to the upper ends of said upright supports and extending parallel with said runways for engaging and supporting respective wings of the airplane.

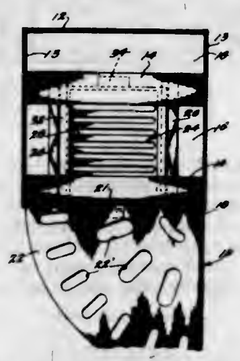
2,611,356
GRINDING WHEEL TRUING APPARATUS
Carl G. Flygare and Raymond D. Ellison, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application September 8, 1950, Serial No. 183,688
2 Claims. (Cl. 125—11)

1. In a grinding wheel truing apparatus having a frame, a longitudinally movable carriage, anti-friction rollers on said carriage to support the carriage, a transversely movable cylindrically-shaped slide bar on said carriage, anti-friction rollers on said carriage to support said slide bar, a truing tool holder pivotally mounted on one end of said slide bar, a truing tool thereon, a plurality of spaced index depressions in the upper surface of said truing tool holder, a set screw on said slide bar engageable with one of said depressions to facilitate indexing the truing tool into one of a plurality of predetermined positions, a follower pivotally mounted on said slide bar in alignment with said truing tool, a plurality of spaced V-shaped notches formed on said follower holder, said notches being spaced to cor-



respond with the spacing of the depressions on the truing tool holder, a V-shaped detent slidably mounted on said slide bar for engaging one of the said notches to facilitate positioning the follower precisely in correspondence with the truing tool holder, said follower being shaped identical with said truing tool, a forming bar on said frame having a shape identical with that to be trued on a grinding wheel, and manually operable means on said slide bar to facilitate moving said slide bar transversely and said carriage longitudinally to maintain the follower in operative engagement with said forming bar so as to true a predetermined shape on the operative face of a grinding wheel.

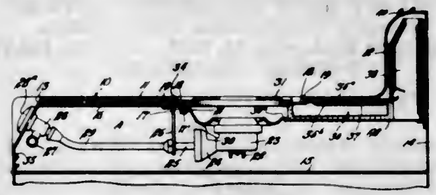
2,611,357
PORTABLE BROILING STOVE
Thomas W. Turner, Newport News, Va.
Application March 29, 1949, Serial No. 84,107
1 Claim. (Cl. 126—25)



A portable broiling stove, comprising a substantially rectangular housing having its front and bottom sides open and its side walls depending below the front and rear sides to space the open bottom side above a supporting surface, a pair of spaced, relatively narrow, plates extending transversely of the open bottom side of said housing, leg forming portions downturned from the opposite ends of said plates and

contacting the inner sides of the lower portions of said side walls of the housing, a pair of spaced guide elements supported on the lower sides of said plates and extending rearwardly from the front side of the housing, a fuel drawer, constituting a charcoal burning grate, slidably supported by said guide elements and having a perforated bottom and an open top, a door hinged at one side of the open front of said housing, a sector-shaped broiling plate supported from the inner side of the lower edge of said door and having a plurality of slotted openings therein, and a vertical wall rising from the inner of the radial edges of said plate and connecting with the vertical edge of said door adjacent the hinged connections thereof with the housing, said vertical wall acting to close the open front of said housing when said door is moved to fully opened position.

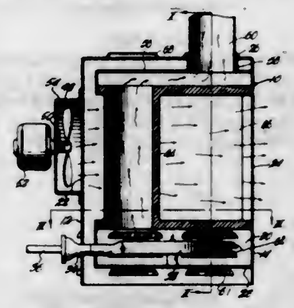
2,611,358
GAS RANGE
Robert S. Taylor, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application July 10, 1945, Serial No. 604,146
5 Claims. (Cl. 126—39)



3. A gas range having a top working surface with a flame opening, a grate mounted in the opening with its top flush with the top working surface so that cooking utensils may be slid from the working surface over the flame opening, a gas burner underlying the flame opening, means for supplying gas to the burner including an air mixing tube, a compartment formed in part by the top working surface for enclosing the burner and gas supplying means, said compartment having an inlet opening for air and an outlet opening for the products of combustion, and a flue conduit in said compartment independent of said top working surface and having means at one end surrounding the burner and flame opening below the top working surface and an opening at its other end adjacent the outlet opening for combustion products.

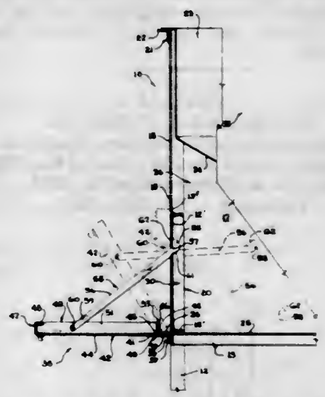
2,611,359
FORCED AIR FLOW UNIT AIR HEATING FURNACE
Clifford A. Scogin, Kansas City, Mo.
Application March 27, 1950, Serial No. 152,116
2 Claims. (Cl. 126—110)

1. A heater comprising a hollow, open bottom shell having a top wall and a number of side walls, one of the side walls having an air outlet opening formed therein; an open top burner tray; an open bottom plenum tray overlying the burner tray; a heat exchange unit between the trays, said unit having a top wall and a bottom wall interconnecting the trays in closing relationship to the plenum tray and to the burner tray respectively, said unit having a number of spaced, elongated tubes having vertical, longitudinal axes, said tubes extending through said walls of the unit, placing the trays into communication with each other, said unit and said trays being mounted within the shell, spaced below the top wall of the shell, and spaced from the remaining side walls of the shell; a burner in the burner tray underlying said unit; a flue in register with the plenum tray and extending upwardly therefrom through said top wall of the shell, said remaining side walls of the shell and the burner tray each having a number of inlet ports, the inlet ports of the shell being near the open bottom thereof, the inlet ports of the burner tray being adjacent the inlet ports of the shell,



whereby natural air currents pass into the shell and into the burner tray through the inlet ports for upward movement exteriorly and interiorly of said tubes, there being a number of air outlet ports in said top wall of the shell and an air inlet opening in a second of said side walls; and a fan carried by the shell for producing artificial currents of air, said fan being mounted on the second side wall in alignment with the air inlet opening of the second side wall for directing said artificial currents of air through said air inlet opening of the second side wall and thence against the outermost faces of tubes.

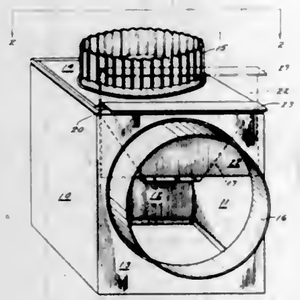
2,611,360
COMBINED BRACKET AND LATCH FOR OVEN DOORS
Victor A. Benson, Santa Clara, Calif.
Application October 21, 1950, Serial No. 191,426
2 Claims. (Cl. 126—191)



1. A door structure for a barbecue warming oven comprising an upright door frame, an outwardly extending hinge support element mounted at the lower edge of said frame, a door hinged along its lower edge to an outer portion of said hinge support element, and of a thickness to close against said frame, a combined bracket and latch for said door comprising a strap having a sub-

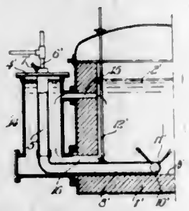
stantially straight lower edge and pivotally connected to said door a predetermined distance from its hinged lower edge, said strap extending through a slot formed in said door frame and having an enlarged end engageable with said frame to hold said door in open position, and a floor in said slot acting as a fulcrum to cooperate with said strap when said door is raised a predetermined distance toward its closed position to effect a counterweighted lever action by said strap, between said slot floor and said door for urging the latter toward closed position.

2,611,361
COMBINATION NEUTRAL PRESSURE POINT ADJUSTER AND DRAFT DIVERTER
Carl B. Lockhart, Youngstown, Ohio
Application April 20, 1950, Serial No. 156,976
4 Claims. (Cl. 126—307)



1. A combination draft diverter and neutral pressure point adjuster comprising a box-like device open at its bottom and having inlet and outlet openings communicating therewith, and a baffle positioned between said openings, said inlet opening formed in one of the side walls of the said box-like device, a transverse slot in the top wall of the said device adjacent the wall in which the said inlet opening is formed, guides positioned on the oppositely disposed side walls of the device adjacent the wall in which the said inlet opening is formed and a body member movably positioned through said slot and in registry with said guides and partially closing the said inlet opening.

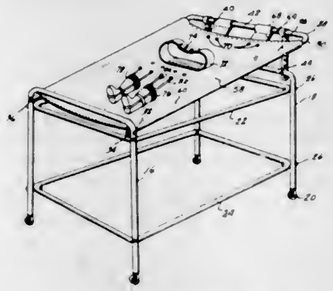
2,611,362
SUBMERSIBLE BURNER
Norman Swindin, London, England
Application March 31, 1947, Serial No. 738,361
In Great Britain April 3, 1946
6 Claims. (Cl. 126—360)



1. The method of heating pickle liquors, which comprises burning a combustible mixture, mixing water with the combusted gases to generate a water vapor content in said gases, and discharging the combusted gases and their water vapor content into a body of the liquors below the upper surface thereof, and passing the gases and vapors through the liquors to compensate for the water evaporated from said liquors and prevent incrustation in the zone of discharge of the combusted gases.

3. A submersible burner for heating iron and steel pickling liquors, comprising in combination, a combustion chamber arranged to depend into a body of pickling liquor, means on the upper end of said combustion chamber for supplying a mixture of combustible gases thereto, means extending within said combustion chamber for igniting said combustible gases, an extension tube connected to the lower end of said combustion chamber to receive combusted gases therefrom and arranged to extend in the lower portion of said body of liquor, said extension tube being formed with a plurality of outlet orifices, and a conduit connected with said extension tube in advance of said outlet orifices for delivering a supply of water to said tube for heating by the combusted gases and generating steam for discharge with said gases through said orifices.

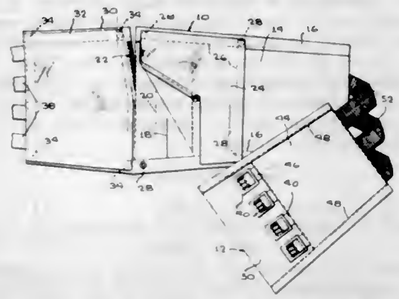
2,611,363
SAFETY BODY SUPPORTING DEVICE
Robert J. Peters, Coeur d'Alene, Idaho
Application September 26, 1950, Serial No. 186,777
5 Claims. (Cl. 128—134)



5. In a leg restraint means the combination, with a body supporting member, of a pair of boots supported upon said member longitudinally thereof and shaped to enclose the feet and part of the legs of a person supported on said member, and means on the member and on the boots for attaching said boots to the member, said means including straps having their intermediate portions arranged transversely of the foot portions of the boots and extending therearound, said straps having their end portions extending longitudinally of the leg portions of the boots along opposite sides thereof and projecting beyond said leg portions of the boots, cooperating separable fastener elements on the ends of the straps and on said member, and elastic bands encircling the leg portions of the boots and encompassing the straps for retaining the straps on the boots.

2,611,364
COLOSTOMY BELT
Lois S. Mann, Waterville, Vt.
Application November 23, 1951, Serial No. 257,802
5 Claims. (Cl. 128—283)

1. In a colostomy belt, a pair of connected, flexible panels, one of which is adapted to extend across the abdomen of the body of a wearer and the other of which is adapted to extend partially around said body, said first named panel comprising a pair of separably joined panel members



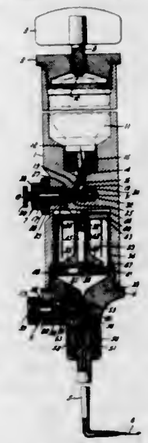
each of which is adapted to receive and hold against said body an absorption pad.

2,611,365
HIGH-FREQUENCY THERAPEUTIC APPARATUS
Harry S. Rubens, Manhasset, N. Y., assignor to National Electric Instrument Company, Inc., Elmhurst, N. Y., a corporation of New York
Application January 3, 1949, Serial No. 69,017
2 Claims. (Cl. 128—303.13)



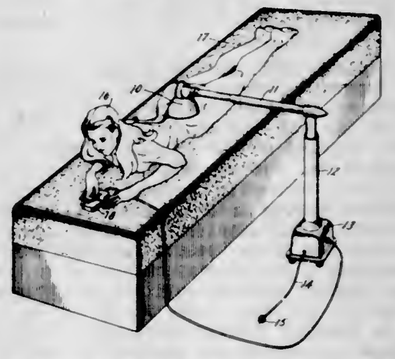
1. A handle for high frequency therapeutic electrodes comprising a pair of complementary elongated members hollowed out to provide separated channels for pairs of electric conductors, electrode sockets at one end of said handle, a switch in one of said channels, and substantially tubular retaining members fitting over and engaging the ends of said complementary members to lock the same together, one of said tubular retaining members assisting in retaining electrodes in said sockets.

2,611,366
SUTURE GUN
Bruce D. Mull, Tullahoma, Tenn.
Application November 20, 1951, Serial No. 257,229
4 Claims. (Cl. 128—340)



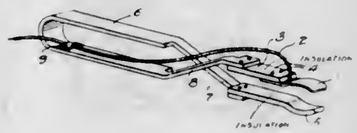
1. A suture gun comprising a tubular needle and a handle therefor, a first gas chamber in said handle adapted to contain gas under pressure, a spool chamber in said handle, a first passageway connecting said spool chamber to said needle, a second passageway connecting said first gas chamber with said spool chamber, a valve controlling the passage of gas through said second passageway, a second gas chamber adjacent said first passageway, an opening connecting said second gas chamber with said first passageway, a spring-pressed holding member extending through said opening, a piston in said second gas chamber connected to said holding member and a third gas passageway from said spool chamber to said second gas chamber.

2,611,367
THERAPEUTIC LAMP SUPPORT AND CONTROL
Robert J. Harkenrider, Winona, Minn., assignor to Rudolph W. Miller, Winona, Minn.
Application February 12, 1949, Serial No. 76,080
11 Claims. (Cl. 128—396)



4. In apparatus of the class described, a lamp adapted to provide a source of radiant energy, a movable support mounting the lamp for movement to different operative positions, position indicating means for indicating the position of the lamp in each of its operative positions, and position copying means operatively connecting the position indicating means and the movable support such that movement of the indicating means effects corresponding movement of the lamp.

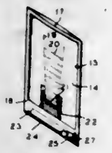
2,611,368
GERMAN SILVER ELECTROCARDIOGRAPH CONTACT ELECTRODE
Louis J. Pecora, Garrett Park, Md., assignor to the United States of America as represented by the Administrator, Federal Security Agency
Application January 10, 1950, Serial No. 137,832
1 Claim. (Cl. 128—418)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A self-tensioning electrode for electrocardiographs which comprises a single German-silver contact member, an electrical lead directly connected thereto, an electrically insulated clamping member opposed to said contact member and adapted for movement toward and away from

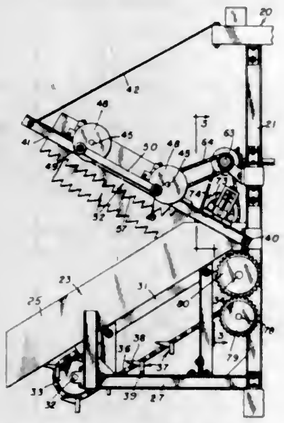
said contact member, and a U-shaped spring having a pair of double-offset fingers, one of said fingers being connected to said clamping member and the other finger being connected, through insulation, to said contact member, said spring being adapted to urge said clamping member toward said contact member, whereby said contact member is adapted to be uniformly pressed against the limb of a small animal engaged between said members.

2,611,369
ALBUM PHOTO HOLDER OR MOUNTING
Robert E. Herrick, Brooklyn, N. Y.
Application March 8, 1948, Serial No. 13,658
7 Claims. (Cl. 129—20)



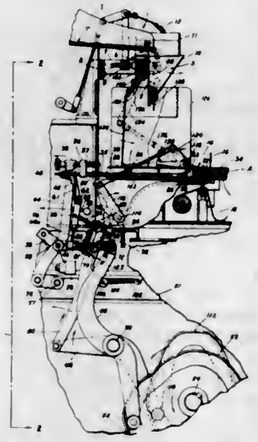
5. A photo and negative holder comprising a body formed of sheet material folded on itself to form an envelope having a back and a front, open at one end and closed at the other end, a window formed in the front to expose a photo positioned in the envelope, weakened longitudinal lines formed in the back, weakened transverse lines formed in the back and extending between said longitudinal lines whereby upon selective severance along these weakened lines a flap of any desired length may be formed for retaining a negative between said flap and the closed end of the envelope, and thereafter the photo may be inserted through the open end to retain the flap in position for preventing loss of the negative.

2,611,370
VINE FEEDING ATTACHMENT FOR VINE THRESHERS
Claude L. Key, Milton, Oreg.
Application May 15, 1947, Serial No. 748,279
3 Claims. (Cl. 130—1)



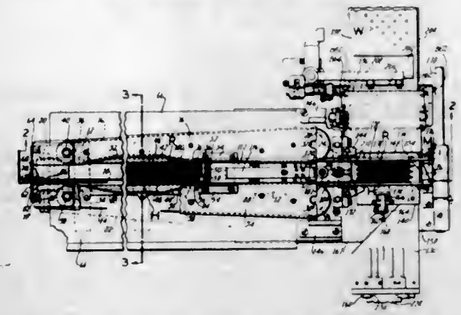
1. A feeding attachment for a vine thresher, comprising a vertically inclined chute having means for attaching the upper end thereof to a thresher, a frame mountable on the mouth of a thresher over the upper end of the chute, a series of parallel plates carried by the frame and disposed in vertical planes and having lower edges provided with saw teeth, said saw teeth each including a substantially vertical surface opposed to the feed, means operatively connected to the plates to bodily gyrate in a vertical plane the entire plates in a direction that the lower portions thereof move opposite to direction of feed and alternate plates move out of phase, and a drag conveyor moving upwardly over the chute and toward said plates.

2,611,371
GATE MECHANISM FOR CIGAR BUNCH MACHINES
Sterling T. Gustavson, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application February 15, 1947, Serial No. 728,904
5 Claims. (Cl. 131—21)



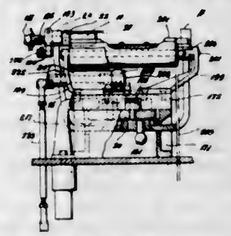
1. In a cigar machine, the combination with a magazine containing a column of tobacco, of a gate pivotally mounted on said magazine and forming a part of one wall thereof when closed, a reciprocable plunger within said magazine adapted to compress the tobacco therein, means for moving said plunger forwardly in said magazine to compress the tobacco column therein, an actuator connected to said gate and adapted to open said gate to permit tobacco to be delivered to said magazine, a roller connected to said actuator, a link having an L-shaped slot engaging said roller, said slot having a transverse portion extending transversely of said link and a longitudinal portion extending longitudinally of said link, an oscillating member, a latch lever, a latch plate on said oscillating member, a device on said oscillating member operative when said latch lever engages said latch plate to maintain said device in engagement with said link and restrict the movement of said roller to said longitudinal portion of said slot, means operated by said plunger operating means for moving said latch lever to unlatching position relative to said latch plate and effect the movement of said device on said oscillating member away from said link, means operative substantially simultaneously with the movement of said device out of engagement with said link to displace said link transversely to position said roller in said transverse portion of said slot, and mechanism for moving said link longitudinally whereby said actuator will be operated and said gate will be opened when said roller engages the transverse portion of said slot.

2,611,372
PROCESS AND APPARATUS FOR FORMING TOBACCO BUNCHES
Pontus Peterson, Garden City, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application June 20, 1946, Serial No. 678,072
18 Claims. (Cl. 131—39)



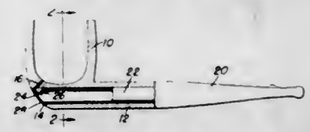
1. The combination with mechanism for forwarding a plurality of substantially horizontal streams of different types of tobacco, said mechanism including parallel and mechanically separated channels having a common movable bottom, of means for severing lengths of tobacco from the leading ends of said streams and assembling them to form a composite column having one type of tobacco extending from top end to bottom end along one side of the column and another type of tobacco extending from top end to bottom end along the other side of the column, and means for separating bunch charges from one of said ends of said column to provide a bunch charge containing measured amounts of each of said tobaccos.

2,611,373
RIDER PLATE CONSTRUCTION
Joseph A. Neumair, Hollis, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application December 5, 1945, Serial No. 632,836
4 Claims. (Cl. 131—52)



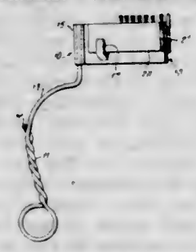
1. In a cigar bunch rolling mechanism, the combination with a rolling apron adapted to support a bunch charge, of a rolling pin adapted to move a loop in said rolling apron forwardly to cause the loop to coil the bunch charge upon itself and then roll the rolled charge within a binder positioned on the rolling apron, said rolling pin being provided with eccentric trunnions, a movable support in which said trunnions are mounted, a rider plate pivotally mounted on the trunnions of said rolling pin adapted to be swung from a rearward position into a forward position overlying the bunch charge on the apron to hold the same while it is being coiled upon itself, the clearance between said pin and plate being greater when the plate is at its rearward position than at the forward position thereof, means for moving said support forwardly while said rider plate is in its forward position to roll said charge upon itself and within a binder and then return said support with said rolling pin and rider plate to an initial rearward position, and means for swinging said plate from a rearward to a forward position and to a rearward position during the forward movement of said support and subsequently swinging said plate to a forward position at the rearward position of said support, the rolling apron extending between said rider plate and rolling pin whereby when said plate is swung rearwardly the clearance between the same will be sufficiently increased to permit passage of the rolling apron therebetween, while said support returns to rearward position, without interference by accumulations of paste and tobacco on said apron.

2,611,374
PIPE
Harold E. Plough, Laporte, Minn., assignor of one-half to Harold R. Mitchell, Bemidji, Minn.
Application June 22, 1950, Serial No. 169,614
4 Claims. (Cl. 131—223)



1. A pipe comprising a bowl, a shank integrally formed with the bowl and including forward and rear open ends, said bowl having a downwardly and forwardly inclined passage in its lower wall entering the forward end of said shank at the outer periphery of said bowl, a mouthpiece including a tubular extension received in said shank, said extension including a forward end underlying said passage, a closure plate at the forward end of said extension in inclined relation to the longitudinal axis of said extension, said extension having an opening therein adjacent said plate adapted to register with said passage when the plate is moved by rotating the extension to a position for closing the open forward end of said shank, said bowl having an outer surface at the forward end of said shank flush with said plate when said opening is registered with said passage, said passage being exposed to the atmosphere through the forward end of said shank when the extension is rotated to incline the plate in the same direction as the passage.

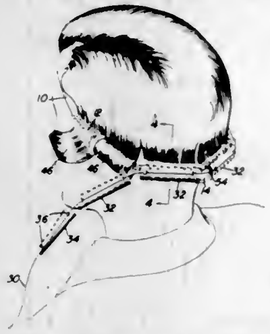
2,611,375
COMBINED EYELASH BRUSH AND COMB HOLDER
Olive Grim Bablon, New York, N. Y.
Application March 9, 1950, Serial No. 148,601
6 Claims. (Cl. 132—19)



1. A combined eyelash brush and comb of the character described comprising a frame formed

to provide gripping means and having plural diverging arms extending therefrom, an arcuate holder, means for securing said holder to said arms, plural punchings formed to provide clamps on both sides of said holder, an arcuate comb arranged to be secured in some of said clamps and an arcuate brush arranged to be secured in the remainder of said clamps.

2,611,376
HAIRCUTTING AND CURLING DEVICE
Marjorie E. McIntyre, Valdosta, Ga.
Application March 14, 1950, Serial No. 149,471
4 Claims. (Cl. 132—40)



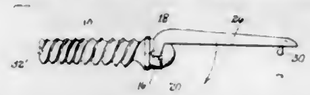
1. A hair dressing device comprising a flexible band adapted to encircle a head of hair, a plurality of cylindrical shaped sleeves secured thereto in endwise spaced relation, means for securing a tress of hair wound upon each sleeve, said securing means comprising a second set of concentric sleeves each adapted to embrace one of said first mentioned sleeves, a second flexible band, said second set of sleeves being secured in endwise spaced relation in said second band, and clip means carried by said first sleeves for clamping said second set of sleeves to said first mentioned sleeves.

2,611,377
HAIR CURLING DEVICE
Ethel T. Barnes, Evanston, Ill.
Application February 7, 1951, Serial No. 209,792
15 Claims. (Cl. 132—40)



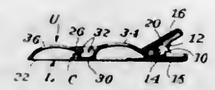
1. A hair curler comprising a circular base member, a cone member upstanding from the center of the base member and provided with an axial slot adapted to receive a lock of hair, means secured to one of said members for securing the hair in the slot, a circular cover having a central opening adapted to receive the cone member, an annular flange depending from the edge of the cover and provided with oppositely facing cut-away portions each joined with the central opening by an elongated slot and with one of said portions including the free edge of the flange adjacent thereto, said cover being adapted to be positioned over the base member with the cone member in the opening and with the free edge of the flange closely adjacent the base member to form therewith an annular chamber, and said cover being rotatable about the cone member relative to the base member to wind a lock of hair positioned in the axial slot about the cone member to form a curl.

2,611,378
HAIR CURLING DEVICE
Etta E. King and Domenic P. Tata, Leominster, Mass.; said Tata assignor to said King
Application October 19, 1948, Serial No. 55,326
1 Claim. (Cl. 132—41)



A hair curling and waving device comprising a tapered body, a rotatable collar thereon, a swinging hair hold down device, a pair of inturned ears on the latter, said collar having an open recess receiving the ears, means secured to the body and overlying said recess and collar to hold the latter and the hold down device to the body, said means comprising a headed rivet and a shank on the rivet, the shank passing through the collar and between the ears and into the body, the hold down device being tapered correspondingly to the body, means to latch the hold down device to the body at the narrow end thereof, the hold down device being spaced from the body, the spacing increasing from the narrow end of the body to the wider end thereof, the body being spirally grooved on an increasing pitch from the narrow to the wide end.

2,611,379
CURL FORMING DEVICE
Ernest Hoffmann and Claude D. Gresham, Omaha, Nebr., assignors to Tip-Top Products Company, Omaha, Nebr., a corporation of Nebraska
Application August 2, 1950, Serial No. 177,265
4 Claims. (Cl. 132—46)

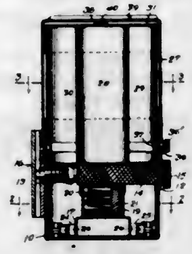


1. A curl forming device comprising lower and upper arms pivoted together at one end of the device and having means for yieldingly urging said arms toward one another, said upper arm having a curl forming die intermediate its ends to enter the center of a wound curl and being upwardly arched on opposite sides of said die to embrace the outside of the formed curl, said die being of cup-like form with a relatively small downwardly presented base portion and a relatively wide upwardly presented lip portion, said base portion having a central opening extending therethrough and said lip portion being of diameter greater than the width of said lower arm, said die having an upwardly and outwardly flaring substantially continuous curved side wall sloped for expansion of the inside of the curl with the individual strands of hair arranged in symmetrical spirals.

2,611,380
TOILET KIT
Abraham Grower, New York, N. Y.
Application July 7, 1950, Serial No. 172,475
9 Claims. (Cl. 132—80)

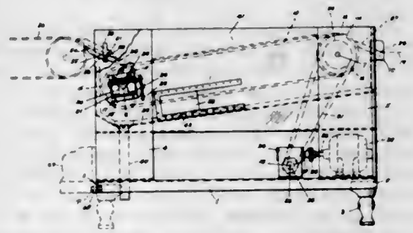
1. A toilet kit which comprises a casing having a closed bottom and an open top, said casing having opposed apertures in its side walls above the bottom, a safety razor having a detachable handle

and supported on said casing in said apertures, the head of the razor disposed in snug relation



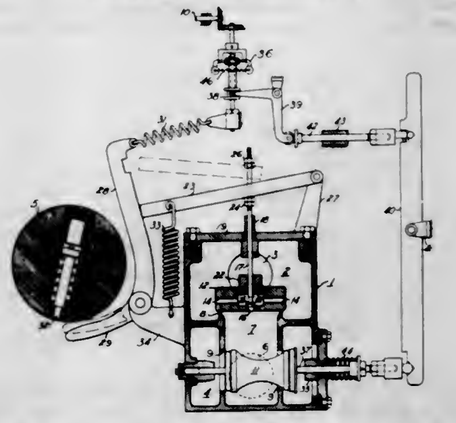
against the outer wall of the casing on the end of the handle.

2,611,381
TILTING DEVICE FOR TABLEWARE USED IN CONJUNCTION WITH THE CONVEYING BELT OF A DISHWASHING MACHINE
Patrick Henry Davis, Erie, Pa., assignor to Champion Dish Washing Machine Company, Erie, Pa., a corporation of Pennsylvania
Application April 23, 1948, Serial No. 22,873
4 Claims. (Cl. 134—67)



1. In combination with the conveying belt of a dish washing machine, a tilting device for tableware adapted to be disposed at the discharge end of said conveying belt comprising a frame, longitudinally spaced, parallel shafts journalled in said frame, driving and driven belt-receiving cylindrical members mounted on said shafts, means for driving one of said members, a conveying belt trained over said members, longitudinally extending, transversely spaced tilting members disposed on said frame and being inclined downwardly in the direction of the movement of said conveying belt on said tilting device and having the lower end thereof adjacent said conveying belt on said tilting device and having the upper end thereof adapted to be adjacent the discharge end of said dish washing machine, transverse shafts supported by said frame for supporting said tilting members, said tilting members each having the top surface thereof broken in two connected plane surfaces defining an obtuse angle longitudinally thereof, the upper angular top surfaces having greater angularity and less length than the lower angular top surfaces of said tilting members adjacent said conveying belt on said tilting device with respect to a horizontal plane whereby tableware passing from the discharge end of said conveying belt of said dish washing machine to the upper end of said tilting members are tilted to an angle over forty degrees to remove pooled water from recesses therein and the lower top surface changes the angular relationship of said tableware on said tilting members after the tilting operation to approach the horizontal plane of the top of said conveying belt on said tilting device.

2,611,382
OVERSPEED TRIP VALVE MECHANISM
Edward M. Kuemmerlein, Wauwatosa, and Coleman A. Newland, Waukesha, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 15, 1946, Serial No. 654,758
9 Claims. (Cl. 137—57)

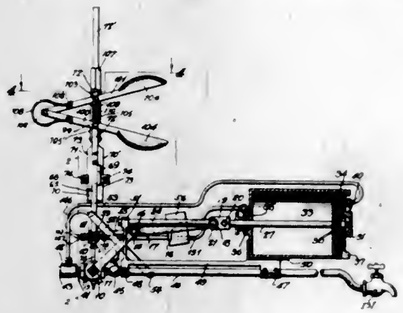


8. A trip valve for controlling fluid pressure flow to a prime mover responsive to overspeed thereof, and comprising a casing having a passage therein for fluid pressure flow and providing a valve seat, a valve cooperable with said seat for closing said passage, means for supporting said valve for guided movement toward and away from said seat, and operating means having an actuable portion extending exteriorly of said casing and having a lost motion connection means with said valve for positively moving said valve against said seat by movement of said operating means to a first position, movement of said operating means to an opposite second position leaving said valve free to be moved to open position, said valve including duct means extending therethrough for placing an upstream portion of said passage in communication with a downstream portion thereof when said valve is in its closed position, said lost motion connection means including a part operable to close said duct means when said operating means is in said first position and operable to at least partially open said duct means when said operating means is in said second position, and said exterior actuable portion and the upstream side of said valve presenting an effective area somewhat less than that presented by the downstream side thereof whereby when the pressure in said passage is equalized on opposite sides of said valve, said valve will automatically move to a predetermined open position.

2,611,383
AUTOMATIC WATER CUTOFF AND DRAIN
Carl E. Tally, Cleburne, Tex.
Application August 7, 1946, Serial No. 688,812
1 Claim. (Cl. 137—61)

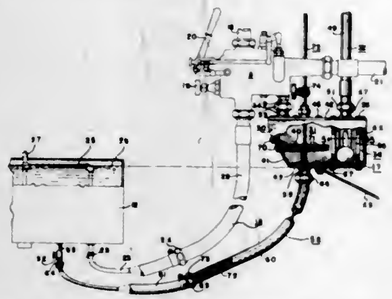
In combination, a cut-off valve, a lever having one end connected to said valve and provided with an opening in its other end, a rod having an apertured end arranged contiguous to said opening, a securing element connecting said apertured end to said lever, a crosshead mounted on said rod, a guide bar extending from said crosshead, there being a tapped aperture in said crosshead, a piston rod having a threaded end engaging said tapped aperture, a cylinder, a piston reciprocably arranged in said cylinder and mounted on said

piston rod, a head closing an end of said cylinder, a nipple extending from one end of said cut-off valve, a T connected to said nipple for receiving water from a source of supply, a pipe leading from the opposite end of said cut-off valve, a bracket mounted on said pipe for supporting said cylinder, a portion of said bracket forming a guide for said guide bar, a crossarm carried by said lever, pins projecting from each of said crossarm, a weight lever adapted to be elevated by said



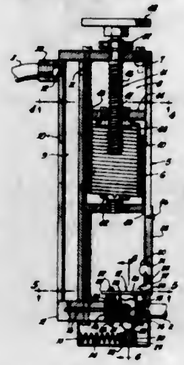
pins and having a counterweight mounted thereon, a hub on said weight lever, a four-way valve body including a core having an end engaged by said hub, conduits leading from said four-way valve to said cylinder and to said T, thermostatic control means coacting with said weight lever to operate said four-way valve core when freezing temperature exists, and manually operable means for actuating the four-way valve core independent of the thermostatic control means.

2,611,384
STEAM LOCOMOTIVE INJECTOR ATTACHMENT
William F. Smith, Sr., Minneapolis, Minn.
Application September 25, 1950, Serial No. 186,551
6 Claims. (Cl. 137—202)



1. In a water supply system for steam locomotives of the type in which an injector, having a water suction supply line connection with a tender tank, and a steam supply line and a water delivery line connected with the locomotive boiler, is provided with an overflow outlet through which steam and water escapes during priming of the injector; the improvement which comprises a receiving tank connected with the overflow outlet below the injector, a vent pipe connected to the receiving tank at the upper portion thereof, a float valve mechanism in the receiving tank for shutting off communication between the interior of the receiving tank and the vent pipe when the receiving tank is substantially filled with water, and a water return line operatively connected with the receiving tank and tender tank independent of said water suction supply line for return of water from the receiving tank to the tender tank.

2,611,385
AUTOMATIC CUTOFF AND RELIEF VALVE FOR TIRES
Julius A. Pinchev, Los Angeles, Calif.
Application March 5, 1946, Serial No. 652,072
7 Claims. (Cl. 137—224)



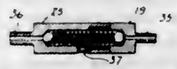
5. In an automatic fluid flow control device: means forming a passage adapted to be connected with a closed fluid pressure space; means, including a pressure responsive element, forming an expansible chamber freely communicating with said passage; means forming a fluid inlet port and a fluid outlet port; valve means including a valve member operable to connect said passage and either port, means biasing said valve member to a position closing said ports; and manual means for operating said valve member to a position connecting said passage and one of said ports; said valve member when in port closing position having a portion engageable by said element to operate said valve member to connect said passage with the other port in response to movement of said element.

2,611,386
TIRE DEFLATING VALVE WITH PRESSURE GAUGE
Thomas E. Parrott, Tulsa, Okla.
Application February 21, 1947, Serial No. 729,985
1 Claim. (Cl. 137—228)



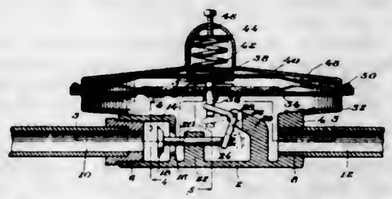
A valve structure for relieving pressure from a tire gauge comprising a casing having an open ended chamber, an inlet passage to said chamber and an outlet bore from said chamber, a cup-shaped valve housing mounted in the chamber end of said bore, a manually adjustable valve in said housing cooperating with a seat therein to control flow through said bore, a second valve housing in the opposite end of said bore having a seat thereon, a valve seal in said bore cooperating with said last mentioned seat for controlling flow through said bore, a spring interposed between said valve seal and said first housing urging said seal against its seat, a stem on said valve seal extending through and beyond said second housing, a button on the free end of said stem for manual opening of said valve seal.

2,611,387
VALVED TOOL FOR BLEEDING BRAKE CYLINDERS
Charles J. Legerski, Cleveland, Ohio, assignor of ten per cent to Lewis S. Ivanc, Cleveland, Ohio
Application May 27, 1946, Serial No. 672,407
3 Claims. (Cl. 137—270)



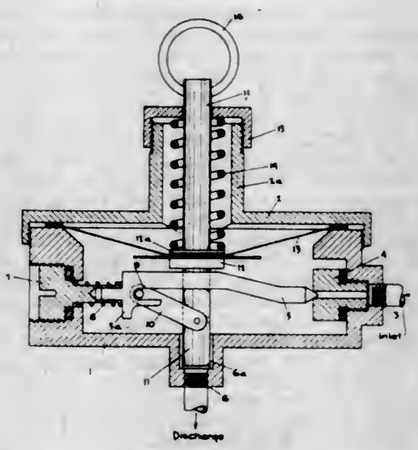
1. A small portable tool for use in servicing brakes, said tool being composed of first and second interfitting parts which may be removed from each other to enable the interior portion of the tool to be cleaned, each of said tool parts having a cylindrical bore and an outer cylindrical surface of the same size as the other tool part and the cylindrical surface of each of said parts being free from external projections so that the tool may be readily grasped by the fingers of an operator, the cylindrical bore in each of said tool parts being in alignment with each other to form a central cylindrical chamber when the tool parts are in interfitting engagement with each other, and each of said tool parts having a second bore communicating with the central chamber and extending from the central chamber to its free end, each of said second bores being of less diameter than the central chamber and each being of the same diameter at their entrance to the central chamber and each of said tool parts having a valve seat arranged between its second bore and the central chamber, a valve part of less diameter than the central chamber arranged to engage one of said seats and a second valve part of less diameter than the central chamber arranged to engage the other valve seat, a spring of less diameter than the central chamber arranged in the central chamber and having one end engaging one of said valve parts and its other end engaging the other valve part and normally maintaining both of said valve parts in engagement with its respective seat, each of said tool parts being provided with an integral threaded fitting through which the second bore of each tool part extends, one of said threaded fittings being of a size larger than the other fitting so that said tool may be fitted to couplings of two different sizes, and one of said tool parts being provided with an opening leading from the central chamber to the external surface of said tool which terminates flush therewith for permitting the liquid and entrained air entering the central chamber through one of said second bores to force one of the valve parts from its seat to enter the central chamber and to be drained from the central chamber of said tool.

2,611,388
VALVE
Chester B. Talley, Smackover, Ark.
Application March 11, 1947, Serial No. 733,860
1 Claim. (Cl. 137—463)



In a pressure control valve, a valve body including a base, said base including a wall provided with a fluid inlet and outlet opening, a wall member interposed between said pair of openings and defining a chamber, there being an opening in said wall member, a support formed integrally with said base, a stem slidably mounted in said support and extending through the opening in said wall member, a valve mounted on an end of said stem and positioned in said chamber and mounted for movement into and out of closing relation with respect to the opening in said wall member, the other end of said stem being provided with a slot, a crank having one end pivotally connected to the slotted end of said stem, an abutment formed integrally with said base, a pin pivotally connecting said crank to said abutment, a housing including a spider frame, a rod arranged centrally of said frame, the other end of said crank being connected to said rod, a collar mounted on said rod, a diaphragm arranged in engagement with said collar, a dome formed on said housing, a coil spring seated in said dome and engaging said diaphragm, set screw means for adjusting the position of said diaphragm, a cover having its periphery detachably connected to the periphery of said housing, a cylinder extending from one side of said base adjacent said chamber, and a needle valve extending through said cylinder and a port in said chamber wall, said port communicating with said chamber and the interior of said housing.

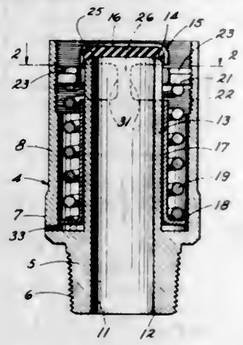
2,611,389
AUTOMATIC VALVE
Louis Calmels, Paris, France, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application December 29, 1947, Serial No. 794,409
In France January 6, 1947
1 Claim. (Cl. 137—463)



An automatic valve comprising a casing forming a pressure chamber, a movable pressure-responsive diaphragm forming one wall of the chamber, a back-pressure spring urging said diaphragm against the pressure of a fluid in said chamber, fluid inlet and outlet ports through said casing wall connecting with said chamber, a valve seat for said inlet port within said casing, a reciprocable valve stem having a longitudinal notched slide-way formed therein near one end and cooperating at the other end with said valve seat for closing said inlet port, said valve stem being mounted within said casing for movement substantially parallel to said diaphragm, a valve spring urging said valve stem to its seat, a con-

trol rod mounted within said chamber for reciprocating movement normal to the axis of motion of said valve, said control rod passing through said diaphragm to extend on either side thereof, said diaphragm being affixed in fluid-tight manner to said control rod and movable therewith, a link, a pivot pin affixed to one end of said link and slidably inserted within the slide-way for engagement with the notched end thereof, a connecting pin securing the other end of said link to the control rod within the chamber so as to cause an angular movement of the link and open the valve when the diaphragm and control rod are moved in opposition to the back-pressure spring.

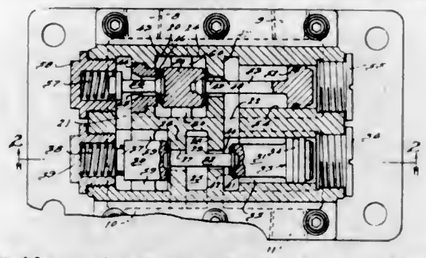
2,611,390
RELIEF VALVE
Andrew G. Johnson, Lakewood, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application November 14, 1947, Serial No. 785,939
3 Claims. (Cl. 137—494)



1. A relief valve comprising a tubular member adapted to communicate at its inner end with a fluid pressure system and having a valve seat at its outer end, a tubular shell surrounding said tubular member and fixed thereto at the inner end of said shell, said shell having an open outer end disposed axially outwardly of said valve seat, a valve member including an end wall carrying a valve closure member arranged to engage and seal against said valve seat and including guide means extending along said tubular member and having spring abutment means extending therefrom adjacent the inner end thereof, a spring retainer mounted in said shell and positioned axially inward from the outer end of said tubular member, a compression spring engaging said spring retainer and said spring abutment means and urging said valve closure member against said valve seat, said valve member having radial openings adjacent the valve closure member, said openings and the outer edge of said tubular member defining a fluid passageway having an area at least substantially equal to the cross-sectional area of the outlet passageway of said tubular member when said valve member is moved outwardly the maximum amount permitted by said spring.

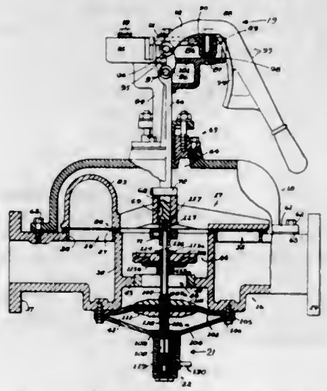
2,611,391
VALVE
John Sainsbury, Detroit, and William E. Hennells, Belleville, Mich., assignors to Ross Operating Valve Company, Detroit, Mich.
Application December 14, 1945, Serial No. 634,970
4 Claims. (Cl. 137—623)

1. A four-way pneumatic valve assembly comprising a base, said base having four passageways each of which extends through the base and is connected to one of a plurality of ports, all of which ports are located in one surface of the base, the opposite ends of said passageways terminating in openings located in substantially parallel side surfaces of said base, a substantially sealed valve housing having a ported surface secured in sealing relation to the said surface of the base and coacting with the aforementioned ports in the base, a pair of axially



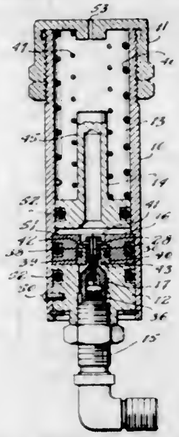
shiftable double poppet valves in said housing with their axes extending parallel to each other and in a common plane parallel to said surface of the base, means including a pilot valve within said housing for simultaneously shifting said valves in the same direction, means also within said housing for returning said valves, said housing having ports controlled by said valves and communicating with the passages through said base.

2,611,392
PILOT CONTROLLED MULTIPORT VALVE
Oscar W. Johnson, Rockford, Ill., assignor to Automatic Pump & Softener Corporation, Rockford, Ill., a corporation of Illinois
Application August 23, 1944, Serial No. 550,720
12 Claims. (Cl. 137—633)



12. In a multiport valve comprising a ported body, and a ported plate adapted to effect different communication between the ports in the body in different positions of the plate, a cover element for said body, a stem element for turning said ported plate projecting through said cover, an index member on one of the aforesaid elements having circumferentially spaced notches therein, operating means cooperable with said index member and carried on the other of said elements for turning the stem and ported stem plate, the operating means being separately lockable in each of said notches, an auxiliary control valve arranged to control the flow through a port of said valve, the control valve being reciprocable relative to the stem and operatively associated with said operating means and arranged to be moved thereby independently of any rotation of the ported plate, and means associated with said operating means and control valve for normally holding the operating means in a notch and holding the control valve normally in a predetermined position.

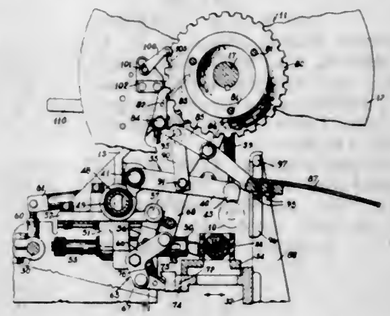
2,611,393
THERMAL PRESSURE EQUALIZER
Everett G. Gravenhorst, Hasbrouck Heights, N. J., assignor to Air Associates, Incorporated, Teterboro, N. J., a corporation of New Jersey
Application March 15, 1950, Serial No. 149,809
1 Claim. (Cl. 138—31)



In a thermal pressure equalizer, a casing providing a fluid chamber, means defining a fluid passageway at one end of said casing and providing an annular seat forming a port, a poppet arranged in said fluid passageway for reciprocatory movement, said poppet having a frusto-conical shaped portion adapted to engage said annular seat for closing said port, said poppet having a bore opening through the opposite ends thereof and an aperture in the side wall thereof communicating with the bore and with said passageway inwardly of said seat when the poppet is seated thereon, a restricted tube secured in said bore in open relation at its inner end with said chamber and said tube being spaced from the wall of the bore at its inner end to provide a passageway surrounding said tube and extending from said aperture through the inner end of said poppet and in communication with the chamber to permit of the rapid discharge of fluid from the chamber when the poppet is in open relation, and said restricted tube having an outlet at its outer end in communication with the outer end of said bore to thereby permit of the flow of fluid from the outer end of said passageway into said chamber through said restricted tube upon a sustained increase of pressure, and an elongated stiff member loosely arranged in said restricted tube for preventing clogging thereof.

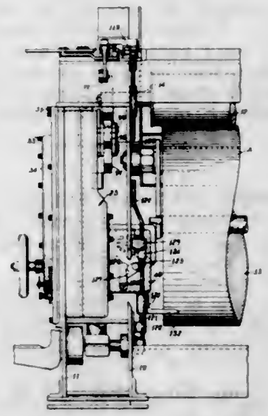
2,611,394
BOBBIN BATTERY INDEXING MECHANISM
Karol Kulczycki, Brooklyn, N. Y., assignor, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey
Application March 3, 1950, Serial No. 147,482
14 Claims. (Cl. 139—250)

1. In a loom, a lay for a shuttle, a rotary hopper, a mechanism for transferring fresh bobbins successively from said hopper into the shuttle and comprising a transfer arm adapted to engage a bobbin on said hopper and movable to eject it therefrom towards the shuttle, and means for rotating said hopper step by step to bring the bobbins thereon successively into transfer position with respect to said transferring mechanism at the end of each bobbin transfer operation and comprising a ratchet gear connected for rotation with said hopper, a lever arm mounted for angular movement about a pivot axis, a feed pawl for said ratchet gear supported on said lever arm



and adapted to be moved from one interdental space of said gear to another as said lever arm moves angularly in one direction about its pivot axis, a link connection between said arms for moving said lever arm in said direction about its pivot axis as said transfer arm enters into the late phases of its transfer operation, and a transmission between said lay and said lever arm for turning said lever arm about its pivot axis and in the opposite direction to rotate said ratchet gear one step at the end of each bobbin transfer operation.

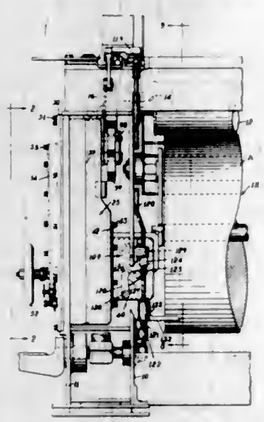
2,611,395
TAKE-UP MECHANISM
John Rinne, Brooklyn, N. Y., Everett H. Ashton, Belmar, N. J., and Robert G. Mallard, Staten Island, and Francis Gerard Lake, New York, N. Y., assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey
Original application April 2, 1947, Serial No. 739,004, now Patent No. 2,518,185, dated August 8, 1950. Divided and this application September 2, 1949, Serial No. 113,876
1 Claim. (Cl. 139—312)



In a loom, a frame web extending along one side of said loom and having an opening, a take-

up roll gear, a take-up main drive shaft, a gear transmission between said shaft and said gear, a casing for said transmission passing through said web opening from the outer side thereof, and having an outer side wall mounted on said frame web, said outer side wall having an opening affording access to said transmission in the interior of said casing, and said casing comprising a removable cover plate for said last-mentioned opening on the outer side of said frame web.

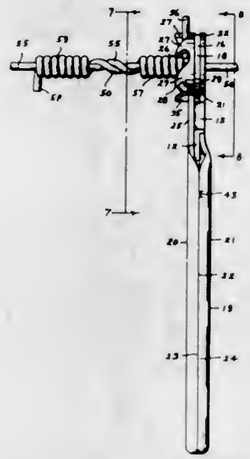
2,611,396
LET BACK CONTROL
John Rinne, Staten Island, N. Y., Everett H. Ashton, Allston, and Robert G. Mallard, Hopedale, Mass., and Francis Gerard Lake, New York, N. Y., assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey
Original application April 2, 1947, Serial No. 739,004, now Patent No. 2,518,185, dated August 8, 1950. Divided and this application February 3, 1950, Serial No. 142,203
3 Claims. (Cl. 139—313)



1. In a take-up mechanism for a loom, a take-up gear transmission including a take-up main drive shaft, and a drive to said shaft including a clutch disengageable to permit let-back operations under the tension action of the cloth, a casing for said transmission on one side of the loom, said take-up main drive shaft extending in said casing and projecting outwardly through the outer side wall of said casing, and a let-back control device on the outer side of said outer casing wall adjustable to control the extent of cloth let-back and comprising a ratchet wheel on the outward projecting section of said take-up main drive shaft.

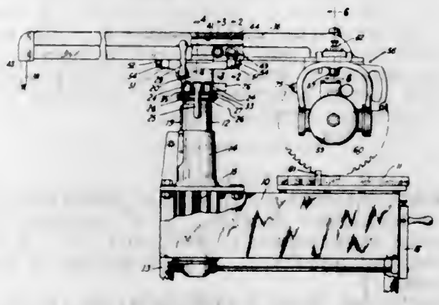
2,611,397
WIRE SPLICING PLIERS
Isaac O. Limpus, Shelbyville, Ind.
Application May 29, 1950, Serial No. 164,965
1 Claim. (Cl. 140—117)

A tool for splicing together overlapping end portions of a pair of wires, comprising a pair of handles; a pair of flat plates carried by one of said handles spaced apart in parallel opposing face relation; each of said plates having a slot entering from an edge to open by an inner end centrally of the plate into a circular hole through the plate, the slot width being less than the diameter of said hole, and one side of the slot being tangential to a side of the hole; a shoulder at the juncture of the other side of said slot with the margin of said hole; said slots and holes being in transverse alignment one with the other; a third plate carried by the other of said handles of a width to be substantially slidably passed between said first plates; a pivot member rockably interconnecting said handles to swing said third plate between said first plates about said member; said third member having an edge portion which will travel between said two plates to cover and uncover said slots; said edge portion having a con-



cave, arcuate portion of substantially the same radius of curvature as that of said holes and having its center of curvature on a circumferential travel line through the axis of the centers of said holes, the concave side of said arcuate portion being directed toward said axis upon travel of the third plate into said slot covering position to reduce the effective opening through said holes; and a plurality of jaws extending laterally from an outer face of one of said first plates in spaced apart relation spaced around a circumferential line centered upon said hole axis; one of said jaws being carried by said pivot member.

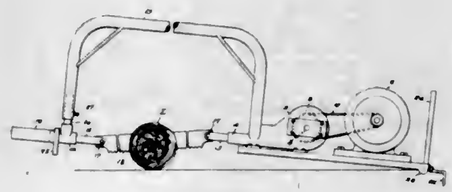
2,611,398
WOOD SAWING AND CUTTING MACHINE
Ewald Schutz, Lancaster, Pa., assignor, by meane assignments, to De Walt Inc., Lancaster, Pa., a corporation of Pennsylvania
Application December 14, 1948, Serial No. 65,207
4 Claims. (Cl. 143—6)



2. In a woodworking machine having a work-supporting table, a vertical supporting column, a bearing head mounted on the top of the column,

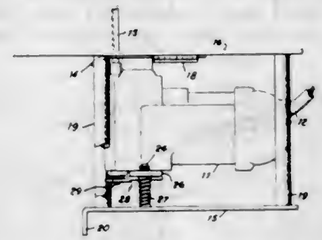
a horizontal arm riding over the bearing head and projecting forwardly above the table, and a saw assembly mounted on the forward end of the arm, the improvement which comprises: the arm being formed of an inverted channel section having inturned lateral edges provided on their inner surfaces with upwardly-diverging planar bearing tracks and having a pair of spaced coplanar bearing tracks extending along the inner surface of the top thereof and generally opposite the upwardly-diverging tracks; and the bearing head comprising a body supporting two pairs of rollers mounted on horizontal axes for engaging the coplanar tracks and carrying downwardly-directed load, supporting two pairs of rollers mounted on upwardly-diverging axes for engaging the upwardly-diverging tracks and carrying upward and lateral loads, and a pivoted clamp loosely mounted on the bearing head for locking the arm for ripping, the clamp having at one end a U-shaped portion adapted to engage the bottom edge of the channel section and one of the upwardly-diverging bearing tracks and at its other end a thumb screw for engaging the side of the channel section, said loosely engaged pivot located substantially intermediate said end portions so that upon tightening said thumb screw said U-shaped portion will tightly engage said upwardly diverging bearing track.

2,611,399
DRAG SAW HAVING ANGULARLY ADJUSTABLE BLADE
William Jacobson, Ashford, Wash.
Application September 23, 1949, Serial No. 117,286
1 Claim. (Cl. 143—63)



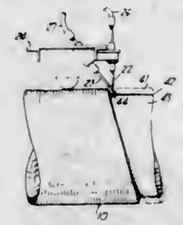
In a power driven saw of the type comprising a U-shaped yoke having elongated spaced parallel legs and a bight portion carried by and extending between the legs, a bearing carried by one of the legs remote from the bight portion, a shank mounted in the bearing for reciprocation in a rectilinear path which lies parallel with the bight portion, a prime mover mounted adjacent the yoke, means connected to the prime mover and to the shank for reciprocating the shank in the rectilinear path, a second bearing member, a shank mounted in the second bearing member for reciprocation in a rectilinear path which lies in spaced parallel relation to the bight portion, and a saw blade connected to the shanks and extending between the legs remote from the bight portion, the other of said legs being provided with a socket which opens through the end thereof, a stud carried by the second mentioned bearing member and telescopically entering the socket, and means carried by said other leg and releasably engaging the stud for holding the second mentioned bearing member in a selected position relative to said leg, whereby the angular position of the saw blade relative to the axis of reciprocation may be adjusted.

2,611,400
SAW TABLE FOR PORTABLE POWER DRIVEN RECIPROCATING HANDSAWS
William E. Shore, West New Brighton, N. Y., assignor to Harold S. Forsberg, Shelton, Conn.
Application June 25, 1949, Serial No. 101,359
12 Claims. (Cl. 143—132)



2. A table for holding a portable electric saw which has a housing, reciprocating sabre type saw blade and a saw plate shoe which normally presses against and moves over the surface of the material being sawed when the saw is in operation, comprising, in combination, a saw table plate having a saw slot therethrough, a clip secured to the under side of the saw table plate adjacent one end of the saw slot to receive and hold the saw plate shoe against the under side of the saw table plate with the saw housing suspended below the saw table plate and with the saw blade extending upwardly through the saw slot in sawing position, a bar spaced below the saw table plate and having a limited range of movement toward and away from the saw table plate, and means pressing said bar upwardly toward the saw table plate.

2,611,401
HYDRAULIC LOG-BARKER HAVING KERF-CUTTING AND BARK-REMOVING JETS
Robert Edward Burton, Willits, Calif.
Application October 17, 1950, Serial No. 190,549
2 Claims. (Cl. 144—208)

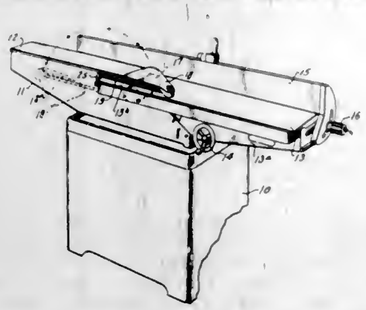


1. Apparatus for debarking logs comprising means for rotating the log about its longitudinal axis, means for producing and directing a hydraulic cutting jet in a direction substantially radially of the log, said cutting jet serving to cut a kerf through the bark to the wood portion of the log, and means for producing and directing a peeling jet into said kerf to remove the bark from the log.

2,611,402
GUARD MOUNTING FOR JOINTER CUTTERS
William B. Boice, Toledo, Ohio, assignor to Boice-Crane Company, Toledo, Ohio, a corporation of Ohio
Application December 30, 1950, Serial No. 203,596
2 Claims. (Cl. 144—251)

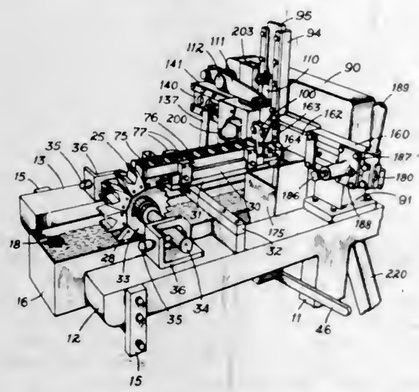
1. In a jointer, an elongate table having contiguous relatively wide and narrow longitudinal

portions, the relatively wide portion extending laterally from the narrow portion and having an inwardly extending shoulder at the end thereof adjacent the narrow portion, whereby said shoulder and the adjacent edge of the narrow portion define two sides of a pocket along one side of the table for part of the length thereof; a knife mechanism mounted in the wide portion of the table; a knife guard; and a support for said knife guard mounted on said table, said support comprising



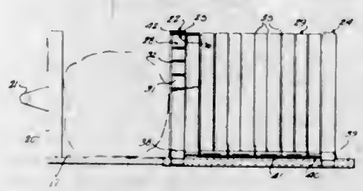
a horizontal pivot affixed to said shoulder and extending transverse of the length of the table; an extension arm having one end swingably supported by said pivot; and a rotatable connection between the other end of said arm and said guard, the guard and support therefor being shorter in their maximum total dimensions, than said pocket whereby said guard and arm may be swung about said pivot between a working position adjacent said knife to a retracted position in which said guard rests entirely with said pocket.

2,611,403
MACHINE FOR PITTING FRUITS SUCH AS DATES
Arnold W. Schafer, Urbana, Ohio, assignor to The W. H. Marvin Company, Urbana, Ohio, a corporation of Ohio
Application September 24, 1949, Serial No. 117,592
3 Claims. (Cl. 146—17)



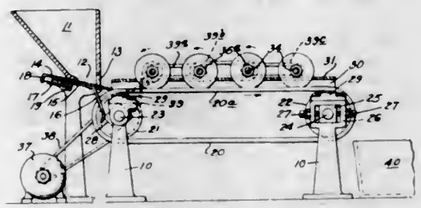
1. A machine adapted for the pitting of fruit such as dates and the like which comprises a series of buckets each adapted to receive a fruit longitudinally therein, means for advancing said buckets in step by step movements to bring each of them successively into a stripping position, a stripper plate at said stripping position, means for yieldably mounting said stripper plate providing for the yielding movement thereof away from said bucket in response to failure of the pit to be stripped therethrough, a plunger for stripping the pits from said fruit in said stripping position, means for reciprocating said plunger to strip each fruit in said stripping position, and means responsive to said yielding movement of said stripper plate for stopping the step by step travel of said buckets.

2,611,404
FOOD DICER
Willie G. Weeks, Port Tampa City, Fla.
Application February 23, 1949, Serial No. 77,907
1 Claim. (Cl. 146—78)



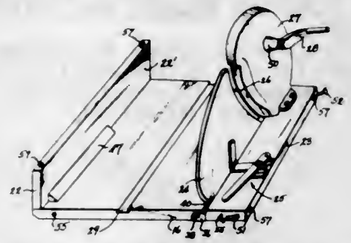
In a food dicer, a base plate, guide channels formed on the opposite longitudinal side edges of said plate and positioned at the lower side of said base plate, a food carrier plate having longitudinal side edges slidably engaged in said guide channels for longitudinal movement of said carrier plate relative to said base plate, a vertical reticulated cutter fixed on and rising from one end of said base plate, a vertical pusher plate fixed on and rising from said carrier plate for pushing food on said carrier plate through said reticulated cutter as said carrier plate is moved longitudinally relative to said base plate in one direction, cut food supporting means on said base plate at the side of said reticulated cutter remote from said pusher plate, said means including sidewalls formed with longitudinally spaced vertical slots, and a bladed cutter hinged on a longitudinal edge of said base plate and comprising blades extending crosswise of said base plate and arranged to pass through the slots in the sidewalls and cut food present in said food supporting means as said bladed cutter is swung downwardly toward said base plate from an elevated position.

2,611,405
APPARATUS FOR CUTTING ALMONDS TO PIECES OF MISCELLANEOUS SIZES
David R. Bailey, Sacramento, Calif., assignor to California Almond Growers Exchange, Sacramento, Calif., a corporation of California
Application June 14, 1948, Serial No. 32,914
1 Claim. (Cl. 146—98)



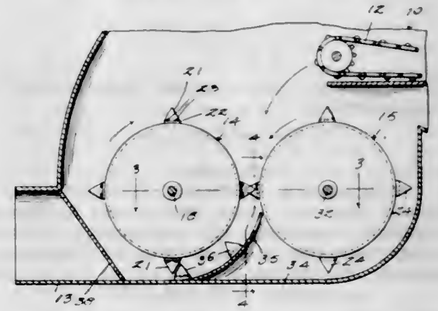
An apparatus for cutting almonds or the like into granules of miscellaneous sizes comprising; a pair of relatively horizontally spaced rotatable end rollers, a movable conveyor belt mounted around said rollers for conveying nutmeats to be cut, the belt having a smooth conveying surface of resilient material, a feed means adapted to feed the meats to the belt in haphazard random arrangement, a cover plate overlying and spaced above the flight of the belt which conveys the meats, said plate having intermediate the end rollers a series of longitudinally spaced rows of transversely relatively spaced slots therein, a series of longitudinally spaced rows of rotatable knives, said rows of knives being relatively spaced between the end rollers of the belt, the knives in the rows being relatively spaced transversely of the belt, the space between adjacent knives being less than the smaller dimension of the almonds, means for rotating the knives toward the belt at the cutting edge to which the meats are initially fed by the belt, the cutting edges of the knives extending through the slots of said slotted plate and superficially penetrating into the adjacent face of the belt, and longitudinal strips overlying the opposite longitudinal edges of the belt throughout the length of the conveyor face of the belt.

2,611,406
SLICING MACHINE IN COMBINATION WITH A CABINET THEREFOR
Harry Preble, Jr., Westport, Conn., assignor to General Slicing Machine Company, Inc., Walden, N. Y., a corporation of New York
Application February 23, 1950, Serial No. 145,789
6 Claims. (Cl. 146—102)



1. In an article of the character described, a cabinet having horizontal top and bottom walls and side and end walls; the side walls being carried by one of the horizontal walls and forming a separate first unit therewith; at least one of the side walls being hinged to its associated horizontal wall for swinging movement to coplanar relationship therewith; one of the end walls and the other horizontal wall being secured to each other to form a separate second unit, a panel secured to the other end wall to form a separate third unit therewith; said panel being positioned within the cabinet adjacent the inside surface of the horizontal wall which carries the side walls; the last mentioned horizontal wall being provided with a single track means extending from front to rear of the cabinet, a track-engagement means carried on the second unit over the horizontal wall member included in the second unit, another track-engagement means carried on the third unit; both said track-engagement means being in sliding engagement respectively with the track means and detachable therefrom; the track-engagement means carried on the second unit, being in engagement with said track means; the third unit serving as the food carriage of a slicing machine; the inside surface of the hinged side wall having mounted thereon, substantially the remainder of a food slicing machine to be housed within the cabinet, whereupon opening the cabinet by removing the second unit from the cabinet structure, setting the horizontal wall having the food carriage thereon onto a flat surface and swinging the hinged side wall to lie coplanar with its associated horizontal wall, all the slicing machine components will be in proper operative relation and workable when the third unit is positioned to slide along the track means whereby the panel and then its associated end wall pass the cutting edge of the knife of the slicing machine, upon movement of the third unit on the first unit.

2,611,407
STRAW CUTTER
Vivian P. Alloway, Craigmont, Idaho
Application July 5, 1949, Serial No. 102,987
1 Claim. (Cl. 146—119)

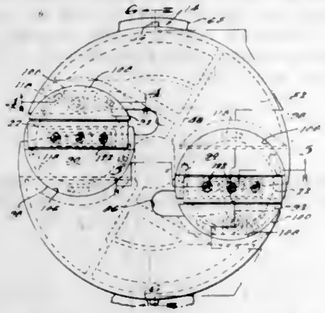


In a straw handling machine, a housing adapted to receive straw from the rear end of a combine, a first and second rotary cutter supported in said housing, each of said cutters including a cylindrical body having heads, a shaft extending through said heads and extending into said housing, a plurality of spaced blade members secured to each of said bodies, and each including a base flange and a sharpened triangular cutting blade at right angles to said base flange, a first pulley mounted on the shaft extending through said first cutter, a driving pulley mounted forwardly of said cutters, a belt connecting said first pulley to said driving pulley, a belt tensioning idler pulley arranged in engagement with said belt, a bracket adjustably supporting said idler pulley, a second pulley of larger diameter than said first pulley mounted on the shaft extending through said second cutter and engaging said belt whereby said second cutter will rotate slower and in an opposite direction from said first cutter, said housing including a bottom wall provided with an upwardly curved portion spaced about the first cutter, said curved portion being provided with a plurality of cutting blades, there being slots in said curved portion for the passage therethrough of the blades from said second cutter, the blades of said first and second cutters and the blades of said first cutter, and said curved portion being so spaced as to pass each other in sliding, shearing engagement, and a mouth extending from said housing on the discharge side of said first cutter for the passage therethrough of comminuted straw, said straw from said combine being received at a point between said first and second cutters.

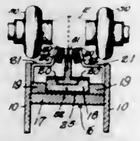
2,611,408
SLICING MACHINE
Horace E. Farmer, Grosse Pointe, Mich., assignor to Famous Foods, Inc., Detroit, Mich., a corporation of Michigan
Application April 16, 1948, Serial No. 21,477
12 Claims. (Cl. 146—124)

1. In a slicing machine, a table mounted for rotation about a central axis, said table having

a circular recess at one side of said axis, plate means mounted in said recess for angular adjustment therein, and a slicing knife carried by said plate means.

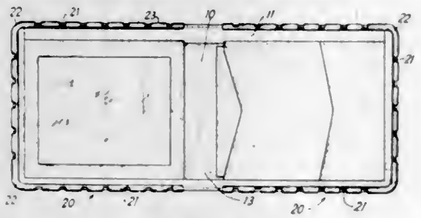


2,611,409
EGGSHELL SCORING DEVICE
George F. Hodson, Altus, Okla., and Lyman L. Campbell, Riverdale, Ill., assignors to Wilson & Company, Inc., a corporation of Delaware
Application September 4, 1945, Serial No. 614,303
10 Claims. (Cl. 146—221)



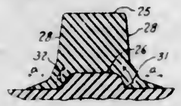
9. The method for scoring an egg to cut through the shell without rupturing the membrane which comprises rotating the egg while in contact with a scoring device positioned at substantially the equator of the egg while reciprocating the device at a high rate of speed and with a length of stroke shorter than the elastic limit of the membrane to be exposed by such scoring.

2,611,410
BILLFOLD WITH INTERMITTENTLY REINFORCED EDGE
Samuel J. Smallman, Passaic, N. J., assignor to I. Smallman and Sons Company, New York, N. Y., a corporation of New Jersey
Application December 13, 1949, Serial No. 132,646
1 Claim. (Cl. 150—38)



In a billfold of flexible material a U-shaped edge reinforcement overlying an end and two side edges of the billfold and comprising a plurality of U-shape metal clips arranged in longitudinally spaced relation along such edges, each clip having one leg overlying an inner billfold surface and the other overlying an outer billfold surface, and a narrow metal strip integral with such one leg of each clip and extending along such inner wall surface in inwardly spaced relation to such edges whereby, when the wallet is folded, the edges appear to be reinforced by individual spaced clips.

2,611,411
TIRE LUG FOR RELUGGING TIRES
Vaughn Rawls, Lima, Ohio
Application March 23, 1950, Serial No. 151,369
In Great Britain March 11, 1950
6 Claims. (Cl. 152—209)

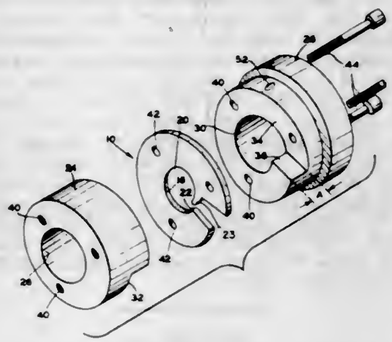


1. Lug stock for individually relugging heavy duty tires, said stock having a generally rectangular, upstanding body, and wing-like flanges of relatively thin cross section integral with said body and joined thereto adjacent the base thereof, said flanges having a length extending away from said body substantially greater than the thickness thereof where joined to said body.

2,611,412
DEVICE FOR ROLLING-OVER THE EDGES OF FLAT-FLANGED DISHED CAN BOTTOMS OR LIDS
Werner Moser, Lenzburg, Switzerland
Application February 28, 1950, Serial No. 146,906
In Switzerland December 29, 1949
4 Claims. (Cl. 153—59)

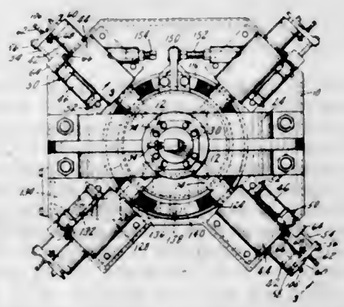
1. A device for rolling-over the edges of flat-flanged dished can bottoms or lids comprising an inclined support plate, three identical rollers journalled relatively to and projecting from the said support plate parallel to one another in a triangular disposition, driving means arranged for rotating the said rollers in the same sense of rotation and at the same constant speed, each of the said rollers comprising a smooth cylindrical bottom portion, a helically grooved main portion of an outer radius larger than the radius of said cylindrical bottom portion and a wedge shaped catcher having its bottom face flush with the bottom face of the said roller and its upper face leading up to the lower flank of a helical rolling-over groove in the said main portion of the roller the said helical groove starting with a part extending over a fraction of a turn having a root radius equal to the radius of the said bottom portion of the roller, and leading through a transition zone of steeply increasing root radius to the main part of said helical groove which gradually increases in root radius up to the last turns of said helical groove which are of constant root radius, and a chute for feeding flat-flanged dished can bottoms or lids one after the other to the bottom portions of the said rollers the said rollers being angularly so disposed about their respective axes of rotation that their catchers simultaneously engage the flange of a can bottom or lid.

2,611,413
TOOL FOR MANUFACTURING SPIRAL GROOVE TUBING
Nicholas Molinare, Nutley, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application July 25, 1949, Serial No. 106,672
2 Claims. (Cl. 153—71)



1. A tool for forming a flexible corrugated metal tube, comprising a single blade, said blade being of helical convolute form and having a leading edge and a trailing edge, an appendage portion of said blade for supporting the metal of the tubing between the leading and trailing edges so as to effect uniform corrugations in the tubing, a pair of mounting jaws for said blade, the mating surfaces of said jaws matching the helical contour of said blade, a plurality of registered clamping holes through said blade and said jaws, and fastening means passing through said registered openings for securing said blade in working position between the mating surfaces of said jaws.

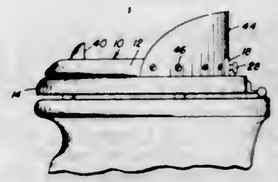
2,611,414
MACHINE FOR TWISTING FAN SPIDERS
Peter M. Sampatacos, Torrington, Conn., assignor to The Torrington Manufacturing Company, Torrington, Conn., a corporation of Connecticut
Application February 3, 1950, Serial No. 142,328
40 Claims. (Cl. 153—78)



1. In a machine for twisting fan spiders each having a central portion and a plurality of angularly spaced arms extending outward therefrom, the combination of means for clamping the central portion of a spider to hold it in a fixed horizontal position, a plurality of carriers movable horizontally inward and outward and corresponding in number and in angular spacing to the spider arms, a pair of gripping jaws individual to and mounted on the inner end portion of each carrier, mechanism for moving the several carriers inward to bring the jaws of the corresponding pairs into opposed gripping relationship with the respective spider arms, mechanism for relatively moving the jaws of the said pairs when in their said gripping relationship to cause them to grip the respective spider arms, and mechanism operable with the jaws in gripping engagement for turning the said carriers and jaws in gripping engagement for turning the said carriers and jaws about horizontal axes to twist the arms of the spider relatively to the central portion thereof.

36. In a machine for twisting fan spiders each having a central portion and a plurality of angularly spaced arms extending outward therefrom, the combination of means for clamping the central portion of a spider to hold it in a fixed horizontal position, a plurality of carriers movable horizontally inward and outward and corresponding in number and in angular spacing to the spider arms, a pair of gripping jaws individual to and mounted on the inner end portion of each carrier, mechanism for moving the several carriers inward to bring the jaws of the corresponding pairs into opposed gripping relationship with the respective spider arms, mechanism for relatively moving the jaws of the said pairs when in their said gripping relationship to cause them to grip the respective spider arms, an annular member movable about a central vertical axis, connections between the annular member and the respective carriers for turning the said carriers and jaws about horizontal axes, and mechanism for moving the annular member about its said axis when the jaws are in gripping engagement with the spider arms so as to turn the carriers and jaws and thereby twist the arms of the spider relatively to the central portion thereof.

2,611,415
HEATED TOILET SEAT
Junior S. Ryland, Santa Barbara, Calif.
Application June 6, 1949, Serial No. 97,455
2 Claims. (Cl. 155—1)

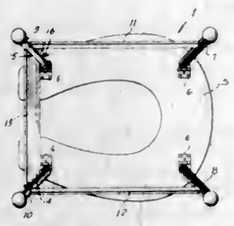


1. As an article of manufacture, a hollow toilet seat providing a chamber for the reception of a liquid heating agent whereby the body of the seat may be heated, said seat having a filled port and a vent port communicating with said chamber, a filler plug and a vent plug provided in the respective ports, and a hollow back rest provided on said seat in communication with said chamber.

2,611,416
TOILET CHAIR
John C. Moore, II, Oceanside, Calif.
Application June 21, 1946, Serial No. 678,330
1 Claim. (Cl. 155—31)

In a toilet chair, a seat, a pair of upstanding front legs arranged in convergent spaced relation with respect to each other adjacent one end of said seat, hinged means carried on the under surface of said seat and operatively connected to the upper end of each of said front legs, a pair of upstanding rear legs arranged in

convergent spaced relation with respect to each other adjacent to the other end of said seat. means carried by one of said front legs and hinge means carried on the under surface of said seat and operatively connected to the upper end of each of said rear legs, said pairs of front and rear legs being arranged in divergent relation with respect to each other, a brace bar extending between each of the front and the complemental rear legs and secured thereto, and



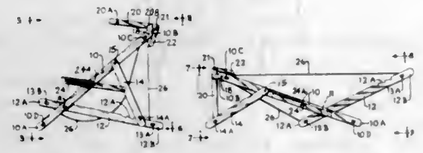
means carried by one of said front legs and engageable with the other of said front legs for maintaining the respective pairs of complementary legs in their extended position, said last named means comprising a panel extending between said front legs and having one end hingedly connected to one of said front legs, and a clamp on the other end of said panel for releasably securing the latter to the other of said front legs.

2,611,417
MECHANIC'S CREEPER
Arthur L. Henry and Albert E. Killingsworth, Fort Worth, Tex.; said Killingsworth assignor to said Henry
Application December 21, 1946, Serial No. 717,708
4 Claims. (Cl. 155—41)



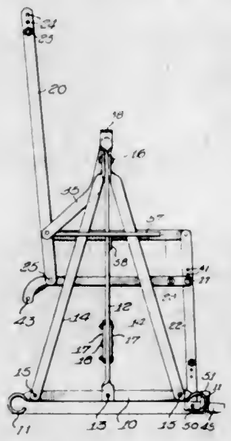
4. A mechanic's creeper comprising a flat bed, pairs of legs hinged on the bottom thereof and spaced from the ends of said bed, pairs of braces hingedly mounted on the bottom of said bed near the transverse center thereof, sleeves pivotally secured to said legs and adapted to slidably receive said braces, cross-members secured to pairs of said sleeves near the pivoted ends thereof, wheels mounted on said cross-members and positioned to extend downwardly therefrom, and means latching said sleeves with said braces at different locations along the length of the latter.

2,611,418
CONVERTIBLE RECLINING CHAIR AND COT
Leon Antelman, Philadelphia, Pa.
Application February 13, 1948, Serial No. 8,208
1 Claim. (Cl. 155—45)



A combined collapsible chair and cot, comprising a frame in crossed relation to and pivoted to a second frame said frames each extending at an inclination to the ground, braces having ends pivotally connected to the first named frame, and having other ends adjustably supported upon the second frame, a strip of fabric connected at one end to the top of one frame extending over the top of said first frame and secured to the bottom of said second named frame, said frames being adapted to be rotated about the points of engagement of the first frame upon the ground and spread apart to extend at reverse inclinations and the braces detached and swung down to engage the ground to form a cot frame, including a combined awning and head rest pivotally connected to the upper end of said first frame, said awning being substantially perpendicular to said head rest, and the free end of said awning being adapted to swing about its pivotal connection to engage said braces to form a head end support when the device is extended to form a cot, the headrest overlying one end of the cot, and the awning alone forming a canopy when the device is converted to a chair.

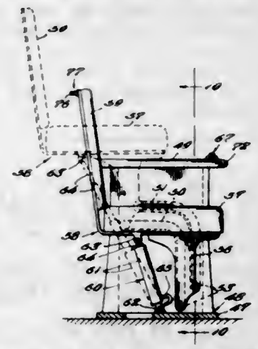
2,611,419
RECLINING SELF-ADJUSTING CHAIR
Leon L. McKinney and Lucius H. McKinney, Hartford, Conn.
Application December 26, 1945, Serial No. 637,218
1 Claim. (Cl. 155—67)



In a reclining, self-adjusting chair of the character described, a ground supported stand comprising vertical side frame members and cross struts connecting the same, a self-adjusting reclining chair pivotally suspended between the frame members at the upper ends thereof, said chair having pivotally connected back, seat and front leg frame bars and arm rests for the chair comprising bars pivotally connected to the back bars above their lower ends and to the upper ends of the front leg bars in parallel with the seat bars, said seat frame bars having extensions projecting outwardly and downwardly from the point of pivotal connection of said back and seat frame bars, the upper ends of said back frame bars having a plurality of spaced apertures therein and a cross rod therebetween movably secured in said apertures, the lower ends of said leg frame bars having a plurality of spaced apertures therein and a cross rod therebetween movably secured in said apertures, a cross rod fixedly secured to the free ends of the extensions of said seat frame bars, a cross rod fixedly secured to the seat frame bars adjacent the forward ends there-

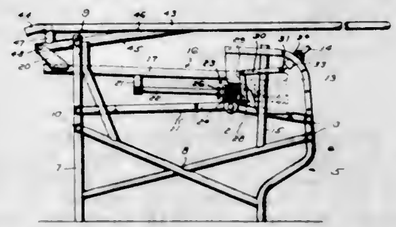
of, a fabric strip having one end looped over said upper back frame cross rod, its opposite end looped over said lower leg frame cross rod, and a loop intermediate said ends encompassing said seat frame extension cross rod, said adjustable upper and lower cross rods in conjunction with said intermediate loop permitting the seat portion of said fabric strip to be moved forwardly or backwardly relative to said frame bars and thus vary the center of gravity of said chair when occupied and provide adjustment in balance to fit variations in individual users.

2,611,420
RECEDING CHAIR FOR THEATERS AND THE LIKE
Elias S. Diehl, Bedford, Pa.
Application July 1, 1946, Serial No. 680,630
5 Claims. (Cl. 155—115)



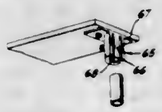
1. A theatre chair of the class described comprising a stationary base having uprights provided with vertically disposed L-shaped tracks, a liftable and lowerable chair situated between said uprights and including a seat and relatively fixed back rest, said seat being provided with depending leg members parallel to said uprights, shafts mounted for rotation in the lower portions of said leg members and provided on their outer ends with fixed cogs operable in said tracks, said tracks having rack teeth ranging from end to end, said cogs being geared by said teeth for positively feeding said shafts upwardly and rearwardly, and forwardly and downwardly in said tracks, and means for rotating and driving at least one of said shafts.

2,611,421
ADJUSTABLE SEAT AND BACK REST CHAIR CONSTRUCTION
Orla N. Hathaway, Coral Gables, Fla., assignor to American Airmotive Corporation, Miami, Fla., a corporation of Florida
Application December 13, 1950, Serial No. 200,667
3 Claims. (Cl. 155—116)



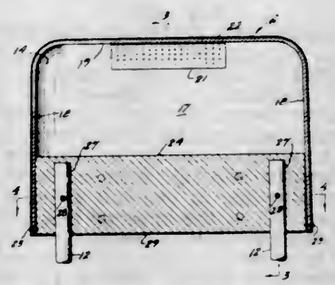
1. A shiftable seat device having a reclining back support connected therewith, a rigid tubular base frame provided with an arm rest, a guide device pivotally supported on the base frame at opposite sides, spring actuated locking devices carried by each guide device, a shaft extending across the base frame and journaled in the guide devices, means carried by the shaft for releasing the locking devices simultaneously, a button supported on the arm rest, connecting means between the button and the shaft for controlling the rotation of the shaft in one direction, a seat frame of rectangular shape having rear terminal ends, guide rods carried by the seat frame adapted to traverse the guide devices and controllable by the locking devices, a back supporting frame of rectangular shape having lower terminal ends adapted to abut the terminal ends of the seat frame, the back frame hingedly connected to the seat frame and adapted to be shifted to varying degrees of angularity under the influence of the shifting movement of the seat frame, the back supporting frame pivotally connected to the base frame, the pivotal and hinge connection of the back supporting frame permitting the back supporting frame to be folded forwardly and downwardly to overlie the seat frame.

2,611,422
DEMOUNTABLE GRANDSTAND SEAT PLANKS
John F. Roney, Los Angeles, Calif., assignor to Safway Steel Products, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application July 28, 1947, Serial No. 764,235
2 Claims. (Cl. 155—130)



1. The combination with a tubular post included in a grandstand riser, of a pair of similar planks having abutting ends, a fitting mounted on the underside of each plank at its abutting end, said fittings each providing a semi-circular plug and a semi-circular socket concentric therewith and spaced therefrom to provide a semi-annular groove, said tubular post being snugly received in the grooves between co-acting plugs and socket members.

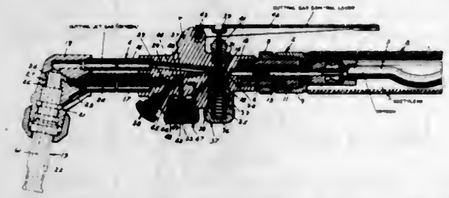
2,611,423
CHAIR BACK
Jay H. Blum, Olean, N. Y., assignor to The Fibre Forming Corporation, Olean, N. Y., a corporation of New York
Application November 8, 1950, Serial No. 194,651
12 Claims. (Cl. 155—178)



12. In a chair back adapted to be mounted upon an upright support of a chair, a hollow upholstery foundation formed of a fibrous-plastic

composition, a filler block disposed within the lower end of said foundation and secured to the latter for engagement with an upright support of a chair, said foundation comprising a front wall, back wall, side walls, and a top wall, a bag-type slip cover positioned over said foundation and having its lower marginal edge engaged between said filler block and the inner surface of the foundation, and means to secure said filler block to an upright support of a chair.

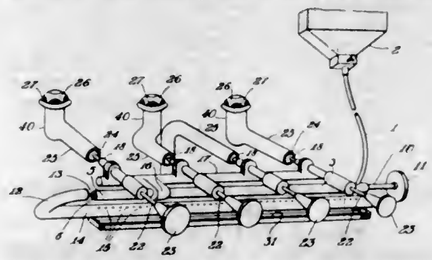
2,611,424
PRESSURE-OPERATED ANTIBACKFLOW DEVICE FOR CUTTING TORCHES
Elmer H. Smith, Minneapolis, Minn., assignor to Smith Welding Equipment Corporation, Minneapolis, Minn., a corporation of Minnesota
Application July 17, 1948, Serial No. 39,305
8 Claims. (Cl. 158—27.4)



2. A cutting torch comprising a tip having a plurality of preheating fuel gas ducts therein, a butt member having oxygen and acetylene passages therein, means connecting said passages to the preheating fuel gas ducts in said tip for delivering controlled quantities of low pressure acetylene and oxygen thereto to provide a combustible fuel mixture for a preheating flame, said oxygen passage being connected to an enlarged chamber in said butt member for delivering low pressure oxygen thereto, said chamber having a small outlet opening and which is so arranged that the low pressure oxygen flowing through said passage to the preheating fuel gas ducts in the torch tip must pass through said chamber when the torch is in operation, an enlarged pressure sensitive element in said chamber biased to normally close said outlet when the torch is inoperative, the effective area of said element exposed to the pressure of the low pressure oxygen delivered into said enlarged chamber being relatively greater than the effective area of said outlet, whereby should the pressure of the flow of low pressure oxygen through said chamber suddenly diminish, said diaphragm will automatically close said outlet and prevent a backflow of burning fuel gas from the torch tip from entering said chamber and causing a backfire in the torch.

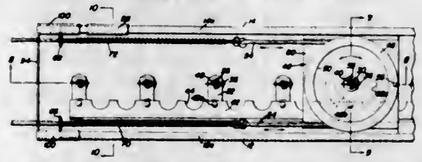
2,611,425
SELF-GASIFYING HEATING EQUIPMENT
Roberto Martiri, Buenos Aires, Argentina
Application February 27, 1947, Serial No. 731,297
5 Claims. (Cl. 158—63)

1. A burner system for heavy liquid hydrocarbon fuel comprising a gasifier member in the form of a straight tubular member, a filling of a porous mass of metal within said member, said gasifier member constituting at one end a fuel preheating chamber and at the opposite end a first gas chamber, fuel conducting means to supply the liquid fuel by gravity to said preheating chamber, means forming a second tubular gas chamber member connected to said first gas chamber and arranged adjacently to said tubular gasifier member, a plurality of main burners and a separate auxiliary burner in the form of an elongated tubular member extending in heat transmitting relationship along and below said gasifier member and said first and second gas chambers, each of said main burners being provided with a separate low pressure vaporized fuel supply system com-



prising a mixing chamber, an air inlet duct and a nozzle connected directly to said second gas chamber, said auxiliary heating burner being provided with a separate low pressure vaporized fuel supply system comprising a mixing chamber, an air inlet duct and a nozzle connected directly to said first gas chamber.

2,611,426
VENETIAN BLIND, INCLUDING VERTICAL TAPES AND MEANS FOR TWISTING THE UPPER AND LOWER ENDS OF TAPES INDEPENDENTLY
Elwin E. Randall, Grand Rapids, Mich., assignor to Servall Products, Inc., Grand Rapids, Mich., a corporation of Michigan
Application January 30, 1950, Serial No. 141,198
2 Claims. (Cl. 160—176)

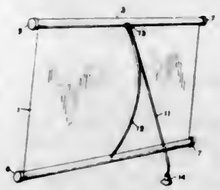


1. For use with a vertical blind, an operating mechanism comprising a supporting member including a flat horizontal wall having a plurality of longitudinally spaced apertures therein, a plurality of longitudinally spaced tape holders having upper resilient looped portions journaled for rotation in the apertures, actuating arms having inner ends formed with apertures yieldingly receiving said looped portions, abutments carried by said looped portions, washers received on said looped portions underlying the arms and resting upon said wall, coil springs embracing said looped portions and biased between said abutments and said arms and yieldingly urging said washers against said wall to retain the holders in a selected rotated position, a common operating bar for each of the holders and pivoted to each arm, and a disk centrally pivoted to the member for rotation and eccentrically pivoted to the bar.

2,611,427
PORTABLE PICTURE SCREEN
Leo J. Du Mais, Chicago, and Hugo Bernzott, Niles, Ill., assignors to Da-Lite Screen Company, Inc., a corporation of Illinois
Application December 16, 1948, Serial No. 65,547
5 Claims. (Cl. 160—329)

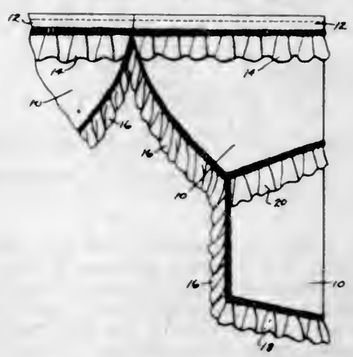
1. In a device of the class described, a pair of elongated tubes each containing a longitudinal

slot extending from end to end of each of said tubes with the slots facing each other, the marginal portions adjacent the tube slot being bent inwardly of the tube and diagonally toward each other whereby the free longitudinal edges terminate short of actual abutment and form a pair of jaws, the free edges of said portions being raw, a sheet of flexible material, the upper and lower ends of said material adapted to be retained in said tubes respectively, means positioned on said material adjacent the upper and lower ends thereof and in a plane substantially parallel thereto, whereby to form a series of spaced protuberances on said material, cap means on the



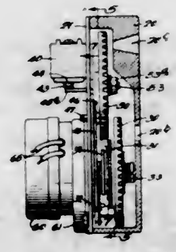
ends of each of said tubes having a smaller internal diameter than the outer diameter of said tubes to compress said tubes and securely anchor the upper and lower ends of said material and said protuberances in said respective tubes, and spring means to spread said tubes apart and support said tubes whereby said material is positioned in a substantial vertical plane, the spreading of said tubes by said supporting means exerts tension on said material and causes said protuberances on said material to bear against the jaws of said respective tubes whereby to further close the same and additionally grip said material and prevent accidental displacement thereof from said tubes.

2,611,428
ELASTIC TIED BACK CURTAIN
Robert Sam Van Cleeff, Memphis, Tenn., assignor to The Fashion Curtain Company, a corporation of Tennessee
Application November 15, 1950, Serial No. 195,833
6 Claims. (Cl. 160—349)



1. A window curtain comprising an elongated vertically disposed panel, a ruffle secured along the inner edge of said panel, an elastic strip secured along a line generally transversely across said panel intermediate its length, said panel being normally gathered along said line and yieldingly retained in gathered condition by said strip, said elastic strip when untensed being of a length slightly in excess of the gathered width of said panel along a horizontal line adjacent said gather line and being disposed diagonally of said panel with the inner and outer ends of said elastic strip being respectively flush with the inner and outer edges of said panel to automatically drape said panel in a predetermined position, a sash ruffle positioned along said gather line, said sash ruffle and said elastic strip being secured to said panel by a common double row of stitching spaced respectively below and above the upper and lower edges of said elastic strip, attaching said strip to said panel centrally along the length of said strip establishing upper and lower free edge portions, each said edge portion being of a depth substantially equal to the space between the rows of said stitching.

2,611,429
TIME-CONTROLLED SWITCH
Chauncey Gordon Reynard and Harry L. Hart, Fort Wayne, Ind., assignors to Basic Products Corporation, Fort Wayne, Ind., a corporation of Indiana
Application January 26, 1950, Serial No. 140,648
12 Claims. (Cl. 161—1)

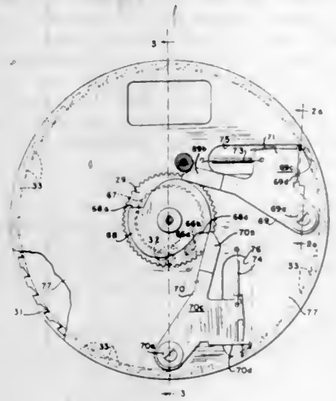


1. In combination, a cam follower, means for effecting its periodic movement through a predetermined locus at a controlled rate of speed, a cam having a curved face mounted adjacent the locus of the cam follower, a pivot for the cam, manually operable means for shifting the normal position of the cam through a portion of the locus of the cam follower, an electrical switch, and mechanical linkage coupling the cam and the switch operative to actuate the switch responsively to engagement of the cam and cam follower, said mechanical linkage comprising manually operable means for setting to a predetermined value within a range the relative position of the switch and the cam when said cam and said cam follower are not in engagement.

2,611,430
PROGRAM-SCHEDULING APPARATUS
Harold F. Elliott, Oakland, Calif.
Application January 3, 1951, Serial No. 204,255
7 Claims. (Cl. 161—1)

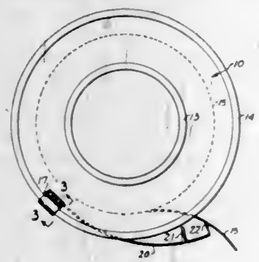
1. In a program apparatus for setting up a predetermined series of operations within a given time interval and including a continuously driven timing element, an operating member and a supporting member carrying a plurality of elements settable in correspondence with desired time intervals, said members being relatively movable to register said settable elements with said operating member, a precision driving mechanism for one of said members comprising: a driven member unitary with said one of said members and including a series of stops related in number to the number of desired time intervals within said given time interval; an energy-storage lost-mo-

tion driving connection between said timing element and said driven member; latching means disposed to engage said stops in sequence to restrain said driven member; and an auxiliary precision timing member adapted to be driven by said timing element with a higher speed ratio



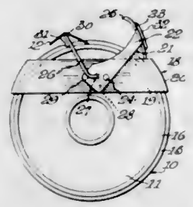
than said driven member for periodically releasing said latch means, thereby to impart a step-by-step snap-action relative movement between said operating member and said supporting member.

2,611,431
TAPE CUTTER FOR SPOOLS
Sidney A. Sherrill, Hickory, N. C.
Application April 22, 1947, Serial No. 743,070
1 Claim. (Cl. 164—84.5)



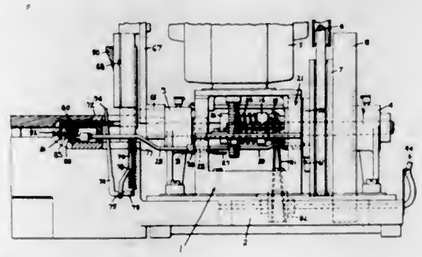
A tape cutter for a spool having a hollow barrel member around which a supply of adhesive tape is disposed, said barrel member having heads at opposed ends thereof, and each of said heads having a peripheral flange, said tape cutter comprising a transverse plate, the outer ends of said plate having reversely curved portions for clampingly engaging the outer edges of said peripheral flanges, a leaf spring having one end thereof rigidly secured to said transverse plate, said leaf spring having an inwardly directed U-shaped projection intermediate the ends thereof, said U-shaped projection and the free end of said leaf spring normally lying in a plane outside the area defined by said peripheral flanges, the outer free end of said leaf spring being sharpened and turned inwardly towards the barrel member and forming a cutting edge, whereby said leaf spring may be pressed inwardly to cause the U-shaped projection to engage the tape disposed on the barrel member after a length of tape has been withdrawn from the barrel.

2,611,432
TAPE DISPENSING DEVICE
Arthur F. Tallman, Eugene, Oreg.
Application July 21, 1947, Serial No. 762,240
2 Claims. (Cl. 164—84.5)



1. A tape dispenser comprising a tape container for housing a roll of tape, a tape-severing element presenting a cutting edge and pivotally mounted with respect to said container for swinging movement from a tape-severing position whereat the said cutting edge engages the periphery of the container to a retracted positon whereat the cutting edge is spaced outwardly from the said periphery to facilitate the free feeding of the leading end of a roll of tape from said container, and a tape-lifting element presenting a cross-bar to underlie the leading end of the tape, said tape-lifting element being pivotally mounted on said tape-severing element eccentrically of the fulcrum of the latter for imparting outward movement to said cross-bar with respect to the periphery of the container and relative bodily movement of the cross-bar with respect to the said severing element in response to the retraction of the latter.

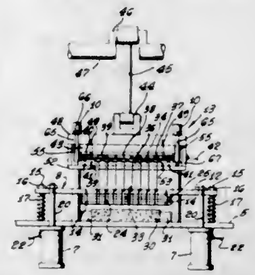
2,611,433
CUTTING MACHINE
Albert A. Rembold, San Francisco, Calif.
Application November 17, 1947, Serial No. 786,457
6 Claims. (Cl. 164—86)



1. In a cutting machine having a stationary shear plate and a cutter element having a cutting edge adapted to slot out one of the marginal perforations in a marginally perforated selective sorting card to the edge of the card nearest said perforation upon reciprocation of said cutting edge past said shear plate when said cutter is reciprocated, means supporting said element for said reciprocation, power means for so reciprocating said element, card positioning means for positioning such sorting card in a position for so slotting out a desired perforation in its margin including a member adapted to extend through said desired perforation and movable with said card from a point out of said position to said position, movable means for connecting said power means with said cutter element upon a predetermined movement of said movable means.

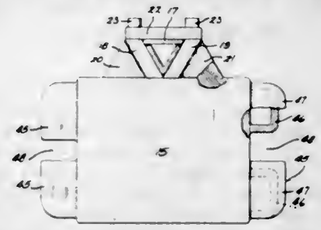
and means connecting said member with said power means and with said movable means for causing said predetermined movement upon movement of said card to said position.

2,611,434
CORING OR PERFORATING DEVICE
Charles M. Mugler, Los Angeles, Calif.
Application January 12, 1948, Serial No. 1,803
6 Claims. (Cl. 164—90)



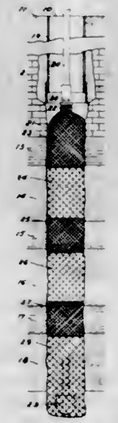
1. A device for simultaneously punching a plurality of holes distributed over the entire area of a rectangular tile of fibrous and resinous material, comprising a rectangular base plate for supporting said tile during the coring operation, guides having a height less than the thickness of said tile for positioning said sheet on said plate, a rectangular index-pressure plate adjacent said base plate, means for bringing said index-pressure plate into contact with the surface of said tile at a predetermined pressure determined by the difference between the height of said guides and the thickness of said tile, said plate and guides increasing the density of said tile determined by the fibrous and resinous nature of said tile, a rectangular punch plate adjacent said index-pressure plate, a plurality of punch rods having one end of each rod attached to said punch plate, said rods being uniformly distributed over the area of said plate and adapted to pass through holes in said index-pressure plate for aligning and guiding said rods into said tile, means for heating said rods, and crank means for moving said rods in said holes and into said tile.

2,611,435
DIE SET
Kasimir Janiszewski, Milwaukee, Wis., assignor to Superior Steel Products Corp., Milwaukee, Wis., a corporation of Wisconsin
Application May 24, 1946, Serial No. 672,053
7 Claims. (Cl. 164—118)



1. As a new article of manufacture, a die set plate provided with a leader pin receptacle having flat interior surfaces arranged in polygonal outline, said receptacle comprising at least one relatively movable wall providing one of said flat surfaces, a portion of said receptacle, including at least the said movable wall, being outside of the outline of said plate.

2,611,436
APPARATUS FOR INJECTING FLUIDS INTO WELL BORES
Richard H. Carr, Chicago, and Kenneth A. Covell, Winnetka, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application April 26, 1948, Serial No. 23,338
4 Claims. (Cl. 166—1)

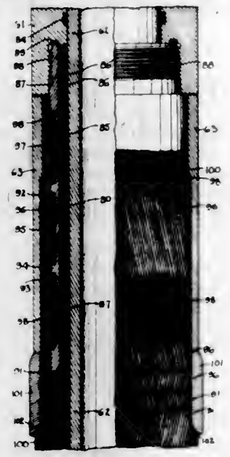


3. An apparatus for adjusting the resistance to fluid flow of the walls of an earth bore passing through a plurality of subterranean earth strata of different permeabilities which comprises a multisectional packer, the sections of which are fluid pervious, flexible and inflatable to a shape substantially matching the diameter of the bore and length of strata to be treated, the respective sections of said packer being of different permeabilities, said permeabilities being inversely related to the permeability of the stratum contiguous to each section and the length of each section being substantially coextensive with the length of the respective stratum contiguous thereto, said permeable sections being prepared from naturally pervious, woven fabrics, a means attached adjacent to the terminal extremity of said packer for affixing a weight thereto, a conduit communicating with the interior of said sections for introducing fluid thereinto, and a means communicating with the interior and exterior of the sections to provide for the maintenance of a predetermined pressure differential between the interior and exterior thereof sufficient to seat said sections against the wall of the earth bore, said means being adapted to provide unidirectional fluid flow from within the said sections.

2,611,437
HIGH PRESSURE INFLATABLE PACKER
John Lynes, Houston, Tex., assignor to Lynes, Inc., Houston, Tex., a corporation of Texas
Original application January 29, 1943, Serial No. 473,928. Divided and this application December 17, 1948, Serial No. 65,843
12 Claims. (Cl. 166—10)

1. A hydraulically inflatable packer for wells comprising an inner tube of expansible material a separate annular anchor nipple overlying each end of said inner tube, an expansible sheath including metal strands surrounding said inner tube and said anchor nipples, an outer tubular casing

of resilient material overlying said sheath, and a separate packer head for each end of said



packer anchoring said sheath between such head and said anchor nipples.

2,611,438

VALVE FOR PRESSURE BAILERS

Walter R. Hanline and James W. E. Hanes, Ventura, Calif.

Original application August 7, 1948, Serial No. 43,135. Divided and this application August 19, 1950, Serial No. 180,484

2 Claims. (Cl. 166—19)



2. A control valve for pressure bailers, said bailer including a tubular pressure top, a plunger barrel threaded onto the pressure top and a dump bottom threaded onto the plunger barrel, said tubular pressure top having ports therein, a pipe slidably mounted in said pressure top and extending through said plunger barrel and attached to said dump bottom said pipe being of smaller diameter than the inside of the pressure top, expandable ring packing mounted on the upper end of said pipe above the ports, a spider on said pipe engaging the bottom of said packing, a shoulder in the pressure top engageable by the spider to permit expansion of the packing on downward movement of said pipe, means on the pipe engaging the top of the packing said packing engaging the pressure top when expanded to seal off said pressure top adjacent said ports.

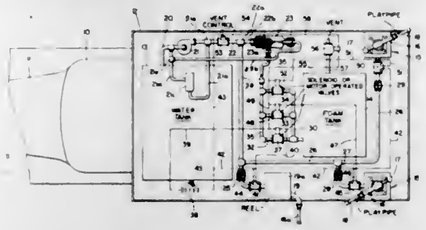
2,611,439

AUTOMATIC FOAM COMPOUND PROPORTIONING MEANS FOR FIRE EXTINGUISHERS

James Faulkner, Nutley, N. J., assignor to Pyrene Manufacturing Company, Newark, N. J., a corporation of Delaware

Application December 13, 1950, Serial No. 200,591

18 Claims. (Cl. 169—15)



1. In a fire extinguishing system having separate sources of supply for water and foam compound respectively, conduits for delivering said water and compound separately to a mixing point, and a conduit for delivering a mixture of said water and compound to at least one foam producing nozzle, the combination comprising a source of electric current, an electrically operated valve associated with said foam compound source, a circuit from said current source to and through said valve for operating the same, a switch in said conduit, and means carried by one of said conduits along the path of flow of water from its source to said mixing point and actuated in response to such flow for controlling the operation of said switch.

2,611,440

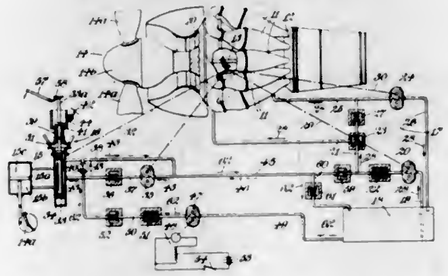
PITCH CONTROL AND FEATHERING MECHANISM FOR VARIABLE PITCH PROPELLERS

Lionel Haworth, Derby, and Christopher Linley Johnson, Allestree, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application January 19, 1950, Serial No. 139,466

In Great Britain February 2, 1949

2 Claims. (Cl. 170—135.71)



2. For use with an engine having a variable pitch airscrew, the combination with a circulatory engine oil pressure system, a constant speed governor unit for controlling the airscrew pitch comprising a closed hydraulic circuit, a conduit connecting the closed hydraulic circuit with the circulatory engine oil pressure system to convey oil from the engine oil pressure system to the closed hydraulic circuit, and a feathering and unfeathering hydraulic circuit for the airscrew, comprising a fluid reservoir and said conduit to convey return fluid of the feathering and unfeathering hydraulic circuit; of valve means connected in said conduit to prevent the return fluid of said feathering and unfeathering hydraulic circuit flowing into said engine oil pressure system, and means connected to convey said return fluid from said conduit to said reservoir and arranged to operate when the pressure of said return fluid in said conduit attains a selected value in excess of the pressure in said engine oil pressure circuit.

ERRATUM

For Class 170—160.25 see:
Patent No. 2,611,344

2,611,441

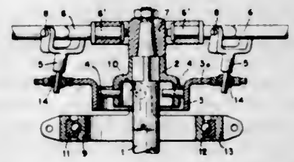
ECCENTRIC CYCLIC PITCH CONTROL MECHANISM FOR ROTORS OF AIRCRAFT

Jaroslav Šlechta, Prague, Czechoslovakia, assignor of one-half to Aviation Works, National Corporation, Prague, Czechoslovakia

Application January 28, 1948, Serial No. 4,744

In Czechoslovakia November 15, 1946

4 Claims. (Cl. 170—160.25)



1. A cyclic pitch control mechanism for aircraft having a rotor shaft, a rotor hub keyed thereupon, and rotor blades mounted in said hub for oscillation about their longitudinal axes, said control mechanism comprising three gimbal members concurrently rotating with said shaft, namely an inner driving member attached to said shaft, an outer ringlike control member surrounding said inner driving member, and an intermediate ringlike coupling member between said inner member and said outer member, said intermediate and said outer member mounted for eccentric displacement relative to each other and to the rotor shaft, a bearing rotatingly supporting said outer member and mounted for eccentric displacement relative to the rotor shaft, means to effect said displacement of said bearing, said intermediate member and said outer member while rotating with the rotor shaft executing a cyclic radial reversing motion relative to the rotor shaft during each revolution, and means transmitting said radial reversing motion to the rotor blades and converting such motion into a cyclically alternating angular motion of said rotor blades to change their pitch.

2,611,442

STEERING MECHANISM FOR TRACTORS

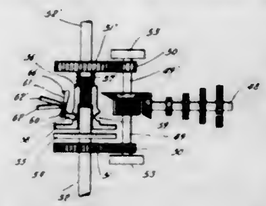
Georges Alfred Thomas, Paris, France

Application October 24, 1946, Serial No. 705,297

In France October 26, 1945

3 Claims. (Cl. 180—6.2)

1. In a vehicle of the type having a main body, an engine mounted on said body and two half drive axles projecting out of said body; steering mechanism comprising a differential driving gear for operatively connecting the engine to the two half drive axles, two independent brakes each operative to brake one of the half drive axles, a friction clutch having two engageable friction members each of which is directly keyed on a corresponding half drive axle and operative when engaged to couple together said half drive axles without rotatory backlash, control means for said clutch, control means for each brake and steer-



ing means operatively connected to the control means for the clutch and to the control means for the brakes and adapted to simultaneously control said clutch and selectively one of said brakes.

2,611,443

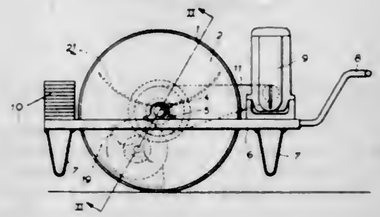
TAMPING ROLLER

Jean Michel Paramythiotl, Rantigny, France, assignor to Société Anonyme des Anciens Etablissements Albaret, Rantigny, France, a corporation of France

Application September 8, 1948, Serial No. 48,273

In France September 24, 1947

4 Claims. (Cl. 180—20)



1. A tamping roller comprising in combination, a frame, a transverse shaft mounted in said frame, a roller mounted on said shaft and supporting said frame, a driving wheel mounted on said shaft, an epicyclic gearing having two sun-gear members and a planetary carrier member coaxial with said shaft, and a weight having its center of gravity eccentric to said shaft rigidly connected with one of said members, the other two members being respectively rigid with said roller and with said driving wheel.

2,611,444

LOADING MACHINE HAVING A HYDRAULIC CONTROL SYSTEM FOR TRACTION MEANS

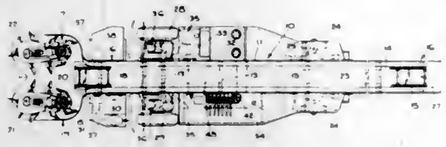
Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Original applications April 10, 1944, Serial No. 530,361, now Patent No. 2,589,827, dated March 18, 1952, and December 3, 1947, Serial No. 789,383, now Patent No. 2,527,943, dated October 31, 1950. Divided and this application June 23, 1950, Serial No. 169,858

4 Claims. (Cl. 180—43)

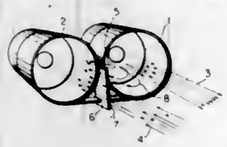
1. In a loader, the combination with a frame, a pair of traction wheels supporting one end of said frame, means for supporting the other end of said frame for pivotal movement, said traction wheels being positionable in parallel relation to drive said loader longitudinally and in tandem relation to drive one end of the loader laterally while its other end pivots on said pivot means, separate motors for driving said wheels, and con-

trol means for said motors whereby said wheels may be driven together in reverse directions both in parallel and in tandem relations to drive the loader as aforesaid, said control means including



a hydraulic system having valve means operable selectively to reverse the direction of rotation of one of said motors relative to the other and to operate both of them in parallel.

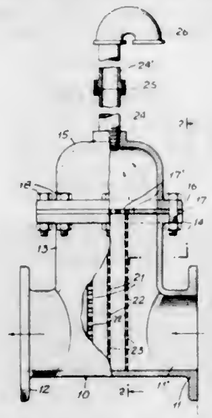
2,611,445
ECHO RANGING SYSTEM
Willard F. Meeker and Frank H. Slaymaker, Rochester, N. Y., assignors to Stromberg-Carlson Company, a corporation of New York
Application January 29, 1948, Serial No. 5,038
10 Claims. (Cl. 181—0.5)



3. In an echo ranging system, in combination with a pair of directional transducers facing in the same direction and disposed in close proximity with their axes of maximum response substantially parallel, one of said transducers providing a beamed radiation adapted to be reflected by a distant object and the second transducer being adapted to be energized by said reflected radiation, the beamed radiation being subject to diffraction whereby a spurious response may be produced by said second transducer, and means for minimizing the effect upon said second transducer of energy transfer due to said diffraction from said first transducer comprising a barrier disposed between said transducers substantially perpendicularly to the plane including said axes and parallel to said axes and extending across only a portion of the diffraction path between said transducers, the angle between the plane of the openings of said transducers and the edge of said barrier remote from said transducers being so chosen and the axial length of said barrier being such that the energy directly diffracted between said transducers is substantially canceled by the energy diffracted around said barrier.

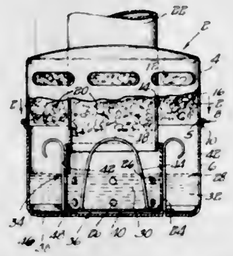
2,611,446
AIR AND EROSION OR CORROSION ELIMINATOR DEVICE
William M. Kennedy, Lyndhurst, and Bengt E. Meurk, Upper Montclair, N. J.
Application March 22, 1950, Serial No. 151,172
2 Claims. (Cl. 183—2.5)

1. An air and erosion eliminator device for circulating systems through which aerated water is circulated, said device comprising a T-shaped tubular body having opposed flanged inlet and outlet ends, an intermediate portion including an upwardly extending air outlet portion substantially rectangular in cross-sectional form, the intermediate portion forming a straight line communication between said inlet and outlet ends, a domed cap for said air outlet portion, a horizontal screen arranged and secured between the cap and air outlet portion, a plurality of screens arranged vertically in said device and extending into said air outlet portion and abutting said horizontal



screen, said screens forming baffles for liberating air intermediate the intake and discharge ends of the device for discharge into said outlet portion, a vent pipe coupled with and communicating with said domed cap, and the screens of said device comprising perforated iron plates having anodic characteristics encouraging formation of corrosion thereon.

2,611,447
DIRT TRAY FOR AIR FILTERS
Charles R. Taylor, Scott City, Kans.
Application August 6, 1947, Serial No. 766,567
6 Claims. (Cl. 183—15)

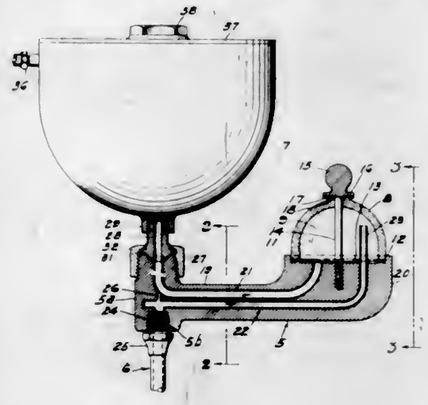


1. In an air filter structure having a cup for collecting filtered particles, a removable tray comprising a floor portion, handle means, said handle means extending from said floor portion to facilitate removal of said tray, and spring means mounted on said floor portion and adapted to be flexed relative to said floor portion to facilitate removal of particles from said floor portion.

2,611,448
OIL AND OIL FILTER CONDITION INDICATOR
Frederick M. Walls, Sun Valley, Calif., assignor, by mesne assignments, to Roger T. Schmitz, Altadena, Calif.
Application August 27, 1949, Serial No. 112,709
3 Claims. (Cl. 184—6)

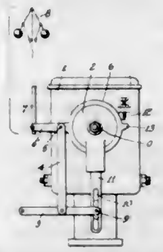
1. An oil flow and condition indicating means for the oil circulatory conduit system of an automotive engine equipped with a crank case and

an oil filter through which the oil flows from the crank case and back again comprising a horizontally extending elongated member having an inner end portion secured in said oil circulatory conduit system between said filter and crank case and an enclosed oil chamber carried by the opposite end portion of said elongated member, said chamber having a transparent wall portion through which the oil therein is observable, said elongated member having within it an upper longitudinally extending conduit into which all the oil flow through said circulatory system is con-



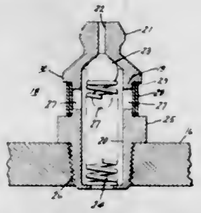
ducted, said conduit leading to the lower part of said chamber, and a lower longitudinal conduit within said elongated member, the latter conduit communicating with the upper portion of said chamber and conducting the oil therefrom back to said oil circulatory system, there being a bleed passage which connects said longitudinal conduits with each other to drain the oil out of said chamber after said engine has stopped running, each of said longitudinal conduits having an oil flow capacity much greater than that of said bleed passage.

2,611,449
LUBRICATING PUMP
Heinrich Etzelt, Vienna, Austria, assignor to Alex. Friedmann, Kommanditgesellschaft, Vienna, Austria
Application July 29, 1947, Serial No. 764,523
In Germany November 15, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires November 15, 1963
6 Claims. (Cl. 184—27)



1. A lubricating system for use with a machine having a plurality of lubricant receiving locations and operating at various rotational speeds, comprising a lubricating pump aggregate operatively connected to be operated by said machine having a plurality of outlets, means for connecting said outlets to said locations, a plurality of pumping units in said pump for delivering lubricant to said respective locations in predetermined quantities, means for varying the delivery capacity of said pump aggregate, means for controlling said delivery varying means in response to the rotational speed of the machine connected thereto, and means for rendering ineffective said control means in positions thereof corresponding to speed below a predetermined speed.

2,611,450
LUBRICANT FITTING
Irving Kalikow, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application January 27, 1951, Serial No. 208,154
3 Claims. (Cl. 184—105)

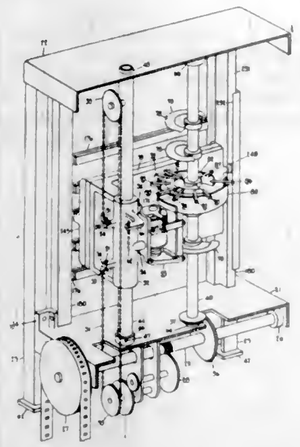


1. A pressure controlling lubricant receiving fitting having a main body portion provided with an axial bore therethrough and terminating in a nipple adapted to receive a mating fitting for the introduction of lubricant under pressure to said axial bore, said body portion having a plurality of outer lands defining an annular groove and having transverse passageways interconnecting said axial bore and said annular groove, and means including a circlet spring having a constant force deflection characteristic and arranged in said groove to cover said transverse passageways to prevent the discharge of lubricant through said passageways until a predetermined pressure is reached within said bore at which time said constant force deflection characteristic circlet spring will suddenly extend outwardly to rapidly discharge lubricant to said annular groove.

2,611,451
CONTROL MECHANISM
David Carl Larson, Yonkers, N. Y., assignor to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application May 20, 1950, Serial No. 163,233
8 Claims. (Cl. 187—29)

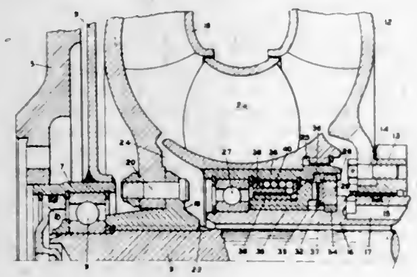
8. Selector levelling mechanism for an elevator car comprising; a crosshead actuated linearly in accordance with movement of the elevator car; a shaft extending parallel to the line of movement of said crosshead and rotated in accordance with the speed of the elevator car; a plurality of cams, one for each floor served by the car, arranged on said shaft to be rotated thereby and positioned in spaced relationship thereon in accordance with the distances between the floors for which they are provided, each cam having a helical contacting segment of conducting material of a pitch equal to the travel of the crosshead per revolution of said shaft; a plurality of circuit controlling devices common to said floors for cooperation with said contacting segments, said devices being arranged in an up group and a down group with corresponding devices of each group spaced substantially equidistant on each side of the center of each contacting segment

with the car stopped at the floor for which the contacting segment is provided, each circuit controlling device having a contacting member adapted to be slidingly engaged by the faces of said contacting segments, and certain of said circuit controlling devices having switch contacts operated by the engagement of said contacting member of that device by a contacting segment; an electromagnet carried by said crosshead; and a support for said circuit controlling devices for



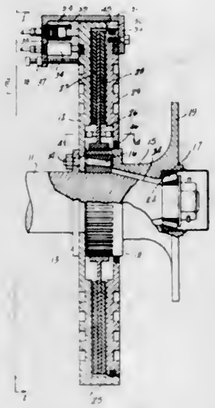
mounting them in helical relation corresponding to the pitch of said contacting segments, said support being carried by said crosshead and operable by said electromagnet upon energization thereof to move said circuit controlling devices into position to clear said contacting segments during running of the car and being operable upon de-energization of said electromagnet to move said circuit controlling devices into position for co-operation with said contacting segment for the next floor to be reached by the car.

2,611,452
TORQUE CONVERTER BRAKE CONSTRUCTION
Robert Lapsley, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application August 3, 1948, Serial No. 42,258
4 Claims. (Cl. 188—82.6)



1. In a torque converter including a stator having a hub, the combination of a fixed sleeve member projecting into the hub of the stator, said fixed sleeve member having external helical splines, bearing means journaling one end of the stator hub on said sleeve member, a first brake element secured within the other end of the stator hub and journaled on said sleeve member, a second brake element mounted on said helical splines within the confines of the stator hub for axial threaded movement toward and away from said first brake element, an axially fixed coil spring friction clutch disposed within the confines of the stator hub operable upon rotation of the stator in one direction to clutch said second brake element to the stator hub whereby said second brake element is threaded into clutching engagement with said first brake element.

2,611,453
HYDRAULIC DISK BRAKE
Kenneth J. Vaughn, Middletown, Va.
Application July 6, 1951, Serial No. 235,463
2 Claims. (Cl. 188—152)

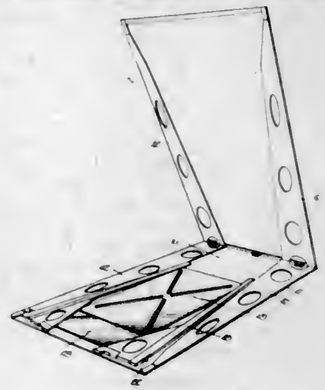


1. In a vehicle, a spindle, a hub rotatably mounted on said spindle, a disc member rigidly secured to said spindle, a notched peripheral flange on said disc member, an annular plate member slidably and rotatably engaged on said hub parallel to said disc member, respective brackets secured to said plate member and slidably engaging the notches in said flange, said brackets extending around said flange to the opposite side of said disc member, expansible fluid pressure means on said brackets engaging said disc member and being arranged to move said plate member toward said disc member, and a friction disc slidably and non-rotatably engaged on said hub between said disc member and said annular plate member and arranged to be brakingly urged against said disc member when said plate member is moved toward said disc member.

2,611,454
COLLAPSIBLE BUILDING
David D. Arehart and Ralph T. Dittmer, Flint, Mich., assignors to Palace Corporation, Flint, Mich., a corporation of Michigan
Application September 20, 1946, Serial No. 698,147
4 Claims. (Cl. 189—2)

1. In a collapsible building structure, a pair of roof sections hingedly connected together at an end of each section, and a roof girder structure hingedly connected to a lateral edge of the connected roof sections, said girder structure comprising two sections, one hinged to each roof section, said girder sections being hingedly connected together in substantially the same plane as the roof sections whereby the girder sections

may be folded against the under face of the roof sections as the roof sections are folded together,



the hinge serving as a connector under tension when the members are in erected position.

2,611,455
PORTABLE OIL WELL DERRICK
Ridley Woods, Long Beach, Calif.
Application September 10, 1949, Serial No. 114,959
7 Claims. (Cl. 189—11)



7. A portable derrick that may be erected to provide a self-braced tripod structure which includes: a forward chassis portion and two rearward chassis portions pivotally connected thereto; wheels supporting said chassis portions; three legs, with one of said legs pivotally supported on each of said chassis portions, with said legs occupying longitudinally extending positions on said chassis portions when the derrick is in a portable condition; three extension legs with one of said legs telescopically mounted on each of said legs; hydraulic means to pivot said rearward chassis portions away from and toward one another; hydraulic means to pivot each of said legs upwardly to an inclined vertical position; hydraulic means to extend and retract said extension legs; a source of hydraulic fluid to actuate said hydraulic means; control means to regulate the flow of fluid from said source to said hydraulic means; a crown block assembly mounted on the upper end of one of said extension legs; means to removably join the upper ends of the other two of said extension legs to said crown block when said legs and extension legs are in a derrick forming position; a triangularly shaped platform pivotally mounted on one of said legs; means to lock said platform in a horizontal position to the other two of said legs when said legs are in a derrick forming position; and means to lock said platform to said rearward chassis portions to hold said legs in position thereon when said derrick is in a portable condition.

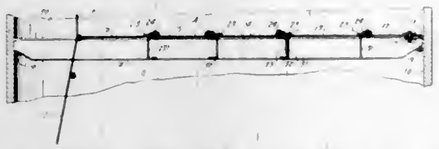
2,611,456
RETRACTILE ANTENNA MAST ASSEMBLY
Gillis E. Bader, Bellville, Tex.
Application May 13, 1949, Serial No. 93,137
3 Claims. (Cl. 189—15)



3. A retractile antenna mast assembly comprising a fixed support, a first mast section secured at one end to said fixed support for movement about a substantially horizontal axis, a guide secured to said first mast section at the other end of the latter for swinging movements about an axis substantially parallel to said horizontal axis, a second mast section longer than said first mast section and having its longitudinal center line substantially in a plane perpendicular to said axes and including the longitudinal center line of said first mast section, said guide engaging said second mast section for longitudinal sliding movement of said second mast section relative to said guide, an abutment carried by said second mast section intermediate the length thereof and bearing against said guide at one end of the latter to enable said second mast section to function as a push pole for manually raising said other end of said first mast section to move the latter from a substantially horizontal position to an upright position, guy wires secured to said first mast section at said other end thereof supporting said first mast section in upright position, a strand depending from one end of said second mast section for manually pulling said one end downwardly and swinging said second mast section about the axis of movement of said guide to an upright position after said first mast section has been secured in upright position, said strand constituting a ground wire for the antenna mast, said second mast section being adapted to carry an antenna mounted on the upper end thereof, socket means interconnecting said first and second mast sections at the bottom end of said second mast section after the latter has been moved to upright position supporting said second mast section in longitudinal alignment with said first mast section and in a selected position of longitudinal adjustment of said second relative to said first mast section, a set of guy wires connected at one end to said second mast section near the other end thereof supporting said

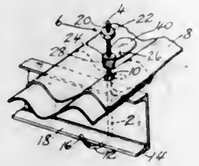
second mast section in upright position, and hand operated means connected to said second mast section adjacent said socket means for imparting rotational movement to said second mast section while the latter is held in upright position.

2,611,457
REFINING VESSEL
Hans C. Glitsch, Dallas, Tex., assignor to Glitsch Engineering Company, Dallas, Tex., a partnership
Application October 8, 1948, Serial No. 53,585
2 Claims. (Cl. 189—34)



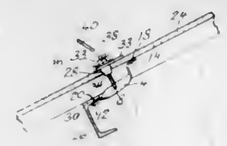
1. A refining vessel tray including, a plurality of elongate deck sections of light gauge metal incapable of absorbing thermal stresses, the sections being supported at their ends and disposed with their longitudinal edge portions in adjacent substantially parallel relationship, said sections having major flat portions, an upset horizontal flange on one of the longitudinal edge portions of adjacent sections overlying and resting upon the edge portion of the other section, and integral flange depending from the underlying edge portion for reinforcing its section and providing a support therefor and for the upset horizontal flange, and frictional fasteners carried by each deck section adjacent its underlying edge portion in transversely spaced relation to said upset flange and overlying said flange to clamp the same against upward displacement relative to said underlying edge portion, the sections having the upset flanges being spaced from adjacent sections a distance greater than the width of their flat portions whereby said flat portions are spaced transversely from the underlying edge portions of adjacent sections, whereby lateral thermal expansion and contraction of adjacent sections is permitted.

2,611,458
FASTENING MEANS FOR ROOFING AND SIDING MATERIAL
Andrew B. Hammitt and Herbert L. Birum, Jr., Trenton, N. J.
Application January 22, 1946, Serial No. 642,636
1 Claim. (Cl. 189—35)



In a building structure embodying sheet material applied to a structural framework element having an inner laterally extending flange and having an opening in the sheet material located adjacent the structural framework element, the combination of means securing said sheet material to said element including a rod having one end which is threaded and projects through said opening, the opposite end of said rod having a laterally extending portion being angularly disposed with respect to the edges of said flange provided at its end with an inwardly turned extremity which is spaced from said rod a distance exceeding the width of said flange and embracing and overlying the edge of said flange, said extremity being off-set so as to project to one side from a plane containing said rod and laterally extending portion so as to permit insertion of the extremity into said opening and subsequent lengthwise threading of the fastening means through the opening from the exterior of the sheet and into retaining engagement with the framework element, deformable sealing means surrounding the threaded end of said rod, and retaining means engaging the threads on said rod and cooperating with said sealing means for filling the space between said rod and the sides of the opening to seal the opening and hold said fastening means and sheet material in place on said structural element.

2,611,459
FASTENING MEANS
Andrew B. Hammitt and Herbert L. Birum, Jr., Trenton, N. J.
Application May 1, 1947, Serial No. 745,142
1 Claim. (Cl. 189—35)

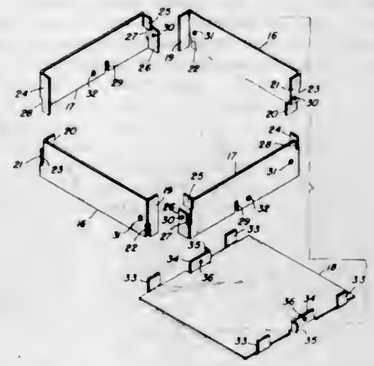


A fastening device for securing sheet material to a structural framework comprising a bolt having a shank with threads on one end thereof, the opposite end of the shank being reversely turned through substantially 180° and presenting an extremity which is substantially parallel to and adjacent the shank, a toggle member formed of strip stock and having a central portion with an opening therein engaging the reversely turned end of the shank, said portion lying between said shank and parallel extremity and held against lateral tilting thereby so as to be movable in a single plane between the shank and parallel extremity, said toggle member having opposite ends connected to said central portion by a twisted part and presenting engaging surfaces adjacent and supported by said twisted part, said engaging surfaces extending lengthwise of the toggle member and in opposite directions from said central portion and lying in planes at right angles to said central portion in position to engage the inner surface of framework and sheet material when the threaded end of the shank is passed through an opening in the sheet material adjacent the framework, one of said engaging surfaces lying in a plane parallel to the plane of the other engaging surface but offset above the plane of the opposite end.

2,611,460
DISCERPTIBLE STRUCTURE
Harold E. Nash, St. Louis, Mo.
Application May 17, 1948, Serial No. 27,530
1 Claim. (Cl. 189—36)

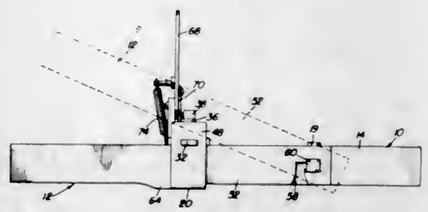
A discerptible structure comprising first and second members, a transverse flange provided on said first member, a longitudinal projection on said first member adjacent said flange, a tongue

on said projection parallel to said flange, said projection having an open ended slot therein, said second member having a transversely extending slot therein intersecting one edge thereof, said flange and said tongue receiving said second member therebetween, said slot in said second member receiving said projection of said first



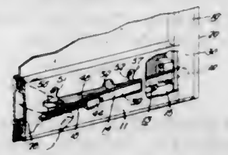
member, said slot in said projection receiving that portion of said second member which is axially aligned with said slot in said second member, said second member having a transversely extending portion adjacent said slot and said transversely extending portion abutting one side of said first member.

2,611,461
HITCH, INCLUDING MANUALLY OPERATED SLIDING LATCH MECHANISM
S Linn Miller, Poplar Bluff, Mo.
Application March 27, 1950, Serial No. 152,224
5 Claims. (Cl. 189—36)



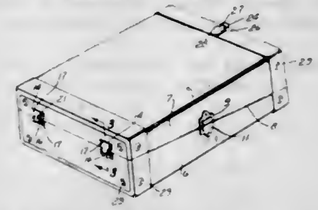
3. A hitch comprising a first frame member including a pair of parallel inner arms, a second frame member including a pair of parallel outer arms, said outer arms being pivotally and removably secured to said inner arms, said first frame member also including a U-shaped strap fixed to said inner arms and having end portions paralleling the inner arms, said outer arms being received between said inner arms and said end portions and supported on said strap, a guide extending between and secured to said inner arms, a pair of latch members slidably carried by said guide and overlying said inner arms, said end portions having openings for receiving said latch members, ears projecting laterally from the latch members, a lug rising from the guide and located between said ears, upper and lower links pivoted to said ears, a lever pivoted to said lug, and pivots securing said links to said lever, said lever being lowered to simultaneously move the latch members into the openings.

2,611,462
REMOVABLE SASH LOCK ASSEMBLY
Joseph W. Price, Topton, Pa., assignor to Transportation Sash Company, Inc., Topton, Pa., a corporation of Pennsylvania
Application October 30, 1950, Serial No. 192,883
7 Claims. (Cl. 189—72)



1. In a sliding metal window sash, a transverse hollow bottom member having an elongated opening in the face thereof, an upright side member joining one end of said bottom member and having a channel extending inwardly from the outer edge thereof to the interior of the bottom member, a latch supporting element located in the interior of the bottom member at the junction of that member with the side member and having latch receiving recesses opening to the side of the element which confronts the said opening in the bottom member, means for rigidly securing said element in place within said bottom member, a latch element slidably and detachably mounted in said recesses with one end thereof extending freely through said channel, a spring normally resiliently retaining the latch element in extended position projecting beyond the said outer edge of the side member, the said elongated opening being dimensioned and arranged to permit insertion and removal of said latch element from said recesses, a detachable cover plate for said opening, and a latch retracting device carried by, and including an actuating element on, the outer face of said cover plate.

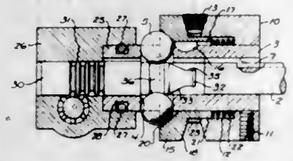
2,611,463
WARDROBE LUGGAGE HAVING SEPARABLE CASE PORTIONS
Esther K. Trimble, Piedmont, and Charles R. Yost, Oakland, Calif.
Application November 2, 1948, Serial No. 57,856
3 Claims. (Cl. 190—41)



1. In a storage device having a case section having a chamber therein and a cover section engageable in a parting plane with said case section and closing said chamber, interlocking connector elements carried by the case and cover sections at one end thereof and bridging said parting plane, said connector elements comprising separate base members secured to said end of the respective sections, one of said base members having an aperture therein overlying a recess formed in the end portion of one of said sections and the other of said base members being provided with a tongue extending toward and over said first base member and having a distal hooked end entering said aperture and recess and disposed to lie at a convergent angle with respect

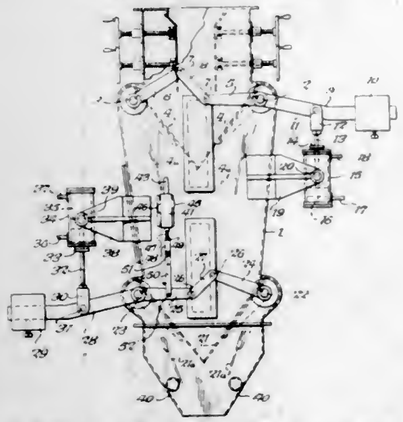
to said parting plane, said aperture being of a size just sufficient to receive said distal hooked end of said tongue whereby relative movement of said sections normal to said parting plane is prevented, interengageable fastener elements carried by the case and cover sections at another end thereof and bridging said parting plane for securing together said sections, and said fastener elements when interengaged retaining said distal hooked end in said aperture.

2,611,464
CAM OPERATED COUPLING
Rudolf Rabe, Inkster, Mich.
Application May 11, 1948, Serial No. 28,565
7 Claims. (Cl. 192—93)



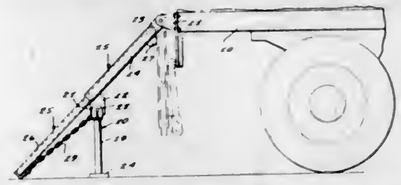
1. A clutch and operator therefor adapted for mounting on a torque transmitting shaft comprising, a sleeve adapted to be secured to the shaft, a pair of clutch elements mounted on the sleeve one of which is movable relative to the other, said sleeve having circumferentially spaced openings therein, a free body positioned in each opening and engageable with the movable clutch element, a support journalled on and supported entirely by the sleeve and co-axial with the shaft, an actuator mounted for axial shifting movement in the support, said actuator being on the axis of the shaft, control means including a control element mounted in the support so as to react thereon for shifting the actuator, and a tapered portion on the actuator for engaging and shifting the bodies radially outwardly to engage and shift the movable clutch element for causing clutch engaging action.

2,611,465
GATE CONTROL FOR FILLING COLUMNS
Forrest C. Simon, Piqua, Ohio, assignor to The French Oil Mill Machinery Company, Piqua, Ohio
Application July 18, 1950, Serial No. 174,422
11 Claims. (Cl. 193—32)



1. A filling device comprising an upright filling conduit, a plurality of gates in said conduit and spaced apart vertically to stop the flow of material along the conduit at different positions but operable individually between open and closed positions, a fluid operated motor connected to and operating the upper of said gates between open and closed positions, another fluid operated motor connected to and operating the lower of said gates between open and closed positions, a valve for each motor, pipes from each valve to its motor to control operation of the motor and open or close the gate, a hesitating valve in series in the pipe to that side of the motor for the lower gate which controls the operation of the motor in a direction to cause opening of the lower gate, an operating connection from said hesitating valve to the lower gate for moving said hesitating valve from open position to closed position, when the lower gate is partly but not fully open but operable further in the same direction as the lower gate moves to fully open position, an auxiliary valve, a pipe connecting said auxiliary valve to said that side of the motor for the lower gate, and separate from said hesitating valve, and a connection for supplying operating fluid under pressure to each valve, whereby when said lower gate is caused to open by operation of its related control valve, it will partly open and stop until said auxiliary valve is operated to bypass said hesitating valve and cause continued opening of said lower gate to fully open position.

2,611,466
COMBINED LADDER AND EXTENSIBLE LOADING RAMP FOR PLATFORMS
Don R. Biggert and Herbert P. Goedicke, Marion, Ohio
Application April 6, 1948, Serial No. 19,408
2 Claims. (Cl. 193—41)



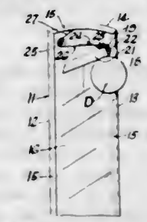
1. A loading ramp for attachment to an end edge of a platform comprising a vertically disposed plate adapted to be positioned with one face thereof abutting the end edge of said platform and dependingly carried by said platform, a pair of spaced vertically disposed hollow tubular members facing toward and spaced from the other face of said plate and connected at their upper ends to said other face of said plate adjacent the upper edge thereof for swinging movement from the vertical position to an inclined position with respect to said plate, a plurality of spaced rungs extending between said pair of tubular members intermediate the ends of the latter and secured to said tubular members, stop members projecting from the portions of said tubular members facing said other face of said plate adjacent the upper ends of said members and engageable with said other face of said plate when the tubular members are in their vertical positions, fixed lugs projecting from the portions of said tubular members facing said other face of said plate adjacent the lower ends of said tubular members, an inverted vertically disposed brace bar positioned between each of said tubular members and said plate and having the lower end engageable with said other face of said plate and having the upper end pivotally connected to the lug of the adjacent tubular member for swinging movement from its inverted vertical position to a normal vertical position, a second pair of vertically disposed tubular members supported in said first pair of tubular members for extensile and contractile movement through the lower ends of the latter and having the lower ends normally projecting from the lower ends of said first pair of tubular members, an angle iron connecting the projecting lower ends of said second pair of tubular members together, and a flexible member having one end secured to said angle iron intermediate its ends and having means on the other end selectively engageable with one of said rungs to hold said inverted brace bars and first and second pairs of tubular members in their vertical positions and with the pivotal connection of said inverted brace bars to said lugs when said first pair of tubular members have been swung to the inclined position, said second pair of tubular members have executed their extensile movement, and said brace bars have executed their pivotal movement to the normal vertical position.

2,611,467
TRANSFER DEVICE
Harvey P. Curlee, Raleigh, N. C., assignor to Curlee Machinery Company, Inc., a corporation of North Carolina
Application December 23, 1949, Serial No. 134,750
2 Claims. (Cl. 193—43)



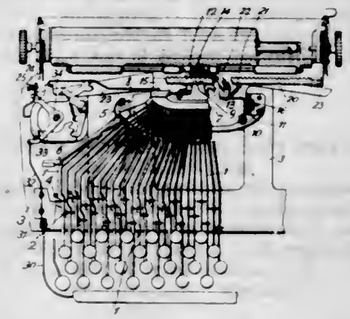
1. A device for turning simultaneously a plurality of flat-shaped articles from a flat lying position into groups of rows in edge standing position comprising a rectangular frame having an upper edge, a plurality of guide plates secured to said upper edge and projecting downwardly at progressively increasing angles, a plurality of complementary baffle plates secured to the opposite upper edge of said frame, and being spaced from their respective companion guide plates to form at their lower edges passageways for holding flat objects on edge.

2,611,468
COIN CHUTE MECHANISM
David C. Rockola, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application November 21, 1947, Serial No. 787,382
4 Claims. (Cl. 194—1)



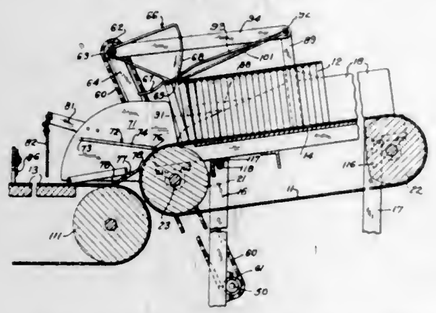
1. A coin chute, comprising a casing having a coin-receiving aperture in one wall thereof, a pivot pin mounted interiorly of said casing adjacent one end of said aperture, a member having a slot engaging said pin, said slot normally being disposed substantially normal to said apertured wall, and a spring mounted interiorly of said casing and engaging said member to normally maintain the outer surface thereof in closing relationship to said aperture, said pivot pin normally engaging the inner end of said slot, the other end of said aperture remote from said pivot pin being disposed at a predetermined distance therefrom equal to the maximum diameter of a desired small size coin plus the distance from said outer surface of said member to the inner end of said slot less the diameter of said pin, so that small size coins not larger than said maximum diameter inserted through said aperture will cause only pivotal movement of said member about said pin, and larger size coins of greater than said maximum diameter inserted through said aperture will also cause translational displacement of said member relative to said pin as permitted by the length of said slot.

2,611,469
TYPE ACTION SYSTEM FOR TYPEWRITERS
Otto Haas, Balzers, Tony Schaedler, Triesenberg, and Léon Schneider, Balzers, Liechtenstein, assignors to Anstalt Renor, Vaduz, Liechtenstein
Application February 4, 1948, Serial No. 6,166
In Switzerland February 4, 1947
2 Claims. (Cl. 197—27)



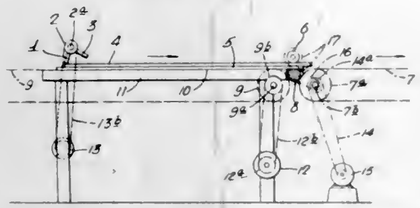
1. A typewriter comprising a plurality of type-levers, an inclined segment block having slots for guiding the type-levers, a plurality of key-levers arranged in four rows and each having an arm carrying a key and an outswinging arm, a plurality of links for directly connecting each outswinging arm of a key-lever without intermediate lever to the respective type-lever, and bearing means providing a guide slot and a fulcrum for each key lever, the fulcra being arranged in four parallel rows and situated in a common horizontal plane, and the guide slots being tilted with respect to the vertical plane, the angle of inclination of successive slots gradually increasing from the center towards both sides of the typewriter whereby successive key-levers are caused to swing in planes of gradually increased inclination towards the sides of the typewriter, the outswinging key-lever arms being bent off at a gradually increasing rate in the direction of the type-lever guiding slots from the center of the typewriter toward the two sides thereof, the different angles of bend of the outswinging key-lever arms depending on the inclination of the said segment block, the position of the respective planes of the said type-lever guiding slots, and the position of the respective planes of swing of the appurtenant key-levers, such that the ends of the outswinging key-lever arms move in the respective planes of the appurtenant type-lever guiding slots.

2,611,470
BREAD FEEDING MACHINE
Edward Albert Rudolph, Richmond Annex, Calif.
Application August 1, 1949, Serial No. 108,027
9 Claims. (Cl. 198—35)



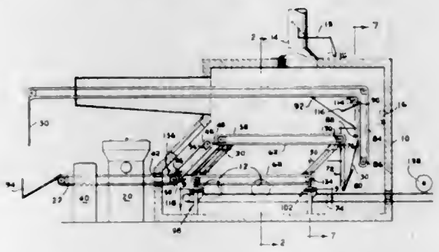
1. In a machine for feeding slices of bread from a sliced loaf of bread, a conveyor, means for intermittently advancing said conveyor a distance substantially equal to the thickness of a slice of bread, means for holding the slices of bread and restraining random forward movement of said slices, and a disengaging arm adapted to first strike and then move forwardly the furthermost slice and disengage said slice from said last mentioned means, said disengaging arm being arranged to contact said furthermost slice when said first mentioned means is not advancing the loaf.

2,611,471
MECHANISM FOR SEPARATING SHEETLIKE MATERIALS
Erik Johansson, Bertil Bergvall, and Uno Alfredsson, Jonkoping, Sweden, assignors to AB Svenska Flaktfabriken, Stockholm, Sweden
Application May 4, 1950, Serial No. 160,014
In Sweden July 12, 1949
2 Claims. (Cl. 198—35)



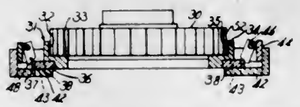
1. Sheet separating and feeding apparatus comprising a table structure having a plane top surface, a first conveyor assembly having the terminal end portion of its upper course extending substantially in the plane of said table top to deliver and deposit onto the table top a pair of superimposed sheets, means to stop said conveyor after depositing a pair of sheets on said table top, a second conveyor extending endwise from the terminal end of the first conveyor, a pair of vertically arranged nip rolls mounted intermediate the table and the adjacent end of the second conveyor, drive means for said second conveyor and the nip rolls, and a rotary member adjacent the receiving end of the table operable during idleness of the first conveyor to advance the upper sheet of said pair and engage the leading edge thereof between the nip rolls which operate to feed said upper sheet onto the second conveyor, said stop means for the first conveyor being operable to re-start the first conveyor after a preselected interval of time to cause the same to advance the bottom sheet and engage its leading edge with the nip rolls and feed said bottom sheet onto the second conveyor.

2,611,472
CONVEYER APPARATUS FOR CARRYING TRAYS
Scott H. Perky, Keeseville, N. Y.
Application May 6, 1947, Serial No. 746,296
5 Claims. (Cl. 198—102)



1. In an oven; conveyor means for supplying article carrying trays to the charging end of said oven in a substantially horizontal position; a second conveyor means at the charging end of said oven for tilting the leading edge of said trays upwardly in the direction of travel thereof; and other conveyor means positioned adjacent said second conveyor means and extending through said oven and including means for receiving the tilted trays in a substantially forward movement of the upper said leading edge thereof and for conveying them therethrough in their tilted position, said other conveyor means comprising upper and lower conveyor elements, said upper element extending further forwardly into said oven than the said lower element whereby said tilted trays are released by said lower element prior to release by said upper element thereby permitting said trays to swing to a substantially vertical position.

2,611,473
REMOVABLE CARRIER TRAY FOR GEAR HARDENING APPARATUS
Delos J. Reynolds, Chicago, Ill., assignor of one-half to International Harvester Company, Chicago, Ill., a corporation of New Jersey, and one-half to Westinghouse Electric Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 23, 1949, Serial No. 100,909
2 Claims. (Cl. 198—131)



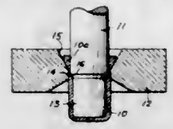
1. In an endless conveyor for movably supporting articles to a plurality of work stations, the combination comprising a plurality of trays inter-connected for conjoint movement whereby each tray is moved successively from one work position to another, each tray including a rectangular frame having a first and second pair of oppositely disposed side walls; means for supporting each tray for movement including a plurality of track wheels rotatably mounted on said first pair of side walls adapted to bear on an endless track; means to guide said trays including a pin projecting downwardly from one of said side walls adapted to extend into a groove in said endless track; means to support and center the article including a circular plate having a centrally located counterbored portion to form an annular shoulder to support the article and a vertical extending wall portion abutting the outer peripheral surface to prevent horizontal displacement of the article relative to said frame, and a circular ring member concentric with and attached to said circular plate, said circular ring member having a portion projecting radially outwardly and having a pair of diametrically disposed apertures therethrough; means for mounting said article supporting and centering means on said frame comprising an inwardly extending lug projecting from each of said second pair of side walls adapted to form a seat for said circular ring member, said lugs each having a vertical pin projecting therefrom adapted to extend into said apertures; means to prevent removal of said supporting and centering means from said frame in a first position and to allow removal in a second position comprising a pawl pivotally mounted on each of said second pair of side walls adjacent said lugs having a notch at one end adapted to abut said radially projecting portion of said circular ring member in said first position and to pivot away from said circular ring member in said second position, and a spring urging each pawl to said first position.

2,611,474
RAKE CLASSIFIER AND LUBRICATING SYSTEM THEREFOR
Charles H. Scott, Westport, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware
Application July 7, 1951, Serial No. 235,633
5 Claims. (Cl. 198—224)



1. In combination with a twin rake classifier having a tank providing an inclined deck, a pair of rake structures disposed side by side in said tank, each rake structure being adapted to perform a bodily cyclic movement comprising an upward solids-raking stroke and an elevated return stroke, an actuating mechanism for imparting said cylic movements to said rake structures comprising an inclined medial oscillatable shaft extending from the foot end to the head end of the tank, a pair of upper arm structures extending laterally in opposite directions from the shaft, a pair of lower arm structures extending laterally in opposite directions from the shaft and spaced downwardly along the shaft a distance from said upper arm structures, each upper and each lower arm structure carrying an oscillatable track member coextensive with said shaft and oscillatable about a longitudinal axis parallel to that of the oscillatable shaft, an upper and a lower track member at each side of the inclined shaft serving to reciprocably support respective upper and lower end portions of a respective rake structure, said mechanism further comprising a drive head at the upper end of the deck for oscillating the inclined shaft as well as for longitudinally reciprocating the rake structures in a manner of coordination whereby said cyclic movements are imparted to said rake structures; an oil circulating lubricating system for continuously supplying oil to said tracks and returning spent oil therefrom for redistribution to said tracks, comprising an oil reservoir at the head of the tank, a double-acting plunger pump having a plunger-holding pump cylinder associated with the reservoir at the head of the tank, plunger-actuating means effective between the upper end of the shaft and the pump to effect reciprocation of the plunger by and in time with the oscillations of the shaft, said plunger being effective at one side thereof to draw oil from the reservior and to deliver it to said track members to gravitate therethrough and as spent oil therefrom to a low point, a sump for the spent oil at said low point, said plunger being effective at the other side thereof to draw spent oil from said low point and to deliver it into said reservoir, and discharge conduit means for gravitationally passing oil from the reservoir to said track members, and suction conduit means for oil to pass from said low point to said pump.

2,611,475
CUP DRAWING APPARATUS
Raymond E. Slater, New Rochelle, N. Y., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application October 7, 1948, Serial No. 53,298
5 Claims. (Cl. 205—7)

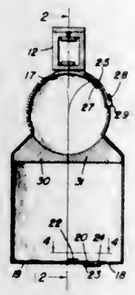


5. Apparatus for draw forming metallic cup-shaped workpieces and trimming such workpieces to a predetermined height comprising a draw die having a die land of generally cylindrical form and substantially the diameter of the finished workpiece, and a die entrance throat of substantially frusto-conical shape having a least diameter substantially equal to the inside diameter of said die land and leading into said land, said throat being defined by a line generatrix making an angle with the axis of the die land of between 23° and 32°; and a draw punch cooperating with said die and having a generally cylindrical nose portion of substantially the diameter of the inside of the finished workpiece and of substantially the same length as the depth of said finished workpiece, said nose portion terminating in an enlarged frusto-conical shoulder defined by a generatrix which intersects the axis of the punch at substantially the same angle as the angle between the line generating said die throat and the axis of the die land, whereby said frusto-conical shoulder and said frusto-conical die throat will be defined by substantially parallel surfaces, the radial clearance between the major diameter of said shoulder and the die land being between one-fourth and one-half of the radial clearance between the nose portion of the punch and the die land.

2,611,476
LUNCH BOX
Jacob W. Coney, Norwich, Conn.
Application August 23, 1948, Serial No. 45,745
1 Claim. (Cl. 206—4)

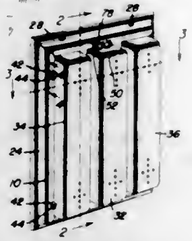
A lunch box comprising a pair of separable side sections forming a substantially rectangular shaped bottom chamber and a substantially cylin-

drical shaped horizontal top chamber positioned longitudinally one above the other, means locking the upper meeting edges of the top chamber to each other, and means locking the lower meeting edges of the bottom chamber to each other,



said locking means including tongues projecting outwardly beyond one meeting edge and received flush in openings in an opposed meeting edge, lugs bridging the openings, and lugs on the tongues lockably engaged behind the first-named lugs.

2,611,477
SANITARY TOOTHBRUSH HOLDER
William J. Keys, Waterloo, N. Y.
Application July 1, 1949, Serial No. 102,631
3 Claims. (Cl. 206—15.1)



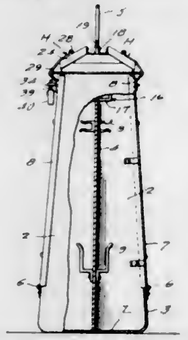
1. A sanitary toothbrush holder comprising a base member including a forward surface having a plurality of spaced parallel side by side grooves therein including first and second end grooves and a central groove, lugs integrally formed with the base member and disposed within the grooves for supporting toothbrushes, a plurality of elongated hollow closures for the grooves including first and second end closures and an intermediate closure, means pivotally securing one end of the intermediate closure to the forward surface of base member, and means pivotally securing one side of each of the end closures to the forward surface of the base member.

2,611,478
RAZOR BLADE MAGAZINE
Edward J. Gray, New York, N. Y.; Irene Carol Gray executrix of said Edward J. Gray, deceased
Application November 19, 1948, Serial No. 61,005
7 Claims. (Cl. 206—16)



1. As an article of manufacture, a magazine for a plurality of stacked resilient safety razor blades of the type having a longitudinal slot therein, said magazine comprising a substantially rectangular base having an upwardly inclined lip at each end thereof, a pair of upstanding spring tongues struck out from said base on each side of the center line thereof, said base having a longitudinal slot extending between each of said pairs of spring tongues, upstanding guide means on said base positioned between said pair of spring tongues and extending through the longitudinal slot therebetween, and adapted to coact with the longitudinal slots in such blades to position the latter on said base in interleaved relation with the outer ends of alternate blades protruding from opposite ends of such stack, a substantially rectangular cover member having a downwardly inclined lip portion at each end thereof, means to affix said cover member to said base with the lip portions on said cover spaced from the lip portions on said base whereby when said magazine is loaded said lip portions on said cover will depress the associated ends of such blades to bow the latter over said spring tongues and raise the free ends of such blades against the mid portion of said cover member and ejector means movable longitudinally with respect to said cover member, alternately in opposite directions with each stroke, against the end of the topmost blade nearest the mid portion of said cover member to eject such topmost blade from between the spaced lip portions at the end of the magazine toward which said ejector means is moving.

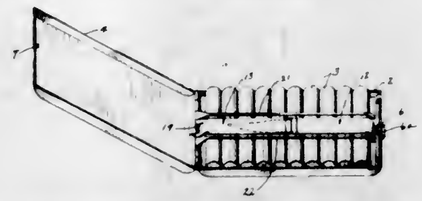
2,611,479
TOOL CHEST
Abe H. Oliver, Azusa, Calif.
Application April 6, 1950, Serial No. 154,271
3 Claims. (Cl. 206—16)



1. A tool chest comprising a body having bottom, end and side walls, said side walls extending a relatively short distance only upward from the bottom wall, outwardly and downwardly opening closure members for the open side portions of the body, a pair of trays within the top portion of the body, a lid for closing the top of each of the trays, and means common to the closure members and lids for releasably holding the same in closed position.

2,611,480
COMBINATION CIGARETTE CASE AND IMPLEMENT
Michael Lavanish, Cleveland, Ohio
Application September 20, 1948, Serial No. 50,080
5 Claims. (Cl. 206—38)

5. A combination cigarette case and implement, comprising, in combination, a cigarette receptacle, a cigarette holding device comprising members, each having a portion adapted to engage cigarettes in said receptacle, one of said members comprising a sheath unit, another of said members comprising an implement unit detachably cooperable therewith, and means movably connecting the holding device with the receptacle, combined with a cover for said recep-



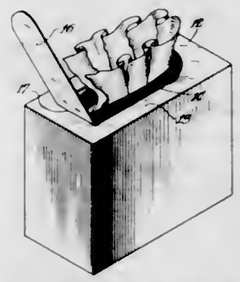
tacle, hinge means for hingably connecting said cover and receptacle, the sheath unit being associated with said hinge means for hinge movement of said device relative to said receptacle, and a holding finger associated with said hinge means for hinge movement of said finger relative to said receptacle, said finger normally positioned in parallel relationship to said device for holding cigarettes from displacement when the implement unit is displaced from the sheath unit.

2,611,481
INSPECTION MEANS FOR SEALED PACKAGES
James A. Sargeant, Fort Belvoir, and Jack R. Wade, Jr., Alexandria, Va.
Application June 9, 1950, Serial No. 167,242
3 Claims. (Cl. 206—46)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



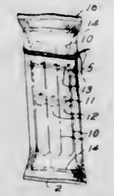
1. Inspection apparatus for viewing the interior of hermetically sealed packages including a hermetically sealed water- and vapor-proof barrier material and provided with an observation window in the said material, which comprises, in combination, an externally threaded, tubular cylindrical retaining member inserted in the said observation window and having an annular backing flange thereon adapted to receive the periphery of the said window, yieldable means on the retaining member for hermetically sealing the periphery of the said window against the backing flange, locking means received on the said retaining member for locking the sealing means against the periphery of the said window in hermetically sealed relation therewith, a viewing member including a transparent cover also mounted on the said tubular retaining member in alignment with the window and approximately coextensive in area therewith and hermetically sealed against the locking means and adapted to permit continuous visual inspection of the interior of the hermetically sealed package through the said window, and means carried by the said tubular retaining member for mounting in the said package adjacent to the said window and in line of vision with the said transparent cover, continuously indicating means for indicating to an observer atmospheric conditions within the said container while enabling substantially uninterrupted viewing of the interior and contents of the container.

2,611,482
DISPENSING PACKAGE FOR INTERFOLDED SHEET MATERIAL
Howard Nelson, Neenah, Wis., assignor to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware
Application September 16, 1950, Serial No. 185,182
3 Claims. (Cl. 206—57)



1. A dispensing package of sheet material comprising a stack of interfolded sheets, said stack being doubled on itself about an axis paralleling the planes of the folds of the sheets and extending transversely of the fold formed edges thereof, a fold of one of said sheets at a face of the stack being in extended relation to the stack and doubled on itself in conformation with the doubling of the stack as aforesaid, and a container for said stack having a wall portion overlying a side of the folded stack formed by the fold-formed edges of the sheets, said wall portion being provided with a dispensing opening through which said extended fold is readily accessible for facilitating withdrawal of said face sheet from the container substantially as described.

2,611,483
FLEXIBLE SUTURE TUBE PACKAGE WITH EMBEDDED TEAR STRING
Charles C. Adams, New York, N. Y., assignor to Davis & Geck, Inc., Brooklyn, N. Y., a corporation of New York
Application January 4, 1950, Serial No. 136,806
1 Claim. (Cl. 206—63.3)



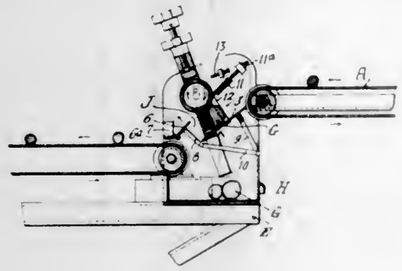
1. In combination, a sealed suture tube within an inner sealed, flexible, translucent envelope of a thermoplastic, heat sealable resin composition, a similar outer envelope enclosing the inner envelope, sterilizing liquid in each envelope, a strip of thermoplastic, heat sealable resin composition sealed to the outer envelope around its outer pe-

riphery, and a tear string between the outer envelope and the strip and embedded in each, the ends of the tear string being free, whereby pulling said tear string causes it to tear through said strip leaving the outer envelope still sealed though with a weakened portion in its wall.

2,611,484
ARTICLE SORTING DEVICE

Hilon W. Sawyer, Nutley, and Otto Schellenberger, Paterson, N. J., assignors to Thomson Machine Company, Belleville, N. J., a corporation of New Jersey

Application January 18, 1951, Serial No. 206,662
6 Claims. (Cl. 209—121)



1. The combination of a support, a table comprising at least two sections normaly disposed in edge to edge relation in a common plane and relatively movably mounted on said support so that the adjacent edge portions thereof can move simultaneously in opposite directions out of said plane to form an opening between them for ejection of certain articles from the table, mechanism holding said table sections in said common plane so that articles of predetermined size may roll completely across the table in a direction transverse of said edges of the sections and providing for said relative movement of said sections upon movement of larger articles onto said table to cause ejection of said larger articles through said opening between said sections, a roller journaled on said support parallel to and above said table with its periphery spaced from the table a distance greater and less than the diameters of the first-mentioned articles and said larger articles respectively, and means for rotating said roller so that the larger articles will be engaged by the periphery of the roller and projected thereby through said discharge opening.

2,611,485
FROTHING AGENTS FOR FLOTATION OF ORES

Elmer C. Tveter, Walnut Creek, Calif., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

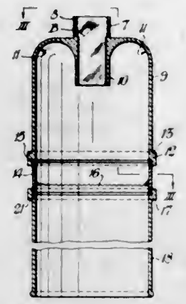
No Drawing. Application April 21, 1949, Serial No. 88,891
5 Claims. (Cl. 209—166)

1. In the concentration of ores by froth flotation, the method which comprises subjecting an aqueous pulp of the ore to froth flotation in the presence of a collector and of a frother composed essentially of a compound from the group consisting of the alkyl mono-ethers, having from one to four carbon atoms in the alkyl group, and phenyl monoethers of propylene glycol, the polypropylene glycols and mixtures thereof.

2,611,486
APPARATUS FOR CLASSIFYING GRANULAR SUBSTANCES

Maurice Varcoe, Par Harbour, England, assignor to Cornwall Mills Limited, Par Harbour, England, a British company

Application May 13, 1949, Serial No. 93,002
In Great Britain May 14, 1948
3 Claims. (Cl. 209—237)

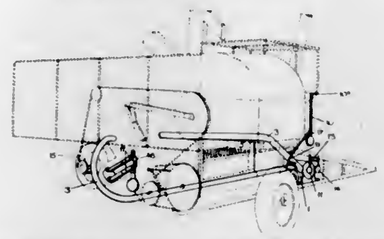


1. Apparatus for classifying granular substances, comprising a chamber having an open mouth at its lower end, means for supporting a sieve gauze over said mouth, a port disposed at the upper end of said chamber and arranged for connection to a supply of compressed air, a pipe-like extension from said port through which the compressed air entering the port must pass, said pipe-like extension being directed towards the mouth of the chamber in order to leave an upper zone of the chamber behind and above the outlet end of said pipe-like extension, and semi-toroidal internal walls connecting the upper end of the internal walls of the chamber with the external walls of said pipe-like extension, said semi-toroidal walls lying in said upper zone of the chamber whereby a vortex is produced in the chamber when air is forced into the inlet port.

2,611,487
BLOWER AND AIR CONDUITS FOR COMBINES

Henry John Stevenson, Weston, via Oamaru, New Zealand

Application August 28, 1947, Serial No. 771,007
In New Zealand May 13, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 13, 1966
4 Claims. (Cl. 209—261)

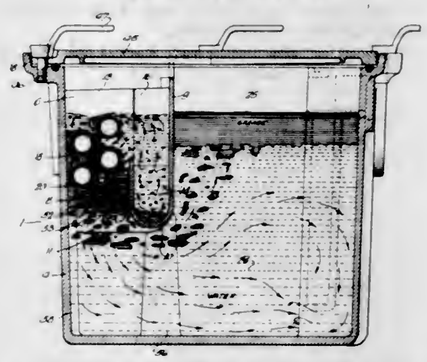


1. In a blower system for a combine mounted on a wheeled frame and having at least one reciprocable cleaning riddle, air supply conduits disposed along the sides of the cleaning riddle at right angles to the longitudinal axis of the wheeled frame, valves positioned in said air supply conduits for controlling the passage of air therethrough, a pendulum mounted on said wheeled frame for oscillation parallel to the longitudinal axis of the latter, and links connecting said pendulum to said valves for opening and closing the latter to control the flow of air through said conduits in accordance with the tilting of the frame whereby the air blast from the respective conduit opposes the travel by gravity of the grain over the cleaning riddle.

2,611,488
GREASE TRAP

Stephen F. Resan, Elgin, Ill., assignor to Woodruff & Edwards, Inc., Elgin, Ill., a corporation of Illinois

Application May 18, 1946, Serial No. 670,659
17 Claims. (Cl. 210—43)



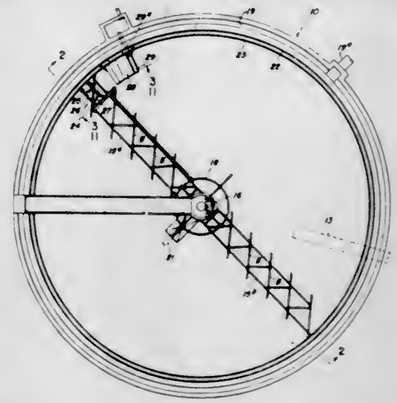
9. A hydraulic filtering device for dispersions of liquid-liquid or liquid-solid materials having different surface tensions comprising a chambered body provided with an inlet and an outlet, means including a wall structure for reducing the flow of the dispersion progressively between said inlet and said outlet, a plurality of elements having surfaces with a selective surface tension separating effect, means for mounting said elements in grouped relation but spaced from each other in the path of reduced flow between said inlet and said outlet to establish a substantial accumulation of one of the components of the dispersion between and about said surfaces of said elements to form a hydraulic filtering bed, said filtering bed including said elements and said accumulation.

2,611,489
SKIMMER MECHANISM FOR CLARIFIERS

Charles H. Scott, Westport, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware

Application February 21, 1951, Serial No. 212,040
5 Claims. (Cl. 210—55)

1. In a liquid treatment tank for clarifying liquid being fed thereto, having peripheral overflow means, a scum baffle concentric with said overflow means, sediment outlet means, sediment conveying means for conveying sediment over the tank bottom to said outlet means, a radially extending scum discharge trough, a scum skimming device comprising a scum collecting skimmer blade extending radially with respect to the tank, and blade supporting means rotatable with said raking means for rendering the blade capable of compound yieldability longitudinally and transversely, said blade having yieldable endwise pressure contact with the baffle for scraping the same free of scum matter adhering thereto, characterized by the fact that the blade supporting means comprise a support rotating with the raking means, a pair of non-parallel links substantially horizontally disposed with the outer ends of said links being spaced from one another farther apart than the inner ends, a compound bearing member carried by said support for the inner end of each link whereby the link is swingable about a vertical axis as well as about a horizontal axis, said blade having articulated connection with the

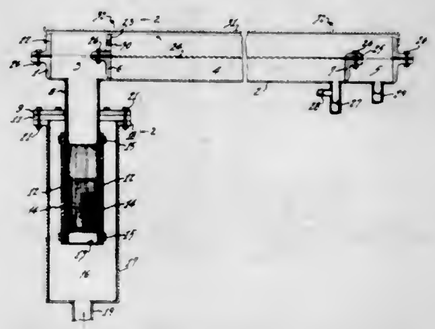


outer end of each link whereby each link may yield angularly horizontally as well as vertically to obstacles encountered in the path of the blade while maintaining the blade in scum skimming position, and adustable stop means upon said support for determining the lower limit position of said links.

2,611,490
APPARATUS FOR SEPARATING IMMISCIBLE LIQUIDS

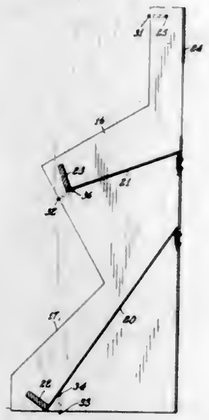
John Warren Robinson, Merchantville, N. J., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania

Application September 30, 1947, Serial No. 777,043
6 Claims. (Cl. 210—150)



1. Apparatus for separating a plurality of immiscible liquids comprising a tray, a plurality of partitions to separate said tray into a plurality of sections, a membrane impervious to one of said liquids and pervious to the other, means to attach said membrane to said partitions so that an intermediate section is covered thereby, an inlet to a section adjacent said intermediate section, a coalescing membrane over said inlet, and outlets for said intermediate section and the section adjacent thereto on the side opposite the section having the inlet, whereby the mixture of liquids will be coalesced as they flow through said inlet and will be separated as they flow across said membrane.

2,611,491
COLLAPSIBLE DISPLAY RACK FOR CIGAR BOXES AND SIMILAR ITEMS
Donald Lewis, Dallas, Tex., assignor to I. Lewis Cigar Manufacturing Company, Newark, N. J., a corporation of New Jersey
Application August 11, 1950, Serial No. 178,769
2 Claims. (Cl. 211—73)



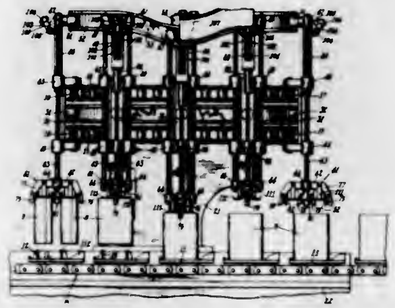
1. A rack for the display of cigar boxes and similar containers comprising a collapsible cut out of cardboard or other suitable material having a back portion and hinged side wing portions at either side of the back portion, a plurality of trays for supporting cigar boxes in display fashion transversely hinged to the back portion of the cut out and located one above the other in spaced relation, the side wings being cut away to afford a clear view of the container contents, cross members connected at the outer extremities of the wings for holding the wings closely adjacent to the sides of the trays, means attached to the side wings for supporting the trays at an angular position when said wings are held closely adjacent thereto by said cross members, the cross members being located above the hinge point of each box supporting tray thereby providing a support for holding the box top in an elevated position to display cigars or other articles contained within the box.

2,611,492
HANGER IN STRIP FORM
Ivor B. Watts, Nutley, N. J.
Application October 19, 1948, Serial No. 55,339
1 Claim. (Cl. 211—113)



In a device for supporting suspended articles, an elongated supporting strip of molded material having means for attaching it to the under side of a shelf and formed with a hollow recess open at the top and extending longitudinally of said strip and exposing the said underside of said shelf, a relatively narrow slot opening downward from said recess, suspending members having shank portions adapted to slide in said slot and enlarged rounded end portions retained in said hollow recess by engagement with the walls thereof adjacent said slot, a series of evenly spaced rounded sockets formed in the bottom of said recess to receive said enlarged ends of said suspending members, an opening in said strip between the ends thereof formed to permit insertion of said enlarged end portions of said suspending members into said hollow recess and removal of said enlarged end portions therefrom, and shoulder members on the wall positioned between said opening and said series of sockets formed to selectively pass said shaped enlarged ends.

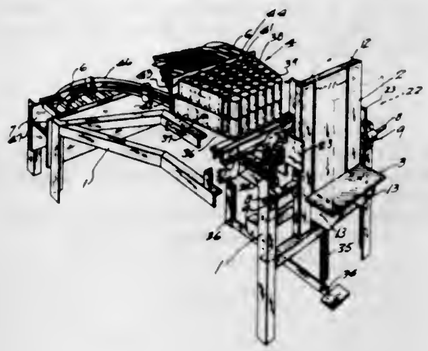
2,611,493
DEVICE FOR TRANSFERRING ARTICLES FROM ONE CONVEYER TO ANOTHER
Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 26, 1947, Serial No. 750,390
7 Claims. (Cl. 214—1)



1. A transfer device for transferring articles such as container bodies from one conveyor to another, comprising in combination a pair of spaced and parallel conveyors operating in time with each other, a plurality of spaced cradles carried on said conveyors and having lugs for retaining container bodies thereon in an upright position, a transfer device bracket disposed between said conveyors, a pair of horizontally disposed and vertically spaced endless transfer chains supported on said bracket, an endless track located between said transfer chains, a plurality of head brackets connecting said chains at spaced intervals and carrying rollers operating in said track for supporting and maintaining said chains in a horizontal plane, a transfer head carried on each of said head brackets, and gripper means mounted on said heads for picking up a body from a cradle on one of said conveyors and for carrying the gripped body across the space between the conveyors and for depositing the body in a cradle of the other of said conveyors.

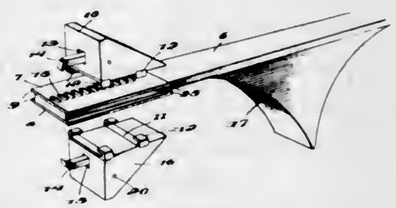
2,611,494
UNCASER DEVICE
Samuel Ciraolo, Modesto, Calif.
Application December 12, 1949, Serial No. 132,535
9 Claims. (Cl. 214—1.1)

3. In a decasing apparatus, a frame, a supporting surface on the frame, a plurality of spaced generally vertical stack separator elements on said supporting surface, the spacing between adjacent separator elements corresponding substantially to the width of the cans in a stack of cans in a case, a table pivoted on the frame, the pivot of the table being spaced from an end of the table at a distance substantially equal to the distance between the pivot and said separator elements for locating said end of the table in the immediate proximity of said supporting surface for direct insertion of the decased cans from the table into the spaces between said elements, a transverse follower on the other end of the table for supporting a case thereon in the upright position of the table, said follower being adapted for movement along said table for pushing the stacks of cans off said table and into said spaces, and



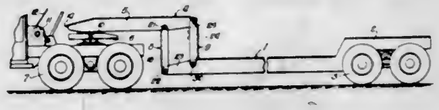
guides extended from said separator elements to guide cans pushed out of said spaces away from said elements in series, and a controllable aligning device on said frame adjacent the sides of said table to align the stack of cans decased on said table with said spaces between said stack separator elements.

2,611,495
BARREL STACKING DEVICE
James Critz Weaver, Richmond, Va.
Application April 27, 1951, Serial No. 223,358
5 Claims. (Cl. 214—10.5)



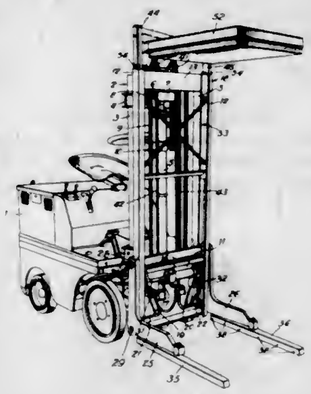
1. A stacking apparatus for maintaining superposed upper and lower tiers of barrels in a transverse row on a truck provided with abutment rails comprising, apertured plates seated on the truck bed in contact with the rails, chocks slidably mounted on the plates and having pawls for engagement therewith to hold the chocks against the lower tier barrels, a board extending transversely of the truck between the upper and lower tiers of barrels, a centrally located spreader depending from the board between adjacent barrels of the lower tier to hold them slightly apart, apertured plates on the upper and lower faces of the board at both ends thereof and having marginal portions projecting beyond the side edges of the board, upper and lower chocks having straps with end portions slidably securing them to said marginal portions, and pawls on said upper and lower chocks for engagement with the apertured plates on the board to hold the upper tier barrels against each other and the lower tier barrels against the spreader.

2,611,496
FOLDABLE TRAILER HITCH
William E. Martin, Kewanee, Ill.
Application July 15, 1948, Serial No. 38,840
13 Claims. (Cl. 214—85)



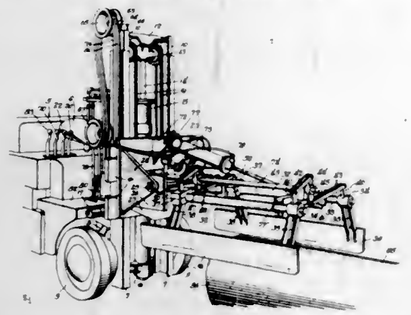
1. A foldable hitch for a machinery hauling trailer comprising a tongue, and link mechanisms connecting said trailer and the tongue to control the movements of the tongue relative to the trailer, said link mechanisms comprising pivotal means to normally hold said tongue in a plane disposed parallel to the plane of the trailer while in transportable position and during the lowering of the tongue toward the ground, and lost motion means interposed between said link mechanisms and said tongue to allow the latter to assume an out of parallel relationship with respect to said trailer when the tongue is lowered to the ground, said lost motion means including parts of said tongue having horizontally disposed slots formed therein for the reception of certain of the pivotal means carried by said link mechanisms.

2,611,497
MATERIAL HANDLING DEVICE
E. Ryan Backofen, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application August 23, 1947, Serial No. 770,318
8 Claims. (Cl. 214—113)



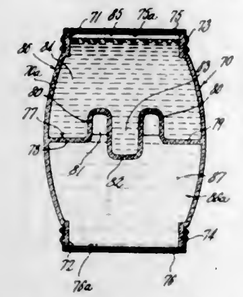
1. In a lifting device, for attachment to an industrial truck or like vehicle having hydraulic lift means, a frame, a pair of forwardly extending laterally spaced horizontal clamping arms mounted thereon, hydraulically actuated extendible means horizontally floatingly mounted in transverse alinement between said clamping arms, connecting means operatively connecting said hydraulic means to the hydraulic system of said truck, a pair of pivoted levers mounted on said frame, the upper ends of such levers being pivotally connected to opposite ends of said extensible means and means pivotally connecting the lower ends of said levers to said clamping arms.

2,611,498
ROLL GRIPPING AND UPENDING TRUCK
J. Charles Broersma, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application April 17, 1947, Serial No. 741,968
20 Claims. (Cl. 214—115)



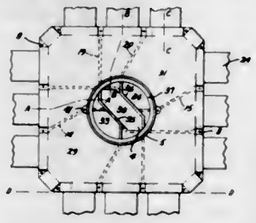
1. Means for adapting an industrial truck having a vertical mast at one end thereof to the handling of rolls or baled material comprising a load supporting carriage vertically movable in said mast, a load engaging mechanism having a transverse pivotal mounting on said carriage and projecting forwardly thereof, said mechanism including a transverse base plate, shaft members projecting normally to said base plate longitudinally of said truck, parallel arm members carried by said shaft members and interconnected for movement toward or away from each other, said arm members extending longitudinally of said truck, means carried by said mechanism for actuating said arm members to clamp material therebetween and means for rotating said mechanism with its load about said pivotal mounting into a vertical position, said base plate serving as a load supporting bottom member when said mechanism is in vertical position.

2,611,499
DOUBLE CONTAINER
Martin E. Mayer, New York, N. Y., assignor to Joseph Solomon, New York, N. Y.
Application August 25, 1950, Serial No. 181,552
9 Claims. (Cl. 215—6)



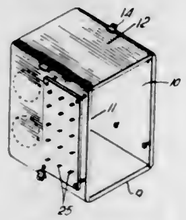
1. A transparent receptacle for a plurality of substances; comprising a partition extending in substantially horizontal direction across the interior of said receptacle dividing said receptacle into two compartments, said partition including at least two recesses, said recesses being directed in opposed relationship to each other and disposed to extend approximately in the center of said partition, a closable discharge end for each compartment at either end of said receptacle, and a closure having an inner top surface and adapted to be applied to each discharge end, the respective recess communicating with the respective discharge end of either of said compartments being approximately of such dimension as to receive a volume of air substantially equal to and present within the space defined by the surface of the respective substance and said inner top surface of the respective closure of the respective compartment in a predetermined position of said receptacle.

2,611,500
CONDUIT JUNCTION BOX
John H. Martin, Toronto, Ontario, Canada, assignor to General Electric Company, a corporation of New York
Application July 5, 1950, Serial No. 172,164
In Canada December 23, 1949
3 Claims. (Cl. 220—3.4)



1. A conduit junction box comprising an upper casting, a matching lower casting and an inner casting, said upper casting having a circular hand hole centrally positioned in its upper surface to provide access to the interior of said box, said inner casting comprising a plurality of vertical walls and horizontal walls to divide the interior of said conduit junction box into a plurality of crossing channels arranged in two planes, said horizontal walls being constructed to interconnect each of said channels in one level respectively with one channel only in the other level thereby to provide a plurality of vertical shafts, the projection of said vertical walls on said hand hole forming a pattern wherein a major portion of said vertical walls lie in parallel chordal planes that divide a diameter perpendicular to said planes into substantially equal parts.

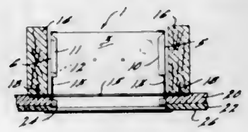
2,611,501
WALL BOX
Louis D. Bermann, Ossining, N. Y.
Application September 8, 1949, Serial No. 114,609
2 Claims. (Cl. 220—3.5)



2. A wall box comprising an enclosure open at one end surrounded by four side walls, rigid plates movably disposed outside opposed walls of said enclosure, polygonally-headed screws expansibly connecting said plates with their respective walls and being threaded in the side wall

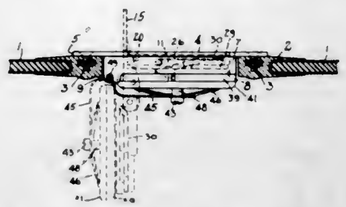
substantially perpendicular thereto and rotatably gripped by the plate, and gripping projections on the outer surface of said plates.

2,611,502
APERTURED EARS ON RECESSED LAMP FOR RECEIVING SUPPORTING RODS
Ivan M. Kirlin, Detroit, Mich., assignor to The Kirlin Company, Detroit, Mich., a partnership
Application January 25, 1950, Serial No. 140,419
3 Claims. (Cl. 220—3.92)



3. A lighting fixture of the recessed type including, in combination, a box made of sheet material having four side walls and an end wall, a side wall at each corner having spaced flange portions overlapping the adjacent portion of the other side wall of each corner and secured thereto, one of said side walls of each corner having a tab located between said flange portions which may be bent to extend in alignment with either side wall of the corner, said tabs having apertures therethrough which are spaced from the corner at which the tab is located.

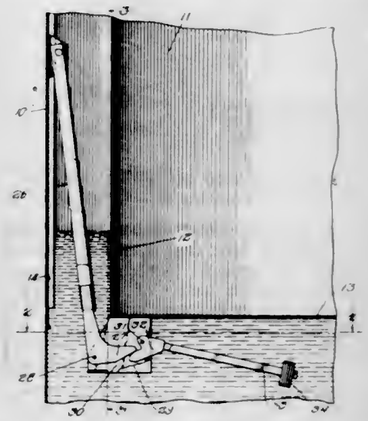
2,611,503
FILLER CAP FOR GASOLINE TANKS
Owen H. Griswold, Ridgewood, N. J.
Application February 18, 1949, Serial No. 77,239
13 Claims. (Cl. 220—25)



1. In a filler cap for fuel receptacles, an adaptor having a filler opening, a closure for said opening, said closure being pivotally secured to said adaptor, and a closure operator, said closure operator including a handle, a member pivotally secured to said handle, and a slider having a lost-motion connection with said member and slidable transversely of said closure, and means in said adaptor connected to said slider for camming said closure to closed position.

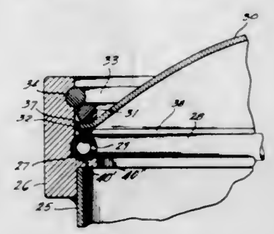
2,611,504
HANGER FOR FLOATING ROOFS
Wilbur E. Busse and Clifford M. Orr, Chicago, Ill., assignors to Chicago Bridge & Iron Company, a corporation of Illinois
Application June 3, 1947, Serial No. 752,018
11 Claims. (Cl. 220—26)

1. In a liquid storage tank having a floating roof, the roof having a lower portion normally immersed in the liquid stored in the tank and one or more shoes adapted to slidably contact the side walls of the tank, means for supporting the shoes including a hanger having one end connected to the upper portion of the shoe and having the other end pivotally connected to the lower portion of the roof, a separate gravity operated weighted lever arm having one end free and having its other end pivoted to the lower portion of the roof and camming means interconnecting the roof end of the hanger and the pivoted end of the lever for elevating the lever



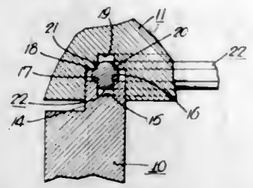
arm from a position hanging freely from its point of pivotal connection to the roof, said camming means transmitting the force exerted by the lever in its elevated position into outward pressure of the hanger against the shoe and increasing the force with decreasing distance between the roof and tank side wall.

2,611,505
PRESSURE TANK COVER CONSTRUCTION
Byron R. Winborn, Jr., and Daniel E. Beduhn, Manitowoc, Wis., assignors to Manitowoc Shipbuilding Company, Manitowoc, Wis.
Application March 26, 1948, Serial No. 17,267
2 Claims. (Cl. 220—46)



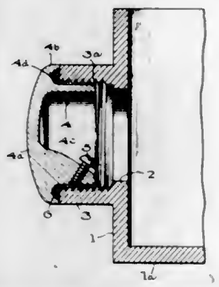
1. In a device of the class described, a cylindrical pressure tank having an open top and having an internally located annular groove adjacent its top edge, a circular cover for said tank, a continuous ring circular in cross-section located on the upper side of said cover adjacent the marginal edge of the cover, said tank having a shoulder, a gasket clamped between the marginal edge of said cover and said shoulder, and a split resilient locking ring wholly independent of said continuous ring and seated within said groove and engaging said first mentioned ring, the line of contact between the said rings extending through the center of both rings and outwardly at an angle to the axis of said tank, whereby internal pressure in said tank will increase the security of engagement of said locking ring within said groove.

2,611,506
SEALING STRUCTURE OF THE GASKET TYPE
Charles L. Scheer, Haddonfield, N. J., assignor to Foote Mineral Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 28, 1949, Serial No. 101,853
3 Claims. (Cl. 220—46)



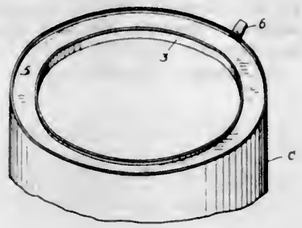
2. In a gasket-type chamber-sealing structure, a chamber-forming member having an annular wall projection with an annular recess therein forming a pair of concentric circular edges, a closure member having an annular recess adapted to receive said annular projection, said closure member also having a narrower annular recess forming within its first recess a pair of concentric circular edges in opposed relation respectively to the first-mentioned edges, an annular gasket element of circular cross-section disposed between the said pairs of edges and engaged thereby, the circular cross-sectional area of said element being of greater diametrical dimension than the spacing of the edges of each said pair of edges, and means for applying forces to said members effective to produce biting or shearing action of said pairs of edges upon said gasket element.

2,611,507
REMOVABLE PLUG FOR OPENINGS IN METER CASINGS
Albert J. Wayman, East Palestine, Ohio
Application January 7, 1952, Serial No. 265,311
7 Claims. (Cl. 220—55)



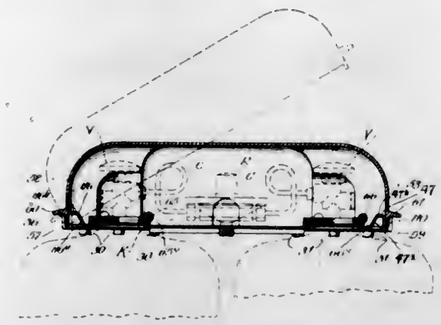
6. In combination, a casing adapted to house an electrical device and having an opening formed therein, an internally threaded sleeve surrounding said opening and formed integrally with said casing, a closure for said opening comprising a plug having a smooth cylindrical shank portion extending into said sleeve and an enlarged head portion on the outer end of said shank portion, said head portion having an annular flange presenting a flat annular face adapted to seat upon the flat outer end face of said sleeve, the inner end of said shank having a cavity formed therein, and a locking screw threaded in a hole extending from said cavity to the outside of said shank on an axis arranged at an acute angle to the plane of said annular flange

2,611,508
GUARD FOR GROOVE-TOP CONTAINERS
John W. Brown, South Euclid, Ohio, assignor to The John P. Cochran Company, Cleveland, Ohio, a corporation of Ohio
Application August 3, 1948, Serial No. 42,187
1 Claim. (Cl. 220—85)



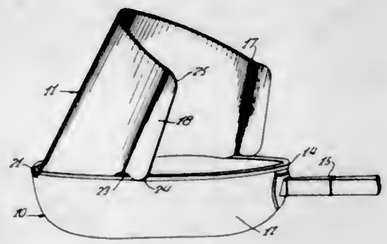
A container having in its top an opening and a surrounding annular groove to receive a lid-flange, and means for filling the annular groove and exposing the adjacent inner and outer margins of the container top and its opening, comprising a flange-substituting annular narrow flat sheet filler fitted in the groove and frictionally engaging against the inner wall of the groove by its inner periphery and frictionally engaging against the outer wall of the groove by its outer periphery, and a lifting tab on said annular filler.

2,611,509
HOOD FOR TANKS AND THE LIKE
Albert H. Fine, Oak Park, Ill.
Application February 23, 1949, Serial No. 77,820
5 Claims. (Cl. 220—85)



1. A hood of the type adapted to be placed over a pair of fluid containers comprising, in combination; a base plate and a cover member, said base plate being provided with at least one vertical lug at each end thereof, an ear on said base plate adjacent the opposite ends thereof in association with each of said lugs and positioned rearwardly thereof, each of said ears having a vertical leg projecting upwardly from said plate and a horizontal leg, said horizontal legs extending from said vertical legs in the direction of the ends of said plate and terminating short of their associated lugs to thereby define vertical passages and small lateral recesses therewith; said cover member comprising end sections projecting downwardly with respect to said base plate, the distance between said end sections being slightly less than the distance between said lugs but slightly greater than the distance between the terminal points of the horizontal leg portions of said ears whereby said end sections of said cover member may be freely disposed within and withdrawn from said base plate passages; an ear on each of said end sections positioned above the terminal points thereof and thereby defining a lowermost intermediate extension on each of said end sections, said intermediate extensions being of a length approximating substantially the length of said lugs whereby said end sections may be disposed within said vertical passages to an extent determined by the seating of said cover member ears on said base plate lugs; each of the horizontal legs on said base plate ear being of a length sufficient to be engageable with the corresponding intermediate extension when the latter is rotated within its lateral recess as a result of pivoting said cover member at one end about the fulcrum established between the cover ear and base plate lug.

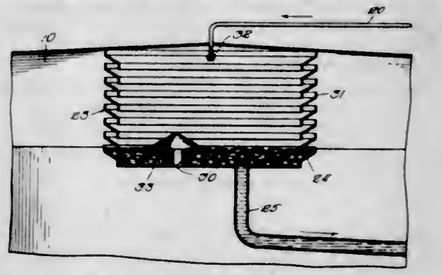
2,611,510
GREASE SHIELD FOR SKILLETS
Harry H. Willits, Louisville, Ky.
Application August 12, 1949, Serial No. 109,905
1 Claim. (Cl. 220—85)



A skillet grease shield comprising a one-piece body of sheet metal arcuately curved in one direction on a radius of curvature slightly less than the radius of curvature of the rim of a skillet on which the shield is to be used, said body having a length sufficient to include an angle of approximately 180-degrees and having spaced-apart means along one edge for mounting it on the rim of a skillet so that it is disposed almost entirely within the skillet rim, said one edge being arcuately curved so that said shield will incline upwardly and inwardly from a skillet rim on which it is mounted, and said means for mounting said shield on the rim of a skillet comprising a pair of elongated tabs of U-shaped cross-section extending from the convex side of said shield at said one edge of the latter and disposed at opposite sides of the mid-length location of said one edge, and outwardly-deflected wings disposed one at each end of said body and recessed at their ends adjacent said one edge of said body to receive a skillet rim.

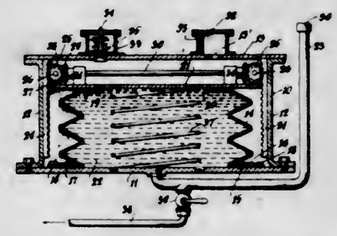
2,611,511
METHOD OF PREVENTING EVAPORATION LOSS AND APPARATUS THEREFOR
Ivan L. Wissmiller, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois
Application November 12, 1949, Serial No. 126,775
7 Claims. (Cl. 220—85)

1. In the storage of volatile hydrocarbon liquids in a vessel having a fixed capacity greater than the volume of the liquid, the steps of supplying a soluble, non-condensible gas to the vapor space within said container when the pressure therein is less than atmospheric and selectively dissolving



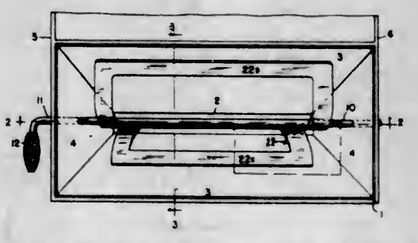
said gas in a selective liquid solvent when the pressure is greater than atmospheric.

2,611,512
EXPLOSION-PROOF GASOLINE TANK
Alexander Fashay, Long Island City, N. Y., assignor of seven and one-half per cent to Leo C. Krasinski, New York, N. Y.
Application October 3, 1947, Serial No. 777,766
5 Claims. (Cl. 220—88)



1. An explosive-proof fuel container comprising, in combination, an elastic envelope with a rigid bottom, a rigid top, and resilient side walls for containing liquid fuel isolated from air, said bottom having an opening for a fuel inlet pipe, a fuel outlet pipe connected to said bottom, and synchronized meshing means cooperating with said top and container for maintaining said top substantially parallel with said bottom during expansion and contraction of said envelope.

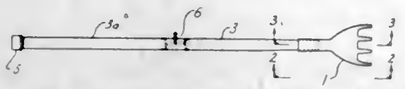
2,611,513
OUTLET CONTROL AND AGITATOR FOR BINS
William J. Kilpatrick, Detroit, Mich.
Application July 29, 1950, Serial No. 176,663
6 Claims. (Cl. 222—181)



1. In an outlet control for bins, the combination with a bin having an elongated bottom outlet, of an elongated closure for the outlet disposed beneath the bin, a pair of supporting arms respectively secured to the respective closure ends and upwardly extending from such ends in an exterior relation to the bin, means coaxially

pivoting the upper ends of said arms to afford lateral swinging of the closure for positioning said closure alternatively below or laterally of the outlet, a spring urging the closure toward its position below the outlet and means subjecting the closure to such spring, a shaft extending through the bin, a pair of cams fixed on the shaft and effective on the arms through rotation of the shaft to swing the closure to one side of the outlet, and an actuating element on one end of said shaft.

2,611,514
CULTIVATING IMPLEMENT WITH FERTILIZER DISPENSER IN HANDLE
William F. Peyton, Pittsburgh, Pa.
Application January 31, 1947, Serial No. 725,527
1 Claim. (Cl. 222—191)



In a tilling device having a hollow handle, a plurality of perforated partitions in said handle, a valve disposed between said partitions, said valve having a wall dividing the space between the partitions, and said partitions having openings communicating with opposite sides of the valve wall so that one-half of the space between the partition members is in communication with the openings in the upper partition while the other half communicates with the openings in the bottom partition, whereby the material in the handle above the partitions is alternately measured off in predetermined volumes between said partitions and discharged through the hollow handle to the tilling implement.

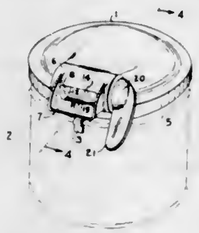
2,611,515
RESILIENT CLOSURE FOR CONTAINERS
William F. Smith, Wilmington, Del.
Application July 5, 1946, Serial No. 681,525
2 Claims. (Cl. 222—213)



1. A closure for containers comprising a resilient body member, a longitudinal valve slit in the top of the body member abutted by a transverse slit on each end, and said body member having two sidewalls with two opposed wedge-shaped reinforcing members extending inwardly from the top of the body member downwardly along its respective sidewall and each with the apex of the wedge located adjacent its respective side of the valve slit, said opposed wedge-shaped reinforcing members being in spaced relationship to each other whereby the lower portion of each of the wedge-shaped reinforcing members is capable of contacting the other upon squeezing said sidewalls to open the valve slit.

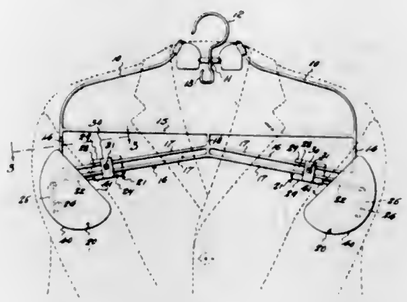
2,611,516
DISPENSING COVER
Edward Beldner, Brooklyn, N. Y.
Application November 8, 1949, Serial No. 126,088
3 Claims. (Cl. 222—339)

1. In combination with a receptacle of the class described, a dispensing cover adapted to fit said receptacle in air-tight relationship, clamps to secure the cover to the receptacle, said cover having a substantially hemispherical body section extending into an enlarged cylindrical housing with a circular opening at one end thereof and a transverse slot in its anterior circular surface, an integral shelf section projecting from below the slot, a hollow cylinder rotatably secured within said housing, said cylinder being pro-



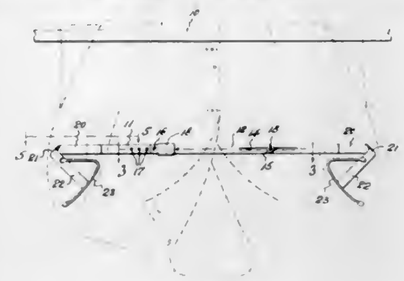
vided with end walls and a circular wall having a transverse slot substantially identical in size and shape with the slot in the housing, means to rotate said cylinder to bring the slots in registry for dispensing the predetermined contents of the cylinder, and means for returning the cylinder to original position in order to take the slots out of registry, seal off the slot in the housing and allow refilling of the cylinder from the contents of the receptacle.

2,611,517
GARMENT RETAINING MEANS
Peter H. Simonsen, Avon, N. J.
Application February 1, 1950, Serial No. 141,629
8 Claims. (Cl. 223—88)



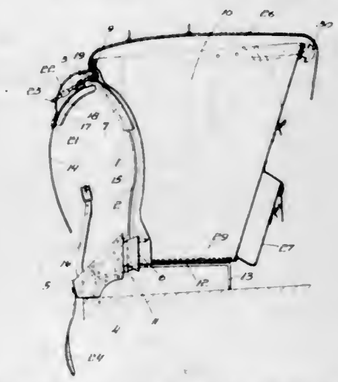
1. A garment retaining means comprising a substantially flat frame member for insertion in a garment, sleeve fold guiding and shielding devices of substantially flat body formation respectively carried by the frame member at opposite end portions thereof, said devices and the frame member end portions by which they are carried having cooperative hinge elements operative to pivotally connect the former to the latter so that said devices are capable of being outswung for disposition angular to the frame member end portions subject to insertion into upper interiors of the respective garment sleeves and thereafter to be in-swung parallel to the plane of said frame member, and said hinge elements having cooperative stop means for limiting in-swinging movement of said devices to outwardly offset parallel disposition relative to the frame member, and thus to maintain sleeve fold shielding space between said devices and frame members.

2,611,518
GARMENT RETAINING MEANS
Peter H. Simonsen, Avon, N. J.
Application May 11, 1950, Serial No. 161,441
4 Claims. (Cl. 223—88)



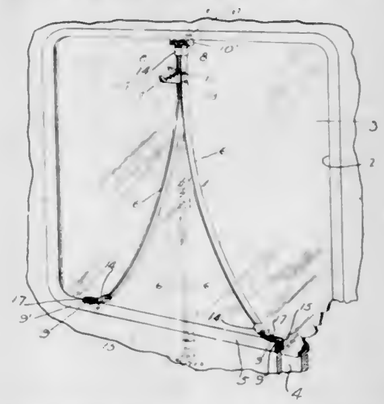
1. A garment retaining means comprising a body adapted for insertion within a garment between its sleeve arm holes, resilient carrier members extending from said body at opposite ends thereof, outer end portions of the carrier members being doubled back therefrom to form resiliently flexible elbow portions terminating in flexible embracing arms normally disposed in offset plane substantially parallel to the plane of said body and sufficiently spaced therefrom to accommodate and shield infolded sleeve portions therebetween, and sleeve fold guiding and supporting devices carried by said embracing arms and disposed substantially in the plane thereof.

2,611,519
RACK-KNAPSACK
Sven Ludvig Utterström, Boden, Sweden
Application March 10, 1949, Serial No. 80,728
In Sweden April 7, 1948
9 Claims. (Cl. 224—25)



1. A rack-knapsack comprising a metal rack and a knapsack attached to said rack, said rack comprising a substantially vertical frame and a substantially horizontal frame extending rearwardly from the lower part of the vertical frame, a transversal supporting member for the small of the back of a supporting person on said vertical frame and a transversal sheet supporting member at the upper part of said vertical frame, two forwardly projecting bracket members on the top part of said vertical frame adapted to rest upon the shoulders and slightly above the clavicles of the carrying person, the upper part of said vertical frame together with the said sheet supporting member being curved towards said brackets and adapted to rest against the shoulder blades, and carrying straps attached to the upper part of said vertical frame and connected to said brackets.

2,611,520
GARMENT-SUPPORTING FIXTURE
William E. Zamboni, Longview, Wash., and Kenneth E. Luger, Minneapolis, Minn., assignors to Kenneth E. Luger and Catherine P. Luger, a partnership doing business as Kenneth E. Luger Co., Minneapolis, Minn.
Continuation of application Serial No. 655,156, March 18, 1946. This application October 13, 1949, Serial No. 121,140
5 Claims. (Cl. 224—42.45)

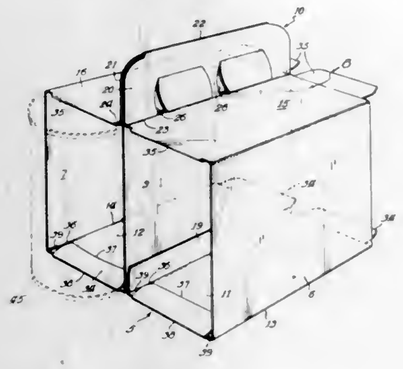


1. In a garment hanger of the kind and for the purpose set forth, a pair of laterally resilient elongated legs secured together adjacent their upper ends and having their opposite or lower ends free for yielding spreading movements one in respect to the other thereof, a garment-supporting element carried by the connected upper end portions of said legs and projecting therefrom in a direction transversely of the plane of the longitudinal edges of the legs, the connected upper and free lower ends of said legs being adapted to engage opposite inner marginal wall portions of a window frame and being provided with projecting retaining flanges adapted to extend into the space between the window glass and frame, the several retaining flanges being disposed in a common plane closely adjacent to and substantially parallel to the plane of the longitudinal edges of the legs opposite the direction of projection of the garment-supporting element.

2,611,521
CARRIER FOR CHIMED CANS
Frank W. Hackman, Maywood, and William J. Poole, Evanston, Ill., assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application September 16, 1949, Serial No. 116,043
1 Claim. (Cl. 224—45)

A paperboard carrier for a row of chimed cans of predetermined height and diameter especially adapted for use with such cans having bulging end closures, said carrier comprising elongated top and bottom panels and vertical side panels connected to the longitudinal edges of the top and bottom panels thereby forming a compartment having an interior height and width substantially the same as the exterior height and diameter of the cans, respectively, and a can

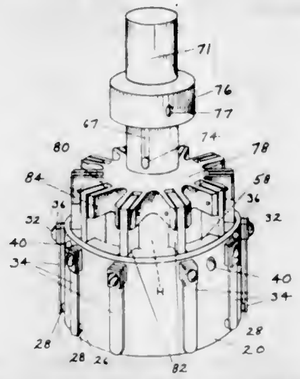
retaining flap hinged to the bottom panel adjacent an end thereof foldable along a transverse hinge line inwardly against the bottom panel, said flap having laterally spaced chime-engaging edge portions, said flap having a dimension measured along said transverse hinge line substantially less than the width of the bottom panel and less than the diameter of the inner surface of the can chime, and being disposed symmetrically with respect to the width of the bottom panel to permit traverse of a can thereover inwardly of the compartment with the trailing edge portion of the chime engaging the end edges of the flap at such angles that the can during its inward movement rides smoothly over the flap, and said flap having a dimension measured perpendicular to said transverse hinge line



somewhat less than one-half the width of said bottom panel, the laterally spaced edge portions of the flap being adapted to conform to the inner chime surface of a can for engaging spaced sections of the inwardly disposed portion thereof upon disposition of a can having a bulging end closure over the flap with the spaced edges of the flap enclosed by the chime to retain the can against outward movement, the can retaining flap being cut away on both sides from the hinge line to the lateral chime-engaging portions sufficiently to avoid contact with the can chime, and also being cut away beyond the chime engaging portions to avoid contact with the can chime, whereby said laterally spaced chime-engaging portions provide the sole points of contact with the can chime.

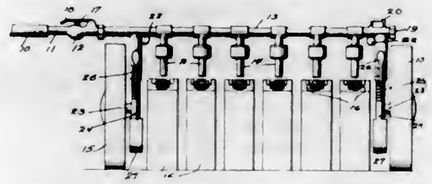
2,611,522
DIE
George W. Stockburger, Philadelphia, Pa.
Substituted for abandoned application Serial No. 732,553, March 5, 1947. This application July 9, 1951, Serial No. 235,865
6 Claims. (Cl. 226—86)

1. A die that is adapted to secure closures to containers which comprises a plurality of reciprocable fingers that are circumferentially and radially spaced to receive a container and are movable toward and away from said container, means operable to move said fingers toward said container, said means including a plurality of pivotally mounted axially movable actuators that engage said fingers, said actuators being narrower than said fingers, and said fingers and actuators having interacting surfaces permitting circumferential movement of said fingers as the fingers move radially of said container, and resilient members interposed between said fingers respec-



tively and biasing them apart while permitting circumferential movement of said fingers.

2,611,523
WHEEL-MOUNTED DRUM FILLING ASSEMBLY
Andrew A. Aines, United States Army
Application March 28, 1949, Serial No. 83,963
5 Claims. (Cl. 226—93)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

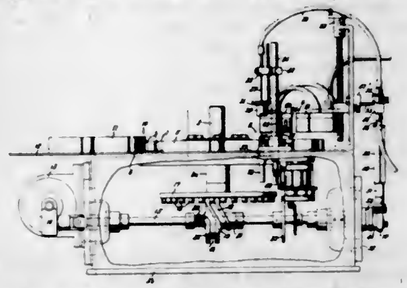


1. Apparatus for filling drums or cans with liquid comprising a hose connected to a supply source of the liquid; a header assembly connected to the hose; nozzles on the header assembly adapted to discharge the liquid into drums or cans arranged in regular rows; a pair of wheels having axles; means for coupling the axles of the wheels to the header assembly, said means permitting swinging of the header assembly about the axis of the wheel axles; and a counterweight fixed to each of said means to hang below the axis of the respective wheel axles, the two counterweights acting to hold the header assembly normally in the uppermost position.

2,611,524
APPARATUS FOR FILLING AMPOULES
Harry E. Taylor, Baltimore, Md., assignor to Baltimore Biological Laboratory, Baltimore, Md., a corporation of Maryland
Application November 25, 1947, Serial No. 788,050
2 Claims. (Cl. 226—96)

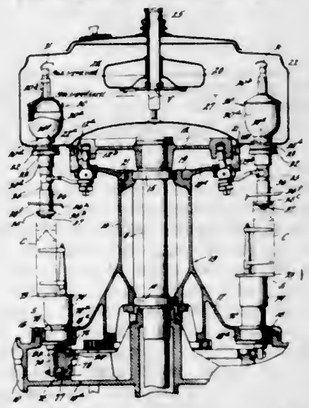
1. Automatic ampoule filling apparatus comprising a drive shaft, a transmission actuated by said drive shaft, ampoule conveying means intermittently actuated by said transmission, an ampoule filling assembly actuated by said drive shaft, and means adapted to supply said ampoule filling assembly with measured amounts of fluid comprising a cam shell mounted on said drive shaft, means for varying the camming effect of said cam shell, a plunger pump actuated by said

cam shell, a fluid conducting valve block associated with said pump, a fluid inlet mounted in said block, a fluid intake valve actuated by said pump and mounted in said inlet, a fluid outlet conduit mounted in said block, a conduit connecting said fluid outlet with said ampoule filling



assembly, a fluid output valve actuated by said pump and mounted in said outlet, a valve pin associated with said output valve, and a groove disposed in said valve pin adapted to permit the flow of fluid from said conduit to said compartment during closing movement of said output valve.

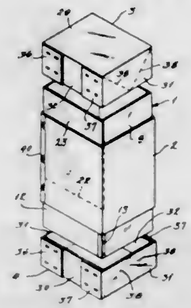
2,611,525
MECHANISM FOR CHARGING CONTAINERS
Robert Spurr, Syracuse, N. Y., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application July 8, 1946, Serial No. 682,013
15 Claims. (Cl. 226—97)



11. Liquid measuring mechanism comprising a chamber having an upper outlet, a tube extending downwardly therefrom through which liquid may escape, said tube having an inlet port formed in the wall thereof through which liquid may enter to fill the chamber, means within the tube and movable axially thereof for opening and closing the same and opening and closing said inlet port, and separate actuating devices for causing said means to open and close said tube and port respectively.

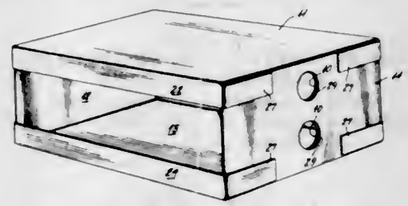
2,611,526
HEAVY-DUTY SHIPPING CONTAINER
Walter C. George, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application October 20, 1950, Serial No. 191,280
2 Claims. (Cl. 229—14)

1. A relatively tall collapsible shipping carton comprising a one-piece tubular rectangularly shaped body section, a one-piece outer rectangularly shaped tubular sleeve complemental in shape with and of less length than the body section and having end edges in a single plane terminating substantially equidistant inwardly from opposite end portions of the body section, thus exposing outer face portions of the body section, a substantially similarly formed removable and collapsible closure cap slidably and snugly positioned on each of the exposed portions of the body section, each cap having a panel



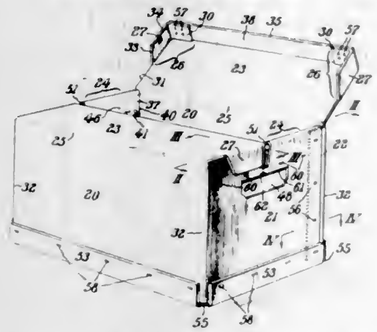
and integral flanges with end edges of the flanges in a single plane with opposed flanges having diagonal score lines to permit collapsing of the caps, the dimensions of the flanges being so calculated with respect to the exposed end face portions of the body section as to completely cover the same, the opposed end edges of the body section abutting an interior adjacent portion of the panel of the caps, and the end edges of the sleeve and the edges of the cap flanges being in direct abutting and aligned relationship and in the same plane.

2,611,527
PORTABLE DISPLAY CARTON
John V. Fisher, San Francisco, Calif.
Application January 16, 1950, Serial No. 138,830
4 Claims. (Cl. 229—16)



3. A portable display carton of rectangular construction having top and bottom panels and end panels, said top and bottom panels being connected at opposite sides of one end panel and having other end panels connected thereto to provide a symmetrical relation of said top and bottom panels and said other end panels with respect to said one end panel, said top and bottom panels having attached to the respective sides thereof side panel portions having end tabs for attachment to the respective end panels in the assembled condition of the carton, said side panel portions in the assembled condition of the carton providing tray-like container retaining structures and being spaced apart to display the labels of containers within the carton, said other end panels being secured together in overlapping relation and having respective pairs of aligned apertures forming a finger grip.

2,611,528
CONTAINER
Samuel Vadner, Cynwyd, Pa.
Application August 1, 1950, Serial No. 176,934
6 Claims. (Cl. 229—23)



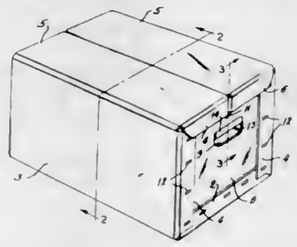
3. A container comprising adjacent side and end walls substantially at right angles to one another, a cover panel hingedly attached to the top of a first one of said walls and having a free end spaced therefrom, side flanges on said cover panel having a portion cut away adjacent the cover-carrying wall to form edge portions of said flanges, said edge portions being spaced between the cover-carrying wall and the free end of the cover panel, a reinforcing flap hingedly attached to the top of a second one of said walls immediately adjacent said first wall, said reinforcing flap including a cross-brace panel into which the cut away portion from said cover side flange is incorporated to provide a side edge constructed and arranged to abut against the inner surface of said first wall, a spacer panel comprising an extension of said cross brace panel, said spacer panel being folded along a score line with respect to said cross brace panel and disposed between the cross brace panel and the second of said walls serving to space the cross brace panel apart from said second wall to provide bracing leverage for the side edge of the cross brace panel against said first wall.

2,611,529
INTEGRAL CARTON FOR PROTECTION OF FRAGILE ARTICLES
John F. Currivan, Dayton, Ohio
Application October 27, 1948, Serial No. 56,736
9 Claims. (Cl. 229—38)



5. An integral carton of substantially rectangular cross-section for the protection of fragile articles consisting of a single blank having first, second, third and fourth side wall panels which are separated by fold lines and are angularly related in the erected carton, at least two end closure flaps having foldable extensions, said end closure flaps integrally extending from the ends of certain of said first, second, and fourth side wall panels only, additional and closure flaps extending integrally from the opposite ends of two of the side wall panels which are opposed in the erected carton and, in the erected carton, are immediately adjacent the panels to which said first mentioned end closure flaps are attached, said end closure flaps being adapted to provide end walls of the erected closed carton, a glue lap extending from said fourth side wall panel and adapted to be overlapped by said first side wall panel and be rigidly secured thereto, and an internal flap panel extending integrally from said glue lap in angular relation to said first side wall panel in the erected carton and terminating in a free end in sliding contact with the inner surface of said second side wall panel to provide a flexible inner wall panel in the erected carton to yieldingly support an article therein, said inner flap panel having at least one lateral edge portion inclined with respect to the fold lines whereby an article being inserted into the carton exerts the camming action against said edge portion to facilitate the loading of said carton.

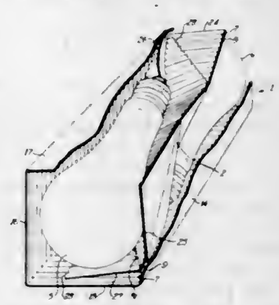
2,611,530
SHIPPING CARTON WITH HANDHOLE REINFORCING AND FLAP SECURING CLIP
Walter C. George, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application October 1, 1948, Serial No. 52,326
3 Claims. (Cl. 229—52)



1. A wall of fiberboard or like bendable and compressible material having an elongated hand hole therethrough, said wall having a reinforcing wall part associated therewith, the wall part having an edge portion extending along the upper edge of said hand hole, the upper edge of the hand hole and said edge portion of the wall part being flat and extending substantially flush with each other, the upper edge of the hand hole being parallel to the upper edge of said wall, the wall and the wall part each being provided with an elongated pre-formed anchoring groove in its outer face having a flat bottom wall extending inwardly therefrom at substantially a right angle thereto and parallel with and adjacent to the upper edge of said hand hole, said grooves each being of a length substantially equal to the length of the hand hole opening, and a combined hand grip and spring clamp of channel formation comprising straight side flanges and a bottom web having a flat inner side face, said flanges each being substantially coextensive in length with the upper edge of said hand hole and each flange having thereon at its free end an inwardly projecting rib that has a flat bottom face extending at substantially a right angle to the inner face of the flange, the bottom web of the clamp being no greater in width than the combined thickness of said wall and wall part, the flanges of the clamp initially before the clamp is applied to said wall and wall part extending outwardly on converging lines and the distance between opposite outer portions of the flanges being less than the combined thickness of said wall and wall part, said clamp being sprung over the edges of said hand hole and wall part to straddle the same with the inner face of its bottom web seated flatwise against the free lower edge of the wall part and the upper edge of the hand hole, the location

of said grooves relative to the upper edge of the hand hole and the width of said flanges of the clamp being such that the ribs of the flanges snap into and are locked in said anchoring grooves of the wall and wall part with the flat bottom faces of the ribs fitting against the flat bottom faces of said grooves, the inner side faces of said flanges throughout the extent thereof between the juncture of the same with the bottom web and the ribs at the free ends thereof bearing flatwise against and exerting inward pressure upon the remote faces of said wall and wall part whereby said aligned edges of said hand hole and said wall part are immovably held in fixed relation under sustained compression against the bottom web and flanges of the clamp, and the clamp is securely held to the wall and wall part against accidental displacement and provides a hand grip in the upper part of the hand hole.

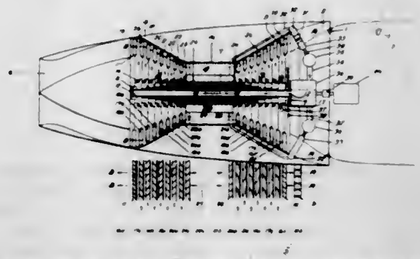
2,611,531
TWO-LAMP WRAPPER
Gordon A. Conkle, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application February 25, 1949, Serial No. 78,332
4 Claims. (Cl. 229—90)



1. A wrapper for a pair of pear-shaped incandescent lamps comprising an elongated sleeve having substantially the same lateral dimensions as a sleeve designed to receive and grip but a single one of the lamps of the size for which the wrapper is designed and comprising also a longitudinal partition of flexible material integral with said sleeve and dividing its interior into longitudinally extending open-ended compartments, each end of said partition being split longitudinally so as to be separable laterally into two flexible portions to fit between the sides of the sleeve and the sides of the lamp bulbs when a pair of said lamps are thrust longitudinally base end first into opposite ends of the sleeve, on opposite sides of the partition and a sufficient distance into the sleeve to overlap their respective base ends whereby the latter are spaced apart by said partition and the lamps are firmly gripped by said sleeve.

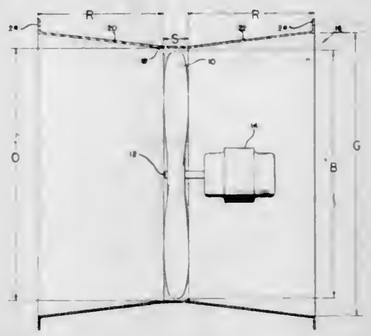
2,611,532
TURBINE DRIVEN COMPRESSOR
Birger Ljungström, Stockholm, Sweden
Application September 22, 1945, Serial No. 618,042
In Sweden September 23, 1944
1 Claim. (Cl. 230—116)

In a machine of the character described, the combination of a spool-shaped casing having an air inlet at its one end and an exhaust gas outlet at its other end, a stationary shaft centrally arranged in said casing, a set of tubular rotatable shafts concentrically surrounding said central shaft with the ends of each inner tubular shaft projecting beyond the ends of the adjacent surrounding shaft, a compressor blade wheel supported by one projecting end of each tubular shaft, a turbine blade wheel supported by the other projecting end of each tubular shaft, a bushing stationarily arranged in the casing around the outermost tubular shaft, adjacent blade wheels being axially spaced from each other



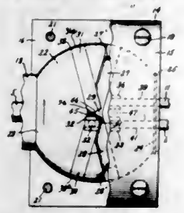
and having radially spaced concentric flanges on their sides facing each other so as to enclose an annular space between each two adjacent blade wheels, a ball bearing inserted in each such annular space and other ball bearings inserted in similar annular spaces formed between the blade wheels of the innermost tubular shaft and the stationary central shaft as well as between the outermost tubular shaft and said stationary bushing.

2,611,533
REVERSIBLE FAN AND DELIVERY TUBE
Donald D. Herrman and Homer K. Monroe, Piqua, Ohio, assignors to Hartzell Propeller Fan Company, Piqua, Ohio, a corporation of Ohio
Application November 8, 1949, Serial No. 126,163
2 Claims. (Cl. 230—120)



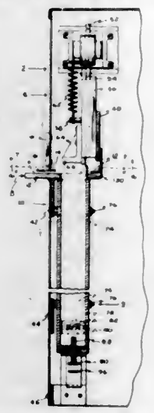
1. In combination, a propeller adapted for reversible operation for moving gases such as air, and exhibiting substantially equivalent aerodynamic properties in both directions of rotation, and a delivery tube mounted about said propeller, said tube comprising a cylindrical center part in the plane of said propeller and of substantially the same axial length as the width of said blades measured along a plane parallel to the axis of rotation of said propeller, and outwardly tapering frusto-conical end parts of substantially identical configuration connected with said cylindrical center part and forming inlet and discharge ducts for said tube, said center part being connected to said end parts in radially co-extensive relationship so as to provide a delivery tube having a smooth and uninterrupted inside surface from end to end.

2,611,534
ROTARY PUMP
Floyd M. Kirkpatrick, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 26, 1949, Serial No. 129,644
20 Claims. (Cl. 230—137)



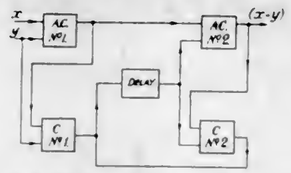
1. A pump comprising a housing having a spherical chamber therein, a rotor within said chamber, said rotor having a spherical surface arranged to engage the surface of said chamber, said rotor having a pair of circumferential grooves formed in said spherical surface thereof, said grooves intersecting each other at two diametrically opposite points, a semicircular piston segment positioned in each of said grooves, means for maintaining said piston segments against rotation with said rotor while permitting lateral oscillation of said segments, and an inlet recess and a discharge recess within said housing adjacent said spherical surface of said rotor communicating with each of said grooves, both of said recesses extending transversely with respect to said grooves, said recesses being circumferentially spaced from each other and being disposed on opposite sides of a plane extending between the ends of said segments and along the axis of said rotor.

2,611,535
SAFETY INTERLOCKED TICKET RECEIVING AND CHECKING MACHINE
Milton H. London, Detroit, Mich.
Application June 23, 1948, Serial No. 34,738
9 Claims. (Cl. 232—12)



1. In a ticket collecting and stacking machine comprising a casing having a ticket receiving opening, means inside the casing for receiving tickets inserted through said opening in superimposed relation and arranged to form of them a vertical stack, means within the casing for moving inserted tickets to and into cooperative stacking relation with the receiver and thus to form in the receiver a vertical stack of superimposed tickets and releasable means for blocking the receiver and thus locking the stack to the receiver, thus to prevent unauthorized removal of a stack from the receiver, said blocking means being a part of and unitary with the receiver so as to be removable from and insertable into the casing only as part of the receiver as a whole, and releasable key means movably mounted in the casing and externally accessible for actuation and associated with the blocking means and operable for simultaneously locking a properly mounted and authorized receiver in place under the ticket moving means and for moving the blocking means from receiver blocking position and also operable for simultaneously releasing the receiver for removal thereof from the casing and moving the blocking means to receiver blocking position.

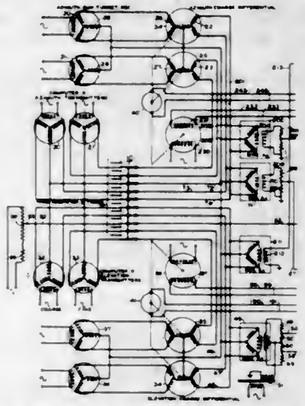
2,611,536
DIGITAL CALCULATING MACHINE
James Edward Barrow, Borehamwood, England
Application March 26, 1951, Serial No. 217,458
In Great Britain March 28, 1950
5 Claims. (Cl. 235—61)



1. In a binary digital calculating machine, a subtraction circuit comprising a first and a second anti-coincidence unit, a first and a second coincidence unit, a delay unit, a pulse input channel to the first anti-coincidence unit for each of the two pulse sequences representing respectively the numbers whose difference is to be found, and a pulse input channel to one of the inputs of the first coincidence unit for feeding the subtrahend thereto simultaneously with its being fed to the said first anti-coincidence unit, and pulse transmission channels interconnecting the said units as follows: a channel connecting the output from the first anti-coincidence unit to one of the inputs of the second anti-coincidence unit; a channel connecting the output from the first anti-coincidence unit to the other of the inputs of the first coincidence unit; a channel connecting the outputs of each of the coincidence units to the delay unit; a channel connecting the output of the delay unit to the other input of the second anti-coincidence unit and to one of the inputs of the second coincidence unit; and a channel connecting the output of the second anti-coincidence unit to the other input of the second coincidence unit, and a resultant output channel from the output of the second anti-coincidence unit.

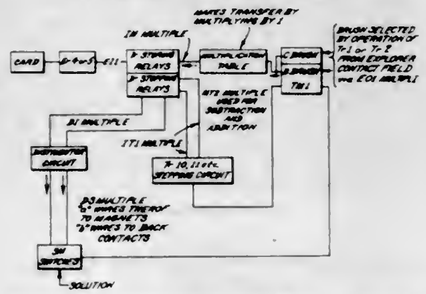
2,611,537
PARALLAX CORRECTION CIRCUIT
Gifford E. White, Hempstead, Robert L. Graef, Brooklyn, and Charles J. La Forge, Hempstead, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application June 23, 1944, Serial No. 541,750
10 Claims. (Cl. 235—61.5)

4. In an aiming system wherein a control device transmits aiming angle data over self-synchronous transmission circuit means to a gun positioning device, the improvement which comprises a plurality of transformers energized by signals transmitted over the transmission means having turn ratios adapted to produce output voltages respectively proportional to sines and cosines of transmitted elevation and azimuth aiming angles, means providing a voltage proportional to range, means jointly controlled by the latter voltage and the output voltages of the several transformers for deriving voltages proportional to parallax correction angles for the gun positioning device, rotary differential transformer means in the transmission circuit means adapted with changes in the angular position of the rotary member means thereof to effect a corresponding change in the transmitted aiming angle data, rotary inductive means coupled with the rotary member means of the differential



transformer means having linear output voltages, the magnitude of which is controlled by the angular position of the rotary differential transformer means, means comprising a potentiometer for further adjusting said voltages to compensate for the spacing between said devices, means for comparing the adjusted last mentioned output voltages with those proportional to parallax correction, and means controlled by a difference in said voltages for effecting angular movement of the differential transformer means as well as the rotary inductive means until a difference no longer exists, whereby the differential transformer means are positioned so that the aiming angle data received at the gun positioning device is corrected for parallax.

2,611,538
ELECTRICAL CALCULATING APPARATUS
William Hatton, South Orange, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application July 27, 1942, Serial No. 452,506
54 Claims. (Cl. 235—61.8)



1. Electric calculating apparatus comprising exploring means for reading a plurality of digits in a preselected order from a record card while moving thereacross, means for storing the digits read in the order of reading, means for performing a desired type of computation with respect

to the numbers represented by the stored digits, multi-order accumulating means for receiving the digits of a number in different orders thereof, relay means for selecting the orders of said accumulating means in which the numerical results of said computation are to be placed, and means operated by the movement of the exploring means for controlling said relay means.

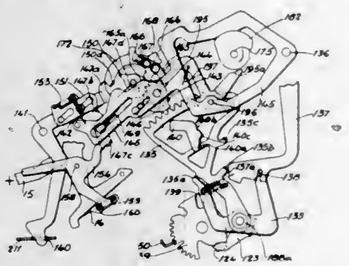
16. Electric calculating apparatus comprising a plurality of groups of input storage relays for storing incoming numbers, each digit of an incoming number being stored in a separate group of said storage relays, a plurality of accumulating switches, a plurality of groups of distributor relays for selecting accumulating switches in groups each group of switches being selected by a separate group of distributor relays, a source of pulses, a master switch common to all accumulating switches and connecting the source of pulses over the distributor relays to the accumulating switches of the selected group for stepping the switches of said group in unison and means including connections from each of the switches of said group to one of said groups of storage relays for causing each of the switches of said group to stop stepping when it has reached a point corresponding to the number stored in the corresponding group of storage relays.

28. Electric calculator apparatus comprising card explorer means for reading the data punched on a card column by column, calculating circuit means operated from data read from the card, means for producing a relative movement of the explorer and card during the exploring operation, brush means and a cooperating contact field comprising a plurality of rows of contacts, the rows corresponding in number to the columns of the card, means for advancing the brush means over the contact field in synchronism with the relative movement of the explorer and card, a plurality of circuits controlling calculating operations adapted to be closed and then opened by said brush means as it engages the respective rows of contacts one after another, a control unit for said calculator having a plurality of manually operable switch means, one for each type of calculation, a self locking relay circuit including a plurality of relays operatively associated with each of said switch means, and means controlled from any of said self locking relay circuits for establishing the necessary connections to the respective contacts in said contact field for the required operations of the calculator whereby the operations of the calculator are timed invariably in respect to the reading of the card in accordance with an operated switch means.

40. An electric calculator comprising means for progressively exploring a number of data positions, a plurality of groups of storing relays, means depending upon the progress of the exploring means to store the digits of a number for a calculation operation on said storing relays, a plurality of accumulating switches, means controlled by said storing relays for actuating said accumulating switches to register the result of a calculation, means comprising a plurality of relays for receiving one at a time the digits registered on said accumulating switches, recording means including set up members for recording the digits arranged over a field of data positions, received by said relays and means for progessively setting up said members over a number of data positions, the progress of the set up means being dependent upon the arrival of the explorer means in a predetermined position with the set up members being controlled by the last-mentioned relay means.

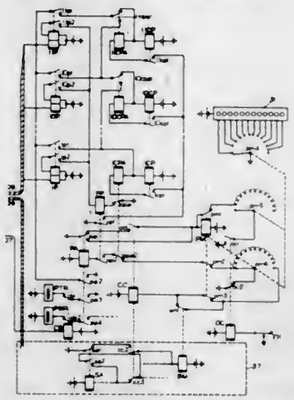
49. In a calculator adapted to perform division calculations, means to register numbers for a dividend and divisor, means for obtaining an approximate quotient digit, means for subtracting the partial products of said quotient digit and divisor from the dividend by successive operations, means to produce extra carry-over impulses with the successive subtractions when subtraction is possible, and means controlled by said extra carry-over impulses for comparing the value of at least the highest digit of the remainder with that of the corresponding digit of the divisor to determine whether or not said remainder is smaller than the divisor.

2,611,539
SHORT-CUT MULTIPLYING MACHINE
Sture Toorell and Erik Grip, Atvidaberg, Sweden, assignors to Aktiebolaget Atvidaberg Facit, Atvidaberg, Sweden, a joint-stock company of Sweden
Application January 28, 1947, Serial No. 724,799
In Sweden February 6, 1946
6 Claims. (Cl. 235—79)



1. In a calculating machine for automatic shortcut multiplication of the type in which a single ten key keyboard is utilized for setting both a multiplicand actuator and a multiplier storage device having a plurality of denominational orders and in which the settings are directly proportional to the digital value entered, in combination, a device for sequentially sensing the digital amounts set in the individual denominations of the multi-order multiplier storage device, means for shifting said sensing device from one denominational order to another in sequence, a gear segment operatively connected with said sensing device, a gear wheel normally in mesh with said gear segment and rotated thereby at each sensing operation a number of steps equal to the digital value sensed said gear wheel being shiftable to a position out of mesh with said gear segment, means connected to said gear wheel for determining the direction of rotation of the multiplicand actuator in accordance with the magnitude of the digit sensed, means automatically operated upon completion of sensing in a denominational order to initiate cycling of the multiplicand actuator, a counting tooth driven by the multiplicand actuator, said counting tooth being engaged with said gear wheel when said gear wheel is out of mesh with said gear segment, said counting tooth serving to count said gear to its zero position in a direction dependent upon the direction of rotation of the multiplicand actuator to thereby effect a predetermined number of cycles of the multiplicand actuator in a positive direction upon the sensing of a particular digital value or a number of cycles in a negative direction corresponding to the tens complement of the said particular value, means for terminating the cycling of the multiplicand actuator upon said gear wheel reaching its zero position and means for initiating the operation of said sensing device shifting means to bring about repetition of the controlled cycling of the multiplicand actuator resulting from sensing in the adjacent denominational order.

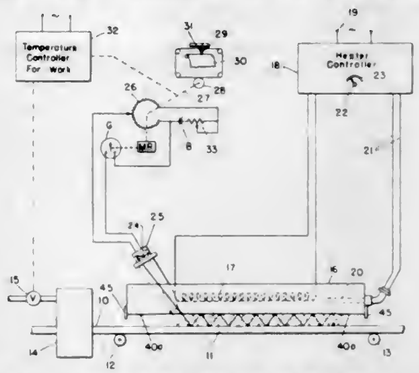
2,611,540
ARTICLE DISPENSING SYSTEM
Peter Lincoln Law, Roseville, near Sydney, New South Wales, Australia, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a company incorporated under the laws of Australia
Application May 26, 1949, Serial No. 95,495
In Australia June 11, 1948
9 Claims. (Cl. 235—92)



1. A value indicating and registering arrangement comprising: a set of contact members selectively operable in accordance with the designations of the kinds of articles to be valued; a selecting mechanism electrically connected with said contact members; switching means individual to each kind of article and electrical connections therefrom to said selecting mechanism, each of said switching means being selectively operable by the operation of said contact members in accordance with the designation of the corresponding kind of article; a locking circuit for each of said switching means; a timing device including relay means and electrical connections therefrom to said switching means and operable therewith to interrupt said locking circuits a predetermined time interval after the operation of any of said switching means; a jumpering frame including two groups of terminals, one group of terminals of said jumpering frame being electrically connected with said switching means; and value indicating and registering means and connections therefrom to the other group of terminals of said jumpering frame, the connections between the two groups of terminals of said jumpering frame being adjustable to alter the relationship of any of said switching means to said indicating and registering means.

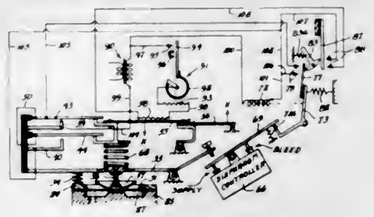
2,611,541
RADIATION PYROMETER WITH ILLUMINATOR
William T. Gray, Jenkintown, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 7, 1950, Serial No. 142,799
19 Claims. (Cl. 236—15)

3. A system for controlling the temperature of a work surface comprising an illuminator having a substantially flat surface area disposed in closely spaced relation with the work surface, a heater for said illuminator, means for controlling the energization of said heater to maintain said illuminator at a predetermined temperature, radiant-energy responsive means having a line of sight disposed to view by reflection extended areas of said illuminator surface and said work surface, said illuminator having a peripheral



area having multiple faces for reflecting external radiant energy away from the space between said illuminator and said work surface and for redirecting between said surfaces radiant energy originating from them, and means responsive to the output of said radiant-energy responsive means for maintaining the temperature of the work surface at substantially the same temperature as that of said illuminator.

2,611,542
FLUID-FLOW CONTROL DEVICE AND SYSTEM
Stephen Crum and Hubert T. Sparrow, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 23, 1948, Serial No. 45,746
19 Claims. (Cl. 236—68)



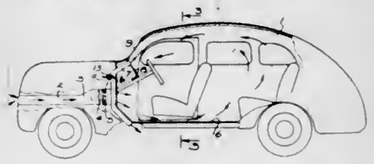
1. A control device comprising a fluid flow control means, a controller for said means, a first power means for moving said controller to a fluid flow permitting position, pressure responsive means for positioning said controller in accordance with outlet pressure of the device, resilient loading means for said pressure responsive means, second power means for regulating the force of said loading means, a manually operable switch having means for actuating said controller to said position and for completing a power circuit to said first power means, said switch being biased to return to its inoperative position when power is present in said circuit, and contacts positioned with respect to said pressure responsive means and said second power means so as to be operable thereby for controlling the energization of said first power means.

2,611,543
STOVEPIPE DAMPER
Glenn A. Sticht, Missoula, Mont.
Application September 20, 1950, Serial No. 185,860
1 Claim. (Cl. 236—93)



A device of the class described comprising a damper journaled in a flue, spaced arms on said damper, a bimetallic thermostat pivotally mounted, at an intermediate point, in the flue adjacent the damper and having one end portion extending between the free end portions of the arms and engageable therewith for opening and closing said damper, and a screw threadedly mounted in the flue and engaged with the other end portion of the thermostat for swingingly adjusting same.

2,611,544
HEATING ARRANGEMENT FOR CLOSED AUTOMOTIVE BODIES
Edmund E. Hans, Detroit, Mich.
Application September 24, 1949, Serial No. 117,575
2 Claims. (Cl. 237—12.3)

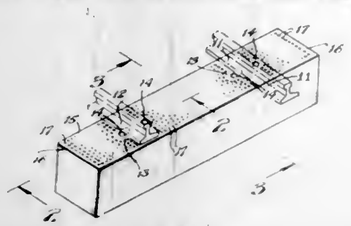


1. A heating arrangement for closed vehicle bodies including a closed body, a substantially horizontal air inlet duct in the hood of said body open at one extremity to the outside at the front of said hood and at the other extremity into the front of the body adjacent the floor, heating means in the duct, means in the duct for forcing air from outside through the heating means and rearwardly in the body adjacent the floor whereby air rises at the back of the body and returns at a higher elevation toward the front where it flows downwardly, an air outlet pipe arranged adjacent said heating means, said pipe being open at one extremity within the body above the point of discharge of the air from the duct into said body and being open at its other extremity outside of the body below the aforesaid point of discharge whereby upon completion of its flow pattern air is exhausted through said outlet pipe at the front of the body.

2,611,545
RAILROAD TIE
William W. Bartlett, New York, N. Y.
Application April 30, 1949, Serial No. 90,705
1 Claim. (Cl. 238—84)

In a railroad tie, a tie body having a thickness substantially equal to that of the width thereof and having longitudinally spaced solid

portions extending transversely of the tie and adapted to receive the railroad rails thereon, said solid portions having openings adjacent the side edges thereof extending through the tie for receiving fastening means for securing the rails on the tie, and said tie body having solid peripheral portions extending longitudinally of the opposite side edges and across the end edges with



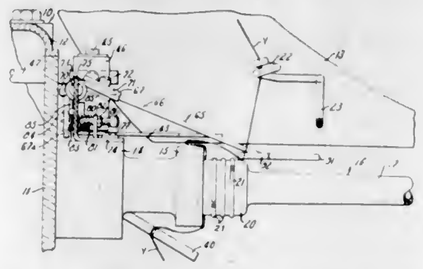
the remainder of the body bounded by said solid portions and between said longitudinally spaced portions being of cellular formation consisting of closely spaced openings extending through the top and bottom faces of the tie body with the diameters of the openings being substantially equal to the thickness of the walls between adjacent openings.

2,611,546
LINER CONSTRUCTION FOR GRINDING MILLS
Ejnar Posselt, Pelham, N. Y., assignor to Kensington Steel Company, Chicago, Ill., a corporation of Illinois
Application November 15, 1949, Serial No. 127,436
6 Claims. (Cl. 241—183)



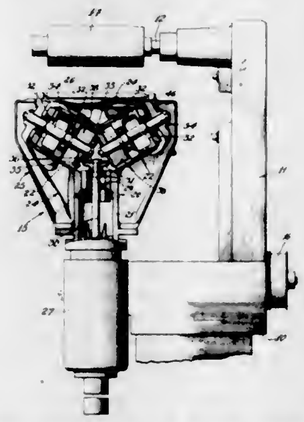
6. In a liner construction for grinding mills, the combination including, a tubular outer shell having circumferentially spaced rows of longitudinally aligned fastening receiving openings, a series of abutment strips also having fastening receiving holes registering with said aligned openings of the shell, said strips welded to the inner face of the shell and the leading edge of each strip providing a liner plate abutment shoulder, liner plates each of less width than the distance between adjacent abutment strips and each having a trailing abutment strip engaging edge at one side and a leading lifter bar abutment edge at the other side, lifter bars each having a portion overlying the edges of adjacent liner plates and also having a trailing liner plate abutting edge for engaging with the said leading lifter bar abutment edge of an adjacent liner plate, said lifter bars each having fastening receiving holes registering with the openings in the shell and the holes in the abutment strips, fastenings in the said registering openings and holes, whereby, when the fastenings are secured to the shell, the said trailing liner plate abutment edge of each lifter bar will engage with the leading abutment edge of the adjacent liner plate and bear thereagainst to transmit tangential components of forces from the lifter bars through the liner plates to the leading liner plate abutment shoulder of the next adjacent upstream abutment strip and to the shell to relieve the said fastenings for the lifter bars of shearing stress.

2,611,547
YARN GUIDE FOR AUTOMATIC BOBBIN WINDERS
John W. May, Pendleton, S. C., assignor to Deering Milliken Research Trust, Pendleton, S. C., a nonprofit trust of Maine
Application October 2, 1950, Serial No. 188,021
7 Claims. (Cl. 242—18)



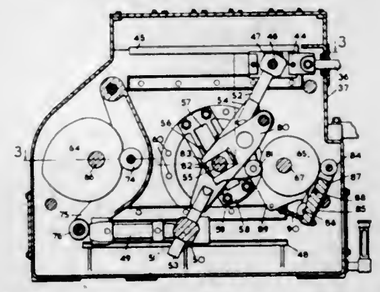
1. In an automatic winding machine having a chuck to which bobbins are successively directed for winding yarn thereon and also having a yarn guide spaced substantially from the bobbin for directing the yarn thereto, an auxiliary yarn guide normally disposed adjacent the first yarn guide and means automatically operable upon a filled bobbin being ejected from the chuck and a succeeding empty bobbin being received by the chuck for moving the auxiliary yarn guide to occupy a position immediately adjacent the head of the bobbin to thus direct the yarn thereto to insure that the yarn will be drawn across the head of the bobbin in a helix of relatively large pitch.

2,611,548
YARN TRAVERSE FOR YARN WINDING MACHINES
Edward J. Heizer, Mountain Lakes, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application July 9, 1949, Serial No. 103,934
15 Claims. (Cl. 242—43)



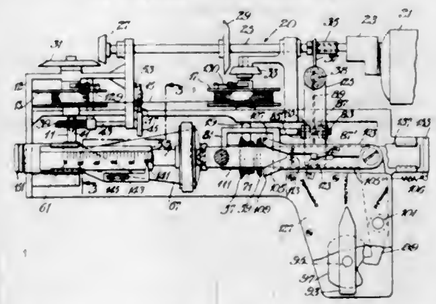
1. A yarn traverse for a winding machine comprising a support, a pair of shafts mounted on said support at an angle with respect to each other, a gear on each of said shafts in meshing relation with the other, a generally conical cup-shaped member having a generally conical heart-shaped yarn guiding edge surface mounted on each of said shafts constructed and arranged to cooperate with each other and provide an endless slit in which yarn is adapted to be passed back and forth, a drive shaft on said support, and a gear on said drive shaft in meshing relation with one of said gears on one of said pair of shafts.

2,611,549
YARN-WINDING MACHINERY
Edward Kinsella, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application October 25, 1946, Serial No. 705,704
In Great Britain October 31, 1945
6 Claims. (Cl. 242—43.7)



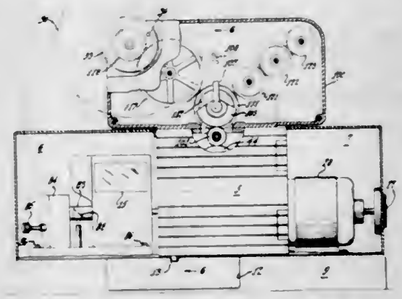
1. A yarn winding machine comprising a series of winding spindles, a series of yarn guide means, one for each spindle, a traverse rail movable to-and-fro parallel to said spindles for effecting relative movement between the said guide means and said spindles, a traverse lever having one part connected to said traverse rail, a block to which said lever is pivoted, guides for said block, means connected to another part of said lever for rocking said lever to and fro about its pivot to effect the traverse, and means for moving said block to and fro at a lower frequency, so as to vary the field of traverse, said guides being angularly adjustable so as to adjust the direction of the motion of said pivot and consequently the mode of variation of the field of traverse.

2,611,550
INDICATOR AND STOP FOR MAGNETIC WIRE RECORDERS
Herman Nygaard, Poughkeepsie, N. Y.
Application August 23, 1946, Serial No. 692,724
10 Claims. (Cl. 242—54)



1. In combination a pair of spools respectively rotatable about spaced axes, a filamentary member extending therebetween for winding in multiple layers thereupon, motive means for directly rotating one of said spools and thereby through tension in said member rotating the other spool to effect transfer of the member between the spools, and means for continuously indicating the relation between the rotative speeds of said spools comprising a pair of individually rotatable speed comparison members, driving connections between said spools and said members respectively, one of said connections including an adjustable speed gear, means for automatically equalizing the rotative speeds of said comparison members by adjustment of the speed ratio of said gear, and indicator means controlled in accordance with said adjustment, said adjustment being proportional to the ratio of the diameters of the outer layers of the windings on the two spools and thereby a function of the ratio of the lengths of the filamentary member constituting said windings, respectively.

2,611,551
PORTABLE SOUND FILM RECORDER
Milford Edwin Collins, Studio City, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application April 4, 1947, Serial No. 739,512
1 Claim. (Cl. 242—55)

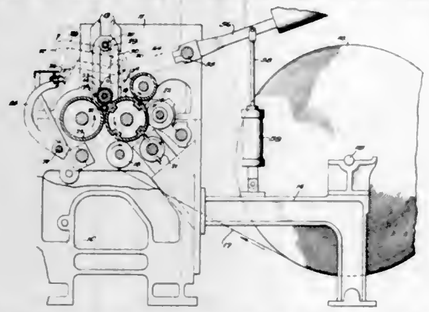


A sound recorder comprising a base section, a housing divided into compartments mounted on said base section, a driving mechanism in one of said compartments for advancing film in either direction therethrough, a film magazine including a casing having a pair of reels mounted on said housing, one of said reels being adapted to supply film to said mechanism when the other of said reels is winding up film therefrom, a film reel drive unit separate from said magazine and mounted between said mechanism and said magazine for driving said reels, the said drive unit including two independent gear trains, one of said trains consisting of an even number of gears operatively connected to one of said reels to drive the same in one direction and the other of said trains consisting of an odd number of gears operatively connected to the other of said reels to drive the same in the opposite direction, and a freely translatable gear interposed between said driving mechanism and the said gear trains for connecting either of said trains with said mechanism.

2,611,552
WEB WINDING MACHINE
Ernst Daniel Nystrand, Green Bay, Wis., assignor to Paper Converting Machine Co., Inc., Green Bay, Wis., a corporation of Wisconsin
Application November 9, 1951, Serial No. 255,693
12 Claims. (Cl. 242—64)

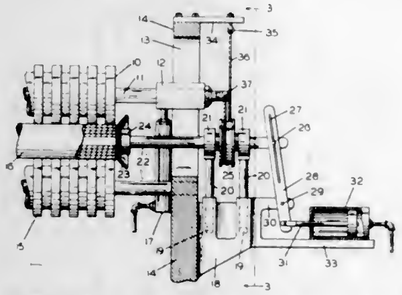
1. In a web winding machine, a frame having side walls provided with vertical slots, a pair of

driven winding rolls having their adjacent sides aligned generally with said slots, a shaft extending through the slots of said side walls, a spider having vertically slotted end walls receiving said shaft, a rider roll mounted upon said shaft,



spaced mandrels carried by the ends of said spider, and means associated with said shaft and spider for releasably clamping said shaft upon said spider, whereby upon rotation of said shaft said spider will rotate with said shaft as its axis.

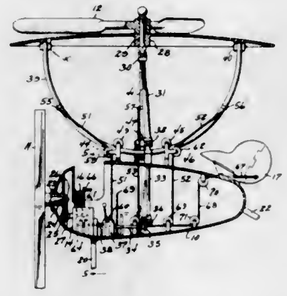
2,611,553
END GUIDE FOR RUG ROLLING MACHINES
Charles P. Dyken, Saukville, Wis., assignor to Dyken Manufacturing Company, Saukville, Wis.
Application September 21, 1948, Serial No. 50,349
2 Claims. (Cl. 242—66)



1. A device of the character described to be used in combination with a rug rolling machine having a pair of horizontal bottom rollers and a top adjustably and rotatably mounted roller, said rollers being mounted on a base, said device comprising a pair of horizontal shafts being slidably mounted in bearings, said bearings being vertically slidable on said base, said shafts supporting outwardly extending discs extending radially on said shafts on their inwardly disposed ends, in direct alignment with the point of contact of the horizontal base rollers and the top roller, means for slidably moving said shafts horizontally within said bearings and means in the form of a cable attached at one of its ends to said base, said cable extending around said horizontal shaft and attached at its other end to said vertical adjustable top roller.

2,611,554
AIRCRAFT ADJUSTABLE LIFT-PROPELLER CRADLE
Earl V. Sanders, Pawnee, Ill.
Application May 16, 1950, Serial No. 162,291
3 Claims. (Cl. 244—6)

1. In an airplane, the combination which comprises a fuselage mounted on wheels, a propeller positioned in a vertical plane at the forward end of the fuselage and mounted to rotate on a horizontal axis, a disc positioned above the fuselage, longitudinally and transversely disposed semicircular arms extended downwardly from the disc, said arms being crossed at a point spaced from the disc and positioned above the fuselage, rollers journaled on the fuselage and positioned to engage opposite surfaces of the arms to permit



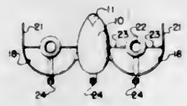
swinging of the disc from a point adjacent to the fuselage, means extended from the arms through the upper surface of the fuselage for adjusting the position of the disc, a propeller positioned in a horizontal plane and mounted to rotate on a vertical axis positioned above and journaled in said disc, and means rotating the propeller positioned above the disc from the interior of the fuselage.

2,611,555
JET-PROPELLED AIRCRAFT WITH FUSELAGE LIFTING CHANNELS
Willard R. Custer, Hagerstown, Md.
Application January 31, 1950, Serial No. 141,555
2 Claims. (Cl. 244—12)



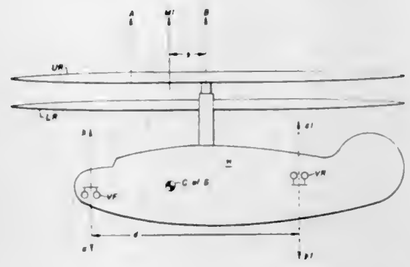
1. An aircraft comprising a fuselage equipped with wings, the opposite ends of the fuselage being semi-cylindrical and opening upwardly to provide fore and aft channels, and a jet motor mounted in the fuselage intermediate said channels and in communication with the latter.

2,611,556
JET-PROPELLED AIRCRAFT WITH LIFT CHANNELS
Willard R. Custer, Hagerstown, Md.
Application September 19, 1947, Serial No. 775,107
5 Claims. (Cl. 244—12)



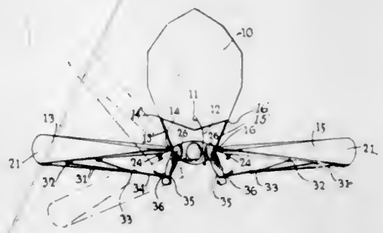
1. An aircraft comprising an upwardly-opening semi-cylindrical channel disposed in the direction of flight, and a jet motor mounted in the channel coaxial therewith.

2,611,557
HELICOPTER ROTOR VIBRATION REDUCING MEANS
Allen F. Donovan, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application June 8, 1948, Serial No. 31,695
8 Claims. (Cl. 244—17.11)



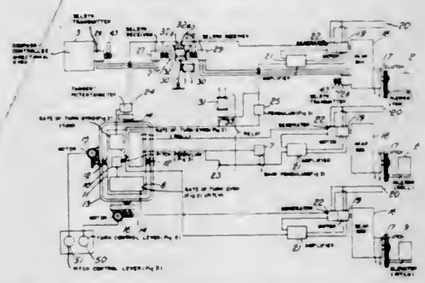
1. In an aircraft, a fuselage, a two-bladed lift rotor for the support of said fuselage, power means for driving said lift rotor on an axis of rotation of said rotor spaced from the center of gravity of the aircraft thereby subjecting said fuselage to oscillatory couples, vibration producing means including oppositely rotating weights having a rotational axis disposed within said fuselage within the plane of the said lift rotor axis and the center of gravity of the aircraft, and drive means for actuating said vibration producing means at a speed of rotation of twice the speed of rotation of said lift rotor, the rotation of said weights being so phased as to produce couples which counter-balance the oscillatory couples to which said fuselage is subjected by said rotor.

2,611,558
FLAPPING WING FLIER FOR INDIVIDUAL FLYING
Maria Mackiewicz, New York, N. Y.
Application June 10, 1950, Serial No. 167,353
5 Claims. (Cl. 244—28)



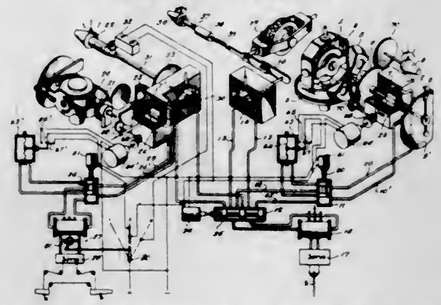
1. A flying device, comprising a gas bag having a passenger lifting effect, a pair of wings each having a straight inner edge and a curved outer edge, means for connecting said wings, to the bottom of the gas bag including hinges at the inner edges of said wings, straps for securing the body of a passenger to the connection between the wings and the gas bag, radial operating cords connected with the outer edges of the wings, and means for connecting the arms of the passenger to the radial operating cords to enable the passenger to shift said wings.

2,611,559
AUTOMATIC CONTROL SYSTEM
Frederick William Meredith, London, England, assignor to S. Smith & Sons (England) Limited, London, England, a British company
Application April 1, 1946, Serial No. 658,614
In Great Britain March 9, 1945
7 Claims. (Cl. 244—77)



2. An automatic control system for aircraft having a rudder for control in yaw and ailerons for control in roll, said system comprising a rate-of-yaw device and a rate-of-roll device mounted on a platform pivoted on the aircraft about the roll axis and tiltable at will about said roll axis, means for controlling the ailerons from said rate-of-roll device to stabilize the aircraft in roll, a servo-motor operating the rudder and controlled in accordance with the rate-of-yaw detected by said rate-of-yaw device to stabilize the aircraft in yaw, a tangent potentiometer operated by the banking movement of the platform and producing a signal proportional to the tangent of the angle of bank of the platform, means for controlling said servo-motor in accordance also with said signal to effect a change of course, a heading direction sensitive device, a Selsyn receiver, the voltage distribution in the stator windings of which varies with variations of the heading of the aircraft, means for controlling said servo-motor in accordance also with the voltage induced in the rotor windings of said receiver, means for locking the rotor when the aircraft is to be maintained on a datum course determined by the position of said rotor and for short-circuiting the rotor winding and for allowing it to rotate freely and follow variations of the heading of the aircraft when the said platform is tilted in bank to effect a change of course.

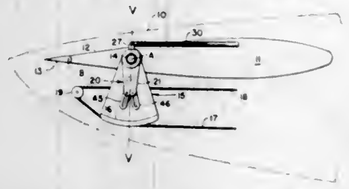
2,611,560
AUTOMATIC PILOT FOR AIRCRAFT
William M. Harcum, Garden City, and Gifford Bull, Ithaca, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application July 8, 1944, Serial No. 543,992
8 Claims. (Cl. 244—78)



1. Means for securing correctly banked turns in an automatic pilot for aircraft including atti-

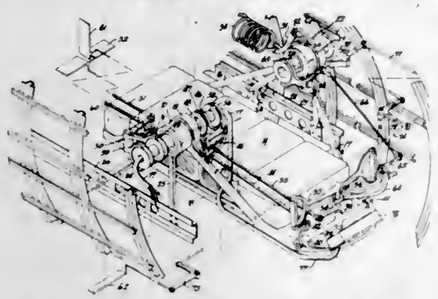
tude maintaining means for controlling the bank, and direction maintaining means and a rate-of-turn gyroscope for controlling the course, comprising a controller for biasing the bank signals from the attitude maintaining means to cause a bank followed by a turn, a pendulum, and means also operated from said controller for severing the control of course from said direction maintaining means and placing the same under the control of said pendulum and rate-of-turn gyroscope.

2,611,561
CENTERING MECHANISM FOR AIRCRAFT CONTROLS
La Verne E. May, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation
Application April 20, 1948, Serial No. 22,109
17 Claims. (Cl. 244—83)



1. Mechanism for centering a movable pivotally mounted member with a normally fixed member mounted on the same pivot, comprising an angularly disposed pair of slotted links apertured for a common pivot at their converging ends and having their slotted ends diverging, a spring-pressed pin mounted upon one of said members and forming the common pivot of said links and a pair of pivots fixed to the other said member engaging the slotted portion of said links for resiliently centering said fixed and movable members from positions of a limited departure of said movable member from its neutral position.

2,611,562
BODY SUPPORTING MECHANISM FOR OCCUPANTS OF HIGH-SPEED CONVEYANCES
William Exton, Jr., New York, N. Y.
Application June 19, 1948, Serial No. 34,076
4 Claims. (Cl. 244—83)



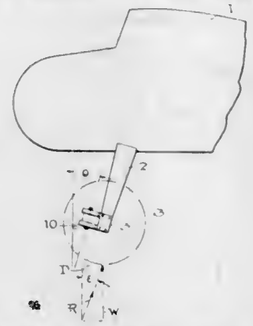
1. A support for the pilot of aircraft comprising, a normally horizontal pallet adapted to support the pilot's body in prone position, means suspending said pallet from an axis fixed with relation to said aircraft, said axis being at right angles to the normal direction of flight and positioned above the combined center of gravity of said pallet and its occupant and its suspending structure, said pallet being rotatable about said axis in response to inertia force, and means for restraining movement of said pallet in response to inertia force below a predetermined amount.

2,611,563
AIRPLANE CONTROL SYSTEM
Frederick W. Ross, Dearborn, Mich.
Application November 28, 1947, Serial No. 788,341
2 Claims. (Cl. 244—83)



1. In an aircraft, having a wing mounted thereon, an aerodynamic control system for the aircraft comprising a roll element mounted on the wing, a yaw element, and a pitch element, a control member pivotally mounted for rotation about two non-parallel axes, means interconnecting the control member to the pitch element to provide deflection thereof upon actuation of the control member about the first of its axes of rotation, means interconnecting the roll and yaw elements, said last mentioned means including a rockable member pivoted on fixed aircraft structure on an axis spaced with respect to the control member and in a plane perpendicular to said first axis, and means connected at one end to the control member at a point spaced from its first axis of rotation and at its other end to the rockable member at a point spaced laterally from said perpendicular plane.

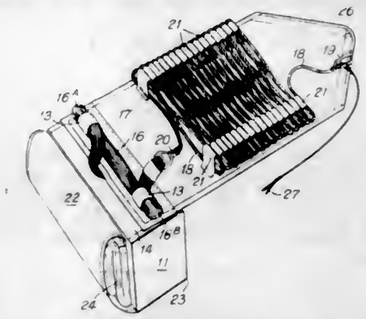
2,611,564
CROSS WIND UNDERCARRIAGE
John Harlin Geisse, Washington, D. C.
Application June 5, 1951, Serial No. 230,061
8 Claims. (Cl. 244—103)



1. A cross wind undercarriage for airplanes including laterally spaced main ground engaging wheels, caster spindles and caster spindle bearings attaching said wheels to the airplane for casterable action thereon, said caster spindles lying in vertical planes adjacent to and inward from said wheels and inclined upward and backward in said planes, and stop means preventing said wheels from toeing in.

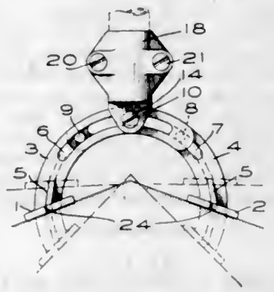
2,611,565
PARACHUTE APPARATUS
John Raymond Cuthbert Quilter, Woking, England
Application October 17, 1951, Serial No. 251,721
In Great Britain October 3, 1950
12 Claims. (Cl. 244—113)

1. Parachute apparatus comprising a parachute canopy having rigging lines secured thereto, a cable having one extremity attached to said rigging lines, a container for said canopy, a flap attached to said container, means for retaining said cable in stowed condition upon said flap, said



flap with said cable stowed thereon being rollable around said container, and means for locking said flap rolled up around said container with the other extremity of said cable projecting beyond said flap.

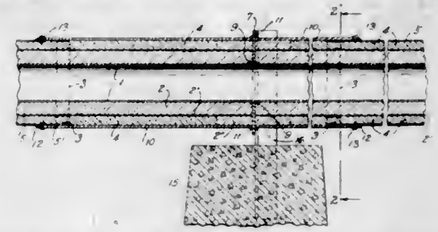
2,611,566
ADJUSTABLE BASE FOR ANTENNA MASTS
Harold O. Landis, Reading, Pa., assignor to Berks Electronic Service, Inc., Reading, Pa., a corporation of Pennsylvania
Application December 12, 1950, Serial No. 200,341
5 Claims. (Cl. 248—44)



1. An adjustable base for poles comprising a pair of base plates, an arcuately shaped bracket projecting from each of said base plates, means for slidably connecting said brackets for effecting angular adjustment of said base plates relative to each other, and pole supporting means arranged on said brackets and jointly supported by said connecting means.

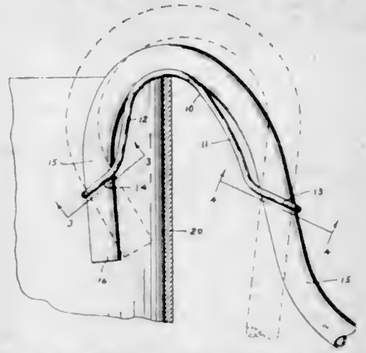
2,611,567
INSULATED PIPE ANCHOR
Thomas F. M. Williamson, San Francisco, Calif., assignor to Alexander H. Isenberg, Woodside, Calif.
Application March 18, 1946, Serial No. 655,294
3 Claims. (Cl. 248—49)

1. In a conduit pipe assembly having a conduit unit including an exteriorly thermally insulated metal conducting pipe enclosed in spaced relation within a relatively thin sheet metal tubular outer casing and a jacket of moisture impervious material therebetween, an anchorage means comprising a metal plate having an opening therethrough through which the conducting pipe passes, said plate being secured to said conveyor pipe to prevent relative movement therebetween and said plate extending transversely of the conduit radially outwardly beyond the diameter of the casing, a pair of relatively short sleeves of thicker body material than said casing, each of which at one of its ends abuts the respective opposite sides of the plate and at its other end snugly telescopes an adjacent end of the casing, said



sleeves being imperviously sealed to the plate at their opposed confronting ends and sealed at their opposite ends to the adjacent casing, the moisture impervious material terminating in spaced relation to said anchor plate, and thermal insulating material in the space between the anchor plate and the adjacent terminal end of the moisture impervious material.

2,611,568
HOSE END HOLDER
Clarence B. Yoder, Indianapolis, Ind.
Application May 24, 1950, Serial No. 163,967
2 Claims. (Cl. 248—79)

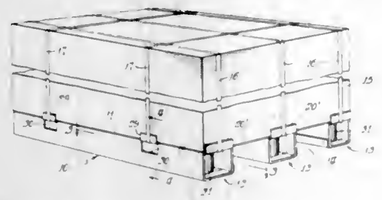


1. A device for holding a resilient hose over an edge of a container comprising a one piece, inverted, generally U-shaped wire with downwardly extending legs, each leg terminated in a lower end portion turned laterally outwardly around from and back toward the leg into an approximately circular shape to define a loop forming an eye of a size to receive loosely therethrough a hose, each of said loops lying in a plane inclined upwardly toward its leg from a lower downmost loop side, said planes being oppositely inclined to have said downmost side below the juncture of the loop with its leg.

2,611,569
PAPERBOARD PALLET
Willits E. Coleman, Norristown, and James P. H. Leavitt, Wayne, Pa., assignors to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application March 26, 1948, Serial No. 17,308
3 Claims. (Cl. 248—120)

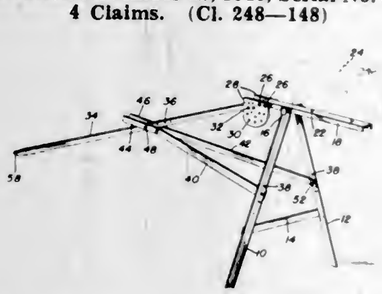
1. In a paperboard pallet for use with fork lift trucks, a load receiving platform, tubular mem-

bers of substantially rectangular cross section secured to the under face of said platform in parallel spaced relation and collapsible against the under face of said platform, a plurality of load supporting members fitting within the respective tubular members spaced apart lengthwise thereof and restraining the latter against collapse under load, said tubular members having means at their ends restraining the end ones



of said load supporting members against movement outward of said tubular members, and spacing and reinforcing members fitting within the respective tubular members and between the load supporting members therein effective for restraining said load supporting members against relative movement lengthwise of said tubular members while also supplementing said load supporting members in supporting the load and restraining said tubular members against collapse.

2,611,570
MAILBOX STAND
Joseph J. Kroll, Royalton, Minn.
Application November 12, 1948, Serial No. 59,528
4 Claims. (Cl. 248—148)



1. A mail box stand comprising a pair of standards, a mail box supporting bar pivoted intermediate its ends to said standards, a pair of plate members carried at one end of said bar, an elongated bar, means for adjustably securing one end of said elongated bar between said plate members, and adjustable means interconnecting said standards and said elongated bar to prevent tilting of the entire stand, said first-named means including spaced, aligned pairs of apertures in said plate members, and pairs of removable bolts extending through said elongated bar and selected pairs of said apertures.

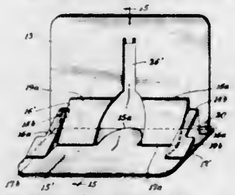
2,611,571
LAMP STAND AND TRIPOD
Harold M. Breakiron, Washington, D. C.
Application November 23, 1948, Serial No. 61,547
3 Claims. (Cl. 248—157)

1. In a collapsible support a disk shaped block having a radially extending slot opening through the side thereof, a hinge member mounted in the disk shaped block for swinging movement about an axis which intersects the slot and lies perpendicular to the axis of the block, a standard carried by the hinge member for movement in an arcuate path from a position on one side of the block in which it lies in axial alignment with the axis of the block to a position adjacent the other side of the block in which it lies



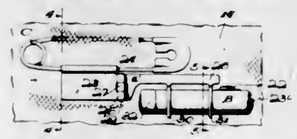
parallel to the axis of the block, ball elements carried by the block for movement about axes which lie parallel with the axis of the block, and legs carried by the ball elements for movement in arcuate paths toward and away from the axis of the block.

2,611,572
DISPLAY DEVICE
John La Rocca, Valley Stream, N. Y., assignor to Pioneer Mounting & Finishing Co., Inc., New York, N. Y., a corporation of New York
Application June 22, 1948, Serial No. 34,413
2 Claims. (Cl. 248—174)



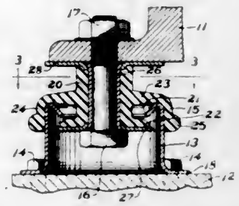
1. A display stand comprising a base and a panel to stand upright on the base, connector sections hinged to the panel and to the base at each side of the panel and base, said panel having an opening between the said connector sections, a connector strip hinged to said base and to said panel at the outer side of each connector section, and a tongue rigid with the panel and extending from the lower part thereof adjacent each connector strip to hold the panel upright on said base.

2,611,573
LIGHT SUPPORTING MEANS
John C. Young, Pittsburgh, Pa.
Application January 17, 1946, Serial No. 641,694
3 Claims. (Cl. 248—285)



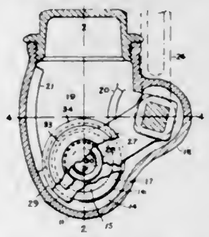
1. Light supporting means for hand bags and the like comprising a substantially flat rectangularly shaped plate-like frame and a conventional safety pin, the latter having opposed substantially parallel arms, the said frame having a turned-over portion at its top edge in the form of a sleeve within which one of the arms of the safety pin is disposed so as to slidably and swingably mount the frame on the pin, the frame being dependingly supported by the pin and having a hinge connection at one side edge thereof with an elongated flashlight-supporting arm, and the said arm having at least one ring thereon adapted to surround a portion of a flash light to detachably secure the same thereon, whereby the frame may be swingably and slidably moved on the arm of the pin and the flashlight-supporting arm be moved in an arc relative to said frame.

2,611,574
RESILIENT MOUNTING
Robert E. Davies and Herbert H. Fink, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application January 17, 1948, Serial No. 2,884
6 Claims. (Cl. 248—358)



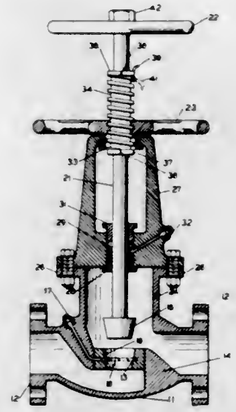
1. A resilient mounting for connecting supported and supporting structures comprising an annular member for mounting on one of said structures, said annular member having a wall terminating in an annular margin bent directly inwardly from said wall providing a rounded edge seat at said wall, a body of resilient rubber-like material having a central portion for connecting to the other of said structures and a portion extending outwardly therefrom to overlie said inwardly bent margin and rounded edge seat and embrace the outer face of said wall, and a clamping member at the outer surface of said body for urging said body against said annular member.

2,611,575
QUICK-ACTING GATE VALVE
James H. Webb, Montreal West, Quebec, Canada, assignor, by mesne assignments, to Jenkins Bros., Bridgeport, Conn., a corporation of New Jersey
Application November 14, 1947, Serial No. 786,030
In Canada February 28, 1938
Section 1, Public Law 690, August 8, 1946
Patent expires February 28, 1958
8 Claims. (Cl. 251—18)



1. A quick acting gate valve comprising a body having axially aligned inlet and outlet passages and a pair of spaced transverse walls between the inlet and outlet formed with flow passages and annular seat portions surrounding said flow passages; a gate having seat engaging surfaces adapted to co-operate with said seat portions, a spindle at one side of the gate; operative connection between said spindle and the gate adapted to move the gate in an arcuate path into and out of register with the body seats; and guide ribs in the body curved in conformity with the path of gate movement and adapted to be engaged by marginal portions of the gate disposed outwardly of the seat engaging surfaces during substantially the entire opening and closing movements of the gate to hold the gate seat surfaces out of contact with any of the interior surface of the body, except when the valve is substantially fully closed.

2,611,576
POSITIVE CLOSURE PLUG VALVE
Joseph E. Storment, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 23, 1945, Serial No. 589,767
4 Claims. (Cl. 251—20)

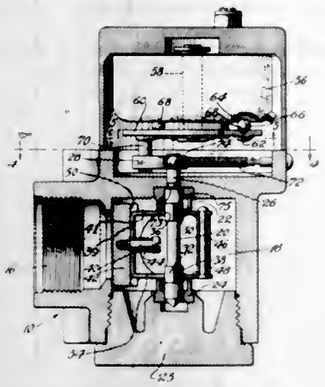


1. A lubricated valve comprising in combination a body having a conduit therethrough, a valve seat in said conduit, a valve plug disposed in said conduit for movement to and from said seat whereby fluid flow through said conduit is controlled, a housing bonnet attached to said body, means to supply lubricant to said seat, means to move said plug to and from said seat comprising a valve stem attached at one end to said plug, an elongated, exteriorly threaded hollow member surrounding said valve stem and being rotatably free and longitudinally fixed as regards movements on said valve stem, a manually operated means for rotatably fixing said elongated hollow member to said valve stem and a manually operated rotatable means in threaded relation to said elongated, exteriorly threaded hollow member and rotatably free with respect to said bonnet whereby upon rotation of said manually operated rotatable means said valve plug moves to or from said seat without rotation; means for rotating said plug comprising a second manually operated rotatable means rigidly fixed to the valve stem at the opposite end from said plug whereby upon rotation of said second manually operated rotatable means said plug rotates.

2,611,577
VALVE ASSEMBLY
Harry C. Grant, Jr., Ridgewood, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey
Application December 2, 1947, Serial No. 789,213
4 Claims. (Cl. 251—102)

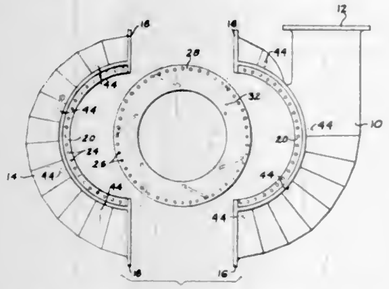
1. A valve assembly for controlling the flow of a fluid pressure medium, comprising a body having a valve chamber formed with an inlet and formed with a wall portion provided with a pair of spaced outlet ports, a valve member in said chamber having a surface facing said wall portion, a rotor in said chamber connected to said valve member for rotating said valve member to position the same to selectively close said outlet ports, and yieldable means for maintaining said valve member surface out of engagement with said chamber wall portion adapted to be

rendered ineffective by pressure medium acting on said valve member from within said valve



chamber whereby said valve member surface is caused to engage said wall portion.

2,611,578
SECTIONALIZED CASE FOR TURBINES AND THE LIKE
George A. Biggs, Springfield, Ohio, assignor to The James Leffel & Co., Springfield, Ohio
Application October 4, 1947, Serial No. 777,984
2 Claims. (Cl. 253—120)



1. In a hydraulic turbine construction comprising a tubular casing and speed ring member having a fluid inlet and outlet for controlling the flow of liquid to the runner of a turbine, an improved sectionalized structure readily assembled or disassembled which consists of a casing having a first part, a second part and a third part, said first part comprising a plurality of intercommunicating frusto-conical tubular sections united together and having arcuate inner sides, an inlet connection to one of said sections, said plurality of tubular sections being secured along their arcuate inner sides to a pair of spaced semi-circular rim members, said first part forming a unitary semi-circular structure, said second part comprising a semi-circular tubular casing comprising a plurality of intercommunicating frusto-conical sections united together and having arcuate inner sides attached to a pair of spaced semi-circular rim members which are complementary to said rim members on said first part, flanges on the abutting ends of said rim members for fitting said first and second part members together to form a spiral shaped tubular casing, said third part comprising a speed ring member having spaced annular plate members which are united together by circumferentially spaced stay vanes, said spaced plates on said speed ring having means around the periphery thereof for fastening the same to the said rim members, and said parts being secured together to form a unitary spiral shaped hydraulic turbine structure.

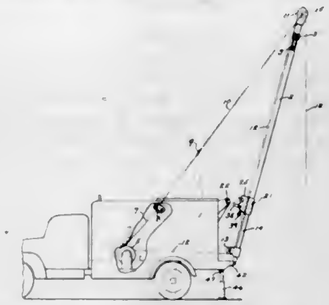
2,611,579
VEHICLE LIFT
William Guzey, Jr., Van Nuys, John Curlett, North Hollywood, and James F. McKiney, Bell Gardens, Calif., assignors, by direct and mesne assignments, to Miller Manufacturing Co. Inc., Los Angeles, Calif., a corporation of California
Application May 28, 1951, Serial No. 228,712
16 Claims. (Cl. 254—8)



1. In a portable vehicle lift, the combination of: a frame comprising a pair of horizontal box-section frame members and upstanding interconnected back members at one end of said frame members; a pair of spaced box-section lifting arms pivoted to said back members adjacent to the top thereof and extending forwardly between said horizontal frame members, each lifting arm including a forwardly projecting lifting extension pivoted to the forward end of said arm; power means, including a piston rod, pivoted to said frame and operable between said arms; a transverse cross-member connected to said rod; and means connecting said cross-member to said arms and to said lifting extensions for initially lifting said extensions and for then lifting said arms; said means comprising a member fixed at each end of said cross-member and pivoted to the adjacent arm about an axis spaced from the axis of the cross-member, an upwardly and forwardly directed curved slot in said arm, a pin carried by said fixed member and slidably received in said arcuate slot for abutment with the forward end wall of said slot, and a link pivotally connected to said pin and to said extension rearwardly of and below the pivotal connection of said extension to said arm.

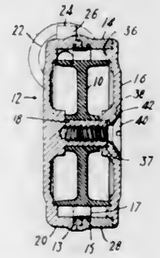
2,611,580
POLE DERRICK
Herman J. Troche, Fairview Village, and James Howard Holan, Rocky River, Ohio, assignors to J. H. Holan Corporation, Cleveland, Ohio, a corporation of Ohio
Application September 13, 1949, Serial No. 115,420
4 Claims. (Cl. 254—139.1)

1. In a device of the character described, the combination with a vehicle body having rearwardly projecting ears and pintles removably mounted therein, of derrick legs apertured to receive the removable pintles for pivotal support from the body, said legs being provided above said pintles with a pivotally mounted clamp having spaced fingers, a pivot bar mountable upon said body and receivable between said fingers when said legs are in upright position to register the fingers with the pivot bar, one of the fingers being engageable with the pivot bar upon ap-



proaching the latter pivotally to swing the clamp to cause the other finger to engage the bar in a locking position, and a keeper for retaining the finger in locking position with the bar, the bar and fingers providing fulcrum means for erection and dismantling of the derrick legs.

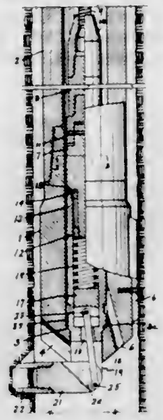
2,611,581
VARIABLE ANGLE CORNER PULLEY
Theodore N. Hannant, Cedar Grove, N. J., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application April 17, 1946, Serial No. 662,849
9 Claims. (Cl. 254—190)



2. In a pulley assembly, the combination of a pair of housing members each having an annular groove formed therein, a flanged ring having its flanges disposed in said grooves whereby to connect said members rotatably relatively to each other, a cable guide on each of said members, a pulley enclosed in said members, and a cover plate removably secured to one of said members, whereby to expose the pulley to facilitate threading a cable through said guides and about the pulley.

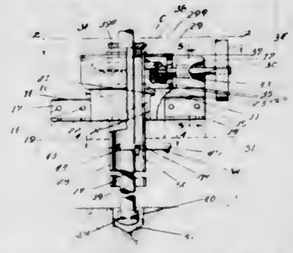
2,611,582
SIDE WALL CORING TOOL
Walter L. Church, Houston, Tex.
Application July 5, 1949, Serial No. 103,053
7 Claims. (Cl. 255—1.4)

1. A side wall coring tool including, a tubular guide having an inside seat and also having radial lower end seats, a cylinder adapted to be inserted into the guide and having an external seat to land on said inside seat, a sample retainer having a shank which is pivotally connected with the lower end of said cylinder, a piston in the cylinder, a piston rod connecting said piston with the pivoted end of the shank whereby, upon downward movement of the piston, the



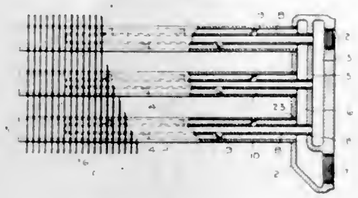
core retainer will be moved against the side wall of the bore hole.

2,611,583
ROTARY DRILL FOR DRILLING WELLS
William H. Ellis, Lovelaceville, Ky.
Application April 6, 1948, Serial No. 19,233
2 Claims. (Cl. 255—23)



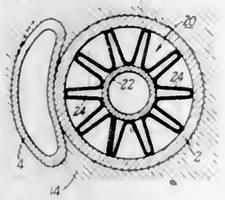
1. A rotary drill for drilling wells comprising an outer casing, means supporting the same vertically for rotation, a well pipe extending through the outer casing and supported for rotation therein, a drill bit mounted on the lower end of the well pipe, means for releasably and slidably connecting the casing and pipe with each other, means for rotating said outer casing, the means for rotatably supporting the outer casing including a bowl like gear housing provided with a central opening in its bottom and an upwardly extending sleeve defining said opening and adapted to receive the outer casing rotatably therein, a fixed body provided with a vertical bore having a counterbore at its upper end, a bushing having the same inside diameter as the sleeve and fitting snugly into the bore, a flange on the upper end of the bushing fitting snugly into the counterbore, the gear housing being rigidly mounted on top of the body so that the sleeve and the bushing are arranged coaxially with each other, a bevel gear rigidly mounted on the upper portion of the outer casing within the gear housing and rotatably resting on the upper edge of the sleeve, a horizontal bearing formed on the body, a shaft rotatably mounted in said bearing, means for applying rotary power to the shaft, the inner end portion of the shaft projecting rotatably through the wall of the gear housing, and a bevel pinion rigidly mounted on said inner end portion of the shaft and meshing with the bevel gear.

2,611,584
HEAT EXCHANGER
Otto A. Labus, La Crosse, Wis., assignor to The Trane Company, La Crosse, Wis.
Application March 22, 1947, Serial No. 736,472
4 Claims. (Cl. 257—50)



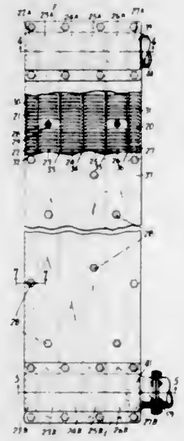
1. A heat exchanger comprising a condensate chamber, a gas chamber, a series of condensing tubes communicating at one end with said condensate chamber, a series of gas distributing tubes communicating at one end with said gas chamber and being positioned within said condensing tubes and forming a passageway therebetween, the tubes of one of said series being open at their extremities which are remote from said gas chamber the tubes of the other of said series being closed at their ends which are remote from said gas chamber, a plurality of orifices spaced along the gas distributing tubes, said orifices having discharge openings facing substantially in the direction of the length of the tubes and in the direction of the condensate chamber whereby the gas is discharged from the distributor tubes substantially in the direction of the length of the tubes and in the direction of the condensate chamber.

2,611,585
HEAT EXCHANGER
Cecil Boling, Brewster, N. Y., assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y., a corporation of New York
Application March 30, 1948, Serial No. 17,899
8 Claims. (Cl. 257—241)



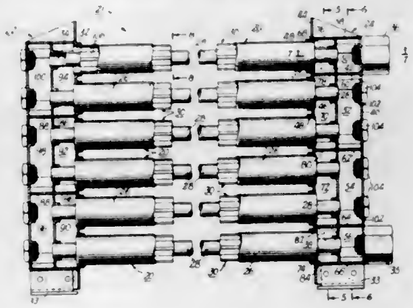
5. In heat exchange apparatus of the type wherein a fluid is subjected to a heat transfer operation, the combination of, a pair of concentrically positioned rigid members defining a substantially annular chamber for the flow of the fluid to be subjected to a heat transfer operation, an annular metallic fin assembly within said chamber and comprising sheet metal corrugations each of which is substantially straight and is non-distortable and extends longitudinally of said chamber bridging the space between said rigid members and is connected to the next adjacent corrugation by a trough-like connecting portion which presents a straight portion in contact with a surface of one of said members, the distance between said rigid members being such that each of said trough-like connecting portions is distorted and each of said trough-like connecting portions is subjected to substantial compressive forces which are applied at the inner and outer peripheries of said fin assembly by said rigid members, a tube formed into a spiral and closely hugging the outer surface of the larger of said rigid members, and a block of aluminum substantially enclosing said larger rigid member and said tube.

2,611,586
HEAT EXCHANGER
Samuel Cornette Collins, Watertown, Mass., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 17, 1948, Serial No. 2,877
3 Claims. (Cl. 257—245)



3. In a heat exchanger, a plurality of relatively thin plates arranged side-by-side and heavier outside plates, and partition elements cooperating with said plates to form a plurality of long, relatively wide and relatively shallow passages separated from each other at their edges by said partition elements, each of said relatively thin plates having a series of long narrow slots formed through it and arranged in rows, the length of said slots being nearly equal to the width of said passages, all of said plates having larger openings near both ends for conducting fluid with respect to said passages and each of said thin plates having one such opening at each end of each row of slots, a first header adjacent one end of the stacked plates on one side of the stack and having a wall with spaced openings communicating with alternate passages through alternate ones of said larger openings, a second header adjacent the same end of the stack and having a wall with spaced openings communicating with passages intermediate the alternate passages through larger openings intermediate said alternate larger openings, a third header adjacent the opposite end of the stacked plates and having a wall with spaced openings communicating with said intermediate passages through other alternate ones of said larger openings, and a fourth header at the same end as the third-named header and having a wall with spaced openings communicating with the alternate passages through larger openings intermediate said other alternate larger openings, whereby a fluid may flow through the first-named header and the fourth-named header and pass through the alternate passages, and still another fluid may flow through the second-named header and the third-named header and pass through the intermediate passages.

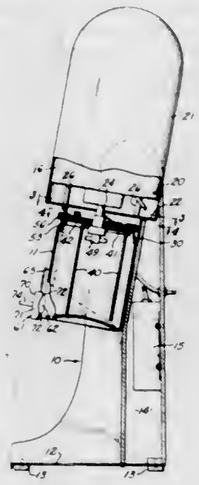
2,611,587
HEAT EXCHANGER
Cecil Boling, Brewster, N. Y., assignor to The Heat-X-Changer Co., Inc., Brewster, N. Y., a corporation of New York
Application July 27, 1950, Serial No. 176,128
5 Claims. (Cl. 257—247)



1. In heat exchange apparatus of the type wherein a fluid is subjected to a heat transfer operation, the combination of, a pair of concentrically positioned rigid members defining a substantially annular chamber for the flow of the fluid to be subjected to a heat transfer operation, and an annular metallic fin assembly within said chamber and comprising sheet metal corrugations each of which is substantially straight and is non-distortable and extends longitudinally of said chamber bridging the space between said rigid members and is connected to the next adjacent corrugation by a trough-like connecting portion which presents a straight portion in contact with a surface of one of said members, said trough-like connecting portions providing the heat transfer contacts with the surfaces of said rigid members at the inner and outer peripheries of said annular chamber, said trough-like connecting portions at said outer periphery being of substantially greater radius than those at said inner periphery, the distance between said rigid members being such that each of said trough-like connecting portions is distorted and each of said trough-like connecting portions is subjected to substantial compressive forces which are applied at the inner and outer peripheries of said fin assembly by said rigid members.

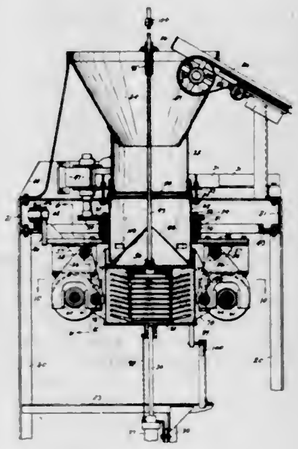
2,611,588
MIXER FOR FROZEN DESSERTS
Walter C. Kelley and Herbert C. Phillips, Los Angeles, Calif., assignors to Minick's Ice Cream Co., Inc., Los Angeles, Calif., a corporation of California
Application November 2, 1951, Serial No. 254,462
9 Claims. (Cl. 259—44)

1. In an apparatus of the character described having a motor mounted on a standard with the drive shaft of the motor directed downward, the combination therewith of: a container for material to be processed; means to releasably support said container in an operating position under said motor; agitator means adapted for mounting on said shaft to process material in said container; a cover for said container, said cover having a central aperture to surround said shaft; yielding means to urge said cover downward against said agitator means in the absence of said container, said support means positioning said container at sufficient elevation for contact with said cover and to lift said cover above said agitator means; and manually operable means to releasably hold said agitator means on said shaft whereby releasing said manually operable means



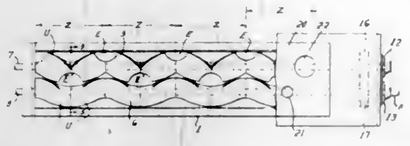
releases both said agitator and said cover for removal from the apparatus.

2,611,589
APPARATUS FOR COMPACTING A REFRACTORY MEDIUM IN A BUNG OF CHINAWARE
Richard Henry Pass and Walter A. Johnson, Syracuse, N. Y., assignors to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application December 20, 1950, Serial No. 201,822
9 Claims. (Cl. 259—72)



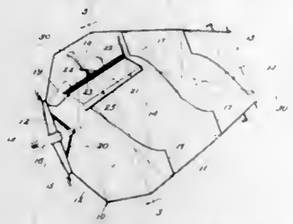
1. Apparatus for compacting a loose refractory clay medium between the rims of pieces of green chinaware arranged in a bung comprising a suitable frame, a support for the bung, a non-rotatable casing encircling said bung in spaced relation thereto to receive a quantity of said refractory clay between the bung and the casing, means operable to effect opposed reciprocation of opposite side portions of said casing radially toward and from the axis of said bung, and means operable to effect rotation of said casing about the axis of said bung during such reciprocation.

2,611,590
METHOD AND APPARATUS FOR STAGE KNEADING
Raymond H. Jebens, Wellsville, Ohio, assignor to The Patterson Foundry & Machine Co., East Liverpool, Ohio, a corporation of Ohio
Application October 14, 1950, Serial No. 190,095
12 Claims. (Cl. 259—104)



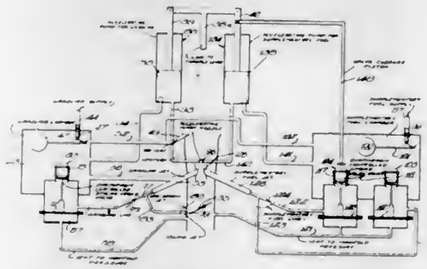
1. The method of kneading material in an integrated continuous operation which comprises kneading the material in several adjoining zones each of which comprise two stages in which the material is kneaded in a succession of back and forth movements in each zone, the material remaining in each stage of each zone and continuing to undergo such kneading therein unless other material be added to the operation to effect its movement from one stage to an adjoining stage, and from one zone to another zone, and moving the material progressively from stage to stage and zone to zone by adding fresh feed material at one stage and removing it at another stage during the kneading operation.

2,611,591
INCLINED AXIS ROTATABLE DRUM CONCRETE MIXING APPARATUS
Charles I. Longenecker, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 7, 1950, Serial No. 166,639
3 Claims. (Cl. 259—175)



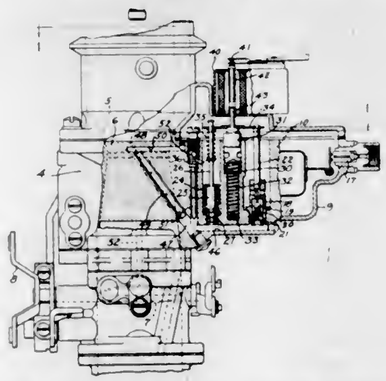
1. In concrete mixing apparatus of the class described, a drum comprising a perimetric wall surrounding a longitudinal axis of rotation which is inclined to the horizontal, and a head closing the lower end of said drum, the higher end of the drum being provided with a material-transfer opening; helically arranged mixing and conveying blades secured to and extending inwardly from said perimetric wall, adapted through rotation of the drum in one direction about said axis to move concrete materials in the drum from the lower end portion thereof upwardly toward said opening, and through rotation of the drum in the opposite direction to move such materials downwardly into said lower end portion and pile them therein to the full diameter of the drum, whereby intermixing of such materials is prevented and a compacted mass of unmixed materials may be formed and maintained adjacent the head; and means for dislodging and disintegrating such compacted mass, comprising a supplemental blade member mounted within the drum adjacent the head and so disposed with respect to the drum axis as to lift portions of the materials when the drum is rotated in the first mentioned direction and discharge them in a longitudinal direction opposite to that in which the mass of materials is being moved by the helical mixing blades as a result of such rotation, whereby to impinge said lifted portions against the mass of unmixed materials compacted against the drum head.

2,611,592
DUAL CARBURETOR
David E. Anderson, Shaker Heights, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 27, 1948, Serial No. 56,793
6 Claims. (Cl. 261—18)



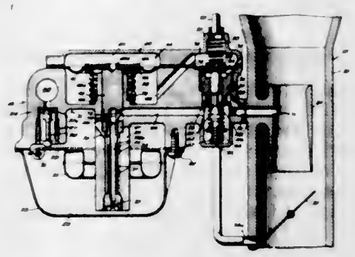
6. In a dual carburetor assembly including a plurality of fuel chambers and a throttle valve, the improvement comprising first and second valves communicating with one of said chambers and vented to the engine intake manifold end of the carburetor, said valves being biased to open position, said first valve closing before said second valve as manifold vacuum increases, said second valve opening before said first valve as manifold vacuum decreases, and closure means connected to said throttle valve for closing said second valve at a predetermined open position of said throttle valve.

2,611,593
TWO-FUEL CARBURETOR
Leonard D. Boyce, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application February 12, 1949, Serial No. 76,007
4 Claims. (Cl. 261—18)



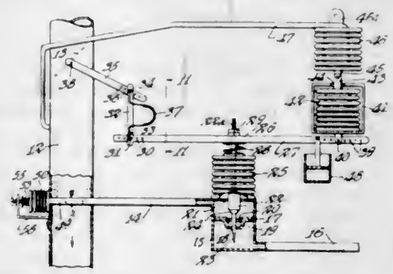
1. In a carburetor for an internal combustion engine, an intake conduit, a main fuel supply passage and a step-up fuel supply passage leading thereinto, a valve controlling each of said passages, and means moving said valves in a direction to open and close the passages respectively, said means including an actuator, a solenoid adjacent said actuator, the solenoid armature being operatively connected to said actuator, a source of electric energy having a connecting circuit to said solenoid, a control switch in said circuit, and an operative connection between said means and said switch for closing said switch to energize said solenoid, responsive to movement of said means in one direction.

2,611,594
SUPPLEMENTARY FLUID FEED DEVICE WITH AUTOMATIC TANDEM METERING VALVES
David E. Anderson, Shaker Heights, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 27, 1948, Serial No. 56,792
15 Claims. (Cl. 261—41)



13. A feed device for an internal combustion engine which comprises casing means having a liquids chamber and a discharge passageway communicating with said chamber, fixed orifice means in said discharge passageway, air bleed means in said discharge passageway for admixing air with liquid flowing therethrough from said chamber, at least a pair of valves controlling flow from said chamber through said discharge passageway, means responsive to intake manifold pressure for closing one of said valves with manifold pressure decreased to a predetermined value, and means responsive to intake manifold pressure for closing another of said valves with manifold pressure decreased to a value less than said predetermined value.

2,611,595
CARBURETOR
Clifford E. Streed, Minneapolis, Minn.
Application March 15, 1947, Serial No. 734,991
3 Claims. (Cl. 261—50)



1. A fuel and air mixing and supply mechanism for internal combustion engines comprising a fuel mixture intake conduit defining an unrestricted passage leading to the engine and having an air intake opening, a throttle valve controlling the flow of air from said air intake opening through said intake conduit, means for introducing liquid fuel into said intake conduit under pressure, a liquid fuel valve controlling the flow through said liquid fuel introducing means, an operating lever for said liquid fuel valve, means connecting one arm of said operating lever to said throttle valve and exerting force on that arm of the lever to tend to open and close said liquid fuel valve as said throttle valve is respectively opened and closed, and a pressure responsive unit responsive to pressure changes in said intake conduit at the engine side of said throttle valve and acting on the other arm of said lever and tending to open and close said liquid fuel valve as the suction in said intake conduit respectively increases and decreases, and means connecting said operating lever to said liquid fuel valve between said two arms to transmit the resultant of the forces exerted by said throttle valve connecting means and said pressure responsive unit on said lever to the liquid fuel valve.

2,611,596
TRAY FOR USE IN REFINING TOWERS
Hans C. Glitsch, Dallas, Tex., assignor to Glitsch Engineering Company, Dallas, Tex., a partnership
Application July 23, 1948, Serial No. 40,230
4 Claims. (Cl. 261—114)

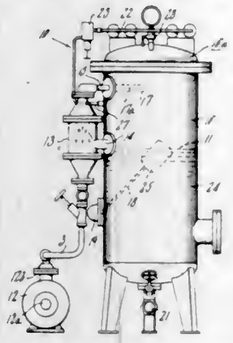


1. A refining vessel tray including, a deck having a plurality of elongate sections supported at their ends and disposed within their longitudinal edge portions in adjacent substantially parallel relationship, at least one of the longitudinal edge portions of at least one of the sections being offset downwardly, the longitudinal edge portion of an adjacent section resting upon and supported by said offset edge portion in coplanar relationship, means carried by said offset edge portion in transversely spaced relation to the supported edge portion and overlying the latter edge portion for frictionally fastening together the edge portions, the offset edge portion being bent downwardly to form a supporting flange for said edge portions, said deck section and offset edge portion and supporting flange being formed integrally from one sheet to provide a one-piece structure, said offset edge portion having openings therein, the fastening means including studs in the openings, washers on the studs beneath the deck sections, and a clamping bar at and secured to one side of each stud and extending at a right angle to the longitudinal axis thereof, the bar being spaced from the washer a distance approximately equal to the thickness of the adjacent section.

2,611,597
APPARATUS FOR CARBONATION OF A LIQUID
Jacques Zucker, Zurich, Switzerland
Application November 12, 1948, Serial No. 59,685
In Switzerland August 19, 1948
1 Claim. (Cl. 261—115)

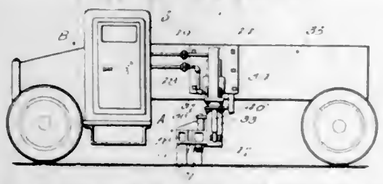
A device for carbonating liquid comprising pump means for said liquid, a settling tank, in-

jector means for said liquid and arranged outside said tank, conduit means leading from said pump means to said injector means whereby liquid is supplied under pressure through said injector means, first pipe means connecting said injector means with the interior of said tank at a predetermined level thereof, second pipe means connecting said injector means with said tank above said injector means and above said predetermined level, whereby liquid supplied to said injector means sucks through said first pipe means gas above said predetermined level from within said tank therewithout into said injector means to thereby obtain a preimpregnation of said liquid with said gas, atomizing nozzle means



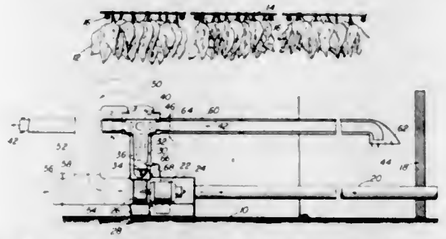
connected to said second pipe means and located within said tank, whereby said preimpregnated liquid from said injector means is subjected to atomization within said nozzle means to thereby obtain an enlargement of the surface of the preimpregnated liquid and freeing of air from the latter, respective release means on the top of said tank and adjacent the bottom thereof for discharge air from said tank and for discharge carbonated liquid therefrom, said liquid extending within said tank up to said predetermined level, and float means for controlling the operation of said pump and substantially maintaining said carbonated liquid within said tank at said predetermined level.

2,611,598
ROAD MAINTENANCE MACHINE
Loyd H. Adams, Waverly, Iowa
Application June 1, 1949, Serial No. 96,591
7 Claims. (Cl. 262—8)



2. A road maintenance unit comprising a beam to be attached to a vehicle for raising and lowering relative thereto and disposed transversely of the line of travel of the same, a plurality of elongated wide flat rectangular spaced rigid cutting blades with wide opposite side faces and each having an upper end fixedly secured on said beam at the under side thereof and depending therefrom, the lower end of each blade being flat and presenting a cutting edge throughout the width thereof, said blades being arranged relatively close together but having spaces therebetween in two spaced rows extending longitudinally of the beam with the blades of one row disposed at an oblique angle to the horizontal axis of the beam and in staggered relation to the blades of the other row, and the blades of the said other row being disposed at an opposite but substantially corresponding oblique angle to the blades in the said one row.

2,611,599
HEATER FOR ENCLOSED SPACES
Calvin D. MacCracken, New Rochelle, N. Y., assignor to Jet-Heet, Inc., New York, N. Y., a corporation of New York
Application May 18, 1948, Serial No. 27,762
4 Claims. (Cl. 263—19)

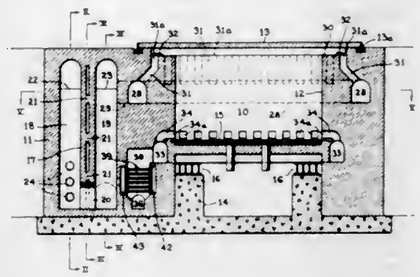


1. A heater for supplying hot air to an enclosed space within which said heater is located, comprising a cylindrical combustion chamber closed at one end and open at the other end and having in its cylindrical portion holes for admitting air, a casing surrounding said combustion chamber and spaced therefrom, a manifold directly connected to the open end of said combustion chamber to receive therefrom hot air and gaseous products of combustion, distributing pipes connected to and extending from said manifold and opening into said enclosed space to receive the hot air and gaseous products of combustion from said manifold and discharge same into said enclosed space, a casing surrounding and spaced from said manifold and communicating with the said casing which surrounds said combustion chamber, encasing pipes connected to and extending from the said casing which surrounds said manifold and surrounding and spaced from said distributing pipes, and a fan connected and arranged to supply air to the space within the said casing which surrounds said combustion chamber and to the holes in the combustion chamber and also to the space within the said casing which surrounds said manifold, a first air inlet to said fan comprising a pipe leading to said fan from outside said enclosed space, a motor located in said pipe substantially in line with the axis of said pipe and coupled to drive said fan, and a second air inlet to said fan communicating with said enclosed space to effect recirculation of heated air discharged from said distributing pipes into said enclosed space.

2,611,600
SOAKING PIT
John F. Mowat, La Grange, Ill., assignor to United States Steel Company, a corporation of New Jersey
Application June 1, 1948, Serial No. 30,256
5 Claims. (Cl. 263—20)

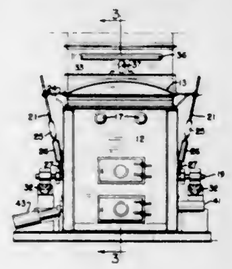
1. An ingot-heating furnace comprising a pit open at the top, having a bottom and side walls, a hot-gas supply flue formed in said side walls extending around the pit at a level adjacent the top of the side walls, inlet passages spaced around the pit branching from said flue and extending through the side walls adjacent the top thereof, an exhaust flue formed in said side walls extending around the pit at a level adjacent said

bottom, outlet passages spaced around the pit and extending from the interior thereof to said



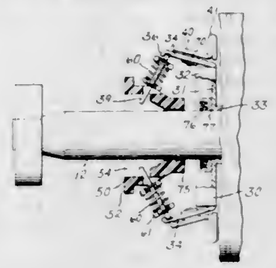
exhaust flue, a combustion chamber adjacent said pit and a passage connecting said chamber to said hot-gas supply flue.

2,611,601
VIBRATING-HEARTH FURNACE
Dee A. Knight, Lawson, Colo.
Application January 26, 1950, Serial No. 140,659
4 Claims. (Cl. 263—21)



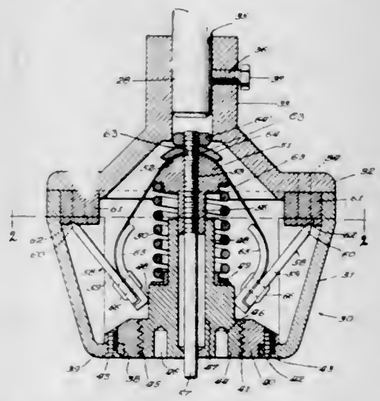
1. In a reverberatory-type furnace having an enclosed furnace chamber defined by front, rear and side walls and a roof bridging therebetween, an exhaust passage through a lower portion of the chamber rear wall, heat-generating means delivering to said chamber through an upper portion of the chamber front wall, and means for feeding material to be treated through said roof inwardly adjacent said rear wall, a horizontal shaft loosely traversing the chamber side walls transversely of the chamber between the exhaust passage and heat delivery levels and well forwardly from said rear wall, altitudinally-adjustable hangers engaging the ends of said shaft exteriorly of the chamber to suspend the shaft for oscillation, vibrator units operatively engaging the exterior ends of the so-suspended shaft, a flat, solid tray fixed to said shaft in operatively clearing adjacency of its side and rear end margins relative to the corresponding chamber walls with its front margin spaced inwardly from the chamber front wall, whereby to dispose said tray as a hearth positioned to receive the feed of material at its rearward end and arranged to direct heat flow within the chamber through the material infeed and to successively and longitudinally traverse the tray upper and lower surfaces, means for adjustably determining the longitudinal inclination of said tray relative to the horizontal, and means for collecting material discharged over the tray front margin and delivering the same exteriorly of the chamber.

2,611,602
CENTRIFUGAL OPERATING DEVICE
Walter A. Rosebraugh, Portland, Oreg., assignor to Iron Fireman Manufacturing Co., Portland, Oreg., a corporation of Oregon
Application April 16, 1948, Serial No. 21,482
12 Claims. (Cl. 264—15)



12. In a centrifugal operating device including a support adapted to be fixedly mounted on a rotatable member, a centrifugal flyweight member pivotally mounted on said support, said weight member including an operating arm rigidly integral therewith extending toward the axis of rotation of said support, an axially movable collar adapted to be mounted on said rotatable member, the inner end of said arm being operatively connected to said collar, and a compression spring arranged about said arm between said support and said collar, said collar being operated with a snap action by said weight member from one of its limit positions to the other in both accelerating and decelerating conditions of said rotatable member.

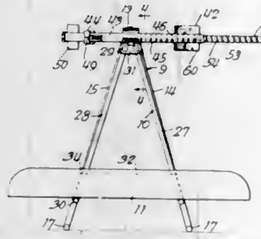
2,611,603
MECHANICAL GOVERNOR WITH SPRING SUPPORTED WEDGE SHAPED GOVERNOR WEIGHTS
Otto E. Hintz and Howard A. Heckendorf, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application September 30, 1948, Serial No. 51,958
2 Claims. (Cl. 264—18)



1. In a speed governor having a casing adapted to be rotated by the drive shaft of an electric motor, an upwardly extending tubular support, a plunger arranged to reciprocate within said support, said plunger having a portion projecting outwardly from the casing, a resilient member connected to said plunger for normally urging the same vertically inwardly directed arcuate

members disposed on opposite sides of the plunger, governor weights disposed at opposite sides of the plunger, each weight including a relatively narrow body, the lower portion of said body being connected to an inwardly directed arcuate member, a relatively thin flexible band having a portion engaging the plunger and having its ends engaging the arcuate members for connection to the governor weights, said band being arranged to react against the resilient member of said plunger, a pivot member for each governor weight, each member having a recessed surface, a diverging edge portion adjacent the upper end of each governor weight, said edge portions engaging the recessed surfaces in rocking relation, said weights being arranged to pivot on the diverging edges upon rotation of said casing whereby the lower ends of said weights are swung outwardly and said plunger is reciprocated.

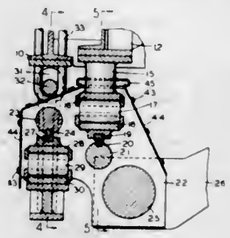
2,611,604
BABY WEIGHING SCALE
John C. Sutton and William V. Sutton, Rockford, Ill., assignors to Housewares, Inc., Rockford, Ill., a corporation of Illinois
Application March 20, 1946, Serial No. 655,724
13 Claims. (Cl. 265—49)



1. A foldable weighing scale comprising a foldable two-legged stand, the legs of which are pivoted to a support to be foldable toward each other and have means for securing the same in spread-apart position and in rigid relation to the support, a beam fulcrumed on said support carrying a counterpoise weight on one side of the fulcrum, a foldable two-legged cradle for supporting a weight pan the legs of which are pivotally attached to a yoke suspended from the beam on the other side of the fulcrum, said cradle legs being foldable toward each other, and a weight pan detachably connected to and serving to hold said cradle legs in spread apart operative relationship, the legs of the stand and legs of the cradle being foldable substantially into coplanar relationship with respect to the beam, and the pan being of a width in relation to the dimensions of the legs of the stand and legs of the cradle to accommodate the beam and the foldable stand and cradle on said pan.

2,611,605
HOUSING FOR SCALE MECHANISM
Eugene W. Schellentrager, Shaker Heights, Ohio, assignor to The Atlas Bolt & Screw Company, Cleveland, Ohio, a corporation of Ohio
Application February 10, 1949, Serial No. 75,597
1 Claim. (Cl. 265—71)

In heavy duty weighing mechanism for movable scale cars of the type having a sub-frame movable responsive to variations of load thereon, a motion transmitting lever comprising an elongated heavy bar adapted for mounting beneath, and operatively engaged by, said subframe, two lever arms rigidly fixed to said bar, a first such lever arm adapted to be responsive to load applications to said sub-frame, and a second such lever arm being adapted to transmit such responses to scale means, the first said lever arm comprising two metal plates spaced in parallel relationship on said bar, each said plate having a first circular aperture equidistant from said bar, and each said plate having a second circular aperture, said second apertures also being equidistant from said bar, said first apertures being axially aligned and said second apertures being likewise axially aligned, two parallel pivot pins extending transversely between said plates, one such pin having opposed cylindrical end portions fittedly supported in said first apertures, and the other such pin having opposed cylindrical end portions fittedly supported in said second apertures, each pin being provided with a longitudinally extending keyway, a knife edged member fixedly seated in each keyway, each such pin being initially rotatable with respect to said plates

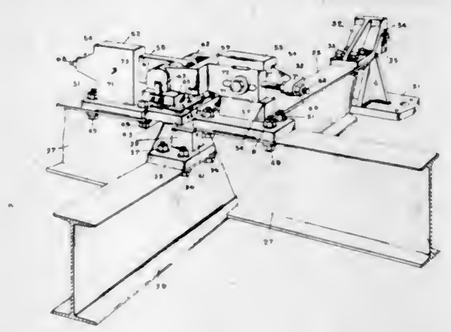


whereby to permit accurate positioning of said knife edges relative to said plates, and whereby, when thus accurately positioned, each pin may be permanently secured in the desired position, a supporting column extending downwardly from said sub frame and resting on one said knife edge, said parallel plates being provided with guard means removably attached to the edges of said plates and extending across the space therebetween, said supporting column extending downwardly through said guard means with clearance spacing therefrom, said guard means having an upturned flange surrounding and defining said clearance spacing, said column having an imperforate cap member fixed thereto, said cap member having a peripheral downturned flange telescopingly surrounding said upturned flange but with clearance therefrom whereby to permit relative movement between said guard means and said cap while avoiding mutual contact between said guard means and said cap.

2,611,606
WEIGHING SCALE
Harlan A. Hadley, Rutland, Vt., assignor to The Howe Scale Company, a corporation of Vermont
Application January 6, 1947, Serial No. 720,443
17 Claims. (Cl. 265—71)

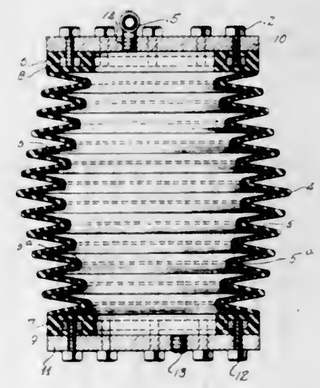
9. In a weighing scale, the combination with a lever system including a transverse lever and two main arms, of means for connecting said transverse lever and said main arms comprising a pivot supported on said transverse lever, a saddle-block rockably mounted on said pivot, anti-friction bearings mounted on said saddle-block, a bracket on each of said main arms, a bifurcated arm carried in one of said brackets, an arm carried by the other of said brackets and extending within the bifurcations of the bifurcated arm, and means for supporting said bracket

support arms on said saddle-block including pivots on said bracket supported arms resting on



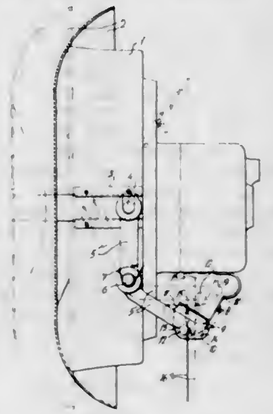
bearing blocks supported by said anti-friction means.

2,611,607
ADJUSTABLE ACCORDION AIR CUSHION SPRING
George Price Needy, Inkster, Mich.
Application October 22, 1948, Serial No. 55,948
1 Claim. (Cl. 267—65)



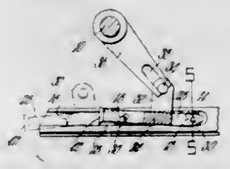
A deformable pneumatic spring for use in the suspension system of an automotive vehicle including a barrel-shaped flexible casing provided with a plurality of horizontally disposed bellows-like pleats, a resilient lining arranged within said casing and having the same configuration as the latter, a plurality of wire rings embedded in said casing for preventing the casing from spreading and stretching radially, said casing having its lower and upper ends each terminating in an annular shoe, a steel ring embedded in each of said shoes, a head plate arranged contiguous to the upper end of said casing, means passing through the head plate and the shoe adjacent thereto and into the adjacent ring for securing the head plate to the adjacent shoe, a bottom plate arranged contiguous to the lower end of said casing, means passing through the bottom plate, and the shoe adjacent thereto and into the other of said rings for securing the bottom plate to the adjacent shoe, a drainage opening in said bottom plate, a screw plug normally closing said drainage opening, an air port in said head plate and a nozzle arranged in engagement with said air port.

2,611,608
WINDOW OR WALL VENTILATOR
Willem Hendrik Braskamp, Voorburg, Netherlands
Application February 13, 1951, Serial No. 210,720
In the Netherlands February 17, 1950
3 Claims. (Cl. 268—97)



1. A ventilator comprising a frame element having an opening therein, a shutter movable between a position obturating said opening and a position giving free passage for air passing therethrough, a shutter operating member mounted on said frame for movement between two end positions corresponding to the closed and open positions of said shutter, spring means acting on said operating member to urge said member toward one of its end positions, a pawl positioned to engage said member and retain it against the action of said spring when in its other end position, a pawl-lifting member pivotally mounted on said operating member, actuating means for exerting on said pawl-lifting member an actuating force in opposition to said spring means, the pivotal mounting of said pawl-lifting member on said operating member being such as to enable rocking movement of said pawl-lifting member between positions where the point of exertion of the actuating force is situated on either side of the pivotal axis of said mounting, and a spring urging said pawl-lifting member to one of said positions in contact with said pawl.

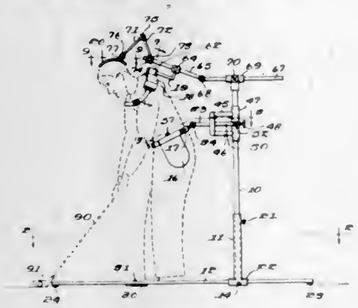
2,611,609
RECIPROCATING WEB FEED
Avides J. Hagopian, Springfield, Mass.
Application June 21, 1950, Serial No. 169,442
1 Claim. (Cl. 271—2.5)



Apparatus for feeding successive portions of material comprising in combination, elongated horizontal side rails and an elongated material support having opposite longitudinal side portions secured to lower portions of said rails holding the rails in transversely spaced relation, brackets secured to and extending upwardly from

said rails having a shaft oscillatable therein, inner adjacent sides of said rails provided with longitudinal ways disposed longitudinally thereof, elongated blocks slidable in said ways having elongated slots in opposite ends thereof relatively converging inwardly and upwardly, an elongated transverse feed member extending between said side rails having elongated side arms extending forwardly and rearwardly thereof and disposed adjacent and parallel to said side rails, pins extending from forward and rear ends at outer sides of said side arms disposed in the slots of said blocks, said slots and pins arranged for swinging of said feed member relative to said blocks and rails on an axis transverse to said side rails to move forward ends of the side arms of said feed member up and down towards and away from said support, a lever fixed to said shaft having an end depending therefrom, a lug extending upwardly from said feed member, pin and slot connections provided on the end of said lever and lug operatively connecting said lever to said feed member whereby said feed member is swingable by oscillations of said shaft, and feed fingers on forward ends of the side arms of the feed member.

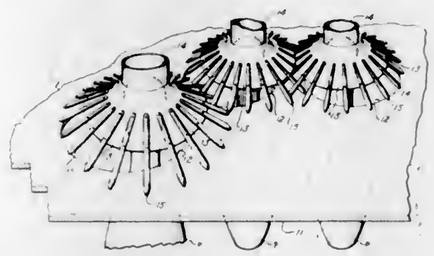
2,611,610
MECHANICAL GOLF PLAYER'S STANCE POSITIONER
James Rikuo Hara, Honolulu, Territory of Hawaii
Application May 16, 1950, Serial No. 162,283
3 Claims. (Cl. 273—35)



1. In a golf player stance positioner, the combination which comprises a telescoping post, a base having a foot positioning bar pivotally mounted thereon and upon which the said post is mounted, an arcuate shoe positioned on the base indicating the line of flight and swing arc, a horizontally disposed rectangular shaped frame adjustably mounted on the post, arms having hip engaging pads adjustably mounted on the ends thereof suspended from the said rectangular shape frame, yielding means in the frame providing lateral movement of the hip pad carrying arms, spaced arms extended from said hip pad carrying arms and positioned to contact the telescoping post to limit lateral movement of the said hip pad carrying arms.

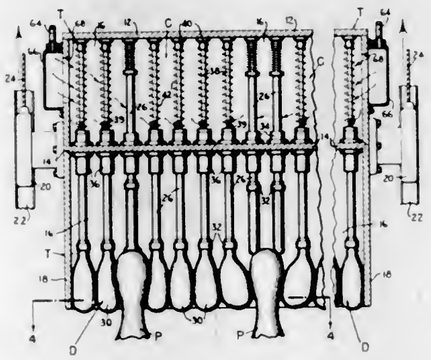
2,611,611
BOWLING PIN RESPOTTER
Morehead Patterson, New York, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application September 10, 1946, Serial No. 696,062
13 Claims. (Cl. 273—42)

1. In a pin spotter mechanism, a horizontal member positioned above the bed of a bowling alley; holes formed in said member above each of the positions on which bowling pins are spotted; conical devices positioned above said holes; legs formed at the lower end of said conical devices for slidably supporting the devices over said holes to permit the devices to center themselves over the heads of standing off spot pins



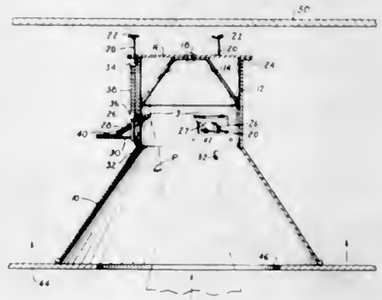
when they engage with the standing pins, the legs on each device being sufficiently spaced from each other and so arranged to permit them to pass between the legs on adjoining devices; and pin gripping means connected to said conical devices for gripping the head ends of pins over which said conical devices are centered.

2,611,612
BOWLING PIN RESPOTTING MECHANISM
Gottfried J. Schmidt, Pearl River, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application July 22, 1947, Serial No. 762,575
17 Claims. (Cl. 273—42)



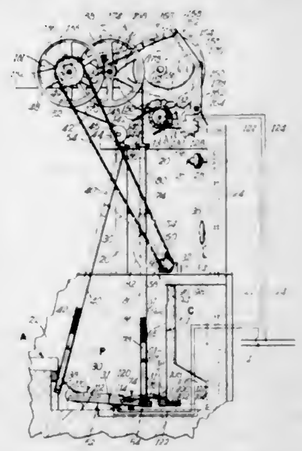
6. Apparatus for gripping, lifting and replacing standing on spot and off spot pins on a bowling alley comprising a framework constructed and arranged to be positioned over the bed of a bowling alley where bowling pins are spotted, a support for said framework movable toward and away from the bed of a bowling alley, depending devices carried by said framework and being of such number and dimensions as to substantially fill in the area between standing bowling pins, means for effecting lateral movement of at least portions of at least some of said devices to bring them into contact with each other and with standing bowling pins, and means for fixing said devices with respect to each other and the standing bowling pins to effect a grip thereon to allow said standing pins to be elevated above the alley and replaced thereon in the same position they occupied before being elevated.

2,611,613
BOWLING PIN HOLDING APPARATUS
Gottfried J. Schmidt, Pearl River, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application September 13, 1947, Serial No. 773,851
17 Claims. (Cl. 273—42)



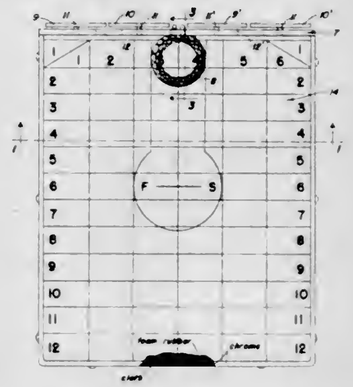
1. Apparatus for handling bowling pins comprising a platform movable towards and away from the bed of a bowling alley, said platform having a plurality of openings through which the heads and handles of standing bowling pins may pass, a planar member spaced above and extending across said platform, a plurality of shiftable members mounted above said openings for centering bowling pin grippers above a bowling pin, pivoted bowling pin grippers connected to said shiftable members for gripping the handles of standing bowling pins projections extending upwardly from said pivoted grippers, mechanism for changing the distance between said planar member and platform to cause said projections to engage with said planar member to move said grippers into and out of gripping relationship.

2,611,614
BOWLING ALLEY BACKSTOP MECHANISM
Gustaf E. Hagquist, Brooklyn, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey
Application March 15, 1946, Serial No. 654,591
2 Claims. (Cl. 273—43)



1. In a bowling pin setting machine in combination a relatively thin backstop provided with a substantially vertical uniplanar ball striking surface, means mounting said backstop at the rear of the pit of a bowling alley, a flexible pin lifting apron for lifting pins out of said pit, means mounting one end of said apron above said backstop, said apron being held by said means in draped relationship over and extending downwardly in front of said backstop and longitudinally of said pit to a point adjacent the end of said alley, a ball lift located in front of said backstop and adjacent thereto and arranged to rest upon said apron, and means for raising said ball lift and said apron free of interference by said backstop to discharge balls and pins from said ball lift and apron.

2,611,615
SIMULATED BASKETBALL GAME
Walter J. Watson and Walter J. Watson, Jr., Washington, D. C.
Application September 27, 1949, Serial No. 118,154
1 Claim. (Cl. 273—85)

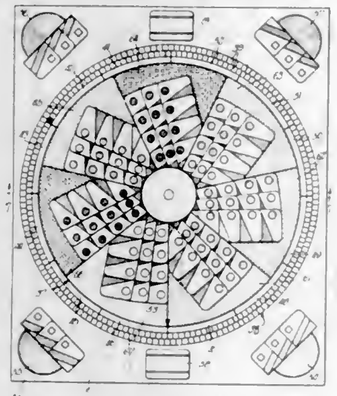


A game comprising in combination, a playing area comprising a rectangular rigid base member having a resilient material on a surface thereof, a cloth covering said resilient material and base member, said cloth having markings thereon dividing said area into squares, the said squares lying along a length and width thereof having designating indicia marked thereupon corresponding in character to the designating indicia on the surfaces of dice for determining the square in the playing area constituting the region of play, a backboard attached to the playing area, a basket attached to the backboard, score indicating means carried by said backboard, disks adapted to be manually shot through the basket from the playing area in the manner of tiddlywinks, and three dice, one being of a color distinct from the others, the die of distinctive color having indicia on each surface thereof conforming with the indicia marked in the squares along the width of the playing area, the remaining dice having indicia thereon such that the sum of the markings on the two uppermost surfaces will conform with indicia marked in squares along the length of the playing area, whereby to designate the region of play.

2,611,616
BOARD GAME APPARATUS
Emma E. Kloss, Chicago, Ill.
Application May 10, 1950, Serial No. 161,063
17 Claims. (Cl. 273—134)

1. Game apparatus comprising a board having a circular track graduated in steps representing the days of the calendar year, a disc turnably mounted on said board in position within and with its peripheral edge in registration with said

track, said disc at and inwardly of its edge being marked to define seven segments, forming play controlling zones, adjustable around the circular track by turning the disc on the board, differentiated playing pieces marked to correspond each with a matching one of said segments and movable around the circular track in moves determined by the chance drawing of cards and throwing of dice, as modified by the adjustment of said disc, a pack of cards comprising a plurality of thirteen-card suits each marked to correspond with a matching one of said segments of the disc, an additional wild suit and a pair of joker cards, the cards of the several suits of said pack being cross indexed by color markings to correlate the same in sets comprising the first, fifth and ninth



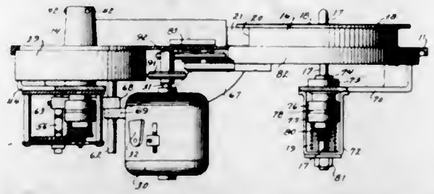
cards; the second, sixth and tenth cards; the third, seventh and eleventh cards; and the fourth, eighth and twelfth cards of the several suits, a set of seven dice, each die of said set having a pair of opposed faces marked to correspond with a matching one of said segments, at least one of said dice having its remaining four faces marked to correspond respectively with said additional wild suit, said joker cards and a stop symbol, the remaining dice having their remaining four faces marked with number symbols, in the range, between and including one and twelve and so arranged that the numbers represented on the faces of each of said dice total twenty-six, said number symbol carrying faces being also clored in conformity with the cross indexing colors of said cards.

2,611,617
FISHING GAME
Edward J. Strohm, Chicago, Ill.
Application July 26, 1948, Serial No. 40,769
4 Claims. (Cl. 273—140)



1. A fishing game, comprising a flat card bearing a representation of a fish and having a fastener extending through the card at one end and providing oppositely extending substantially flat prongs raised slightly at the extremities from the card and a fishing tackle comprising a pole and a line and a circular hook at the end of the line adapted to be moved over and into engagement under both of the prongs for raising the fish in the operation of catching it, and the hook being disengageable from the prongs by supporting the fish upon the end opposite the prongs in substantially upright position, and lowering the pole and line to disengage the hook from the prongs.

2,611,618
TAPE AND DISK RECORDING AND REPRODUCING DEVICE
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois, Institute of Technology, Chicago, Ill., a corporation of Illinois
Application June 1, 1946, Serial No. 673,740
3 Claims. (Cl. 274—8)

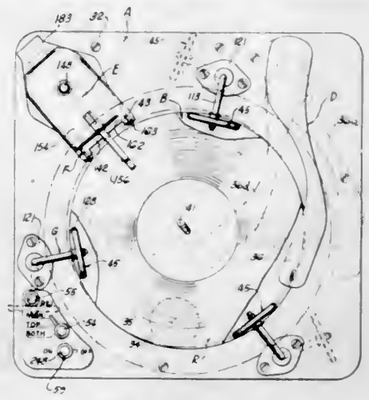


1. A sound reproducing device comprising a supporting plate, a disk record supporting turntable rotatably mounted on said supporting plate, said turntable including a radially outwardly facing channel in the peripheral surface thereof for receiving an elongated magnetic record member, a hub mounted on said plate for rotation about an axis substantially parallel to the axis of rotation of said turntable, said hub being arranged to carry a spool having an elongated record member wound thereon and extending into wind-up engagement with said turntable, an electro-magnetic transducer head mounted between said hub and said turntable for limited back and forth motion along a path substantially parallel to the axes of rotation of said turntable and said hub, a motor, means for selectively driving said turntable or said hub from said motor, means driven from said hub for moving said transducer head back and forth along said path of movement when said hub is rotated, said transducer head lying in the path of movement of said magnetic record member when said record member is being transferred from said spool to said turntable, and a tone arm associated with said turntable for engagement with a disk record when a disk record is supported on said turntable.

2,611,619
PHONOGRAPH
John R. Cambron and David C. Rockola, Chicago, Ill., assignors to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application May 15, 1948, Serial No. 27,297
2 Claims. (Cl. 274—10)

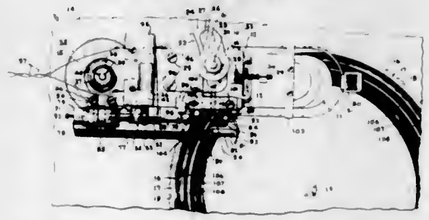
1. In a phonograph having record reproducer means, a turntable, storage means for supporting a plurality of disc records, and means for moving said records one at a time from said storage means into a position in alignment with said turntable; record support means for receiving each record so positioned by said moving means and delivering the same to said turntable, comprising a plurality of swingable members, means for swinging said members simultaneously from an inoperative normal position to a receiving position in alignment with said turntable and back to said normal position, and resilient connections between said swinging means and said members for preventing injury to said support means resulting from manual movement of said swingable members, said swinging means including a driving cam member operatively associated with each of

said swingable members, and said resilient connections comprising a driven cam member connected to each of said swingable members, and a



spring resiliently maintaining each of said driven cam members in engagement with its associated driving cam member.

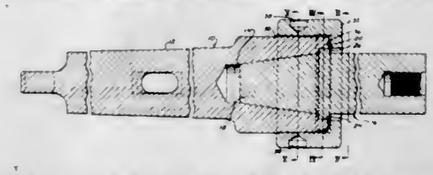
2,611,620
RECORD MARKER FOR DICTATING MACHINES
Frank E. Runge, Branford, Conn., assignor to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application August 24, 1948, Serial No. 45,952
9 Claims. (Cl. 274—13)



1. In a motor driven phonographic machine having means for supporting and driving a record member, a recording stylus, a stylus support, and feed means for moving said stylus support laterally at a predetermined speed across a record member on said supporting and driving means; mechanism on said stylus support for increasing the speed of movement of said stylus support, manually operable means controlling said mechanism, and a motor operating switch operated by said mechanism for actuating said record supporting and driving means during the time said mechanism is in operation, whereby movement of the record will normally be insured during lateral movement of the stylus.

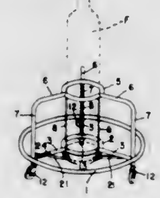
2,611,621
TOOLHOLDER
Earl M. Patterson and Ernest O. Behne, Akron, Ohio, assignors to The Portage Machine Co., Akron, Ohio, a corporation of Ohio
Application September 20, 1950, Serial No. 185,854
8 Claims. (Cl. 279—91)

1. A quick disconnect coupling between two rotating members for machine tools or the like including an adapter having a standard taper shank at one end and a tapered socket at the opposite end, three lugs projecting from the end of the adapter adjacent said socket, said lugs forming a substantially triangular recess having three flat faces parallel to the axis of rotation of said socket and spaced 120° apart, a tapered shank member slidably engaging said tapered socket, a substantially triangular flange integrally formed on said shank member, said flange snugly fitting in said recess when the tapered shank member and socket are in engagement, a cap nut threadably engaging the adapter, the cap portion



of said cap nut having a substantially triangular hole through which the shank and flange of said tapered shank member can pass, said cap nut securing the shank member in the socket of the adapter by engagement of the inner face of the cap nut with the flange when rotated into locking position, and detent means associated with said cap nut and adapter for indicating alignment of said triangular hole with said triangular flange for withdrawal of said shank member.

2,611,622
OXYGEN TANK CART
Irwin A. Kernkamp, Spokane, Wash.
Application July 28, 1950, Serial No. 176,366
2 Claims. (Cl. 280—5)



1. A cart for a cylindrical tank comprising a carriage adapted to be lowered over a tank and having a base formed of inner and outer rings, bars holding said rings concentric with each other, a vertically spaced ring above said inner ring and carried by the base for bracing a tank against tilting movement above the base, wheels under the base, hooks pivotally connected with and extending downwardly from the inner ring in spaced relation to each other circumferentially thereof, bills on the hooks adapted to swing into and out of supporting engagement with a tank, links pivoted to said hooks for vertical tilting movement and extending outwardly from the hooks, keepers on said bars through which links of the hooks pass upwardly at an incline, and notches in the links into which portions of said keepers removably fit and releasably hold the hooks in or out of supporting engagement with a tank.

2,611,623
SKI AND METHOD OF MAKING THE SAME
Andrew G. Strand, Philadelphia, Pa.; Elsie M. Strand, administratrix of said Andrew G. Strand, deceased, assignor, by mesne assignments, to Elsie M. Strand, Philadelphia, Pa.
Application February 24, 1947, Serial No. 730,266
1 Claim. (Cl. 280—11.13)

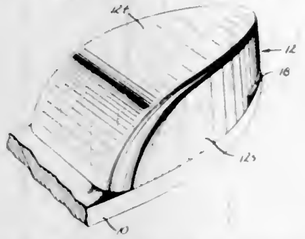
A ski comprising a base plate comprising laminations of wood, the grain of the wood of each of

said laminations extending parallel to the mating edges of the laminations, the laminations extending parallel to the longitudinal axis of the ski and oblique to the plane of the bottom of the base plate, an intermediate ply comprising laminations of wood, the grain of the wood of the laminations of said intermediate ply extending parallel to the mating edges of the laminations of said ply and



the mating edges of the laminations extending in oblique relation with the plane of the top of the ply formed thereby and extending diagonally of the length of the ski, and a top plate comprising laminations extending parallel to the longitudinal axis of the ski and which are keystone-shaped in cross-section and positioned alternately with the wider faces at the top and bottom of the top plate.

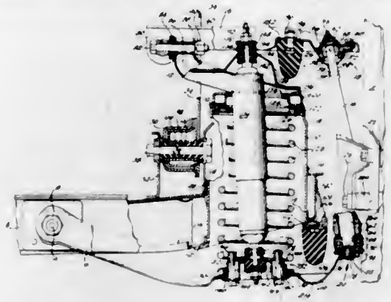
2,611,624
SKI AND SKI TIP ATTACHMENT
Max A. Gurvich, Seattle, Wash.
Application May 23, 1950, Serial No. 163,602
6 Claims. (Cl. 280—11.37)



1. A demountable ski tip attachment for a ski having an elongated and generally flat body portion and a toe end portion joined to the body portion and curved upwardly and forwardly therefrom and progressively tapered forwardly in width, comprising a prow-shaped member having a top wall, and upright side walls converging forwardly and spaced apart substantially corresponding to the width of the ski toe end portion, the bottom edges of said upright sides being convexly curved for substantially contiguous engagement with the upwardly curved ski toe end portion, and means for securing said attachment on the upper side of the ski toe end portion.

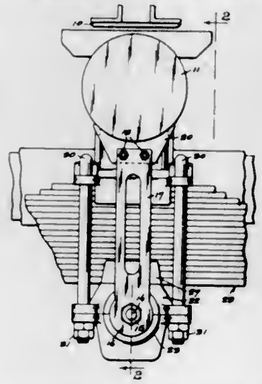
2,611,625
INDEPENDENT FRONT WHEEL SUSPENSION COUPLED AS A UNIT TO THE VEHICLE FRAME
Floyd F. Kishline, Ross H. Phelps, and Johnston Stuart Voigt, Kenosha, Wis., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application April 24, 1946, Serial No. 664,632
6 Claims. (Cl. 280—96.2)

3. An independent wheel suspension comprising a resiliently mounted frame cross member, aligned apertures formed in the top and bottom of said cross member, a cylindrical member rigidly secured within said aligned apertures and extending upwardly therefrom, a lower control arm rotatably secured to said cross member and extending outwardly therefrom, an outwardly extending upper control arm, means secured to said cylindrical member for rotatably carrying said upper control arm, wheel carrying means interposed between the outer ends of said upper and lower control arms, a first spring seat formed



in the top of said cylindrical member, a second spring seat formed in said lower control arm, and a compression spring interposed between and abutting said spring seats.

2,611,626
TANDEM AXLE SPRING MOUNTING
Peter Thomas, Seattle, Wash.
Application February 5, 1948, Serial No. 6,479
11 Claims. (Cl. 280—104.5)

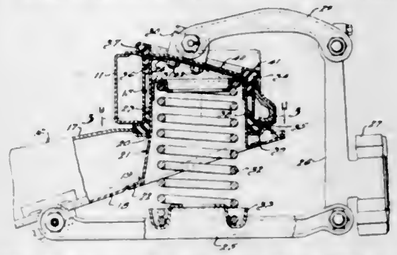


1. In a tandem rear-axled vehicle, and in combination with the vehicle frame and with a spring assembly extending longitudinally between the two tandem rear axles, a trunnion mounting for the spring comprising a split bearing-block shackled to the spring, a trunnion-shaft of less diameter than that of the bearing-block's bearing chamber received in said chamber and rigidly connected with the frame, complementary separate segments of elastic material applied as a bushing within said bearing chamber and held by the inner surface to the shaft and by the outer surface to the block to serve the office of a torsion spring resiliently restraining wrist movement of the bearing-block, and means maintaining a coaxial relationship between the shaft and the bearing chamber.

2,611,627
VEHICLE FRAME STRUCTURE
Donald F. Reynolds, Berkley, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 14, 1948, Serial No. 8,459
8 Claims. (Cl. 280—106.5)

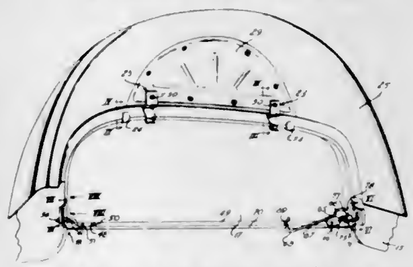
1. A motor vehicle frame structure comprising a pair of laterally spaced frame members each having a recess therein, a cross member having

a pair of projections one adjacent each extremity of said cross member, said projections being adapted to be positioned within said recesses of said frame members, yieldable means positioned



between said projections and said frame members, and means adapted to hold said cross member and said frame members in assembled relationship.

2,611,628
FENDER SHIELD
George W. Schatzman, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 7, 1948, Serial No. 63,971
15 Claims. (Cl. 280—153)



1. In a fender and fender shield assembly, a fender having a wheel access opening, a fender shield for substantially closing said opening, the fender shield being insertable into the opening by an upward movement generally in its plane and having marginal engagement with the margin of the fender defining said access opening, upstanding brackets on the upper margin of the fender shield engageable back of the adjacent margin of the fender for holding the fender shield against outward displacement as an incident to its mounting, downwardly extending bracket means on the fender engaging behind the fender shield margin to hold the fender shield against rearward displacement, respective brackets on the fender adjacent the lower portions of the ends of the access opening, and supporting arms interengaging supportingly with said brackets, one of said arms comprising a releasable latch cooperating with the opposite arm and said fender brackets to effect upwardly directed compression force in the fender shield to retain the fender shield tightly in the wheel access opening.

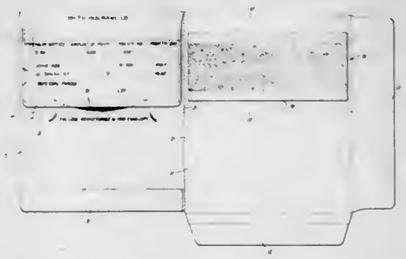
2,611,629
FENDER AND FENDER SHIELD ASSEMBLY
Donald C. Ludwig and George W. Schatzman, Detroit, Mich., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application January 25, 1949, Serial No. 72,662
12 Claims. (Cl. 280—153)

1. In combination in a fender and fender shield assembly, a fender having a wheel access opening and affording only restricted clearance between the margin defining the upper portion of the wheel access opening and an associated vehicle wheel structure, a fender shield closing said opening, means detachably supporting the lower end portions of the fender shield on the fender, a bracket member secured to said margin of the fender and including a generally hook-shaped portion projecting outwardly and downwardly beneath said margin, a vertical strut extending between and attached to the upper and lower margins at the inside of the fender shield, and a torsion rod latching member supported by said strut and including a lower operating structure engageable for operation below the lower margin



of the fender shield for rotation of the latching rod and an upper latching head portion engageable with said hook-shaped bracket portion, the strut having an inwardly projecting bearing structure thereon located in spaced relation below said bracket and said latching rod being journalled in said bearing structure below said latching head with the head swingable into and out of latching relation with said hook-shaped portion in the space between said bearing structure and said bracket, said strut having clearance opening therein above said bearing structure and into which the hook-shaped portion of the bracket projects in the fully assembled condition of the fender and fender shield.

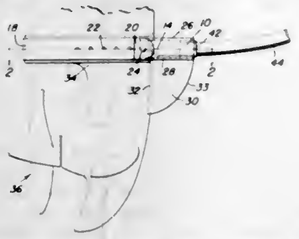
2,611,630
ENVELOPE COMBINATION
Victor J. Sawdon, New York, N. Y.
Application March 11, 1949, Serial No. 80,928
4 Claims. (Cl. 282—25)



1. As an article of commerce, a notification and return remittance envelope comprising, in combination, an inner envelope having as unitary parts thereof a body, a back flap provided with a clear notice area and cooperating with the body to form a remittance pocket, and a gummed sealing flap divided from the body by a fold line and adapted to be folded over the back flap and sealed in place for return transmission, the sealing flap having an ungummed portion of sufficient area to cover and conceal the entire notice-bearing area, and a folded and sealed but unaddressed enclosing envelope separated from the inner envelope by a fold line and comprising a front panel having a clear address area on its outer face which overlies a portion of the notice area of the inner envelope, and a transfer material on its inner side which covers and contacts said notice area, a back panel, and a sealing flap on the back panel folded around the free edge of

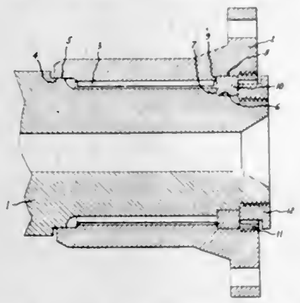
the front panel, and adhered to a marginal portion thereof, the construction and arrangement being such that type impressions applied to the front panel of the sealed outer envelope will be reproduced on the notice area of the inner envelope.

2,611,631
FLUSHING DEVICE FOR OUTBOARD MOTORS
Oden B. Benson, Woodmere, N. Y.
Application December 1, 1947, Serial No. 789,034
2 Claims. (Cl. 285—108)



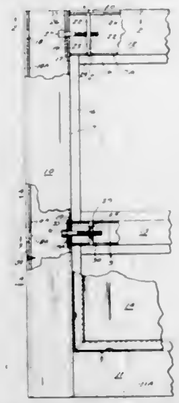
1. In combination with an outboard motor including a hollow fin having openings therein, a flushing device comprising a cylindrical body open at both ends, one end of said body bearing against the fin and surrounding the openings in said fin, a flexible attaching strap having one end attached to said body, said strap embracing said fin, means adjustably securing the free end of said strap to said body, and a supporting fin depending from said body and having an elongated recess, said hollow fin having an edge received in said recess.

2,611,632
SHAFT COUPLING ASSEMBLY
Frank R. Harris, Swansea, England, assignor to General Electric Company, a corporation of New York
Application June 28, 1951, Serial No. 234,095
In Great Britain October 11, 1949
5 Claims. (Cl. 287—53)



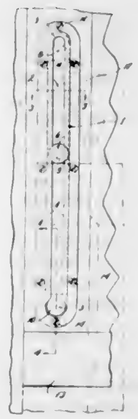
1. A shaft coupling assembly comprising an inner cylindrical shaft member having a circumferential row of axial splines spaced from the free end of the shaft, the shaft defining between said free end and the splines a first external cylindrical surface of a diameter less than the root diameter of the splines, the shaft having at the opposite end of the splines a second external cylindrical surface of a diameter greater than the outside diameter of the splines, a coupling sleeve member with a circumferential row of axial splines engaging the shaft splines to transmit torque between said sleeve member and shaft, the sleeve member having a third internal cylindrical surface adjacent one end of the second row of splines and of a diameter greater than the root diameter of the splines on the sleeve member and a fourth internal cylindrical surface adjacent the other end of the splines and engaging said second cylindrical surface, a ring member disposed between said shaft and sleeve member with inner and outer circumferential surfaces in engagement with said first and third cylindrical surfaces respectively, means securing said ring member against axial displacement relative to the sleeve member, and means connected to the shaft end portion and engaging said ring member for retaining the latter against axial displacement relative to the shaft, whereby the splines serve only to transmit torque between sleeve member and shaft while concentricity is maintained by engagement of said second and fourth cylindrical surfaces and by the engagement of the ring member with said first and third cylindrical surfaces.

2,611,633
CORNER CONSTRUCTION FOR METAL DOORS AND THE LIKE
Clifford L. Webster, Youngstown, Ohio, assignor to Aluminum Air Seal Manufacturing Company, Youngstown, Ohio, a corporation of Ohio
Application February 11, 1950, Serial No. 143,614
2 Claims. (Cl. 287—54)



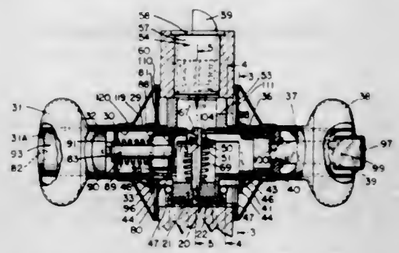
1. A structural connection, said connection comprising one hollow metal member disposed in end position against the side of another hollow metal member, said first mentioned hollow metal member having an opening in one side wall and an elongated slot formed longitudinally of said first mentioned member in the side wall in oppositely disposed relation to said one side wall, a clamping piece having opposed parallel faces and having a peripheral form substantially conforming to the interior of said one member and having a thickness less than the width of said slot, said clamping piece having a length substantially equal to the inside distance between said pair of side walls, polygonal reduced end extensions on said clamping piece of a thickness equal to the thickness of the clamping piece, the length of said slot being greater than the width of said clamping piece so that after said clamping piece has been positioned through said slot to an inclined relationship within the first mentioned member and rotated through approximately a right angle, said clamping piece can be pivoted from its inclined position to a second position wherein said end extensions are engaged in said opening and slot at the ends thereof adjacent the other hollow member and held from rotation by the walls of the opening and slot, the other hollow metal member having an opening in the side wall thereof having the first mentioned member positioned thereagainst, said clamping piece having a threaded opening extending between said parallel faces adapted to be aligned with said opening in the side wall of said other hollow member when said clamping piece is in said second position, and a bolt adapted to be engaged through said opening in the other hollow member and engaged in said threaded opening for clamping said members together.

2,611,634
WINDOW STOP
John E. Bevington, Mechanicsville, Ohio, assignor of one-half to John W. Leoblein, Cleveland, Ohio
Application March 23, 1950, Serial No. 151,406
2 Claims. (Cl. 292—1)



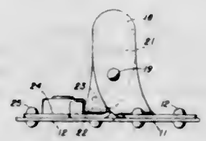
1. A window stop comprising a mounting consisting of an elongated strip of sheet metal having a central longitudinal slot that is enlarged at one end to provide an entrance opening, said mounting being embossed throughout the region of the slot to set off a flat marginal attaching flange and provide a guiding flange that occupies a plane substantially parallel with and forwardly of the plane of the attaching flange and that extends along oppcsite sides of the slot and about the end thereof remote from said opening, a stud that is cylindrical from end to end and is grooved circumferentially adjacent one of its ends to provide a head and a neck connecting the head to the body of the stud, the head of the stud being of a size to pass through the entrance opening and the neck having a thickness less than the width of the slot, the straight portions of the guiding flange on opposite sides of the slot occupying the groove of the stud when the stud is applied to the mounting to thereby detachably connect the stud to the mounting and provide the sole supporting means for the stud, and a detent consisting of a leaf spring attached to the end of the mounting on the rear side thereof by a part of the mounting being peened over the detent, said detent extending across the entrance opening so as to normally prevent the head of the stud from registering with said opening, the attaching flange being provided with holes for fastening means spaced apart about the mounting.

2,611,635
LATCH MECHANISM
Robert C. Cerf, Jr., Los Angeles, Calif., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif., a corporation of California
Application December 30, 1948, Serial No. 68,214
3 Claims. (Cl. 292—169)



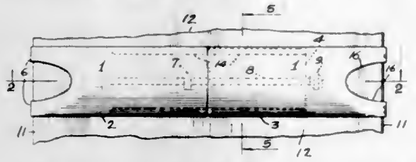
1. In a lock having an inner and an outer knob each having a separate tubular spindle with a rollback arranged to reciprocate a latch retractor by the turning of either knob, said inner knob having a push button, means actuatable by said push button for dogging the outer knob against rotation, said means comprising a locking sleeve attached to said push button, said sleeve being disposed in both of said spindles and closely fitting the inside walls of said spindles, said locking sleeve being longitudinally movable by said push button for dogging said outer spindle, said sleeve being cut away to a cylindrical segment in the portion adjacent said retractor and being provided with detent teeth adapted to releasably engage said latch retractor, whereby said locking sleeve is released by latch-retracting movement of said retractor and a lock tab disposed at the inner end of said sleeve adapted to be moved into position to dog said outside knob spindle when said sleeve is pushed inwardly by said push button.

2,611,636
AUTOMATIC LATCH GRIP
Leo F. Metzger, Lakewood, Ohio
Application July 3, 1951, Serial No. 235,088
5 Claims. (Cl. 292—218)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



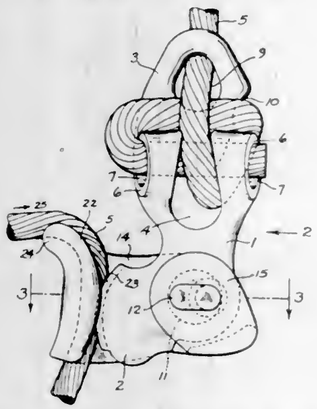
1. A handle and latch device for a top-opening container having at least a pair of abutting lids comprising a substantially U-shaped first member secured by its leg end portions to one lid at the edge thereof, a second member similarly shaped but with inwardly turned leg end portions, said second member pivotally secured to said first member at approximately the midpoint of the leg portions of each member, said first and second members having matching arcuate sections constructed and arranged to form a handgrip, and latch means on the other lid of the container adjacent the edge thereof engageable with the inwardly turned leg end portions of said second member.

2,611,637
AUTOMOBILE DOOR BUFFER
Axel Neslund, San Francisco, Calif.
Application December 6, 1949, Serial No. 131,259
2 Claims. (Cl. 293—1)



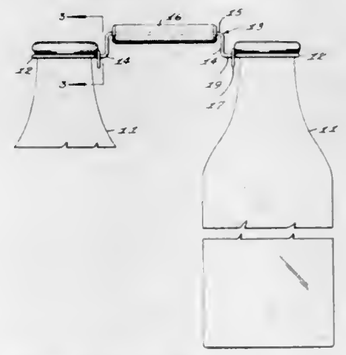
1. An automobile door buffer comprising a bar composed of a pair of slidably connected and longitudinally telescopic sections, arcuate in cross section and having spaced and parallel hooks formed on opposite ends of opposite sections and adapted to engage opposite side edges of an automobile door; a threaded bearing mounted within one section; and a screw rotatably mounted upon the other section and engaging said threaded bearing and adapted to telescope said sections and move said hooks thereon into engaging relation with opposite side edges of an automobile door.

2,611,638
BUNDLING CHOKER
William A. Meighan, Oswego, Oreg.
Application April 19, 1948, Serial No. 21,825
15 Claims. (Cl. 294—75)



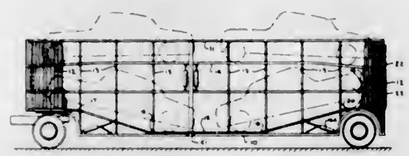
1. A choker fitting comprising a body having means for securing the end of a wire rope choker thereto, a pivotally secured jaw member and a pivot pin arranged in an eye in said body for joining said body and said jaw member together, said body having a tongue operatively arranged to lie within said jaw member and adapted in one position with said jaw member to pinch and to hold an intermediate section of said wire rope choker between them, said pivot pin having two effective thicknesses, one traversing substantially the entire diameter of said eye, and another traversing only a portion of said diameter, said pivot pin being shiftable to bring said different thicknesses into successive effective relationships with said eye, whereby when the first thickness is in effective relation with its eye, said tongue and jaw members are spaced apart a distance effectively to pinch and to hold said wire rope, and when the second thickness is in effective relation, said tongue and jaw members are spaced apart sufficiently to free said rope from seizure between said tongue and said jaw member.

2,611,639
DEVICE FOR CARRYING MILK BOTTLES
Marshall Sadeck, New Bedford, Mass.
Application October 14, 1949, Serial No. 121,371
2 Claims. (Cl. 294—87.2)



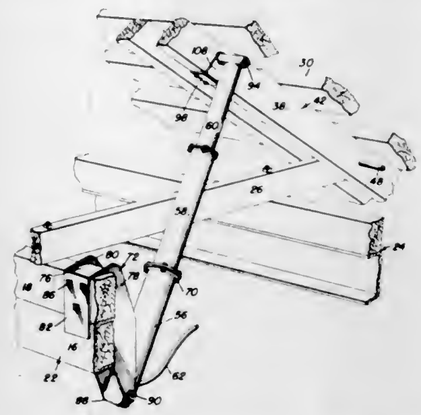
1. A bottle carrying device comprising a single piece of resilient wire having the portion adjacent each end bent inwardly to form a loop in the form of a substantially complete circle with the portion of said wire adjacent the terminating point of said loop being spaced from the adjacent portion of said wire for completely surrounding a bottle neck below a projecting collar on the latter, said loops lying in the same horizontal plane, each end of said wire adjacent to the terminating point of each loop being bent to provide a means engageable with the adjacent portion of said wire when the latter surrounds the bottle neck to thereby close the loop and retain said bottle neck.

2,611,640
CARGO TRAILER
Lynn M. Francis, Detroit, Mich.
Application August 30, 1948, Serial No. 46,859
2 Claims. (Cl. 296—1)



2. An open top cargo trailer for hauling either vehicles or freight, comprising wall members surrounding the sides, front and rear of said trailer, an upper platform vertically movable within said walls and a lower platform forming a bottom for said trailer, said upper platform being selectively movable to a position adjacent the top edges of said walls to form a top closure for said trailer when used for hauling freight and also being selectively movable to a lowered position spaced below the upper edges of said walls when used for hauling vehicles whereby vehicles may be first placed in position on the lower platform and the upper platform may then be lowered to a point immediately above the vehicle to permit carrying vehicles on the upper platform at a minimum height, said trailer being provided with a fifth wheel coupling and a rear axle and said lower platform comprising fixed floor sections disposed over the fifth wheel coupling and the rear axle respectively and a pivotal floor section pivotally secured to the inner edge of each of said fixed sections, said pivotal sections having their free ends abutting in the horizontal position thereof to form a continuous horizontal floor for the trailer when used for hauling freight, a cross member disposed in a plane below said fixed sections and mounted adjacent the bottom of the trailer, said pivotal sections adapted to pivot to a position such that their free ends abut the said cross member to form an angularly disposed floor for the trailer when used for hauling vehicles, said angular floor permitting the lowering of the vehicles carried on the lower platform and thus permitting the upper platform to be lowered to a maximum extent, thus providing a minimum overall height for the trailer and vehicle.

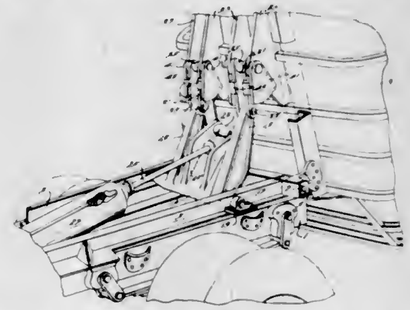
2,611,641
HYDRAULIC DUMPING ATTACHMENT FOR TRUCKS
Elmer L. Stockwell, Graybull, Wyo.
Application November 2, 1948, Serial No. 57,843
14 Claims. (Cl. 298—18)



1. In a dump truck including a frame having longitudinally extending opposed side bars and a dump body supported on said side bars and pivoted to one of the side bars for tilting about a longitudinal axis, a hoist mechanism including a pair of plates secured to the other of said side bars and extending below the side bar, a supporting member pivoted to the lower ends of the plates and including a holder, a hydraulic cylinder having its lower end seated on and secured to the supporting member and received within said holder, a piston rod operatively mounted in the cylinder and means for pivotally securing the outer end of the rod to the underside of the body.

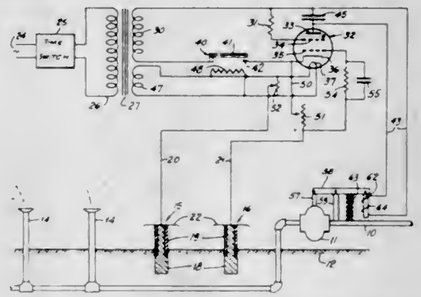
2,611,642
ARM AND TENSION LINK HOIST FOR DUMP BODIES
Joseph M. Gwinn, Jr., Dearborn, Mich., assignor to Gar Wood Industries, Inc., Wayne, Mich., a corporation of Michigan
Application October 13, 1949, Serial No. 121,106
5 Claims. (Cl. 298—22)

1. In a dump truck, the combination of a body having a pivotal axis, a rigid member extending downwardly from the body, an arm having a pivotal axis, when the body is in lowered position said arm extending from its pivotal axis toward the free end of the body and alongside the member but above the lower part of the member, a link pivoted at its upper end to the arm at a portion alongside the member and at its lower end to the lower part of the member, and means for applying a lifting force to the arm to pivot it



upwardly and toward the body pivot about its own pivot whereby the link is stressed in tension.

2,611,643
AUTOMATIC SPRINKLING DEVICE
Ralph V. Higgins, San Francisco, Calif.
Application September 26, 1947, Serial No. 776,395
4 Claims. (Cl. 299—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

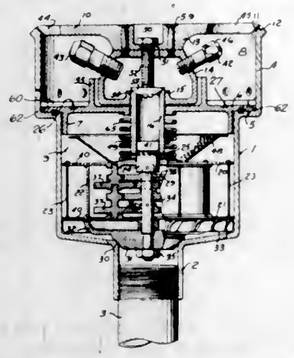


1. An irrigating apparatus including means for applying water to the soil, two electrodes inserted in the soil, a gaseous electronic discharge device including at least a thermionic cathode, an anode and a control grid, a transformer including at least a primary and a first and second secondary, said primary being connected to a source of alternating potential and inducing in said first and second secondaries a relatively high and relatively low alternating potential respectively, said first secondary being connected in series with said cathode, anode, and an electrical device for controlling said water applying means, means connecting at least part of the alternating potential of said second secondary across a series circuit including a resistor, said two electrodes and the soil between said two electrodes, means including a parallel connected resistor and condenser for connecting the junction between said resistor and one of said electrodes to said control grid, and means for connecting the end of said resistor remote from said one electrode to said cathode.

2,611,644
PROJECTABLE NOZZLE LAWN SPRINKLER
Harry J. McCombs Burdick, Anaheim, Calif.
Application July 25, 1949, Serial No. 106,688
11 Claims. (Cl. 299—61)

1. In a lawn sprinkler, a cylindrical casing open at the top and having at the bottom a co-

axial water inlet shaped to form a valve seat, a sprinkler head seated in the casing for axial movement therein and removable therefrom as a whole, said sprinkler head comprising, a rotor having a valve at the bottom thereof normally in contact with the valve seat of the water inlet, a coaxial nozzle support rotatable on said rotor but locked in position thereon against relative



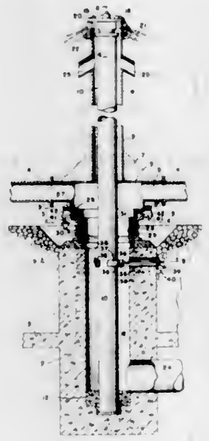
axial movement, and transmission gearing extending from the rotor to the nozzle support, water pressure causing the inlet valve to rise from its seat simultaneously to elevate the sprinkler head within the casing and to impart rotation to said rotor thereby through said gearing to rotate the nozzle support at a reduced rate of speed.

2,611,645
FLUID SPRAYING DEVICE
Benjamin Forman, North Stelton, N. J.
Application March 25, 1948, Serial No. 16,947
6 Claims. (Cl. 299—69)



1. A fluid spraying or diffusing device comprising a member having a fluid inlet, a rigid tube mounted for rotation on said member and having its inlet end in fluid-communication with said member, said tube being curved or bent in different directions along its length so that the passage of fluid therethrough causes the tube to rotate about an axis in line with the inlet end of the tube, and a flexible tube having one end secured to said member, said flexible tube surrounding said rigid tube and extending longitudinally of the latter for a substantial distance so as to flexibly move in conformity with the rotary motion of said rigid tube about an axis in line with the inlet end of said tube.

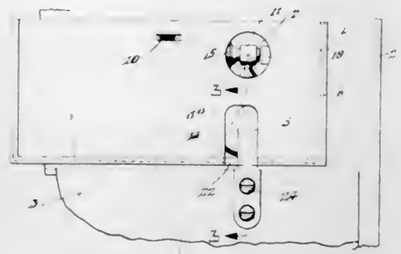
2,611,646
DISTRIBUTOR FOR TRICKLING FILTERS
John Herbert Knowles, Larchmont, N. Y., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware
Application November 20, 1947, Serial No. 787,165
4 Claims. (Cl. 299—69)



1. In a liquid distributor for filter beds and the like, the combination of a stationary supporting structure comprising a hollow central pier and a center post having its lower end anchored in said structure and having an upper portion above said hollow pier and having a lower portion centrally disposed in said hollow pier and separated from the inner wall of the pier by a vertically elongated annular liquid space above the anchored lower end of said central post, means engaging said post at a level intermediate the ends of the annular liquid space in said hollow pier and connecting said post to said pier and longitudinally adjustable relative to the pier to move the upper end of said post horizontally relative to the anchored lower end of the post, a rotative structure comprising liquid distribution pipes with inlets adjacent said post and with discharge outlets at different distances from said post, and also comprising a central liquid chamber above the annular liquid space within said pier and with an opening at its lower end through which said post extends and through which liquid passes from said annular space into said chamber and thence into said pipe inlets, an uprising annular sealing member mounted on said pier and a cooperating annular sealing member supported by said rotative structure and depending from a portion thereof surrounding the open lower end of said liquid chamber, and means for passing liquid into the annular space in said pier at a pressure high enough to move the liquid into said pipe inlets.

2,611,647
DOOR OPERATED SPRAY DEVICE
Paul J. Ash, Reading, Pa.
Application June 20, 1951, Serial No. 232,551
2 Claims. (Cl. 299—82.5)

1. A door operated device of the character described comprising a substantially rectangularly shaped casing, a removable cover at the front of said casing having two predeterminately located openings therethrough, an interchangeable container correspondingly rectangularly shaped to said casing so as to be predeterminately held nested at one end of said casing, a neck projecting from one end substantially at the top of said container, a spray head including a nozzle suspended from said neck and rotatably adjustable thereon to bring said nozzle in alignment with one



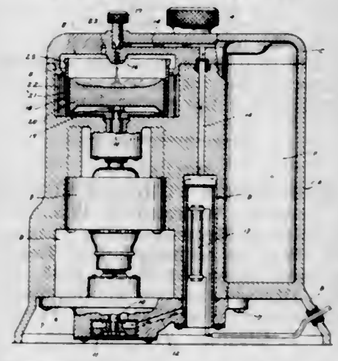
of the openings in said cover, a compressible bulb suspended from said spray head for operation thereof, and an operating member carried by the door for movement through the other of said openings in said cover into said casing for engagement and compression of said bulb during closing movement of said door.

2,611,648
SOAP DISPENSER
Carl A. Risher, Indianapolis, Ind.
Application February 28, 1950, Serial No. 146,863
5 Claims. (Cl. 299—83)



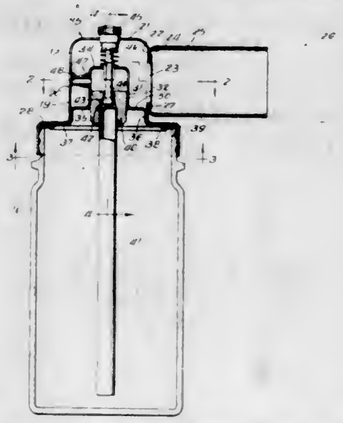
1. A soap dispenser comprising a tank adapted for containing a soluble detergent partially filling the tank, an inverted U-shaped tube in the tank and having inlet and outlet ends, a fitting at each end of the tube projecting downwardly through and connected to the bottom of the tank and supporting the tube in an upright position in the tank, means connecting the fitting for the inlet end of the tube to a water supply, said tube having an opening in the tank adjacent its inlet end for feeding water into and dissolving the detergent and also having an opening above the level of the detergent to agitate the dissolved detergent, and a controlled port in the tube admitting dissolved detergent therein from the tank for entraining with the flow in the tube.

2,611,649
METHOD FOR PRODUCING LATHER BY CENTRIFUGAL ACTION OF FLUID OVER A SOAP CAKE SURFACE
Gordon C. Johnson and Alden O. Johnson, Minneapolis, Minn., assignors to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application March 14, 1947, Serial No. 734,598
3 Claims. (Cl. 299—83)



1. The method of producing lather which is characterized by the steps of: rotating a cake of soap having an exposed face which is substantially perpendicular to the axis of rotation; admitting air directly to the exposed face of the soap cake; forcibly injecting a stream of liquid onto said face of the soap substantially coaxially therewith to thus enable centrifugal force due to rotation of the soap to move the liquid radially outwardly across said face of the soap in a thin film so that quantities of soap are dissolved in the liquid to form a soap solution; and abruptly deflecting the outwardly moving film of liquid as it leaves the soap to cause at least a portion thereof to be returned across the radially outer portion of said face of the soap to increase the concentration of the soap solution and to entrain air therein so as to initiate the formation of lather.

2,611,650
SPRAY GUN
George H. Palm, Chicago, Ill., assignor to Illinois Stamping & Mfg. Co., Chicago, Ill., a corporation of Illinois
Application January 24, 1948, Serial No. 4,111
10 Claims. (Cl. 299—89)



2. In a spray gun, a sprayer head comprising an outer shell having a discharge opening therein,

and an inner shell, there being air passageways between the shells, and a liquid passageway in the inner shell, a discharge nozzle secured to and projecting from the inner shell in coaxial alignment with the discharge opening, the lower end of the outer shell being formed with a radially extending wall terminating in a cylindrical flange provided with threads to secure the sprayer head upon the threaded neck of a jar, and the inner shell being formed with a radially extending wall terminating in a downturned wall conforming to and held in frictional contact with the wall of the outer shell, the downturned wall of the inner shell terminating in a radially extending wall contacting with the radial wall of the outer shell and formed with a flaring washer retaining edge portion.

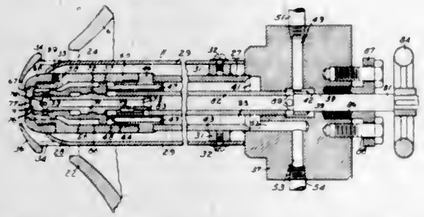
2,611,651

COMBUSTION TURBINE BURNER

Hans A. Altorfer, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Original application April 10, 1943, Serial No. 482,561. Divided and this application February 23, 1946, Serial No. 649,721

11 Claims. (Cl. 299—118)



7. In a fluid fuel burner, means defining a first fuel conducting passage terminating in a spray emitting orifice and a second fuel conducting passage communicating with said first passage through axially spaced ducts formed adjacent said orifice, a valve element disposed within and closing the orifice end of said first passage, said valve element being mounted for sufficient axial movement to close said orifice and the duct nearest said orifice, means for axially moving said valve element, and means including a bore in said element placing said first passage in continuous communication with the duct farthest from said orifice.

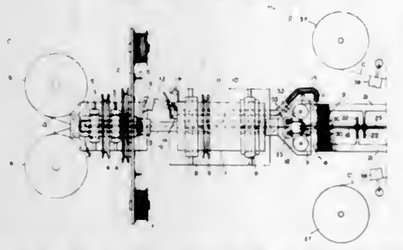
2,611,652

METHOD OF AND APPARATUS FOR MAKING BRUSHES

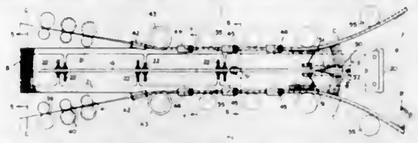
Ruben O. Peterson, University Heights, Ohio, assignor to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application September 20, 1948, Serial No. 50,108

21 Claims. (Cl. 300—21)



1. In a method of making a brush element of the type wherein stranded brush material is looped upon an extended retaining member, the steps which consist in supporting limited sections of a plurality of such members of indefinite length in substantially parallel, spaced relation, moving such sections of said members longitudinally in unison, winding the brush material around such sections of said members thus spaced



and while thus moving, movingly supporting the wound brush material intermediately of said members by supporting means traveling therewith, progressively securing such brush material to said members as wound thereon, and then severing such wound brush material along lines lying intermediately of said members.

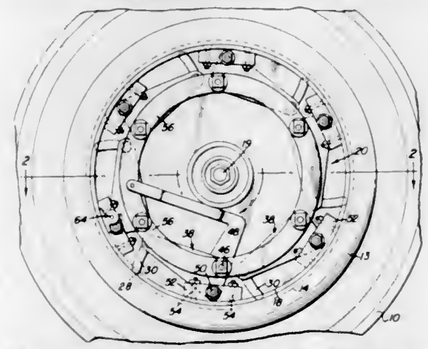
2,611,653

DEMOUNTABLE WHEEL ASSEMBLY

Cyril A. Humma, Kenhorst, Pa., assignor of thirty-three and one-third per cent to George Humma, Kenhorst, Pa.

Application March 14, 1950, Serial No. 149,594

3 Claims. (Cl. 301—9)



2. For use on a vehicle, a hub which includes a back plate which has a peripheral, cylindrical flange of uniform diameter extending therefrom, a rigid member located within said flange and arranged for displacement, a plurality of links disposed in said flange, each link being pivotally secured to said flange and pivotally secured to said member whereby upon displacement of said member, said links are pivotally operated, keepers carried by said links, a demountable rim disposed on the outer surface of said flange, said rim and said flange having aligned openings therein to accommodate said keepers, said openings being entirely through said flange and said rim so that said keepers pass entirely through said openings, means in addition to said keepers and openings for preventing relative rotation between said flange and said rim, said rotation preventing means including tongues and grooves interfitted and formed in said flange and said rim, a single one of said links having a lever connected therewith which is arranged to extend in a direction toward said flange and rim, said lever being adapted to be manually operated for displacing said member, and a manually operative locking device carried by the inner surface of said rim and engageable with the outer end of said lever to hold said lever in a fixed position with its outer end closely adjacent to said flange.

2,611,654

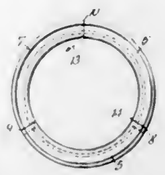
TRANSVERSELY DIVIDED, PLURAL-SECTION DEMOUNTABLE WHEEL-RIM

Jacob Willem Mÿnssen, Schaffhausen, Switzerland, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland

Application June 22, 1948, Serial No. 34,475

In Switzerland July 5, 1947

3 Claims. (Cl. 301—31)



1. A wheel rim structure consisting of a plurality of independent sections, each section having a rim bottom and two opposed rim flanges integral with the rim bottom, the sections contacting by means of straight butt joints and one at least of said butt joints extending askew of the rim bottom and the rim flanges whereby axial displacement of one of the two sections of said joint relatively to the other section results in shortening the peripheral length of the rim and permits one of the other sections to be pivoted away from the bead of a rubber tire to be mounted on the rim.

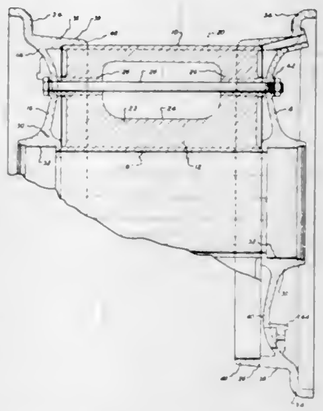
2,611,655

WHEEL STRUCTURE

Charles Hollerith, Jackson, Mich., assignor, by mesne assignments, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York

Application September 20, 1946, Serial No. 698,164

1 Claim. (Cl. 301—62)



A combination cast and forged wheel structure for supporting a pneumatic tire comprising a central cast section having outer cylindrical end rim portions and radially extending web portions connected with an inner cylindrical hub portion, one said web portion having an outwardly exposed recess therein, a forged end section for each said end rim portion, said end sections being formed to telescope over said end rim portions and having tire retaining flanges, and also having radially extending web portions joining inner hub portions, the thus overlapping end sections serving to strengthen the central cast section at the rim forming portion thereof, common axially extending tie rods extending between the radial web portions of said central section and the opposed radial web portions of the end sections and passing also through said central section, said tie rods having screw-threaded extremities passing through said recess on the one radial web of the central section, removable means constituting shoulder structure fixedly connected to said tie rod inwardly of the screw-threaded extremity of each said tie rod and located in said recess, whereby to hold the remote end section and the central cast section assembled by these rods and shoulder structures when the adjacent end section is demounted, and a further nut engageable with the outer end of the screw-threaded extremity of each said tie rod, whereby to hold the adjacent end section assembled, yet in a readily demountable manner.

2,611,656

AXLE CONSTRUCTION

Glen C. Vanderberg, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan

Application April 26, 1946, Serial No. 665,134

5 Claims. (Cl. 301—124)



1. An axle formed from a tubular member of uniform wall thickness comprising a central portion of vertically arranged oval section and of substantially the original wall thickness, intermediate arm portions of circular section and of increased wall thickness, end portions of reduced diameter and having a wall thickness substantially greater than that of said intermediate portions, and frusto-conical connecting portions between said end portions and intermediate portions increasing in wall thickness from said intermediate portions to said end portions, said axle having progressive sections thereof from the center toward the ends thereof increasing in wall thickness to provide a substantially uniformly decreasing deflection rate from the center to the ends of said axle.

2,611,657

SELF-SUSTAINING SCAFFOLD

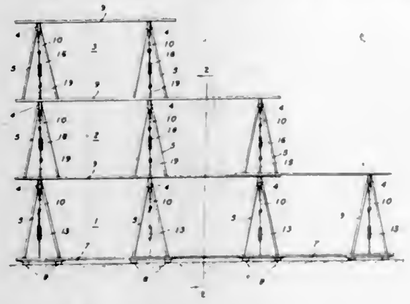
Edward Baylis Brittin, Washington, D. C.

Application December 6, 1951, Serial No. 260,167

8 Claims. (Cl. 304—2)

1. A self-sustaining scaffold comprising a lowermost stage of spaced trestles, each trestle consisting of a transverse beam and a plurality of legs secured thereto for supporting the beam, the adjacent trestles being positioned in parallel relation, a plank element positioned upon said transverse beams adjacent each end thereof, a second stage of trestles supported upon said plank elements in a manner to position the transverse beam of each trestle in the second stage directly above and parallel to a corresponding beam of the first stage of trestles; means for binding said stages together, said means comprising a vertically extending tension brace for interconnecting

each vertically spaced pair of beams; each brace comprising an adjustable coupling, said coupling including a member manually movable to vary the length of the coupling, a tension member extending from each end of the coupling, the



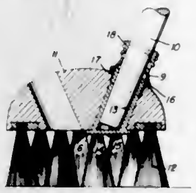
free end of each tension member being connected to a respective transverse beam whereby the coupling may be operated to pull the pairs of opposed transverse beams together and rigidly bind together both stages of trestles.

2,611,658

HANDLE FASTENER FOR BRUSHES AND THE LIKE

Leonard McGuire, Sioux City, Iowa

Application June 24, 1949, Serial No. 101,168
1 Claim. (Cl. 306—27)



A fastener for securing a handle to a body having a through bore therein, said fastener comprising a socket fitted in said bore and extending out of said body, said socket having an inner end with a circumferential flange thereon bearing against said body at one end of the bore to prevent the socket from pulling out of said bore, said socket at its other end being provided with resilient jaws adapted to clampingly engage a handle inserted in the socket, a split resilient locking ring on said jaws contractible against said jaws to clamp the same against said handle, said ring having a beveled edge wedging into one end of the bore to contract said ring, said ring being slidable on said jaws for wedging of said edge into said end of the bore, and rows of ratchet teeth spaced along said jaws for locking the ring wedged into said end of the bore in different positions of the ring along the jaws.

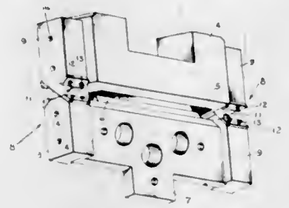
2,611,659

PIVOT AND BEARING ASSEMBLY

Harlan A. Hadley, Burlington, Vt., assignor to H. A. Hadley Associates, Inc., Burlington, Vt., a corporation of Vermont

Application January 28, 1949, Serial No. 73,269
12 Claims. (Cl. 308—2)

1. A pivot and bearing assembly comprising a block having a bearing surface, a block having a knife edge for engagement with said bearing surface, and means including cooperating pairs of flexure tapes operatively connected to



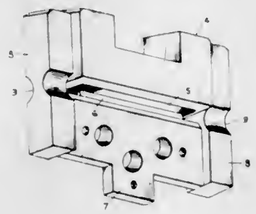
said blocks for maintaining said knife edge in predetermined relation to said bearing surface.

2,611,660

PIVOT AND BEARING ASSEMBLY

Harlan A. Hadley, Burlington, Vt., assignor to H. A. Hadley Associates, Inc., Burlington, Vt., a corporation of Vermont

Application January 28, 1949, Serial No. 73,270
23 Claims. (Cl. 308—2)



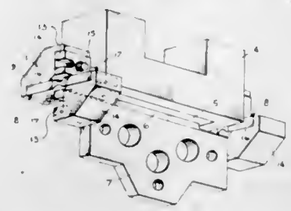
1. In a weighing scale having a pivot and bearing assembly, a flexure member, having end portions operatively secured to the pivot and the bearing of said assembly and an intermediate flexible web portion of elastic material connected to said end portions, for restraining the movement of the pivot relative to the bearing.

2,611,661

PIVOT AND BEARING ASSEMBLY

Harlan A. Hadley, Burlington, Vt., assignor to H. A. Hadley Associates, Inc., Burlington, Vt., a corporation of Vermont

Application March 7, 1949, Serial No. 80,025
12 Claims. (Cl. 308—2)



1. In a weighing scale having a pivot and bearing assembly, a flexure member for restraining the movement of the pivot relative to the bearing, said flexure member comprising an elastomer web and a metal block fixed to each end of said elastomer web and attached to said pivot and bearing assembly.

2,611,662

PIVOT AND BEARING ASSEMBLY

Harlan A. Hadley, Burlington, Vt., assignor to H. A. Hadley Associates, Inc., Burlington, Vt., a corporation of Vermont

Application May 4, 1949, Serial No. 91,266
18 Claims. (Cl. 308—2)



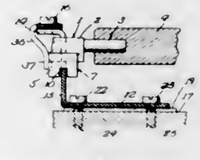
1. A pivot and bearing assembly for weighing scales comprising a bearing, a pivot having a knife edge in contact with said bearing, and means for maintaining said knife edge in operative relation to said bearing, said means comprising a block of resilient material in physical contact with said pivot and said bearing.

2,611,663

SELF-ALIGNING BEARING

James Leslie Foster, La Porte, Ind., assignor to U. S. Slicing Machine Company, Inc., La Porte, Ind., a corporation of Indiana

Application February 2, 1950, Serial No. 141,916
6 Claims. (Cl. 308—2)



1. A self-aligning bearing device of the class described comprising a bearing adapted to serve as a bearing for a pivot member, mounting means for said bearing comprising means laterally disposed with respect to said bearing and adapted to engage said bearing on at least two sides thereof when force is applied thereto, a base plate integrally associated with said laterally disposed means, means for supporting said base plate adjacent its edges and means for applying force to a central portion of said base plate thereby causing said laterally disposed means to move toward each other and provide a snug fit with said bearing.

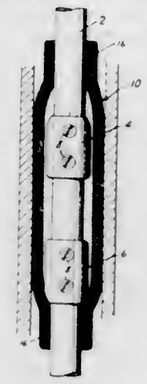
2,611,664

BOREHOLE APPARATUS CENTERING GUIDE

Gottdank L. Kothny, Strafford, Pa., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware

Application February 16, 1946, Serial No. 648,049
1 Claim. (Cl. 308—4)

Guiding means for centering bore hole apparatus comprising a one piece rubber member having tubular ends in alignment with each other and adapted to pass over said apparatus, said ends being joined by resilient elements arranged to assume normally outwardly bowed positions extending radially outwardly beyond the tubular ends, and means constructed and arranged to be located on said apparatus between said tubular ends and under said resilient elements for engagement with the inner portions of said tubular ends for mounting said member on the apparatus, said member being free to move axially of the apparatus for a sufficient extent so as to be engaged and pulled by said mounting means without the exertion of any pushing action on said resilient elements.

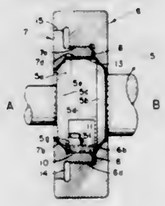


2,611,665

BEARING CONSTRUCTION

Charles F. Derbyshire, Chula Vista, Calif., assignor to The Ryan Aeronautical Co., a corporation of California

Application January 4, 1949, Serial No. 69,098
10 Claims. (Cl. 308—95)



1. In a bearing construction, a fixed shaft element having an enlarged diameter portion, bearing faces carried by said enlarged diameter portion, an outer rotating assembly comprising axially parting mating elements, bearing faces on each of said mating elements for engagement with the bearing faces on said fixed element arranged in such manner that both radial and axial loads are transmitted through said bearing faces from said rotating assembly to said fixed element and a lubricant reservoir formed by a segmentally recessed portion of said enlarged diameter portion of said fixed shaft element for the lubrication of said bearing faces.

2,611,666

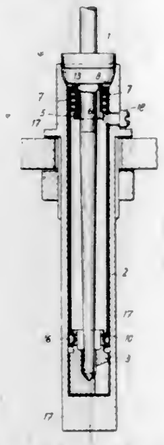
PLURAL-PART BEARING FOR SPINNING- AND TWISTING SPINDLES

Walter Hoffmann, Zurich, Switzerland, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland

Application April 12, 1949, Serial No. 87,097
In Switzerland January 14, 1949
6 Claims. (Cl. 308—152)

1. In a spindle, a blade, a spindle housing, a bolster seat toward one end of the housing, a bolster having a neck extending downwardly into said housing, said neck having a ruff spaced from the bolster proper, a sleeve fixed in said housing against longitudinal displacement, and overlapping the lower portion of the bolster neck,

said sleeve having an inwardly extending flange at its upper end spaced from the ruff, a coil spring mounted on the neck above the ruff, said neck having a recess formed therein and in the ruff through which recess the spring is screwed



to be mounted on the neck, the flange of the sleeve also having a recess through which the spring mounted on the neck is screwed in order to assemble the bolster and sleeve with the spring mounted between the flange of the sleeve and ruff of the bolster neck.

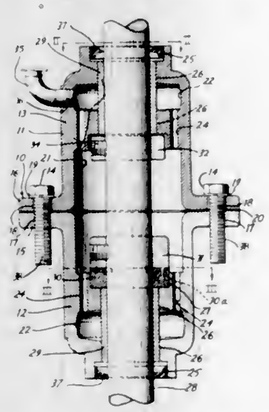
2,611,667

SEALED SLEEVE BEARING UNIT

Elmer A. Lampe, Chicago, Ill.

Application August 19, 1950, Serial No. 180,373

7 Claims. (Cl. 308—168)



1. A bearing assembly comprising a body member having two mating half-sections defining lubricant chambers therein, a sleeve bushing of porous bearing material fixedly disposed in each of said half-sections, a rotatable shaft positioned through said body member in bearing contact with said sleeve bushings, a thrust bearing insert fixedly disposed in at least one of said half-sections and disposed about said shaft, a thrust collar fixedly attached to said shaft adjacent said thrust insert to coact therewith to transmit thrust loads from the shaft to the body member, a retaining collar fixedly attached to said shaft for preventing substantial axial movement of the shaft in a direction tending to separate said thrust collar and said thrust insert, said thrust and retaining collars being disposed in such a position within said half-sections of the closed bearing assembly to allow removal of the mating half-sections over opposite ends of the shaft without moving of the collars, resilient lubricant sealing rings at each end of said bearing assembly to prevent the loss of lubricant therefrom, and means for introducing lubricant to the lubricant chamber within the closed bearing assembly.

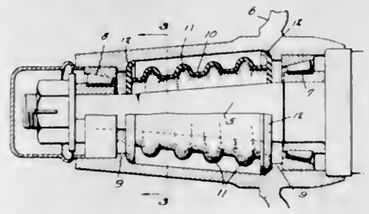
2,611,668

MOTOR VEHICLE FRONT WHEEL LUBRICATING DEVICE

Porter D. Douglass, Boulder, Colo.

Application February 10, 1950, Serial No. 143,582

3 Claims. (Cl. 308—187)



1. The combination with the spaced bearing races of a spindle and wheel hub operating on the spindle, of a lubrication control mechanism comprising an expansible tubular member fitted on the spindle encasing the spindle between the bearing races and being expansible longitudinally of the spindle towards the bearing races, and discs formed at the ends of the tubular member engaging said wheel hub and spindle housing forcing lubricating material packed around the bearings, into said bearings.

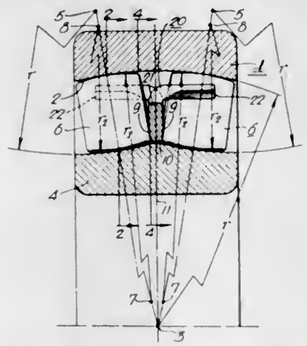
2,611,669

MULTIROW ROLLER BEARING

Per Gunnar Palmgren, Philadelphia, Pa., assignor to SKF Industries, Inc., Philadelphia, Pa., a corporation of Delaware

Application February 16, 1948, Serial No. 8,491

9 Claims. (Cl. 308—213)



1. In a roller bearing, inner and outer members having confronting roller races and rows of rollers operating on said races, and a cage having separator elements for the rollers of both rows and a portion intermediate said rows constituting a thrust bearing for said rollers, said intermediate portion extending radially into proximity to the said inner member and being formed so that contact between the rollers and said intermediate portion shall be confined to the area of said portion adjoining the inner member.

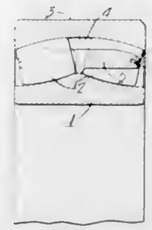
2,611,670

ROLLER BEARING CAGE WITH CLOSED-IN FACE SLOT

Per Gunnar Palmgren, Philadelphia, Pa., assignor to SKF Industries, Inc., Philadelphia, Pa., a corporation of Delaware

Application March 21, 1949, Serial No. 82,590

5 Claims. (Cl. 308—217)



1. A roller bearing cage having projecting relatively spaced arms forming therebetween an open ended roller receiving pocket, the confronting faces of said arms being concave and defining the opposite sides of a common cylinder whose axis extends longitudinally of and between the arms, and the outboard end of at least one of said arms having a slot intersecting the said concave surface of the arm, said slot forming a tang on the said outboard end of the arm adapted for displacement in a direction to close the slot and when so displaced projecting into the side of the cylindrical pocket space to thereby obstruct the open end of the pocket.

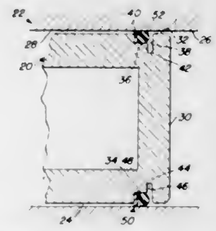
2,611,671

FLUID SEAL ASSEMBLY

Emil F. Jirsa, Waterloo, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa

Application April 5, 1951, Serial No. 219,477

9 Claims. (Cl. 309—23)



1. A fluid seal assembly, comprising: a member adapted to be carried for movement relative to a fixed part having an inner cylindrical surface, said member having a circular end face and an outer cylindrical surface for tolerably fitting the inner cylindrical surface of the fixed part and concentric with and extending axially back from said end face, said outer surface and said end face having like diameters; said member having therein an annular groove including a bottom and first and second annular radial walls, said first radial wall adjoining said outer surface of the member and being spaced back from the end face an axial distance only a relatively small fraction of the diameter of said end face, and said second radial wall being spaced axially more remotely from said end face; an endless, nonstretchable ring adapted to be installed in the groove and having an axial thickness materially less than the axial spacing between said radial walls so as to be axially shiftable between said walls when installed in the groove, said ring being of distortable material so as to be capable of deformation to oval shape and having an inside diameter tolerably equal to the diameter of the bottom of the groove and less than the diameter of the end face by an amount sufficient to preclude installation of said ring over said end face even when partly received in the groove and deformed to oval shape; and said member having a radially inwardly directed recess communicating with the bottom of the groove adjacent the first radial wall and of axial width but slightly greater than the axial thickness of the ring so that the ring can be hooped over a segment of the end face and into said recess, said recess being of sufficient depth to accommodate the hooped portion of the ring to such an extent that by deformation of the ring to oval form it may be slipped over said end face and subsequently seated on the bottom of the groove.

2,611,672

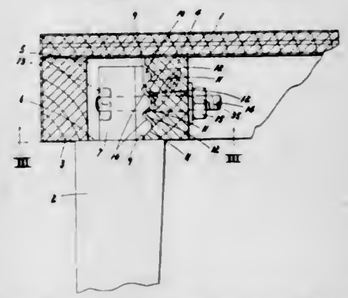
LATERAL MOVING TABLE LEG FASTENER

Folke Ohlsson, Malmo, Sweden, assignor to Kocks Snickerifabriker Aktiebolag, Trelleborg, Sweden, a corporation of Sweden

Application March 23, 1948, Serial No. 16,565

In Sweden December 3, 1947

4 Claims. (Cl. 311—112)



1. A piece of furniture comprising a body portion and mountable and removable leg means, a plurality of parallel bearing surfaces on each of said leg means inclined with respect to the longitudinal direction of the associated leg means, a plurality of coacting similarly inclined bearing surfaces on said body portion, the sets of bearing surfaces being slightly displaced with respect to one another, means for exerting a force on each of said leg means obliquely to the sets of inclined coacting bearing surfaces and to the longitudinal direction of said leg means and pressing said inclined bearing surfaces together, co-operating stop surfaces on said leg means and said body portion forming angles with said inclined bearing surfaces, said stop surfaces being pressed against each other upon sliding of the sets of said bearing surfaces with respect to one another in response to said force.

2,611,673

DISPENSING MECHANISM FOR CYLINDRICAL ARTICLES

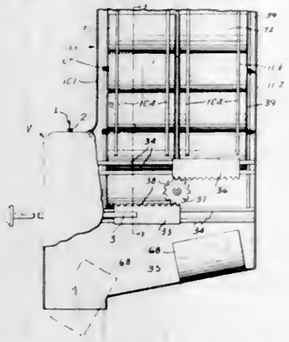
Charles W. Riise, Berkeley, Calif.

Application November 22, 1946, Serial No. 711,568

3 Claims. (Cl. 312—48)

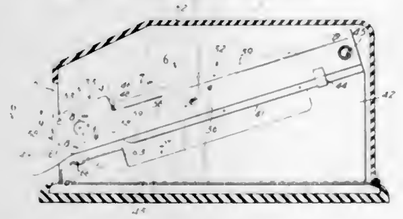
1. In package dispensing apparatus, a support having a pair of vertical portions in each of which a vertical column of packages is adapted to be positioned, the packages being in superimposed relation and free to subside gravitationally in said support portions, a chute beneath both of said support portions into which the lowermost

packages of the columns can fall, retaining means mounted on said support, said means comprising a pair of stops arranged in vertical spaced relation, means mounting said stops for endwise movement in separate horizontal paths, said stops normally occupying positions in which they are in supporting engagement with the lowermost packages of the columns and prevent such packages from falling into said chute, and operating means connected to said stops for simul-



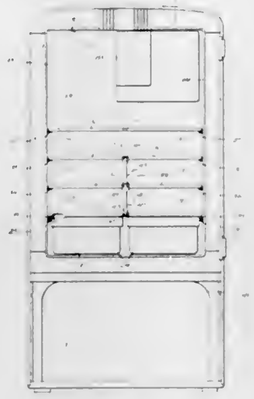
taneously moving said stops in their separate paths in opposite directions so as to remove one of the pair of said stops from supporting engagement with the lowermost package of one of the pair of columns and permit such package to fall into the chute and to shift the other of the pair of stops into position for supporting engagement with the lowermost package of the other of the pair of columns, said stops having racks thereon, said operating means comprising a pinion positioned between said stops and meshed with said racks, and a rod connected to one of said stops for moving said one stop lengthwise of its rack.

2,611,674
CLIP STORING AND DISPENSING DEVICE
Hugo W. Kruse, Rockford, Ill.
Application April 24, 1948, Serial No. 23,073
12 Claims. (Cl. 312—63)



1. In a dispenser for paper clips and the like, a support, a member for supporting a plurality of clips and mounted on said support, one end of said member being lower than the opposite end, said member having an upwardly extending transverse shoulder formed thereon disposed towards its lower end for retaining the clips thereon and having a longitudinal slot extending on both sides of said shoulder to form spaced side portions adjacent its lower end, means disposed in said slot and formed with a clip engaging portion movable upwardly at the side of said shoulder at which the clips are retained to engage the clip immediately adjacent the shoulder, and means disposed in said slot for moving said last means to move said clip over the shoulder to a position in which the clip passes over the spaced side portions at the lower end of said member.

2,611,675
SHELF ARRANGEMENT FOR REFRIGERATORS OR THE LIKE
John S. Palmer, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application May 9, 1947, Serial No. 746,915
3 Claims. (Cl. 312—351)

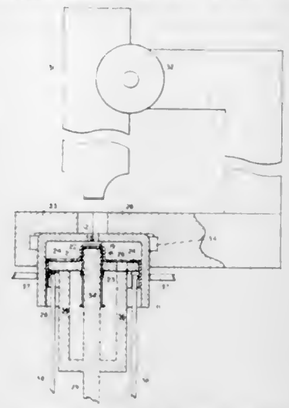


2. A shelf construction for a cabinet or the like having spaced apart, vertical side walls, comprising: a first shelf extending across the cabinet between the side walls thereof; means supporting the wall-adjacent edges of the shelf on the walls; a second shelf paralleling the first vertically spaced therefrom and including a pair of separable sections; means removably supporting the wall-adjacent edges of the second shelf sections on the walls, the inner edges of said sections being closely spaced apart; forwardly projecting pin means at the front edge of the first shelf proximate a central portion thereof providing a supporting element; means on the front edge of each section adjacent the inner edge thereof including a forwardly projecting pin, said shelf section pins being substantially in vertical alignment with the pins on the first shelf; and means for supporting the inner edges of the second shelf sections from the first shelf, including a supporting link member having openings at one end to receive the first shelf pins and a pair of openings and a pair of slots at the other end whereby in one position the latter openings receive the pins of the sections and support said sections below the first shelf and in another position the slots receive the pins of the sections and support said sections above the first shelf.

2,611,676
CATHODE GRID ASSEMBLY
Eric Pohle, Clifton, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Original application May 13, 1950, Serial No. 161,793. Divided and this application October 20, 1951, Serial No. 252,371
4 Claims. (Cl. 316—23)

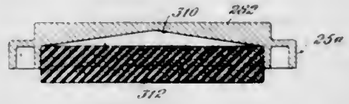
1. The method of making a cathode grid assembly for a cathode ray tube which consists in forming a grid in the form of a cylinder closed at one end with an aperture centrally located in said closed end, forming a cathode in the form of a cylinder closed at one end, coating the outer surface of the closed end of said cathode, inserting said cathode coaxially within said grid with the respective closed ends in the same longitudinal direction, optically focussing on the closed

end of said grid, thereafter optically focussing on a point in space through said aperture at a pre-



determined desired distance therefrom, and longitudinally positioning said cathode on said point in space.

2,611,677
RECORDER BAR SUSPENSION FOR FACSIMILE RECORDERS
Milton Alden, Wellesley, Mass.
Application January 3, 1950, Serial No. 136,512
7 Claims. (Cl. 346—74)



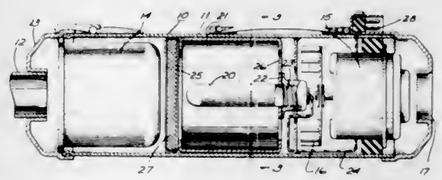
1. For use in a recorder of the type having a rotatable helix electrode, a stationary electrode assembly comprising a supporting housing; a recorder bar pivotally attached to said housing; and a block of yieldable material interposed between the housing and the bar, one of the adjacent faces of the block and housing being cambered so that, when the block is not deformed, only the ends thereof are in contact with the housing, the faces abutting, as the block is compressed by the action of the helical electrode, to apply a substantially constant pressure between the helical electrode and the recorder bar.

CHEMICAL

2,611,678
TRANSPARENTIZING TO OBTAIN PATTERNED COTTON TEXTILES EMPLOYING RESISTS OF PIGMENT CONTAINING AQUEOUS OLEAGINOUS EMULSIONS
Heinz Ginzel, Dornbirn, Vorarlberg, Austria
No Drawing. Application July 11, 1947, Serial No. 760,513. In Germany October 18, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires October 18, 1961
7 Claims. (Cl. 8—115)

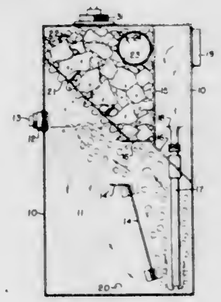
1. A process for producing patterns on a cotton textile comprising the steps of printing a pattern on the textile with a composition comprising an acid stable mineral pigment and an aqueous emulsion of an oleaginous substance, the oleaginous substance being the sole pigment binding agent present, drying the printed textile, and thereafter treating the printed textile with an acid transparentizing agent, whereby the nonprinted portion of the textile is transparentized and the pigment is bonded to the printed portion thereof, and thereafter washing the textile to remove the unbound surplus of pigment.

2,611,679
AIR TREATMENT DEVICE
Whyatt H. Haulenbeek and Willis F. Sanford, Lakewood, Ohio
Application May 19, 1944, Serial No. 536,278
5 Claims. (Cl. 21—127)



1. In a vacuum cleaner having electrical terminals adapted to be energized by a source of current and having a hollow casing with dust collection means in one end and a motor and a fan driven thereby in the other end to drive air through the dust collection means in the casing, the improvement for treating the air, said improvement comprising germicidal lamp means, bracket means for supporting the lamp means in the casing intermediate the dust collection means and the motor-driven fan, and means for energizing the lamp means and the motor from the electrical terminals.

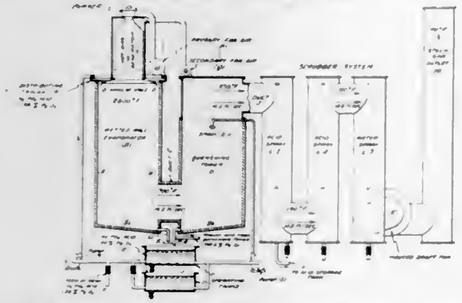
2,611,680
EXHAUST GAS CONDITIONING METHOD
Joseph P. Ruth, Denver, Colo.
Application January 16, 1950, Serial No. 138,801
6 Claims. (Cl. 23—2)



1. The method of conditioning internal combustion engine exhaust gases to non-hazardous and unobnoxious form free from entrained solids and acidic constituents which consists of introducing the gases under the influence of their discharge pressures into the lower portion of a liquid body associated with and disposed to wet the surfaces of an intersticed alkaline diffusing medium insoluble in the liquid of the body and soluble in the characteristic acidity of the gas-liquid mixture, agitating said liquid body in reaction to the gas input flow to dissolve the soluble gas constituents in the liquid and to wash the resulting gas-liquid mixture through the inter-

stices of the diffusing medium with neutralizing effect on the acidity of the gases, collecting the condensate resulting from such agitation in the liquid body, and liberating the undissolved gases.

2,611,681
PROCESS OF CONCENTRATING PHOSPHORIC ACID
Burdette W. Bellinger, Tampa, Fla., assignor to Tennessee Corporation, New York, N. Y., a corporation of New York
Application December 1, 1948, Serial No. 62,951
3 Claims. (Cl. 23—165)

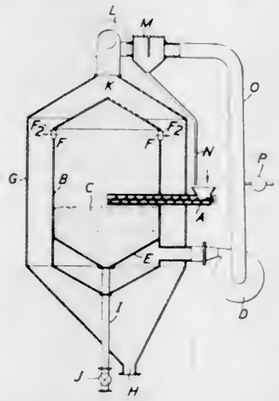


1. The improved process of concentrating liquid phosphoric acid from about 20% P_2O_5 to about 50% P_2O_5 with a small loss of phosphorus pentoxide which is evolved to the atmosphere as a dense white cloud of phosphoric acid mist in conventional concentration comprising introducing a feed of weak liquid phosphoric acid to be concentrated having a concentration of about 22% P_2O_5, mixing said liquid acid with recirculation acid having a concentration of about 46% P_2O_5 to form a liquid acid mixture having a concentration of about 44% P_2O_5, introducing said liquid acid mixture tangentially to a wetted wall distributing trough at several points in order to maintain a liquid velocity within the trough capable of preventing settling out of solids and separation of foam, causing said liquid acid mixture to flow from said trough uniformly over a wetted wall as an uninterrupted stream having a continuous surface film, subjecting said liquid acid to the direct action of hot burning gases having a high temperature of the order of about 2000° F. to evaporate a major portion of water to be evaporated and to concentrate said liquid acid mixture to about 46% P_2O_5 for recirculation without localized volatilization and dehydration and without substantial losses of P_2O_5 normally evolved in dense white clouds of phosphoric acid mist in conventional concentration, and spraying recirculation acid as a downwardly falling liquid spray countercurrent to rising hot gases having a temperature not higher than 700° F. to evaporate a minor portion of water to be evaporated and to produce a concentrated liquid phosphoric acid having a concentration of about 47.6% P_2O_5, without the emission of a dense white cloud of phosphoric acid mist and without the loss of phosphorus pentoxide.

2,611,682
METHODS OF RECOVERING HYDROGEN SULFIDE FROM SULFIDE CONTAINING SODA LIQUORS OBTAINED IN CELLULOSE PRODUCTION
Nils Viktor Mannbro, Fredriksberg, Sweden
No Drawing. Application December 4, 1950, Serial No. 199,156. In Sweden December 7, 1949
4 Claims. (Cl. 23—181)

1. A method of recovering hydrogen sulfide from a sodium sulfide and sodium carbonate containing solution of soda smelt resulting from the regeneration of sodium containing cellulose waste liquors, which comprises passing the solution and a carbon dioxide containing gas in counterflow through an absorption tower and adjusting the ratio of the amount of carbon dioxide containing gas introduced to the amount of solution introduced in such manner that hydrogen sulfide liberated in the lower part of the tower is reabsorbed in the top part of the tower by the sodium carbonate of the freshly introduced solution, withdrawing a gas mixture substantially free from both carbon dioxide and hydrogen sulfide at the top of the tower, withdrawing at the bottom of the tower an acidified liquor containing substantially the total amount of sulfur of the solution introduced, and recovering hydrogen sulfide from said acidified liquor in a subsequent step.

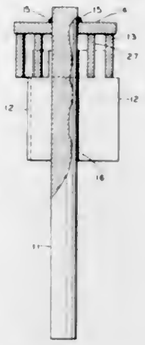
2,611,683
HYDRATION OF LIME
Norman Victor Sydney Knibbs, Longfield, England
Application December 1, 1948, Serial No. 62,897
In Great Britain December 2, 1947
4 Claims. (Cl. 23—188)



1. A process for hydrating lime which comprises forming a fluidized bed by mixing with crushed lime a proportion of water adjusted so that the excess over that required to form the hydrate will be vaporized by the exothermic heat of hydration, passing an inert gaseous medium through the fluidized bed of solid particles thus formed from beneath the bed to augment and maintain the fluidized state and carry the finer of the fluidized particles to a zone above the bed containing the fluidized crushed lime, separately collecting the said finer particles by withdrawing them while in suspension above the bed into a separating zone adjacent the reaction zone, and maintaining a temperature sufficient to prevent condensation of water vapor until after the said separation.

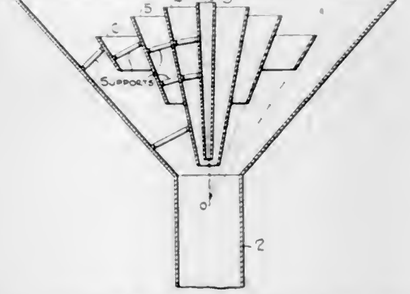
2,611,684
CATALYST SUPPORT
Robert E. Heffner, Borger, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 4, 1950, Serial No. 136,735
7 Claims. (Cl. 23—288)

1. A contact chamber comprising in combination a tube, in general vertically disposed and having an inlet for fluid at one end and an outlet for fluid at the other end, a header attached to the bottom of said tube for inlet and outlet of fluid, a header attached to the top of said tube for outlet and inlet of fluid, a support for solid catalyst in said tube comprising an elongated rod disposed axially with respect to said tube, a plu-



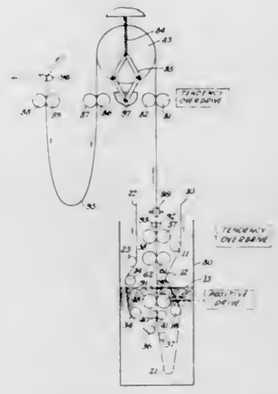
rality of radially disposed elongated guide flanges attached at spaced intervals around said rod and near its top, a plurality of concentric rings resting in corrsponding grooves in the top of said guide flanges, and a diametrically disposed cross member above said concentric rings and said cross member attached to said axial rod.

2,611,685
FLUID DISTRIBUTOR FOR VESSELS
Richard J. Yoder, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 22, 1950, Serial No. 197,125
4 Claims. (Cl. 23—288)



1. In combination with a cylindrical reaction vessel, having an inverted cone-shaped bottom portion, and an inlet conduit opening into said portion, all having a common axis, an improved means for distributing flow into said vessel from said conduit by way of said bottom portion, comprising a concentric series of inverted, hollow, truncated cone elements disposed within said bottom portion coaxially with relation to each other and to said vessel, bottom portion and inlet conduit, and in circumferentially spaced relation to each other and to said bottom portion, wherein the projected apex of each of said elements is a single point, lying in said common axis, and wherein the larger base edge of each element in said series is equidistant from said single projected apex point.

2,611,686
APPARATUS FOR TRANSFERRING AN EMULSION LAYER FROM A PERFORATED FILM STRIP
John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 17, 1948, Serial No. 8,864
28 Claims. (Cl. 41—1)



1. In an apparatus for transferring an emulsion layer from a perforated film strip to another similarly perforated strip, pressure means for bringing the film strips into intimate contact prior to their registration, a positively-driven sprocket for registering the superposed film strips, and a second driven sprocket spaced from the first and biased to maintain the superposed film strips under tension in the interval of travel of the films between said spaced sprockets.

2,611,687
HOOD ORNAMENT CONSTRUCTION
Raymond L. Logue, Detroit, Mich., assignor to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada
Application June 9, 1950, Serial No. 167,215
1 Claim. (Cl. 41—10)



An assembly comprising first and second members, one of said members having an elongated opening therein, the other of said members having a complementary projection received within said opening, means providing a pair of longitudinally extending grooves within said opening in and along the opposite sides of said projection, means forming a pair of longitudinally extending shoulders within said opening on the other of said members adjacent said grooves and on opposite sides of said projection, and a resilient U-shaped locking member having a pair of elongated transversely flat parallel legs received within said grooves and against said shoulders to hold said first and second members together, said legs being distorted in longitudinally extending spring waves to resiliently engage said grooves and shoulders and prevent separation of said first and second members.

2,611,688
SEPARABLE AND COLLAPSIBLE ARTICLE SIMULATING A CHRISTMAS TREE
Marie Fridinger, Vienna, Austria
Application June 12, 1948, Serial No. 32,688
In Austria October 10, 1947
2 Claims. (Cl. 41—15)



1. In an article simulating a Christmas tree, comprising a trunklike post narrowed toward the upper end, and branched structures, the branched structures being of starlike shape and gradually changing diametrical dimensions, the post supporting the branched structures in an axially spaced relationship, the largest branched structure being at the bottom, and each next smaller branched structure being over the next larger one, each branched structure being provided with a center hole, the center hole of each branched structure corresponding to a different section through said post, each larger branched structure being provided with a larger hole, the branches of each branched structure being creased along their center lines, the portions alongside the creases being turned downwardly, the post and branched structures being made of blanks of foldable sheet material, the post being formed by fastening together the radial edges of the substantially sector-like post blank, the post and branched structures being assembled by slipping the largest branched structure first over the post and each next smaller branched structure next, the post and branched structures, upon disassembly of the article, being adapted to be flattened.

2,611,689
ARTICLE FOR POLISHING
Philip W. Porter, Higganum, Conn., assignor to D. & H. Scovil, Inc., Higganum, Conn., a corporation of Connecticut
No Drawing. Application September 6, 1949, Serial No. 114,275
9 Claims. (Cl. 51—298)

9. A polishing implement comprising a body having a flexible surface, a polishing layer adhering to said surface, said layer including abrasive particles dispersed in an adhesive matrix comprising by weight about 2.24 to 20% of polyvinyl acetate, 65 to 40% alkali-silicate, .5 to 6% sodium carboxymethylcellulose, 26 to 16% clay, and 4.5 to 2.0% sorbitol.

2,611,690
BALL-PEENING AND CLEANING SHOT
Richard Schneidewind, Ann Arbor, Mich., assignor to Industrial Metal Abrasive Company, Jackson, Mich., a corporation of Michigan
No Drawing. Application February 16, 1946, Serial No. 648,199
1 Claim. (Cl. 51—309)

An improved cast-iron ball-peening shot of high hardness and toughness characterized by a microstructure containing a large portion of stabilized, hard, metallic carbides in spheroidized form in a suitable matrix in the substantial absence of graphitic carbon.

2,611,691
PROCESS OF PRODUCING A COMPOUND FERTILIZER
Heinrich Tramm, Speldorf, Germany, assignor to Ruhrchemie Aktiengesellschaft, Oberhausen-Holten, Germany, a German joint-stock company
No Drawing. Application May 23, 1949, Serial No. 94,930. In France June 4, 1948
5 Claims. (Cl. 71—37)

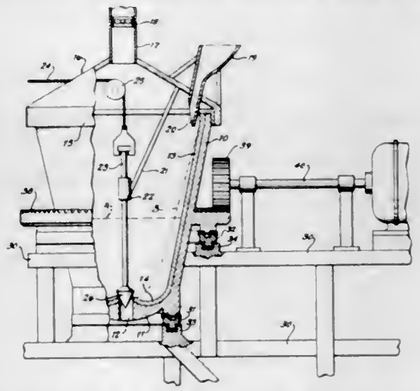
3. A process for producing a substantially dry, non-caking, permanently well-spreadable fertilizer containing phosphoric acid and nitrogen both as a nitrate and as an ammonium compound which comprises reacting a substantially dry solid initial material containing tricalcium phosphate and calcium carbonate with concentrated sulfuric acid in approximately an amount theoretically required for the conversion of the tricalcium phosphate into dicalcium phosphate with the production of calcium sulfate and of the calcium carbonate into calcium sulfate while agitating, the concentration of the sulfuric acid being such that the water added therewith is combined with the calcium sulfate as water of crystallization and a substantially solid reaction mixture obtained, acting on the reaction mixture while continuing agitation with concentrated nitric acid in approximately an amount theoretically required to convert the components of the reaction mixture into a damp product containing monocalcium phosphate and calcium nitrate, mixing said damp product with sufficient solid ammonium sulfate to theoretically convert substantially all the hygroscopic calcium nitrate into non-hygroscopic ammonium nitrate and a further quantity of calcium sulfate, the concentration of the nitric acid being such that the water added with the nitric acid will combine with the further quantity of calcium sulfate as water of crystallization thus producing a substantially dry product and acting on the resulting product with the quantity of ammonia gas required to convert the monocalcium phosphate into dicalcium phosphate and diammonium phosphate and produce a pH in the final product of less than 7.

2,611,692
PROCESS FOR THE PRODUCTION OF ALNICO INGOT FROM MANUFACTURING WASTES
Marvin Pesses, Rock Island, Ill., assignor to Alter Company, Davenport, Iowa, a corporation of Iowa
No Drawing. Application January 14, 1952, Serial No. 266,452
5 Claims. (Cl. 75—53)

1. The method of reclaiming scrap ferrous alloy metal containing aluminum and nickel, contaminated with impurities in the form of metal oxides, including aluminum oxides, which method comprises melting said scrap metal with aluminum in amount sufficient to react with the metal oxide impurities, exclusive of aluminum oxide, together with sodium oxide and silica in amount sufficient to form a low melting sodium aluminum silicate with the aluminum oxide present in said scrap and produced by reaction of said aluminum, holding said melt at a temperature above three thousand degrees (3000°) Fahrenheit, separating the flux formed from the molten metal, and casting the metal so reclaimed.

2,611,693
METHOD FOR REFINING MOLTEN METAL
Wallace Thomas Geyer, Mount Rainier, Md.
Application March 31, 1948, Serial No. 18,183
1 Claim. (Cl. 75—58)

The method of producing substantially pure iron consisting in centrifuging a mass of molten iron to create an inner paraboloid face thereon, then reducing all compounds of iron in said mass by continuously applying molten aluminum to the upper edge of said paraboloid face allowing said molten aluminum to gravitate slowly along



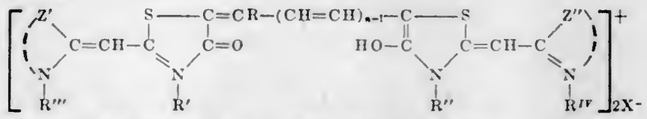
the surface of the revolving mass whereupon said molten aluminum reacts with all compounds of iron in the mass to form the free iron metal, and removing the aluminum compounds from the bottom of the paraboloid face.

2,611,694
FIRE RESISTANT SHEET MATERIAL
Hubert Leopold Becher, Trenton, N. J., assignor to Homasote Company, Incorporated, Fernwood, N. J., a corporation of New Jersey
No Drawing. Application June 27, 1947, Serial No. 757,663
6 Claims. (Cl. 92—3)

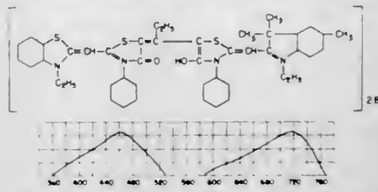
1. A fire-resistant felted fibrous sheet material containing from 40 to 60% by weight of fiber, from 20 to 40% by weight of amine resin, from 4 to 12% by weight of a chlorinated resin, and from 12 to 20% by weight of hydrated alumina.

2,611,695
PHOTOGRAPHIC EMULSIONS CONTAINING UNSYMMETRICAL TETRANUCLEAR CYANINE DYES
Thomas R. Thompson, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Original application December 21, 1948, Serial No. 66,575, now Patent No. 2,518,731, dated August 15, 1950. Divided and this application April 30, 1949, Serial No. 90,712
4 Claims. (Cl. 95—7)

1. A photographic gelatino silver-halide emulsion containing an unsymmetrical tetranuclear cyanine dyestuff of the following general formula:

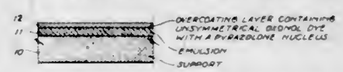


wherein n represents a positive integer of from 1 to 3, R is selected from the class consisting of hydrogen and lower alkyl, R being only lower alkyl when n represents 1, R′ and R″ are selected from the class consisting of lower alkyl, allyl, aryl and aralkyl groups of the benzene and naphthalene series R‴ and R^{IV} are selected from the class consisting of lower alkyl, lower hydroxyalkyl, lower alkoxyalkyl, aryl and aralkyl groups of the benzene and naphthalene series, X represents an acid radical, Z′ and Z″ represent the

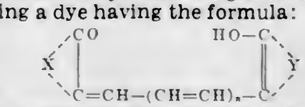


atoms necessary to complete a heterocyclic nitrogenous system, and wherein at least one of the groups of radicals R′—R″ and Z′—Z″ are dissimilar.

2,611,696
PHOTOGRAPHIC ELEMENT CONTAINING UNSYMMETRICAL OXONOL FILTER AND ANTIHALATION DYES
Grafton H. Keyes and Leslie G. S. Brooker, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 17, 1947, Serial No. 722,739
4 Claims. (Cl. 95—8)



1. A photographic element comprising a support having thereon at least one sensitive silver halide emulsion layer and a light absorbing layer containing a dye having the formula:

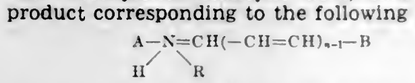


where X represents the atoms necessary to complete a nucleus of the class consisting of 1-ethyl-barbituric acid, 1,3-diethyl-barbituric acid, 1,3-di-p-phenetyl-barbituric acid, 1,3-diethyl-2-thiobarbituric acid, 1,3 - diphenyl - 2 - thiobarbituric acid, isoxazolone and indandione, Y represents the atoms necessary to complete a pyrazolone nucleus and n is a digit from 0 to 1.

2,611,697
LIGHT-SENSITIVE PHOTOGRAPHIC ELEMENT
René Adriaan Stevens, Antwerp, Laurent Aloys Van Der Auwera, Mortsel-Antwerp, and Désiré Maria Aloysius Van Goethem, Kontich, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium
No Drawing. Application April 15, 1947, Serial No. 741,684. In Germany April 22, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 22, 1962
3 Claims. (Cl. 95—8)

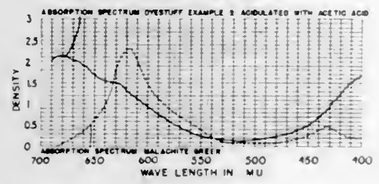
1. Photographic material containing at least one light-sensitive silver halide emulsion layer and a colored non-sensitive layer including the reaction product of a basic azomethine dyestuff, obtained by condensing in equimolar proportions an aldehyde selected from the group consisting of p-dimethylaminobenzaldehyde and p-dimethylaminocinnamic aldehyde, and anthranilic acid,

with methylene disalicylic acid, said reaction product corresponding to the following formula:

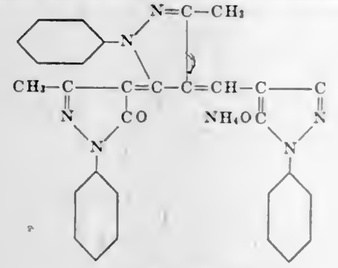


wherein A represents the atoms necessary to complete with H benzoic acid, B represents the atoms necessary to complete with OHC— an aldehyde selected from said group of aldehydes, R represents the atoms necessary to complete with H methylene disalicylic acid, the radical of the latter acid being linked to the N-atom so that the salt-forming OH remains intact, and *n* represents a positive integer of from 1 to 2.

2,611,698
COLORED PHOTOGRAPHIC LAYER
Jacob Joseph Jennen, Antwerp, Belgium, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium
Application August 4, 1947, Serial No. 766,099
In Germany May 22, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires May 22, 1961
5 Claims. (Cl. 95—8)



1. A sensitive photographic element comprising a support having thereon a light-sensitive silver halide emulsion layer and a filter layer containing a dyestuff of the following formula:



2,611,699
REGENERATION OF EXHAUSTED SILVER BLEACHING SOLUTIONS
Robert H. Zappert, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 30, 1949, Serial No. 136,145
10 Claims. (Cl. 95—88)

1. In the photographic process of bleaching a metallic silver image to silver halide with a bleach solution comprising an alkali metal bromide and ferricyanide whereby the silver in the silver image is oxidized to silver ions which combine with the halide ions of the solution and form a silver halide in the emulsion and a relatively small amount of the ferricyanide is reduced to ferrocyanide, and then regenerating the spent bleaching solution by adding a regenerating agent, the improvement wherein said regenerating agent is a material selected from the group consisting of an alkali metal hypobromide, a mixture of alkali metal bromate and hydrobromic acid in the molar ratio of 1 to 6, and a mixture comprising an alkali metal bromate and an alkali metal bromide in the molar ratio of 1 to 5, the amount of said material being such as that which will release one molar equivalent of bromine for each molar equivalent of ferrocyanide ion present in the exhausted bleach solution.

2,611,700
REGENERATION OF EXHAUSTED SILVER BLEACH SOLUTIONS BY MEANS OF N-BROMO COMPOUNDS
August H. Brunner, Jr., and Robert H. Zappert, Binghamton, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 30, 1949, Serial No. 136,146
12 Claims. (Cl. 95—88)

1. In the photographic process of bleaching a metallic silver image to silver halide with a bleach solution comprising an alkali metal bromide and an alkali metal ferricyanide whereby the silver in the silver image is oxidized to silver ions which combine with the halide ions of the solution and form a silver halide in the emulsion and a relatively small amount of the ferrocyanide, and then regenerating the exhausted bleaching solution by adding a regenerating agent, the improvement wherein said regenerating agent is a material selected from the group consisting of terminal primary alkylamines, aliphatic and aromatic carbonamides, carbonimides, aromatic sulfonamides, and melamine, in which the respective amino, amido and imido nitrogen is substituted by at least one bromine atom, the amount of said N-bromo derivative being such as to release about one molar equivalent of bromine for each molar equivalent of ferrocyanide ion present in the exhausted bleach solution.

2,611,701
VAT DYE PHOTOPRINTS
André Schoen, Bangor, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 6, 1947, Serial No. 784,529
6 Claims. (Cl. 95—88)

1. The process of producing vat dye images which consists in exposing under a pattern a fibrous base sensitized with a solution of ammonium ferric citrate and potassium ferricyanide to form a Prussian Blue image, treating the base with an aqueous solution of a sulfuric acid ester of a leuco vat dye, an oxidizing agent having an oxidizing potential of the order of hydrogen peroxide and a weak acid which imparts to the solution a pH of from about 5 to 6, and heating the base to effect development imagewise of the vat dye through catalytic oxidation engendered by the Prussian Blue image.

2,611,702
PROCESS FOR THE PRODUCTION OF ADJUNCT TO FEEDSTUFFS
Leo Potishman, Fort Worth, Tex.
No Drawing. Application January 27, 1951, Serial No. 208,239
7 Claims. (Cl. 99—6)

1. A process for the production of an adjunct to feedstuffs containing vitamins and mineral matter, which consists of mixing vitamins with a natural feed product having a high absorptive

property for the absorption of vitamins, mixing the resulting compound with an additional amount of solid vitamins and mineral matter, coating the mixture rapidly with molasses to act as a binder having a pH 6 to 7 to produce a compound of agglomerated particles.

2,611,703
PRODUCTION OF STABILIZED FORAGE CROPS
Chester Ray Thompson, Richmond, Calif., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application April 28, 1950, Serial No. 158,905
22 Claims. (Cl. 99—8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process of stabilizing a forage crop which comprises incorporating therewith a 2,5-di(hydrocarbon) substituted hydroquinone.

2,611,704
DRY MIX
Edward B. Jaeger, Philadelphia, Pa.
No Drawing. Application May 17, 1946, Serial No. 670,545
13 Claims. (Cl. 99—94)

1. A dry mix for baked flour products comprising flour, a shortening agent including a fat present in from 15 to 80% by weight of the amounts normally used in the baked product, a member of the class consisting of the edible high molecular weight esters of edible high molecular weight fatty acids and ethers corresponding to said esters, and an acid mucilaginous emulsifying agent, said member of the class having at least one unreacted hydroxyl group and being at least semi-solid at 25° C.

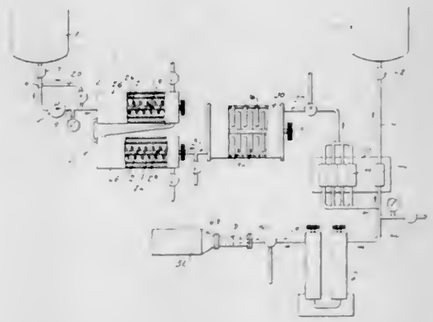
2,611,705
PRODUCTION OF POTATO CHIPS
Carl E. Hendel, Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application June 16, 1950, Serial No. 168,642
6 Claims. (Cl. 99—100)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process of producing fried potato chips of desirable properties from potatoes which have been kept in cold storage and therefore have excessive browning tendencies and would normally produce fried chips of an excessively dark color comprising frying the raw potato slices in oil only until they develop a color equivalent to that exhibited by a good quality potato chip but not long enough to make them crisp, then removing the slices from the oil and subjecting them to drying in air until they become crisp.

2,611,706
FAT COMPOSITION FOR INFANTS' FOOD
Finn W. Bernhart, Holt, and John B. Hassinen, Mason, Mich., assignors to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application December 21, 1949, Serial No. 134,344
13 Claims. (Cl. 99—118)

1. A food composition comprising a carbohydrate component selected from the group consisting of lactose, dextrin, inulin and mixtures thereof, and a fat component consisting of a blend of a plurality of food fats, at least one of which is of vegetable origin, said blend containing only those saturated fatty acids having more than 10 carbon atoms in the molecule, containing not over 5% of C_{12}–C_{14} saturated fatty acids, containing at least 50% of unsaturated fatty acids of which a substantial fraction is oleic acid, said percentages being by weight based on the total weight of the fatty acids present in said fat component, said blend of a plurality of food fats having a saponification number within the range 190–200, a Wijs iodine number within the range 55–85, and a melting point within the range 25–45° C.

2,611,707
METHOD AND APPARATUS FOR MANUFACTURING MARGARINE
John Rourke, Bebington, and William Thornton Dow, Upton, England, assignors to Lever Brothers Company, Cambridge, Mass., a corporation of Maine
Application March 23, 1949, Serial No. 83,034
In Great Britain April 1, 1948
12 Claims. (Cl. 99—122)



1. A homogenizing device comprising a vessel having an entrance opening and an exit opening of progressively increasing cross-sectional dimensions and containing a plurality of screens and baffles to define a tortuous path having an abrupt and substantial change in direction behind each screen between said openings.

2,611,708
METHOD OF COATING FOODS WITH PECTINATE OR PECTATE FILMS
Harry S. Owens, Berkeley, and Thomas H. Schultz, Lafayette, Calif., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application July 18, 1950, Serial No. 174,564
14 Claims. (Cl. 99—166)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

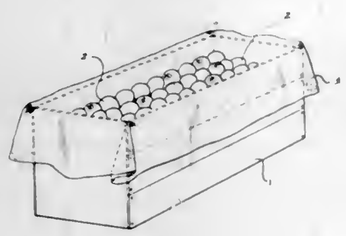
1. The process of encasing foods with an edible film envelope which comprises coating the food with a solution containing a member of the group consisting of alkali low-methoxyl pectinates and alkali pectates, contacting the coated food with a solution containing calcium ions to gel the coating, then drying the gel coating to form said film.

2,611,709

PACKAGE AND STORAGE OF APPLES

Homer H. Plagge, deceased, late of Ames, Iowa, by Alma R. Plagge, administratrix de bonis non, Ames, Iowa, assignor, by direct and mesne assignments, of one-half to Iowa State College Research Foundation, Inc., Ames, Iowa, a corporation of Iowa, and one-half to The Goodyear Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

Application May 14, 1949, Serial No. 93,386
1 Claim. (Cl. 99—171)



A gas-permeable storage container having unwrapped apples therein and provided with a tight liner of rubber hydrochloride film no more than .0012 inch thick and containing 15 parts of methoxyethyl oleate and 15 parts of dibutyl sebacate per 100 parts of rubber hydrochloride.

2,611,710

COMPOSITION FOR HARD FACING

Herbert J. Woock, Alhambra, Calif.

No Drawing. Application December 17, 1949, Serial No. 133,670
12 Claims. (Cl. 106—1)

1. A composition for producing a metallic hard facing comprising a mixture of two alloys and a flux of the type used in welding in the proportion of about 84% of the first alloy, 10% of the second alloy, and 6% of the flux, the first alloy resulting from the melting, pigging, and crushing of a mixture comprising about 10% cobalt, about 42% ferrochromium, about 18% ferromanganese, about 10% boron, about 10% ferrosilicon, and about 10% ferromolybdenum; the second alloy resulting from the melting, pigging, and crushing of about 80% nickel, and about 20% ferrosilicon.

2,611,711

OLEAGINOUS CORROSION PREVENTIVE COMPOSITION

Bernard L. Costello, Riverside, N. J.

No Drawing. Application June 18, 1948, Serial No. 33,834
1 Claim. (Cl. 106—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

An oleaginous composition characterized by the ability to prevent corrosion of metallic surfaces when applied thereto and to be easily removed therefrom, consisting of a homogeneous blend of about 47% by weight of soybean oil, about 33% by weight of sperm oil and about 20% by weight of linseed oil.

2,611,712

METHOD OF PREPARING A CELLULATED GLASS BODY

Walter D. Ford, Port Allegany, Pa., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application January 12, 1949, Serial No. 70,601
9 Claims. (Cl. 106—40)

1. A process of forming cellular glass bodies which comprises thoroughly admixing a mixture of the following composition:

	Parts by weight
Flint	55
Soda ash	18
Dolomitic limestone	15
Nepheline syenite	12
Antimony trioxide	1
Lamp black	0.7

placing the mixture in a refractory mold in an amount of approximately ½ to fill it, then heating the mixture until a sintered, cohered and bloated mass is formed without actual liquefaction.

2,611,713

CONCRETE SURFACE SEALER

Alvin G. Glick, Anoka, Minn., assignor to Akona Chemical Corporation, Anoka, Minn., a corporation of Minnesota

No Drawing. Application June 23, 1950, Serial No. 170,029
3 Claims. (Cl. 106—95)

1. A sealer for concrete surfaces comprising a dry mixture consisting in from 75% to 85% Portland cement, 8% to 12% hydrated lime, 2½% to 3½% zinc sulphate, 2½% to 3½% deliquescent chemical composition, and 1% calcium stearate, said mixture adapted to have water added thereto to produce a fluid paste for application to a concrete surface to waterproof said surface.

2,611,714

WET PROCESS FOR PORTLAND CEMENT MANUFACTURE

Joshua Chitwood Witt, Chicago, Ill.

No Drawing. Application April 14, 1948, Serial No. 21,094
8 Claims. (Cl. 106—100)

1. In the manufacture of Portland cement by the "wet" process without the use of water, the steps which comprise comminuting substantially dry cement-making solids in an organic water-free liquid which is chemically inert as regards said solids, to produce a slurry consisting of the comminuted solids and said liquid; and segregating the components of the slurry while continuously excluding water therefrom.

2,611,715

METHOD AND PRODUCTS UTILIZING CASHEW NUT SHELL LIQUID

Leon B. Palmer, Kearny, and Ralph W. Charlton, Verona, N. J., assignors to Congoleum-Nairn Inc., a corporation of New York

No Drawing. Application June 25, 1948, Serial No. 35,278
14 Claims. (Cl. 106—252)

1. A process comprising commingling cashew nut shell liquid and a previously oxidized siccative oil to form an admixture wherein said previously oxidized oil constitutes from about 3% to about 90% by weight of the combined weight of said oxidized siccative oil and said cashew nut shell liquid, the amount of added oxygen contained in said previously oxidized siccative oil being from about 4% to about 9% by weight, and subjecting said admixture to heat maintained at a temperature below about 300° F. thereby effecting a substantial thickening thereof produced substantially entirely by interaction between said cashew nut shell liquid and said previously oxidized siccative oil.

2,611,716

METHOD OF MAKING A PHOTOGRAPHIC SENSITIVE ELEMENT

Willem Robijns, Antwerp-Mortsel, Belgium, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium

No Drawing. Application March 18, 1947, Serial No. 735,528. In Belgium June 28, 1946
1 Claim. (Cl. 117—34)

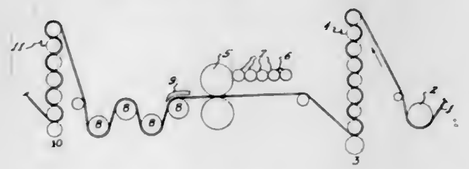
Method of manufacturing photographic material for obtaining photographic images with pastel-like appearance, which comprises applying to a support, a photographic silver halide coated with an adhesive layer having dust fibres uniformly distributed thereover a silver halide gelatine emulsion over the dust fibre layer, said emulsion having a silver nitrate to gelatine ratio of at least 1.5 to 1 and a viscosity that does not exceed the viscosity of a four percent aqueous solution of photographic gelatine.

2,611,717

METHOD OF CALENDERING MINERAL COATED PAPER

Brainard E. Sooy, Middletown, and Harry C. Fisher, Cincinnati, Ohio, assignors to The Gardner Board and Carton Co., a corporation of Ohio

Application January 22, 1949, Serial No. 72,172
2 Claims. (Cl. 117—64)



1. A process of producing water finishes to attain smoothness on webs of paper or paperboard bearing a set but water-softenable coating comprising mineral substance and a water soluble adhesive which is starch, said process comprising passing said webs through a stack of calender rolls, and applying to the coated surface of webs while on said calender rolls an aqueous solution of gelled starch having a solids content substantially between 4½% and 15% by weight.

2,611,718

GLASS FIBERS COATED WITH WERNER TYPE COMPLEX AND METHOD OF MAKING SAME

Robert Steinman, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware

No Drawing. Application March 14, 1947, Serial No. 734,862
6 Claims. (Cl. 117—72)

1. An article of manufacture comprising glass fibers and a coating insolubilized on the glass fiber surfaces to render the surfaces more receptive to polyester resins, said coating comprising a complex compound of the Werner type in which a trivalent nuclear chromium atom is coordinated with an unsaturated acido group having from 3 to 7 carbon atoms in which the unsaturated group is between the alpha and beta carbon atoms.

2,611,719

BASE COATED WITH A HIGH STYRENE-BUTADIENE COPOLYMER

Alvin M. Borders, White Bear Lake, Minn., assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application September 21, 1946, Serial No. 698,434
7 Claims. (Cl. 117—161)

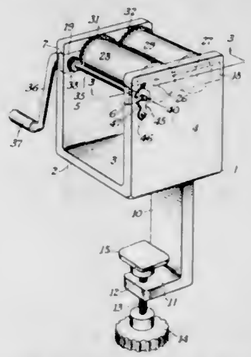
1. A base coated with a flexible, tough, continuous, clear film of a resinous, thermoplastic, emulsion-polymerization copolymer of 80 to 92% of styrene and from 20 to 8% of a conjugated diolefin of from 4 to 6 carbon atoms per molecule prepared in the presence of from 0.2 part to about 3.0 parts per 100 parts of monomers of a mercaptan modifier of at least 6 carbon atoms, the film resulting from the evaporation of the solvent from a dispersion of said copolymer in an organic solvent for said copolymer, a 20% xylene solution of the resin having a No. 4 Ford Cup viscosity at 78° F. of from less than 19 to not more than 960 seconds.

2,611,720

MACHINE FOR MOUNTING A FLEXIBLE FILM ON GLASS FOR MAKING LANTERN SLIDES

Kenneth A. Van Dyck and George J. Koch, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

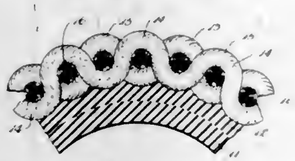
Application February 10, 1950, Serial No. 143,486
3 Claims. (Cl. 154—1)



1. A machine for mounting a flexible film upon a relatively rigid support with cement therebetween to produce a lantern slide, said machine comprising a frame having a pair of spaced side walls, each wall having a groove extending transversely of the side wall and in parallel relationship to each other, one wall including an aperture extending through the wall and into the groove, a pair of bearing rails slidable into the pair of grooves in the side walls, one in each groove, a first and a second aperture in each bearing rail forming bearings, a first and second shaft to be supported in the first and second bearing apertures of the bearing rails and to extend only partially therethrough, a third shaft, each bearing plate including a third bearing aperture to support the third shaft, the aperture extending through the side wall and into the groove lying opposite the third aperture in one

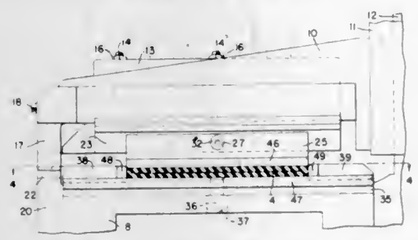
bearing rail whereby the third shaft may extend therethrough, meshing gears and contacting wringer rolls carried by the first and second shafts, the third shaft carrying a pinion meshing with a gear of the meshing gears carried by the first and second shafts for turning the wringer rolls.

2,611,721
METHOD OF ADHERING FABRIC TO RUBBER
Clarence W. Brees, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application June 14, 1949, Serial No. 99,127
9 Claims. (Cl. 154—8)



1. The method of making a composite article comprising impregnating at least the face of a fabric layer with an accelerator of vulcanization, assembling said fabric layer with said face in contact with a vulcanizable elastomeric composition comprising a vulcanizing agent and an accelerator of vulcanization, and vulcanizing said assembly.

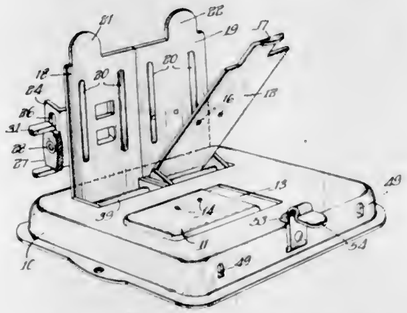
2,611,722
METHOD OF AND APPARATUS FOR SPLICING RUBBER
Everett D. George, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application February 28, 1950, Serial No. 146,755
7 Claims. (Cl. 154—9)



1. Apparatus for mating and splicing together the ends of uncured rubber stock comprising a pair of guide members for supporting and positioning the ends of the stock to be spliced; a pair of clamp members for urging the ends of the stock against the guide members; a facing of flexible material on each guide member; and a facing of flexible material on each clamp member, said facings being disposed on their respective members adjacent the ends of the stock and coacting when compressed to completely encompass the mated ends of the stock and to resist the flow of stock in all directions emanating from the splice.

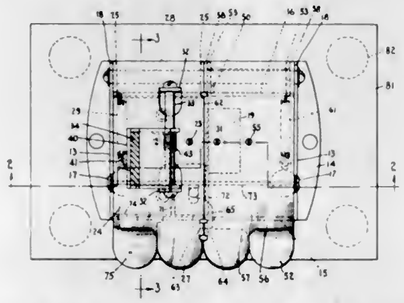
6. An improved method of splicing together the ends of uncured rubber stock with a minimum of projecting flash in the splice area comprising the steps of substantially completely encompassing each of the ends of the stock with a compressible material in such fashion that a portion of the stock projects slightly therebeyond; jamming the projecting portions of the stock together in mating relationship with each other; simultaneously therewith bringing the compressible material associated with one of the ends of the stock into contiguous relation with that associated with the other end of the stock, whereby a body of compressible material is formed surrounding the mated projecting portions adjacent the splice area; and compressing the compressible material around the splice to resist the flow of stock outwardly from the splice area resulting from the pressure applied to the stock ends.

2,611,723
FILM SPLICER
Bernard Aboltin, Chicago, Ill., assignor to Mansfield Industries, Inc., Chicago, Ill., a corporation of Illinois
Application December 13, 1949, Serial No. 132,780
20 Claims. (Cl. 154—42.1)



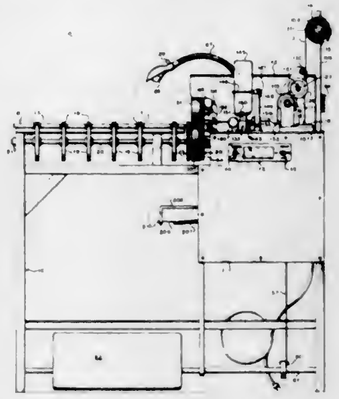
10. In a film splicer which includes means for holding film in position for splicing, a film scraping support member, and a film scraper mounted for longitudinal movement along said support member, said scraper also being adapted for movement in its longitudinal plane about an axis transverse to said plane.

2,611,724
FILM SPLICER
Sigbert L. Wittenberg, Belle Harbor, N. Y.
Application July 21, 1947, Serial No. 762,281
12 Claims. (Cl. 154—42.1)



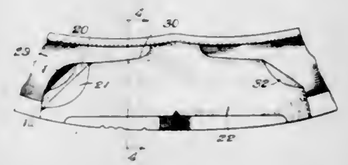
1. In film splicing apparatus, a pair of table elements arranged to receive strips of film which are partially overlapped and are to be joined together, a pair of pivoted cover and pressure plates cooperating with said table elements, one of said plates having an edge portion in overlying engagement with the spliced area of said strips, and latching means engaging said plates substantially in line with said edge portion so that the latching force will be concentrated on said spliced area.

2,611,725
HEAT SEAMER
James M. Humphrey, New Richmond, Wis., and John Joseph Grevich, St. Paul, Minn., assignors, by mesne assignments, to Harris Trust and Savings Bank and W. H. Milsted, as trustees
Application October 16, 1950, Serial No. 190,391
20 Claims. (Cl. 154—42.3)



1. A sealing machine for forming a seam between two sheets of thermoplastic material comprising in combination a frame, a work table on said frame for supporting superimposed sheets to be joined with two adjacent edges in substantial alignment, conveyor means associated with said table for feeding said sheets longitudinally thereof, spaced substantially parallel hollow shafts journaled in said frame one above the other, a sealing roll fixed to one end of each shaft adjacent an edge of said table, means for driving said rolls comprising a motor and a variable speed transmission, treadle means mounted on said frame for controlling the output of said transmission whereby the speed of rotation of said rolls may be infinitely varied between zero and maximum, means on one of said rolls for driving said conveyor in synchronism therewith, a heating element disposed in each roll, slip rings fixed on said shafts and brushes in contact therewith, conductors connected to said heating elements and said slip rings and extending through said hollow shafts whereby electrical energy may be supplied to said heating elements, a relay connected in an electrical supply circuit for said heating elements, an adjustable thermostat disposed in one roll and connected through said slip rings to said relay whereby the temperature of said heating elements may be controlled, means for adjusting said thermostat, means for permitting movement of one roll away from the other, adjustable yieldable means for biasing said rolls towards each other whereby the pressure applied to work therebetween may be varied, means for supporting a supply of thermoplastic binding tape on said frame, tape-pulling means driven by said sealing roll drive means in synchronism therewith, means for rendering said tape-pulling means operative or inoperative in accordance with the tension in the tape fed therefrom, means for applying solvent to one surface of said tape, means for removing excess solvent from said tape, means for longitudinally folding said tape upon itself and applying the same over the edges of said sheets to be joined whereby upon passing between said sealing rolls said sheets will be joined to said binding tape under the action of heat and pressure to form a continuous sheet.

2,611,726
SHOE LINING HAVING SELF-STIFFENING PROPERTIES
Raymond B. Harrison, Arlington, Mass.
Application May 20, 1950, Serial No. 163,120
5 Claims. (Cl. 154—46)



5. A laminated quarter lining moldable under heat and pressure having self-stiffening properties and comprising a foundation ply of a plurality of sheets of flannel impregnated and bonded together with polyvinyl acetate, a ply of textile fabric impregnated with a rubber latex and having an embossed surface coating, an intermediate ply of a composition consisting of opal wax, ethyl cellulose and stearic acid adapted to unite adhesively the foundation ply and the embossed ply, and having a film of a composition consisting of gum rosin, ethyl cellulose and stearic acid on the outer surface of the foundation ply adapted to become adhesively activated and to secure the laminated combination to the outer integument of the upper of the shoe when softened during the pulling over and heel lasting steps of the shoemaking process.

2,611,727
BRAKE LINING AND METHOD OF MAKING SAME
Julius E. Underwood and Alfred Hirsch, Painesville, Ohio, assignors to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application October 20, 1949, Serial No. 122,582
10 Claims. (Cl. 154—81)

2. A composition of matter, the principal ingredients of which are asbestos, a co-hydrolyzate of a mixture of 10–30 mol per cent of an ethyl silicon trihalide and 70–90 mol per cent of a phenyl silicon trihalide, $PbSO_4$, and PbO, and the lesser ingredients of which include an elastomeric copolymer of butadiene and acrylonitrile.

2,611,728
INSECTICIDAL COMPOSITIONS CONTAINING SUBSTITUTED ALIPHATIC ESTERS OF DIETHYL DITHIOPHOSPHORIC ACID
Jeffrey H. Bartlett, Westfield, Harry W. Rudel, Roselle Park, and Elmer B. Cyphers, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 1, 1949, Serial No. 124,952
4 Claims. (Cl. 167—22)

1. An insecticidal dust composition comprising a substituted aliphatic ester of diethyl dithiophosphoric acid selected from the group consisting of the cyanoethyl and chloroethyl esters admixed with a powdered clay.

2,611,729

INSECTICIDAL COMPOSITIONS CONTAINING HYDROCARBON ESTERS OF DIETHYL DITHIOPHOSPHORIC ACID

Jeffrey H. Bartlett, Westfield, Harry W. Rudel, Roselle Park, and Elmer B. Cyphers, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 1, 1949, Serial No. 124,951

5 Claims. (Cl. 167—30)

1. An insecticidal dust composition comprising the styrene ester of diethyl dithiophosphoric acid admixed with a powdered clay.

2,611,730

MEDICAL PREPARATION FOR REDUCING THE BODY LEVEL OF SODIUM

Arthur E. Heming, Lafayette Hill, Pa., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application September 2, 1950, Serial No. 183,101

3 Claims. (Cl. 167—55)

1. A medical preparation for reducing the body level of sodium comprising an ion-exchange resin selected from the group consisting of carboxylic and sulfonic ion-exchange resins, said resin being charged with ammonium ions and additionally being charged with potassium ions to maintain the normal body level of potassium, said medical preparation being substantially sodium free.

2,611,731

ANTIBIOTIC PREPARATIONS

Albert L. Rawlins, Grosse Pointe Woods, and James A. Sultzaberger, Detroit, Mich., assignors to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application September 3, 1946, Serial No. 694,674

12 Claims. (Cl. 167—65)

1. A clear, essentially aqueous antibiotic concentrate comprising an antibiotic selected from the class consisting of tyrothricin and one of its therapeutically active components and as a solubilizer therefor a water-soluble salt of an organic quaternary ammonium compound having three lower alkyl groups and one long chain alkyl group all attached directly to the pentavalent nitrogen atom, in which the lower alkyl groups each contain no more than two carbon atoms; said concentrate yielding on dilution with an aqueous solvent a clear, stable solution containing the antibiotic in a concentration greater than its solubility in an otherwise identical solution not containing the solubilizer, said concentration being sufficient to manifest antibiotic activity.

2,611,732

COMPOSITIONS CONTAINING MIXTURES OF 4-AMINOSALICYLIC ACID AND ITS BASIC CALCIUM SALT

Richard P. Germann, Plainfield, Martin E. Hultquist, Bound Brook, and James M. Smith, Jr., North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 24, 1950, Serial No. 175,666

4 Claims. (Cl. 167—68)

1. A solid 4-aminosalicylic acid radical composition having the major 4-aminosalicylic acid constituent in the form of a mixture of 45–52.5 molar per cent basic calcium 4-aminosalicylate and 55–47.5 molar per cent 4-aminosalicylic acid, the solid composition being characterized by high stability on storage and being capable of solution in water.

2,611,733

PRODUCTION OF PENICILLIN

Erling Knud Frederiksen, Holte, and Erling Juhl Nielsen, Charlottenlund, Denmark, assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y., a firm

No Drawing. Application May 3, 1949, Serial No. 91,225. In Denmark May 5, 1948

1 Claim. (Cl. 195—36)

A method for the production of penicillin which comprises the step of cultivating a penicillin producing fungus of the genus Penicillium in an aqueous nutrient solution containing the phenylacetic acid ester of diethylamino ethanol, said ester being present in the nutrient solution in an amount not exceeding 2 grams per liter of solution.

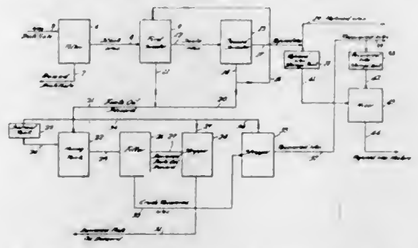
2,611,734

WAX PRODUCTION PROCESS

William P. Ridenour, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application June 29, 1950, Serial No. 171,072

4 Claims. (Cl. 196—20)



1. A process of preparing a mixture of paraffin waxes having a high melting point and high tensile strength which comprises solvent dewaxing a foots oil discard at a temperature from about 60° to about 100° F. to form a liquid and a solid phase, said solid phase containing crude recovered wax; removing the solvent from the solid phase to obtain a recovered wax having a melting point of at least about 115° F. and a tensile strength of at least about 100 pounds per square inch; and combining the recovered wax with a refined wax having a melting point of at least about 115° F and a tensile strength of at least about 150 pounds per square inch to form a mixture containing not more than 5 weight per cent recovered wax and having a melting point and a tensile strength substantially equal to the melting point and tensile strength of the refined wax.

2,611,735

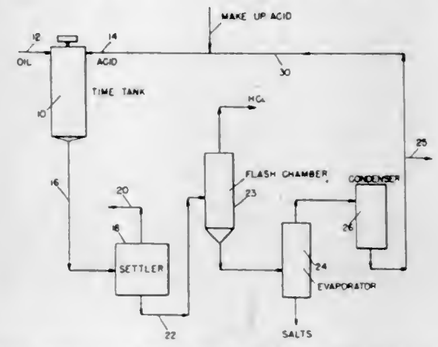
PROCESS FOR REMOVING METALS FROM CRUDE PETROLEUM OILS

Edward Adamson Coons, Chicago, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application June 21, 1947, Serial No. 756,283

3 Claims. (Cl. 196—39)

1. In a process involving pretreatment of crude petroleum oils containing metal compounds and subsequent use of the pretreated crude petroleum oils as a charging stock in a catalytic cracking operation, the improvement which comprises subjecting the crude petroleum oils in the pretreating operation and prior to bringing the oil into contact with the cracking catalyst into intimate admixture with fluorosulfonic acid whereby the



metal compounds initially present in the crude petroleum oils react with the fluorosulfonic acid to form the corresponding fluorosulfonates, and separating the resulting fluorosulfonates from the oil.

2,611,736

REFORMING PROCESS AND CATALYST THEREFOR

Vladimir Haensel, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application November 16, 1948, Serial No. 60,381

15 Claims. (Cl. 196—50)

10. A process for reforming a gasoline fraction which comprises subjecting said fraction to contact at reforming conditions with a catalyst prepared by combining a halogen with alumina in an amount of from about 0.1 to about 8% by weight of said alumina on a dry basis, forming the alumina into particles of uniform size and shape, calcining said particles at a temperature of from about 1000° to about 1400° F., commingling with the calcined particles a platinum compound-ammonium hydroxide solution in an amount to form a final catalyst containing from about 0.01 to about 1% by weight of platinum and heating the composite at a temperature of from about 500° to about 1000° F.

2,611,737

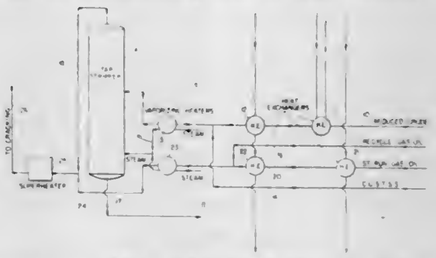
PROCESS FOR THE PREPARATION OF HYDROCARBON CRACKING STOCK FOR CATALYTIC CRACKING

Virgil A. Johnson, Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application February 9, 1949, Serial No. 75,356

1 Claim. (Cl. 196—52)

In the continuous preparation of catalytic charge stock from residual stock having components which tend to crack and form coke upon heating to a high temperature and from distillate stock, the improvement which consists of separately preheating the residual stock to a moderate temperature of about 800° F., flashing said preheated residual stock to knock out tar and asphaltic matter and to produce residual stock vapors at a temperature of about 800° F., separately vaporizing said distillate stock by preheating to a higher temperature upwards of about 1050° F., combining the relatively low temperature residual stock vapors with the relatively high temperature distillate stock vapors to elevate the temperature of the residual stock vapors and to lower the temperature of the distillate stock vapors, rapidly passing the combined stream of distillate and residual stock vapors through a superheating zone to raise quickly the



temperature of the combined stream to upwards of about 1080° F. thereby avoiding undue cracking and coking of the residual stock vapors, and conducting the superheated vapor stream to the catalytic cracking reaction system.

2,611,738

HYDROCARBON CONVERSION CATALYST AND PROCESS

Glenn M. Webb, Western Springs, and Reno W. Moehl, Congress Park, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application July 25, 1947, Serial No. 763,737

9 Claims. (Cl. 196—52)

9. A process for the conversion of a hydrocarbon which comprises subjecting said hydrocarbon at conversion conditions to contact with a catalyst prepared by compositing silica hydrogel with a metal oxide and, prior to substantial drying, aging the composite of silica hydrogel and metal oxide at an elevated temperature and for a period of at least an hour in an ammonium salt solution having a pH below about 9.

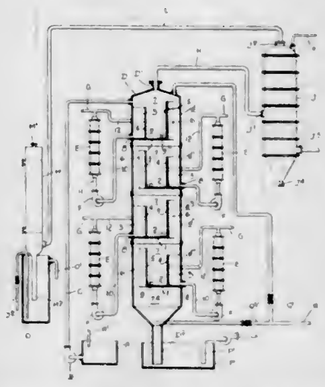
2,611,739

RECOVERING ACID AND BENZOL FROM BENZOL WASHING RESIDUES

Carl Otto, Manhasset, N. Y.

Application December 22, 1949, Serial No. 134,391

4 Claims. (Cl. 202—46)



1. In the continuous recovery of sulphuric acid and benzol from the spent acid residue of benzol washing operation, the method which consists in passing the residue downward through successive column still sections at successively lower

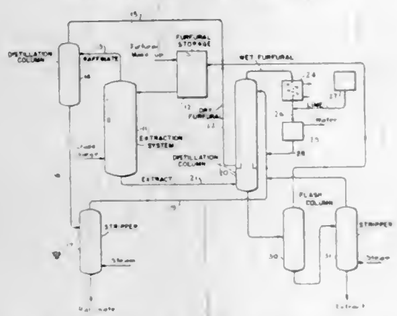
levels, subjecting the spent acid residue to a boiling action and resultant agitation by injecting steam into the residue in each section, recirculating and further agitating the spent acid residue passing through each section as it passes through a flow path comprising a portion within said still section and a portion external to the still and subjecting the material moving through said external portion of the flow path to forces including an impelling force to maintain said flow, and forces sub-dividing and remixing the residue, passing vapors including benzol vapor and steam out of said column still at its upper end and passing the unvaporized portion of said residue out of said still at its lower end and separating dilute sulphuric acid from said residue portion.

2,611,740

DISTILLATION OF FURFURAL

John Alexander Berriman, Corringham, and James Chalmers Selbie, Upminster, England, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application January 3, 1949, Serial No. 68,924
In Great Britain August 18, 1948
10 Claims. (Cl. 202—71)



1. In a method for the recovery of furfural from mixtures of furfural with higher boiling organic compounds wherein the furfural is distilled in the presence of water from said organic compounds, the improvement which comprises: (1) distilling said mixture in a distillation zone in the presence of water into an overhead product consisting essentially of vapors of water and furfural, a bottoms product containing said higher boiling organic compounds with a reduced content of furfural and an intermediate product consisting essentially of substantially dry furfural, and withdrawing the same from the distillation zone; (2) at least partially condensing the separated overhead vapor product after withdrawal from the distillation zone and injecting thereinto an inorganic alkaline compound as an acidic neutralizing agent, prior to stratification of separate water and furfural liquid phases, in such quantity that the pH of subsequently resulting stratified water phase is greater than five but not greater than seven; (3) stratifying and immediately separating resulting liquid aqueous and furfural phases; and (4) returning the separated furfural as condensate reflux to the distillation zone.

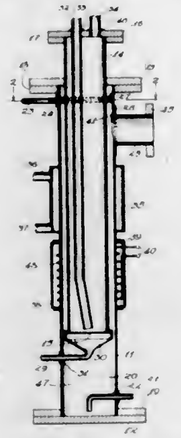
2,611,741

DISTILLATION APPARATUS FOR REFINING FATS AND OILS

John E. Thompson, Chicago, Ill.

Application November 26, 1948, Serial No. 62,077
3 Claims. (Cl. 202—187)

1. In a device for the continuous removal of volatile elements from fats and the like, an outer housing providing the outermost wall of a vacuum chamber and providing an inner surface along which fats will flow downwardly; pipe means extending through said housing for introducing the unfinished fat into upper portions of said vacuum chamber; a circular conduit having a plurality of holes and being connected to said pipe means for distributing said fat over the upper inner surface of said outer housing; a steam heater disposed around said vacuum chamber and being adapted to heat portions thereof to the approximate temperature of said heater means; an electrical heater disposed around portions of said vacuum chamber below said primary heater and being adapted to heat portions thereof to substantially the temperature of said second heater means, said primary heater being adapted to heat the vacuum chamber to temperatures which are lower than the temperatures



of said second heater; a condenser tube mounted in said vacuum chamber and extending outwardly therefrom and providing a surface on which volatilized fluids may condense; the heat from said second heater being adapted to drive impure fluids from the fat not driven off by the heat produced by said primary heater; an exhaust nipple adapted to withdraw from said vacuum chamber all non-condensable fluids, the condensable fluid impurities being condensable along said condensing surface; a lip in the path of fat flow for precluding entrance of fat into said nipple; a fluid collection means adapted to collect the condensed fluid impurities and conduct them out of said vacuum chamber and extending through said wall; a reservoir in said vacuum chamber into which the finished fat may be collected; and conduit means connected with said reservoir for removing the finished fat and extending through said wall.

2,611,742

LUBRICATION COMPOSITION

Egbert Mason Kipp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 17, 1949, Serial No. 133,681
4 Claims. (Cl. 252—49.6)

1. A lubricating composition comprising a major proportion of a hydrocarbon lubricating oil blended with a minor proportion of a body consisting essentially of a natural substance selected from the group consisting of animal and vegetable oils and fats and BF_3, said body being prepared by exposing said natural substance to direct contact with a compound selected from the class consisting of gaseous BF_3 and decomposable compounds yielding gaseous BF_3 and being present in such amount that the lubricating composition contains from 0.001 to 3 per cent by weight of BF_3, said lubricating composition possessing extreme pressure characteristics superior to those exhibited by a similar composition in which the minor proportion aforesaid consists of said natural substance.

2,611,743

LUBRICATION COMPOSITION

Egbert Mason Kipp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 17, 1949, Serial No. 133,682
4 Claims. (Cl. 252—49.6)

1. A lubricating composition comprising a major proportion of a hydrocarbon lubricating oil blended with a minor proportion of a body consisting essentially of fatty acid containing from 4 to 21 carbon atoms and BF_3, said body being prepared by exposing the fatty acid to direct contact with a substance selected from the group composed of gaseous BF_3 and decomposable compounds yielding gaseous BF_3 and being present in such amount that the lubricating composition contains from 0.001 to 3 per cent by weight of BF_3 said lubricating composition possessing extreme pressure characteristics superior to those exhibited by a similar composition in which the minor proportion aforesaid consists of fatty acid.

2,611,744

LUBRICATION COMPOSITION

Egbert Mason Kipp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 17, 1949, Serial No. 133,683
2 Claims. (Cl. 252—49.6)

1. A lubricating composition comprising a major proportion of a hydrocarbon lubricating oil blended with a minor proportion of a body consisting essentially of a substance selected from the class consisting of the fatty acid esters of monohydric alcohols and polyhydric alcohols and BF_3, said fatty acids being those containing from 4 to 18 carbon atoms, said body being prepared by exposing said fatty acid esters to direct contact with a substance selected from the class consisting of gaseous BF_3 and decomposable compounds yielding gaseous BF_3 and being present in such amount that the lubricating composition contains from 0.001 to 3 per cent by weight of BF_3, said lubricating composition possessing extreme pressure characteristics superior to those exhibited by a similar composition in which the minor proportion aforesaid consists of fatty acid ester.

2,611,745

LUBRICATING COMPOSITION

Egbert Mason Kipp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 17, 1949, Serial No. 133,684. In Canada June 10, 1947
3 Claims. (Cl. 252—49.6)

1. A lubricating composition comprising a major proportion of a hydrocarbon lubricating oil blended with a minor proportion of a body consisting essentially of a substance selected from the class consisting of unmodified alcohols containing at least three carbon atoms, alcohol-ethers and ethers and BF_3, said body being prepared by exposing said substances to direct contact with a substance selected from the class consisting of gaseous BF_3 and decomposable compounds yielding gaseous BF_3 and being present in such amount that the lubricating composition contains from 0.001 to 3 per cent by weight of BF_3, said lubricating composition possessing extreme pressure characteristics superior to those exhibited by a similar composition in which the minor proportion aforesaid consists of said substance selected from the class consisting of unmodified alcohols, alcohol-ether and ethers.

2,611,746

LUBRICATING COMPOSITION

Egbert Mason Kipp, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application December 17, 1949, Serial No. 133,685. In Canada June 10, 1947
3 Claims. (Cl. 252—49.6)

1. A lubricating composition comprising a major proportion of a hydrocarbon lubricating oil blended with a minor proportion of a body consisting essentially of a substance selected from the class consisting of aliphatic, aromatic and heterocyclic mono- and polyamines, amino alcohols and amides and BF_3, said body being prepared by exposing said substances to direct contact with a substance selected from the class consisting of gaseous BF_3 and decomposable compounds yielding gaseous BF_3 and being present in such amount that the lubricating composition contains from 0.001 to 3 per cent by weight of BF_3, said lubricating composition possessing extreme pressure characteristics superior to those exhibited by a similar composition in which the minor proportion aforesaid consists of said substances selected from the class consisting of amines, amino alcohols and amides.

2,611,747

GLASS CLEANING COMPOSITION

Herbert E. Heideman, St. Paul, Minn., assignor to Lan-O-Sheen, Inc., St. Paul, Minn., a corporation of Minnesota

No Drawing. Application March 1, 1950, Serial No. 147,138
8 Claims. (Cl. 252—170)

1. A glass cleaner containing as essential ingredients an aqueous solution of lower alkyl aliphatic alcohol and naphthalene, the naphthalene being present in an amount sufficient to produce a noticeable cleaning effect, but not exceeding .03% by weight.

2,611,748

CHEMICAL INDICATOR FOR ALKYL-CHLOROARSINES

Kenneth E. Wilzbach, Chicago, Ill., assignor to the United States of America as represented by the Secretary of War

No Drawing. Application March 17, 1944, Serial No. 527,009
1 Claim. (Cl. 252—408)

A chemical reagent highly sensitive and specific as an indicator of alkyl-arsenic-dichlorides comprising a gel containing about 1 to 5.5% by weight of zinc sulfate and about 1 to 5.5% by weight of molybdic acid.

2,611,749

PREPARATION OF AN ALUMINA-PLATINUM-COMBINED HALOGEN CATALYST

Vladimir Haensel, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 4, 1948, Serial No. 47,944

12 Claims. (Cl. 252—442)

1. A process for preparing a supported platinum catalyst wherein the platinum component thereof is evenly distributed in a finely divided form on the exposed superficial area of the support which comprises compositing from about 0.1% to about 8% by weight of combined halogen with alumina by admixing the alumina with an aqueous solution of a water-soluble halogen compound, thereby forming a halogen-containing alumina support, precipitating colloidal platinum sulfide by adding a sulfiding agent to a solution of a water soluble platinum compound in an aqueous solution containing from about 20 to about 95% of a water soluble organic solvent, compositing said platinum sulfide with said halogen containing alumina support in an amount to form a final catalyst containing from about 0.01% to about 1% by weight of platinum, and thereafter calcining the resulting support containing said platinum sulfide at a temperature of from about 400° to about 650° C.

2,611,750

THERMALLY HARDENED POROUS SOLID

Chester N. White, Ridley Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application February 7, 1950, Serial No. 142,947

13 Claims. (Cl. 260—2.5)

1. The method of making a strong, thermally hardened, liquid-permeable solid which comprises: removing particles substantially smaller than 200 mesh from a mixture of discrete solid particles substantially all smaller than 10 mesh, said particles comprising partially condensed thermosetting resin selected from the group consisting of phenol-formaldehyde, cresol-formaldehyde, melamine-formaldehyde, urea-formaldehyde, thiourea-formaldehyde, phenol-furfural, cresol-furfural, melamine-furfural, urea-furfural, and thiourea-furfural resin, said resin being in an intermediate plastic solid stage of condensation at which it is dispersible by stirring in water without the aid of an emulsifying agent to form a non-colloidal suspension stable for at least five hours, thereby forming by said removing a mixture of sized particles from which particles smaller than 200 mesh have been removed; shaping said sized particles into a porous compact mass; and curing said compact mass by heat.

2,611,751

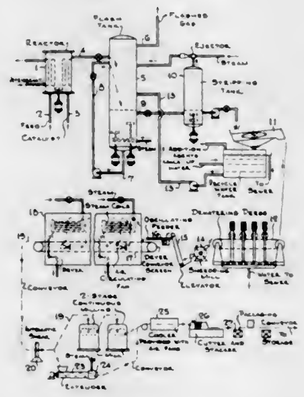
ANTITACK AGENT

Grady R. Scott, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 19, 1947, Serial No. 762,189

6 Claims. (Cl. 260—23.7)

2. A method of drying polymers prepared from mixtures containing substantial amounts of iso-olefins, which comprises continuously conveying the polymer through a drying zone on conveyors the conveyor surfaces of which are coated with an emulsion the non-volatile constituents of which are corn oil and a sodium sulfonate emulsifying agent.



6. In the process of finishing solid high molecular weight copolymers prepared from mixtures of iso-olefins and other unsaturated hydrocarbons at temperatures below about —20° F. in the presence of a Friedel-Crafts type catalyst which comprises discharging the cold polymer and associated low-boiling materials such as unreacted olefinic materials, solvents, diluents and the like into water in order to form a slurry of polymer in water and flash off the bulk of said associated low-boiling materials, stripping said low-boiling materials from the water slurry of polymer, separating the polymer particles from the water slurry, passing the separated polymer particles through a tunnel-type dryer on a screen conveyor, passing heated air over and through a bed of polymer particles passing through the dryer to remove moisture and residual volatiles from the polymer, the improvement consisting in coating the polymer-contacting surfaces of the screen conveyor with an emulsion consisting essentially of about 40 to 50% of a fatty oil selected from the group consisting of non-drying and semi-drying fatty oils which are substantially non-volatile at 200–350° F., and emulsifying amount of a sodium sulfonate emulsifying agent, and the balance consisting of an aqueous liquid medium comprising at least a major proportion of water, the amount of said emulsion used during continuous operation being about 0.1 to 0.5 lb. of the emulsion per 100 lbs. of polymer handled through the dryer.

2,611,752

TACKIFIERS AND SOFTENERS FOR SYNTHETIC RUBBERS AND COMPOSITIONS CONTAINING THE SAME

Robert H. Barth, Ridgewood, N. J., assignor to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application November 13, 1944, Serial No. 563,310, now Patent No. 2,516,104, dated July 25, 1950. Divided and this application July 21, 1950, Serial No. 175,291

18 Claims. (Cl. 260—27)

1. A tall-oil ester obtained by reacting tall-oil with a mixture of partial formals of pentaerythritol and polypentaerythritols produced in the manufacture of pentaerythritol by the condensation of formaldehyde and acetaldehyde in the presence of an alkaline catalyst and by reacting the product thus obtained with butyraldehyde.

2,611,753

PROCESS FOR PRODUCING SYNTHETIC RUBBERS CONTAINING TACKIFIERS AND SOFTENERS AND PRODUCT THEREOF

Harry Burrell, Milburn, and Robert H. Barth, Ridgewood, N. J., assignors to Heyden Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application November 13, 1944, Serial No. 563,310. Divided and this application July 21, 1950, Serial No. 175,292

8 Claims. (Cl. 260—27)

1. A composition comprising initially a synthetic rubber prepared by the copolymerization of a 1,3-butadiene hydrocarbon and a member selected from the group consisting of styrene and acrylonitrile and, as a tack-imparting softener therefor, an ester-acetal of a polyhydric alcohol selected from the group consisting of glycerol, pentaerythritol and polypentaerythritols, in which at least one but not all of the hydroxyl groups of the alcohol has been esterified by a resin acid selected from the group consisting of d-pimaric acid, levopimaric, abietic acids and Palkin acids, and the remaining hydroxyl groups have been acetalized in pairs by an aldehyde selected from the group consisting of aliphatic aldehydes having not more than 8 carbon atoms in the molecule and benzaldehyde.

2,611,754

VINYL ACETATE-ALLYL ACETATE COPOLYMER EMULSION

Hyman Rudoff, Springfield, Mass., assignor to Shawinigan Resins Corporation, Springfield, Mass., a corporation of Massachusetts

No Drawing. Application November 30, 1948, Serial No. 62,781

3 Claims. (Cl. 260—29.6)

1. A process which comprises emulsifying in water a mixture of 0.8–1.2 molecular proportions of vinyl acetate and one molecular proportion of allyl acetate in the presence of a dispersing agent, heating the resulting emulsion to cause substantially complete copolymerization of the acetates as indicated by the exothermic reaction subsiding, then adding sufficient additional vinyl acetate to raise the total amount thereof to 95–55 parts by weight for every 5–45 parts by weight of allyl acetate and heating the resultant mixture until the copolymer contains at least 55% vinyl acetate by weight.

2,611,755

PREPARATION OF STABLE POLYVINYL BUTYRAL DISPERSIONS

William H. Bromley, Jr., West Springfield, Mass., assignor to Shawinigan Resins Corporation, Springfield, Mass., a corporation of Massachusetts

No Drawing. Application October 7, 1949, Serial No. 120,223

6 Claims. (Cl. 260—29.6)

1. A process for preparing a stable aqueous dispersion of polyvinyl butyral resin which consists in mixing together at the same time 100 parts of unplasticized polyvinyl butyral made up on a weight basis of not over 30% hydroxyl groups calculated as polyvinyl alcohol, not over 30% ester groups calculated as polyvinyl ester and the balance substantially butyral acetal, 1.0 to 15 parts of an alkyl aryl alkali metal sulfonate, from 5 to 80 parts of a plasticizer for the polyvinyl butyral and an amount of water between 8% and 25% of the solids weight depending upon the amount of plasticizer and alkyl aryl alkali metal sulfonate used, agitating and heating the mixture until the resin is plasticized and a water-in-resin dispersion is formed, and then adding a sufficient amount of water with continued agitation to cause the dispersion to invert to a resin-in-water dispersion.

2,611,756

POLYVINYL RESIN PLASTICIZED WITH POLYESTER

Irving Pöckel, Cambridge, Mass., assignor to Cambridge Industries Company, Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application January 16, 1950, Serial No. 138,928

6 Claims. (Cl. 260—29.6)

1. A composition of matter comprising essentially an aqueous dispersion of a member selected from the group consisting of partially hydrolyzed polyvinyl acetate in which up to 77% of the polyvinyl acetate groups have been hydrolyzed and polyvinyl acetate, said dispersion being plasticized with a non-migrating, viscous liquid resinous plasticizer, said plasticizer consisting of the product of reaction between a member selected from the group consisting of adipic acid and succinic anhydride and a member selected from the group of diethylene glycol and dipropylene glycol, with up to 4% of another polyhydric alcohol and with up to 14% of a vegetable oil fatty acid.

2,611,757

CUTTING PAD

Arthur R. Olson, Wakefield, Mass., and Edmund W. Gelewitz, Evanston, Ill., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application May 29, 1948, Serial No. 30,106

1 Claim. (Cl. 260—38)

A clean cutting, wear resistant cutting pad comprising a smooth surfaced body of material of which cutting surfaces will bond when pressed together, said material comprising the product of molding under sufficient heat and pressure to effect curing a mixture of 100 parts by weight of a rubbery butadiene-acrylonitrile copolymer containing at least 20% acrylonitrile, about 95 parts by weight of a synthetic resinous reaction product of cashew nutshell oil and another phenol, sufficient aldehyde to make said resinous product thermosetting and channel black in the proportion of 8.6 parts by volume to 100 parts by volume of the butadiene-acrylonitrile copolymer, said cutting pad having a Shore-D hardness of 60 to 80, a tensile strength of at least 2500 pounds per square inch, an elongation of from 5% to 50%, a shear strength of at least 800 pounds per square inch, a notched Izod impact strength of at least three foot pounds and a Rockwell "M" hardness of from —30 to 30.

2,611,758

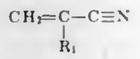
STEAM RESISTANT ISOOLEFIN-DIOLEFIN COPOLYMER RUBBERY COMPOSITION

Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application October 1, 1948, Serial No. 52,420

3 Claims. (Cl. 260—45.5)

1. The method of making a rubbery composition for use in steam-resistant articles, which method comprises mixing together from ½ to 10 parts by weight of an unvulcanized vulcanizable rubbery polymer made by polymerizing a monomeric material comprising predominantly a chlorobutadiene-1,3 containing from 1 to 2 chlorine atoms attached in the 2,3 position, and from ½ to 10 parts by weight of an unvulcanized vulcanizable rubbery copolymer of a butadiene hydrocarbon with a lesser amount by weight of an acrylic nitrile having the structure



wherein R_1 is a member of the class consisting of hydrogen and a methyl group and thereafter blending the resulting mixture with from 80 to 99 parts by weight of unvulcanized vulcanizable rubbery copolymer of from 80 to 99½ parts by weight of an isoolefin having from 4 to 7 carbon atoms with ½ to 20 parts by weight of an open-chain conjugated diolefin having from 4 to 8 carbon atoms.

2,611,759

PHENOLIC MOLDING COMPOUND

Charles Henry Hempel, Manitowoc, Wis., assignor to Heresite & Chemical Company, a corporation of Wisconsin

No Drawing. Application January 26, 1950, Serial No. 140,769

6 Claims. (Cl. 260—57)

1. The method of forming a heat setting formaldehyde base molding composition which comprises forming phenol formaldehyde resin by reacting the resin-forming ingredients in aqueous solution, and violently agitating the resin under vacuum at a temperature not substantially above 95° C., during which agitation the product passes through a syrupy phase and into a soft lumpy phase, and then stopping the agitation and cooling the resin when it forms into a dry molding powder.

2,611,760

CONDENSATION PRODUCT OF FORMALDEHYDE WITH A COPOLYMER OF A VINYL AROMATIC COMPOUND AND AN ALIPHATIC MONO-OLEFIN AND PROCESS OF MAKING SAME

Edward M. Geiser, Downers Grove, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 18, 1949, Serial No. 94,049

15 Claims. (Cl. 260—73)

1. A process for the production of a resinous material which comprises condensing formaldehyde with the copolymer of a vinyl aromatic compound and an aliphatic mono-olefin containing from about 4 to about 8 carbon atoms per molecule in the presence of a non-oxidizing acid condensation catalyst having a dissociation constant greater than 1×10^{-5}.

2,611,761

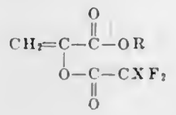
ALKYL α-FLUOROACETOXY ACRYLATES, AND POLYMERS THEREOF

Joseph B. Dickey and Theodore E. Stanin, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 11, 1950, Serial No. 179,002

12 Claims. (Cl. 260—78.3)

7. A polymer of a compound having the following general structural formula:



wherein R represents an alkyl group containing from 1 to 4 carbon atoms and X represents a member selected from the group consisting of an atom of hydrogen and an atom of fluorine.

2,611,762

VINYL ACETATE POLYMERIZATION

Stewart B. Luce, La Grange, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application February 11, 1949, Serial No. 75,970

8 Claims. (Cl. 260—78.5)

4. A method for increasing the rate of emulsion homopolymerization of vinyl acetate which consists in forming an aqueous emulsion of vinyl acetate, adding to said emulsion a perceptible amount less than 1% by weight of a polymerization accelerator selected from the group consisting of the alkenyl esters having not more than 4 carbon atoms in each alkenyl group of maleic, itaconic, diglycollic, crotonic, and benzene phosphonic acids, and heating said emulsion containing said accelerator to polymerize the vinyl acetate at an increased rate.

2,611,763

AMPHOTERIC VINYL INTERPOLYMERS

Giffin D. Jones, Midland, Mich., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 23, 1948, Serial No. 67,073

10 Claims. (Cl. 260—80.5)

9. A process for preparing an amphoteric interpolymer, which comprises preparing a mixture of which the components consist of a compound containing the group $CH_2{=}C<$ and a basic radical, a compound containing the group $CH_2{=}C<$ and an acid radical, said radicals being retained in the resulting interpolymer structure and a neutral compound containing the group $CH{=}C<$, the combined molar proportions of said acidic and basic monomers being at least 10% of the mixture, and subjecting the mixture to polymerization at a temperature from −30° to 50° C. in the presence of a polymerizing catalyst.

2,611,764

COPOLYMERS OF OXIDIZED ISOBUTYLENE FRACTIONS WITH HYDROCARBONS

Edward M. Geiser, Downers Grove, and Armand J. de Rosset, Clarendon Hills, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 9, 1949, Serial No. 114,905

15 Claims. (Cl. 260—80.7)

12. A resin comprising the copolymer of at least one member of the group consisting of a conjugated diolefin and a vinyl aromatic hydrocarbon with a fraction of liquids boiling above about 140° C. and resulting from the reaction of an aliphatic monoolefinic hydrocarbon of not more than five carbon atoms with oxygen at a temperature of from about 180° to about 300° C. and at a pressure greater than about 35 atmospheres.

2,611,765

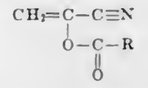
INTERPOLYMERS OF α-ACYLOXYACRYLONITRILES

Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 18, 1950, Serial No. 180,298

16 Claims. (Cl. 260—85.5)

1. A resinous interpolymer comprising from 5 to 95 per cent by weight of an α-acyloxyacrylonitrile selected from those represented by the following general formula:



wherein R represents an alkyl group of from 1 to 3 carbon atoms, and from 95 to 5 per cent by weight of a monomer selected from the group consisting of styrene, isopropenyl acetate, acrylonitrile, alkyl acrylates containing from 1 to 4 carbon atoms in the alkyl group, and alkyl α-methacrylates containing from 1 to 4 carbon atoms in the alkyl group.

2,611,766

PROCESS FOR THE FORMATION OF A SULFURIZED HALOGENATED ALIPHATIC HYDROCARBON

Nicholas M. Schneider, Bayonne, and Raymond M. Dean, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 28, 1949, Serial No. 135,416

4 Claims. (Cl. 260—139)

1. A process for the formation of a sulfurized halogenated aliphatic hydrocarbon which comprises subjecting a mixture of chlorinated wax and chlorinated kerosene to the action of elemental sulfur and sodium hydrosulfide in the presence of an alcohol as a solvent in a reaction zone, allowing the reaction to proceed for the desired period of time, permitting the reaction mixture to separate into three layers, discarding the bottom brine layer, recycling the top alcohol layer to the reaction, removing the middle product layer to a mixing zone and adding thereto water, mixing said product and said added water for until the alcohol entrained with said product is dissolved, allowing said mixture to separate into two layers, a top layer and a bottom product layer, removing the top layer from said mixing zone, removing the bottom product layer to a second mixing zone, blowing the removed product layer with a gas to remove any residual solubilizing agent and solvent, removing the blown product to a filtering zone, and filtering said product to remove extraneous material.

2,611,767

PRODUCTION OF CELLULOSE ESTERS

James Joseph Allen and John Arthur Hawkes, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Original application October 14, 1947, Serial No. 779,838. Divided and this application December 15, 1948, Serial No. 65,515. In Great Britain November 6, 1946

9 Claims. (Cl. 260—225)

8. Process for the manufacture of cellulose acetate stearate, which comprises causing stearic anhydride to react with an acetone-soluble cellulose acetate in the presence of zinc chloride and hydrogen chloride as catalyst and of ethylene dichloride in amount sufficient to dissolve the cellulose acetate stearate, then eliminating from the esterification solution substantially all the hydrogen chloride by adding to the solution ethylene oxide, and subsequently precipitating the cellulose acetate stearate from the solution.

2,611,768

UNSATURATED QUATERNARY AMMONIUM HALIDES OF CERTAIN SATURATED HETEROCYCLICS AND PROCESS OF PREPARATION

George B. Butler and Robert L. Bunch, Gainesville, Fla., assignors to Board of Commissioners of State Institutions of the State of Florida

No Drawing. Application October 18, 1949, Serial No. 122,124

11 Claims. (Cl. 260—247)

1. A quaternary ammonium halide suitable for polymer formation comprising a saturated six membered heterocyclic ring having at least one pentavalent nitrogen atom incorporated therein with up to one oxygen atom along with sufficient CH_2 groups to complete the heterocyclic ring, the remaining valence bonds of said nitrogen being satisfied by a halogen and two alkenyl radicals containing less than eight carbon atoms.

2,611,769

PREPARATION OF VINYL PYRIDINES

John T. Hays, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 2, 1947, Serial No. 765,807

2 Claims. (Cl. 260—290)

1. The process of preparing a vinyl substituted pyridine compound which comprises passing an ethyl substituted pyridine over an active high temperature dehydrogenation catalyst at a temperature between about 450° C. and about 800° C., and fractionally crystallizing the resulting reaction mixture comprising the vinyl substituted pyridine compound and the unchanged ethyl substituted pyridine compound from a low boiling petroleum hydrocarbon solvent at a temperature between about −30° C. and about −70° C.

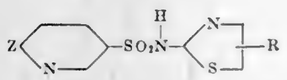
2,611,770

N-(2-THIAZOLYL)-2-HYDROXYPYRIDINE-5-SULFONAMIDES

James M. Smith, Jr., North Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 16, 1949, Serial No. 88,027
9 Claims. (Cl. 260—296)

1. Compounds of the group consisting of those having the formula



where Z is chosen from the group consisting of halogen and hydroxyl radicals, and R is a member of the group consisting of hydrogen, alkyl, aralkylhydrocarbon and aryl hydrocarbon radicals.

2,611,771

PREPARING ORGANIC PIGMENTS IN FINELY DIVIDED FORM

Donald E. Marnon, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application April 28, 1948, Serial No. 23,827
6 Claims. (Cl. 260—314.5)

1. In the process of preparing water-insoluble organic pigments in an extremely finely divided form by drowning a solution of the organic pigment in an aqueous liquid in which the pigment is insoluble, the improvement which comprises carrying out the drowning by forcing the solution of the organic pigment as a thin sheet into and wholly within a stationary to laminarly flowing body of the aqueous liquid, the sheet of pigment solution moving at a speed such that there is set up between the two bodies of liquid at the interface therebetween, a system of relative motion in which, relative to the sheet of pigment solution, the aqueous liquid is moving at a speed greater than its critical velocity and in a state of turbulent flow.

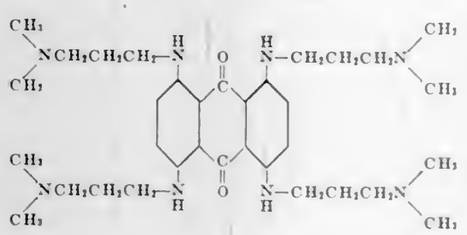
2,611,772

PREPARATION OF 1,4,5,8-TETRAAMINO-ANTHRAQUINONE COMPOUNDS

Charles F. H. Allen and Charles V. Wilson, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application December 30, 1950, Serial No. 203,804
1 Claim. (Cl. 260—378)

The anthraquinone compound having the formula:



2,611,773

ESTRADIOL 17-CYCLOPENTANEPROPIONATE

Arnold C. Ott, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application August 21, 1951, Serial No. 242,990
1 Claim. (Cl. 260—397.5)

Estradiol 17(β)-cyclopentanepropionate.

2,611,774

DIPHENYLSILOXANE COPOLYMERS AND METHODS OF PREPARATION THEREOF

Leslie J. Tyler, Midland County, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application January 9, 1950, Serial No. 137,670
2 Claims. (Cl. 260—448.2)

1. Compounds of the general formula

$$C_6H_5(CH_3)_2SiO[(C_6H_5)_2SiO]_xSi(CH_3)_2C_6H_5$$

in which x is an integer of from 1 to 3 inclusive.

2,611,775

PRODUCTION OF ARYLHALOSILANES

Arthur J. Barry, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application April 10, 1950, Serial No. 155,125. In Great Britain December 4, 1947
11 Claims. (Cl. 260—448.2)

1. The process which comprises reacting a benzenoid hydrocarbon free of aliphatic unsaturation in any side chains with a polyhalomonohydrosilane of the general formula R_nHSiCl_{3-n}, in which R represents a monovalent hydrocarbon radical free of aliphatic unsaturation and n is an integer of from 0 to 1, at a reaction temperature of from 150° C. to 420° C., at least a portion of the reaction mixture being in condensed phase; in the presence of a silicon-borate complex selected from the group consisting of (1) the reaction product of a silane of the general formula $R'_{4-a-b}H_aSiX_b$ where each R' represents a monovalent hydrocarbon radical, each X is selected from the group consisting of alkoxy and chlorine, a is an integer of from 0 to 1, b is an integer of from 1 to 4, and the sum of a and b is not greater than 4; with a compound selected from the group consisting of B_2O_3 and compounds of the general formula $(R''O)_xBR_{3-x}$ where R'' is selected from the group consisting of monovalent hydrocarbon radicals and hydrogen, R is as defined above, and x is an integer of from 1 to 3 inclusive; and (2) the reaction product of a silicon compound selected from the group consisting of siloxanes and silanols with a compound of the general formula R_yBY_{3-y} where R is a monovalent hydrocarbon radical free of aliphatic unsaturation, Y is a halogen atom and y is an integer of from 0 to 3 inclusive; whereby to produce an arylchlorosilane.

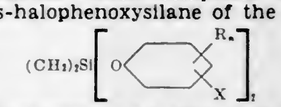
2,611,776

BIS-PHENYLOL SILANES

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application September 18, 1950, Serial No. 185,513. In Great Britain November 29, 1949
6 Claims. (Cl. 260—448.2)

1. The method of producing dimethylbis-(phenylol)silanes which comprises reacting a dimethylbis-halophenoxysilane of the formula



in which R represents an alkyl radical, X represents a halogen atom, and n is an integer from 0 to 1 inclusive, with trimethylchlorosilane by contacting the two with an alkali metal, and hydrolyzing the reaction product.

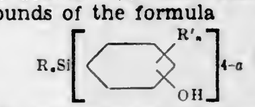
2,611,777

PHENYLOL SILANES AND RESINS THEREFROM

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application September 18, 1950, Serial No. 185,517. In Great Britain November 29, 1949
8 Claims. (Cl. 260—448.2)

1. Compounds of the formula



in which R represents an alkyl radical, R' is a radical selected from the group consisting of alkyl and phenyl radicals, a is an integer of from 2 to 3 inclusive, and n is an integer of from 0 to 1 inclusive.

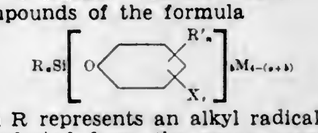
2,611,778

HALOPHENOXYSILANES

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application September 18, 1950, Serial No. 185,511. In Great Britain November 29, 1949
5 Claims. (Cl. 260—448.8)

1. Compounds of the formula



in which R represents an alkyl radical, R' is a radical selected from the group consisting of alkyl and phenyl radicals, X is a halogen atom, M is a substituent selected from the group consisting of halogen atoms and alkoxy radicals, a is an integer from 1 to 3 inclusive, b is an integer from 1 to 3 inclusive, the sum of $a+b$ being not greater than 4, c is an integer from 1 to 2 inclusive, and n is an integer from 0 to 1 inclusive.

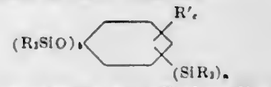
2,611,779

TRIALKYLSILYLPHENOXYSILANES

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application September 18, 1950, Serial No. 185,514. In Great Britain November 29, 1949
11 Claims. (Cl. 260—448.8)

1. Compounds of the formula



in which R represents an alkyl radical, R' is a radical selected from the group consisting of alkyl and phenyl radicals, b is an integer of from 1 to 2 inclusive, c is an integer of from 0 to 1 inclusive, and n is an integer of from 1 to 2 inclusive.

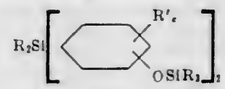
2,611,780

BIS-TRIALKYLSILYLPHENOXYSILANES

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application September 18, 1950, Serial No. 185,515. In Great Britain November 29, 1949
8 Claims. (Cl. 260—448.8)

1. Compounds of the formula



in which R is an alkyl radical, R' is a radical selected from the group consisting of alkyl and phenyl radicals, and c is an integer from 0 to 1 inclusive.

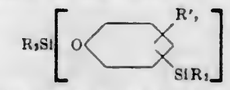
2,611,781

TRIORGANOSILYLPHENOXYSILANES

John L. Speier, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application September 18, 1950, Serial No. 185,516. In Great Britain November 29, 1949
14 Claims. (Cl. 260—448.8)

1. Compounds of the formula



in which R is a radical selected from the group consisting of alkyl and alkoxy radicals, there being at least 2 alkyl radicals attached to each silicon atom and an alkoxy radical attached to at least one of the silicon atoms, R' is a radical selected from the group consisting of alkyl and phenyl radicals, and c is an integer from 0 to 1 inclusive.

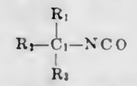
2,611,782

PREPARATION OF TERTIARY-ALKYL ISOCYANATES

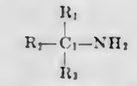
Newman M. Bortnick, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application June 30, 1950, Serial No. 171,540
6 Claims. (Cl. 260—453)

1. A process for the preparation of tertiary-alkyl isocyanates having the formula



in which R_1, R_2 and R_3 represent alkyl groups and in addition R_1 and R_2 taken together with the tertiary carbon atom, C_1, represent a cycloaliphatic radical which carries the alkyl substituent, R_3, on the same carbon atom which is joined to the isocyanate group, —NCO, the number of carbon atoms in the groups represented by R_1, R_2, and R_3 totalling three to eighteen, which process comprises heating a mixture containing 75 to 25 mole percent of urea and 25 to 75 mole percent of a tertiary-alkyl amine of the formula



in which the characters R_1, R_2, R_3, and C_1 are identical with the same characters described above, at a temperature from 100° C. to 150° C.

until the liberation of ammonia has substantially ceased, then heating the resultant product to a temperature from 180° C. to 250° C. separating the resultant decomposition products and thereafter isolating the tertiary-alkyl isocyanate.

2,611,783

SYNTHESIS OF ESTERS OF THIOLDIMETHYLVALERIC ACID

Roderick S. Spindt, Gibsonia, and Donald R. Stevens, Wilkinsburg, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application February 17, 1949, Serial No. 77,048

14 Claims. (Cl. 260—455)

1. A process for the production of an alkyl ester of thioldimethylvaleric acid which comprises reacting the crude reaction product resulting from the hydrolysis of 4-neopentyl-1,2-dithia-4-cyclopentene-3-thione with an alkyl sulfate, and separately recovering from the reaction mass thus obtained an alkyl ester of thioldimethylvaleric acid.

2,611,784

DIALKYL BICYCLO [2.2.1]-5-HEPTENE-2-PHOSPHONATES

Elbert C. Ladd, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 12, 1951, Serial No. 236,461

2 Claims. (Cl. 260—461)

1. A dialkyl bicyclo[2.2.1]-5-heptene-2-phosphonate.

2,611,785

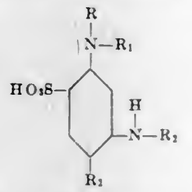
N-SUBSTITUTED 4,6-DIAMINO METANILIC ACIDS AND THE CORRESPONDING NITRO DERIVATIVES

Robert C. Gunther, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 29, 1949, Serial No. 124,501

5 Claims. (Cl. 260—509)

1. Compounds of the following structural formula:



wherein R is a member selected from the class consisting of hydrogen and lower alkyl radicals, R_1 is a member selected from the class consisting of lower acyclic aliphatic radicals and a monocyclic carbocyclic aromatic radical, R_2 is hydroxy lower alkyl, and R_3 is a member selected from the class consisting of nitro and primary amino.

2,611,786

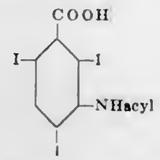
3-CARBOXYLIC ACYLAMINO-2,4,6-TRIIODO BENZOIC ACIDS AND THE ETHYL ESTER AND NONTOXIC SALTS

Vernon H. Wallingford, Ferguson, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri

No Drawing. Application May 31, 1950, Serial No. 165,355

11 Claims. (Cl. 260—518)

1. A compound selected from the group consisting of a 3-acylamino-2,4,6-triiodobenzoic acid of the general formula:



where acyl represents a lower aliphatic carboxylic acyl radical, and the ethyl ester and nontoxic salts thereof.

2,611,787

FLUOROCARBON ORTHO ESTERS

Torkil Holm, Minneapolis, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application May 19, 1951, Serial No. 227,285

1 Claim. (Cl. 260—615)

The new and useful compounds of the class consisting of the methyl, ethyl, propyl and butyl orthoesters of perfluoro-alkyl mono-carboxylic acids, represented by the formula:

$$C_nF_{2n+1}C(OR)_3$$

where n has an integer value of 1 to 11 and "R" is the alkyl hydrocarbon group.

2,611,788

MODIFICATION OF DRYING OILS

Herman S. Bloch, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application February 18, 1948, Serial No. 9,332

8 Claims. (Cl. 260—666)

1. A process for modifying a drying oil comprising a mixture of hydrocarbon conjunct polymers containing polyolefinic, cyclic hydrocarbons having conjugated and non-conjugated unsaturation, which comprises reacting the drying oil with an aliphatic mono-olefinic hydrocarbon at a temperature of from about 50° C. to about 300° C.

2,611,789

PRODUCTION OF ALPHA OLEFINS

George M. Good, Albany, and Bernard S. Greensfelder, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application October 17, 1949, Serial No. 121,908

4 Claims. (Cl. 260—683)

1. A process for the production of alpha olefins which comprises catalytically cracking a feed stock consisting largely of paraffins having at least 6 carbon atoms and having a characterization factor of at least 12.35, at a temperature of at least 540° C. but not substantially in excess of 700° C. and at a liquid hourly space velocity of at least 5 affording a substantial conversion of the stock, the catalyst being activated carbon of turbostratic structure, thereby to produce a product consisting predominantly of alpha olefins and paraffins.

ELECTRICAL

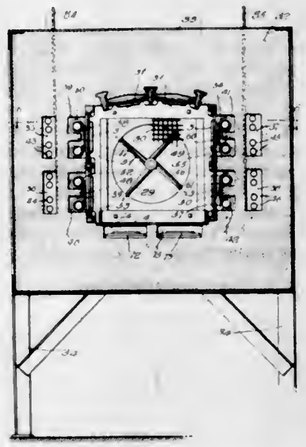
2,611,790

ELECTRIC HEAT TREATING FURNACE

Harold E. Koch, Pewaukee, Wis., assignor to Hevi Duty Electric Company, Milwaukee, Wis., a corporation of Wisconsin

Application May 24, 1949, Serial No. 95,083

6 Claims. (Cl. 13—20)



1. A heat treating furnace comprising a housing of heat insulation material, a furnace chamber within said housing, a plurality of transversely aligned spaced recesses formed in said heat insulation material, a plurality of temperature control means arranged in the recesses in said housing, said temperature control means comprising successively arranged radiant heating means and convection heating means, and a cooling means associated with both of said means, said means being aligned transversely with each other within the spaced recesses in said housing on opposite sides of said chamber, said radiant heating means being disposed in a recess in said heat insulation material immediately adjacent the furnace chamber, and the convection heating means being disposed in recesses intermediate said radiant heating means and said cooling means.

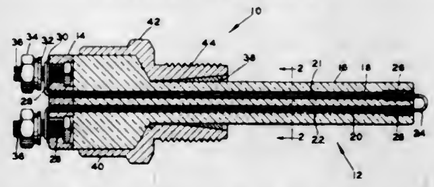
2,611,791

THERMOCOUPLE MEANS

William E. Brandau, Westwood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application February 9, 1950, Serial No. 143,225

5 Claims. (Cl. 136—4)



1. A probe for measuring the temperature of gases comprising, in combination, an elongated annular ceramic section including an end portion of larger diameter, a pair of through longitudinal holes in said section, a dissimilar conductor through each hole, said conductors having a diameter less than said holes and interfused at one end of said section, a resinous insert in each hole adjacent the base of said section, said inserts supporting said conductors away from the walls of said holes, a pair of terminal inserts in said end portion, said conductors secured to said inserts, a collar about one end of said section and an annular wedge securing said collar to said section, said collar threaded for installing said probe.

2,611,792

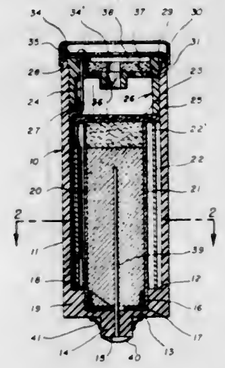
METHOD OF MAKING ELECTRIC ACCUMULATORS

Henri G. André, Montmorency, France, assignor to Yardney International Corp., a corporation of New York

Application April 26, 1950, Serial No. 158,165

In France April 29, 1949

2 Claims. (Cl. 136—6)



1. The method of making an electric battery which comprises the steps of placing a positive electrode containing an active material more electropositive than zinc inside a rigid, cylindrical casing substantially concentrically with and spaced from the wall of said casing, forming a tubular zinc liner with a longitudinal slit extending over the entire length of the liner, placing said liner inside the casing adjacent said wall, inserting a tubular separator of a material swellable in an alkaline electrolyte between the liner and said positive electrode, and introducing sufficient alkaline electrolyte into the casing to cause said separator to swell and to apply said liner under pressure against said wall.

2,611,793

DRY CELL WITH IMPROVED THERMOPLASTIC SEAL

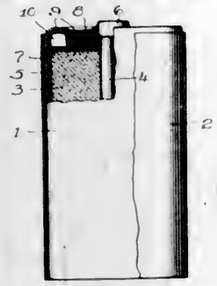
Arthur W. Simpson, Freeport, Ill., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill., a corporation of Delaware

Application September 15, 1948, Serial No. 49,322

9 Claims. (Cl. 136—133)

1. In a dry cell, an integral metal can having a top portion and a body portion, a central terminal within said can and exposed at the top of the cell, a flat washer of non-conducting mate-

rial spaced from the top of the cell and extending radially from said central terminal toward said can, said top portion of said can extending inwardly at the top of the cell to a location intermediate said central terminal and said body por-



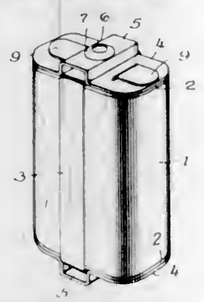
tion of said can and thence extending downwardly to said washer, and a body of sealing material upon said washer and confined between said central terminal and the down-turned portion of said top portion of said can in sealing engagement therewith.

2,611,794

TERMINAL ASSEMBLY FOR ELECTRIC-CELL BATTERIES

Jack L. Peterson, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware

Application June 26, 1950, Serial No. 170,359
8 Claims. (Cl. 136—135)



2. In an electric cell battery, a terminal assembly including a clip of sheet metal attached to and electrically connected with the cells of said battery, said clip having a tab projecting outwardly therefrom, that improvement therein comprising a moisture impervious electrically non-conductive continuous coating covering said cells and extending over said clip including said tab, and a metallic terminal plate overlying said clip and coating, said plate having a narrow slot therein snugly passing the tab therethrough in frictional engagement with an edge thereof, whereby at least a portion of said coating is scraped from said tab during assembly.

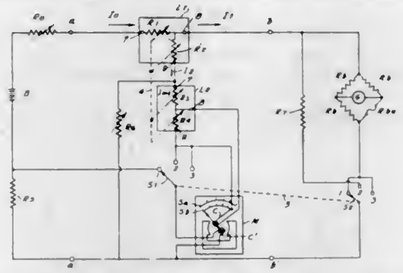
2,611,795

POWER MEASURING BRIDGE

Herbert J. Carlin, East Orange, N. J., assignor to Polytechnic Institute of Brooklyn, Brooklyn, N. Y., a corporation of New York

Application November 15, 1948, Serial No. 60,037
9 Claims. (Cl. 171—95)

1. A circuit for measuring high frequency power comprising a Wheatstone bridge having a bolometer element connected in one arm thereof, a source of direct current for biasing said bridge, a pair of lines connecting said source to diagonal points on said bridge, an attenuator interposed between said source and said bridge, said attenuator comprising a series arm connected in series with one of said lines and a shunt arm included in a path connected across said lines with means to simultaneously vary said arms to maintain



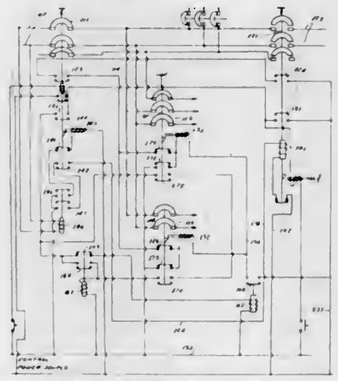
the input impedance of the attenuator constant, and a direct current indicating meter having two operating coils, one of which is connected in series with the shunt path of said attenuator and a second constant-impedance attenuator connected in series with said shunt path and energizing the other coil of said meter.

2,611,796

CIRCUIT BREAKER CONTROL

Amado Conangla, Sharon Hill, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 13, 1951, Serial No. 236,675
13 Claims. (Cl. 171—97)



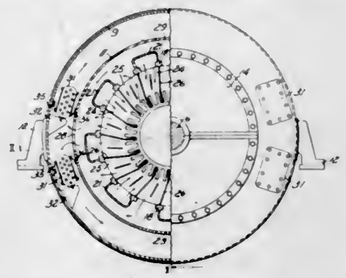
13. In an electrical system having a first and a second source of power for feeding electrical energy to loads including loads designated non-essential; a first circuit breaker having an open and a closed position for controlling energy supply from said first source of power; a second circuit breaker having an open and a closed position for controlling energy supply from said second source of power; a trip magnet operable when energized to trip said first circuit breaker; a closing magnet operable when energized for operating said second circuit breaker to its closed position; means including an undervoltage relay operable responsive to a voltage failure of said first source for completing an energizing circuit for said trip magnet; and the energizing circuit for said closing magnet for operating said second circuit breaker to its closed position; a circuit breaker for each of said designated non-essential loads, each circuit breaker having an open and a closed position; a trip magnet for each of said last mentioned circuit breakers; a first relay; a second relay; said first relay having an energizing circuit therefor effected by said first circuit breaker in its open position and said second circuit breaker in its closed position; energizing circuits for said trip magnets of said circuit breakers of said non-essential loads controlled by the energization of said first relay and said first circuit breaker in its open position and second circuit breaker in its closed position; an energizing circuit for said second relay effected by said circuit breakers for said non-essential loads in their open position, and said first circuit breaker in open position and said second circuit breaker in closed position, said second relay when energized de-energizing said first relay to permit reclosing of said circuit breakers for said non-essential loads and a self-locking circuit for said first relay controlled by said first circuit breaker in open position and said second circuit breaker in closed position.

2,611,797

DYNAMOELECTRIC MACHINE WITH RESILIENTLY SUPPORTED STATOR

Sterling Beckwith, Milwaukee, and William F. King, Wauwatosa, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.

Application July 8, 1950, Serial No. 172,636
7 Claims. (Cl. 171—209)



1. A gas cooled dynamoelectric machine comprising a shell having rigid radially disposed end rings secured to the ends thereof, a laminated armature core subjected to radial vibrations by the magnetic field rotating with respect thereto, a frame of generally tubular configuration with said core secured radially therein intermediate the ends of said frame, said frame being rigid longitudinally and flexible radially of said core, means for supporting said frame within said shell and for isolating radial vibrations of said core from said shell, said means comprising said ends of said frame secured to said end rings to space apart said shell and said frame, a cooler disposed and supported on said shell independently of said frame, means for circulating ventilating gas in said machine and through said cooler, and a baffle disposed between said cooler and said frame to prevent said gas bypassing said cooler, said baffle being radially resilient so that vibrations of said core are not transmitted to said cooler and said shell.

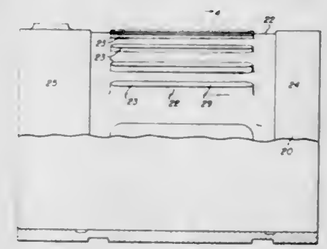
2,611,798

ELECTRIC MOTOR FRAME HAVING COOLANT SYSTEM INCORPORATED THEREIN

Robert R. Hayes, Cleveland, Ohio, assignor to The Reliance Electric & Engineering Co., a corporation of Ohio

Application December 22, 1950, Serial No. 202,210
4 Claims. (Cl. 171—252)

1. In a housing for an electric motor, a unitary hollow cylindrical member formed by casting and having an outer surface, a plurality of raised ribs spaced about said outer surface and extending longitudinally of said cylindrical member, said ribs integrally joining said cylindrical member throughout at least a major portion of the length thereof, each of said ribs having side surfaces curving into said outer surface with the said side surfaces of all the ribs disposed in substantially parallel planes, a raised first end portion integrally joined with said cylindrical member on one end thereof and spaced from the ends of the ribs, a raised second end portion integrally joined with said cylindrical member on the other end thereof and spaced from the ends of the ribs, said ribs and said end portions being formed on the outer surface of said cylindrical member by casting the same as a single unit.

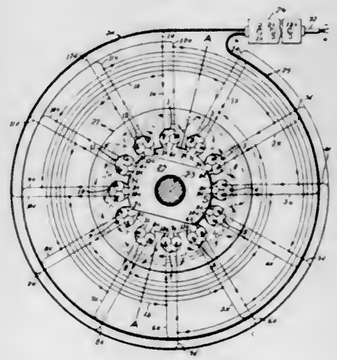


2,611,799

ROTARY ELECTROMAGNETIC POSITIONING DEVICE

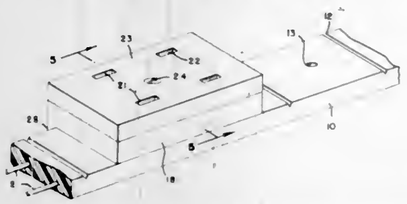
Howard B. Ackerman, Rockville Centre, N. Y.

Application December 29, 1949, Serial No. 135,647
14 Claims. (Cl. 172—36)



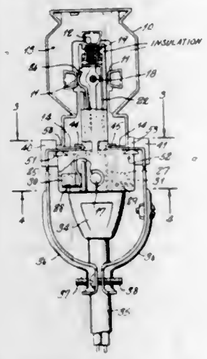
1. In a rotary electromagnetic positioning device including a magnetic rotor having opposed poles at right angles to its axis of rotation, means for selectively producing a magnetic field at a number of positions around the axis of the rotor, said means including a stator ring of magnetizable material surrounding the rotor, a coil carried by said ring for each position for which the device is made, said coils being arranged around said ring in regular numerical order, each coil having two substantially spaced sections parallel to the axis of the rotor, corresponding sections of the coils being arranged around the ring in regularly spaced relationship, and current conducting means interconnecting the coils in closed series.

2,611,800
WIRING SYSTEM OF CONDUCTORS PERMANENTLY EMBEDDED IN INSULATION
Carl A. Naughton, Sandston, Va.
Application March 8, 1950, Serial No. 148,335
5 Claims. (Cl. 173—334.1)



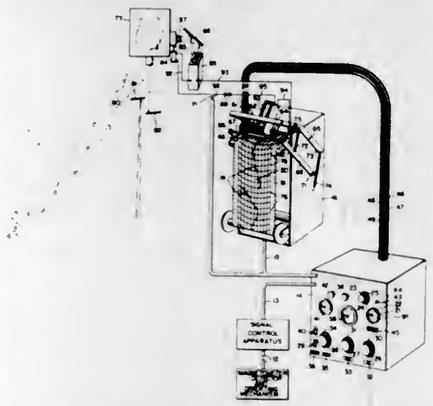
5. A wiring system of conductors comprising a pair at least of separated bare wires, a molding of frangible insulating material in which said separated bare wires are embedded, said molding having transverse scorings at intervals to provide planes of weakness for cleavage or breakage to expose the ends of the wires for further extension, said molding including integral current tap-off sections having tap-off sockets opening through the outer surface of the molding and opening inwardly to the respective bare wires, insulating blocks adapted to be applied selectively to said tap-off sections and having tap-off holes adapted to register with said tap-off sockets, said blocks also having means adapted to engage a part of said molding to cause registration of said tap-off holes with said respective tap-off sockets of the tap-off sections, electrical conductors on said blocks and fastenings passing through said conductors and through said tap-off holes and through said tap-off sockets into electrical engagement with said bare wires and means for interlocking said fastenings with said molding to mechanically hold the conductors to said blocks and said blocks to said molding.

2,611,801
COLLECTOR OR POWER TAKE-OFF PLUG FOR BUS BAR DUCT SYSTEMS
Herman J. Hammerly, Cecil B. Turton, and Rynold A. Salomone, Plainville, Conn., assignors, by mesne assignments, to General Electric Company, a corporation of New York
Application February 24, 1949, Serial No. 78,102
8 Claims. (Cl. 173—361)



1. A plug-in collector for a bus bar duct system comprising an insulating body having an end contact for engaging a central bus bar in a duct and a contact at one side of the body for engaging a bus bar at one side of such duct, a cable having conductors connected to said contacts, a yoke secured to said cable and having outwardly springing arms embracing said insulating body and terminating in outwardly opening hooks for engaging intuned spaced apart flanges of such a duct when inserted therein.

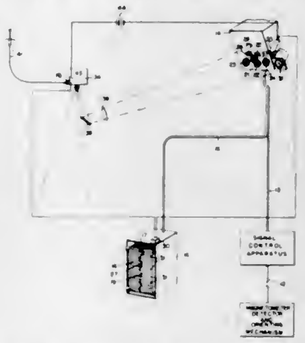
2,611,802
METHOD AND APPARATUS FOR MAGNETIC EXPLORATION
Homer Jensen, Philadelphia, Pa.
Application July 2, 1946, Serial No. 680,906
6 Claims. (Cl. 175—182)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A method of geophysical surveying which comprises the steps of flying an aircraft and magnetometer apparatus associated therewith along a predetermined traverse, measuring the total magnetic field with said magnetometer so as to produce a continuous record trace corresponding to space changes in the absolute or static value of the earth's total magnetic field and producing simultaneously therewith a continuous photographic record of the terrain beneath the plumb line of the aircraft, edge-marking the record chart upon which the record trace appears at selected intervals along the traverse and simultaneously therewith superimposing a serial number on the photographic record, and at selected intervals along the traverse stamping on the record trace a serial number corresponding to the serial number appearing on the photographic record and a plurality of numbers indicative of the sensitivity of the magnetometer apparatus and the magnetic value of the base line of the record chart.

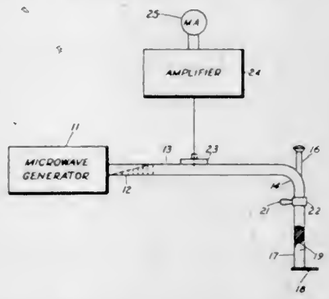
2,611,803
METHOD AND APPARATUS FOR CONDUCTING GEOPHYSICAL SURVEYS
Lynn H. Rumbaugh, Washington, D. C., Homer Jensen, Philadelphia, Pa., and James R. Balsley, Jr., Arlington, Va.
Application July 10, 1946, Serial No. 682,518
6 Claims. (Cl. 175—182)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method of conducting a geophysical survey which comprises the steps of flying an aircraft and magnetometer apparatus associated therewith along a predetermined traverse, measuring the total magnetic field, producing within the aircraft a continuous record trace corresponding to space changes in the absolute or static value of the earth's total magnetic field sensed by a detecting element of the magnetometer apparatus adapted to be maintained in alignment with the direction of the earth's magnetic field as the aircraft moves along the traverse, producing at each of a plurality of spaced intervals along the traverse a composite photographic record of images of an altimeter dial indicative of the height of the aircraft above



the terrain, of control dials indicative of the sensitivity of the magnetometer apparatus and of the magnetic value of the base or center line of the recording chart upon which the record trace appears, of the serial number appearing on a register counter, and of the terrain beneath the plumb line of the aircraft, and simultaneously edge-marking the record chart and advancing the numbers of the register counter as each photographic record is produced.

2,611,804
MEASURING APPARATUS
John F. Zaleski, Queens Village, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application January 28, 1948, Serial No. 4,869
4 Claims. (Cl. 175—183)



1. A system for measuring variations in dielectrics which have the characteristics of reflecting variable amounts of microwave energy depending on the dielectric quality thereof comprising, a microwave generator for producing signal energy having a predetermined wavelength in the microwave region, a hollow wave guide connected to said microwave generator on which the signal energy produced by said generator is impressed, a sample chamber forming the termination for said wave guide, a dielectric sample contained in and filling said sample chamber, a decoupling attenuator located in said wave guide section for preventing multiple reflection of the signal energy impressed thereon, a microwave detector positioned intermediate said decoupling attenuator and said sample chamber and measuring means connected to the output of said detector.

2,611,805
INSTRUMENT FOR LOCATING FAULTS IN ELECTRICAL CABLES AND/OR MEASURING ELECTRICAL CAPACITY
Henry James Osborn and Alan Derek Osborn, Glasgow, Scotland
Application February 25, 1948, Serial No. 10,834
In Great Britain March 5, 1947
1 Claim. (Cl. 175—183)

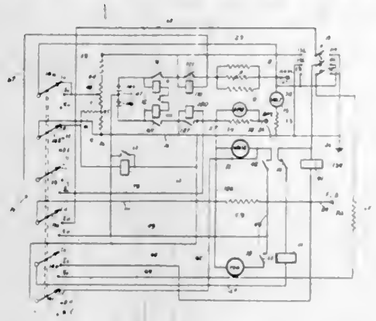


An instrument for visibly indicating the location of an open circuit fault in a cable embodying two open circuits having three terminals, one of which is common to both circuits, and which terminals are for connection respectively to a good core, screen, sheath or earth, to a good core of known length and to one end of a broken core, means for producing an oscillatory current by which both circuits can have impressed thereon a similar potential, an ammeter to indicate the current in the said circuits, means to regulate the current flowing through the ammeter, a resistance having an impedance similar to that of the ammeter and a double pole switch which, when in one position, connects in series the first terminal, the means for regulating the current passing through the ammeter, the ammeter and the second terminals, while simultaneously placing the third terminal in series with the said resistance and when reversed placing the first terminal, the means for regulating the current and the third terminal in series and simultaneously connecting the second terminal to said resistance, the arrangement and construction being such that when the three terminals are connected as aforesaid and the switch is in the first mentioned position the current flowing in the circuit containing the ammeter can be adjusted so that the ammeter gives a reading corresponding to the length of the sound core and when it is reversed the reading then indicates the length of the broken core in terms of the length of the sound core, the load on the means for producing the oscillatory current remaining constant in both positions of the switch.

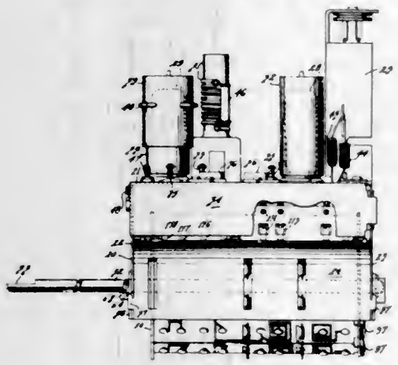
2,611,806
TESTING DEVICE FOR VOLTAGE AND CURRENT REGULATORS
Julius Agin, Bergenfield, N. J., assignor to Patterson O. Stewart, Bronxville, N. Y.
Application February 25, 1949, Serial No. 78,361
18 Claims. (Cl. 175—183)

1. A device for testing a voltage and current regulator of the type having at least three external connections, comprising a first, a second and a third terminal respectively connectable to said three external connections, a source of electrical energy, first circuit means connect-

ing said source in an energizing circuit across one combination of two of the said terminals, control means in said energizing circuit for varying the output of said source, current responsive indicator means, a source of current, second circuit means connecting said indicator means and said source of current in a control circuit across another combination of two of the said terminals, said indicator means being adapted to detect a substantial change in the output of said source of current, due to a change in the impedance of said control circuit, and to give a signal upon such change of impedance, and measuring means connected to said control means for determining the magnitude of the output of said source of electrical energy at the instant of said signal.

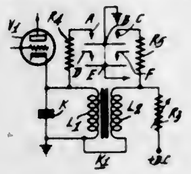


2,611,807
MULTIPLE BAND TURRET-TYPE TUNING SYSTEM
Angelo G. Lazzery, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1949, Serial No. 102,367
24 Claims. (Cl. 175—298)



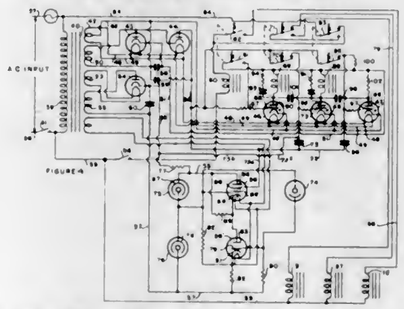
1. An electric circuit unit for mounting in a signal transfer apparatus and having a plurality of electric circuit elements for cooperation in a selective signal transfer circuit held by said apparatus; said unit including an integral support structure on which all of said circuit elements are held, said support structure being perforated by at least one mounting slot having two differently dimensioned intercommunicating slot portions extending in generally parallel relation in one direction across said support structure, and said support structure having reduced mounting ends extending out substantially perpendicular to said direction.

2,611,808
RELAY CONTROL SYSTEM
Howard C. Lawrence, Delaware Township, Camden County, and George E. Yewdall, Palmyra, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application January 7, 1948, Serial No. 1,032
4 Claims. (Cl. 175—320)



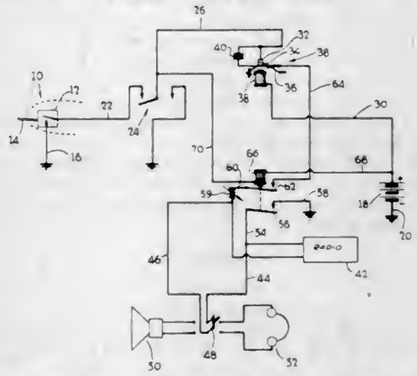
1. A relay system comprising, in combination, an armature having alternative contacting positions and a neutral position, a pair of operating coils, one of said coils being adapted to be energized by a current to be controlled and being so poled that current therethrough tends to cause movement of said armature in one direction, the other of said coils being adapted to be energized by a control voltage and being so poled that current therethrough tends to cause movement of said armature in the opposite direction, first and second current reducing devices, first and second pairs of cooperating contacts on said armature, means including said first pair of contacts and said first current reducing device whereby actuation of said armature from its neutral position in said one direction closes said first pair of contacts and connects said first current reducing device into circuitry with said other coil to reduce the current flowing therein, means including said second pair of contacts and said second current reducing device whereby actuation of said armature from its neutral position in said other direction closes said second pair of contacts and connects said second current reducing devices into circuitry with said one of said coils to reduce the current flowing therein.

2,611,809
CONTROL SWITCHING SYSTEM FOR AUTOMATIC EXPOSURE TIMERS
Robert H. Lee, Indianapolis, Ind., assignor, by mesne assignments, to Micro Recording Company, a corporation of Florida
Original application October 9, 1946, Serial No. 702,124. Divided and this application July 5, 1947, Serial No. 759,205
12 Claims. (Cl. 175—321)



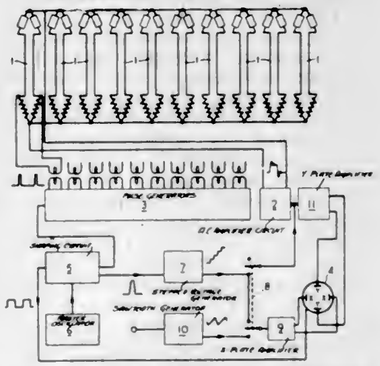
1. In combination, a pair of grid controlled gas tubes, means normally applying a negative potential to the grids of both tubes, time delay means rendered operative upon the firing of one tube for applying starting potential to the grid of the second tube, and delay-control means including a light sensitive device controlling said time delay means to vary the period of delay with changes in value of light falling on said device.

2,611,810
AIRPLANE WARNING SYSTEM
Leonard M. Greene, Scarsdale, N. Y.
Application February 18, 1950, Serial No. 144,986
1 Claim. (Cl. 177—311)



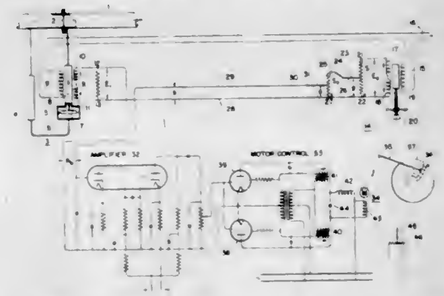
For use in an airplane having a radio and a source of electric power, and wherein an actutor is provided which upon the imminence of danger closes a switch that completes a circuit to the source of power: an electrically actuable sounder, means to connect said sounder in series in the circuit between the switch and the source of power, said sounder including a pair of contacts in the circuit of the sounder and means to rapidly open and close said contacts at an audio frequency when the sounder is actuated, a relay having an operating coil and a normally open switch which is arranged to be closed upon energization of said coil, means to connect said coil in the circuit between the switch and the source of power, and circuit means to impress the potential of said contacts upon the output of the radio, said last-named means being connected to the radio output through said relay switch.

2,611,811
ELECTRICAL MEASUREMENT OF PHYSICAL EFFECTS, FOR EXAMPLE MECHANICAL STRAINS
James Garrett Yates, Cambridge, England
Application August 10, 1948, Serial No. 43,464
In Great Britain August 15, 1947
10 Claims. (Cl. 177—351)



1. An electrical measuring apparatus comprising a transducing device having an input and an output and adapted when supplied at its input with a pulse of a predetermined waveform to deliver at its output a pulse having separate parts of its waveform displaced in relation to corresponding parts of the waveform of the input pulse by amounts proportional respectively to the value of a quantity to be measured and to electrical characteristics of the transducing device, means for generating pulses of the predetermined waveform and feeding them to the input of said transducing device, and means for measuring only that part of each pulse delivered at the output of said device which represents the value of said quantity.

2,611,812
ELECTRICAL CONTROL SYSTEM
Anthony J. Hornfeck, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application December 1, 1945, Serial No. 632,215
10 Claims. (Cl. 177—351)

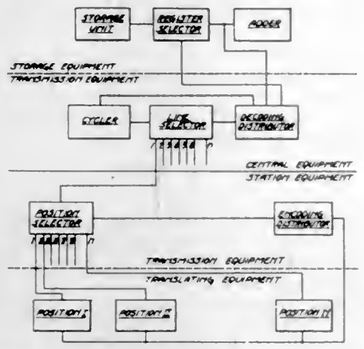


1. In a calculating network, in combination, a transmitter including means to continuously convert exponential function of a variable to an equivalent electric potential; a receiver having means to provide an opposing potential at least as large as the maximum value of the first potential; potential adjusting means between the receiver potential and the transmitter potential including; a series of individual potential adjusting devices arranged with the first device of the series selecting a portion of the energization potential of the receiver and each subsequent device of the series selecting a portion of the potential of its preceding device; an indicator movable over a linear scale; means responsive to unbalance between the transmitter and receiver potentials for actuating a balancing and indicator operating motor; mechanical connections between the motor and several individual potential adjusting devices to adjust them linearly; and a mechanical connection between the motor and indicator to move the same linearly over said scale.

2,611,813
MAGNETIC DATA STORAGE SYSTEM
Thomas K. Sharpless, Haverford, and Edwin S. Eichert, Jr., Springfield, Pa., assignors to Technitrol Engineering Company, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application May 26, 1948, Serial No. 29,324
24 Claims. (Cl. 177—353)

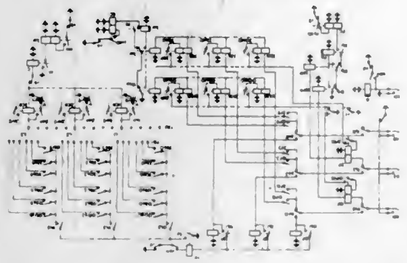
6. In an information storage system, movable recording means including a plurality of registers adapted to receive and store temporarily numerical information, means for producing different register-selection voltage combinations representative respectively of said registers and

occurring successively in timed relation with said movable recording means, means under control of an operator at a remote position for producing a group of pulses indicative of a particular register and also containing numerical information which it is desired to store in that register, means



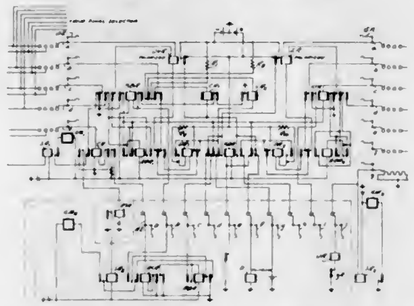
responsive to some of said pulses for producing a pattern of voltages, means responsive coincidently to said voltage combinations and said voltage pattern for selecting said register, and means for temporarily storing said numerical information in said register.

2,611,814
SELECTION CIRCUITS
Peter Lincoln Law, Roseville, near Sydney, New South Wales, Australia, assignor to Communication Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a corporation of the Australian capital territory
Application August 13, 1949, Serial No. 110,149
In Australia September 24, 1948
7 Claims. (Cl. 177—353)



4. An electrical circuit arrangement for the selective operation of a plurality of devices according to three-digit coded designations thereof, comprising: a set of contact members; a first digit relay group including one relay for each first digit of said code and selectively responsive to actuation of said contact members in accordance with said first digit and a first pilot relay connected therewith and operated thereby; a first switching relay connected and operated with any relay in said first digit relay group; a plurality of second digit relay groups, one group being provided for each first digit in said code; a second pilot relay for each of said second digit relay groups and connected therewith and operated thereby; each of said second digit relay groups including one relay for each second digit of said code and selectively responsive to actuation of said contact members in accordance with said second digit; a second switching relay connected and operated with any relay in any of said second digit relay groups; a plurality of selective devices electrically connected with contacts of said digit relays of said second digit relay groups; a third digit relay group, including one relay for each third digit of said code and selectively responsive to actuation of said contact members in accordance with said third digit; and a third switching relay connected and operated with any relay of said third digit relay group; said first switching relay transferring the connections from said key-operated contacts under the control of said first pilot relay to one of said second digit relay groups selected by the operation of a relay in said first digit relay group; said second switching relay transferring the connections from said key-operated contacts under the control of said second pilot relay to said third digit relay group; said third switching relay closing the circuit for one of said selective devices depending on the joint operation of one of the digit relays in one of said second digit relay groups and in said third digit relay group.

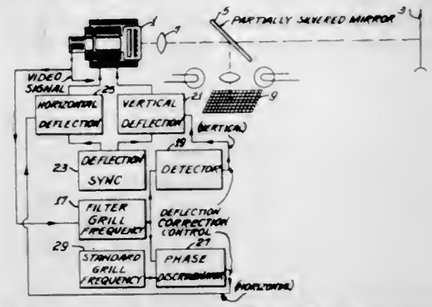
2,611,815
SIGNALING SYSTEM
Roelof M. M. Oberman, The Hague, Netherlands
Application March 28, 1950, Serial No. 152,451
In the Netherlands July 26, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 26, 1961
4 Claims. (Cl. 178—2)



4. A telegraph system comprising in combination, a cord finder switch having a first bank of contacts, a first wiper cooperating therewith, a second bank of contacts, a second wiper cooperating therewith, a third bank of contacts, and a third wiper cooperating therewith; a plurality of stations including at least one station having a single current line and at least one station having a double current line; means for converting said one station having a single current line from simplex to duplex and vice versa; a plurality of transmitting contacts and a receiving magnet forming part of said one station having a single current line, said plurality of transmitting contacts and said receiving magnet being connected in series to each other when said one station having a single current line is operating in simplex; means for connecting one terminal of said plurality of transmitting contacts to a contact of said first contact bank of said cord finder switch; means forming part of said converting means and removing the series connection of said plurality of transmitting contacts and said receiving magnet and connecting the same to a contact of said second contact bank of said cord finder switch; means for connecting the lines of said station having a double current line, respectively, to other contacts of said first and second contact banks of said cord finder switch; a receiving relay in said repeater receiving telegraph signals emitted by any of said stations connected to said repeater over said cord finder switch, said receiving relay having two windings connected in series to each other, one of said windings of said receiving relay being connected to said first wiper of said cord finder switch; a first discriminatory relay in said repeater; means for energizing said first discriminatory relay when one of said stations having a single current line is connected to said repeater, said first discriminatory relay remaining de-energized when one of said stations having a double current line is connected to said repeater; a second discriminatory relay in said repeater, said second discriminatory relay being connected in series to a contact closed by the energization of said first discriminatory relay; means for energizing said second discriminatory relay when one of said stations having a single current line is connected to said repeater and changed from simplex to duplex; a grounded resistor connected to a contact of said third contact bank of said cord finder switch, said contact of said third contact bank being brushed by said third wiper simultaneously with the brushing by said first and second wipers, respectively, of said contacts of said first and second contact banks connected to the terminals of said station having a single current line; a first contact controlled by said first discriminatory relay and connected to the junction of said windings of said receiving relay; a contact controlled by said second discriminatory relay connected in series to said first contact of said first discriminatory relay, said first contact being closed upon energization of said first discriminatory relay and connecting the junction of said windings to said contact of said second discriminatory relay, said contact of said second discriminatory relay having two positions in which the same is connected with one terminal and the other terminal, respectively, of battery; and a second contact controlled by said first discriminatory relay and connected to the end of the other of said windings of said receiving relay, said second contact connecting said other winding to said third wiper of said cord finder switch when said first discriminatory relay is energized and directly to ground when said first discriminatory relay is de-energized, whereby when a station having a simplex single current line is connected to said repeater said first discriminatory relay is energized and said second discriminatory relay is de-energized and said other winding of said receiving relay is connected to ground over said resistor, when a station having a duplex single current line is connected to said repeater both said discriminatory relays are energized and said other winding of said receiving relay is connected to ground over said resistor, and when a station having a double current line is connected to said repeater neither of said discriminatory relays is energized and said other winding of said receiving relay is directly connected to ground.

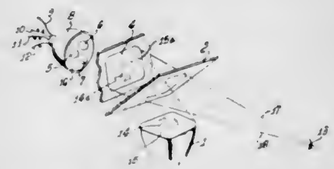
2,611,816
DEFLECTION CONTROL SYSTEM
Francis J. Darke, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1948, Serial No. 12,083
18 Claims. (Cl. 178—5.2)

1. A control system comprising in combination, means for optically developing a checkerboard type pattern bearing a relation to a desired scanning raster, means for scanning said pattern with an exploring point to form an alternating voltage whose amplitude is indicative of relative position in a first direction and whose frequency is indicative of the relative velocity of said exploring point, means for developing a first control voltage from said alternating voltage by rectification, means for developing a second



control voltage from said unrectified alternating voltage by frequency comparison with a predetermined frequency, and means for controlling the position of said exploring point in said first direction with said first control voltage and controlling the velocity of said exploring point with said second control voltage.

2,611,817
COLOR-PICTURE
Peter Schwarz, Los Angeles, Calif.
Application March 18, 1950, Serial No. 150,449
3 Claims. (Cl. 178—5.4)

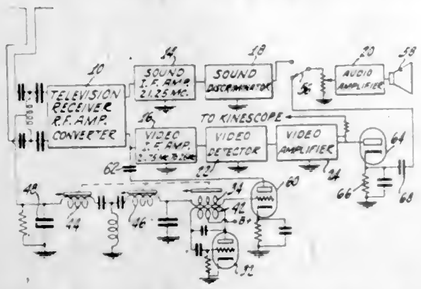


1. In a color picture system: a plurality of light sources for producing different colors; means forming by aid of said sources a regular succession of substantially uniform color fields in repeated cycle and corresponding to said colors; means producing a succession of picture fields in which the intensities of the component areas correspond to the desired intensity of color components corresponding to said colors; and a mirror having light transmitting and light reflecting properties; said mirror being so placed relative to the color fields and the picture fields that these fields appear superimposed, one of the superimposed fields being reflected from the mirror and the other of the superimposed fields being viewed through the mirror.

2,611,818
COMBINATION RADIO AND TELEVISION RECEIVING SYSTEM
Winfield R. Koch, Mariton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 1, 1949, Serial No. 130,507
7 Claims. (Cl. 178—5.8)

4. In a television receiving apparatus comprising a superheterodyne converter for producing amplitude modulated video intermediate frequency signals, a restricted bandpass amplifier for said video intermediate frequency signal, and a sound amplifier designated for normally

communicating sound intelligence detected from frequency modulated signals accompanying a received video radio carrier, an amplitude modulation receiving arrangement for standard broadcast band frequencies comprising in combination a fixed frequency oscillator having a frequency which when increased by the lowest amplitude modulation broadcast carrier frequency will fall within the bandpass of said video intermediate



frequency amplifier, a tunable selecting circuit for broadcast frequencies, a heterodyning circuit having its input connected with the outputs of said oscillator and said selecting circuit, means for rectifying the output of said video intermediate frequency amplifier and means for selectively applying said rectified output to said sound amplifier for reception of amplitude modulated broadcast intelligence.

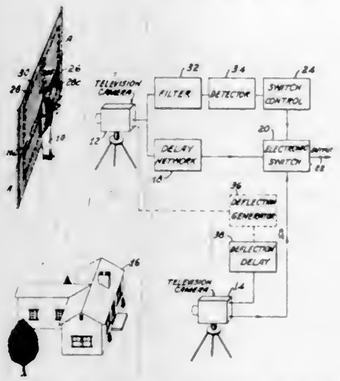
2,611,819

TELEVISION SIGNAL CONTROL SYSTEM

Robert Serrell, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 26, 1949, Serial No. 78,628

2 Claims. (Cl. 178—7.1)



1. A television system wherein image signals are to be provided from a plurality of television cameras and said image signals are to be selected for transmission, a plurality of television cameras, each camera having scanning means whereby to produce image signals, means presenting an exposed area to be scanned by one of said cameras, said area having a pattern of marks thereon, said marks being successively spaced with respect to a scanning path in said one camera whereby said one camera generates a signal having a characteristic determined by said marks and their successive disposition on said area, filter means connected to the output of said one camera, said filter means selecting and passing substantially only said signal generated by scanning of said marks, switching means, a detector for providing a switch control signal connected to said filter means and to said switching means, phase delay means connected to the output of said one camera, said switching means having a plurality of image signal input connections, an image signal transmission connection from said phase delay means to said switching means, said switching means having an image signal output connection, and an image signal transmission connection from another of said cameras to said second image signal input connection of said switching means, said switching means serving to connect said one camera to said image signal output connection upon interposition of an object to be scanned by said one camera between said one camera and said area having a pattern of marks.

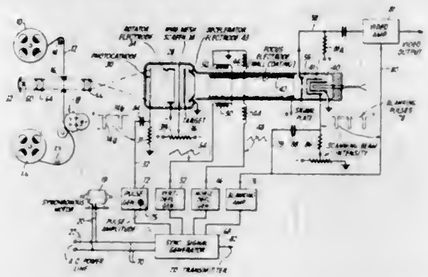
2,611,820

PICKUP TUBE BEAM-INTERRUPTING CIRCUIT

Frank J. Somers, Rockville Centre, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application February 18, 1947, Serial No. 729,213

2 Claims. (Cl. 178—7.2)



1. A system comprising a television camera tube having a photo-sensitive electrode, means for successively projecting images successively recorded on an intermittently moving film on to said photo-sensitive electrode in said television camera tube, a target electrode in said camera tube, means for scanning said target electrode with an electron scanning beam, means for generating a varying voltage, means for establishing a predetermined time relationship between the operation of said generating means and the intermittent movement of said film, and means for applying said voltage variation to the photo-sensitive electrode of said camera tube polarized and timed so that the most positive portions of said voltage variation coincide with the periods during which the said target electrode is being scanned by the said electron scanning beam and also include the periods of intermittent movement of said film, the most positive portions of said voltage variation being effective during the periods of their application to prevent electrons flowing from said photo-sensitive electrode to said target electrode.

2,611,821

COMPENSATED AMPLITUDE DISCRIMINATORY CIRCUITS

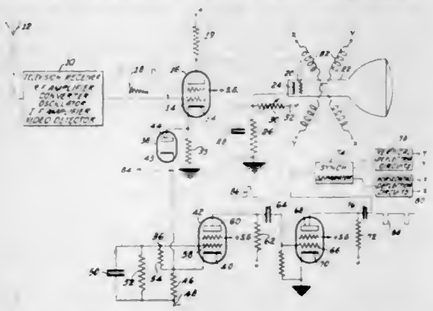
Bethel Edward Denton, Merchantsville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 26, 1949, Serial No. 78,512

1 Claim. (Cl. 178—7.3)

An amplitude discriminatory circuit for communicating a substantially fixed percentage of

the more positive extent of an applied signal and comprising: an input terminal for the applied signal; a resistance connected from said terminal to a first point of fixed potential; an electron discharge tube having at least an anode, a cathode, and an input electrode; an impedance in the anode-cathode circuit of said discharge tube, said impedance being also connected with a second point of fixed potential, a unilateral conduction device having an anode and a cathode, a connection from said unilateral conduction device anode to said input terminal; a connection from said unilateral conduction device cathode to a point on said discharge tube anode-cathode circuit impedance, said connection being such to include a portion of said anode-cathode impedance as a portion of a load circuit for said unilateral conduction device; an integrating cir-



cuit having one terminal thereof connected to said second point of fixed potential, an impedance connected from another terminal of said integrating network to said conduction device cathode, means including a connection from said discharge device input electrode to said last named impedance for controlling the average current through said electron discharge tube in accordance with the value of the integrated voltages across said integrating circuit thereby to alter the current through said discharge tube anode-cathode impedance in accordance with the value of developed integrating circuit voltage such to maintain the amplitude of the signal appearing at said unilateral conduction device cathode at a substantially fixed percentage of the signal applied to said input terminal regardless of amplitude variations therein.

2,611,822

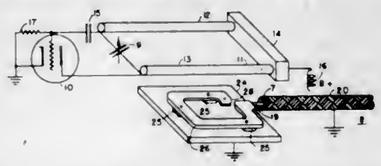
COUPLING DEVICE

William Roderic Bliss, Washington, D. C.

Application February 3, 1945, Serial No. 576,111

12 Claims. (Cl. 178—44)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a low impedance radio frequency transmission line, and a coupling element connected thereto comprising a pair of opposed laterally extended plate conductors, one of said conductors being formed as a flat loop, the other conductor underlying said loop, said conductors having a characteristic radio frequency impedance matching that of the line.

2,611,823

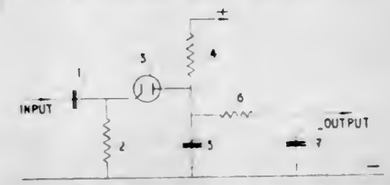
ARRANGEMENT FOR SUPPRESSING IMPULSIVE INTERFERENCE IN THE RECEPTION OF AMPLITUDE MODULATED SIGNALS

Donald Weighton, Cambridge, England, assignor to Pye Limited, Cambridge, England, a British company

Application October 24, 1946, Serial No. 705,406

In Great Britain October 24, 1945

4 Claims. (Cl. 178—44)



1. Circuit arrangement for suppressing impulsive interference of positive sign in the reception of amplitude modulated signals, comprising a diode, a steady source of direct current potential connected to feed a small direct current through the diode, means for feeding the input signal to the cathode of the diode, a resistor connected in the direct current supply lead to the anode of the diode, and a condenser connected between said anode and the negative pole of the direct current source said resistor and condenser having such a time constant that the rate of rise of potential at the anode of the diode cannot exceed a value which is determined by the amplitude and the maximum frequency of the signal which is desired to receive.

2,611,824

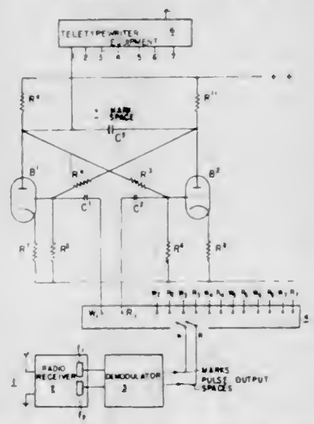
TELEGRAPH RECEIVING APPARATUS

Hendrik C. A. van Duuren, Wassenaar, Netherlands, assignor to Staatsbedrijf Der Posterijen, Telegrafie en Telefonie, The Hague, Netherlands

Application January 15, 1948, Serial No. 2,437

In the Netherlands October 24, 1946

13 Claims. (Cl. 178—88)



6. In telegraph receiving apparatus for receiving code combination signals composed of marking elements and spacing elements, the combination of a receiving relay comprising a first thermionic tube and a second thermionic tube connected in a trigger circuit arrangement having at least two positions of equilibrium, each of said tubes comprising an anode, grid and cathode, a first input terminal operatively connected

with the grid of said first tube and adapted to transmit trigger pulses to said grid in response to certain elements of said code combination signals, a second input terminal operatively connected with the grid of said second tube and adapted to transmit trigger pulses to said grid in response to other elements of said code combination signals, anode circuits for each of said tubes for supplying anode potential thereto, grid connections including a resistor member leading from the anodes of each of said tubes to the grid of the other tube to render said relay stable in said positions, and an inter-anode capacitor connected between the anodes of said tubes.

2,611,825

MULTICHANNEL TRANSMISSION SYSTEM

Donald B. Harris, Cedar Rapids, Iowa

Application April 28, 1948, Serial No. 23,667
6 Claims. (Cl. 179—15)



3. A multi-channel communication system comprising a transmitting terminal including oscillators and modulators associated with each channel adapted to produce for each channel a modulated carrier wave having a frequency differing from the frequency of the carrier wave of each other channel and a receiving terminal having demodulators associated with each channel adapted to demodulate, separately and individually, each of said modulated carriers solely, by multiplying linearly the instantaneous amplitude of the complex received wave by the instantaneous amplitude of a wave having the same frequency and phase as the particular carrier being demodulated, and said demodulators comprising mixer tubes and biasing networks connected together such that the biasing networks cause operation of the mixer tubes in that region of their characteristic where the signal grid-plate transductance is substantially constant with change in signal grid voltage.

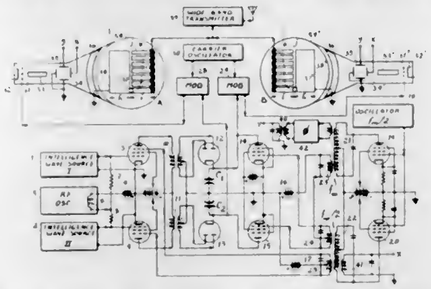
2,611,826

SIMULTANEOUS AMPLITUDE MODULATION AND PHASE MODULATION WITH ECONOMY IN BANDWIDTH

Meguer Kalfaian, Asbury Park, N. J.

Application June 5, 1947, Serial No. 752,601
3 Claims. (Cl. 179—15)

1. The system of simultaneously amplitude and phase modulating a carrier wave by first and second intelligence waves, which comprises means to produce first and second intelligence waves, means to produce a carrier wave in first and second branches, a switching means and means therefor to time divide the carrier in said first and second branches in alternate sequence at a frequency rate essential to convey said intelligence, means to combine outputs of the first and second branches, whereby to obtain the carrier comprising time divided alternate portions in the first and second branches, first and second storage means, means to apply the first intelligence wave upon the first and second storage means, means to operate the first and second storage means on and off alternately by said switching means, at such time-phase that, the first and second storage means store and retain alternate substantially steady state electrical quantities representative of the first intelligence; during output portions of the carrier in said first and second branches, phase modulator or modulators and means therefor to modulate phase angle of the carrier in the first and second branches by said alternate steady state quantities, whereby the carrier wave in each time divided portion of said combined outputs is shifted by an angle representative of the first intelligence in constant state from boundary to boundary, thereby to avoid effective frequency modulation during each successive time division period, third and fourth storage means, means to apply the second intelligence wave upon the third and fourth storage means, means to operate the third and fourth storage means alternately by said switching means in similar manner and in-phase with the aforesaid storage means, whereby to obtain third and fourth substantially steady state electrical quantities representative of the second intelligence, amplitude modulator or modulators and means therefor to modulate amplitude of the carrier by last said quantities in the first and second branches, whereby each time-divided portion of the carrier at said combined output contains simultaneous amplitude modulation by said second intelligence, means to waveshape the amplitude of each successive time division of the carrier wave, so that at the boundaries the carrier amplitude is substantially negligibly low, whereby to avoid appreciable sudden transient effect of the carrier wave due to sudden phase and amplitude change at the boundaries, and the rise and fall at the boundaries are shaped substantially approximating to that of the sine-squared function, thereby to avoid widely expanded multiple pairs of complementary sidebands that are usually associated with steep sided rise and fall of the carrier envelopes, and means to transmit the final modulated carrier wave.



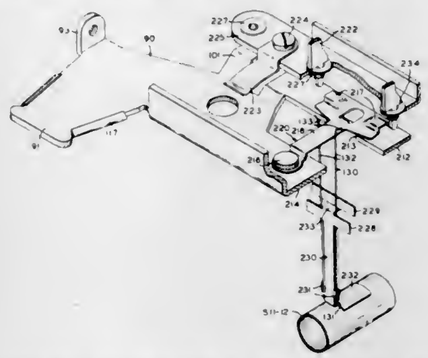
2,611,827

CROSSBAR SWITCH

Richard P. Arthur, Chicago, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, a corporation of Delaware

Application December 3, 1949, Serial No. 131,003
4 Claims. (Cl. 179—27.54)

1. In a crossbar switch employing stackups of contact members, select levers for respective pairs of said stackups, an underlying common actuating plate movable toward the stackups for actuating any desired one subject to the associated select lever having been interposed between the actuating plate and such stackup, each select lever comprising a single member in the general form of an elongated sheet of thin material, each lever having an opening therethrough at one end adapting it to be pivoted on the upper side of the actuating plate and to rotate edgewise in either direction from a position intermediate the stackups of its associated pair to a position operatively below either desired one, said lever including a tab extending downwardly from and then parallel to the main portion of the lever to provide opposed surfaces for guiding the movement thereof, said plate being slotted below the downwardly extending portion of any tab to receive such portion, the said parallelly extending portion of any tab extending beyond the edge of the slot to guidingly underlie the under surface of the actuating plate.

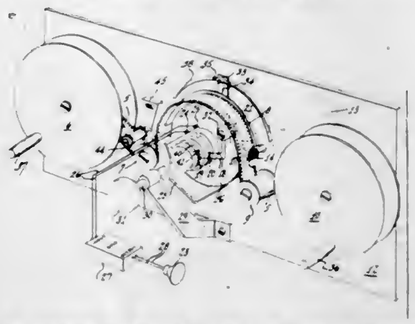


2,611,828

MAGNETIC RECORD EDITING DEVICE

Olin B. Gunby, Los Angeles, Calif., assignor to Radio Corporation of America, a corporation of Delaware

Application May 31, 1950, Serial No. 165,259
12 Claims. (Cl. 179—100.2)



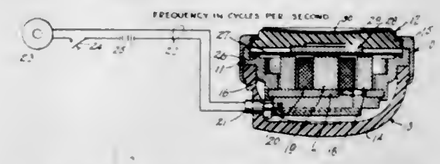
1. A magnetic sound track editor comprising means for supporting a portion of a magnetic film in an arc, a magnetic head, means for rotating said magnetic head whereby said head makes contact with the unsupported portion of said magnetic sound film, a sound reproducer, and means for conducting the output of said head to said reproducer, said means including a pair of rotatable brushes and a pair of slip rings, one of said rings having a portion thereof conducting and another portion thereof non-conducting.

2,611,829

AUDIPHONE

Jarvis M. Hazard, Bellerose, N. Y., assignor to Dictograph Products Company, Inc., New York, N. Y., a corporation of Delaware

Application June 17, 1949, Serial No. 99,657
6 Claims. (Cl. 179—107)



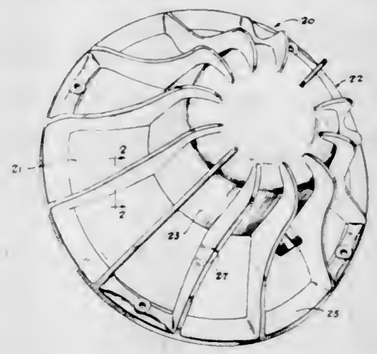
1. In an audiphone receiver, the combination of a contractor adapted to be operatively connected to the skin of the user, a diaphragm carried thereby, magnetic means cooperating with said diaphragm to vibrate the same and support itself on said diaphragm, spacing means between said diaphragm and said magnetic means to provide a flux gap, and electrical means connected to said magnetic means for varying the flux across said gap to vibrate the diaphragm and contactor at audible frequencies, said diaphragm having a compliance varying with the flux to provide a contactor vibration having a response characteristic which has a resonance peak at frequencies below 1,000 cycles per second with constant relatively high voltage input to said electrical means and which has a resonance peak at a higher frequency with constant relatively lower voltage input to said electrical means.

2,611,830

TRANSDUCER

Lawrence M. Heineman, Los Angeles, Calif., assignor to Permoflux Corporation, Chicago, Ill., a corporation of Illinois

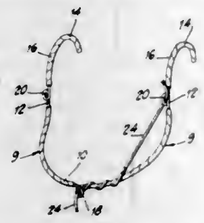
Application February 14, 1950, Serial No. 144,179
7 Claims. (Cl. 179—115.5)



1. In a loud speaker, a frame comprising a cup-shaped housing having rear and side walls and with said side walls defining an open end, means on the inner surfaces of said side walls defining mounting shoulders spaced from the front edge of said side walls and affording forwardly facing mounting surfaces at circumferentially spaced points about said side walls, a mounting ring of a diameter larger than said housing and disposed forwardly of said open end and coaxially with respect to said housing, a plurality of narrow arms fixed at their opposite ends to said ring and said housing and disposed in equally spaced re-

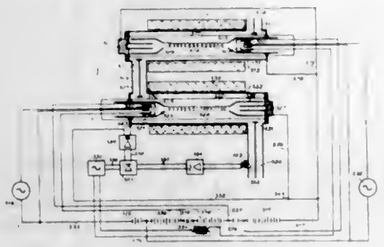
lation about the axis of said ring and housing, magnetic yoke means disposed within said housing and having elements thereof positioned against and secured to the respective mounting shoulders of said housing to locate and support said yoke within said housing, a diaphragm having an outer edge portion fixed to said ring, and means adjacent the central portion of the diaphragm electrically associating said diaphragm with said magnetic yoke.

2,611,831
CORD SUPPORT FOR HEARING AIDS
Lillian D. Cates, Los Angeles, Calif.
Application June 7, 1947, Serial No. 753,393
2 Claims. (Cl. 179—156)



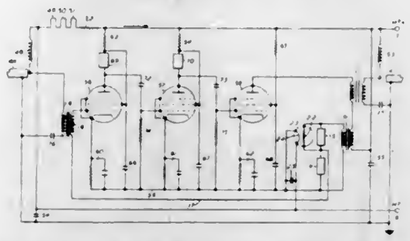
1. An accessory for use with hearing aids comprising a single continuous filamentary member of fixed length shaped to provide a rear portion adapted to encircle the rear part of the user's head and to provide forward portions adapted to hook over the respective ears of the user, said filamentary member having a forward full-turn loop located at the junction of said rear portion and each of said forward portions and a rear full-turn loop located at the rear of said rear portion, said loops forming small eyes through which a hearing aid cord may be threaded to lead sound signals from a point at the back of the head to a hearing aid at the user's affected ear.

2,611,832
ULTRAHIGH FREQUENCY TRAVELING-WAVE TUBE POWER REGULATING SYSTEM
Pierre Marcel Lapostolle, Saint-Germain-en-Laye, France
Application July 26, 1951, Serial No. 238,651
In France August 7, 1950
8 Claims. (Cl. 179—171)



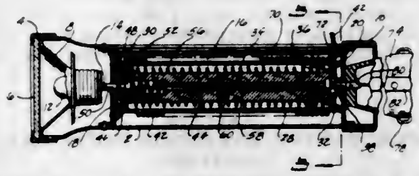
1. An ultra-high frequency amplifier and power regulating system comprising at least one amplifying and regulating stage comprising a traveling wave-tube including at least a cathode for emitting electrons, an electron gun for forming an electron beam, said electron gun including at least one accelerating electrode, a low velocity of propagation transmission line having input and output terminals and adapted to have said electron beam pass therethrough, and an electron collecting electrode, a load circuit connected to said output terminals of said line, a source of ultra-high frequency signals to be amplified, a low frequency alternating voltage source, an amplitude modulator fed on one hand by signals from said source of ultra-high frequency signals and on the other hand by an alternating voltage from said low frequency source and delivering at its output ultra-high frequency amplitude-modulated signals, means for impressing said amplitude-modulated ultra-high frequency signals upon said input terminals of said low velocity of propagation line, and a feedback loop comprising an ultra-high frequency coupling circuit coupled to above-said load circuit, a detector fed from said coupling circuit and delivering at its output low frequency detected signals, a low frequency amplifier having input terminals fed from output of said detector and delivering at its output an amplified low frequency signal voltage, a phase detector having a first and a second pair of input terminals and a pair of output terminals, said first and second pair of input terminals being respectively fed from said amplified low frequency signal voltage and from a reference phase low frequency voltage from above-said low frequency alternating voltage source, said phase detector being constructed so as to deliver at its output terminals a rectified direct-current voltage of polarity depending upon the phase relationship between voltages respectively applied to its first and second pair of input terminals, and means for applying said rectified direct-current voltage to above-said low velocity of propagation transmission line.

2,611,833
ELECTRIC AMPLIFIER WITH NEGATIVE FEEDBACK
Alleman Holly Roche, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 7, 1947, Serial No. 727,208
In Great Britain April 30, 1946
1 Claim. (Cl. 179—171)



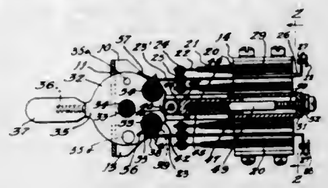
An electric wave amplifier comprising a forward amplifying path including a plurality of thermionic valves each having an indirectly heated cathode, a power source therefor and a separate bias network coupled to said cathode, each of said cathodes being connected through its associated bias network in parallel and to said source, a negative feedback path including an impedance, and an indirectly-heated thermistor having a heating coil serially connected between all of said cathodes through said bias network and said source for passing the cathode current of said valves, said thermistor being connected across at least a portion of said negative feedback impedance for compensating for change in frequency characteristic due to aging of said valves.

2,611,834
COMBINATION SPOT AND TROUBLE LIGHT
Cal Simons, Detroit, Mich.
Application April 13, 1949, Serial No. 87,225
2 Claims. (Cl. 191—12.4)



1. In a combination spot and trouble light of the class described, comprising: an outer casing containing a torsion spring loaded electrical circuit wire drum journalled in an insulator and a conductor plate in said casing, adapted to pay out said electrical circuit wire and having a selective pawl and ratchet means for limiting withdrawal of said electrical circuit wire, a light bulb connected in circuit with said electrical circuit wire, and said light bulb mounted at one end of said outer casing and said casing having at its other end a closure cap adapted to receive and maintain when not in use a cigarette lighter receptacle contact plug adapted to be removed and inserted into the receptacle of the cigarette lighter socket in an automobile for power, said receptacle contact plug having suitable contacts in circuit with said electrical circuit wire for the conduction of current for operation of the filament in said light bulb.

2,611,835
LEVER SWITCH
Donald P. Mossman, Sr., Chicago, Ill.
Application June 6, 1947, Serial No. 752,936
3 Claims. (Cl. 200—1)



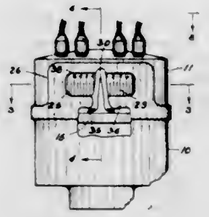
1. A switch of the character described comprising a supporting frame, a plurality of contact carrying springs mounted thereon in spaced relation, an operating member pivoted in said frame for movement transversely of said springs, and having a handle, at least one of said springs having its free end extended beyond other springs alongside the path of movement of said operating member, a spring engaging member pivoted on said operating member, and said extended spring having a portion thereof in the path of movement of said spring engaging member bent to extend toward the pivotal axis of said operating member and positioned to hook partially over the spring engaging member and cause greater movement of the spring end as the operating member moves the spring engaging member toward the spring than the movement of the spring engaging member, and back up springs mounted on opposite sides of the non-extended springs, said back up springs being spaced from the non-extended springs at their mounting points and having their free ends in engagement with the non-extended springs at a distance from their mounting.

2,611,836
DENTAL ENGINE CONTROL
Howard E. Crawford, Toledo, Ohio, assignor to Wm. O. Ballard, Toledo, Ohio
Application September 27, 1949, Serial No. 118,160
9 Claims. (Cl. 200—18)



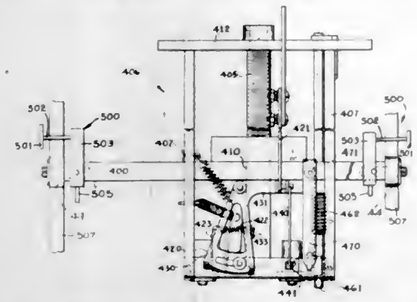
8. Mechanism for operating a plurality of electric switches in a predetermined program for controlling interrelated functions of a dental engine, said mechanism comprising a base providing an axial support, a member rotatably mounted on said support, a terminal on said member providing a common contact for a plurality of said switches, means for rotating said member step-by-step from a starting position to progressively operate said switches, a frame rotatable on said support coaxially with said member, a connection between said frame and the member rotating means for control thereof by rotation of the frame, an axially shiftable pedal on said frame, a latch controlled by said pedal for selectively holding the rotated member away from its starting position, and means for returning said member to its starting position upon release of said latch.

2,611,837
TIMING ANGLE INDICATOR FOR AUTOMOTIVE ENGINE DISTRIBUTORS
Maxwell J. Zirin, Long Island City, N. Y.
Application July 17, 1951, Serial No. 237,113
10 Claims. (Cl. 200—19)



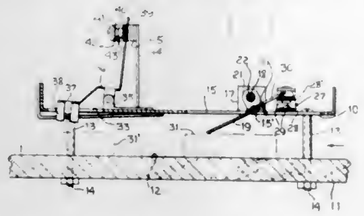
1. In an internal combustion engine ignition distributor, mounted within a case, with a cap removably mounted on the case, a rotatable shaft supported within the case, a plate surrounding the shaft, and a set of breaker points supported by said plate, and means mounted on said shaft, controlling one of the breaker points, the combination of a transparent window mounted in said cap, means attached to the breaker point support plate indicating the angular position of the plate relative to the cap, and means formed on said window, indicating the angular movement of said indicating means, while the distributor cap is closed.

2,611,838
HIGH VOLTAGE CIRCUIT BREAKER
Elmer Goessel, Philadelphia, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 27, 1947, Serial No. 757,356
5 Claims. (Cl. 200—50)



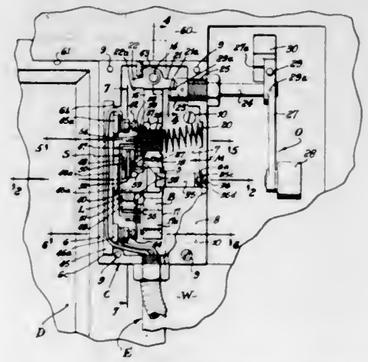
1. In an electrical switchgear assembly, a stationary housing, a removable circuit breaker having a connected position within said housing in which said circuit breaker is connected to an electrical circuit and a disconnected position within said housing in which said circuit breaker is disconnected from the electrical circuit; opposite side walls and a rear wall for said housing, an arm extending between said side walls, members at said side walls for releasably engaging and positioning the ends of said arm, said arm including a threaded opening intermediate its ends, a racking screw mechanism connected to and movable with said circuit breaker, the threads of the screw meshing with the threads in the opening for permitting rotation and transverse movement of said screw with respect to said arm while said arm is held from movement by said members, said circuit breaker moving with said screw transversely with respect to said arm from connected position at said rear wall of said housing to disconnected position, and movement from disconnected position toward said rear wall to connected position.

2,611,839
ANTICHEATING DEVICE
Jerry C. Koci, Chicago, Ill., assignor to Chicago Coin Machine Company, Chicago, Ill., a corporation of Illinois
Application October 24, 1950, Serial No. 191,742
2 Claims. (Cl. 200—52)



1. An anti-cheat device for game apparatuses in which a playing piece is propelled over a playing surface of a game board comprising a mounting structure arranged over and in spaced relation to the playing surface, a switch including confronting spring switch fingers arranged on said structure, a gate, means supporting the gate from said structure for pivotal movement relative to the playing surface and having a portion normally disposed in the path of a playing piece over the surface, said gate having a finger adapted to engage one of the spring fingers of said switch to close said switch, said gate being effective to move said gate finger to close said switch by a playing piece moving fast over said playing surface, said gate not being effective to move said gate finger to close said switch by a playing piece moving slowly over the playing surface.

2,611,840
INTERLOCKING ELEVATOR DOOR LATCH SWITCH
Gael S. Rogers, Los Angeles, Calif., assignor to Kimball Elevator Co., Ltd., Los Angeles, Calif., a corporation of California
Application September 18, 1948, Serial No. 49,946
4 Claims. (Cl. 200—55)

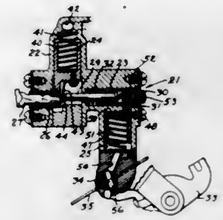


4. In a door latch mechanism: a latch member adapted for mounting on the door; a keeper member movable into and out of latching position and adapted to engage said latch member when the door is closed and said latch member is in latching position; a pair of stationary spaced contacts adapted to be connected respectively with opposite sides of an electric circuit; a conductor carried by said latch member, so positioned as to be intermediate said contacts when said latch member is in latching position, said latch member being of electrically conducting material; said conductor comprising a pair of insulators respectively on opposite sides of said latch member, a pair of conducting elements respectively on said insulators, a conducting bar extending through said latch member electrically joining said elements and securing said elements and said insulators in assembled relation on said latch member, an insulating sleeve about said bar, extending through said latch member and into recesses respectively in said insulators; and a pair of contactors carried by said keeper member for respectively engaging said elements and said contacts when said keeper member and said latch member are in latching relation for electrically connecting said contacts.

2,611,841
ENGINE SWITCH WITH DETENT
Leonard D. Boyce, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application May 24, 1948, Serial No. 28,897
9 Claims. (Cl. 200—59)

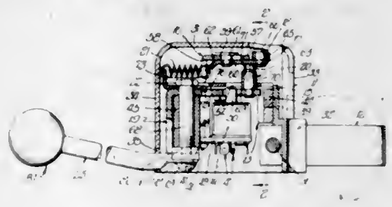
1. A switch device for use with the induction conduit of an internal combustion engine comprising a pair of switch points, one being movable, an actuating plunger for said movable

point, a locking detent for said plunger, a fluid pressure responsive element operatively connected to said detent, a suction connection for



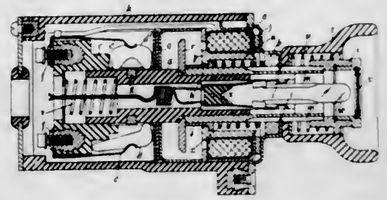
exposing said element to intake conduit suction, a valve in said connection, and means to operate said valve to control the shifting of said detent.

2,611,842
TURN INDICATOR
Malcolm T. Lybrook and Harold H. Clayton, Logansport, Ind., assignors to Essex Wire Corporation, Logansport, Ind., a corporation of Michigan
Application January 9, 1950, Serial No. 137,599
8 Claims. (Cl. 200—59)



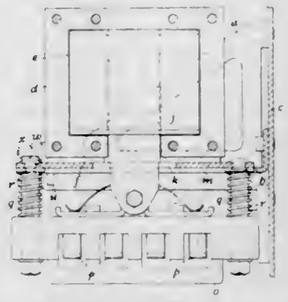
1. A mechanical turn indicator apparatus for use in automotive vehicles or the like, comprising in combination, an outer housing mounting said apparatus, a mounting ring extending through said housing for connecting the apparatus to the vehicle's steering column, a unitary inner frame insertably mounted within said housing, an operating lever pivotally connected at one end to said inner frame and extending outwardly of said housing for arcuate manipulation, a cam roller arm mounted to the inner end of said lever and arcuately movable therewith, said arm having an oblong opening formed therein, a directional signal switch positioned below said arm and having a rectilinearly movable operating post extending into the oblong opening in said arm whereby arcuate movement of said arm causes responsive rectilinear motion of said post to actuate said switch, a cam roller rotatably mounted at the inner end of said arm and extending upwardly therefrom, a cam plate slidably mounted above said arm and having a cam opening with three positional detents formed therein, said cam roller extending into said cam opening for rolling engagement with said positional detents thereof, and a spring member biasing said cam plate toward said roller thereby to resiliently engage the same with said cam opening's positional detents whereby arcuate manipulation of said lever causes said roller to move along said cam opening and rectilinearly move said cam plate against the bias of said spring with the successive engagement of said roller with each of the positional detents serving resiliently to hold said switch in a preselected operating condition.

2,611,843
COMBINED MAGNETIC AND MANUAL SWITCH
William George Bourne, Acton, London, England, assignor to Rotax Limited, London, England
Application June 7, 1949, Serial No. 97,585
In Great Britain June 12, 1948
3 Claims. (Cl. 200—87)



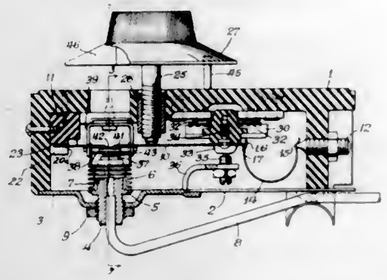
1. An electric switch of the push-pull type, comprising in combination an axially slidable contact-actuating member, an annular contact piece on said member, a stationary annular electromagnet surrounding said member and having a pair of pole pieces of the same polarity arranged in axially spaced relationship around said member, an armature secured on said member and movably located between said pole pieces so that the latter can serve by magnetic interaction with said armature to retain said member in two different positions, and spring-loaded contact pieces shaped and arranged so that in each of said positions of said member at least some of said spring-loaded contact pieces are bridged by said annular contact piece.

2,611,844
ELECTROMAGNETICALLY OPERABLE SWITCH
William George Bourne, Acton, London, England, assignor to Rotax Limited, London, England
Application May 22, 1950, Serial No. 163,372
In Great Britain May 27, 1949
1 Claim. (Cl. 200—87)



Switch mechanism comprising in combination a supporting bracket having a pair of side members and an open base portion, an electromagnet having an armature, a base piece carried by said electromagnet and having an opening to allow passage of said armature therethrough, means detachably securing said base piece to said base portion and consisting in part of at least one stud extending from one side of said base portion, said base piece having a slot in engagement with said stud, at least one contact carried by said armature and movable by said electromagnet, at least one stationary contact with which the movable contact can co-operate, and means detachably securing the stationary contact to said base portion and consisting in part of a guide on said base portion and a drawer like slide engaging said guide.

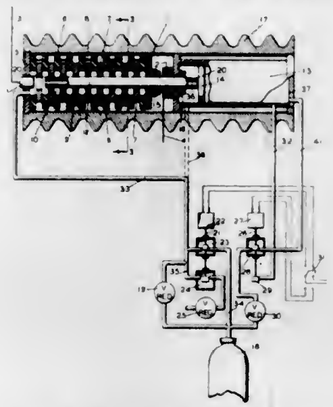
2,611,845
TEMPERATURE CONTROL DEVICE
Nicholas Miller, Berwyn, Ill., assignor to Hotpoint Inc., a corporation of New York
Application March 31, 1951, Serial No. 218,605
8 Claims. (Cl. 200—140)



1. In a thermostat, a casing, a pivot block therein, said pivot block having a base portion, mutually spaced wall structures extending therefrom, said base portion having a sharply defined ridge extending between said wall structures in alignment with common end surfaces thereof, a flat, flexible, blade-like member supported at one end on said ridge and having sidewardly extending portions engaging said end surfaces, means for resiliently urging said blade portions into engagement with said surfaces, contact means carried at the opposite end of said blade, cooperating contact means carried by said casing, an adjustment screw extending into said casing and engageable with a surface of said blade to exert pressure thereon in a direction tending urging the blade away from said pivot block base, a temperature-sensitive system including a member disposed in said casing at the opposite side of said blade and having wall means movable toward or away from said blade according to the change in temperature of said system, actuator means interposed between said blade and said movable wall means intermediate said adjustment screw and said pivot block, means mounting said actuator means for movement in the directions of movement of said wall means, and means for limiting movement of said actuator away from said blade to an ultimate position at which said actuator maintains the said blade on said pivot block edge regardless of extreme withdrawal of said wall means relative to said blade, whereby said adjustment screw may be used under any temperature condition to flex the blade about said actuator means for establishing a desired relationship between the blade contacts and the casing contacts.

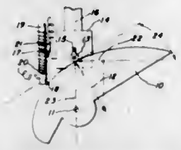
2,611,846
CIRCUIT BREAKER
Lindsay M. Applegate, Oswego, Oreg., assignor to the United States of America as represented by the Secretary of the Interior
Application March 7, 1949, Serial No. 80,051
9 Claims. (Cl. 200—144)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

9. In a high-voltage circuit breaker the combination of a cylindrical chamber, concentric separable contacts therein, means for opening and closing said contacts, and means for maintaining gas at high pressure in said chamber, said chamber being made of concentric alternate conducting and insulating annuli held tightly together by attachments to said insulating annuli, said attachments being distributed and spaced to hold all conducting annuli tightly in compression,



and to have attachments holding successive conducting annuli insulated from each other.

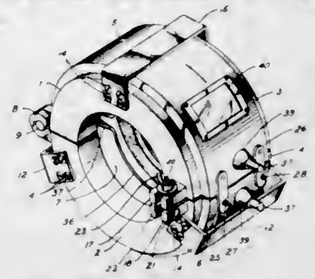
2,611,847
CAM-ACTUATED DEVICE
Benjamin B. Scott, Schenectady, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application December 14, 1950, Serial No. 200,859
4 Claims. (Cl. 201—48)



1. In a cam-actuated device for continuously and accurately varying resistance to be included in an electrical circuit, a fixed elongated linear resistor, an elongated guide having opposite side walls paralleling the resistor and provided with parallel grooves one in each of said side walls, a carriage having antifriction rollers disposed in said grooves and spaced to closely engage said side walls, a brush mounted on said carriage and in contact with said resistor, an antifriction cam follower mounted on the carriage intermediate of said rollers, a cam rotatable about an axis normal to the longitudinal axis of said guide and adapted to engage said follower, whereby the brush may be moved without lost motion across the entire length of the resistor in a manner exactly reproducing a motion determined by the contour of said cam.

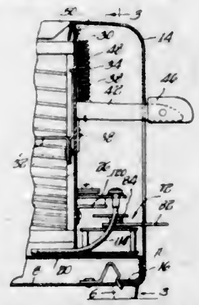
2,611,848
RADIANT HEAT WELDING EQUIPMENT
Oliver Ross Smith, Fort Worth, Tex.
Application May 25, 1950, Serial No. 164,155
7 Claims. (Cl. 219—6)

7. Welding equipment for use in welding pipes or the like comprising a cylindrical casing adapted to be positioned about the abutting ends of two sections of pipe supported in endwise abutting relation, said casing having semi-circular elements forming side walls and engageable about said pipe sections to support the casing on the pipe sections and semi-cylindrical elements forming a cylindrical wall, interengageable means connecting said cylindrical wall to said side wall for circumferential movement about said sections,



and substantially semi-circular electrodes carried by said cylindrical wall in radially spaced relation to said abutting ends.

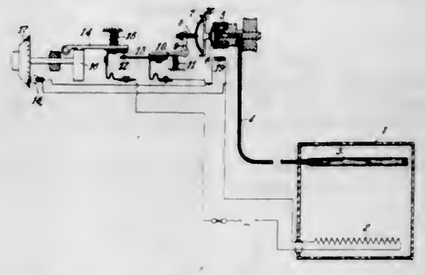
2,611,849
TOASTER TIMER
James J. Gough, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application October 4, 1947, Serial No. 777,915
8 Claims. (Cl. 219—19)



6. In a toaster, control means urged in a direction to render said toaster ineffective to perform a toasting operation and operable in an opposite direction to render the toaster effective to perform a toasting operation, a latch keeper carried by said control means, a latch bar pivotally mounted intermediate its ends, said latch bar having at one end a latching projection for engaging said keeper releasably to retain said control means in a position for rendering the toaster effective to perform a toasting operation, a bimetal strip fixed to the other end of said latch bar and deflectible on change in toaster temperature, a constant speed timer including a cam rotated thereby in a plane transverse to the plane of the bimetal strip, said cam having a nonplanar cam surface of varying radius to engage the strip as the cam is rotated by the timer and the strip is deflected in response to change in the toaster temperature whereby to pivot said latch bar to latch-releasing position when the bimetal strip engages the cam.

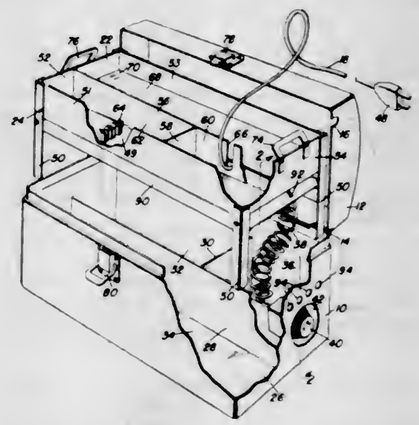
2,611,850
THERMOSTATIC CONTROL SYSTEM FOR OVENS
Gordon Herbert Francis Walton, London, England, assignor to "Diamond H" Switches Limited, London, England
Application April 26, 1949, Serial No. 89,751
In Great Britain April 30, 1948
6 Claims. (Cl. 219—20)

1. In a control system for a heater of the type having a main heater, a thermostatic unit employing an expansible fluid medium responsive to heat imparted by the heater to produce controlling movements and having control means responsive to such movements to regulate the heater, a regulator comprising a temperature responsive fluid filled expansible container operatively connected to the control means, a subsidiary heater disposed adjacent to said expansible container to impart heat thereto and controlled by said control means so that its heat



output is changed with that of the main heater, and compensating means associated with the expansible container to neutralize the effect of the rise and fall of ambient temperature, the said compensating means being constructed and arranged so that while compensating for changes in the mean expansible container temperature it remains unaffected to any significant extent by temperature fluctuations produced by the heating of the subsidiary heater, whereby the overall sensitivity of the control is increased.

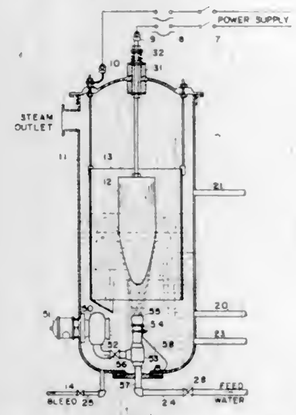
2,611,851
HEATED LUNCH PAIL
Frank H. Lott, Lebanon, Oreg.
Application July 27, 1950, Serial No. 176,201
2 Claims. (Cl. 219—35)



1. In a heated lunch box to retain food warm, a casing having a closure operatively connected therewith, a tray removably disposed in said casing, partitions in said casing to separate said casing into compartments to accommodate various articles of food and confections and implements, said tray being located above said compartments and constituting a lid for said compartments, means to heat the interior of said casing, air discharge openings located below said tray and in said casing, a plate carried by said tray and disposed below said openings to thereby form a heat deflector, said tray having legs sup-

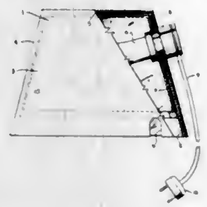
porting said tray above said compartments and to support said tray at a place remote from said casing, said heating means being secured to said tray and located above said air openings when said tray is disposed in said casing and located above said heat deflector, a heat control device secured to said casing, said deflector having an aperture, and an electric wire extending from said heat control device through said aperture and connected to said heating means.

2,611,852
ELECTRIC BOILER
Milton Eaton, Shawinigan Falls, Quebec, Canada, assignor to The Shawinigan Water and Power Company, Montreal, Quebec, Canada, a corporation of Quebec.
Application August 25, 1950, Serial No. 181,530
16 Claims. (Cl. 219—40)



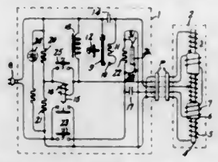
1. An apparatus for improving the performance of electric boilers of the type having at least one electrode and in which the load is regulated by changing the water level on the electrodes, said electrodes being insulated from the boiler shell and normally being at least partially submerged in the boiler water, comprising pumping means for taking water from the boiler and spouting it up under each electrode with sufficient volume to cover the lower ends of the electrodes and with sufficient velocity to climb at least part way up their sides.

2,611,853
BATTERY HEATER
Wilmer Kerby, Ottawa, Ontario, Canada
Application February 27, 1950, Serial No. 146,471
3 Claims. (Cl. 219—45)



1. The combination with an electric storage battery connected in circuit of means for keeping the battery warm in cold weather comprising an electric heating element with a plug-in type connection for attachment to the usual 110 volt line service; a box-like hood in which said heating element is mounted having an open bottom removably restible on the top edge of the battery wall in close-fitting engagement, the rim of said open bottom having a spaced pair of battery cable-passing notches; and a heat-insulating and heat-reflecting lining in said hood, ending short of the open bottom of the hood by a distance greater than the distance the posts and cable terminals of the battery rise above the top edge of the wall thereof.

2,611,854
CONTROL CIRCUIT WITH TEMPERATURE AND/OR HUMIDITY COMPENSATION
Jacob W. McNairy, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application December 20, 1949, Serial No. 134,002
17 Claims. (Cl. 219—46)

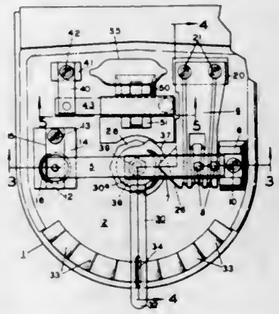


1. In a control circuit for electric blankets and the like having a heater conductor and a signal conductor coextensive therewith and separated therefrom by a continuous layer of a normally insulating material which upon increase in temperature to a known threshold level exhibits a relatively gradual decrease in impedance and above said level drops relatively sharply, there being a range of temperature commencing before said level at which the impedance is such that the layer will conduct significant current at domestic potentials: the combination of an electric circuit for said heater conductor for connecting it across a source of electrical energy, a control switch for said circuit, said switch being biased to open circuit position, electromagnetic means responsive to voltage within a relatively narrow range for closing said switch, electric circuit means comprising an impedance bridge across which said electromagnetic means is connected, two legs of said bridge comprising a pair of resistors serially connected and the other two legs comprising in series connection a reactance means, said signal conductor and a capacitor, said bridge being tuned to provide voltage across said electromagnetic means within said switch closing range but responsive to the loading effect of conduction through said layer to reduce the voltage below said range, and a resistor of known negative temperature resistance coefficient connected in said electric circuit means, said resistor being physically positioned to be sensible to the heating effect of the energy input to said blanket so that the lowering resistance of said resistor upon temperature increase thereof will offset the gradually declining impedance of said layer and thereby maintain the voltage across said bridge within the switch closing range until the temperature of the layer increases beyond the threshold level.

2,611,855
ELECTRIC BLANKET CONTROL
Charles Roger Turner, Enfield, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 2, 1947, Serial No. 745,383
12 Claims. (Cl. 219—46)

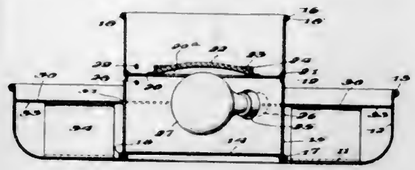
1. A device for controlling an electrically-heated bed cover or the like so as to compensate

for the various factors which affect the user's comfort, comprising an adjustable thermostatic switch under control of the user during use, adapted to be connected in circuit with the heating means of said cover and subject to the temperature of the ambient air, the adjustment of said switch determining the air temperature at which the switch will initiate energization of said cover, an electric heating element adjustably mounted in cooperative association with said switch to influence the same and also adapted to be connected in circuit with the cover heating



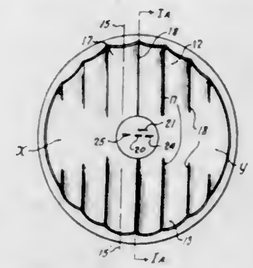
means, said switch and the associated heating element serving cooperatively to vary the energy input to said cover in inverse relation to the ambient air temperature, and adjustable means under control of the user during use for varying the position of said heating element to thus vary the rate of automatic variation of said energy input by said switch and its associated heating element, so as to meet the requirements for constant comfort of the user as affected by body heat loss, thermal insulation of a bed, and the possible use of additional covering.

2,611,856
ILLUMINATED SUPPORT WITH LIQUID-HOLDING PAN
John E. Fredin, Los Angeles, Calif.
Application August 13, 1947, Serial No. 768,401
3 Claims. (Cl. 240—2)



1. An ornamental stand comprising a liquid-holding pan member formed with a central raised portion, an open-ended sleeve member having one end removably fitting the edges of said central raised portion and extending upwardly therefrom in spaced relation to the walls of said pan member, said sleeve member forming a liquid tight joint with said pan member to divide the pan member into an annular liquid holding compartment and a central compartment, means at the upper portion of said sleeve member providing an article holding member, a partition mounted in said sleeve member below said article holding member and having a light transmitting portion, a drainage opening in said sleeve member above said partition for draining liquid collected thereabove into said pan member, and an illuminating means mounted in said sleeve member below said partition.

2,611,857
COMBINED VEHICLE HEADLIGHTING AND TURN ILLUMINATING SYSTEM
Guy H. Coulter, Detroit, Mich., assignor, by mesne assignments, to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Original application May 8, 1947, Serial No. 746,726. Divided and this application August 11, 1948, Serial No. 43,676
3 Claims. (Cl. 240—41.25)

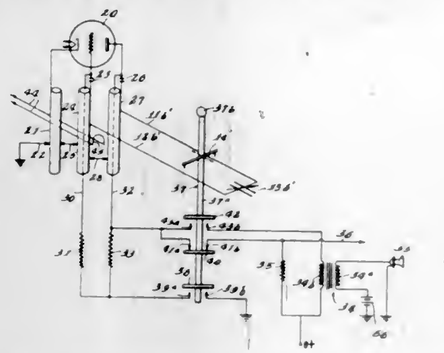


1. In a combined head-lighting and vehicle turn illuminating system; a pair of headlamps adapted to project distinctive light beam patterns by the simultaneous energization of similarly positioned filaments in said pair of headlamps, each of said headlamps comprising a parabolic reflector; a main filament located substantially at the focus of said parabola for producing a main driving beam; a separately operable passing beam filament located above and laterally offset to the left to produce a passing beam directed toward the right and depressed downwardly from said main beam; a pair of separately energizable auxiliary filaments for producing right-hand turn and left-hand turn beams of light conjointly with said main or passing beams, said auxiliary filaments being horizontally arranged, one on the right-hand side and one on the left-hand side of said main filament, each located in the main horizontal plane of the headlamp passing through the focus of the parabola; and optical means formed on the reflector including vertically arranged and transversely curved flutes, the transverse curvature of the flutes flattening out at the central section of the reflector to conform substantially to its parabola without forming terminal intersection surfaces and increasing therefrom so that the central portion of the flutes is located below the reflector parabola at the top and bottom portions for spreading laterally and directing downwardly certain rays of light in the beam pattern produced by each of said filaments.

2,611,858
TUNING APPARATUS FOR ELECTRONIC EQUIPMENT
Robert E. Samuelson, Chicago, Ill., assignor to The Hallicrafters Co., a corporation of Illinois
Application April 22, 1948, Serial No. 22,545
8 Claims. (Cl. 250—13)

8. A transceiver of the character described, comprising: a tube adapted to oscillate, said tube having cathode, grid and anode elements; circuit connections for providing operating voltages; a first resonant circuit comprising a transmission line section connected to said grid and anode elements; a second resonant circuit coupled to said first resonant circuit for controlling the operating frequency of said transceiver, said second resonant circuit comprising a parallel conductor transmission line section having a length

of the order of three-eighths wavelength of a given frequency; a variable reactive load terminating said second section for tuning said section when said transceiver is in receiving condition, said load comprising a variable capacitance adapted to have a capacitive partial-reactance of the order of the characteristic impedance of said second



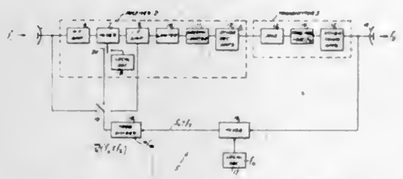
section; and switching means operated by a single control for switching said transceiver between transmitting and receiving conditions, said switching means including a device for shorting said second section to change the effective length thereof to a quarter wavelength of said given frequency when said transceiver is in transmitting condition.

2,611,859

REPEATER FOR FREQUENCY MODULATED WAVES

Robert S. Bailey, Phoenix, Ariz., and Martin Silver, Fairlawn, N. J., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application January 7, 1950, Serial No. 137,344
6 Claims. (Cl. 250—15)



3. A translator for translating frequency modulated waves of a given center frequency into frequency modulated waves of another center frequency, and means for feeding back energy of said frequency modulated wave of said other frequency to the input of said translator comprising means for changing the center frequency of the energy fed back, and means for varying in said energy the frequency deviation due to modulation.

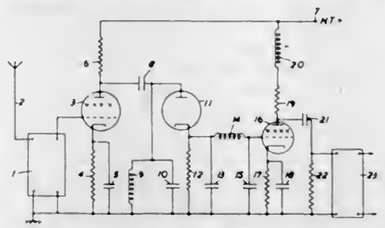
2,611,860

SINGLE SIDE BAND RADIO SIGNALING

William Spencer Percival, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a British company

Application August 27, 1949, Serial No. 112,657
In Great Britain September 4, 1948
1 Claim. (Cl. 250—20)

A receiver for use in a system of asymmetric side band signalling, including a signal channel, a detector in said channel for said asymmetric side band signals, attenuating means connected in said signal channel prior to said detector for attenuating frequencies corresponding to higher frequency modulating signals relatively to frequencies corresponding to lower frequency modulating signals, whereby the attenuation is progressively greater the higher the modulation frequency with reduced distortion of the detected



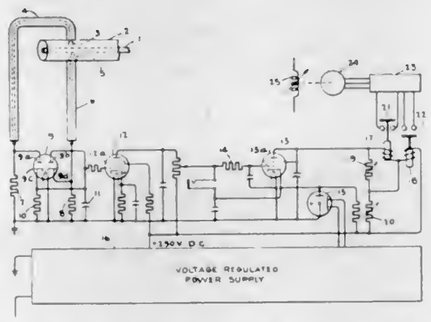
signals, and means connected in said signal channel subsequent to said detector for boosting higher frequency components of the detected signals relatively to lower frequency components, whereby the boosting is progressively greater the higher the frequency of the detected signals with at least part correction for the attenuation effected by said attenuating means.

2,611,861

AMPLITUDE COMPARISON CIRCUIT

Paul D. Heath, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

Application November 26, 1948, Serial No. 62,174
3 Claims. (Cl. 250—27)



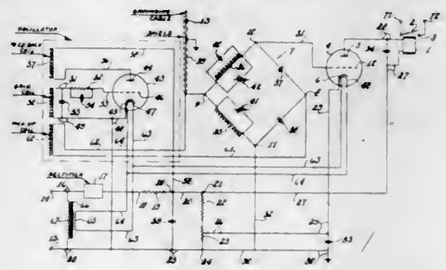
1. An amplitude comparison circuit for a high frequency electrical transmission circuit comprising, a transmission line having an elongated hollow conductor, means including means within said hollow conductor for deriving a first signal voltage responsive to the amplitude of a first characteristic of said electrical circuit, a first concentric conductor transmission line for transmitting said first signal voltage, a first impedance substantially equal to the characteristic impedance of said first concentric conductor line for terminating said first concentric conductor line, means including means within said hollow conductor for deriving a second signal voltage responsive to the amplitude of a second characteristic of said electrical circuit, a second concentric conductor transmission line for transmitting said second signal voltage, a second impedance substantially equal to the characteristic impedance of said second concentric conductor line for terminating said second concentric conductor line, a common resistor connected for energization by both said signal voltages, and a pair of oppositely connected rectifier devices in circuit respectively with said two signal deriving means whereby the potential drops across said resistor due to the unidirectional currents produced therein by said two signal voltages are of opposite polarity, the net potential drop across said resistor being responsive to the relative amplitudes of said two characteristics of said electrical circuit.

2,611,862

ELECTRONIC GROUNDING APPARATUS

Roy A. Riddle, Summit, N. J., and Theodore J. Mesh, Easthampton, Mass.; Pearl Kilpatrick Riddle, administratrix of said Roy A. Riddle, deceased, and said Theodore J. Mesh assignors to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

Application June 15, 1950, Serial No. 168,282
2 Claims. (Cl. 250—27)



1. An electronic grounding apparatus for use with tank trucks and the like, comprising, a bridge circuit having four arms with an impedance in each arm, means for impressing on the input terminals of said circuit a radio frequency voltage of low amplitude, a grounding cable connected at one end to one input terminal of said circuit and adapted for connection at its other end to the tank of the truck, one output terminal of said circuit being grounded, the impedance in that arm of said circuit which extends between the last-named input terminal and the last-named output terminal including an inductance coil of low resistance to conduct static charge from said tank through said inductance from said cable to the ground, an electrical operator to be energized when said grounding cable is electrically connected to the tank, an electronic tube controlling said operator, a circuit including said operator and the plate and cathode of said tube and adapted for connection to a source of electricity, a connection from the other output terminal of the bridge circuit to the grid of said tube, said impedances in the bridge circuit being balanced when said cable is not connected to the truck and there being then no voltage at the output terminals of said circuit, said tube being normally nonconducting and rendered conducting when the balance in the bridge circuit is upset by the connection of said cable to the tank truck and the resulting inclusion in said circuit in parallel with said inductance of the capacity between the tank and ground, whereby the operator is energized.

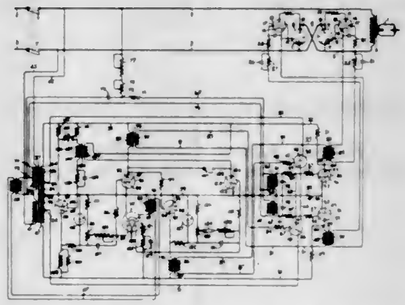
2,611,863

ELECTRIC VALVE CONTROL CIRCUITS

Maurice E. Bivens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 10, 1947, Serial No. 753,672
12 Claims. (Cl. 250—27)

1. Apparatus comprising an alternating current supply circuit, an electric valve having an anode, a cathode and a control element, means for energizing the anode-cathode circuit of said electric valve with alternating current from said supply circuit, a control element circuit for applying to said control element of said electric valve a negative bias voltage and a control voltage, means interposed in circuit with said control element for selectively and automatically impressing on said control element that one of said bias and control voltages which is the more negative, said means including a resistor and a second electric valve having an anode, a cathode and a control element, said resistor and said second electric valve being connected to one another and respectively to said control and bias voltages to form two branches of said control element circuit which are connected in parallel with one another between the control element and cathode of said



first mentioned electric valve, one terminal of each of said control and bias voltages being directly connected to one another and to the cathode of said first mentioned electric valve and the other terminal of each of said control and bias voltages being connected to one another and to the control element of said first mentioned electric valve through said resistor and the anode-cathode circuit of said second electric valve respectively with the anode of said second electric valve being directed towards said resistor and said control element of said first mentioned electric valve, a control element circuit for said second electric valve, and means for applying a control voltage in said control element circuit of said second electric valve which renders said second electric valve nonconducting and thereby disconnects said bias voltage from the control element circuit of said first mentioned electric valve.

2,611,864

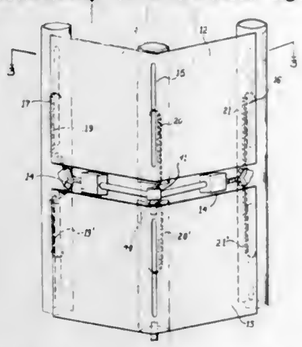
SLOTTED WINGED CYLINDRICAL ANTENNA

Andrew Alford, Cambridge, Mass.

Application June 14, 1948, Serial No. 32,752
12 Claims. (Cl. 250—33)

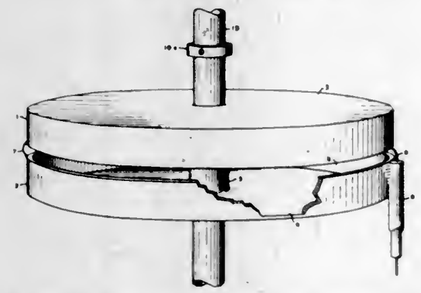
1. An ultra high frequency antenna comprising a main unit formed as a conducting cylinder having a slot extending longitudinally thereof with conducting wings extending from the outer surface of the cylinder outwards at each side of said slot, the outer edges of said conducting wings running substantially parallel to said slot and adapted to form Huygens' radiation sources when said slot is energized by high frequency waves, a pair of auxiliary conducting units parallel to the axis of the slotted cylinder positioned near but beyond the ends of said wings in positions equal to the effective electrical spacing of the Huygens' sources from said slot, and means for feeding said auxiliary conducting units for producing fields of substantially the same amplitudes in reversed phase as said Huygens' radia-

tion sources, whereby a composite radiation pattern substantially of a cardioid figure with a



null in the direction of diametrical symmetry of the antenna will be obtained.

2,611,865
TRANSVERSELY GAPPED CYLINDRICAL ANTENNA
Andrew Alford, Cambridge, Mass.
Application June 19, 1946, Serial No. 677,653
15 Claims. (Cl. 250—33)



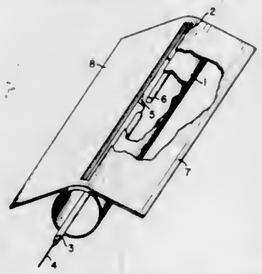
1. In an antenna, a hollow conducting body having continuous side walls, and end walls positioned opposed to one another at opposite ends of the hollow body, said side walls having a linear discontinuity extending around the side walls and spaced from the end walls, a conducting element within the hollow body, extending between the end walls and electrically connected thereto, means having a flat conducting surface on which the hollow conducting body at one of its ends is mounted, said linear discontinuity forming an air gap with the conductive material adjacent both sides of the gap forming a transmission line about the hollow body, and a feeder connected to the body with one terminal thereof connected to one side of the transmission line and the other terminal to the other side.

2,611,866
CYLINDRICAL ANTENNA
Andrew Alford, Cambridge, Mass.
Application June 19, 1946, Serial No. 677,654
20 Claims. (Cl. 250—33)



1. An antenna in combination with means providing a flat conductive surface comprising a hollow conductive body having a peripheral rim spaced closely to the conductive surface forming an air gap between the conductive surface and the peripheral rim in which the material in the peripheral rim adjacent the air gap forms one side of a transmission line and the material in the conductive surface opposite said rim forms the other side of the transmission line, said air gap having a width not substantially greater than .045λ where λ is a wave length corresponding to a frequency within the operating band of transmission means within the hollow body supporting the same from said conductive surface and conductively connecting the hollow body with said conductive surface and a feeder having one conductor connected to one side of the transmission line and the other conductor connected to the other side of the transmission line said hollow body having an inside diameter which is substantially not less than .38λ.

2,611,867
SLOTTED WINGED CYLINDRICAL ANTENNA
Andrew Alford, Cambridge, Mass.
Application August 31, 1946, Serial No. 694,319
8 Claims. (Cl. 250—33)



3. An antenna comprising a cylinder of conducting material having a longitudinal slot, short circuit elements across the slot near the ends thereof, means for feeding the antenna at points across the slot to produce a potential difference between the edges of the slot, said points being at a greater distance from the short circuit elements than the virtual half wave length but less than a full virtual wave length of the standing wave along the slot whereby, the potential distribution along the slot has two minimum points, causing the flow of currents in the outside surface of the cylinder in proportion with the potential differences and in one direction between the minima and the short ends, and in the opposite direction between the minimum points, and energy-radiating electrically effective wing elements electrically connected to the edges of the slot and having length and width dimensions for producing in a substantially predetermined manner the distribution in planes normal to the axis of the antenna of energy transmitted therefrom, said wings having widths not less than the diameter of said cylinder and extending from the direction of the cylinder in diverging directions.

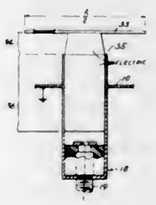
2,611,868
BROADBAND HELICAL ANTENNA
Arthur E. Marston and Mack Donald Adcock, Washington, D. C.
Application November 15, 1949, Serial No. 127,474
5 Claims. (Cl. 250—33.53)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. A high frequency circularly polarized antenna comprising a ground plane, a plurality of end-fire helical elements coaxially interwound in the same direction and disposed above a central point on said ground plane, each of said elements radiating independently of the other and each having different dimensions to provide distinct resonant frequencies, a connection from one end



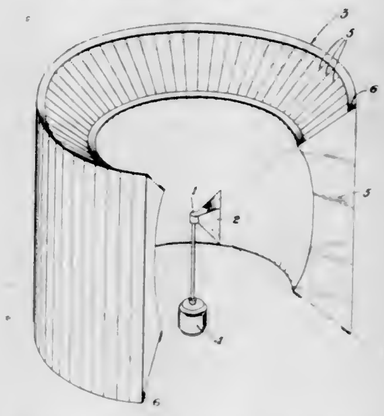
of each of said elements to a single common point, concentric transmission line means connecting said helical elements in phase including an inner conductor connected to said common point and an outer conductor connected to said ground plane.

2,611,869
AERIAL SYSTEM
Eric Osborne Willoughby, London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 1, 1945, Serial No. 591,269
In Great Britain April 21, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 21, 1964
4 Claims. (Cl. 250—33.63)



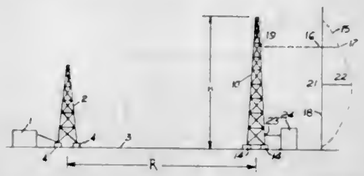
1. A radio antenna comprising a rectangular dielectric element having a part of substantially uniform cross section and a radiating portion of decreasing cross section whereby energy of different effective polarizations may be transferred, a metallic shield surrounding said uniform part of said dielectric element, a conducting plate extending from said shield; an exciting unit mounted within said shield and spaced from one end of said uniform part of the dielectric element, and means for adjusting said spacing to provide impedance match between said dielectric element and said exciting unit.

2,611,870
DIRECTIVE ANTENNA SYSTEM
André Gabriel Clavier, New York, N. Y., assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application January 16, 1947, Serial No. 722,440
5 Claims. (Cl. 250—33.63)



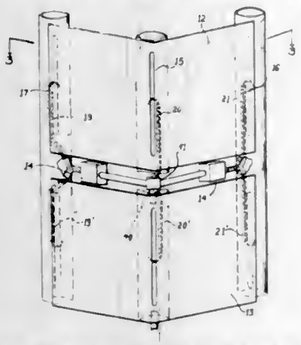
1. A directive radio system comprising a central source of radiant energy, said central energy source comprising a rotating horn for forming said radiant energy into a beam, a fixed lens system surrounding said rotating horn for controlling the phase velocity of the radiated electromagnetic waves, said lens system comprising a plurality of plane, metallic plates arranged in a circle of an axial diameter sufficiently large compared with the wavelength of the radiant energy so that two adjacent metallic plates may be considered as having substantially parallel surfaces where the beam passes therebetween, each of said surfaces being aligned substantially parallel to the respective directions of radiant energy propagation thereby for providing an equi-phase of the radiant energy outside of said surrounding lens system after passage of the radiant energy between said plates.

2,611,871
ANTENNA DETUNING SYSTEM
Andrew Alford, Cambridge, and Henry Jasik, Roslindale, Mass.; said Jasik assignor to said Alford
Application August 28, 1947, Serial No. 771,084
11 Claims. (Cl. 250—33.65)



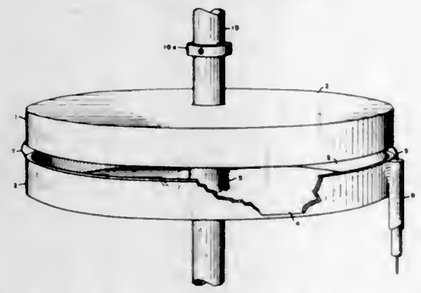
1. An electromagnetic wave radiating system having a primary radiator with a nearby ungrounded conductive structure in which currents are induced from the primary radiator, said grounded conductive structure having a height not substantially greater than seven-tenths of the wavelength corresponding to the frequency of said electromagnetic wave in combination with means for causing substantially equal and

tion sources, whereby a composite radiation pattern substantially of a cardioid figure with a



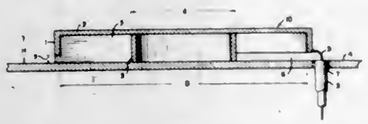
null in the direction of diametrical symmetry of the antenna will be obtained.

2,611,865
TRANSVERSELY GAPPED CYLINDRICAL ANTENNA
Andrew Alford, Cambridge, Mass.
Application June 19, 1946, Serial No. 677,653
15 Claims. (Cl. 250—33)



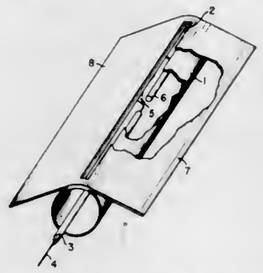
1. In an antenna, a hollow conducting body having continuous side walls, and end walls positioned opposed to one another at opposite ends of the hollow body, said side walls having a linear discontinuity extending around the side walls and spaced from the end walls, a conducting element within the hollow body, extending between the end walls and electrically connected thereto, means having a flat conducting surface on which the hollow conducting body at one of its ends is mounted, said linear discontinuity forming an air gap with the conductive material adjacent both sides of the gap forming a transmission line about the hollow body, and a feeder connected to the body with one terminal thereof connected to one side of the transmission line and the other terminal to the other side.

2,611,866
CYLINDRICAL ANTENNA
Andrew Alford, Cambridge, Mass.
Application June 19, 1946, Serial No. 677,654
20 Claims. (Cl. 250—33)



1. An antenna in combination with means providing a flat conductive surface comprising a hollow conductive body having a peripheral rim spaced closely to the conductive surface forming an air gap between the conductive surface and the peripheral rim in which the material in the peripheral rim adjacent the air gap forms one side of a transmission line and the material in the conductive surface opposite said rim forms the other side of the transmission line, said air gap having a width not substantially greater than .045λ where λ is a wave length corresponding to a frequency within the operating band of transmission means within the hollow body supporting the same from said conductive surface and conductively connecting the hollow body with said conductive surface and a feeder having one conductor connected to one side of the transmission line and the other conductor connected to the other side of the transmission line said hollow body having an inside diameter which is substantially not less than .38λ.

2,611,867
SLOTTED WINGED CYLINDRICAL ANTENNA
Andrew Alford, Cambridge, Mass.
Application August 31, 1946, Serial No. 694,319
8 Claims. (Cl. 250—33)



3. An antenna comprising a cylinder of conducting material having a longitudinal slot, short circuit elements across the slot near the ends thereof, means for feeding the antenna at points across the slot to produce a potential difference between the edges of the slot, said points being at a greater distance from the short circuit elements than the virtual half wave length but less than a full virtual wave length of the standing wave along the slot whereby, the potential distribution along the slot has two minimum points, causing the flow of currents in the outside surface of the cylinder in proportion with the potential differences and in one direction between the minima and the short ends, and in the opposite direction between the minimum points, and energy-radiating electrically effective wing elements electrically connected to the edges of the slot and having length and width dimensions for producing in a substantially predetermined manner the distribution in planes normal to the axis of the antenna of energy transmitted therefrom, said wings having widths not less than the diameter of said cylinder and extending from the direction of the cylinder in diverging directions.

2,611,868
BROADBAND HELICAL ANTENNA
Arthur E. Marston and Mack Donald Adcock, Washington, D. C.
Application November 15, 1949, Serial No. 127,474
5 Claims. (Cl. 250—33.53)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

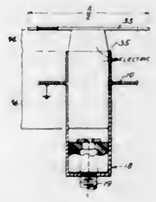
3. A high frequency circularly polarized antenna comprising a ground plane, a plurality of

end-fire helical elements coaxially interwound in the same direction and disposed above a central point on said ground plane, each of said elements radiating independently of the other and each having different dimensions to provide distinct resonant frequencies, a connection from one end



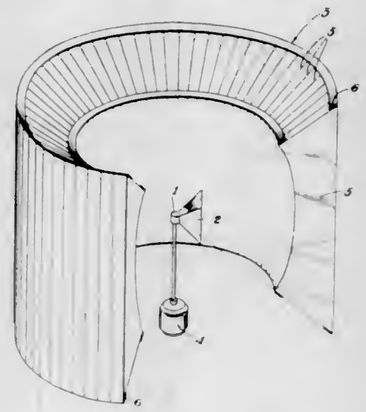
of each of said elements to a single common point, concentric transmission line means connecting said helical elements in phase including an inner conductor connected to said common point and an outer conductor connected to said ground plane.

2,611,869
AERIAL SYSTEM
Eric Osborne Willoughby, London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 1, 1945, Serial No. 591,269
In Great Britain April 21, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 21, 1964
4 Claims. (Cl. 250—33.63)



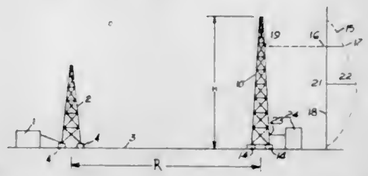
1. A radio antenna comprising a rectangular dielectric element having a part of substantially uniform cross section and a radiating portion of decreasing cross section whereby energy of different effective polarizations may be transferred, a metallic shield surrounding said uniform part of said dielectric element, a conducting plate extending from said shield; an exciting unit mounted within said shield and spaced from one end of said uniform part of the dielectric element, and means for adjusting said spacing to provide impedance match between said dielectric element and said exciting unit.

2,611,870
DIRECTIVE ANTENNA SYSTEM
André Gabriel Clavier, New York, N. Y., assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application January 16, 1947, Serial No. 722,440
5 Claims. (Cl. 250—33.63)



1. A directive radio system comprising a central source of radiant energy, said central energy source comprising a rotating horn for forming said radiant energy into a beam, a fixed lens system surrounding said rotating horn for controlling the phase velocity of the radiated electromagnetic waves, said lens system comprising a plurality of plane, metallic plates arranged in a circle of an axial diameter sufficiently large compared with the wavelength of the radiant energy so that two adjacent metallic plates may be considered as having substantially parallel surfaces where the beam passes therebetween, each of said surfaces being aligned substantially parallel to the respective directions of radiant energy propagation thereby for providing an equi-phase of the radiant energy outside of said surrounding lens system after passage of the radiant energy between said plates.

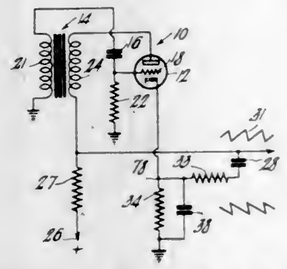
2,611,871
ANTENNA DETUNING SYSTEM
Andrew Alford, Cambridge, and Henry Jasik, Roslindale, Mass.; said Jasik assignor to said Alford
Application August 28, 1947, Serial No. 771,084
11 Claims. (Cl. 250—33.65)



1. An electromagnetic wave radiating system having a primary radiator with a nearby ungrounded conductive structure in which currents are induced from the primary radiator, said grounded conductive structure having a height not substantially greater than seven-tenths of the wavelength corresponding to the frequency of said electromagnetic wave in combination with means for causing substantially equal and

opposite phase reradiation of said electromagnetic wave in different positions of said conductive structure comprising an unenergized impedance connected between ground and the lower end of said conductive structure whereby reradiation of said electromagnetic wave from said conductive structure by virtue of said currents induced therein is substantially reduced.

2,611,872
SAWTOOTH WAVE GENERATOR
Robert K. Lockhart, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1949, Serial No. 84,526
4 Claims. (Cl. 250—36)



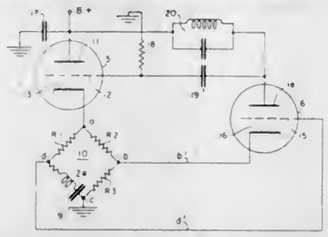
1. An oscillator for producing a voltage of sawtooth waveform comprising a vacuum tube having a cathode, a control electrode, and an anode, an anode circuit connected to said anode, a control electrode circuit connected to said control electrode, means for coupling said control electrode circuit and said anode circuit, a source of positive potential for said anode circuit, a resistor in said anode circuit, one terminal of said resistor being connected to said source of positive potential, a condenser having one terminal thereof connected to the terminal of said resistor opposite the terminal connected to said source of positive potential, means connecting the other terminal of said condenser directly to said cathode, said condenser being periodically discharged upon establishing flow of current in said anode circuit, a time constant combination comprising a resistance and a condenser in parallel, one terminal of said combination being connected to said cathode, the other terminal of said combination being connected to a voltage reference point in said circuit, said time constant combination having a time constant

$$RC=\frac{T}{3}$$

where T is equal to the time of the sawtooth wave represented by the charging time of said first named condenser.

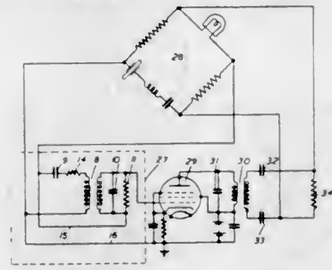
2,611,873
BRIDGE OSCILLATOR
Frank M. Gager, Hyattsville, Md., and James M. Headrick, Washington, D. C.
Application February 24, 1950, Serial No. 146,084
7 Claims. (Cl. 250—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An oscillator circuit comprising a first and second thermionic discharge device each having an anode, a cathode and at least one grid electrode, a normally balanced impedance bridge comprising a plurality of serially-connected impedance elements forming a closed loop, means connecting two opposite vertexes of said bridge to the cathode and grid electrode of said first discharge device, means connecting the other two opposite vertexes of said bridge to the cathode of said second discharge device and to a point



of common reference potential, a tuned resonant circuit in the anode circuit of said first discharge device, and coupling means connecting the anode of said first discharge device to the grid electrode of said second discharge device.

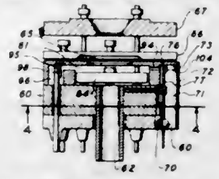
2,611,874
ELECTRIC WAVE FILTER
Bent Bulow Jacobsen and William John Mitchell, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application January 5, 1946, Serial No. 639,289
In Great Britain January 1, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires January 1, 1965
5 Claims. (Cl. 250—36)



3. A frequency selective network comprising a first pair of terminals, a second pair of terminals, a pair of parallel wave transmission paths connecting the first and second pairs of terminals, one of said paths being by itself substantially direct and non-frequency discriminating, the other path comprising a frequency band transmission filter, a resistance terminating said filter and common to both paths to limit the phase change of waves transmitted through the paths to said second pair of terminals to less than 180 degrees at any frequency, said second set of terminals being connected across the input circuit of a grid-controlled electron tube, the output of said electron tube being coupled through a highly selective additional network to the first pair of terminals.

2,611,875
ELECTRON SOURCE
Harold W. Washburn, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application October 1, 1948, Serial No. 52,341
4 Claims. (Cl. 250—41.9)

1. In a mass spectrometer ion source for use in a relatively weak magnetic field, the combination comprising an ionization chamber having a slit in a wall thereof for admitting a beam of electrons into the chamber, an electron emitting filament of smaller cross section than the minor axis of the slit opening mounted adjacent the



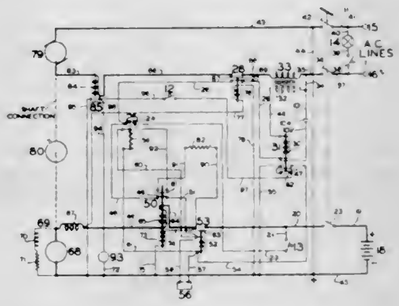
ionization chamber and in alignment with the slit, and means for producing a shaping electrical field around the filament to form the electrons emitted from the filament into an electron beam of smaller cross section than the slit and directed through the slit.

2,611,876
INSPECTION DEVICE
Robert B. Hartman, Fairfield, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application January 17, 1951, Serial No. 206,487
2 Claims. (Cl. 250—218)

1. Apparatus for the delivery of a pulverulent material comprising a vertically disposed tubular passage, an inspection cell in said passage having intake and outlet openings, said cell comprising parallel planar vertically disposed walls spaced by a distance substantially greater than the diameter of said tubular passage and inwardly and downwardly inclined walls below said vertical walls, a flow-controlling baffle in said cell, said baffle comprising end margins defining passages and upwardly converging surfaces meeting in a ridge disposed in alignment with said intake opening, an aperture in and adjacent the top of each of said vertically disposed walls, and photoelectric means mounted adjacent said vertical walls to transmit a beam of light through one of said apertures in the direction of the other of said apertures.

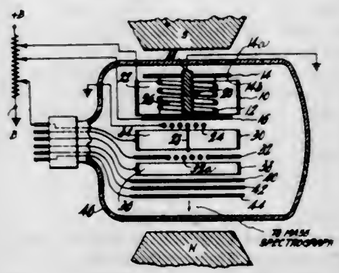
2,611,877
AUTOMATIC STARTING ELECTRICAL CONTROL CIRCUIT FOR ENGINE DRIVEN ELECTRIC POWER GENERATORS
Robert E. Walters, Milwaukee, Wis., assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin
Continuation of application Serial No. 31,797, June 8, 1948. This application October 12, 1951, Serial No. 251,099
9 Claims. (Cl. 290—30)

1. In an automatic electric power plant an internal combustion engine; an alternating current generator connected thereto to be driven thereby; an alternating current load circuit connected to said generator adapted to be closed through a load; a storage battery; an electromagnetic switch having a coil and contacts actuated thereby; a direct current energizing circuit extending from said battery through said coil to said load circuit and returning therefrom to said battery, said energizing circuit being adapted to be closed by imposition of a load upon said load circuit; a transformer having a low impedance primary interposed in series relation in said load



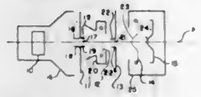
circuit and having a saturable frame and a secondary winding; a maintaining circuit for said electro-magnetic switch means comprising a capacitance and circuit connections joining said transformer secondary said capacitance and said coil in closed series connection; a starting motor drivingly connected to said engine; and a starting circuit extending from said battery to said starting motor, said starting circuit being closeable in response to actuation of the contacts of said electro-magnetic switch.

2,611,878
PARTICLE SOURCE
John H. Coleman, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 9, 1950, Serial No. 178,531
10 Claims. (Cl. 313—63)



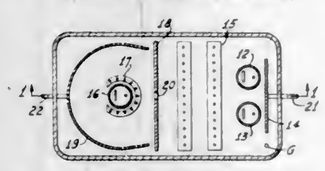
1. In a charged particle source, the combination comprising an anode and a cathode surrounded thereby and concave thereto, said anode and cathode defining therebetween an electron trapping space, said cathode defining and surrounding an auxiliary space and having one or more openings through which said two spaces directly communicate, and a central electrode in said auxiliary space and a coating thereon of a sample to be analyzed.

2,611,879
ELECTRON DISCHARGE DEVICE
Robert Adler, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application March 18, 1948, Serial No. 15,713
16 Claims. (Cl. 313—82)



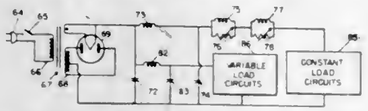
1. An electron discharge device comprising in the order named: an electron gun for projecting an electron beam; an accelerating electrode having an aperture registering with said beam; a control grid having a bulged central portion extending toward said aperture and spaced therefrom by a distance greater than at least one of the transverse dimensions of said aperture; and an additional electrode responsive to an applied unidirectional operating potential for producing an accelerating electrostatic field adjacent said grid on the side thereof remote from said electron gun.

2,611,880
AMPLIFIER GAS TUBE
William Merle Webster, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 22, 1950, Serial No. 197,014
7 Claims. (Cl. 313—189)



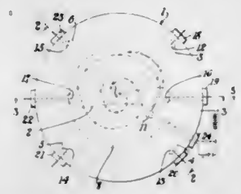
1. A gas amplifier tube comprising: a sealed envelope containing a gaseous filling; said envelope further containing a main cathode and a main anode in cooperative spaced relationship at opposite ends of a load current path therein; a space charge limited cathode and an electrode for receiving electrons therefrom positioned within the envelope and surrounded by said gaseous filling at opposite ends of an auxiliary discharge path which does not coincide with said load current path but a portion of which is in close proximity thereto; terminals over which a source of ionizing potential may be connected between said auxiliary cathode and said receiving electrode for producing an ionizing discharge to provide a conductive plasma between said main cathode and anode; and a control grid adjacent said auxiliary cathode for controlling the ionizing discharge and thereby the plasma density.

2,611,881
TELEVISION RECEIVER
George D. Hulst, Upper Montclair, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application May 24, 1950, Serial No. 163,826
5 Claims. (Cl. 315—31)



1. In a television receiver containing a source of direct current, a first circuit comprising a direct current electromagnet connected in series to a plurality of parallel connected constant direct current consuming stages, and a second circuit including a plurality of parallel connected variable direct current consuming stages, said first and second circuits being connected to said source of direct current in parallel.

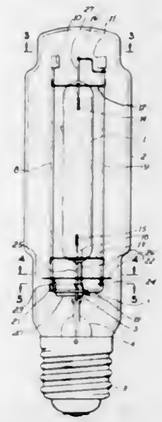
2,611,882
ELECTRON DISCHARGE DEVICE
Robert S. Bailey, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 4, 1948, Serial No. 6,283
8 Claims. (Cl. 315—39)



1. An electron discharge device of the magnetron type comprising an electron source and an anode, a magnetic field source mounted adjacent said anode to provide a magnetic field transverse to the initial path of electrons from said source to cause said electrons to follow spiral trajectories from said electron source about said anode, a plurality of main cavity resonators mounted in a circle about said anode in energy transfer relation with electrons following said trajectories whereby certain of said electrons are accelerated to follow a wider spiral trajectory and a plurality of auxiliary cavity resonators mounted at a greater distance from said anode than said main resonators in energy-transfer relation with said initially accelerated electrons following said wider trajectory whereby said auxiliary resonators decelerate said electrons by energy transfer sufficient to cause them to return to energy transfer relation with said main resonators.

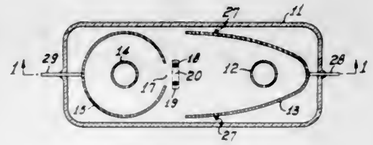
2,611,883
HIGH-PRESSURE MERCURY VAPOR LAMP
Edward B. Noel, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application March 27, 1948, Serial No. 17,423
8 Claims. (Cl. 315—112)

1. A high pressure mercury vapor electric discharge lamp deleteriously affected by hydrogen in its discharge space and comprising in combination, a sealed tubular quartz envelope, pervious to hydrogen at elevated temperatures, defining a discharge space and containing mercury, a starting gas and electrodes mounted at its ends, a sealed tubular glass outer envelope completely enclosing said quartz envelope and containing an inert gas, the glass of said outer envelope being a hard glass characterized by the presence of hydrogen in said glass envelope at elevated temperatures, means supporting said quartz envelope within said glass envelope, and an energizing circuit for said lamp connected to said electrodes, said circuit including means for supplying the lamp with a predetermined power input, said quartz inner envelope and said glass outer envelope being so dimensioned with respect to said predetermined power input that the specific wall loading on the said glass envelope is within the range of not less than about 1 and not more than 1.5 watts per square centimeter



and the specific wall loading on said quartz envelope is between about 8 and 13.2 watts per square centimeter to minimize the occurrence of hydrogen in the lamp.

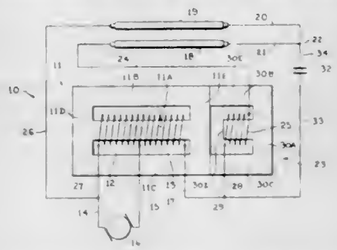
2,611,884
AMPLIFIER GAS TUBE
William Merle Webster, Jr., Princeton, and George W. Bain, Jr., New Brunswick, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 28, 1951, Serial No. 217,912
16 Claims. (Cl. 315—168)



1. A gas amplifier tube comprising: a sealed envelope containing a gaseous filling; means for carrying a load current through the tube comprising a main cathode and a main anode in cooperative spaced relationship; means including an auxiliary cathode for producing an ionizing discharge to provide a conductive plasma between said main cathode and anode; means adjacent said auxiliary cathode for forming the ionizing discharge into a directed stream having a constricted portion of smaller cross-sectional area than the rest; and means for constriction-modulating said stream to thereby modulate the plasma density.

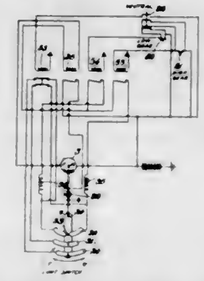
2,611,885
FLUORESCENT TUBE LIGHTING SYSTEM AND APPARATUS
John Herold Bridges, Atlanta, Ga., assignor to National Inventions Corporation, a corporation of New Jersey
Application August 20, 1948, Serial No. 45,357
5 Claims. (Cl. 315—255)

1. A fluorescent gaseous discharge tube lighting system comprising a source of alternating current electrical energy of predetermined frequency, an auto-transformer having a shell-type core with central leg upon which primary and secondary windings are disposed in side-by-side relation and connected together in series and with the primary winding thereof connected to said source, a pair of series-connected fluorescent gaseous discharge tubes, an iron core reactor disposed in abutting relation on one end of said transformer core with the winding on said reactor connected at one end to the transformer



secondary winding and at the other end connected to one end of said series-connected fluorescent tubes, and a condenser shunted across said reactor and one only of said tubes, said other end of said fluorescent tubes being connected to the primary winding, and the reactor and transformer secondary winding being formed of the same size wire.

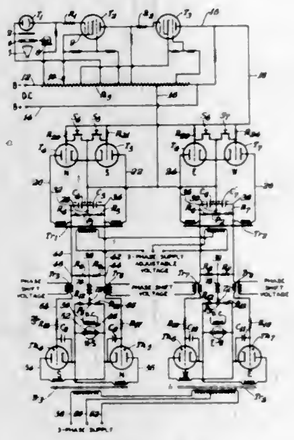
2,611,886
POWER-TRANSMISSION MECHANISM
Andrew Mathis Kamper, Coventry, England, assignor to Humber Limited, Coventry, England, a British company
Application January 14, 1949, Serial No. 70,975
In Great Britain January 14, 1948
6 Claims. (Cl. 318—15)



1. Driving mechanism comprising rotatable driving and driven members, a reversible electric motor with an operable connection for rotating the driving member in either direction of rotation, two motor-operating electric circuits and switch means for selectively energizing the motor to run in either direction, an epicyclic gear train connecting the driving and driven members and including a rotatable reaction gear, an electrically operable brake for braking the reaction gear to afford a drive between the driving and driven members through the gear train, two limit-switches one in each of the two motor-operating circuits and appropriated to two end positions in the rotation of the driven member, a third limit-switch appropriated to an intermediate position in the rotation of the driven member and having contacts in shunt circuits around the aforesaid two limit-switches for operating the motor in the two directions, means for automatically energizing the brake circuit to apply the brake when any of the motor operating circuits is energized and for deenergizing the brake cir-

cuit when the motor circuit is broken, and a switch operating member movable with the driven member for operating the three limit switches to break the motor circuit at the positions respectively corresponding to the end and intermediate positions of the driven member to which the switches are appropriated.

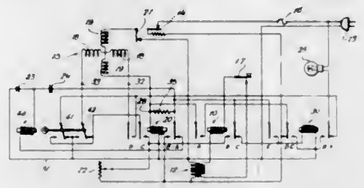
2,611,887
LINE TRACKER CONTROL ELECTRONIC DRIVE
Roscoe R. Lobosco, Elizabeth, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application November 25, 1949, Serial No. 129,481
9 Claims. (Cl. 318—19)



1. In an automatic tracer of the type in which the tracing movement of a photocell is controlled by north-south and east-west motors which are driven in response to line viewing light pulsations applied to such photocell, whereby the motors drive the photocell along a path corresponding to a templet viewed by such photocell in the light of such light pulsations, an electronic drive for said motors comprising an electronic trigger coupled to said photocell, four quadrature-phased electronic discriminators coupled to said electronic trigger, means tying the operation of said discriminators in phase with such light pulsations, quadrature-phased east-west and north-south pairs of thyratrons coupled to said discriminators, and means coupling each pair of said thyratrons to the corresponding east-west and north-south motor, so that said motors are energized by the firing of said thyratrons in response to the position of said photocell with respect to such line and drive the photocell along the line at a substantially constant speed.

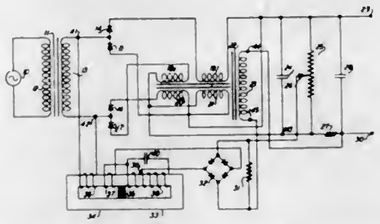
2,611,888
REVERSIBLE ELECTRIC CONTROL SYSTEM
George F. Richards, Garden City, N. Y., assignor to Teletronics Laboratory, Inc., Westbury, N. Y., a corporation of New York
Application January 7, 1950, Serial No. 137,410
9 Claims. (Cl. 318—202)

1. A control system for propulsion of an object between first and second limits of travel thereof, comprising a reversible electric motor coupled to said object, a control circuit therefor including a switch circuit, means in said control circuit responsive to a momentary closure of said switch circuit when said object is at said first limit of its travel for providing sustained energization of said motor for operation in the direction driving said object toward said second limit of its travel, means in said control circuit responsive to a momentary closure of said switch circuit while said object is being propelled toward said second limit of its travel for deenergizing said electric motor and conditioning the control system to receive a further input circuit closure for instituting propulsion of said object toward said first limit of its travel, means in said control circuit responsive to the reaction of



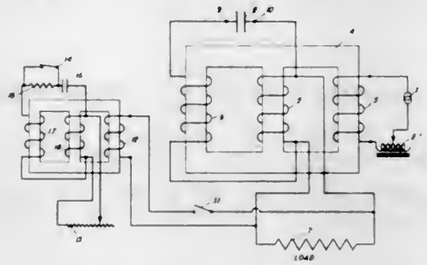
said electric motor to the increased propulsion resistance upon arrival of said object at said second limit of its travel for deenergizing said electric motor and conditioning said system to receive a further switch circuit closure for instituting propulsion of said object toward said first limit of its travel, and means in said control circuit responsive to a momentary closure of said switch circuit after arrest of propulsion of said object toward said second limit of its travel for instituting operation of said electric motor in the direction driving said object toward said first limit of its travel.

2,611,889
REGULATED RECTIFIER
Henry M. Huge, Lorain, Ohio, assignor to Lorain Products Corporation, a corporation of Ohio
Application March 23, 1948, Serial No. 16,579
7 Claims. (Cl. 321—25)



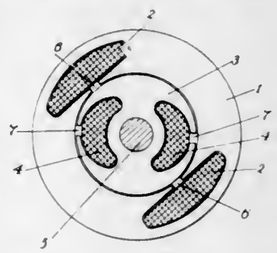
1. A regulated rectifying arrangement comprising in combination, a plurality of alternating current terminals, a pair of direct current terminals, magnetic core means, first and second winding means on the magnetic core means, rectifying means, said first winding means and said rectifying means being connected in series between said alternating current terminals and said direct current terminals, a voltage divider connected across said direct current terminals, a reference rectifier, means for energizing said reference rectifier with an alternating voltage which varies oppositely as the voltage across said alternating current terminals varies, a resistor connected to one of said direct current terminals and traversed by load current, and a circuit extending from one of said direct current terminals to an intermediate point on said voltage divider and including said resistor, said reference rectifier and said second winding means in series.

2,611,890
MULTIVIBRATOR AND IMPULSE GENERATOR
Philip J. Walsh, San Francisco, Calif.
Application February 21, 1949, Serial No. 77,550
5 Claims. (Cl. 321—68)



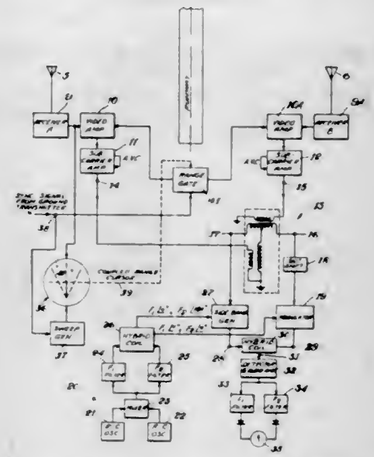
1. A device for generating from an alternating current supply, spaced trains of waves of supply frequency comprising a first transformer unit having a core including three legs bearing respectively a primary coil and two secondary coils and a condenser connected in series with both of said secondary coils to form a loop circuit, means for connecting a load across at least one of said secondary coils, and a second transformer unit of like construction having the primary coil thereof connected across said last mentioned secondary coil.

2,611,891
VARIOMETER AND INDUCTION REGULATOR
John Bell, Beckenham, England, assignor to Muirhead & Company Limited, Beckenham, England
Application December 27, 1949, Serial No. 135,068
In Great Britain June 18, 1947
5 Claims. (Cl. 336—120)



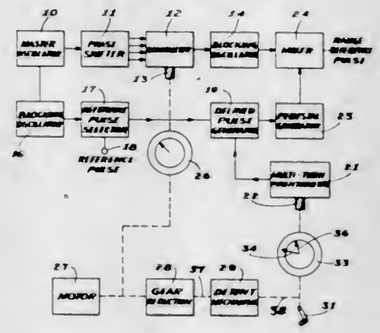
1. A single phase variometer or induction regulator comprising a stator and a rotor, a winding of the stator and a winding of the rotor each concentrated in two slots diametrically opposite each other and extending in a direction parallel with the axis of the stator and rotor, the windings being completely enclosed by the magnetic material of the stator and rotor except for an opening in each of the slots narrow in relation to the maximum circumferential dimensions of the slots, and the remainder of the adjacent surfaces of the rotor and stator respectively, apart from the slots, being truly cylindrical and coaxial with each other within the practical limits of manufacture, the openings in the slots being sufficiently narrow for these cylindrical surfaces to extend around substantially 360 degrees of circumference.

2,611,892
LANDING INFORMATION RECEIVING SYSTEM
Anthony Casabona, Hawthorne, and Gus Stavis, Ossining, N. Y., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application April 17, 1948, Serial No. 21,654
9 Claims. (Cl. 343—11)



1. A receiving system for pulse energy radiated from a remote craft to be guided along a prescribed course, comprising two antennas spaced apart transversely of said course, means for combining the pulse energy received by each of said antennas to provide sum and difference output components thereof, a source of separate modulation waves, means for separately modulating each of said component outputs with separate ones of said waves, means for combining said two modulated outputs, means for demodulating said two modulated outputs to obtain the modulation components thereof, indicator means, and means for applying the modulation components to said indicating means for indicating the direction of said craft.

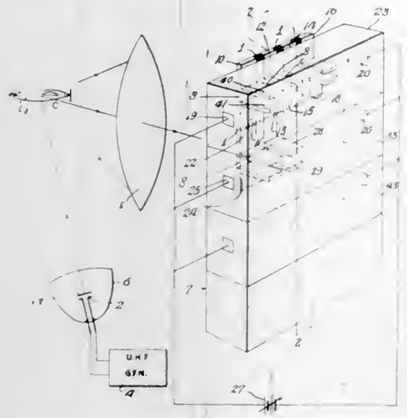
2,611,893
HIGH-SPEED SLEWING
David O. McCoy, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application March 30, 1951, Serial No. 218,359
7 Claims. (Cl. 343—13)



1. Means for quickly making large changes in range comprising, a multi-turn potentiometer

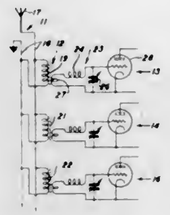
with a control shaft that controls the coarse adjustments of range, a goniometer with a control shaft that controls the fine adjustments of range, a driving means connected to the goniometer shaft, a gear reduction connected to said driving means, a detent mechanism connected to said gear reduction, the shaft of said multi-turn potentiometer connected to said detent mechanism, and a crank connected to said multi-turn potentiometer shaft.

2,611,894
THERMOELECTRIC SYSTEM FOR REMOTE OBJECT IMAGES
Robert Harvey Rines, Brookline, Mass.
Application July 18, 1945, Serial No. 605,721
24 Claims. (Cl. 343—17)



10. An electric system having, in combination, a plurality of thermoelectric-couple elements for receiving and rectifying radio waves from an object, each thermoelectric-couple element corresponding to an elemental portion of the object from which it receives the radio waves, and gas-discharge means responsive to the rectified energy produced in the thermoelectric-couple elements by the radio waves from the corresponding elemental portions of the object for producing elemental portions of a likeness of the object corresponding to the radio waves received and rectified by the corresponding elements.

2,611,895
MULTIPLEX ANTENNA DISTRIBUTION SYSTEM
Edward Lacey, Los Angeles, Calif.
Application December 8, 1948, Serial No. 64,063
19 Claims. (Cl. 343—205)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



19. A multiplex circuit comprising: broad-band transmission means; step-down, broad-band transformer means having the high turns terminals thereof connected to said transmission means; and a plurality of generally similar series-resonant circuits connected to the low turns terminals of said transformer means, the impedance of each said circuit at resonance reflected thru said transformer means being substantially matched to the impedance of said transmission means and being much higher off resonance.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

59,785. **COPOLYMERS OF UNSATURATED HYDROXY-ETHERS.** Daniel Swern, Philadelphia, and Geraldine B. Dickel, Monongahela, Pa., assignors to the United States of America as represented by Charles F. Brannan, Secretary of Agriculture. Filed Nov. 12, 1948. Published Sept. 23, 1952. Class 260—85.7. No drawing. 10 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)

Olefinic compounds are copolymerized with unsaturated hydroxy-ethers of the following formula

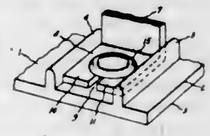


where R is an aryl or aliphatic hydrocarbon radical which may contain halogen or an OH group, or other substituent, and R′ is the radical of an aliphatic monounsaturated olefinic alcohol preferably free of substituents other than halogen.

The hydroxy-ethers are made by the reaction of olefin oxides, such as, styrene oxide, propylene oxide, glycidol, epichlorhydrin and 3-4-epoxy-1-butene with allyl or alkyl- or halogen-substituted allyl alcohol, such as, chloroallyl, methallyl and crotyl alcohols or methyl vinyl carbinol. Suitable hydroxy-ethers include for example 2-alloxy-2-phenylethanol, 2-alloxy-1-phenylethanol, 1-alloxy-2-propanol, 2-alloxy-1-propanol, 1-alloxy-3-chloro-2-propanol, 2-alloxy-1,3-propanediol and 3-alloxy-4-hydroxy-1-butene.

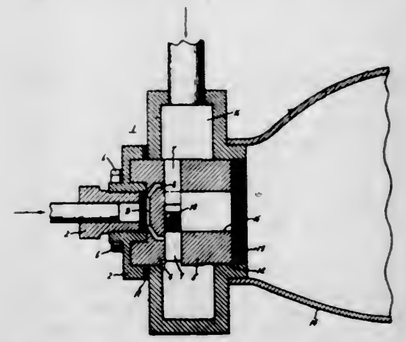
The hydroxy-ethers are copolymerized with the olefinic compounds by conventional means, as by warming with organic peroxides, to produce soluble copolymers. One or several of the hydroxy-ethers can be copolymerized with one or more active olefinic compounds, such as, vinyl chloride, vinylidene chloride, vinyl acetate, styrene, butadiene, isoprene, diallyl phthalate, acrylonitrile and diallyl maleate. With vinyl acetate, as the proportion of hydroxy-ether in vinyl acetate is increased from 1 to 40% the copolymer changes from a hard, glasslike solid to a clear, colorless, viscous liquid.

79,374. **ELECTRIC TERMINAL FASTENER.** Edward O. Andersen, Ballston Spa, N. Y., assignor to General Electric Co., a corporation of New York. Filed Mar. 3, 1949. Published Sept. 23, 1952. Class 173—324. 1 sheet of drawings. 8 pages of specification.



This application discloses an electric terminal fastener including a substantially flat base member 1 of insulating material having a pair of raised abutments 4 and 5 in spaced apart relation on one surface 2 of the said base member, and an aperture in the base member between the abutments. A flat strip 8, forming an end portion of an electric conductor 7, has a slot 9 in the flat strip portion forming a pair of cooperating arms 10 and 11 which fit between the spaced apart abutments 4 and 5, with a portion of the said slot forming a common opening with the aperture in the base 1 and with each of the said arms in juxtaposed relation with one of the said abutments. An electrically conductive rivet 15 arranged to be flared for fastening the conductor portion to the base member has a head resting against the base member about the said aperture on the opposite, or lower, surface of the base member and a hollow shank passing through the common opening in a manner such that when the shank is flared out in clamping position, as shown in the drawing, it forces the arms 10 and 11 into locking engagement with the abutments 4 and 5 and thereby holds the conductor in a substantially fixed position relative to the base member. The rivet may include an internally threaded portion in the hollow shank thereof arranged to receive a screw from the opposite side of base member 4 for connecting a second electric conductor to the conductor 7.

90,495. **SPRAY NOZZLE FOR A JET PROPULSION POWER PLANT.** Sooren E. Gamarekian, Alplaus, N. Y., assignor to General Electric Co., a corporation of New York. Filed Apr. 29, 1949. Published Sept. 23, 1952. Class 60—39.46. 1 sheet of drawings. 5 pages of specification.



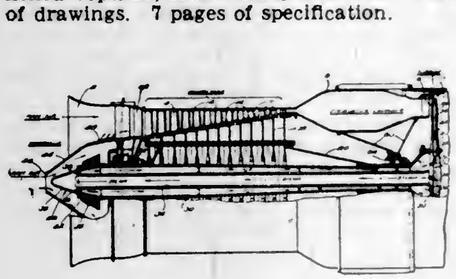
A device for supplying a mixture of liquid fuel and oxidizer to a combustion chamber of a gas turbine engine comprising structure defining a combustion chamber 14, a mixing chamber 10, an oxidizer inlet chamber 16, a plurality of tangentially arranged passageways 7 to conduct oxidizer from the oxidizer inlet chamber tangentially into the mixing chamber, and an inlet fuel passage 9 terminating in a plurality of passageways 8 connecting the inlet fuel passage with the oxidizer passageways so that the oxidizer carries the fuel into the mixing chamber 10.

102,374. **VESSEL FOR POURING LIQUIDS.** Robert M. Lacy, Southport, Conn., assignor to General Electric Company, a corporation of New York. Filed June 30, 1949. Published Sept. 23, 1952. Class 222—571. 1 sheet of drawings. 7 pages of specification.



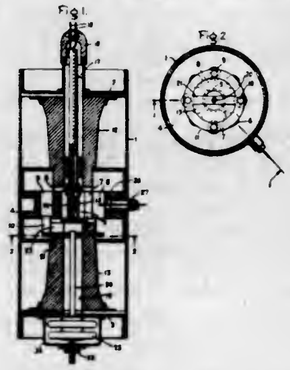
On a coffee-maker bowl 1, or similar liquid dispensing vessel having a continuous circumferential pouring edge 4, a dripless pouring spout 7 is provided on the edge, in the form of an opaque coating of a hardened, red colored, silicone enamel firmly adhered to a limited portion of the circumference of the pouring edge and extending inside the vessel, over the edge and outside the vessel, such enamel having non-wetting properties and, by its opaqueness and color, indicating the presence and extent of the dripless area.

118,419. **SEALED COOLING SYSTEM FOR TURBO-JET ENGINE.** Philip P. Newcomb, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware. Filed Sept. 28, 1949. Published Sept. 23, 1952. Class 230—116. 1 sheet of drawings. 7 pages of specification.



As illustrated in the drawing, in cooling the turbine blades and the supporting disc in a gas turbine power plant a coolant is circulated through the driving sleeve **20** connecting the compressor and turbine rotors. Finned heat exchanger **28** is mounted on the forward end of hollow shaft **30** secured to the turbine rotor and concentric tube **34**, and is located within the power plant inlet where it is subject to the cooling effect of air entering the power plant. Coolant is circulated in liquid form from the heat exchanger through hollow shaft **30**, to turbine disc **24** at the opposite end of the shaft. The coolant enters space **54** within the disc through passages **50** and is thrown into blades **26** by centrifugal force, the blades being hollow for the circulation of the coolant therethrough. The elevated temperature of the gases passing over the blades vaporizes the coolant within the blades which vapor flows radially inward through the turbine disc and enters the smaller diameter concentric tube **34** within shaft **30** through passage **58**. The vapor flows forward through tube **34** into heat exchanger **28** and re-enters shaft **30** through openings **38**.

121,346. **MAGNETRON TUNING ARRANGEMENT.** Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Oct. 14, 1949. Published Sept. 23, 1952. Class 315—40. 1 sheet of drawings. 9 pages of specification.



This application relates to a tunable magnetron oscillator having one or more secondary tuning bores or cavities in a magnetron anode structure which are separate and distinct from the conventional cavity resonators in the anode structure, although coupled to them by the mutual ultra-high frequency magnetic fields threading through the anode apertures. These tuning bores may be thus considered as a secondary circuit inductively coupled to the cavity resonators comprising the primary circuit. A conventional crown-like tuning arrangement having one or more metallic members extending a variable distance into the secondary tuning bores is employed to change the self inductance of the tuning bores and thus tune the primary cavity resonators of the magnetron to which they are coupled.

143,340. **CHEMICAL PROCESS AND COMPOSITION.** Joseph H. Dickson, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours and Co., Wilmington, Del., a corporation of Delaware. Filed Feb. 9, 1950. Published Sept. 23, 1952. Class 260—501. No drawing. 9 pages of specification.

Substantially odorless aqueous solutions of the dimethylamine salt of 2,4-dichlorophenoxyacetic acid and methods for preparation of such solutions are disclosed. The solutions are prepared by mixing dimethylamine and 2,4-dichlorophenoxyacetic acid in aqueous solution and adjusting the solution to a pH of 5.9 to 6.7. The stated pH is preferably obtained by controlling the proportions of the reagents used. The mixing is effected preferably at 35–55° C. Addition to the solution of a sequestering agent such as ethylenediamine tetra-acetic acid is desirable if the solution is to be further diluted with hard water. The following example illustrates:

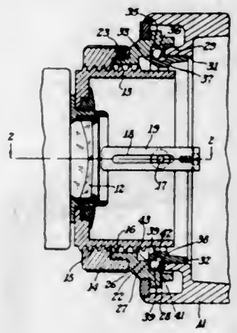
2230 pounds of water are charged into a vented stainless steel reactor equipped with a stainless steel paddle type agitator driven by a 7½ hp. motor. The reactor also contains stainless steel coils which can be used alternatively for heating and cooling. 2200 pounds of pulverized technical grade 2,4-dichlorophenoxyacetic acid are then charged to the reactor with agitation to give a suspension of the acid in water. The mixture is heated to about 40° C.

While continuing the agitation and maintaining the temperature within a few degrees of 40° C., 460 pounds of commercial dimethylamine are fed into the suspension over a period of 15 minutes. The reaction mass is now completely liquid except for a very small amount of sludge-like impurities. Agitation is continued for a few minutes to assure completion of the reaction.

The solution has a pH above pH 6.7 at the completion of the dimethylamine addition and an additional 77 pounds technical 2,4-dichlorophenoxyacetic acid are added to adjust the solution to pH 6.3 (pH determined by Beckman Glass Electrode, corrected to pH 6). 178 pounds of a neutral proprietary sequestering agent are then added to the resulting solution. The specific gravity of the batch is adjusted to about 20.8° Bé. at 20° C. by addition of 286 pounds of water. The batch is then filtered thru a screen-leaf filter; 30 pounds of sludge are removed.

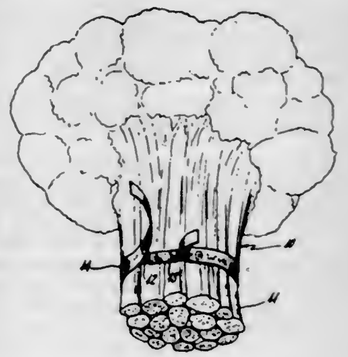
The finished composition consists of approximately 5300 pounds of a clear amber colored solution containing approximately 50 per cent by weight of the dimethylamine salt of 2,4-dichlorophenoxyacetic acid. The product is stable at normal temperatures, is free of objectionable dimethylamine odor and can be safely diluted with water without causing significant precipitation of 2,4-D salts.

144,152. **BALL BEARING SUPPORT FOR LENS MOUNT.** Douglass C. Harvey and Norman N. Lareau, Rochester, N. Y. Filed Feb. 14, 1950. Published Sept. 23, 1952. Class 95—45. 1 sheet of drawings. 16 pages of specification.



This disclosure relates to a ball bearing support for the focusing lens of a camera. As shown in Figure 1 of the drawing, a lens tube **13** carrying lens system **12** is axially but non-rotatively movable in an annular mounting member **11**. An internally threaded focusing ring **14** engages external threads on tube **13**. Ring **14** is rotatively but non-axially movable with respect to member **11**, by being attached to ring **22** by screws **23**. Threaded into member **11** is a ring **32** on which is formed an inclined surface **36**, parallel to an inclined surface **28** on ring **22**. Between the two inclined surfaces are mounted ball bearings **39**, which also engage wear plates **42** and **43**. Adjustment of the ring **32**, relative to member **11**, positions the surfaces **28** and **36** in such relation to the ball bearings **39** that the ring **22** is held accurately in position both axially and radially relative to member **11**. The ring **22** may be provided with a cam surface for engagement by the adjusting mechanism of a range finder. The ball bearing support allows rotative movement of the focusing ring **14** and ring **22**, to adjust the position of the lens **12** and the range finder, without play between the parts and thereby assures accurate correlated movement of the lens and range finder.

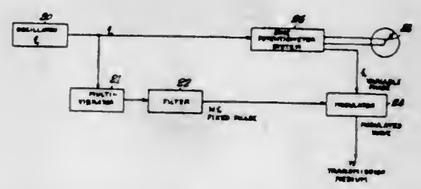
153,696. **BUNCHING OF ARTICLES SUCH AS VEGETABLES.** Clinton B. Pike, Jr., San Jose, Calif., assignor to Roy M. Magnuson. Filed Apr. 3, 1950. Published Sept. 23, 1952. Class 99—171. 1 sheet of drawings. 3 pages of specification.



Referring to Figure 1, there is illustrated a bunch of broccoli **10** composed of bunched and trimmed pieces **11** of broccoli which are held together by a tie or wrapping in the form of an adhesive tape **12** having its ends overlapped as at **13**. The tape **12** is placed on the bunch with a tacky or adhesive covered side facing outwardly so that the label or wrapping **14** can be placed around the bunch and will adhere thereto by virtue of sticking to the tie or tape **12**. Preferably, the article contacting surface of the tie is non-adhesive.

158,878. **TELEMETERING SYSTEM.** Paul G. Hansel, Hempstead, N. Y. Filed Apr. 28, 1950. Published Sept. 23, 1952. Class 177—351. 1 sheet of drawings. 8 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)



The apparatus shown in Fig. 2 is a transmitter which is used as part of a telemetering system. An oscillator **20** provides a signal of frequency f_o. A portion of this signal is used to synchronize a multivibrator **21**. A filter **22** at the output of the multivibrator passes only a signal of frequency Nf_o, this signal beeing applied to modulator **23** to serve as a carrier wave.

In this system the intelligence which it is desired to transmit is the angular position of dial **24**. The position of this dial will control the phase angle of the modulation signal with respect to the fixed-phase carrier system.

By means of a suitable system **25** including a sine potentiometer, such as shown in U. S. Patent 2,241,615 to Plebanski, there is fed to modulator

23 a signal of frequency f_0 whose phase angle is determined by the position of dial **24**.

The output of modulator **23** consists of a fixed-phase carrier of frequency Nf_0 modulated by a variable-phase intelligence signal of frequency f_0.

The output of the transmitter is transmitted to a receiver where the data is indicated on a cathode ray tube.

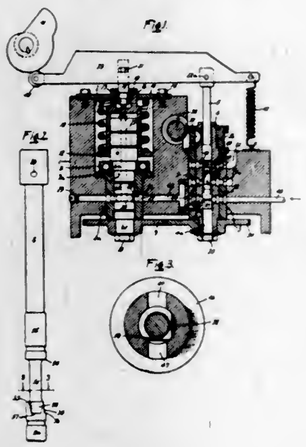
165,377. **THREAD LUBRICANT.** Rudolph C. Buchan, Houston, Tex., assignor to Humble Oil & Refining Company. Filed May 31, 1950. Published Sept. 23, 1952. Class 252—19. No drawing. 3 pages of specification.

This disclosure relates to a thread lubricant and particularly one adapted to be used at high pressures.

A thread lubricant in accordance with this disclosure which prevents pipe threads from galling is prepared by admixing either powdered zinc or powdered lead with a grease which is water resistant, the powdered lead or zinc forming at least 85% by weight of the composition. The water resistant grease is an aluminum soap-base grease or a calcium soap-base grease. Greases of this nature resist solubility in water and adhere to metal surfaces such as pipe threads subsequent to use.

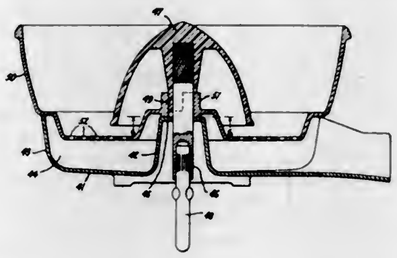
A grease composition comprising 85% zinc and 15% of an aluminum soap-base grease gives effective results.

170,107. **HYDRAULIC SERVO MECHANISM.** Neal E. Starkey, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed June 24, 1950. Published Sept. 23, 1952. Class 137—622. 1 sheet of drawings. 16 pages of specification.



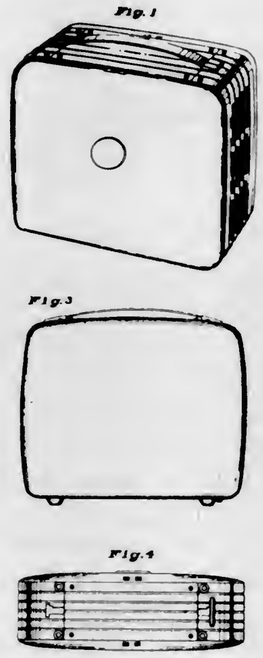
This application relates to hydraulic servo mechanism wherein a control valve includes an improved slidable pilot spindle **5** which can reciprocate and is in combination with a ported continuously rotating bushing **4**. The reciprocation of spindle **5** controls the flow of operating fluid to a hydraulic motor. Instead of having a plain annular cut-off edge, spindle **5** is provided with one or more tapered flats **58**, **59**. The drawings show these flats as disposed at 90° to one another. Rotation of the ported bushing past these flats produces a discontinuous flow varying in a cyclical manner.

193,151. **JUICE EXTRACTOR WITH VIBRATING STRAINER.** Walter R. Weeks, Hamden, Conn., assignor to General Electric Company, a corporation of New York. Filed Oct. 31, 1950. Published Sept. 23, 1952. Class 146—3. 2 sheets of drawings. 13 pages of specification.



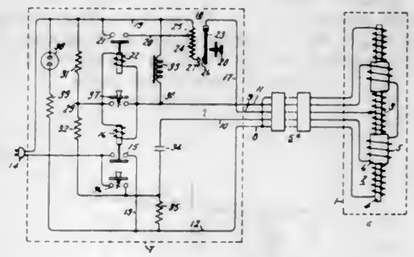
The application discloses a fruit juicer for an electric food mixer comprising a juice collecting bowl **41** having a hub **42** on which a strainer **50** and a reamer **47** are supported. Strainer **50** has an offset shoulder which rests on the rim of bowl **41**. Reamer **47** has a drive spindle **48**. The hub **51** of the strainer surrounds an eccentric **49** on the drive spindle whereby when the spindle rotates it imparts a reciprocating motion to the strainer.

D. 16,639. **MOTION-PICTURE PROJECTOR CARRYING CASE.** Frederick G. Knowles, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey. Filed Sept. 14, 1951. Published Sept. 23, 1952. Class D61—1(1.2). 3 sheets of drawings. 1 page of specification.



This application discloses the ornamental design for a motion-picture projector carrying case substantially as shown in Figs. 1, 3, and 4.

258,840. **CONTROL FOR ELECTRICALLY HEATED BED COVERING.** Robert F. Sambleson, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York. Filed Nov. 29, 1951. Published Sept. 23, 1952. Class 219—20. 1 sheet of drawings. 11 pages of specification.



The application discloses an electric sheet with heating resistor **3** separated from signal wire **5** by an insulator **6** such as nylon which becomes conducting above room temperature. **36** is a starting switch causing relays **16** and **22** to close. The winding of relay **22** is connected across opposite terminals **29**, **30** of an impedance bridge which includes signal wire **5**. A cycling thermostat **18** is provided with two heating winding sections **24** and **25**. When the sheet is used alone, relay **22** is closed, the thermostat cycling on heating winding section **24** only. When the sheet is covered with a blanket, **6** becomes conducting, affecting the bridge circuit so that relay **22** opens. This cuts in heating section **25**, the thermostat then cycling on both thermostat heating sections.

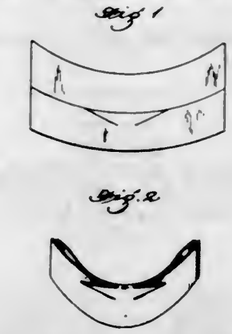
662 O. G.—77

D. 17,642. **COLLAR STIFFENER.** Myron B. Stevens, Bethesda, Md. Filed Dec. 7, 1951. Published Sept. 23, 1952. Class D80—5. 1 sheet of drawings. 1 page of specification.



This application discloses the ornamental design for a collar stiffener substantially as shown in the two figures of the drawing.

D. 17,643. **COLLAR SUPPORT.** Myron B. Stevens, Bethesda, Md. Filed Dec. 7, 1951. Published Sept. 23, 1952. Class D80—5. 1 sheet of drawings. 1 page of specification.

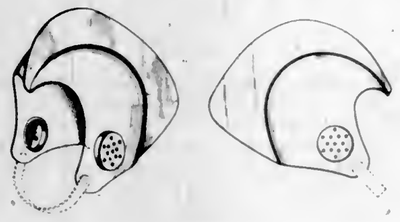


This application discloses the ornamental design for a collar support substantially as shown in the two figures of the drawing.

DESIGNS

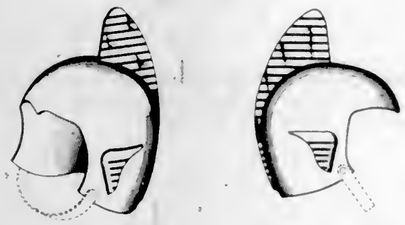
SEPTEMBER 23, 1952

167,789
HELMET
Glenn T. Adams, Chicago, Ill.
Application April 10, 1952, Serial No. 19,281
Term of patent 14 years
(Cl. D3—13)



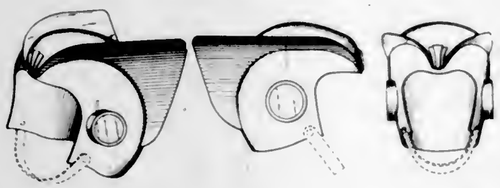
The ornamental design for a helmet, as shown and described.

167,790
HELMET
Glenn T. Adams, Chicago, Ill.
Application April 10, 1952, Serial No. 19,282
Term of patent 14 years
(Cl. D3—13)



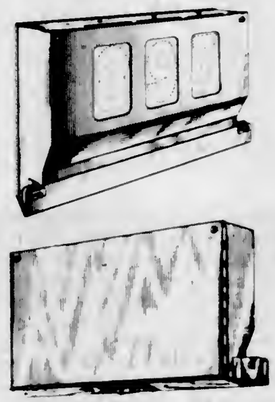
The ornamental design for a helmet, as shown and described.

167,791
HELMET
Glenn T. Adams, Chicago, Ill.
Application April 10, 1952, Serial No. 19,283
Term of patent 14 years
(Cl. D3—13)



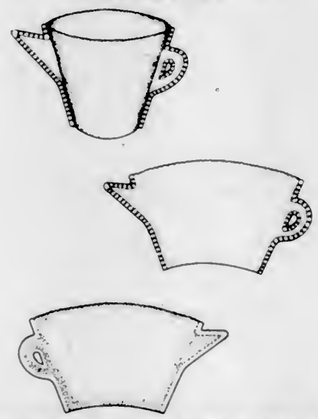
The ornamental design for a helmet, as shown and described.

167,792
RAILWAY CAR NUMBERING SIGN
Frank P. Brown, Midlothian, and Merrill G. Marshall, Homewood, Ill., assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application August 10, 1950, Serial No. 11,704
Term of patent 14 years
(Cl. D1—12)



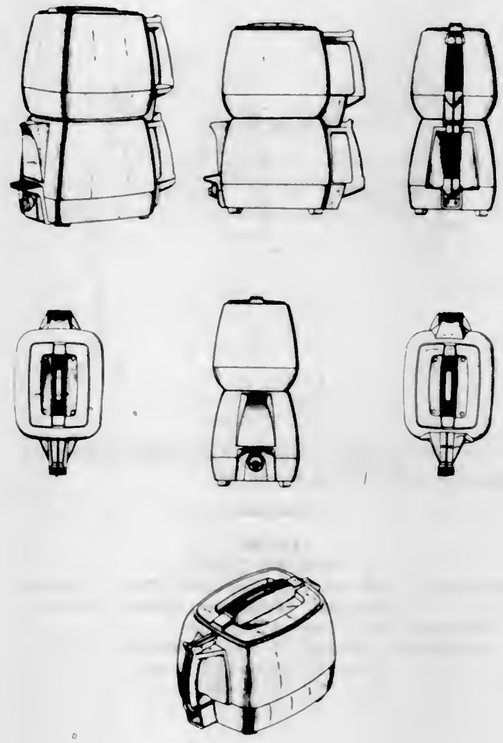
The ornamental design for a railway car numbering sign, substantially as shown and described.

167,793
PLASTIC FLOWERPOT COVER OR THE LIKE
Samuel W. Brunner, Flushing, N. Y.
Application January 15, 1952, Serial No. 18,079
Term of patent 3½ years
(Cl. D59—2)



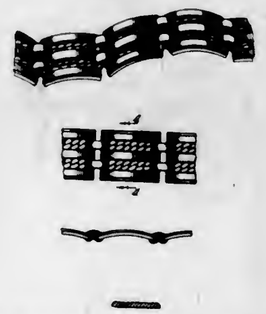
The ornamental design for a plastic flowerpot cover or the like, substantially as shown.

167,794
COFFEE MAKER
Stanley J. Budlane, Palatine, and Robert Dusek, Cicero, Ill., assignors to Dulane, Inc., River Grove, Ill., a corporation of Illinois
Application July 12, 1952, Serial No. 20,597
Term of patent 14 years
(Cl. D44—26)



The ornamental design for a coffee maker, substantially as shown.

167,795
LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application November 15, 1951, Serial No. 17,429
Term of patent 7 years
(Cl. D45—16)



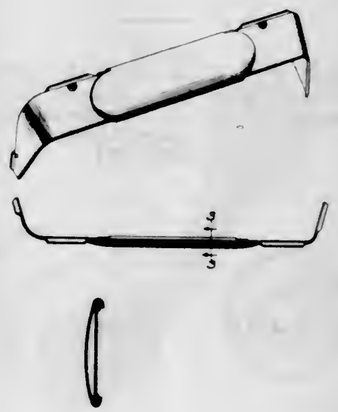
The ornamental design for a link chain for a necklace or similar article, substantially as shown.

167,796
LINK CHAIN FOR A NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application November 15, 1951, Serial No. 17,430
Term of patent 7 years
(Cl. D45—16)



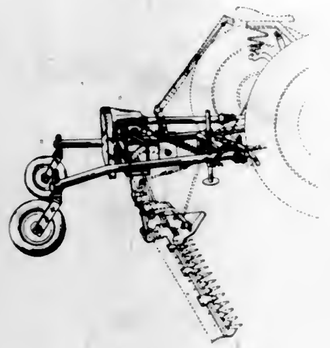
The ornamental design for a link chain for a necklace or similar article, substantially as shown.

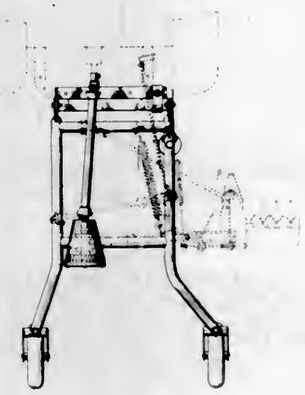
167,797
AUTOMOBILE DOOR VISOR
John P. Groboski, Sheffield, Pa., and Joseph G. Groboski, Chicago, Ill.
Application April 1, 1952, Serial No. 19,153
Term of patent 14 years
(Cl. D14—6)



The ornamental design for an automobile door visor, as shown.

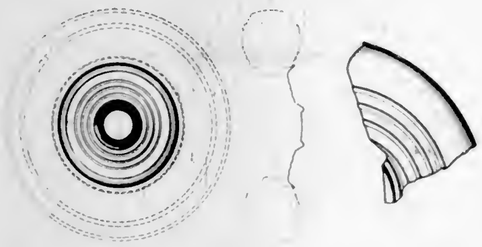
167,798
TRAIL MOWER
George B. Hill, Celina, Ohio, and Melvin J. Happe, New Holland, Pa., assignors to New Holland Machine Division of The Sperry Corporation, New Holland, Pa., a corporation of Delaware
Application February 1, 1951, Serial No. 14,062
Term of patent 7 years
(Cl. D40—1)





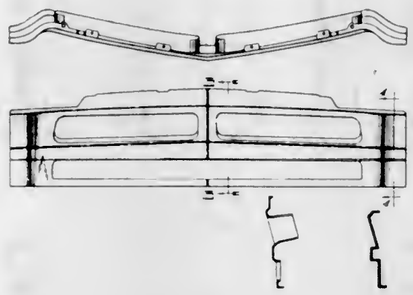
The ornamental design for a trail mower, as shown and described.

167,799
WHEEL COVER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application October 26, 1951, Serial No. 17,129
Term of patent 14 years
(Cl. D14—30)



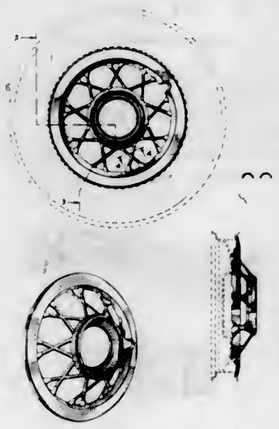
The ornamental design for a wheel cover or similar article, substantially as shown and described.

167,800
AUTOMOBILE GRILLE PANEL
Melvin C. Mawhinney, Southfield Township, Oakland County, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 27, 1951, Serial No. 16,763
Term of patent 7 years
(Cl. D14—18)



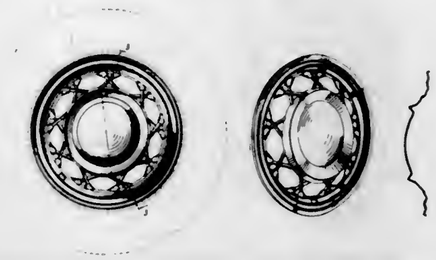
The ornamental design for an automobile grille panel, substantially as shown.

167,801
WHEEL TRIM
Charles A. McLeod, Birmingham, Mich., assignor to A. S. Campbell Company, Boston, Mass., a corporation of Massachusetts
Application March 31, 1952, Serial No. 19,122
Term of patent 14 years
(Cl. D14—30)



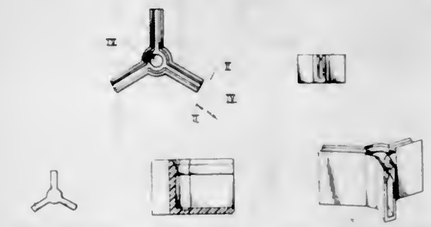
The ornamental design for a wheel trim, substantially as shown and described.

167,802
WHEEL TRIM
Charles A. McLeod, Birmingham, Mich., assignor to A. S. Campbell Company, Boston, Mass., a corporation of Massachusetts
Application March 31, 1952, Serial No. 19,123
Term of patent 14 years
(Cl. D14—30)



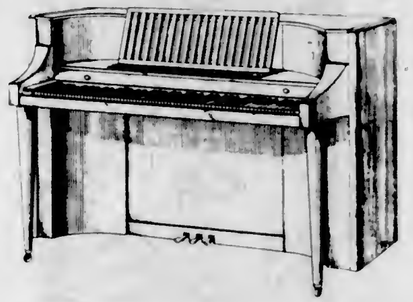
The ornamental design for a wheel trim, substantially as shown and described.

167,803
FISHHOOK SHIELD
Royal A. Miller, Metamora, Ohio
Application February 9, 1952, Serial No. 18,452
Term of patent 14 years
(Cl. D31—4)



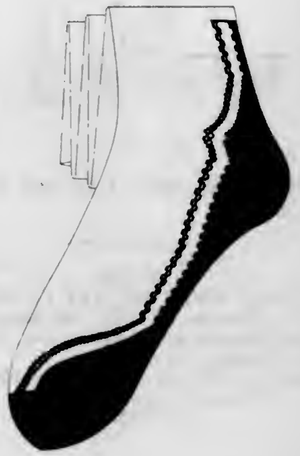
The ornamental design for a fishhook shield, substantially as shown.

167,804
PIANO CASE
William Millington, Grand Rapids, Mich., and Wilbur M. Day, Kenwood, Ohio, assignors to The Baldwin Company, Cincinnati, Ohio, a corporation of Ohio
Application May 22, 1952, Serial No. 19,833
Term of patent 14 years
(Cl. D56—9)



The ornamental design for a piano case, substantially as shown.

167,805
LADY'S STOCKING
Walter Mueller, Clifton, N. J., assignor of one-half to Richard E. Schletter, Philadelphia, Pa.
Application October 5, 1951, Serial No. 16,846
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, substantially as shown and described.

167,806
LADY'S STOCKING
Walter Mueller, Clifton, N. J., assignor of one-half to Richard E. Schletter, Philadelphia, Pa.
Application October 5, 1951, Serial No. 16,848
Term of patent 14 years
(Cl. D47—7)



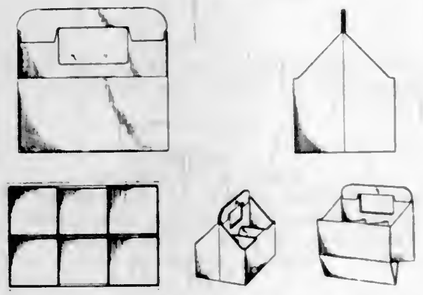
The ornamental design for a lady's stocking, substantially as shown and described.

167,807
PULL TOY
Alfred T. Porter, Portsmouth, Va.
Application April 30, 1952, Serial No. 19,524
Term of patent 14 years
(Cl. D34—15)



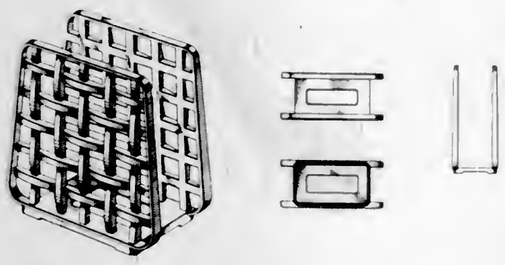
The ornamental design for a pull toy, substantially as shown.

167,808
COLLAPSIBLE BOTTLE CARRIER
William A. Ringler, Wayne, Pa., assignor to The Gardner Board and Carton Co., Middletown, Ohio, a corporation of Ohio
Application March 9, 1950, Serial No. 8,428
Term of patent 14 years
(Cl. D58—26)



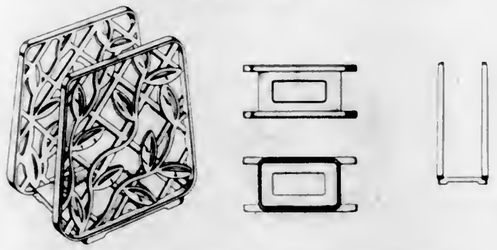
The ornamental design for a collapsible bottle carrier, substantially as shown and described.

167,809
NAPKIN HOLDER OR SIMILAR ARTICLE
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application May 22, 1952, Serial No. 19,824
Term of patent 14 years
(Cl. D44—24)



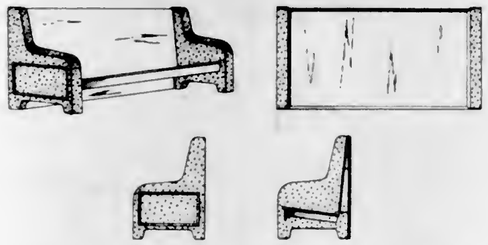
The ornamental design for a napkin holder or similar article, substantially as shown.

167,810
NAPKIN HOLDER OR SIMILAR ARTICLE
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application June 26, 1952, Serial No. 20,366
Term of patent 14 years
(Cl. D44—24)



The ornamental design for a napkin holder or similar article, substantially as shown.

167,811
BENCH
Anthony H. Schaefer, St. Louis, Mo.
Application April 18, 1951, Serial No. 14,886
Term of patent 14 years
(Cl. D15—11)



The ornamental design for a bench, substantially as shown and described.

167,812
TEXTILE FABRIC
Daniel Scher, Brooklyn, N. Y., assignor to Decorative Textiles, Inc., Pawtucket, R. I., a corporation of Rhode Island
Application March 14, 1952, Serial No. 18,881
Term of patent 14 years
(Cl. D92—1)



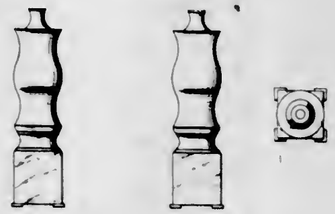
The ornamental design for a textile fabric, as shown and described.

167,813
LADY'S STOCKING
Oscar E. Schletter, Lansdale, Pa.
Application March 18, 1952, Serial No. 18,954
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown.

167,814
BASE FOR TABLE LAMPS
Eugene Schwarz, Alexandria, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois
Application September 22, 1951, Serial No. 16,705
Term of patent 3½ years
(Cl. D48—20)



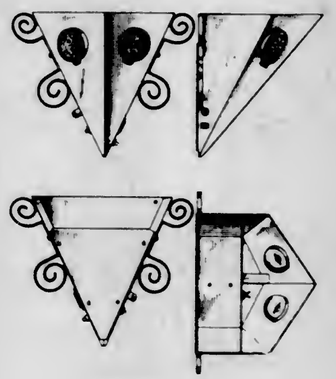
The ornamental design for a base for table lamps, as shown.

167,815
BASE FOR TABLE LAMPS
Eugene Schwarz, Alexandria, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois
Application September 22, 1951, Serial No. 16,706
Term of patent 3½ years
(Cl. D48—20)



The ornamental design for a base for table lamps, as shown.

167,816
LAMP
Albert F. Steeber, Milburn, N. J., assignor to The Portable Light Company, Inc., New York, N. Y., a corporation of New York
Application October 30, 1951, Serial No. 17,169
Term of patent 7 years
(Cl. D48—4)



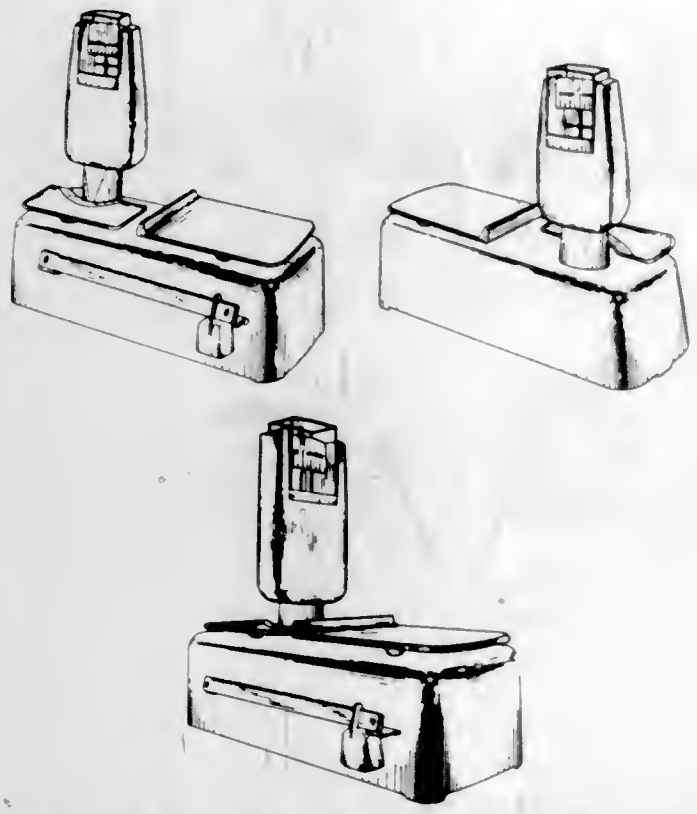
The ornamental design for a lamp, as shown.

167,817
LADY'S ORNAMENTED STOCKING
Ellen Troy, New York, N. Y.
Application April 5, 1952, Serial No. 19,198
Term of patent 3½ years
(Cl. D47—7)



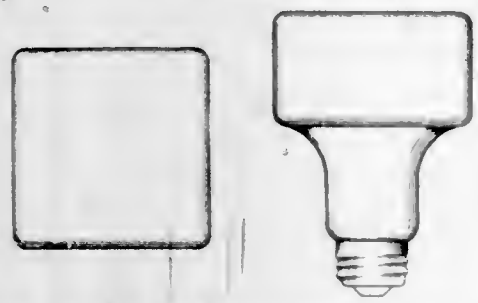
The ornamental design for a lady's ornamented stocking, substantially as shown.

167,818
WEIGHING SCALE
Mark A. Weckerly, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application March 3, 1951, Serial No. 14,373
Term of patent 14 years
(Cl. D52—10)



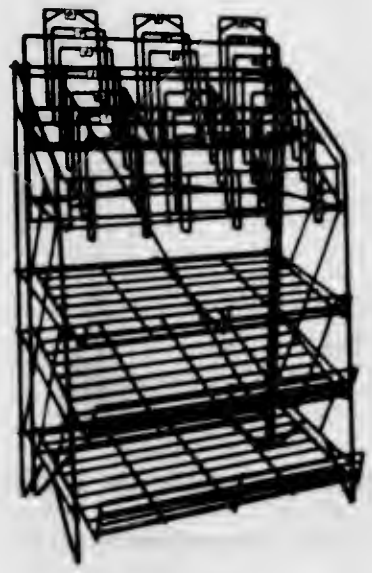
The ornamental design for a weighing scale, as shown.

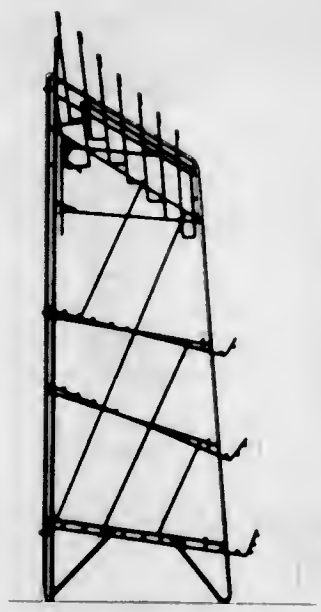
167,819
ELECTRIC BULB
Anna Yanks and Matthew Yanks, Philadelphia, Pa.
Application May 16, 1952, Serial No. 19,732
Term of patent 3½ years
(Cl. D26—8)



The ornamental design for an electric bulb, as shown.

167,820
MERCHANDISE DISPLAY RACK
Joe Zel, Cleveland Heights, and Robert W. Latimer, Bay Village, Ohio, assignors to American Greetings Corporation, a corporation of Ohio
Application May 8, 1951, Serial No. 15,094
Term of patent 14 years
(Cl. D80—10)





The ornamental design for a merchandise display rack, as shown.

Official Gazette

UNITED STATES PATENT OFFICE

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Ab Walla Gard, Stockholm, Sweden. Cheese. Serial No. 595,524, Sept. 30. Class 46.

Adapto Wax Findings, Inc., New York, N. Y. Wax patterns. Serial No. 612,225, Sept. 30. Class 26.

Air Seal Corporation, Flint, Mich. Building insulation materials. Serial No. 599,857, Sept. 30. Class 12.

Allied Distributors, Inc., Gardena, Calif. Feed for chinchillas. Serial No. 573,069, Sept. 30. Class 46.

Allis, Louis, Company, The, Milwaukee, Wis. Electric motors, generators, alternators, etc. Serial No. 619,693, Sept. 30. Class 21.

Alprodco, Inc., Mineral Wells, Tex. Farm and ranch gates, stockyard gates, etc. Serial No. 605,290, Sept. 30. Class 12.

American Air Filter Company, Inc., Louisville, Ky. Maintenance tanks. Serial No. 588,615, Sept. 30. Class 2.

American Biltrite Rubber Co., Inc., Trenton, N. J. Rubber flooring. Serial No. 623,388, Sept. 30. Class 12.

American Cyanamid Company, New York, N. Y. Anticonvulsant. Serial No. 621,493, Sept. 30. Class 18.

American Paper Goods Company, The, Kensington, Conn. Paper and glassine bags, paper and glassine merchandise envelopes, etc. Serial No. 609,584, Sept. 30. Class 2.

Amole, Incorporated, Tipp City, Ohio. Cream shampoo and liquid shampoo. Serial No. 620,991, Sept. 30. Class 52.

Armand Company, The, Des Moines, Iowa. Face cream. Serial No. 606,962, Sept. 30. Class 51.

Armour and Company, Chicago, Ill. Synthetic resin. Serial No. 603,103, Sept. 30. Class 6.

Armour and Company, Chicago, Ill. Soap. Serial No. 616,687, Sept. 30. Class 52.

Armour and Company, doing business under the trade style Armour Laboratories, Chicago, Ill. Anti-nausea preparation. Serial No. 627,242, Sept. 30. Class 18.

Armour Laboratories: *See*—
Armour and Company.

Artisan Novelty Co., Gardena, Calif. Dolls. Serial No. 593,853, Sept. 30. Class 22.

Associated Merchandising Corporation, The, New York, N. Y. Garden hose. Serial No. 628,032, Sept. 30. Class 35.

Atlas Powder Company, Wilmington, Del. Decolorizing carbon, and absorptive carbons and carbonaceous materials. Serial No. 610,403, Sept. 30. Class 6.

Atlas Supply Company, Newark, N. J. Storage batteries. Serial No. 626,849, Sept. 30. Class 21.

Audio Devices, Inc., New York, N. Y. Magnetic sound recording tape. Serial Nos. 592,689–90, Sept. 30. Class 21.

Automatic Manufacturing Corporation, Newark, N. J. Electrical condensers. Serial No. 615,206, Sept. 30. Class 21.

Ayerst, McKenna & Harrison Limited, New York, N. Y. Conjugated estrogens and estrone. Serial No. 626,488, Sept. 30. Class 18.

B & T Metals Company, The, Columbus, Ohio. Preformed metallic sink and lavatory frames. Serial No. 601,707, Sept. 30. Class 12.

Band-It Company, Denver, Colo. Metal strip. Serial No. 552,412, Sept. 30. Class 14.

Baray Pharmacal Corporation, Brooklyn, N. Y. Tablets for making medicinal mouth wash solution. Serial No. 612,295, Sept. 30. Class 18.

Baur, O. P., Confectionery Company, The, Denver, Colo. Candies, pies, salted nuts, etc. Serial No. 576,899, Sept. 30. Class 46.

Beautiful Bryans, Inc.: *See*—
Bryan Full Fashioned Mills.

Better Maid Products Co.: *See*—
Donelson and Poston.

Block Shoe Stores, Incorporated, Seattle, Wash. Women's and girls' hosiery. Serial No. 613,555, Sept. 30. Class 39.

Bloc-Products Co.: *See*—
Gantner, Emil.

Blue Diamond Corporation, Los Angeles, Calif. Liquid admixture for concrete. Serial No. 621,859, Sept. 30. Class 6.

Bourjois, Inc., New York, N. Y. Perfume and eau de cologne. Serial No. 626,020, Sept. 30. Class 51.

Brady, Wilson M., Catonsville, Md. Jeweled clasp. Serial No. 605,577, Sept. 30. Class 28.

Branson, John C. S., Birmingham, England. Loud-speaker apparatus. Serial No. 618,441, Sept. 30. Class 21.

Bready Tractor and Implement Company, The, Solon, Ohio. Hand-operable, motor-driven snow plow. Serial No. 623,332, Sept. 30. Class 23.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin. Serial No. 626,603, Sept. 30. Class 18.

Broker, Lea, Brooklyn, N. Y. Women's hosiery. Serial No. 620,189, Sept. 30. Class 39.

Brumberger Co. Inc., Brooklyn, N. Y. Stereoscopic viewers and accessories. Serial Nos. 617,907–8, Sept. 30. Class 26.

Bryan Full Fashioned Mills, now by merger and change of name, Beautiful Bryans, Inc., Chattanooga, Tenn. Hosiery. Serial No. 621,860, Sept. 30. Class 39.

Buch Manufacturing Company, Elizabethtown, Pa. Wheelbarrows. Serial No. 612,303, Sept. 30. Class 19.

Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. Typewriter ribbons. Serial No. 608,742, Sept. 30. Class 11.

Buckeye Ribbon & Carbon Co., The, Cleveland, Ohio. Typewriter ribbons and carbon paper. Serial No. 608,745, Sept. 30. Class 11.

Burke & James, Inc., Chicago, Ill. Cameras. Serial No. 604,562, Sept. 30. Class 26.

Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. Serial No. 623,235, Sept. 30. Class 39.

Cabell, William D., Chappaqua, N. Y. Publication. Serial No. 625,330, Sept. 30. Class 38.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. Serial No. 623,399, Sept. 30. Class 6.

Camera Lift Car Company, West Los Angeles, Calif. Apparatus in the nature of a bracket with an adjustable platform thereon. Serial No. 617,834, Sept. 30. Class 23.

Campomat Rubber Co., Inc., The, Brooklyn, N. Y. Rubber link mats. Serial No. 621,864, Sept. 30. Class 50.

Cargill, Incorporated, assignee: *See*—
Falk & Company.

Carnrick, G. W., Co., Newark, N. J. Steroid. Serial No. 621,941, Sept. 30. Class 18.

Carnrick, G. W., Co., Newark, N. J. Preparation of a steriod. Serial No. 621,942, Sept. 30. Class 18.

Casco Products Corporation, Bridgeport, Conn. Hand-held feed-through rheostat electric switches. Serial No. 611,471, Sept. 30. Class 21.

Cathodeon Limited, Cambridge, England. Television pick-up tubes, tubes for converting stationary or moving pictures into electric signals, etc. Serial No. 614,751, Sept. 30. Class 21.

Celanese Corporation of America, New York, N. Y. Textile fabrics. Serial No. 629,838, Sept. 30. Class 42.

Chilcott Laboratories, Inc., Morris Plains, N. J. Product for alleviation of bronchial asthma. Serial No. 626,368, Sept. 30. Class 18.

Chris Cross Products: *See*—
Christiansen, George H.

Christiansen, George H., doing business as Chris Cross Products, Newark, N. J. Cocktail sauce and tartar sauce. Serial No. 627,495, Sept. 30. Class 46.

Chrysler Corporation, Highland Park, Mich. Automobiles and their structural parts. Serial Nos. 611,402–3, Sept. 30. Class 19.

Ciag Aktiengesellschaft, Schaffhausen, Switzerland. Antispasmodic preparation. Serial No. 582,274, Sept. 30. Class 18.

Claronex Products, Inc., Brooklyn, N. Y. Paints. Serial No. 620,195, Sept. 30. Class 16.

Clayson, Violet, doing business as The Figaro Co., Burbank, Calif. Hair conditioner and hair wave set. Serial No. 621,388, Sept. 30. Class 51.

Clayton & Lambert Manufacturing Company, Louisville, Ky. Panic exit devices. Serial No. 615,625, Sept. 30. Class 25.

Clayton & Lambert Manufacturing Company, Louisville, Ky. Panic exit devices. Serial No. 615,882, Sept. 30. Class 25.

Coddington, E. D., Manufacturing Company, Milwaukee, Wis. Machines for automatic filling of bags. Serial No. 600,417, Sept. 30. Class 26.

Cochler, Henry, Co., Inc., New York, N. Y. Ladies' and men's wrist watches, pocket watches, and household clocks, etc. Serial No. 626,150, Sept. 30. Class 27.

Commercial Laboratories: *See*—
Ferguson, Merlen J.

Congoleum-Nairn, Inc., Kearny, N. J. Floor and wall coverings. Serial No. 565,315, Sept. 30. Class 20.

Coombs Luma-Rim Company: *See*—
Coombs, Robert S.

Coombs, Robert S., doing business as Coombs Luma-Rim Company, San Francisco, assignor to Luma-Rim Corporation, Oakland, Calif. Safety device for automobiles. Serial No. 591,668, Sept. 30. Class 19.

Cooper, William, & Nephews, Incorporated, Chicago, Ill. Insecticides. Serial No. 617,233, Sept. 30. Class 6.

Corhart Refractories Company, Louisville, Ky. Building cements and ramming mixes. Serial No. 610,510, Sept. 30. Class 12.

Curtis Companies Incorporated, Clinton, Iowa. Sashes, doors, blinds of the shutter type, etc. Serial No. 543,796, Sept. 30. Class 12.

Cutter Laboratories, Berkeley, Calif. Medicinal preparation. Serial No. 628,615, Sept. 30. Class 18.

Dairyette, Inc., Springfield, Ill. Prefabricated buildings and parts thereof. Serial No. 615,211, Sept. 30. Class 12.

Davis Plywood Corporation, The, Cleveland, Ohio. Plywood. Serial No. 597,669, Sept. 30. Class 12.

Daystrom, Incorporated, Elizabeth, N. J., Electrical recording and reproducing apparatus. Serial No. 626,445, Sept. 30. Class 21.

Dayton Rubber Company, The, Dayton, Ohio. Vehicle storage batteries. Serial No. 626,659, Sept. 30. Class 21.

Dimitri, Frank P., New Orleans, La. Liniment. Serial No. 626,200, Sept. 30. Class 18.

Diversified Sales Corporation, Chicago, Ill. Cleaner and penetrant. Serial No. 606,972, Sept. 30. Class 52.

Dixie Cup Company, Easton, Pa. Paper cups and paper cartons. Serial No. 612,368, Sept. 30. Class 2.

Dome Chemicals, Inc., New York, N. Y. Vitamin pills. Serial No. 616,595, Sept. 30. Class 18.

Donelson and Poston, also doing business as Better Maid Products Co., Memphis, Tenn. Canned fruits, canned vegetables, canned fish, etc. Serial No. 621,601, Sept. 30. Class 46.

Donovan Enterprises, Saugatuck, Conn. Bibs for children. Serial No. 622,151, Sept. 30. Class 39.

Doppelt, Charles, & Co., Inc., Chicago, Ill. Luggage. Serial No. 615,822, Sept. 30. Class 3.

Dover Engineering Works Limited, The, Dover, Kent, England. Manhole covers, manhole frames, etc. Serial No. 601,392, Sept. 30. Class 12.

86 Distributing Company, Sherman Oaks, Calif. Digestive analgesic absorbent, antacid. Serial No. 622,645, Sept. 30. Class 18.

Ellman, M., & Co., Inc., Atlanta, Ga. Jewelry. Serial No. 599,819, Sept. 30. Class 28.

Elmorene Company: *See*—
Miller and Company.

Ethcraft Chemical Company, Jacksonville, Fla. Medicine used as an antacid. Serial No. 627,678, Sept. 30. Class 18.

Evertaut Limited, Birmingham, England. Steel furniture. Serial No. 543,802, Sept. 30. Class 32.

Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Chest respirators, cuirasses and air pumps for chest respirators, etc. Serial No. 611,415, Sept. 30. Class 44.

Falk & Company, Pittsburgh, Pa., assignor to Cargill, Incorporated. Soya bean oil. Serial No. 605,017, Sept. 30. Class 6.

Falk & Company, Pittsburgh, Pa., assignor to Cargill, Incorporated. Fish oil. Serial No. 605,018, Sept. 30. Class 6.

Famous Bathrobe Co., Inc., New York, N. Y. Children's bibs. Serial No. 622,531, Sept. 30. Class 39.

Farm Minerals Company, Inc., The, Indianapolis, Ind. Dog food. Serial No. 568,144, Sept. 30. Class 46.

Farquhar, A. B., Company, York, Pa. Manure spreaders. Serial No. 612,201, Sept. 30. Class 23.

Feder, Jack, Forest Hills, N. Y. Sewing machine and sewing machine parts. Serial No. 625,978, Sept. 30. Class 23.

Federal Electric Products Company, Newark, N. J. Circuit breakers and distribution panel boards. Serial No. 593,479, Sept. 30. Class 21.

Federated Department Stores, Inc., Cincinnati, Ohio. Bracelets, earrings, necklaces, etc. Serial No. 624,822, Sept. 30. Class 28.

Federated Department Stores, Inc., Cincinnati, Ohio. China and earthenware plates, saucers, cups, etc. Serial No. 624,823, Sept. 30. Class 30.

Ferguson, Merlen J., doing business as Commercial Laboratories, Owatonna, Minn. Liquid soap and detergent composition. Serial No. 623,408, Sept. 30. Class 52.

Flat Metal Manufacturing Company, Franklin Park, Ill. Shower doors. Serial No. 611,509, Sept. 30. Class 12.

Flat Metal Manufacturing Company, Franklin Park, Ill. Doors. Serial No. 615,448, Sept. 30. Class 12.

Figaro Co., The: *See*—
Clayson, Violet.

Filippone, B., and Co., Passaic, N. J. Canned peas, canned tuna fish, canned tomatoes, etc. Serial No. 621,621, Sept. 30. Class 46.

Fitts, Frank, Wallingford, Pa. Liquid sun-filtering skin coating. Serial No. 614,246, Sept. 30. Class 51.

Flintkote Company, The, New York, N. Y. Roofing shingles. Serial No. 626,319, Sept. 30. Class 12.

Foley & Company, Chicago, Ill. Throat lozenges. Serial No. 606,764, Sept. 30. Class 18.

Folsum Co., The, Dallas, Tex. Gas burning space heaters. Serial No. 624,452, Sept. 30. Class 34.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial Nos. 629,784–8, Sept. 30. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 629,790, Sept. 30. Class 42.

Gainsley, S. Harry, doing business as Nofend Co., Minneapolis, Minn. Mouth washes and body deodorants. Serial No. 617,871, Sept. 30. Class 51.

Gaiter Products Company, Chicago, Ill. Electric razors. Serial No. 591,079, Sept. 30. Class 23.

Gantner, Emil, doing business as Bloc-Products Co., Zurich, Switzerland. Products to be applied to the face before and after shaving. Serial No. 614,875, Sept. 30. Class 51.

Gemex Company, Union, N. J. Bracelets and watch bracelets and watch straps. Serial No. 625,797, Sept. 30. Class 28.

General Clay Products Company, The, Columbus, Ohio. Glazed and unglazed tile. Serial No. 576,260, Sept. 30. Class 12.

General Hospital Supply Service, Inc., New York, N. Y. Automatic oxygen tents, catheters, crutches, etc. Serial No. 614,936, Sept. 30. Class 44.

Givaudan-Delawanna, Inc., New York, N. Y. Liquid blends of odoriferous materials. Serial No. 629,606, Sept. 30. Class 6.

Grove Laboratories, Inc., The, St. Louis, Mo. Healing and antiseptic oil. Serial No. 626,674, Sept. 30. Class 18.

Haas Miller Corporation, Philadelphia, Pa. Metal detergent. Serial No. 625,595, Sept. 30. Class 52.

Haas Miller Corporation, Philadelphia, Pa. Cleaners. Serial No. 625,598, Sept. 30. Class 52.

Hauserman, E. F., Company, The, Cleveland, Ohio. Nonmetallic composition board panel plates, movable partitions, etc. Serial No. 615,774, Sept. 30. Class 12.

Hollymade Hardware Mfg. Co., Los Angeles, Calif. Builders' hardware. Serial No. 625,069, Sept. 30. Class 25.

Hy-Pure Laboratories, Inc., Cincinnati, Ohio. Membranous and rubber prophylactic articles. Serial No. 614,663, Sept. 30. Class 44.

Ideal Toy Corporation, Hollis, N. Y. Dolls. Serial No. 621,103, Sept. 30. Class 22.

Ilford, Limited, Ilford, England. Photographic chemicals. Serial No. 625,355, Sept. 30. Class 6.

Illinois Tool Works, Chicago, Ill. Thread cutting screws. Serial No. 627,820, Sept. 30. Class 13.

Imperial Chemical Industries Limited, London and Millbank, London, England. Synthetic fibres, bitumen, synthetic fur, etc. Serial No. 610,320, Sept. 30. Class 1.

International Silver Company, The, Meriden, Conn. Sterling silver tableware. Serial No. 623,962, Sept. 30. Class 28.

Jacksonville Milling Co., Jacksonville, Fla. Table syrup. Serial No. 625,807, Sept. 30. Class 46.

Jacobs, David, Lincoln, Nebr. Costume jewelry. Serial No. 625,313, Sept. 30. Class 28.

Jewel Tea Co, Inc., Barrington, Ill. Detergent cleaning agent. Serial No. 628,277, Sept. 30. Class 52.

Johns-Manville Corporation, New York, N. Y. Colored facing sheets. Serial No. 609,243, Sept. 30. Class 12.

Johnson & Johnson, New Brunswick N. J. Absorbent and impregnated absorbent cellulose for dental, medical, surgical and veterinary use. Serial No. 568,633, Sept. 30. Class 44.

K & M Machine Company, Toledo, Ohio. Electric vacuum cleaners. Serial No. 625,675, Sept. 30. Class 21.

Kaiser-Frazer Corporation, Willow Run, Mich. Automotive engines. Serial No. 591,685, Sept. 30. Class 23.

Keasbey & Mattison Company, Ambler, Pa. Asbestos-composition building products. Serial No. 617,404, Sept. 30. Class 12.

Keil Lock Co., Inc., Charlestown, N. H. Builder's hardware. Serial No. 501,459, Sept. 30. Class 13.

Kenedy Building Products: *See*—
Kenedy, Frank J.

Kenedy, Frank J., doing business under the name and style of Kenedy Building Products, Plymouth, Mich. Building blocks. Serial No. 625,984, Sept. 30. Class 12.

Kerite Company, The, Seymour, Conn., and New York, N. Y. Insulated wire and cables. Serial No. 613,410, Sept. 30. Class 21.

Kimbrough, E. W., doing business as Nampa Cider & Vinegar Company, Nampa, Idaho. Vinegar and apple juice. Serial No. 613,646, Sept. 30. Class 46.

Kingston Products Corporation, Kokomo, Ind. Roller skates. Serial No. 620,510, Sept. 30. Class 22.

Kipp, Samuel M., Pasadena, Calif. Hydropneumatic accumulators and parts thereof, and pneumatic tools. Serial No. 520,711, Sept. 30. Class 23.

Klau, J., Company: *See*—
Klau, Justin.

Klau, Justin, doing business as J. Klau Company, New York, N. Y. Wallets. Serial No. 608,316, Sept. 30. Class 3.

Kleinert, I. B., Rubber Company, New York, N. Y. Infants' garments. Serial Nos. 621,625–6, Sept. 30. Class 39.

Kleinert, I. B., Rubber Company, New York, N. Y. Infants' garments. Serial No. 622,263, Sept. 30. Class 39.

Kuppers, Herman J., Atlanta, Ga. Pottery vessels. Serial No. 610,366, Sept. 30. Class 30.

Lammertz, Leo. Aachen, Germany. Sewing machine needles, embroidering machine needles, bookbinding machine needles, etc. Serial No. 606,404, Sept. 30. Class 23.

Langhaus, Morris, doing business as Sun Ray Hair Preparation Company, New York, N. Y. Scissors, shears, pen knives, etc. Serial No. 603,742, Sept. 30. Class 23.

Lejon, Freres, Inc., Philadelphia, Pa. Skin cream. Serial No. 625,987, Sept. 30. Class 51.

Lempco Products, Inc., Bedford, Ohio. Dollies. Serial No. 615,233, Sept. 30. Class 19.

London Film Productions, Inc., New York, N. Y. Series of motion picture photoplays. Serial No. 611,288, Sept. 30. Class 26.

Lone Star Olds Cadillac Co., Dallas, Tex. Automobiles, trucks, structural parts and accessories. Serial No. 586,927, Sept. 30. Class 19.

Love, Joseph, Inc., New York, N. Y. Children's dresses, blouses and skirts. Serial No. 625,428, Sept. 30. Class 39.

Luma-Rim Corporation: *See*—
Coombs, Robert S.

M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass. Women's hosiery. Serial No. 617,763, Sept. 30. Class 39.

M and M Wood Working Company, Portland, Oreg. Packaged plywood. Serial No. 583,046, Sept. 30. Class 12.

MacGregor, May, New York, N. Y., assignor to Rexall Drug Company, Los Angeles, Calif. All purpose deep cream, astringent lotion, compressed face powder, etc. Serial No. 609,597, Sept. 30. Class 51.

Magnatex Limited, Harlington, England. Motor vehicle accessories. Serial No. 600,496, Sept. 30. Class 19.

Markwell Manufacturing Co., Inc., New York, N. Y. Staples. Serial No. 627,588, Sept. 30. Class 13.

Mayer, Oscar, & Co., Inc., Chicago, Ill. Bacon. Serial No. 605,910, Sept. 30. Class 46.

McDonald, James D., doing business under the fictitious name and style of McDonald Manufacturing Company, Los Angeles, Calif. Electric switch plates. Serial No. 615,650, Sept. 30. Class 21.

McDonald Manufacturing Company: *See*—
McDonald, James D.

McGuffie, W. S., & Company, Cleveland, Ohio. Putty and glazing compound. Serial No. 616,605, Sept. 30. Class 12.

McQuay, Inc., Minneapolis, Minn. Individually controlled air conditioning units. Serial No. 610,447, Sept. 30. Class 34.

Mealpack Corporation, Evanston, Ill. Metallic boxes. Serial No. 615,563, Sept. 30. Class 2.

Mei Fung Company, San Francisco, Calif. Canned tuna fish. Serial No. 627,346, Sept. 30. Class 46.

Merit National Shrinking Works, Inc., New York N. Y. Textile sponging and shrinking. Serial No. 607,089, Sept 30. Class 106.

Meyer, Joseph H., Bros., Brooklyn, N. Y. Pearl jewelry. Serial No. 595,974, Sept. 30. Class 28.

Mill Supplies, Inc., Orlando, Fla. Belting. Serial No. 627,591, Sept. 30. Class 35.

Miller and Company, doing business under the style name of Elmorene Company, Chicago, Ill. Pharmaceutical preparation. Serial No. 626,212, Sept. 30. Class 18.

Miller, N. S., doing business under the trade name Peninsular Foods, Jacksonville, Fla. Frozen shrimp, frozen oysters, frozen scallops, etc. Serial No. 617,548, Sept. 30. Class 46.

Millers Forge Mfg. Corp., New York, N. Y. Manicuring nail clippers. Serial No. 624,696, Sept. 30. Class 44.

Millville Manufacturing Company, The Philadelphia, Pa. Piece goods. Serial Nos. 629,808–09, Sept. 30. Class 42.

Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Safety instruments having a thermostatic element. Serial No. 527,769, Sept. 30. Class 26.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasives. Serial No. 609,657, Sept. 30. Class 4.

Miron Mills, Incorporated, Clinton, Mass. Woolen piece goods. Serial Nos. 630,197–8, Sept. 30. Class 42.

Moffet Laboratories, Inc., Dayton, Ohio. Preparation for the treatment of anemia. Serial No. 621,630, Sept. 30. Class 18.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resin materials. Serial No. 619,164, Sept 30. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resin materials. Serial No. 622,448, Sept. 30. Class 6.

Montag Brothers, Inc., Atlanta, Ga. Looseleaf fillers. Serial No. 616,965, Sept. 30. Class 37.

Morrison Company: *See*—
Spangler, Ralf M.

Morton Salt Company, assignee: *See*—
Ruggles & Rademaker Salt Company.

Nampa Cider & Vinegar Company: *See*—
Kimbrough, E. W.

Nancy Garment Co., Kent, Wash. Babies' bibs. Serial No. 575,661, Sept. 30. Class 39.

Nathan Straus-Duparquet, Inc., New York, N. Y. Basting and serving spoons, ladles, steak knives, etc. Serial No. 603,607, Sept. 30 Class 23.

National Automotive Parts Association, Detroit, Mich. Brake lining, clutch facing, pump packing, etc. Serial No. 591,505, Sept. 30. Class 35.

National Package Drugs, Inc., St. Louis, Mo. Medicinal preparations. Serial No. 617,456, Sept. 30. Class 18.

Nells, J., Lumber Company, Libby, Mont. Creosote treated poles. Serial No. 615,018, Sept. 30. Class 12.

Newberry, J. J., Co., New York, N. Y. Men's dress shirts and underwear for men and boys. Serial No. 621,414, Sept. 30. Class 39.

Nofend Co.: *See*—
Gainsley, S. Harry.

North American Battery Co., Omaha, Nebr. Electrical storage batteries. Serial No. 618,756, Sept. 30. Class 21.

Oliver Machinery Company, Grand Rapids, Mich. Machinery. Serial No. 563,984, Sept. 30. Class 23.

Oran Company, Columbus, Ohio. Floor furnaces. Serial No. 581,887, Sept. 30. Class 34.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Mats, bats and sheets of fibrous glass. Serial No. 616,508, Sept. 30. Class 1.

Pacific Moulded Products Co., Los Angeles, Calif. Thermosetting elastomer. Serial No. 623,981, Sept. 30. Class 6.

Paine & Williams Company, The, Cleveland, Ohio. Automobile floor mats. Serial No. 537,230, Sept. 30. Class 19.

Paley & Thomas, Inc., New York, N. Y. Cultured pearls. Serial No. 619,847, Sept. 30. Class 28.

Pan American Metal Products Company, Inc., Miami, Fla. Operators for adjusting the pivoted panes of windows known as awning type windows. Serial No. 585,765, Sept. 30. Class 13.

Parfumerie de Raymond, New York, N. Y. Hair brushes. Serial No. 613,022, Sept. 30. Class 29.

Peerless Chemical Company, The: *See*—
Stevens, Harry R.

Peninsular Foods: *See*—
Miller, N. S.

Pep'mint Tooth Paste Co.: *See*—
Susslin, Charles A.

Pepperell Manufacturing Company, Boston, Mass. Bed sheets. Serial No. 602,711, Sept. 30. Class 42.

Philadelphia Gear Works, Inc., Philadelphia, Pa. Power driven reduction gear units. Serial No. 616,334, Sept. 30. Class 23.

Pincus, Irving, & Brothers, Inc., Philadelphia, Pa. Men's and boys' clothing. Serial No. 620,858, Sept. 30. Class 39.

Plasti-Stitch, Inc., New York, N. Y. Precut heat seal fabric strips and patches. Serial No. 624,358, Sept. 30. Class 40.

Popelowsky, Israel A., trading as Pop's Chemical Laboratory, Brooklyn, N. Y. Hair coloring. Serial No. 621,478, Sept. 30. Class 51.

Pop's Chemical Laboratory: *See*—
Popelowsky, Israel A.

Post Printing and Publishing Company, The, Denver, Colo. Weekly magazine. Serial No. 611,915, Sept. 30. Class 38.

Precise Products Company, Racine, Wis. Grinding and milling tools; arbors; milling cutters; etc. Serial No. 576,553, Sept. 30. Class 23.

Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser and detergent. Serial No. 625,437, Sept. 30. Class 52.

Products Research Company, Glendale, Calif. Sealing compositions, cements, puttles, and caulking compounds. Serial No. 576,135, Sept. 30. Class 12.

Protex Products Company, Inc., Jersey City, N. J. Garment bags, shoe bags, laundry bags, etc. Serial No. 610,582, Sept 30. Class 2.

Queen Mode Plastic Corp., New York, N. Y. Raincoats, overshoes and rain hats. Serial No. 622,171, Sept. 30. Class 39.

Ramos Drug Company: *See*—
Ramos, William.

Ramos, William, doing business as Ramos Drug Company, Reno, Nev. Ice cream. Serial No. 625,629, Sept. 30. Class 46.

Rayco Manufacturing Co., Paterson, N. J. Automobile seat covers. Serial No. 611,451, Sept. 30. Class 19.

Regal, John S., & Son, Inc., Cambridge, Mass. Shovels, spades, scoops, etc. Serial No. 617,162, Sept. 30. Class 23.

Reichhold Chemicals, Inc., Detroit, Mich. Phenolic synthetic resins. Serial No. 625,867, Sept. 30. Class 6.

Rexall Drug Company, assignee: *See*—
MacGregor, May.

Riffle, John A., doing business as John Riffle Hatcheries, Shenandoah, Iowa. Baby chicks. Serial No. 575,927, Sept. 30. Class 1.

Riffle, John, Hatcheries: *See*—
Riffle, John A.

Ritter Company, Inc., Rochester, N. Y. Air compressors. Serial No. 620,525, Sept. 30. Class 23.

Round Oak Company, Inc of Indiana, Dowagiac, Mich. Hot air furnaces, oil burners and blowers therefor. Serial No. 624,158, Sept. 30. Class 34.

Rubel & Company Decorative Accessories, Inc., New York, N. Y. Serving trays. Serial No. 619,262, Sept. 30 Class 30.

Rubinstein, Helena, Inc., New York, N. Y. Stockings, scarves, gloves, etc. Serial No. 614,721, Sept. 30. Class 39.

Ruggles & Rademaker Salt Company, Manistee, Mich., assignor to Morton Salt Company, Chicago, Ill. Salt. Serial No. 540,719, Sept. 30. Class 46.

S. A. Felice Bisleri & Cia, Milan, Italy. Medicinal bitters and stomachic tonics. Serial No. 617,461, Sept. 30. Class 18.

S. O. S. Company, The, Chicago, Ill. Cleaning and scraping pads. Serial No. 621,424, Sept. 30. Class 4.

Sage Laboratories, Inc., New York, N. Y. Hand lotion and toilet water. Serial No. 626,050, Sept. 30. Class 51.

Sage Laboratories, Inc., New York, N. Y. Hair tonic and after shaving lotion. Serial No. 626,051, Sept. 30. Class 51.

Sautter, Karl H., Chicago, Ill. Laxative preparation. Serial No. 621,787, Sept. 30. Class 18.

Schmid, Julius, Inc., New York, N. Y. Prophylactic rubber articles. Serial No. 617,166, Sept. 30. Class 44.

Schönefeld, René, The Hague, Netherlands. Incense. Serial No. 620,746, Sept. 30. Class 6.

Scientific Oil Compounding Company, Inc., Chicago, Ill. Fungicidal material. Serial No. 618,763, Sept. 30. Class 6.

Scott, O. M., & Sons Company, Marysville, Ohio. Grass seed. Serial No. 623,160, Sept. 30. Class 1.

Screentite Door Co., Oakland, Calif. Screen doors. Serial No. 619,147, Sept. 30. Class 12.

Searle, G. D., & Co., Skokie, Ill. Synthetic hormone preparation. Serial No. 626,643, Sept. 30. Class 18.

Seawol Sewing Supplies, Los Angeles, Calif. Sewing machines. Serial No. 613,242. Class 23.

Sewall, E. B., Manufacturing Co., St. Paul, Minn. Cut tooth gears, sprockets and racks for all types of machinery. Serial No. 603,599, Sept. 30. Class 23.

Shalansky, Philip, & Sons, Inc., New York, N. Y. Textile fabrics. Serial No. 625,300, Sept. 30. Class 42.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparation for use in the treatment of gastrointestinal disorders. Serial No. 626,542, Sept. 30. Class 18.

Shaw-Rogers Company, The, Akron, Ohio. Watches. Serial No. 623,736, Sept. 30. Class 27.

Signalight Sales & Service, Dallas, Tex. Lightweight aggregate. Serial No. 616,876, Sept. 30. Class 12.

Simon's Co., Inc., The, New York, N. Y. Women's hosiery. Serial No. 623,084, Sept. 30. Class 39.

Singer Manufacturing Company, The, Elizabeth, N. J. Cord belts, composition belts, and power transmission belting. Serial No. 628,583, Sept. 30. Class 35.

Solar Aircraft Company, San Diego, Calif. Coatings of ceramic. Serial No. 620,973–4, Sept. 30. Class 12.

Spangler, Ralf M., doing business under the fictitious trade name of Morrison Company, Hollywood, Calif. Vitamin-mineral-tablets. Serial No. 617,891, Sept. 30. Class 18.

Speidel Corporation, Providence, R. I. Watch bracelets. Serial No. 625,828, Sept. 30. Class 28.

Spiegel, Inc., Chicago, Ill. Motorcycles. Serial No. 617,097, Sept. 30. Class 19.

Sponge Rubber Products Company, The, Shelton, Conn. Gaskets. Serial No. 627,650, Sept. 30. Class 35.

Springfield Electrical Specialties, Inc., New York, N. Y. Electrical condensers, capacitors and filters. Serial No. 615,296, Sept. 30. Class 21.

Squibb, E. R., & Sons, New York, N. Y. Diagnostic indicator preparation. Serial No. 619,654, Sept. 30. Class 18.

Srepco, Inc., Dayton, Ohio. Radio, electrical and electronic equipment. Serial No. 576,664, Sept. 30. Class 21.

Standard Pressed Steel Co., Jenkintown, Pa. Shoe equipment. Serial No. 597,472, Sept. 30. Class 23.

Stanley Drug Products, Inc., Portland, Oreg. Volatile crystallized liniment and liniments in general. Serial No. 576,235, Sept. 30. Class 18.

Stanley Drug Products, Inc., Portland, Oreg. Preparation containing vitamins. Serial No. 616,454, Sept. 30. Class 18.

Stevens, Harry R., trading as The Peerless Chemical Company, Baltimore, Md. Cleaning and washing powder. Serial No. 591,811, Sept. 30. Class 52.

Stocker Manufacturing Company, Netcong, N. J. Wrapping paper. Serial No. 624,979, Sept. 30. Class 37.

Sun Ray Hair Preparation Company: *See*—
Langhaus, Morris.

Sun Rubber Company, The, Barberton, Ohio. Basketballs, basketball goal sets, etc. Serial No. 622,857, Sept. 30. Class 22.

Superior Wood Products, Inc., Duluth, Minn. Fiber composition board. Serial No. 604,869, Sept. 30. Class 12.

Susslin, Charles A., doing business as Pep'mint Tooth Paste Co., Mt. Vernon, N. Y. Toothpaste. Serial No. 617,379, Sept. 30. Class 51.

Tasco International Corporation, Dallas, Tex. Jalousies, louver windows and louver doors. Serial No. 616,995, Sept. 30. Class 12.

Textron Incorporated, Providence, R. I. Electric blankets. Serial No. 626,481, Sept. 30. Class 21.

Toledo Desk and Fixture Company, The, Maumee, Ohio, assignor to Toledo Desk & Fixture Corporation. Cabinet-type lavatory units. Serial No. 627,287–9, Sept. 30. Class 13.

Toledo Desk & Fixture Corporation, assignee: *See*—
Toledo Desk and Fixture Company, The.

Tootal Broadhurst Lee Company Limited, Manchester, England. Piece goods. Serial No. 625,772, Sept. 30. Class 42.

Travenol Laboratories, Inc., Morton Groove, Ill. Nonprotein bacterial pyrogen. Serial No. 626,352, Sept. 30. Class 18.

Trendex Company, The, Memphis, Tenn. Saturated and hard fatty acids. Serial No. 613,313, Sept. 30. Class 6.

Trip-Mode Manufacturing Co., New York, N. Y. Vanity cases, hat cases, utility cases and suitcases, etc. Serial No. 619,414, Sept. 30. Class 3.

Troob-Gordon Co., Providence, R. I. Jewelry. Serial No. 616,739, Sept. 30. Class 28.

Tru-Pine Company, Chicago, Ill. Insecticides. Serial No. 600,931, Sept. 30. Class 6.

Truscon Steel Company, Youngstown, Ohio. Steel boxes, bomb crates, telephone boxes, etc. Serial No. 611,202, Sept. 30. Class 2.

Twin Disc Clutch Company, Racine, Wis. Hydraulic power transmission coupling and connected planetary gear set. Serial No. 601,964, Sept. 30. Class 23.

Union Starch & Refining Co., Columbus, Ind. Marshmallow. Serial No. 621,924, Sept. 30. Class 46.

United States Gypsum Company, Chicago, Ill. Metal casting plaster. Serial No. 591,260, Sept. 30. Class 12.

VMB Chemical Co., Elmwood Park, Ill. Laundry detergent. Serial No. 612,046, Sept. 30. Class 52.

Vamoos Products, Inc., Chicago, Ill. Vaporizing, atomizing container. Serial No. 572,470, Sept. 30. Class 2.

Vanco Paint & Varnish Co.: *See*—
Vander Meulen, Katharina.

Vander Meulen, Katharina, doing business as Vanco Paint & Varnish Co., Chicago, Ill. Paints. Serial No. 610,572, Sept. 30. Class 16.

Vickers-Armstrongs Limited, London and Westminster, London, England. Aeroplanes and structural parts thereof. Serial No. 618,106, Sept. 30. Class 19.

Virginia Art Goods Studios, Inc., The, Lynchburg, Va. Handbags, and pocketbooks and covers therefor. Serial No. 615,506, Sept. 30. Class 3.

Virginia-Carolina Chemical Corporation, Richmond, Va. Synthetic detergent. Serial No. 618,416, Sept. 30. Class 52.

Virginia-Carolina Chemical Corporation, Richmond, Va. Synthetic detergent. Serial No. 618,428, Sept. 30. Class 52.

Vital Products Manufacturing Company, Cleveland, Ohio. Calking compound. Serial No. 614,528, Sept. 30. Class 12.

Vollmer's Food Specialties, Inc., Ardmore, Pa. Food specialties. Serial No. 614,639, Sept. 30. Class 46.

Wasco Flashing Co., Cambridge, Mass. Skylights. Serial No. 618,067, Sept. 30. Class 12.

Washington Steel Products, Inc., Tacoma, Wash. Cabinet hardware. Serial No. 614,733, Sept. 30. Class 13.

West Disinfecting Company, Long Island City, N. Y. Liquid soap. Serial Nos. 625,165–6, Sept. 30. Class 52.

Westway Sportswear, Inc., Dallas, Tex. Toddler's, children's, girls' and subteens' dresses, suits, sun-dresses, etc. Serial No. 627,852, Sept. 30. Class 39.

Wheeling Corrugating Company, Wheeling, W. Va. Harrows. Serial No. 572,004, Sept. 30. Class 23.

Whitney Process, Inc., Rocky Ford, Colo. Light-sensitive matrix forming material for the photographic production of printing plates. Serial No. 616,575, Sept. 30. Class 26.

Wickes Corporation, The, Saginaw, Mich. Graphitic carbon in compact form. Serial No. 623,224, Sept. 30. Class 1.

Wood, Gar, Industries, Inc., Wayne, Mich. Hoists. Serial No. 612,370, Sept. 30. Class 23.

Woodward Governor Company, Rockford, Ill. Automatic governors. Serial No. 528,903, Sept. 30. Class 23.

Youngs Rubber Corporation, New York, N. Y. Prophylactic polymeric articles. Serial No. 617,330, Sept. 30. Class 44.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Enzyme preparation. 564,637, Sept. 30; Serial No. 607,407, published June 3, 1952. Class 18.

Abbott Laboratories, North Chicago, Ill. Blood substitute. 564,639, Sept. 30; Serial No. 610,398, published July 1, 1952. Class 18.

Aktiebolaget Sveriges Forenade Konservfabriker, Goteborg, Sweden. Canned herring. 564,670, Sept. 30; Serial No. 612,104, published July 8, 1952. Class 46.

Allen-Sherman-Hoff Company, The, Philadelphia, to The Allen-Sherman-Hoff Company, Wynnewood, Pa. Pumps and parts thereof. 297,989, renewed Oct. 11, 1952. O. G. Sept. 30. Class 23.

Allied Chemical & Dye Corporation: *See*—
Barrett Manufacturing Company.

Allsheer Hosiery Mills, Inc., Liberty, N. C. Ladies' hosiery. 564,819, Sept. 30; Serial No. 622,371. Class 39.

American Air Filter Company, Inc., Louisville, Ky. Rolls of fiber glass, synthetic fibers and cotton wadding. 564,601, Sept. 30; Serial No. 610,655, published June 3, 1952. Class 1.

American Chemical Paint Company, Ambler, Pa. Chemical preparations. 564,763, Sept. 30; Serial No. 622,915, published July 1, 1952. Class 6.

American Cyanamid Company, New York, N. Y. Antibacterial and anti-viral preparations. 564,599, Sept. 30; Serial No. 594,429, published June 3, 1952. Class 18.

American Cyanamid Company, New York, N. Y. Antihistaminic preparation. 564,650, Sept. 30; Serial No. 609,272, published June 3, 1952. Class 18.

American Cyanamid Company, New York, N. Y. Vitamin-mineral preparation. 564,695, Sept. 30; Serial No. 615,101, published June 17, 1952. Class 18.

American Cyanamid Company, New York, N. Y. Anticonvulsant. 564,748, Sept. 30; Serial No. 620,454, published June 17, 1952. Class 18.

American Kitchen Products Company, Jersey City, N. J. Preparations in the form of cubes for making beef broth, chicken broth and vegetable broth. 564,741, Sept. 30; Serial No. 619,062, published June 10, 1952. Class 46.

American Plasticraft Company, New York, N. Y. Watch crystals. 564,585, Sept. 30; Serial No. 585,305, published June 3, 1952. Class 33.

American Pulley Company, The, Philadelphia, Pa. Pulleys and assemblies. 564,636, Sept. 30; Serial No. 607,279, published June 3, 1952. Class 23.

American Slicing Machine Company, Chicago, Ill. Slicing machines. 296,340, renewed Aug. 2, 1952. O. G. Sept. 30. Class 23.

American Stores Company, Philadelphia, Pa. Butter. 298,803, renewed Nov. 8, 1952. O. G. Sept. 30. Class 46.

American Window Glass Company, Pittsburgh, Pa. Sheet glass. 564,683, Sept. 30; Serial No. 614,030, published June 17, 1952. Class 33.

American Window Glass Company, Pittsburgh, Pa. Laminated glass. 564,684, Sept. 30; Serial No. 614,031, published June 17, 1952. Class 33.

American Window Glass Company, Pittsburgh, Pa. Sheet glass. 564,685, Sept. 30; Serial No. 614,032, published June 17, 1952. Class 33.

Anacin Company, The, Chicago, Ill., to Wyeth Incorporated, Philadelphia, Pa. Dentifrices and mouth washes. 295,762, renewed July 12, 1952. O. G. Sept. 30. Class 51.

Archer-Daniels-Midland Company, Minneapolis, Minn. Poultry concentrate, calf starter, hog concentrate, etc. 564,540, Sept. 30; Serial No. 513,864, published July 4, 1950. Class 46.

Archer-Daniels-Midland Company, also doing business as The W. J. Small Company, Minneapolis, Minn. Alfalfa in its natural state, chopped alfalfa, dehydrated alfalfa, etc. 564,750, Sept. 30; Serial No. 621,648, published July 8, 1952. Class 46.

Arlington Laboratories, Inc., Harrison and Arlington, N. J. Medicinal composition of antacids. 564,643, Sept. 30; Serial No. 608,694, published June 3, 1952. Class 18.

Armour and Company, Chicago, Ill. Hams, bacon, and sausage. 564,544, Sept. 30; Serial No. 529,853, published June 24, 1952. Class 46.

Armour and Company, Chicago, Ill. Vitamin B_{12}. 564,736, Sept. 30; Serial No. 618,615, published June 17, 1952. Class 18.

Armstrong Cork Company, Lancaster, Pa. Polishing preparation. 298,945, renewed Nov. 15, 1952. O. G. Sept. 30. Class 4.

Athey Products Corporation, Chicago, Ill. Continuous belt loader. 564,651, Sept. 30; Serial No. 609,328, published June 3, 1952. Class 23.

Atlas Fabrics Corp.: *See*—
Goldman, Charles.

Atlas Mills: *See*—
Goldman, Charles.

Atwood Coffee Company, Minneapolis, Minn. Coffee. 564,724, Sept. 30; Serial No. 617,691, published July 1, 1952. Class 46.

Avildsen Tools & Machines, Inc., doing business under the name of Century Drill & Tool Works, Chicago, Ill. Drill bits. 564,735, Sept. 30; Serial No. 618,526, published June 3, 1952. Class 23.

Avoset Company, San Francisco, Calif. Protein breakfast food. 564,646, Sept. 30; Serial No. 609,117, published June 17, 1952. Class 46.

B & E Manufacturing Co.: *See*—
De Wild, Benjamin.

Babson Bros. Co., Chicago, Ill. Dairy cleanser. 564,541, Sept. 30; Serial No. 526,677, published Oct. 19, 1948. Class 52.

Baker Food Products Company, Chicago, Ill. Dog food. 564,694, Sept. 30; Serial No. 615,042, published July 1, 1952. Class 46.

Barclay Knitwear Co., Inc., New York, N. Y. Men's and boys' basque shirts and sweaters. 564,807, Sept. 30; Serial No. 614,236. Class 39.

Barclay, Robert, Inc., Chicago, Ill. Fuel oil filters. 564,797–8, Sept. 30; Serial Nos. 604,183–4. Class 31.

Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Raw and partially prepared pitch, tar and asphalt. 86,773, re-renewed June 4, 1952. O. G. Sept. 30. Class 12.

Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Coal tar oils. 86,872, re-renewed June 11, 1952. O. G. Sept. 30. Class 15.

Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Pitch. 88,452, re-renewed Sept. 24, 1952. O. G. Sept. 30. Class 12.

Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Roofing felts and papers. 88,659, re-renewed Oct. 15, 1952. O. G. Sept. 30. Class 12.

Barz, Herman, Inc., New York, N. Y. Sweatbands. 564,711, Sept. 30; Serial No. 615,967, published May 20, 1952. Class 39.

Baur, O. P., Confectionery Company, The, Denver, Colo. Mint flavored candies. 564,558, Sept. 30; Serial No. 550,892, published June 24, 1952. Class 46.

Bel Paese Sales Co. Inc., New York, N. Y. Cheese. 564,675, Sept. 30; Serial No. 613,043, published June 3, 1952. Class 46.

Bengue Inc., Union City, N. J. Medicinal preparation. 564,584, Sept. 30; Serial No. 584,961, published June 17, 1952. Class 18.

Bethlehem Steel Company, Bethlehem, Pa. Steel sheets. 295,663, renewed July 5, 1952. O. G. Sept. 30. Class 14.

Billings & Spencer Company, The: *See*—
Coes Wrench Company.

Billings & Spencer Company, The, Hartford, Conn. Golf clubs. 296,507, renewed Aug. 9, 1952. O. G. Sept. 30. Class 22.

Bivar & Ca., Lda., Portimao, Portugal. Canned fish. 564,756, Sept. 30; Serial No. 621,805, published June 3, 1952. Class 46.

Blue Anchor Packing Co., Inc., Blue Anchor, N. J. Frozen oysters, and frozen cooked crab cakes. 564,601, Sept. 30; Serial No. 595,490, published June 10, 1952. Class 46.

Blue Blood Aquatic: *See*—
Duvic, Andres M.

Blue Jay Food Products Co., Inc., Brooklyn, N. Y. Cookies. 564,734, Sept. 30; Serial No. 618,479, published June 24, 1952. Class 46.

Boggs Manufacturing Corporation, Atlanta, N. Y. Potato graders, potato seed treating machines, bin loaders, etc. 294,646, renewed June 7, 1952. O. G. Sept. 30. Class 23.

Borbro Laboratories: *See*—
Borun Bros.

Borden Company, The, New York, N. Y. Ice cream and sherbets. 564,560, Sept. 30; Serial No. 556,553, published May 13, 1952. Class 46.

Borun Bros., also doing business as Borbro Laboratories, Los Angeles, Calif. Almond oil, arnica, benzoin, boric acid, etc. 564,597, Sept. 30; Serial No. 592,357, published June 3, 1952. Class 18.

Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. 87,151, re-renewed July 2, 1952. O. G. Sept. 30. Class 39.

Boyd, William, Beverly Hills, Calif. Cookies and candies and chewing gum. 564,608, Sept. 30; Serial No. 601,137, published July 1, 1952. Class 46.

Bozeman Canning Co.: *See*—
Pictsweet Foods, Inc.

Brand, Morris M., doing business as Corpus Christi Grease Co., Corpus Christi, Tex. Grease and dirt remover. 564,714, Sept. 30; Serial No. 616,221, published July 15, 1952. Class 52.

Brand & Oppenheimer Incorporated, New York, N. Y. Textile fabrics. 564,681, Sept. 30; Serial No. 613,703, published July 8, 1952. Class 42.

Breneman, Chas. W., Company, The, Cincinnati, Ohio. Plastic window shades. 564,816, Sept. 30; Serial No. 617,831. Class 32.

Brody Clothing Company, Boston, Mass. Men's topcoats and overcoats. 564,654, Sept. 30; Serial No. 610,045, published May 27, 1952. Class 39.

Brooks Bar Corner: *See*—
Rosenfeld, Louis M.

Bruner-Ritter, Inc., New York, N. Y. Bracelets, wrist watch bracelets. 564,718, Sept. 30; Serial No. 616,657, published June 17, 1952. Class 28.

Bubble-O-Bill Company: *See*—
Corcoran, Robert J.

Bubble-O-Bill Corporation, assignee: *See*—
Corcoran, Robert J.

Burrus Feed Mills: *See*—
Tex-O-Kan Flour Mills Co.

Burrus Mills, Incorporated: *See*—
Tex-O-Kan Flour Mills Co.

California Sportwear Company, Los Angeles, Calif. Men's jackets. 564,610, Sept. 30; Serial No. 601,600, published May 20, 1952. Class 39.

California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif., to California Spray-Chemical Corporation, Richmond, Calif. Insecticides, germicides, and fungicides. 294,838, renewed June 7, 1952. O. G. Sept. 30. Class 6.

Cal-Wood Manufacturing Co.: *See*—
Roberts, Melvin R.

Cape Ann Manufacturing Company, Gloucester, Mass. Men's and boys' wearing apparel. 564,728, Sept. 30; Serial No. 618,025, published Apr. 29, 1952. Class 39.

Casimir Funk Laboratories, Inc., New York, N. Y. Pharmaceutical preparation. 564,578, Sept. 30; Serial No. 581,861, published June 3, 1952. Class 18.

Central Scientific Company, Chicago, Ill. Vacuum pumps. 298,907, renewed Nov. 15, 1952. O. G. Sept. 30. Class 23.

Century Drill & Tool Works: *See*—
Avildsen Tools & Machines, Inc.

Century Products Works, Inc., New York, N. Y. Clocks. 564,725, Sept. 30; Serial No. 617,863, published June 17, 1952. Class 27.

Champ Hats, Inc., Philadelphia, Pa. Men's and boys' hats and caps. 564,720, Sept. 30; Serial No. 616,940, published Apr. 29, 1952. Class 39.

Champion Spark Plug Company, to Champion Spark Plug Company, Toledo, Ohio. Spark plug testers. 298,552, renewed Nov. 1, 1952. O. G. Sept. 30. Class 26.

Charlton Company, Inc., Fitchburg, Mass. Sofa beds. 564,781, Sept. 30; Serial No. 559,679. Class 32.

Chattanooga Medicine Company, The, Chattanooga, Tenn. Liver cathartic and laxative medicine. 294,029, May 17, 1932. Republished Sept. 30. Class 18.

Chattanooga Medicine Company, The, Chattanooga, Tenn. Liver medicine. 295,452, July 5, 1932. Republished Sept. 30. Class 18.

Cheese Producers' Marketing Association, Monroe, Wis. Cheese. 564,702, Sept. 30; Serial No. 615,439, published July 1, 1952. Class 46.

Chiles, Thomas B., doing business as Hush Puppie Mix Co., Lexington, Ky. Hush puppy mix. 564,607, Sept. 30; Serial No. 599,814, published May 20, 1952. Class 46.

Chillo Products Co., San Francisco, Calif. Chocolate coatings, syrup toppings, and crushed fruits. 564,550, Sept. 30; Serial No. 566,212, published June 10, 1952. Class 46.

Choc-O-Vita Company, The: *See*—
Hunter, H. B.

Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Adrenal cortical hormone preparation. 564,641, Sept. 30; Serial No. 607,943, published June 24, 1952. Class 18.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Ciba Limited.

Clayton, Walter E., doing business under the name The Poly-Varn Co., San Francisco, Calif. Polishes. 564,546, Sept. 30; Serial No. 541,567, published June 24, 1952. Class 4.

Coast Industries: *See*—
Irwin, Nels.

Coes Wrench Company, Worcester, Mass., to The Billings & Spencer Company, Hartford, Conn. Wrenches. 88,616, re-renewed Oct. 8, 1952. O. G. Sept. 30. Class 23.

Cohen, Joseph H., & Sons, Inc., New York, N. Y. Men's clothing. 564,622, Sept. 30; Serial No. 604,357, published Apr. 29, 1952. Class 39.

Comex Sales Company: *See*—
Ungar, Jesse.

Conservas Cerqueira, Limitada, Vigo, Spain. Canned fish. 564,600, Sept. 30; Serial No. 594,694, published June 24, 1952. Class 46.

Consolidated Products Company, Danville, Ill. Animal feed. 564,742, Sept. 30; Serial No. 619,190, published June 10, 1952. Class 46.

Container Corporation of America, Chicago, Ill. Paperboard boxes and cartons. 564,800, Sept. 30; Serial No. 606,755. Class 2.

Corcoran, Robert J., doing business as Bubble-O-Bill Company, Beverly Hills, assignor to Bubble-O-Bill Corporation, Los Angeles, Calif. Medallions, finger rings, necklaces, and bracelets. 564,657, Sept. 30; Serial No. 610,259, published June 10, 1952. Class 28.

Corpus Christi Grease Co.: *See*—
Brand, Morris M.

Creamery Package Mfg. Company, The, Chicago, Ill. Dairy products processing machinery and equipment. 564,542, Sept. 30; Serial No. 527,916, published June 10, 1952. Class 23.

Croll-Reynolds Co. Inc., Teterboro, N. J., and New York, N. Y. Flowing fluid jet aspirators. 564,592, Sept. 30; Serial No. 590,548, published June 3, 1952. Class 23.

Cu-Lin Company, The: *See*—
Wunsch, Julius A.

Cunningham Coffee Company: *See*—
Cunningham, William E.

Cunningham, William E., doing business as Cunningham Coffee Company, Los Angeles, Calif. Coffee. 564,672, Sept. 30; Serial No. 612,308, published May 20, 1952. Class 46.

Custom Scarfs, Inc., New York, N. Y. Scarfs, ties, skirts, etc. 564,721, Sept. 30; Serial No. 617,141, published Apr. 29, 1952. Class 39.

Damrow, George E., Brooklyn, N. Y., to Pie-Pak Company, Incorporated, Hoboken, N. J. Paper cartons. 298,579, renewed Nov. 1, 1952. O. G. Sept. 30. Class 2.

Dupag (1943) Limited, London, England. Printing machines and parts thereof. 564,758, Sept. 30; Serial No. 621,955, published June 3, 1952. Class 23.

De Elorza, Julio L.: *See*—
Reilly, Frank C.

Del Bueno, Alex B., Plainfield, N. J. Pharmaceutical solution. 564,809, Sept. 30; Serial No. 615,212. Class 18.

De Luxe Wash Suit Co. Inc., New York, N. Y. Boys' pants. 564,803, Sept. 30; Serial No. 610,047. Class 39.

Denfis Chemical Laboratories, Inc., Brooklyn, N. Y. Automobile body washing composition. 564,630, Sept. 30; Serial No. 606,209, published July 15, 1952. Class 52.

Dewey's, Inc., Philadelphia, Pa. Restaurant, lunch-counter and fountain foods and beverages. 564,596, Sept. 30; Serial No. 592,018, published July 8, 1952. Class 46.

De Wild, Benjamin, doing business under the style and title of B & E Manufacturing Co., Knoxville, Iowa. Cleaning compounds. 564,703, Sept. 30; Serial No. 615,472, published July 15, 1952. Class 52.

Dick, A. B., Company, Niles, Ill. Paper. 294,363, May 24, 1932. Republished Sept. 30. Class 37.

Dick, A. B., Company, Niles, Ill. Materials used in lithographic printing. 564,660, Sept. 30; Serial No. 610,428, published June 3, 1952. Class 50.

Dominique France, Inc., New York, N. Y. Men's neckties and scarves. 564,640, Sept. 30; Serial No. 607,742, published May 27, 1952. Class 39.

Dow Chemical Company, The, Midland, Mich. Miticidal composition. 564,761, Sept. 30; Serial No. 622,815, published July 1, 1952. Class 6.

Duvic, Andres M., doing business as Blue Blood Aquatics, New Orleans, La. Food. 564,642, Sept. 30; Serial No. 607,945, published July 1, 1952. Class 46.

Dwarfies Corporation, Council Bluffs, Iowa. Vitamin preparation. 564,627, Sept. 30; Serial No. 605,851, published June 17, 1952. Class 18.

Eastman Kodak Company, to Eastman Kodak Company, Rochester, N. Y. Thin, transparent sheeting of cellulosic composition. 293,954, renewed May 10, 1952. O. G. Sept. 30. Class 50.

Eversharp, Inc.: *See*—
Wahl Company, The.

Exhibit Sales Co.: *See*—
Exhibit Sales Company.

Exhibit Sales Company, also known as Exhibit Sales Co., Philadelphia, Pa. Men's and women's costume jewelry. 564,713, Sept. 30; Serial No. 616,092, published June 17, 1952. Class 28.

Ez-Oke Co., also doing business as Ez-Oke Lab., Springfield, Oreg. Medicated lotion. 564,745, Sept. 30; Serial No. 619,933, published June 17, 1952. Class 18.

Ez-Oke Lab.: *See*—
Ez-Oke Co.

Fábrica de Conservas Madrugada, Limitada, Povoa de Varzim, Portugal. Canned fish. 564,593, Sept. 30; Serial No. 590,484, published June 17, 1952. Class 46.

Färberei Schlieren A.-G., Zurich and Schlieren, Switzerland. Imitation leather, impregnated fabics resembling imitation leather, and tarpaulins. 564,690, Sept. 30; Serial No. 614,642, published June 24, 1952. Class 50.

Federal Cartridge Corporation, Minneapolis, Minn. Rifle cartridges. 293,798, renewed May 3, 1952. O. G. Sept. 30. Class 9.

Federal Milling Company, Lockport, N. Y., to International Milling Company, Minneapolis, Minn. Bread. 86,756, re-renewed May 28, 1952. O. G. Sept. 30. Class 46.

Federal Nut Co. Inc., New York, N. Y. Shelled nuts. 564,547, Sept. 30; Serial No. 544,658, published June 24, 1952. Class 46.

Fischer Bed Spring Co., Pittsburgh, Pa. Metal beds. 564,789, Sept. 30; Serial No. 595,717. Class 32.

Fischer Industries, Inc., Cincinnati, Ohio. Rinsing and cleaning solvent. 564,617, Sept. 30; Serial No. 603,226, published June 24, 1952. Class 52.

Flato, Paul, Sales Corporation, New York, N. Y. Unfilled receptacles. 564,582, Sept. 30; Serial No. 583,081, published Aug. 1, 1950. Class 2.

Floor Mills of America, Inc., doing business under the style name of Goodlander Mills Company, Kansas City, Mo., and Fort Scott, Kans. Stock feed, supplemental dairy feed, hog and pig feed, etc. 564,762, Sept. 30; Serial No. 622,817, published July 1, 1952. Class 46.

Foodkeeper Co., Memphis, Tenn. Crop storage bins. 564,788, Sept. 30; Serial No. 594,267. Class 2.

Fort Defiance Mills: *See*—
Grove, William I.

Frank & Meyer Neckwear Co., St. Louis, Mo. Neckwear. 564,729, Sept. 30; Serial No. 618,085, published May 27, 1952. Class 39.

Freudenheim Bros., Inc., New York, N. Y. Watches. 564,814, Sept. 30; Serial No. 617,145. Class 27.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics, in the piece. 564,766, Sept. 30; Serial No. 623,347, published May 13, 1952. Class 42.

G. B. P. Co., West Springfield, Mass. Combination hand cream and all purpose cleaner. 564,662, Sept. 30; Serial No. 610,786, published July 15, 1952. Class 52.

Gang, Leo, New York, N. Y. Men's and boys' under and outer shirts, underwear, pajamas, etc. 564,615, Sept. 30; Serial No. 602,940, published Apr. 29, 1952. Class 39.

Garin Company, The, Salinas, Calif. Fresh vegetables and fresh melons. 564,669, Sept. 30; Serial No. 612,012, published May 20, 1952. Class 46.

Geigy Company, Inc., New York, N. Y. Antirheumatic, analgesic and antipyretic preparation. 564,658, Sept. 30; Serial No. 610,362, published June 17, 1952. Class 18.

General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Mineral mixture. 564,737, Sept. 30; Serial No. 618,739, published July 1, 1952. Class 18.

Gentile Bros. Company, Cincinnati, Ohio. Fresh citrus fruits. 564,555, Sept. 30; Serial No. 572,170, published June 17, 1952. Class 46.

Goldman, Charles, doing business as Atlas Mills, to Atlas Fabrics Corp., New York, N. Y. All-silk crepe. 287,012, renewed Sept. 8, 1951. O. G. Sept. 30. Class 42.

Goldman, Wm. P., & Bros., Inc., New York, N. Y. Men's suits, topcoats, overcoats, etc. 564,715, Sept. 30; Serial No. 616,289, published Apr. 29, 1952. Class 39.

Goldman, Wm. P., & Bros., Inc., New York, N. Y. Men's suits, topcoats, overcoats, slacks, etc. 564,727, Sept. 30; Serial No. 617,914, published Apr. 29, 1952. Class 39.

Goodlander Mills Company: *See*—
Floor Mills of America, Inc.

Goshen Ice Cream Company, The, Goshen, Ind. Sherbet frozen on a stick. 564,764, Sept. 30; Serial No. 623,049, published May 27, 1952. Class 46.

Grand Union Company, The, New York, N. Y. Bakery products. 564,624, Sept. 30; Serial No. 604,778, published June 24, 1952. Class 46.

Green Giant Company, Le Sueur, Minn. Frozen peas. 564,656, Sept. 30; Serial No. 610,212, published June 3, 1952. Class 46.

Griggs, Cooper & Company, St. Paul, Minn. Cookies, crackers, and coffee. 564,740, Sept. 30; Serial No. 618,962, published June 17, 1952. Class 46.

Gross, Benjamin & Edward J., Co., Inc., to J. R. Wood and Sons, Inc., New York, N. Y. Finger rings and mountings therefor. 294,474, renewed May 31, 1952. O. G. Sept. 30. Class 28.

Grove, William I., doing business as Fort Defiance Mills, Fort Defiance, Va. Self-rising flour. 296,961, renewed Aug. 30, 1952. O. G. Sept. 30. Class 46.

Gynecic Laboratories, assignor to The Purdue Frederick Company, New York, N. Y. Medicinal preparation. 564,639, Sept. 30; Serial No. 607,670, published June 3, 1952. Class 18.

Hampden Brewing Company, Willimansett, Mass. Malt beverages. 287,287, Sept. 15, 1931. Republished Sept. 30. Class 48.

Hano Paper Co., Inc.: *See*—
Hano Paper Corporation.

Hano Paper Corporation, by Hano Paper Co., Inc., New York, N. Y. Paper products. 279,422, Jan. 13, 1931. Republished Sept. 30, 1952. Class 37.

Hat Corporation of America, Norwalk, Conn. Hats for men. 564,730, Sept. 30; Serial No. 618,087, published Apr. 29, 1952. Class 39.

Hawaiian Tuna Packers, Limited, Honolulu, Territory of Hawaii. Canned tuna. 564,749, Sept. 30; Serial No. 620,504, published May 6, 1952. Class 46.

Hawley Products Company, St. Charles, Ill. Helmets. 564,716, Sept. 30; Serial No. 616,479, published Apr. 29, 1952. Class 39.

Health Champions, Inc., Detroit, Mich. Food supplement. 564,691, Sept. 30; Serial No. 614,660, published June 3, 1952. Class 18.

Heath, L. S., & Sons, Inc., Robinson, Ill. Ice cream, cheddar cheese, creamed cottage cheese, etc. 564,611, Sept. 30; Serial No. 601,904, published June 10, 1952. Class 46.

Helleman, G., Brewing Co., La Crosse, Wis. Beer. 564,780, Sept. 30; Serial No. 537,587. Class 48.

Heller, Alter, New Rochelle, N. Y. Preparation sold in paste form for preserving and renovating leather hand bags, shoes, suitcases, etc. 564,623, Sept. 30; Serial No. 604,712, published July 15, 1952. Class 6.

Heveatex Corporation, Melrose, Mass. Raw and processed rubber latex. 293,904, May 10, 1932. Republished Sept. 30. Class 1.

Hickmott Canning Co., Antioch, Calif. Canned vegetables and canned fruits. 564,692, Sept. 30; Serial No. 614,700, published June 10, 1952. Class 46.

Hortex Manufacturing Co., Inc., El Paso, Tex. Boys' dungarees. 564,688, Sept. 30; Serial No. 614,505, published June 24, 1952. Class 39.

Hospitality Corporation, The, New Haven, Conn. Reducing tablets. 564,644, Sept. 30; Serial No. 608,991, published June 3, 1952. Class 18.

Houston Packing Company, Houston, Tex. Bacon. 564,719, Sept. 30; Serial No. 616,823, published June 24, 1952. Class 46.

Hunt, Rodney, Machine Co., to Rodney Hunt Machine Co., Orange, Mass. Cloth washing machines. 291,766, renewed Feb. 23, 1952. O. G. Sept. 30. Class 24.

Hunter, H. B., doing business as The Choc-O-Vita Company, Norfolk, Va. Solid food product. 564,783, Sept. 30; Serial No. 574,659. Class 46.

Hush Puppie Mix Co.: *See*—
Chiles, Thomas B.

Hygienic Products Company, The, Canton, Ohio. Cleaning powder. 298,650–1, renewed Nov. 1, 1952. O. G. Sept. 30. Class 52.

Imperial Knife Company, Inc., Providence, R. I. Combination compass, chain and knife set. 564,663, Sept. 30; Serial No. 611,228, published June 3, 1952. Class 23.

International Affiliated Corp., Wilmington, Del. Preparation for the treatment of constipation and liver disturbances. 564,676, Sept. 30; Serial No. 613,073, published June 17, 1952. Class 18.

International Milling Company: *See*—
Federal Milling Company.

Irwin, Nels, doing business as Coast Industries, Los Angeles, Calif. Kits containing flocculent material, adhesive, and an applicator gun. 564,556, Sept. 30; Serial No. 572,251, published June 24, 1952. Class 50.

Istituto Nazionale per il Commercio Estero, Rome, Italy. Chestnuts: dried fruits, canned fruits and fruits preserved in brine, etc. 564,775, Sept. 30; Serial No. 560,896, published June 24, 1952. Class 46.

James, Sylvester J., Milwaukee, Wis. Shoe polish. 564,801, Sept. 30; Serial No. 607,128. Class 4.

Jerclaydon, Inc., Miami Beach, Fla. Cleaning composition. 564,603, Sept. 30; Serial No. 598,586, published May 22, 1951. Class 52.

John-Frederics, Inc., New York, N. Y. Women's hats. 564,738, Sept. 30; Serial No. 618,744, published Apr. 29, 1952. Class 39.

Johnson & Johnson, New Brunswick, N. J. Antiseptic lotion. 564,706, Sept. 30; Serial No. 615,645, published June 17, 1952. Class 18.

Jonesville Products Company, Jonesville and Union, S. C. Diapers. 564,790, Sept. 30; Serial No. 596,999. Class 39.

Kegan Laboratory, Inc., Englewood, N. J. Vitamin tonic. 564,652, Sept. 30; Serial No. 609,483, published June 3, 1952. Class 18.

Kellogg Company, Battle Creek, Mich. Cereal breakfast foods. 564,746, Sept. 30; Serial No. 620,314, published June 3, 1952. Class 46.

Kidde Manufacturing Co., Inc., Bloomfield, N. J. Knitting machines. 564,697–8, Sept. 30; Serial Nos. 615,329–30, published June 3, 1952. Class 23.

King Candy Company, Fort Worth, Tex. Candy. 564,769, Sept. 30; Serial No. 624,275, published June 17, 1952. Class 46.

Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. 564,665, Sept. 30; Serial No. 611,430, published June 24, 1952. Class 46.

Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. 564,666, Sept. 30; Serial No. 611,435, published June 24, 1952. Class 46.

Koepplinger's Bakery, Detroit, Mich. Bread. 564,580, Sept. 30; Serial No. 582,485, published June 10, 1952. Class 46.

Kops Bros., Inc., New York, N. Y. Corsets, girdles, brassières, etc. 295,200, renewed June 21, 1952. O. G. Sept. 30. Class 39.

Kraft Foods Company, Chicago, Ill. Cheese product. 564,548, Sept. 30; Serial No. 550,706, published July 1, 1952. Class 46.

Kuppenheimer, B., and Co, Inc., Chicago, Ill. Men's and boys' ready-to-wear coats, vests, trousers, and overcoats. 564,696, Sept. 30; Serial No. 615,227, published May 13, 1952. Class 39.

L. A. Nut House: *See*—
Los Angeles Nut House.

Larsen Company, The, Green Bay, Wis. Canned vegetables. 564,768, Sept. 30; Serial No. 624,037, published June 17, 1952. Class 46.

Lassman, Benjamin, & Son, Pittsburgh, Pa. Hydraulic cylinder linear actuators. 564,629, Sept. 30; Serial No. 606,146, published June 10, 1952. Class 23.

Lawrence, Geo. H., Limited, Sheffield, England. Cutlery. 294,664, June 7, 1932. Republished Sept. 30, 1952. Class 23.

Lehn & Fink Products Corporation, Bloomfield, N. J. Chemical preparation. 564,759, Sept. 30; Serial No. 622,086, published July 1, 1952. Class 6.

Lekas & Drivas, Inc., New York, N. Y. Olive oil, canned fruits, canned vegetables, etc. 564,572, Sept. 30; Serial No. 580,489, published May 13, 1952. Class 46.

Levine, Celia F., Newton Center, Mass. Cocktail napkins, place mat napkin sets, and guest towels. 564,770, Sept. 30; Serial No. 625,744, published July 8, 1952. Class 42.

Levy-Anderson Co., Inc., Providence, R. I. Jewelry. 564,667, Sept. 30; Serial No. 611,481, published June 3, 1952. Class 28.

Lindroth, A. L., Company, Attleboro Falls, Mass. Jewelry. 564,708, Sept. 30; Serial No. 615,939, published June 17, 1952. Class 28.

Lindsey, Ernest E., Los Angeles, Calif. Prepared doughnut mix. 564,628, Sept. 30; Serial No. 605,862, published June 24, 1952. Class 46.

Locatelli Inc., New York, N. Y. Cheese. 564,693, Sept. 30; Serial No. 615,015, published May 20, 1952. Class 46.

Los Angeles Nut House, also doing business as L. A. Nut House, Los Angeles, Calif. Peanut butter, potato chips, and candy. 564,752, Sept. 30; Serial No. 620,611, published May 6, 1952. Class 46.

M-S Mfg. Co., Chicago, Ill. Stabilizing composition. 564,631, Sept. 30; Serial No. 606,477, published July 1, 1952. Class 6.

Makers of Kal, Inc., Los Angeles, Calif. Iron, iodine, and mineral preparation. 564,682, Sept. 30; Serial No. 613,934, published June 17, 1952. Class 18.

Malleable Iron Range Company, Beaver Dam, Wis. Electric refrigerators. 297,152, renewed Sept. 6, 1952. O. G. Sept. 30. Class 31.

Maltbie Chemical Company, The: *See*—
Maltbie Laboratories, Inc.

Maltbie Laboratories, Inc., Newark, N. J., by change of name from the Maltbie Chemical Company. Preparation for the control of diarrhea. 564,551, Sept. 30; Serial No. 566,353, published June 3, 1952. Class 18.

Manufactures de Produits Chimiques du Nord Etablissements Kuhlmann, Paris, France. Hypnotic or sedative preparations. 564,552, Sept. 30; Serial No. 566,828, published June 10, 1952. Class 18.

Maryland Baking Company, The, Baltimore, Md. Ice cream cones. 564,704, Sept. 30; Serial No. 615,497, published June 17, 1952. Class 46.

Mathieson Chemical Corporation, Baltimore, Md. Flux for soldering or brazing containing compounds of hydrazine. 564,753, Sept. 30; Serial No. 621,324, published June 17, 1952. Class 6.

McDonald, D. L., doing business as H. M. McDonald Company, Chicago, Ill. Men's, women's and children's undershirts and sport shirts. 564,723, Sept. 30; Serial No. 617,669, published May 20, 1952. Class 39.

McDonald, H. M., Company: *See*—
McDonald, D. L.

Meadowbrook of California: *See*—
Simon Millinery Co.

Melville Shoe Corporation, New York, N. Y. Shoes. 297,564, Sept. 20, 1932. Republished Sept. 30. Class 39.

Merchant & Evans Company, Philadelphia, Pa. Portable hand fire extinguishers and stationary fire extinguishers. 295,614, renewed July 5, 1952. O. G. Sept. 30. Class 23.

Merck & Co., Inc., Rahway, N. J. Medicinal substance. 564,618, Sept. 30; Serial No. 603,744, published June 10, 1952. Class 18.

Merrell, Wm. S., Company, The, Cincinnati, Ohio. Preparation useful in the treatment of gastro intestinal conditions. 564,751, Sept. 30; Serial No. 620,519, published June 17, 1952. Class 18.

Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Hats and hat bodies. 444,721, Sept. 30; Serial No. 525,649, published June 24, 1952. Class 39.

Meyer, N. S., Inc., New York, N. Y. Campaign ribbon bars. 564,549, Sept. 30; Serial No. 565,644, published June 24, 1952. Class 50.

Midwest Dried Milk Company, Dundee, Ill. Feed supplements. 564,782, Sept. 30; Serial No. 565,570. Class 46.

Miles Laboratories, Inc., Elkhart, Ind. Liquid sprayer. 564,707, Sept. 30; Serial No. 615,786, published June 3, 1952. Class 23.

Money-Meters, Inc., Providence, R. I. Metal, non-registering, coin deposit units. 564,787, Sept. 30; Serial No. 587,282. Class 2.

Monroe Chemical Company: *See*—
Monroe Drug Co.

Monroe Drug Co., to Monroe Chemical Company, Quincy, Ill. Preparation capable of dissolving in gasoline, naphtha, benzole, or like solvent, etc. 89,130, re-renewed Nov. 12, 1952. O. G. Sept. 30. Class 52.

Mooney, William P., doing business as Mooney's Pharmacy and Mooney's Laboratory, Milwaukee, Wis. Capsules. 564,602, Sept. 30; Serial No. 590,112, published June 3, 1952. Class 18.

Mooney's Laboratory: *See*—
Mooney, William P.

Mooney's Pharmacy: *See*—
Mooney, William P.

Morris Instrument Corporation, New York, N. Y. Blood testing apparatus. 559,660, June 3, 1952. Corrected. O. G. Sept. 30. Class 26.

Mulford, H. K., Co., to Sharp & Dohme, Incorporated, Philadelphia, Pa. Diuretics. 38,615, re-renewed July 15, 1952. O. G. Sept. 30. Class 18.

Murray, Arthur, Enterprises, Inc., New York, N. Y. Lapel pins, and brooches. 564,635, Sept. 30; Serial No. 607,229, published June 3, 1952. Class 28.

Muther & Cie. A. G., Schupfheim, Switzerland. Cheese. 564,565, Sept. 30; Serial No. 574,667, published July 1, 1952. Class 46.

Naman Packing Company, Fresno, Calif. Dried fruits and raisins. 564,581, Sept. 30; Serial No. 582,643, published June 3, 1952. Class 46.

Nativelle Inc., New York, N. Y. Extract of strophanthin G. 564,570, Sept. 30; Serial No. 578,159, published June 3, 1952. Class 18.

Newberry Cable Splicing Co., Huntington, W. Va. Metal clamp for use in splicing cable. 564,804, Sept. 30; Serial No. 610,295. Class 13.

Neyhard, Ernest R., Pottstown, Pa. Costume jewelry. 564,705, Sept. 30; Serial No. 615,499, published June 17, 1952. Class 28.

Nicholson File Company, Providence, R. I. Files and rasps. 564,559, Sept. 30; Serial No. 552,365, published June 3, 1952. Class 23.

Nielsen, Earl M., San Diego, Calif. Canned tuna. 564,815, Sept. 30; Serial No. 617,310. Class 46.

Noble, F. H., & Co., Chicago, Ill. Statuettes, figurines, plaques, etc. 564,545, Sept. 30; Serial No. 537,347, published June 10, 1952. Class 50.

Nolde & Horst Company, New York, N. Y. Ladies' hosiery. 564,808, Sept. 30; Serial No. 614,711. Class 39.

Oakland Strawberry Association, Incorporated, Oakland, Ky. Fresh and frozen strawberries. 564,671, Sept. 30; Serial No. 612,270, published June 10, 1952. Class 46.

Old Mission Laboratories: *See*—
S. T. S. Inc.

Orano Corporation, New York, N. Y. Watches. 564,562, Sept. 30; Serial No. 574,374, published June 3, 1952. Class 27.

Oswego Falls Corporation, Fulton, N. Y. Hood caps for containers. 291,701, renewed Feb. 23, 1952. O. G. Sept. 30. Class 50.

Oxford Paper Company, New York, N. Y. Paper. 298,869, renewed Nov. 8, 1952. O. G. Sept. 30. Class 37.

Pan Pharmacals, Inc., New York, N. Y. Pharmaceutical preparation. 564,616, Sept. 30; Serial No. 603,077, published June 3, 1952. Class 18.

Paper Manufacturers Co., Philadelphia, Pa. Gummed paper, heat seal paper, and gummed papers. 564,553, Sept. 30; Serial No. 567,206, published July 8, 1952. Class 5.

Patek and Co., San Francisco, Calif. Spot removal additive. 564,588, Sept. 30; Serial No. 588,319, published July 15, 1952. Class 52.

Patman, Urban N., Inc., Los Angeles, Calif. Ground beef and veal cutlets. 564,796, Sept. 30; Serial No. 603,415. Class 46.

Peerless Camera Stores, Inc., assignor to Photoptic Import Corporation, New York, N. Y. Photographic apparatus. 564,605, Sept. 30; Serial No. 599,578, published June 10, 1952. Class 26.

Penny, John, & Sons, Limited, Ramea, Newfoundland. Fresh frozen, smoked frozen, salted and canned whole fish and parts thereof, etc. 564,574, Sept. 30; Serial No. 581,285, published June 24, 1952. Class 46.

Penny, John, & Sons, Limited, Ramea, Newfoundland. Fresh frozen and smoked frozen whole fish and parts thereof, etc. 564,575, Sept. 30; Serial No. 581,286, published June 24, 1952. Class 46.

Peters, Leo, doing business under the trade name of Peters' Produce Co., Evanston, Ill. Butter, margarine, cheese, and ice cream. 564,709–10, Sept. 30; Serial Nos. 615,942–3, published June 17, 1952. Class 46.

Peters' Produce Co.: *See*—
Peters, Leo.

Phelps-Terkel Inc., Los Angeles, Calif. Sportswear. 564,566, Sept. 30; Serial No. 576,012, published May 20, 1952. Class 39.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,309, renewed June 28, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,312–13, renewed June 28, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,315–16, renewed June 28, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,318, renewed June 28, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,323, renewed June 28, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,325, renewed June 28, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Wearing apparel. 295,326, renewed June 28, 1952. O. G. Sept. 30. Class 39.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,893, renewed July 19, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,906, renewed July 19, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,908–9, renewed July 19, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,912, renewed July 19, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,914, renewed July 19, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,916, renewed July 19, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,918, renewed July 19, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Motor fuel oils and lubricating oils. 295,920, renewed July 19, 1952. O. G. Sept. 30. Class 15.

Phillips Petroleum Company, Bartlesville, Okla. Organic hydroperoxides. 564,573, Sept. 30; Serial No. 580,945, published June 3, 1952. Class 6.

Photoptic Import Corporation: *See*—
Peerless Camera Stores, Inc.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 564,744, Sept. 30; Serial No. 619,709, published June 3, 1952. Class 18.

Pictsweet Foods, Inc., sometimes doing business under the trade style Bozeman Canning Co., Mount Vernon, Wash. Canned peas. 564,680, Sept. 30; Serial No. 613,682, published June 24, 1952. Class 46.

Pie-Park Company, Incorporated: *See*—
Damrow, George E.

Pincus Bros. Incorporated, Philadelphia, Pa. Men's and boys' suits, topcoats, reefers, etc. 564,731, Sept. 30; Serial No. 618,179, published Apr. 29, 1952. Class 39.

Poly-Varn Co., The: *See*—
Clayton, Walter E.

Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing soap-like detergents. 564,820, Sept. 30; Serial No. 632,581. Class 52.

Pullman Pajamas, Inc., New York, N. Y. Ladies' pajamas. 564,778, Sept. 30; Serial No. 525,106. Class 39.

Pullman Pajamas, Inc., New York, N. Y. Men's pajamas. 564,779, Sept. 30; Serial No. 525,107. Class 39.

Purdue Frederick Co., The, New York, N. Y. Tonic compound. 46,229, Sept. 12, 1905. Corrected. O. G. Sept. 30. Class 18. (Formerly Class 6.)

Purdue Frederick Company, The, assignee: *See*—
Gynecic Laboratories.

Q-V Corporation, The, Ferndale, Mich. Vitamins and concentrated nutritional food supplements. 564,583, Sept. 30; Serial No. 584,347, published June 17, 1952. Class 18.

Ranney Refrigerator Company, Greenville, Mich. Pan like receptacles commonly used in refrigerators. 564,792, Sept. 30; Serial No. 600,078. Class 31.

Recker, Earl C., doing business as Earl C. Recker Company, Mesa, Ariz. Fresh vegetables and fresh melons. 564,612, Sept. 30; Serial No. 602,067, published May 27, 1952. Class 46.

Recker, Earl C., Company: *See*—
Recker, Earl C.

Reddi Pressure Products Inc., St. Louis, Mo. Shaving lather. 564,812, Sept. 30; Serial No. 616,450. Class 51.

Regal Knitting Co. Inc., by Regal Knitwear Co., Inc., New York, N. Y. Garments. 290,746, Jan. 12, 1932. Republished Sept. 30. Class 39.

Regal Knitwear Co., Inc.: *See*—
Regal Knitting Co. Inc.

Rehels Company, Inc., Berkeley Heights, N. J. Aluminum chloride for use in medicinal astringents. 564,632, Sept. 30; Serial No. 606,487, published June 3, 1952. Class 18.

Reilly, Frank C., New York, N. Y., to J. L. de Elorza, Newark, N. J. Astringents, astringent cerates, bleach creams, etc. 297,053, renewed Aug. 30, 1952. O. G. Sept. 30. Class 51.

Reliable Stores Corporation, Baltimore, Md. Watches, clocks, and parts thereof. 564,591, Sept. 30; Serial No. 589,869, published June 3, 1952. Class 27.

Respondek, John E., doing business under the name and style of Respondek Pharmacy, Hamtramck, Mich. Liquid tonic laxative. 564,586, Sept. 30; Serial No. 587,052, published June 17, 1952. Class 18.

Respondek Pharmacy: *See*—
Respondek, John E.

Revere, Paul, Life Insurance Company, The, Worcester, Mass. Underwriting of health and accident, life, and group insurance. 564,774, Sept. 30; Serial No. 618,519, published July 8, 1952. Class 102.

Reynolds-Shaffer Co., Detroit, Mich. Chemical feeders designed to be connected to water lines. 564,785, Sept. 30; Serial No. 577,985. Class 13.

Rheem Manufacturing Company, Richmond, Calif. Steel drums, drum heads and drum closures therefor. 564,794, Sept. 30; Serial No. 601,948. Class 2.

Rilling Company, New York, N. Y., now by change of name The Rilling-Dermetics Company. Hair shampoo. 564,613, Sept. 30; Serial No. 602,068, published June 24, 1952. Class 52.

Rilling-Dermetics Company, The: *See*—
Rilling Company.

Roberts, Melvin R., doing business as Cal-Wood Manufacturing Co., Los Angeles, Calif. Wood furniture. 564,786, Sept. 30; Serial No. 584,775. Class 32.

Robinson-Wagner Co., Inc., New York, N. Y. Mixture of liquid lanolin alcohols. 564,674, Sept. 30; Serial No. 612,872, published July 1, 1952. Class 6.

Rockingham Poultry Marketing Co-Operative, Inc., Broadway, Va. Fresh dressed poultry and frozen poultry. 564,739, Sept. 30; Serial No. 618,817, published June 24, 1952. Class 46.

Rona Plastic Corp., New York, N. Y. Plastic canisters. 564,802 Sept. 30; Serial No. 608,017. Class 2.

Rosalind Underwear Company, Inc., New York, N. Y. Panty girdles. 564,806, Sept. 30; Serial No. 612,826. Class 39.

Rosenfeld, Louis M., doing business as Brooks Bar Corner, Baltimore, Md. Drinking glasses and glass bowls. 564,805, Sept. 30; Serial No. 612,761. Class 33.

Ross, Sydney, Co., The, Newark, N. J., to The Sydney Ross Co., New York, N. Y. General tonic preparation. 295,752, renewed July 12, 1952. O. G. Sept. 30. Class 18.

Rosson-Richards Processing Co., Inc., Corpus Christi, Tex. Prepared weighting material such as barite or other heavy substance for making heavy concrete. 564,795, Sept. 30; Serial No. 603,310. Class 12.

Rougier Freres, Montreal, Quebec, Canada. Vaso-dilator for the treatment of blood hypertension. 564,568, Sept. 30; Serial No. 577,456, published June 3, 1952. Class 18.

S. & C. Products Company, Dallas, Tex. Elixir and iron tonic. 564,687, Sept. 30; Serial No. 614,218, published June 3, 1952. Class 18.

S. T. S. Inc., also doing business under the name Old Mission Laboratories, Burbank, Calif. Weight reducing tablets. 564,757, Sept. 30; Serial No. 621,908, published July 1, 1952. Class 18.

Sahyun Laboratories: *See*—
Sahyun, Melville.

Sahyun, Melville, doing business as Sahyun Laboratories, Santa Barbara, Calif. Preparation used in the treatment of anemia. 564,614, Sept. 30; Serial No. 602,339, published June 3, 1952. Class 18.

Salinas Valley Vegetable Exchange, Salinas, Calif. Fresh lettuce and fresh melons. 564,621, Sept. 30; Serial No. 604,329, published June 17, 1952. Class 46.

Schenley Distillers, Inc.: *See*—
Seevers, Robert O.

Schering Corporation, Bloomfield, N. J. Crystalline testosterone hormone preparation. 564,638, Sept. 30; Serial No. 607,607, published June 3, 1952. Class 18.

Schmid, Prof. Dr. Georg., Wabern, Bern, Switzerland. Veterinary medicines. 564,747, Sept. 30; Serial No. 620,325, published June 17, 1952. Class 18.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Adhesive medicated shields or pads. 564,679, Sept. 30; Serial No. 613,479, published June 3, 1952. Class 18.

Schueller, Eugène, Paris (Seine), France. Shampoos. 564,689, Sept. 30; Serial No. 614,517, published July 15, 1952. Class 52.

Sea Modes, Inc., Brooklyn, N. Y. Swim suits. 444,720, Sept. 30; Serial No. 513,641, published May 13, 1952. Class 39.

Sears, George A., McGregor, Minn. Dressed poultry. 564,760, Sept. 30; Serial No. 622,415, published June 17, 1952. Class 46.

Seevers, Robert O., Minneapolis, Minn., to Schenley Distillers, Inc., New York, N. Y. Whiskey. 294,654, renewed June 7, 1952. O. G. Sept. 30. Class 49.

Seinsheimer, H. A., Company, The, Cincinnati, Ohio. Men's and boys' suits, overcoats, topcoats, etc. 564,655, Sept. 30; Serial No. 610,104, published May 20, 1952. Class 39.

Sexton, John, & Co., Chicago, Ill. Meat products, baking aids, seasoning materials, etc. 564,571, Sept. 30; Serial No. 578,715, published June 10, 1952. Class 46.

Sharp & Dohme, Incorporated: *See*—
Mulford, H. K., Co.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Penicillin-containing preparation. 564,647, Sept. 30; Serial No. 609,206, published June 3, 1952. Class 18.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Estrogenic preparation. 564,648, Sept. 30; Serial No. 609,209, published June 3, 1952. Class 18.

Shedd-Bartush Foods, Inc., Detroit, Mich. Oleomargarine. 564,587, Sept. 30; Serial No. 587,913, published June 24, 1952. Class 46.

Sherman, Monroe, Flushing, N. Y. Alloys of silver, of platinum, of palladium and of gold. 564,799, Sept. 30; Serial No. 605,375. Class 14.

Shively, Roy H., Scranton, Pa. Brake adjusting mechanism. 564,561, Sept. 30; Serial No. 561,266, published Oct. 31, 1950. Class 19.

Shotwell Mfg. Co., The, Chicago, Ill. Chocolate covered marshmallows. 564,563–4, Sept. 30; Serial Nos. 574,548–9, published July 1, 1952. Class 46.

Siebenberg, Sam S., New York, N. Y. Jewelry. 564,817, Sept. 30; Serial No. 619,588. Class 28.

Silvertex Company, The, Philadelphia, Pa. Men's, boys', women's, and children's outer garments. 564,732, Sept. 30; Serial No. 618,307, published May 27, 1952. Class 39.

Simon Millinery Co., also doing business as Meadowbrook of California, San Francisco, Calif. Ladies' hats. 564,717, Sept. 30; Serial No. 616,572, published Apr. 29, 1952. Class 39.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Men's, women's, misses', and children's caps, hats, sport coats, etc. 564,722, Sept. 30; Serial No. 617,318, published Apr. 29, 1952. Class 39.

Skrmetta, Nick, Biloxi, Miss. Liquid chemical preparation for the treatment of sores, warts, etc. 564,595, Sept. 30; Serial No. 591,113, published June 3, 1952. Class 18.

Small, W. J., Company, The: *See*—
Archer-Daniels-Midland Company.

Smith, Chester W., doing business under the name and style of Whitfield Chemical Company, Detroit, Mich. Chemicals used for industrial metal cleaning processes. 564,609, Sept. 30; Serial No. 601,480, published July 1, 1952. Class 52.

Smith, Colburn J., Taylorsville, Calif. Medicament. 564,793, Sept. 30; Serial No. 601,578. Class 18.

Smith, John W., Reynoldsville, Pa. Salve. 564,668, Sept. 30; Serial No. 611,546, published June 3, 1952. Class 18.

Snively Groves, Inc., Winter Haven, Fla. Canned citrus fruits, and canned citrus fruit juices. 564,619, Sept. 30; Serial No. 603,865, published May 13, 1952. Class 46.

Societe Anonyme Novacel (Nouvelles Applications Chimiques et Cellulosiques), Paris, France. Dressings, bandages and artificial sponges. 564,604, Sept. 30; Serial No. 596,874, published July 8, 1952. Class 44.

Sonneborn, L., Sons, Inc., New York, N. Y. Petrolatum for medicinal purposes. 297,067, Aug. 30, 1932. Republished Sept. 30. Class 18.

Southern Manhattan Infantswear Co., New Orleans, La. Infants' diapers, shirts, pinafores, etc. 564,813, Sept. 30; Serial No. 616,734. Class 39.

Southwind Orchards, Dakota, Minn. Various food products. 564,625–6, Sept. 30; Serial Nos. 605,448–9, published July 1, 1952. Class 46.

Speidel Corporation, Providence, R. I. Watch bracelets. 564,712, Sept. 30; Serial No. 616,060, published June 17, 1952. Class 28.

Speidel Corporation, Providence, R. I. Watch bracelets. 564,810, Sept. 30; Serial No. 616,059. Class 28.

Speidel Corporation, Providence, R. I. Watch bracelets. 564,811, Sept. 30; Serial No. 616,061. Class 28.

Standard Brands Incorporated, New York, N. Y. Salad dressing. 296,742, renewed Aug. 16, 1952. O. G. Sept. 30. Class 46.

Standard Milling Company, Chicago, Ill. Wheat flour. 564,543, Sept. 30; Serial No. 528,894, published May 13, 1952. Class 46.

Stayner Corporation, Berkeley, Calif. Sedative. 564,686, Sept. 30; Serial No. 614,171, published June 3, 1952. Class 18.

Stensgaard, W. L., and Associates, Inc., Chicago, Ill. Display devices. 564,673, Sept. 30; Serial No. 612,836, published June 24, 1952. Class 50.

Stenzel, R., Pickle Products: *See*—
Stenzel, Rudolph J.

Stenzel, Rudolph J., doing business as R. Stenzel Pickle Products, San Leandro, Calif. Bottled pickles, chili peppers, Italian style peppers, etc. 564,606, Sept. 30; Serial No. 599,599, published May 13, 1952. Class 46.

Sterling Tobacco Corp., The, New York, N. Y. Cigarettes. 564,818, Sept. 30; Serial No. 621,176. Class 17.

Stevens, Henry H., Inc., Flint, Mich. Transportation of household goods and miscellaneous freight, etc. 564,773, Sept. 30; Serial No. 614,172, published July 8, 1952. Class 105.

Superior Brands, Inc., New York, N. Y. Product containing processed cereal gum fractions, lecithin, and superglycerinated oils used by the baking trade. 564,567, Sept. 30; Serial No. 576,068, published June 24, 1952. Class 46.

Supreme Temple Daughters of the Nile, Portland, Oreg., and Buffalo, N. Y. Establishment and maintenance of membership in a national fraternal organization. 564,777, Sept. 30; Serial No. 614,174, published July 8, 1952. Class 100.

Sutliff & Case Co., Inc., Peoria, Ill. Medicinal preparations. 564,700, Sept. 30; Serial No. 615,419, published June 3, 1952. Class 18.

Sutton Shirt Corp., New York, N. Y. Men's outer shirts. 564,594, Sept. 30; Serial No. 590,842, published May 13, 1952. Class 39.

Swift & Company: *See*—
Swift and Company.

Swift & Company, Chicago, Ill. Gelatin and glycerine. 564,677, Sept. 30; Serial No. 613,247, published June 3, 1952. Class 18.

Swift and Company, to Swift & Company, Chicago, Ill. Lard, lard compounds, shortenings, pressed meats, etc. 38,538, re-renewed July 1, 1952. O. G. Sept. 30. Class 46.

Tay, Eugenia, Brooklyn, N. Y. Chocolate candy. 564,726, Sept. 30; Serial No. 617,893, published June 17, 1952. Class 46.

Tex-O-Kan Flour Mills Co., doing business as Burrus Feed Mills, Fort Worth, Dallas, McKinney, and San Benito, Tex., now by change of name Burrus Mills, Incorporated. Dairy, hog, livestock, dog and poultry feeds. 564,554, Sept. 30; Serial No. 572,139, published June 17, 1952. Class 46.

Tex-Ranch Woolens, Inc.: *See*—
Ziock Industries, Inc.

Theobald Industries, The, Kearny, N. J. General household and industrial cleanser. 564,633, Sept. 30; Serial No. 606,637, published July 1, 1952. Class 52.

Theobald Industries, The, Kearny, N. J. General household and industrial cleanser. 564,634, Sept. 30; Serial No. 606,818, published July 1, 1952. Class 52.

Thiss, Charles R., Minnenpolis, Minn. Glasswure. 564,784, Sept. 30; Serial No. 575,310. Class 33.

Thomas-Varney Incorporated, New York, N. Y. Advertising goods and services. 564,772, Sept. 30; Serial No. 600,158, published July 8, 1952. Class 101.

Transparent Products Co. Inc., New York, N. Y. Tape having pressure sensitive adhesive backing. 564,579, Sept. 30; Serial No. 582,150, published July 8, 1952. Class 5.

Triple F Foods Company, Wapakoneta, Ohio. Concentrated whey food product. 564,569, Sept. 30; Serial No. 578,112, published Oct. 3, 1950. Class 46.

Twinkle Products Co., Elmira, N. Y. Artificial flavoring concentrates. 564,743, Sept. 30; Serial No. 619,527, published July 1, 1952. Class 46.

Tyson, Ray, Wichita, Kans. Prefabricated houses. 564,791, Sept. 30; Serial No. 599,852. Class 12.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Ungar, Jesse, doing business under the name and style of Comex Sales Company, New York, N. Y. Olive oil. 564,754, Sept. 30; Serial No. 621,431, published May 6, 1952. Class 46.

United Chemicals, Inc., Providence, R. I. Luminous coated plastic sheets and strips. 564,733, Sept. 30; Serial No. 618,311, published July 1, 1952. Class 50.

United Press Associations, New York, N. Y. Newspaper feature column. 292,815, renewed Mar. 29, 1952. O. G. Sept. 30. Class 38.

United Press Associations, New York, N. Y. Newspaper feature column. 293,182, renewed Apr. 12, 1952. O. G. Sept. 30. Class 38.

United Research Laboratories, Inc., Philadelphia, Pa. Powdered pharmaceutical. 564,620, Sept. 30; Serial No. 604,239, published July 1, 1952. Class 18.

United States Rubber Company, New York, N. Y. Woolen fabrics. 564,776, Sept. 30; Serial No. 599,724, published Nov. 27, 1951. Class 42.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 564,645, Sept. 30; Serial No. 609,111, published June 17, 1952. Class 18.

Valley Co-op Oil Mill, Harlingen, Tex. Cottonseed meal, cottonseed cake, and cottonseed pellets. 564,755, Sept. 30; Serial No. 621,691, published June 17, 1952. Class 46.

Viobin Corporation, Monticello, Ill. Desiccated and defatted thyroid. 564,701, Sept. 30; Serial No. 615,424, published June 17, 1952. Class 18.

Vista Manufacturing Company, New York, N. Y. Men's sport shirts, jackets, pajamas, etc. 564,699, Sept. 30; Serial No. 615,360, published Apr. 29, 1952. Class 39.

Wahl Company, The, by Eversharp, Inc., Chicago, Ill. Fountain pens. 297,913, Oct. 4, 1932. Republished Sept. 30. Class 37.

Wahl Company, The, to Eversharp, Inc., Chicago, Ill. Fountain pens and pencils. 298,427, renewed Oct. 25, 1952. O. G. Sept. 30. Class 37.

Ward Lumber Company, Aurora, Ill. Architectural and consultation services. 564,771, Sept. 30; Serial No. 594,822, published July 8, 1952. Class 100.

Wearever Shirt Co., Inc., New York, N. Y. Dress shirts, flannel shirts, sport shirts, etc. 564,664, Sept. 30; Serial No. 611,321, published May 20, 1952. Class 39.

Weinreich Brothers Company, New York, N. Y. Jewelry clasps, and jewelry clips. 564,649, Sept. 30; Serial No. 609,266, published June 3, 1952. Class 28.

Westinghouse Electric Corporation: *See*—
Westinghouse Electric & Manufacturing Company.
Westinghouse Electric and Manufacturing Company.

Westinghouse Electric and Manufacturing Company, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric heating elements. 294,201, renewed May 24, 1952. O. G. Sept. 30. Class 21.

Westinghouse Electric and Manufacturing Company, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Incandescent electric lamps. 294,205, renewed May 24, 1952. O. G. Sept. 30. Class 21.

Westinghouse Electric & Manufacturing Company, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric welders. 294,920, renewed June 14, 1952. O. G. Sept. 30. Class 21.

Whitfield Chemical Company: *See*—
Smith, Chester W.

Wilkin & Sons Limited, Tiptree, Essex, England. Fruit conserves, jams, marmalades, etc. 564,590, Sept. 30; Serial No. 589,353, published June 24, 1952. Class 46.

Winthrop-Stearns Inc., New York, N. Y. Medicinal and pharmaceutical preparations. 564,653, Sept. 30; Serial No. 609,896, published July 1, 1952. Class 18.

Wohl Shoe Company, St. Louis, Mo. Women's and misses' shoes, boots, etc. 298,484, renewed Oct. 25, 1952. O. G. Sept. 30. Class 39.

Wood, J. A., doing business as J. A. Wood Company, Phoenix, Ariz. Fresh vegetables. 564,765, Sept. 30; Serial No. 623,324, published June 10, 1952. Class 46.

Wood, J. A., Company: *See*—
Wood, J. A.

Wood, J. R., and Sons, Inc.: *See*—
Gross, Benjamin & Edward J., Co., Inc.

Wunsch, Julius A., doing business under the name The Cu-Lin Company, New York, N. Y. Sensonings. 564,598, Sept. 30; Serial No. 594,365, published July 1, 1952. Class 46.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Mineral composition for absorbing liquids such as water and oil from floors and like surfaces. 564,589, Sept. 30; Serial No. 588,351, published July 15, 1952. Class 52.

Wyeth Incorporated: *See*—
Anacin Company, The.
Wyeth, John, & Brother Incorporated.

Wyeth, John, & Brother Incorporated, to Wyeth Incorporated, Philadelphia, Pa. Preparation for use as hemorrhoidal suppositories. 295,749, renewed July 12, 1952. O. G. Sept. 30. Class 18.

Wyeth, John, & Brother Incorporated, to Wyeth Incorporated, Philadelphia, Pa. Preparation for use as vaginal suppositories. 295,750, renewed July 12, 1952. O. G. Sept. 30. Class 18.

Wynn, Clarence M., doing business as Wynoil Laboratories, Azusa, Calif. Hand, woodwork, and floor cleaner. 564,678, Sept. 30; Serial No. 613,392, published July 15, 1952. Class 52.

Wynoil Laboratories: *See*—
Wynn, Clarence M.

Yasukochi, Fred M., San Luis Rey, Calif., Fresh vegetables. 564,767, Sept. 30; Serial No. 623,816, published July 1, 1952. Class 46.

Ybry, Inc., to Ybry, Inc., New York, N. Y. Perfume, toilet water, and face powder. 294,611–13, renewed June 7, 1952. O. G. Sept. 30. Class 51.

Ybry, Inc., to Ybry, Inc., New York, N. Y. Perfume, toilet water, and face powder. 295,717, renewed July 12, 1952. O. G. Sept. 30. Class 51.

York Cone Company, York, Pa. Peppermint pattie mint (candy). 564,557, Sept. 30; Serial No. 573,697, published July 1, 1952. Class 46.

Ziock Industries, Inc., doing business as Tex-Ranch Woolens, Inc., Brownwood, Tex. Knitted and woven apparel fabrics. 564,576–7, Sept. 30; Serial Nos. 581,308–9, published July 8, 1952. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Raw and processed rubber latex. Heveatex Corporation. 293,904, May 10, 1932. Republished Sept. 30.

Rolls of fiber glass, synthetic fibers, and cotton wadding. American Air Filter Company, Inc. 564,661, Sept. 30; Serial No. 610,655, published June 3, 1952.

CLASS 2

Bins, Crop storage. Foodkeaper Co. 564,788, Sept. 30; Serial No. 594,267.

Boxes and cartons, Paper board. Container Corporation of America. 564,800, Sept. 30; Serial No. 606,755.

Canisters, Plastic. Rona Plastic Corp. 564,802, Sept. 30; Serial No. 608,017.

Cartons, Paper. G. E. Damrow. 298,579, renewed Nov. 1, 1952. O. G. Sept. 30.

Coin deposit units, Metal, non-registering. Money-Meters, Inc. 564,787, Sept. 30; Serial No. 587,282.

Receptacles, Unfilled. Paul Flato Sales Corporation. 564,582, Sept. 30; Serial No. 583,081, published Aug. 1, 1950.

Steel drums, drum heads and drum closures therefor. Rheem Manufacturing Company. 564,794, Sept. 30; Serial No. 601,948.

CLASS 4

Polish, Shoe. S. J. James. 564,801, Sept. 30; Serial No. 607,128.

Polishes. W. E. Clayton. 564,546, Sept. 30; Serial No. 541,567, published June 24, 1952.

Polishing preparation. Armstrong Cork Company. 298,945, renewed Nov. 15, 1952. O. G. Sept. 30.

CLASS 5

Gummed paper, heat seal paper, and gummed papers. Paper Manufacturers Co. 564,553, Sept. 30; Serial No. 567,206, published July 8, 1952.

Tape having pressure sensitive adhesive backing. Transparent Products Co. Inc. 564,579, Sept. 30; Serial No. 582,150, published July 8, 1952.

CLASS 6

Chemical preparation. Lehn & Fink Products Corporation. 564,759, Sept. 30; Serial No. 622,086, published July 1, 1952.

Chemical preparations. American Chemical Paint Company. 564,763, Sept. 30; Serial No. 622,915, published July 1, 1952.

Flux for soldering or brazing containing compounds of hydrazine. Mathieson Chemical Corporation. 564,753, Sept. 30; Serial No. 621,324, published June 17, 1952.

Insecticides, germicides, and fungicides. California Spray-Chemical Corporation. 294,838, renewed June 7, 1952. O. G. Sept. 30.

Lanolin alcohols, Mixture of liquid. Robinson-Wagner Co., Inc. 564,674, Sept. 30; Serial No. 612,872, published July 1, 1952.

Miticidal composition. The Dow Chemical Company. 564,761, Sept. 30; Serial No. 622,815, published July 1, 1952.

Organic hydroperoxides. Phillips Petroleum Company. 564,573, Sept. 30; Serial No. 580,945, published June 3, 1952.

Preparation sold in paste form for preserving and renovating leather hand bags, shoes, suitcases, etc. A. Heller. 564,623, Sept. 30; Serial No. 604,712, published July 15, 1952.

Stabilizing composition. M-S Mfg. Co. 564,631, Sept. 30; Serial No. 606,477, published July 1, 1952.

CLASS 9

Cartridges, Rifle. Federal Cartridge Corporation. 293,798, renewed May 3, 1952. O. G. Sept. 30.

CLASS 12

Pitch. Barrett Manufacturing Company. 88,452, re-renewed Sept. 24, 1952. O. G. Sept. 30.

Pitch, tar, and asphalt, Raw and partially prepared. Barrett Manufacturing Company. 86,773, re-renewed June 4, 1952. O. G. Sept. 30.

Prefabricated houses. R. Tyson. 564,791, Sept. 30; Serial No. 599,852.

Prepared weighting material such as barite or other heavy substance for making heavy concrete. Russon-Richards Processing Co., Inc. 564,795, Sept. 30; Serial No. 603,319.

Roofing felts and papers. Barrett Manufacturing Company. 88,659, re-renewed Oct. 15, 1952. O. G. Sept. 30.

CLASS 13

Chemical feeders designed to be connected to water lines. Reynolds-Shaffer Co. 564,785, Sept. 30; Serial No. 577,985.

Metal clamp for use in splicing cable. Newberry Cable Splicing Co. 564,804, Sept. 30; Serial No. 610,295.

CLASS 14

Alloys of silver, of platinum, of palladium, and of gold. M. Sherman. 564,799, Sept. 30; Serial No. 605,375.

Steel sheets. Bethlehem Steel Company. 295,663, renewed July 5, 1952. O. G. Sept. 30.

CLASS 15

Oils, Coal tar. Barrett Manufacturing Company. 86,872, re-renewed June 11, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,309, renewed June 28, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,312–13, renewed June 28, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,315–16, renewed June 28, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,318, renewed June 28, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,323, renewed June 28, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,325, renewed June 28, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,893, renewed July 19, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,906, renewed July 19, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,908–9, renewed July 19, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,912, renewed July 19, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,914, renewed July 19, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,916, renewed July 19, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,918, renewed July 19, 1952. O. G. Sept. 30.

Oils, Motor fuel, and lubricating oils. Phillips Petroleum Company. 295,920, renewed July 19, 1952. O. G. Sept. 30.

CLASS 17

Cigarettes. The Sterling Tobacco Corp. 564,818, Sept. 30; Serial No. 621,176.

CLASS 18

Adhesive medicated shields, or pads. The Scholl Mfg. Co., Inc. 564,679, Sept. 30; Serial No. 613,479, published June 3, 1952.

Adrenal cortical hormone preparation. Ciba Limited. 564,641, Sept. 30; Serial No. 607,943, published June 24, 1952.

Almond oil, arnica, benzoin, boric acid, etc. Borun Bros. 564,597, Sept. 30; Serial No. 592,357, published June 3, 1952.

Aluminum chloride for use in medicinal astringents. Rehels Company, Inc. 564,632, Sept. 30; Serial No. 606,487, published June 3, 1952.
Anti-bacterial and anti-viral preparations. American Cyanamid Company. 564,599, Sept. 30; Serial No. 594,429, published June 3, 1952.
Anti-convulsant. American Cyanamid Company. 564,748, Sept. 30; Serial No. 620,454, published June 17, 1952.
Antihistaminic preparation. American Cyanamid Company. 564,650, Sept. 30; Serial No. 609,272, published June 3, 1952.
Antirheumatic, analgesic and antipyretic preparation. Geigy Company, Inc. 564,658, Sept. 30; Serial No. 610,362, published June 17, 1952.
Antiseptic lotion. Johnson & Johnson. 564,706, Sept. 30; Serial No. 615,645, published June 17, 1952.
Blood substitute. Abbott Laboratories. 564,659, Sept. 30; Serial No. 610,398, published July 1, 1952.
Capsules. W. P. Mooney. 564,602, Sept. 30; Serial No. 596,112, published June 3, 1952.
Crystalline testosterone hormone preparation. Schering Corporation. 564,638, Sept. 30; Serial No. 607,607, published June 3, 1952.
Diuretics. H. K. Mulford Co. 38,615, re-renewed July 15, 1952. O. G. Sept. 30.
Elixir and iron tonic. S. & C. Products Company. 564,687, Sept. 30; Serial No. 614,218, published June 3, 1952.
Enzyme preparation. Abbott Laboratories. 564,637, Sept. 30; Serial No. 607,407, published June 3, 1952.
Estrogenic preparation. Sharp & Dohme, Incorporated. 564,648, Sept. 30; Serial No. 609,209, published June 3, 1952.
Extract of strophanthin G. Nativelle Inc. 564,570, Sept. 30; Serial No. 578,159, published June 3, 1952.
Food supplement. Health Champions, Inc. 564,691, Sept. 30; Serial No. 614,660, published June 3, 1952.
Gelatin and glycerine. Swift & Company. 564,677, Sept. 30; Serial No. 613,247, published June 3, 1952.
Hypnotic or sedative preparations. Manufactures de Produits Chimiques du Nord Etablissements Kuhlmann. 566,828, published June 10, 1952.
Iron, iodine, and mineral preparation. Makers of Kal, Inc. 564,682, Sept. 30; Serial No. 613,934, published June 17, 1952.
Laxative, Liquid tonic. J. E. Respondek. 564,586, Sept. 30; Serial No. 587,052, published June 17, 1952.
Liquid chemical preparation for the treatment of sores, warts, etc. N. Skrmetta. 564,595, Sept. 30; Serial No. 591,113, published June 3, 1952.
Liver cathartic and laxative medicine. The Chattanooga Medicine Company. 294,029, May 17, 1932. Republished Sept. 30.
Liver medicine. The Chattanooga Medicine Company. 295,452, July 5, 1932. Republished Sept. 30.
Medical preparation. Physicians and Hospitals Supply Company, Inc. 564,744, Sept. 30; Serial No. 619,709, published June 3, 1952.
Medicament. C. J. Smith. 564,793, Sept. 30; Serial No. 601,578.
Medicated lotion. Ez-Oke Co. 564,745, Sept. 30; Serial No. 619,933, published June 17, 1952.
Medicinal and pharmaceutical preparations. Winthrop-Stearns Inc. 564,653, Sept. 30; Serial No. 609,896, published July 1, 1952.
Medicinal composition of antacids. Arlington Laboratories, Inc. 564,643, Sept. 30; Serial No. 608,694, published June 3, 1952.
Medicinal preparation. Bengue Inc. 564,584, Sept. 30; Serial No. 584,961, published June 17, 1952.
Medicinal preparation. Gynecic Laboratories. 564,639, Sept. 30; Serial No. 607,670, published June 3, 1952.
Medicinal preparation. The Upjohn Company. 564,645, Sept. 30; Serial No. 609,111, published June 17, 1952.
Medicinal preparations. Sutliff & Case Co., Inc. 564,700, Sept. 30; Serial No. 615,419, published June 3, 1952.
Medicinal substance. Merck & Co., Inc. 564,618, Sept. 30; Serial No. 603,744, published June 10, 1952.
Medicines, Veterinary. Prof. Dr. Georg. Schmid. 564,747, Sept. 30; Serial No. 620,325, published June 17, 1952.
Mineral mixture. General Mills, Inc. 564,737, Sept. 30; Serial No. 618,739, published July 1, 1952.
Penicillin-containing preparation. Sharp & Dohme, Incorporated. 564,647, Sept. 30; Serial No. 609,206, published June 3, 1952.
Petrolatum for medicinal purposes. L. Sonneborn Sons, Inc. 297,067, Aug. 30, 1932. Republished Sept. 30.
Pharmaceutical preparation. Casimir Funk Laboratories, Inc. 564,578, Sept. 30; Serial No. 581,861, published June 3, 1952.
Pharmaceutical preparation. Pan Pharmacals, Inc. 564,616, Sept. 30; Serial No. 603,077, published June 3, 1952.
Pharmaceutical solution. A. B. Del Bueno. 564,809, Sept. 30; Serial No. 615,212.
Powdered pharmaceutical. United Research Laboratories, Inc. 564,620, Sept. 30; Serial No. 604,239, published July 1, 1952.
Preparation for the control of diarrhea. Maltbie Laboratories, Inc. 564,551, Sept. 30; Serial No. 566,353, published June 3, 1952.
Preparation for the treatment of constination and liver disturbances. International Affiliated Corp. 564,676, Sept. 30; Serial No. 613,073, published June 17, 1952.
Preparation for use as hemorrhoidal suppositories. John Wyeth & Brother Incorporated. 295,749, renewed July 12, 1952. O. G. Sept. 30.
Preparation for use as vaginal suppositories. John Wyeth & Brother Incorporated. 295,750, renewed July 12, 1952. O. G. Sept. 30.
Preparation used in the treatment of anemia. M. Sahyun. 564,614, Sept. 30; Serial No. 602,339, published June 3, 1952.
Preparation useful in the treatment of gastro intestinal conditions. The Wm. S. Merrell Company. 564,751, Sept. 30; Serial No. 620,519, published June 17, 1952.
Reducing tablets. The Hospitality Corporation. 564,644, Sept. 30; Serial No. 608,991, published June 3, 1952.
Salve. J. W. Smith. 564,668, Sept. 30; Serial No. 611,546, published June 3, 1952.
Sedative. Stayner Corporation. 564,680, Sept. 30; Serial No. 614,171, published June 3, 1952.
Thyroid, Desiccated and defatted. Viobin Corporation. 564,701, Sept. 30; Serial No. 615,424, published June 17, 1952.
Tonic compound. The Purdue Frederick Co. 46,229, Sept. 12, 1905. Corrected. O. G. Sept. 30. (Formerly class 6.)
Tonic preparation, General. The Sydney Ross Co. 295,752, renewed July 12, 1952. O. G. Sept. 30.
Vaso-dilator for the treatment of blood hypertension. Rougier Freres. 564,568, Sept. 30; Serial No. 577,456, published June 3, 1952.
Vitamin B_{12}. Armour and Company. 564,736, Sept. 30; Serial No. 618,615, published June 17, 1952.
Vitamin-mineral preparation. American Cyanamid Company. 564,695, Sept. 30; Serial No. 615,101, published June 17, 1952.
Vitamin preparation. Dwarfies Corporation. 564,627, Sept. 30; Serial No. 605,851, published June 17, 1952.
Vitamin tonic. Kegan Laboratory, Inc. 564,652, Sept. 30; Serial No. 609,483, published June 3, 1952.
Vitamins and concentrated nutritional food supplements. The Q-V Corporation. 564,583, Sept. 30; Serial No. 584,347, published June 17, 1952.
Weight reducing tablets. S. T. S. Inc. 564,757, Sept. 30; Serial No. 621,908, published July 1, 1952.

CLASS 19

Brake adjusting mechanism. R. H. Shively. 564,561, Sept. 30; Serial No. 561,266, published Oct. 31, 1950.

CLASS 21

Electric heating elements. Westinghouse Electric and Manufacturing Company. 294,201, renewed May 24, 1952. O. G. Sept. 30.
Electric welders. Westinghouse Electric & Manufacturing Company. 294,920, renewed June 14, 1952. O. G. Sept. 30.
Lamps, Incandescent electric. Westinghouse Electric and Manufacturing Company. 294,205, renewed May 24, 1952. O. G. Sept. 30.

CLASS 22

Golf clubs. The Billings & Spencer Company. 296,507, renewed Aug. 9, 1952. O. G. Sept. 30.

CLASS 23

Belt loader, Continuous. Athey Products Corporation. 564,651, Sept. 30; Serial No. 609,328, published June 3, 1952.
Compass, chain and knife set, Combination. Imperial Knife Company, Inc. 564,663, Sept. 30; Serial No. 611,228, published June 3, 1952.
Cutlery. Geo. H. Lawrence, Limited. 294,664, June 7, 1932. Republished Sept. 30.
Dairy products processing machinery and equipment. The Creamery Package Mfg. Company. 564,542, Sept. 30; Serial No. 527,916, published June 10, 1952.
Drill bits. Avildsen Tools & Machines, Inc. 564,735, Sept. 30; Serial No. 618,526, published June 3, 1952.
Files and rasps. Nicholson File Company. 564,559, Sept. 30; Serial No. 552,365, published June 3, 1952.
Fire extinguishers. Portable hand, and stationary automatic fire extinguishers. Merchant & Evans Company. 295,614, renewed July 5, 1952. O. G. Sept. 30.
Graders, Potato, potato seed treating machines, bin loaders, etc. Boggs Manufacturing Corporation. 294,646, renewed June 7, 1952. O. G. Sept. 30.
Hydraulic cylinder linear actuators. Benjamin Lassman & Son. 564,629, Sept. 30; Serial No. 606,146, published June 10, 1952.
Jet aspirators, Flowing fluid. Croll-Reynolds Co. Inc. 564,592, Sept. 30; Serial No. 590,548, published June 3, 1952.
Knitting machines. Kidde Manufacturing Co. Inc. 564,697–8. Sept. 30; Serial Nos. 615,329–30, published June 3, 1952.
Printing machines and parts thereof. Dapag (1943) Limited. 564,758. Sept. 30; Serial No. 621,955, published June 3, 1952.
Pulleys and assemblies. The American Pulley Company. 564,636, Sept. 30; Serial No. 607,279, published June 3, 1952.
Pumps and parts thereof. The Allen-Sherman-Hoff Company. 297,989, renewed Oct. 11, 1952. O. G. Sept. 30.

Pumps, Vacuum. Central Scientific Company. 298,907, renewed Nov. 15, 1952. O. G. Sept. 30.
Slicing machines. American Slicing Machine Company. 296,340, renewed Aug. 2, 1952. O. G. Sept. 30.
Sprayer, Liquid. Miles Laboratories, Inc. 564,707, Sept. 30; Serial No. 615,786, published June 3, 1952.
Wrenches. Coes Wrench Company. 88,616, re-renewed Oct. 8, 1952. O. G. Sept. 30.

CLASS 24

Washing machines, Cloth. Rodney Hunt Machine Co. 291,766, renewed Feb. 23, 1952. O. G. Sept. 30.

CLASS 26

Blood testing apparatus. Morris Instrument Corporation. 559,660, June 3, 1952. Corrected. O. G. Sept. 30.
Photographic apparatus. Peerless Camera Stores, Inc. 564,605, Sept. 30; Serial No. 599,578, published June 10, 1952.
Spark plug testers. Champion Spark Plug Company. 298,552, renewed Nov. 1, 1952. O. G. Sept. 30.

CLASS 27

Clocks. Century Product Works, Inc. 564,725, Sept. 30; Serial No. 617,863, published June 17, 1952.
Watches. Freudenheim Bros., Inc. 564,814, Sept. 30; Serial No. 617,145.
Watches. Orano Corporation. 564,562, Sept. 30; Serial No. 574,374, published June 3, 1952.
Watches, clocks, and parts thereof. Reliable Stores Corporation. 564,591, Sept. 30; Serial No. 589,869, published June 3, 1952.

CLASS 28

Bracelets, wrist watch bracelets. Bruner-Ritter, Inc. 564,718, Sept. 30; Serial No. 616,657, published June 17, 1952.
Jewelry. Levy-Anderson Co., Inc. 564,667, Sept. 30; Serial No. 611,481, published June 3, 1952.
Jewelry. A. L. Lindroth Company. 564,708, Sept. 30; Serial No. 615,939, published June 17, 1952.
Jewelry. S. S. Siebenberg. 564,817, Sept. 30; Serial No. 619,588.
Jewelry clasps, and jewelry clips. Weinreich Brothers Company. 564,649, Sept. 30; Serial No. 609,266, published June 3, 1952.
Jewelry, Costume. E. R. Neyhard. 564,705, Sept. 30; Serial No. 615,499, published June 17, 1952.
Jewelry, Men's and women's costume. Exhibit Sales Company. 564,713, Sept. 30; Serial No. 616,092, published June 17, 1952.
Medallions, finger rings, necklaces, and bracelets. R. J. Corcoran. 564,657, Sept. 30; Serial No. 610,259, published June 10, 1952.
Pins, Lapel, and brooches. Arthur Murray Enterprises, Inc. 564,635, Sept. 30; Serial No. 607,229, published June 3, 1952.
Rings and mountings therefor, Finger. Benjamin & Edward J. Gross Co., Inc. 294,474, renewed May 31, 1952. O. G. Sept. 30.
Watch bracelets. Speidel Corporation. 564,712, Sept. 30; Serial No. 616,060, published June 17, 1952.
Watch bracelets. Speidel Corporation. 564,810, Sept. 30; Serial No. 616,059.
Watch bracelets. Speidel Corporation. 564,811, Sept. 30; Serial No. 616,061.

CLASS 31

Filters, fuel oil. Robert Barclay, Inc. 564,797–8, Sept. 30; Serial Nos. 604,183–4.
Pan like receptacles commonly used in refrigerators. Ranney Refrigerator Company. 564,792, Sept. 30; Serial No. 600,078.
Refrigerators, Electric. Malleable Iron Range Company. 297,152, renewed Sept. 6, 1952. O. G. Sept. 30.

CLASS 32

Beds, Metal. Fischer Bed Spring Co. 564,789, Sept. 30; Serial No. 595,717.
Beds, Sofa. Charlton Company, Inc. 564,781, Sept. 30; Serial No. 559,679.
Furniture, Wood. M. R. Roberts. 564,786, Sept. 30; Serial No. 584,775.
Window shades, Plastic. The Chas W. Breneman Company. 564,816, Sept. 30; Serial No. 617,831.

CLASS 33

Glass, Laminated. American Window Glass Company. 564,684, Sept. 30; Serial No. 614,031, published June 17, 1952.
Glass, Sheet. American Window Glass Company. 564,683, Sept. 30; Serial No. 614,030, published June 17, 1952.
Glass, Sheet. American Window Glass Company. 564,685. Sept. 30; Serial No. 614,032, published June 17, 1952.
Glasses, Drinking, and glass bowls. L. M. Rosenfeld. 564,805, Sept. 30; Serial No. 612,761.
Glassware. C. R. Thiss. 564,784, Sept. 30; Serial No. 575,310.
Watch crystals. American Plasticraft Company. 564,585, Sept. 30; Serial No. 585,305, published June 3, 1952.

CLASS 37

Paper. A. B. Dick Company. 294,363, May 24, 1932. Republished Sept. 30.
Paper. Oxford Paper Company. 298,869, renewed Nov. 8, 1952. O. G. Sept. 30.
Paper products. Hano Paper Corporation. 279,422, Jan. 13, 1931. Republished Sept. 30.
Pens, Fountain. The Wahl Company. 297,913, Sept. 4, 1932. Republished Sept. 30.
Pens, Fountain, and pencils. The Wahl Company. 298,427, renewed Oct. 25, 1952. O. G. Sept. 30.

CLASS 38

Newspaper feature column. United Press Associations. 292,815, renewed Mar. 29, 1952. O. G. Sept. 30.
Newspaper feature column. United Press Associations. 293,182, renewed Apr. 12, 1952. O. G. Sept. 30.

CLASS 39

Apparel, Wearing. Phillips Petroleum Company. 295,326, renewed June 28, 1952. O. G. Sept. 30.
Basque shirts and sweaters, Men's and boys'. Barclay Knitwear Co., Inc. 564,807, Sept. 30; Serial No. 614,236.
Caps, hats, sport coats, etc., Men's, women's, misses', and children's. William Skinner & Sons. 564,722, Sept. 30; Serial No. 617,318, published Apr. 29, 1952.
Clothing, Men's. Joseph H. Cohen & Sons, Inc. 564,622, Sept. 30; Serial No. 604,357, published Apr. 29, 1952.
Corsets, girdles, brassières, etc. Kops Bros., Inc. 295,200, renewed June 21, 1952. O. G. Sept. 30.
Diapers. Jonesville Products Company. 564,790, Sept. 30; Serial No. 596,999.
Diapers, shirts, pinafores, etc., Infants'. Southern Manhattan Infantswear Co. 564,813, Sept. 30; Serial No. 616,734.
Dungarees, Boys'. Hortex Manufacturing Co., Inc. 564,688, Sept. 30; Serial No. 614,505, published June 24, 1952.
Garments. Regal Knitting Co. Inc. 290,746, Jan. 12, 1932. Republished Sept. 30.
Garments, Men's, boys', women's and children's outer. The Silvertex Company. 564,732, Sept. 30; Serial No. 618,307, published May 27, 1952.
Gloves and mittens. The Boss Manufacturing Company. 87,151, re-renewed July 2, 1952. O. G. Sept. 30.
Hats and caps, Men's and boys'. Champ Hats, Inc. 564,720, Sept. 30; Serial No. 616,940, published Apr. 29, 1952.
Hats and hat bodies. Merrimac Hat Corporation. 444,721, Sept. 30; Serial No. 525,649, published June 24, 1952.
Hats for men. Hat Corporation of America. 564,730, Sept. 30; Serial No. 618,087, published Apr. 29, 1952.
Hats, Ladies'. Simon Millinery Co. 564,717, Sept. 30; Serial No. 616,572, published Apr. 29, 1952.
Hats, Women's. John-Frederics, Inc. 564,738, Sept. 30; Serial No. 618,744, published Apr. 29, 1952.
Helmets. Hawley Products Company. 564,716, Sept. 30; Serial No. 616,479, published Apr. 29, 1952.
Hosiery, Ladies'. Allsheer Hosiery Mills, Inc. 564,819, Sept. 30; Serial No. 622,371.
Hosiery, Ladies'. Nokle & Horst Company. 564,808, Sept. 30; Serial No. 614,711.
Jackets, Men's. California Sportwear Company. 564,610, Sept. 30; Serial No. 601,600, published May 20, 1952.
Neckties and scarves, Men's. Dominique France, Inc. 564,640, Sept. 30; Serial No. 607,742, published May 27, 1952.
Neckwear. Frank & Meyer Neckwear Co. 564,729, Sept. 30; Serial No. 618,085, published May 27, 1952.
Pajamas, Ladies'. Pullman Pajamas, Inc. 564,778, Sept. 30; Serial No. 525,106.
Pajamas, Men's. Pullman Pajamas, Inc. 564,779, Sept. 30; Serial No. 525,107.
Pants, Boys'. De Luxe Wash Suit Co. Inc. 564,803, Sept. 30; Serial No. 610,047.
Panty girdles. Rosalind Underwear Company, Inc. 564,806, Sept. 30; Serial No. 612,826.
Ready-to-wear coats, vests, trousers, and overcoats, Men's and boys'. B. Kuppenheimer and Co. Inc. 564,696, Sept. 30; Serial No. 615,227, published May 13, 1952.
Scarfs, ties, skirts, etc. Custom Scarfs, Inc. 564,721, Sept. 30; Serial No. 617,141, published Apr. 29, 1952.
Shirts, Dress, Flannel shirts, sport shirts, etc. Wearever Shirt Co., Inc. 564,664, Sept. 30; Serial No. 611,321, published May 20, 1952.
Shirts, jackets, pajamas, etc., Men's sport. Vista Manufacturing Company. 564,699, Sept. 30; Serial No. 615,360, published Apr. 29, 1952.
Shirts, Men's outer. Sutton Shirt Corp. 564,594, Sept. 30; Serial No 590,842, published May 13, 1952.
Shirts, underwear, pajamas, etc., Men's and boys' under and outer. L. Gang. 564,615, Sept. 30; Serial No. 602,940, published Apr. 29, 1952.
Shoes. Melville Shoe Corporation. 297,564, Sept. 20, 1932. Republished Sept. 30.
Shoes, boots, etc., Women's and misses'. Wohl Shoe Company. 298,484, renewed Oct. 25, 1952. O. G. Sept. 30.
Sportswear. Phelps-Terkel, Inc. 564,566, Sept. 30; Serial No. 576,012, published May 20, 1952.

Suits, Overcoats, topcoats, etc., Men's and boys'. The H. A. Seinsheimer Company. 564,655, Sept. 30; Serial No. 610,104, published May 20, 1952.
Suits, Swim. Sea Modes, Inc. 444,720, Sept. 30; Serial No. 513,641, published May 13, 1952.
Suits, topcoats, overcoats, etc., Men's. Wm. P. Goldman & Bros., Inc. 564,715, Sept. 30; Serial No. 616,289, published Apr. 29, 1952.
Suits, topcoats, overcoats, slacks, etc., Men's. Wm. P. Goldman & Bros., Inc. 564,727, Sept. 30; Serial No. 617,914, published Apr. 29, 1952.
Suits, topcoats, reefers, etc., Men's and boys'. Pincus Bros. Incorporated. 564,731, Sept. 30; Serial No. 618,179, published Apr. 29, 1952.
Sweatbands. Herman Barz, Inc. 564,711, Sept. 30; Serial No. 615,967, published May 20, 1952.
Topcoats and overcoats, Men's. Brody Clothing Company. 564,654, Sept. 30; Serial No. 610,045, published May 27, 1952.
Undershirts and sport shirts, Men's, women's, and children's. D. L. McDonald. 564,723, Sept. 30; Serial No. 617,669, published May 20, 1952.
Wearing apparel, Men's and boys'. Cape Ann Manufacturing Company. 564,728, Sept. 30; Serial No. 618,025, published Apr. 29, 1952.

CLASS 42

All-silk crepe. C. Goldman. 287,012, renewed Sept. 8, 1951. O. G. Sept. 30.
Fabrics in the piece, Textile. D. B. Fuller & Co., Inc. 564,766, Sept. 30; Serial No. 623,347, published May 13, 1952.
Fabrics, Knitted and woven apparel. Ziock Industries, Inc. 564,576-7, Sept. 30; Serial Nos. 581,308-9, published July 8, 1952.
Fabrics, Textile. Brand & Oppenheimer Incorporated. 564,681, Sept. 30; Serial No. 613,703, published July 8, 1952.
Fabrics, Woolen. United States Rubber Company. 564,776, Sept. 30; Serial No. 599,724, published Nov. 27, 1951.
Napkins, Cocktail, place mat napkin sets, and guest towels. C. F. Levine. 564,770, Sept. 30; Serial No. 625,744, published July 8, 1952.

CLASS 44

Dressings, bandages, and artificial sponges. Societe Anonyme Novacel (Nouvelles Applications Chimiques et Cellulosiques). 564,604, Sept. 30; Serial No. 596,874, published July 8, 1952.

CLASS 46

Alfalfa in its natural state, chopped alfalfa, dehydrated alfalfa, etc. Archer-Daniels-Midland Company. 564,750, Sept. 30; Serial No. 621,648, published July 8, 1952.
Bacon. Houston Packing Company. 564,719, Sept. 30; Serial No. 616,823, published June 24, 1952.
Bakery products. The Grand Union Company. 564,624, Sept. 30; Serial No. 604,778, published June 24, 1952.
Beef, Ground, and veal cutlets. Urban N. Patman, Inc. 564,796, Sept. 30; Serial No. 603,415.
Bread. Federal Milling Company. 86,756, re-renewed May 28, 1952. O. G. Sept. 30.
Bread. Koepplinger's Bakery. 564,580, Sept. 30; Serial No. 582,485, published June 10, 1952.
Butter. American Stores Company. 298,803, renewed Nov. 8, 1952. O. G. Sept. 30.
Butter, margarine, cheese, and ice cream. L. Peters. 564,709-10, Sept. 30; Serial Nos. 615,942-3, published June 17, 1952.
Candies, Mint flavored. The O. P. Baur Confectionery Company. 564,558, Sept. 30; Serial No. 550,892, published June 24, 1952.
Candy. King Candy Company. 564,769, Sept. 30; Serial No. 624,275, published June 17, 1952.
Candy, Chocolate. E. Tay. 564,726, Sept. 30; Serial No. 617,893, published June 17, 1952.
Canned citrus fruits, and canned citrus fruit juices. Snively Groves, Inc. 564,619, Sept. 30; Serial No. 603,865, published May 13, 1952.
Canned fish. Bivar & Ca., Lda. 564,756, Sept. 30; Serial No. 621,805, published June 3, 1952.
Canned fish. Conservas Cerqueira, Limitada. 564,600, Sept. 30; Serial No. 594,694, published June 24, 1952.
Canned fish. Fábrica de Conservas Madrugada, Limitada. 564,593, Sept. 30; Serial No. 590,784, published June 17, 1952.
Canned herring. Aktiebolaget Sveriges Forenade Konservfabriker. 564,670, Sept. 30; Serial No. 612,104, published July 8, 1952.
Canned peas. Pictsweet Foods, Inc. 564,680, Sept. 30; Serial No. 613,682, published June 24, 1952.
Canned tuna. Hawaiian Tuna Packers, Limited. 564,749, Sept. 30; Serial No. 620,504, published May 6, 1952.
Canned tuna. E. M. Nielsen. 564,815, Sept. 30; Serial No. 617,310.
Canned vegetables. The Larsen Company. 564,768, Sept. 30; Serial No. 624,037, published June 17, 1952.
Canned vegetables and canned fruits. Hickmott Canning Co. 564,692, Sept. 30; Serial No. 614,700, published June 10, 1952.
Cereal breakfast foods. Kellogg Company. 564,746, Sept. 30; Serial No. 620,314, published June 3, 1952.
Cheese. Bel Paese Sales Co. Inc. 564,675, Sept. 30; Serial No. 613,043, published June 3, 1952.
Cheese. Cheese Producers' Marketing Association. 564,702, Sept. 30; Serial No. 615,439, published July 1, 1952.
Cheese. Locatelli Inc. 564,693, Sept. 30; Serial No. 615,015, published May 20, 1952.
Cheese. Muther & Cie. A. G. 564,565, Sept. 30; Serial No. 574,667, published July 1, 1952.
Cheese product. Kraft Foods Company. 564,548, Sept. 30; Serial No. 550,706, published July 1, 1952.
Chestnuts; dried fruits, canned fruits, and fruits preserved in brine, etc. Istituto Nazionale per il Commercio Estero. 564,775, Sept. 30; Serial No. 560,896, published June 24, 1952.
Chocolate coatings, syrup toppings, and crushed fruits. Chillo Products Co. 564,550, Sept. 30; Serial No. 566,212, published June 10, 1952.
Coffee. Atwood Coffee Company. 564,724, Sept. 30; Serial No. 617,691, published July 1, 1952.
Coffee. W. E. Cunningham. 564,672, Sept. 30; Serial No. 612,308, published May 20, 1952.
Cookies. Blue Jay Food Products Co., Inc. 564,734, Sept. 30; Serial No. 618,479, published June 24, 1952.
Cookies and candies and chewing gum. W. Boyd. 564,608, Sept. 30; Serial No. 601,137, published July 1, 1952.
Cookies, crackers, and coffee. Griggs, Cooper & Company. 564,740, Sept. 30; Serial No. 618,962, published June 17, 1952.
Dairy products. Knudsen Creamery Co. of California. 564,665, Sept. 30; Serial No. 611,430, published June 24, 1952.
Dairy products. Knudsen Creamery Co. of California. 564,666, Sept. 30; Serial No. 611,435, published June 24, 1952.
Feed, Animal. Consolidated Products Company. 564,742, Sept. 30; Serial No. 619,190, published June 10, 1952.
Feed, Stock, supplemental dairy feed, hog and pig feed, etc. Flour Mills of America, Inc. 564,762, Sept. 30; Serial No. 622,817, published July 1, 1952.
Feed supplements. Midwest Dried Milk Company. 564,782, Sept. 30; Serial No. 565,570.
Feeds, Dairy, hog, livestock, dog and poultry. Tex-O-Kan Flour Mills Co. 564,554, Sept. 30; Serial No. 572,139, published June 17, 1952.
Fish and parts thereof, etc., Fresh frozen and smoked frozen whole. John Penny & Sons, Limited. 564,575, Sept. 30; Serial No. 581,286, published June 24, 1952.
Fish and parts thereof, etc., Fresh frozen, smoked frozen, salted and canned whole. John Penny & Sons, Limited. 564,574, Sept. 30; Serial No. 581,285, published June 24, 1952.
Flavoring concentrates, Artificial. Twinkle Products Co. 564,743, Sept. 30; Serial No. 619,527, published July 1, 1952.
Flour, Self-rising. W. I. Grove. 296,961, renewed Aug. 30, 1952. O. G. Sept. 30.
Flour, Wheat. Standard Milling Company. 564,543, Sept. 30; Serial No. 528,894, published May 13, 1952.
Food. A. M. Duvic. 564,642, Sept. 30; Serial No. 607,945, published July 1, 1952.
Food, Dog. Baker Food Products Company. 564,694, Sept. 30; Serial No. 615,042, published July 1, 1952.
Food product, Concentrated whey. Triple F Foods Company. 564,569, Sept. 30; Serial No. 578,112, published Oct. 3, 1950.
Food product, Solid. H. B. Hunter. 564,783, Sept. 30; Serial No. 574,659.
Food products, Various. Southwind Orchards. 564,625-6, Sept. 30; Serial Nos. 605,448-9, published July 1, 1952.
Food, Protein breakfast. Avoset Company. 564,646, Sept. 30; Serial No. 609,117, published June 17, 1952.
Foods and beverages, Restaurant, lunch-counter and fountain. Dewey's, Inc. 564,596, Sept. 30; Serial No. 592,018, published July 8, 1952.
Doughnut mix, Prepared. E. E. Lindsey. 564,628, Sept. 30; Serial No. 605,862, published June 24, 1952.
Fruit conserves, jams, marmalades, etc. Wilkin & Sons Limited. 564,590, Sept. 30; Serial No. 589,353, published June 24, 1952.
Fruits, Dried, and raisins. Naman Packing Company. 564,581, Sept. 30; Serial No. 582,643, published June 3, 1952.
Fruits, Fresh citrus. Gentile Bros. Company. 564,555, Sept. 30; Serial No. 572,170, published June 17, 1952.
Hams, bacon, and sausage. Armour and Company. 564,544, Sept. 30; Serial No. 529,853, published June 24, 1952.
Hush puppy mix. T. B. Chiles. 564,607, Sept. 30; Serial No. 599,814, published May 20, 1952.
Ice cream and sherbets. The Borden Company. 564,560, Sept. 30; Serial No. 556,553, published May 13, 1952.
Ice cream, cheddar cheese, creamed cottage cheese, etc. L. S. Heath & Sons, Inc. 564,611, Sept. 30; Serial No. 601,904, published June 10, 1952.
Ice cream cones. The Maryland Baking Company. 564,704, Sept. 30; Serial No. 615,497, published June 17, 1952.
Lard, lard compounds, shortenings, pressed meats, etc. Swift and Company. 38,538, re-renewed July 1, 1952. O. G. Sept. 30.
Lettuce, Fresh, and fresh melons. Salinas Valley Vegetable Exchange. 564,621, Sept. 30; Serial No. 604,329, published June 17, 1952.

Marshmallows, Chocolate covered. The Shotwell Mfg. Co. 564,563-4, Sept. 30; Serial Nos. 574,548-9, published July 1, 1952.
Meal, Cottonseed, cottonseed cake, and cottonseed pellets. Valley Co-op Oil Mill. 564,755, Sept. 30; Serial No. 621,691, published June 17, 1952.
Meat products, baking aids, seasoning materials, etc. John Sexton & Co. 564,571, Sept. 30; Serial No. 578,715, published June 10, 1952.
Nuts, Shelled. Federal Nut Co. Inc. 564,547, Sept. 30; Serial No. 544,658, published June 24, 1952.
Oleomargarine. Shedd-Bartush Foods, Inc. 564,587, Sept. 30; Serial No. 587,913, published June 24, 1952.
Olive oil. J. Ungar. 564,754, Sept. 30; Serial No. 621,431, published May 6, 1952.
Olive oil, canned fruits, canned vegetables, etc. Lekas & Drivas, Inc. 564,572, Sept. 30; Serial No. 580,489, published May 13, 1952.
Oysters, Frozen, and frozen cooked crab cakes. Blue Anchor Packing Co., Inc. 564,601, Sept. 30; Serial No. 595,490, published June 10, 1952.
Peanut butter, potato chips, and candy. Los Angeles Nut House. 564,752, Sept. 30; Serial No. 620,611, published May 6, 1952.
Peas, Frozen. Green Giant Company. 564,656, Sept. 30; Serial No. 610,212, published June 3, 1952.
Peppermint pattie mint (candy). York Cone Company. 564,557, Sept. 30; Serial No. 573,697, published July 1, 1952.
Pickles, Bottled, chili peppers, Italian style peppers, etc. R. J. Stenzel. 564,606, Sept. 30; Serial No. 599,599, published May 13, 1952.
Poultry concentrate, calf starter, hog concentrate, etc. Archer-Daniels-Midland Company. 564,540, Sept. 30; Serial No. 513,864, published July 4, 1950.
Poultry, Dressed. G. A. Sears. 564,760, Sept. 30; Serial No. 622,415, published June 17, 1952.
Poultry, Fresh dressed, and frozen poultry. Rockingham Poultry Marketing Co-Operative, Inc. 564,739, Sept. 30; Serial No. 618,817, published June 24, 1952.
Preparations in the form of cubes for making beef broth, chicken broth and vegetable broth. American Kitchen Products Company. 564,741, Sept. 30; Serial No. 619,062, published June 10, 1952.
Product containing processed cereal gum fractions, lecithin, and superglycerinated oils used by the baking trade. Superior Brands, Inc. 564,567, Sept. 30; Serial No. 576,668, published June 24, 1952.
Salad dressing. Standard Brands Incorporated. 296,742, renewed Aug. 16, 1952. O. G. Sept. 30.
Seasonings. J. A. Wunsch. 564,598, Sept. 30; Serial No. 594,365, published July 1, 1952.
Sherbet frozen on a stick. The Goshen Ice Crea Company. 564,764, Sept. 30; Serial No. 623,049, published May 27, 1952.
Strawberries, Fresh and frozen. Oakland Strawberry Association, Incorporated. 564,671, Sept. 30; Serial No. 612,270, published June 10, 1952.
Vegetables, Fresh. J. A. Wood. 564,765, Sept. 30; Serial No. 623,324, published June 10, 1952.
Vegetables, Fresh. F. M. Yasukochi. 564,767, Sept. 30; Serial No. 623,816, published July 1, 1952.
Vegetables, Fresh, and fresh melons. The Garin Company. 564,669, Sept. 30; Serial No. 612,012, published May 20, 1952.
Vegetables, Fresh, and fresh melons. E. C. Reeker. 564,612, Sept. 30; Serial No. 602,067, published May 27, 1952.

CLASS 48

Beer. G. Heileman Brewing Co. 564,780, Sept. 30; Serial No. 537,587.
Malt beverages. Hampden Brewing Company. 287,287, Sept. 15, 1931. Republished Sept. 30.

CLASS 49

Whiskey. R. O. Seevers. 294,654, renewed June 7, 1952. O. G. Sept. 30.

CLASS 50

Campaign ribbon bars. N. S. Meyer, Inc. 564,549, Sept. 30; Serial No. 565,644, published June 24, 1952.
Display devices. W. L. Stensgaard and Associates, Inc. 564,673, Sept. 30; Serial No. 612,836, published June 24, 1952.
Hood caps for containers. Oswego Falls Corporation. 291,701, renewed Feb. 23, 1952. O. G. Sept. 30.
Imitation leather, impregnated fabrics resembling imitation leather, and tarpaulins. Färberei Schlieren A.-G. 564,690, Sept. 30; Serial No. 614,642, published June 24, 1952.
Kits containing flocculent material, adhesive, and an applicator gun. N. Irwin. 564,556, Sept. 30; Serial No. 572,251, published June 24, 1952.
Materials used in lithographic printing. A. B. Dick Company. 564,660, Sept. 30; Serial No. 610,428, published June 3, 1952.
Plastic sheets and strips, Luminous coated. United Chemicals, Inc. 564,733, Sept. 30; Serial No. 618,311, published July 1, 1952.
Statuettes, figurines, plaques, etc. F. H. Noble & Co. 564,545, Sept. 30; Serial No. 537,347, published June 10, 1952.
Thin, transparent sheeting of cellulosic composition. Eastman Kodak Company. 293,954, renewed May 10, 1952. O. G. Sept. 30.

CLASS 51

Astringents, astringent cerates, bleach creams, etc. F. C Reilly. 297,053, renewed Aug. 30, 1952. O. G. Sept. 30.
Dentifrices and mouth washes. The Anacin Company. 295,762, renewed July 12, 1952. O. G. Sept. 30.
Perfume, toilet water, and face powder. Ybry, Inc. 294,611-3, renewed June 7, 1952. O. G. Sept. 30.
Perfume, toilet water, and face powder. Ybry, Inc. 295,717, renewed July 12, 1952. O. G. Sept. 30.
Shaving lather. Reddi Pressure Products Inc. 564,812, Sept. 30; Serial No. 616,450.

CLASS 52

Chemicals used for industrial metal cleaning processes. C. W. Smith. 564,609, Sept. 30; Serial No. 601,480, published July 1, 1952.
Cleaner, Hand, woodwork, and floor. C. M. Wynn. 564,678, Sept. 30; Serial No. 613,392, published July 15, 1952.
Cleaning composition. Jerclaydon, Inc. 564,603, Sept. 30; Serial No. 598,586, published May 22, 1951.
Cleaning compounds. B. De Wild. 564,703, Sept. 30; Serial No. 615,472, published July 15, 1952.
Cleaning powder. The Hygienic Products Company. 298,650-1, renewed Nov. 1, 1952. O. G. Sept. 30.
Cleanser, Dairy. Babson Bros. Co. 564,541, Sept. 30; Serial No. 5 6,677, published Oct. 19, 1948.
Cleanser, General household and industrial. The Theobald Industries. 564,633, Sept. 30; Serial No. 606,637, published July 1, 1952.
Cleanser, General household and industrial. The Theobald Industries. 564,634, Sept. 30; Serial No. 606,818, published July 1, 1952.
Grease and dirt remover. M. M. Brand. 564,714, Sept. 30; Serial No. 616,221, published July 15, 1952.
Hand cream and all purpose cleaner, Combination. G. B. P. Co. 564,662, Sept. 30; Serial No. 610,786, published July 15, 1952.
Mineral composition for absorbing liquids such as water and oil from floors and like surfaces. Wyandotte Chemicals Corporation. 564,589, Sept. 30; Serial No. 588,351, published July 15, 1952.
Preparation capable of dissolving in gasoline, naphtha, benzole, or like solvent, etc. Monroe Drug Co. 89,130, re-renewed Nov. 12, 1952. O. G. Sept. 30.
Shampoo, Hair. Rilling Company. 564,613, Sept. 30; Serial No. 602,068, published June 24, 1952.
Shampoos. E. Schueller. 564,689, Sept. 30; Serial No. 614,517, published July 15, 1952.
Soap-like detergents, Sudsing. The Procter & Gamble Company. 564,820, Sept. 30; Serial No. 632,581.
Solvent, Rinsing and cleaning. Fischer Industries, Inc. 564,617, Sept. 30; Serial No. 603,226, published June 24, 1952.
Spot removal additive. Patek and Co. 564,588, Sept. 30; Serial No. 588,319, published July 15, 1952.
Washing composition, Automobile body. Denfis Chemical Laboratories, Inc. 564,630, Sept. 30; Serial No. 606,209, published July 15, 1952.

CLASS 100

Architectural and consultation services. Ward Lumber Company. 564,771, Sept. 30; Serial No. 594,822, published July 8, 1952.
Establishment and maintenance of membership in a national fraternal organization. Supreme Temple Daughters of The Nile. 564,777, Sept. 30; Serial No. 614,174, published July 8, 1952.

CLASS 101

Advertising goods and services. Thomas-Varney Incorporated. 564,772, Sept. 30; Serial No. 600,158, published July 8, 1952.

CLASS 102

Underwriting of health and accident, life, and group insurance. The Paul Revere Life Insurance Company. 564,774, Sept. 30; Serial No. 618,519, published July 8, 1952.

CLASS 105

Transportation of household goods and miscellaneous freight, etc. H. H. Stevens, Inc. 564,773, Sept. 30; Serial No. 614,172, published July 8, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Andrus, Orrin E., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Corrosion-resistant metallic structure. Re. 23,550, Sept. 30.

Axelson, Eskil A. A., and C. Å. Löfgren, assignors to Svenska Maskinaktiebolaget Greiff, Stockholm, Sweden. Paint pressure box with heat exchanger. Re. 23,551, Sept. 30.

Babb, John J., Calgary, Alberta, Canada, and N. J. Smith, New Orleans, La.; said Babb assignor to Texas Instruments Incorporated, and said Smith assignor to The California Company, New Orleans, La. Apparatus for marine seismic prospecting. Re. 23,552, Sept. 30.

Barber-Colman Company, assignee: *See*—
Herbster, George.

California Company, The, assignee: *See*—
Babb, John J., and Smith.

Contina Bureaux- und Rechenmaschinenfabrik A. G. Leichtenstein, assignee: *See*—
Herzstark, Curt.

Corning Glass Works, assignee: *See*—
Mochel, John M.

Herbster, George, Cleveland, Ohio, assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Venilator. Re. 23,560, Sept. 30.

Herzstark, Curt, Mauren, Leichtenstein, assignor to Contina Bureaux- und Rechenmaschinenfabrik A. G., Leichtenstein. Zeroizing mechanism. Re. 23,553, Sept. 30.

Jacquard Knitting Machine Co., Inc., assignee: *See*—
Miller, Charles F.

Löfgren, Carl Å.: *See*—
Axelson, Eskil A. A., and Löfgren.

Miller, Charles F., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa. Controller. Re. 23,554, Sept. 30.

Mochel, John M., Louisville, Ky., assignor to Corning Glass Works, Corning, N. Y. Electrically conducting coating on glass and other ceramic bodies. Re. 23,555, Sept. 30.

Mochel, John M., Louisville, Ky., assignor to Corning Glass Works, Corning, N. Y. Electrically conducting coating on glass and other ceramic bodies. Re. 23,556, Sept. 30.

Siracusa, Dante A., Huntington, Beach, Calif. Fishing tool. Re. 23,557, Sept. 30.

Smith, A. O., Corporation, assignee: *See*—
Andrus, Orrin E.

Smith, Neal J.: *See*—
Babb, John J., and Smith.

Svenska Maskinaktiebolaget Greiff: *See*—
Axelson, Eskil A. A., and Löfgren.

Texas Instruments Incorporated, assignee: *See*—
Babb, John J., and Smith.

Titcomb, Albert S., Yardley, Pa. Abrasive block or segment. Re. 23,558, Sept. 30.

LIST OF DESIGN PATENTEES

Aladdin Industries, Incorporated, assignee: *See*—
Schwarz, Eugene.

Auer, Betty, Chicago, Ill. Caster cup or similar article. 167,876, Sept. 30.

Barrows, Hubert J., Denver, Colo. Combined sewing chest and pin cushion or the like. 167,821, Sept. 30.

Beale, Dorr D., Minneapolis, Minn. Child's tricycle. 167,822, Sept. 30.

Bliss, Albert, Providence, R. I. Belt buckle. 167,823, Sept. 30.

Chamber of Commerce of Montgomery, assignee: *See*—
Ryan, Robert S.

Colombo, Grace J., assignor to Hanes Hosiery, Inc., New York, N. Y. Hosiery display rack or similar article. 167,824, Sept. 30.

Dailey, Donald E., Center Township, Vanderburgh County, Ind., assignor to Servel, Inc., New York, N. Y. Refrigerator. 167,825, Sept. 30.

Davis, Arthur F.: *See*—
Sedberry, Thomas D., and Davis.

Dennerlein, William H.: *See*—
Schladermundt, Peter, and Dennerlein.

Doeden, Roland E., Crete, assignor to Mall Tool Company, Chicago, Ill. Power tool unit. 167,826, Sept. 30.

Doherty, Damon M., St. Cloud, Minn. Rosary medal. 167,827, Sept. 30.

Drake, Fred M.: *See*—
Salgo, Emery, and Drake.

Duro Company, The, assignee: *See*—
Graef, Edgar J.

Exhibit Supply Co., The, assignee: *See*—
Se Bastian, Ford.

Florac, Richard, assignor to Telanserphone Inc., New York, N. Y. Radio receiver casing. 167,828, Sept. 30.

Folley, Donald E., Fayetteville, assignor to Onondaga Pottery Company, Syracuse, N. Y. Sugar bowl. 167,829, Sept. 30.

Gillette Company, The, assignee: *See*—
Schladermundt, Peter, and Dennerlein.

Gipson, Elwyn M., Lufkin, Tex. Combined flower basket and stand therefor. 167,830, Sept. 30.

Graber Company, The, assignee: *See*—
Graber, Joseph V. and J. N.

Graber, John N.: *See*—
Graber, Joseph V. and J. N.

Graber, Joseph V. and J. N., Madison, assignors to The Graber Company, Middleton, Wis. Drapery traverse hanger. 167,831, Sept. 30.

Graef, Edgar J., assignor to The Duro Company, Dayton, Ohio. Fire fighting vehicle. 167,832, Sept. 30.

Hanes Hosiery, Inc., assignee: *See*—
Colombo, Grace J.

Hieger, Robert H., Detroit, Mich. Automobile ornament or the like. 167,833, Sept. 30.

Hildebrand, Robert G., St. Louis, Mo. Infant's shoe. 167,834, Sept. 30.

Holophane Company, Inc., assignee: *See*—
Schreckengost, Viktor.

Jacoby-Bender, Inc., assignee: *See*—
Rodriguez, Emil.

James, Jeanette, Chicago, Ill. Combined bookrack and floor lamp. 167,835, Sept. 30.

Kandarian, Belle A., Fresno, Calif. Combination clothes hanger and cabinet. 167,836, Sept. 30.

Kirk, Mary A., Salem, Va. Doll. 167,837, Sept. 30.

Kogan, Belle, New York, N. Y., assignor to The Red Wing Potteries, Inc., Red Wing, Minn. Vase or similar article. 167,838, Sept. 30.

Lerner, Leon P., New York, N. Y. Combined bow tie display and shirt collar shaper. 167,839, Sept. 30.

Malco Company, Incorporated, The, assignee: *See*—
Watson, Leland A.

Mall Tool Company, assignee: *See*—
Doeden, Roland E.

McBride, William B.: *See*—
Selikoff, William, and McBride.

McCormack, Robert E., Sr., Albany, Ga. Combined container and candy cane display. 167,840, Sept. 30.

Meteor Manufacturing Corp., assignee: *See*—
Selikoff, William, and McBride.

Meyer, Charles G., assignor to The Vendo Company, Kansas City, Mo. Bottled drink vending machine case. 167,841, Sept. 30.

Mohr, Ann E., New York, N. Y. Gift stocking. 167,842, Sept. 30.

Mueller, Walter, Clifton, N. J., assignor of one-half to R. E. Schletter, Philadelphia, Pa. Lady's stocking. 167,843, Sept. 30.

Mueller, Walter, Clifton, N. J., assignor of one-half to R. E. Schletter, Philadelphia, Pa. Lady's stocking. 167,844, Sept. 30.

Napolitani, Frank D., New York, N. Y. Cuff link or similar article. 167,845, Sept. 30.

Odzer, Harry, New York, N. Y. Textile fabric or similar article. 167,846, Sept. 30.

Onondaga Pottery Company, assignee: *See*—
Folley, Donald E.

Peters, Leo, Evanston, Ill. Molded food product. 167,847, Sept. 30.

Peters, Leo, Evanston, Ill. Molded food product. 167,848, Sept. 30.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 167,849, Sept. 30.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 167,850, Sept. 30.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 167,851, Sept. 30.

Reader, David, New York, N. Y. Ten-sided die. 167,852, Sept. 30.

Red Wing Potteries, Inc., The, assignee: *See*—
Kogan, Belle.

Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 167,853, Sept. 30.

Rose, Henry, New York, N. Y. Textile fabric. 167,854, Sept. 30.

Rose, Henry, New York, N. Y. Textile fabric. 167,855, Sept. 30.

Rose, Henry, New York, N. Y. Textile fabric. 167,856, Sept. 30.

Russell, Allan M., Shaker Heights, Ohio. Oxygen mask. 167,857, Sept. 30.

Russell, Allan M., Shaker Heights, Ohio. Oxygen mask. 167,858, Sept. 30.

Ryan, Robert S., assignor to Chamber of Commerce of Montgomery, Montgomery, Ala. Flag. 167,859, Sept. 30.

Salgo, Emery, and F. M. Drake, Reno, Nev. Portable merry-go-round. 167,860, Sept. 30.

Sarna, Sajjan S., New York, N. Y. Combined bell and bottle cap remover. 167,861, Sept. 30.

Schladermundt, Peter, Bronxville, and W. H. Dennerlein, Whitestone, N. Y., assignors to The Gillette Company, Boston, Mass. Counter display case. 167,862, Sept. 30.

Schletter, Richard E., assignee: *See*—
Mueller, Walter.

Schreckengost, Viktor, Cleveland, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Lighting fixture. 167,863, Sept. 30.

Schreckengost, Viktor, Cleveland, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Lighting fixture bowl. 167,864, Sept. 30.

Schwarz, Eugene, Alexandria, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill. Base for table lamps. 167,865, Sept. 30.

SeBastian, Ford, assignor to The Exhibit Supply Co., Chicago, Ill. Phonograph record vendor. 167,866, Sept. 30.

Sedberry, Thomas D., and A. F. Davis, Shreveport, La. Ventilator head for gas pipe lines or the like. 167,867, Sept. 30.

Selikoff, William, and W. B. McBride, assignors to Meteor Manufacturing Corp., Buffalo, N. Y. Combined case and wrench set unit. 167,868, Sept. 30.

Servel, Inc., assignee: *See*—
Dalley, Donald E.

Shoff, Russell M., Hudson Falls, N. Y. Game board. 167,869, Sept. 30.

Stuhr, Fred E., New York, N. Y. Store front. 167,870, Sept. 30.

Telanserphone Inc., assignee: *See*—
Florac, Richard.

Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.

U. S. Fiber & Plastics Corp., assignee: *See*—
Vega, Wilbur L.

Vega, Wilbur L., New Milford, assignor to U. S. Fiber & Plastics Corp., Stirling, N. J. Inflatable mattress. 167,871, Sept. 30.

Vendo Company, The, assignee: *See*—
Meyer, Charles G.

Waite Carpet Company, assignee: *See*—
Waite, Philip C.

Waite, Philip C., assignor to Waite Carpet Company, Oshkosh, Wis. Floor covering. 167,872, Sept. 30.

Watson, Leland A., assignor to The Maico Company, Incorporated, Minneapolis, Minn. Hearing aid. 167,873, Sept. 30.

Wolk, Michael S., Miller, Ind. Slide viewer. 167,874, Sept. 30.

Wright, Marion E., Waterbury, Vt. Badge. 167,875, Sept. 30.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A/S Norduco, assignee: *See*—
Dijkema, Jan H.

A. T. S. Company Limited, assignee: *See*—
Taylor, Roland F.

Abel, Frederick: *See*—
McNeill, Francis R., Grillot, and Abel.

Aberle, Ernst, Lillehammer, Norway. Brush-making machine. 2,612,409, Sept. 30.

Actiengesellschaft Joh. Jacob Rieter & Cie., assignee: *See*—
Wildbolz, Rudolf.

Adams, Joe R., Cookeville, Tenn. Helmet with face guarding means. 2,611,897, Sept. 30.

Adelson, David E.: *See*—
Evans, Theodore W., Adelson, and Whitehill.

Aickin, Robert G.: *See*—
Mitchell, Reginald G., Tait, Webber, Aickin, Winsor, and Billinghame.

Airborne Instruments Laboratory, Inc., assignee: *See*—
Wehner, Robert S.

Air Reduction Company, Incorporated, assignee: *See*—
Robinson, Harold.

Air-Vent Awning Company, assignee: *See*—
Kramer, David, and Stapp.

Aktiebolaget Separator, assignee: *See*—
Borck, Alfred G.

Albrecht, Wolfram W., assignor to Jos. Schneider & Co., Kreuznach, Germany. Wide-angle high-speed photographic objective. 2,612,077, Sept. 30.

Albright, John R., assignor to Geo. D. Roper Corporation, Rockford, Ill. Pumping unit. 2,612,113, Sept. 30.

Alburn, Harvey E., assignor to Wyeth Incorporated, Philadelphia, Pa. Sulfation of alginic acid in alcoholic sulfuric acid. 2,612,498, Sept. 30.

Alco Valve Co., assignee: *See*—
Freedman, Rudolph, and Dube.

Alexander, Donald F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Electrical apparatus. 2,612,543, Sept. 30.

Alexanderson, Ernst F. W., A. H. Mittag, Schenectady, N. Y., and R. W. Kuenning, Berkeley, Calif., assignors to General Electric Company. Current interrupter. 2,612,629, Sept. 30.

Alldredge, Leroy R., Kensington, and E. O. Schonstedt, Takoma Park, Md. Invalid chair having footrest braking means. 2,612,209, Sept. 30.

Allen, Albert, Sharon, assignor to The Foxboro Company, Foxboro, Mass. Pneumatic switch. 2,612,185, Sept. 30.

Allen, Kenneth F., and V. W. Buker, St. Cloud, Minn. Control device for locking tractor brakes. 2,612,059, Sept. 30.

Allin, George S., assignee: *See*—
Miscovich, John A.

Altenpohl, Kathryn M., executrix, assignee: *See*—
Altenpohl, William F.

Altenpohl, William F., deceased, Philadelphia; K. M. Altenpohl, executrix, assignor to K. M. Altenpohl, Lower Merion, Pa. Track scale for automatic weighing and sorting machines. 2,612,265, Sept. 30.

Altmann, George O., Elizabeth, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Production of metal carbonyl powders of small size. 2,612,440, Sept. 30.

Alward, Francis, Cambridge, assignor to J. B. Howard, trustee, Marblehead, Mass. Method and apparatus for controlling the crankcase pressure in internal-combustion engines. 2,612,150, Sept. 30.

Amdursky, Mark E.: *See*—
Szegho, Constantin S., and Amdursky.
Szegho, Constantin S., Amdursky, and Reed.

Amdursky, Mark E., Chicago, and T. S. Noskowicz, Woodale, Ill., assignors to The Rauland Corporation. Cathode-ray tube for color television systems. 2,612,614, Sept. 30.

American Can Company, assignee: *See*—
Nordquist, Ronald E. J.

American Car and Foundry Company, assignee: *See*—
Kuhler, Otto A., and Burnett.

American Forging and Socket Company, assignee: *See*—
Rhodes, Albert J.

American Machine and Metals, Inc., assignee: *See*—
Buss, Benjamin A., and Miller.

American Optical Company, assignee: *See*—
Mahler, Joseph.

American Seating Company, assignee: *See*—
Glelow, George F., and Edwards.

American Tool Works Company, The, assignee: *See*—
Hoelscher, William G.

American Viscose Corporation, assignee: *See*—
Merlon, Howard D., and McDermott.

Andersen, Raymond C., Lombard, assignor to Chicago Metal Hose Corporation, Maywood, Ill. Welding method and apparatus. 2,612,580, Sept. 30.

Anderson, Arthur B., Portland, Oreg. Producing extractive materials from living trees. 2,612,000, Sept. 30.

Anderson, John R., Berkeley Heights, N. J., and A. C. Keller, Bronxville, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic recording and reproducing system. 2,612,566, Sept. 30.

Anderson, Ralph F., assignee: *See*—
Anderson, Swan F.

Anderson, Robert V., Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated. Film projector for television. 2,612,554, Sept. 30.

Anderson, Swan F., assignor, by mesne assignments, of one-half to R. F. Anderson, Rockford, Ill. Folding and filling machine. 2,612,016, Sept. 30.

Anderson, Walter A., Fairfield, Conn., assignor to Underwood Corporation, New York, N. Y. Accounting machine control means. 2,612,315, Sept. 30.

Andersson, John O., Ektorp, Sweden. Paint spraying device. 2,612,404, Sept. 30.

Andrews, John L., Fairfield, Ill. Preventing premature firing of depth charges, 2,612,107, Sept. 30.

Anemostat Corporation of America, assignee: *See*—
Nilsson, Henry O., and Phillips.

Angelicola, Achilles F., North Bergen, N. J. Elevator system. 2,612,238, Sept. 30.

Angell, Pierce T., and C. J. Leska, assignors to Thompson Products, Inc., Cleveland, Ohio. Impeller blade support fixture. 2,612,082, Sept. 30.

Angerby, Erik A., S. G. Axsäter, and S. G. Blom, Nynashamn, Sweden. Device for preshaping grinding disks. 2,612,152, Sept. 30.

Anglaret, Paul, Ville D'Avray, France. Reduction of esters, ethollides, glycerides. 2,612,527, Sept. 30.

Angona, Frank A., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Apparatus for measuring interstitial water content of well cores. 2,612,036, Sept. 30.

Animal Trap Company of America, assignee: *See*—
Lehn, John U.

Anton, Adam N., Dearborn, Mich. Portable safety and trouble light. 2,612,549, Sept. 30.

Appleton, William A., Wembley, assignor to Arc Manufacturing Company Limited, London, England. Combined arc welding electrode holder and high-frequency generator. 2,612,582, Sept. 30.

Arc Manufacturing Company Limited, assignee: *See*—
Appleton, William A.

Archer, Sydney, Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del. Alkoxyalkyl iodobenzoates. 2,612,517, Sept. 30.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
MacGlashan, William F., Jr.
Siggers, Philip E.

Arnall, Horace J., Clay City, Ill. Auxiliary gas lift for oil wells. 2,612,117, Sept. 30.

Aro Equipment Corporation, The, assignee: *See*—
Ferruzzi, Frank J.

Arp, Ewald A., assignor to Tobin-Arp Manufacturing Company, Minneapolis, Minn. Machine for boring connecting rods. 2,612,064, Sept. 30.

Ateliers de Construction Oerlikon, assignee: *See*—
Eggmann, Jean.

Atlas Powder Company, assignee: *See*—
Griffin, William C.

Auzière, Albert, Marseille, France. Device permitting the introduction of advertising matter in a piece of transparent soap. 2,611,942, Sept. 30.

Avco Manufacturing Corporation, assignee: *See*—
Constantine, Arthur R.
Crawford, William R.
Reiter, Alexander L., and Haverstock.

Axsäter, Sven G.: *See*—
Angerby, Erik A., Axsäter, and Blom.

Ayres, William R., Oaklyn, and H. J. Woll, Audubon, N. J., assignors to Radio Corporation of America. Regulated power supply. 2,612,632, Sept. 30.

B & L Tool & Machine Company, assignee: *See*—
Berarducci, Peter P. and A. L.

Baca, Faustine G.: *See*—
Baca, Placido G. and F. G.

Baca, Placido G., and F. G., Los Angeles, Calif. Precision stress breaker for removable partial restorations. 2,611,957, Sept. 30.

Bach, W. D., assignee: *See*—
Johnson, Marvin B.

Backer, Stanley, Primos, Pa. Tension adjustment for folding canvas cots. 2,611,906, Sept. 30.

Badskey, Lorin J.: *See*—
Schubert, Milton V., Jr., Langohr, Manago, Jr., and Badskey.

Baer, Massimo, and R. G. Fordyce, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo. Aqueous dispersions containing a water-soluble sulfonated polystyrene. 2,612,485, Sept. 30.

Bailey, Alonzo W., Cleveland, Ohio. Forming floor and ceiling structures. 2,611,944, Sept. 30.

Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J.
Mittendorf, Harvey C., and Paulison.
Paulison, William L., Jr., and Mittendorf.

Bain, Jay G., Petoskey, Mich. Catchup dispenser. 2,612,297, Sept. 30.

Baker, George T., Buckinghamshire, assignor to British Telecommunications Research Limited Taplow, Buckinghamshire, England. Telegraph distributor. 2,612,562, Sept. 30.

Bankoff, Seymour G., Terre Haute, Ind., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric tetrafluoroethylene dispersions. 2,612,484, Sept. 30.

Banner, Robert G.: *See*—
Perrin, Tom S., and Banner.

Barber-Colman Company, assignee: *See*—
Kennedy, Walter W.

Bargen, William J., Waukegan, Ill. Desk. 2,612,421, Sept. 30.

Barnes, George W., Jr., Clifton Heights, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Supply roll tension in a measuring instrument. 2,612,323, Sept. 30.

Barr, Courtland H., Los Angeles, Calif. Intravenous solution dispensing apparatus. 2,612,160, Sept. 30.

Barry, Aaron W., Grosse Pointe Farms, Mich. Scarifying applicator. 2,612,162, Sept. 30.

Bartlett, Jeffrey H., Westfield, N. J., assignor to Standard Oil Development Company. Lubricating oil additive. 2,612,475, Sept. 30.

Bată, narodní podnik, assignee: *See*—
Chmelař, Vaclav.

Bates, Norma L. and R. D., Auburn, Wash. Pneumatic juice extractor. 2,612,100, Sept. 30.

Bates, Ray D.: *See*—
Bates, Norma L. and R. D.

Battelle Development Corporation, The, assignee: *See*—
Rebman, Jack.

Baum, Frederick W., Scarsdale, N. Y., assignor to Mechanical Equipment Corp., Paterson, N. J. Dental mold tray. 2,611,959, Sept. 30.

Baur, Anthony A., Monroe, La. Necktie carrier. 2,612,257, Sept. 30.

Baur, Anthony A., Monroe, La. Necktie press and holder. 2,612,258, Sept. 30.

Beach, John M.: *See*—
Etten, Nicholas L., and Beach.

Becker, John, Irvington, N. J. Drill point grinder. 2,612,012, Sept. 30.

Bell, Ramsay M., assignor to Hammond Machinery Builders, Inc., Kalamazoo, Mich. Abrasive belt attachment for abrasive wheel machines. 2,612,007, Sept. 30.

Bell, Sam, Milwaukee, Wis. Mattress coil spring unit. 2,611,910, Sept. 30.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Anderson, John R., and Keller.
Cutler, Cassius C.
Rea, Wilton T.

Bendix Aviation Corporation, assignee: *See*—
Brinson, Harry A., and Faatz.

Benedict, Vincent G., Solvay, N. Y. Boat anchor. 2,612,131, Sept. 30.

Bennett, Marvin F., Hastings, Nebr. Micrometer. 2,611,967, Sept. 30.

Benson, Ernest H., Kansas City, Mo. Filler opening for containers. 2,612,285, Sept. 30.

Bentley Engineering Company Limited, The, assignee: *See*—
Deans, Frederick E., and Wainwright.

Berarducci, Albert L.: *See*—
Berarducci, Peter P., and A. L.

Berarducci, Peter P., Plainville, and A. L. Berarducci, Southington, assignors to B & L Tool & Machine Company, Plainville, Conn. Electrically heated paint and paper softening tool. 2,612,586, Sept. 30.

Bergstrom, Herman A.: *See*—
Von Glahn, William H., and Bergstrom.

Berken, Barbara B., assignee: *See*—
Buckley, John L. and L. G.

Berman, Frank, Pewaukee, Wis. Flashlight with H-shaped frame forming opposed holders for dry cells and lamp head. 2,612,598, Sept. 30.

Bernard, Arthur A., Chicago, Ill. Arc welding rod and producing same. 2,612,583, Sept. 30.

Bernard, Auguste, assignor to Societe dite: Compagnie de Fives-Lille, Paris, France. Sugar cane mill. 2,612,101, Sept. 30.

Bete Fog Nozzle, Inc., assignee: *See*—
Bete, John U.

Bete, John U., Stoughton, assignor to Bete Fog Nozzle, Inc., Greenfield, Mass. Spray nozzle. 2,612,407, Sept. 30.

Bettman, Carl H., Cedarhurst, N. Y. Modifying butter. 2,612,454, Sept. 30.

Billinghame, Albert V.: *See*—
Mitchell, Reginald G., Tait, Webber, Aickin, Winsor, and Billinghame.

Billings, Julia, assignee: *See*—
Facio, Robert H., Sr.

Binford, Benjamin L., assignor to Magnetrol, Inc., Chicago, Ill. Magnetic control mechanism. 2,612,572, Sept. 30.

Birch, Thomas H., Milwaukee, Wis. Combined press and clamp. 2,612,411, Sept. 30.

Bisley, William F., Oak Park, Ill. Power unit and governor for household food mixer. 2,612,571, Sept. 30.

Bivens, Maurice E., Schenectady, N. Y., assignor to General Electric Company. Coordination control circuit. 2,612,579, Sept. 30.

Björklund, Gustaf E., Stockholm, Sweden. Dental drill. 2,611,962, Sept. 30.

Black, John D.: *See*—
Lindau, John H., Stewart, and Black.

Blake, Ivan C., assignor to Burgess Battery Company, Freeport, Ill. Primary cell. 2,612,533, Sept. 30.

Blake, Ivan C., assignor to Burgess Battery Company, Freeport, Ill. Primary cell. 2,612,534, Sept. 30.

Blake, Ivan C., assignor to Burgess Battery Company, Freeport, Ill. Primary cell. 2,612,535, Sept. 30.

Blake, Ivan C., assignor to Burgess Battery Company, Freeport, Ill. Primary cell. 2,612,536, Sept. 30.

Blake, Ivan C., assignor to Burgess Battery Company, Freeport, Ill. Primary cell. 2,612,537, Sept. 30.

Blanchard, William A., Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pattern chain cylinder for dobby looms. 2,612,189, Sept. 30.

Blaw-Knox Company, assignee: *See*—
Croft, George M.
Sarosdy, Louis J.

Blom, Sven G.: *See*—
Angerby, Erik A., Axsäter, and Blom.

Blomqvist, Sven G. F., Stora Essingen, assignor of one-half to Ingenjorsfirman H. F. Rost & Soner, Djursholm, Sweden. Switch contact spring. 2,612,367, Sept. 30.

Blundell, Solon A., Jr.: *See*—
Robeson, Max O., and Blundell.

Boddy, Leonard, assignor to King-Seeley Corporation, Ann Arbor, Mich. Vaporizer. 2,612,432, Sept. 30.

Boer, Hendrik, assignee: *See*—
Van Rooy, Johannes M.

Bohuslav, Hans A., assignor to Engineering Controls, Inc., Los Angeles, Calif. Low water alarm. 2,612,147, Sept. 30.

Bolger, William B., Cleveland, Ohio. Fluid pressure operated flow control valve. 2,612,186, Sept. 30.

Bolin, Henry J., Elmont, N. Y. Casement window for air conditioners. 2,612,098, Sept. 30.

Bonadio, George A., Watertown, N. Y. Electronic discharge tube control. 2,612,618, Sept. 30.

Bonkowski, Teofil L.: *See*—
Solloway, Harry, and Bonkowski.

Borck, Alfred G., Tullinge, assignor to Aktiebolaget Separator, Stockholm, Sweden. Homogenizing device. 2,612,356, Sept. 30.

Borden, Joseph H., assignor to Haughton Elevator Company, Toledo, Ohio. Track for sliding doors. 2,611,920, Sept. 30.

Borg-Warner Corporation, assignee: *See*—
Warrick, Leland K., and La Flame.

Borman, Philip K., Chicago, and T. H. Swisher, Elmhurst, assignors to Hotpoint Inc., Chicago, Ill. Self-closing cabinet hinge. 2,611,922, Sept. 30.

Bott, Wister P., Monroe, assignor to P. E. Dozier, Shreveport, La. Upholstery fastening means for furniture. 2,612,213, Sept. 30.

Bouschor, Harvey H., Detroit, Mich. Hack saw. 2,612,196, Sept. 30.

Boutros, Richard D., Brighton, assignor to Mixing Equipment Co., Inc., Rochester, N. Y. Mixing equipment. 2,612,391, Sept. 30.

Bowser, Joseph T., Pittsburgh, Pa. X-ray film holder. 2,612,609, Sept. 30.

Boyd, Clarence A., assignor to The Watt Car & Wheel Company, Barnesville, Ohio. Mine car. 2,612,119, Sept. 30.

Bradshaw, John R.: *See*—
Faulkner, Harry R., Pettus, and Bradshaw.

Branson, James D., Casper, Wyo. Bumper seat for automobiles. 2,612,207, Sept. 30.

Braun, C. F., & Co., assignee: *See*—
Haynes, Charles L., and Breer.

Breedlove, Harry B.: *See*—
Frazier, Robert L., and Breedlove.

Breer, Henry W.: *See*—
Haynes, Charles L., and Breer.

Bretschneider, Curt, Philadelphia, Pa. Individually swingable driven axle. 2,612,231, Sept. 30.

Bridgefield, Guillermo P., Mexico City, Mexico. Axially movable rotary plug. 2,612,341, Sept. 30.

Briggs & Stratton Corporation, assignee: *See*—
Jacobi, Edward N.

Brinson, Harry A., and E. D. Faatz, Sidney, assignors to Bendix Aviation Corporation, New York, N. Y. Spark plug and making the same. 2,612,151, Sept. 30.

British telecommunications Research Limited, assignee: *See*—
Baker, George T.
Dain, Gordon T.

Brown and Sharpe Manufacturing Company, assignee: *See*—
Mathewson, Maxwell I.

Brown, Basil D., Jr., Springboro, Pa. Gauging instrument. 2,611,968, Sept. 30.

Brown, David: *See*—
Cherniavsky, Alexender J., and Brown.

Brown, Ellis M., and E. H. Forss, assignors to John Oster Manufacturing Company, Racine, Wis. Cutterhead for hair clipper. 2,611,955, Sept. 30.

Brown, Rodney G., North Brunswick Township, Middlesex County, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Bookbluding adhesives and applying same. 2,612,463, Sept. 30.

Bruening, Lee P., Glendale, Calif. Pivoted blade mounted on a thimble. 2,611,953, Sept. 30.

Brugmann, Frank J., Greeley, Colo. Spanner type flywheel rotating tool. 2,612,067, Sept. 30.

Brusatori, Emil, assignee: *See*—
Paul, Leonard B.

Buckeye Steel Castings Company, The, assignee: *See*—
Moeller, Harry A., and Orr.

Buckley, John L. and L. G., Olympia, assignors of one-eighth to B. B. Berken, Seattle, one-eighth to K. B. Ogle, Mercer Island, Wash., and one-eighth to E. B. Martin, Eugene, Oreg. Panel embossing machine. 2,612,102, Sept. 30.

Buckley, Lawrence G.: *See*—
Buckley, John L. and L. G.

Buenger, Edward F., River Forest, and F. D. Wedge, Oak Park, assignors to Wilson-Jones Company, Chicago, Ill. Loose-leaf binder. 2,612,167, Sept. 30.

Buisson, Pierre, Vanves, France. Apparatus for measurements by variation of electrical capacity. 2,611,964, Sept. 30.

Buker, Vernon W.: *See*—
Allen, Kenneth F., and Buker.

Bumbaugh, George L., Oaklawn, Ill. Traction device. 2,612,202, Sept. 30.

Bunnell, Raymond H.: *See*—
Hatcher, David B., and Bunnell.

Buquor, Adolph P., Washington, D. C. Carpet sweeper with disposable dust receptacle. 2,611,913, Sept. 30.

Burbage, George H.: *See*—
Toth, Emerick, and Burbage.

Burch, Loren P., Aberdeen, Wash. Device for varying curvature of boat keels. 2,612,129, Sept. 30.

Burch, Wilbur A., Warren, Ohio. Device for mixing fluids. 2,612,403, Sept. 30.

Burgess Battery Company, assignee: *See*—
Blake, Ivan C.

Burnett, William E.: *See*—
Kuhler, Otto A., and Burnett.

Burt, William C., assignor to Clair Manufacturing Company, Inc., Olean, N. Y. Glazing and polishing machine. 2,612,005, Sept. 30.

Buss, Benjamin A., East Moline, Ill., and H. W. Miller, Davenport, Iowa, assignors to American Machine and Metals, Inc., East Moline, Ill. Control station for operating washers with a single bath. 2,612,035, Sept. 30.

Butler, Louis M., Sauk Centre, Minn. Fish stringer. 2,612,303, Sept. 30.

Cabometer, Inc., assignee: *See*—
Horn, Thurman W.

Cahoon, Nelson C., Lakewood, and G. W. Heise, Fairview, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Primary galvanic cell and battery and making same. 2,612,538, Sept. 30.

Cairns, Thomas C., Niles, Ohio. Shoelace tightener. 2,611,940, Sept. 30.

Caldwell, Frederic B., Evanston, Ill. Meteorological calculating mechanism. 2,612,316, Sept. 30.

Cameron, Martha E., Seattle, Wash., assignor to Monsanto Chemical Company, St. Louis, Mo. Styrene-monoalkyl maleate-polyvinyl alcohol interpolymers emulsion adhesive and preparing same. 2,612,486, Sept. 30.

Campbell, John A.: *See*—
Hill, Lawrence R., and Campbell.

Campbell, Joseph B., Syracuse, N. Y. Partition construction. 2,612,243, Sept. 30.

Campbell, Thomas A., Chicago, Ill., and M. Harris, Detroit, Mich., assignors to Stewart-Warner Corporation, Chicago, Ill. Combined grease pump and reservoir. 2,612,296, Sept. 30.

Cannata, Philip J.: *See*—
Ciroll, Anthony J., and Cannata.

Capell, Sidney E., assignor to The General Industries Company, Elyria, Ohio. Plural-speed friction drive mechanism. 2,612,053, Sept. 30.

Carlson, Carl S.: *See*—
Morrell, Charles E., Carlson, and Robertson.

Carlson, Enoch W., Jamestown, N. Y. Checking mechanism for doors. 2,611,919, Sept. 30.

Carlson, Russell M., Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn. Towed glider with automatic tow cable release. 2,612,327, Sept. 30.

Carter, Leslie F., Leonia, N. J., assignor to The Sperry Corporation. Gyrocompass. 2,611,973, Sept. 30.

Carter, Sidney T., Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Conveyer mechanism. 2,612,254, Sept. 30.

Cascelloid Limited, assignee: *See*—
Senior, Henry, and Tomlinson.

Cassels, Charlie W., assignee: *See*—
Ridgers, Frederick G., and Cassels.

Catallo, Leo, assignor to Wheel Trueing Tool Company, Detroit, Mich. Diamond set core bit. 2,612,348, Sept. 30.

Cawl, Allen P., Painesville, Ohio, assignor to General Electric Company. Suction cleaner runner and bracket assembly. 2,612,380, Sept. 30.

Celanese Corporation of America, assignee: *See*—
Robeson, Max O., and Blundell.

Chambers, John, Newport, R. I. Cheese slicing device. 2,611,952, Sept. 30.

Chapman Forest Utilization, Inc., assignee: *See*—
Chapman, Ralph.

Chapman, Ralph, assignor to Chapman Forest Utilization, Inc., Corvallis, Oreg. Press unloader and shutter. 2,612,275, Sept. 30.

Cheatum, Leo G.: *See*—
McClellan, Marcus E., Cheatum, and Hill.

Chemo-Textiles, Inc., assignee: *See*—
Jones, Webster, and Heslin.

Chemstrand Corporation, The, assignee: *See*—
Hoxie, Howard M.

Cherniavsky, Alexander J., San Francisco, and D. Brown, Mill Valley, assignors to Shell Development Company, San Francisco, Calif. Production of methallyl chloride. 2,612,530, Sept. 30.

Chicago Metal Hose Corporation, assignee: *See*—
Andersen, Raymond C.

Chisholm, Allen E., and J. V. Hamar, Portland, Oreg., said Hamar assignor to said Chisholm. Wind direction and velocity signaling. 2,612,043, Sept. 30.

Chmelař, Václav, assignor to Bată, narodní podnik, Zlin, Czechoslovakia. Feeding mechanism for nailing machines. 2,611,896, Sept. 30.

Christine Association, Inc., assignee: *See*—
Clarke, Vernie E.

Church, Walter L., Houston, Tex. Tong. 2,612,066, Sept. 30.

Cincinnati Milling Machine Co., The, assignee: *See*—
Evans, Wendell I.

Ciroll, Anthony J., Medford, and P. J. Cannata, Boston, Mass. Yarn design forming tool. 2,611,947, Sept. 30.

Cities Service Research and Development Company, assignee: *See*—
Morgan, John D., and Lowe.

Clair Manufacturing Company, Inc., assignee: *See*—
Burt, William C.

Clapp, Charles W., Schenectady, N. Y., assignor to General Electric Company. Electronic time delay circuit. 2,612,604, Sept. 30.

Clarke, Philip C., Line Lexington, assignor to Hunter Spring Company, Lansdale, Pa. Force measuring device. 2,612,042, Sept. 30.

Clarke, Vernie E., Los Angeles, Calif., assignor to Christine Association, Inc. Air pump. 2,612,312, Sept. 30.

Claytor, Carl W., and J. W. Hendricks, Hartford, Ill. Unloading mechanism for concrete block molding machines. 2,612,276, Sept. 30.

Cleat, Laurence Hutcheson: *See*—
Symington, Robert, and Cleat.

Cleaver, Arthur V.: *See*—
Halford, Frank B., Cleaver, and Dove.

Clerc, Leonard F., Detroit, Mich. Adjustable bed frame. 2,611,907, Sept. 30.

Clifton, Lloyd T.: *See*—
Lewis, Warner, Jr., and Clifton.

Clinton Foods Inc., assignee: *See*—
Skinner, Bronson C.

Cly-Del Mfg. Co., assignee: *See*—
Tuttle, Spencer C.

Cobbs, William B., Tuscaloosa, Ala. Bookcase. 2,612,272, Sept. 30.

Cochrane Corporation, assignee: *See*—
Williams, John G.

Cockriel, Floyd M., Edgerton, Mo. Dripproof cup. 2,612,031, Sept. 30.

Codet, Howard G.: *See*—
Kaulakis, Arnold F., and Codet.

Coe, Clarence S.: *See*—
Doumani, Thomas F., and Coe.

Cohen, Saul G., Brighton, assignor to Polaroid Corporation, Cambridge, Mass. Phenyl trifluoroethylene. 2,612,528, Sept. 30.

Cohn, Harry, Brooklyn, N. Y. Combined dispenser and receptacle for cleansing dentures and other articles. 2,612,291, Sept. 30.

Cole, Thomas M., New York, N. Y., assignor to Federal Electric Products Company, Newark, N. J. Convertible flush and surface mountable panel board box. 2,612,283, Sept. 30.

Coleman, Maurice I., assignor to Warren-Laboratories, Baltimore, Md. Denture. 2,611,956, Sept. 30.
Colgate-Palmolive-Peet Company, assignee: *See*—
Monick, John A.
Collins, William J., Seattle, Wash. Cat collar. 2,612,139, Sept. 30.
Collison, John G., deceased, Greensboro, N. C.; Marie B. Collison, administratrix. Trochanteric plate for bone surgery. 2,612,159, Sept. 30.
Collison, Marie B., administratrix: *See*—
Collison, John G.
Coltman, John W.: *See*—
Marshall, Fitz-Hugh B., and Coltman.
Combustion Engineering-Superheater, Inc., assignee: *See*—
Mittendorf, Harvey C., and Paulison.
Paulison, William L., Jr., and Mittendorf.
Schoenfeld, David M.
Comfort, Edward F., Detroit, Mich. Storm door and panel construction. 2,611,933, Sept. 30.
Compagnie Industrielle des Telephones, assignee: *See*—
Jouguet, Marc F. G.
Cone, Charles N., Portland, Oreg., assignor to United States Plywood Corporation, New York, N. Y. Phenol aldehyde adhesive containing a chromium compound. 2,612,481, Sept. 30.
Conforti, Emile D. *See*—
Roberts, Willard A., Moore, and Conforti.
Conso Fastener Corporation, assignee: *See*—
Erhardt, William A., Jr.
Constaatine, Arthur R., South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Automatic washing machine with detergent injector. 2,612,034, Sept. 30.
Cook, Earle S.: *See*—
Gorman, Andrew T., and Cook.
Cooke, Donald E.: *See*—
Schrader, Milford J., and Cooke.
Corning Glass Works, assignee: *See*—
Mochel, John M.
Crandall, Ronald E., and J. E. Glenn, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Aileron, flap, and dive brake. 2,612,329, Sept. 30.
Crawford, David A., assignor to The Pullman Company, Chicago, Ill. Railway sleeping car. 2,612,120, Sept. 30.
Crawford Door Company, assignee: *See*—
Venditty, Anthony.
Crawford, William R., Covington, Ky., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Range cluster switch. 2,612,133, Sept. 30.
Crawley, John J., Scarsdale, assignor to Wm. H. Wise & Co., Inc., New York, N. Y. Thermometer. 2,612,046, Sept. 30.
Croft, George M., Fox Chapel Borough, assignor to Blaw-Knox Company, Pittsburgh, Pa. Impact pulverizer. 2,612,320, Sept. 30.
Crompton & Knowles Loom Works, assignee: *See*—
Blanchard, William A.
Crotty, Francis W., Elmwood Park, and E. M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation. Subscription type signaling system. 2,612,552, Sept. 30.
Crown Zellerbach Corporation, assignee: *See*—
Hearon, William M.
Crum, Stephen, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Engine power control apparatus. 2,612,226, Sept. 30.
Curtis, Cecil C., Washington, D. C. Sphygmomanometer. 2,612,156, Sept. 30.
Curtiss-Wright Corporation, assignee: *See*—
Cushman, Maurice E.
Shelley, Edwin F.
Cushman, Maurice E., Verona, N. J., assignor to Curtiss-Wright Corporation. Rotatable seal for cowlings. 2,612,227, Sept. 30.
Cutler, Cassius C., Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multiplex converter. 2,612,633, Sept. 30.
Dahlgren, John V. S., assignor to Stewart-Warner Corporation, Chicago, Ill. Sealing gland. 2,612,393, Sept. 30.
Dailey, Owen R., Rockford, Ill. Jet toy. 2,611,994, Sept. 30.
Dain, Gordon T., Buckinghamshire, assignor to British Telecommunications Research Limited, Taplow, Buckinghamshire, England. Telegraph distributor. 2,612,563, Sept. 30.
Daman, Arthur C., assignor to Mining Process and Patent Company, Denver, Colo. Pumping-type flotation apparatus. 2,612,358, Sept. 30.
D'Amato, Alexander, Abington, Mass. Card stenciling machine with address printing means. 2,612,103, Sept. 30.
Damon, Austin G.: *See*—
Whitehouse, Irving P., Krauss, and Damon.
Daubenspeck, Henry C., assignee: *See*—
Youkers, Harold A.
Davis, Harold D., Brooklyn, N. Y. Presser lid with steaming attachment. 2,611,980, Sept. 30.
Davis, Henry M., State College, Pa., assignor to United States Steel Company. Enameling metalware. 2,612,457, Sept. 30.
Davis, James L., Le Roy, Minn. Milking machine teat cup assembly. 2,612,136, Sept. 30.
Davis, Kenneth J., assignor to National Broach & Machine Company, Detroit, Mich. Gear finishing machine. 2,612,080, Sept. 30.
Davis, Marion H., Hagerstown, Ind. V groove pulley centrifugal clutch. 2,612,054, Sept. 30.
Dean, Walter N.: *See*—
Johnstone, Charles W., and Dean.
Deans, Frederick E., and C. H. Wainwright, assignors to The Bentley Engineering Company Limited, Leicester, England. Knitting machine for wrap striping. 2,612,032, Sept. 30.
Dearborn Chemical Company, assignee: *See*—
Gunderson, Lewis O.
Dearing, William C., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Formaldehyde-urea adhesives and coating compounds. 2,612,483, Sept. 30.
De Armond, Harry, assignor to Rowe Industries, Toledo, Ohio. Individual magnet adjustable pickup. 2,612,072, Sept. 30.
De Armond, Harry, assignor to Rowe Industries, Toledo, Ohio. Individual magnet with adjustable sleeve pickup device. 2,612,541, Sept. 30.
Deere & Company, assignee: *See*—
Stueland, Harold M.
Wangelin, Donald A.
Deere Manufacturing Co., assignee: *See*—
McClellan, Marcus E., Cheatum, and Hill.
Worthington, Wayne H.
De Havilland Engine Company Limited, The, assignee: *See*—
Halford, Frank B., Cleaver, and Dove.
Delamere, John, Denver, Colo. Fishing rod anchor. 2,612,334, Sept. 30.
De Laval Separator Company, The, assignee: *See*—
Dron, Douglas W.
Delegard, Carl J., Chicago, Ill. Pump and motor. 2,612,110, Sept. 30.
De Lisio, Salvatore, Boston, Mass. Light transmitting structure which may be made transparent or translucent at will. 2,612,078, Sept. 30.
Dellapent, Joseph, Westwood, N. J. Automotive truck body flexible closure. 2,612,221, Sept. 30.
De Mart, Le Roy S., assignor to Diamond Power Specialty Corporation, Detroit, Mich. Remote water level indicator. 2,612,044, Sept. 30.
Demeuse, Arthur: *See*—
Van Houtte, Ghislain, and Demeuse.
Dempsey, John J., Cleveland, Ohio. Oil saver. 2,612,392, Sept. 30.
Denlinger, Orlan, assignor to General Motors Corporation, Dayton, Ohio. Cutting brittle tubing. 2,612,001, Sept. 30.
Dentists' Supply Company of New York, The, assignee: *See*—
Semmelman, John O., and Watson.
Deschenes, Veral E., Seattle, Wash. Skate wheel. 2,612,410, Sept. 30.
Diamond Alkali Company, assignee: *See*—
Perrin, Tom S., and Banner.
Diamond Power Specialty Corporation, assignee: *See*—
De Mart, Le Roy S.
Dietz, William, Hollywood, Calif. Auxiliary nose piece for bifocal eye glasses. 2,612,076, Sept. 30.
Dijkema, Jan H., Haarlem, Netherlands, assignor to A/S Norduco, Oslo, Norway. Preparing pure well-crystallized hexanitrodiphenylamine. 2,612,523, Sept. 30.
Dillon, Annie L., Raleigh, and H. W. O'Shea, Jr., Durham, assignors to Fence-Me-In, Inc., Raleigh, N. C. Portable guard. 2,611,909, Sept. 30.
Dinstman, Hyman, New York, assignor to I. D. Watch Case Co. Inc., Jamaica, N. Y. Bracelet. 2,612,302, Sept. 30.
Distin, Lionel S., Chilwell, and C. V. Wilman, Long Eaton, assignors to Ericsson Telephones Limited, London, England. Rectangular wave form inverter. 2,612,631, Sept. 30.
Dome, Robert B., Geddes Township, Onondaga County, N. Y., assignor to General Electric Company. Noise suppression circuit. 2,612,602, Sept. 30.
Dorschner, Irvin E., Jackson County, assignor of one-half to B. E. Grottum, Jackson, Minn. Seed hopper and rotary auger feeding to auxiliary hopper. 2,612,294, Sept. 30.
Doumani, Thomas F., Los Angeles, and C. S. Coe, Rolling Hills, assignors to Union Oil Company of California, Los Angeles, Calif. Preparation of carboxylic acids. 2,612,520, Sept. 30.
Dove, Ernest B.: *See*—
Halford, Frank B., Cleaver, and Dove.
Dow Chemical Company, The, assignee: *See*—
Havens, Carl B.
Dozier, Porter E., assignee: *See*—
Bott, Wister P.
Dresser Industries, Inc., assignee: *See*—
Seibert, Carl F.
Dreyfuss, Paul D.: *See*—
Gaspar, Bela, and Dreyfuss.
Driehaus, Herman W., assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting machine. 2,612,362, Sept. 30.
Dron, Douglas W., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Rotary mixer. 2,612,354, Sept. 30.

Drozinski, Bronislaw J., Cleveland, Ohio. Airplane brake. 2,612,332, Sept. 30.
Drozinski, Bronislaw J., Cleveland, Ohio. Power rotor and depth adjustment therefor. 2,612,094, Sept. 30.
Dube, John E.: *See*—
Freedman, Rudolph, and Dube.
Dudley, Edmond R., Jr., San Jose, Calif. Corn husking machine. 2,612,170, Sept. 30.
Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Felt, David C.
Winter, David F.
Du Pont, E. I., de Nemours & Company, assignee: *See*—
Bankoff, Seymour G.
Brown, Rodney G.
Hume, Harold F.
MacDonald, Robert N.
Miegel, Ralph E.
Raasch, Maynard S.
Umberger, Jacob Q.
Duschinsky, Robert, Essex Fells, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Alkanoyl-a-ethylbenzylureas. 2,612,522, Sept. 30.
Dyer, Clarence A., Glenside, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Cell and support. 2,612,539, Sept. 30.
Earll, Lyman E., Berwyn, Ill. Rack. 2,612,274, Sept. 30.
Edens, Ralph A., East Detroit, Mich. Toolholder for tapered shanked tools. 2,612,377, Sept. 30.
Edwards Company, Inc., assignee: *See*—
Kreiner, John E.
Edwards, Miles L., Longview, Wash. Airplane fuel system with pressure accumulator. 2,612,215, Sept. 30.
Edwards, Robert L.: *See*—
Gielow, George F., and Edwards.
Eger, Ernst, Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y. Spring. 2,612,370, Sept. 30.
Eggmann, Jean, Rugby, England, assignor to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland. Intermediate cooler for multistage rotary compressors. 2,612,310, Sept. 30.
Ellis, Alfred L., Atlanta, Ga. Measuring and dispensing top with dual compartments filled and emptied alternately. 2,612,295, Sept. 30.
Ellis, John L.: *See*—
Goetzel, Claus G., and Ellis.
Elston, Edwin: *See*—
Heyer, Eric H., and Elston.
Emerson, William S.: *See*—
Heimsch, Robert A., and Emerson.
Emerson, William S., and T. M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Thianaphthylthiazolyl disulfides and preparing same. 2,612,504, Sept. 30.
Emerson, William S., and T. M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Thiocyanates of 2-vinylthiophenes. 2,612,506, Sept. 30.
Engineering Controls, Inc., assignee: *See*—
Bohuslav, Hans A.
Erhardt, William A., Jr., assignor to Conso Fastener Corporation, Philadelphia, Pa. Support and stripper. 2,612,281, Sept. 30.
Ericsson Telephones Limited, assignee: *See*—
Distin, Lionel S., and Wilman.
Ernst, Walter, Dayton, assignor, by mesne assignments, to The Thompson Grinder Company, Springfield, Ohio. Vane pump or motor. 2,612,114, Sept. 30.
Ernst, Walter, Dayton, assignor, by mesne assignments, to The Thompson Grinder Company, Springfield, Ohio. Vane pump and vane therefor. 2,612,115, Sept. 30.
Essex Products, Inc., assignee: *See*—
Zabriskie, Charles L.
Etten, Nicholas L., Waterloo, Iowa, and J. M. Beach, Grand Rapids, Mich. Combination transport coffin and casket. 2,611,946, Sept. 30.
Evans, Joseph R., Lincoln, Nebr. Two-cycle pump and engine assembly. 2,612,149, Sept. 30.
Evans, Theodore W., Oakland, D. E. Adelson, Berkeley, Calif., and L. N. Whitehill, Chicago, Ill., assignors to Shell Development Company, Emeryville, Calif. Mixed polycarboxylic acid esters of alkylidene glycols and polymers thereof. 2,612,491, Sept. 30.
Evans, Wendell L., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Sensitive hydraulic tracer valve. 2,612,184, Sept. 30.
Faatz, Embry D.: *See*—
Brinson, Harry A., and Faatz.
Facio, Robert H., Sr., assignor of one-third to J. Billings and one-third to H. Pomes, New Orleans, La. Article pickup device. 2,612,400, Sept. 30.
Fairey Aviation Company Limited, The, assignee: *See*—
Forsyth, Archibald G.
Fandex, Inc., assignee: *See*—
Stark, Nathan I.
Faulkner, Harry R., J. N. Pettus, and J. R. Bradshaw, Stanford, Ky. Book support attachment. 2,612,427, Sept. 30.
Faximile, Inc., assignee: *See*—
Hester, Frank A., and Smith.
Feasley, Charles F., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Higher molecular weight fluorine-containing compounds. 2,612,529, Sept. 30.
Federal Electric Products Company, assignee: *See*—
Cole, Thomas M.
Fehr, Edith B., and W. T. Posey, Schenectady, N. Y., assignors to General Electric Company. Cathode for ionization detection devices. 2,612,615, Sept. 30.
Fejertag, Karl M., Fort Wayne, Ind., assignor to General Electric Company. Clutch-brake mechanism. 2,612,248, Sept. 30.
Feldman, John E.: *See*—
Heide, John D., and Feldman.
Felt, David C., Teaneck, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Tuning mechanism. 2,612,051, Sept. 30.
Fence-Me-In, Inc., assignee: *See*—
Dillon, Annie L., and O'Shea.
Ferguson, Harry, Inc., assignee: *See*—
Schatz, Elmer E., and Ham.
Ferruzzi, Frank J., Willow Grove, Pa., assignor to The Aro Equipment Corporation, Bryan, Ohio. Valve construction. 2,612,339, Sept. 30.
Filliung, Jacques J., assignor to Sloan Valve Company, Chicago, Ill. Flush valve operating arrangement. 2,612,179, Sept. 30.
Fischer, Paul W., Whittier, assignor to Union Oil Company of California, Los Angeles, Calif. Oil-base drilling fluids. 2,612,471, Sept. 30.
Fisher, Richard T., Hingham, Mass., assignor to Sigma Instruments, Incorporated. Polarized electromagnetic device. 2,612,544, Sept. 30.
Flammi, Alexander L., Bridgeport, Conn., assignor to Ronson Art Metal Works, Inc., Newark, N. J. Gas fueled lighter mechanism. 2,612,033, Sept. 30.
Flosdorf, Earl W., Forest Grove, and L. W. Hull, Huntingdon Valley, assignors to F. J. Stokes Machine Company, Philadelphia, Pa. Quick-acting gear actuated pivoted valve. 2,612,338, Sept. 30.
Food Machinery and Chemical Corporation, assignee: *See*—
Peck, Albert C., and Thompson.
Plueddemann, Edwin P.
Verrinder, Ernest A.
Zettlemoyer, Albert C., Walker and Stump.
Footer, Jerome, Washington, D. C. Dental floss. 2,612,177, Sept. 30.
Fordyce, Reid G.: *See*—
Baer, Massimo, and Fordyce.
Forss, Ernest H.: *See*—
Brown, Ellis M., and Forss.
Forsyth, Archibald G., Cheam, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England. Electrically driven propeller pitch change system. 2,612,228, Sept. 30.
Foxboro Company, The, assignee: *See*—
Allen, Albert.
Frankenstein, William P., Cincinnati, Ohio. Carton. 2,612,306, Sept. 30.
Frazier, Frank L., and E. H. Waltz, assignors to Trojan Manufacturing Company, Troy, Ohio. Reversible pipe puller. 2,612,343, Sept. 30.
Frazier, Robert L., St. Louis, Mo., and H. B. Breedlove, Baton Rouge, La. Automatic flight controller. 2,612,331, Sept. 30.
Freedman, Rudolph, University City, and J. E. Dube, Chesterfield, assignors, by mesne assignments, to Alco Valve Co., St. Louis, Mo. Windshield wiper system. 2,612,141, Sept. 30.
Friedli, Robert, Jr., Irvington, N. J., assignor to Radio Corporation of America. Sleeve for indirectly heated cathode having an integral tab. 2,612,619, Sept. 30.
Frohner, Rudolph C.: *See*—
Schutzer, Henry E., and Frohner.
Fruehauf, Roy R.: *See*—
Steven, George, and Fruehauf.
Fuel Reduction Engineers, Inc., assignee: *See*—
Wadenstein, Oscar E.
Fuls, Charles C., near New Lebanon, Ohio. Self-feeder. 2,612,137, Sept. 30.
Gale, William S.: *See*—
Willard, Hobart H., and Gale.
Gall, Norman A., Toledo, Ohio. Tape dispenser. 2,612,322, Sept. 30.
Galloway, David W., Jr., Berkeley, Calif. Survey recorder. 2,612,431, Sept. 30.
Ganis, Sam E.: *See*—
Ingraham, Robert P., Phillips and Ganis.
Garelick, Frank, Woodside, N. Y. Spouting toy whale. 2,611,996, Sept. 30.
Gaspar, Béla, Beverly Hills, and P. D. Dreyfuss, Van Nuys, Calif., assignors, by mesne assignments, to said Gaspar. Photographic elements containing azo dyes and process using them. 2,612,448, Sept. 30.
Gaspar, Béla, Beverly Hills, and P. D. Dreyfuss, Van Nuys, Calif., assignors, by mesne assignments, to said Gaspar. Acid azo dyes. 2,612,496, Sept. 30.
Gautsche, William E., Jr., New London, Wis. Fishing lure. 2,611,984, Sept. 30.
Gaylord Container Corporation, assignee: *See*—
Klasing, Arthur P., and Williams.
Geigy, J. R., A. G., assignee: *See*—
Pulver, Robert.
Geisler, Frederick W., assignee: *See*—
Peters, Stanley E.
Gemco Shaper Company, assignee: *See*—
Gygax, Ernest.

General Aniline & Film Corporation, assignee: *See*—
Altmann, George O.
Ney, William O., Jr.
Randall, David I., and Renfrew.
Von Glahn, William H., and Bergstrom.

General Carpet Supply Co. Inc., assignee: *See*—
Jaasund, Torkel.

General Electric Company, assignee: *See*—
Alexanderson, Ernst F. W., Mittag, and Kuenning.
Bivens, Maurice E.
Cawl, Allen P.
Clapp, Charles W.
Dome, Robert B.
Fehr, Edith B., and Posey.
Feiertag, Karl M.
Jacobi, George T.
Janos, Alfred G.
Lincks, George F.
McFarland, Donald L.
Morrissey, John P.
Ranks, John E.
Rasmussen, Thomas J.
Semany, Paul D.
Steiner, Harry C.
Straney, Kenneth O.
Wakefield, Kenneth E.
West, Harry R., and Sayles.
Wyman, Bryce W.

General Industries Company, The, assignee: *See*—
Capell, Sidney E.

General Mills, Inc., assignee: *See*—
Huch, William F.

General Motors Corporation, assignee: *See*—
Alexander, Donald F.
Denlinger, Orlan.
Schjolin, Hans O.

General Precision Laboratory Incorporated, assignee: *See*—
Anderson, Robert V.

George, Peter R.: *See*—
Packer, Donald H., and George.

Giachetto, John J., Calumet City, D. H. Wagner, Chicago, Ill., and J. E. Wolf, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Process and system for treating hydrocarbon oil with liquid hydrogen fluoride. 2,612,464, Sept. 30.

Gibler, Madge, administratrix: *See*—
Gibler, Roy F.

Gibler, Roy F., deceased: M. Gibler, administratrix, assignor of one-half to G. Holmes, Cincinnati, Ohio. Heat exchanger baffle structure for air-heating furnaces. 2,612,153, Sept. 30.

Gibson, Elgen B., Burbank, Calif. Sinker for fishing lines. 2,611,988, Sept. 30.

Gibson Refrigerator Company, assignee: *See*—
Schrader, Milford J., and Cooke.

Gielow, George F., Brookfield, and R. L. Edwards, Oak Park, Ill., assignors, by mesne assignments, to American Seating Company. Removable cushion plate and seat standard. 2,612,211, Sept. 30.

Gilliland, Edwin R.: *See*—
Morrell, Charles E., and Gilliland.

Giordano, Vincent C., Morgan Hill, Calif. Fruit pitter. 2,612,197, Sept. 30

Ginson, William C., Jacksboro, assignor of one-half to W. Senkel, Graham, Tex. Dump bailer. 2,612,223, Sept. 30.

Girdler Corporation, The, assignee: *See*—
Warren, Henry R.

Gissel, Adolf, Obernrsel, and E. Reuter, Obernrsel-Bommersheim, assignors to Torpedo Werke Aktiengesellschaft Fahrräder und Schreibmaschinen, Frankfurt-Main-Rodelheim, Germany. Type bar releasing mechanism for typewriters. 2,612,252, Sept. 30.

Glenn, John E.: *See*—
Crandall, Ronald E., and Glenn.

Globe Hoist Company, assignee: *See*—
Thompson, Elmer B.

Gluesenkamp, Earl W., Centerville, and T. M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Preparation of diesters of aliphatic oxophosphonic acids. 2,612,513, Sept. 30.

Goetzel, Claus G., Yonkers, assignor to Sintercast Corporation of America, New York, N. Y. Coated composite refractory body. 2,612,442, Sept. 30.

Goetzel, Claus G., Yonkers, and J. L. Ellis, assignors to Sintercast Corporation of America, New York, N. Y. Power metallurgy. 2,612,443, Sept. 30.

Golden, Bertie C., assignor to Millhiser Bag Company, Inc., Richmond, Va. Conditioning needle for bag stringing machines. 2,612,125, Sept. 30.

Golick, Alexander J., Seattle, Wash., assignor to Monsanto Chemical Company, St. Louis, Mo. Soybean glue. 2,612,455, Sept. 30.

Goodfriend, William J., Worcester, assignor to Hunter Spring Company, Lansdale, Pa. Combined tension-compression testing apparatus. 2,612,041, Sept. 30.

Goodman Manufacturing Company, assignee: *See*—
Driehaus, Herman W.
Hagenbook, Loy D.

Goodrich, B. F., Company, The, assignee: *See*—
Krotz, Alvin S.

Goo Kim, John K., Jr., assignee: *See*—
Singer, Henry.

Gookin, Sylvester L., Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Eyeleting machine. 2,612,282, Sept. 30.

Gorman, Andrew T., Pitcairn, and E. S. Cook, Forest Hills, Pa., assignors to Westinghouse Air Brake Company. Apparatus for preventing undesired release of fluid pressure brakes. 2,612,412, Sept. 30.

Gorton, George, Machine Co., assignee: *See*—
Henkes, Peter M., and Miottel.

Goshorn, John C.: *See*—
Rockwell, Paul O., and Goshorn.

Gould, Charles W., assignor to Hercules Powder Company, Wilmington, Del. Homogeneous polymerization of vinylidene compounds with an α,α-dialkylarylmethyl hydroperoxide and a heavy metal compound as catalyst. 2,612,490, Sept. 30.

Gould, Charles W., assignor to Hercules Powder Company, Wilmington, Del. Pentaerythritol manufacture. 2,612,526, Sept. 30.

Graham, Harold J., Highland Park, and P. F. Powder, assignors to Graham Manufacturing Corporation, Detroit, Mich. Escapement mechanism. 2,611,911, Sept. 30.

Graham Manufacturing Corporation, assignee: *See*—
Graham, Harold J., and Powder.

Grannis, William C., South Bend, Ind., assignor to United States Rubber Company, New York, N. Y. Apparatus for vulcanizing frothed latex rubber. 2,611,926, Sept. 30.

Gray, Charles B., Springfield, Pa. Mechanical movement. 2,612,052, Sept. 30.

Gray, Landon R., Manhattan Beach, and H. P. Smith, Jr., Los Angeles, assignors to R. Seifried, Playa del Rey, Calif. Feed screw releasing means. 2,612,057, Sept. 30.

Gray Manufacturing Company, The, assignee: *See*—
Roberts, Willard A., Moore, and Conforti.

Gray Research and Development Company, Inc., assignee: *See*—
Kinsman, Russell C., and Perry.

Gray, Richard O., Broadview, Ill., assignor to Zenith Radio Corporation. Television receiver output transformer. 2,612,545, Sept. 30.

Greenleaf, Francis D., Oaklyn, N. J., assignor to Radio Corporation of America. Electrical conversion network. 2,612,630, Sept. 30.

Gregory Industries, Inc., assignee: *See*—
Nelson, Ted.

Griess, John C., Jr., Oak Ridge, Tenn., and L. B. Rogers, Cambridge, Mass., assignors to the United States of America as represented by the United States Atomic Energy Commission. Selective electrodeposition of silver. 2,612,470, Sept. 30.

Griffin, William C., West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del. Compositions derived from beeswax. 2,612,509, Sept. 30.

Griffith, Alan A., assignor to Rolls-Royce Limited, Derby, England. Gas turbine with fluid-driven auxiliary drive. 2,612,020, Sept. 30.

Grillot, Kenneth A.: *See*—
McNeill, Francis R., Grillot, and Abel.

Griscom-Russell Company, The, assignee: *See*—
Stadler, Walter L.

Groene, William F., assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Orbital lathe tool feeding mechanism. 2,612,069, Sept. 30.

Gross, Arthur G., Manhattan Beach, Calif. Sink stopper. 2,611,904, Sept. 30.

Gross, Fritz A., Weston, assignor to Raytheon Manufacturing Company, Newton, Mass. Microwave heating. 2,612,596, Sept. 30.

Gross, Howard H.: *See*—
Klersted, Wynkoop, Jr., and Gross.

Grottum, Bjarne E., assignee: *See*—
Dorschner, Irvin E.

Gubrud, Adolph P., Hudson, S. Dak. Graduated level. 2,611,972, Sept. 30.

Guerra, Jose A., San Salvador, El Salvador. Electric flatiron. 2,612,587, Sept. 30.

Guiles, Charles H.: *See*—
Shepherd, James E., and Guiles.

Gunderson, Lewis O., Park Ridge, assignor to Dearborn Chemical Company, Chicago, Ill. Method and composition for inhibiting foam in aqueous systems. 2,612,478, Sept. 30.

Gustafson, Peter, Chicago, Ill. Smoking pipe. 2,612,172, Sept. 30.

Gustafson, Peter, Chicago, Ill. Smoking pipe. 2,612,173, Sept. 30.

Gygax, Ernest, St. Louis, Mo., assignor to Gemco Shaper Company. Machine tool. 2,612,081, Sept. 30.

Hackmann, Johannes T.: *See*—
Overhoff, Johan, and Hackmann.

Hagen, Adolph R., Chicago, Ill. Fish lure. 2,611,987, Sept. 30.

Hagen, Glenn E., Lawndale, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Gaseous pulse amplifier. 2,612,617, Sept. 30.

Hagenbook, Loy D., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 2,612,361, Sept. 30.

Halford, Frank B., Edgware, A. V. Cleaver, London, and E. B. Dove, East Barnet, assignors to The De Havilland Engine Company Limited, Stonegrove, Edgware, England. Propellent injection system with safety valve to cutoff fluid pressure supply. 2,612,019, Sept. 30.

Hall, Edward H., Fitchburg, Mass. Paper mill felt. 2,612,190, Sept. 30.

Hall, Harvey H., Denver, Colo. Overhead garage door operator. 2,612,371, Sept. 30.

Hallgren, Karl S., Copenhagen, Denmark. Manufacture of elastic rubber tires. 2,612,461, Sept. 30.

Ham, Oscar: *See*—
Schatz, Elmer E., and Ham.

Hamar, James V.: *See*—
Chisholm, Allen E., and Hamar.

Hammond Machinery Builders, Inc., assignee: *See*—
Bell, Ramsay M.

Hansberg, Fritz, Milan, Italy. Machine for ramming foundry cores by means of compressed air. 2,611,938, Sept. 30.

Hansen Manufacturing Company, assignee: *See*—
Hansen, William L., and Manson.
White, Elzie C.

Hansen, William L., and H. G. Manson, assignors to Hansen Manufacturing Company, Princeton, Ind. Refrigerator defrosting system. 2,612,026, Sept. 30.

Harris, Mark: *See*—
Campbell, Thomas A., and Harris.

Hartough, Howard D., Pitman, and S. J. Lukasiewicz, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Aminoalkyl derivatives of thiophene. 2,612,505, Sept. 30.

Harvie, Alexander R., Orillia, Ontario, Canada. Pneumatic pump. 2,612,118, Sept. 30.

Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.

Hatcher, David B., and R. H. Bunnell, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Cross-linked silanes. 2,612,510, Sept. 30.

Haughton Elevator Company, assignee: *See*—
Borden, Joseph H.

Havens, Carl B., Hope, assignor to The Dow Chemical Company, Midland, Mich. Plastic compositions comprising biphenylyl esters of aliphatic acids. 2,612,489, Sept. 30.

Haverstock, Julius J.: *See*—
Reiter, Alexander L., and Haverstock.

Hawks, Clarence L., Fruita, Colo. Newspaper vending machine. 2,612,426, Sept. 30.

Hayes, Frank, assignor to Noble & Wood Machine Co., Hoosick Falls, N. Y. Beater roll. 2,612,083, Sept. 30.

Hayes, Frank A., Middletown, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Electrically controlled stop-motion system. 2,612,127, Sept. 30.

Hayes, Thomas E., Washington, D. C. Money counting machine. 2,612,318, Sept. 30.

Haynes, Charles L., Flintridge, and H. W. Breer, Burbank, assignors to C. F. Braun & Co., Alhambra, Calif. Bubble cap and holddown device. 2,612,360, Sept. 30.

Hazard, Charles S., New York, N. Y., assignor to Neptune Meter Company. Apparatus for selective operation of registers in liquid dispensing mechanisms. 2,612,288, Sept. 30.

Heald Machine Company, The, assignee: *See*—
Kuniholm, Martin L., and Klar.

Hearon, William M., assignor to Crown Zellerbach Corporation, Camas, Wash. Making conidendrol. 2,612,508, Sept. 30.

Heffley, Howard H., assignor to The Toledo Plate & Window Glass Company, Toledo, Ohio. Glass beveling machine. 2,612,006, Sept. 30.

Heide, John D., Ramsey, and J. E. Feldman, Garfield, N. J., assignors to United States Rubber Company, New York, N. Y. Cycle time recorder. 2,612,430, Sept. 30.

Heimsch, Robert A., and W. S. Emerson, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Condensation chloromethyl benzoates. 2,612,516, Sept. 30.

Heise, George W.: *See*—
Cahoon, Nelson C., and Heise.

Heise, George W., Fairview, and E. A. Schumacher, Parma, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Primary cell or battery. 2,612,532, Sept. 30.

Helier, Herman S., West Los Angeles, Calif. Safety device for preventing accidental erasing or double recording on magnetic record tape. 2,612,565, Sept. 30.

Helmond, William F., Clinton, Conn., assignor to Underwood Corporation, New York, N. Y. Device to restore forcibly interferingly operated type carriers. 2,612,253, Sept. 30.

Helpert, Leah, assignee: *See*—
Weis, William B.

Hemphill, William B., Dallas, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Automatic gain control system. 2,612,568, Sept. 30.

Hendricks, John W.: *See*—
Claytor, Carl W., and Hendricks.

Henkes, Peter M., and E. L. Miottel, assignors to George Gorton Machine Co., Racine, Wis. Micrometer dial for machine and the like tools. 2,612,134, Sept. 30.

Hennell, Charles H., Inglewood, Calif. Sliding table top construction. 2,612,423, Sept. 30.

Hennessy, James J., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa. Railway journal lubricator distributor. 2,612,416, Sept. 30.

Hennessy Lubricator Company, Inc., assignee: *See*—
Hennessy, James J.

Hercules Powder Company, assignee: *See*—
Gould, Charles W.

Herndon, Julian, Leesburg, Fla. Shock absorbing means for power-driven hand tools. 2,611,960, Sept. 30.

Hertz, Helmut, assignor to Superba Cravats, Inc., Rochester, N. Y. Necktie. 2,611,900, Sept. 30.

Heslin, John J.: *See*—
Jones, Webster, and Heslin.

Hester, Frank A., New York, and J. W. Smith, Whitestone, assignors to Faximile, Inc., New York, N. Y. Bucking current circuit for half-tone fidelity correction. 2,612,429, Sept. 30.

Heumader, Otto, St. Joseph, Mo. Tappet wrench. 2,612,068, Sept. 30.

Heyer, Eric H., Los Angeles, and E. Elston, Beverly Hills, Calif. Camera and money container. 2,612,092, Sept. 30.

Heywood, Vincent E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Closure flap folding and envelope stacking mechanism for envelope machines. 2,612,088, Sept. 30.

Hickok Manufacturing Company, Inc., assignee: *See*—
Lipp, William.

Highberg, Georgei A., West Hartford, assignor to The Whitton Machine Company, New London, Conn. Chuck. 2,612,378, Sept. 30.

Hill, George B.: *See*—
McClellen, Marcus E., Cheatum, and Hill.

Hill, Lawrence R., Pittsburgh, Pa., and J. A. Campbell, Lawson, Mo., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Insulating electrical apparatus. 2,611,930, Sept. 30.

Hochalter, Frederick J., Stillwater, Minn. Card table with individual trays. 2,612,424, Sept. 30.

Hodo, D. W., assignee: *See*—
Johnson, Marvin B.

Hoelscher, William G., assignor to The American Tool Works Company, Cincinnati, Ohio. Displaceable bearing for lathe feed shafts. 2,612,070, Sept. 30.

Hoffmann-La Roche Inc., assignee: *See*—
Duschinsky, Robert.

Holmes, Grace, assignee: *See*—
Gibler, Roy F.

Homrighous, John H., Oak Park, Ill. Television system. 2,612,553, Sept. 30.

Honorary Advisory Council for Scientific and Industrial Research, The, assignee: *See*—
Stedman, Donald F.

Horeczy, Joseph T., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Polymerization of olefins and the alkylation of polymer. 2,612,531, Sept. 30.

Horn, Thurman W., Anniston, Ala., assignor to Cabometer, Inc. Constant speed drive for automobile generators and the like. 2,612,249, Sept. 30.

Hornfeck, Anthony J., Lyndhurst, Ohio, assignor to Bailey Meter Company. Balanceable network electric measuring system. 2,612,628, Sept. 30.

Hotpoint Inc., assignee: *See*—
Borman, Philip K., and Swisher.

Houtman, Harold R., assignor to Sutherland Paper Company, Kalamazoo, Mich. Cellular carton erecting machine. 2,612,086, Sept. 30.

Howard, John B., trustee, assignee: *See*—
Alward, Francis.

Hoxie, Howard M., Chester, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala. Producing shaped articles from artificial or synthetic fiber- or film-forming materials. 2,611,929, Sept. 30.

Hrček, Klement, Brunn, Kralovo Pole, Czechoslovakia. Electromagnetic clamping and division apparatus. 2,611,969, Sept. 30.

Huch, William F., St. Paul, Minn., assignor to General Mills, Inc. Variable volume balloon and its manufacture. 2,612,328, Sept. 30.

Hudson, Boyd E., Jr., Cranford, H. L. Wilson, Elizabeth, and J. F. Nelson, Rahway, N. J., assignors to Standard Oil Development Company. Use of phosphites in esterification reactions of synthetic alcohols. 2,612,515, Sept. 30.

Huelsdonk, Lewis L., Downieville, Calif. Centrifuge. 2,612,314, Sept. 30.

Huffman Manufacturing Company, The, assignee: *See*—
McNeill, Francis R., Grillot, and Abel.

Hull, Lewis W.: *See*—
Flosdorf, Earl W., and Hull.

Hullegård, Erik W., assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Gaseous discharge tube. 2,612,625, Sept. 30.

Humason, Granville A., Houston, Tex. Gas lift. 2,612,111, Sept. 30.

Hume, Harold F., Marshaliton, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Method and apparatus for the drawing of synthetic funicular structures. 2,611,923, Sept. 30.

Hunsucker, William A., Los Angeles, Calif. Submarine foundation and erecting. 2,612,024, Sept. 30.

Hunsucker, William A., Los Angeles, Calif. Prefabricated marine structure. 2,612,025, Sept. 30.

Hunter Spring Company, assignee: *See*—
Clarke, Philip C.
Goodfried, William J.

I. D. Watch Case Co. Inc., assignee: *See*—
Dinstman, Hyman.

Illinois Tool Works, assignee: *See*—
Poupitch, Ouglijesa J.

Ilmer, Louis, Cortland, N. Y. Unidirectional wire grinder of the dragged workpiece type and method. 2,612,004, Sept. 30.

Imperial Chemical Industries Limited, assignee: *See*—
Wilson, Robert H.

Industrial Rayon Corporation, assignee: *See*—
McLellan, Kenneth M., and Stanley.

Industriewerke Karlsruhe Aktiengesellschaft, assignee: *See*—
Kirschbaum, Emil.

Ingenjorsfirman H. F. Rost & Soner, assignee: *See*—
Blomqvist, Sven G. F.

Ingraham, Robert P., San Antonio, Tex., J. W. Phillips, Chicago, and S. E. Ganis, Evanston, Ill., assignors, by mesne assignments, of two-thirds to said R. P. Ingraham. Tree felling device. 2,612,194, Sept. 30.

Internationella Siporex Aktiebolaget, assignee: *See*—
Simonsson, Lennart H., and Ulfstedt.

Iny, Daisy, New York, N. Y. Bell with attaching means. 2,612,135, Sept. 30.

Isom, Warren R.: *See*—
Kellogg, Edward W., and Isom.

Jaasund, Torkel, Brooklyn, assignor to General Carpet Supply Co. Inc., New York, N. Y. Combined carpet fastener and binder. 2,611,918, Sept. 30.

Jacobi, Edward N., assignor to Briggs & Stratton Corporation, Milwaukee, Wis. Terminal and contact construction for electric switches. 2,612,577, Sept. 30.

Jacobi, George T., Schenectady, N. Y., assignor to General Electric Company. Voltage level selector circuit. 2,612,550, Sept. 30.

Jacobson, Charles, Brooklyn, N. Y. Towel feeding and cutting machine. 2,612,425, Sept. 30.

Jamison Cold Storage Door Co., assignee: *See*—
Jamison, John V., Jr.

Jamison, John V., Jr., assignor to Jamison Cold Storage Door Co., Hagerstown, Md. Closure means for super freezer doors. 2,612,372, Sept. 30.

Janos, Alfred G., Erie, Pa., assignor to General Electric Company. Arrangement for mounting heat transfer conduits. 2,612,351, Sept. 30.

Jarmin, James B., assignor to Servis Equipment Company, Dallas, Tex. Stalk shredder. 2,612,017, Sept. 30.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.
Moon, Sterling C.
Russell, Glenn.

Jezler, Hubert, Zurich, Switzerland. Motorcar with parking device. 2,612,230, Sept. 30.

Johns-Manville Corporation, assignee: *See*—
Zettel, Joseph H.

Johnson Gage Company, The, assignee: *See*—
Johnson, Paul W.
Johnson, Stanley G.

Johnson, Marvin B., Montgomery, Ala., assignor of sixty-seven and one-half per cent to D. W. Hodo and twenty-seven and one-half per cent to W. D. Bach. Fifth wheel locking mechanism. 2,612,381, Sept. 30.

Johnson, Paul W., assignor to The Johnson Gage Company, Bloomfield, Conn. Gauge with pivotal and laterally movable gauge member. 2,611,965, Sept. 30.

Johnson, Rolly A., Los Angeles, Calif. Fishing reel. 2,612,325, Sept. 30.

Johnson, Stanley G., West Hartford, assignor to The Johnson Gage Company, Bloomfield, Conn. Indicating comparator having pivoted jaws. 2,611,970, Sept. 30.

Johnstone, Charles W., and W. N. Dean, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Navy. Rotational orientation apparatus. 2,612,547, Sept. 30.

Jones, Mildred A., administratrix: *See*—
Jones, Webster, and Heslin.

Jones, Webster, deceased, by M. A. Jones, administratrix, New York, N. Y., and J. J. Heslin, Waltham, Mass., assignors to Chemo-Textiles, Inc. Electrically heated drying oven for yarn impregnating machines. 2,612,589, Sept. 30.

Joslyn Manufacturing and Supply Company, assignee: *See*—
Yonkers, Edward H.

Jouguet, Marc F. G., Orsay, assignor to Compagnie Industrielle des Telephones, Paris, France. System of transmission by wave guides. 2,612,559, Sept. 30.

Jourgensen, John L., assignee: *See*—
Miller, Dorothy L.

Jourgensen, Sally, assignee: *See*—
Miller, Dorothy L.

Joyce, Inc., assignee: *See*—
Joyce, William H., Jr.

Joyce, William H., Jr., assignor to Joyce, Inc., Pasadena, Calif. Shoe with tapered rocker type midsole. 2,611,978, Sept. 30.

June, David H., Bronx, N. Y. Coin purse and the like. 2,612,200, Sept. 30.

Junkin, George T.: *See*—
Orr, Raymond F., and Junkin.

Kalter, Harold E., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Supporting truss members for cycle saddles. 2,612,206, Sept. 30.

Kask Technical Corporation, assignee: *See*—
Kurata, Fred.

Kaskouras, Thomas, Chicago, Ill. Can punch. 2,611,950, Sept. 30.

Kaulakis, Arnold F., Roselle, and H. G. Codet, Mountainside, N. J., assignors to Standard Oil Development Company. Catalyst reaction vessel. 2,612,437, Sept. 30.

Keith-Peabody, Inc., assignee: *See*—
Keith, William J.

Keith, William J., assignor to Keith-Peabody, Inc., Brookline, Mass. Capmaking machine. 2,612,084, Sept. 30.

Keller, Arthur C.: *See*—
Anderson, John R., and Keller.

Kellogg, Edward W., Haddonfield, and W. R. Isom, West Collingswood, N. J., assignors to Radio Corporation of America. Film pulldown method. 2,612,075, Sept. 30.

Kelly, Sam E., assignee: *See*—
Wiegman, John J.

Kendrick, John W., assignor to Met-L-Wood Corporation, Chicago, Ill. Sealing arrangement for sliding closures. 2,611,937, Sept. 30.

Kennedy, Walter W., assignor to Barber-Colman Company, Rockford, Ill. Adjustable air distribution grille. 2,612,095, Sept. 30.

Kennedy, Walter W., assignor to Barber-Colman Company, Rockford, Ill. Adjustable air distribution grille. 2,612,096, Sept. 30.

Keys, Joseph F., Wichita, Kans. Internal-combustion engine with rotary constant volume combustion chamber. 2,612,022, Sept. 30.

Kiefer, Augustine J., Pittsburgh, Pa. Panel fastening for doors and window sashes. 2,612,244, Sept. 30.

Kiersted, Wynkoop, Jr., Scarsdale, and H. H. Gross, Pleasantville, assignors to Texaco Development Corporation, New York, N. Y. Separation of oil and wax by continuous filtration. 2,612,465, Sept. 30.

Kiersted, Wynkoop, Jr., Scarsdale, and H. H. Gross, Pleasantville, assignors to Texaco Development Corporation, New York, N. Y. Continuous vacuum filtration. 2,612,466, Sept. 30.

Kileze Company, Inc., assignee: *See*—
Loy, Cyril W., and Mullis.

King, John A., Manhasset, assignor to Sterling Drug Inc., New York, N. Y. Preparation of alkyl acylamidoacetoacetates. 2,612,518, Sept. 30.

King-Seeley Corporation, assignee: *See*—
Boddy, Leonard.

Kinsman, Russell C., Collinsville, and T. Perry, Glastonbury, Conn., assignors to Gray Research and Development Company, Inc. Telegraph selector mechanism. 2,612,555, Sept. 30.

Kirby, Walter G., Naugatuck, and L. E. Steinle, Beacon Falls, Conn., assignors to United States Rubber Company, New York, N. Y. Reclaiming mixtures of vulcanized natural rubber and synthetic rubber scraps. 2,612,479, Sept. 30.

Kirkpatrick, John A., assignor to Universal Manufacturing Corp., Zellienople, Pa. Brace bracket for scaffolds and the like. 2,612,414, Sept. 30.

Kirschbaum, Emil, Grotzingen, near Karlsruhe/Baden, assignor to Industriewerke Karlsruhe Aktiengesellschaft, Baden, Germany. Spraying nozzle. 2,612,405, Sept. 30.

Kizawa, Takeo, assignor to Yugen-Kaisha Sanei Sangyo, Tokyo-To, Japan. Apparatus for discriminating the sex of chickens of hens and cocks and the other birds or for inspecting the internal organs of any birds or animals. 2,612,157, Sept. 30.

Klar, John: *See*—
Kuniholm, Martin L., and Klar.

Klasing, Arthur P., Webster Groves, and B. M. Williams, assignors to Gaylord Container Corporation, St. Louis, Mo. Container. 2,612,305, Sept. 30.

Klipsch, Paul W., Hope, Ark. Crossover filter network. 2,612,558, Sept. 30.

Knauer, Berthold: *See*—
Rouan, Francis J., and Knauer.

Koch, Alfred R., Jr., Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Universal motion actuator. 2,612,049, Sept. 30.

Koester, Frederick A., Los Angeles, Calif. Automobile crankcase oil draining apparatus. 2,612,289, Sept. 30.

Kollte Plastics Co., assignee: *See*—
Whitebread, Ned B.

Koylowski, Michael S.: *See*—
Loader, Alfred, and Koylowski.

Krafft, Frederich G., assignor to The Thompson Grinder Company, Springfield, Ohio. Mounting structure for grinding wheels. 2,612,015, Sept. 30.

Kramer, David, West Los Angeles, and O. H. Stapp, Montebello, assignors, by mesne assignments, to Air-Vent Awning Company, Los Angeles, Calif. Ventilated awning. 2,611,935, Sept. 30.

Krapp, Joseph W., Katonah, N. Y. Illuminated top. 2,611,995, Sept. 30.

Krauss, Wolfgang W.: *See*—
Whitehouse, Irving P., Krauss and Damon.

Kreiner, John E., Palatine, Ill., assignor to Edwards Company, Inc., Norwalk, Conn. Paging system. 2,612,551, Sept. 30.

Krotz, Alvin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Mounting for rotating bodies. 2,612,418, Sept. 30.

Kuenning, Robert W.: *See*—
Alexanderson, Ernst F. W., Mittag, and Kuenning.

Kuhler, Otto A., Blauvelt, N. Y., and W. E. Burnett, Montclair, N. J., assignors to American Car and Foundry Company, New York, N. Y. Rail car. 2,612,121, Sept. 30.

Kuniholm, Martin L., Worcester, and J. Klar, West Boylston, assignors to The Heald Machine Company, Worcester, Mass. Internal grinding machine. 2,612,008, Sept. 30.

Kurata, Fred, Lawrence, Kans., assignor to Kask Technical Corporation, Jackson Heights, N. Y. Atomizing nozzle. 2,612,406, Sept. 30.

Kurata, Fred, Lawrence, Kans., assignor to Kask Technical Corporation, Jackson Heights, N. Y. Atomizing nozzle. 2,612,408, Sept. 30.

Kurzweil, Robert, Kew Gardens, assignor to Morey Machinery Co. Inc., Long Island City, N. Y. Hydraulically operated headstock center. 2,612,071, Sept. 30.

Kux, Albert S., assignor to Kux Machine Co., Chicago, Ill. Automatic ladling means. 2,611,939, Sept. 30.

Kux Machine Co., assignee: *See*—
Kux, Albert S.

LML Engineering & Manufacturing Corporation, assignee: *See*—
Schubert, Milton V., Jr., Langohr, Manago, Jr., and Badskey.

Lachowicz, Stanley F., assignor to Landers, Frary & Clark, New Britain, Conn. Sectional range. 2,612,590, Sept. 30.

La Flame, Frank: *See*—
Warrick, Leland K., and La Flame.

Laird, Joseph P., Philadelphia, Pa. Brassière. 2,611,898, Sept. 30.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Image-receiving photographic element combined with a processing container. 2,612,449, Sept. 30.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Self-framing photographic film unit containing a liquid, and process for producing framed positive images. 2,612,450, Sept. 30.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic product, including a container and means for rupturing said container. 2,612,451, Sept. 30.

Landers, Frary & Clark, assignee: *See*—
Lachowicz, Stanley F.

Landis, Christian G., assignee: *See*—
Landis, Samuel K.

Landis, Samuel K., Ephrata, assignor of one-half to C. G. Landis, Quarryville, Pa. Trailer stabilizing connection. 2,612,382, Sept. 30.

Langdon, Jesse D., Long Beach, Calif. Valve construction. 2,612,183, Sept. 30.

Lange, Emil, Paris, France. Electric circuit breaker. 2,612,576, Sept. 30.

Langohr, Billy E.: *See*—
Schubert, Milton V., Jr., Langohr, Manago, and Badskey.

Larson, Edwin, Milwaukee County, Wis. Animal trap. 2,611,989, Sept. 30.

Lathrop-Paulson Company, The, assignee: *See*—
Schwarzkopf, Vergil.

Laurent, Milton P., Houston, Tex. Rotary plug valve. 2,612,340, Sept. 30.

Lauterbach, Norman E., Newark, assignor to Ritter Company, Inc., Rochester, N. Y. Headrest for medical practice chairs. 2,612,212, Sept. 30.

Leach, Byron E., assignor to The Upjohn Company, Kalamazoo, Mich. Extraction of cycloheximide. 2,612,502, Sept. 30.

Le Blond, R. K., Machine Tool Company, The, assignee: *See*—
Groene, William F.

Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Mining apparatus. 2,612,363, Sept. 30.

Lehmann, Gerard, assignor to Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.), Paris, France. Device for operating control surfaces, especially for aircraft. 2,612,330, Sept. 30.

Lehn, John U., assignor to Animal Trap Company of America, Lititz, Pa. Animal trap. 2,611,991, Sept. 30.

Leitl, George J. F., Port Melbourne, Victoria, Australia. Apparatus for the extrusion molding of concrete and like materials. 2,611,941, Sept. 30.

Leska, Carl J.: *See*—
Angell, Pierce T., and Leska.

Leuschner, Kurt A., Monterey, Calif. Can transfer mechanism. 2,612,255, Sept. 30.

Lewis, Douglas R., Summit, assignor, by mesne assignments to The Viscoseal Corporation, Union, N. J. Sealing unit. 2,612,390, Sept. 30.

Lewis, Warner, Company, assignee: *See*—
Lewis, Warner, Jr., and Clifton.

Lewis, Warner, Jr., and L. T. Clifton, assignors to Warner Lewis Company, Tulsa, Okla. Two-stage filter. 2,612,270, Sept. 30.

Liaaen, Nils Johannes: *See*—
Tornes, Ferdinand, and Liaaen.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Dearing, William C.
Hatcher, David B., and Bunnell.

Liberatore, Laurence C.: *See*—
Thompson, Robert D., and Liberatore.

Light, Harry B., San Gabriel, Calif. Infant's toilet seat. 2,612,210, Sept. 30.

Lincks, George F., Pittsfield, Mass., assignor to General Electric Company. Electrical protective device. 2,612,542, Sept. 30.

Lindau, John H., Kansas City, Mo., R. P. Stewart, and J. D. Black, Wilmore, Kans. Hydraulic lift for cutter bars. 2,612,018, Sept. 30.

Lindemann, Reinhard C., Lucca, N. Dak. Animal fountain. 2,612,138, Sept. 30.

Linster, Arthur A., assignee: *See*—
Longley, Horace E.

Lintern, A. R., Inc., assignee: *See*—
Lintern, Alfred R.

Lintern, Alfred R., Grosse Pointe Farms, assignor to A. R. Lintern Inc., Detroit, Mich. Radiator type heat exchanger. 2,612,349, Sept. 30.

Lipp, William, New York, assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Secret pull-out billfold wallet. 2,612,201, Sept. 30.

Lipton, Nat, Long Beach, Calif. Collapsible tube squeezer and brush holder. 2,612,290, Sept. 30.

Lloyd, Thomas F., Jr., Hartford, Conn. Fishing fly. 2,611,985, Sept. 30.

Loader, Alfred, Millbury, and M. S. Koylowski, Worcester, Mass. Apparatus for grinding crankshafts. 2,612,013, Sept. 30.

Loipersbeck, Julius, assignee: *See*—
Polymeros, George N.

Longenecker, Levi S., Mount Lebanon, Pa. Furnace roof structure. 2,612,124, Sept. 30.

Longley, Horace E., assignor of one-third to A. A. Linster, Elmira, N. Y. Sanding and abrading pad. 2,612,011, Sept. 30.

Lowe, Russell E.: *See*—
Morgan, John D., and Lowe.

Lowther, Franklin D., Sr., Belle, W. Va. Pump lubrication. 2,612,116, Sept. 30.

Loy, Cyril W., and M. H. Mullis, York, S. C., assignors to Kileze Company, Inc. Engine exhaust operated fluent material distributor. 2,611,992, Sept. 30.

Lukasiewicz, Sigmund J.: *See*—
Hartough, Howard D., and Lukasiewicz.

Lundquist, Gust, Seattle, Wash. Trap for rats and other rodents. 2,611,990, Sept. 30.

Luster, Norman L., Chicago, Ill. Valve for delivering carbonated beverages. 2,612,182, Sept. 30.

MacDonald, Robert N., assignor to E. I. du Pont de Nemours and company, Wilmington, Del. Alpha-amino, 4,6,6-trimethyl heptanoic acid. 2,612,521, Sept. 30.

MacGlashan, William F., Jr., Alhambra, Calif., assignor to United States of America as represented by the Secretary of the Army. Valved pipe coupling. 2,612,389, Sept. 30.

Maciejowski, John J., Ipswich, and F. T. MacKenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of insoles. 2,611,912, Sept. 30.

MacKenzie, Fred T.: *See*—
Maciejowski, John J., and MacKenzie.

Magnetrol, Inc., assignee: *See*—
Binford, Benjamin L.

Mahler, Joseph, Brookline, assignor to American Optical Company, Southbridge, Mass. Making light polarizers. 2,612,079, Sept. 30.

Maichin, Joseph, assignee: *See*—
Paul, Leonard B.

Manago, Joseph B., Jr.: *See*—
Schubert, Milton V., Jr., Langohr, Manago, Jr., and Badskey.

Manders, John A., Minneapolis, Minn. Towing device. 2,612,383, Sept. 30.

Manley, Victor, Longmeadow, Mass. Sacroiliac block. 2,612,158, Sept. 30.

Manson, Harry G.: *See*—
Hansen, William L., and Manson.

Manville, Charles T., Woodbury, assignor to The Seamless Rubber Company, New Haven, Conn. Syringe. 2,612,161, Sept. 30.

Marshall, Fitz-Hugh B., Glenshaw, and J. W. Coltman, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radiation detector. 2,612,610, Sept. 30.

Martin, Alexander I., assignee: *See*—
Nissen, Hans G.

Martin, Elizabeth B., assignee: *See*—
Buckley, John L. and L. G.

Martino, William J., Garden City, Mich. Compartment comb. 2,612,175, Sept. 30.

Masonite Corporation, assignee: *See*—
Spence, Oswald.

Mastrangelo, Frank, Fitchburg, Mass. Guide plate for latches. 2,612,399, Sept. 30.

Mathews, Frank J., Owatonna, Minn. Liquid measuring apparatus. 2,612,300, Sept. 30.

Mathewson, Maxwell I., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Backrest for grinding machines. 2,612,014, Sept. 30.

Matson, Theodore C., Long Beach, R. N. Riewerts, and D. E. Mortensen, Bellflower, Calif. Portable bed lamp with adjustable shutter. 2,612,599, Sept. 30.

May, Merrill R., Brooklyn, assignor to Sun Chemical Corporation, Long Island City, N. Y. Printing ink. 2,612,480, Sept. 30.

Maynard, James, assignor to Elgin Rowland Parker, Compton, Calif. Valve. 2,612,337, Sept. 30.

McCabe, Chester V., Crown Point, Ind., assignor to United States Steel Company. Discharge apparatus for coal charging hoppers. 2,612,299, Sept. 30.

McCann, Bert P., Seattle, Wash. Radiant heating pad for the feet and lower limbs. 2,612,585, Sept. 30.

McClellan, Marcus E., and L. G. Cheatum, Ottumwa, Iowa, and G. E. Hill, New Holland, Pa., assignors to Deere Manufacturing Co., Dubuque, Iowa. Automatic baler. 2,612,099, Sept. 30.

McCord Corporation, assignee: *See*—
Willard, Hobart H., and Gale.

McCune, William J., Jr., South Lincoln, assignor to Polaroid Corporation, Cambridge, Mass. Photographic product. 2,612,452, Sept. 30.

McDermott, Henry J.: *See*—
Merion, Howard D., and McDermott.

McFarland, Donald L., Stratford, Conn., assignor to General Electric Company. Electric heater. 2,612,591, Sept. 30.

McGan, Herman L., Uniontown, assignor of one-half to E. C. Walker, Henderson, Ky. Double-decked stock truck cooling and ventilating system. 2,612,027, Sept. 30.

McGuire, Winston B., assignor to P. O. M. Company, New York, N. Y. Installation for collecting and handling fibrous waste material. 2,612,278, Sept 30.

McLellan, Kenneth M., Cleveland, and R. W. Stanley, Rocky River, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Method and apparatus for handling continuously spun artificial threads or the like. 2,611,924, Sept. 30.

McNab, John G., Cranford, N. J., assignor to Standard Oil Development Company. Diesel fuel composition. 2,612,439, Sept. 30.

McNelll, Francis R., New Carlisle, K. A. Grillot, Spring Valley, and F. Abel, assignors to The Huffman Manufacturing Company, Dayton, Ohio. Wheeled supporting device attachable to bicycles or containers. 2,612,388, Sept. 30.

McQuay-Norris Manufacturing Company, assignee: *See*—
Persons, Lawrence M.

Mechanical Equipment Corp., assignee: *See*—
Baum, Frederick W.

Meijer, Hendrik W., Veendam, Netherlands. Manufacture of hexoseureides and thioureides. 2,612,497, Sept. 30.

Mendez, Alfredo, Chicago, Ill. Chemical heating pad. 2,612,155, Sept. 30.

Merion, Howard D., West Chester, and H. J. McDermott, Collingdale, Pa., assignors to American Viscose Corporation, Wilmington, Del. Apparatus for producing high tenacity artificial yarn and cord. 2,611,925, Sept. 30.

Merion, Howard D., West Chester, and H. J. McDermott, Collingdale, Pa., assignors to American Viscose Corporation, Wilmington, Del. Producing high tenacity artificial yarn and cord. 2,611,928, Sept. 30.

Merry, Richard C., Oakville, Ontario, Canada. Apparatus for assembling partitions for packing cells. 2,612,085, Sept. 30.

Merwin, Robert F., Erie, Pa. Magnetic separator. 2,612,268, Sept. 30.

Mesner, Max H., Princeton, N. J., assignor to Radio Corporation of America. Angular modulation. 2,612,634, Sept. 30.

Met-L-Wood Corporation, assignee: *See*—
Kendrick, John W.

Metropolitan Device Corporation, assignee: *See*—
Rypinski, Albert B.

Meyer, Geo. J., Manufacturing Co., assignee: *See*—
Carter, Sidney T.

Michel, Daniel, Chicago, Ill. Container closure member having a dispensing valve therein. 2,612,293, Sept. 30.

Miegel, Ralph E., Elsmere, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Solutions of homopolymers of certain optically active alnha-amino acids in polychloro- and poly fluoro-acetic acids. 2,612,487, Sept. 30.

Mikolay, Raymond M., Chicago, Ill., assignor to Tybond Tool Engineering Company. Cap discharge device. 2,611,999, Sept. 30.

Miles, James G., Sidney, N. Y. Vacuum tube characteristic tracer. 2,612,626, Sept. 30.

Miller, Charles: *See*—
Romanelli, Pat, and Miller.

Miller, Charles C., Jr., Springfield, assignor to Piasecki Helicopter Corporation, Morton, Pa. Main drive unit for tandem rotor helicopters. 2,612,062, Sept. 30.

Miller, Dorothy L., assignor of one-fourth to S. A. Miller, one-fourth to S. Jourgensen, and one-fourth to J. L. Jourgensen, Caspar, Wyo. Diaper. 2,612,164, Sept. 30.

Miller, Elmer C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Photometric analyzer. 2,612,608, Sept. 30.

Miller, Hercheal W.: *See*—
Buss, Benjamin A., and Miller.

Miller, Leonidas C., Los Angeles, Calif. Fluid driven actuator for tools. 2,612,140, Sept. 30.

Miller, Morris M., Des Moines, Iowa. Window stop device. 2,612,398, Sept. 30.

Miller Pottery Engineering Company, assignee: *See*—
Ryckman, George E.

Miller, Stanton A., assignee: *See*—
Miller, Dorothy L.

Millhiser Bag Company, Inc., assigne: *See*—
Golden, Bertie C.

Mills, Herbert E., Detroit, Mich. Stove door and window unit. 2,612,154, Sept. 30.

Milone, Louis J., Livingston, assignor to Orange Screen Company, Maplewood, N. J. All-weather window. 2,611,934, Sept. 30.

Miner, Charles H., Denver, Colo. Variable pitch pulley. 2,612,055, Sept. 30.

Mining Process and Patent Company, assignee: *See*—
Daman, Arthur C.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Barnes, George W., Jr.
Crum, Stephen.
Dyer, Clarence A.
Koch, Alfred R., Jr.
Ransome, Stafford G.
Sparrow, Hubert T.

Miottel, Elton L.: *See*—
Henkes, Peter M., and Miottel.

Mirau, André H., assignor to Society "La Precision Mecanique," Paris, France. Interferometer. 2,612,074, Sept. 30.

Miscovich, John A., Fairbanks, Territory of Alaska, assignor of one-half to G. S. Allin, Seattle, Wash. Hydraulic giant nozzle. 2,612,402, Sept. 30.

Mitchell, Reginald G., Brighton, H. C. Tait, Teddington, W. C. Webber, New Malden, R. G. Aickin, Teddington, P. A. Winsor, Great Sutton, and A. V. Billinghame, Eltham, England, assignors to Shell Development Company, San Francisco, Calif. Emulsifier compositions. 2,612,477, Sept. 30.

Mittag, Albert H.: *See*—
Alexanderson, Ernst F. W., Mittag, and Kuenning.

Mittendorf, Harvey C.: *See*—
Paulison, William L., Jr., and Mittendorf.

Mittendorf, Harvey C., East Orange, and W. L. Paulison, Jr., Ridgewood, N. J., said Mittendorf assignor to Combustion Engineering-Superheater, Inc., and said Paulison assignor to Bailey Meter Company. Control system for electric steam generators. 2,612,593, Sept. 30.

Mixing Equipment Co., Inc., assignee: *See*—
Boutros, Richard D.

Moeller, Harry A., and Claude L. Orr, assignors to The Buckeye Steeel Castings Company, Columbus, Ohio. Slack adjuster for brakes. 2,612,240, Sept. 30.

Molstedt, Byron V.: *See*—
Nicolai, Lloyd A., and Molstedt.

Monick, John A., New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Cooling of sprayed products. 2,612,266, Sept. 30.

Monsanto Chemical Company, assignee: *See*—
Baer, Massimo, and Fordyce.
Cameron, Martha E.
Emerson, William S., and Patrick.
Gluesenkamp, Earl W., and Patrick.
Golick, Alexander J.
Heimsch, Robert A., and Emerson.

Moon, Sterling C., Worthington, Ohio, assignor to The Jeffrey Manufacturing Company. Electric cable reel. 2,612,569, Sept. 30.

Mooney, Melvin, Mountain Lakes, N. J., assignor to United States Rubber Company, New York, N. Y. Thermally compensated rubber springs. 2,612,369, Sept. 30.

Moore, Frank L.: *See*—
Roberts, Willard A., Moore, and Conforti.

Moran, Jesse N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Synthesis of hydrocarbons from carbon monoxide and hydrogen by means of a fluidized fixed-bed. 2,612,512, Sept. 30.

Morey Machinery Co. Inc., assignee: *See*—
Kurzweil, Robert.

Morgan Construction Company, assignee: *See*—
Morgan, Myles, and O'Malley.

Morgan, John D., South Orange, and R. E. Lowe, East Orange, N. J., assignors, by mesne assignments, to Cities Service Research and Development Company, New York, N. Y. Resin base dispersion products and synthetic greases. 2,612,474, Sept. 30.

Morgan, Myles, and J. M. O'Malley, assignors to Morgan Construction Company, Worcester, Mass. Rolling mill coupling box support. 2,612,271, Sept. 30.

Morrell, Charles E., Westfield, and C. S. Carlson, Roselle, N. J., and N. C. Robertson, Corpus Christi, Tex., assignors to Standard Oil Development Company. Extractive distillation of ethanol contaminated by n-propanol. 2,612,467, Sept. 30.

Morrell, Charles E., Westfield, N. J., and E. R. Gilliland, Arlington, Mass., assignors to Standard Oil Development Company. Extractive distillation with salt solutions. 2,612,468, Sept. 30.

Morrison, Donald E., Nobel, assignor to A. V. Roe Canada Limited, Peel, Ontario, Canada. Cooling of gas turbine engine flame. 2,612,023, Sept. 30.

Morrison, James A., Washington, Iowa. Seat controlled mechanism for the control of the operation of motor vehicles. 2,612,232, Sept. 30.

Morrissey, John P., East Orange, N. J., assignor to General Electric Company. Inert gas welding torch. 2,612,584, Sept. 30.

Mortensen, Dale E.: *See*—
Matson, Theodore C., Riewerts, and Mortensen.

Morway, Arnold J., Rahway, and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Lubricating grease compositions. 2,612,472, Sept. 30.

Morway, Arnold J., Rahway, and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Lubricating grease compositions. 2,612,473, Sept. 30.

Moser, Otto, Berne, Switzerland. Translating apparatus for electric signal pulse combinations. 2,612,556, Sept. 30.

Muckala, Hugo H., Bagley, Minn. Automatic liquid supply regulator for milk driers. 2,612,181, Sept. 30.

Mueller, Ervin H., Grosse Pointe, Mich. Lighter structure for gas burners. 2,612,218, Sept. 30.

Mullis, Maxwell H.: *See*—
Loy, Cyril W., and Mullis.

Munsinger, Theodor R., Meeker, Colo. Portable well servicing rig. 2,612,242, Sept. 30.

Murphree, Eger V., Summit, N. J., assignor to Standard Oil Development Company. Fluidized solids contacting apparatus. 2,612,438, Sept. 30.

Musselman, Glenn H., Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Pulse transmitter synchronizing system. 2,612,601, Sept. 30.

National Broach & Machine Company, assignee: *See*—
Davis, Kenneth J.

National Cash Register Company, The, assignee: *See*—
Thacker, Ned A., and Threlkeld.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Johnstone, Charles W., and Dean.
Musselman, Glenn H.

Neer, Irwin G., Chicago, Ill. Dental articulator. 2,611,961, Sept. 30.

Neider, Mark, New York, N. Y. Glove or mitten construction. 2,611,901, Sept. 30.

Nelson, Frederick E., Greentree, Pa. Collapsible awning. 2,612,219, Sept. 30.

Nelson, Joseph F.: *See*—
Hudson, Boyd E., Jr., Wilson, and Nelson.

Nelson, Joseph F., Rahway, N. J., assignor to Standard Oil Development Company. Stabilization of organic materials with aryl polyphosphites. 2,612,488, Sept. 30.

Nelson, Laurence T., assignor to Portland Woolen Mills, Inc., Portland, Oreg. Convertible lap robe. 2,611,899, Sept. 30.

Nelson, Norman A., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Device for obtaining samples from well bores. 2,612,346, Sept. 30.

Nelson, Ted, San Leandro, Calif., assignor to Gregory Industries, Inc. Welding stud. 2,612,394, Sept. 30.

Neptune Meter Company, assignee: *See*—
Hazard, Charles S.

Newell, Arthur R., Topeka, Kans. Shroud supporting frame for automobile engine compartments. 2,612,233, Sept. 30.

Newman, Victor M., New York, N. Y. Tie lining guide mechanism. 2,612,126, Sept. 30.

Ney, William O., Jr., Somerset Center, Mass., assignor to General Aniline & Film Corporation, New York, N. Y. Preparation of esters of α,β-dichloropropionic acid. 2,612,519, Sept. 30.

Nichols, Frederick A., Stratford, and D. H. Vero, Bridgeport, Conn. Safety attachment for smokers' ash receptacles. 2,612,174, Sept. 30.

Nicholson, Madison G., Jr., Snyder, N. Y., assignor to Sylvania Electric Products Inc. Signal-to-noise ratio in pulse reception. 2,612,603, Sept. 30.

Nicolai, Lloyd A., and B. V. Molstedt, Baton Rouge, La., assignors to Standard Oil Development Company. Modification of annular stripper. 2,612,433, Sept. 30.

Nielsen, Frede D., Rødovre, Vanløse, Denmark. Letter balance. 2,612,365, Sept. 30.

Nilsson, Henry O., Centerport, N. Y., and L. R. Phillips, Teaneck, N. J., assignors to Anemostat Corporation of America, New York, N. Y. Probe device for fluid condition measuring apparatus. 2,612,047, Sept. 30.

Nissen, Hans G., assignor of one-half to A. I. Martin, New York, N. Y. Drink dispensing apparatus for carbonated beverages. 2,612,304, Sept. 30.

Noble & Wood Machine Co., assignee: *See*—
Hayes, Frank.

Nord, Ida P. W., Springfield, Mass. Unitary cooky cutter. 2,612,123. Sept. 30.

Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Machine for counting and stacking articles. 2,612 089. Sent. 30.

Norman, Wilson Y., Amarillo, Tex. Container for hypodermic preparations. 2,612,163, Sent. 30.

North American Aviation, Inc., assignee: *See*—
Wood, Thurman C.

Northrop Aircraft, Inc., assignee: *See*—
Crandall, Ronald E., and Glenn.
Hagen, Glenn E.

Noskowicz, Theodore S.: *See*—
Amdursky, Mark E., and Noskowicz.

Oberman, Roelof M. M., The Hague, Netherlands. Combined line finder final selector circuit. 2,612,564, Sept. 30.

Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.), assignee: *See*—
Lehmann, Gerard.

Ogle, Kathleen B., assignee: *See*—
Buckley, John L. and L. G.

Olssan, Carl, Bronx, N. Y. Door frame mounting. 2,611,932, Sept. 30.

O'Malley, Joseph M.: *See*—
Morgan, Myles, and O'Malley.

Ondrejca, Francis, assignee: *See*—
Ondrejca, Louis C. and J. F.

Ondrejca, Joseph F.: *See*—
Ondrejca, Louis C. and J. F.

Ondrejca, Louis C. and J. F., assignors of one-third to F. Ondrejca, Orefield, Pa. Resetting fuse plug. 2,612,575, Sept. 30.

Oosterveen, Alida J., assignee: *See*—
Van Rooy, Johannes M.

Orange Screen Company, assignee: *See*—
Milone, Louis J.

Orkin, Bernard A., Philadelphia, Pa., assignor to Socony-Vacuum Oil Company, Incorporated. Preparation of hexaalkoxydisilanes. 2,612,511, Sept. 30.

Orr, Claude L.: *See*—
Moeller, Harry A., and Orr.

Orr, Raymond F., and G. T. Junkin, assignors to The Residue Company, Fort Smith, Ark. Refining zinc ore. 2,612,441, Sept. 30.

O'Shea, Horace W., Jr.: *See*—
Dillon, Annie L., and O'Shea.

Oster, John, Manufacturing Company, assignee: *See*—
Brown, Ellis M., and Forss.

Overbaugh, Charles B., Denver, Colo. Radial holder for toothnicks and like articles. 2,612,259, Sept. 30.

Overhoff, Johan, and J. T. Hackmann, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Preparing alkali metal amides. 2,612,436, Sept. 30.

Oxygen Equipment Mfg. Co., assignee: *See*—
Schutzer, Henry E., and Frohner.

P. O. M. Company, assignee: *See*—
McGuire, Winston B.

Packer, Donald H., and P. R. George, Toledo, Ohio; said George assignor to said Packer. Power-operated bottle opener. 2,612,065, Sept. 30.

Pangborn Corporation, assignee: *See*—
Vedder, Walter O.

Parker, Elgin R., assignee: *See*—
Maynard, James.

Parker, James M., Glenhuntly, Victoria, Australia. Music printing or typewriting machine. 2,612,251, Sept. 30.

Parks, Regis E., Brooklyn, assignor to Spacarb, Inc., New York, N. Y. Refrigeration and carbonation unit. 2,612,357, Sept. 30.

Partington, George E.: *See*—
Rust, Noël M., and Partington.

Paton, James M., Fort William, Ontario, Canada. Swinging power-operated circular saw. 2,612,191, Sept. 30.

Patrick, Lawrence M., Detroit, Mich. Lamp switch. 2,612,570, Sept. 30.

Patrick, Tracy M., Jr.: *See*—
Emerson, William S., and Patrick.
Gluesenkamp, Earl W., and Patrick.

Paul, Leonard B., assignor of one-fourth to J. Maichin and one-fourth to E. Brusatori, Joliet, Ill. Vehicle headlight. 2,612,616, Sept. 30.

Paulison, William L., Jr.: *See*—
Mittendorf, Harvey C., and Paulison.

Paulison, William L., Jr., Ridgewood, and H. C. Mittendorf, East Orange, N. J.; said Paulison assignor to Bailey Meter Company, and said Mittendorf assignor to Combustion Engineering-Superheater, Inc. Control system for electric steam generators. 2,612,592, Sept. 30.

Peck, Albert C., and W. S. Thompson, Los Gatos, assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Regenerative furnace of the pebble bed type. 2,612,364, Sept. 30.

Percopo, Michael W., Brooklyn, assignor to E. R Squibb & Sons, New York, N. Y. Suppository package. 2,612,261, Sept. 30.

Perrin, Tom S., and R. G. Banner, Painesville, assignors to Diamond Alkali Company, Cleveland, Ohio. Recovery of vanadium-free chromate and aluminate. 2,612,435, Sept. 30.

Perry, Thorne: *See*—
Kinsman, Russell C., and Perry.

Persons, Lawrence M., Chesterfield, assignor to McQuay-Norris Manufacturing Company St. Louis, Mo. Solenoid-operated gas valve. 2,612,188. Sept. 30.

Peters, Stanley E., assignor to F. W. Geisler, Chicago Ill. Hairbrush with closure therefor. 2,611,916, Sept. 30.

Peterson, Edward M., Chicago, Ill. Center door bulkhead bracing. 2 612,122, Sept. 30.

Peterson, Walter S., Sr., Denver Colo. Manufacturing tapered fishing leaders. 2,612,003, Sept. 30.

Pettus, Joseph N.: *See*—
Faulkner, Harry R., Pettus, and Bradshaw.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Cylinder hone. 2,612,010, Sept. 30.

Phillips, Joseph W.: *See*—
Ingraham, Robert P., Phillips, and Ganis.

Phillips, Leonard R.: *See*—
Nilsson, Henry O., and Phillips.

Phillips Petroleum Company, assignee: *See*—
Miller, Elmer C.
Moran, Jesse N.

Pinsecki Helicopter Corporation, assignee: *See*—
Miller, Charles C., Jr.

Pierce, Maurice C., Madison, Wis. Golf tee. 2,612,373, Sept. 30.

Pierce, Raymond C., Chicago, Ill. Spring testing machine. 2,612,038, Sept. 30.

Piltz, Michael M., Halifax, Pa. Steering connection for vehicle pushed implements. 2,612,385, Sept. 30.

Pine, Cecil C., Lake Ronkonkoma, N. Y., assignor to The Sperry Corporation. Navigation aid system. 2,612,638, Sept. 30.

Pitney-Bowes, Inc., assignee: *See*—
Rouan, Francis J., and Knauer.

Ploeger, Clyde E., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,612,030, Sept. 30.

Plueddemann, Edwin P., Toledo, Ohio, assignor to Food Machinery and Chemical Corporation, Wilmington, Del. Production of esters of relatively strong organic and inorganic acids with aliphatic compounds having more than one carbon atom. 2,612,514, Sept. 30.

Polak, Louis M., Jr., Bethlehem, Pa. Scaffold support. 2,612,413, Sept. 30.

Polaroid Corporation, assignee: *See*—
Cohen, Saul G.
Land, Edwin H.
McCune, William J., Jr.

Pollman, Richard B., Detroit, Mich. Window construction. 2,612,097, Sept. 30.

Polymeros, George N., assignor of one-half to J. Loipersbeck, St. Paul, Minn. Tobacco pipe receptor. 2,612,171, Sept. 30.

Pomes, Helen, assignee: *See*—
Facio, Robert H., Sr.

Portland Woolen Mills, Inc., assignee: *See*—
Nelson, Laurence T.

Posey, William T.: *See*—
Fehr, Edith B., and Posey.

Potts, Roy C., Takoma Park, D. C. Box handle and fastening means. 2,612,308, Sept. 30.

Potts, Roy C., Takoma Park, Md. Combination handle and clip for containers. 2,612,309, Sept. 30.

Poupitch, Ongjesa J., assignor to Illinois Tool Works, Chicago, Ill. Fastening device. 2,612,245, Sept. 30.

Powder, Paul F.: *See*—
Graham, Harold J., and Powder.

Powell, John V., Price, Utah. Truck auxiliary brake. 2,612,241, Sept. 30.

Prismo Products, Inc., assignee: *See*—
Wilson, Rufus W.

Prokop, Leslie J., and R. C. Smith, deceased; E. M. Smith, executrix of said R. C. Smith, assignors of sixty per cent to said Prokop, and forty per cent to E. M. Smith, New Haven, Conn. Fountain-type cosmetic applicator. 2,611,915, Sept. 30.

Prox, Frank, Company, Inc., assignee: *See*—
Prox, Robert F., Jr., and Woods.

Prox, Robert F., Jr., West Terre Haute, and B. F. Woods, assignors to Frank Prox Company, Inc., Terre Haute, Ind. Cutter chain structure. 2,612,056, Sept. 30.

Pullman Company, The, assignee: *See*—
Crawford, David A.

Pulver, Robert, assignor to J. R. Geigy A. G., Basel, Switzerland. Production of chondroitin polysulfuric acid esters. 2,612,499, Sept. 30.

Quaker Stretcher Company, assignee: *See*—
Unwin, Kenneth J.

RKO Radio Pictures, Incorporated, assignee: *See*—
Turner, Willard H.

Raasch, Maynard S., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. N(p-aminophenyl)-hexamethylenimines. 2,612,500, Sept. 30.

Rabatine, Michael, Streator, Ill. Dividing protractor. 2,611,971, Sept. 30.

Radio Corporation of America, assignee: *See*—
Ayres, William R., and Woll.
Friedli, Robert, Jr.
Greenleaf, Francis D.
Kellogg, Edward W., and Isom.
Mesner, Max H.
Rust, Noël M., and Partington.

Rahalm, Peter A., Gardner, Mass. Making improved dowel stock and dowel pins. 2,612,195, Sept. 30.

Raibourn, Paul, Southport, Conn. Photographic processing. 2,612,447, Sept. 30.

Randall, David I., Easton, Pa., and E. E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Anthraquinone dyes. 2,612,507, Sept. 30.

Randol, Glenn T., St. Louis, Mo. Automotive power drive control system and mechanism. 2,612,247, Sept. 30.

Ranks, John E., Syracuse, N. Y., assignor to General Electric Company. Pulse delay circuit. 2,612,605, Sept. 30.

Ransome, Stafford G., Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Switch actuator. 2,612,368, Sept. 30.

Rasmussen, Thomas J., Schenectady, N. Y., assignor to General Electric Company. Water-repellent compositions. 2,612,482, Sept. 30.

Rauland Corporation, The, assignee: *See*—
Amdursky, Mark E., and Noskowicz.
Szegho, Constantin S., and Amdursky.
Szegho, Constantin S., Amdursky, and Reed.

Raytheon Manufacturing Company, assignee: *See*—
Gross, Fritz A.
Spencer, Percy L.

Ren, Wilton T., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic telegraph hub type repeater. 2,612,560, Sept. 30.

Ren, Wilton T., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Half-duplex telegraph repeater. 2,612,561, Sept. 30.

Rebman, Jack, assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio. Extensometer. 2,611,966, Sept. 30.

Reed, William O.: *See*—
Szegho, Constantin S., Amdursky, and Reed.

Reisinger, Frederick F., Willoughby, assignor to The Wire Coating and Manufacturing Company, Cleveland, Ohio. Rapid fine-grained copper electrodeposition. 2,612,469, Sept. 30.

Reiter, Alexander L., and J. J. Haverstock, South Bend, Ind., assignors, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Drier. 2,611,976, Sept. 30.

Renfrew, Edgar E.: *See*—
Randall, David I., and Renfrew.

Republic Steel Corporation, assignee: *See*—
Wheeler, Glenn E.
Whitehouse, Irving P., Krauss, and Damon.

Residue Company, The, assignee: *See*—
Orr, Raymond F., and Junkin.

Reuter, Ernst: *See*—
Gissel, Adolf, and Reuter.

Revers, Nicolnas, Limmen, Netherlands. Road roller. 2,612,090, Sept. 30.

Reynolds, Noel S., St. Louis, Mo. Piston sealing assembly. 2,612,419, Sept. 30.

Reynolds, Noel S., St. Louis, Mo. Packing cup expander. 2,612,420, Sept. 30.

Rhodes, Albert J., assignor to American Forging and Socket Company, Pontiac, Mich. Seat adjuster assembly. 2,612,208, Sept. 30.

Rhodes, Thomas J., Ramsey, N. J., assignor to United States Rubber Company, New York, N. Y. Apparatus for testing cord fatigue. 2,612,040, Sept. 30.

Rickhoff, Edward A.: *See*—
Rickhoff, John L. and E. A.

Rickhoff, John L. and E. A., Corona, Calif. Can straightener. 2,612,204, Sept. 30.

Ridgers, Frederick G., and C. W. Cassels, assignors to N. Slater Company Limited, Hamilton, Ontario, Canada. Insulator secured under tension to an insulator rack. 2,612,540, Sept. 30.

Riewerts, Roger N.: *See*—
Matson, Theodore C., Riewerts, and Mortensen.

Rines, Robert H., Brookline, Mass. Pulse-echo tracking system. 2,612,637, Sept. 30.

Ritter Company, Inc., assignee: *See*—
Lauterbach, Norman E.

Roberts, Willard A., Wethersfield, F. L. Moore, Newington, and E. D. Conforti, West Hartford, Conn., assignors to The Gray Manufacturing Company. Restoring records. 2,611,927, Sept. 30.

Robertson, Nat C.: *See*—
Morrell, Charles E., Carlson, and Robertson.

Robeson, Max O., and S. A. Blundell, Jr., Corpus Christi, Tex., assignors to Celanese Corporation of America. Production of pentaerythritol. 2,612,525, Sept. 30.

Robinson, Harold, Somerville, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Welding rod. 2,612,581, Sept. 30.

Rockmore Company, Inc., assignee: *See*—
Rockmore, Martin F.

Rockmore, Martin F., New Rochelle, assignor to Rockmore Company, Inc., New York, N. Y. Novelty cap. 2,611,902, Sept. 30.

Rockwell, Paul O., and J. C. Goshorn, Baltimore, Md., assignors to the United States of America as represented by the Secretary of War. Absorbent for purifying air. 2,612,434, Sept. 30.

Rockwood, George I., Worcester, Mass. Apparatus for handling patients. 2,611,905, Sept. 30.

Roe, A. V., Canada Limited, assignee: *See*—
Morrison, Donald E.

Rogers, Lockhart B.: *See*—
Griess, John C., Jr., and Rogers.

Rolls-Royce Limited, assignee: *See*—
Griffith, Alan A.

Romanelli, Pat, and C. Miller, New York, N. Y. Water metering flush valve assembly. 2,612,187, Sept. 30.

Romsos, Norman W., Crosby, N. Dak. Wire leader. 2,612,546, Sept. 30.

Ronning, Adolph, Minneapolis, Minn. Vehicle wheel compensating suspension. 2,612,387, Sept. 30.

Ronson Art Metal Works, Inc., assignee: *See*—
Flamm, Alexander L.

Roper, Geo. D., Corporation, assignee: *See*—
Albright, John R.

Roschke, Erwin M.: *See*—
Crotty, Francis W., and Roschke.

Rouan, Francis J., Stamford, and B. Knauer, East Norwalk, assignors to Pitney-Bowes, Inc., Stamford, Conn. Value setting, printing, and registering device. 2,612,104, Sept. 30.

Rowe Industries, assignee: *See*—
De Armond, Harry.

Rubin, Samuel L., Chicago, Ill. Skirt hanger. 2,612,301, Sept. 30.

Rummel, Roman, Dusseldorf-Benrath, Germany. Production of metals from their ores. 2,612,444, Sept. 30.

Russell, Glenn, Worthington, Ohio, assignor to The Jeffrey Manufacturing Company. Tapered locking bushing mechanism. 2,612,395, Sept. 30.

Rust, Noël M., Chelmsford, and G. E. Partington, Langdale, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Radio location and detection arrangement. 2,612,636, Sept. 30.

Ryan, John C., Toronto, Ontario, Canada. Machine for planing and jointing. 2,612,192, Sept. 30.

Ryckman, George E., Edgewood, assignor to Miller Pottery Engineering Company, Swissvale, Pa. Decoration stamping machine. 2,612,106, Sept. 30.

Rypinski, Albert B., Laurelton, assignor to Metropolitan Device Corporation, Brooklyn, N. Y. Circuit controlling device. 2,612,573, Sept. 30.

Saltzman, Allen J., Milwaukee, Wis. Interchangeable tripod foot tip. 2,612,335, Sept. 30.

Sam, Sam W., Chicago, Ill. Tooth cleaner. 2,612,176, Sept. 30.

Samiran, David, Fort Wayne, Ind. Continuous flow multiple tank fuel. 2,612,216, Sept. 30.

Sarkus, Philip G., Donora, Pa. Swingable and vertically adjustable bed tray. 2,612,422, Sept. 30.

Sarosdy, Louis J., assignor to Blaw-Knox Company, Pittsburgh, Pa. Discharge chute assembly for concrete mixers or the like. 2,612,250, Sept. 30.

Sayles, Myron E.: *See*—
West, Harry R., and Sayles.

Schatz, Elmer E., Upper Arlington, and O. Ham, Amlin, Ohio, assignors to Harry Ferguson, Inc., Detroit, Mich. Tractor attachment. 2,612,345, Sept. 30.

Schetzer, Charles H., Goodland, Kans. Accelerator footrest for automotive vehicles. 2,612,060, Sept. 30.

Schie, Arne J.: *See*—
Strâtvelt, Nils N., and Schie.

Schilling, Walter F., Los Angeles, Calif. Cigarette lighter. 2,612,588, Sept. 30.

Schjolin, Hans O., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Power transmission. 2,612,061, Sept. 30.

Schlegel, Kurt, New York, N. Y. Machine for slicing stationarily positioned bakery products. 2,612,198, Sept. 30.

Schlosser, Carl E.: *See*—
Taylor, William D., Voegtlin, and Schlosser.

Schmidt, Benjamin F., Los Angeles, Calif. Projectile. 2,612,108, Sept. 30.

Schmitt, Peter A., Modesto, Calif. Seam ripping device. 2,611,954, Sept. 30.

Schnabel Company, The, assignee: *See*—
Schnabel, Paul R.

Schnabel, Paul R., Oakmont, assignor to The Schnabel Company, Pittsburgh, Pa. Insulated refrigerator vehicle body. 2,612,028, Sept. 30.

Schneider, Jos., & Co., assignee: *See*—
Albrecht, Wolfram W.
Schütz, Karl H.
Weiss, Karl J.

Schocket, Abraham, Bronx, N. Y. Snap front handbag. 2,612,199, Sept. 30.

Schoenfeld, David M., New York, N. Y., assignor to Combustion Engineering-Superheater, Inc. Steam boiler with equalized water level. 2,612,144, Sept. 30.

Schoenhut, Harry E., Staunton, Va. Stocking package. 2,612,260, Sept. 30.

Schonstedt, Eric O.: *See*—
Alidredge, Leroy R., and Schonstedt.

Schrader, Milford J., and D. E. Cooke, assignors to Gibson Refrigerator Company, Greenville, Mich. Refrigerator door butter compartment. 2,612,029, Sept. 30.

Schreeck, Karl W., Cleveland, Ohio. Liquid cooled muffler. 2,612,235, Sept. 30.

Schubert, Milton V., Jr., B. E. Langohr, and J. B. Manago, Jr., Columbia City, and L. J. Badskey, North Manchester, assignors to LML Engineering & Manufacturing Corporation, Columbia City, Ind. Heat lamp safety fixture for brooders. 2,612,594, Sept. 30.

Schumacher, Erwin A.: *See*—
Heise, George W., and Schumacher.

Schütz, Karl H., Bad Kreuznach, assignor to Jos. Schneider & Co., Kreuznach, Germany. Optical system with semi-automatic diaphragm adjustment to preselected position. 2,612,093, Sept. 30.

Schutzer, Henry E., New York, and R. C. Frohner, Brooklyn, N. Y., assignors to Oxygen Equipment Mfg. Co. Wheeled attachment for hand trucks. 2,612,386, Sept. 30.

Schwarzkopf, Vergil, La Grange, assignor to The Lathrop-Paulson Company, Chicago, Ill. Weigh can dumping control. 2,612,180, Sept. 30.

Schweisthal, Frederick G., Skokie, assignor to Stewart-Warner Corporation, Chicago, Ill. Hose reel. 2,612,326, Sept. 30.

Seamless Rubber Company, The, assignee: *See*—
Manville, Charles T.

Sears, Joseph F., Minneapolis, Minn. Minnow dipper. 2,611,982, Sept. 30.

Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Co., Chicago, Ill. Slidably actuated loose-leaf binder. 2,612,169, Sept. 30.

Selbert, Carl F., Bradford, Pa., assignor to Dresser Industries, Inc., Cleveland, Ohio. Apparatus for forming tubular L's. 2,612,205, Sept. 30.

Seifried, Richard, assignee: *See*—
Gray, Landon R., and Smith.

Semmelman, John O., and J. E. Watson, York, Pa., assignors to The Dentists' Supply Company of New York, New York, N. Y. Artificial teeth. 2,611,958, Sept. 30.

Senior, Henry, and G. Tomlinson, assignors to Cascelloid Limited, Leicester, England. Jointed doll. 2,611,998, Sept. 30.

Senkel, Wesley, assignee: *See*—
Gipson, William C.

Servel, Inc., assignee: *See*—
Ploeger, Clyde E.
Simpson, Walter M.

Servis Equipment Company, assignee: *See*—
Jarmin, James B.

Shell Development Company, assignee: *See*—
Chernlavsky, Alexander J., and Brown.
Evans, Theodore W., Adelson, and Whitehill.
Mitchell, Reginald G., Tait, Webber, Aickin, Winsor, and Billingham.
Overhoff, Johan, and Hackmann.

Shelley, Edwin F., New York, N. Y., assignor to Curtiss-Wright Corporation. Stress measurement technique. 2,612,039, Sept. 30.

Shepherd, James E., Hempstead, and C. H. Guiles, East Hempstead, N. Y., assignors to The Sperry Corporation. Control circuits for cathode-ray tubes. 2,612,621, Sept. 30.

Sheppard, Richard H., Hanover, Pa. Pilot ignition. 2,612,146, Sept. 30.

Sherrard, Elwin W., Lincoln, Nebr. Illuminated electric outlet fixture. 2,612,597, Sept. 30.

Sidwell Brothers, assignee: *See*—
Sidwell, Carl L., and T. R.

Sidwell, Carl L. and T. R., assignors to C. L. and T. R. Sidwell, doing business as Sidwell Brothers, Devertown, Ohio. Screening mill. 2,612,321, Sept. 30.

Sidwell, Theodore R.: *See*—
Sidwell, Carl L., and T. R.

Siggers, Philip E., Wilmington, Del., assignor to the United States of America as represented by the Secretary of the Army. Tension adjustment for canvas cots. 2,611,908, Sept. 30.

Sigma Instruments, Incorporated, assignee: *See*—
Fisher, Richard T.

Silva, Alfred W., San Diego, Calif. Releasable fishing hook. 2,611,983, Sept. 30.

Silva, Alfred W., San Diego, Calif. Fishing lure. 2,611,986, Sept. 30.

Simmonds, Glen G., Kansas City, Mo. Handle for cartons or the like. 2,612,401, Sept. 30.

Simmons, Lovel R., Jackson, Miss. Weight-lifting logging sulky. 2,612,279, Sept. 30.

Simon-Carves, Limited, assignee: *See*—
Symington, Robert, and Hutcheson.

Simonsson, Lennart H., Stockholm, and L. T. Ulfstedt, Sodertälje, assignors to Internationella Siporex Aktiebolaget, Stockholm, Sweden. Rustproofing iron and steel reinforcing elements for steam cured concrete. 2,611,945, Sept. 30.

Simpson, Walter M., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Evaporative water cooler. 2,612,359, Sept. 30.

Singer, Henry, assignor of one-half to J. K. Goo Kim, Jr., Honolulu, Territory of Hawaii. Safety shield. 2,612,352, Sept. 30.

Singer Manufacturing Company, The, assignee: *See*—
Hayes, Frank A.

Sintercast Corporation of America, assignee: *See*—
Goetzel, Claus G.
Goetzel, Claus G., and Ellis.

Siracusa, Sisti, Santa Fe Springs, Calif. Portable drilling unit. 2,612,347, Sept. 30.

Skinner, Bronson C., Dunedin, Fla., assignor to Clinton Foods Inc., New York, N. Y. Apparatus for washing discrete units of solid materials. 2,612,178, Sept. 30.

Skinner, Elmer F., Danvers, Mass. Duplicating roll film cleaning device. 2,612,105, Sept. 30.

Slater, N., Company Limited, assignee: *See*—
Ridgers, Frederick G., and Cassels.

Slavick, Joseph V., Albuquerque, N. Mex., assignor of three-fourths to H. D. White, Chicago, Ill. Apparatus for heat-treating mineral material. 2,612,263, Sept. 30.

Sloan Valve Company, assignee: *See*—
Filliung, Jacques J.

Sloman, Robert A., assignee: *See*—
Weis, William B.

Smida, Luverne R., assignor to W. W. Young, an individual doing business under the fictitious name and style of W. W. Young Co., Stockton, Calif. Buckle link applying machine for bale straps. 2,612,203, Sept. 30.

Smith, Ethel M., executrix, assignee: *See*—
Prokop, Leslie J., and Smith.

Smith, George D., Toledo, Ohio. Supplementary fixture support. 2,612,273, Sept. 30.

Smith, Harry P., Jr.: *See*—
Gray, Landon R., and Smith.

Smith, John W.: *See*—
Hester, Frank A., and Smith.

Smith Kline & French Laboratories, assignee: *See*—
Ullyot, Glenn E.

Smith, Paul V., Jr.: *See*—
Morway, Arnold J., and Smith.

Smith, Robert C.: *See*—
Prokop, Leslie J., and Smith.

Smith, Samuel V., Long Beach, Calif. Pump jack valve control mechanism. 2,612,142, Sept. 30.

Snook, Roger M., San Francisco, Calif. Can tear strip guide and measuring cup. 2,612,287, Sept. 30.

Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Closure construction for metallic containers. 2,612,284, Sept. 30.

Societe dite: Compagnie de Fives-Lille, assignee: *See*—
Bernard, Auguste.

Society "La Precision Mecanique," assignee: *See*—
Mirau, André H.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Angona, Frank A.
Feasley, Charles F.
Hartough, Howard D., and Lukasiewicz.
Hemphill, William B.
Orkin, Bernard A.

Solloway, Harry, and T. L. Bonkowski, Los Angeles, Calif. Article projecting figure toy. 2,611,997, Sept. 30.

Spacarb, Inc., assignee: *See*—
Parks, Regis E.

Sparks, William J., and R. M. Thomas, Westfield, N. J., assignors to Standard Oil Development Company. Nonconjugated higher diolefin homopolymers. 2,612,493, Sept. 30.

Sparrow, Hubert T., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Engine pressure and speed control device. 2,612,225, Sept. 30.

Spence, Oswald, Hattiesburg, assignor to Masonite Corporation, Laurel, Miss. Making hardboard and the like containing furfuryl alcohol resins. 2,612,445, Sept. 30.

Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. Anode structure for electron discharge devices. 2,612,623, Sept. 30.

Sperry Corporation, The, assignee: *See*—
Carter, Leslie F.
Pine, Cecil C.
Shepherd, James E., and Gulles.

Springer, Karl A., Philadelphia, Pa. Combined gauge and grooving device for dowel pins and the like. 2,612,193, Sept. 30.

Sprung, Richard W.: *See*—
Steiner, Wilfred A., and Sprung.

Squibb, E. R., & Sons, assignee: *See*—
Percopo, Michael W.

Stadler, Walter L., Bayside, assignor to The Griscom-Russell Company, New York, N. Y. Expansion compensated countercurrent heat exchanger. 2,612,350, Sept. 30.

Stahmer, Bernhardt, Omaha, Nebr. Potato chip construction. 2,612,453, Sept. 30.

Standard Oil Company, assignee: *See*—
Giachetto, John J., Wagner and Wolf.

Standard Oil Development Company, assignee: *See*—
Bartlett, Jeffrey H.
Horeczy, Joseph T.
Hudson, Boyd E., Jr., Wilson, and Nelson.
Kaulakis, Arnold F., and Codet.
McNab, John G.
Morrell, Charles E., Carlson and Robertson.
Morrell, Charles E., and Gilliland.
Morway, Arnold J., and Smith.
Murphree, Eger V.
Nelson, Joseph F.
Nelson, Norman A.
Nicolai, Lloyd A., and Molstedt.
Sparks, William J., and Thomas.

Standing, Sidney A., Short Hills, assignor to Tung-Sol Lamp Works, Inc., Newark, N. J. Luminescent screen for image reproducing tubes. 2,612,476, Sept. 30.

Stanley, Richard W.: *See*—
McLellan, Kenneth M., and Stanley.

Stapp, Olin H.: *See*—
Kramer, David, and Stapp.

Stark, Nathan I., West Orange, N. J., assignor, by mesne assignments, to Fandex, Inc., New York, N. Y. Card system. 2,612,168, Sept. 30.

Stedman, Donald F., assignor to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada. Method and composition for rendering window surfaces water repellent and product resulting therefrom. 2,612,458, Sept. 30.

Steiner, Harry C., Scotia, N. Y., assignor to General Electric Company. Electric discharge device. 2,612,613, Sept. 30.

Steiner Machine Products Company, assignee: *See*—
Steiner, Wilfred A., and Sprung.

Steiner, Wilfred A., and R. W. Sprung, assignors to Steiner Machine Products Company, Detroit, Mich. Automatic beverage mixer. 2,612,353, Sept. 30.

Steinle, Leo E.: *See*—
Kirby, Walter G., and Steinle.

Stephens, William E., Philadelphia, Pa. Mass spectrometer. 2,612,607, Sept. 30.

Sterba, Edward C.: *See*—
Sterba, George J. and E. C.

Sterba, George J. and E. C., Western Springs, Ill. Centering perforator punch with interchangeable punches. 2,612,222, Sept. 30.

Sterling Drug Inc., assignee: *See*—
Archer, Sydney.
King, John A.

Steven, George, Kenmore, and R. R. Fruehauf, Orchard Park, N. Y., assignors to Worthington Corporation. Apparatus for automatically switching from gas fuel to oil fuel in dual fuel internal-combustion engines. 2,612,145, Sept. 30.

Stewart, Robert P.: *See*—
Lindau, John H., Stewart, and Black.

Stewart-Warner Corporation, assignee: *See*—
Campbell, Thomas A., and Harris.
Dahlgren, John V. S.
Schwelsthal, Frederick G.
Tear, Harry R.

Stokes, F. J., Machine Company, assignee: *See*—
Flosdorf, Earl W., and Hull.

Straney, Kenneth O., Scotia, N. Y., assignor to General Electric Company. Field mapping machine. 2,612,627, Sept. 30.

Strâtveit, Nils N., Oslo, and A. J. Schie, Drammen, Norway. Measuring the moisture content of a running web. 2,611,974, Sept. 30.

Stueland, Harold M., East Moline, assignor to Deere & Company, Moline, Ill. Bucket or shovel construction for loaders. 2,612,280, Sept. 30.

Stueland, Lafe, Alameda, Calif. Resetting attachment for fluorescent lamp starters. 2,612,578, Sept. 30.

Stuetzer, Otmar M., Dayton, Ohio. Transconductor employing field controlled semiconductor. 2,612,567, Sept. 30.

Stufft, John W., McKeesport, Pa., assignor to United States Steel Corporation. Closure and seal therefor. 2,612,286, Sept. 30.

Stump, William L.: *See*—
Zettlemoyer, Albert C., Walker and Stump.

Stutt, James D., Paradise, Tex. Automobile rear door latch. 2,612,397, Sept. 30.

Sun Chemical Corporation, assignee: *See*—
May, Merrill R.

Superba Cravats, Inc., assignee: *See*—
Hertz, Helmut.

Superior Pneumatic & Manufacturing, Inc., assignee: *See*—
Terry, Jack E.

Sutherland Paper Company, assignee: *See*—
Houtman, Harold R.
Willbrandt, Franklin M.

Sutterfield, Noel H., Milwaukee, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Liquid fuel burner. 2,612,217, Sept. 30.

Swanson, Earnest F., Bristol, Ind. Portable traffic signal and the like. 2,612,548, Sept. 30.

Swisher, Thomas H.: *See*—
Borman, Philip K., and Swisher.

Sylvania Electric Products Inc., assignee: *See*—
Nicholson, Madison G., Jr.
Thalner, Robert R.

Symington, Robert and L. H. Cleat, Cheadle Heath, Stockport, assignors to Simon-Carves, Limited, Stockport, England. Apparatus for effecting magnetically a separation between magnetizable and nonmagnetizable particles contained in liquids, slurries and the like. 2,612,262, Sept. 30.

Szegho, Constantin S., and M. E. Amdursky, Chicago, Ill., assignors to The Rauland Corporation. Cathode-ray tube. 2,612,611, Sept. 30.

Szegho, Constantin S., M. E. Amdursky and W. O. Reed, Chicago, Ill., assignors to The Rauland Corporation. Cathode-ray tube. 2,612,612, Sept. 30.

Szuderski, Joseph J., Glendale, N. Y. Medicated pacifier. 2,612,165, Sept. 30.

Tait, Harold C.: *See*—
Mitchell, Reginald C., Tait, Webber, Aickin, Winsor and Billinghame.

Tavano, John B., Waterbury, Conn. Machine for mitering and cutting finger grips in glass. 2,612,009, Sept. 30.

Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Soluble copolymers of diallylic phthalates and allylic alcohols. 2,612,492, Sept. 30.

Taylor Instrument Companies, assignee: *See*—
Thompson, Robert D., and Liberatore.

Taylor, Roland F., Manchester, assignor to A. T. S. Company Limited, London, England. Hollow threaded rivet. 2,612,073, Sept. 30.

Taylor, William D., and E. W. Voegtlin, East Orange, and C. E. Schlosser, Livingston, N. J. Digester for manufacture of fertilizer. 2,611,975, Sept. 30.

Tear, Harry R., Evanston, assignor to Stewart-Warner Corporation, Chicago, Ill. Centralized lubricating system. 2,612,237, Sept. 30.

Telefonaktiebolaget L M Ericsson, assignee: *See*—
Hullegård, Erik W.

Templeton, John B., Dallas, Tex. Roadway load hanger. 2,611,943, Sept. 30.

Terry, Jack E., North Royalton, assignor, by mesne assignments, to Superior Pneumatic & Manufacturing, Inc., Garfield Heights, Ohio. Throttle valve for pneumatic tools. 2,612,342, Sept. 30.

Texaco Development Corporation, assignee: *See*—
Kiersted, Wynkoop, Jr., and Gross.

Thacker, Ned A., and D. S. Threlkeld, assignors to The National Cash Register Company, Dayton, Ohio. Applying an ornamental and protective crackle coating to a base. 2,612,456, Sept. 30.

Thalner, Robert R., Buffalo, N. Y., assignor to Sylvania Electric Products Inc. Scanning system for cathode-ray tubes. 2,612,622, Sept. 30.

Thomas, Robert M.: *See*—
Sparks, William J., and Thomas.

Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Adjustable load engager for vehicle lifts. 2,612,344, Sept. 30.

Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Vehicle hoist. 2,612,355, Sept. 30.

Thompson Grinder Company, The, assignee: *See*—
Ernst, Walter.
Krafft, Frederich G.

Thompson Products, Inc., assignee: *See*—
Angell, Pierce T., and Leska.
Snyder, Jacob R.

Thompson, Robert D., Penfield, and L. C. Liberatore, assignors to Taylor Instrument Companies, Rochester, N. Y. Manufacturing a maximum registering thermometer. 2,612,002, Sept. 30.

Thompson, Wendell S.: *See*—
Peck, Albert C., and Thompson.

Threlkeld, Doris S.: *See*—
Thacker, Ned A., and Threlkeld.

Timken-Detroit Axle Company, The, assignee: *See*—
Sutterfield, Noel H.

Tobin-Arp Manufacturing Company, assignee: *See*—
Arp, Ewald A.

Toledo Plate & Window Glass Company, The, assignee: *See*—
Heffley, Howard H.

Toledo Scale Company, assignee: *See*—
Williams, Lawrence S.

Tomlinson, George: *See*—
Senior, Henry, and Tomlinson.

Tornes, Ferdinand, and N. J. Linaen, Aalesund, Norway. Variable pitch propeller blade root construction. 2,612,229, Sept. 30.

Torpedo Werke Aktiengellschaft, Fahrräder und Schreibmaschinen, assignee: *See*—
Gissel, Adolf, and Reuter.

Toth, Emerick, Takoma Park, Md., and G. H. Burbage, Washington, D. C. Shaft position control mechanism. 2,612,050, Sept. 30.

Triplett Electrical Instrument Company, The, assignee: *See*—
Triplett, William R.

Triplett, William R., assignor to The Triplett Electrical Instrument Company, Bluffton, Ohio. Instrument cover. 2,612,132, Sept. 30.

Trojan Manufacturing Company, assignee: *See*—
Fraizer, Frank L., and Waltz.

Trotta, James, New York, N. Y. Magnetoelectric shocking device. 2,612,624, Sept. 30.

Troxel Manufacturing Company, The, assignee: *See*—
Kalter, Harold E.

Trussell, Clarence D., Turnwood, N. Y. End lock for rings of mechanical bindings. 2,612,166, Sept. 30.

Tully, Marc, Marseille, France. Adjustable haircutting instrument. 2,611,951, Sept. 30.

Tung-Sol Lamp Works, Inc., assignee: *See*—
Standing, Sidney A.

Turkowski, Walter, Hollywood, Ill. Construction of Venetian blinds. 2,612,220, Sept. 30.

Turner, Willard H., assignor to RKO Radio Pictures, Incorporated, Los Angeles, Calif. Variable resistor signal equalization. 2,612,537, Sept. 30.

Tuttle, Spencer C., assignor to Cly-Del Mfg. Co., Waterbury, Conn. Broom cap. 2,612,336, Sept. 30.

Tybond Tool Engineering Company, assignee: *See*—
Mikolay, Raymond M.

Ulfstedt, Leo T.: *See*—
Simonsson, Lennart H., and Ulfstedt.

Ullyot, Glenn E., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa. Basic ether-substituted isoquinolines. 2,612,503, Sept. 30.

Umberger, Jacob Q., Holmdel, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Photographic elements having a light-sensitive silver halide layer and a stripping layer composed of a polyvinyl pyridine quaternary salt and using such elements. 2,612,446, Sept. 30.

Underwood Corporation, assignee: *See*—
Anderson, Walter A.
Helmond, William F.

Union Carbide and Carbon Corporation, assignee: *See*—
Cahoon, Nelson C., and Heise.
Heise, George W., and Schumacher.

Union Oil Company of California, assignee: *See*—
Doumani, Thomas F., and Coe.
Fischer, Paul W.

United Aircraft Corporation, assignee: *See*—
Carlson, Russell M.

United Shoe Machinery Corporation, assignee: *See*—
Gookin, Sylvester L.
Maciejowski, John J., and MacKenzie.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Griess, John C., Jr., and Rogers.

United States Envelope Company, assignee: *See*—
Heywood, Vincent E.

United States Plywood Corporation, assignee: *See*—
Cone, Charles N.

United States Rubber Company, assignee: *See*—
Eger, Ernst.
Grannis, William C.
Heide, John D., and Feldman.
Kirby, Walter G., and Steinle.
Mooney, Melvin.
Rhodes, Thomas J.
Tawney, Pliny O.

United States Steel Company, assignee: *See*—
Davis, Henry M.
McCabe, Chester V.
Wearne, Richard D.
Stufft, John W.

Universal Manufacturing Corp., assignee: *See*—
Kirkpatrick, John A.

Unwin, Kenneth J., assignor, by mesne assignments, to Quaker Stretcher Company, Kenosha, Wis. Curtain stretcher construction. 2,611,993, Sept. 30.

Upjohn Company, The, assignee: *See*—
Leach, Byron E.

Vanasse, Charles E., New York, N. Y. Manually operated fluid applicator. 2,611,914, Sept. 30.

Van Houtte, Ghislain and A. Demeuse, Brussels, Belgium. Guide for indicating the fecundity rhythm in women. 2,612,317, Sept. 30.

Van Rooy, Johannes M., assignor of one-quarter to H. Boer and one-quarter to A. J. Oosterveen, The Hague, Netherlands. Testing fluid ducts. 2,612,037, Sept. 30.

Vedder, Walter O., assignor to Pangborn Corporation, Hagerstown, Md. Dust collector. 2,612,236, Sept. 30.

Veeder-Root Incorporated, assignee: *See*—
Vroom, Harold B.

Venditty, Anthony, assignor to Crawford Door Company, Detroit, Mich. Lock for upward acting doors. 2,612,396, Sept. 30.

Ventslas, James: *See*—
Ventslas, Thomas J. and J.

Ventslas, Thomas J. and J., Joliet, Ill. Vacuum cleaner attachment for use in cleaning Venetian blinds. 2,611,917, Sept. 30.

Vero, Donald H.: *See*—
Nichols, Frederick A., and Vero.

Verrinder, Ernest A., Riverside, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Box dumper. 2,612,277, Sept. 30.

Vincent "H. R. D." Company Limited, assignee: *See*—
Vincent, Philip C.

Vincent, Philip C., assignor to Vincent "H. R. D." Company Limited, Stevenage, England. Driving unit for motor vehicles. 2,612,148, Sept. 30.

Vinco Corporation, assignee: *See*—
Wollner, Hans.

Viscoseal Corporation, The, assignee: *See*—
Lewis, Douglas R.

Voegtlin, Edmund W.: *See*—
Taylor, William D., Voegtlin, and Schlosser.

Vogel, Reynold S., Portland, Oreg. Stair climbing vehicle attachment. 2,612,379, Sept. 30.

Vogel, Walter, Santiago, Chile. Process and apparatus for preparatory dressing of coal, minerals, and other solids, using a heavy liquid. 2,612,267, Sept. 30.

Vogel, Walter, Santiago, Chile. Apparatus for the specific gravity classification of bulk substances. 2,612,269, Sept. 30.

Von Duyke, Harrison M., Wilmington, Del., assignor to Von Evan, Inc., Avondale, Pa. Condiment dispenser. 2,612,292, Sept. 30.

Von Evan, Inc., assignee: *See*—
Von Duyke, Harrison M.

Von Glahn, William H., Loudonville, and H. A. Bergstrom, Albany, assignors to General Aniline & Film Corporation, New York, N. Y. Stabilized diazonium salts and effecting same. 2,612,494, Sept. 30.

Von Glahn, William H., Loudonville, and H. A. Bergstrom, Albany, assignors to General Aniline & Film Corporation, New York, N. Y. Stabilized diazonium salts and effecting same. 2,612,495, Sept. 30.

Vroom, Harold B., assignor to Veeder-Root Incorporated, Hartford, Conn. Recorder. 2,612,428, Sept. 30.

Wadenstein, Oscar E., assignor, by mesne assignments, to Fuel Reduction Engineers, Inc., St. Paul, Minn. Draft control. 2,612,319, Sept. 30.

Waggoner, Frank H., Ramsey, N. J. Container closure. 2,612,307, Sept. 30.

Wagner, Donnell H.: *See*—
Giachetto, John J., Wagner, and Wolf.

Wainwright, Carlyle H.: *See*—
Deans, Frederick E., and Wainwright.

Waite, Philip M., Corry, Pa. Irreversible throttle control. 2,612,058, Sept. 30.

Wakefield, Kenneth E., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic pump. 2,612,109, Sept. 30.

Wakeman, Catherine E., Vancouver, British Columbia, Canada. Bedpan. 2,611,903, Sept. 30.

Walker, Ezra C., assignee: *See*—
McGan, Herman L.

Walker, William C.: *See*—
Zettlemoyer, Albert C., Walker, and Stump.

Waltz, Ernest H.: *See*—
Fraizer, Frank L., and Waltz.

Wanamaker, Seth, Ramsey, N. J. Toilet tank fitting holding tool. 2,611,949, Sept. 30.

Wangelin, Donald A., Rock Island, assignor to Deere & Company, Moline, Ill. Machine for forming teeth for peg tooth harrows. 2,612,063, Sept. 30.

War, United States of America as represented by the Secretary of, assignee: *See*—
Rockwell, Paul O., and Goshorn.

Warren, Henry R., assignor to The Girdler Corporation, Louisville, Ky. Adjustable electrode assembly for high-frequency heating systems. 2,612,595, Sept. 30.

Warren-Laboratories, assignee: *See*—
Coleman, Maurice I.

Warrick, Leland K., Muskegon Heights, and F. E. La Flame, Twin Lake, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Compressor-motor assembly. 2,612,311, Sept. 30.

Warsaw, George B., Los Angeles, Calif. Soldering tool for tube sockets and terminal strips. 2,612,128, Sept. 30.

Watkins, Walter G., North Kansas City, assignor of one-half to C. Withers, Liberty, Mo. Wheel chock for dual wheel vehicles. 2,612,239, Sept. 30.

Watson, John E.: *See*—
Semmelman, John O., and Watson.

Watt Car & Wheel Company, The, assignee: *See*—
Boyd, Clarence A.

Wearne, Richard D., Crown Point, Ind., assignor to United States Steel Company. Discharge apparatus for coal hoppers. 2,612,298, Sept. 30.

Webber, William C.: *See*—
Mitchell, Reginald G., Tait, Webber, Aickin, Winsor, and Billinghame.

Wedge, Fred D.: *See*—
Buenger, Edward F., and Wedge.

Wehner, Robert S., Hempstead, assignor to Airborne Instruments Laboratory, Inc., Mineola, N. Y. Antenna excitation system. 2,612,606, Sept. 30.

Weidelstam, Gustaf A., Irisgatan, Sweden. Hinge with mutually displaceable members for adjustment thereof. 2,611,921, Sept. 30.

Weigman, John J., Englewood, assignor of one-fourth to S. E. Kelley, Denver, Colo. Trailer hitch. 2,612,384, Sept. 30.

Weis, William B., assignor of ninety per cent to L. Helpert and ten per cent to R. A. Sloman, Detroit, Mich. Air motor and pump. 2,612,143, Sept. 30.

Weiss, Karl J., Bad Kreuznach, assignor to Jos. Schneider & Co., Kreuznach, Germany. Optical system with automatic photometering and diaphragm adjusting means. 2,612,091, Sept. 30.

Weller, Ward W., Auburndale, Mass. Snowplow shoe. 2,611,979, Sept. 30.

Wendt, Johannes H., Williams Bay, Wis. Concave bottom hull construction. 2,612,130, Sept. 30.

West, Ernest: *See*—
West, Frederick J. and E.

West, Frederick J. and E., assignors to West's Gas Improvement Company Limited, Manchester, England. Coke and like screening machine. 2,612,264, Sept. 30.

West, Harry R., and M. E. Sayles, Pittsfield, Mass., assignors to General Electric Company. Induction voltage regulator. 2,612,635, Sept. 30.

Westinghouse Air Brake Company, assignee: *See*—
Gorman, Andrew T., and Cook.

Westinghouse Electric Corporation, assignee: *See*—
Hill, Lawrence R., and Campbell.
Marshall, Fitz-Hugh B., and Coltman.

West's Gas Improvement Company Limited, assignee: *See*—
West, Frederick J. and E.

Wheeler, Everett T., Brookline, Mass. Combination shutter and awning. 2,611,936, Sept. 30.

Wheeler, Glenn E., Hamburg, N. Y., assignor to Republic Steel Corporation, Cleveland, Ohio. Apparatus for carrying and adjustably positioning elongated articles. 2,612,366, Sept. 30.

Wheel Trueing Tool Company, assignee: *See*—
Catullo, Leo.

White, Elzie C., assignor to Hansen Manufacturing Company, Princeton, Ind. Bearing unit structure. 2,612,417, Sept. 30.

White, Howard D., assignee: *See*—
Slavick, Joseph V.

Whitebread, Ned B., Sterling, assignor to Kollte Plastics Co., Dixon, Ill. Combination advertising sign and illuminating device. 2,611,981, Sept. 30.

Whitehill, Lynwood N.: *See*—
Evans, Theodore W., Adelson, and Whitehill.

Whitehouse, Irving P., South Euclid, W. W. Krauss, Aurora, and A. G. Damon, Lakewood, assignors to Republic Steel Corporation, Cleveland, Ohio. Wall construction. 2,612,246, Sept. 30.

Whiton Machine Company, The, assignee: *See*—
Highberg, George A.

Wildbolz, Rudolf, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland. Arrangement for producing a spun short-fiber yarn. 2,611,931, Sept. 30.

Willard, Hobart H., Ann Arbor, Mich., and W. S. Gale, Syracuse, N. Y., assignors to McCord Corporation, Detroit, Mich. Soldering flux. 2,612,459, Sept. 30.

Willard, Hobert H., Ann Arbor, Mich., and W. S. Gale, Syracuse, N. Y., assignors to McCord Corporation, Detroit, Mich. Soldering. 2,612,460, Sept. 30.

Willbrandt, Franklin M., Battle Creek, assignor to Sutherland Paper Company, Kalamazoo, Mich. Machine for erecting cartons. 2,612,087, Sept. 30.

Williams, Benjamin M.: *See*—
Klasing, Arthur P., and Williams.

Williams, John G., Philadelphia, Pa., assignor to Cochrane Corporation. Condensate return system. 2,612,112, Sept. 30.

Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Pivot bearing. 2,612,415, Sept. 30.

Williamson, James C., Albany, Ga. Smoking stand. 2,612,313, Sept. 30.

Wilman, Cecil V.: *See*—
Distin, Lionel S., and Wilman.

Wilson, Howard L.: *See*—
Hudson, Boyd E., Jr., Wilson, and Nelson.

Wilson-Jones Co., assignee: *See*—
Segal, Samuel.

Wilson-Jones Company, assignee: *See*—
Buenger, Edward F., and Wedge.

Wilson, Robert H., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Triazine substances for textile treatment. 2,612,501, Sept. 30.

Wilson, Rufus W., Huntingdon, Pa., assignor to Prismo Products, Inc., Dayton, Ohio. Device for applying pellets to an upright adhesive surface. 2,612,374, Sept. 30.

Winder, Samuel E., assignee: *See*—
Youkers, Harold A.

Winsor, Philip A.: *See*—
Mitchell, Reginald G., Tait, Webber, Aickin, Winsor, and Billinghame.

Winter, David F., St. Louis, Mo., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Bridge type deflection circuit. 2,612,620, Sept. 30.

Wire Coating and Manufacturing Company, The, assignee: *See*—
Reisinger, Frederick F.

Wise, Wm. H., & Co., Inc., assignee: *See*—
Crawley, John J.

Withers, Conn, assignee: *See*—
Watkins, Walter G.

Wolf, Joseph E.: *See*—
Giachetto, John J., Wagner, and Wolf.

Woll, Harry J.: *See*—
Ayres, William R., and Woll.

Wollner, Hans, assignor to Vinco Corporation, Detroit, Mich. Expansion arbor. 2,612,376, Sept. 30.

Wood, Thurman C., Inglewood, Calif., assignor to North American Aviation, Inc. Releasable canopy. 2,612,333, Sept. 30.

Woods, Benjamin F.: *See*—
Prox, Robert F., Jr., and Woods.

Worthington Corporation, assignee: *See*—
Steven, George, and Fruehauf.

Worthington, Wayne H., Waterloo, assignor to Deere Manufacturing Co., Dubuque, Iowa. Dual check valve assembly for hydraulic control systems. 2,612,375, Sept.

Wyatt, Ella M., executrix: *See*—
Wyatt, James R.

Wyatt, James R., deceased, Havertown, Pa.; E. M. Wyatt, executrix. Phosphorizing apparatus flow gauge. 2,612,045, Sept. 30.

Wyeth Incorporated, assignee: *See*—
Alburn, Harvey E.

Wyman, Bryce W., Havertown, Pa., assignor to General Electric Company. Circuit restorer. 2,612,574, Sept. 30.

Yamada, Masanori, St. Thomas, Ontario, Canada. Slipper having wings integral with sole. 2,611,977, Sept. 30.

Yonkers, Edward H., Glencoe, assignor to Joslyn Manufacturing and Supply Company, Chicago, Ill. Open type luminaire with easily removable reflector. 2,612,600, Sept. 30.

Yorburg, David M., Durham, Conn. Material-selecting reel. 2,612,324, Sept. 30.

Youkers, Harold A., Knox, Pa., assignor of one-half to H. C. Daubenspeck, Massillon, Ohio, and one-half to S. E. Winder, Washington, Pa. Glassware spacing device. 2,612,256, Sept. 30.

Young, W. W., assignee: *See*—
Smida, Luverne R.

Yugen-Khisha Sanei Sangyo, assignee: *See*—
Kizawa, Takeo.

Zabriskie, Charles L., assignor to Essex Products, Inc., New York, N. Y. Fire extinguisher. 2,612,224, Sept. 30.

Zang, Elbern A., Wichita, Kans. Axially shifting type hydraulically operable tire remover. 2,612,214, Sept. 30.

Zemany, Paul D., Schenectady, N. Y., assignor to General Electric Company. Thermometer. 2,612,048, Sept. 30.

Zenith Radio Corporation, assignee: *See*—
Crotty, Francis W., and Roschke.
Gray, Richard O.

Zettel, Joseph H., Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Laminated insulating block and making the same. 2,612,462, Sept. 30.

Zettlemoyer, Albert C., W. C. Walker, and W. L. Stump, Bethlehem, Pa., assignors to Food Machinery and Chemical Corporation, New York, N. Y. Preparation of ketones by dehydrocarboxylation of carboxylic acids. 2,612,524, Sept. 30.

Ziegler, Karl, St. Klida, Victoria, Australia. Toolholder. 2,611,948, Sept. 30.

Ziuken, Louis N., St. Cloud, Minn. Masonry line block. 2,611,963, Sept. 30.

Zivadinovic, Stevan D., Oxford, England. Apparatus for improving the reproduction of sound. 2,612,234, Sept. 30.

Zuhn, Arthur A., Peoria County, Ill. Continuous combustion type rotating combustion products generator and turbine. 2,612,021, Sept. 30.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive block or segment. A. S. Titcomb. Re. 23,558, Sept. 30.
Apparatus for marine seismic prospecting. J. J. Babb and N. J. Smith. Re. 23,552, Sept. 30.
Controller. C. F. Miller. Re. 23,554, Sept. 30.
Corrosion-resistant metallic structure. O. E. Andrus. Re. 23,559, Sept. 30.
Electrically conducting coating on glass and other ceramic bodies. J. M. Mochel. Re. 23,555–6, Sept. 30.
Fishing tool. D. A. Siracusa. Re. 23,557, Sept. 30.
Paint pressure box with heat exchanger. E. A. A. Axelson and C. Å. Löfgren. Re. 23,551, Sept. 30.
Ventilator. G. Herbster. Re. 23,560, Sept. 30.
Zeroizing mechanism. C. Herzstark. Re. 23,553, Sept. 30.

LIST OF DESIGN INVENTIONS

Badge. M. E. Wright. 167,875, Sept. 30.
Base for table lamps. E. Schwarz. 167,865, Sept. 30.
Bell and bottle cap remover, Combined. S. S. Sarna. 167,861, Sept. 30.
Bookrack and floor lamp, Combined. J. James. 167,835, Sept. 30.
Bowl, Sugar. D. E. Folley. 167,829, Sept. 30.
Buckle, Belt. A. Bliss. 167,823, Sept. 30.
Case and wrench set unit, Combined. W. Selikoff and W. B. McBride. 167,868, Sept. 30.
Caster cup or similar article. B. Auer. 167,876, Sept. 30.
Container and candy cane display, Combined. R. E. McCormack, Sr. 167,840, Sept. 30.
Cuff link or similar article. F. D. Napolitani. 167,845, Sept. 30.
Display case, Counter. P. Schladermundt and W. H. Dennerlein. 167,862, Sept. 30.
Display rack or similar article, Hosiery. G. J. Colombo. 167,824, Sept. 30.
Doll. M. A. Kirk. 167,837, Sept. 30.
Fabric or similar article, Textile. H. Odzer. 167,846, Sept. 30.
Fabric, Textile. H. Rose. 167,854–6, Sept. 30.
Flag. R. S. Ryan. 167,859, Sept. 30.
Floor covering. P. C. Waite. 167,872, Sept. 30.
Flower basket and stand therefor, Combined. E. M. Gipson. 167,830, Sept. 30.
Food product, Molded. L. Peters. 167,847–8, Sept. 30.
Game board. R. M. Shoff. 167,869, Sept. 30.
Hanger and cabinet, Combination clothes. B. A. Kandarian. 167,836, Sept. 30.
Hanger, Drapery traverse. J. V. and J. N. Graber. 167,831, Sept. 30.
Hearing aid. L. A. Watson. 167,873, Sept. 30.
Lighting fixture. V. Schreckengost. 167,863, Sept. 30.
Lighting fixture bowl. V. Schreckengost. 167,864, Sept. 30.
Link chain for a bracelet or the like, Expansible. E. Rodriguez. 167,853, Sept. 30.
Link chain for a necklace or the like. A. Philippe. 167,849–51, Sept. 30.
Mattress, Inflatable. W. L. Vega. 167,871, Sept. 30.
Merry-go-round, Portable. E. Salgo and F. M. Drake. 167,860, Sept. 30.
Ornament or the like, Automobile. R. H. Hieger. 167,833, Sept. 30.
Oxygen mask. A. M. Russell. 167,857–8, Sept. 30.
Phonograph record vendor. F. SeBastian. 167,866, Sept. 30.
Radio receiver casing. R. Florac. 167,828, Sept. 30.
Refrigerator. D. E. Dailey. 167,825, Sept. 30.
Rosary medal. D. M. Doherty. 167,827, Sept. 30.
Sewing chest and pin cushion or the like, Combined. H. J. Barrows. 167,821, Sept. 30.
Shoe, Infant's. R. G. Hildebrand. 167,834, Sept. 30.
Slide viewer. M. S. Wolk. 167,874, Sept. 30.
Stocking, Gift. A. E. Mohr. 167,842, Sept. 30.
Stocking, Lady's. W. Mueller. 167,843–4, Sept. 30.
Store front. F. E. Stuhr. 167,870, Sept. 30.
Ten-sided die. D. Reader. 167,852, Sept. 30.
Tie display and shirt collar shaper, Combined bow. L. P. Lerner. 167,839, Sept. 30.
Tool unit, Power. R. E. Doeden. 167,826, Sept. 30.
Tricycle, Child's. D. D. Beale. 167,822, Sept. 30.
Vase or similar article. B. Kogan. 167,838, Sept. 30.
Vehicle, Fire fighting. E. J. Graef. 167,832, Sept. 30.
Vending machine case, Bottled drink. C. G. Meyer. 167,841, Sept. 30.
Ventilator head for gas pipe lines or the like. T. D. Sedberry and A. F. Davis. 167,867, Sept. 30.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF SEPTEMBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive belt attachment for abrasive wheel machines. R. M. Bell. 2,612,007, Sept. 30.
Absorbent for purifying air. P. O. Rockwell and J. C. Goshorn. 2,612,434, Sept. 30.
Accelerator footrest for automotive vehicles. C. H. Schetzer. 2,612,060, Sept. 30.
Accounting machine control means. W. A. Anderson. 2,612,315, Sept. 30.
Acid azo dyes. B. Gaspar and P. D. Dreyfuss. 2,612,496, Sept. 30.
Adjustable bed frame. L. F. Clerc. 2,611,907, Sept. 30.
Adjustable electrode assembly for high-frequency heating systems. H. R. Warren. 2,612,595, Sept. 30.
Adjustable load engager for vehicle lifts. E. B. Thompson. 2,612,344, Sept. 30.
Advertising sign and illuminating device, Combination. N. B. Whitebread. 2,611,981, Sept. 30.
Aileron, flap, and dive brake. R. E. Crandall and J. E. Glenn. 2,612,329, Sept. 30.
Air motor and pump. W. B. Weis. 2,612,143, Sept. 30.
Airplane brake. B. J. Drozinski. 2,612,332, Sept. 30.
Airplane fuel system with pressure accumulator. M. L. Edwards. 2,612,215, Sept. 30.
Air pump. V. E. Clarke. 2,612,312, Sept. 30.
Alarm, Low water. H. A. Bohusiav. 2,612,147, Sept. 30.
Alkali metal amides, Preparing. J. Overhoff and J. T. Hackmann. 2,612,436, Sept. 30.
Alkanoyl-*o*-ethylbenzylureas. R. Duschinsky. 2,612,522, Sept. 30.
Alkoxyalkyl iodobenzoates. S. Archer. 2,612,517, Sept. 30.
Alkyl acylamidoacetoacetates, Preparation of. J. A. King. 2,612,518, Sept. 30.
All-weather window. L. J. Milone. 2,611,934, Sept. 30.
Alpha-amino,4,6,6-trimethyl heptanoic acid. R. N. MacDonald. 2,612,521, Sept. 30.
Aminoalkyl derivatives of thiophene. H. D. Hartough and S. J. Lukasiewicz. 2,612,505, Sept. 30.
Amplifier, Gaseous pulse. G. E. Hagen. 2,612,617, Sept. 30.
Angular modulation. M. H. Mesner. 2,612,634, Sept. 30.
Animal trap. E. Larson. 2,611,989, Sept. 30.
Animal trap. J. U. Lehn. 2,611,991, Sept. 30.
Anode structure for electron discharge devices. P. L. Spencer. 2,612,623, Sept. 30.
Antenna excitation system. R. S. Wehner. 2,612,606, Sept. 30.
Anthraquinone dyes. D. I. Randall and E. E. Renfrew. 2,612,507, Sept. 30.
Apparatus for assembling partitions for packing cells. R. C. Merry. 2,612,085, Sept. 30.
Apparatus for automatically switching from gas fuel to oil fuel in dual fuel internal-combustion engines. G. Steven and R. R. Fruehauf. 2,612,145, Sept. 30.
Apparatus for carrying and adjustably positioning elongated articles. G. E. Wheeler. 2,612,366, Sept. 30.
Apparatus for discriminating the sex of chickens of hens and cocks and the other birds or for inspecting the internal organs of any birds or animals. T. Kizawa. 2,612,157, Sept. 30.
Apparatus for effecting magnetically a separation between magnetizable and nonmagnetizable particles contained in liquids, slurries and the like. R. Symington and L. H. Cleat. 2,612,262, Sept. 30.
Apparatus for forming tubular L's. C. F. Seibert. 2,612,205, Sept. 30.
Apparatus for grinding crankshafts. A. Loader and M. S. Koylowski. 2,612,013, Sept. 30.
Apparatus for handling patients. G. I. Rockwood. 2,611,905, Sept. 30.
Apparatus for heat-treating mineral material. J. V. Slavick. 2,612,263, Sept. 30.
Apparatus for improving the reproduction of sound. S. D. Zivadinovic. 2,612,234, Sept. 30.
Apparatus for measurements by varintion of electrical capacity. P. Buisson. 2,611,904, Sept. 30.
Apparatus for measuring interstitial water content of well cores. F. A. Angona. 2,612,036, Sept. 30.
Apparatus for preventing undesired release of fluid pressure brakes. A. T. Gorman and E. S. Cook. 2,612,412, Sept. 30.
Apparatus for producing high tenacity artificial yarn and cord. H. D. Merion and H. J. McDermott. 2,611,925, Sept. 30.
Apparatus for selective operation of registers in liquid dispensing mechanisms. C. S. Hazard. 2,612,288, Sept. 30.
Apparatus for testing cord fatigue. T. J. Rhodes. 2,612,040, Sept. 30.
Apparatus for the extrusion molding of concrete and like materials. G. J. F. Leitl. 2,611,941, Sept. 30.
Apparatus for the specific gravity classification of bulk substances. W. Vogel. 2,612,269, Sept. 30.
Apparatus for vulcanizing frothed latex rubber. W. C. Grannis. 2,611,926, Sept. 30.
Apparatus for washing discrete units of solid materials. B. C. Skinner. 2,612,178, Sept. 30.
Applying an ornamental and protective crackle coating to a base. N. A. Thacker and D. S. Threlkeld. 2,612,456, Sept. 30.
Aqueous dispersions containing a water-soluble sulfonated polystyrene. M. Baer and R. G. Fordyce. 2,612,485, Sept. 30.
Arc welding rod and producing same. A. A. Bernard. 2,612,583, Sept. 30.
Arrangement for mounting heat transfer conduits. A. G. Janos. 2,612,351, Sept. 30.
Arrangement for producing a spun short-fiber yarn. R. Wildbolz. 2,611,931, Sept. 30.
Article pickup device. R. H. Facio, Sr. 2,612,400, Sept. 30.
Artificial teeth. J. O. Semmelman and J. E. Watson. 2,611,958, Sept. 30.
Automatic baler. M. E. McClellan, L. G. Cheatum and G. B. Hill. 2,612,099, Sept. 30.
Automatic beverage mixer. W. A. Steiner and R. W. Sprung. 2,612,353, Sept. 30.
Automatic flight controller. R. L. Frazier and H. B. Breedlove. 2,612,331, Sept. 30.
Automatic gain control system. W. B. Hemphill. 2,612,568, Sept. 30.
Automatic ladling means. A. S. Kux. 2,611,939, Sept. 30.
Automatic liquid supply regulator for milk driers. H. H. Muckala. 2,612,181, Sept. 30.
Automobile crankcase-oil draining apparatus. F. A. Koester. 2,612,289, Sept. 30.
Automobile rear door latch. J. D. Stutt. 2,612,397, Sept. 30.
Automotive power drive control system and mechanism. G. T. Randol. 2,612,247, Sept. 30.
Automotive truck body flexible closure. J. Dellapent. 2,612,221, Sept. 30.
Auxiliary gas lift for oil wells. H. J. Arnall. 2,612,117, Sept. 30.
Awning, Collapsible. F. E. Nelson. 2,612,219, Sept. 30.
Awning, Ventilated. D. Kramer and O. H. Stapp. 2,611,935, Sept. 30.
Axially movable rotary plug. G. P. Bridgefield. 2,612,341, Sept. 30.
Axially shifting type hydraulically operable tire remover. E. A. Zang. 2,612,214, Sept. 30.
Backrest for grinding machines. M. I. Mathewson. 2,612,014, Sept. 30.
Balanceable network electric measuring system. A. J. Hornfeck. 2,612,628, Sept. 30.
Balloon and its manufacture, Variable volume. W. F. Huch. 2,612,328, Sept. 30.
Basic ether-substituted isoquinolines. G. E. Ullyot. 2,612,503, Sept. 30.
Bearing: *See*—
  Pivot bearing.
Bearing for lathe feed shafts, Displaceable. W. G. Hoelscher. 2,612,070, Sept. 30.
Bearing unit structure. E. C. White. 2,612,417, Sept. 30.
Beater roll. F. Hayes. 2,612,083, Sept. 30.
Bedpan. C. E. Wakeman. 2,611,903, Sept. 30.
Bed tray, Swingable and vertically adjustable. P. G. Sarkus. 2,612,422, Sept. 30.
Bell with attaching means. D. Iny. 2,612,135, Sept. 30.
Billfold wallet, Secret pull-out. W. Lipp. 2,612,201, Sept. 30.
Bit: *See*—
  Diamond set core bit.
Block: *See*—
  Masonry line block. Sacroiliac block.
Boat anchor. V. G. Benedict. 2,612,131, Sept. 30.
Bookbinding adhesive and applying same. R. G. Brown. 2,612,463, Sept. 30.
Bookcase. W. B. Cobbs. 2,612,272, Sept. 30.
Book support attachment. H. R. Faulkner, J. N. Pettus and J. R. Bradshaw. 2,612,427, Sept. 30.
Box: *See*—
  Convertible flush and surface mountable panel board box.
Box dumper. E. A. Verrinder. 2,612,277, Sept. 30.

Box handle and fastening means. R. C. Potts. 2,612,308, Sept. 30.
Brace bracket for scaffolds and the like. J. A. Kirkpatrick. 2,612,414, Sept. 30.
Bracelet. H. Dinstman. 2,612,302, Sept. 30.
Brake: *See*—
Airplane brake.
Truck auxiliary brake.
Brassière. J. P. Laird. 2,611,898, Sept. 30.
Bridge type deflection circuit. D. F. Winter. 2,612,620, Sept. 30.
Broom cap. S. C. Tuttle. 2,612,336, Sept. 30.
Brush-making machine. E. Aberle. 2,612,409, Sept. 30.
Bubble cap and holddown device. C. L. Haynes and H. W. Breer. 2,612,360, Sept. 30.
Bucket or shovel construction for loaders. H. M. Stueland. 2,612,280, Sept. 30.
Bucking current circuit for half-tone fidelity correction. F. A. Hester and J. W. Smith. 2,612,429, Sept. 30.
Buckle link applying machine for bale straps. L. R. Smida. 2,612,203, Sept. 30.
Bumper seat for automobiles. J. D. Branson. 2,612,207, Sept. 30.
Burner: *See*—
Liquid fuel burner.
Cabinet, hinge, Self-closing. P. K. Borman and T. H. Swisher. 2,611,922, Sept. 30.
Camera and money container. E. H. Heyer and E. Elston. 2,612,092, Sept. 30.
Can punch. T. Kaskouras. 2,611,950, Sept. 30.
Can straightener. J. L. and E. A. Rickhoff. 2,612,204, Sept. 30.
Can tear strip guide and measuring cup. R. M. Snook. 2,612,287, Sept. 30.
Can transfer mechanism. K. A. Leuschner. 2,612,255, Sept. 30.
Canopy, Releasable. T. C. Wood. 2,612,333, Sept. 30.
Cap: *See*—
Broom cap.
Novelty cap.
Cap discharge device. R. M. Mikolay. 2,611,999, Sept. 30.
Capmaking machine. W. J. Keith. 2,612,084, Sept. 30.
Car: *See*—
Mine car.
Railway sleeping car.
Rail car.
Carboxylic acids, Preparation of. T. F. Doumani and C. S. Coe. 2,612,520, Sept. 30.
Card stenciling machine with address printing means. A. D'Amato. 2,612,103, Sept. 30.
Card system. N. I. Stark. 2,612,168, Sept. 30.
Card table with individual trays. F. J. Hochalter. 2,612,424, Sept. 30.
Carpet fastener and binder, Combined. T. Jaasund. 2,611,918, Sept. 30.
Carpet sweeper with disposable dust receptacle. A. P. Buquor. 2,611,913, Sept. 30.
Carrier: *See*—
Necktie carrier.
Carton. W. P. Frankenstein. 2,612,306, Sept. 30.
Casement window for air conditioners. H. J. Bolin. 2,612,098, Sept. 30.
Catalyst reaction vessel. A. F. Kaulakis and H. G. Codet. 2,612,437, Sept. 30.
Catchup dispenser. J. G. Bain. 2,612,297, Sept. 30.
Cathode for ionization detection devices. E. B. Fehr and W. T. Posey. 2,612,615, Sept. 30.
Cathode-ray tube. C. S. Szegho and M. E. Amdursky. 2,612,611, Sept. 30.
Cathode-ray tube. C. S. Szegho, M. E. Amdursky and W. O. Reed. 2,612,612, Sept. 30.
Cathode-ray tube for color television systems. M. E. Amdursky and T. S. Noskowicz. 2,612,614, Sept. 30.
Cell and support. C. A. Dyer. 2,612,539, Sept. 30.
Cellular carton erecting machine. H. R. Houtman. 2,612,086, Sept. 30.
Center door bulkhead bracing. E. M. Peterson. 2,612,122, Sept. 30.
Centering perforator punch with interchangeable punches. G. J. and E. C. Sterba. 2,612,222, Sept. 30.
Centrifuge. L. L. Huelsdonk. 2,612,314, Sept. 30.
Checking mechanism for doors. E. W. Carlson. 2,611,919, Sept. 30.
Chemical heating pad. A. Mendez. 2,612,155, Sept. 30.
Chondroitin polysulfuric acid esters, Production of. R. Pulver. 2,612,499, Sept. 30.
Chuck. G. A. Highberg. 2,612,378, Sept. 30.
Circuit: *See*—
Bridge type deflection circuit.
Combined line finder final selector circuit.
Coordination control circuit.
Electronic time delay circuit.
Noise suppression circuit.
Pulse delay circuit.
Voltage level selector circuit.
Circuit controlling device. A. B. Rypinski. 2,612,573, Sept. 30.
Circuit restorer. B. W. Wyman. 2,612,574, Sept. 30.
Closure and seal therefor. J. W. Stufft. 2,612,286, Sept. 30.
Closure construction for metallic containers. J. R. Snyder. 2,612,284, Sept. 30.
Closure flap folding and envelope stacking mechanism for envelope machines. V. E. Heywood. 2,612,088, Sept. 30.
Closure means for super freezer doors. J. V. Jamison, Jr. 2,612,372, Sept. 30.
Clutch: *See*—
V groove pulley centrifugal clutch.
Clutch-brake mechanism. K. M. Feiertag. 2,612,248, Sept. 30.
Coated composite refractory body. C. G. Goetzel. 2,612,442, Sept. 30.
Coin purse and the like. D. H. June. 2,612,200, Sept. 30.
Coke and like screening machine. F. J. and E. West. 2,612,264, Sept. 30.
Collar, Cat. W. J. Collins. 2,612,139, Sept. 30.
Comb, Compartment. W. J. Martino. 2,612,175, Sept. 30.
Combined arc welding electrode holder and high-frequency generator. W. A. Appleton. 2,612,582, Sept. 30.
Combined line finder final selector circuit. R. M. M. Oberman. 2,612,564, Sept. 30.
Combined tension-compression testing apparatus. W. J. Goodfriend. 2,612,041, Sept. 30.
Compositions derived from beeswax. W. C. Griffin. 2,612,509, Sept. 30.
Compressor-motor assembly. L. K. Warrick and F. E. La Flame. 2,612,311, Sept. 30.
Concave bottom hull construction. J. H. Wendt. 2,612,130, Sept. 30.
Condensate return system. J. G. Williams. 2,612,112, Sept. 30.
Condensation chloromethyl benzoates. R. A. Heimach and W. S. Emerson. 2,612,516, Sept. 30.
Condiment dispenser. H. M. Von Duyke. 2,612,292, Sept. 30.
Conidendrol, Making. W. M. Hearon. 2,612,508, Sept. 30.
Constant speed drive for automobile generators and the like. T. W. Horn. 2,612,240, Sept. 30.
Construction of Venetian blinds. W. Turkowski. 2,612,220, Sept. 30.
Container. A. P. Klasing and B. M. Williams. 2,612,305, Sept. 30.
Container closure. F. H. Waggoner. 2,612,307, Sept. 30.
Container closure member having a dispensing valve therein. D. Michel. 2,612,293, Sept. 30.
Container for hypodermic preparations. W. Y. Norman. 2,612,163, Sept. 30.
Continuous combustion type rotating combustion products generator and turbine. A. A. Zuhn. 2,612,021, Sept. 30.
Continuous flow multiple tank fuel system. D. Samiran. 2,612,216, Sept. 30.
Continuous vacuum filtration. W. Kiersted, Jr. and H. H. Gross. 2,612,466, Sept. 30.
Control circuits for cathode-ray tubes. J. E. Shepherd and C. H. Gulles. 2,612,621, Sept. 30.
Control device for locking tractor brakes. K. F. Allen and V. W. Buker. 2,612,059, Sept. 30.
Control station for operating washers with a single bath. B. A. Buss and H. W. Miller. 2,612,035, Sept. 30.
Control system for electric steam generators. H. C. Mittendorf and W. L. Paulison, Jr. 2,612,593, Sept. 30.
Control system for electric steam generators. W. L. Paulison, Jr. and H. C. Mittendorf. 2,612,592, Sept. 30.
Controlling the crankcase pressure in internal-combustion engines. Method and apparatus for. F. Alward. 2,612,150, Sept. 30.
Convertible flush and surface mountable panel board box. T. M. Cole. 2,612,283, Sept. 30.
Conveyer mechanism. S. T. Carter. 2,612,254, Sept. 30.
Cooler: *See*—
Evaporative water cooler.
Cooling of gas turbine engine flame tubes. D. E. Morrison. 2,612,023, Sept. 30.
Cooling of sprayed products. J. A. Monick. 2,612,266, Sept. 30.
Coordination control circuit. M. E. Bivens. 2,612,579, Sept. 30.
Corn husking machine. E. R. Dudley, Jr. 2,612,170, Sept. 30.
Cosmetic applicator, Fountain-type. L. J. Prokop and R. C. Smith. 2,611,915, Sept. 30.
Coupling: *See*—
Valved pipe coupling.
Cover: *See*—
Instrument cover.
Cross-linked silanes. D. B. Hatcher and R. H. Bunnell. 2,612,510, Sept. 30.
Crossover filter network. P. W. Klipsch. 2,612,558, Sept. 30.
Cup, Dripproof. F. M. Cockriel. 2,612,031, Sept. 30.
Current interrupter. E. F. W. Alexanderson, A. H. Mittag and R. W. Kuenning. 2,612,629, Sept. 30.
Curtain stretcher construction. K. J. Unwin. 2,611,993, Sept. 30.
Cutter: *See*—
Unitary cooky cutter.
Cutter chain structure. R. F. Prox, Jr., and B. F. Woods. 2,612,056, Sept. 30.
Cutterhead for hair clippers. E. M. Brown and E. H. Forss. 2,611,955, Sept. 30.
Cutting brittle tubing. O. Denlinger. 2,612,001, Sept. 30.
Cylinder hone. H. P. Phillips. 2,612,010, Sept. 30.
Decoration stamping machine. G. E. Ryckman. 2,612,106, Sept. 30.

Defrosting system, Refrigerator. W. L. Hansen and H. G. Manson. 2,612,026, Sept. 30.
Dental articulator. I. G. Neer. 2,611,961, Sept. 30.
Dental drill. G. E. Björklund. 2,611,962, Sept. 30.
Dental floss. J. Footer. 2,612,177, Sept. 30.
Denture. M. I. Coleman. 2,611,956, Sept. 30.
Desk. W. J. Bargen. 2,612,421, Sept. 30.
Device for applying pellets to an upright adhesive surface. R. W. Wilson. 2,612,374, Sept. 30.
Device for mixing fluids. W. A. Burch. 2,612,403, Sept. 30.
Device for obtaining samples from well bores. N. A. Nelson. 2,612,346, Sept. 30.
Device for operating control surfaces, especially for aircraft. G. Lehmann. 2,612,330, Sept. 30.
Device for preshaping grinding disks. E. A. Angerby, S. G. Axsäter, and S. G. Blom. 2,612,152, Sept. 30.
Device for varying curvature of boat keels. L. P. Burch. 2,612,129, Sept. 30.
Device permitting the introduction of advertising matter in a piece of transparent soap. A. Auziére. 2,611,942, Sept. 30.
Device to restore forcibly interferingly operated type carriers. W. F. Helmond. 2,612,253, Sept. 30.
Diamond set core bit. L. Catallo. 2,612,348, Sept. 30.
Diaper. D. L. Miller. 2,612,164, Sept. 30.
Diesel fuel composition. J. G. McNab. 2,612,439, Sept. 30.
Diesters of aliphatic oxophosphonic acids, Preparation of. E. W. Gluesenkamp and T. M. Patrick, Jr. 2,612,513, Sept. 30.
Digester for manufacture of fertilizer. W. D. Taylor, E. W. Voegtlin, and C. E. Schlosser. 2,611,975, Sept. 30.
Discharge apparatus for coal charging hoppers. C. V. McCabe. 2,612,299, Sept. 30.
Discharge apparatus for coal hoppers. R. D. Wearne. 2,612,298, Sept. 30.
Discharge chute assembly for concrete mixers or the like. L. J. Sarosdy. 2,612,250, Sept. 30.
Dispenser: *See*—
Catchup dispenser.
Condiment dispenser.
Tape dispenser.
Dispenser and receptacle for cleansing dentures and other articles, Combined. H. Cohn. 2,612,291, Sept. 30.
Dispensing apparatus for carbonated beverages, Drink. H. G. Nissen. 2,612,304, Sept. 30.
Doll, Jointed. H. Senior and G. Tomlinson. 2,611,998, Sept. 30.
Door frame mounting. C. Olssan. 2,611,932, Sept. 30.
Door operator, Overhead garage. H. H. Hall. 2,612,371, Sept. 30.
Double-decked stock truck cooling and ventilating system. H. L. McGan. 2,612,027, Sept. 30.
Draft control. O. E. Wadenstein. 2,612,319, Sept. 30.
Drawing of synthetic funicular structures, Method and apparatus for the. H. F. Hume. 2,611,923, Sept. 30.
Drier. A. L. Reiter and J. J. Haverstock. 2,611,976, Sept. 30.
Drill: *See*—
Dental drill.
Driving unit for motor vehicles. P. C. Vincent. 2,612,148, Sept. 30.
Dump bailer. W. C. Gipson. 2,612,223, Sept. 30.
Duplicating roll film cleaning device. E. F. Skinner. 2,612,105, Sept. 30.
Dust collector. W. O. Vedder. 2,612,236, Sept. 30.
Elastic rubber tires, Manufacture of. K. S. Hallgren. 2,612,461, Sept. 30.
Electric cable reel. S. C. Moon. 2,612,569, Sept. 30.
Electric circuit breaker. E. Lange. 2,612,576, Sept. 30.
Electric discharge device. H. C. Steiner. 2,612,613, Sept. 30.
Electric heater. D. L. McFarland. 2,612,591, Sept. 30.
Electrical apparatus. D. F. Alexander. 2,612,543, Sept. 30.
Electrical conversion network. F. D. Greenleaf. 2,612,630, Sept. 30.
Electrical protective device. G. F. Lincks. 2,612,542, Sept. 30.
Electrically controlled stop-motion system. F. A. Hayes. 2,612,127, Sept. 30.
Electrically driven propeller pitch change system. A. G. Forsyth. 2,612,228, Sept. 30.
Electrically heated drying oven for yarn impregnating machines. W. Jones and J. J. Heslin. 2,612,589, Sept. 30.
Electrically heated paint and paper softening tool. P. P. and A. L. Berarducci. 2,612,586, Sept. 30.
Electromagnetic clamping and division apparatus. K. Hrček. 2,611,969, Sept. 30.
Electromagnetic pump. K. E. Wakefield. 2,612,109, Sept. 30.
Electronic discharge tube control. G. A. Bonadio. 2,612,618, Sept. 30.
Electronic telegraph hub type repeater. W. T. Rea. 2,612,560, Sept. 30.
Electronic time delay circuit. C. W. Clapp. 2,612,604, Sept. 30.
Elevator system. A. F. Angelicola. 2,612,238, Sept. 30.
Emulsifier compositons. R. G. Mitchell, H. C. Tait, W. C. Webber, R. G. Aickin, P. A. Winsor, and A. V. Billinghame. 2,612,477, Sept. 30.
Enameling metalware. H. M. Davis. 2,612,457, Sept. 30.
End lock for rings of mechanical bindings. C. D. Trussell. 2,612,166, Sept. 30.
Engine exhaust operated fluent material distributor. C. W. Loy and M. H. Mullis. 2,611,992, Sept. 30.
Engine power control apparatus. S. Crum. 2,612,226, Sept. 30.
Engine pressure and speed control device. H. T. Sparrow. 2,612,225, Sept. 30.
Engine with rotary constant volume combustion chamber, Internal-combustion. J. F. Keys. 2,612,022, Sept. 30.
Escapement mechanism. H. J. Graham and P. F. Powder. 2,611,911, Sept. 30.
Esters of α,β-dichloropropionic acid, Preparation of. W. O. Ney, Jr. 2,612,519, Sept. 30.
Esters of relatively strong organic and inorganic acids with aliphatic compounds having more than one carbon atom, Production of. E. P. Plueddemann. 2,612,514, Sept. 30.
Evaporative water cooler. W. M. Simpson. 2,612,359, Sept. 30.
Expansion arbor. H. Wollner. 2,612,376, Sept. 30.
Expansion compensated countercurrent heat exchanger. W. L. Stadler. 2,612,350, Sept. 30.
Extensometer. J. Rebman. 2,611,966, Sept. 30.
Extraction of cycloheximide. B. E. Leach. 2,612,502, Sept. 30.
Extractive distillation of ethanol contaminated by n-propanol. C. E. Morrell, C. S. Carlson, and N. C. Robertson. 2,612,467, Sept. 30.
Extractive distillation with salt solutions. C. E. Morrell and E. R. Gilliland. 2,612,468, Sept. 30.
Extractor: *See*—
Pneumatic juice extractor.
Eyeleting machine. S. L. Dookin. 2,612,282, Sept. 30.
Fastening device. O. J. Poupitch. 2,612,245, Sept. 30.
Feed screw releasing means. L. R. Gray and H. P. Smith, Jr. 2,612,057, Sept. 30.
Feeding mechanism for nailing machines. V. Chmelař. 2,611,896, Sept. 30.
Field mapping machine. K. O. Straney. 2,612,627, Sept. 30.
Fifth wheel locking mechanism. M. B. Johnson. 2,612,381, Sept. 30.
Filler opening for containers. E. H. Benson. 2,612,285, Sept. 30.
Film projector for television. R. V. Anderson. 2,612,554, Sept. 30.
Film pulldown method. E. W. Kellogg and W. R. Isom. 2,612,075, Sept. 30.
Filter: *See*—
Two-stage filter.
Fire extinguisher. C. L. Zabriskie. 2,612,224, Sept. 30.
Fish lure. A. R. Hagen. 2,611,987, Sept. 30.
Fish stringer. L. M. Butler. 2,612,303, Sept. 30.
Fishing fly. T. F. Lloyd, Jr. 2,611,985, Sept. 30.
Fishing lure. W. E. Gautsche, Jr. 2,611,984, Sept. 30.
Fishing lure. A. W. Silva. 2,611,986, Sept. 30.
Fishing reel. R. A. Johnson. 2,612,325, Sept. 30.
Fishing rod anchor. J. Delamere. 2,612,334, Sept. 30.
Flashlight with H-shaped frame forming opposed holders for dry cells and lamp head. F. Berman. 2,612,598, Sept. 30.
Flatiron, Electric. J. A. Guerra. 2,612,587, Sept. 30.
Fluid applicator, Manually operated. C. E. Vanasse. 2,611,914, Sept. 30.
Fluid driven actuator for tools. L. C. Miller. 2,612,140, Sept. 30.
Fluid pressure operated flow control valve. W. B. Bolger. 2,612,186, Sept. 30.
Fluidized solids contacting apparatus. E. V. Murphree. 2,612,438, Sept. 30.
Flush valve operating arrangement. J. J. Filliung. 2,612,179, Sept. 30.
Folding and filling machine. S. F. Anderson. 2,612,016, Sept. 30.
Force measuring device. P. C. Clarke. 2,612,042, Sept. 30.
Formaldehyde-urea adhesives and coating compounds. W. C. Dearing. 2,612,483, Sept. 30.
Forming floor and ceiling structures. A. W. Bailey. 2,611,944, Sept. 30.
Fountain, Animal. R. C. Lindemann. 2,612,138, Sept. 30.
Frame: *See*—
Adjustable bed frame.
Fruit pitter. V. C. Giordano. 2,612,197, Sept. 30.
Furnace roof structure. L. S. Longenecker. 2,612,124, Sept. 30.
Gas fueled lighter mechanism. A. L. Flamm. 2,612,033, Sept. 30.
Gas lift. G. A. Humason. 2,612,111, Sept. 30.
Gas turbine with fluid-driven auxiliary drive. A. A. Griffith. 2,612,020, Sept. 30.
Gaseous discharge tube. E. W. Hullegård. 2,612,625, Sept. 30.
Gauge: *See*—
Phosphorizing apparatus flow gauge.
Gauge and grooving device for dowel pins and the like, Combined. K. A. Springer. 2,612,193, Sept. 30.
Gauge with pivotal and laterally movable gauge member. P. W. Johnson. 2,611,965, Sept. 30.
Gear finishing machine. K. J. Davis. 2,612,080, Sept. 30.
Glass beveling machine. H. H. Heffley. 2,612,006, Sept. 30.

Glassware spacing device. H. A. Youkers. 2,612,256, Sept. 30.
Glazing and polishing machine. W. C. Burt. 2,612,005, Sept. 30.
Glove or mitten construction. M. Neider. 2,611,901, Sept. 30.
Golf tee. M. C. Pierce. 2,612,373, Sept. 30.
Graduated level. A. P. Gubrud. 2,611,972, Sept. 30.
Grease pump and reservoir, Combined. T. A. Campbell and M. Harris. 2,612,296, Sept. 30.
Grille, Adjustable air distribution. W. W. Kennedy. 2,612,095–6, Sept. 30.
Grinder, Drill point. J. Becker. 2,612,012, Sept. 30.
Guide for indicating the fecundity rhythm in women. G. Van Houtte and A. Demeuse. 2,612,317, Sept. 30.
Guide plate for latches. F. Mastrangelo. 2,612,399, Sept. 30.
Gyrocompass. L. F. Carter. 2,611,973, Sept. 30.
Hairbrush with closure therefor. S. E. Peters. 2,611,916, Sept. 30.
Half-duplex telegraph repeater. W. T. Rea. 2,612,561, Sept. 30.
Handbag, Snap front. A. Schocket. 2,612,199, Sept. 30.
Handle and clip for containers, Combination. R. C. Potts. 2,612,309, Sept. 30.
Handle for cartons or the like. G. G. Simmonds. 2,612,401, Sept. 30.
Handling continuously spun artificial threads or the like, Method and apparatus for. K. M. McLellan and R. W. Stanley. 2,611,924, Sept. 30.
Hanger: *See*—
Roadway load hanger. Skirt hanger.
Hardboard and the like containing furfuryl alcohol resins, Making. O. Spence. 2,612,445, Sept. 30.
Headrest for medical practice chairs. N. E. Lauterbach. 2,612,212, Sept. 30.
Heat exchanger baffle structure for air-heating furnaces. R. F. Gibler. 2,612,153, Sept. 30.
Heat lamp safety fixture for brooders. M. V. Schubert, Jr., B. E. Langohr, J. B. Manago, Jr., and L. J. Badskey. 2,612,594, Sept. 30.
Heater: *See*—
Electric heater.
Heating pad for the feet and lower limbs, Radiant. B. P. McCann. 2,612,585, Sept. 30.
Helmet with face guarding means. J. R. Adams. 2,611,897, Sept. 30.
Hexaalkoxydisilanes, Preparation of. B. A. Orkin. 2,612,511, Sept. 30.
Hexose ureides and thioureides, Manufacture of. H. W. Meijer. 2,612,497, Sept. 30.
High tenacity artificial yarn and cord, Producing. H. D. Merion and H. J. McDermott. 2,611,928, Sept. 30.
Higher molecular weight fluorine-containing compounds. C. F. Feasley. 2,612,529, Sept. 30.
Hinge with mutually displaceable members for adjustment thereof. G. A. Weidelstam. 2,611,921, Sept. 30.
Holder: *See*—
X-ray film holder.
Hollow threaded rivet. R. F. Taylor. 2,612,073, Sept. 30.
Homogeneous polymerization of vinylidene compounds with an α,α-dialkylarylmethyl hydroperoxide and a heavy metal compound as catalyst. C. W. Gould. 2,612,490, Sept. 30.
Homogenizing device. A. G. Borck. 2,612,356, Sept. 30.
Hook: *See*—
Releasable fishing hook.
Hose reel. F. G. Schweisthal. 2,612,326, Sept. 30.
Hydraulic lift for cutter bars. J. H. Lindau, R. P. Stewart, and J. D. Black. 2,612,018, Sept. 30.
Hydraulically operated headstock center. R. Kurzweil. 2,612,071, Sept. 30.
Illuminated electric outlet fixture. E. W. Sherrard. 2,612,597, Sept. 30.
Image-receiving photographic element combined with a processing container. E. H. Land. 2,612,449, Sept. 30.
Impeller blade support fixture. P. T. Angell and C. J. Leska. 2,612,082, Sept. 30.
Improved dowel stock and dowel pins, Making. P. A. Rahaim. 2,612,195, Sept. 30.
Indicating comparator having pivoted jaws. S. G. Johnson. 2,611,970, Sept. 30.
Indicator: *See*—
Remote water level indicator.
Individual magnet adjustable pickup. H. De Armond. 2,612,072, Sept. 30.
Individually swingable driven axle. C. Bretschneider. 2,612,231, Sept. 30.
Induction voltage regulator. H. R. West and M. E. Sayles. 2,612,635, Sept. 30.
Inert gas welding torch. J. P. Morrissey. 2,612,584, Sept. 30.
Infant's toilet seat. H. B. Light. 2,612,210, Sept. 30.
Ink, Printing. M. R. May. 2,612,480, Sept. 30.
Installation for collecting and handling fibrous waste material. W. B. McGuire. 2,612,278, Sept. 30.
Instrument, Adjustable haircutting. M. Tully. 2,611,951, Sept. 30.
Instrument cover. W. R. Triplett. 2,612,132, Sept. 30.
Instrument, Gauging. B. D. Brown, Jr. 2,611,968, Sept. 30.
Insulating electrical apparatus. L. R. Hill and J. A. Campbell. 2,611,930, Sept. 30.
Insulator secured under tension to an insulator rack. F. G. Ridgers and C. W. Cassels. 2,612,540, Sept. 30.
Interchangeable tripod foot tip. A. J. Saltzman. 2,612,335, Sept. 30.
Interferometer. A. H. Mirau. 2,612,074, Sept. 30.
Intermediate cooler for multistage rotary compressors. J. Eggmann. 2,612,310, Sept. 30.
Internal grinding machine. M. L. Kuniholm and J. Klar. 2,612,008, Sept. 30.
Intravenous solution dispensing apparatus. C. H. Barr. 2,612,160, Sept. 30.
Invalid chair having footrest braking means. L. R. Alldredge and E. O. Schonstedt. 2,612,209, Sept. 30.
Irreversible throttle control. P. M. Waite. 2,612,058, Sept. 30.
Kerf-cutting machine. H. W. Driehaus. 2,612,362, Sept. 30.
Ketones by dehydrocarboxylation of carboxylic acids, Preparation of. A. C. Zettlemoyer, W. C. Walker, and W. L. Stump. 2,612,524, Sept. 30.
Knitting machine for wrap striping. F. E. Deans and C. H. Wainwright. 2,612,032, Sept. 30.
Laminated insulating block and making the same. J. H. Zettel. 2,612,462, Sept. 30.
Lamp switch. L. M. Patrick. 2,612,570, Sept. 30.
Lamp with adjustable shutter, Portable bed. T. C. Matson, R. N. Riewerts, and D. E. Mortensen. 2,612,599, Sept. 30.
Lap robe, Convertible. L. T. Nelson. 2,611,899, Sept. 30.
Latch: *See*—
Automobile rear door latch.
Letter balance. F. D. Nielsen. 2,612,365, Sept. 30.
Light: *See*—
Portable safety and trouble light.
Light polarizers, Making. J. Mahler. 2,612,079, Sept. 30.
Light transmitting structure which may be made transparent or translucent at will. S. De Lisio. 2,612,078, Sept. 30.
Lighter, Cigarette. W. F. Schilling. 2,612,588, Sept. 30.
Lighter structure for gas burners. E. H. Mueller. 2,612,218, Sept. 30.
Liquid cooled muffler. K. W. Schreeck. 2,612,235, Sept. 30.
Liquid fuel burner. N. H. Sutterfield. 2,612,217, Sept. 30.
Lock for upward acting doors. A. Venditty. 2,612,396, Sept. 30.
Loose-leaf binder. E. F. Buenger and F. D. Wedge. 2,612,167, Sept. 30.
Loose-leaf binder, Slidably actuated. S. Segal. 2,612,169, Sept. 30.
Lubricating grease compositions. A. J. Morway and P. V. Smith, Jr. 2,612,472–3, Sept. 30.
Lubricating oil additive. J. H. Bartlett. 2,612,475, Sept. 30.
Lubricating system, Centralized. H. R. Tear. 2,612,237, Sept. 30.
Luminaire with easily removable reflector, Open type. E. H. Yonkers. 2,612,600, Sept. 30.
Luminescent screen for image reproducing tubes. S. A. Standing. 2,612,476, Sept. 30.
Machine for boring connecting rods. E. A. Arp. 2,612,064, Sept. 30.
Machine for counting and stacking articles. R. E. J. Nordquist. 2,612,089, Sept. 30.
Machine for erecting cartons. F. M. Willbrandt. 2,612,087, Sept. 30.
Machine for forming teeth for peg tooth harrows. D. A. Wangelin. 2,612,063, Sept. 30.
Machine for mitering and cutting finger grips in glass. J. B. Tavano. 2,612,009, Sept. 30.
Machine for planing and jointing. J. C. Ryan. 2,612,192, Sept. 30.
Machine for ramming foundry cores by means of compressed air. F. Hansberg. 2,611,938, Sept. 30.
Machine for slicing stationarily positioned bakery products. K. Schlegel. 2,612,198, Sept. 30.
Machine for use in the manufacture of insoles. J. J. Maciejowski and F. T. MacKenzie. 2,611,912, Sept. 30.
Machine tool. E. Gygax. 2,612,081, Sept. 30.
Magnet with adjustable sleeve pickup device, Individual. H. De Armond. 2,612,541, Sept. 30.
Magnetic control mechanism. B. L. Binford. 2,612,572, Sept. 30.
Magnetic separator. R. F. Merwin. 2,612,268, Sept. 30.
Magnetoelectric shocking device. J. Trotta. 2,612,624, Sept. 30.
Main drive unit for tandem rotor helicopters. C. C. Miller, Jr. 2,612,062, Sept. 30.
Manufacturing a maximum registering thermometer. R. D. Thompson and L. C. Liberatore. 2,612,002, Sept. 30.
Manufacturing tapered fishing leaders. W. S. Peterson, Sr. 2,612,003, Sept. 30.
Masonry line block. L. N. Zinken. 2,611,963, Sept. 30.
Mass spectrometer. W. E. Stephens. 2,612,607, Sept. 30.
Material-selecting reel. D. M. Yorburg. 2,612,324, Sept. 30.
Mattress coil spring unit. S. Bell. 2,611,910, Sept. 30.
Measuring and dispensing top with dual compartments filled and emptied alternately. A. L. Ellis. 2,612,295, Sept. 30.
Measuring apparatus, Liquid. F. J. Mathews. 2,612,300, Sept. 30.

Measuring the moisture content of a running web. N. N. Strätvelt and A. J. Schie. 2,611,974, Sept. 30.
Mechanical movement. C. B. Gray. 2,612,052, Sept. 30.
Metal carbonyl powders of small size, Production of. G. O. Aitmann. 2,612,440, Sept. 30.
Metals from their ores, Production of. R. Rummel. 2,612,444, Sept. 30.
Meteorological calculating mechanism. F. B. Caldwell. 2,612,316, Sept. 30.
Methallyl chloride, Production of. A. J. Cherniavsky and D. Brown. 2,612,530, Sept. 30.
Method and composition for inhibiting foam in aqueous systems. L. O. Gunderson. 2,612,478, Sept. 30.
Micrometer. M. F. Bennett. 2,611,967, Sept. 30.
Micrometer dial for machine and the like tools. P. M. Henkes and E. L. Miottel. 2,612,134, Sept. 30.
Microwave heating. F. A. Gross. 2,612,596, Sept. 30.
Milking machine teat cup assembly. J. L. Davis. 2,612,136, Sept. 30.
Mill: *See*—
Screening mill. Sugar cane mill.
Mine car. C. A. Boyd. 2,612,119, Sept. 30.
Mining apparatus. A. L. Lee. 2,612,363, Sept. 30.
Mining machine. L. D. Hagenbook. 2,612,361, Sept. 30.
Minnow dipper. J. F. Sears. 2,611,982, Sept. 30.
Mixed polycarboxylic acid esters of alkylidene glycols and polymers thereof. T. W. Evans, D. E. Adelson, and L. N. Whitehill. 2,612,491, Sept. 30.
Mixer: *See*—
Automatic beverage mixer. Rotary mixer.
Mixing equipment. R. D. Boutros. 2,612,391, Sept. 30.
Modification of annular stripper. L. A. Nicolai and B. V. Molstedt. 2,612,433, Sept. 30.
Modifying butter. C. H. Bettman. 2,612,454, Sept. 30.
Money counting machine. T. E. Hayes. 2,612,318, Sept. 30.
Motorcar with parking device. H. Jezier. 2,612,230, Sept. 30.
Mounting: *See*—
Door frame mounting.
Mounting for rotating bodies. A. S. Krotz. 2,612,418, Sept. 30.
Mounting structure for grinding wheels. F. G. Krafft. 2,612,015, Sept. 30.
Multiplex converter. C. C. Cutler. 2,612,633, Sept. 30.
Music printing or typewriting machine. J. M. Parker. 2,612,251, Sept. 30.
N(p-aminophenyl)hexamethylenimines. M. S. Raasch. 2,612,500, Sept. 30.
Navigation aid system. C. C. Pine. 2,612,638, Sept. 30.
Necktie. H. Hertz. 2,611,900, Sept. 30.
Necktie carrier. A. A. Baur. 2,612,257, Sept. 30.
Necktie press and holder. A. A. Baur. 2,612,258, Sept. 30.
Needle for bag stringing machines, Conditioning. B. C. Golden. 2,612,125, Sept. 30.
Noise suppression circuit. R. B. Dome. 2,612,602, Sept. 30.
Nonconjugated higher diolefin homopolymers. W. J. Sparks and R. M. Thomas. 2,612,493, Sept. 30.
Nose piece for bifocal eye glasses, Auxiliary. W. Dietz. 2,612,076, Sept. 30.
Novelty cap. M. F. Rockmore. 2,611,902, Sept. 30.
Nozzle, Atomizing. F. Kurata. 2,612,406, Sept. 30.
Nozzle, Atomizing. F. Kurata. 2,612,408, Sept. 30.
Nozzle, Hydraulic giant. J. A. Miscovich. 2,612,402, Sept. 30.
Nozzle, Spray. J. U. Bete. 2,612,407, Sept. 30.
Nozzle, Spraying. E. Kirschbaum. 2,612,405, Sept. 30.
Oil-base drilling fluids. P. W. Fischer. 2,612,471, Sept. 30.
Oil saver. J. J. Dempsey. 2,612,392, Sept. 30.
Opener, Power-operated bottle. D. H. Packer and P. R. George. 2,612,065, Sept. 30.
Optical system with automatic photometering and diaphragm adjusting means. K. J. Weiss. 2,612,091, Sept. 30.
Optical system with semiautomatic diaphragm adjustment to preselected position. K. H. Schütz. 2,612,093, Sept. 30.
Orbital lathe tool feeding mechanism. W. F. Groene. 2,612,069, Sept. 30.
Pacifier, Medicated. J. J. Szuderski. 2,612,165, Sept. 30.
Packing cup expander. N. S. Reynolds. 2,612,420, Sept. 30.
Pad: *See*—
Chemical heating pad. Sanding and abrading pad.
Paging system. J. E. Kreiner. 2,612,551, Sept. 30.
Paint spraying device. J. O. Andersson. 2,612,404, Sept. 30.
Panel embossing machine. J. L. and L. G. Buckley. 2,612,102, Sept. 30.
Panel fastening for doors and window sashes. A. J. Kiefer. 2,612,244, Sept. 30.
Paper mill felt. E. H. Hall. 2,612,190, Sept. 30.
Partition construction. J. B. Campbell. 2,612,243, Sept. 30.
Pattern chain cylinder for dobby looms. W. A. Blanchard. 2,612,189, Sept. 30.
Pentaerythritol manufacture. C. W. Gould. 2,612,526, Sept. 30.
Pentaerythritol, Production of. M. O. Robeson and S. A. Blundell, Jr. 2,612,525, Sept. 30.
Phenol aldehyde adhesive containing a chromium compound. C. N. Cone. 2,612,481, Sept. 30.
Phenyl trifluoroethylene. S. G. Cohen. 2,612,528, Sept. 30.
Phosphorizing apparatus flow gauge. J. R. Wyatt. 2,612,045, Sept. 30.
Photographic elements containing azo dyes and process using them. B. Gaspar and P. D. Dreyfuss. 2,612,448, Sept. 30.
Photographic elements having a light-sensitive silver halide layer and a stripping layer composed of a polyvinyl pyridine quaternary salt and using such elements. J. Q. Umberger. 2,612,446, Sept. 30.
Photographic processing. P. Raibourn. 2,612,447, Sept. 30.
Photographic product. W. J. McCune, Jr. 2,612,452, Sept. 30.
Photographic product, including a container and means for rupturing said container. E. H. Land. 2,612,451, Sept. 30.
Photometric analyzer. E. C. Miller. 2,612,608, Sept. 30.
Pilot ignition. R. H. Sheppard. 2,612,146, Sept. 30.
Pipe: *See*—
Smoking pipe.
Piston sealing assembly. N. S. Reynolds. 2,612,419, Sept. 30.
Pivot bearing. L. S. Williams. 2,612,415, Sept. 30.
Pivoted blade mounted on a thimble. L. P. Bruening. 2,611,953, Sept. 30.
Plastic compositions comprising biphenylyl esters of aliphatic acids. C. B. Havens. 2,612,489, Sept. 30.
Plug: *See*—
Axially movable rotary plug. Resetting fuse plug.
Plural-speed friction drive mechanism. S. E. Capell. 2,612,053, Sept. 30.
Pneumatic juice extractor. N. L. and R. D. Bates. 2,612,100, Sept. 30.
Pneumatic pump. A. R. Harvie. 2,612,118, Sept. 30.
Pneumatic switch. A. Allen. 2,612,185, Sept. 30.
Polarized electromagnetic device. R. T. Fisher. 2,612,544, Sept. 30.
Polymeric tetrafluoroethylene dispersions. S. G. Bankoff. 2,612,484, Sept. 30.
Polymerization of olefins and the alkylation of polymer. J. T. Horeczy. 2,612,531, Sept. 30.
Portable drilling unit. S. Siracusa. 2,612,347, Sept. 30.
Portable guard. A. L. Dillon and H. W. O'Shea, Jr. 2,611,909, Sept. 30.
Portable safety and trouble light. A. N. Anton. 2,612,549, Sept. 30.
Portable well servicing rig. T. R. Munsinger. 2,612,242, Sept. 30.
Potato chip construction. B. Stahmer. 2,612,453, Sept. 30.
Powder metallurgy. C. G. Goetzel and J. L. Ellis. 2,612,443, Sept. 30.
Power rotor and depth adjustment therefor. B. J. Drozinski. 2,612,094, Sept. 30.
Power transmission. H. O. Schjolin. 2,612,061, Sept. 31.
Power unit and governor for household food mixer. W. F. Bisley. 2,612,571, Sept. 30.
Precision stress breaker for removable partial restorations. P. G. and F. G. Baca. 2,611,957, Sept. 30.
Prefabricated marine structure. W. A. Hunsucker. 2,612,025, Sept. 30.
Press and clamp, Combined. T. H. Birch. 2,612,411, Sept. 30.
Press unloader and shutter. R. Chapman. 2,612,275, Sept. 30.
Presser lid with steaming attachment. H. D. Davis. 2,611,980, Sept. 30.
Preventing premature firing of depth charges. J. F. Andrews. 2,612,107, Sept. 30.
Primary cell. I. C. Blake. 2,612,533–7, Sept. 30.
Primary cell or battery. G. W. Heise and E. A. Schumacher. 2,612,532, Sept. 30.
Primary galvanic cell and battery and making same. N. C. Cahoon and G. W. Heise. 2,612,538, Sept. 30.
Probe device for fluid condition measuring apparatus. H. O. Nilsson and L. R. Phillips. 2,612,047, Sept. 30.
Process and apparatus for preparatory dressing of coal, minerals, and other solids, using a heavy liquid. W. Vogel. 2,612,267, Sept. 30.
Process and system for treating hydrocarbon oil with liquid hydrogen fluoride. J. J. Giachetto, D. H. Wagner, and J. E. Wolf. 2,612,464, Sept. 30.
Producing extractive materials from living trees. A. B. Anderson. 2,612,000, Sept. 30.
Projectile. B. F. Schmidt. 2,612,108, Sept. 30.
Propellent injection system with safety valve to cutoff fluid pressure supply. F. B. Halford, A. V. Cleaver, and E. B. Dove. 2,612,019, Sept. 30.
Protractor, Dividing. M. Rabatine. 2,611,971, Sept. 30.
Puller: *See*—
Reversible pipe puller.
Pulse delay circuit. J. E. Ranks. 2,612,605, Sept. 30.
Pulse-echo tracking system. R. H. Rines. 2,612,637, Sept. 30.
Pulse transmitter synchronizing system. G. H. Musselman. 2,612,601, Sept. 30.
Pulverizer, Impact. G. M. Croft. 2,612,320, Sept. 30.

Pump: *See*—
Air pump. Pneumatic pump.
Electromagnetic pump.
Pump and motor. C. J. Delegard. 2,612,110, Sept. 30.
Pump jack valve control mechanism. S. V. Smith. 2,612,142, Sept. 30.
Pump lubrication. F. D. Lowther, Sr. 2,612,116, Sept. 30.
Pumping-type flotation apparatus. A. C. Daman. 2,612,358, Sept. 30.
Pumping unit. J. R. Albright. 2,612,113, Sept. 30.
Pure well-crystallized hexanitrodiphenylamine, Preparing. J. H. Dijkema. 2,612,523, Sept. 30.
Quick-acting gear actuated pivoted valve. E. W. Flosdorf and L. W. Hull. 2,612,338, Sept. 30.
Rack. L. E. Earli. 2,612,274, Sept. 30.
Radial holder for toothpicks and like articles. C. B. Overbaugh. 2,612,259, Sept. 30.
Radiation detector. F. B. Marshall and J. W. Coltman. 2,612,610, Sept. 30.
Radiator type heat exchanger. A. R. Lintern. 2,612,349, Sept. 30.
Radio location and detection arrangement. N. M. Rust and G. E. Partington. 2,612,636, Sept. 30.
Rail car. O. A. Kuhler and W. E. Burnett. 2,612,121, Sept. 30.
Railway journal lubricator distributor. J. J. Hennessy. 2,612,416, Sept. 30.
Railway sleeping car. D. A. Crawford. 2,612,120, Sept. 30.
Range cluster switch. W. R. Crawford. 2,612,133, Sept. 30.
Range, Sectional. S. F. Lachowicz. 2,612,590, Sept. 30.
Rapid fine-grained copper electrodeposition. F. F. Reisinger. 2,612,469, Sept. 30.
Reclaiming mixtures of vulcanized natural rubber and synthetic rubber scraps. W. G. Kirby and L. B. Steinle. 2,612,479, Sept. 30.
Recorder. H. B. Vroom. 2,612,428, Sept. 30.
Recorder, Cycle time. J. D. Heide and J. E. Feldman. 2,612,430, Sept. 30.
Recorder, Survey. D. W. Galloway, Jr. 2,612,431, Sept. 30.
Recording and reproducing system, Magnetic. J. R. Anderson and A. C. Keller. 2,612,566, Sept. 30.
Recovery of vanadium-free chromate and aluminate. T. S. Perrin and R. G. Banner. 2,612,435, Sept. 30.
Rectangular wave form inverter. L. S. Distin and C. V. Wilman. 2,612,631, Sept. 30.
Reduction of esters, etholides, glycerides. P. Anglaret. 2,612,527, Sept. 30.
Reel: *See*—
Electric cable reel. Hose reel.
Fishing reel. Material-selecting reel.
Refining zinc ore. R. F. Orr and G. T. Junkin. 2,612,441, Sept. 30.
Refrigeration. C. E. Ploeger. 2,612,030, Sept. 30.
Refrigeration and carbonation unit. R. E. Parks. 2,612,357, Sept. 30.
Refrigerator door butter compartment. M. J. Schrader and D. E. Cooke. 2,612,029, Sept. 30.
Refrigerator vehicle body, Insulated. P. R. Schnabel. 2,612,028, Sept. 30.
Regenerative furnace of the pebble bed type. A. C. Peck and W. S. Thompson. 2,612,364, Sept. 30.
Regulated power supply. W. R. Ayres and H. J. Woll. 2,612,632, Sept. 20.
Regulator: *See*—
Induction voltage regulator.
Releasable fishing hook. A. W. Silva. 2,611,983, Sept. 30.
Remote water level indicator. L. S. De Mart. 2,612,044, Sept. 30.
Removable cushion plate and seat standard. G. F. Gielow and R. L. Edwards. 2,612,211, Sept. 30.
Rendering window surfaces water repellent and product resulting therefrom, Method and composition for. D. F. Stedman. 2,612,458, Sept. 30.
Resetting attachment for fluorescent lamp starters. L. Streland. 2,612,578, Sept. 30.
Resetting fuse plug. L. C. and J. F. Ondrejca. 2,612,575, Sept. 30.
Resin base dispersion products and synthetic greases. J. D. Morgan and R. E. Lowe. 2,612,474, Sept. 30.
Restoring records. W. A. Roberts, F. L. Moore, and E. D. Conforti. 2,611,927, Sept. 30.
Reversible pipe puller. F. L. Fraizer and E. H. Waltz. 2,612,343, Sept. 30.
Road roller. N. Revers. 2,612,090, Sept. 30.
Roadway load hanger. J. B. Templeton. 2,611,943, Sept. 30.
Rod: *See*—
Welding rod.
Rolling mill coupling box support. M. Morgan and J. M. O'Malley. 2,612,271, Sept. 30.
Rotary mixer. D. W. Dron. 2,612,354, Sept. 30.
Rotary plug valve. M. P. Laurent. 2,612,340, Sept. 30.
Rotatable seal for cowlings. M. E. Cushman. 2,612,227, Sept. 30.
Rotational orientation apparatus. C. W. Johnstone and W. N. Dean. 2,612,547, Sept. 30.
Rust-proofing iron and steel reinforcing elements for steam cured concrete. L. H. Simonsson and L. T. Ulistedt. 2,611,945, Sept. 30.
Sacroiliac block. V. Manley. 2,612,158, Sept. 30.
Safety attachment for smokers' ash receptacles. F. A. Nichols and D. H. Vero. 2,612,174, Sept. 30.
Safety device for preventing accidental erasing or double recording on magnetic record tape. H. S. Heller. 2,612,565, Sept. 30.
Safety shield. H. Singer. 2,612,352, Sept. 30.
Sanding and abrading pad. H. E. Longley. 2,612,011, Sept. 30.
Saw, Hack. H. H. Bouschor. 2,612,196, Sept. 30.
Saw, Swinging power-operated circular. J. M. Paton. 2,612,191, Sept. 30.
Scaffold support. L. M. Polak, Jr. 2,612,413, Sept. 30.
Scale for automatic weighing and sorting machines, Track. W. F. Altenpohl. 2,612,265, Sept. 30.
Scanning system for cathode-ray tubes. R. R. Thalner. 2,612,622, Sept. 30.
Scarifying applicator. A. W. Barry. 2,612,162, Sept. 30.
Screening mill. C. L. and T. R. Sidwell. 2,612,321, Sept. 30.
Sealing arrangement for sliding closures. J. W. Kendrick. 2,611,937, Sept. 30.
Sealing gland. J. V. Dahlgren. 2,612,393, Sept. 30.
Sealing unit. D. R. Lewis. 2,612,390, Sept. 30.
Seam ripping device. P. A. Schmitt. 2,611,954, Sept. 30.
Seat: *See*—
Infant's toilet seat.
Seat adjuster assembly. A. J. Rhodes. 2,612,208, Sept. 30.
Seat controlled mechanism for the control of the operation of motor vehicles. J. A. Morrison. 2,612,232, Sept. 30.
Seed hopper and rotary auger feeding to auxiliary hopper. I. E. Dorschner. 2,612,294, Sept. 30.
Selective electrodeposition of silver. J. C. Griess, Jr., and L. B. Rogers. 2,612,470, Sept. 30.
Self-feeder. C. C. Fuis. 2,612,137, Sept. 30.
Self-framing photographic film unit containing a liquid, and process for producing framed positive images. E. H. Land. 2,612,450, Sept. 30.
Sensitive hydraulic tracer valve. W. I. Evans. 2,612,184, Sept. 30.
Separation of oil and wax by continuous filtration. W. Kiersted, Jr., and H. H. Gross. 2,612,465, Sept. 30.
Separator: *See*—
Magnetic separator.
Shaft position control mechanism. E. Toth and G. H. Burbage. 2,612,050, Sept. 30.
Shaped articles from artificial or synthetic fiber- or film-forming materials, Producing. H. M. Hoxie. 2,611,929, Sept. 30.
Shock absorbing means for power-driven hand tools. J. Herndon. 2,611,960, Sept. 30.
Shoe, Snowplow. W. W. Weller. 2,611,979, Sept. 30.
Shoe with tapered rocker type midsole. W. H. Joyce, Jr. 2,611,978, Sept. 30.
Shoelace tightener. T. C Cairns. 2,611,940, Sept. 30.
Shroud supporting frame for automobile engine compartments. A. R. Newell. 2,612,233, Sept. 30.
Shutter and awning, Combination. E. T. Wheeler. 2,611,936, Sept. 30.
Signal-to-noise ratio in pulse reception. M. G. Nicholson, Jr. 2,612,603, Sept. 30.
Sinker for fishing lines. E. B. Gibson. 2,611,988, Sept. 30.
Skate wheel. V. E. Deschenes. 2,612,410, Sept. 30.
Skirt hanger. S. L. Rubin. 2,612,301, Sept. 30.
Slack adjuster for brakes. H. A. Moeller and C. L. Orr. 2,612,240, Sept. 30.
Sleeve for indirectly heated cathode having an integral tab. R. Friedli, Jr. 2,612,619, Sept. 30.
Slicing device, Cheese. J. Chambers. 2,611,952, Sept. 30.
Slipper having wings integral with sole. M. Yamade. 2,611,977, Sept. 30.
Smoking pipe. P. Gustafson. 2,612,172–3, Sept. 30.
Smoking stand. J. C. Williamson. 2,612,313, Sept. 30.
Soldering. H. H. Willard and W. S. Gale. 2,612,460, Sept. 30.
Soldering flux. H. H. Willard and W. S. Gale. 2,612,459, Sept. 30.
Solenoid-operated gas valve. L. M. Persons. 2,612,188, Sept. 30.
Soluble copolymers of diallylic phthalates and allylic alcohols. P. O. Tawney. 2,612,492, Sept. 30.
Solutions of homopolymers of certain optically active alpha-amino acids in polychloro- and poly-fluoro-acetic acids. R. E. Miegel. 2,612,487, Sept. 30.
Soybean glue. A. J. Golick. 2,612,455, Sept. 30.
Spanner type flywheel rotating tool. F. J. Brugmann. 2,612,067, Sept. 30.
Spark plug and making the same. H. A. Brinson and E. D. Faatz. 2,612,151, Sept. 30.
Sphygmomanometer. C. C. Curtis. 2,612,156, Sept. 30.
Spring: *See*—
Switch contact spring.
Spring. E. Eger. 2,612,370, Sept. 30.
Spring testing machine. R. C. Pierce. 2,612,038, Sept. 30.
Stabilization of organic materials with aryl polyphosphites. J. F. Nelson. 2,612,488, Sept. 30.
Stabilized diazonium salts and effecting same. W. H. von Glahn and H. A. Bergstrom. 2,612,494–5, Sept. 30.

Stair climbing vehicle attachment. R. S. Vogel. 2,612,379, Sept. 30.
Stalk shredder. J. B. Jarmin. 2,612,017, Sept. 30.
Stand: *See*—
Smoking stand.
Steam boiler with equalized water level. D. M. Schoenfeld. 2,612,144, Sept. 30.
Steering connection for vehicle pushed implements. M. M. Plitz. 2,612,385, Sept. 30.
Stocking package. H. E. Schoenhut. 2,612,260, Sept. 30.
Stopper, Sink. A. G. Gross. 2,611,904, Sept. 30.
Storm door and panel construction. E. P. Comfort. 2,611,933, Sept. 30.
Stove door and window unit. H. E. Mills. 2,612,154, Sept. 30.
Stress measurement technique. E. F. Shelley. 2,612,039, Sept. 30.
Styrene-monoalkyl maleate-polyvinyl alcohol interpolymers emulsion adhesive and preparing same. M. E. Cameron. 2,612,486, Sept. 30.
Submarine foundation and erecting. W. A. Hunsucker. 2,612,024, Sept. 30.
Subscription type signaling system. F. W. Crotty and E. M. Roschke. 2,612,552, Sept. 30.
Suction cleaner runner and bracket assembly. A. P. Cawl. 2,612,380, Sept. 30.
Sugar cane mill. A. Bernard. 2,612,101, Sept. 30.
Sulfation of alginic acid in alcoholic sulfuric acid. H. E. Alburn. 2,612,498, Sept. 30.
Supplementary fixture support. G. D. Smith. 2,612,273, Sept. 30.
Supply roll tension in a measuring instrument. G. W. Barnes, Jr. 2,612,323, Sept. 30.
Support: *See*—
Rolling mill coupling box support. Supplementary fixture support.
Scaffold support.
Support and stripper. W. A. Erhardt, Jr. 2,612,281, Sept. 30.
Supporting truss members for cycle saddles. H. E. Kalter. 2,612,206, Sept. 30.
Suppository package. M. W. Percopo. 2,612,261, Sept. 30.
Switch: *See*—
Lamp switch. Range cluster switch.
Pneumatic switch.
Switch actuator. S. G. Ransome. 2,612,368, Sept. 30.
Switch contact spring. S. G. F. Blomqvist. 2,612,307, Sept. 30.
Synthesis of hydrocarbons from carbon monoxide and hydrogen by means of a fluidized fixed-bed. J. N. Moran. 2,612,512, Sept. 30.
Syringe. C. T. Manville. 2,612,161, Sept. 30.
System of transmission by wave guides. M. F. G. Jouguet. 2,612,559, Sept. 30.
Table top construction, Sliding. C. H. Hennell. 2,612,423, Sept. 30.
Tape dispenser. N. A. Gall. 2,612,322, Sept. 30.
Tapered locking bushing mechanism. G. Russell. 2,612,395, Sept. 30.
Tappet wrench. O. Heumader. 2,612,068, Sept. 30.
Telegraph distributor. G. T. Baker. 2,612,562, Sept. 30.
Telegraph distributor. G. T. Dain. 2,612,563, Sept. 30.
Telegraph selector mechanism. R. C. Kinsman and T. Perry. 2,612,555, Sept. 30.
Television receiver output transformer. R. O. Gray. 2,612,545, Sept. 30.
Television system. J. H. Homrighous. 2,612,553, Sept. 30.
Tension adjustment for canvas cots. P. E. Siggers. 2,611,908, Sept. 30.
Tension adjustment for folding canvas cots. S. Backer. 2,611,906, Sept. 30.
Terminal and contact construction for electric switches. E. N. Jacobi. 2,612,577, Sept. 30.
Testing fluid ducts. J. M. van Rooy. 2,612,037, Sept. 30.
Thermally compensated rubber springs. M. Mooney. 2,612,369, Sept. 30.
Thermometer. J. J. Crawley. 2,612,046, Sept. 30.
Thermometer. P. D. Zemany. 2,612,048, Sept. 30.
Thianaphthylthiazolyl disulfides and preparing same. W. S. Emerson and T. M. Patrick, Jr. 2,612,504, Sept. 30.
Thiocyanates of 2-vinylthiophenes. W. S. Emerson and T. M. Patrick, Jr. 2,612,506, Sept. 30.
Tie lining guide mechanism. V. M. Newman. 2,612,126, Sept. 30.
Tobacco pipe receptor. G. N. Polymeros. 2,612,171, Sept. 30.
Toilet tank fitting holding tool. S. Wanamaker. 2,611,949, Sept. 30.
Tong. W. L. Church. 2,612,066, Sept. 30.
Tool: *See*—
Electrically heated paint and paper softening tool. Toilet tank fitting holding tool.
Fishing tool. Yarn design forming tool.
Machine tool.
Spanner type flywheel rotating tool.
Tool for tube sockets and terminal strips, Soldering. G. B. Warsaw. 2,612,128, Sept. 30.
Toolholder. K. Ziegler. 2,611,948, Sept. 30.
Toolholder for tapered shanked tools. R. A. Edens. 2,612,377, Sept. 30.
Tooth cleaner. S. W. Sam. 2,612,176, Sept. 30.
Top, Illuminated. J. W. Krapp. 2,611,995, Sept. 30.
Towed glider with automatic tow cable release. R. M. Carlson. 2,612,327, Sept. 30.
Towel feeding and cutting machine. C. Jacobson. 2,612,425, Sept. 30.
Towing device. J. A. Manders. 2,612,383, Sept. 30.
Toy, Article projecting figure. H. Solloway and T. L. Bonkowski. 2,611,997, Sept. 30.
Toy, Jet. O. R. Dailey. 2,611,994, Sept. 30.
Toy whale, Spouting. P. Garelick. 2,611,996, Sept. 30.
Track for sliding doors. J. H. Borden. 2,611,920, Sept. 30.
Traction device. G. L. Bumbaugh. 2,612,202, Sept. 30.
Tractor attachment. E. E. Schatz and O. Ham. 2,612,345, Sept. 30.
Traffic signal and the like, Portable. E. F. Swanson. 2,612,548, Sept. 30.
Trailer hitch. J. J. Wiegman. 2,612,384, Sept. 30.
Trailer stabilizing connection. S. K. Landis. 2,612,382, Sept. 30.
Transconductor employing field controlled semiconductor. O. M. Stuetzer. 2,612,567, Sept. 30.
Translating apparatus for electric signal pulse combinations. O. Moser. 2,612,556, Sept. 30.
Transport coffin and casket, Combination. N. L. Etten and J. M. Beach. 2,611,946, Sept. 30.
Trap: *See*—
Animal trap.
Trap for rats and other rodents. G. Lundquist. 2,611,990, Sept. 30.
Tray, Dental mold. F. W. Baum. 2,611,959, Sept. 30.
Tree felling device. R. P. Ingraham, J. W. Phillips and S. E. Ganis. 2,612,194, Sept. 30.
Triazine substances for textile treatment. R. H. Wilson. 2,612,501, Sept. 30.
Trochanteric plate for bone surgery. J. G. Collison. 2,612,159, Sept. 30.
Truck auxiliary brake. J. V. Powell. 2,612,241, Sept. 30.
Tube: *See*—
Cathode-ray tube. Gaseous discharge tube.
Tube squeezer and brush holder, Collapsible. N. Lipton. 2,612,290, Sept. 30.
Tuning mechanism. D. C. Felt. 2,612,051, Sept. 30.
Two-cycle pump and engine assembly. J. R. Evans. 2,612,149, Sept. 30.
Two-stage filter. W. Lewis, Jr., and L. T. Clifton. 2,612,270, Sept. 30.
Type bar releasing mechanism for typewriters. A. Gissel and E. Reuter. 2,612,252, Sept. 30.
Unidirectional wire grinder of the dragged workpiece type and method. L. Illmer. 2,612,004, Sept. 30.
Unitary cooky cutter. I. P. W. Nord. 2,612,123, Sept. 30.
Universal motion actuator. A. R. Koch, Jr. 2,612,049, Sept. 30.
Unloading mechanism for concrete block molding machines. C. W. Claytor and J. W. Hendricks. 2,612,276, Sept. 30.
Upholstery fastening means for furniture. W. P. Bott. 2,612,213, Sept. 30.
Use of phosphites in esterification reactions of synthetic alcohols. B. E. Hudson, Jr., H. L. Wilson and J. F. Nelson. 2,612,515, Sept. 30.
V groove pulley centrifugal clutch. M. H. Davis. 2,612,054, Sept. 30.
Vacuum cleaner attachment for use in cleaning Venetian blinds. T. J. and J. Ventsias. 2,611,917, Sept. 30.
Vacuum tube characteristic tracer. J. G. Miles. 2,612,626, Sept. 30.
Value setting, printing, and registering device. F. J. Rouan and B. Knauer. 2,612,104, Sept. 30.
Valve: *See*—
Fluid pressure operated flow control valve. Sensitive hydraulic tracer valve.
Quick-acting gear actuated pivoted valve. Solenoid-operated gas valve.
Rotary plug valve.
Valve. J. Maynard. 2,612,337, Sept. 30.
Valve assembly for hydraulic control systems, Dual check. W. H. Worthington. 2,612,375, Sept. 30.
Valve construction. F. J. Ferruzzi. 2,612,339, Sept. 30.
Valve construction. J. D. Langdon. 2,612,183, Sept. 30.
Valve for delivering carbonated beverages. N. L. Luster. 2,612,182, Sept. 30.
Valve for pneumatic tools, Throttle. J. E. Terry. 2,612,342, Sept. 30.
Valved pipe coupling. W. F. MacGlashan, Jr. 2,612,389, Sept. 30.
Vane pump and vane therefor. W. Ernst. 2,612,115, Sept. 30.
Vane pump or motor. W. Ernst. 2,612,114, Sept. 30.
Vaporizer. L. Boddy. 2,612,432, Sept. 30.
Variable pitch propeller blade root construction. F. Tornes and N. J. Liaaen. 2,612,229, Sept. 30.
Variable pitch pulley. C. H. Miner. 2,612,055, Sept. 30.
Variable resistor signal equalization unit. W. H. Turner. 2,612,557, Sept. 30.
Vehicle headlight. L. B. Paul. 2,612,616, Sept. 30.
Vehicle hoist. E. B. Thompson. 2,612,355, Sept. 30.
Vehicle wheel compensating suspension. A. Ronning. 2,612,387, Sept. 30.
Vending machine, Newspaper. C. L. Hawks. 2,612,426, Sept. 30.
Voltage level selector circuit. G. T. Jacobi. 2,612,550, Sept. 30.

Wall construction. I. P. Whitehouse and A. G. Damon. 2,612,246, Sept. 30.
Washing machine with detergent injector, Automatic. A. R. Constantine. 2,612,034, Sept. 30.
Water metering flush valve assembly. P. Romanelli and C. Miller. 2,612,187, Sept. 30.
Water-repellent compositions. T. J. Rasmussen. 2,612,482, Sept. 30.
Weigh can dumping control. V. Schwarzkopf. 2,612,180, Sept. 30.
Weight-shifting logging sulky. L. R. Simmons. 2,612,279, Sept. 30.
Welding method and apparatus. R. C. Andersen. 2,612,580, Sept. 30.
Welding rod. H. Robinson. 2,612,581, Sept. 30.
Welding stud. T. Nelson. 2,612,394, Sept. 30.
Wheel: *See*—
Skate wheel.
Wheel chock for dual wheel vehicles. W. G. Watkins. 2,612,239, Sept. 30.
Wheeled attachment for hand trucks. H. E. Schutzer and R. C. Frohner. 2,612,386, Sept. 30.
Wheeled supporting device attachable to bicycles or containers. F. R. McNeill and F. Abel. 2,612,388, Sept. 30.
Wide-angle high-speed photographic objective. W. W. Albrecht. 2,612,077, Sept. 30.
Wind direction and velocity signaling system. A. E. Chisholm and J. V. Hamar. 2,612,043, Sept. 30.
Window construction. R. B. Pollman. 2,612,097, Sept. 30.
Window stop device. M. M. Miller. 2,612,598, Sept. 30.
Windshield wiper system. R. Freedman and J. E. Dube. 2,612,141, Sept. 30.
Wire leader. N. W. Romsos. 2,612,546, Sept. 30.
Wrench: *See*—
Tappet wrench.
X-ray film holder. J. T. Bowser. 2,612,609, Sept. 30.
Yarn design forming tool. A. J. Ciroli and P. J. Cannata. 2,611,947, Sept. 30.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 30, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class; second number = subclass, third number = patent number.

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93: 2,612,290
117: 2,612,291
142.4: 2,612,292
182: 2,612,293
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277: 2,612,295
385: 2,612,296
401: 2,612,297
410: 2,612,298
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453: 2,612,300
223— 95: 2,612,301
224— 4: 2,612,302
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225— 21: 2,612,304
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44: 2,612,307
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230— 130: 2,612,310
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185: 2,612,312
232— 43.1: 2,612,313
233— 7: 2,612,314
235— 60.5: 2,612,315
61: 2,612,316
89: 2,612,317
92: 2,612,318
144: Re.23,553
236— 15: 2,612,319
240— 2: 2,612,597
10.65: 2,612,598
11.2: 2,612,590
25: 2,612,600
241— 39: 2,612,320
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242— 55.5: 2,612,322
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84.7: 2,612,325
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121: 2,612,333
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27: 2,612,604
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41.9: 2,612,607

250— 43.5: 2,612,608
70: 2,612,609
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251— 8: 2,612,337
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97: 2,612,341
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255— 1.4: 2,612,346
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17.2: 2,612,481
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260— 29.4: 2,612,483
29.6: 2,612,485
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344.6: 2,612,508
410.6: 2,612,509
448.2: 2,612,510
448.8: 2,612,511
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654: 2,612,530
671: 2,612,531
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279— 2: 2,612,376
22: 2,612,377
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280— 5.24: 2,612,379
6: 2,612,387
12: 2,612,380
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33.14: 2,612,383

280—33.44: 2,612,384
33.55: 2,612,385
33.9: 2,612,382
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295: 2,612,388
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166: 2,612,397
230: 2,612,398
340: 2,612,399
294— 19: 2,612,400
27: 2,612,401
102: Re.23,557
299— 73: 2,612,402
84: 2,612,403
89: Re.23,551
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115: 2,612,405
121: 2,612,407
125: 2,612,406
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323— 22: 2,612,632
332— 7: 2,612,633
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336— 79: 2,612,635
343— 7: 2,612,637
9: 2,612,636
346— 14: 2,612,428
33: 2,612,429
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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,611,955: 30—216
2,611,977: 36—11.5
2,611,982: 43—4
2,612,065: 81—3.1
2,612,207: 155—78
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CLASSIFICATION OF DESIGNS

D 3—19: Des. 167,821
D 5— 2: Des. 167,871
D 7— 7: Des. 167,834
D10— 6: Des. 167,876
D13— 1: Des. 167,870
D14— 3: Des. 167,832
18: Des. 167,833
D17— 1: Des. 167,823
7: Des. 167,845
D21— 1: Des. 167,831

D26—14: Des. 167,873
D29— 1: Des. 167,861
2: Des. 167,827
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D34— 4: Des. 167,837
5: Des. 167,852
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D34—15: Des. 167,822
D35— 3: Des. 167,830
D44—26: Des. 167,829
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D48— 4: Des. 167,863
16: Des. 167,864
20: Des. 167,835
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D52— 3: Des. 167,841
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D54—14: Des. 167,826
D56— 4: Des. 167,828
D58–12.6: Des. 167,868
D61— 1: Des. 167,874

D62— 3: Des. 167,867
D67— 3: Des. 167,825
D80— 5: Des. 167,839
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8: Des. 167,836
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11: Des. 167,862
D82— 2: Des. 167,847
Des. 167,848

D83— 1: Des. 167,857
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D92— 1: Des. 167,846
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4: Des. 167,872

U. S. GOVERNMENT PRINTING OFFICE: 0—1952

Condition of Applications Under Examination at Close of Business September 12, 1952

Total number of patent applications awaiting action, 96,777. Date of oldest new application, December 14, 1951; date of oldest amended application, December 10, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	1-2-52	1-2-52	1477
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-15-52	1-21-52	1203
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	2-13-52	2-14-52	1679
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	12-24-51	12-22-51	1426
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	12-21-51	12-20-51	1154
6. SURLE, H., Carbon Chemistry (part)	1-29-52	1-19-52	1960
7. ANDERSON, E. G. (Acting), Optics; Photography (part)	1-15-52	1-9-52	1361
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	1-15-52	1-15-52	1378
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	12-14-51	12-13-51	1453
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacle; Bottles and Jars; Paper Receptacles.	1-11-52	1-11-52	1303
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	12-21-51	1-11-52	853
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-17-51	12-19-51	1295
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	12-20-51	12-20-51	1162
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus.	12-27-51	12-26-51	1474
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	2-13-52	2-14-52	1397
16. LOVEWELL, N. N., Television, Telephony	12-29-51	12-28-51	1342
17. LEIGHY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-20-51	12-17-51	1347
18. KURZ, J. A., Power Plants; Speed Responsive Devices	12-20-51	12-17-51	854
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-2-52	12-22-51	1069
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	1-8-52	1-9-52	1363
21. MADER, R. C., Textiles	12-17-51	12-20-51	1294
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	12-26-51	12-17-51	1105
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	1-8-52	1-3-52	812
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	1-25-52	1-28-52	1405
25. McNAB, J. C., (Acting), Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	1-3-52	1-2-52	1362
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	12-29-51	1-2-52	1205
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	12-29-51	12-28-51	1638
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-18-51	12-13-51	1245
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	1-5-52	12-18-51	1214
30. BISHOFF, A., Fluid Sprinking, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	1-21-52	1-21-52	1518
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-15-52	1-11-52	2230
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-proportioning Systems.	1-4-52	1-7-52	1215
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-28-51	12-17-51	1807
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	1-3-52	12-26-51	1098
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-2-52	1-2-52	1343
36. McFADYEN, A. D., Measuring and Testing	1-4-52	1-2-52	1115
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	1-5-52	1-11-52	1197
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	12-20-51	12-21-51	1604
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	1-26-52	1-12-52	1468
40. DRUMMOND, E. J., Receptacles (part); Packages	2-5-52	2-6-52	1262
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	1-12-52	1-16-52	897
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	1-7-52	1-10-52	1041

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 96,777. Date of oldest new application, December 14, 1951; date of oldest amended application, December 10, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. SCHWARTZ, A. C. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	1-2-52	1-3-52	1393
44. HARVEY, L. P., Beds; Chairs; Seats	12-26-51	12-19-51	1180
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	1-12-52	1-14-52	1173
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-20-51	12-19-51	1131
47. KANOF, W. J., Mining, Quarrying and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-20-51	12-18-51	1590
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	12-27-51	12-26-51	1623
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-19-51	12-15-51	1382
50. BENGEL, W. G., Synthetic Resins; Rubber	2-7-52	2-6-52	1503
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	1-16-52	1-14-52	1358
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-21-52	1-21-52	2012
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-18-52	1-17-52	932
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-20-51	12-10-51	1679
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	12-22-51	12-18-51	1038
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	1-7-52	1-3-52	1906
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-17-52	1-22-52	1568
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	1-2-52	1-9-52	1166
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-16-52	1-14-52	1077
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	2-12-52	2-1-52	926
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-26-51	12-24-51	1301
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	2-6-52	1-19-52	1169
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-17-51	12-18-51	1712
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	12-29-51	1-3-52	1693
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	1-8-52	1-8-52	1439
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	12-21-51	12-13-51	931
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	2-12-52	2-1-52	1192
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-1-52	1-21-52	1435
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	12-15-51	12-17-51	1242
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-18-51	12-18-51	2970
DESIGNS: A. BREHM, G. L., Industrial Arts	6-2-52	7-1-52	689
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	5-16-52	5-15-52	742

Total number of trade-mark applications awaiting action (including renewals and republications), 14,829. Date of oldest new application, March 24, 1952; date of oldest amended application, March 24, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	3-24-52	3-24-52	3561
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	3-24-52	3-24-52	3664
Renewals (All Classes)	6-16-52	7-26-52	743
Republications (All Classes)	6-9-52	4-10-52	274
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	3-26-52	3-26-52	3570
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	3-27-52	4-1-52	3017

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE SHACKELL

No. 5854. Decided February 18, 1952

[F.2d 720; 90 USPQ 34]

1. PATENTABILITY—ANTICIPATION—APPLICANT'S LACK OF KNOWLEDGE OF REFERENCES NOT CONSIDERED.

Although it be assumed that the applicant personally never saw or heard of the publication disclosing the claimed composition, and his experiments were entirely original as far as he was concerned, *Held* that these circumstances do not alter the plain and unambiguous language of the statute which, in effect, inhibits the granting of a patent for a composition which has been described in printed publications before the invention or discovery was made by patent applicant.

2. SAME—SAME—REFERENCE NEED NOT EMBODY AN INVENTION.

Held that where the references disclose the composition, it is immaterial whether the disclosure resulted from an inventive concept, an accidental discovery or merely skill of the art.

3. SAME—SAME—REFERENCE NEED NOT DISCLOSE UTILITY FOR COMPOSITION.

Where the applicant's discovery is described in the publications, the terms of the statute become applicable, and the fact that the publications do not disclose or suggest any tests for demonstrating the utility of the compositions in practical affairs is immaterial.

4. SAME—COMPOSITION OF MATTER—THUAU DOCTRINE APPLIES WHERE REFERENCE DISCLOSES NO USE.

Although the references may not set forth *any* use for the composition, described therein, *Held* that there is no patentable distinction between discovering a use and discovering a *new* use for a chemical product developed by experimentation, and the case is not distinguishable on that ground from *In re Thuau*, 30 CCPA 979, 135 F.2d 344, 57 USPQ 324, 554 O. G. 14, and like cases.

5. SAME—PARTICULAR SUBJECT MATTER—GERMICIDE.

Certain claims to a germicidal composition *Held* properly rejected as anticipated by the cited prior art.

APPEAL from Patent Office. Serial No. 536,054.

AFFIRMED.

Leon F. Shackell, pro se.

E. L. Reynolds (*J. Schimmel* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the rejection by the Primary Examiner of three claims, being all the claims, of appellant's patent application, Serial No. 536,054, filed May 17, 1944, entitled "Germicide."

The claims are numbered 649, 650, and 651 respectively. All three were rejected as being unpatentable over prior art cited, and numbers 649 and 650 on the additional ground that they are unduly broad, indefinite, and functional and do not meet the statutory requirement for particularity in claiming.

First consideration will be given the rejection based on prior art.

Appellant, representing himself, filed an elaborate brief which covers seventy-five printed pages and constitutes an interesting treatise on the chemical phases of the case. The legal questions at issue are argued in great detail and approximately one hundred court decisions are cited, many of them being quoted from and analyzed. Different text books on chemistry are cited and quotations are made from Robinson on Patents.

As we view the case, it is not necessary to its decision to attempt answers to all the refinements and ramifications of reasoning in which appellant indulges. The subject matter, as is true of almost all chemical cases, is highly technical, but there is nothing particularly abstruse about the issues involved.

The following (page references being deleted as indicated by asterisks) from the "foreword" to appellant's brief gives a clear idea of the composition of matter which appellant claims to be patentable:

> Each of the rejected claims * * * is drawn to a substantially water-free germicidal composition that is adapted as such for direct local application, comprising, in substantially homogeneous physical admixture, a highly caustic phenol and a nitrogenous polar material; the latter being defined by a number of limiting characteristics recited in each claim. The phenol—typified by carbolic acid * * *—is the essential germicidal agent, but by itself, or even when in dilute solution in water * * *, is corrosive to tissues when applied directly thereto. The nitrogenous polar material serves to reduce or eliminate the causticity of the phenol without proportionately reducing its germicidal power. In the specification * * *, and occasionally in this brief, the nitrogenous polar material may be referred to as causticity-reducing agent and as phenol-tempering agent. * * *

The following is quoted from appellant's brief concerning the claims:

> None of the appealed claims is drawn to a composition consisting of an individual compound; instead, each claim is for a product—that is, for a composition made up of certain distinct ingredients. * * *
>
> Claim 649, the broadest of the appealed claims, is drawn generically to the use of a nitrogenous polar material * * * possessing characteristics which also are recited in that claim.
>
> Claim 650 is a generic claim, but narrower in scope than claim 649 in that the nitrogenous polar material is limited to an amide. * * * Claim 651 is a specific claim; the nitrogenous polar material being limited there-

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in • • • to the single compound acetanilid, which is the second one of the amides disclosed in Example 5. • • •.

The claims read as follows:

649. A substantially water-free, phenolic, germicidal composition that is adapted as such for direct local application, said composition comprising a highly caustic phenol in substantially homogeneous physical admixture with a nitrogenous polar material that is preponderantly anionoid in molecular structure and further characterized (*a*) by being chemically compatible with the caustic phenol, and (*b*) by being capable of forming a substantially homogeneous physical system with more than its weight of the caustic phenol; said physical system, when so formed and when applied to a substantially dry cutaneous surface, exhibiting a delay in the time of onset of caustic effect of the phenol of at least 100 per cent beyond the time of onset of caustic effect of a control mixture containing the same phenol in the same proportion by weight as in said physical system, but with said nitrogenous polar material being substituted in the control mixture by a substantially nonpolar hydrocarbon of the class consisting of cyclohexane, pinene, p-xylene and a mixture of isomeric xylenes; said composition, upon standing in a closed container at room temperature, remaining substantially free from segregation therein of ingredients thereof; said composition containing the caustic phenol in an effective germicidal concentration; and said nitrogenous polar material being present in the composition in an amount sufficient to reduce the causticity of the phenol without proportionately reducing its germicidal power.

650. A substantially water-free, phenolic, germicidal composition that is adapted as such for direct local application, said composition comprising a highly caustic phenol in substantially homogeneous physical admixture with a nitrogenous polar material in the form of an amide that is preponderantly anionoid in molecular structure and further characterized (*a*) by being chemically compatible with the caustic phenol, and (*b*) by being capable of forming a substantially homogeneous physical system with more than its weight of the caustic phenol; said physical system, when so formed and when applied to a substantially dry cutaneous surface, exhibiting a delay in the time of onset of caustic effect of the phenol of at least 100 per cent beyond the time of onset of caustic effect of a control mixture containing the same phenol in the same proportion by weight as in said physical system, but with the amide being substituted in the control mixture by a substantially nonpolar hydrocarbon of the class consisting of cyclohexane, pinene, p-xylene, and a mixture of isomeric xylenes; said composition, upon standing in a closed container at room temperature, remaining substantially free from segregation therein of ingredients thereof; said composition containing the caustic phenol in an effective germicidal concentration; and said amide being present in the composition in an amount sufficient to reduce the causticity of the phenol without proportionately reducing its germicidal power.

651. A substantially water-free, phenolic, germicidal composition that is adapted as such for direct local application, said composition comprising a highly caustic phenol in substantially homogeneous physical admixture with a nitrogenous polar material in the form of acetanilid that is preponderantly anionoid in molecular structure and further characterized (*a*) by being chemically compatible with the caustic phenol, and (*b*) by being capable of forming a substantially homogeneous physical system with more than its weight of the caustic phenol; said physical system, when so formed and applied to a substantially dry cutaneous surface, exhibiting a delay in the time of onset of caustic effect of the phenol of at least 100 per cent beyond the time of onset of caustic effect of a control mixture containing the same phenol in the same proportion by weight as in said physical system, but with the acetanilid being substituted in the control mixture by a substantially nonpolar hydrocarbon of the class consisting of cyclohexane, pinene, p-xylene, and a mixture of isomeric xylenes; said composition, upon standing in a closed container at room temperature, remaining substantially free from segregation therein of ingredients thereof; said composition containing the caustic phenol in an effective germicidal concentration; and said acetanilid being present in the composition in an amount sufficient to reduce the causticity of the phenol without proportionately reducing its germicidal power.

Appellant's brief states the grounds of rejection in the following:

The Patent Office tribunals have rejected each of the appealed claims for anticipation by each of two non-patent publications • • • and have rejected generic claims 649 and 650 as too broad, indefinite and functional and as not properly defining the invention to which each of the latter claims is drawn. • • •

It appears that both the Primary Examiner and the Board of Appeals in fact listed four references as follows: Wood-La Wall, Dispensatory of U. S. of America, Phila., J. P. Lippincott, 22nd Ed., page 8. Gilman, Organic Chemistry—An Advanced Treatise, vol. 11, pages 1859–1860 (cited by applicant). Backoff, 2,347,983, May 2, 1944. Hrynakowski et al., Roczniki Chemii, vol. 18 (1938), pages 538–541.

However, the *Gilman* article was mentioned only by the Examiner and his allusion to it was made in connection with the rejection for alleged indefiniteness, breadth and functionalism.[1] The Backoff patent was mentioned also by the Primary Examiner, but it was not relied upon by either him or the Board.

So, as to the rejection based on prior art, or "old composition" as the Primary Examiner expressed it, just two references are cited—the Wood-La Wall and the Hrynakowski published articles. The latter is understood to have been published in Poland in 1938. A translation of the portion cited as a reference appears in the record. The former appears to have been published in 1937. So, both publications antedated appellant's filing date by six or more years.

As we view the case, the heart of appellant's alleged invention is set forth in the phraseology, "said composition comprising a highly caustic phenol in substantially homogeneous physical admixture with a nitrogenous polar material [acetanilid being specified as the material in claim 651] that is preponderantly anionoid in molecular structure."

This view is in harmony with the following taken from appellant's brief:

Appellant's inventive concept is that of a water-free, germicidal composition, comprising a homogeneous physical mixture of a highly caustic phenol and a chemically compatible polar material; the molecular polarization of the latter, in contrast with that of an otherwise suitable nonpolar hydrocarbon, being such that, when admixed with an equal or greater weight of the phenol, the polar material reduces the causticity of the phenol without proportionately reducing its germicidal power, so that the composition is adapted for direct local application to the skin even when its phenol content is upwards of 50 per cent by weight.

The nitrogenous polar material is mixed with the caustic phenol, such as carbolic acid, for the purpose of tempering the phenol with respect to its "burning" or "cauterizing" effect upon the skin, and it must be "present in the composition in an amount sufficient to reduce the causticity of the phenol without proportionately reducing its germicidal power." It must be "chemically compatible with the caustic phenol," by which, we suppose, is meant something which readily will be absorbed into, or at least readily compounded with, the phenol. It also is required that the nitrogenous polar material be capable of forming a substantially "homogeneous physical system" with more than its weight of the caustic phenol—that is, as we understand it, the nitrogenous polar material must be a substance which will work properly when the amount of phenol with which it is mixed weighs more than the polar material weighs.

This is followed by a clause which, at least to a layman, seems somewhat awkwardly phrased. Apparently, it means that the composition defined forms a "physical system" which results in delaying "the time of onset of [the] caustic effect" of the phenol when the composition is applied to the skin, this delay being at least 100 per cent "beyond the time" of onset of the caustic effect when, instead of a nitrogenous *polar* material such, for example, as acetanilid, a substantially *nonpolar* hydrocarbon of the class described (cyclohexane, pinene, etc.) is used to temper the phenol. We suppose it means that the caustic effect of carbolic acid or other phenol in appellant's mixture is not felt so quickly as it is when the tempering agent is a nonpolar hydrocarbon.

However, whatever its meaning, it is a mere statement of a result and does not affect the patentability of the claims.

There is also a statement in each of the claims to the effect that the composition at issue remains substantially free from segregation of its ingredients when standing in a closed container at room temperature. This too states a result.

The last two clauses relate to the necessity of having the requisite amounts of phenol and nitrogenous polar material—an obvious requirement which does not constitute a patentable limitation.

Appellant's brief states:

The highly caustic phenols, which are primarily material to the issue of anticipation here presented, are carbolic acid and the three isomeric cresols—namely, orthocresol (o-cresol), metacresol (m-cresol) and paracresol (p-cresol). • • • When pure, each of these phenols, with the exception of metacresol, is a crystalline solid at ordinary room temperature (20° C., or 68° F.); but each melts at a temperature below 45° C. (113° F.) A liquid mixture of the three cresol isomers is commonly called tricresol. • • • The generic or class name "phenol" is also the ordinary chemical name for carbolic acid. In this brief, therefore, the specific chemical compound phenol ordinarily will be designated as carbolic acid.

All four of the foregoing phenols are named in appellant's specification and he therein recites also a series of experiments which he conducted with phenol-tempering agents and the results of his experiments in finding what are claimed to be nitrogenous polar materials, meeting the requirements of the counts, are summarized in his brief as follows (page references to the record being deleted):

With very few exceptions • • •, the polar material in each of the aforementioned 240 odd tested compositions was a single member of a group totalling about 196 distinct nitrogenous compounds. These compounds, a large majority of which also contain the element oxygen, are distributed among examples in the specification substantially as follows: 21 amides in Example 5 • • •—not including 2 amides disclosed in Example 12 • • •; 13 nitrogenous esters in Example 6*a* • • •; 80 acidulated amines in Example 6*b* • • •; 50 acidulated alcoholamines in Example 6*c* • • •; 12 nitriles in Example 10 • • •; 7 compounds in Example 11 • • •; 10 compounds in Example 12 • • •; and 3 compounds in Example 13 • • •. *Each of the foregoing nitrogenous compounds comes within the scope of one or more of appealed claims 649, 650 and 651.* [Italics in last sentence supplied.]

In his official statement following the appeal to the Board the Primary Examiner wrote as follows on the question of anticipation:

The phenols are among the most widely used chemicals both pharmaceutically and generally. The mixtures of phenols with various other chemicals have been exhaustively investigated. Hrynakowski is a report of such an investigation. The reference shows phase diagrams giving the freezing points of various mixtures of phenols with acetanilid and acetamide. It is considered that the reference is a fair disclosure of the two ingredients in applicant's proportions. The area above the curve is homogeneous and liquid. The curve shows mixtures which lie above the curve at room temperatures. • • • The applicant in Example 17 disclosed as a specific example the mixture of 9 parts of phenol to 1 of acetamide. These proportions were actually prepared in the reference.

The Wood-La Wall reference shows that mixtures of phenols with acetanilid form mixtures which liquefy. Applicant's claim is limited to homogeneous. It is conceded that whether or not the mixture is homogeneous depends upon the relative proportions, but the eutectic ["easily melting"] proportions are homogeneous above and below the melting point.

In the course of its decision approving that of the Primary Examiner the Board said:

The Wood-La Wall reference, being the 22nd Edition of the United States Dispensatory, states that eutectic mixtures which liquefy are formed when acetanilid is triturated with phenol, thymol or resorcinol. It will be obvious that when such an eutectic mixture of acetanilid and phenol is produced, it will provide an anticipation of claim 651 which is the most specific of the claims on appeal. Appellant asserts that this reference does not disclose the ratio required to produce the eutectic mixture. However, ***the claims on appeal are not restricted as to ratios.*** The Hrynakowski et al. reference describes physical mixtures of various phenolic compounds including the three cresols with certain nitrogenous polar materials including acetanilid. The graphs on page 541 show that eutectic mixtures of very low melting point are obtained by mixing the cresol with acetanilid, the cresol constituting about 25 per cent of the mixture. Each of these eutectic mixtures provides an anticipation of the composition of claim 651. Since claims 649 and 650 are broader than, but inclusive of, the subject matter of claim 651, it is apparent that each of the two references discussed above likewise provides an anticipation of the compositions of these claims. [Italics supplied.]

Appellant asserts that the references are insufficient to anticipate the claims because they fail to describe the compositions as suitable germicides, wherein the causticity of the phenol has been reduced. There is no suggestion in the references that the compositions therein disclosed are suitable as germicides. The difficulty with this contention is that the compositions included within the terms of the claims are old and to be patentable the subject matter of the claims must be novel.

Appellant's brief devotes several pages to a discussion of the Hrynakowski and Wood-La Wall articles in disparagement of their value as references, but *it is specifically conceded* that 6 out of 30, or 20 per cent, of Hrynakowski's mixtures used in his experiments "were homogeneous and liquid at room temperature, and so *would come within the terms of appellant's claims.*" [Italics supplied.]

Respecting this concession appellant's comment is:

• • • Hrynakowski, however, gives no indication whatever that any one or all of his few mixtures, which were homogeneous at room temperature, had any significance for him different from that of the rest of his mixtures—namely, as experimental materials for freezing-point determinations. It certainly was no part of Hrynakowski's problem, for example, to make up a homogeneous mixture of a caustic phenol with acetamide or acetanilid which would remain free from segregation of its ingredients upon standing in a closed container at room temperature • • •; or which would be an effective germicide with little or no caustic action. Hrynakowski in short, was concerned only with studying the operation of natural laws in connection with a series of binary mixtures.

Appellant's brief quotes from the Wood-La Wall reference the statement to the effect that when acetanilid is triturated with phenol, thymol, resorcinol, chloral hydrate, and many other organic drugs, it forms a eutectic mixture which liquefies, and comments as follows:

In view of the foregoing discussion of eutectic mixtures, it is evident that the term "a eutectic mixture" is used in Wood-La Wall not only loosely, but inaccurately; for there is not only no suggestion in the reference as to the specific proportions of acetanilid and phenol which, when

[1] It is noted that appellant quotes from *Gilman's Organic Chemistry—An Advanced Treatise*—excerpts "having to do with the application of electronic theory to organic chemistry," and he states that he bases his use of the terms "anionoid" and "cationoid" in the application upon the Lapworth-Robinson classification as set forth in Table XV of the *Gilman* text.

triturated together, will form the eutectic mixture thereof, but there is no suggestion as to the relative amount of acetanilid to be triturated with any one of the specific compounds named in the reference.

We may divert from the rejection based upon prior art long enough to direct attention to the fact that this brings forward a ground of indefiniteness similar to that alleged against appellant's claims in the second ground of rejection.

The brief says further:

It would require * * * extensive experimentation in order to determine the precise proportions of acetanilid and carbolic acid needed to form the eutectic mixture thereof. For this reason, as well as others to be discussed hereinafter in the Argument, appellant contends that the Wood-La Wall reference does not constitute a valid anticipation of his claims.

It is noted that the Primary Examiner expressed substantially the same thought with respect to appellant's claims 649 and 650 in his discussion of the second ground of rejection to which we hereinafter again refer.

In appealing to us appellant assigned error in thirty-one reasons of appeal. Allegations of errors 1–10, 17–20, and 23–25 relate to the question of anticipation—the first ground of rejection. Allegations 11–16, 21, 22, and 26–31 relate to the question of indefiniteness, breadth, and functionalism—the second ground of rejection. In his brief appellant has arranged his argument in numbered paragraphs and lettered sub-paragraphs in a methodical manner and has cited court decisions in connection with each paragraph and sub-paragraph.

The citations are made, of course, upon the supposition or theory that the decisions support appellant's contentions and reasoning. Unhappily for appellant, this theory cannot be sustained. The applicable law is dependent on the facts, and the facts which are conceded by appellant render practically all of the many authorities which he cites irrelevant to his case.

The right to obtain a patent in the United States is predicated upon a provision in the Constitution which reads:

The Congress shall have power * * * to promote the progress of science and useful arts, by securing for limited times to * * * inventors the exclusive right to their * * * discoveries.

This is not a self-executing provision. Action by the Congress was requisite and the First Congress acted in 1790. Sec. 1, 1 Stat. 109, Act of April 10, 1790.

The original act has been amended frequently and now there is embodied in 35 U. S. C. 31; R. S. 4886 the following phraseology pertinent to the instant case:

Any person who has invented or discovered any new * * * composition of matter, or any new and useful improvements thereof * * * not known or used by others in this country, before his invention or discovery thereof, and *not * * * described in any printed publication in this or any foreign country*, before his invention or discovery thereof * * * may * * * obtain a patent therefor. [Italics supplied.]

Appellant developed a composition which he alleges is new and useful.

We assume it to have been an inventive act—that is, an act which required the exercise of the inventive faculty—but when he made application for a patent the researchers in the Patent Office, in the performance of duties established by Congress, found that a composition such as his had been described in printed publications in this country and in a foreign country—Poland—at least six years before his application was filed, and he has made no effort, so far as the record shows, to establish that his inventive act took place prior to the issuance of such publication.

[1] Appellant's good faith is not questioned in the slightest. It may be assumed that he personally never saw or heard of the published articles, and that his many experiments conducted with many kinds of materials in his search for "nitrogenous polar materials, predominantly anionoid in molecular structure," and possessing the characteristics described in his claims, were entirely original so far as he was concerned, but that does not alter the plain and unambiguous language of the statute which, in effect, inhibits the granting of a patent for a composition which has been described in printed publications before the invention or discovery was made by the patent applicant.

Appellant urges that "a claimed invention is not anticipated by a prior publication if the latter does not disclose substantially the same invention as having been known *or* used previously by others." [Italics supplied.]

The statute does not require both knowledge *and* use. "Known" and "used" are in the alternative in the statute. Obviously, if the composition described in the publication "would come within the terms of appellant's claims" as he concedes in his brief the Hrynakowski composition would, it must be "substantially the same invention."

Appellant urges that "A composition of matter may be intrinsically old in the sense that somebody had previously made the same composition; and yet it will be new in the sense of section 4886, R. S., unless it previously has been made accessible to the public as a perfected invention—either by use, *by publication*, or by patent." [Italics supplied.]

Without agreeing to the correctness of all the implications involved in this contention, we may point out that the composition was made accessible to the public by publication.

Another contention is to the effect that neither of the references "discloses any inventive concept—much less the concept embodied in each of the appealed claims," and that this "negates a reduction to practice of each of the compositions disclosed therein."

[2] The references disclose the composition, and it is immaterial whether it resulted from an inventive concept, an accidental discovery, or merely from skill in the art. The publications indicate that the results named therein were arrived at by experimentation. Appellant made his discoveries by experimentation. [3] When the discoveries were described in the publications the terms of the statute became applicable and the fact, as stated in another part of appellant's brief, that "neither publication discloses or even suggests any tests for demonstrating the utility [i. e., reduction to practice] of a single one of said compositions in practical affairs" is not material. If appellant's composition has utility, the same compositions, as described in the references, must have utility. This is not an interference proceeding involving questions relating to priority.

Appellant presents the contention as to lack of any showing in the references of utility and dwells upon the matter of reduction to practice in a number of sub-paragraphs. Reiteration of the same thought in various forms of phraseology adds no strength to a contention, and it is unnecessary for us to follow and respond to all the sub-paragraphs seriatim.

Appellant's brief asserts that each of the publications relied on "furnishes nothing more than a starting point for further experiments and research," and in another sub-paragraph alleges that "The record is devoid of any showing that the Hrynakowski and Wood-La Wall publications amount to anything more than accounts of abandoned experiments."

This indicates that appellant regards a publication as being somewhat akin to a patent application. The researchers in the references did not seek patents. They gave the public what they discovered as a result of experiments. The results they obtained meet appellant's claims. To the extent that they donated their discoveries to the public and sought no patents on them, they may be said to have abandoned them, but that is not a kind of abandonment which inures to appellant's benefit. It was an abandonment to the public. The public became the possessor of the discoveries with freedom to use or not use such discoveries as it (the public) elected.

It surely is settled definitely, as a principle of patent law, that a new use for an old composition does not render claims for such use patentable. *In re Thuau*, 30 CCPA (Patents) 979, 135 F.2d 344, 57 USPQ 324, 554 O. G. 14, and the several cases therein cited.

Appellant, however, insists here, in substance, that the researchers did not recite in the references nor disclose *any* use of the composition which they developed and that he discovered a use for the composition which he developed. He, therefore, urges that this case is distinguishable from the *Thuau* case, supra, and like cases.

[4] We are unable to agree that there is any patentable distinction between discovering *a* use and discovering a *new* use for a chemical product developed by experimentation. The patent which appellant seeks is for a composition of matter *as a composition*; not for the concept of using the composition. See *In re Haller*, 34 CCPA (Patents) 1003, 161 F.2d 280, 73 USPQ 403, 603 O. G. 529. In the case of *In re Crosley et al.*, 34 CCPA (Patents) 882, 159 F.2d 735, 72 USPQ 499, 600 O. G. 172, we declared, "this court is committed to the doctrine that where a product is clearly disclosed in a publication, * * * the disclosure of the composition is sufficient to anticipate a claim therefor," citing *In re Marden et al.*, 18 CCPA (Patents) 1119, 48 F.2d 428, 8 USPQ 515, 409 O. G. 561; and *In re Von Bramer et al.*, 29 CCPA (Patents) 1018, 1024, 127 F.2d 149, 53 USPQ 345, 542 O. G. 183. Another case, the reasoning in which we regard as quite pertinent here, is that of *In re Stoll et al.*, 34 CCPA (Patents) 1058, 161 F.2d 241, 73 USPQ 440, 603 O. G. 378.

The brief of the Solicitor for the Patent Office before us in the instant case, after stating that the holding in the *Thuau* case, supra, was not a new doctrine, as this court pointed out in the case of *In re Benner et al.*, 36 CCPA (Patents) 1081, 174 F.2d 938, 82 USPQ 49, 625 O. G. 5, referred to the case of *Old Town Ribbon and Carbon Co., Inc.* v. *Columbia Ribbon and Carbon Mfg. Co., Inc.*, 159 F.2d 379, 72 USPQ 57, wherein Judge Learned Hand speaking for the United States Circuit Court of Appeals, Second Circuit, used the following language, deemed by the Solicitor to be apposite the Thuau doctrine:

* * * since 1793, unless a patent disclosed a "new and useful art," a new "machine," a new "manufacture," or a new "composition of matter," it has not been a valid patent. If it be merely for a new employment of some "machine, manufacture or composition of matter" already known, it makes not the slightest difference how beneficial to the public the new function may be, how long a search it may end, how many may have shared that search, or how high a reach of imaginative ingenuity the solution may have demanded. All the mental factors which determine invention may have been present to the highest degree, but it will not be patentable because it will not be within the terms of the statute. This is the doctrine that a "new use" can never be patentable.

In view of our conclusion that the rejection of all the claims upon the basis of prior art must be affirmed, we refrain from any further reference to the rejection of claims 649 and 650 as not properly defining the alleged invention.

[5] For the reasons stated the decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

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2,519,242. (See 2,339,487.)

2,599,168, S. Feldman, Pleated fabric and garment made of same, suit for declaratory judgment filed July 16, 1952, D. C., S. D. N. Y., Doc. 77/178, *Rosanna Knitted Sportswear, Inc.* v. *Lass O'Scotland, Ltd., et al.*

Re. 23,282, E. C. Thomson, Electrode system, filed July 16, 1952, D. C., S. D. N. Y., Doc. 77/187, *Photoswitch, Inc.* v. *Pilot Marine Corp.*

Re. 23,447, V. H. Pruitt, Watering device, filed July 16, 1952, D. C. Md. (Baltimore), Doc. 5922, *Fox Products Co.* v. *N. F. Toadvine et al.*

Des. 164,765, J. Despres, Combined perfume bottle and holder therefor, D. C., S. D. N. Y., Doc. 71/117, *Coty, Inc.* v. *Bourjois, Inc.* Voluntary dismissal Jan. 11, 1952.

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 85,539, C. Zeiss, Lenses, prisms, etc., filed July 17, 1952, D. C., S. D. N. Y., Doc. 77/208, *Panatech Corp.* v. *C. Zeiss et al.*

T. M. 148,909, Oelbaum Bros. & Bauer, Boy's shirts and blouses; T. M. 433,466, Shrage & Pines, Sportswear, filed July 14, 1952, D. C., S. D. N. Y., Doc. 77/159, Doc. 77/160, Doc. 77/161, Doc. 77/162, *Shrage Co., Inc.* v. *Kaylon, Inc.*

T. M. 234,447, Logan Co., Ornamental wire and iron works, filed July 18, 1952, D. C. N. J. (Newark), Doc. 664/52, *International Standard Electric Corp.* v. *Standard Electronics Corp.*

T. M. 304,644, Willapoint Oysters, Inc., Canned raw oysters and canned cooked oysters, D. C. Wash (Seattle), Doc. 2815, *Bay Point Oyster Farms* v. *Willapoint Oysters, Inc.* Trade-mark held valid, injunction; cause dismissed with prejudice July 11, 1952.

T. M. 334,168, St. George Textile Corp., Rayon and cotton piece goods, filed July 17, 1952, D. C., S. D. N. Y., Doc. 77/188, *St. George Textile Corp.* v. *Puritan Skirt & Dress Co.*

T. M. 372,500, Time, Inc., Weekly magazine and pamphlets; T. M. 380,316, same, Motion picture films, sound films, etc., filed July 15, 1952, D. C., S. D. N. Y., Doc. 77/167, *Time, Inc.* v. *Life Electronics Sales.*

T. M. 380,316. (See T. M. 372,500.)

T. M. 423,745, The Curtis Publishing Co., Periodical, D. C., S. D. N. Y., Doc. 74/153, *The Curtis Publishing Co.* v. *Star Publications, Inc.* Stipulation and order of discontinuance Apr. 11, 1952.

T. M. 433,466. (See T. M. 148,909.)

NOTICES

Removals From Register

Pursuant to the provisions of Rule 347 of the Rules of Practice of the United States Patent Office in Patent Cases, a letter was directed on July 25, 1952, to Mr. Ulric S. J. Dunbar, at 128 West Maple Street, York, Pennsylvania, the last post office address furnished by him to the Committee on Enrollment, in which inquiry was made as to whether he desired to have his name remain on the Register of Patent Attorneys. No reply to that letter was received within the period of 28 days therein set. Accordingly, the name of Ulric S. J. Dunbar (Reg. No. 11,518, dated February 8, 1921) is removed from the Register of Patent Attorneys.

THOMAS F. MURPHY,
Sept. 3, 1952. *Chairman, Committee on Enrollment.*

Pursuant to the provisions of Rule 347 of the Rules of Practice of the United States Patent Office in Patent Cases, a letter was directed on June 25, 1952, to Mr. Malcolm F. Gannett, at the Munsey Building, Washington 4, D. C., the last post office address furnished by him to the Committee on Enrollment, in which inquiry was made as to whether he desired to have his name remain on the Register of Patent Attorneys. No reply to that letter was received within the period of 30 days therein set. Accordingly, the name of Malcolm F. Gannett (Reg. No. 10,711, dated May 17, 1916) is removed from the Register of Patent Attorneys.

THOMAS F. MURPHY,
Sept. 3, 1952. *Chairman, Committee on Enrollment.*

Adjudicated Patent

(D. C. Mass.) Carlson Patent No. 2,510,939, for a ruler construction. Claims 2, 6 to 8, and 10 to 17, *Held* invalid and claims 2 and 16, *Held* not infringed. *Carlson & Sullivan, Inc.* v. *Bigelow & Dowse Company et al.*, 105 F. Supp. 531; 93 USPQ 289.

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When requesting photostatic copies of publications in possession of the Patent Office, complete information should be given; namely, the title, author, date of publication, page, and exact portion to be photostated.

Classification Order No. 134

The following transfer is hereby directed to take effect on Monday, September 15, 1952:

Class 134, Cleaning and Liquid Contact With Solids, from Division 27 to Division 11.

M. C. ROSA,
Sept. 5, 1952. *Executive Examiner.*

Disclaimers

2,473,864.—*Clarence J. Coberly*, Los Angeles, Calif. HEAVY OIL AND SAND PUMP. Patent dated June 21, 1949. Disclaimer filed Sept. 3, 1952, by the assignee, *Dresser Equipment Co.*

Hereby enters this disclaimer to claims 6, 7, 8, 9, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, and 26 of said patent.

2,484,352.—*Glenn H. Miller*, Rochester, and *James A. Krumhansl*, Penfield, N. Y. PULSE LENGTH DISCRIMINATOR. Patent dated Oct. 11, 1949. Disclaimer filed Aug. 18, 1952, by the assignee, *Stromberg-Carlson Company.*

Hereby enters this disclaimer to claims 1 and 2 of said patent.

2,541,247.—*Donald L. Herr*, New York, N. Y. SWITCHING SYSTEM. Patent dated Feb. 13, 1951. Disclaimer filed Sept. 8, 1952, by the assignee, *Control Instrument Company, Inc.*

Hereby disclaims from claim 1 of said patent switching systems other than those in which the cam members are coupled to the control elements through mechanical coupling and in which the movements of the control elements to operative position are effected by mechanical force transmitted through such mechanical coupling from the respective cam members; and disclaims from claim 2 of said patent switching systems other than those in which the light responsive electronic element is a single light responsive element as distinguished from a light responsive means comprising a plurality of light responsive elements, and the cams are mechanically coupled with the controlled elements respectively by mechanical couplings and the latter are moved to operative position by mechanical force transmitted from said cams through such mechanical couplings.

2,541,472.—*William B. Kendall* and *George D. Hill*, Rochester, N. Y. DIRECT POSITIVE EMULSION CONTAINING DESENSITIZING DYE. Patent dated Feb. 13, 1951. Disclaimer filed Aug. 26, 1952, by the assignee, *Eastman Kodak Company.*

Hereby enters this disclaimer to claims 4, 5, 11, and 12 of said patent, to that part of claim 1 of said patent which claims a direct positive photographic emulsion comprising a strongly fogged silver chloride emulsion containing a quinoline compound and its alkyl quaternary salts having at least one nitro group attached to a benzene nucleus, and to that part of claims 7 and 8 of said patent which claims the method of making a direct positive photographic emulsion comprising adding to the emulsion a quinoline compound and its alkyl quaternary salts having at least one nitro group attached to a benzene nucleus, all without in any way modifying the scope or affecting the validity of the remaining claims.

2,588,942.—*Conway L. Still*, Chester, S. C. CONVEYER SYSTEM FOR HANDLING PICKER LAPS. Patent dated Mar. 11, 1952. Disclaimer filed July 31, 1952, by the assignee, *The Springs Cotton Mills.*

Hereby enters this disclaimer to claim 1 of said patent.

2,604,582.—*Vernon D. Hauck*, Towson, *William L. W. Ogden*, Baltimore, and *James R. Cosby*, Towson, Md. ATMOSPHERIC SOUNDING APPARATUS. Patent dated July 22, 1952. Disclaimer filed Sept. 8, 1952, by the assignee, *Bendix Aviation Corporation.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 5, 6, 7, and 8 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,584,820. Double-Acting Hydraulic Jack. Patented Feb. 5, 1952. All-purpose double-acting jack has threaded sockets at each end to which can be connected rods or other elements to be operated upon by the jack. The jack has an outer movable cylinder with an expansible oil reservoir in the upper end and an exterior pump on the side of the cylinder. The oil in the reservoir is maintained under pressure by a piston backed up by a spring. Telescoping parts disposed within the jack are adapted to be hydraulically extended or retracted, depending upon the direction to which a two-way valve has been turned. (Owner) Raymond J. Steinhoff, 501 West Adams Ave., Alhambra, Calif. Group 35—69. Reg. No. 49,180.

Pat. 2,470,384. Doll or Toy Figure With Encased Radio Apparatus. Patented May 17, 1949. Radio apparatus is encased in the figure of a doll seated in a chair. A vertically arranged case of elongated cross section is subdivided by a horizontal deck plate into upper and lower compartments with a tuning condenser, loud-speaker, and volume control arranged in the upper compartment. The lower compartment is subdivided by a vertical deck plate having sockets in which the radio tubes are inserted. Control shafts coupled to the tuning condenser and volume control project outwardly through opposite sides of the case. Articulated arms of the doll are coupled to the control shafts and serve as handles to adjust the shafts. A hollow doll head having openings in the upper portion is mounted on top of the case directly above the upwardly turned mouth of the loud-speaker. The head serves as a sound box. (Owner) Walter J. Waldron, 460 West 3d St., Pomona, Calif. Groups 36—61; 39—41—42. Reg. No. 49,181.

Pat. 2,560,015. Control Operating Device. Patented July 10, 1951. This elastic frictional load counter-balancing device may be applied to any instrument or device containing components which have to be adjusted by a loaded lever or handle or by any other loaded device. It is adjustable to counter-balance different loads up to a certain predetermined limit. The device is particularly suitable for coupling the arms of the radio doll of the above patent (No. 2,470,384) to the control shafts to prevent the arms from moving under their own weight and changing the adjustment of the shafts. (Owner) Walter J. Waldron, 460 West 3d St., Pomona, Calif. Groups 35—69; 36—61; 39—41—42. Reg. No. 49,182.

Pat. 2,506,928. Piecrust Shaper. Patented May 9, 1950. Shaper having a wire screen in the form of a pie-pan may be fastened over the piecrust in a pan to shape the crust and allow observation of it while baking. The edges of screen are held by rivets between two parallel annular rims, which rest on pan rim. The lower rim has spaced projections depending from the under surface to indent edge of crust. The shaper is detachably fastened over pan by opposed latches. Each latch comprises an ear on upper rim, to which is hinged an arm, bent to fit over the pan rim and held in position by a suitable spring. (Owner) Augusta A. Klingbiel, P. O. Box 5174, Los Angeles, Calif. Groups 33—49; 34—41—99; 40. Reg. No. 49,183.

Pat. 2,580,074. Electric-Light Service Indicator. Patented Dec. 25, 1951. A small portable table-service indicator for restaurants is actuated by a customer to indicate that service is desired. A stand has a base in the form of an ash tray with upwardly extending standards pivotally supporting a cylindrical casing. A battery is slidably positioned in a longitudinal bore in the casing. A light bulb held by a contact arm extended from the battery is spaced from a contact band in the bore. When a customer desires service, he inverts the casing, causing the battery to slide toward the contact band to complete the circuit to the light bulb, so that the light shows through a transparent shield at end of casing. (Owner) Jorge M. Cesar, Casa Budnik—Gral. Trevino Ote 219, Apartado 814, Monterrey, N. L., Mexico. Group 34—81. Reg. No. 49,184.

Pat. 2,555,089. Direct-Indirect Fluorescent Luminaire. Patented May 29, 1951. Totally enclosed luminaire is easily accessible for maintenance and repair without dismantling any of the closure elements. It includes a main supporting member and a translucent dust-proof lamp housing, comprising a fixed top closure section and separable bottom closure section. Electrical connections and lamp supports are confined within the area of the top closure section. Ballast disposed exteriorly above the top closure section is exposed on all sides to the atmosphere for the free circulation of cooling air. The lower closure section may be moved downwardly and then swung forwardly or rearwardly to fully open position and automatically retained in open position by spring means. Spare lamps for replacement purposes may be inserted in spring scroll-like coils on the inner side of the lower closure section. (Owner) William Hobart Keefer, 1012 Lexington Bldg., Baltimore 1, Md. Group 34—81. Reg. No. 49,185.

Pat. 2,583,191. Trailer Coupler. Patented Jan. 22, 1952. This invention relates to a coupler adapted to be readily connected to or disconnected from a trailer and towing vehicle. A vertical stub shaft is rotatably mounted in a housing on trailer frame. A tube is fixed to the lower end of the stub shaft at right angles to the axis thereof. The ends of the arms of a Y-shaped tracking element carrying a centering shell are pivotally connected by brackets to the axle of the towing vehicle. In operation, the vehicle is backed up aligning the center shell of the tracking unit with the tube on the stub shaft. An alignment sleeve is then inserted in tube and shell, and retaining bolts passed through registering transverse apertures in sleeve and shell. An end stop is then secured on an extended portion of the sleeve abutting the tube end. (Owner) Milton S. Voorhees, 908 Richmond Ave., Point Pleasant, N. J. Group 38—31—41. Reg. No. 49,186.

The following two patents are offered for licensing on reasonable terms by Orion S. Greeson, 436 Cherry St., Elizabeth 3, N. J.

Pat. 2,587,143. Multiple Switch Unit With Interdependent Switching Mechanisms Operating at Different Rates. Patented Feb. 26, 1952. This patent relates to an electrical switch which is designed for wide use in the electrical industry. Basic component is the switch unit which comprises a primary member and a secondary member. The primary member is driven by a short reciprocatory movement imparted manually, by mechanical means, or by an electromagnet. The primary member drives the secondary member through a motion-transmitting device which is so designed that the first stroke of the primary operates and locks the secondary in an operated position, and the second stroke releases the secondary. The units may be arranged in a series so that the secondary of the first unit acts as a primary to drive the second unit, which drives the third unit, and so on. Switching functions are accomplished by a changing combination of operated and released members. Since each member operates at one-half the rate of the preceding member, the change in combinations is analogous to the binary number system, and the number of combinations doubles with each added unit. Group 36—19. Reg. No. 49,187.

Pat. 2,587,144. Sequential Switch Release Mechanism. Patented Feb. 26, 1952. This patent relates to a release mechanism that may be used optionally with the above described switch (Pat. 2,587,143). It provides a means for instantly releasing any or all operated members at any point in a cycle of functioning. The switch, with or without the release mechanism, may be employed in lieu of relays in electrical circuits and, in general, each unit is equivalent to two relays. It may also be used advantageously as a simple manually or mechanically operated switch. Group 36—19. Reg. No. 49,188.

Pat. 2,588,761. Motor Vehicle Oil Level Indicator. Patented Mar. 11, 1952. Vacuum-actuated indicator for determining the level of oil in the crankcase of a motor vehicle engine from the instrument panel includes a button in combination with a red and a green light. When the button is pressed, the red light first shows, and, if the oil in the crankcase is substantially at the level required, the red light goes out and the green light shows. If the oil is low, the green light does not show and the red light remains on. The push button closes a switch to light the red light and open a vacuum connection. If there is sufficient oil in the crankcase, the vacuum draws oil into a float chamber through an elongated stem extended into the crankcase until a float closes a valve in top of the chamber. The vacuum is then applied to a diaphragm to actuate a switch to first break the circuit to the red light and then close the circuit to the green light. (Owner) James O. Raby, 409 South Road St., Elizabeth City, N. C. Groups 36—11; 38—31. Reg. No. 49,189.

Pat. 2,507,543. Pad Construction. Patented May 16, 1950. A shoulder pad for garments is designed to retain its shape after washing or dry-cleaning. A pair of triangular sections of different sizes are made of sponge rubber. The sections are superimposed, with the bases of the triangles in the same line. The sides of the smaller section are beveled, and the beveled edges are secured to the contacting portions of the larger section. Modification is shown. (Owner) Henry L. Burkitt, 19 West 44th St., New York 18, N. Y. Groups 22—12; 23—33; 30—52; 40. Reg. No. 49,190.

Pat. 2,593,016. Sanitary Smoking Pipe. Patented Apr. 15, 1952. Pipe is easily disassembled for cleaning. A passage through lower part of bowl receives a stem assembly, which is then closed by a plug. Stem comprises an external sleeve and separable internal sleeve parts held together by a pin and held against rotation by a projection on the pin seated in a recess in bowl. Aligned holes in external sleeve and upper half of internal sleeve admit smoke from bowl to interior of stem. A removable mouthpiece has two separable parts with aligning grooves forming smoke passage. (Co-owner) Albert Dressler, Jr., 80 Scott Ave., Elmira, N. Y. Groups 34—41; 39—81—96; 40. Reg. No. 49,191.

Pat. 2,574,713. Clamshell Excavator of the Carry Type. Patented Nov. 13, 1951. Excavating and transporting machine is adapted to cut and scoop a large quantity of earth during forward travel of the machine. A pair of oppositely disposed elongated arcuate clamshell bucket sections forming a scoop are positioned longitudinally of the machine. The clamshell sections may be lowered so that their lower cutting edges will slantingly engage the soil with respect to the longitudinal and transverse axes of the machine to rapidly cut earth and fill the scoop. As the scoop is lowered, forward travel of the machine causes the forward lower cutting edges of the scoop sections to dig into the soil to an extent commensurate with the amount of slack or lack of slack the operator permits with respect to cables connected to the forward ends of the scoop sections. When the scoop is loaded, it is closed and raised above the ground to retain the contents for and during transportation. (Owner) Jesse Sell. Correspondence to Dryden, Jensen & Dier, Federal Annex, Kearney, Nebr. Group 35—31. Reg. No. 49,192.

Pat. 2,449,833. Valve. Patented Sept. 21, 1948. High pressure micromatic fluid control valve may, for example, be used for controlling the flow of fuel oil to an oil burner. Angularly related slots in a cylindrical sleeve, and a rotary plug within the sleeve, coact to control the flow of fluid through the valve. The slot in the plug has a flared, generally V-shaped mouth at one side and a similar inverted V-shaped mouth at the other side. Rotation of the plug gradually uncovers one end of the slots in the sleeve and progressively uncovers more and more of the slots toward the other end until the full area of the slots registers with the plug slot for maximum flow straight through the slots. Pressure of fluid acting on the plug presses it against the remote wall of the sleeve with lapping effect to insure sealing tightness between the plug and sleeve at the discharge side of the valve. (Owner) J. Lester Barnes, 22 Garden St., Cambridge, Mass. Group 33—61—63. Reg. No. 49,193.

Des. 158,414. Quilt or the Like. Patented May 2, 1950. An ornamental design which, the owner states, may be used for quilts, blankets, bedspreads, linoleum, wallpaper, various textiles, and plastics, and by pattern companies. (Owner) Elsie L. Smith, 62 Turner Ave., Riverside 15, R. I. Groups 22 — 11 — 21 — 49 — 51 — 63; 23—93; 26—93; 39—81; 40. Reg. No. 49,194.

Royalty-Free Patents

E. I. du Pont de Nemours and Company hereby grants a free, irrevocable, and unlimited license to the Government and the People of the United States of America under the following U. S. Letters Patent and any reissue thereof. The term "People" is to be understood to include individuals, firms, corporations, and other business organizations and institutions, whether operated for profit or not. These patents were previously registered as available for licensing on reasonable terms, and abstracts were published in the OFFICIAL GAZETTE, Feb. 1 and 8, 1949; Mar. 7 and Oct. 3, 1950. They are hereby removed from that category in view of the free license now granted.

Groups 22 — 23 — 33 — 35 — 41 — 51 — 52—53—54; 27 — 71; 28—11—12—51—81—83—89—93; 31 — 14; 39—53.

Pat. 2,035,518. Process for Coloring Materials. Patented Mar. 31, 1936. Solution for developing ice color printings and dyeings comprising a hydrolyzing agent for converting derivatives of diazotized aromatic amines to diazo salts, the solution being saturated with an inert salt. Reg. No. 49,195.

Pat. 2,036,438. Cleaning, Wetting, and Emulsifying Composition. Patented Apr. 7, 1936. Washing, cleaning, wetting, and emulsifying agent comprising a water soluble soap and 2,2-pentamethylene-4-oxymethyl-dihydrodioxol, 2,2-methyl-pentamethylene-4-oxymethyl-dihydrodioxol, or 2,2-dimethylpentamethylene-4-oxymethyl-dihydro-dioxol. Reg. No. 49,196.

Pat. 2,046,885. Textile Material. Patented July 7, 1936. Textile materials sized with alkyl alkacrylate polymers. Reg. No. 49,197.

Pat. 2,056,114. Method of Finishing Fibrous Material. Patented Sept. 29, 1936. Treatment of fibrous materials or wood and metal surfaces to produce a smooth softer finish by applying a composition containing cyclic alcohol esters of fatty acids and other high molecular weight acids. Suitable esters are borneyl and fenchyl esters of coconnut oil and palmkernel oil fatty acids, terpineol ester of naphthenic acids, cyclohexyl ester of montanic acid. Reg. No. 49,198.

Pat. 2,069,215. Printing Process and Composition Therefor. Patented Feb. 2, 1937. Process of printing textile fibers with vat dyes by applying the dye to the fiber in the presence of an alkali-soluble salt of a branched-chain aliphatic carboxylic acid containing not less than 6 and not more than 12 carbon atoms. Reg. No. 49,199.

Pat. 2,070,467. Printing Composition and Process. Patented Feb. 9, 1937. Printing paste comprising a dispersion of a white, water-insoluble organic pigment which is an organic ether containing more than one closed chain connected by an ether linkage or S, Se, Te, or NH analogues thereof, e. g., ethylene glycol di-β-naphthyl ether. Reg. No. 49,200.

Pat. 2,074,031. Continuous Dyeing Process. Patented Mar. 16, 1937. Cotton and regenerated cellulose are dyed by passing the material with a diazotizable amine through a diazotizing bath at about 140° F. and then through a couple bath. Reg. No. 49,201.

Pat. 2,079,788. Process and Composition for Printing Textile Fiber. Patented May 11, 1937. Printing composition comprising a vat dye and a water soluble alcohol sulfate of 6–12 C atoms so arranged that the radical next to the sulfate group does not form a straight chain of more than 6 CH_2 groups. Reg. No. 49,202.

Pat. 2,097,754. Stencil Sheet. Patented Nov. 2, 1937. Stencil sheet comprising an ink permeable base sheet coated with plasticizer and methyl methacrylate. Reg. No. 49,203.

Pat. 2,107,159. Improved Coloring Material. Patented Feb. 1, 1938. Producing water-insoluble pigment by mixing two aqueous solutions which react without oxidation to form the pigment, one solution containing a water soluble sulfate of an acetylated unsaturated normal primary alcohol of 12–18 C atoms, both solutions being free from emulsified oils. Reg. No. 49,204.

Pat. 2,112,764. Insoluble Azo Compounds. Patented Mar. 29, 1938. A textile fabric dyed with the coupling product of a diazotized aniline, e. g., 4-benzo-trifluor-aniline, and a non-substantive acetoacetyl anilide. Reg. No. 49,205.

Pat. 2,135,964. Azo Dyestuffs and Fiber Dyed Therewith. Patented Nov. 8, 1938. Azo dye obtained by coupling a diazotized arylamine to an arylazo-acylaminonaphthol in which the acylamino and the arylazo groups are on one benzene ring of the naphthalene nucleus and the OH on the other ring. Reg. No. 49,206.

Pat. 2,160,882. Process of Making Azo Dyes. Patented June 6, 1939. Process of diazotizing a primary arylamine, admixing sulfamic acid with the diazotized amine, and coupling the diazotized amine with an azo coupling component. Reg. No. 49,207.

Pat. 2,173,824. Composition for Printing Textile Fibers. Patented Sept. 19, 1939. Printing composition containing a vat dye, benzyl alcohol, and at least one textile assistant selected from Turkey red oil and water-soluble sulfates of 6 to 12 C aliphatic alcohols. Reg. No. 49,208.

Pat. 2,174,005. Vat Color Printing Paste. Patented Sept. 26, 1939. Use of acetaldol in vat printing pastes. Reg. No. 49,209.

Pat. 2,174,486. Textile Printing Pastes Containing Penetrating Agents and Processes of Printing Therewith. Patented Sept. 26, 1939. Printing composition containing a penetrating agent, RXA, R=hydrocarbon or benzthiazole joined to X by an acyclic C atom, X=O or S, and A=organic or inorganic acidyl radical, and R or A may contain substituents. Reg. No. 49,210.

Pat. 2,189,807. Washing of Discharge Prints. Patented Feb. 13, 1940. Process for coloring a fabric with a water-soluble azo dye, discharging selected portions, and scouring with an aqueous alkaline solution of a long chain aliphatic hydrocarbon sulfate or a higher hydrocarbon substituted betaine derivative. Reg. No. 49,211.

Pat. 2,220,129. Dyeing of Synthetic Linear Polyamide Fibers. Patented Nov. 5, 1940. Process for leveling out colors on synthetic linear polyamide fibers dyed with water-insoluble dyes of the cellulose acetate dye class which comprises heating the dyed fibers in an aqueous solution of a dispersing agent at temperatures of from 180° to 200° F. Reg. No. 49,212.

Pat. 2,233,676. Softening and Finishing of Textile Materials and Compositions Therefor. Patented Mar. 4, 1941. A textile-treating solution for softening and finishing comprising an aqueous solution containing a paraffin derivative soap obtained by reacting a nongaseous paraffin hydrocarbon with sulfur dioxide and chlorine and hydrolyzing the resulting product with a strong inorganic alkaline liquid. Reg. No. 49,213.

Pat. 2,287,696. Carbonization of Cellulose Esters. Patented June 23, 1942. Selective destruction of the cellulose ester component of a mixed fabric by treating with a polyhydroxy phenol, e. g., resorcinol. Reg. No. 49,214.

Pat. 2,291,052. Printing Cellulose Acetate. Patented July 28, 1942. Printing cellulose acetate with acid and direct dyes in an aqueous medium containing zinc thiocyanate and a hydrotropical agent, e. g., urea, thiourea, soluble metal salts of aliphatic sulfuric acids, aliphatic and aromatic sulfonic acids having up to 12 C atoms, of thioglycolic acids, and of dicarboxylic acid mono esters. Reg. No. 49,215.

Pat. 2,303,477. Tanning and Dyeing Leather. Patented Dec. 1, 1942. Tanning a pickled skin incompletely in a chrome tanning bath containing a masking agent, dyeing the skin with an acid dye, completing the tanning with a chrome tanning bath containing a masking agent, and fatliquoring. Reg. No. 49,216.

Pat. 2,321,501. Printing Viscose Process Rayon With Acid and Direct Colors. Patented June 8, 1943. A printing paste comprising a direct or acid color, a hydrous thickening agent and as an assistant, an alkali metal salt of benzyl- or a 1 to 12 C alkyl-thioglycolic acid. Reg. No. 49,217.

Pat. 2,327,160. Treatment of Textile Fiber. Patented Aug. 17, 1943. Production of a water-repellent textile fabric by treatment of the fiber with a compound of the formula: A—CH_2—Z. A—an organic radical free from water-solubilizing groups containing an alkyl radical and being attached to the CH_2 through O, S or N. Z—a radical containing water-solubilizing groups, e. g., stearamidomethylpyridinium halide. Reg. No. 49,218.

Pat. 2,353,411. Textile Printing Composition. Patented July 11, 1944. A printing composition for textile fabric, comprising a thickening agent, water, an unmetallized mordant-acid azo dye, a water-soluble compound of a metal whose atomic weight is not less than 52 and not greater than 64, and triethanolamine in quantity corresponding to between 5 and 15%. Reg. No. 49,219.

Pat. 2,361,270. Treatment of Textile Fiber With Water Repellency Agents. Patented Oct. 24, 1944. Simultaneously treating textiles with water-repellency agents and vinyl polymers or copolymers. Reg. No. 49,220.

Pat. 2,387,510. Unified Process for Treating Wool. Patented Oct. 23, 1945. A process which comprises the steps of impregnating the loose wool with a substantially neutral and soap-free composite reagent consisting chiefly of saturated petroleum hydrocarbons and the sulfonates of saturated petroleum hydrocarbons, subjecting the wool to carding, spinning, and weaving; adding water to the fabric and fulfilling the same under substantially neutral conditions without soap, and finally scouring. Reg. No. 49,221.

Pat. 2,391,613. Process of Coloring Wood. Patented Dec. 25, 1945. Process of coloring wood throughout interior portions thereof by immersing it in an alkaline solution not above a pH of 11.4 and containing a stabilized diazotized aryl amine and an azo pigment coupling component which is devoid of solubilizing groups, heating to 63°–93° C., applying pressure, and thereafter impregnating the interior portions of the wood with an acid, until a colored substance is formed. Reg. No. 49,222.

Pat. 2,391,942. Method of Treating Cellulosic Textile Materials. Patented Jan. 1, 1946. A process to render the materials receptive to chrome and acid dyes while retaining their affinity for direct dyes which comprises impregnating the material with an aqueous solution of pH between 1.6 and 3.0 and which contains from 3 to 15% by weight of formaldehyde, from 0.05 to 2% of an acidic catalyst, and from 3 to 30% of a water-soluble salt of a water-soluble tertiary hydroxy-alkylamine, substantially drying the impregnated material, and thereafter heating the same at a temperature of 70° C. to 200° C. Reg. No. 49,223.

Pat. 2,416,884. Methylated Methylolmelamine as a Fixing Agent for Dyed Cotton Textiles. Patented Mar. 4, 1947. A process of treating cotton textile material, dyed with blue dye Color Index No. 406, by heating the dyed material with monomeric N,N',N''-tris-(methoxy-methyl) melamine. Reg. No. 49,224.

Pat. 2,480,775. Dyeing Nylon Hosiery. Patented Aug. 30, 1949. Process of dyeing nylon hosiery by treating nylon in an aqueous bath containing from 5 to 10% of tannic acid and thereafter heating the nylon in an aqueous dispersion of the dye. Reg. No. 49,225.

United States Government Owned Patents

The following 3 patents (granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757) are the property of the United States of America, as represented by the Secretary of the Interior, by virtue of assignments from the inventors, Julian Feldman and Milton Orchin (Pat. 2,583,554), Irving Wender and Milton Orchin (Pat. 2,587,671), and Theodore W. Stringfield (Pat. 2,588,427). Non-exclusive and royalty-free licenses are available. Applications for licenses should be directed to the Solicitor, U. S. Department of the Interior, Washington 25, D. C.

Pat. 2,583,554. Method for the Separation of α-Methyl Naphthalene From β-Methyl Naphthalene by Azeotropic Distillation. Patented Jan. 29, 1952. Method for separating α-methyl naphthalene from β-methyl naphthalene consists of adding an entrainer comprising undecanol to a mixture containing these isomers, and distilling the resultant mixture at sub-atmospheric pressure selected so that the undecanol forms a dilute azeotrope with β-methyl naphthalene but virtually no azeotrope with α-methyl naphthalene. After initial separation of the isomers, the entrainer itself may be removed from admixture with the isomers by one or more distillations at pressures different from that employed in the original distillation. Group 28—89. Reg. No. 49,226.

Pat. 2,587,671. Reduction of Oxygenated Thiophene Compounds. Patented Mar. 4, 1952. Provides a method for reducing to the completely hydrogenated state the oxygen-containing group in thiophene aldehydes, thiophene ketones, and thenyl alcohols, wherein the oxygen atom of the oxygen-containing group is attached to a carbon atom α to the thiophene nucleus. The method comprises reacting such compounds with hydrogen in the presence of a carbonyl of cobalt or iron at an elevated temperature and pressure while maintaining a concentration of carbon monoxide in the reaction zone sufficient to prevent decomposition of the metal carbonyl catalyst. Group 28—89. Reg. No. 49,227.

Pat. 2,588,427. Condenser Charge Regulation. Patented Mar. 11, 1952. Electrical circuit for storing measurable quantities of energy in a condenser includes an amplifying tube, a diode, and associated means for delaying the leakage discharge of the condenser. Group 36—19. Reg. No. 49,228.

Dedicated Patent

By an instrument recorded in the U. S. Patent Office Richard Couchman and Aluminum Company of America formally and jointly dedicate the following patent to the people of the United States of America, for public use forever.

Pat. 2,597,706. Lubricated Electrical Conduit. Patented May 20, 1952. Tubular aluminum alloy conduit for electrical installations to house insulated conductors is provided with a lubricating film on the interior surface so that fish tapes and insulated conductors may be threaded and pulled through the conduit without sticking. The lubricating film is hard and tenacious and includes a fatty acid responding to the general formula $C_nH_{2n}O_2$, where n is greater than 10. Group 36—11.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 30, 1952

[VOL. 662. No. 5]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 501,459. Keil Lock Co., Inc., Charlestown, N. H. Filed May 4, 1946. Under 10-year proviso.

KEIL

Applicant owns Registration No. 26,386.

For Builder's Hardware—Namely, Latches for Windows and Parts Thereof; Latches for Doors and Parts Thereof; Escutcheons, Ornamental Trim for Locks.

Claims use since 1876.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 520,711. Samuel M. Kipp, Pasadena, Calif. Filed Apr. 15, 1947.

VIAIR

For Hydropneumatic Accumulators and Parts Thereof, and Pneumatic Tools—Namely, Pneumatic Hammers and Parts Thereof.

Claims use since Dec. 10, 1946.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 575,927. John A. Riffle, doing business as John Riffle Hatcheries, Shenandoah, Iowa. Filed Mar. 23, 1949.



The word "Farms," the pictorial representation of the rooster, and the pictorial representation of the map of the United States are disclaimed.

For Baby Chicks.

Claims use since Sept. 1, 1933.

Ser. No. 610,320. Imperial Chemical Industries Limited, London and Millbank, London, England. Filed Feb. 20, 1951.

ICI

Applicant claims ownership of British Registrations Nos. 507,717, 507,720, 507,739, and 507,750, all dated Nov. 12, 1929.

For Synthetic Fibres, Bitumen, Synthetic Fur, Plastics in the Form of Shaped Pieces, Not Being Finished Articles, Rods, Tubes, Blocks, Shaped Pieces; Graphite, Chlorinated Rubber and Synthetic Rubber, Silicon Carbide, Fuller's Earth, and Limestone.

Ser. No. 616,508. Owens-Corning Fiberglas Corporation, Toledo, Ohio. Filed July 14, 1951.

AEROCOR

For Mats, Bats, and Sheets of Fibrous Glass.

Claims use since Apr. 14, 1949.

Ser. No. 623,160. O. M. Scott & Sons Company, Marysville, Ohio. Filed Jan. 3, 1952.



The representation of the growing grass is disclaimed.
For Grass Seed.
Claims use since Dec. 6, 1951.

Ser. No. 623,224. The Wickes Corporation, Saginaw, Mich. Filed Jan. 4, 1952.

MEXITE BRIQUETTES

The word "Briquettes" is disclaimed. Applicant claims ownership of Registrations Nos. 54,647, 59,505, and others.
For Graphitic Carbon in Compact Form.
Claims use since Jan. 30, 1942.

CLASS 2

RECEPTACLES

Ser. No. 572,470. Vamoos Products, Inc., Chicago, Ill. Filed Jan. 19, 1949.

AUTOMIZER

For Vaporizing, Atomizing Container—Namely, a Metal Can Possessing a Pressure Actuated Valve.
Claims use since Oct. 4, 1948.

Ser. No. 588,615. American Air Filter Company, Inc., Louisville, Ky. Filed Dec. 1, 1949.

AAF

Applicant claims ownership of Registrations Nos. 384,924 and 389,686.
For Maintenance Tanks in the Form of Relatively Deep Pans Fully Open at the Top and Providing a Liquid Holding Chamber Within Which Viscous Unit Type Filters Are Cleaned by Washing With Hot Water or Steam and Then Recharged With a Coating of a Dust Catching Liquid by Immersion Therein.
Claims use since Aug. 14, 1934.

Ser. No. 609,584. The American Paper Goods Company, Kensington, Conn. Filed Feb. 3, 1951.

APG

Applicant claims ownership of Registration No. 80,968.
For Paper and Glassine Bags, Paper and Glassine Merchandise Envelopes, and Paper Drinking Cups.
Claims use since April 1950.

Ser. No. 610,582. Protex Products Company, Inc., Jersey City, N. J. Filed Feb. 27, 1951.

Compliment

For Garment Bags, Shoe Bags, Laundry Bags, Shelf Boxes, Hat Boxes, Clothing Bags, Shoe Boxes, Hat Bags, and Lingerie Bags Made of Synthetic Plastic Sheeting.
Claims use since September 1950.

Ser. No. 611,202. Truscon Steel Company, Youngstown, Ohio. Filed Mar. 12, 1951.

TRUSCON

Applicant claims ownership of Registrations Nos 126,795, 217,123, and others.
For Steel Boxes in the Nature of Material Handling Equipment Used on Skids, Platforms, Factory Trucks, or by Lifting Cranes; Bomb Crates; Telephone Boxes; and Pressed Steel Reels for Winding Wire, Hemp, and Cable.
Claims use since June 3, 1942.

Ser. No. 612,368. Dixie Cup Company, Easton, Pa. Filed Apr. 7, 1951.

Applicant claims ownership of Registrations Nos. 420,379 and 424,535.
For Paper Cups and Paper Cartons for Ice Cream, Foods, and Beverages.
Claims use since Mar. 1, 1950.

Ser. No. 615,563. Mealpack Corporation, Evanston, Ill. Filed June 22, 1951. (Sec. 2f.)



The lining on the drawing indicates the colors red and blue, but no claim to color is hereby made.
For Metallic Boxes for Serving and Transporting Prepared Foods.
Claims use since Feb. 18, 1943.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 608,316. Justin Klau, doing business as J. Klau Company, New York, N. Y. Filed Jan. 3, 1951.



The lining is for shading only.
For Wallets.
Claims use since Oct. 20, 1950.

Ser. No. 615,506. The Virginia Art Goods Studios, Inc., Lynchburg, Va. Filed June 21, 1951. (Sec. 2f.)

Slip Cover

Applicant claims ownership of Registration No. 316,170.
For Handbags, and Pocketbooks and Covers Therefor.
Claims use since March 1931.

Ser. No. 615,822. Charles Doppelt & Co., Inc., Chicago, Ill. Filed June 28, 1951. (Sec. 2f.)

TRIP-O-KIT

The word "Kit" is disclaimed. Applicant claims ownership of Registration No. 392,144.
For Luggage—Namely, Utility Cases.
Claims use since August 1936.

Ser. No. 619,414. Trip-Mode Manufacturing Co., New York, N. Y. Filed Sept. 29, 1951.

Trip-mode

For Vanity Cases, Hat Cases, Utility Cases, and Suitcases, and Pocketbooks.
Claims use since June 15, 1950.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 609,657. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Feb. 5, 1951.

RESINITE

For Coated Abrasives.
Claims use since Dec. 26, 1945.

Ser. No. 621,424. The S. O. S. Company, Chicago, Ill. Filed Nov. 19, 1951.

TUFFY

Applicant claims ownership of Registration No. 420,371.
For Cleaning and Scraping Pads for Pots, Pans, Dishes, and the Like.
Claims use since Nov. 1, 1944.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 600,931. Tru-Pine Company, Chicago, Ill. Filed July 19, 1950.

Sprayway

BUG-GO

The word "Bug" is disclaimed.
For Insecticides.
Claims use since August 1949 as to the mark shown; since Oct. 15, 1949, as to "Bug-Go"; and since January 1950 as to "Sprayway Bug-Go."

Ser. No. 603,103. Armour and Company, Chicago, Ill. Filed Sept. 2, 1950.

ARMOFOAM

Applicant claims ownership of Registration No. 434,826.
For Synthetic Resin Used for Producing Structural Foam.
Claims use since June 24, 1949.

Ser. No. 605,017. Falk & Company, Pittsburgh, Pa., assignor to Cargill, Incorporated, a corporation of Delaware. Filed Oct. 17, 1950.

FALKOSOY

For Soya Bean Oil.
Claims use since March 1948.

Ser. No. 605,018. Falk & Company, Pittsburgh, Pa., assignor to Cargill, Incorporated, a corporation of Delaware. Filed Oct. 17, 1950.

FALKOVAR

For Fish Oil.
Claims use since February 1927.

Ser. No. 610,403. Atlas Powder Company, Wilmington, Del. Filed Feb. 23, 1951.



Applicant claims ownership of Registrations Nos. 126,469, 283,332, and 369,698.
For Decolorizing-Carbon for Use in Decolorizing and Clarifying Materials, and Absorptive Carbons and Carbonaceous Materials Useful for Water Purification.
Claims use since Nov. 15, 1918.

Ser. No. 613,313. The Trendex Company, Memphis, Tenn. Filed Apr. 28, 1951.

ARSTRENE

Applicant claims ownership of Registration No. 542,368.
For Saturated and Hard Fatty Acids Derived From Animal and Vegetable Oils for Use in Industry as a Raw Material in Chemical Manufacture.
Claims use since Feb. 16, 1951.

Ser. No. 617,233. William Cooper & Nephews, Incorporated, Chicago, Ill. Filed Aug. 2, 1951. (Sec. 2f as to "Cooper.")

Cooper-Chlor #4

Applicant claims ownership of Registrations Nos. 513,490 and 517,841.
For Insecticides for Agricultural Use.
Claims use since June 1, 1949 as shown; and since in or about the year 1900.

Ser. No. 618,763. Scientific Oil Compounding Company, Inc., Chicago, Ill. Filed Sept. 13, 1951.

CUNIMENE

For Fungicidal Material for Agricultural, Plant and Textile Use.
Claims use since Aug. 13, 1951.

Ser. No. 619,164. Monsanto Chemical Company, St. Louis, Mo. Filed Sept. 24, 1951.

ULTRON

Applicant claims ownership of Registrations Nos. 501,147 and 543,575.
For Synthetic Resin Materials Whether in the Form of Powders, Granules, Emulsions, Dispersions, or Solutions for Use in the Industrial Arts and Further Manufacture.
Claims use since Feb. 25, 1947.

Ser. No. 620,746. René Schönefeld, The Hague, Netherlands. Filed Oct. 31, 1951.



The word "Incense" is disclaimed. Applicant claims ownership of Registration No. 519,286.
For Incense.
Claims use since Oct. 8, 1951; and since Oct. 8, 1951, in commerce between Netherlands and the United States.

Ser. No. 621,859. Blue Diamond Corporation, Los Angeles, Calif. Filed Nov. 30, 1951.

Sealcrete

For Liquid Admixture for Concrete Which Accelerates and Increases the Density of the Concrete.
Claims use since Oct. 1, 1927.

Ser. No. 622,448. Monsanto Chemical Company, St. Louis, Mo. Filed Dec. 13, 1951.

TILMER

For Synthetic Resin Materials in the Form of Powders, Granules, Emulsions, Dispersions, and Solutions.
Claims use since Nov. 23, 1951.

Ser. No. 623,399. Godfrey L. Cabot, Inc., Boston, Mass. Filed Jan. 10, 1952.



The drawing is lined for the color gray, however no claim to color is made. The word "Black" is disclaimed. Applicant claims ownership of Registrations Nos. 557,209 and 554,206.
For Carbon Black.
Claims use since Nov. 19, 1951.

Ser. No. 623,981. Pacific Moulded Products Co., Los Angeles, Calif. Filed Jan. 23, 1952.

SILON

For Thermo-Setting Elastomer.
Claims use since Oct. 8, 1951.

Ser. No. 625,355. Ilford, Limited, Ilford, England. Filed Feb. 21, 1952.

FORMALITH

Applicant claims ownership of British Registration No. 690,393, dated July 4, 1950.
For Photographic Chemicals.

Ser. No. 625,867. Reichhold Chemicals, Inc., Detroit, Mich. Filed Mar. 3, 1952.

FOUNDREZ

Applicant claims ownership of Registration No. 528,464.
For Phenolic Synthetic Resins.
Claims use since Feb. 7, 1952.

Ser. No. 629,606. Givaudan-Delawanna, Inc., New York, N. Y. Filed May 13, 1952.

GIVCO

For Liquid Blends of Odoriferous Materials of Natural and Synthetic Origin Intended To Simulate the Odors of Natural Essential Oils Such as Oil of Geranium, Oil of Patchouli and Oil of Bergamot; and Vanillin.
Claims use since Oct. 7, 1942.

CLASS 11
INKS AND INKING MATERIALS

Ser. No. 608,742. The Buckeye Ribbon & Carbon Co., Cleveland, Ohio. Filed Jan. 13, 1951.

Buckeye Bond

For Typewriter Ribbons.
Claims use since July 15, 1946.

Ser. No. 608,745. The Buckeye Ribbon & Carbon Co., Cleveland, Ohio. Filed Jan. 13, 1951.

SUPREME

For Typewriter Ribbons and Carbon Paper.
Claims use since July 15, 1900.

CLASS 12
CONSTRUCTION MATERIALS

Ser. No. 543,796. Curtis Companies Incorporated, Clinton, Iowa. Filed Dec. 9, 1947. (Sec. 2f.)

CURTIS WOODWORK

The word "Woodwork" is disclaimed. Applicant claims ownership of Registrations Nos. 229,010, 233,127, and others.
For Sashes, Doors, Blinds of the Shutter Type Having Stationary or Adjustable Slats, Stairways, Wooden Moldings, Wooden Frames for Doors and Windows, Structural Wooden Brackets, Wooden Bannisters, Wooden Columns and Newels, Porch Rails, Permanent Built-in Pedestals, Paneling, Flooring, Wooden Store Fronts, Complete Stairs, Stair Parts, Built-in Dining Room Alcoves, Built-in Breakfast Nooks, Built-in Mantels, Porch Columns, Porch Newels, Porch Brackets, Porch Balusters, Windows, Screen Doors, and Built-in Screen Windows, Door Frames and Window Frames, Entrance Frames, Interior and Exterior Moldings, Door and Window Trim.
Claims use since June 1913.

Ser. No. 576,135. Products Research Company, Glendale, Calif. Filed Mar. 26, 1949.



For Sealing Compositions, Cements, Putties, and Caulking Compounds in the Form of Spreadable Pastes Dispersions, Semi-Liquids and Liquids, Generally Containing Organic Copolymers and Condensation Polymers, for Use in Sealing and Cementing Joints, as a Sealant Between Metallic Members and Between Metallic Members and Glass and as a Sound Insulator.
Claims use since August 1947.

Ser. No. 576,260. The General Clay Products Company, Columbus, Ohio. Filed Mar. 29, 1949.

GENERAL

"BETTER BRICK BUILDS BETTER BUILDINGS"

The words "Better Brick Builds Better Buildings" are disclaimed. Applicant claims ownership of Registration No. 242,467.

For Glazed and Unglazed Tile—Namely, Back-Up Tile and Draintile, and Brick.

Claims use since Nov. 15, 1927.

Ser. No. 583,046. M and M Wood Working Company, Portland, Oreg. Filed Aug. 5, 1949.

Playwood

For Packaged Plywood Cut or Stencilled for Cutting To Produce Parts To Be Assembled as Children's Furniture.

Claims use since June 24, 1949.

Ser. No. 591,260. United States Gypsum Company, Chicago, Ill. Filed Jan. 21, 1950.

P-M-C

For Metal Casting Plaster.

Claims use since June 15, 1948.

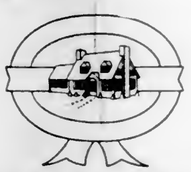
Ser. No. 597,669. The Davis Plywood Corporation, Cleveland, Ohio. Filed May 18, 1950. (Sec. 2f.)

BEST BORD

For Plywood Composed of Built-Up Wood, Consisting of Three or More Plies Bonded Together With Adhesives and Faced With Native or Fancy Wood Veneer and for Solid Wood, Used in Displays, Show Window Backgrounds, Store Fixtures, Wall Paneling, Standard Millwork, and Similar Items and in Furniture.

Claims use since Jan. 15, 1938.

Ser. No. 599,857. Air Seal Corporation, Flint, Mich. Filed June 28, 1950.



For Building Insulation Materials Relating To Heat, Moisture, and Sound, Comprising Fiber Glass, Rock Wool, Corrugated Cardboard and Pressed Fiber Sheet Materials, Asphalt and Aluminum Siding, Asphalt Roofs, Storm Doors and Storm Windows, Screens for Doors and Windows, and Ceramic, Metal, and Composition Tile Materials for Floors, Walls, and Ceilings.

Claims use since Nov. 13, 1947.

Ser. No. 601,392. The Dover Engineering Works Limited, Dover, Kent, England. Filed July 20, 1950.

ELKINGTON

"GATIC"

The component "Elkington" is disclaimed.

For Manhole Covers, Manhole Frames, Covers in Form of Floor Plates for Covering Ducts.

Claims use since 1928 in Great Britain as to the component "Elkington"; since 1935 in Great Britain as to "Elkington Gatic"; and since May 1, 1950, in commerce between the United States and the United Kingdom of Great Britain and Northern Ireland.

Ser. No. 601,707. The B & T Metals Company, Columbus, Ohio. Filed Aug. 4, 1950. (Sec. 2f with respect to the word "Chromedge.")

CHROMEDGE

Sink-Lok

The term "Sink-Lok" is disclaimed. Applicant claims ownership of Registration No. 353,083.

For Preformed Metallic Sink and Lavatory Frames Used as Liquid-Tight Moldings Between the Rims of Cabinet-Type Sinks and Lavatories and the Abutting Edges of Linoleum Coverings.

Claims use since July 14, 1950, as shown; and since May 1, 1936, as to "Chromedge."

Ser. No. 604,869. Superior Wood Products, Inc., Duluth, Minn. Filed Oct. 13, 1950.

SUPERWOOD

HARD BOARD

The words "Superwood" and "Hard Board" are disclaimed.

For Fiber Composition Board—Namely, Hardboard Used for Construction Purposes.

Claims use since Oct. 3, 1950.

Ser. No. 605,290. Alprodco, Inc., Mineral Wells, Tex. Filed Oct. 23, 1950.

LIFE-TIME

For Farm and Ranch Gates, Stockyard Gates, Lawn, Ornamental, and Industrial Gates, and Radio and Television Towers.

Claims use since March 1948.

Ser. No. 609,243. Johns-Manville Corporation, New York, N. Y. Filed Jan. 25, 1951.

TRANSITONE

Applicant claims ownership of Registrations Nos. 172,918, 390,701, and 411,810.

For Colored Facing Sheets for Walls.

Claims use since Dec. 29, 1950.

Ser. No. 610,510. Corhart Refractories Company, Louisville, Ky. Filed Feb. 26, 1951.

ELECTROPLAST

Applicant claims ownership of Registration No. 280,925.

For Building-Cements and Ramming Mixes.

Claims use since on or about June 1, 1930.

Ser. No. 611,509. Flat Metal Manufacturing Company, Franklin Park, Ill. Filed Mar. 19, 1951.

Dolphin

For Shower Doors.

Claims use since Jan. 17, 1951, as to the mark shown; and since May 15, 1946, as to "Dolphin" in a different form.

Ser. No. 614,528. Vital Products Manufacturing Company, Cleveland, Ohio. Filed May 29, 1951.

Vital

Applicant claims ownership of Registration No. 515,357.

For Calking Compound.

Claims use since September 1949.

Ser. No. 615,018. J. Neils Lumber Company, Libby, Mont. Filed June 11, 1951.

DOUBLE-LIFE

For Creosote Treated Poles for the Support of Power Lines and Communication Lines.

Claims use since Feb. 10, 1951.

Ser. No. 615,211. Dairyette, Inc., Springfield, Ill. Filed June 15, 1951.

Dairyette

For Prefabricated Buildings and Parts Thereof—Namely, Wall Panels, Glazed and Unglazed; Wall Partitions; Doors; Windows; and Roof Slab Units; Shipped in Cartons or Bundles.

Claims use since Oct. 8, 1950.

Ser. No. 615,448. Flat Metal Manufacturing Company, Franklin Park, Ill. Filed June 20, 1951.

Cascade

For Doors for Bathtub Showers.

Claims use since May 24, 1951.

Ser. No. 615,774. The E. F. Hauserman Company, Cleveland, Ohio. Filed June 27, 1951.

KORWELD

For Non-Metallic Composition Board Panel Plates, Movable Partitions of Non-Metallic Composition Board, and Wainscot and Wall Lining Panels of Non-Metallic Composition Board.

Claims use since June 22, 1951.

Ser. No. 616,605. W. S. McGuffie & Company, Cleveland, Ohio. Filed July 17, 1951.

Penco

For Putty and Glazing Compound—Namely, Glaziers' Putty, Primeless Putty, Linseed Oil Putty, Metal Casement Putty, Steel Sash Putty, Plumbers' Putty, Elastic Glazing Compound, and Caulking Compound.

Claims use since in the month of April 1948.

Ser. No. 616,876. Signalight Sales & Service, Dallas, Tex. Filed July 24, 1951.

SIGNALIGHT

For Lightweight Aggregate for Use in Treating and Cementing Oil and Gas Wells.

Claims use since June 11, 1951.

Ser. No. 616,995. Tasco International Corporation, Dallas, Tex. Filed July 26, 1951.

TASCO

For Jalousies, Louver Windows, and Louver Doors.

Claims use since June 28, 1951.

Ser. No. 617,404. Keasbey & Mattison Company, Ambler, Pa. Filed Aug. 7, 1951.

SUN-GLO BUFF

The word "Buff" is disclaimed.

For Asbestos-Composition Building Products—Namely, Shingles, Slates, Tiles, Sheets, Sheathings, and Slabs.

Claims use since on or about May 1, 1951.

Ser. No. 618,067. Wasco Flashing Co., Cambridge, Mass. Filed Aug. 24, 1951.

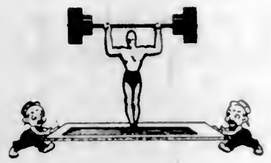
Wascolite Skydomes

Applicant claims ownership of Registrations Nos. 335,851 and 550,045.

For Skylights.

Claims use since June 4, 1951.

Ser. No. 619,147. Screentite Door Co., Oakland, Calif. Filed Sept. 22, 1951.



For Screen Doors.
Claims use since Mar. 31, 1950.

Ser. No. 620,973. Solar Aircraft Company, San Diego, Calif. Filed Nov. 7, 1951.

SOLARAMIC

For Coatings of Ceramic in Dry Powdered Form Known to the Trade as Frit, and in Liquid Form Known to the Trade as Slurry.
Claims use since Aug. 13, 1951.

Ser. No. 620,974. Solar Aircraft Company, San Diego, Calif. Filed Nov. 7, 1951.

SOLARAMIC

For Coatings of Ceramic in Dry Powdered Form Known to the Trade as Frit, and in Liquid Form Known to the Trade as Slurry.
Claims use since Aug. 13, 1951.

Ser. No. 623,388. American Biltrite Rubber Co., Inc., Trenton, N. J. Filed Jan. 10, 1952.



The drawing is lined for green, but no claim is made for color. Applicant claims ownership of Registration No. 385,013.
For Rubber Flooring.
Claims use since Nov. 6, 1951, as shown; and since July 1, 1923, as to "Amtico."

Ser. No. 625,984. Frank J. Kenedy, doing business under the name and style of Kenedy Building Products, Plymouth, Mich. Filed Mar. 5, 1952.

VITRACON

For Building Blocks Used in the Construction of Commercial Buildings.
Claims use since on or about Oct. 1, 1948.

Ser. No. 626,319. The Flintkote Company, New York, N. Y. Filed Mar. 12, 1952.

CEDARTEX

For Roofing Shingles.
Claims use since May 3, 1938.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 585,765. Pan American Metal Products Company, Inc., Miami, Fla. Filed Oct. 4, 1949.

PAMPCO

For Operators for Adjusting the Pivoted Panes of Windows Known as Awning Type Windows.
Claims use since November 1945.

Ser. No. 614,733. Washington Steel Products, Inc., Tacoma, Wash. Filed June 4, 1951. (Sec. 2f.)

WASHINGTON

For Cabinet Hardware—Namely, Door Knobs, Drawer Knobs, Combination Door Knobs and Back Plates, Combination Drawer Knobs and Back Plates, Back Plates for Door Knobs, Back Plates for Drawer Knobs, Door Pulls, Flush Door Pulls, Drawer Pulls, Combination Door Pulls and Back Plates, Combination Drawer Pulls and Back Plates, Back Plates for Door Pulls, Back Plates for Drawer Pulls, Door Catches, Friction Door Catches, Spring Grip Door Catches, Door Latches, Combination Door Latches and Door Pulls, Hinges, Door Hinges, Semi Concealed Inset Hinges, Semi Concealed Hinges, Semi Concealed Hinges for Lipped Doors, Semi Concealed Hinges for Doors With Concealed Edges, Semi Concealed Hinges for Flush Doors, Concealed Hinges for Flush Doors, Pivot Hinges, Pivot Hinges for Revolving Shelves, Screws, Breadboard Screws, Rolling Drawer Guides, Drawer Stops, Rolling Door Tracks, Rolling Door Single Tracks, Rolling Door Double Tracks, Rolling Door Hangers, Rolling Door Wheel Hangers, Cabinet Ventilators, Louvers.
Claims use since in the year 1935.

Ser. No. 627,287. The Toledo Desk and Fixture Company, Maumee, Ohio, assignor to Toledo Desk & Fixture Corporation, a corporation of Ohio. Filed Mar. 29, 1952.

JR. LAVANETTE

For Cabinet-Type Lavatory Units.
Claims use since August 1949.

Ser. No. 627,288. The Toledo Desk and Fixture Company, Maumee, Ohio, assignor to Toledo Desk & Fixture Corporation, a corporation of Ohio. Filed Mar. 29, 1952.

LAVANETTE

For Cabinet-Type Lavatory Units.
Claims use since June 1949.

Ser. No. 627,289. The Toledo Desk and Fixture Company, Maumee, Ohio, assignor to Toledo Desk & Fixture Corporation, a corporation of Ohio. Filed Mar. 29, 1952.

VANETTE

For Cabinet-Type Lavatory Units.
Claims use since Oct. 1, 1951.

Ser. No. 627,588. Markwell Manufacturing Co., Inc., New York, N. Y. Filed Apr. 4, 1952.

S-O

For Staples Used for Fastening Papers, Cardboard, Fabrics, and Light Gage Metal Together, Also for Fastening Papers, Cardboard, Fabrics, and Light Gage Metal on to Wood.
Claims use since Sept. 24, 1951.

Ser. No. 627,820. Illinois Tool Works, Chicago, Ill. Filed Apr. 9, 1952.

PLASTISCREW

For Thread Cutting Screws.
Claims use since Mar. 17, 1945.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 552,412. Band-It Company, Denver, Colo. Filed Mar. 19, 1948. (Sec. 2f.)

BAND-IT

Applicant claims ownership of Registrations Nos. 357,306, 358,303, and 441,272.
For Metal Strip.
Claims use since Dec. 1, 1937.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 610,572. Katharina Vander Meulen, doing business as Vanco Paint & Varnish Co., Chicago, Ill. Filed Feb. 27, 1951.

Vancolite

For Paints.
Claims use since Jan. 22, 1951.

Ser. No. 620,195. Claronex Products, Inc., Brooklyn, N. Y. Filed Oct. 19, 1951.

CLARONEX

For Paints.
Claims use since Mar. 31, 1937.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 576,235. Stanley Drug Products, Inc., Portland, Oreg. Filed Mar. 28, 1949.

CRYSTALIN

For Volatile Crystallized Liniment and Liniments in General.
Claims use since on or about June 30, 1925.

Ser. No. 582,274. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Filed July 21, 1949.

LYSPAMINE

Applicant claims ownership of Swiss Registration No. 125,124, dated Apr. 26, 1948.
For Antispasmodic Preparation.

Ser. No. 606,764. Foley & Company, Chicago, Ill. Filed Nov. 22, 1950. (Sec. 2f as to "Foley.")



The word "Cold" is disclaimed. The figures appearing in the mark are fanciful. Applicant claims ownership of Registrations Nos. 61,926, 88,260, 128,697, and 129,456.
For Throat Lozenges.
Claims use since July 12, 1950, as to the mark shown; and since Jan. 1, 1885, as to "Foley."

Ser. No. 612,295. Baray Pharmacal Corporation, Brooklyn, N. Y. Filed Apr. 6, 1951.

Swish

For Tablets for Making Medicinal Mouth Wash Solution.
Claims use since Jan. 24, 1951.

Ser. No. 616,454. Stanley Drug Products, Inc., Portland, Oreg. Filed July 13, 1951.

BUTICAPS

For Preparation Containing Vitamins Used as a Dietary Aid for Conditioning the Skin.
Claims use since June 27, 1951.

Ser. No. 616,595. Dome Chemicals, Inc., New York, N. Y. Filed July 17, 1951.

VI-DOM-"A"

The letter "A" is disclaimed.
For Vitamin Pills Containing Vitamin A and Medicinal Preparations for External Use in the Treatment of Skin Infections and Other Skin Irritations.
Claims use since January 1950.

Ser. No. 617,456. National Package Drugs, Inc., St. Louis, Mo. Filed Aug. 8, 1951.

Drugmaster

Applicant claims ownership of Registration No. 505,762.
For Medicinal Preparations—Namely, Aspirin, Mineral Oil, Rubbing Alcohol Compound, Epsom Salt, Elixir Phenobarbital, Elixir Terpin Hydrate and Codeine, Glycerin, Oil of Wintergreen, Compound Tincture of Benzoin, Spirit of Camphor, Camphorated Oil, Castor Oil, Boric Acid Powder, Alum Lump, Senna Leaves, Flowers of Sulfur, Flaxseed, Vitamin B-1, Syrup Kosilan, Hemorrhoidal Suppositories, and Zinc Oxide Ointment.
Claims use since Feb. 15, 1941.

Ser. No. 617,461. S. A. Felice Bisleri & Cia., Milan, Italy. Filed Aug. 8, 1951. (Sec. 2f as to "Bisleri.")



The expression "Ferro-China" is disclaimed. Applicant claims ownership of Registration No. 177,130.
For Medicinal Bitters and Stomachic Tonics.
Claims use since on or about Jan. 1, 1885.

Ser. No. 617,891. Ralf Morrison Spangler, doing business under the fictitious trade name of Morrison Company, Hollywood, Calif. Filed Aug. 20, 1951.

V-Vitamins
M-Minerals
B-Bulk
TRI-PLEX
TABLETS

The words "Vitamins," "Minerals," "Buk," and "Tablets' are disclaimed.
For Vitamin-Mineral-Tablets.
Claims use since Aug. 1, 1951.

Ser. No. 619,654. E. R. Squibb & Sons, New York, N. Y. Filed Oct. 5, 1951.

Diagnex

For Diagnostic Indicator Preparation.
Claims use since Sept. 17, 1951.

Ser. No. 621,493. American Cyanamid Company, New York, N. Y. Filed Nov. 21, 1951.

HIBIMAL

Applicant claims ownership of Registration No. 509,145.
For Anticonvulsant.
Claims use since Oct. 31, 1951.

Ser. No. 621,630. Moffet Laboratories, Inc., Dayton, Ohio. Filed Nov. 24, 1951.

CELRON

For Preparation for the Treatment of Anemia.
Claims use since Sept. 1, 1951.

Ser. No. 621,787. Karl H. Sautter, Chicago, Ill. Filed Nov. 28, 1951.



For Laxative Preparation for Human Use.
Claims use since Dec. 11, 1933.

Ser. No. 621,941. G. W. Carnrick Co., Newark, N. J. Filed Dec. 1, 1951.

ANDRODIOL

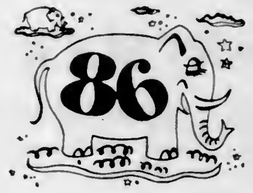
For Steroid Used as a Metabolic Stimulant.
Claims use since Nov. 14, 1951.

Ser. No. 621,942. G. W. Carnrick Co., Newark, N. J. Filed Dec. 1, 1951.

DIOLANDRONE

For Preparation of a Steroid Used as a Metabolic Stimulant.
Claims use since Nov. 15, 1951.

Ser. No. 622,645. 86 Distributing Company, Sherman Oaks, Calif. Filed Dec. 18, 1951.



For Digestive Analgesic Absorbent, Antacid To Be Taken Upon Retiring for Overindulgence.
Claims use since Oct. 29, 1951.

Ser. No. 626,200. Frank P. Dimitri, New Orleans, La. Filed Mar. 10, 1952.

PELICAN

For Liniment Used for Treating Muscular Aches and Pains.
Claims use since Feb. 14, 1952.

Ser. No. 626,212. Miller and Company, doing business under the style name of Elmorene Company, Chicago, Ill. Filed Mar. 10, 1952.

Elmorene FORMULA 246

The word "Formula" is disclaimed.
For Pharmaceutical Preparation Used for Discouraging the Biting of Finger Nails and of Thumb Sucking.
Claims use since Nov. 23, 1951.

Ser. No. 626,352. Travenol Laboratories, Inc., Morton Grove, Ill. Filed Mar. 12, 1952.

Polyendone

For Non-Protein Bacterial Pyrogen.
Claims use since Apr. 14, 1950.

Ser. No. 626,368. Chilcott Laboratories, Inc., Morris Plains, N. J. Filed Mar. 13, 1952.

CHILRAL

For Product for Alleviation of Bronchial Asthma.
Claims use since Oct. 26, 1951.

Ser. No. 626,488. Ayerst, McKenna & Harrison Limited, New York, N. Y. Filed Mar. 15, 1952.

SIPREMEX

For Conjugated Estrogens and Estrone in Dosage Form.
Claims use since Feb. 25, 1952.

Ser. No. 626,542. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Mar. 15, 1952.

'VERIBILE'

For Preparation for Use in the Treatment of Gastrointestinal Disorders, Particularly Those Resulting From Insufficient Secretion of Bile or Disturbance in Biliary Flow Not Due to Mechanical Obstruction.
Claims use since Feb. 20, 1952.

Ser. No. 626,603. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Mar. 18, 1952.

LENITAS

For Penicillin in Candy Form.
Claims use since Feb. 13, 1952.

Ser. No. 626,643. G. D. Searle & Co., Skokie, Ill. Filed Mar. 18, 1952.

MONOZOL

For Synthetic Hormone Preparation for Treatment of Endocrine Dysfunction, in Ampule and Tablet Form.
Claims use since Dec. 19, 1951.

Ser. No. 626,674. The Grove Laboratories, Inc., St. Louis, Mo. Filed Mar. 19, 1952. (Sec. 2f.)

E. W. Grove

Applicant claims ownership of Registrations Nos. 312,179, 402,596, and others.
For Healing and Antiseptic Oil.
Claims use since Jan. 29, 1894.

Ser. No. 627,242. Armour and Company, doing business under the trade style Armour Laboratories, Chicago, Ill. Filed Mar. 29, 1952.

STET

For Anti-Nausea Preparation.
Claims use since Mar. 4, 1952.

Ser. No. 627,678. Ethcraft Chemical Company, Jacksonville, Fla. Filed Apr. 7, 1952.

Al-Karb
ANTACID POWDER

The words "Antacid Powder" are disclaimed.
For Medicine, Produced and Sold in Powder Form, Which Medicine Is Used as an Antacid.
Claims use since Mar. 16, 1952.

Ser. No. 628,615. Cutter Laboratories, Berkeley, Calif. Filed Apr. 24, 1952.

Plasdex

Applicant claims ownership of Registration No. 373,804.
For Medicinal Preparation—Namely, a Sterile Non-Pyrogenic Chemical Solution Particularly Useful as a Blood Plasma Extender.
Claims use since Aug. 1, 1951.

CLASS 19
VEHICLES

Ser. No. 537,230. The Paine & Williams Company, Cleveland, Ohio. Filed Oct. 8, 1947. (Sec. 2f—Additional evidence.)

FELTBAK

Applicant claims ownership of Registration No. 323,666.
For Automobile Floor Mats.
Claims use since Mar. 15, 1934.

Ser. No. 586,927. Lone Star Olds Cadillac Co., Dallas, Tex. Filed Oct. 27, 1949.

AUTO-TORIUM

The word "Auto" is disclaimed.
For Automobiles, Trucks, Structural Parts and Accessories—Namely, Rear View Mirrors, Floor Board Carpets, Seat Cushions, Seat Covers, Front and Side Visors, and Hub Caps.
Claims use since Oct. 19, 1949.

Ser. No. 591,668. Robert S. Coombs, doing business as Coombs Luma-Rim Company, San Francisco, Calif., assignor to Luma-Rim Corporation, Oakland, Calif., a corporation of California. Filed Jan. 30, 1950.



The word "Rim," the representation of the goods, and the side view of an automobile tire are disclaimed. The drawing is lined to indicate shading.
For Safety Device for Automobiles Consisting of Cut-Outs of Reflective Glass and Plastic Sheeting, Adapted To Be Applied to Automobile Wheel Rims.
Claims use since Jan. 26, 1950.

Ser. No. 600,496. Magnatex Limited, Harlington, England. Filed July 11, 1950.

TEX

Priority under Sec. 44(d). British applications filed Mar. 8, 1950; Registrations Nos. B687,071 and B687,072, dated Mar. 8, 1950.
For Motor Vehicle Accessories—Namely, Vehicle Direction Indicators of the Semaphore Arm Type, Windshield Wipers, Windshield Wiper Arms, Windshield Wiper Blades, Rear-Viewing Mirrors, Defrosters, Demisters, Air-Conditioning and Heating Installations for Vehicles; and Parts of All Such Goods.

Ser. No. 611,402. Chrysler Corporation, Highland Park, Mich. Filed Mar. 16, 1951. (Sec. 2f.)

CHRYSLER

Applicant claims ownership of Registrations Nos. 187,901, 272,969, and 428,619.
For Automobiles and Their Structural Parts.
Claims use since Jan. 1, 1924.

Ser. No. 611,403. Chrysler Corporation, Highland Park, Mich. Filed Mar. 16, 1951. (Sec. 2f.)

DE SOTO

Applicant claims ownership of Registrations Nos. 247,898 and 387,827.
For Automobiles and Their Structural Parts.
Claims use since Mar. 30, 1928.

Ser. No. 611,451. Rayco Manufacturing Co., Paterson, N. J. Filed Mar. 16, 1951.



The wording and the representation of the seat covers and the automobile seat are disclaimed.
For Automobile Seat Covers.
Claims use since Jan. 2, 1951.

Ser. No. 612,303. Buch Manufacturing Company, Elizabethtown, Pa. Filed Apr. 6, 1951. (Sec. 2f.)

BUCH

For Wheelbarrows.
Claims use since 1868.

Ser. No. 615,233. Lempco Products, Inc., Bedford, Ohio. Filed June 15, 1951.

LEMPCO

Applicant claims ownership of Registrations Nos. 391,387 and 278,728.
For Dollies for Mechanics To Allow Movement of the Mechanic Under a Vehicle in a Recumbent Position and Wheel Balancing Weights.
Claims use since September 1947.

Ser. No. 617,097. Spiegel, Inc., Chicago, Ill. Filed July 28, 1951.

AIRMAN

Applicant claims ownership of Registration No. 419,746.
For Motorcycles.
Claims use since in or about July 1950.

Ser. No. 618,106. Vickers-Armstrongs Limited, London and Westminster, London, England. Filed Aug. 25, 1951.

VISCOUNT

Applicant claims ownership of British Registration No. 686,190, dated Feb. 8, 1950.
For Aeroplanes and Structural Parts Thereof.

CLASS 20
LINOLEUM AND OILED CLOTH

Ser. No. 565,315. Congoleum-Nairn, Inc., Kearny, N. J. Filed Sept. 17, 1948. (Sec. 2f.)

REDI-CUT

For Floor and Wall Coverings of Linoleum or Enamel Surface Felt Base Type or Asphaltic Resinous or Cork Composition, or the Like.
Claims use since Mar. 1, 1943.

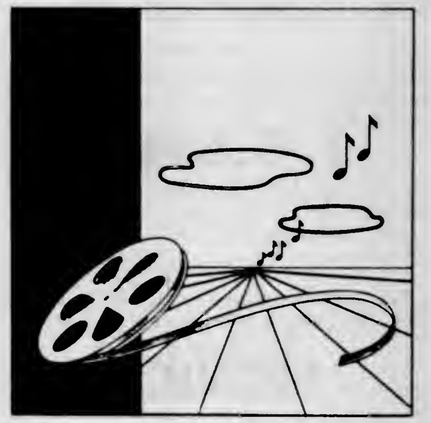
CLASS 21
ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 576,664. Srepco, Inc., Dayton, Ohio. Filed Apr. 5, 1949.

SREPCO

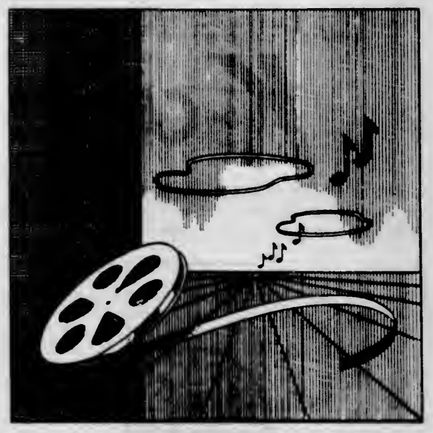
For Radio, Electrical and Electronic Equipment—Namely, Receivers, Transmitters, Antennas, Storage Batteries, Dry Cell Batteries, Coil and Coil Assemblies, Condensers, Vacuum Tubes; Piezo Electric Crystal Devices—Namely, Microphones, Microphone Replacement Cartridges, Phonograph Pickup Cells and Piezo Electric Frequency Controlling Crystals; Dials and Dial Assemblies and Parts Thereof, Dial Lamps, Panel Lamps, Panels, Neon Lamps, and Fuses; Electrical and Electronic Insulating Materials in Sheet, Tubular, Liquid, Fabric, and Molded Form; Jacks, Plugs, Connectors, Sockets, Relay Racks, Head Phones, and Electronic Amplifier Interoffice Communication Apparatus; Cabinets and Chassis for Electronic and Electrical Purposes—Namely, Metal Cabinets, Racks, Chassis and Panels for Foundations for Construction of Electronic Apparatus and Wooden Cabinets To House and Baffle Loud Speakers; Phonographs, Sound Recorders and Phonograph Turntables, Public Address Systems, Loud Speakers, Microphones and Stands Therefor, Blank Recording and Transcription Disks for Recording Sound, Not Pregrooved; Rectifiers, Electrically Heated Soldering Irons and Parts Thereof; Switches, Relays, and Electric Eye Control Systems for Radio and Electronic Purposes; Electronic Timers and Counters for Starting, Stopping, and Controlling Other Apparatus; Television Receivers and Parts Thereof and Antennas Therefor; Transformers, Electronic, Electrical and Radio Inverters and Vibrators for Inverters; Resistors, and Wire, Cable, and Cords.
Claims use since Aug. 10, 1945.

Ser. No. 592,689. Audio Devices, Inc., New York, N. Y. Filed Feb. 18, 1950.



The representation of the roll of tape is disclaimed.
For Magnetic Sound Recording Tape.
Claims use since on or about Oct. 5, 1949.

Ser. No. 592,690. Audio Devices, Inc., New York, N. Y. Filed Feb. 18, 1950.



The drawing is lined for black and red. The radial lines in the lower right section indicate white; and the generally elliptical lines in the central section indicate white. The representation of the roll of tape is disclaimed.
For Magnetic Sound Recording Tape.
Claims use since on or about Oct. 5, 1949.

Ser. No. 593,479. Federal Electric Products Company, Newark, N. J. Filed Mar. 6, 1950. (Sec. 2f—Additional evidence.)

STAB-LOK

For Circuit Breakers and Distribution Panel Boards.
Claims use since Feb. 17, 1950.

Ser. No. 611,471. Casco Products Corporation, Bridgeport, Conn. Filed Mar. 17, 1951. (Sec. 2f.)

NITE-LITE

Applicant claims ownership of Registration No. 406,373.
For Hand-Held Feed-Through Rheostat Electric Switches, Particularly Adapted for Use With Heating Pads.
Claims use since July 25, 1941.

Ser. No. 613,410. The Kerite Company, Seymour, Conn., and New York, N. Y. Filed May 2, 1951.

T. C. GREEN

The term "Green" is disclaimed.
For Insulated Wire and Cables.
Claims use since Oct. 19, 1948.

Ser. No. 614,751. Cathodeon Limited, Cambridge, England. Filed June 5, 1951.

MONICON

Applicant claims ownership of British Registration No. 681,661, dated Aug. 12, 1949.
For Television Pick-Up Tubes, Tubes for Converting Stationary or Moving Pictures Into Electric Signals, Picture Generating Tubes, and Image-Converter Tubes.

Ser. No. 615,206. Automatic Manufacturing Corporation, Newark, N. J. Filed June 15, 1951.

K-CAP

Applicant claims ownership of Registration No. 509,336.
For Electrical Condensers Used in Electrical Circuits.
Claims use since on or about Apr. 5, 1950.

Ser. No. 615,296. Springfield Electrical Specialties, Inc., New York, N. Y. Filed June 16, 1951.

SUPERSEAL

The word "Superseal" is disclaimed.
For Electrical Condensers, Capacitors and Filters.
Claims use since 1938.

Ser. No. 615,650. James D. McDonald, doing business under the fictitious name and style of McDonald Manufacturing Company, Los Angeles, Calif. Filed June 25, 1951.



For Electric Switch Plates.
Claims use since May 10, 1949.

Ser. No. 618,441. John Charles Sydney Branson, Birmingham, England. Filed Sept. 6, 1951.

FONADEK

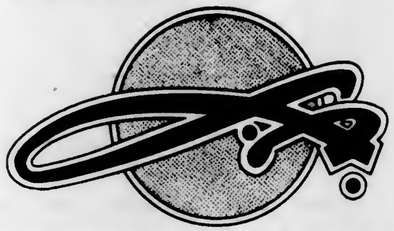
For Loud-Speaker Apparatus for Use in Connection With Telephone Receivers for the Purpose of Amplifying the Voice or Other Sounds Emanating From the Receiver and Transmitting the Same Through the Loud-Speakers.
Claims use since Jan. 1, 1950; and since July 1, 1951, in commerce between foreign nations and the United States.

Ser. No. 618,756. North American Battery Co., Omaha, Nebr. Filed Sept. 13, 1951.

RED GIANT

For Electrical Storage Batteries Such as Are Used in Connection With the Ignition System of Automobiles and the Like.
Claims use since Aug. 1, 1951.

Ser. No. 619,693. The Louis Allis Company, Milwaukee, Wis. Filed Oct. 8, 1951.



The mark consists of the initials "L. A." in script, overlying a circular background. Applicant claims ownership of Registrations Nos. 180,349, 183,269, and 191,628.
For Electric Motors, Generators, Alternators, Electric Adjustable Speed Drives, Electric Gear Motors, and Frequency Changers.
Claims use since Feb. 1, 1935.

Ser. No. 625,675. K & M Machine Company, Toledo, Ohio. Filed Feb. 28, 1952.

KRĀKO

For Electric Vacuum Cleaners.
Claims use since Nov. 21, 1951.

Ser. No. 626,445. Daystrom, Incorporated, Elizabeth, N. J. Filed Mar. 14, 1952.

DAYSTROM

For Electrical Recording and Reproducing Apparatus for Recording and Reproducing Embossed or Cut Sound-on-Film Sound Records.
Claims use since Jan. 25, 1952.

Ser. No. 626,481. Textron Incorporated, Providence, R. I. Filed Mar. 14, 1952.

TEXTRON

For Electric Blankets.
Claims use since October 1949.

Ser. No. 626,659. The Dayton Rubber Company, Dayton, Ohio. Filed Mar. 19, 1952.

Defender

For Vehicle Storage Batteries.
Claims use since in or about September 1951.

Ser. No. 626,849. Atlas Supply Company, Newark, N. J. Filed Mar. 22, 1952.

AcTo

For Storage Batteries.
Claims use since Nov. 26, 1930.

CLASS 22
GAMES, TOYS, AND SPORTING GOODS

Ser. No. 593,853. Artisan Novelty Co., Gardena, Calif. Filed Mar. 13, 1950.

Raving Beauty

For Dolls.
Claims use since Feb. 17, 1950, on the mark as shown; and since Feb. 13, 1950, as to "Raving Beauty."

Ser. No. 620,510. Kingston Products Corporation, Kokomo, Ind. Filed Oct. 26, 1951. (Sec. 2f.)

KINGSTON

For Roller Skates.
Claims use since 1930.

Ser. No. 621,103. Ideal Toy Corporation, Hollis, N. Y. Filed Nov. 10, 1951.

Saralee

For Dolls.
Claims use since Oct. 10, 1951.

Ser. No. 622,857. The Sun Rubber Company, Barberton, Ohio. Filed Dec. 26, 1951.

Sun 22

For Basketballs, Basketball Goal Sets Consisting of Rings and Nets, and Footballs.
Claims use since on or about Nov. 6, 1951.

CLASS 23
CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 528,903. Woodward Governor Company, Rockford, Ill. Filed July 18, 1947. (Sec. 2f.)

WOODWARD

Applicant claims ownership of Registration No. 399,560.
For Automatic Governors for Precise Regulation of the Speed of Prime Movers and Accessories and Auxiliaries for Such Governors—Namely, Speed Adjusters, Speed Droop Controllers, Limit Controllers, and Automatic Shut-Down Solenoids Sold With Said Governors.
Claims use since August 1917, as shown; and since June 1910, as to the name "Woodward."

Ser. No. 563,984. Oliver Machinery Company, Grand Rapids, Mich. Filed Jan. 23, 1948. (Sec. 2f.)

"OLIVER"

Applicant claims ownership of Registration No. 138,916.
For Machinery—Namely, Circular Saw Benches, Rip Saws, Cutoff Saws, Band Saws, Log Cutoff Band Saws, Wood Surfacers, Wood Facing Planers, Hand Planers and Jointers, Wood Turning Lathes, Belt Sanders, Disk Sanders, Drum Sanders and Spindle Sanders, Horizontal and Vertical Boring Machines, Pattern Milling Machines, Mortisers, Single End Tenoning Machines, Wood Shapers, Moulders, Carvers, Tool Grinders, Wood Trimmers, Bread Slicers, Bread Wrappers, Sealing Machinery, Package Wrapping Machinery, Labeling Machines, and Knives Which Are Used With the Foregoing Machinery.
Claims use since January 1910.

Ser. No. 572,004. Wheeling Corrugating Company, Wheeling, W. Va. Filed Jan. 11, 1949.

Diamondrag

For Harrows.
Claims use since May 14, 1948.

Ser. No. 576,553. Precise Products Company, Racine, Wis. Filed Apr. 2, 1949. (Sec. 2f—Additional evidence.)

Precise

For Grinding and Milling Tools, Arbors, Milling Cutters, Flexible Shafts, Suspension Hangers, Tool Post Holders, Chucks, Collets, Wheel Arbors, Tool Mountings, Lathes, Milling Tables, Wire Strippers, Slotters, and Undercutters.
Claims use since July 5, 1941.

Ser. No. 591,079. Gaiter Products Company, Chicago, Ill. Filed Jan. 19, 1950.

SPARTUS

For Electric Razors.
Claims use since Jan. 16, 1950.

Ser. No. 591,685. Kaiser-Frazer Corporation, Willow Run, Mich. Filed Jan. 30, 1950.

SUPER SONIC

For Automotive Engines.
Claims use since Jan. 9, 1950.

Ser. No. 597,472. Standard Pressed Steel Co., Jenkintown, Pa. Filed May 15, 1950.

SPS

For Shoe Equipment—Namely, Work Benches, Work Stands, Work Bench Drawers, Work Cabinets, Work Bench Legs, Tool Stands, Work Tables.
Claims use since Mar. 29, 1949.

Ser. No. 601,964. Twin Disc Clutch Company, Racine, Wis. Filed Aug. 8, 1950.

HYDRO-WYND

The word "Hydro" is disclaimed.
For Hydraulic Power Transmission Coupling and Connected Planetary Gear Set Sold as a Unit.
Claims use since June 1, 1949.

Ser. No. 603,599. E. B. Sewall Manufacturing Co., St. Paul, Minn. Filed Sept. 15, 1950.

SMCo

For Cut Tooth Gears, Sprockets, and Racks for All Types of Machinery Which Are Used To Transmit From a Rotating Pinion, Linear Motion to Machine Table, Slide or Other Part.
Claims use since Sept. 5, 1950.

Ser. No. 603,607. Nathan Straus-Duparquet, Inc., New York, N. Y. Filed Sept. 15, 1950. (Sec. 2f.)

DUPARQUET

For Basting and Serving Spoons, Ladles, Steak Knives, Kitchen Knives and Forks.
Claims use since 1921.

Ser. No. 603,742. Morris Langhaus, doing business as Sun Ray Hair Preparation Company, New York, N. Y. Filed Sept. 19, 1950.

SQUARE SUN

For Scissors for Cutting the Hair and Shears for Thinning the Hair, Pen Knives, Butcher Knives, Straight Edge Razors, Razor Blades, and Hair Clippers.
Claims use since Aug. 1, 1950.

Ser. No. 606,404. Leo Lammertz, Aachen, Germany. Filed Nov. 2, 1950.



Priority under Sec. 44(d). German Registration No. 608,611, filed May 8, 1950.
For Sewing Machine Needles, Embroidering Machine Needles, Bookbinding Machine Needles, Threading Machine Needles, Ornamenting Machine Needles, Decker Needles, Perforating Needles, Piercing Needles, Hook Needles With and Without Twisted Point, Hemstitch Piercing Needles, and Regulating Needles, All for Use With Machines; Embroidering Machine Hooks, Threading Hooks for Use With Machines, and Drivers for Pegging Machines; by Awls, Pique Awls, Turning-Off Awls, Awls for Shoemakers and Saddlers, by Piercers, Crochet Piercers, Punches for Shoemakers and Saddlers, Flat Punches, Pegging Punches, Cross Punches, Ornamenting Machine Punches.

Ser. No. 612,201. A. B. Farquhar Company, York, Pa. Filed Apr. 4, 1951. (Sec. 2f.)

NON-WRAP

Applicant claims ownership of Registration No. 264,266.
For Manure Spreaders.
Claims use since Aug. 7, 1928.

Ser. No. 612,370. Gar Wood Industries, Inc., Wayne, Mich. Filed Apr. 7, 1951. (Sec. 2f.)

WOOD

For Hoists—Namely, Hydraulic Direct-Lift, Arm-Type, Cam and Roller, and Telescopic Hoists, and Mechanical Hoists for Truck Bodies.
Claims use since Nov. 1, 1921.

Ser. No. 613,242. Seawol Sewing Supplies, Los Angeles, Calif. Filed Apr. 27, 1951.

ELECTRO-MATIC
ZIG-ZAG

The words "Electro" and "Zig-Zag" are disclaimed.
For Sewing Machines.
Claims use since on or about Apr. 2, 1951.

Ser. No. 616,334. Philadelphia Gear Works, Inc., Philadelphia, Pa. Filed July 11, 1951. (Sec. 2f.)

PLANETORQUE

For Power Driven Reduction Gear Units for Reducing the Speed of Motors.
Claims use since November 1939.

Ser. No. 617,162. John S. Regal & Son, Inc., Cambridge, Mass. Original filed, act of 1946, Supplemental Register, July 31, 1951; amended to application, Principal Register, May 21, 1952.

REGAL

For Shovels, Spades, Scoops, Cultivators, Edgers, Hoes, Rakes, and Forks.
Claims use since Feb. 18, 1946.

Ser. No. 617,834. Camera Lift Car Company, West Los Angeles, Calif. Filed Aug. 18, 1951.



The word "The" and the representation of the goods are disclaimed. The drawing is lined for blue and orange.
For Apparatus in the Nature of a Bracket With an Adjustable Platform Therein Adapted for Mounting on the Front End of an Automobile for Purposes of Maintaining a Motion Picture Camera in Different Adjusted Elevated Positions.
Claims use since Oct. 30, 1950.

Ser. No. 620,525. Ritter Company, Inc., Rochester, N. Y. Filed Oct. 26, 1951. (Sec. 2f as to "Ritter.")



Applicant claims ownership of Registrations Nos. 263,821, 263,822, 212,833, and 544,533.
For Air Compressors.
Claims use since Mar. 21, 1928.

Ser. No. 623,332. The Bready Tractor and Implement Company, Solon, Ohio. Filed Jan. 9, 1952.

SNO-MASTER

The word "Sno" is disclaimed.
For Hand-Operable, Motor-Driven Snow Plow for Use on Sidewalks, Parking Lots, and Other Limited Areas.
Claims use since Dec. 15, 1951.

Ser. No. 625,978. Jack Feder, Forest Hills, N. Y. Filed Mar. 5, 1952.

Sigma

For Sewing Machine and Sewing Machine Parts.
Claims use since December 1948.

CLASS 25
LOCKS AND SAFES

Ser. No. 615,625. Clayton & Lambert Manufacturing Company, Louisville, Ky. Filed June 25, 1951.

MONARCH

For Panic Exit Devices.
Claims use since 1925.

Ser. No. 615,882. Clayton & Lambert Manufacturing Company, Louisville, Ky. Filed June 29, 1951.

C/S

For Panic Exit Devices.
Claims use since August 1945.

Ser. No. 625,069. Hollymade Hardware Mfg. Co., Los Angeles, Calif. Filed Feb. 16, 1952.

CHALLENGER

For Builders' Hardware—Namely, Locks, Latches, and Locking Bolts.
Claims use since Jan. 15, 1952.

CLASS 26
MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 527,769. Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Filed July 5, 1947. (Sec. 2f.)

LOCKSWITCH

For Safety Instruments Having a Thermostatic Element Responsive to the Presence or Absence of Combustion for Controlling Fuel Supply to Fuel Burners.
Claims use since at least as early as 1926.

Ser. No. 600,417. E. D. Coddington Manufacturing Company, Milwaukee, Wis. Filed July 10, 1950.

AUGER-MATIC

The word "Auger" is disclaimed.
For Machines for Automatic Filling of Bags With a Predetermined Weight of Goods.
Claims use since June 5, 1950.

Ser. No. 604,562. Burke & James, Inc., Chicago, Ill. Filed Oct. 7, 1950.

Weltaxe

The mark consists of the letters "Weltax."
For Cameras.
Claims use since Jan. 1, 1938.

Ser. No. 611,288. London Film Productions, Inc., New York, N. Y. Filed Mar. 14, 1951. (Sec. 2f.)



The words "Film Production" are disclaimed.
For Series of Motion Picture Photoplays.
Claims use since 1933.

Ser. No. 612,225. Adapto Wax Findings, Inc., New York, N. Y. Filed Apr. 5, 1951.



For Wax Patterns for Use in Making a Mold for Casting Jewelry Findings.
Claims use since Feb. 15, 1951.

Ser. No. 616,575. Whitney Process, Inc., Rocky Ford, Colo. Filed July 16, 1951.

DiPlax

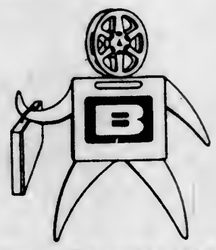
For Light-Sensitive Matrix Forming Material for the Photographic Production of Printing Plates for Printing Press Work.
Claims use since on or about Feb. 1, 1951.

Ser. No. 617,907. Brumberger Co. Inc., Brooklyn, N. Y. Filed Aug. 21, 1951.



The representation of the goods is disclaimed.
For Stereoscopic Viewers and Accessories—Namely, Reducing Adapters, Slides, Film Strips and Slide Files, Stereoscopic Stereo and Slide Mounts and Slide Previewers; Reels and Cans; Dark Room Safelights, Contact Printers.
Claims use since Dec. 20, 1950.

Ser. No. 617,908. Brumberger Co. Inc., Brooklyn, N. Y. Filed Aug. 21, 1951.



The representation of the goods is disclaimed.
For Stereoscopic Viewers and Accessories—Namely, Reducing Adapters, Slides, Film Strips and Slide Files, Stereoscopic Stereo and Slide Mounts and Slide Previewers; Reels and Cans, Dark Room Safelights, Contact Printers.
Claims use since Dec. 20, 1950.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 623,736. The Shaw-Rogers Company, Akron, Ohio. Filed Jan. 17, 1952.

Westhall

For Watches.
Claims use since Nov. 20, 1951.

Ser. No. 626,150. Henry Coehler Co., Inc., New York, N. Y. Filed Mar. 8, 1952.

HECO

For Ladies' and Men's Wrist Watches, Pocket Watches, and Household Clocks and Clocks for Personal Use.
Claims use since June 1936.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 595,974. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed Apr. 19, 1950. (Sec. 2f—Additional evidence.)

HUGS and GIVES

For Pearl Jewelry—Namely, Collars and Chokers.
Claims use since October 1948.

Ser. No. 599,819. M. Ellman & Co., Inc., Atlanta, Ga. Filed June 27, 1950.

LOVELITE

For Jewelry Made of Precious Metal—Namely, Ornamental Pins, Brooches, Ornamental Clips, Earrings, Bracelets, Neck-Chains, and Jewelry Mountings.
Claims use since Dec. 10, 1945.

Ser. No. 605,577. Wilson M. Brady, Catonsville, Md. Filed Oct. 30, 1950.

"Tassel-Ty"

The word "Tassel" is disclaimed.
For Jeweled Clasp.
Claims use since July 11, 1950.

Ser. No. 616,739. Troob-Gordon Co., Providence, R. I. Filed July 20, 1951. (Sec. 2f.)

Little Folks

For Jewelry for Personal Wear, Not Including Watches—Namely, Bracelets, Pendants, Necklaces, Anklets, Lockets, Charms, Brooches, Lapel Pins, Finger Rings, All the Foregoing Being Made in Whole of, in Part of, or Plated With Precious Metal.
Claims use since Jan. 1, 1938.

Ser. No. 619,847. Paley & Thomas, Inc., New York, N. Y. Filed Oct. 10, 1951.



All representations with reference to the goods are disclaimed.
For Cultured Pearls.
Claims use since May 14, 1951.

Ser. No. 623,962. The International Silver Company, Meriden, Conn. Filed Jan. 23, 1952.

Lambeth Manor

Applicant claims ownership of Registration No. 325,054.
For Sterling Silver Tableware Consisting of Flatware and Hollow-Ware.
Claims use since January 1952.

Ser. No. 624,822. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Feb. 12, 1952.

Fedway

For Bracelets, Earrings, Necklaces, Lapel and Breast Pins, Watch Bands, Wedding Bands, Key Chains, Watch Chains, Cufflinks and Tie Clasps, Wholly and Partly Made of Precious Metal and Plated With Precious Metal, Silver Holloware, and Silver Flatware.
Claims use since Jan. 11, 1952.

Ser. No. 625,313. David Jacobs, Lincoln, Nebr. Filed Feb. 1, 1952.

Gay Lady

For Costume Jewelry—Namely, Bracelets, Necklaces, Brooch and Lapel Pins, Earrings, Pin and Earring Sets, and Chatelaines.
Claims use since Dec. 22, 1951.

Ser. No. 625,797. Gemex Company, Union, N. J. Filed Mar. 1, 1952.

THE BUCCANEER

For Bracelets and Watch Bracelets and Watch Straps.
Claims use since Feb. 19, 1952.

Ser. No. 625,828. Speidel Corporation, Providence, R. I. Filed Mar. 1, 1952.

RAIN DROP

For Watch Bracelets (Not Including Watches).
Claims use since Feb. 25, 1952.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 613,022. Parfumerie de Raymond, New York, N. Y. Filed Apr. 23, 1951. (Sec. 2f.)

SCALP TONER

Applicant claims ownership of Registration No. 397,137.
For Hair Brushes.
Claims use since August 1933.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 610,366. Herman J. Kuppers, Atlanta, Ga. Filed Feb. 21, 1951.



For Pottery Vessels for Flowers and Plants.
Claims use since Apr. 6, 1950.

Ser. No. 619,262. Rubel & Company Decorative Accessories, Inc., New York, N. Y. Filed Sept. 26, 1951.

LAIZY DAIZY

For Serving Trays for Tables Made of Earthenware or Porcelain.
Claims use since March 1950.

Ser. No. 624,823. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Feb. 12, 1952.

Fedway

For China and Earthenware Plates, Saucers, Cups, and Salt and Pepper Shakers.
Claims use since Jan. 19, 1952.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 543,802. Evertaut Limited, Birmingham, England. Filed Dec. 9, 1947.

EVERTAUT

Applicant claims ownership of British Registrations Nos. 569,331 and 569,332, both dated June 9, 1936.
For Steel Furniture—Namely, Chairs, Seats, Stools, Cupboards, Storage Lockers, Filing Cabinets, Plan Files, Steel Shelving Units, Storage Racks, Upright Storage Bins, Umbrella Stands, and Hat-and-Coat Stands.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 581,887. Oran Company, Columbus, Ohio. Filed July 13, 1949. (Sec. 2f as to "Shallo-Well"—Additional evidence.)

ORAN
FLOOR SHALLO-WELL FURNACE

For Floor Furnaces.
Claims use since June 20, 1949.

Ser. No. 610,447. McQuay, Inc., Minneapolis, Minn. Filed Feb. 23, 1951.

SEASONMAKER

For Individually Controlled Air Conditioning Units for Filtering and Heating Air in Winter, Filtering, Cooling and Dehumidifying Air in Summer, and Supplying Fresh Air at All Times, of Both Ceiling and Floor Types for Rooms of Buildings Equipped With Central Plants for Supplying Cooling Mediums and Heating Mediums to Such Units in Remote Rooms.
Claims use since on or about May 25, 1950.

Ser. No. 624,158. Round Oak Company, Inc. of Indiana, Dowagiac, Mich. Filed Jan. 26, 1952.

ROUND OAK

Applicant claims ownership of Registrations Nos. 32,207, 55,854, and others.
For Hot Air Furnaces, Oil Burners, and Blowers Therefor.
Claims use since 1889.

Ser. No. 624,452. The Folsom Co., Dallas, Tex. Filed Feb. 2, 1952.

CIRKLAIR

Applicant claims ownership of Registration No. 369,053.
For Gas Burning Space Heaters.
Claims use since Mar. 1, 1938.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 591,505. National Automotive Parts Association, Detroit, Mich. Filed Jan. 26, 1950. COLLECTIVE MARK.

N·A·P·A
National Automotive Parts Association
Assurance of Quality

The words "Automotive Parts Association" and "Assurance of Quality" are disclaimed. Applicant claims ownership of Registration No. 211,037.
For Brake Lining, Clutch Facing, Pump Packing, Fan Belts, Rubber Hose Connections, and Rubber and Fabric Hose Connections, Gasket Packing and Gasket Sealing Materials, Sheet Cork for Packing, Oil Seal and Grease Retainers.
Claims use since April 1940.

Ser. No. 627,591. Mill Supplies, Inc., Orlando, Fla. Filed Apr. 4, 1952.

CAN-A-PAC

For Belting—Namely, Conveyor and Transmission Belting.
Claims use since December 1951.

Ser. No. 627,650. The Sponge Rubber Products Company, Shelton, Conn. Filed Apr. 5, 1952.

SPONGEX

Applicant claims ownership of Registrations Nos. 300,788, 321,895, and others.
For Gaskets.
Claims use since Jan. 17, 1952.

Ser. No. 628,032. The Associated Merchandising Corporation, New York, N. Y. Filed Apr. 14, 1952.

AMC

For Garden Hose.
Claims use since Feb. 20, 1952.

Ser. No. 628,583. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.

SIMANCO

Applicant claims ownership of Registrations Nos. 91,518, 91,911, and 175,840.
For Cord Belts, Composition Belts, and Power Transmission Belting.
Claims use since 1925.

CLASS 37

PAPER AND STATIONERY

Ser. No. 616,965. Montag Brothers, Inc., Atlanta, Ga. Filed July 26, 1951.

Montag's ACCURACY BOND

The surname "Montag's" and the word "Bond" are disclaimed.
For Looseleaf Fillers.
Claims use since 1940.

Ser. No. 624,979. Stocker Manufacturing Company, Netcong, N. J. Filed Feb. 14, 1952.

FASCO

Applicant claims ownership of Registration No. 553,384.
For Wrapping Paper.
Claims use since Oct. 10, 1951.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 611,915. The Post Printing and Publishing Company, Denver, Colo. Filed Mar. 28, 1951.

Empire

For Weekly Magazine Distributed as a Section of a Newspaper.
Claims use since Oct. 22, 1950, as shown; and since July 1946 as a part of "Rocky Mountain Empire."

Ser. No. 625,330. William D. Cabell, Chappaqua, N. Y. Filed Feb. 21, 1952.

Voters Voice

The term "Voters" is disclaimed.
For Publication Issued Approximately Nine Times Each Year, or Once Each Month While Congress Is in Session.
Claims use since Oct. 31, 1951.

CLASS 39

CLOTHING

Ser. No. 575,661. Nancy Garment Co., Kent, Wash. Filed Mar. 18, 1949.

Nancy Tidy Bib

The words "Tidy Bib" are disclaimed.
For Babies' Bibs.
Claims use since Aug. 30, 1948.

Ser. No. 613,555. Block Shoe Stores, Incorporated, Seattle, Wash. Filed May 5, 1951. (Sec. 2f.)

Sheerlite

For Women's and Girls' Hosiery.
Claims use since June 1935.

Ser. No. 614,721. Helena Rubinstein, Inc., New York, N. Y. Filed June 4, 1951.

HELENA RUBINSTEIN

The name "Helena Rubinstein" is that of the founder and president of the applicant corporation, consent of record.
For Stockings, Scarves, Gloves, Bathing Suits, Briefs and Bras for Gymnastic Use, All for Use by Women and Girls.
Claims use since 1928.

Ser. No. 617,763. M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass. Filed Aug. 16, 1951.

Tiara

The representation of the hosiery is disclaimed.
For Women's Hosiery.
Claims use since June 15, 1951, as shown; and since July 31, 1950, as to the word "Tiara."

Ser. No. 620,189. Lea Broker, Brooklyn, N. Y. Filed Oct. 19, 1951.

Lillian

For Women's Hosiery.
Claims use since Apr. 1, 1950.

Ser. No. 620,858. Irving Pincus & Brothers, Inc., Philadelphia, Pa. Filed Nov. 3, 1951. (Sec. 2f.)

Pemberton

Applicant claims ownership of Registration No. 302,971.
For Men's and Boys' Clothing—Namely, Coats, Vests, Trousers, Overcoats, Tuxedoes, and Military Uniforms.
Claims use since Jan. 1, 1932.

Ser. No. 621,414. J. J. Newberry Co., New York, N. Y. Filed Nov. 19, 1951.

Newcrest

For Men's Dress Shirts and Underwear for Men and Boys.
Claims use since Aug. 18, 1951.

Ser. No. 621,625. I. B. Kleinert Rubber Company, New York, N. Y. Filed Nov. 24, 1951.

"Diaper Dan"

The word "Diaper" is disclaimed.
For Infants' Garments—Namely, Shirts and Waistcoats.
Claims use since Nov. 1, 1951.

Ser. No. 621,626. I. B. Kleinert Rubber Company, New York, N. Y. Filed Nov. 24, 1951.

"Diaper Deb"

The word "Diaper" is disclaimed.
For Infants' Garments—Namely, Shirts and Waistcoats.
Claims use since Nov. 1, 1951.

Ser. No. 621,860. Bryan Full Fashioned Mills, Chattanooga, Tenn., now by merger and change of name, Beutiful Bryans, Inc., Chattanooga, Tenn., a corporation of Tennessee. Filed Nov. 30, 1951.

NEIGE

For Hosiery for Women and Girls.
Claims use since Nov. 15, 1951.

Ser. No. 622,151. Donovan Enterprises, Saugatuck, Conn. Filed Dec. 6, 1951.

THE PENNY BIB

The word "Bib" is disclaimed.
For Bibs for Children.
Claims use since Aug. 15, 1951.

Ser. No. 622,171 Queen Mode Plastic Corp., New York, N. Y. Filed Dec. 6, 1951.

QUEEN MODE RAIN WEAR

The words "Mode" and "Rain Wear" are disclaimed.
For Raincoats, Overshoes, and Rain Hats for Men, Women, Boys, and Girls.
Claims use since Nov. 15, 1951.

Ser. No. 622,263. I. B. Kleinert Rubber Company, New York, N. Y. Filed Dec. 8, 1951.

sav-a-wet

For Infants' Garments—Namely, Shirts and Waistcoats.
Claims use since Nov. 1, 1951.

Ser. No. 622,531. Famous Bathrobe Co., Inc., New York, N. Y. Filed Dec. 13, 1951.

WIPER-KINS

The word "Wiper" is disclaimed.
For Children's Bibs.
Claims use since Dec. 12, 1951.

Ser. No. 623,084. The Simon's Co., Inc., New York, N. Y. Filed Jan. 2, 1952.

Simber

For Women's Hosiery.
Claims use since Nov. 7, 1951.

Ser. No. 623,235. Burlington Mills Corporation, Greensboro, N. C. Filed Jan. 5, 1952.

BALLET

Applicant claims ownership of Registration No. 289,733.
For Women's Hosiery.
Claims use since July 17, 1951, on the mark as shown; and since July 17, 1931, on the mark in a different form.

Ser. No. 625,428. Joseph Love, Inc., New York, N. Y. Filed Feb. 23, 1952.

Love of California

The words "Of California" are disclaimed. Applicant claims ownership of Registrations Nos. 330,667 and 519,815.
For Children's Dresses, Blouses, and Skirts.
Claims use since Dec. 3, 1951.

Ser. No. 627,852. Westway Sportswear, Inc., Dallas, Tex. Filed Apr. 9, 1952.

PRISSY-MISSY

Applicant claims ownership of Registration No. 296,120.
For Toddlers', Children's, Girls', and Sub-Teens' Dresses, Suits, Sun-Dresses, Playsuits, Shorts, Coats, Jackets, Slacks, Pedal-Pushers, Skirts, and Blouses.
Claims use since Dec. 1, 1931.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 624,358. Plasti-Stitch, Inc., New York, N. Y. Filed Jan. 31, 1952.

plasti-stitch

For Precut Heat Seal Fabric Strips and Patches for Patching Holes in Fabrics, Hosiery, and Garments, by Applying Heat and Pressure.
Claims use since Nov. 15, 1950.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 602,711. Pepperell Manufacturing Company, Boston, Mass. Filed Aug. 24, 1950. (Sec. 2f—Additional evidence.)

Form Fit

For Bed Sheets.
Claims use since July 11, 1950.

Ser. No. 625,300. Philip Shlansky & Sons, Inc., New York, N. Y. Filed Feb. 20, 1952.

Donnybrook

Applicant claims ownership of Registrations Nos. 333,759, 333,972, and others.
For Textile Fabrics in the Piece of Wool, Worsted, Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since July 12, 1932.

Ser. No. 625,772. Tootal Broadhurst Lee Company Limited, Manchester, England. Filed Feb. 29, 1952.

TOOTISHA

Applicant claims ownership of British Registration No. 488,588, dated Feb. 16, 1928, and United States Registrations Nos. 318,410 and 534,564.
For Piece Goods of Synthetic Fibers.
Claims use since 1928 in Great Britain; and first used in commerce between Great Britain and the United States on Sept. 25, 1951.

Ser. No. 629,784. Forstmann Woolen Co., Passaic, N. J. Filed May 16, 1952.

JONCA

For Woolen Piece Goods.
Claims use since May 5, 1952.

Ser. No. 629,785. Forstmann Woolen Co., Passaic, N. J. Filed May 16, 1952.

MAJESTA

Applicant claims ownership of Registrations Nos. 208,786, 214,009, and 208,785.
For Woolen Piece Goods.
Claims use since May 5, 1952.

Ser. No. 629,786. Forstmann Woolen Co., Passaic, N. J. Filed May 16, 1952.

MIRELGA

Applicant claims ownership of Registration No. 188,668.
For Woolen Piece Goods.
Claims use since May 5, 1952.

Ser. No. 629,787. Forstmann Woolen Co., Passaic, N. J. Filed May 16, 1952.

MOIRLANA

For Woolen Piece Goods.
Claims use since May 5, 1952.

Ser. No. 629,788. Forstmann Woolen Co., Passaic, N. J. Filed May 16, 1952.

REYNARDA

For Woolen Piece Goods.
Claims use since May 5, 1952.

Ser. No. 629,790. Forstmann Woolen Co., Passaic, N. J. Filed May 16, 1952.

TELGORA

Applicant claims ownership of Registration No. 252,886.
For Woolen Piece Goods.
Claims use since May 5, 1952.

Ser. No. 629,808. The Millville Manufacturing Company, Philadelphia, Pa. Filed May 16, 1952.

TOWN CLOCK

For Piece Goods of Cotton, of Synthetic Fibres, and of Combinations Thereof.
Claims use since Apr. 30, 1952.

Ser. No. 629,809. The Millville Manufacturing Company, Philadelphia, Pa. Filed May 16, 1952.



The word "Fabrics" is disclaimed.
For Piece Goods of Cotton, of Synthetic Fibres, and of Combinations Thereof.
Claims use since Apr. 30, 1952.

Ser. No. 629,838. Celanese Corporation of America, New York, N. Y. Filed May 17, 1952.

CELANYL

Applicant claims ownership of Registrations Nos. 179,796 and 220,913.
For Textile Fabrics Made of Synthetic Fibers, Alone and in Admixture With Cotton, Wool, or Silk.
Claims use since May 8, 1952.

Ser. No. 630,197. Miron Mills, Incorporated, Clinton, Mass. Filed May 24, 1952.

FACADA

For Woolen Piece Goods.
Claims use since Feb. 21, 1952.

Ser. No. 630,198. Miron Mills, Incorporated, Clinton, Mass. Filed May 24, 1952.

MIRABEAU

For Woolen Piece Goods.
Claims use since Apr. 2, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 568,633. Johnson & Johnson, New Brunswick, N. J. Filed Nov. 12, 1948. (Sec. 2f.)

Johnson & Johnson

Applicant claims ownership of Registrations Nos. 88,088, 92,678, and others.
For Absorbent and Impregnated Absorbent Cellulose for Dental, Medical, Surgical, and Veterinary Use; Absorbent and Nonabsorbent Cotton; Adhesive Bandages in Strip and Roll Form for Dental, Medical, Surgical, and Veterinary Use; Specially Prepared, Pure Adhesives for Use on Human Beings and Animals; Adhesive Tape for Dental, Medical, Surgical, and Veterinary Use; Adhesive Tape Dispensers for Dental, Medical, Surgical, and Veterinary Use; Bandage Rolls for Dental, Medical, Surgical, and Veterinary Use; Cotton-Tipped Applicators; Cotton Tips; Cotton Wadding for Dental, Medical, Surgical, and Veterinary Use; Covers for Dental Brackets; Delivery Kits Comprising Dressings for Medical, Surgical and Veterinary Use, With Pins and Similar Accessories; Dental Floss and Tape; Disposable, Flexible, and Foldable Waste Receivers for Dental, Medical, Surgical, and Veterinary Use, as on the Dentist's Table in the Treatment of Patients for the Handling and Disposal of Surgical Supplies; Emergency Kits Comprising Surgical Dressings, Bandages, Adhesive Bandages, Gauze, Adhesive Tape, Cotton, Cotton Tips, Splints, Finger Cots, Tourniquets, Tongue Depressors, Antiseptics, Ointments, Inhalants, Ammonia, Iodine, Bicarbonate of Soda, Petrolatum, Castor Oil, Lotion, First Aid Booklets and Charts, Scissors, Tweezers, Drinking Cups, and Medicine Glasses (Graduated); Face Masks for Dental, Medical, Surgical, and Veterinary Use; Foot Bandages and Ankle Wraps; Foot Pads; Gauze in Roll, Strip, Folded, or Loose Form for Dental, Medical, Surgical, and Veterinary Use; Ligatures and Sutures; Unmedicated Plasters for Dental, Medical, Surgical, and Veterinary Use; Sanitary Napkins and Obstetric Pads; Splints; Surgical Dressings and Sponges; Surgical Supporters for the Lower Parts of the Torso; Tampons for the Nose and Other Cavities of the Body; Tongue Depressors; and Wood Applicators for Dental, Medical, Surgical and Veterinary Use; Operating Room Masks and Caps.
Claims use since April 1886.

Ser. No. 611,415. Fairchild Camera and Instrument Corporation, Jamaica, N. Y. Filed Mar. 16, 1951. (Sec. 2f.)

FAIRCHILD

For Chest Respirators, Cuirasses and Air Pumps for Chest Respirators, Fluoro-Recording Cameras and Roll Film Cassettes for Use in the Examination of the Human Body.
Claims use since June 15, 1945, as shown; and since Mar. 1, 1930, as to "Fairchild."

Ser. No. 614,663. Hy-Pure Laboratories, Inc., Cincinnati, Ohio. Filed June 2, 1951. (Sec. 2f.)

SUPERIOR

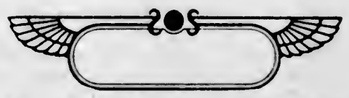
The lining is for shading only. Applicant claims ownership of Registration No. 293,583.
For Membranous and Rubber Prophylactic Articles for the Prevention of Contagious Diseases.
Claims use since on or about May 27, 1930.

Ser. No. 614,936. General Hospital Supply Service, Inc., New York, N. Y. Filed June 8, 1951.

General

For Automatic Oxygen Tents, Catheters, Crutches, Multi-Position Beds for Hospital Use, Hypodermic Needles, Infant Incubators, Infant Oxygen Hoods, Metal and Plastic Inhalers, Nebulizers, Oxygen Masks and Parts, Plastic Bassinets Adapted To Be Attached to Metal Racks for Use in Hospital Nurseries, Permanent and Disposable Oxygen Tent Canopies, Respirators, Surgical Rubber Tubing, Wheel Chairs.
Claims use since September 1943.

Ser. No. 617,166. Julius Schmid, Inc., New York, N. Y. Filed July 31, 1951.



Applicant claims ownership of Registrations Nos. 247,841, 258,759, and others.
For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Feb. 1, 1951.

Ser. No. 617,330. Youngs Rubber Corporation, New York, N. Y. Filed Aug. 3, 1951.



The drawing is lined for the color green. Exclusive right to the green background is disclaimed. Applicant claims ownership of Registrations Nos. 229,993, 332,398, 429,472, and 544,931.
For Prophylactic Polymeric Articles for the Prevention of Contagious Diseases.
Claims use since June 28, 1951.

Ser. No. 624,696. Millers Forge Mfg. Corp., New York, N. Y. Filed Feb. 8, 1952.

QWIP

For Manicuring Nail Clippers.
Claims use since Feb. 5, 1952.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 540,719. Ruggles & Rademaker Salt Company, Manistee, Mich., assignor to Morton Salt Company, Chicago, Ill., a corporation of Illinois. Filed Nov. 10, 1947. (Sec. 2f as to "4 Purpose.")



The words "Right & Ready" are disclaimed.
For Salt.
Claims use since Jan. 15, 1931.

Ser. No. 568,144. The Farm Minerals Company, Inc., Indianapolis, Ind. Filed Nov. 3, 1948.



The cross is colored red and blue. Applicant claims ownership of Registrations Nos. 426,397 and 511,148.
For Dog Food Including as Its Principal Ingredients Corn Flakes, Meat Scraps, Soybean Oil Meal Cake, Fish Meal, Brewer's Yeast, Tomato Pulp, Hominy Feed, Sodium Chloride, Bone Meal, Rock Phosphate, Charcoal, Calcium Carbonate, Copper Sulphate, and Mineral Oil.
Claims use since May 1, 1948.

Ser. No. 573,069. Allied Distributors, Inc., Gardena, Calif. Filed Jan. 31, 1949.



The representation of a chinchilla and the words "Chinchilla Chips" are disclaimed.
For Feed for Chinchillas in the Form of Pellets or Chips.
Claims use since Sept. 24, 1948.

Ser. No. 576,899. The O. P. Baur Confectionery Company, Denver, Colo. Filed Apr. 11, 1949. (Sec. 2f as to "Baur's.")

SINCE 1872 Baur's OF DENVER

The phrase "Of Denver" and the expression "Since 1872" are disclaimed. Applicant claims ownership of Registrations Nos. 178,828 and 537,128.

For Candies, Pies, Salted Nuts, Sandwiches, Cookies, Doughnuts; Cakes—Namely, Layer Cakes, Sponge Cakes, Fruit Cakes, and Swedish or French Cakes.

Claims use since 1946 on the mark as shown; and since 1906 on the word "Bauer's."

Ser. No. 595,524. Ab Walla Gard, Stockholm, Sweden. Filed Apr. 11, 1950.

HABLÉ

The word "Hablé" in Spanish means "I spoke" or "I did speak."

For Cheese.

Claims use since Mar. 28, 1950.

Ser. No. 605,910. Oscar Mayer & Co., Inc., Chicago, Ill. Filed Nov. 4, 1950. (Sec. 2f as to "Kohrs'.")

KOHRS' BEST-VAL

The notation "Best-Val" is disclaimed. Applicant claims ownership of Registration No. 124,394.

For Bacon.

Claims use since Aug. 5, 1950, on the mark as shown; and since Apr. 1, 1880, as to "Kohrs'."

Ser. No. 613,646. E. W. Kimbrough, doing business as Nampa Cider & Vinegar Company, Nampa, Idaho. Filed May 8, 1951.

K AND G

The outline of the label and the representation of an apple are disclaimed.

For Vinegar and Apple Juice.

Claims use since Apr. 27, 1951.

Ser. No. 614,639. Vollmer's Food Specialties, Inc., Ardmore, Pa. Filed June 1, 1951.



The words "To the City From the Farm" are disclaimed.

For Food Specialties—Namely, Crab Cutlets, Chicken Pies, Lobster Cutlets, Chicken Cutlets, Beef Pies, Deviled Clams, and Oyster Pies.

Claims use since 1941.

Ser. No. 617,548. N. S. Miller, doing business under the trade name Peninsular Foods, Jacksonville, Fla. Filed Aug. 10, 1951.



The word "Pak" and the map of Florida are disclaimed.

For Frozen Shrimp, Frozen Oysters, Frozen Scallops, Frozen Fillets, Frozen Clams, Frozen Crawfish, Frozen Lobster Tails, Frozen Deviled Crabs, Frozen Pompano, Frozen Trout, Frozen Whiting, Frozen Grouper, Frozen Snapper, Frozen Spanish Mackerel, and Frozen King Mackerel.

Claims use since Jan. 2, 1950.

Ser. No. 621,601. Donelson and Poston, also doing business as Better Maid Products Co., Memphis, Tenn. Filed Oct. 8, 1951. (Sec. 2f.)

BETTERMAID

Applicant claims ownership of Registrations Nos. 210,576 and 272,796.

For Canned Fruits, Canned Vegetables, Canned Fish, Coffee, Vinegar, Macaroni, Dried Fruits, Fruit Preserves, Jellies, Food Flavoring Extracts, Spices, Peanut Butter, Canned Evaporated Milk, Canned Berries, Canned and Bottled Olives; Horse, Mule, Stock, and Dairy Feeds; Rice, Dried Beans, Pancake Flour, Mustard and Mustard Bran, and Dry Non-Fat Milk Solids.

Claims use since June 17, 1923.

Ser. No. 621,621. B. Filippone and Co., Passaic, N. J. Filed Nov. 24, 1951.

Rosinella

Applicant claims ownership of Registrations Nos. 212,207 and 291,169.

For Canned Peas, Canned Tuna Fish, Canned Tomatoes, Salad Oil.

Claims use since Oct. 28, 1930.

Ser. No. 621,924. Union Starch & Refining Co., Columbus, Ind. Filed Nov. 30, 1951.

Magic Whip

The word "Whip" is disclaimed.

For Marshmallow.

Claims use since Oct. 25, 1951.

Ser. No. 625,629. William Ramos, doing business as Ramos Drug Company, Reno, Nev. Filed Feb. 27, 1952.

BLACK PHANTOM

For Ice Cream.

Claims use since Nov. 2, 1951.

Ser. No. 625,807. Jacksonville Milling Co., Jacksonville, Fla. Filed Mar. 1, 1952.



The figure shown in the drawing does not represent any particular living individual.

For Table Syrup (Made From Corn Syrup, Invert Sugar Syrup, and Pure Sugar Cane Syrup).

Claims use since Sept. 6, 1951.

Ser. No. 627,346. Mei Fung Company, San Francisco, Calif. Filed Mar. 31, 1952.

Society

For Canned Tuna Fish.

Claims use since July 12, 1951.

Ser. No. 627,495. George H. Christiansen, doing business as Chris Cross Products, Newark, N. J. Filed Apr. 3, 1952.



For Cocktail Sauce and Tartar Sauce.

Claims use since Mar. 20, 1947.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 621,864. The Campomat Rubber Co., Inc., Brooklyn, N. Y. Filed Nov. 30, 1951.

CAMP-O-LINK

The word "Link" is disclaimed.

For Rubber Link Mats.

Claims use since Oct. 15, 1951.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 606,962. The Armand Company, Des Moines, Iowa. Filed Nov. 27, 1950.

VIM

Applicant claims ownership of Registration No. 269,505.

For Face Cream.

Claims use since Nov. 27, 1928.

Ser. No. 609,597. May MacGregor, New York, N. Y., assignor to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Filed Feb. 3, 1951.

Ann Delafield

The mark consists of the words "Ann Delafield" which is the nom de plume of the said May MacGregor and is a facsimile of the nom de plume as signed by her.

For All Purpose Deep Cream, Astringent Lotion, Compressed Face Powder, Loose Face Powder, Cologne, Lip-Stick, Eye Shadow Cream, Mascara, and Eye Brow Pencils.

Claims use since Feb. 2, 1951.

Ser. No. 614,246. Frank Fitts, Wallingford, Pa. Filed May 23, 1951.



The words "Sunshine's a Joy With Skin Coating" are disclaimed.

For Liquid Sun-Filtering Skin Coating.

Claims use since Mar. 26, 1951.

Ser. No. 614,875. Emil Gantner, doing business as Bloc-Products Co., Zurich, Switzerland. Filed June 7, 1951.

Bloc-Men

For Products To Be Applied to the Face Before and After Shaving—Namely, Face Lotions, Skin Lotions, and Skin Creams.
Claims use since 1946 in Switzerland; and since August 1948 in commerce between Switzerland and the United States.

Ser. No. 617,379. Charles A. Susslin, doing business as Pep'mint Tooth Paste Co., Mount Vernon, N. Y. Filed Aug. 6, 1951.

PEP'MINT STICK

The word "Pep'mint" is disclaimed.
For Toothpaste.
Claims use since July 17, 1951.

Ser. No. 617,871. S. Harry Gainsley, doing business as Nofend Co., Minneapolis, Minn. Filed Aug. 20, 1951.

NOFEND

For Mouth Washes and Body Deodorants.
Claims use since on or about Aug. 17, 1951.

Ser. No. 621,388. Violet Clayson, doing business as The Figaro Co., Burbank, Calif. Filed Nov. 19, 1951.

FIGARO

Applicant claims ownership of Registration No. 433,479.
For Hair Conditioner and Hair Wave Set.
Claims use since Mar. 17, 1949.

Ser. No. 621,478. Israel A. Popelowsky, trading as Pop's Chemical Laboratory, Brooklyn, N. Y. Filed Nov. 20, 1951.

POP'S

For Hair Coloring.
Claims use since 1923.

Ser. No. 625,987. Lejon Freres, Inc., Philadelphia, Pa. Filed Mar. 5, 1952.

Neckline

For Skin Cream.
Claims use since Sept. 13, 1950.

Ser. No. 626,020. Bourjois, Inc., New York, N. Y. Filed Mar. 6, 1952.

FOLIES BERGERE

Applicant claims ownership of Registration No. 406,917.
For Perfume and Eau de Cologne.
Claims use since Feb. 12, 1952, on the mark as shown; and since Sept. 16, 1943, in a different form.

Ser. No. 626,050. Sage Laboratories, Inc., New York, N. Y. Filed Mar. 6, 1952.

LILLIAN Sage

The name shown is that of Lillian Sage, whose consent is of record. Applicant claims ownership of Registration No. 502,423.
For Hand Lotion and Toilet Water.
Claims use since Sept. 5, 1951.

Ser. No. 626,051. Sage Laboratories, Inc., New York, N. Y. Filed Mar. 6, 1952.

MAURICE Sage

The name is that of Maurice Sage, whose consent is of record. Applicant claims ownership of Registration No. 502,423.
For Hair Tonic and After Shaving Lotion.
Claims use since Sept. 5, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 591,811. Harry R. Stevens, trading as The Peerless Chemical Company, Baltimore, Md. Filed Feb. 1, 1950.

HAN-SUDS

The word "Suds" is disclaimed.
For Cleaning and Washing Powder for China, Silverware, and Glasses.
Claims use since February 1949.

Ser. No. 606,972. Diversified Sales Corporation, Chicago, Ill. Filed Nov. 27, 1950.

VOLTINE

For Cleaner and Penetrant for Use as a Cleaner for Use as a Cleaner for Electrical Equipment Machinery, Tools, Dies, and Refrigeration Units, as a Penetrant for Freezing Metal Parts and Preventing Rust and Repelling Moisture.
Claims use since May 15, 1950.

Ser. No. 612,046. VMB Chemical Co., Elmwood Park, Ill. Filed Mar. 30, 1951.

SOC

For Laundry Detergent in the Form of a Powder.
Claims use since Aug. 1, 1949.

Ser. No. 616,687. Armour and Company, Chicago, Ill. Filed July 20, 1951.

JET

For Soap.
Claims use since June 21, 1951.

Ser. No. 618,416. Virginia-Carolina Chemical Corporation, Richmond, Va. Filed Sept. 5, 1951.

V-C JET

Applicant claims ownership of Registrations Nos. 348,487 and 348,486.
For Synthetic Detergent in Powder Form.
Claims use since June 7, 1951.

Ser. No. 618,428. Virginia-Carolina Chemical Corporation, Richmond, Va. Filed Sept. 5, 1951.

V-C WON

Applicant claims ownership of Registrations Nos. 348,486 and 348,487.
For Synthetic Detergent in Powder Form.
Claims use since June 7, 1951.

Ser. No. 620,991. Amole, Incorporated, Tipp City, Ohio. Filed Nov. 8, 1951.

Helen Wood

The name "Helen Wood" is purely fanciful.
For Cream Shampoo and Liquid Shampoo.
Claims use since July 24, 1950.

Ser. No. 623,408. Merlen J. Ferguson, doing business as Commercial Laboratories, Owatonna, Minn. Filed Jan. 10, 1952.

SOK

For Liquid Soap and Detergent Composition for Use in the Laundry, on Dishes, Walls, Rugs, Floors, and Automobiles.
Claims use since Mar. 1, 1951.

Ser. No. 625,165. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

LATHEROL

For Liquid Soap.
Claims use since Apr. 1, 1915.

Ser. No. 625,166. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

SAVOLE

For Liquid Soap.
Claims use since Jan. 1, 1915.

Ser. No. 625,437. The Procter & Gamble Company, Cincinnati, Ohio. Filed Feb. 23, 1952. (Sec. 2f.)

CREAM SUDS

Applicant claims ownership of Registration No. 214,115.
For Sudsing Cleaner, Cleanser, and Detergent.
Claims use since July 1, 1906.

Ser. No. 625,595. Haas Miller Corporation, Philadelphia, Pa. Filed Feb. 27, 1952.

ACTIVOL

Applicant claims ownership of Registration No. 422,759.
For Metal Detergent.
Claims use since Mar. 5, 1936.

Ser. No. 625,598. Haas Miller Corporation, Philadelphia, Pa. Filed Feb. 27, 1952.

IMMUNOL

Applicant claims ownership of Registration No. 432,621.
For Cleaners for Textiles, Plastics, Wood, Linoleum, Ceramics, and Rubber, and Hand Cleaner.
Claims use since Apr. 19, 1946.

Ser. No. 628,277. Jewel Tea Co. Inc., Barrington, Ill. Filed Apr. 18, 1952.

Won

For Detergent Cleaning Agent in Powdered or Granulated Form Used for Washing Dishes, Laundry, and General Household Purposes.
Claims use since Dec. 8, 1948.

SERVICE MARKS

CLASS 106

MATERIAL TREATMENT

Ser. No. 607,089. Merit National Shrinking Works, Inc., New York, N. Y. Filed Nov. 29, 1950.

Meritone

For Textile Sponging and Shrinking.
Claims use since Sept. 8, 1950.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,720. Swim Suits for Misses and Women. Sea Modes, Inc., Brooklyn, N. Y.
Filed Dec. 3, 1946, Serial No. 513,641. Published May 13, 1952. Class 39.

444,721. Hats and Hat Bodies for Men, Women, and Children, Made of Felt. Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y.
Filed July 2, 1947, Serial No. 525,649. Published June 24, 1952. Class 39.

ACT OF 1946, PRINCIPAL REGISTER

564,540. Poultry Concentrate Consisting of a Mixture of Protein, Minerals and Vitamins for Admixture With Ground Grains and Middlings To Produce a Mash for Poultry, Etc. Archer-Daniels-Midland Company, Minneapolis, Minn.
Original filed, act of 1905, Nov. 5, 1946; amended to application under act of 1946, Principal Register, Nov. 20, 1948, Serial No. 513,864. Published July 4, 1950. Class 46.

564,541. Dairy Cleanser—Namely, a Detergent Washing Powder With a Wetting Agent Added, in Tablet and Powder Form, Particularly for Cleaning Dairy Utensils. Babson Bros. Co., Chicago, Ill.
Filed July 5, 1947, Serial No. 526,677. Published Oct. 19, 1948. Class 52.

564,542. Dairy Products Processing Machinery and Equipment Comprising Industrial Churns, Vats and Tanks, Etc. The Creamery Package Mfg. Company, Chicago, Ill.
Filed July 5, 1947, Serial No. 527,916. Published June 10, 1952. Class 23.

564,543. Wheat Flour. Standard Milling Company, Chicago, Ill.
Filed July 18, 1947, Serial No. 528,894. Published May 13, 1952. Class 46.

564,544. Hams, Bacon, and Sausage. Armour and Company, Chicago, Ill.
Filed July 29, 1947, Serial No. 529,853. Published June 24, 1952. Class 46.

564,545. Statuettes, Figurines, Plaques, Ornamental Cups, Medals, Emblems; Miniature Reproductions of Sport Balls—Namely, Baseballs, Golf Balls, Tennis Balls, Hand Balls, Soccer Balls, Volley Balls, Bowling Balls, Basket Balls, and Footballs; Badges. F. H. Noble & Co., Chicago, Ill.
Filed Oct. 9, 1947, Serial No. 537,347. Published June 10, 1952. Class 50.

564,546. Polishes for Glazed Surfaces, Such as Furniture, Floors, Automobile Bodies, and the Like. Walter E. Clayton, doing business under the name The Poly-Varn Co., San Francisco, Calif.
Filed Nov. 18, 1947, Serial No. 541,567. Published June 24, 1952. Class 4.

564,547. Shelled Nuts. Federal Nut Co. Inc., New York, N. Y.
Filed Oct. 22, 1947, Serial No. 544,658. Published June 24, 1952. Class 46.

564,548. Cheese Product in Powdered Form—Namely, American Cheese With an Added Emulsifier. Kraft Foods Company, Chicago, Ill.
Filed Feb. 27, 1948, Serial No. 550,706. Published July 1, 1952. Class 46.

564,549. Campaign Ribbon Bars. N. S. Meyer, Inc., New York, N. Y.
Filed Sept. 22, 1948, Serial No. 565,644. Published June 24, 1952. Class 50.

564,550. Chocolate Coatings for Dipping Ice Cream, Candy, and Small Cakes; Syrup Toppings; and Crushed Fruits for Use in Preparing and Serving Ice Cream, Bakery Goods, and Confections. Chillo Products Co., San Francisco, Calif.
Filed Oct. 1, 1948, Serial No. 566,212. Published June 10, 1952. Class 46.

564,551. Preparation for the Control of Diarrhea. Maltbie Laboratories, Inc., Newark, N. J., by change of name from The Maltbie Chemical Company.
Filed Oct. 2, 1948, Serial No. 566,353. Published June 3, 1952. Class 18.

564,552. Hypnotic or Sedative Preparations. Manufactures de Produits Chimiques du Nord Etablissements Kuhlmann, Paris, France.
Filed Sept. 21, 1948, Serial No. 566,828. Published June 10, 1952. Class 18.

564,553. Gummed Paper, Heat Seal Paper, and Gummed Papers That Remain Flat, All in the Nature of Narrow Strips of Gummed Paper Tape or Adhesive Paper Tape and Sold in Roll Form. Paper Manufacturers Co., Philadelphia, Pa.
Filed Oct. 19, 1948, Serial No. 567,206. Published July 8, 1952. Class 5.

564,554. Dairy, Hog, Livestock, Dog, and Poultry Feeds Composed Principally of Grains. Tex-O-Kan Flour Mills Co., doing business as Burrus Feed Mills, Fort Worth, Dallas, McKinney, and San Benito, Tex., now by change of name Burrus Mills, Incorporated.
Filed Jan. 13, 1949, Serial No. 572,139. Published June 17, 1952. Class 46.

564,555. Fresh Citrus Fruits. Gentile Bros. Company, Cincinnati, Ohio.
Filed Jan. 14, 1949, Serial No. 572,170. Published June 17, 1952. Class 46.

564,556. Kits Containing Flocculent Material, Adhesive, and Applicator Gun, for Use in Producing Simulated Velour Surfaces. Nels Irwin, doing business as Coast Industries, Los Angeles, Calif.
Filed Jan. 15, 1949, Serial No. 572,251. Published June 24, 1952. Class 50.

564,557. Peppermint Pattie Mint (Candy). York Cone Company, York, Pa.
Filed Feb. 10, 1949, Serial No. 573,697. Published July 1, 1952. Class 46.

564,558. Mint Flavored Candies. The O. P. Baur Confectionery Company, Denver, Colo.
Filed Mar. 1, 1948, Serial No. 550,892. Published June 24, 1952. Class 46.

564,559. Files and Rasps. Nicholson File Company, Providence, R. I.
Filed Dec. 22, 1947, Serial No. 552,365. Published June 3, 1952. Class 23.

564,560. Ice Cream and Sherbets. The Borden Company, New York, N. Y.
Filed May 8, 1948, Serial No. 556,553. Published May 13, 1952. Class 46.

564,561. Brake Adjusting Mechanism To Be Installed on Trucks and Buses. Roy H. Shively, Scranton, Pa.
Filed July 13, 1948, Serial No. 561,266. Published Oct. 31, 1950. Class 19.

564,562. Watches. Orano Corporation, New York, N. Y.
Filed Feb. 23, 1949, Serial No. 574,374. Published June 3, 1952. Class 27.

564,563. Chocolate Covered Marshmallows. The Shotwell Mfg. Co., Chicago, Ill.
Filed Feb. 25, 1949, Serial No. 574,548. Published July 1, 1952. Class 46.

564,564. Chocolate Covered Marshmallows. The Shotwell Mfg. Co., Chicago, Ill.
Filed Feb. 25, 1949, Serial No. 574,549. Published July 1, 1952. Class 46.

564,565. Cheese. Muther & Cie. A. G., Schupfheim, Switzerland.
Filed Feb. 1, 1949, Serial No. 574,867. Published July 1, 1952. Class 46.

564,566. Sportswear—Namely, Men's Slacks, Jackets, Shorts, Beach Robes, Sport Coats, Caps; and Women's Slacks, Jackets, Shorts, Halters, Robes, Dresses, Skirts, Hats. Phelps-Terkel, Inc., Los Angeles, Calif.
Filed Mar. 24, 1949, Serial No. 576,012. Published Apr. 29, 1952. Class 39.

564,567. Product Containing Processed Cereal, Wheat Flour, Cereal Gum Fractions, Lecithin, and Super-Glycerinated Oils Used by the Baking Trade for Stabilizing and Emulsifying Dough. Superior Brands, Inc., New York, N. Y.
Filed Apr. 5, 1949, Serial No. 576,668. Published June 24, 1952. Class 46.

564,568. Vaso-Dilator for the Treatment of Blood Hypertension. Rougier Freres, Montreal, Quebec, Canada.
Filed Apr. 20, 1949, Serial No. 577,456. Published June 3, 1952. Class 18.

564,569. Concentrated Whey Food Product for Livestock and Poultry. Triple F Foods Company, Wapakoneta, Ohio.
Filed May 2, 1949, Serial No. 578,112. Published Oct. 3, 1950. Class 46.

564,570. Extract of Strophanthin G Used in the Treatment of Congestive Heart Failure. Nativelle Inc., New York, N. Y.
Filed May 3, 1949, Serial No. 578,159. Published June 3, 1952. Class 18.

564,571. Meat Products—Namely, Boned Chicken, Boned Turkey, Smoked Turkey, Etc. John Sexton & Co., Chicago, Ill.
Filed May 12, 1949, Serial No. 578,715. Published June 10, 1952. Class 46.

564,572. Olive Oil in Cans and Bottles; Canned Fruits, Canned Vegetables, Etc. Lekas & Drivas, Inc., New York, N. Y.
Filed June 15, 1949, Serial No. 580,489. Published May 13, 1952. Class 46.

564,573. Organic Hydroperoxides. Phillips Petroleum Company, Bartlesville, Okla.
Filed June 23, 1949, Serial No. 580,945. Published June 3, 1952. Class 6.

564,574. Fresh Frozen, Smoked Frozen, Salted, and Canned Whole Fish and Parts Thereof, Including Fish Steaks and Fish Fillets; Fresh Frozen and Canned Lobsters and Lobster Meat. John Penny & Sons, Limited, Ramea, Newfoundland.
Filed June 29, 1949, Serial No. 581,285. Published June 24, 1952. Class 46.

564,575. Fresh Frozen and Smoked Frozen Whole Fish and Parts Thereof, Including Fish Fillets, Fish Steaks, Fish Cheeks, and Fish Tongues; Fresh Frozen Scallops, and Fresh Frozen Lobster Meat. John Penny & Sons, Limited, Ramea, Newfoundland.
Filed June 29, 1949, Serial No. 581,286. Published June 24, 1952. Class 46.

564,576. Knitted and Woven Apparel Fabrics of Wool Alone and of Wool in Substantial Part Combined With Cotton and Synthetic Fibres. Zlock Industries, Inc., doing business as Tex-Ranch Woolens, Inc., Brownwood, Tex.
Filed June 29, 1949, Serial No. 581,308. Published July 8, 1952. Class 42.

564,577. Knitted and Woven Apparel Fabrics of Cotton, Wool, and Synthetic Fibres. Zlock Industries, Inc., doing business as Tex-Ranch Woolens, Inc., Brownwood, Tex.
Filed June 29, 1949, Serial No. 581,309. Published July 8, 1952. Class 42.

564,578. Pharmaceutical Preparation for Use in the Treatment of Infectious Diseases Responding to Sulfamerazine and Sulfadiazine. Casimir Funk Laboratories, Inc., New York, N. Y.
Filed July 13, 1949, Serial No. 581,861. Published June 3, 1952. Class 18.

564,579. Tape Having Pressure Sensitive Adhesive Backing. Transparent Products Co. Inc., New York, N. Y.
Filed July 18, 1949, Serial No. 582,150. Published July 8, 1952. Class 5.

564,580. Bread. Koepplinger's Bakery, Detroit, Mich.
Filed July 25, 1949, Serial No. 582,485. Published June 10, 1952. Class 46.

564,581. Dried Fruits and Raisins. Naman Packing Company, Fresno, Calif.
Filed July 28, 1949, Serial No. 582,643. Published June 3, 1952. Class 46.

564,582. Unfilled Receptacles—Namely, Compacts, Rouge Compacts, Pill Boxes, Lipstick Cases, and Vanity Cases. Paul Flato Sales Corporation, New York, N. Y.
Filed Aug. 6, 1949, Serial No. 583,081. Published Aug. 1, 1950. Class 2.

564,583. Vitamins and Concentrated Nutritional Food Supplements in Tablet and Capsule Form for Therapeutic Use. The Q-V Corporation, Ferndale, Mich.
Filed Sept. 1, 1949, Serial No. 584,347. Published June 17, 1952. Class 18.

564,584. Medicinal Preparation To Be Applied Externally for Use in the Treatment of Rheumatism, Etc. Bengue Inc., Union City, N. J.
Filed Sept. 17, 1949, Serial No. 584,961. Published June 17, 1952. Class 18.

564,585. Watch Crystals Made of Molded Plastics. American Plasticraft Company, New York, N. Y.
Filed Sept. 26, 1949, Serial No. 585,305. Published June 3, 1952. Class 33.

564,586. Liquid Tonic Laxative. John E. Respondek, doing business under the name and style of Respondek Pharmacy, Hamtramck, Mich.
Filed Oct. 29, 1949, Serial No. 587,052. Published June 17, 1952. Class 18.

564,587. Oleomargarine. Shedd-Bartush Foods, Inc., Detroit, Mich.
Filed Nov. 16, 1949, Serial No. 587,913. Published June 24, 1952. Class 46.

564,588. Spot Removal Additive Used To Increase Solvent Effect, Prevent Drying Out and Assist in Rinsing. Patek and Co., San Francisco, Calif.
Filed Nov. 25, 1949, Serial No. 588,319. Published July 15, 1952. Class 52.

564,589. Mineral Composition for Absorbing Liquids Such as Water and Oil From Floors and Like Surfaces. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Nov. 25, 1949, Serial No. 588,351. Published July 15, 1952. Class 52.

564,590. Fruit Conserves, Jams, Marmalades, Preserved Fruits, Fruit Preserves, and Vegetable Preserves and Honey and Chutney. Wilkin & Sons Limited, Tiptree, Essex, England.
Filed Dec. 14, 1949, Serial No. 589,353. Published June 24, 1952. Class 46.

564,591. Watches, Clocks, and Parts Thereof. Reliable Stores Corporation, Baltimore, Md.
Filed Dec. 23, 1949, Serial No. 589,869. Published June 3, 1952. Class 27.

564,592. Flowing Fluid Jet Aspirators for Withdrawing and/or Pumping Fluids From Their Storage Zones for Industrial, and Research and Development Processes. Croll-Reynolds Co. Inc., Teterboro, N. J., and New York, N. Y.
Filed Jan. 9, 1950, Serial No. 590,548. Published June 3, 1952. Class 23.

564,593. Canned Fish—Namely, Anchovies. Fábrica de Conservas Madrugada, Limitada, Povoa de Varzim, Portugal.
Filed Jan. 4, 1950, Serial No. 590,784. Published June 17, 1952. Class 46.

564,594. Men's Outer Shirts Made of Part Nylon. Sutton Shirt Corp., New York, N. Y.
Filed Jan. 13, 1950, Serial No. 590,842. Published May 13, 1952. Class 39.

564,595. Liquid Chemical Preparation for the Treatment of Sores, Warts, and Pimples. Nick Skrmetta, Biloxi, Miss.
Filed Jan. 19, 1950, Serial No. 591,113. Published June 3, 1952. Class 18.

564,596. Restaurant, Lunch-Counter and Fountain Foods and Beverages—Namely, Frankfurter Sandwiches, Etc. Dewey's, Inc., Philadelphia, Pa.
Filed Feb. 6, 1950, Serial No. 592,018. Published July 8, 1952. Class 46.

564,597. Almond Oil, Arnica, Benzoin, Boric Acid, Calamine Lotion, Etc. Borun Bros., also doing business as Borbro Laboratories, Los Angeles, Calif.
Filed Feb. 13, 1950, Serial No. 592,357. Published June 3, 1952. Class 18.

564,598. Seasonings Containing Monosodium Glutamate for Soups, Gravies, Vegetables, and Meats. Julius A. Wunsch, doing business under the name The Cu-Lin Company, New York, N. Y.
Filed Mar. 22, 1950 Serial No. 594,365. Published July 1, 1952. Class 46.

564,599. Anti-Bacterial and Anti-Viral Preparations. American Cyanamid Company, New York, N. Y.
Filed Mar. 23, 1950, Serial No. 594,429. Published June 3, 1952. Class 18.

564,600. Canned Fish. Conservas Cerqueira, Limitada, Vigo, Spain.
Filed Mar. 27, 1950, Serial No. 594,694. Published June 24, 1952. Class 46.

564,601. Frozen Oysters Prepared for Frying and Frozen Cooked Crab Cakes. Blue Anchor Packing Co., Inc., Blue Anchor, N. J.
Filed Apr. 10, 1950, Serial No. 595,490. Published June 10, 1952. Class 46.

564,602. Capsules for Rheumatism, Neuritis, and Lumbago. William P. Mooney, doing business as Mooney's Pharmacy and Mooney's Laboratory, Milwaukee, Wis.
Filed Apr. 21, 1950, Serial No. 596,112. Published June 3, 1952. Class 18.

564,603. Cleaning Composition Adapted for Use in Cleaning Carpets, Rugs and Nap Fabrics and Partially Composed of Wood Fibre and Chemicals Having Cleansing Properties. Jerclaydon, Inc., Miami Beach, Fla.
Filed June 5, 1950, Serial No. 598,586. Published May 22, 1951. Class 52.

564,604. Dressings, Bandages, and Artificial Sponges for Medical and Surgical Uses. Societe Anonyme Novacel (Nouvelles Applications Chimiques et Cellulosiques), Paris, France.
Filed May 4, 1950, Serial No. 596,874. Published July 8, 1952. Class 44.

564,605. Photographic Apparatus—Namely, Lenses. Peerless Camera Stores, Inc., New York, N. Y., assignor to Photoptic Import Corporation, New York, N. Y., a corporation of New York.
Filed June 22, 1950, Serial No. 599,578. Published June 10, 1952. Class 26.

564,606. Bottled Pickles, Chili Peppers, Italian Style Peppers, Sweet Relish, and Hamburger Relish Comprised of Cucumbers, Cauliflower, Peppers, Seasoning, and Spices. Rudolph John Stenzel, doing business as R. Stenzel Pickle Products, San Leandro, Calif.
Filed June 22, 1950, Serial No. 599,599. Published May 13, 1952. Class 46.

564,607. Hush Puppy Mix. Thomas B. Chiles, doing business as Hush Puppie Mix Co., Lexington, Ky.
Filed June 27, 1950, Serial No. 599,814. Published May 20, 1952. Class 46.

564,608. Cookies and Candy and Chewing Gum. William Boyd, Beverly Hills, Calif.
Filed July 24, 1950, Serial No. 601,137. Published July 1, 1952. Class 46.

564,609. Chemicals Used for Industrial Metal Cleaning Processes. Chester Whitfield Smith, doing business under the name and style of Whitfield Chemical Company, Detroit, Mich.
Filed July 29, 1950, Serial No. 601,480. Published July 1, 1952. Class 52.

564,610. Men's Jackets. California Sportwear Company, Los Angeles, Calif.
Filed Aug. 2, 1950, Serial No. 601,600. Published May 20, 1952. Class 39.

564,611. Ice Cream, Cheddar Cheese, Creamed Cottage Cheese, Butter, Whipping Cream, Coffee Cream, Etc. L. S. Heath & Sons, Inc., Robinson, Ill.
Filed Aug. 8, 1950, Serial No. 601,904. Published June 10, 1952. Class 46.

564,612. Fresh Vegetables and Fresh Melons. Earl C. Recker, doing business as Earl C. Recker Company, Mesa, Ariz.
Filed Aug. 10, 1950, Serial No. 602,067. Published May 27, 1952. Class 46.

564,613. Hair Shampoo. Rilling Company, New York, N. Y., now by change of name The Rilling-Dermetics Company.
Filed Aug. 10, 1950, Serial No. 602,068. Published June 24, 1952. Class 52.

564,614. Preparation Used in the Treatment of Anemia in the Promotion of Growth in Children and as a Nutritional Factor. Melville Sahyun, doing business as Sahyun Laboratories, Santa Barbara, Calif.
Filed Aug. 17, 1950, Serial No. 602,339. Published June 3, 1952. Class 18.

564,615. Men's and Boys' Under and Outer Shirts, Underwear, Pajamas; Men's, Ladies', and Boys' Hosiery. Leo Gang, New York, N. Y.
Filed Aug. 30, 1950, Serial No. 602,940. Published Apr. 29, 1952. Class 39.

564,616. Pharmaceutical Preparation for the Treatment of Ailments of the Rheumatoid Type Including Rheumatism, Arthritis, Rheumatic Fever, Etc. Pan Pharmacals, Inc., New York, N. Y.
Filed Sept. 1, 1950, Serial No. 603,077. Published June 3, 1952. Class 18.

564,617. Rinsing and Cleaning Solvent for Removing Carbon, Wax Gum, Oil, Tar, and the Like From Metallic Parts. Fischer Industries, Inc., Cincinnati, Ohio.
Filed Sept. 7, 1950, Serial No. 603,226. Published June 24, 1952. Class 52.

564,618. Medicinal Substance of Use as a Sedative, an Antispasmodic, an Analgesic, and Antitussive, and as an Ocular Lymphgogue and Irritant. Merck & Co., Inc., Rahway, N. J.
Filed Sept. 19, 1950, Serial No. 603,744. Published June 10, 1952. Class 18.

564,619. Canned Citrus Fruits, and Canned Citrus Fruit Juices. Snively Groves, Inc., Winter Haven, Fla.
Filed Sept. 21, 1950, Serial No. 603,865. Published May 13, 1952. Class 46.

564,620. Powdered Pharmaceutical Containing Principally Adrenocorticotropic Hormone (ACTH) for Use in Relieving Pain. United Research Laboratories, Inc., Philadelphia, Pa.
Filed Sept. 29, 1950, Serial No. 604,239. Published July 1, 1952. Class 18.

564,621. Fresh Lettuce and Fresh Melons. Salinas Valley Vegetable Exchange, Salinas, Calif.
Filed Oct. 2, 1950, Serial No. 604,329. Published June 17, 1952. Class 46.

564,622. Men's Clothing—Namely, Suits, Trousers, Coats, and Topcoats. Joseph H. Cohen & Sons, Inc., New York, N. Y.
Filed Oct. 3, 1950, Serial No. 604,357. Published Apr. 29, 1952. Class 39.

564,623. Preparation Sold in Paste Form for Preserving and Renovating Leather Bags, Shoes, Suitcases, Briefcases, Leather Upholstery, and Leather Bindings. Alter Heller, New Rochelle, N. Y.
Filed Oct. 9, 1950, Serial No. 604,712. Published July 15, 1952. Class 6.

564,624. Bakery Products—Namely, Rolls, Buns, Doughnuts, Cakes, and Dessert Cups. The Grand Union Company, New York, N. Y.
Filed Oct. 12, 1950, Serial No. 604,778. Published June 24, 1952. Class 46.

564,625. Various Food Products—Namely, Fresh Apples, Strawberries, Raspberries; and Poultry—Namely, Fresh Dressed and Frozen Ducks and Geese. Southwind Orchards, Dakota, Minn.
Filed Oct. 25, 1950, Serial No. 605,448. Published July 1, 1952. Class 46.

564,626. Various Food Products—Namely, Fresh Apples, Strawberries, Raspberries; and Poultry—Namely, Fresh Dressed and Frozen Ducks and Geese. Southwind Orchards, Dakota, Minn.
Filed Oct. 25, 1950, Serial No. 605,449. Published July 1, 1952. Class 46.

564,627. Vitamin Preparation in Capsule Form. Dwarfies Corporation, Council Bluffs, Iowa.
Filed Nov. 3, 1950, Serial No. 605,851. Published June 17, 1952. Class 18.

564,628. Prepared Doughnut Mix. Ernest E. Lindsey, Los Angeles, Calif.
Filed Nov. 3, 1950, Serial No. 605,862. Published June 24, 1952. Class 46.

564,629. Hydraulic Cylinder Linear Actuators. Benjamin Lassman & Son, Pittsburgh, Pa.
Filed Nov. 9, 1950, Serial No. 606,146. Published June 10, 1952. Class 23.

564,630. Automobile Body Washing Composition Fortified With Emulsified Carnauba Wax. Denfis Chemical Laboratories, Inc., Brooklyn, N. Y.
Filed Nov. 10, 1950, Serial No. 606,209. Published July 15, 1952. Class 52.

564,631. Stabilizing Composition for Lactic Acid. M-S Mfg. Co., Chicago, Ill.
Filed Nov. 16, 1950, Serial No. 606,477. Published July 1, 1952. Class 6.

564,632. Aluminum Chloride for Use in Medicinal Astringents. Reheis Company, Inc., Berkeley Heights, N. J.
Filed Nov. 16, 1950, Serial No. 606,487. Published June 3, 1952. Class 18.

564,633. General Household and Industrial Cleanser for the Cleaning of Garage and Other Floors, Walls, Dishes, Clothes, Painted Surfaces and Ingredients for the Same. The Theobald Industries, Kearny, N. J.
Filed Nov. 18, 1950, Serial No. 606,637. Published July 1, 1952. Class 52.

564,634. General Household and Industrial Cleanser for the Cleaning of Garage and Other Floors, Walls, Dishes, Clothes, Painted Surfaces and Ingredients for the Same. The Theobald Industries, Kearny, N. J.
Filed Nov. 22, 1950, Serial No. 606,818. Published July 1, 1952. Class 52.

564,635. Lapel Pins and Brooches. Arthur Murray Enterprises, Inc., New York, N. Y.
Filed Dec. 2, 1950, Serial No. 607,229. Published June 3, 1952. Class 28.

564,636. Pulleys and Assemblies Comprising a Drive Belt and Two Pulleys, the Drive Belt Having Lugs on the Underside Thereof for Engagement With Corresponding Grooves in the Faces of the Pulleys. The American Pulley Company, Philadelphia, Pa.
Filed Dec. 5, 1950, Serial No. 607,279. Published June 3, 1952. Class 23.

564,637. Enzyme Preparation Which Accelerates the Diffusion and Absorption of Subcutaneously Injected Fluids and Drugs. Abbott Laboratories, North Chicago, Ill.
Filed Dec. 8, 1950, Serial No. 607,407. Published June 3, 1952. Class 18.

564,638. Crystalline Testosterone Hormone Preparation. Schering Corporation, Bloomfield, N. J.
Filed Dec. 12, 1950, Serial No. 607,607. Published June 3, 1952. Class 18.

564,639. Medicinal Preparation Containing Chlorophyll Used in Female Hygiene and for Treatment of Leucorrhea and Other Vaginal Disorders. Gynecic Laboratories, New York, N. Y., assignor to The Purdue Frederick Company, New York, N. Y., a corporation of New York.
Filed Dec. 14, 1950, Serial No. 607,670. Published June 3, 1952. Class 18.

564,640. Men's Neckties and Scarves. Dominique France, Inc., New York, N. Y.
Filed Dec. 16, 1950, Serial No. 607,742. Published May 27, 1952. Class 39.

564,641. Adrenal Cortical Hormone Preparation. Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J.
Filed Dec. 21, 1950, Serial No. 607,943. Published June 24, 1952. Class 18.

564,642. Food for Pet Fish Consisting of Eggs, Milk, Cod Liver Oil, Ground Shrimp, and Oatmeal. Andres M. Duvic, doing business as Blue Blood Aquatics, New Orleans, La.
Filed Dec. 21, 1950, Serial No. 607,945. Published July 1, 1952. Class 46.

564,643. Medicinal Composition of Antacids for the Treatment of Inflamed Conditions of the Alimentary Tract. Arlington Laboratories, Inc., Harrison and Arlington, N. J.
Filed Jan. 12, 1951, Serial No. 608,694. Published June 3, 1952. Class 18.

564,644. Reducing Tablets. The Hospitality Corporation, New Haven, Conn.
Filed Jan. 19, 1951, Serial No. 608,991. Published June 3, 1952. Class 18.

564,645. Medicinal Preparation for the Treatment of Vitamin Deficiencies. The Upjohn Company, Kalamazoo, Mich.
Filed Jan. 22, 1951, Serial No. 609,111. Published June 17, 1952. Class 18.

564,646. Protein Breakfast Food Made From Milk. Avoset Company, San Francisco, Calif.
Filed Jan. 23, 1951, Serial No. 609,117. Published June 17, 1952. Class 46.

564,647. Penicillin Containing Preparation for Use in Antibacterial Therapy. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Jan. 24, 1951, Serial No. 609,206. Published June 3, 1952. Class 18.

564,648. Estrogenic Preparation for Use in Hormonal Therapy. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Jan. 24, 1951, Serial No. 609,209. Published June 3, 1952. Class 18.

564,649. Jewelry Clasps and Jewelry Clips for All Jewelry For Personal Wear—Namely, Necklaces, Bracelets, Earrings, Brooches, Lockets. Weinreich Brothers Company, New York, N. Y.
Filed Jan. 25, 1951, Serial No. 609,266. Published June 3, 1952. Class 28.

564,650. Antihistaminic Preparation. American Cyanamid Company, New York, N. Y.
Filed Jan. 26, 1951, Serial No. 609,272. Published June 3, 1952. Class 18.

564,651. Continuous Belt Loader (of the Type Comprising Either a Tow-Type or a Self-Propelled Unit) for Loading Upon a Truck Gravel, Dirt, and the Like Arranged in Windrows. Athey Products Corporation, Chicago, Ill.
Filed Jan. 27, 1951, Serial No. 609,328. Published June 3, 1952. Class 23.

564,652. Vitamin Tonic in Liquid Form. Kegan Laboratory, Inc., Englewood, N. J.
Filed Feb. 1, 1951, Serial No. 609,483. Published June 3, 1952. Class 18.

564,653. The Following Medicinal and Pharmaceutical Preparations: Absorbent, Analgesic, Anesthetic, Etc. Winthrop-Stearns Inc., New York, N. Y.
Filed Feb. 9, 1951, Serial No. 609,896. Published July 1, 1952. Class 18.

564,654. Men's Topcoats and Overcoats. Brody Clothing Company, Boston, Mass.
Filed Feb. 14, 1951, Serial No. 610,045. Published May 27, 1952. Class 39.

564,655. Men's and Boys' Suits, Overcoats, Topcoats, Trousers, and Slacks. The H. A. Seinsheimer Company, Cincinnati, Ohio.
Filed Feb. 14, 1951, Serial No. 610,104. Published May 20, 1952. Class 39.

564,656. Frozen Peas. Green Giant Company, Le Sueur, Minn.
Filed Feb. 17, 1951, Serial No. 610,212. Published June 3, 1952. Class 46.

564,657. Medallions for Personal Wear, Finger Rings, Necklaces, and Bracelets. Robert J. Corcoran, doing business as Bubble-O-Bill Company, Beverly Hills, Calif., assignor to Bubble-O-Bill Corporation, Los Angeles, Calif., a corporation of California.
Filed Feb. 19, 1951, Serial No. 610,259. Published June 10, 1952. Class 28.

564,658. Antirheumatic, Analgesic, and Antipyretic Preparation. Geigy Company, Inc., New York, N. Y.
Filed Feb. 21, 1951, Serial No. 610,362. Published June 17, 1952. Class 18.

564,659. Blood Substitute Containing Polyvinylpyrrolidone. Abbott Laboratories, North Chicago, Ill.
Filed Feb. 23, 1951, Serial No. 610,398. Published July 1, 1952. Class 18.

564,660. Materials Used in Lithographic Printing—Namely, Lithographic Printing Plates and Offset Blankets. A. B. Dick Company, Niles, Ill.
Filed Feb. 23, 1951, Serial No. 610,428. Published June 3, 1952. Class 50.

564,661. Rolls of Fiber Glass, Synthetic Fibers and Cotton Wadding Used for Mechanical Dry-Type Ventilating Air Filters of the Portable Cell, Foldable Frame, and Stationary Pocket Types. American Air Filter Company, Inc., Louisville, Ky.
Filed Mar. 1, 1951, Serial No. 610,655. Published June 3, 1952. Class 1.

564,662. Combination Hand Cream and All-Purpose Cleaner for Cleaning the Hands, Wood, Metal, Plastic, Paint, Enamel, Porcelain, Silverware, Glass, Cloth, Tile, and Marble Surfaces. G. B. P. Co., West Springfield, Mass.
Filed Mar. 3, 1951, Serial No. 610,786. Published July 15, 1952. Class 52.

564,663. Combination Compass, Chain, and Knife Set. Imperial Knife Company, Inc., Providence, R. I.
Filed Mar. 13, 1951, Serial No. 611,228. Published June 3, 1952. Class 23.

564,664. Dress Shirts, Flannel Shirts, Sport Shirts, and Work Shirts for Men and Boys. Wearever Shirt Co., Inc., New York, N. Y.
Filed Mar. 14, 1951, Serial No. 611,321. Published May 20, 1952. Class 39.

564,665. Dairy Products—Namely, Fluid Milk, Fluid Cream, Etc. Knudsen Creamery Co. of California, Los Angeles, Calif.
Filed Mar. 16, 1951, Serial No. 611,430. Published June 24, 1952. Class 46.

564,666. Dairy Products—Namely, Chocolate Flavored Drink Consisting Mainly of Fluid Milk. Knudsen Creamery Co. of California, Los Angeles, Calif.
Filed Mar. 16, 1951, Serial No. 611,435. Published June 24, 1952. Class 46.

564,667. Jewelry for Personal Wear or Adornment—Namely, Bracelets, Earrings, Necklaces, Brooches, Lockets, Watch Bracelets; and the Following Items Made in Whole of, in Part of, or Plated With Precious Metal—Namely, Identification Tags and Religious Crosses. Levy-Anderson Co., Inc., Providence, R. I.
Filed Mar. 17, 1951, Serial No. 611,481. Published June 3, 1952. Class 28.

564,668. Salve for the Treatment of Skin Irritations and Eruptions. John W. Smith, Reynoldsville, Pa.
Filed Mar. 19, 1951, Serial No. 611,546. Published June 3, 1952. Class 18.

564,669. Fresh Vegetables and Fresh Melons. The Garin Company, Salinas, Calif.
Filed Mar. 30, 1951, Serial No. 612,012. Published May 20, 1952. Class 46.

564,670. Canned Herring. Aktiebolaget Sveriges Forenade Konservfabriker, Goteborg, Sweden.
Filed Mar. 8, 1951, Serial No. 612,104. Published July 8, 1952. Class 46.

564,671. Fresh and Frozen Strawberries. Oakland Strawberry Association, Incorporated, Oakland, Ky.
Filed Apr. 5, 1951, Serial No. 612,270. Published June 10, 1952. Class 46.

564,672. Coffee. William E. Cunningham, doing business as Cunningham Coffee Company, Los Angeles, Calif.
Filed Apr. 6, 1951, Serial No. 612,308. Published May 20, 1952. Class 46.

564,673. Display Devices Principally in the Form of Figures or Figurines Formed of Plastic. W. L. Stensgaard and Associates, Inc., Chicago, Ill.
Filed Apr. 18, 1951, Serial No. 612,836. Published June 24, 1952. Class 50.

564,674. Mixture of Liquid Lanolin Alcohols. Robinson-Wagner Co., Inc., New York, N. Y.
Filed Apr. 19, 1951, Serial No. 612,872. Published July 1, 1952. Class 6.

564,675. Cheese. Bel Paese Sales Co. Inc., New York, N. Y.
Filed Apr. 24, 1951, Serial No. 613,043. Published June 3, 1952. Class 46.

564,676. Preparation for the Treatment of Constipation and Liver Disturbances. International Affiliated Corp., Wilmington, Del.
Filed Apr. 24, 1951, Serial No. 613,073. Published June 17, 1952. Class 18.

564,677. Gelatin and Glycerine Used as or in the Manufacture of Medicines and Pharmaceutical Preparations. Swift & Company, Chicago, Ill.
Filed Apr. 27, 1951, Serial No. 613,247. Published June 3, 1952. Class 18.

564,678. Hand, Woodwork, and Floor Cleaner. Clarence M. Wynn, doing business as Wynoil Laboratories, Azusa, Calif.
Filed May 1, 1951, Serial No. 613,392. Published July 15, 1952. Class 52.

564,679. Adhesive Medicated Shields, or Pads for Corns, Callouses, and Bunyons. The Scholl Mfg. Co., Inc., Chicago, Ill.
Filed May 3, 1951, Serial No. 613,479. Published June 3, 1952. Class 18.

564,680. Canned Peas. Pictsweet Foods, Inc., sometimes doing business under the trade style Bozeman Canning Co., Mount Vernon, Wash.
Filed May 9, 1951, Serial No. 613,682. Published June 24, 1952. Class 46.

564,681. Textile Fabrics of Cotton, Wool, Synthetic Fibers, and Mixtures Thereof. Brand & Oppenheimer Incorporated, New York, N. Y.
Filed May 10, 1951, Serial No. 613,703. Published July 8, 1952. Class 42.

564,682. Iron, Iodine, and Mineral Preparation for Use as a Dietary Supplement or Other Medicinal Purposes. Makers of Kal, Inc., Los Angeles, Calif.
Filed May 16, 1951, Serial No. 613,934. Published June 17, 1952. Class 18.

564,683. Sheet Glass. American Window Glass Company, Pittsburgh, Pa.
Filed May 18, 1951, Serial No. 614,030. Published June 17, 1952. Class 33.

564,684. Laminated Glass. American Window Glass Company, Pittsburgh, Pa.
Filed May 18, 1951, Serial No. 614,031. Published June 17, 1952. Class 33.

564,685. Sheet Glass. American Window Glass Company, Pittsburgh, Pa.
Filed May 18, 1951, Serial No. 614,032. Published June 17, 1952. Class 33.

564,686. Sedative. Stayner Corporation, Berkeley, Calif.
Filed May 21, 1951, Serial No. 614,171. Published June 3, 1952. Class 18.

564,687. Elixir and Iron Tonic. S. & C. Products Company, Dallas, Tex.
Filed May 22, 1951, Serial No. 614,218. Published June 3, 1952. Class 18.

564,688. Boys' Dungarees. Hortex Manufacturing Co., Inc., El Paso, Tex.
Filed May 29, 1951, Serial No. 614,505. Published June 24, 1952. Class 39.

564,689. Shampoos. Eugène Schueller, Paris (Seine), France.
Filed May 29, 1951, Serial No. 614,517. Published July 15, 1952. Class 52.

564,690. Imitation Leather, Impregnated Fabrics Resembling Imitation Leather, and Tarpaulins. Färberei Schlieren A.-G., Zurich and Schlieren, Switzerland.
Filed June 1, 1951, Serial No. 614,642. Published June 24, 1952. Class 50.

564,691. Food Supplement Composed of a Concentrate of Ingredients Obtained From Natural Plant Sources Dissolved in a Base of Blackstrap Molasses. Health Champions, Inc., Detroit, Mich.
Filed June 2, 1951, Serial No. 614,660. Published June 3, 1952. Class 18.

564,692. Canned Vegetables and Canned Fruits. Hickmott Canning Co., Antioch, Calif.
Filed June 4, 1951, Serial No. 614,700. Published June 10, 1952. Class 46.

564,693. Cheese. Locatelli Inc., New York, N. Y.
Filed June 11, 1951, Serial No. 615,015. Published May 20, 1952. Class 46.

564,694. Dog Food. Baker Food Products Company, Chicago, Ill.
Filed June 12, 1951, Serial No. 615,042. Published July 1, 1952. Class 46.

564,695. Vitamin-Mineral Preparation. American Cyanamid Company, New York, N. Y.
Filed June 13, 1951, Serial No. 615,101. Published June 17, 1952. Class 18.

564,696. Men's and Boys' Ready-to-Wear Coats, Vests, Trousers, and Overcoats. B. Kuppenheimer and Co. Inc., Chicago, Ill.
Filed June 15, 1951, Serial No. 615,227. Published May 13, 1952. Class 39.

564,697. Knitting Machines. Kidde Manufacturing Co., Inc., Bloomfield, N. J.
Filed June 18, 1951, Serial No. 615,329. Published June 3, 1952. Class 23.

564,698. Knitting Machines. Kidde Manufacturing Co., Inc., Bloomfield, N. J.
Filed June 18, 1951, Serial No. 615,330. Published June 3, 1952. Class 23.

564,699. Men's Sport Shirts, Jackets, Pajamas, Slacks, and Basque Shirts. Vista Manufacturing Company, New York, N. Y.
Filed June 18, 1951, Serial No. 615,360. Published Apr. 29, 1952. Class 39.

564,700. Medicinal Preparations—Namely, an Aspirin (Acetyl-Salicylic Acid); Etc. Sutliff & Case Co., Inc., Peoria, Ill.
Filed June 19, 1951, Serial No. 615,419. Published June 3, 1952. Class 18.

564,701. Desiccated and Defatted Thyroid. Viobin Corporation, Monticello, Ill.
Filed June 19, 1951, Serial No. 615,424. Published June 17, 1952. Class 18.

564,702. Cheese. Cheese Producers' Marketing Association, Monroe, Wis.
Filed June 20, 1951, Serial No. 615,439. Published July 1, 1952. Class 46.

564,703. Cleaning Compounds for Removing Dirt and Foreign Substances From Bath Tubs, Sinks, Painted Walls, Woodwork, Tile, Stoves, Refrigerators, Glassware, Marble, and Floors. Benjamin Dewild, doing business under the style and title of B & E Manufacturing Co., Knoxville, Iowa.
Filed June 8, 1951, Serial No. 615,472. Published July 15, 1952. Class 52.

564,704. Ice Cream Cones. The Maryland Baking Company, Baltimore, Md.
Filed June 21, 1951, Serial No. 615,497. Published June 17, 1952. Class 46.

564,705. Costume Jewelry—Namely, Tie Clasp Pendants. Ernest R. Neyhard, Pottstown, Pa.
Filed June 21, 1951, Serial No. 615,499. Published June 17, 1952. Class 28.

564,706. Antiseptic Lotion for Use on Babies. Johnson & Johnson, New Brunswick, N. J.
Filed June 25, 1951, Serial No. 615,645. Published June 17, 1952. Class 18.

564,707. Liquid Sprayer. Miles Laboratories, Inc., Elkhart, Ind.
Filed June 27, 1951, Serial No. 615,786. Published June 3, 1952. Class 23.

564,708. Jewelry for Personal Adornment, Not Including Watches — Namely, Brooches, Bracelets, Earrings, Pendants, Lockets, and the Following Item Made in Whole of, in Part of, or Plated With Precious Metal—Namely, Religious Crosses. A. L. Lindroth Company, Attleboro Falls, Mass.
Filed June 30, 1951, Serial No. 615,939. Published June 17, 1952. Class 28.

564,709. Butter, Margarine, Cheese, and Ice Cream. Leo Peters, doing business under the trade name of Peters' Produce Co., Evanston, Ill.
Filed June 30, 1951, Serial No. 615,942. Published June 17, 1952. Class 46.

564,710. Butter, Margarine, Cheese, and Ice Cream. Leo Peters, doing business under the trade name of Peters' Produce Co., Evanston, Ill.
Filed June 30, 1951, Serial No. 615,943. Published June 17, 1952. Class 46.

564,711. Sweatbands for Hats. Herman Barz, Inc., New York, N. Y.
Filed July 2, 1951, Serial No. 615,967. Published May 20, 1952. Class 39.

564,712. Watch Bracelets (Not Including Watches). Speidel Corporation, Providence, R. I.
Filed July 3, 1951, Serial No. 616,060. Published June 17, 1952. Class 28.

564,713. Men's and Women's Costume Jewelry—Namely, Gold Plated, Gold Filled, Rhodium Finished With or Without Semi-Precious Stones; Etc. Exhibit Sales Company, also known as Exhibit Sales Co., Philadelphia, Pa.
Filed July 5, 1951, Serial No. 616,092. Published June 17, 1952. Class 28.

564,714. Grease and Dirt Remover for Hand and Body Cleansing Use. Morris M. Brand, doing business as Corpus Christi Grease Co., Corpus Christi, Tex.
Filed July 9, 1951, Serial No. 616,221. Published July 15, 1952. Class 52.

564,715. Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets. Wm. P. Goldman & Bros., Inc., New York, N. Y.
Filed July 10, 1951, Serial No. 616,289. Published Apr. 29, 1952. Class 39.

564,716. Helmets. Hawley Products Company, St. Charles, Ill.
Filed July 14, 1951, Serial No. 616,479. Published Apr. 29, 1952. Class 39.

564,717. Ladies' Hats Made in a Substantial Part of Felt. Simon Millinery Co., also doing business as Meadowbrook of California, San Francisco, Calif.
Filed July 16, 1951, Serial No. 616,572. Published Apr. 29, 1952. Class 39.

564,718. Bracelets, Wrist Watch Bracelets. Bruner-Ritter Inc., New York, N. Y.
Filed July 19, 1951, Serial No. 616,657. Published June 17, 1952. Class 28.

564,719. Bacon. Houston Packing Company, Houston, Tex.
Filed July 23, 1951, Serial No. 616,823. Published June 24, 1952. Class 46.

564,720. Men's and Boys' Hats and Caps. Champ Hats, Inc., Philadelphia, Pa.
Filed July 26, 1951, Serial No. 616,940. Published Apr. 29, 1952. Class 39.

564,721. Scarfs, Ties, Skirts, Blouses, Hats, Gloves Made of Leather, Fabric, or Combinations Thereof, Sweaters, Jerseys, and Jackets for Ladies. Custom Scarfs, Inc., New York, N. Y.
Filed July 31, 1951, Serial No. 617,141. Published Apr. 29, 1952. Class 39.

564,722. Men's, Women's, Misses', and Children's Caps, Hats, Etc. William Skinner & Sons, Holyoke, Mass., and New York, N. Y.
Filed Aug. 3, 1951, Serial No. 617,318. Published Apr. 29, 1952. Class 39.

564,723. Men's, Women's, and Children's Undershirts and Sport Shirts. D. L. McDonald, doing business as H. M. McDonald Company, Chicago, Ill.
Filed Aug. 14, 1951, Serial No. 617,669. Published May 20, 1952. Class 39.

564,724. Coffee. Atwood Coffee Company, Minneapolis, Minn.
Filed Aug. 15, 1951, Serial No. 617,691. Published July 1, 1952. Class 46.

564,725. Clocks. Century Product Works, Inc., New York, N. Y.
Filed Aug. 20, 1951, Serial No. 617,863. Published June 17, 1952. Class 27.

564,726. Chocolate Candy. Eugenia Tay, Brooklyn, N. Y.
Filed Aug. 20, 1951, Serial No. 617,893. Published June 17, 1952. Class 46.

564,727. Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets. Wm. P. Goldman & Bros., Inc., New York, N. Y.
Filed Aug. 21, 1951, Serial No. 617,914. Published Apr. 29, 1952. Class 39.

564,728. Men's and Boys' Wearing Apparel—Namely, Coats and Jackets Made of Wool, Cotton, Leather, Nylon, Rayon, and Combinations Thereof. Cape Ann Manufacturing Company, Gloucester, Mass.
Filed Aug. 24, 1951, Serial No. 618,025. Published Apr. 29, 1952. Class 39.

564,729. Neckwear—Namely, Neckties, Bow Ties, Cravats and Mufflers, and Men's Sport Shirts. Frank & Meyer Neckwear Co., St. Louis, Mo.
Filed Aug. 25, 1951, Serial No. 618,085. Published May 27, 1952. Class 39.

564,730. Hats for Men. Hat Corporation of America, Norwalk, Conn.
Filed Aug. 25, 1951, Serial No. 618,087. Published Apr. 29, 1952. Class 39.

564,731. Men's and Boys' Suits, Topcoats, Reefers, Overcoats, Sportcoats, and Men's Slacks. Pincus Bros. Incorporated, Philadelphia, Pa.
Filed Aug. 28, 1951, Serial No. 618,179. Published Apr. 29, 1952. Class 39.

564,732. Men's, Boys', Women's, and Children's Outer Garments — Namely, Suits, Coats, Vests, Pants, Slacks, Jackets, Skirts, Overcoats, Topcoats, Raincoats, Mackinaws, Dusters, Ulsters, Shirts, and Sport Shirts. The Silvertex Company, Philadelphia, Pa.
Filed Aug. 31, 1951, Serial No. 618,307. Published May 27, 1952. Class 39.

564,733. Luminous Coated Plastic Sheets and Strips. United Chemicals, Inc., Providence, R. I.
Filed Aug. 31, 1951, Serial No. 618,311. Published July 1, 1952. Class 50.

564,734. Cookies. Blue Jay Food Products Co., Inc., Brooklyn, N. Y.
Filed Sept. 7, 1951, Serial No. 618,479. Published June 24, 1952. Class 46.

564,735. Drill Bits. Avildsen Tools & Machines, Inc., doing business under the name of Century Drill & Tool Works, Chicago, Ill.
Filed Sept. 8, 1951, Serial No. 618,526. Published June 3, 1952. Class 23.

564,736. Vitamin B_{12}. Armour and Company, Chicago, Ill.
Filed Sept. 11, 1951, Serial No. 618,615. Published June 17, 1952. Class 18.

564,737. Mineral Mixture Adapted To Be Introduced Into Animal Feeds. General Mills, Inc., Wilmington, Del., and Minneapolis, Minn.
Filed Sept. 13, 1951, Serial No. 618,739. Published July 1, 1952. Class 18.

564,738. Women's Hats. John-Frederics, Inc., New York, N. Y.
Filed Sept. 13, 1951, Serial No. 618,744. Published Apr. 29, 1952. Class 39.

564,739. Fresh Dressed Poultry and Frozen Poultry. Rockingham Poultry Marketing Co-Operative, Inc., Broadway, Va.
Filed Sept. 14, 1951, Serial No. 618,817. Published June 24, 1952. Class 46.

564,740. Cookies, Crackers, and Coffee. Griggs, Cooper & Company, St. Paul, Minn.
Filed Sept. 19, 1951, Serial No. 618,962. Published June 17, 1952. Class 46.

564,741. Preparations in the Form of Cubes for Making Beef Broth, Chicken Broth, and Vegetable Broth. American Kitchen Products Company, Jersey City, N. J.
Filed Sept. 21, 1951, Serial No. 619,062. Published June 10, 1952. Class 46.

564,742. Animal Feed—Namely, Feed for Dogs and Pigs. Consolidated Products Company, Danville, Ill.
Filed Sept. 25, 1951, Serial No. 619,190. Published June 10, 1952. Class 46.

564,743. Artificial Flavoring Concentrates Producing Vanilla Flavoring for Foods. Twinkle Products Co., Elmira, N. Y.
Filed Oct. 2, 1951, Serial No. 619,527. Published July 1, 1952. Class 46.

564,744. Medical Preparation—Namely, an Antihistamine Cream With Tar. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Oct. 8, 1951, Serial No. 619,709. Published June 3, 1952. Class 18.

564,745. Medicated Lotion Intended for the Relief of Itching and Pain Resulting From Acute Oak, Ivy or Sumac Poisoning. Ez-Oke Co., also doing business as Ez-Oke Lab., Springfield, Oreg.
Filed Oct. 12, 1951, Serial No. 619,933. Published June 17, 1952. Class 18.

564,746. Cereal Breakfast Foods. Kellogg Company, Battle Creek, Mich.
Filed Oct. 22, 1951, Serial No. 620,314. Published June 3, 1952. Class 46.

564,747. Veterinary Medicines for Swine Dysentery. Prof. Dr. Georg Schmid, Wabern, Bern, Switzerland. Priority under Sec. 44(d). Swiss Registration No. 138,917, filed July 20, 1951.
Filed Oct. 22, 1951, Serial No. 620,325. Published June 17, 1952. Class 18.

564,748. Anti-Convulsant. American Cyanamid Company, New York, N. Y.
Filed Oct. 25, 1951, Serial No. 620,454. Published June 17, 1952. Class 18.

564,749. Canned Tuna. Hawaiian Tuna Packers, Limited, Honolulu, Territory of Hawaii.
Filed Oct. 26, 1951, Serial No. 620,504. Published May 6, 1952. Class 46.

564,750. Alfalfa in Its Natural State, Chopped Alfalfa, Dehydrated Alfalfa, and Alfalfa Meal for Use as a Feed for Poultry, Cattle, and Live Stock of All Kinds. Archer-Daniels-Midland Company, also doing business as The W. J. Small Company, Minneapolis, Minn.
Filed Nov. 26, 1951, Serial No. 621,648. Published July 8, 1952. Class 46.

564,751. Preparation Useful in the Treatment of Gastro Intestinal Conditions. The Wm. S. Merrell Company, Cincinnati, Ohio.
Filed Oct. 26, 1951, Serial No. 620,519. Published June 17, 1952. Class 18.

564,752. Peanut Butter, Potato Chips, and Candy. Los Angeles Nut House, also doing business as L. A. Nut House, Los Angeles, Calif.
Filed Oct. 29, 1951, Serial No. 620,611. Published May 6, 1952. Class 46.

564,753. Flux for Soldering or Brazing Containing Compounds of Hydrazine. Mathieson Chemical Corporation, Baltimore, Md.
Filed Nov. 16, 1951, Serial No. 621,324. Published June 17, 1952. Class 6.

564,754. Olive Oil. Jesse Ungar, doing business under the name and style of Comex Sales Company, New York, N. Y.
Filed Nov. 19, 1951, Serial No. 621,431. Published May 6, 1952. Class 46.

564,755. Cottonseed Meal, Cottonseed Cake, and Cottonseed Pellets for Use as, or as an Ingredient of, Foods for Livestock, Poultry, and Carnivorous Animals. Valley Co-Op Oil Mill, Harlingen, Tex.
Filed Nov. 26, 1951, Serial No. 621,691. Published June 17, 1952. Class 46.

564,756. Canned Fish. Bivar & Ca., Lda., Portimao, Portugal.
Filed Nov. 29, 1951, Serial No. 621,805. Published June 3, 1952. Class 46.

564,757. Weight Reducing Tablets. S. T. S. Inc., also doing business under the name Old Mission Laboratories, Burbank, Calif.
Filed Nov. 30, 1951, Serial No. 621,908. Published July 1, 1952. Class 18.

564,758. Printing Machines and Parts Thereof. Dapag (1943) Limited, London, England.
Filed Dec. 1, 1951, Serial No. 621,955. Published June 3, 1952. Class 23.

564,759. Chemical Preparation Useful as an Industrial Preservative for Glue, Etc. Lehn & Fink Products Corporation, Bloomfield, N. J.
Filed Dec. 4, 1951, Serial No. 622,086. Published July 1, 1952. Class 6.

564,760. Dressed Poultry. George A. Sears, McGregor, Minn.
Filed Dec. 12, 1951, Serial No. 622,415. Published June 17, 1952. Class 46.

564,761. Miticidal Composition. The Dow Chemical Company, Midland, Mich.
Filed Dec. 26, 1951, Serial No. 622,815. Published July 1, 1952. Class 6.

564,762. Stock Feed, Supplemental Dairy Feed, Hog and Pig Feed, Supplemental Pig and Hog Feed, Rabbit Feed, Calf Meal, Dog Feed, Sheep Feeds, Horse and Mule Feed, Oil Meal for Animal Feed Purposes, Turkey Feed. Flour Mills of America, Inc., doing business under the style name of Goodlander Mills Company, Kansas City, Mo., and Fort Scott, Kans.
Filed Dec. 26, 1951, Serial No. 622,817. Published July 1, 1952. Class 46.

564,763. Chemical Preparations for Exterminating Weeds. American Chemical Paint Company, Ambler, Pa.
Filed Dec. 28, 1951, Serial No. 622,915. Published July 1, 1952. Class 6.

564,764. Sherbet Frozen on a Stick. The Goshen Ice Cream Company, Goshen, Ind.
Filed Jan. 2, 1952, Serial No. 623,049. Published May 27, 1952. Class 46.

564,765. Fresh Vegetables. J. A. Wood, doing business as J. A. Wood Company, Phoenix, Ariz.
Filed Jan. 8, 1952, Serial No. 623,324. Published June 10, 1952. Class 46.

564,766. Textile Fabrics in the Piece, of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D. B. Fuller & Co., Inc., New York, N. Y.
Filed Jan. 9, 1952, Serial No. 623,347. Published May 13, 1952. Class 42.

564,767. Fresh Vegetables. Fred M. Yasukochi, San Luis Rey, Calif.
Filed Jan. 19, 1952, Serial No. 623,816. Published July 1, 1952. Class 46.

564,768. Canned Vegetables. The Larsen Company, Green Bay, Wis.
Filed Jan. 24, 1952, Serial No. 624,037. Published June 17, 1952. Class 46.

564,769. Candy. King Candy Company, Fort Worth, Tex.
Filed Jan. 30, 1952, Serial No. 624,275. Published June 17, 1952. Class 46.

564,770. Cocktail Napkins, Place Mat Napkin Sets, and Guest Towels. Celia F. Levine, Newton Center, Mass.
Filed Feb. 29, 1952, Serial No. 625,744. Published July 8, 1952. Class 42.

Service Marks

564,771. Architectural and Consultation Services in Building Construction, Remodeling and Repair. Ward Lumber Company, Aurora, Ill.
Filed Mar. 28, 1950, Serial No. 594,822. Published July 8, 1952. Class 100.

564,772. Advertising Goods and Services of Sponsors Through the Medium of a Radio and Television Quiz Program. Thomas-Varney Incorporated, New York, N. Y.
Filed July 1, 1950, Serial No. 600,158. Published July 8, 1952. Class 101.

564,773. Transportation of Household Goods and Miscellaneous Freight by Truck, and the Storage of Such Goods. Henry H. Stevens, Inc., Flint, Mich.
Filed May 21, 1951, Serial No. 614,172. Published July 8, 1952. Class 105.

564,774. Underwriting of Health and Accident, Life, and Group Insurance. The Paul Revere Life Insurance Company, Worcester, Mass.
Filed Aug. 15, 1951, Serial No. 618,519. Published July 8, 1952. Class 102.

Certification Marks

564,775. Chestnuts; Dried Fruits, Canned Fruits, and Fruits Preserved in Brine; Etc. Istituto Nazionale per il Commercio Estero, Rome, Italy.
Filed July 8, 1948, Serial No. 560,896. Published June 24, 1952. Class 46.

564,776. Woolen Fabrics Which Have Been Processed To Make Them Shrink Resistant. United States Rubber Company, New York, N. Y.
Filed June 24, 1950, Serial No. 599,724. Published Nov. 27, 1951. Class 42.

Collective Mark

564,777. Establishment and Maintenance of Membership in a National Fraternal Organization for Women and Furthering the Ideals Thereof. Supreme Temple Daughters of the Nile, Portland, Oreg., and Buffalo, N. Y.
Filed May 21, 1951, Serial No. 614,174. Published July 8, 1952. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

564,778. (Class 39. Clothing.) Pullman Pajamas, Inc., New York, N. Y. Original filed, act of 1905, June 28, 1947; amended to application under act of 1946, Principal Register, Mar. 8, 1948; amended to Supplemental Register, Nov. 24, 1951, Serial No. 525,106.

Miss Pullman

For Ladies' Pajamas.
Claims use since February 1946.

564,779. (Class 39. Clothing.) Pullman Pajamas, Inc. New York, N. Y. Original filed, act of 1905, June 28, 1947; amended to application under act of 1946, Principal Register, Mar. 8, 1948; amended to Supplemental Register Nov. 24, 1951, Serial No. 525,107.

Mister Pullman

For Men's Pajamas.
Claims use since February 1946.

564,780. (Class 48. Malt Beverages and Liquors.) G. Heileman Brewing Co., La Crosse, Wis. Original filed, act of 1946, Principal Register, Oct. 11, 1947; amended to application, Supplemental Register, July 24, 1952, Serial No. 537,587.



The pictures of the human figures are fanciful. Applicant claims ownership of Registrations Nos. 63,492, 381,905, 413,664, and 166,765.
For Beer.
Claims use since 1901.

564,781. (Class 32. Furniture and Upholstery.) Charlton Company, Inc., Fitchburg, Mass. Original filed, act of 1946, Principal Register, June 19, 1948; amended to application, Supplemental Register, Mar. 13, 1951, Serial No. 559,679.

SOFA-NITER

For Sofa Beds.
Claims use since Apr. 26, 1948.

564,782. (Class 46. Foods and Ingredients of Foods.) Midwest Dried Milk Company, Dundee, Ill. Original filed, act of 1946, Principal Register, Sept. 21, 1948; amended to application, Supplemental Register, Sept. 21, 1951, Serial No. 565,570.



The drawing is lined for the colors red and green. No claim is made to color.

For Feed Supplements in Dry and Solid Form Composed of Milk By-Products Such as Buttermilk, Whey, Casein and the Like, and Fortified With Vitamins and/or Other Nutritional Adjuncts Such as Fish or Animal By-Products, Cereals Fortified With Other Natural By-Products or Synthetic Material Having Nutritional Value.

Claims use since Mar. 15, 1948.

564,783. (Class 46. Foods and Ingredients of Foods.) H. B. Hunter, doing business as The Choc-O-Vita Company, Norfolk, Va. Original filed, act of 1946, Principal Register, Feb. 10, 1949; amended to application, Supplemental Register, May 8, 1951, Serial No. 574,659.

CHOC-O-VITA

Applicant claims ownership of Registration No. 180,070.

For Solid Food Product Composed of Chocolate, Cocoa, Sugar, and Milk Used as a Flavoring for Beverages.

Claims use since Mar. 1, 1923.

564,784. (Class 33. Glassware.) Charles R. Thiss, Minneapolis, Minn. Original filed, act of 1946, Principal Register, Mar. 11, 1949; amended to application, Supplemental Register, July 12, 1952, Serial No. 575,310.

Cockeyed

For Glassware — Namely, Cocktail Glasses, Cordial Glasses, and Tumblers.

Claims use since Dec. 20, 1948.

564,785. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Reynolds-Shaffer Co., Detroit, Mich. Original filed, act of 1946, Principal Register, Apr. 29, 1949; amended to application, Supplemental Register, Aug. 9, 1951, Serial No. 577,985.

Clearstream

For Chemical Feeders Designed To Be Connected to Water Lines.

Claims use since Mar. 7, 1949.

564,786. (Class 32. Furniture and Upholstery.) Melvin R. Roberts, doing business as Cal-Wood Manufacturing Co., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Sept. 13, 1949; amended to application, Supplemental Register, July 28, 1952, Serial No. 584,775.

CAL-WOOD

For Wood Furniture, Specifically Chairs and Settees.

Claims use since Feb. 20, 1947.

564,787. (Class 2. Receptacles.) Money-Meters, Inc., Providence, R. I. Original filed, act of 1946, Principal Register, Nov. 3, 1949; amended to application, Supplemental Register, July 14, 1952, Serial No. 587,282.

ROBOTCASHIER

For Metal, Non-Registering, Coin Deposit Units Comprising a Bottom Receiving Box and a Top, Windowed, Deposit Passageway.

Claims use since May 1949.

564,788. (Class 2. Receptacles.) Foodkeaper Co., Memphis, Tenn. Original filed, act of 1946, Principal Register, Mar. 20, 1950; amended to application, Supplemental Register, Mar. 19, 1952, Serial No. 594,267.

FOOD KEAPER

For Crop Storage Bins.

Claims use since Aug. 1, 1949.

564,789. (Class 32. Furniture and Upholstery.) Fischer Bed Spring Co., Pittsburgh, Pa. Original filed, act of 1946, Principal Register, Apr. 14, 1950; amended to application, Supplemental Register, July 29, 1952, Serial No. 595,717.

ROLL-A-CHAISE

For Metal Beds of the Folding Cot Type Provided With an Adjustable Head and Back Rest Enabling It To Be Used as a Chair and Which May Be Collapsed and Folded for Storage Purposes.

Claims use since Mar. 24, 1950.

564,790. (Class 39. Clothing.) Jonesville Products Company, Jonesville and Union, S. C. Original filed, act of 1946, Principal Register, May 6, 1950; amended to application, Supplemental Register, Aug. 6, 1951, Serial No. 596,999.

Rapidri

For Diapers.

Claims use since Mar. 29, 1950.

564,791. (Class 12. Construction Materials.) Ray Tyson, Wichita, Kans. Original filed, act of 1946, Principal Register, June 27, 1950; amended to application, Supplemental Register, Mar. 24, 1952, Serial No. 599,852.

MANSION-ETTE

For Prefabricated Houses.

Claims use since June 15, 1950.

564,792. (Class 31. Filters and Refrigerators.) Ranney Refrigerator Company, Greenville, Mich. Original filed, act of 1946, Principal Register, June 30, 1950; amended to application, Supplemental Register, Feb. 19, 1952, Serial No. 600,078.

SUPER CHILLER

For Pan Like Receptacles Commonly Used in Refrigerators To Hold Comestibles Commonly Stored in Refrigerators.

Claims use since March 1950.

564,793. (Class 18. Medicines and Pharmaceutical Preparations.) Colburn J. Smith, Taylorsville, Calif. Original filed, act of 1946, Principal Register, Aug. 1, 1950; amended to application, Supplemental Register, Aug. 21, 1951, Serial No. 601,578.

Tobac-O-Stop

For Medicament Directed to the Alleviation of the Tobacco Habit.

Claims use since Mar. 17, 1950.

564,794. (Class 2. Receptacles.) Rheem Manufacturing Company, Richmond, Va. Original filed, act of 1946, Principal Register, Aug. 8, 1950; amended to application, Supplemental Register, Aug. 28, 1951, Serial No. 601,948.

RHEEM-SEAM

Applicant claims ownership of Registration No. 264,137.

For Steel Drums, Drum Heads, and Drum Closures Therefor.

Claims use since Mar. 11, 1950.

564,795. (Class 12. Construction Materials.) Rosson-Richards Processing Co., Inc., Corpus Christi, Tex. Original filed, act of 1946, Principal Register, Sept. 8, 1950; amended to application, Supplemental Register, Oct. 16, 1951, Serial No. 603,310.

WATE-KOTE

For Prepared Weighting Material Such as Barite or Other Heavy Substance for Making Heavy Concrete.

Claims use since Feb. 11, 1950.

564,796. (Class 46. Foods and Ingredients of Foods.) Urban N. Patman, Inc., Los Angeles, Calif. Filed Sept. 11, 1950, Serial No. 603,415.

Patman's
GOOD TASTE IN meats

For Ground Beef, Veal Cutlets.

Claims use since Apr. 23, 1947.

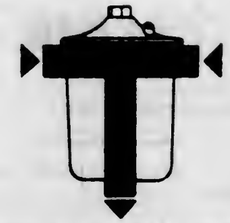
564,797. (Class 31. Filters and Refrigerators.) Robert Barclay, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 29, 1950; amended to application, Supplemental Register, May 3, 1952, Serial No. 604,183.

TWO-TANK-T

For Fuel Oil Filters Used To Filter Dirt, Sludge and Foreign Matter From Fuel Oil Supplied From a Tank to an Oil Burner.

Claims use since Sept. 21, 1950.

564,798. (Class 31. Filters and Refrigerators.) Robert Barclay, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 29, 1950; amended to application, Supplemental Register, May 3, 1952, Serial No. 604,184.



The representation of the goods is disclaimed.

For Fuel Oil Filters Used To Filter Dirt, Sludge and Foreign Matter From Fuel Oil Supplied From a Pair of Tanks to an Oil Burner, in Which the Filter Serves as a Union Connecting Fuel Feed Lines From the Tanks to a Line Supplying the Burner.

Claims use since Sept. 21, 1950.

564,799. (Class 14. Metals and Metal Castings and Forgings.) Monroe Sherman, Flushing, N. Y. Original filed, act of 1946, Principal Register, Oct. 24, 1950; amended to application, Supplemental Register, Feb. 12, 1952, Serial No. 605,375.

NOBLE

For Alloys of Silver, of Platinum, of Palladium, and of Gold, in Sheets, Laminations, Bar, Rod, Wire, Granular, Ingot, and Powder Form.

Claims use since July 18, 1950.

564,800. (Class 2. Receptacles.) Container Corporation of America, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 22, 1950; amended to application, Supplemental Register, Jan. 3, 1952, Serial No. 606,755.

CAN BAND

For Paper Board Boxes and Cartons.

Claims use since Sept. 1, 1950.

564,801. (Class 4. Abrasives and Polishing Materials.) Sylvester J. James, Milwaukee, Wis. Original filed, act of 1946, Principal Register, Nov. 30, 1950; amended to application, Supplemental Register, Mar. 13, 1952, Serial No. 607,128.

SHOOZ

For Shoe Polish.

Claims use since July 1, 1949.

564,802. (Class 2. Receptacles.) Rona Plastic Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 22, 1950; amended to application, Supplemental Register, Jan. 14, 1952, Serial No. 608,017.

RONA RONA RONA RONA
EVER WEAR

For Plastic Canisters for Storing Food.

Claims use since Sept. 14, 1950.

564,803. (Class 39. Clothing.) De Luxe Wash Suit Co. Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 14, 1951; amended to application, Supplemental Register, Mar. 14, 1952, Serial No. 610,047.

"CAMPER"

For Boys' Pants.
Claims use since November 1950.

564,804. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Newberry Cable Splicing Co., Huntington, W. Va. Original filed, act of 1946, Principal Register, Feb. 19, 1951; amended to application, Supplemental Register, Apr. 25, 1952, Serial No. 610,295.

Newberry

For Metal Clamp for Use in Splicing Cable.
Claims use since Nov. 1, 1946.

564,805. (Class 33. Glassware.) Louis M. Rosenfeld, doing business as Brooks Bar Corner, Baltimore, Md. Original filed, act of 1946, Principal Register, Apr. 17, 1951; amended to application, Supplemental Register, Apr. 3, 1952, Serial No. 612,761.

Steinie

For Drinking Glasses and Glass Bowls.
Claims use since Mar. 30, 1951.

564,806. (Class 39. Clothing.) Rosalind Underwear Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 18, 1951; amended to application, Supplemental Register, Mar. 10, 1952, Serial No. 612,826.

Puffs

For Panty Girdles.
Claims use since Feb. 15, 1951.

564,807. (Class 39. Clothing.) Barclay Knitwear Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 23, 1951; amended to application, Supplemental Register, June 12, 1952, Serial No. 614,236.

Fire-Brite

For Men's and Boys' Basque Shirts and Sweaters Made of Woven or Knit Fabric.
Claims use since May 3, 1951.

564,808. (Class 39. Clothing.) Nolde & Horst Company, New York, N. Y. Original filed, act of 1946, Principal Register, June 4, 1951; amended to application, Supplemental Register, May 24, 1952, Serial No. 614,711.

BEAUTY SPOT

For Ladies' Hosiery.
Claims use since May 8, 1951.

564,809. (Class 18. Medicines and Pharmaceutical Preparations.) Alex B. Del Bueno, Plainfield, N. J. Original filed, act of 1946, Principal Register, June 15, 1951; amended to application, Supplemental Register, Jan. 8, 1952, Serial No. 615,212.

kwik num

For Pharmaceutical Solution (Tincture) for Use as a Local (Topical) Antiseptic and Anesthetic When Applied to the Skin and Mucous Membranes.
Claims use since September 1949.

564,810. (Class 28. Jewelry and Precious-Metal Ware.) Speidel Corporation, Providence, R. I. Original filed, act of 1946, Principal Register, July 3, 1951; amended to application, Supplemental Register, July 18, 1952, Serial No. 616,059.

SUN VALLEY

For Watch Bracelets (Not Including Watches).
Claims use since June 13, 1951.

564,811. (Class 28. Jewelry and Precious-Metal Ware.) Speidel Corporation, Providence, R. I. Original filed, act of 1946, Principal Register, July 3, 1951; amended to application, Supplemental Register, July 18, 1952, Serial No. 616,061.

CATALINA

For Watch Bracelets (Not Including Watches).
Claims use since June 13, 1951.

564,812. (Class 51. Cosmetics and Toilet Preparations.) Reddi Pressure Products Inc., St. Louis, Mo. Original filed, act of 1946, Principal Register, July 13, 1951; amended to application, Supplemental Register, Mar. 10, 1952, Serial No. 616,450.

Redi-Shave

For Shaving Lather Packaged in Pressure Dispensers.
Claims use since Dec. 13, 1950.

564,813. (Class 39. Clothing.) Southern Manhattan Infantswear Co., New Orleans, La. Original filed, act of 1946, Principal Register, July 20, 1951; amended to application, Supplemental Register, Feb. 28, 1952, Serial No. 616,734.

Cute Togs OF NEW ORLEANS

For Infants' Diapers, Shirts, Pinafores, Sunsuits, Gowns, Pajamas, Robes, Panties, and Bedjackets.
Claims use since Jan. 1, 1950.

564,814. (Class 27. Horological Instruments.) Freudenheim Bros., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, July 31, 1951; amended to application, Supplemental Register, July 8, 1952, Serial No. 617,145.

FREUD

For Watches.
Claims use since June 22, 1951.

564,815. (Class 46. Foods and Ingredients of Foods.) Earl M. Nielsen, San Diego, Calif. Original filed, act of 1946, Principal Register, Aug. 3, 1951; amended to application, Supplemental Register, May 24, 1952, Serial No. 617,310.

Nielsen's

For Canned Tuna.
Claims use since Apr. 11, 1951.

564,816. (Class 32. Furniture and Upholstery.) The Chas. W. Breneman Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Aug. 15, 1951; amended to application, Supplemental Register, July 19, 1952, Serial No. 617,831.

STOP LITE

For Plastic Window Shades.
Claims use since July 2, 1951.

564,817. (Class 28. Jewelry and Precious-Metal Ware.) Sam S. Siebenberg, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 4, 1951; amended to application, Supplemental Register, July 14, 1952, Serial No. 619,588.

GRAND PRIZE

For Jewelry for Personal Wear, Not Including Watches—Namely, Diamond Finger Rings, Necklaces, Earrings, Bracelets, Brooches, Chokers, Ornamental Pins, and Chatelaines.
Claims use since Mar. 8, 1937.

564,818. (Class 17. Tobacco Products.) The Sterling Tobacco Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 13, 1951; amended to application, Supplemental Register, July 22, 1952, Serial No. 621,176.

Fairfax

For Cigarettes.
Claims use since on or prior to Oct. 13, 1950.

564,819. (Class 39. Clothing.) Allsheer Hosiery Mills, Inc., Liberty, N. C. Original filed, act of 1946, Principal Register, Dec. 12, 1951; amended to application, Supplemental Register, June 10, 1952, Serial No. 622,371.

Allsheer

For Ladies' Hosiery.
Claims use since July 24, 1950.

564,820. (Class 52. Detergents and Soaps.) The Procter & Gamble Company, Cincinnati, Ohio. Filed Aug. 1, 1952, Serial No. 632,581.

Tide

Applicant claims ownership of Registrations Nos. 424,339 and 550,286.
For Sudsing Soap-Like Detergents in Solid (Non-Liquid) Form for Household and Laundry Purposes.
Claims use since October 1946.

TRADE-MARK REGISTRATIONS RENEWED

38,538. JEWEL. Registered July 1, 1902. Swift and Company. Re-renewed July 1, 1952, to Swift & Company, Chicago, Ill., a corporation of Illinois. Lard, Lard Compounds, Shortenings, Pressed Meats, Etc. Class 46.

38,615. MICTUROL. Registered July 15, 1902. H. K. Mulford Co. Re-renewed July 15, 1952, to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland. Diuretics. Class 18.

86,756. "LUCKY" AND DESIGN. Registered May 28, 1912. Federal Milling Company, Lockport, N. Y. Re-renewed May 28, 1952, to International Milling Company, Minneapolis, Minn., a corporation of Delaware. Bread. Class 46.

86,773. TARVIA. Registered June 4, 1912. Barrett Manufacturing Company. Re-renewed June 4, 1952, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Raw and Partially Prepared Pitch, Tar and Asphalt for Road-Making, Paving, Waterproofing, Insulating and Kindred Purposes. Class 12.

86,872. "CARBOSOTA" AND DESIGN. Registered June 11, 1912. Barrett Manufacturing Company. Re-renewed June 11, 1952, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Coal Tar Oils. Class 15.

87,151. THE BOSS. Registered July 2, 1912. The Boss Manufacturing Company, Kewanee, Ill., a corporation of Illinois. Re-renewed July 2, 1952. Gloves and Mittens. Class 39.

88,452. TARVIA. Registered Sept. 24, 1912. Barrett Manufacturing Company. Re-renewed Sept. 24, 1952, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Pitch Prepared From Natural or Manufactured Bituminous Oils and Tars for Road and Pavement Construction, Roofing, Waterproofing, and Insulating. Class 12.

88,616. KNIFE HANDLE. Registered Oct. 8, 1912. Coes Wrench Company, Worcester, Mass. Re-renewed Oct. 8, 1952, to The Billings & Spencer Company, Hartford, Conn., a corporation of Connecticut. Wrenches. Class 23.

88,659. REPRESENTATION OF PIECE OF FELT WITH LONGITUDINAL PARALLEL LINES. Registered Oct. 15, 1912. Barrett Manufacturing Company. Re-renewed Oct. 15, 1952, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Roofing Felts and Papers. Class 12.

89,130. "PUTNAM" AND DRAWING. Registered Nov. 12, 1912. Monroe Drug Co. Re-renewed Nov. 12, 1952, to Monroe Chemical Company, Quincy, Ill., a corporation of Maryland. Preparation Capable of Dissolving in Gasoline, Naphtha, Benzole, or Like Solvent To Form With Said Solvent a Mixture for Cleaning Garments. Class 52.

287,012. "GAYFAIR". Registered Sept. 8, 1931. Charles Goldman, doing business as Atlas Mills. Renewed Sept. 8, 1951, to Atlas Fabrics Corp., New York, N. Y., a corporation of New York. All-Silk Crepe. Class 42.

291,701. SEALON. Registered Feb. 23, 1932. Oswego Falls Corporation, Fulton, N. Y., a corporation of New York. Renewed Feb. 23, 1952. Hood Caps for Containers. Class 50.

291,766. CLIPPER. Registered Feb. 23, 1932. Rodney Hunt Machine Co. Renewed Feb. 23, 1952, to Rodney Hunt Machine Co., Orange, Mass., a corporation of Massachusetts. Cloth Washing Machines. Class 24.

293,182. TODAY'S SPORT PARADE. Registered Apr. 12, 1932. United Press Associations, New York, N. Y., a corporation of New York. Renewed Apr. 12, 1952. Newspaper Feature Column. Class 38.

292,815. DON'T QUOTE ME. Registered Mar. 29, 1932. United Press Associations, New York, N. Y., a corporation of New York. Renewed Mar. 29, 1952. Newspaper Feature Column. Class 38.

293,798. REPRESENTATION OF FRONTIERSMAN AIMING RIFLE. Registered May 3, 1932. Federal Cartridge Corporation, Minneapolis, Minn., a corporation of Minnesota. Renewed May 3, 1952. Rifle Cartridges. Class 9.

293,954. "KODAPAK" AND DESIGN. Registered May 10, 1932. Eastman Kodak Company. Renewed May 10, 1952, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey. Thin, Transparent Sheeting of Cellulosic Composition. Class 50.

294,201. COROX. Registered May 24, 1932. Westinghouse Electric and Manufacturing Company. Renewed May 24, 1952, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania. Electric Heating Elements for Kitchen Stoves and for Bayonet Heaters Employed in Heating Liquids. Class 21.

294,205. MINALITE. Registered May 24, 1932. Westinghouse Electric and Manufacturing Company. Renewed May 24, 1952, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania. Incandescent Electric Lamps. Class 21.

294,474. SYMBOL O'LOVE. Registered May 31, 1932. Benjamin & Edward J. Gross Co., Inc. Renewed May 31, 1952, to J. R. Wood and Sons, Inc., New York, N. Y., a corporation of New York. Finger Rings and Mountings Therefor. Class 28.

294,611. DÉSIR DU COEUR. Registered June 7, 1932. Ybry, Inc. Renewed June 7, 1952, to Ybry, Inc., New York, N. Y., a corporation of New Jersey. Perfume, Toilet Water, and Face Powder. Class 51.

294,612. DEVINEZ. Registered June 7, 1932. Ybry, Inc. Renewed June 7, 1952, to Ybry, Inc., New York, N. Y., a corporation of New Jersey. Perfume, Toilet Water, and Face Powder. Class 51.

294,613. YBRY. Registered June 7, 1932. Ybry, Inc. Renewed June 7, 1952, to Ybry, Inc., New York, N. Y., a corporation of New Jersey. Perfume, Toilet Water, Face Powder, Etc. Class 51.

294,646. "BOGGS" AND DESIGN. Registered June 7, 1932. Boggs Manufacturing Corporation, Atlanta, N. Y., a corporation of New York. Renewed June 7, 1952. Potato Graders, Potato Seed Treating Machines, Bin Loaders, Etc. Class 23.

294,654. FIRST NATIONAL. Registered June 7, 1932. Robert O. Seevers, Minneapolis, Minn. Renewed June 7, 1952, to Schenley Distillers, Inc., New York, N. Y., a corporation of Delaware. Whiskey. Class 49.

294,838. VAPO-DUST. Registered June 7, 1932. California Spray-Chemical Corporation, Wilmington, Del., and Berkeley, Calif. Renewed June 7, 1952, to California Spray-Chemical Corporation, Richmond, Calif., a corporation of Delaware. Insecticides, Germicides, and Fungicides. Class 6.

294,920. FLEXARC. Registered June 14, 1932. Westinghouse Electric & Manufacturing Company. Renewed June 14, 1952, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania. Electric Welders. Class 21.

295,200. "WIFF" AND DESIGN. Registered June 21, 1932. Kops Bros., Inc., New York, N. Y., a corporation of New York. Renewed June 21, 1952. Corsets, Girdles, Brassières, Etc. Class 39.

295,309. ALBATROSS. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,312. ANDES. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,313. BALTIC. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,315. BOREAS. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,316. CENTAUR. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,318. CORONA. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,323. HECTOR. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,325. KYAK. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,326. "PHILLIPS 66" WITHIN SHIELD DESIGN. Registered June 28, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed June 28, 1952. Wearing Apparel—Namely, Men's Shirts and Trousers, Overalls or One-Piece Suits, Coats, Etc. Class 39.

295,614. AUTOFYRSTOP. Registered July 5, 1932. Merchant & Evans Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed July 5, 1952. Portable Hand Fire Extinguishers and Stationary Automatic Fire Extinguishers. Class 23.

295,663. BETH-CU-LOY. Registered July 5, 1932. Bethlehem Steel Company, Bethlehem, Pa., a corporation of Pennsylvania. Renewed July 5, 1952. Steel Sheets Having a Small Copper Content. Class 14.

295,717. MON AME. Registered July 12, 1932. Ybry, Inc. Renewed July 12, 1952, to Ybry, Inc., New York, N. Y., a corporation of New Jersey. Perfume, Toilet Water, and Face Powder. Class 51.

295,749. WYANOIDS. Registered July 12, 1932. John Wyeth & Brother Incorporated. Renewed July 12, 1952, to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware. Preparation for Use as Hemorrhoidal Suppositories. Class 18.

295,750. WYCONES. Registered July 12, 1932. John Wyeth & Brother Incorporated. Renewed July 12, 1952, to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware. Preparation for Use as Vaginal Suppositories. Class 18.

295,752. "VIGORON" ETC. AND DRAWING. Registered July 12, 1932. The Sydney Ross Co., Newark, N. J. Renewed July 12, 1952, to The Sydney Ross Co., New York, N. Y., a corporation of New Jersey. General Tonic Preparation. Class 18.

295,762. "SY-LAC" AND DESIGN. Registered July 12, 1932. The Anacin Company, Chicago, Ill. Renewed July 12, 1952, to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware. Dentifrices and Mouth Washes. Class 51.

295,893. SUPERFUEL. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,906. CONDOR. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,908. LINDEN. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,909. MAGNUS. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,912. OMAR. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,914. PORTHOS. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,916. THETIS. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,918. VOLGA. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

295,920. ZEBUS. Registered July 19, 1932. Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware. Renewed July 19, 1952. Motor Fuel Oils and Lubricating Oils. Class 15.

296,340. "AMERICAN" ETC. AND DRAWING. Registered Aug. 2, 1932. American Slicing Machine Company, Chicago, Ill., a corporation of New York. Renewed Aug. 2, 1952. Slicing Machines. Class 23.

296,507. DUO-FORGED. Registered Aug. 9, 1932. The Billings & Spencer Company, Hartford, Conn., a corporation of Connecticut. Renewed Aug. 9, 1952. Golf Clubs. Class 22.

296,742. ROYAL. Registered Aug. 16, 1932. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Aug. 16, 1952. Salad Dressing. Class 46.

296,961. "NOR-SO-NA" AND DRAWING. Registered Aug. 30, 1932. William Isaac Grove, doing business as Fort Defiance Mills, Fort Defiance, Va. Renewed Aug. 30, 1952. Self-Rising Flour. Class 46.

297,053. NUIT PROFONDE. Registered Aug. 30, 1932. Frank C. Reilly, New York, N. Y. Renewed Aug. 30, 1952, to Julio Lupus de Elorza, Newark, N. J. Astringents, Astringent Cerates, Bleach Creams, Etc. Class 51.

297,152. MONARCH. Registered Sept. 6, 1932. Malleable Iron Range Company, Beaver Dam, Wis., a corporation of Wisconsin. Renewed Sept. 6, 1952. Electric Refrigerators. Class 31.

297,989. HYDRO-SEAL. Registered Oct. 11, 1932. The Allen-Sherman-Hoff Company, Philadelphia, Pa. Renewed Oct. 11, 1952, to The Allen-Sherman-Hoff Company, Wynnewood, Pa., a corporation of Pennsylvania. Pumps and Parts Thereof, Particularly Centrifugal Pumps. Class 23.

298,427. DORIC. Registered Oct. 25, 1932. The Wahl Company. Renewed Oct. 25, 1952, to Eversharp, Inc., Chicago, Ill., a corporation of Delaware. Fountain Pens and Pencils. Class 37.

298,484. "PARIS FASHIONS" ETC. AND PARALLEL UNDERLINES. Registered Oct. 25, 1932. Wohl Shoe Company, St. Louis, Mo., a corporation of Missouri. Renewed Oct. 25, 1952. Women's and Misses' Shoes, Boots, Etc. Class 39.

298,552. CHAMPION. Registered Nov. 1, 1932. Champion Spark Plug Company. Renewed Nov. 1, 1952, to Champion Spark Plug Company, Toledo, Ohio, a corporation of Delaware. Spark Plug Testers. Class 26.

298,579. "PIE-PAK" ETC. AND DESIGN. Registered Nov. 1, 1932. George E. Damrow, Brooklyn, N. Y. Renewed Nov. 1, 1952, to Pie-Pak Company, Incorporated, Hoboken, N. J., a corporation of New Jersey. Paper Cartons. Class 2.

298,650. REPRESENTATION OF WOMAN CLEANING TOILET BOWL. Registered Nov. 1, 1932. The Hygienic Products Company, Canton, Ohio, a corporation of Ohio. Renewed Nov. 1, 1952. Cleaning Powder for Automobile Radiators. Class 52.

298,651. SANI-FLUSH. Registered Nov. 1, 1932. The Hygienic Products Company, Canton, Ohio, a corporation of Ohio. Renewed Nov. 1, 1952. Cleaning Powder for Automobile Radiators. Class 52.

298,803. DERRYDALE. Registered Nov. 8, 1932. American Stores Company, Philadelphia, Pa., a corporation of Delaware. Renewed Nov. 8, 1952. Butter. Class 46.

298,869. CARFAX. Registered Nov. 8, 1932. Oxford Paper Company, New York, N. Y., a corporation of Maine. Renewed Nov. 8, 1952. Paper for Printing. Class 37.

298,907. ARISTOVAC. Registered Nov. 15, 1932. Central Scientific Company, Chicago, Ill., a corporation of Illinois. Renewed Nov. 15, 1952. Vacuum Pumps. Class 23.

298,945. LINOGLOSS. Registered Nov. 15, 1932. Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania. Renewed Nov. 15, 1952. Polishing Preparation for Hard Surface Floor Covering. Class 4.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

46,229. GRAY'S GLYCERINE TONIC COMP. ETC. Registered Sept. 12, 1905. The Purdue Frederick Co., New York, N. Y. Tonic Compound. Class 18 (formerly Class 6). Corrected as follows: In the renewal certificate, lines 1 and 7, "Co." should be *Company*.

559,660. HAEMOSCOPE. Registered June 3, 1952. Morris Instrument Corporation, New York, N. Y. Blood Testing Apparatus for Determining Haemoglobin Content, the Number of Red and White Cells, and the Mean Diameter of Red Cells. Class 26. Corrected as follows: In the certificate, lines 4 and 14, and in the heading to the printed statement, line 2, for "Halmoscope" read *Haemoscope*;

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 293,904. Registered May 10, 1932. Heveatex Corporation, Malden, Mass., a corporation of Massachusetts. Republished by registrant, present address Melrose, Mass.

HEVEATEX

For Raw and Processed Rubber Latex.
Claims use since about January 1930.

CLASS 18

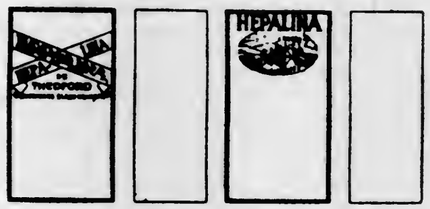
MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 294,029. Registered May 17, 1932. The Chattanooga Medicine Company, Chattanooga, Tenn., a corporation of Tennessee. Republished by registrant.



The words "Foreign Trade Name," "Successors to" and "Chattanooga, Tenn." are disclaimed.
For Liver Cathartic and Laxative Medicine.
Claims use since May 1926.

Reg. No. 295,452. Registered July 5, 1932. The Chattanooga Medicine Company, Chattanooga, Tenn., a corporation of Tennessee. Republished by registrant.



For Liver Medicine.
Claims use since Sept. 10, 1911.

Reg. No. 297,067. Registered Aug. 30, 1932. L. Sonneborn Sons, Inc., New York, N. Y., a corporation of Delaware. Republished by registrant.

FONOLINE

For Petrolatum for Medicinal Purposes.
Claims use since Sept. 24, 1929.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 294,664. Registered June 7, 1932. Geo. H. Lawrence Limited, Sheffield, England, a company incorporated in the United Kingdom of Great Britain. Republished by registrant.

LAUREL

For Cutlery—Namely, Razors, Safety Razors, and Safety Razor Blades.
Claims use since Sept. 5, 1919.

CLASS 37

PAPER AND STATIONERY

Reg. No. 279,422. Registered Jan. 13, 1931. Hano Paper Corporation, New York, N. Y. Republished by Hano Paper Co., Inc., New York, N. Y., a corporation of New York.

AIR-FLIGHT

For Paper Products—Namely, Bond Paper for Writing and Printing Purposes, Etc.
Claims use since May 5, 1930.

Reg. No. 294,363. Registered May 24, 1932. A. B. Dick Company, Chicago, Ill., a corporation of Illinois. Republished by registrant, present address Niles, Ill.

WESTLAND

For Paper (Consisting of Sheets Adapted To Receive Copy, Writing, or Impressions).
Claims use since 1930.

Reg. No. 297,913. Registered Oct. 4, 1932. The Wahl Company, Chicago, Ill. Republished by Eversharp, Inc., Chicago, Ill., a corporation of Delaware.

EVERSHARP

For Fountain Pens.
Claims use since Sept. 24, 1930.

CLASS 39

CLOTHING

Reg. No. 290,746. Registered Jan. 12, 1932. Regal Knitting Co. Inc., New York, N. Y. Republished by Regal Knitwear Co., Inc., New York, N. Y., a corporation of New York.

IGLOO

For Garments—Namely, Snow Suits for Children From 1 to 16 Years of Age.
Claims use since July 23, 1931.

Reg. No. 297,564. Registered Sept. 20, 1932. Melville Shoe Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

WONDERBILT

For Shoes of Leather, Rubber, or Fabric Construction, or a Combination of These Materials.
Claims use since Apr. 12, 1932.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 287,287. Registered Sept. 15, 1931. Hampden Brewing Company, Chicopee, Mass., a corporation of Massachusetts. Republished by registrant, present address Willimansett, Mass.



The words "Hampden" and "Stock Ale" are disclaimed apart from the mark as shown. The drawing is lined for gold and red.
For Malt Beverages Containing Less Than One-Half of One Per Cent Alcohol by Volume.
Claims use since 1918.

REISSUES

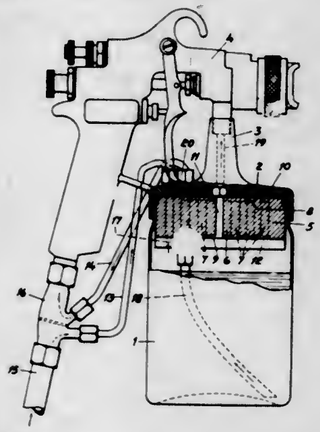
SEPTEMBER 30, 1952

23,551
PAINT PRESSURE BOX WITH HEAT EXCHANGER

Eskil Anders August Axelson and Carl Åke Löfgren, Stockholm, Sweden, assignors to Svenska Maskinaktiebolaget Greiff, Stockholm, Sweden, a joint-stock company of Sweden

Original No. 2,499,447, dated March 7, 1950, Serial No. 591,814, May 3, 1945. Application for reissue March 5, 1951, Serial No. 213,990. In Sweden January 18, 1945

1 Claim. (Cl. 299—89)



10. The combination with a spray gun, a paint feeding line and a paint source which is in communication with a pressure source, of a heat exchanger comprising a first channel system remote from the paint in the paint source and intermediate the paint feeding line and the gun and communicating with a source of hot compressed gas and with the gun, a second dispensing channel system communicating with the paint feeding line and with the gun, the two channel systems being of substantial length to transfer the necessary heat, and in intimate heat exchange relationship, and means for transferring the hot compressed gas from said first channel system, after the hot gas passes therethrough, to said gun for atomizing the heated paint.

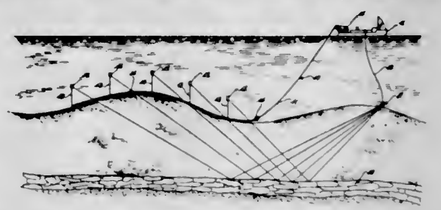
23,552
APPARATUS FOR MARINE SEISMIC PROSPECTING

John J. Babb, Calgary, Alberta, Canada, and Neal J. Smith, New Orleans, La.; said Babb assignor to Texas Instruments Incorporated, a corporation of Delaware, and said Smith assignor to The California Company, New Orleans, La., a corporation of California

Original No. 2,544,819, dated March 13, 1951, Serial No. 771,344, August 29, 1947. Application for reissue March 12, 1952, Serial No. 276,108

7 Claims. (Cl. 177—352)

1. A seismometer spread for submarine prospecting that comprises a plurality of seismometer units each including a seismometer for converting seismic signals into electrical signals and flotation means which taken with the seismometer will make the seismometer unit have an apparent specific gravity less than that of water in which it is to be used, a flexible electro-conductive cable attached to each seismometer unit for carrying the electrical signals from the seismometer in the unit and positioning the seismometer unit, and a main electro-conductive cable to which the first-mentioned cables are connected



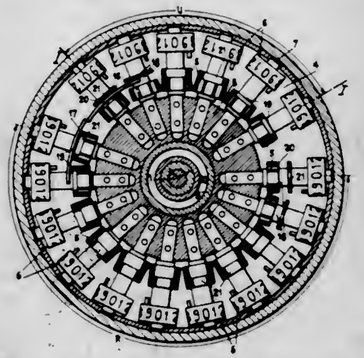
at spaced positions, said main seismometer cable serving to conduct the signals from the seismometers to the surface of the water, *the apparent specific gravity of said main cable* being sufficiently *greater* than *that of* the water *to overbalance the combined buoyant effects of the seismometer units so that said main cable* will sink to the bottom of the water and drag the seismometer units down to *submerged* positions above it, which positions will be determined by the lengths of the first-mentioned seismometer cables.

23,553
ZEROIZING MECHANISM

Curt Herzstark, Mauren, Liechtenstein, assignor to Contina Bureaux- und Rechenmaschinenfabrik A. G., Liechtenstein

Original No. 2,533,372, dated December 12, 1950, Serial No. 100,126, June 20, 1949. Application for reissue December 8, 1951, Serial No. 260,752

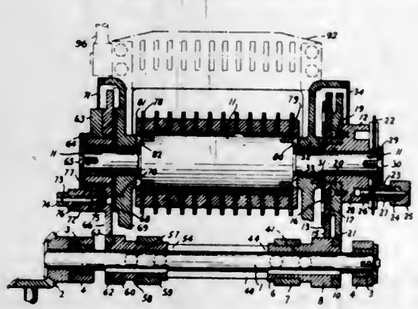
6 Claims. (Cl. 235—144)



1. In a pocket-size calculating machine, a main shaft rotatably mounted in a casing, a plurality of shafts arranged spaced and parallel to said main shaft and along a circular line concentric with the axis of said main shaft, said shafts

forming the driving members of a product counter mechanism and revolution counter mechanism respectively, a pinion at the end of each of said shafts and adapted to mesh with a transfer wheel, an axially movable body rotatably mounted about the axis of said main shaft and having fixedly mounted thereon a plurality of radially extending axles, one for each of said shafts, said transfer wheels being rotatably mounted on said radial axles and being each associated with a numeral wheel, a re-setting member rotatably mounted on said axially movable body and provided with two curved serially arranged re-setting racks adapted upon relative rotation with respect to said body to engage said transfer wheels, spring means for normally urging said body in an axial direction in which said transfer wheels engage the pinions on said shafts, and means operable upon initial rotation of said re-setting member for moving said body in the opposite direction in which said transfer wheels disengage said pinions, whereupon said re-setting racks upon continued rotation engage said transfer wheels and returns said numeral wheels to zero.

23,554
CONTROLLER
Charles F. Miller, Philadelphia, Pa., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa., a corporation of New York
Original No. 2,534,724, dated December 19, 1950, Serial No. 11,969, February 28, 1948. Application for reissue April 4, 1952, Serial No. 280,560
9 Claims. (Cl. 66—155)



5. In a controller, at least one change-directing pattern, a master control pattern to direct the advance of said change-directing pattern, a shaft to be driven in a fixed time relation with the apparatus subject to the controller, a Geneva type of movement driven by said shaft, a second Geneva type of movement the driven member of which is attached to said master control pattern and the driving member of which includes a sleeve rotatable by but slidable on said shaft between locking and driving position, and an actuator controlled by the first mentioned Geneva movement to slide said sleeve along the shaft.

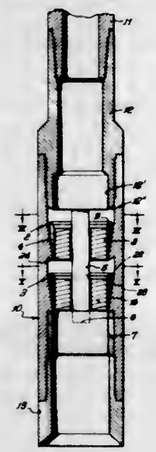
23,555
ELECTRICALLY CONDUCTING COATING ON GLASS AND OTHER CERAMIC BODIES
John M. Mochel, Louisville, Ky., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Original No. 2,564,987, dated August 21, 1951, Serial No. 771,860, September 3, 1947. Application for reissue May 15, 1952, Serial No. 288,009
1 Claim. (Cl. 201—73)

An electric resistance device comprising a nonporous, vitreous, ceramic body having on a surface thereof an electrically conducting, iridized metal-oxide film integrally united with the surface and consisting essentially of indium oxide, said body being provided with spaced terminals in electrical contact with such film.

23,556
ELECTRICALLY CONDUCTING COATING ON GLASS AND OTHER CERAMIC BODIES
John M. Mochel, Louisville, Ky., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Original No. 2,564,709, dated August 21, 1951, Serial No. 197,515, November 24, 1950. Application for reissue May 15, 1952, Serial No. 288,010
1 Claim. (Cl. 201—73)

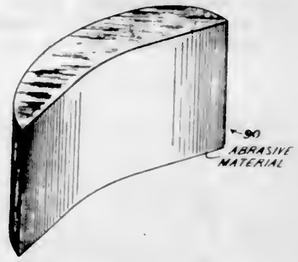
An electric resistance device comprising a nonporous vitreous ceramic body having on a surface thereof an electrically conducting iridized metal oxide film integrally united with the surface and comprising primarily an oxide of indium and an oxide of tin equivalent to approximately 0.1% to 45% SnO_2, said body being provided with spaced terminals in electrical contact with such film.

23,557
FISHING TOOL
Dante A. Siracusa, Huntington Beach, Calif.
Original No. 2,553,985, dated May 22, 1951, Serial No. 619,776, October 2, 1945. Application for reissue November 1, 1951, Serial No. 254,217
14 Claims. (Cl. 294—102)



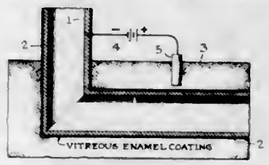
6. In a fishing tool: a rigid, tubular body portion including a gripping means movably carried by the inner surface of the body portion; a collar positioned within the body portion below said gripping means, a recess formed in the edge of the collar and a key having its lower portion in the recess, said key extending upwardly into operative contact with the gripping means.

23,558
ABRASIVE BLOCK OR SEGMENT
Albert Shepard Titcomb, Yardley, Pa.
Original No. 2,501,422, dated March 21, 1950, Serial No. 96,476, June 1, 1949. Reissue No. 23,364, dated May 8, 1951, Serial No. 193,231, October 31, 1950. This application for reissue March 6, 1952, Serial No. 275,178
26 Claims. (Cl. 51—204)



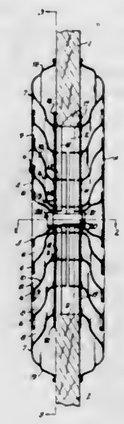
1. A bonded abrasive block shaped as a pseudo hollow cylindrical segment, formed between [two arcuate surfaces] *an inner arcuate surface of shorter and an outer arcuate surface of longer extent*, said arcuate surfaces being perpendicular to an end surface and substantially equidistant throughout their course from [an] *a non-angular* [[arcuate]] median, said inner and outer arcuate surfaces [[meeting]] **at their intersection meeting the non-angular** [[said]] median in an acutely angled *substantially* **full** sharp end.

23,559
CORROSION-RESISTANT METALLIC STRUCTURE
Orrin E. Andrus, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Original No. 2,267,361, dated December 23, 1941, Serial No. 15,146, April 6, 1935. Renewed November 29, 1937. Application for reissue August 25, 1952, Serial No. 306,140
8 Claims. (Cl. 204—196)



1. A corrosion-resistant metallic structure which comprises a metal base, a coating of vitreous enamel fused to the metal base, and means to maintain the metal structure electrically negative with respect to its surroundings in order to cathodically protect from corrosion those parts of the metal base which are exposed by defects in the coating.

23,560
VENTILATOR
George Herbster, Cleveland, Ohio, assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill.
Original No. 2,355,294, dated August 8, 1944, Serial No. 394,811, May 23, 1941. Application for reissue June 19, 1952, Serial No. 294,524
7 Claims. (Cl. 98—87)



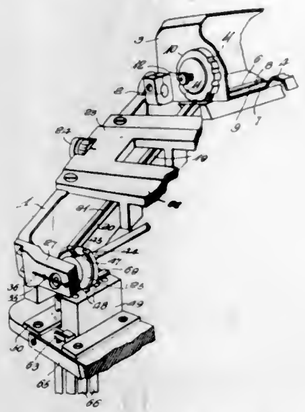
1. A vision obstructing ventilator for an opening in a wall and comprising a pair of grills, each grill comprising a plurality of generally frusto-conical annular vanes, means supporting the vanes in coaxial relation to each other and spaced apart radially from each other to define annular passages for air between adjacent vanes, the vanes having their smaller bases at the inner end of each grill and their larger bases at the outer end, the radially outward edge of each vane lying radially outwardly beyond the radially inward edge of the next adjacent radially outward vane, said grills being adapted to overlie the opening when they are disposed in axial alignment on opposite sides of the wall opening with their inner ends facing each other, window means in the center vane affording greater vision therethrough in one direction axially of the grills than in the opposite direction, and means securing the grills in axial alignment with their inner ends facing each other.

PATENTS

GRANTED SEPTEMBER 30, 1952

GENERAL AND MECHANICAL

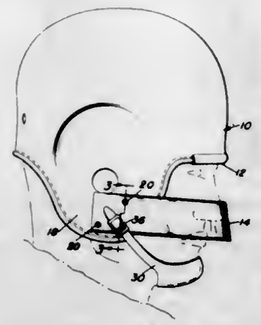
2,611,896
FEEDING MECHANISM FOR NAILING MACHINES
Václav Chmelař, Zlin, Czechoslovakia, assignor to Bată, narodní podnik, Zlin, Czechoslovakia, a corporation of Czechoslovakia
Application July 8, 1947, Serial No. 759,608
In Germany October 30, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 30, 1963
6 Claims. (Cl. 1—39.1)



1. A device for distributing nails to a nailing machine, particularly for the manufacture of footwear, comprising a nail storage container, a raceway for guiding the nails with their tips depending downwardly in a linear path from said container, a rotatable nail reversing disc located at the discharge end of said raceway, the disc having two parallel nail-receiving pockets extending across the entire front surface of the disc, both of said pockets being displaced from the axis of rotation of the disc, a nail-receiving distributor located below the disc, a rack and pinion drive means for rotating said disc, and a spring for biasing the rack to a retracted position after each cycle of operation of said disc.

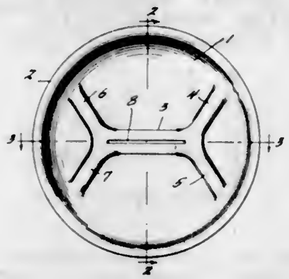
2,611,897
HELMET WITH FACE GUARDING MEANS
Joe R. Adams, Cookeville, Tenn.
Application October 17, 1950, Serial No. 190,552
1 Claim. (Cl. 2—9)

In combination with a helmet having a face opening at the front thereof and provided with a pair of snap fastener members adjacent the respective opposite sides of said opening, a face guard comprising an arcuate strap having end portions thereof secured to opposite side portions of said helmet and extending transversely and forwardly of said opening, end portions of said strap being provided with circular apertures having the respective snap fastener members disposed therein whereby the fastener members are spaced inwardly from the outer surface of said strap, a chin strap disposed below the face guard strap and having its end portions extending over the outer surfaces of the end portions



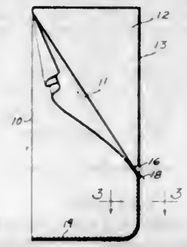
of the face guard strap, and coacting snap fastener members provided on end portions of the chin strap and projecting into said apertures for attachment to the respective fastener members on the helmet.

2,611,898
BRASSIÈRE
Joseph Paul Laird, Philadelphia, Pa.
Application November 22, 1950, Serial No. 197,072
3 Claims. (Cl. 2—42)



2. An insert to be sewed in the pockets of a textile brassière, consisting of a relatively thin semi-rigid molded plastic sheet, a cup-like pocket formed in the sheet, the marginal edges about the outer walls of the pocket adapted to receive the threads when the insert is sewed into the pockets of the brassière, reinforcing ribs in the insert, one extending horizontally across the pocket, said latter rib being slotted and the other of said ribs being non-radial, and the slotted rib having the slot extending substantially throughout its length and the thickness of the ribs being such as to cause the insert to return to its original form if depressed.

2,611,899
CONVERTIBLE LAP ROBE
Laurence T. Nelson, Portland, Oreg., assignor to Portland Woolen Mills, Inc., Portland, Oreg., a corporation of Oregon
Application September 13, 1948, Serial No. 48,991
1 Claim. (Cl. 2—69.5)



A laprobe consisting of a substantially rectangular blanket having two opposed side edges and two opposed end edges, a first tape of separable slide fastener elements fastened to said blanket and extending continuously along one of said end edges from the center thereof toward one of said side edges and then along said one side edge for a distance equal to approximately one-third the length of said side edge, a second tape of separable slide fastener elements fastened to said blanket and extending continuously along said one end edge from the center thereof toward the other of said side edges and then along said other side edge for a distance equal to approximately one-third the length of said other side edge, and a slide fastener element interlocking member permanently engaging the first few of said separable slide fastener elements on both of said tapes adjacent the center of said one end edge and adapted to interlock the remainder of said separable slide fastener elements thereby to form a pocket at one end of said blanket when folded upon itself along a central line normal to said end edge, intermediate portions of said tapes being directed along curved lines at the corners of said blanket defined by said one end edge and said side edges whereby said interlocking member may interlock said separable fastener elements from end to end of said tapes, said blanket having a notch therein at the center of said one end edge with the inner end of said notch lying along said central line of the blanket, and said tapes extending along curved lines at the sides of said notch to the tip thereof and having their adjacent ends substantially meeting along said central line of said blanket whereby, when said separable elements are disengaged except for said first few permanently engaged by said slide member, the blanket may be spread smoothly in an entirely flattened condition.

2,611,900
NECKTIE
Helmut Hertz, Rochester, N. Y., assignor to Superba Cravats, Inc., Rochester, N. Y., a corporation of New York
Application December 7, 1951, Serial No. 260,427
2 Claims. (Cl. 2—146)

2. In a necktie, an envelope having a face portion and folded side portions the edges of which side portions extend substantially along the longitudinal axis of the envelope, said envelope being made of a long narrow strip of washable woven fabric of a given texture cut on the bias, the major portion of said fabric comprising polyester fibers, a separate lining cut on the bias from washable woven fabric of substantially the same material as the envelope, said lining being enclosed within the envelope, and a line of stitching joining a substantial portion of the side edges of the envelope to



the lining at the medial long axis thereof, the necktie being flat and having permanently set folds at its side edges, said line of stitching being the sole connection between the envelope and said lining.

2,611,901
GLOVE OR MITTEN CONSTRUCTION
Mark Neider, New York, N. Y.
Application January 13, 1950, Serial No. 138,350
2 Claims. (Cl. 2—158)

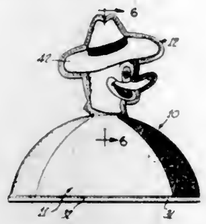


1. A glove or mitten comprising a hand portion suitable to receive two hands, a wrist-enveloping sleeve portion open at one end and connected to the upper end of the hand portion for access of one hand to the hand portion, a second wrist-enveloping sleeve portion open at its outer end and extending outwardly from one side of the hand portion to permit the access of another hand into the hand portion, said second wrist-enveloping sleeve portion being foldable inwardly into said hand portion when not in use, and fastener means extendable over the second wrist-enveloping sleeve portion when in its foldable position, whereby to hold said second wrist-enveloping sleeve portion within the hand portion but when released to permit the extension thereof from the hand portion.

2,611,902
NOVELTY CAP
Martin F. Rockmore, New Rochelle, N. Y., assignor to Rockmore Company, Inc., New York County, N. Y., a corporation of New York
Application December 27, 1949, Serial No. 135,100
3 Claims. (Cl. 2—199)

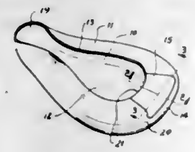
1. An article of headgear having a figure extending from the top thereof, said headgear com-

prising four triangular portions which are stitched together along their contiguous sides, two of the oppositely positioned triangular portions being made integral by a strip of material joining their upper ends, each of the other two opposite triangular portions having an extension at the upper end which has been cut out to represent a designated configuration, the side edges



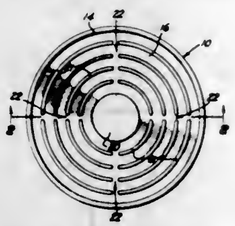
of said respective configurations being secured together, said integral strip of the first-mentioned triangular portions forming a bridge at the apex, a sound-producing mechanism supported by said bridge and completely enclosed within and obscured by the figure resulting from joining together the opposing side edges of the said extensions.

2,611,903
BEDPAN
Catherine E. Wakeman, Vancouver, British Columbia, Canada
Application March 11, 1950, Serial No. 149,085
9 Claims. (Cl. 4—112)



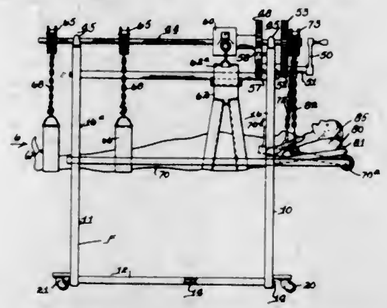
1. A bed pan of the class described consisting of a receptacle having an inturned rim most of which is rigid to support the weight of a person using the pan, a portion of said rim being composed completely of yieldable material permanently connected at its sides to the rigid portion of the rim, and said yieldable rim portion conforming to the shape of protruding bones of the pan user to eliminate pressure thereon.

2,611,904
SINK STOPPER
Arthur G. Gross, Manhattan Beach, Calif.
Application September 2, 1948, Serial No. 47,443
4 Claims. (Cl. 4—293)



1. A drain stopper comprising a substantially flat disk of rubber-like material, raised sealing means adjacent the outer periphery of said disk adapted to form a seal with the bottom of a sink at a distance radially outward from the margin of the drain opening thereof, and means for preventing the formation of a continuous seal between the underside of said disk and said sink bottom at any point except at said sealing means, said means comprising raised sink-engaging elements formed on the area of said disk inside said raised sealing means, and air passageways between said elements extending from said sealing means inward to the disk area overlying said drain opening whereby the total head of water over the entire area of the stopper will exert a downward force upon the stopper to preclude slipping thereof with relation to the drain opening.

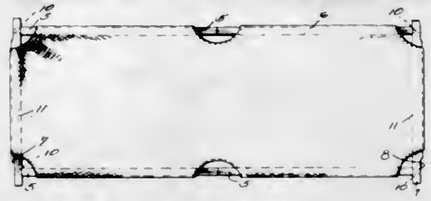
2,611,905
APPARATUS FOR HANDLING PATIENTS
George I. Rockwood, Worcester, Mass.
Application May 7, 1947, Serial No. 746,423
5 Claims. (Cl. 5—86)



1. In an apparatus for handling patients comprising a frame open at one side to receive a bed and having longitudinally spaced overhanging head and foot end members, transversely spaced bearings on said members, parallel main shafts rotatably mounted in said bearings, patient-contacting handling tackle mounted on and connected to said shafts, means to simultaneously rotate said shafts to raise at least a portion of said handling tackle and means to lock said rotating means, that improvement in which the handling apparatus includes a belt to underlie the lower part of the back of the patient, a separate head-supporting structure, means to move that inner edge portion of said head-supporting structure which is nearer said belt upward and downward simultaneously with said belt, and additional means to move the outer edge portion of said structure upward simultaneously with said first-mentioned edge portion, but said additional means including a flexible element and permitting independent downward movement of said first-mentioned edge portion when said outer edge portion is held from downward movement.
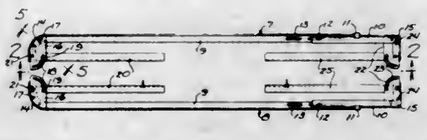
2,611,906
TENSION ADJUSTMENT FOR FOLDING CANVAS COTS
Stanley Backer, Primos, Pa.
Application September 27, 1949, Serial No. 118,002
4 Claims. (Cl. 5—117)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A cot having a frame, including side members and end sticks, a flexible fabric stretched over the frame and having hems at its ends, an end stick being inserted in but removable from each hem, at least one of said end sticks having a cut-away portion at each end extending along one side only and lying outside the hem, bores providing mortises extending through each end portion of each end stick from the cut-away side to the opposite side of the end stick, the side



members having tenons on their ends fitting said mortises when the cot is assembled, the cut-away portions providing tension adjustment means or sag take-ups according to the positions of the cut-aways relative to the tenons on the side members.

2,611,907
ADJUSTABLE BED FRAME
Leonard F. Clerc, Detroit, Mich.
Application February 23, 1949, Serial No. 77,918
2 Claims. (Cl. 5—176)



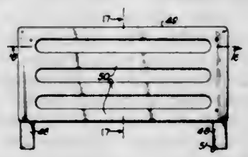
2. In a device of the character described, the combination of a pair of side rails of angular cross section, each side rail having an extension member slidable thereon, a plate at the end of each side rail and each extension member, an arm pivotally secured to each plate and movable in a plane common with said rails, said plates being provided with arcuate slots adapted to accommodate locking means carried on said arms and said arms are provided with cooperating means for securing said arms to one another in pairs.

2,611,908
TENSION ADJUSTMENT FOR CANVAS COTS
Philip E. Siggers, Wilmington, Del., assignor to the United States of America as represented by the Secretary of the Army
Application May 29, 1951, Serial No. 228,957
2 Claims. (Cl. 5—187)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



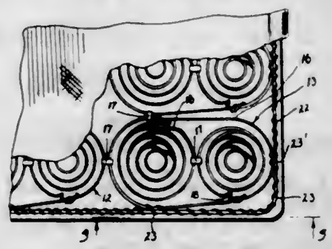
1. A folding cot of the type comprising a folding frame, and a flexible fabric connected on four sides with said frame thereby to be stretched taut when the frame is set up; said folding frame including two longitudinal side rails, two elongated end sticks, and means to secure each of the end sticks removably to the ends of the side rails; the improvement which consists in the provision of enlargements formed on both ends of at least one of said end sticks, said enlargements being substantially wider than the central portion of the respective end stick and making said end portions asymmetrical relative to the longitudinal axis of the respective end stick; the flexible fabric of the respective end stick; the flexible fabric having hems at each end, each hem receiving the central portion of an end stick so that both end sticks may be turned 180° on their longitudinal axes to reverse the areas of the end sticks which are in contact with the ends of the side rails.

2,611,909
PORTABLE GUARD
Annie Lee Dillon, Raleigh, and Horace William O'Shea, Jr., Durham, N. C., assignors to Fence-Me-In, Inc., Raleigh, N. C., a corporation of North Carolina
Application April 15, 1947, Serial No. 741,622
9 Claims. (Cl. 5—331)



1. A bed guard comprising spaced substantially parallel standards; a plurality of rail members secured to said standards, each comprising a plurality of telescopically associated units slidable between a retracted position and an extended position; means operatively connected between said telescopically associated rail units to limit the extent of relative sliding movement therebetween; and spring actuated means carried by said movement limiting means operative to releasably maintain said telescopically associated rail units in either their extended or their contracted position relative to each other.

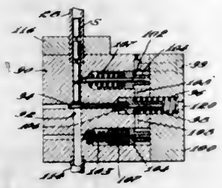
2.611.910
MATTRESS COIL SPRING UNIT
Sam Bell, Milwaukee, Wis.
Application June 30, 1949, Serial No. 102,231
1 Claim. (Cl. 5—351)



A coil spring unit comprising two coil springs, the outer convolutions of which having bent portions and free ends, the free ends of the convolutions of one coil spring extending to and engaging with the bent portions of the convolutions of the other of said coil springs, whereby relative

movement of the ends of the outer convolution of one coil spring and the free ends of the outer convolutions of the other coil spring is prevented.

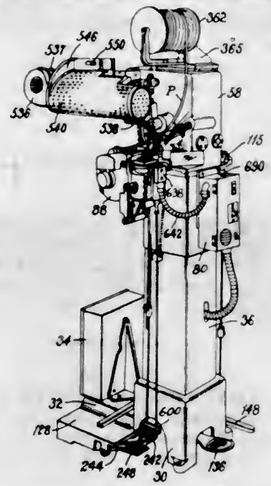
2,611,911
ESCAPEMENT MECHANISM
Harold J. Graham, Highland Park, and Paul F. Powder, Detroit, Mich., assignors to Graham Manufacturing Corporation, Detroit, Mich., a corporation of Michigan
Application December 15, 1949, Serial No. 133,162
3 Claims. (Cl. 10—162)



1. A pneumatically operated escapement for feeding one stud at a time from a magazine, comprising a body having a passageway therein forming a path along which the studs proceed in stacked relationship from the magazine, said body also having three cylindrical cavities therein whose respective axes intersect the axis of the passageway, a plunger having a finger associated therewith reciprocatingly disposed in each of the respective cavities, a spring biasing the centrally positioned finger so that it normally blocks the passageway thereby to restrain the studs, the two outer cavities being positioned so that the two flanking fingers spaced along the passageway on either side of the central finger at respective distances greater than the longitudinal length of one of the studs, springs biasing the two flanking fingers respectively so that they are normally held clear of the passageway, said body having a plurality of air passages therein, the ends of the first of said passages connecting respectively with an air supply and the central cavity so that the central finger and associated plunger can be moved against the force exerted by the correlated biasing spring to release the bottom-most stud, the other air passages interconnecting the respective outer cavities with the central cavity whereby the movement of the central plunger from the passageway blocking position permits air to flow through such passages to the outer cavities thereby to move the flanking plungers so that the stack is restrained by one of the flanking fingers as the bottom-most stud is transferred from the central finger to the other flanking finger, the subsequent disconnecting of the air supply permitting the springs to return the fingers to their normal positions releasing the bottom-most stud.

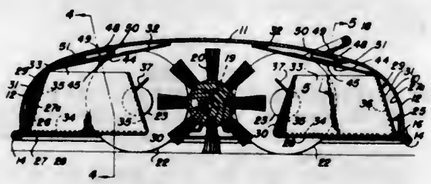
2,611,912
MACHINE FOR USE IN THE MANUFACTURE OF INSOLES
John J. Maciejowski, Ipswich, and Fred T. MacKenzie, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 12, 1949, Serial No. 121,038
17 Claims. (Cl. 12—20)

1. In a machine for working sheet material into the groove of an insole-shaped matrix having a groove therein, the combination of a support for the matrix, a head casing, a shaft extending through two walls of the casing, a cam on the shaft within the casing, said cam having a plurality of cam paths, a rockshaft, two arms on the rockshaft, a reciprocating tool for tucking the sheet material into the groove, a plunger extending through the casing, one arm of the rockshaft engaging one path in the cam, the other



arm on the rockshaft engaging the plunger, connections from the plunger to reciprocate the tool, a four-motion feed foot operated from said shaft to feed the matrix, a core-piece-feeding pawl, a second plunger extending through the casing operatively connected to said pawl, and means for operating the second plunger from another path of said cam.

2,611,913
CARPET SWEEPER WITH DISPOSABLE DUST RECEPTACLE
Adolph P. Buquor, Washington, D. C.
Application July 2, 1948, Serial No. 36,576
6 Claims. (Cl. 15—41)

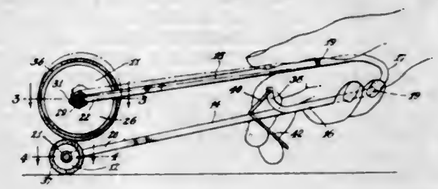


1. A carpet sweeper, comprising: a housing; a rotatable brush in said housing, said housing being open at the bottom thereof to receive a pair of disposable dust receptacles; a pair of nonferrous disposable dust receptacles in said housing, one located on each side of said brush; and means supporting said dust receptacles in said housing including magnetic means removably retaining the respective receptacles in said housing, whereby said receptacles are individually removable.

2,611,914
MANUALLY OPERATED FLUID APPLICATOR
Charles E. Vanasse, New York, N. Y.
Application November 18, 1949, Serial No. 128,093
3 Claims. (Cl. 15—132.5)

1. A manually operated fluid applicator including in combination a fountain roll, a transfer roll,

and a handle mounting said rolls parallel, said handle including an elongated loop having cantilever arms proportioned to be spanned by the operator's hand and with said rolls respectively mounted rotatively on the swinging ends of said arms, said arms being yieldable to permit movement of said rolls toward and away from each other, one of said arms being provided with a



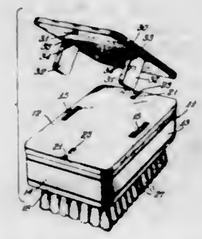
cantilever beam extending therealong from the bend of said loop, and a pivoted strut provided with a manually operable trigger coacting with one of said arms and said beam with its said trigger angularly arranged respecting said arms at a position accessible to the fingers of the operator's hand when spanning said arms, whereby the relative positions of said rolls may be controlled.

2,611,915
FOUNTAIN-TYPE COSMETIC APPLICATOR
Leslie J. Prokop and Robert C. Smith, New Haven, Conn.; Ethel M. Smith, executrix of said Robert C. Smith, deceased, assignors of sixty per cent to said Prokop and forty per cent to Ethel M. Smith, New Haven, Conn.
Application February 1, 1947, Serial No. 725,940
8 Claims. (Cl. 15—133)



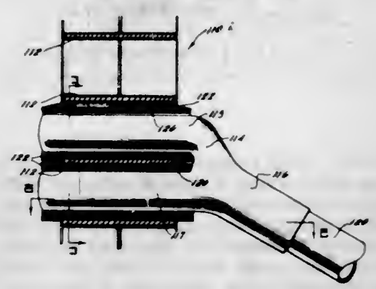
4. In a device of the class described, in combination: a barrel having a reservoir, an apertured end wall communicating therewith and external screw-threads at one end thereof; a sleeve to support said barrel, said sleeve having a telescoping connection therewith for longitudinal movement with respect thereto; an applicator supported in the reservoir of said barrel; applicator-manipulating means comprising a finger-piece connected to said applicator, said finger-piece being rotatably connected to said sleeve and adapted to have screw-threaded engagement with the external threads of said barrel so as to be effective upon rotation in one direction to advance said applicator through said reservoir out of the aperture in the end wall of said barrel and upon rotation in the opposite direction to retract said applicator into said reservoir; and a cap to close the aperture in the end wall of said barrel, said cap being constructed and arranged to displace said finger-piece out of position for threaded engagement with said barrel so as to preclude operation of said applicator-manipulating means.

2,611,916
HAIRBRUSH WITH CLOSURE THEREFOR
Stanley Earl Peters, Chicago, Ill., assignor to Frederick W. Geisler, Chicago, Ill.
Application December 7, 1949, Serial No. 131,676
5 Claims. (Cl. 15—184)



5. A brush construction comprising a casing having an open end and a wall opposite the open end having an opening therethrough, a bristle plate mounted within the casing for movement toward and away from the open end, stop means in the casing between the bristle plate and the open end to limit movement of the bristle plate toward the open end, a cover having locking means projecting therefrom, the cover being manually movable between a first position in which it is disposed over the open end of the casing and a second position in which it is disposed on said wall opposite the open end with the locking means extending through said opening in the wall into engagement with the bristle plate, and means for securing the cover to the casing in said first and second positions.

2,611,917
VACUUM CLEANER ATTACHMENT FOR USE IN CLEANING VENETIAN BLINDS
Thomas J. Ventsias and James Ventsias, Joliet, Ill.
Application August 28, 1946, Serial No. 693,465
1 Claim. (Cl. 15—394)



A vacuum cleaner attachment for dusting Venetian blinds having vertically spaced horizontal slats consisting of a head having an elongated bifurcated portion and an integral tubular neck portion inclined relative to the longitudinal axis of the bifurcated portion, the furcations of said bifurcated portion being disposed one above

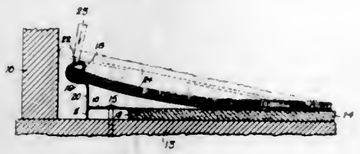
the other when in position to receive a horizontal slat between them, each furcation being hollow and having a generally rectangular cross-section, the upper and lower faces of each furcation being flattened, spaced orifices extending through the upper and lower faces of each furcation, base plates secured to the upper and lower faces of each furcation and being provided with apertures registering with said orifices, and bristles mounted on said base plates and surrounding said orifices.

2,611,918

COMBINED CARPET FASTENER AND BINDER

Torkel Jaasund, Brooklyn, N. Y., assignor to General Carpet Supply Co. Inc., New York, N. Y., a corporation of New York

Application November 15, 1950, Serial No. 195,881
5 Claims. (Cl. 16—5)



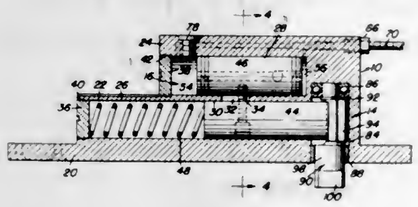
1. A combined carpet fastener and binder which comprises a boundary strip to be nailed to the floor co-extensive with one edge of the carpet, an elongate bendable U-shaped gripper element having opposed sets of teeth to engage the edge of the carpet, and flexible means supporting the gripper element above the binder strip, said boundary strip being disposed parallel to and at predetermined distance from an adjacent wallboard to provide a recess into which the gripping element and its flexible supporting means may be reversely bent after the carpet edge has been gripped whereby the carpet is fastened and stretched taut over the boundary strip.

2,611,919

CHECKING MECHANISM FOR DOORS

Enoch W. Carlson, Jamestown, N. Y.

Application December 1, 1950, Serial No. 198,643
2 Claims. (Cl. 16—55)



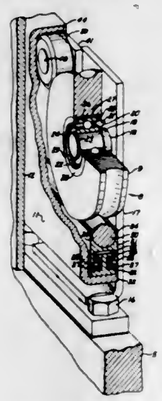
1. A door check comprising a housing disposed in a door and having a pair of substantially parallel first and second bores therein, first and second pistons reciprocably disposed in said first and second bores, respectively, the wall between said bores being provided with a slot and means extending through said slot and connecting said pistons for simultaneous movement, resilient means in said first bore and normally urging said first piston to a first position, a cam surfaced rod perpendicularly disposed relative to said first piston and rotatably supporting said housing, the cam surface of said rod being engaged with the adjacent end of said first piston, and fluid control means for said second piston controlling fluid flow past said second piston whereby when the door is opened the pistons will move to a second position and when the door is released the fluid control means will control the movement of said pistons back to the first position and thereby effect controlled movement of said door, said fluid control means including a pair of passages in said housing connecting the chambers at opposite ends of said second piston, and valve means for adjustably controlling the flow through said passages, one of said passages communicating with said second bore at an intermediate portion thereof, and a second passage communicating with an end portion of said second bore whereby movement of said second piston toward said end portion will first close communication through said one passage thereby effecting a slowed passage of fluid from one end of said second bore to the other end thereof whereby the closing movement of the door will be slowed during the latter stages thereof.

2,611,920

TRACK FOR SLIDING DOORS

Joseph H. Borden, Toledo, Ohio, assignor to Haughton Elevator Company, Toledo, Ohio, a corporation of Ohio

Application September 14, 1948, Serial No. 49,253
2 Claims. (Cl. 16—96)



1. A vibration absorbing track for an elevator door hanger having a rotatably journaled wheel, comprising, an elongated rail on which said wheel runs, a support member extending along the rail and a cushioning member located between said rail and said support member, the cross-sectional shapes of said rail, said support member and said cushioning member being the same through their lengths and having integral laterally extending interlocking flanges, the flanges of said cushioning member being interposed between the flanges of said rail and said support member.

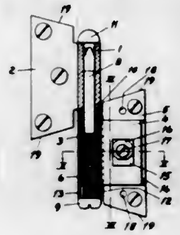
2,611,921

HINGE WITH MUTUALLY DISPLACEABLE MEMBERS FOR ADJUSTMENT THEREOF

Gustaf Adrian Weidelstam, Irisgatan, Sweden

Application June 6, 1947, Serial No. 752,911
In Sweden June 1, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires June 1, 1963
4 Claims. (Cl. 16—129)

1. A hinge, which comprises: a hinge-pin having an extending portion and provided with a head and with screw threads on one portion of the extending portion thereof; a first hinge leaf articulating about said hinge pin and secured to a first knuckle, said first knuckle surrounding that portion of the extending portion of said hinge pin on which no screw threads are positioned; a second hinge leaf articulating about said hinge-pin, said second hinge leaf being secured to a second knuckle coaxial with said first knuckle, and being formed with an aperture therein; said second knuckle surrounding the screw-threaded portion of said hinge-pin, and being provided with screw threads on the internal portion thereof engaging said screw threads on said hinge-pin; a mounting plate adapted for securement to a frame, said mounting plate being adjustably secured to said second hinge leaf by securement means positioned in said aperture in said second hinge leaf, said se-



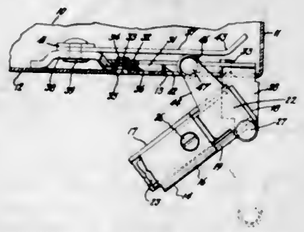
curement means comprising a plate eccentrically apertured for a screw to maintain the same and mounting plate to the frame, whereby, adjustment of the eccentrically apertured plate on the screw permits sliding displacement of said second hinge leaf with respect to said mounting plate, thereby permitting relative adjustment of one with respect to the other; and a tubular member encircling said second knuckle, said tubular member being supported at its lower end by said head of said hinge-pin, while the upper end of said tubular member supports said first knuckle and said first hinge leaf secured thereto, whereby said first knuckle and said first hinge leaf may be raised or lowered, at will, by rotation of said screw-threaded hinge-pin with respect to said second knuckle.

2,611,922

SELF-CLOSING CABINET HINGE

Philip K. Borman, Chicago, and Thomas H. Swisher, Elmhurst, Ill., assignors to Hotpoint Inc., Chicago, Ill., a corporation of New York

Application October 28, 1947, Serial No. 782,574
4 Claims. (Cl. 16—145)



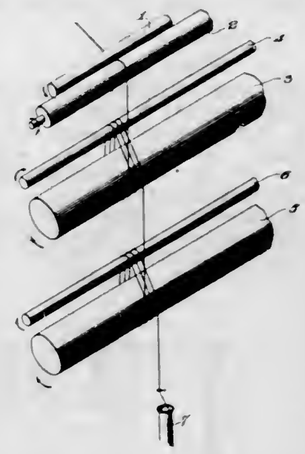
1. A hinge comprising a substantially flat body member, a forwardly projecting first flat hinge leaf carried on one end of said body member, the plane of said first hinge leaf being disposed substantially normal to the plane of said body member, a second flat hinge leaf arranged upon said first hinge leaf, a pintle hingedly joining said hinge leaves together in flatwise relation, a leaf spring arranged behind and substantially parallel to said body member, one end of said leaf spring being fixed to the other end of said body member and the other end of said leaf spring extending behind said first hinge leaf, a projecting arm carried by said second hinge leaf, and a roller carried on the end of said arm and movable into cooperative relation with said other end of said leaf spring, said leaf spring having an angular bend therein adjacent to said other end thereof providing first and second adjacent roller engaging surfaces thereon, said roller successively engaging said first and second surfaces as said second hinge leaf is moved in a given direction about said pintle with respect to said first hinge leaf, said surfaces being disposed on opposite sides of a line extending between said pintle and said bend and sloping rearwardly away from said line so that said leaf spring opposes said movement of said second hinge leaf when said roller is in engagement with said first surface and aids said movement of said second hinge leaf when said roller is in engagement with said second surface.

2,611,923

METHOD AND APPARATUS FOR THE DRAWING OF SYNTHETIC FUNICULAR STRUCTURES

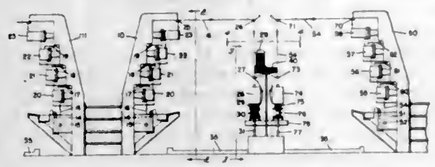
Harold Frederick Hume, Marshallton, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application August 31, 1949, Serial No. 113,308
7 Claims. (Cl. 18—8)



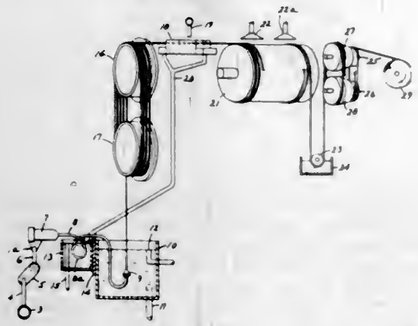
1. Apparatus for the two stages of drawing and heat-treating heat-stretchable yarns and like structures of synthetic filament-forming material on a single heated roll comprising in combination a positively driven unheated yarn feed roll driven at a predetermined speed, a heated draw roll in the path of travel of yarn from the feed roll and driven at an increased speed sufficient to maintain yarn between said feed roll and said heated draw roll under drawing tension, and a positively driven cold roll in the path of travel of yarn from said heated roll, adapted to maintain yarn between said heated roll and said cold roll at a predetermined tension.

2,611,924
METHOD AND APPARATUS FOR HANDLING CONTINUOUSLY SPUN ARTIFICIAL THREADS OR THE LIKE
Kenneth M. McLellan, Cleveland, and Richard W. Stanley, Rocky River, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application December 21, 1950, Serial No. 201,896
16 Claims. (Cl. 18—8)



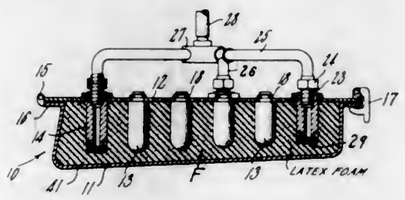
5. An apparatus for the manufacture of viscose rayon threads comprising, opposing banks of reels rising vertically and inclining towards each other, a plurality of a vertical series of thread store, thread advancing reels forming said banks, a longitudinally extending coagulating bath under the lowermost of the reels of said banks, thread forming means in said baths, the thread formed by said thread forming means being withdrawn by the lowermost of each vertical series of reels and advanced to successively higher positioned reels in each of the series, processing and drying said thread while on said reels, means positioned at about the top of each of the banks of reels for guiding said thread from the last of the thread store, thread advancing devices on said banks to adjacently positioned thread collecting means, and said thread collecting means being positioned within said opposing banks of reels and substantially intermediate said banks.

2,611,925
APPARATUS FOR PRODUCING HIGH TENACITY ARTIFICIAL YARN AND CORD
Howard D. Merion, West Chester, and Henry J. McDermott, Collingdale, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Original application November 23, 1948, Serial No. 61,542. Divided and this application September 6, 1951, Serial No. 245,306
5 Claims. (Cl. 18—8)



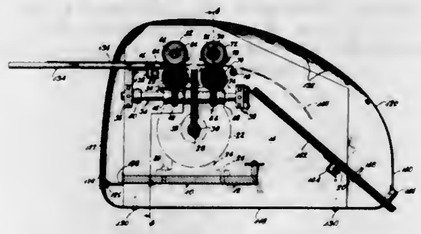
1. An apparatus for spinning artificial filaments comprising a container for a coagulating bath, a second container adjacent the first, a conduit system pivotally mounted on an axis outside the containers comprising a pipe having a portion thereof formed into a tortuous configuration, a spinneret on a terminal portion of the pipe away from the axis, said tortuous portion and spinneret being offset laterally in the same direction from other parts of the pipe whereby swinging of the pipe in one direction introduces the spinneret into the first container and the tortuous portion in the second container, and swinging in the other direction removes the spinneret and tortuous portion from the containers.

2,611,926
APPARATUS FOR VULCANIZING FROTHED LATEX RUBBER
William C. Grannis, South Bend, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 5, 1951, Serial No. 204,579
3 Claims. (Cl. 18—38)



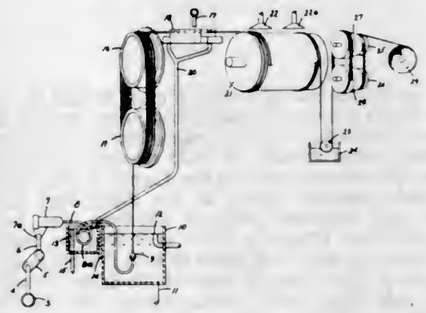
1. A vulcanizing mold for a mass of frothed latex, comprising a molding receptacle having hollow cores projecting into the mold from one surface thereof, means for supplying steam under pressure to said cores, each core having a fine porous filter portion that contacts the froth and through which steam can pass from the hollow core into the set latex forth to vulcanize the froth, and said filter portion being formed of microporous material through which the steam can escape but the frothed latex can not enter to clog its pores.

2,611,927
METHOD FOR RESTORING RECORDS
Willard A. Roberts, Wethersfield, Frank L. Moore, Newington, and Emile D. Conforti, West Hartford, Conn., assignors to The Gray Manufacturing Company, a corporation of Connecticut
Application August 22, 1949, Serial No. 111,724
6 Claims. (Cl. 18—48.3)



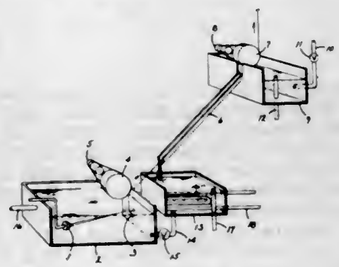
1. A method of restoring the surface of an embossed thin flexible thermoplastic sound record containing grooves comprising subjecting an embossed surface of said record to pressure and to a temperature thermostatically maintained above the minimum plasticizing temperature of the record material, and correlating the duration of such applied temperature with said temperature to apply heat to said surface sufficiently to plasticize the record only to a depth comparable with the depth of said grooves so as to eliminate the surface grooves of said record and restore said surface to substantially its initial unembossed form without deforming the record as a whole and without the loss of material from said surface.

2,611,928
METHOD FOR PRODUCING HIGH TENACITY ARTIFICIAL YARN AND CORD
Howard D. Merion, West Chester, and Henry J. McDermott, Collingdale, Pa., assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application November 23, 1948, Serial No. 61,542
10 Claims. (Cl. 18—54)



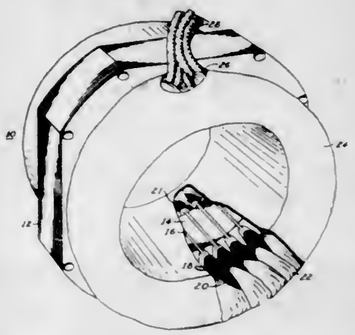
1. A process of producing high tenacity regenerated cellulose filaments having a long flex-life comprising the steps of extruding viscose having a temperature of 30° C. to about 70° C. into an acid regenerating and coagulating bath having a temperature of at least 40° C., stretching the filaments 40 to 80% after partial regeneration but before complete regeneration, washing the filaments and completing the regeneration, relaxing the filaments 3 to 10%, and drying them.

2,611,929
METHOD OF PRODUCING SHAPED ARTICLES FROM ARTIFICIAL OR SYNTHETIC FIBER- OR FILM-FORMING MATERIALS
Howard M. Hoxie, Chester, Pa., assignor, by mesne assignments, to The Chemstrand Corporation, Decatur, Ala., a corporation of Delaware
Application June 18, 1951, Serial No. 232,208
14 Claims. (Cl. 18—54)



1. A method of forming artificial and synthetic fibers and other shaped articles which comprises continuously extruding a solution of the material to be shaped into a setting bath comprising a mixture of the solvent and a liquid precipitant for the material to be shaped, which precipitant is an extractive for the solvent, continuously withdrawing the shaped article from the setting bath to the atmosphere, continuously washing the article as it advances from the setting bath, and above the level of the setting bath, with a confined stream of liquid flowing countercurrently to the direction of travel of the article and consisting of the precipitant and at most a minor proportion of the extrusion solvent, collecting the liquid from the washing step, and continuously delivering liquid collected from the washing step to the setting bath in a controlled amount which is dependent on the relative proportion of precipitant to solvent in the liquid from the washing step and on the amount of solvent introduced into the bath by extrusion of the solution of the material to be shaped, so that the relative proportions of precipitant and solvent in the setting bath are thereby maintained substantially constant from the beginning to the end of the extrusion.

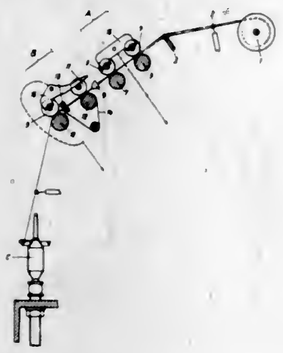
2,611,930
INSULATING ELECTRICAL APPARATUS
Lawrence R. Hill, Pittsburgh, Pa., and John A. Campbell, Lawson, Mo., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 6, 1948, Serial No. 42,824
2 Claims. (Cl. 18—59)



1. In the process of insulating a stator for a dynamo-electric machine, the stator comprising stacked laminations forming a core having an internal bore with longitudinal slots therein, and electrical windings disposed in the slots and extending beyond the laminations to form end windings and having stator leads connected to the windings, the steps comprising forming a flexible tubular membrane from a sheet of polyvinyl alcohol having an opening therein, applying the tubular membrane to the internal bore of the stator and turning over the ends to cover the end windings and the internal surface of the stator bore with the ends of the tubular membrane in sealed relation against the core, the stator leads passing through the opening in the tubular membrane, sealing the ends of the tubular membrane against the core, providing means within the stator bore to maintain the membrane in intimate contact with the interior surface of the stator, placing the assembly of stator, membrane, and the means for maintaining the membrane in intimate contact with the stator bore in an impregnating chamber, exhausting the air from the impregnating chamber, admitting to the impregnating chamber a liquid solvent reacting composition capable of being converted to the solid state without evolution of gases or moisture, the composition com-

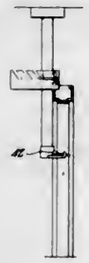
prising a polymerizable liquid monomer having the group $H_2C=C<$ and an unsaturated resinous ester copolymerizable therewith, the quantity of resin admitted to the chamber being sufficient to cover the stator, applying pressure to the resin whereby the resin is forced through the opening in the membrane for the stator leads into the space enclosed by the membrane, removing the stator assembly from the impregnating chamber, and subjecting the stator assembly to heat for a time sufficient to cause the composition to be converted to the solid state, and subsequently removing the means for maintaining the membrane in intimate contact with the interior surface of the stator bore, and removing the membrane from the stator.

2,611,931
ARRANGEMENT FOR PRODUCING A SPUN SHORT-FIBER YARN
Rudolf Wildbolz, Winterthur, Switzerland, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland
Application January 14, 1948, Serial No. 2,245
In Switzerland June 20, 1947
1 Claim. (Cl. 19—0.35)



Apparatus for producing spun yarns from continuous filaments, comprising a rotatable supply bobbin adapted to carry a sliver of substantially continuous filaments to be unwound therefrom, a spreading device for spreading the sliver unwinding from said bobbin to form a flat sheet of continuous juxtaposed filaments, a tearing mechanism including two successively arranged spaced pairs of cooperating upper and lower rollers having fluted surfaces for gripping said sheet of continuous filaments, means for weighting the upper rollers of both said pairs, the second pair of said pairs of rollers rotating at a greater speed than the first pair of rollers for breaking the filaments passing through said two pairs of rollers into staple fibre lengths, a condenser disposed at the delivery side of said second pair of rollers for collecting the sheet of staple fibres delivered therefrom to a bundle, a drawing mechanism receiving the bundle of staple fibres from said condenser and drawing the fibres, said drawing mechanism including two successively arranged spaced pairs of cooperating upper and lower gripping rollers, means for weighting the upper rollers of both pairs of drawing rollers independently of said weighting means of the upper tearing mechanism rollers, a slip roller and a travelling belt coacting with each other intermediate said two pairs of rollers of the drawing mechanism, and means for winding the yarn delivered from the drawing mechanism on a package.

2,611,932
DOOR FRAME MOUNTING
Carl Olsson, Bronx, N. Y.
Application November 16, 1945, Serial No. 629,183
5 Claims. (Cl. 20—11)



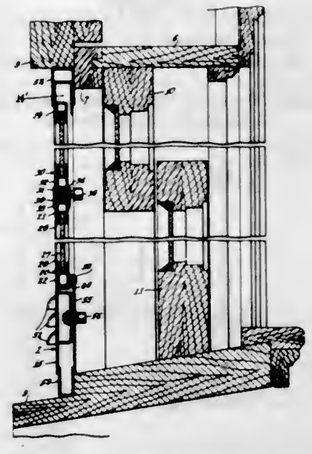
3. A device for securing a door frame in position to form a wall or partition there-around, said device including a door frame having a channel shaped cross section, a stud member extending from the mid-portion of the frame to the ceiling, a cross member affixed to the lower end of the stud and slidingly wedged between the jambs of said door frame to hold said stud in parallel relationship with the jamb of said frame, a clamp having a downwardly moved wedging means to grip said stud, said clamp resting on the lintel of the door frame, and means to force said clamp upwardly away from said door frame to increase the wedging grip of said clamp on said stud while increasing the compression stress in said stud.

2,611,933
STORM DOOR AND PANEL CONSTRUCTION
Edward F. Comfort, Detroit, Mich.
Application November 19, 1949, Serial No. 128,340
1 Claim. (Cl. 20—39)



The combination with a storm door having a plurality of independent glass panes, said panes having their marginal edges in putty channels of vertical and horizontal pane spacing members in which said panes are disposed, putty holding said edges in said channels, of a closure substituted for one of said panes, said closure comprising a rectangular sheet metal frame of substantially the same thickness and outside dimension as the panes in the other portions of the door, the marginal edges of said frame being disposed in and anchored in the channels of adjacent vertical and cross members of the door, putty in said last named channels holding said metal frame in said channels, a vertical bar in the metal frame dividing said frame into two openings, a pane in one of said openings, a hinged closure in the other of the two openings, said hinged closure having a pane therein, said hinged closure having one of its sides hinged to the vertical bar of the frame, said closure being in the plane of the rectangular sheet metal frame.

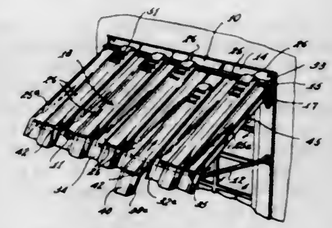
2,611,934
ALL-WEATHER WINDOW
Louis J. Milone, Livingston, N. J., assignor to Orange Screen Company, Maplewood, N. J., a corporation of New Jersey
Application January 4, 1946, Serial No. 639,016
3 Claims. (Cl. 20—55)



1. In a window construction, a window frame to be inserted in a window opening in a structure, said window frame comprising a head member, a sill member and opposite side members defining a single, substantially rectangular aperture in which a plurality of sashes are received, said head member being of channel form opening downwardly, said sashes including an upper insert panel and a lower insert panel, said upper panel telescoping in said channel head, cooperating latch means on said upper panel and on at least one of said opposite side members for holding said upper insert panel securely against downward movement and in a telescoping position in said channel head, said latch means including a movable latch member having a downwardly and outwardly inclined portion which engages a cooperating edge on another cooperating member permitting upward movement of said upper panel without manual release of said latching means, said latch member also having a horizontally disposed edge portion restraining said upper panel against downward movement and requiring manual actuation to release said upper panel for downward movement, out of said channel head, and spring means carried by said window frame bearing against and urging at least one of said panels against said window frame in weather-tight relation thereto.

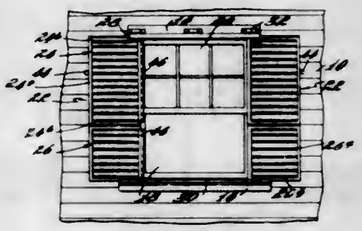
2,611,935
VENTILATED AWNING
David Kramer, West Los Angeles, and Olin H. Stapp, Montebello, Calif., assignors, by mesne assignments, to Air-Vent Awning Company, Los Angeles, Calif., a partnership
Application August 6, 1949, Serial No. 108,904
9 Claims. (Cl. 20—57.5)

1. An awning which includes: generally horizontal supporting means; a plurality of spaced parallel trough members secured to, and inclined downwardly from said supporting means to provide longitudinally extending drainage surfaces, the lower end of each member being deflected to form an overhanging skirt portion angularly intersecting said drainage surface; upwardly turned lateral flanges on the inclined and overhanging portions of said trough members; a plurality of parallel ridge members in alternate staggered relationship with said trough members, the edges of said ridge members each being in alignment with one edge of each of two adjacent



trough members, and the lower end of each ridge member being deflected to form an overhanging portion parallel to said overhanging skirt portion; and downwardly convergent lateral flanges on said ridge members, said flanges on said inclined portion being slidably engaged with the flanges of said trough members to provide a continuous rigid surface, and said flanges on said overhanging portion being deformable to permit the same to pass over said skirt flanges and resilient whereby to spring back into engagement with said skirt flanges to interlock said members.

2,611,936
COMBINATION SHUTTER AND AWNING
Everett T. Wheeler, Brookline, Mass.
Application May 22, 1951, Serial No. 227,684
15 Claims. (Cl. 20—57.5)



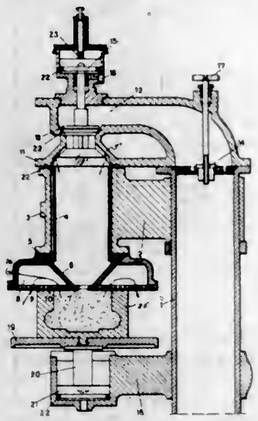
1. A combination shutter and awning comprising a pair of shutter frames, each frame being transversely articulated to provide upper and lower sections movable relative to each other, means supporting the frames for movement from positions at opposite sides of the window to positions covering the window and means supporting the frames for swinging movement from positions parallel to the plane of the window to positions extending angularly out from the window, said lower sections being movable in unison with the upper sections to window covering position and thereafter relative to the upper sections, to dispose the lower sections at an angle to the upper sections and means for fixing the angular disposition of the upper and lower sections.

2,611,937
SEALING ARRANGEMENT FOR SLIDING CLOSURES
John W. Kendrick, Chicago, Ill., assignor to Met-L-Wood Corporation, Chicago, Ill., a corporation of Illinois
Application March 17, 1950, Serial No. 150,248
2 Claims. (Cl. 20—69)



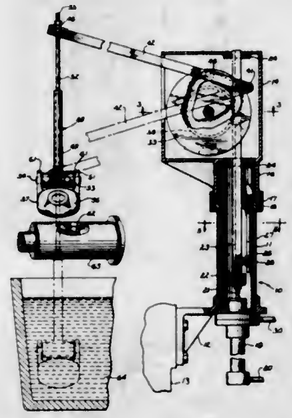
1. A sealing arrangement for a sliding closure, which closure has an edge adapted to be moved into sealing relation with a juxtaposed surface comprising a strip of sealing material of substantially U-shaped cross-section adapted to have its base secured to said edge of said closure so that the arms of the U protrude outwardly therefrom, said base of said strip having a longitudinal opening therein so that the upper portion of said base is in the form of a deformable web, an upstanding flange member adapted to be disposed on said juxtaposed surface so as to be received between the arms of said strip and to abut said web when said edge is brought into close association with said juxtaposed surface, the outer extremities of said arms at the same time being adapted to abut said surface at the base of said flange member and to be bent slightly inwardly thereby so that the outer lateral surfaces of the extremities of said arms closely abut said juxtaposed surface.

2,611,938
MACHINE FOR RAMMING FOUNDRY CORES BY MEANS OF COMPRESSED AIR
Fritz Hansberg, Milan, Italy
Application October 15, 1949, Serial No. 121,485
In Italy June 15, 1949
3 Claims. (Cl. 22—10)



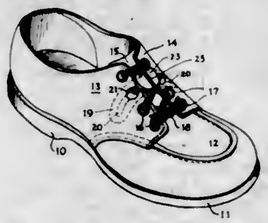
1. A core blowing machine employing compressed air, comprising in combination a frame structure including a sand chamber having a wide air inlet opening and a narrow sand outlet opening, valve means disposed in said inlet opening for controlling the admission of compressed air into said chamber, valve control means for opening and closing said valve means, and a lining member including a plurality of transverse openings therethrough disposed within said sand chamber spaced apart from the chamber wall and open ended at the side facing the valve means, said valve means including a valve body and a guide member mounted on the side of said valve body facing the said chamber and movable in unison with the valve body, said guide member being shaped and positioned relative to the space between the chamber wall and the lining member so as to direct compressed air into the said space and to provide space for the flow of compressed air into the sand chamber upon opening of said valve means.

2,611,939
AUTOMATIC LADLING MEANS
Albert S. Kux, Chicago, Ill., assignor to Kux Machine Co., Chicago, Ill., a corporation of Illinois
Application November 15, 1948, Serial No. 60,090
4 Claims. (Cl. 22—79)



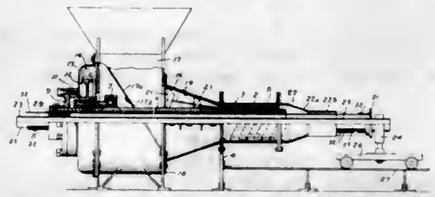
4. A device for automatically ladling a liquid comprising a fixed support, a member mounted for rotation on said support, a ladle, means attached to said member for supporting said ladle, an elongated member movable axially of said support and keyed to said rotatable member, a vertically extending cam groove associated with said support, a cam follower associated with said elongated member and in cooperative engagement with said cam groove, means for moving said elongated member axially of said support so as to rotate said rotatable member and with it swing said ladle about the vertical axis of said support.

2,611,940
SHOELACE TIGHTENER
Thomas C. Cairns, Niles, Ohio
Application April 20, 1950, Serial No. 157,097
3 Claims. (Cl. 24—140)



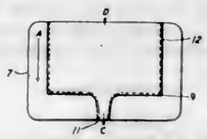
1. A shoelace tightener for a shoe having a tongue, oppositely disposed uppers overlying the tongue and eyelets positioned in the edges of said uppers and comprising an arcuate body member adapted to be disposed transversely beneath the said uppers and over said tongue, longitudinally extending slots in the said body member and fasteners positioned in oppositely disposed relation in the said eyelets in the uppers and slidably engaged in the said slots in the said body member whereby the body member is loosely secured to the said uppers, a knob pivotally affixed to said body member midway between the ends thereof and located between the edges of the said uppers, and a deep transverse slot formed in said knob.

2,611,941
APPARATUS FOR THE EXTRUSION MOLDING OF CONCRETE AND LIKE MATERIALS
George Johann Felix Leitl, Port Melbourne, Victoria, Australia
Application November 25, 1949, Serial No. 129,215
In Switzerland November 29, 1948
7 Claims. (Cl. 25—14)



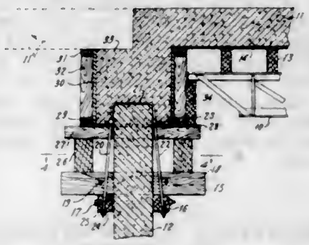
1. In apparatus for the extrusion moulding of concrete and like materials, an Archimedean screw of the square thread type, a tube with a smooth peripheral portion extending lengthwise of and abutting the screw, a cylindrical housing encircling said screw and forming an annular passage for the material, means for feeding the material into one end of said annular passage, a nozzle at the other end of said passage, means for rotating said screw and tube, and a series of ribs extending lengthwise at circumferential intervals on the inner surface of said housing, the inner surfaces of said ribs being contiguous with the outer periphery of the screw so that circumferential movement of the material within said annular passage is restrained by said ribs whereby the material is forced directly forwards by the screw towards said nozzle.

2,611,942
DEVICE PERMITTING THE INTRODUCTION OF ADVERTISING MATTER IN A PIECE OF TRANSPARENT SOAP
Albert Auzière, Marseille, France
Application November 17, 1950, Serial No. 196,228
In France November 24, 1949
1 Claim. (Cl. 25—106)



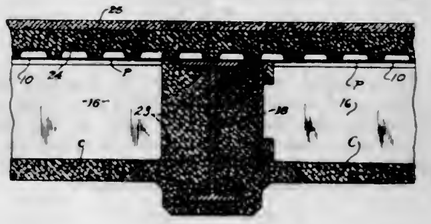
Cutter blade for partially dividing a cake of soap so as to permit the introduction thereinto of a display member, consisting of a single thin rectangular plate of dimensions corresponding to the dimensions of the display member and serving to form an opening in the cake of soap of such a size as to receive the display member therein, said plate having front and lateral sharpened cutting edges thereon to assist penetration of the plate into the cake of soap, and a single rectangular forward extension portion integral with the plate and disposed centrally on the forward edge thereof to serve as a stop limiting the penetration of the blade into the cake of soap, said extension having its front edge sharpened to form a cutting edge so as to penetrate completely through the cake of soap and form an air outlet therein through which the air is expelled when the display member is inserted.

2,611,943
ROADWAY LOAD HANGER
John B. Templeton, Dallas, Tex.
Application July 30, 1948, Serial No. 41,581
2 Claims. (Cl. 25—131.5)



1. A hanger device for concrete structures including, an inverted U-shaped hanger having outwardly flared depending side legs, side rods detachably connected to the lower ends of the legs, and a rectangular frame comprising a lower pair of parallel bars adapted to snugly embrace the sides of a post and in which the lower ends of the rods are secured and an upper pair of parallel bars crossing and resting upon the lower bars at right angles thereto adapted to snugly embrace the sides of a post.

2,611,944
METHOD OF FORMING FLOOR AND CEILING STRUCTURES
Alonzo W. Bailey, Cleveland, Ohio
Application April 29, 1949, Serial No. 90,496
5 Claims. (Cl. 25—154)



1. The method of forming a concrete floor and ceiling in a steel frame building structure comprising suspending a steel load-carrying floor member from the steel framework of the building in spaced relation with the lower face thereof, pouring concrete thereover to form a celing, removing the member from beneath the ceiling and securing it to the upper face of the steel framework of the building, and pouring concrete thereover to form a composite floor structure.

2,611,945

METHOD OF RUSTPROOFING IRON AND STEEL REINFORCING ELEMENTS FOR STEAM CURED CONCRETE

Lennart Hans Simonsson, Stockholm, and Leo Torsten Ulfstedt, Sodertalje, Sweden, assignors to Internationella Siporex Aktiebolaget, Stockholm, Sweden, a company of Sweden

No Drawing. Application September 11, 1950, Serial No. 184,342. In Sweden September 15, 1949

12 Claims. (Cl. 25—154)

1. The method of rust-proofing iron and steel reinforcing elements for steam-cured concrete, which comprises coating such elements with a liquid aqueous slurry of a finely ground mixture of lime and a reactive siliceous material containing a small proportion of a hydrophilic organic colloidal binding material which at least swells in water in an amount sufficient to render the coating flexible and tough and to produce a binding action in the coating, drying the coating thus applied before it has had time to set, surrounding the so-coated reinforcing elements with a concrete grout, and subjecting the whole to a curing by steam, whereby the lime and siliceous components of the coating react with each other and set producing a tight waterproof joint between the reinforcing elements and the concrete.

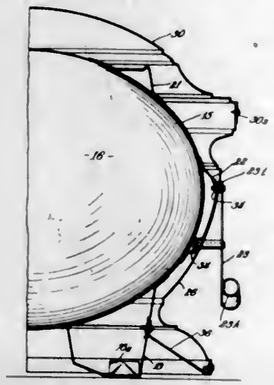
2,611,946

COMBINATION TRANSPORT COFFIN AND CASKET

Nicholas L. Etten, Waterloo, Iowa, and John M. Beach, Grand Rapids, Mich.

Application April 10, 1946, Serial No. 661,141

7 Claims. (Cl. 27—6)



6. In a burial receptacle for the human body, a tubular and sealable coffin, coffin enclosing casket-forming members in the form of interconnectable side, end and top panels, and means for attaching said panels to said coffin to give the coffin the appearance of a burial casket.

2,611,947

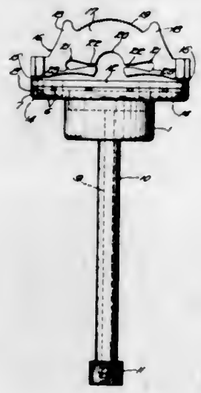
YARN DESIGN FORMING TOOL

Anthony J. Ciroli, Medford, and Philip J. Cannata, Boston, Mass.

Application January 13, 1950, Serial No. 138,428

5 Claims. (Cl. 28—2)

1. A tool for forming designs with yarn comprising a flat hollow casing having spaced holes in its peripheral edge, a rotatable disk within said casing carrying a plurality of wire fingers which extend radially through the spaced holes in said casing and over which yarn may be wound, a handle for rotating said disk relative to the casing for retracting said wire fingers



within said casing, and a removable cross piece mounted diametrically across said casing having a convexly curved serrated upper edge.

2,611,948

TOOLHOLDER

Karl Ziegler, St. Kilda, Victoria, Australia

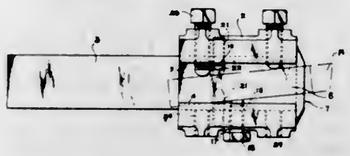
Application January 10, 1948, Serial No. 1,545

In Australia January 9, 1947

Section 1, Public Law 690, August 8, 1946

Patent expires January 9, 1967

11 Claims. (Cl. 29—98)



1. An improved tool holder for lathes and the like comprising a body member provided with means for detachably connecting it to a tool post on the lathe and having a central bore, a tool supporting element mounted longitudinally in said bore and circumferentially adjustable therein, said element having an elongated longitudinally extending tool seat to support an elongated tool longitudinally of the bore with the working end of the tool beyond the end of said bore, said seat being inclined lengthwise of said tool supporting element to tilt the axis of the tool upwardly towards its outer end and determine the top rake angle of the tool, means for partially turning the tool supporting element circumferentially within said bore to adjust the side rake angle of the tool, anchoring means for securing the tool supporting element in the desired operative position and means for retaining the tool upon its seat.

2,611,949

TOILET TANK FITTING HOLDING TOOL

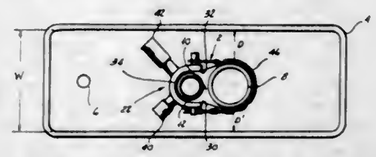
Seth Wanamaker, Ramsey, N. J.

Application October 8, 1949, Serial No. 120,256

5 Claims. (Cl. 29—285)

1. An assembling and disassembling fixture for the outlet fitting of a toilet tank, said outlet fitting having a rounded end portion having the main discharge opening therethrough and a

laterally extending hollow portion having the overflow connection therein, said fitting lying on the bottom of the tank, the fixture comprising a main body portion of generally U configuration, the legs of the body portion lying generally parallel to each other and being spaced sufficiently to embrace the side surfaces of the extension on the fitting and of such length as to



extend along a major portion of the length of such extension of the fitting, the inner confronting edges being sharp, two buffers on the outer surface of the bight of the U-shaped body, one buffer extending generally opposite to one leg and the other buffer extending generally opposite the other leg, the distance between the outer corners of the buffers being at least slightly less than the width of the toilet tank.

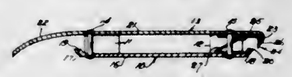
2,611,950

CAN PUNCH

Thomas Kaskouras, Chicago, Ill.

Application April 9, 1951, Serial No. 219,939

1 Claim. (Cl. 30—16)



An opener for cans comprising a bottom member having an upwardly extending hook portion adapted to fit beneath the rim of a can, a top member spaced from said bottom member, said top member having a downwardly extending lip, a cutting member comprising a base exending beneath said top member and a blade extending downwardly from said base adjacent said lip, and a spring positioned between the base of said cutting member and said bottom member, said spring providing upward pressure against said base, said base adapted to move downwardly against the pressure of said spring when said blade is in use, to keep said blade continually pointing directly downward toward the top of the can during the cutting operation.

2,611,951

ADJUSTABLE HAIRCUTTING INSTRUMENT

Marc Tully, Marseille, France

Application January 9, 1948, Serial No. 1,284

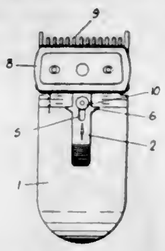
In France October 2, 1946

Section 1, Public Law 690, August 8, 1946

Patent expires October 2, 1966

1 Claim. (Cl. 30—31)

A hair cutting instrument comprising a toothed comb integral with a handle portion and having a slot in each side, a bladeholder carrying a cutting blade and slidable on the comb in the longitudinal direction of the teeth, said bladeholder having a shank with a longitudinal slot, screw means carried by the comb engaged through the longitudinal slot for securing the bladeholder to the comb, a downwardly-projecting integral lug formed at each side of the bladeholder to move in the side slots of the comb, and a projection at each side of the shank of the bladeholder coacting with a scale provided on the comb to



serve as indicating means for the relative positioning of the blade and comb.

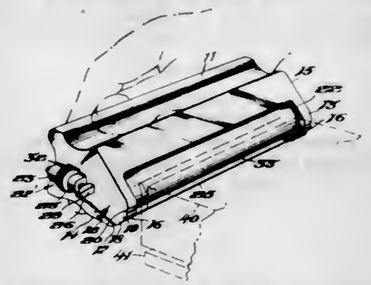
2,611,952

CHEESE SLICING DEVICE

John Chambers, Newport, R. I.

Application September 26, 1950, Serial No. 186,765

2 Claims. (Cl. 30—116)



1. In a device for slicing cheese, an elongated body, a removable roller, walls extending laterally from the same side of the body at the ends thereof, one of said walls having a bearing opening therethrough of a size to receive the roller, said opening forming a bearing for one end of said roller, means in the other wall providing a bearing for the other end of the roller and an abutment limiting axial movement of the roller in one direction, said roller when against said abutment being of a length to extend but partially through the first said wall opening, an abutment plug in said opening limiting the axial movement of the roller in the other direction, a cutting wire extending between said walls and over the outer surface of said plug to hold the same in its opening.

2,611,953

PIVOTED BLADE MOUNTED ON A THIMBLE

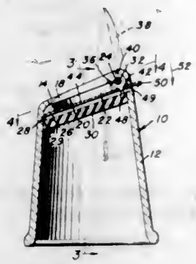
Lee P. Bruening, Glendale, Calif.

Application August 26, 1949, Serial No. 112,487

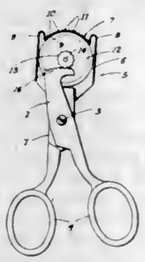
1 Claim. (Cl. 30—159)

A cutting tool comprising a finger receiving shell having an upper end wall provided with a transverse slot, a split annular ring positioned in said shell, the lower surface of said end wall and having spaced opposing ends disposed at opposite sides of one end portion of said slot, a cutter blade pivotally mounted between the ends of said ring and projectable and retractible in the slot, resilient means for projecting said blade, a split annulus positioned in said shell in abutment with the lower surface of said ring and having spaced opposing ends in register with the ends of the ring, a resilient limb connected at one end there-

of to said annulus at a point diametrically opposite the space between the ends thereof, said limb extending diametrically of said annulus, coacting means provided on said blade and in said limb for locking the blade in its retracted position, said limb having an outer portion projecting outwardly from the shell to provide a depressible finger piece for disengaging said coacting means, said shell having an inner wall provided with an annular groove, and a split locking ring positioned in said groove in abutment with the lower surface of said annulus for retaining the latter and said annular ring in said shell.



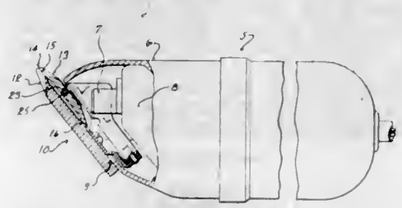
2,611,954
SEAM RIPPING DEVICE
Peter A. Schmitt, Modesto, Calif.
Application March 13, 1950, Serial No. 149,307
1 Claim. (Cl. 30—211)



A seam ripping device comprising a pair of scissors-like shanks pivoted together intermediate their ends, a hollow head projecting forwardly from and secured to the front end of one shank, the other shank movably projecting into the head, said head having thin opposed walls merging toward each other to provide a substantially sharp edge at the outer periphery of the head, there being a row of slots cut through said walls from said outer periphery, and a thin disc cutter mounted within the head for working motion across the row of slots; there being means between the cutter and the other shank to oscillate the cutter upon relative movement of the shanks about the pivot.

2,611,955
CUTTERHEAD FOR HAIR CLIPPERS
Ellis M. Brown and Ernest Harry Forss, Racine, Wis., assignors to John Oster Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application January 31, 1949, Serial No. 73,831
4 Claims. (Cl. 30—223)

1. A cutter head for hair clippers, comprising: a stationary blade having a back edge and a toothed front edge; a movable blade superimposed upon the stationary blade and having cutter teeth on its front edge coacting with the teeth of the stationary blade; a U-shaped spring yoke having substantially parallel blade-like arms flatwise opposing one another and relatively close together, said blade-like arms having a length slightly less than the distance between the front and back edges of the stationary blade, and the free end portions of the blade-like arms providing spaced opposed driving abutments to receive a rotatable driving eccentric therebetween; flanges on the free ends of the blade-like arms extending from the outer sides of the arms adjacent to one edge thereof and lying in a common plane normal to the flatwise planes of the blade-like arms; a connection between the spring yoke and the stationary blade mounting the yoke on the cutter head with the bight of the U



spaced from but directly over and substantially aligned with the back edge of the stationary blade and the arms of the spring yoke projecting toward the cutting edge of the head, and with the flanges on the arms pressed flatwise down upon the movable blade to hold the blades together under tension, said connection including resilient means on the bight of the U-shaped spring yoke projecting toward the free ends of the blade-like arms in spaced relation to the edges having the flanges extending therefrom and secured to the stationary blade; and means drivingly connecting the flanges on the free ends of the blade-like arms with the movable blade so that rotary motion of an ecentric engaged between said driving abutments may be yieldably translated into reciprocatory movement of the movable blade through the resilient blade-like arms of the spring yoke.

2,611,956
DENTURE
Maurice I. Coleman, Baltimore, Md., assignor to Warren-Laboratories, a partnership composed of William Wolfson & Maurice I. Coleman, Baltimore, Md.
Application November 16, 1949, Serial No. 127,726
9 Claims. (Cl. 32—5)



1. A partial denture comprising a structural base member composed of relatively light metal, an attachment composed of a dissimilar relatively soft metal, and a projection containing angular notches integral with said structural member and embedded in said attachment.

2,611,957
PRECISION STRESS BREAKER FOR REMOVABLE PARTIAL RESTORATIONS
Placido G. Baca and Faustine G. Baca, Los Angeles, Calif.
Application April 27, 1950, Serial No. 158,442
13 Claims. (Cl. 32—7)



1. A dental connection for use in connecting a partial dental plate to a natural abutment tooth of a jaw at the posterior side thereof, comprising: a slide member secured to the partial plate at the anterior end thereof, said member being of channel shape and defining a guideway having side walls and a posterior wall, said guideway being inclined with respect to the vertical and sloping obliquely from the horizontal plane of the teeth of the jaw and in a posterior direction from said anterior end of said plate; a support bar member adapted to be detachably connected to the abutment tooth, said bar member being disposed in said guideway and having a longitudinal sliding fit therein, one of said members having an elongate opening also sloping obliquely from said horizontal plane of the teeth in a posterior direction; and a connector element carried by the other of said members and extending transversely through said elongate opening of said one member so as to allow up and down but obliquely-guided movement of said partial plate relative to said bar member in a path extending obliquely away from the horizontal plane of the teeth of the jaw and posteriorly with respect to the axis of the abutment tooth.

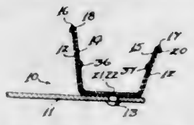
2,611,958
ARTIFICIAL TEETH
John O. Semmelman and John E. Watson, York, Pa., assignors to The Dentists' Supply Company of New York, New York, N. Y., a corporation of New York
Application January 24, 1950, Serial No. 140,284
5 Claims. (Cl. 32—8)



3. An artificial tooth comprising the copolymerization product of an olefinically unsaturated monomer containing at least one $>C=CH_2$ group and an unsaturated polyester resulting from the condensation of a dihydric alcohol with an alpha-beta ethylenically unsaturated dicarboxylic acid anhydride containing 1 to 25% by weight of a filler coated with diallyl diethoxysilane.

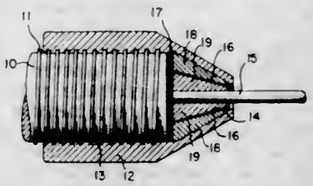
2,611,959
DENTAL MOLD TRAY
Frederick Wilbur Baum, Scarsdale, N. Y., assignor to Mechanical Equipment Corp., Paterson, N. J., a corporation of New Jersey
Application November 5, 1949, Serial No. 125,826
1 Claim. (Cl. 32—18)

A device for preparing a split mold of a tooth to be thereafter used to hold a cavity filling in place during setting thereof, comprising, in combination, a handle, a short, straight channel member pivotally mounted on said handle, the upper edges of said channel being notched, and a split molding tray adapted to be held in said holder, said split tray comprising a pair of angle members conforming to the shape of the channel sides, each said member having a bent over lug thereon at the top, said lugs conforming with



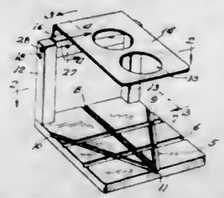
said notches in said channel, each said member being provided with a depression in its vertical wall, said depressions being opposite each other to cooperate with a clamping means, whereby said members with hardened molding material therein may be clamped about a tooth to hold the filling during setting.

2,611,960
SHOCK ABSORBING MEANS FOR POWER-DRIVEN HAND TOOLS
Julian Herndon, Leesburg, Fla.
Application October 25, 1949, Serial No. 123,465
4 Claims. (Cl. 32—26)



1. A drill assembly comprising chuck fingers a drill bit adapted to be engaged by the chuck fingers, a stock, an actuating sleeve rotatably mounted on the stock, the movement of the sleeve being adapted to actuate the chuck fingers, each of said chuck fingers including an outer section and an inner section, the outer section bearing against the sleeve and the inner section engaging the drill bit, and a resilient core interposed between said outer and inner sections to break the direct metallic pulsations transmitted to the operator.

2,611,961
DENTAL ARTICULATOR
Irwin G. Neer, Chicago, Ill.
Application September 29, 1950, Serial No. 187,495
2 Claims. (Cl. 32—32)



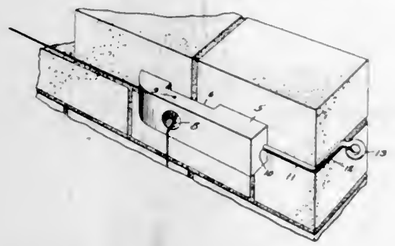
1. A base for an articulator comprising a rectangular plate having a deep longitudinal centrally located groove, two deep parallel transverse grooves intersecting said longitudinal groove, and two deep diagonal grooves meeting to form a V having its apex coincidental with one end of said longitudinal groove, each of the diagonal grooves intersecting said transverse grooves and terminating at the sides of the plate.

2,611,962
DENTAL DRILL
Gustaf Erik Björklund, Stockholm, Sweden
Application August 6, 1947, Serial No. 766,594
In Sweden August 12, 1946
2 Claims. (Cl. 32—48)



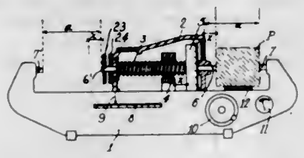
1. A dental drill comprising an elongated member adapted for reception in the socket of a dental tool holder, a cutting portion on one end of said member, an annular groove adjacent the opposite end thereof, a tapered shank portion gradually enlarging from said annular groove and merging into an intermediate portion, the diameter of said intermediate portion being the same as the maximum diameter of said tapered shank, a tapered spindle portion gradually enlarging from said cutting portion and terminating in a shoulder formed on said intermediate portion, the average diameter of said spindle portion being less than that of said shank portion, and a pin projecting through said intermediate portion for preventing rotation of said drill in said holder, said groove being adapted to receive fastening means for maintaining said drill securely positioned within said holder.

2,611,963
MASONRY LINE BLOCK
Louis N. Zinken, St. Cloud, Minn.
Application June 30, 1950, Serial No. 171,428
1 Claim. (Cl. 33—85)



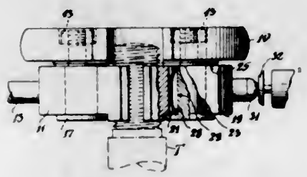
A guide line holding device comprising an elongated body of substantially rectangular cross section said body having a transversely extending recess opening through one side intermediate the ends thereof, said body having an opening extending therethrough intermediate the ends thereof and communicating with the recess, said body also having a longitudinal guide line receiving groove in the side thereof having the recess, said groove communicating with the recess and extending through one end of the body, a line guiding and securing pin carried by the body and extending transversely across the opening along an axis which lies perpendicular to the longitudinal axis of the body, and means carried by the body and extending laterally from the end thereof remote from the groove for engaging a wall and holding said body against longitudinal movement under the influence of pull on a line extending through the groove and engaging the pin.

2,611,964
APPARATUS FOR MEASUREMENTS BY VARIATION OF ELECTRICAL CAPACITY
Pierre Buisson, Vanves, France
Application October 9, 1945, Serial No. 621,344
In France October 7, 1944
14 Claims. (Cl. 33—147)



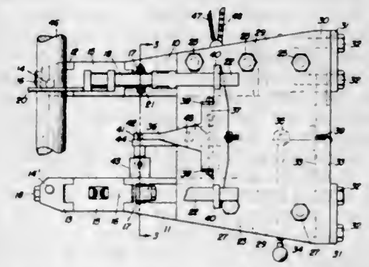
11. An apparatus for measurements of changes in the relative position of two elements, comprising a pair of coaxial helicoidal electrodes of the same pitch but different lengths radially, physically and electrically separated from each other, mounting means for said electrodes permitting relative axial and relative angular movement, thereof, measuring means operable to impart one of said movements to said electrodes, compensating means operable independently of said measuring means to impart the other of said movements to said electrodes, the pitch of said helicoidal electrodes being such as to cause the capacitance of said electrodes to vary at a relatively fast rate upon said one of said movements and at a relatively slow rate upon said other of said movements, and indicator means for ascertaining said capacitance in each relative position of said electrodes.

2,611,965
GAUGE WITH PIVOTAL AND LATERALLY MOVABLE GAUGE MEMBER
Paul W. Johnson, Bloomfield, Conn., assignor to The Johnson Gage Company, Bloomfield, Conn., a corporation of Connecticut
Application September 10, 1948, Serial No. 48,692
12 Claims. (Cl. 33—148)



1. A gage comprising a frame, a first gaging member having gaging means, means mounting the first gage member upon the frame for pivotal movement, a second gage member having gaging means to engage a circular test part at a plurality of substantially spaced points around the outer periphery thereof, pivot means spaced from the mounting means for the first gage member, said pivot means mounting the second gage member upon the frame in spaced relation to the first gage member for pivotal movement of the second gage member and its gaging means in adjacent relation to the first gage member and its gaging means, said pivot means including pin means secured to one of the elements including the gage member and the frame, and bearing means carried by the other element, the pin means being smaller in size relatively to the bearing means for free lateral movement of the second gage member upon its pivot means towards and away from the first gage member as it pivots, and means propelling the second gage member laterally towards the first gage member.

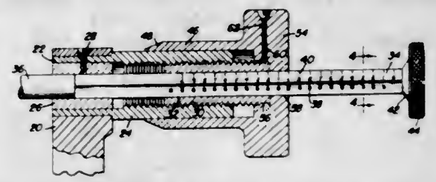
2,611,966
EXTENSOMETER
Jack Rebman, Columbus, Ohio, assignor, by mesne assignments, to The Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware
Application February 9, 1950, Serial No. 143,244
6 Claims. (Cl. 33—148)



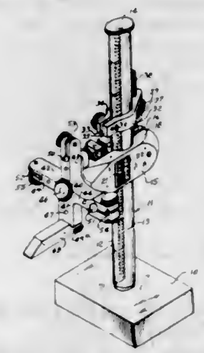
1. In a substantially U-shaped gage comprising a frame and two relatively movable specimen-contacting arms and having means pivotally mounted on said arms to hold a specimen in contact with said arms, a release mechanism comprising a lever pivotally mounted on said frame, one end of said lever adapted to contact said specimen-holding means and hold them firmly against a specimen, a hooked member on the other end of said lever, means mounted on one of said arms to slidably engage said hook until said arms have relatively moved a predetermined distance, and resilient means between said frame and said lever whereby said lever will be moved from contact with said specimen-holding members.

2,611,967
MICROMETER
Marvin F. Bennett, Hastings, Nebr.
Application July 5, 1950, Serial No. 172,075
2 Claims. (Cl. 33—165)

1. A micrometer comprising a U-shaped frame, an anvil on one end of the frame, an internally threaded barrel on the other end of the frame having graduations on its outer periphery, a sleeve threaded in said barrel and having a multi-sided axial bore, a spindle having a multi-sided and graduated end slidably received in said bore, a cylindrical body embracing the barrel and rotatable on the barrel, said body having graduations about one end for registering with the graduations on said barrel, an end wall at one end of said body having a multi-sided aperture receiving the multi-sided end of said spindle, a finger grip attached to said spindle, said multi-sided end portion including a plurality of longitudinally spaced recesses in registry with the graduations on said multi-sided end portion, and an adjusting screw extending radially through said end wall and said aperture and received in a selected one of said recesses.

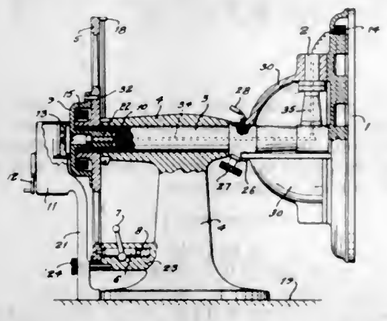


2,611,968
GAUGING INSTRUMENT
Basil D. Brown, Jr., Springboro, Pa.
Application October 8, 1949, Serial No. 120,241
3 Claims. (Cl. 33—169)



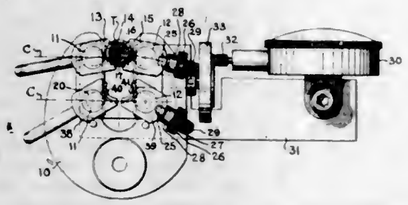
1. A gauging and lay-out instrument comprising a base having an undersurface adapted to cooperate with a surface plate and side surfaces adapted to cooperate with gauge blocks, a column carried by said base and extending perpendicularly of said undersurface, said column being provided with a scale and a splined groove both extending longitudinally thereof, a slide slidable longitudinally of said column and provided with means for clamping it in adjusted position thereon and with a window normally overlying said scale and with a vernier located in said window and cooperating with said scale, said slide being provided with a recess, a key movably mounted in said recess and cooperating with said groove, said slide carrying a locking screw extending through a slot in said key and provided with a clamping head engageable with said key whereby said key may be moved to either groove engaging or disengaging position and locked in either position, said slide having a bearing nose extending in a direction transverse and perpendicular to said column, a tool holder having a hub portion indexibly mounted on said nose and a plurality of angularly displaced arms extending therefrom in a plane parallel to said column and provided with means for mounting thereon gauging or lay-out tools, and means carried by said nose and cooperating with said holder for locking said holder in various indexed positions.

2,611,969
ELECTROMAGNETIC CLAMPING AND DIVISION APPARATUS
Klement Hrček, Brunn, Kralovo Pole, Czechoslovakia
Application August 6, 1947, Serial No. 766,799
In Germany October 4, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 4, 1963
5 Claims. (Cl. 33—174)



1. A lay-out fixture in which the objects are clamped electromagnetically to a clamping plate, comprising in combination, a shaft; an electromagnetic clamping plate; means for connecting said clamping plate to one end of said shaft; a dividing wheel loosely mounted on the other end of said shaft and having a ferromagnetic portion adjacent to said shaft; electro-magnetic clutch means magnetizing said ferromagnetic portion so as to clamp said wheel to said shaft; and a body rigidly connected to said shaft and forming part of said clutch means, said portion cooperating with said body.

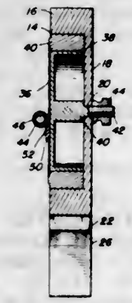
2,611,970
INDICATING COMPARATOR HAVING PIVOTED JAWS
Stanley G. Johnson, West Hartford, Conn., assignor to The Johnson Gage Company, Bloomfield, Conn., a corporation of Connecticut
Application September 29, 1947, Serial No. 776,796
12 Claims. (Cl. 33—174)



1. A gage comprising a frame, gaging mechanism carried by the frame including a gage member having gaging means which engages a part at a plurality of points around the outer periphery thereof and provides a gaging axis, a second gage member cooperating with the first gage member, means for pivotally supporting the first gage member which means is normally fixed to the frame at a point spaced from the axis of the gaging means and located so that this axis lies between the second gage member and the pivotal supporting means for the first gage member with the gaging means facing substantially radially outwardly from its pivotal supporting means and so that the first gage member pivots towards and away from the second gage member and its gaging means into and away from gaging position upon a circular path radially spaced from the second gage member, the gaging members when in use being positioned relatively to each other so that a test part of minimum allowable dimension will not pass through center position between the gage members, an extension carried by the first gage member and pivotal therewith, and means cooperating with the extension to indicate the position of the gage member at least through the gaging range.

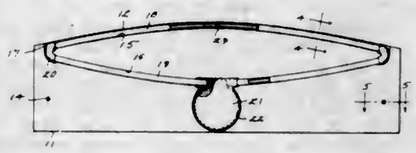
12. A gage and squareness or concentricity tester for a test part having a cylindrical portion and a portion to be tested as to squareness or concentricity with respect thereto comprising a frame, a gage member having a gaging means which engages a part to be tested at a plurality of points around the periphery thereof and provides a gaging axis, a second gage member cooperating with the first gage member, means pivotally supporting the first gage member which means is normally fixed to the frame at a point spaced from the axis of the gaging means and located so that this axis lies between the second gage member and the pivotal supporting means for the first gage member with the gaging means facing substantially radially outwardly from its pivotal supporting means and so that the first gage member pivots towards and away from the second gage member and its gaging means into and away from gaging position upon a circular path radially spaced from the second gage member, the gaging members when in use being positioned relatively to each other so that a test part of minimum allowable dimension will not pass through center position between the gage members and the test part is gripped thereby, the gaging means having as a maximum dimension the dimension of the minimum allowable test part, an extension carried by the first gage member and movable therewith, an indicator engaged by the extension to indicate the position of the gage member at least through the gaging range, and at least one other indicator to engage that portion of the test part to be tested for squareness.

2,611,971
DIVIDING PROTRACTOR
Michael Rabatine, Streator, Ill.
Application July 23, 1948, Serial No. 40,331
2 Claims. (Cl. 33—207)



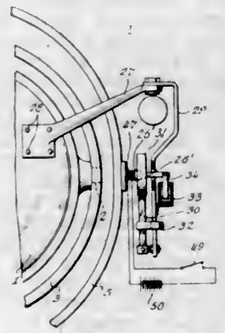
1. A measuring instrument for marking working parts on a rotatable work piece, said measuring instrument comprising a circular body section having a central circular recess in one side, a saddle plate integrally formed with said body, lateral extension plates on said saddle plate, flexible connecting means carried by said extension plates for locking the body on the work piece, a circular protractor having a peripheral flange rotatably mounted in said recess, a complementary annular ring surrounding the peripheral flange of said protractor and received in said recess for rotation about said protractor, said ring having a zero point thereon for selectively registering with indicia on said protractor, means carried by said body and engaging the ring to retain the latter in a selected rotated position, and means operatively connected to said protractor for retaining ahe protractor in a selected rotated position with respect to the zero point on said ring.

2,611,972
GRADUATED LEVEL
Adolph P. Gubrud, Hudson, S. Dak.
Application February 1, 1950, Serial No. 141,742
1 Claim. (Cl. 33—211)



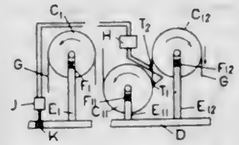
A spirit level comprising an elongated body formed with upper and lower longitudinally curved channels connected together at the opposite ends thereof, said body having a circular recess communicating with said lower channel, upper and lower longitudinally curved tubes connected together at the ends thereof and seating in said channels, and a thermo-responsive metal housing of wafer shape interposed in said lower tube and loosely seating in said recess, said housing expanding or contracting with expansion or contraction of liquid in said tubes.

2,611,973
GYROCOMPASS
Leslie F. Carter, Leonia, N. J., assignor to The Sperry Corporation, a corporation of Delaware
Application January 31, 1945, Serial No. 575,451
14 Claims. (Cl. 33—226)



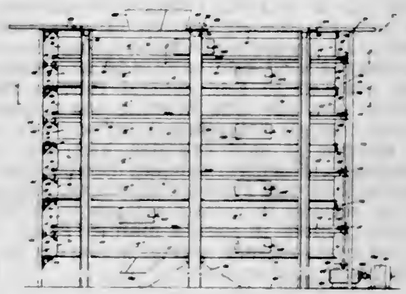
11. In a gyroscopic compass having a follow-up element and a rotor casing, means for damping the oscillations of the compass in azimuth comprising a tilt responsive element carried by said casing and a pair of cooperating magnetic elements of which one is fixed to the follow-up element and one is carried by said casing, said magnetic elements being relatively displaced laterally by said tilt responsive element upon tilt of said casing whereby a couple round the vertical axis of said casing is exerted upon tilt of said casing.

2,611,974
METHOD OF MEASURING THE MOISTURE CONTENT OF A RUNNING WEB
Nils Nilsen Strätveit, Oslo, and Arne Jūlius Schie, Drammen, Norway
Application September 26, 1949, Serial No. 117,805
In Norway August 11, 1945
17 Claims. (Cl. 34—41)



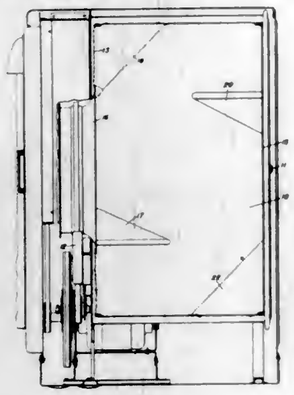
1. The method of measuring the moisture content of a running web being dried by passage through a drying apparatus comprising the step of measuring the decrease of the temperature of the web caused by evaporation of part of the water content therefrom between two spaced fixed points at a place where the moisture content of the web is below 20%, said points being so located that no substantial amount of heat is supplied to the web between said two points.

2,611,975
DIGESTER FOR MANUFACTURE OF FERTILIZER
William D. Taylor and Edmund W. Voegtlin, East Orange, and Carl E. Schlosser, Livingston, N. J.
Application June 8, 1949, Serial No. 97,722
5 Claims. (Cl. 34—54)



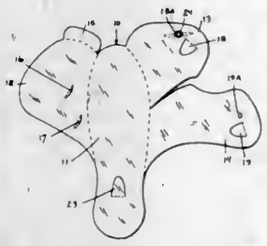
1. A material digester for the conversion of organic materials into fertilizer, comprising a plurality of containers disposed in succession about a common axis, said containers having a bottom wall and affixed side walls, said succession of containers being formed as individual units and sealed from the outside of the digester, each container having a passage for the displacement of material therefrom into the next lower container and alternate ones of said containers being mounted for rotation in their superposed relation with the other containers, plows dependingly carried by said containers, respectively, and projecting into the next lower containers, respectively, for displacing the material in the respective containers toward the respective passages therein on relative rotation between said rotary and other containers, means for driving said rotary containers and each of said containers having an air inlet, and valve means for controlling the passage of air into said containers, respectively, through their respective air inlets, and means responsive to the temperature in the interior of said containers, respectively, during the digestion process for operating said valve means.

2,611,976
DRIER
Alexander L. Reiter and Julius J. Haverstock, South Bend, Ind., assignors, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application January 8, 1947, Serial No. 720,818
5 Claims. (Cl. 34—139)



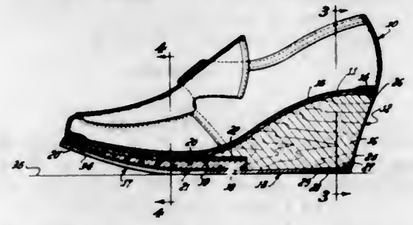
1. In a clothes drying apparatus having a rotatable cylinder mounted on a substantially horizontal axis, said cylinder having a cylindrical member forming an outer wall of said cylinder, a circular back wall, a front wall with openings therein capable of allowing air to move into and out of said cylinder, a tubular flanged member forming a central opening in said front wall of said cylinder, a plurality of baffles substantially in the shape of a right angle triangle with one side adjacent the right angle of each baffle secured to said outer wall of said cylinder and with the other side of said baffle adjacent said right angle secured to said central tubular flanged member and the side forming the hypotenuse of said triangle extending longitudinally across the interior of said cylinder, and said baffles affording said central tubular member and said front wall of said cylinder structural support as well as serving to agitate articles to be carried in said cylinder in such a manner as to expose various parts of said articles to drying air currents inside said cylinder.

2,611,977
SLIPPER HAVING WINGS INTEGRAL WITH SOLE
Masanori Yamada, St. Thomas, Ontario, Canada
Application August 19, 1949, Serial No. 111,211
1 Claim. (Cl. 36—9)



In a slipper, a single sheet of a flexible fabric being cut out to form the bottom and uppers of the slipper, said uppers comprising a first wing, a second wing and a third wing, said first wing being at one side of the said bottom and said second and third wings being at the opposite side of said bottom to that of said first wing, a retaining flap extending forward from the toe portion of said first wing and folding inward upon the setting up of said uppers, said first wing having a pair of slots of an arcuate formation therein and the material of said wing same being bent outward along one side thereof, locking tabs formed in said second and third wings by cutting a portion of the same from the body of each of the same, a locking tab integral with said bottom similar to said locking tabs in said wings and extending forward from the rear portion of the bottom of the slipper, an inner sole having an arcuate slot cut therein toward the heel of same and adapted for engagement with said locking tab in said bottom, a fastening staple secured to said second wing, said first wing being overlapped by said second wing during the setting up of the slipper and said fastening staple engaging said first wing while said locking tab engages one of the slots in said first wing, and said third wing overlapping said second wing and the locking tab of said third wing engaging in the other slot in said first wing, thus holding the slipper in its set-up position.

2,611,978
SHOE WITH TAPERED ROCKER TYPE MIDSOLE
William H. Joyce, Jr., Pasadena, Calif., assignor to Joyce, Inc., Pasadena, Calif., a corporation of California
Application December 2, 1950, Serial No. 198,866
3 Claims. (Cl. 36—19.5)



1. A covered midsole rocker type shoe construction comprising an upper attached to an insole, a midsole having a single circumferential lateral edge covered by an outer layer of material, said midsole being attached to the insole, and an outsole attached to the bottom of the midsole, said midsole comprising a forward midsole pad including cushioning material, the material of said pad substantially completely filling the space between said insole and said outsole forwardly of the ball region of said shoe, the forward portion of said midsole extending to the toe of said shoe and tapering in longitudinal thickness from the region of the ball toward the toe and both the upper and lower surfaces thereof being curved upwardly from the ball region forwardly, the bottom surface of said forward midsole portion curving upwardly more sharply than the upper surface thereof and sufficiently to provide exaggerated spring to said outsole.

2,611,979
SNOWPLOW SHOE
Ward W. Weller, Auburndale, Mass.
Application January 28, 1950, Serial No. 141,088
5 Claims. (Cl. 37—41)

1. A snow plow shoe assembly comprising a shoe formed with a central base portion and outwardly and angularly disposed arm portions having means for securing the assembly to the frame of said plow, said base portion having a plurality of apertures provided with tapered walls, a wear

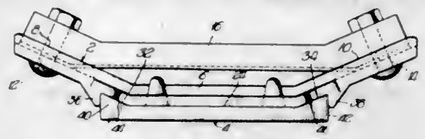
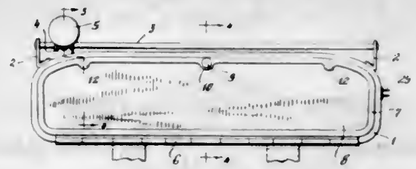


plate for said shoe having tapered lugs received by said apertures and cooperating with said walls in wedging relation, and means interengaging said base portion and said lugs for holding said shoe and plate in assembled relation.

2,611,980
PRESSER LID WITH STEAMING ATTACHMENT
Harold D. Davis, Brooklyn, N. Y.
Application June 22, 1949, Serial No. 100,569
1 Claim. (Cl. 38—3)



In combination with a pressing machine having a pressing head provided with an upper longitudinal edge and adapted to be used with a pressing cloth, a steaming attachment comprising a pair of brackets secured to said upper longitudinal edge of said press head adjacent to the ends thereof, a rod secured to and extending intermediately of said brackets, a liquid container slidably carried by said rod, spray forming means carried by said container directed at the upper surface of said cloth whereby a spray of liquid may be ejected from said container onto said pressing cloth upon the operation of said spray forming means.

2,611,981
COMBINATION ADVERTISING SIGN AND ILLUMINATING DEVICE
Ned B. Whitebread, Sterling, Ill., assignor to Kolite Plastics Co., Dixon, Ill., a partnership consisting of Jack Penhall, Henry E. Whitebread, and Ned B. Whitebread
Application May 19, 1948, Serial No. 27,987
5 Claims. (Cl. 40—130)



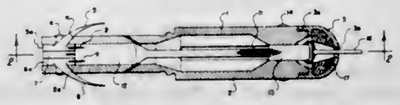
5. In an advertising and illuminating device including an edge-lit, light-transmitting transparent panel having light reflective indicia on a face thereof, and a light source housing having light-obscuring and light-emitting portions on one side thereof, all other sides of said housing obscuring the passage of light, means for supporting said transparent panel along the light-obscuring portion of said one side of said housing to receive light therefrom, a first opaque panel coextensive with said transparent panel disposed therebehind and thereagainst, and a second opaque panel supported by said first opaque panel along an edge of said transparent panel remote from said light source, whereby said light source may simultaneously illumine the indicia-bearing transparent panel by reflection, a face of the first opaque panel by direct light, and a face of the second opaque panel by edge-delivered light through said transparent panel.

2,611,982
MINNOW DIPPER
Joseph F. Sears, Minneapolis, Minn.
Application May 4, 1950, Serial No. 159,889
7 Claims. (Cl. 43—11)



1. A dip device for catching and holding minnows and the like comprising a foraminous dip receptacle having a bottom and an open top, at least one pair of co-operating movable gripping elements mounted within said receptacle adjacent its bottom for positively engaging and holding a minnow, and mechanism for activating said gripping elements when desired to cause the same to engage and hold a minnow for impalement upon a hook.

2,611,983
RELEASABLE FISHING HOOK
Alfred W. Silva, San Diego, Calif.
Application November 24, 1950, Serial No. 197,470
4 Claims. (Cl. 43—42.06)

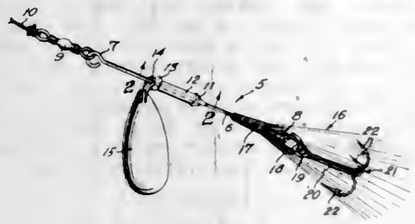


1. A frame, a plurality of hooks pivotally mounted on said frame on a common axis, latch means tending to hold said hooks in opposed extended relationship relative to said frame, a fishing line and means connected with said fishing line tending to release said latch from said hooks, permitting pivotal movement thereof when tension in said line decreases the pointed ends of said hooks being directed away from said common axis and pivotal into a position wherein said pointed ends extend away from said line nearly in axial coincidence therewith.

2,611,984
FISHING LURE
William E. Gautsche, Jr., New London, Wis.
Application July 29, 1949, Serial No. 107,555
1 Claim. (Cl. 43—42.11)

An artificial fishing lure comprising a rigid leader of substantial length, a stop fixed to the leader intermediate of the ends thereof, a buck-

tail rigid with one end of the leader and extending a substantial distance beyond that end thereof, said leader having an eye at that end having the bucktail and within the bucktail, a hook having means at one end thereof pivoted to the eye, the length of the hook being less than the length of the bucktail, said hook being adapted to be



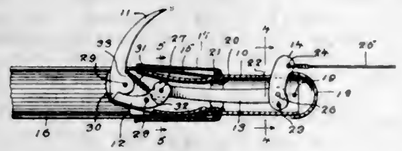
completely located within the bucktail, a sleeve loosely mounted on the leader and adapted to abut the stop, a spinner rotatably mounted on the leader and adapted to contact the sleeve, said stop, sleeve and leader being of such a length and the bucktail so closely confining the hook that the hook is incapable of contacting the spinner during a casting operation.

2,611,985
FISHING FLY
Thomas F. Lloyd, Jr., Hartford, Conn.
Application March 20, 1950, Serial No. 150,721
2 Claims. (Cl. 43—42.25)



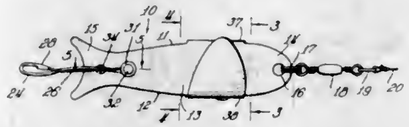
1. A fishing fly comprising a shank, a cement coat on said shank, a first layer of acetate yarn surrounding and bound in said cement, a plurality of succeeding superimposed layers of acetate yarn wound upon said first layer, said succeeding layers being coalesced by a solvent extending substantially to said first layer.

2,611,986
FISHING LURE
Alfred W. Silva, San Diego, Calif.
Application December 20, 1949, Serial No. 134,026
5 Claims. (Cl. 43—42.28)



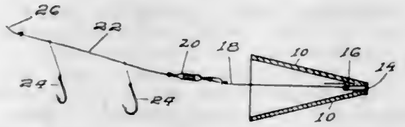
1. A squid bait comprising an elongated body, a prong pivotally mounted in the trailing end of the body, a latch pivotally mounted in the body for releasably holding the prong extended outwardly of the body, a line attaching lever pivotally mounted in the forward end of the body, a link connecting the line attaching lever to the latch whereby with tension in a fishing line attached to the line attaching lever the latch retains the prong in an outwardly extended position, and a spring for actuating the latch to release the prong as the fishing line attached to the line attaching lever is released.

2,611,987
FISH LURE
Adolph R. Hagen, Chicago, Ill.
Application July 2, 1947, Serial No. 758,569
2 Claims. (Cl. 43—42.51)



1. In a fish lure a body portion generally planar throughout, said body having a convolute fin extending from each opposite edge thereof and each fin arcuately extending at a distance therefrom across the full width and a portion of the length of each side of said body portion, said fins being wider at one end than at the other and having the wider ends of their convolutions faced toward the fore-end of said lure and convolutely tapering to form between each of said fins and said body portion water outlet spaces at the rearward part of said fins of substantially restricted cross dimension in contrast to the cross dimension of the large ends of the convolutions of said fins.

2,611,988
SINKER FOR FISHING LINES
Elgen B. Gibson, Burbank, Calif.
Application September 26, 1949, Serial No. 117,823
1 Claim. (Cl. 43—44.96)

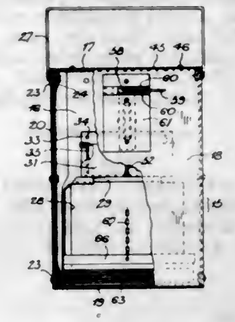


A surf casting sinker for fishing line comprising a hollow metal pyramid having an opening in its apex, a plug in said opening, the plug having a circular head and shank and being T-shaped in longitudinal cross-section, the surface area of the circular T-head of the plug being approximately equal to the surface area of the apex of the pyramid, said plug being removably and slidably mounted in the opening, a wire removably mounted in the inner end of the plug in such a manner as to prevent the plug from slipping out of the opening, the other end of the wire passing through the hollow portion of the pyramid and projecting beyond the base thereof, and means for attaching a line, leader and hooks to said projecting end of the wire, the removal of said plug allowing of the free passage of the fishing line through the opening in the sinker whereby a leader and hooks can be attached to the end of the line and beyond the apex of the pyramid.

2,611,989
ANIMAL TRAP
Edwin Larson, Milwaukee County, Wis.
Application October 19, 1946, Serial No. 704,449
2 Claims. (Cl. 43—61)

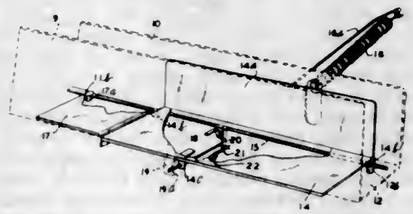
1. In an animal trap, an enclosure having an entrance, a door for said entrance movable to open and closed positions and gravitationally urged toward closed position, a longitudinally shiftable trip rod slidably supported and guided at opposite end portions by said enclosure, one of said end portions releasably supporting said door in open position and the other end portion

forming an actuator exposed at the exterior of said enclosure for manually shifting said rod to door-supporting position, said actuator end of the rod being laterally bent, an exterior guide bracket on said enclosure having a guide slot re-



ceiving the bent end of the rod, an animal-depressible platform at the lower portion of said enclosure, and means operatively connecting said platform and trip rod for shifting said rod out of door-supporting position.

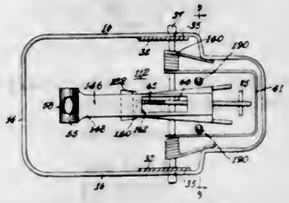
2,611,990
TRAP FOR RATS AND OTHER RODENTS
Gust Lundquist, Seattle, Wash.
Application May 27, 1949, Serial No. 95,660
6 Claims. (Cl. 43—70)



1. A rodent trap comprising structure defining a lane, a trap platform extending longitudinally at the bottom of said lane, a rotatably mounted shaft extending longitudinally of said lane, means for hinging said trap platform on said shaft, means for urging said trap platform to closed, substantially horizontal position, a latch for retaining said trap platform in closed position with the weight of a rodent supported thereon, a sensitive trip element fixedly secured to said shaft for rotating the same and disposed in said lane forwardly of said platform and in position to be engaged by the front portion of a rodent and latch actuating connections between said shaft and said latch for releasing said latch when said shaft is caused to rotate by a very light pressure being applied downwardly against said trip element.

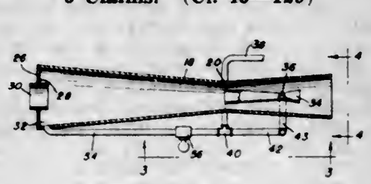
2,611,991
ANIMAL TRAP
John U. Lehn, Lititz, Pa., assignor to Animal Trap Company of America, Lititz, Pa., a corporation of Pennsylvania
Application July 3, 1951, Serial No. 235,036
3 Claims. (Cl. 43—83.5)

1. In a trap of the character described, a base, a spring actuated jaw pivotally mounted on said base, a treadle pivotally mounted on said base on a pivot member integral with said base, said treadle having a forward bait holding portion and a rearward weighted portion normally holding the bait holding portion in an elevated position, said rearward weighted portion having downwardly extending side flanges engageable with the base, said base having upwardly ex-



tending bosses adjacent said flanges for engagement with said flanges upon lateral movement of said treadle, a locking bar engageable with the jaw and the treadle to hold the trap in set position, and means integral with said jaw for engagement with the locking bar.

2,611,992
ENGINE EXHAUST OPERATED FLUENT MATERIAL DISTRIBUTOR
Cyril W. Loy and Maxwell H. Mullis, York, S. C., assignors, by direct and mesne assignments, to Kileze Company, Inc.
Application June 2, 1950, Serial No. 165,714
3 Claims. (Cl. 43—129)

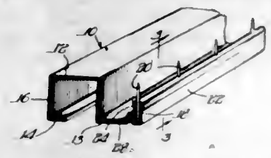


1. A vaporizer comprising a tube with means at one end for attaching and communicating said tube with an exhaust manifold pipe of an engine, whereby engine exhaust gases are directed through the tube, a venturi in said tube with a conduit connected therewith to conduct an insecticide to the interior of said venturi, said venturi being axially aligned with said tube so that the exhaust gases draw the insecticide from the conduit for admixture with and heating by the exhaust gases, a baffle closing the end of said tube opposite from said means, said baffle having a discharge opening therein and providing a trap for some of the insecticide, and a discharge pipe leading from said trap, said pipe being connected with said conduit for return of the insecticide through said conduit.

2,611,993
CURTAIN STRETCHER CONSTRUCTION
Kenneth J. Unwin, Kenosha, Wis., assignor, by mesne assignments, to Quaker Stretcher Company, Kenosha, Wis., a corporation of Wisconsin
Application May 21, 1949, Serial No. 94,675
9 Claims. (Cl. 45—24)

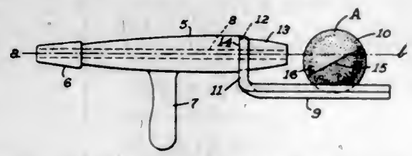
1. A frame member for a curtain stretcher or the like comprising a sheet metal body portion, an inverted U-shaped channel portion integral with and extending longitudinally along one margin of said body portion to provide a mounting groove,

a plurality of spaced holes in the top of said channel portion for the insertion of impaling pins, and



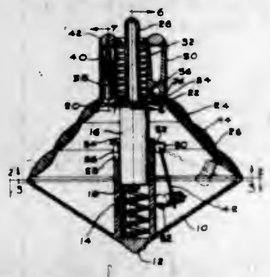
means securing the side walls of said channel portion against relative separation.

2,611,994
JET TOY
Owen R. Dailey, Rockford, Ill.
Application January 10, 1950, Serial No. 137,829
1 Claim. (Cl. 46—44)



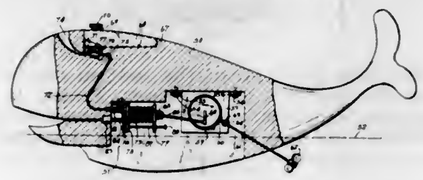
A toy consisting of a ball and a projector therefor, said projector consisting of a straight tube having a mouthpiece at one end and an elongated, integral, arcuate ball-supporting-trough at its other end, said trough forming an extension of said tube parallel to the tube axis but being displaced therefrom laterally, the distance from the axis of said tube to the lowermost part of said trough being slightly greater than one-half the diameter of said ball whereby to enable the user to impart a spinning motion to said ball while still on said trough, the outer end of said trough being unobstructed and the length of said trough being greater than the ball diameter, whereby to enable the user to gain control over the ball during the initial phase of its projection prior to leaving said trough.

2,611,995
ILLUMINATED TOP
Joseph W. Krapp, Katonah, N. Y.
Application June 5, 1948, Serial No. 31,312
1 Claim. (Cl. 46—69)



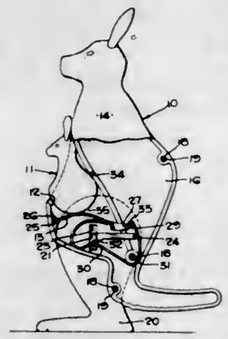
A spinning top adapted to be internally illuminated comprising an upper conical body part comprising a series of superimposed annular rings of translucent material, a lower conical part substantially opaque but of light reflective material, a sleeve upstanding from said body part coaxially with said body, a battery supported in said sleeve, a contact plate in the inside top of the upper part of said body engaging one terminal of said battery and having an extension along the inside of one side of said upper part, a contact ring on said sleeve having a finger engaging the other terminal of the battery and including a pivot, and a contact arm swingably suspended from said pivot and having a bulb receiving aperture in the free end thereof, a light bulb removably mounted in said aperture, said arm being in planar alignment with said extension whereby said bulb in said aperture will engage said contact plate when said arm swings outwardly through centrifugal forces acting thereon, said superimposed rings being of different colors.

2,611,996
SPOUTING TOY WHALE
Frank Garelick, Woodside, N. Y.
Application August 13, 1949, Serial No. 110,177
5 Claims. (Cl. 46—92)



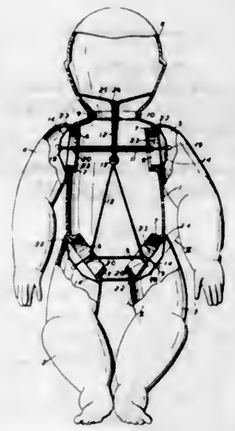
1. In an aquatic toy having a floatable body including an interior cavity within which motor means are mounted for propelling the body forwardly, a bellows mounted in the cavity, the body having an air passage extending from the cavity to an enlarged discharge opening at the top of the body, means in said passage restricting the flow of air through said passage to discharge from said discharge opening, said bellows having its discharge connected to the end of said passage which opens into said cavity so that as said bellows is operated air will be forced through said passage past said restricting means, linkage connecting said bellows to the motor means to be operated thereby to force air through said passage, and means continuously feeding water into said passage between said restricting means and said discharge opening so constructed and arranged that the water will be blown out of said discharge opening in an upwardly directed spray by the air forced through said passage.

2,611,997
ARTICLE PROJECTING FIGURE TOY
Harry Solloway and Teofil L. Bonkowski, Los Angeles, Calif.
Application December 5, 1949, Serial No. 131,104
7 Claims. (Cl. 46—123)



1. In a toy, the combination of: a base member, a body member operatively connected to said base member, said body member having a recess therein, a catapult platform pivotally connected to said body in said recess, a spring member secured to the body in said recess, one end of said spring member adapted to be compressed to provide propellent means for said catapult platform, the other end of said spring member being formed into a catch whereby said catapult platform may be cocked in operative position, and means on said base member adapted to release said catch member upon movement of the body member with respect to the base member.

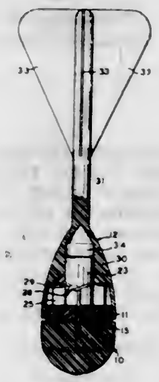
2,611,998
JOINTED DOLL
Henry Senior and George Tomlinson, Leicester, England, assignors to Cascelloid Limited, Leicester, England, a British company
Application October 16, 1947, Serial No. 780,230
In Great Britain October 19, 1946
1 Claim. (Cl. 46—173)



A doll of the character wherein at least one hollow limb is connected to a resilient element within the torso through the medium of a resilient anchor member, said anchor member including a central portion and a plurality of spaced apart triangular prongs extending outwardly from the central portion and being inclined to the plane of the central portion, the resiliency of the anchor member and the gaps between the prongs allowing the anchor member to be passed through the open inner end of the limb, the said anchor member being located within the inner end of the limb and being adapted to subtend the inner end of the limb with the prongs imbedding in the limb adjacent its inner end thus fixedly securing the anchor member to the limb, and means to connect the anchor member to the resilient element.

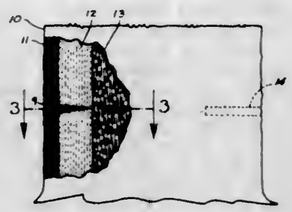
2,611,999
CAP DISCHARGE DEVICE
Raymond M. Mikolay, Chicago, Ill., assignor to Tybond Tool Engineering Company, a corporation of Illinois
Application January 16, 1950, Serial No. 138,778
6 Claims. (Cl. 46—200)

1. A cap discharge device comprising an impact head of generally hemispherical shape, a center-piece comprising a disk having a plug portion extending from one of its flat surfaces, a pair of flat surfaces on said impact head and center-piece disposed in abutting relation, a hook member extending from the flat surface of said head, said hook member extending through said disk portion, and slightly beyond said one surface, a resilient connecting member positioned on said plug portion and engaging said hook member to draw said head and center pieces together in separable relation at their abutting surfaces between which a cap may be inserted, a tail-piece comprising a cup-like housing portion and



a fin type tail portion, said housing portion having an outer diameter equal to that of said impact head and an inner diameter equal to the diameter of said disk to permit a snug fit of said disk therein for at least part of its thickness, said housing portion also having a bore in the bottom thereof to accommodate the plug portion of said center-piece in press fit relation, thereby to securely hold the elements of said device in assembled relation.

2,612,000
PRODUCING EXTRACTIVE MATERIALS FROM LIVING TREES
Arthur B. Anderson, Portland, Oreg.
Application August 24, 1949, Serial No. 112,082
13 Claims. (Cl. 47—10)



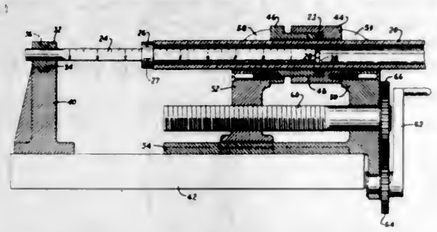
1. The method of producing extractive materials from living trees which comprises inflicting across the grain direction of the wood a substantially closed wound wherein the wood is severed and the severed wood surfaces are in substantial contact with each other, the wound penetrating a substantial distance in the sapwood of the tree, thereby causing the continuing deposition of extractive materials in the region of the wound, permitting the accumulation of the extractive materials, and then recovering the accumulated extractive materials from the wood structure in which they have been deposited.

2,612,001

METHOD OF CUTTING BRITTLE TUBING

Orlan Denlinger, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application May 12, 1950, Serial No. 161,558
6 Claims. (Cl. 49—77)



1. The method of cutting brittle tubing and the like which includes scoring the interior of the tubing along the line at which it is desired to cut the tubing, surrounding the tubing at the place of scoring with a member of a soft rubber-like material, confining the outer surfaces of said member and gradually squeezing said member to apply a pressure upon the outer surfaces of the tubing surrounding the line of scoring until the tubing is cut.

2,612,002

METHOD OF MANUFACTURING A MAXIMUM REGISTERING THERMOMETER

Robert D. Thompson, Penfield, and Laurence C. Liberatore, Rochester, N. Y., assignors to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York

No Drawing. Application May 9, 1950, Serial No. 161,022
14 Claims. (Cl. 49—79)

1. A stage in the method of manufacturing a maximum registering glass thermometer substantially free from air therein which comprises making an acceptable mercury-filled sealed blank, opening the upper end of the blank, removing the mercury from the blank, evacuating the empty blank to essentially remove all air therefrom, filling the evacuated blank with the required amount of mercury, and sealing the filled blank without trapping any substantial amount of air therein.

11. A stage in the method of manufacturing a maximum registering thermometer comprising a glass thermometer blank including a tube provided with a capillary bore and having a bulb sealed to one end of the tube with the bore thereof communicating with said bulb, the bore at the other end of the tube being open, the bulb having a specified volume, the bore having specified dimensions, which stage comprises forming a finished constriction in the capillary bore adjacent said bulb, removing substantially all air from the blank and then forcing mercury under pressure substantially greater than atmospheric pressure, through the finished constriction into said bulb to fill the same and also into said bore.

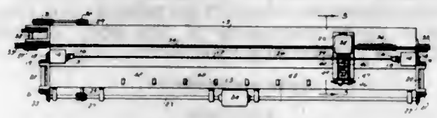
2,612,003

METHOD AND MEANS FOR MANUFACTURING TAPERED FISHING LEADERS

Walter S. Peterson, Sr., Denver, Colo.

Original application November 17, 1947, Serial No. 786,527. Divided and this application March 21, 1951, Serial No. 216,777
6 Claims. (Cl. 51—56)

1. Apparatus for the production of tapered fishing leaders comprising: axially aligned spindles adapted to support a strand of leader material under tension therebetween; means rotating said spindles in a common direction and at a common speed; a grinding head movable longitudinally of said strand; a grinding element mounted on said head alongside said strand; an anvil block shiftable on said head in parallelism



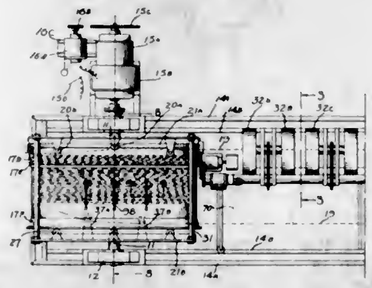
with the axis of said spindles toward and away from the grinding element to cooperate with the latter in the definition of a variable-width, strand-receiving throat, said anvil being resiliently held away from said grinding element and in position-limiting relation therewith; and means acting to shift said anvil toward said grinding element.

2,612,004

UNIDIRECTIONAL WIRE GRINDER OF THE DRAGGED WORKPIECE TYPE AND METHOD

Louis Illmer, Cortland, N. Y.

Application December 1, 1949, Serial No. 130,459
38 Claims. (Cl. 51—71)



1. A strand processing machine comprising a driven tractor reel including a rim adapted to have a group of strand coils spirally trained thereon, cutting tool means arranged to superficially treat a reel oncoming strand portion as a workpiece, separate stator means respectively located adjacent to each rim end, stator sustained roller means reversely assembled upon each such stator means, one of the roller means serving to laterally thrust the last laid rim coil axially of said reel and the other roller means being disposed to counteract the thrust imposed upon said rim by the aforesaid one roller means.

2,612,005

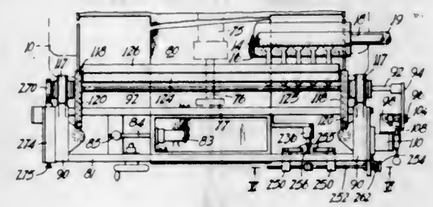
GLAZING AND POLISHING MACHINE

William C. Burt, Olean, N. Y., assignor to Clair Manufacturing Company, Inc., Olean, N. Y.

Application March 1, 1950, Serial No. 147,053
8 Claims. (Cl. 51—85)

1. In a polishing and glazing machine, in combination, a pair of rolls, a slide member movable towards and away from the rolls in a line at right angles to the longitudinal axes of the rolls, a platform carried by said slide member and movable thereon in directions parallel to said rolls,

a work holder carried by said platform by means of pivotal connections therewith having pivot axes parallel to said rolls, means for causing said slide member and said platform to independently oscillate, and drive means to cause the work holder to pivot relative to said platform, said work holder being constructed and arranged so as to support a plurality of work pieces to extend forwardly therefrom for passage between said rolls for polishing or glazing purposes, power sup-



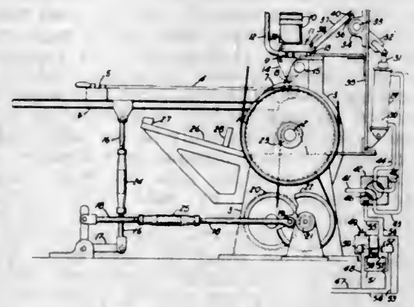
ply means coupled to said slide member and to said platform and to said work holder for oscillation thereof, and said drive means being controlled by a variably controllable power throttling device in turn controlled by movement of said work holder to vary the speed of pivoting of said holder at different phases of its movements about said pivotal connections thereof.

2,612,006

GLASS BEVELING MACHINE

Howard H. Heffley, Toledo, Ohio, assignor to The Toledo Plate & Window Glass Company, Toledo, Ohio, a corporation of Ohio

Application May 16, 1949, Serial No. 93,436
5 Claims. (Cl. 51—96)



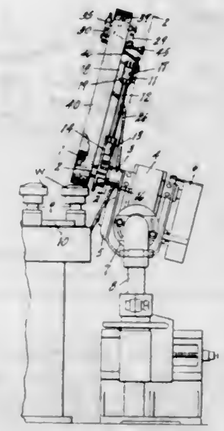
1. In a glass beveling machine, in combination, a grinding stone to which the to be beveled edge of the glass is presented, means for oscillating the glass around the edge being beveled to distribute the grinding across the face of the bevel being cut, a plurality of weighted shoes for forcing the edge of the glass against the grinding stone, means whereby the weighting of each shoe may be varied, a lifter for each shoe, a rockable shaft that has an arm operatively connected to each of the lifters, mechanical means for rocking said shafts, manually operable means for initiating a movement of the mechanical means to lower the shoes into engagement with the glass, and a timer started by said means for initiating a reverse movement of the mechanical means after a predetermined grinding interval.

2,612,007

ABRASIVE BELT ATTACHMENT FOR ABRASIVE WHEEL MACHINES

Ramsay M. Bell, Kalamazoo, Mich., assignor to Hammond Machinery Builders, Inc., Kalamazoo, Mich.

Application October 5, 1950, Serial No. 188,640
4 Claims. (Cl. 51—135)



1. A belt attachment for a wheel type polishing machine having a polishing wheel shaft projecting from a cylindrical housing comprising, an arm having a split clamp at its inner end attachable to said housing in angularly adjusted position therearound, a bracket secured to the outer end of said arm and having a laterally projecting portion, a supporting rod slidably received in said lateral portion and parallel to said arm, a pneumatic cylinder and piston associated with the inner end of said rod to urge said rod axially outwardly, a belt supporting fixture of outwardly U-shaped cross section secured to the outer end of said rod, a pair of slide rods transversely slidably mounted in the ends of the arms of said fixture, a pair of end frames carried by the ends of said slide rods and having shaft receiving yokes formed at their outer ends, a pulley shaft supported in said yokes and vertically adjustably mounted in one of said yokes, a lateral adjusting screw threadedly engaged with one of said frames and yieldably abuttingly engaged with said fixture for laterally adjusting said end frames on said fixture, an arm projecting laterally from said fixture and having a depending pin positioned alongside of said bracket, and an angular adjusting screw threadedly engaged with said bracket to bear against said pin to adjust said pin and arm angularly about the axis of said rod.

2,612,008

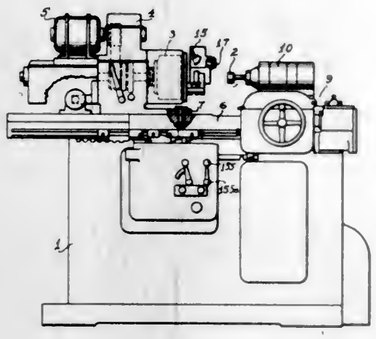
INTERNAL GRINDING MACHINE

Martin L. Kuniholm, Worcester, and John Klar, West Boylston, Mass., assignors to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts

Application April 10, 1951, Serial No. 220,296
19 Claims. (Cl. 51—165)

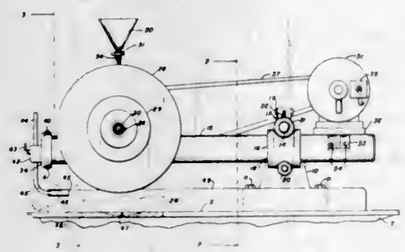
1. In an internal grinding machine and in combination, said machine having a grinding wheel, a wheel support and a work support, said supports being movable relative to each other to apply the wheel to grind an internal sur-

face of revolution of a work piece in said work support; infeed means relatively to move the wheel toward and against said workpiece surface, control means for said infeed means operating during the grinding cycle to slow the rate of infeed from a rapid rate to a predetermined rough grinding rate, said control means being



arranged to operate automatically when the power required to turn the grinding wheel reaches a predetermined rate, and means automatically to change the angle between said supports by an amount substantially sufficient to compensate for changes in deflections in the supports caused by a change in rate of infeed between the wheel and the work during grinding.

2,612,009
MACHINE FOR MITERING AND CUTTING FINGER GRIPS IN GLASS
John B. Tavano, Waterbury, Conn.
Application September 1, 1949, Serial No. 113,625
2 Claims. (Cl. 51—166)



1. In a machine for mitering a sheet of glass, the combination comprising a base, a supporting bracket mounted on said base and upstanding therefrom, a horizontal shaft adjustably mounted on the top of said bracket, a unitary sleeve depending from said shaft and comprising a pair of upper and lower split bearing bores arranged at right angles to each other, said upper bearing bore being swingably mounted on said shaft, an elongated beam twistably and slidably mounted in said lower bearing bore, means threadedly connected to said split bearing bores to adjust the frictional engagement of said bearing bores upon said shaft and beam, respectively, a rotatable glass abrading wheel supported on one end of said beam and spaced therefrom in parallel relationship thereto, a motor drivingly connected with said wheel, said motor and said wheel being mounted on opposite ends of said beam and said bracket for counterbalancing each other.

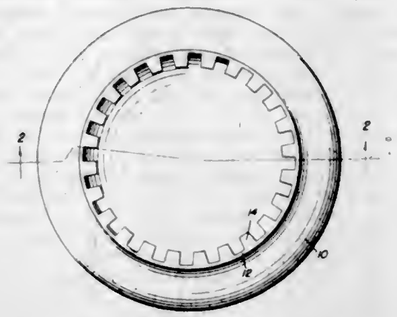
2,612,010
CYLINDER HONE
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application February 4, 1952, Serial No. 269,821
7 Claims. (Cl. 51—184.3)



1. In a cylinder hone the combination of a head member provided with a shank and with axially spaced cross heads, angularly spaced tool arm pivots extending between said cross heads and disposed in parallel relation to the axis of the head member, holder arms mounted on said pivots between and axially supported by said cross heads, holders pivotally mounted on the outer ends of said arms for limited axial tilting movement thereon, hone and wiper blades mounted on said holders in alternating relation to each other, an inwardly facing adjusting cone adjustably threaded on said body member shank, springable supporting pins on said arms adjustably supported by said cone, retracting springs for said arms connected at one end to the said pins and at the other to the said head member, a drive shaft for said head member comprising a substantially rigid outer chuck engaging spindle section, and an inner resiliently bendable tubular section of substantial length connected to said head member shank and to said outer spindle section and comprising a section of wire reinforced hose, and a closely coiled helical spring fittingly disposed within said inner section and extending from end to end thereof in wall supporting but non-torsional relation thereto.

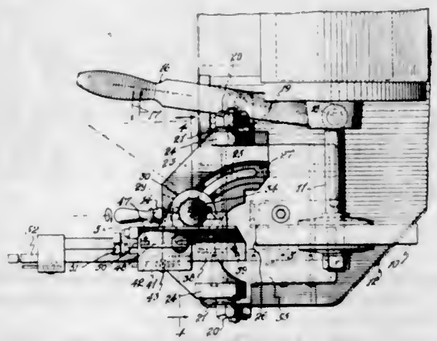
2,612,011
SANDING AND ABRADING PAD
Horace E. Longley, Elmira, N. Y., assignor of one-third to Arthur A. Linster, Elmira, N. Y.
Application May 8, 1950, Serial No. 160,800
5 Claims. (Cl. 51—196)

1. A sanding and abrading pad comprising a hollow, soft pliable body having an abrasive surface, said body being open at one end to receive a rotary head, and a plurality of circumferentially spaced radially disposed imperforate teeth at the open end of said body and constituting the sole means for holding the body against rota-



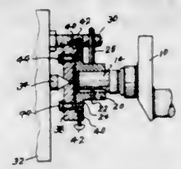
tion relative to a rotary head inserted in the body, said teeth being considerably thicker than the walls of said body.

2,612,012
DRILL POINT GRINDER
John Becker, Irvington, N. J.
Application October 13, 1950, Serial No. 189,919
11 Claims. (Cl. 51—219)



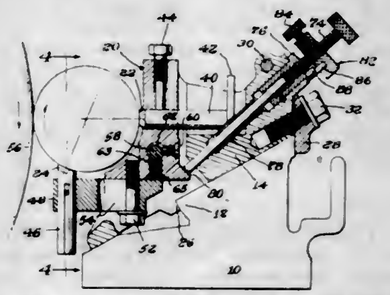
1. In a device for grinding the faces of a fluted drill on a grinding wheel having a circumferential face, the improvement which comprises drill-holding means including a vertically-movable plunger having a downwardly-tapering conical lower end adapted to engage drill flute edges, and a vertically-movable plunger-related member linked with said plunger and resting on the drill during the grinding operation whereby said plunger and vertically-movable member keep the drill in non-rotary position relative to the drill-holding means during the grinding operation, means for vertically-adjusting said drill-holding means, said vertically-adjusting means comprising a screw-actuated vertical slider rigidly united to said drill-holding means, and means for horizontally-adjusting the position of said plunger and plunger-related member, said latter horizontally-adjusting means comprising a guide member for receiving said plunger and plunger-related member in parallel vertical alignment and being slidably-movable along said drill-holding means to any desired fixed position.

2,612,013
APPARATUS FOR GRINDING CRANKSHAFTS
Alfred Loader, Millbury, and Michael S. Koylowski, Worcester, Mass.
Application September 13, 1951, Serial No. 246,486
3 Claims. (Cl. 51—237)



1. Apparatus for centering and grinding a crankshaft having a flange at one end thereof comprising a hollow flanged cylindrical member into which the end of the shaft fits, means to secure the shaft end in the member, a plate, a rim on the plate, the flange of the cylindrical member being received in the rimmed area of the plate, means adjustably but firmly securing the cylindrical member flange to the plate, means to adjust the cylindrical member flange radially, a second plate, a rim thereon, the shaft flange being received therein, releasable means to adjustably secure the shaft flange to the second plate, means to adjust the shaft flange radially on the second plate, and means to center the plates on the centers of a lathe.

2,612,014
BACK REST FOR GRINDING MACHINES
Maxwell I. Mathewson, Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I., a corporation of Rhode Island
Application August 27, 1949, Serial No. 112,804
9 Claims. (Cl. 51—238)



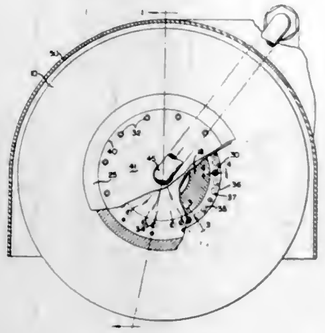
1. A backrest for supporting a rotating work piece in a grinding machine comprising a stand, a support movable on the stand along a fixed path toward and away from the work, a pair of shoes arranged for engaging contact with portions of the work spaced from one another about the periphery of the work piece, a locating device connecting the support with the stand including a locking element having alternative locking and release positions to lock the support in a predetermined adjustment position on the stand and to release the support to move relatively to the stand, means supporting the said shoes from the support constructed and arranged to permit adjustment of the positions of said shoes from the support substantially along lines which for said located position of the support pass radially through the work axis, and an adjustable element under the control of the operator interposed between the support and stand for advancing said support and shoes supported therefrom against the work.

2,612,015

MOUNTING STRUCTURE FOR GRINDING WHEELS

Frederich G. Krafft, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio

Application June 12, 1950, Serial No. 167,530
2 Claims. (Cl. 51—267)



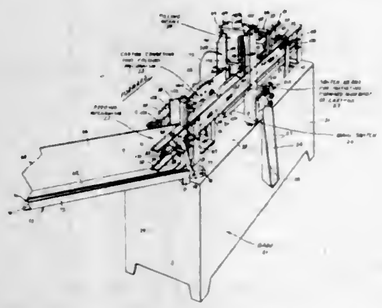
1. Mechanism for feeding liquid through the body of an abrasive wheel which comprises in combination, a grinding wheel having a central axial cavity, a hub within said axial cavity engaging and supporting said grinding wheel across said cavity, and a pair of clamping plates, said hub having a plurality of passageways therein arranged substantially parallel to the central axis of said hub and adjacent the outer peripheral face thereof, said passageways being closed at their outer ends by said clamping plate, radially disposed slots communicating with said passageways and extending to and opening against said inner peripheral face of the grinding wheel, said slots being closed at their outer faces by said inner peripheral face and connecting said passageways thereto whereby coolant may be conducted through said hub and delivered against the inner peripheral face of the grinding wheel for movement through the body of said wheel and onto the outer peripheral working surface thereof.

2,612,016

FOLDING AND FILLING MACHINE

Swan F. Anderson, Rockford, Ill., assignor, by mesne assignments, of one-half to Ralph F. Anderson, Rockford, Ill.

Application August 16, 1946, Serial No. 690,883
13 Claims. (Cl. 53—56)



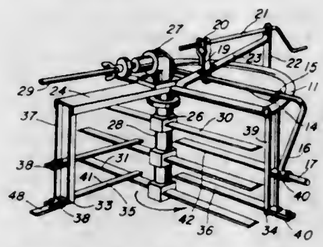
1. Apparatus for automatically setting up, filling, and closing the flaps of a carton supplied initially flat having four body walls and a flap hinged at each end of each wall, two opposed flaps at each end being formed to be interlocked with one another, comprising spaced frame members supported on a base and defining for said carton a path of movement having an inlet and an outlet, slide means reciprocably mounted on said frame means and having a number of pawls spaced therealong for moving a carton from one to the other stepwise between successive predetermined positions in said path upon successive reciprocations of the slide means, means for reciprocating said slide means, means for supporting a stack of said cartons in said initially flat condition and feeding them to one of said pawls so as to be fed one at a time into the inlet of said path, resilient means mounted adjacent said frame members for applying a restraining force to the leading edge of a forwardly moving flat carton operable simultaneously with means for dividing the flaps at one end thereof to effect the opening of said carton between said frame members in such a manner that one flap at each carton end is a leading flap and one at each end is a trailing flap and the two flaps at each end which are formed to be interlocked are positioned as side flaps, a member positioned proximate said frame members and movable by said slide means for closing the trailing flap at one end after the carton has been opened, a set of stationary members having surfaces engageable with the remaining flaps at said one end when said carton is moved therepast so that the leading flap is first closed and then the side flaps are closed and interlocked, a nozzle positioned above said path for supplying material therethrough to said carton when the latter is moved in proximity to it, another member movable by said slide means and positioned proximate said frame members for closing the trailing flap at the other end of the carton, and another set of stationary members having surfaces engageable with the remaining flaps when said carton is moved therepast so that the leading flap is first closed and then the side flaps are closed and interlocked.

2,612,017

STALK SHREDDER

James B. Jarmin, Dallas, Tex., assignor to Servis Equipment Company, Dallas, Tex., a corporation of Texas

Application July 13, 1950, Serial No. 173,495
10 Claims. (Cl. 55—62)



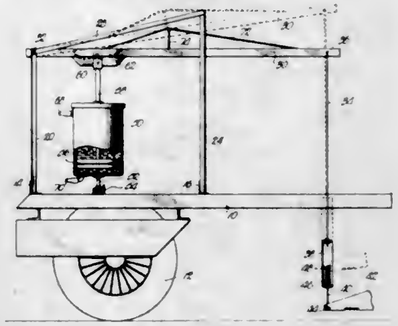
1. A stalk shredder for simultaneously cutting the standing stalks of adjacent row crops including, a frame, a pair of substantially horizontal blades fixed to the frame and disposed in spaced, angular relation, and a substantially horizontal driven blade rotatably mounted on said frame adjacent the fixed blades whereby its path of rotation and said blades are in superimposed relation, one of the fixed blades extending approximately in the direction of movement of the shredder and the other blade extending approximately transverse of such movement whereby said fixed blades coact with the driven blade upon stalks in adjacent rows.

2,612,018

HYDRAULIC LIFT FOR CUTTER BARS

John H. Lindau, Kansas City, Mo., and Robert P. Stewart and John D. Black, Wilmore, Kans.

Application May 23, 1949, Serial No. 94,764
1 Claim. (Cl. 56—208)



Elevating and lowering mechanism for combine cutter bars, said mechanism comprising a pair of spaced, horizontal cross bars adapted for mounting on a combine; a pair of spaced, upstanding frame pieces secured to each cross bar respectively and interconnected at the uppermost ends thereof; an elongated, substantially horizontal arm pivotally mounted at one end thereof to one pair of said frame pieces therebetween and at the uppermost ends of the latter for swinging movement on its transverse, horizontal axis, said arm being slidable between the other pair of frame pieces intermediate the ends of the arm, said other pair of frame pieces extending above said one pair of frame pieces; a pivotally mounted hydraulic cylinder underlying the arm; a piston in the cylinder having an elongated stem disposed for vertical reciprocation on its longitudinal axis and pivotally joined to the arm near the said one end of the latter; an elongated rod depending from said arm at the opposite end thereof, said rod being pivotally joined to the arm, and the lowermost end of the rod being adapted for pivotal connection with a cutter bar to be raised and lowered, said rod including an uppermost and a lowermost section; an elongated member having a pair of ends, one end of the member being secured to the uppermost section, the other end of the member being slidable on the lowermost section; an out-turned shoulder on said lowermost section; and a spring coiled about said lowermost section between the shoulder and said other end of the member.

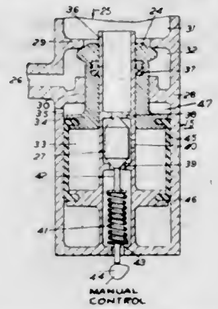
2,612,019

PROPELLENT INJECTION SYSTEM WITH SAFETY VALVE TO CUT OFF FLUID PRESSURE SUPPLY

Frank Bernard Halford, Edgware, Arthur Valentine Cleaver, London, and Ernest Baker Dove, East Barnet, England, assignors to The De Havilland Engine Company Limited, Stonegrove, Edgware, England, a company of Great Britain

Application December 27, 1949, Serial No. 135,285
In Great Britain January 3, 1949
5 Claims. (Cl. 60—35.5)

1. Rocket propulsion apparatus consisting of a high pressure part comprising at least one storage container for gaseous pressure medium and a pressure-reducing valve adapted to reduce the pressure of the gaseous medium issuing from said storage container, and a low pressure part consisting of the part beyond said pressure-reducing valve and comprising at least one reservoir for propellent liquid, a reaction chamber, a propulsion nozzle extending rearwardly from said reaction chamber, control means for admitting gaseous pressure medium to said reservoir to pressurize said reservoir and inject propellent liquid into the reaction chamber for gas-producing reaction therein, and a release valve situated between said pressure-reducing valve and the rest of the low pressure part of the apparatus, said release valve comprising a closure member, actuating means for said closure member, and a pressure-responsive element communicating with the low pressure part of the apparatus upstream of said closure member and controlling said actuating means, whereby said closure member is fully open when the pressure acting on said pressure-responsive element is below a predetermined value and is fully closed when said pressure is above said predetermined value.

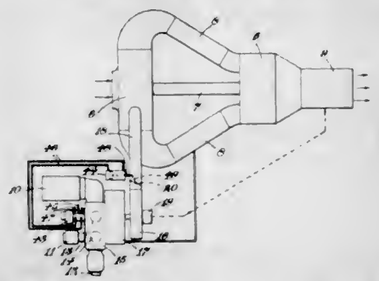


2,612,020

GAS TURBINE WITH FLUID-DRIVEN AUXILIARY DRIVE

Alan Arnold Griffith, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application October 29, 1946, Serial No. 706,449
In Great Britain October 4, 1945
5 Claims. (Cl. 60—39.18)



1. A gas-turbine power plant comprising in combination an air compressor, combustion-apparatus, connected to be supplied directly from said air compressor, a gas-turbine connected to be supplied from said combustion-apparatus coupled to drive said air compressor, power-plant accessory means including at least a fuel pump supplying said combustion apparatus, an auxiliary air-driven turbine for driving said power

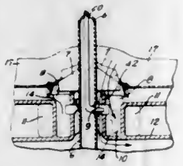
plant accessory means, a fluid connecting duct between said air compressor and said air-driven turbine for conveying compressed air to drive the latter, and a fluid exhaust duct between said air-driven turbine and a space where the pressure is substantially less than that existing in said combustion-apparatus.

2,612,021

CONTINUOUS COMBUSTION TYPE ROTATING COMBUSTION PRODUCTS GENERATOR AND TURBINE

Arthur Attwood Zuhn, Peoria County, Ill.

Application May 12, 1947, Serial No. 747,370
1 Claim. (Cl. 60—39.34)



A reaction motor comprising, in combination, a bearing, a mounting supporting said bearing, a fuel inlet tube, one or more fuel nozzles or orifices receiving fuel from said tube, an air compressor delivering a part of its air to a mixing chamber which also receives fuel from said nozzles, one or more pendulum type centrifugally motivated valves to control the flow of the air-fuel mixture into an annular shaped combustion chamber, an igniter for exploding the air-fuel mixture in said chamber, a number of exhaust tubes connected to said annular combustion chamber, a number of pendulum type centrifugally motivated auxiliary air valves which control the flow of a portion of the air from the stationary blades of the compressor to the exhaust tubes, and a nozzle at the outer end of each exhaust tube.

2,612,022

INTERNAL-COMBUSTION ENGINE WITH ROTARY CONSTANT VOLUME COMBUSTION CHAMBER

Joseph F. Keys, Wichita, Kans.

Application December 7, 1945, Serial No. 633,299
14 Claims. (Cl. 60—39.35)



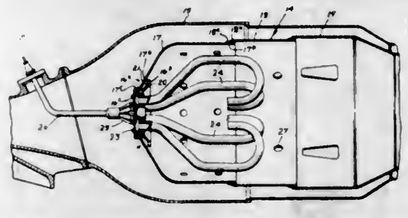
1. A power unit of the character described comprising a compressor and a gas propelled prime mover mounted upon a continuous shaft, a constant volume combustion device having a fuel supply interposed between the compressor and prime mover and pipe connections between the compressor and combustion device for the passage of high pressure air, and a plurality of pipe connections from the combustion device to the prime mover for the passage of power gas, the gas being at different pressures in the respective ones of said last pipe connections.

2,612,023

COOLING OF GAS TURBINE ENGINE FLAME TUBES

Donald Ewan Morrison, Nobel, Ontario, Canada, assignor to A. V. Roe Canada Limited, Peel, Ontario, Canada, a corporation

Application December 23, 1950, Serial No. 202,446
10 Claims. (Cl. 60—39.65)



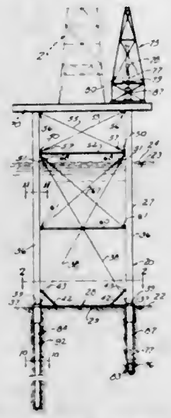
1. In a combustion chamber for a gas turbine engine, through which a stream of air is constrained to flow, a flame tube, a casing surrounding the flame tube in spaced relationship thereto and providing a space between the flame tube and the casing, the said flame tube having a wall including inner and outer hollow coaxial members disposed in longitudinal serial relationship, the downstream terminal portion of the inner member and the upstream terminal portion of the outer member being in spaced overlapping relationship to provide an annular gap therebetween, and a closure at the upstream end of the gap, a plurality of holes being formed in the upstream terminal portion of the outer member opposite the downstream terminal portion of the inner member to provide admission inlets for air from the space between the casing and the flame tube into the flame tube through the gap.

2,612,024

SUBMARINE FOUNDATION AND METHOD OF ERECTING

William A. Hunsucker, Los Angeles, Calif.

Application December 18, 1948, Serial No. 66,026
17 Claims. (Cl. 61—46)



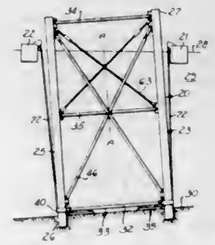
10. A submarine structure extending from the surface of the earth beneath a body of water to a position above the surface of the body of water, said structure forming an open, multisided, skeletonic framework exposed to currents and wave motion in said body of water, said structure comprising: a template engaging said surface of the earth beneath said body of water and having a substantially vertical guide; a substantially vertical column having a lower end slidably received by said guide and extending downwardly therethrough; stop means for limiting the downward movement of said column through said guide and including means for transmitting to said template the weight of said column and vertical loads imposed thereon; a brace; means for connecting one end of said brace to said column at a position above said guide; and means for operatively connecting the other end of said brace to said template at a position spaced laterally from said guide, said brace holding said column in a substantially vertical position.

2,612,025

PREFABRICATED MARINE STRUCTURE

William A. Hunsucker, Los Angeles, Calif.

Application July 7, 1949, Serial No. 103,341
24 Claims. (Cl. 61—46)



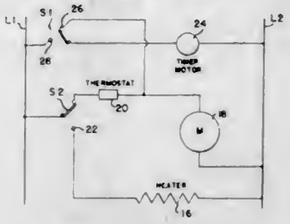
1. In a prefabricated submarine structure adapted to be lowered to rest on the earth's surface beneath a body of water and which surface may slope or vary in hardness in the zone in which said foundation structure is to be placed, said foundation structure including: a multisided framework composed of a plurality of side structures meeting at corners of the framework, each side structure being a quadrilateral formed by a base member, a pair of column members extending in an upward direction from said base member and a strut member, each side structure including means for pivotally connecting the ends of said base member respectively to said column members at a lower level and for pivotally connecting the ends of said strut member respectively to said column members at an upper level to form a deformable quadrilateral of a shape determined by the relative lengths of its diagonals, said quadrilateral tending to deform upon change of slope of said base member when lowered to bear against the earth in said zone due to such slope or variation in hardness of that portion of said zone on which said base member bears; a pair of diagonal bracing members extending substantially along the diagonals of each quadrilateral side structure and tending to resist said deformation thereof; and means for adjusting the relative lengths of said diagonal bracing members of each quadrilateral side to adjust said framework until its central axis is vertical and to rigidify said framework in such adjusted position, said column members providing earth-penetrating portions extending downwardly beneath said base member to stabilize the lower end of said framework against lateral shifting, said portions penetrating the earth during lowering of said framework and before said base member engages the earth in said zone.

2,612,026

REFRIGERATOR DEFROSTING SYSTEM

William L. Hansen and Harry G. Manson, Princeton, Ind., assignors to Hansen Manufacturing Company, Princeton, Ind., a corporation of Indiana

Application November 10, 1949, Serial No. 126,634
6 Claims. (Cl. 62—4)



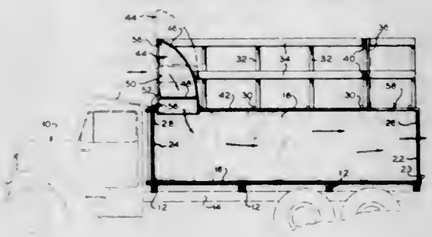
1. In a refrigeration system; a refrigeration unit having a drive motor, a defrosting heater, a switch having a first position for establishing a circuit through said drive motor and a second position for establishing a circuit through said heater, a thermostat in the circuit between said switch and motor responsive to a predetermined temperature in the zone being refrigerated to complete the circuit from the switch to the motor, a timer in parallel with said motor so as to be energized simultaneously therewith and having a cam operable after a predetermined period of energization of said timer to move said switch from its first to its second position for a predetermined timed period, and circuit control mechanism actuated by said timer operable automatically to maintain said timer energized during said timed period and to de-energize said timer at the expiration of said timed period.

2,612,027

DOUBLE-DECKED STOCK TRUCK COOLING AND VENTILATING SYSTEM

Herman L. McGan, Uniontown, Ky., assignor of one-half to Ezra C. Walker, Henderson, Ky.

Application June 5, 1950, Serial No. 166,225
4 Claims. (Cl. 62—13)



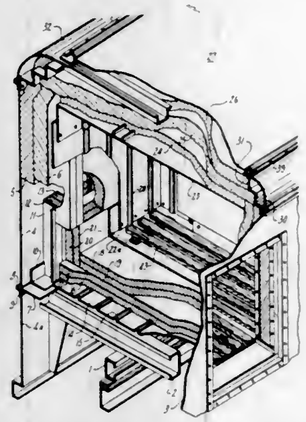
4. A multiple deck structure for use in transportation comprising a lower load carrying floor, an upper load carrying floor mounted in spaced relation above the lower load carrying floor, retaining means by which a load may be retained on said upper load carrying floor, side, front, and rear walls connecting said upper and lower load carrying floors and forming an enclosure with an opening in its forward portion for the admission of air and with an outlet from its rear portion for the egress of air, a cooling unit mounted near the forward end of said enclosure exteriorly of the same in a manner that the interior of the enclosure is unobstructed, said cooling unit having communication with said opening and having a deflector and a refrigerant container, said

deflector serving to direct air from the exterior over said refrigerant container and into said enclosure.

2,612,028
INSULATED REFRIGERATOR VEHICLE BODY

Paul R. Schnabel, Oakmont, Pa., assignor to The Schnabel Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application November 4, 1948, Serial No. 58,289
3 Claims. (Cl. 62—15)

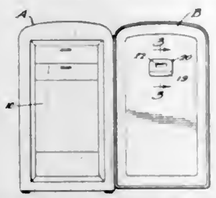


3. In an insulated refrigerator vehicle body, a roof structure comprising vertical layers of sheet insulation and horizontal layers of sheet insulation arranged to form a step joint, metal sheathing enveloping the edges of the horizontal and vertical insulating layers, and a rounded metal corner piece extending from the outer roof sheathing to the side wall of the body having insulation disposed therein, said insulation at the corner being fortified by asbestos and foil.

2,612,029
REFRIGERATOR DOOR BUTTER COMPARTMENT

Milford J. Schrader and Donald E. Cooke, Greenville, Mich., assignors to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan

Application December 1, 1950, Serial No. 198,531
12 Claims. (Cl. 62—89)

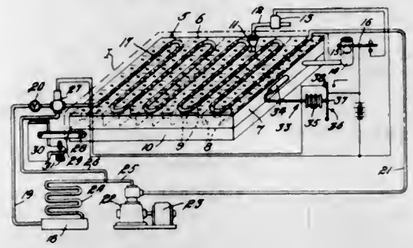


1. In a refrigerator having a refrigerated food compartment and an insulated door providing access to the compartment, said door having a recess therein open from the inner side of the door, a shell within said recess providing a compartment open at its inner side, said shell having side wall areas enclosed by an uninsulated area in communication with the outer side of the door, and a closure equipped with a tray slideably mounted in said shell and having a handle pocket portion extending centrally within said shell.

2,612,030
REFRIGERATION

Clyde E. Ploeger, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application May 13, 1950, Serial No. 161,826
1 Claim. (Cl. 62—106)

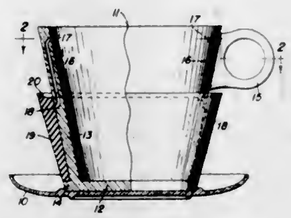


In an ice making machine, a mold having a top and depending side walls with an open bottom, cross partitions in the mold forming a plurality of cells, a platen for opening and closing the bottom of the mold, a coil overlying the top of the mold, a heat exchange system connected to said coil to deliver either a cooling or heating medium to the coil to freeze liquid in the mold and release ice therefrom, and a vent opening in the top wall of the mold overlying each cell.

2,612,031
DRIPPROOF CUP

Floyd M. Cockriel, Edgerton, Mo.

Application July 3, 1950, Serial No. 171,979
5 Claims. (Cl. 65—13)



1. A drip-proof cup including a side wall provided with a generally vertical overflow passage having an inlet end opening into the interior of the cup near and below the top of the cup, the overflow passage having an outlet opening opening through the outer surface of the side wall near the vertical center of the cup, and an annular absorbent band mounted upon and surrounding the side wall of the cup and extending from a point near the bottom of the cup to a point near and above the discharge opening and covering the discharge opening so as to absorb liquid flowing from the overflow passage.

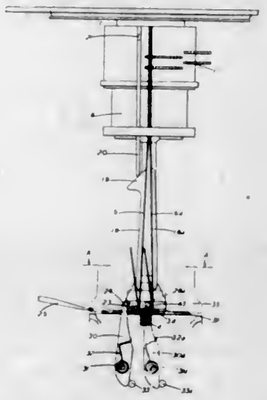
2,612,032
KNITTING MACHINE FOR WRAP STRIPING

Frederick Edward Deans and Carlyle Herbert Wainwright, Leicester, England, assignors to The Bentley Engineering Company Limited, Leicester, England

Application September 4, 1946, Serial No. 694,731
In Great Britain September 12, 1945
4 Claims. (Cl. 66—135)

1. In a knitting machine having a needle bed and relatively displaceable needle-operating means and needles in said bed, wrap striping

mechanism for patterning by feeding a plurality of wrap threads in a course, comprising a separate wrap finger for each thread, means for traversing said fingers one after another past one and the same group of needles, means for positioning at a thread-receiving height in each traverse, only the needle or needles of said group

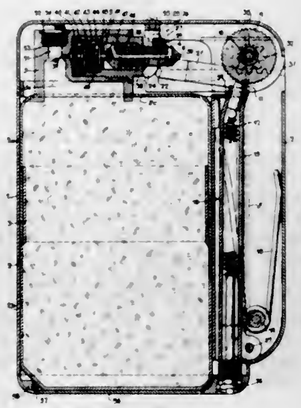


required to receive the wrap thread fed at that traverse, and a separator, for separating the old loops from the wrap loops on the needles, located at the plain side of the needles below the path of movement of the fingers and extending along the needle line throughout the zone at which said fingers operate and having a free end at the end of said zone to permit the wrap loops to slip off it.

2,612,033
GAS FUELED LIGHTER MECHANISM

Alexander L. Flamm, Bridgeport, Conn., assignor to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey

Application August 9, 1949, Serial No. 109,389
7 Claims. (Cl. 67—7.1)

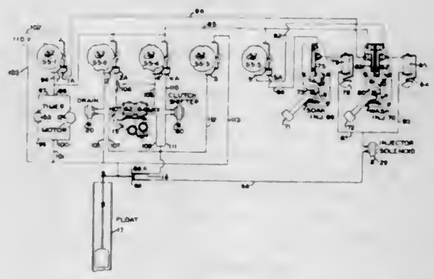


1. A gas fueled lighter of the character described having an outer supporting casing, a gaseous fuel container detachably received within said casing, said fuel container having an upper wall carrying a fuel valve housing, a burner carrying valve reciprocably mounted in said housing to move between open and closed positions in a substantially horizontal path disposed above and running transversely of the fuel container proper, a sparking wheel carried by said casing adjacent said burner valve, a fingerpiece mounted on said casing to move between idle and active positions and drivingly connected to said sparking wheel, whereby said sparking wheel is rotated by said finger piece upon the movement thereof from idle to active positions, and mechanism interconnecting said fingerpiece with said valve to move said valve to open position as said fingerpiece moves from idle to active position.

2,612,034
AUTOMATIC WASHING MACHINE WITH DETERGENT INJECTOR

Arthur R. Constantine, South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware

Application June 9, 1948, Serial No. 31,893
7 Claims. (Cl. 68—12)



1. In an automatic washing machine, a liquid container, an element responsive to a predetermined maximum liquid level in said container, a detergent injector mechanism having a control element therefor, a sequential controller providing mechanism for an automatic sequential cycle of operation for soaking and washing and including provision for actuation of said control element during said soaking and washing cycles, means providing actuation of said control element by said sequential controller for a period of time in said cycle so arranged that said control element allows actuation of said detergent injector mechanism, a manually actuable timer means for preselecting the length of subsequent operation of said injector mechanism, connections between (1) said control element (2) said timer (3) said liquid level responsive element providing for actuation of said injector mechanism for said preselected period of time when all three of the aforesaid elements are actuated.

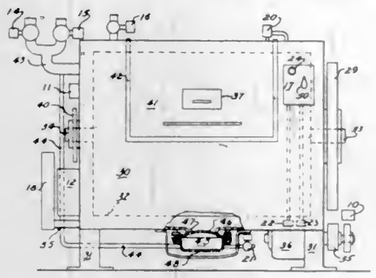
2,612,035
CONTROL STATION FOR OPERATING WASHERS WITH A SINGLE BATH

Benjamin Alvin Buss, East Moline, Ill., and Hercheal Wood Miller, Davenport, Iowa, assignors to American Machine and Metals, Inc., East Moline, Ill., a corporation of Delaware

Application July 3, 1947, Serial No. 758,804
3 Claims. (Cl. 68—12)

1. In a laundry washing machine of the character described having power operative components including a motor driven tumbling cylinder and a dump valve for draining the machine, the combination of, means for controlling the motor and the dump valve for each single operation of the machine so as to continue operation of the motor after the dump valve is opened whereby

the laundry continues to tumble and lose soil and liquid comprising, manually adjustable means having an "off" position wherein all operative components of the machine and the control means are disconnected from power and an active timing range including a "zero" position wherein all operative components except the motor are disconnected from power, timing means set by said manually adjustable means in said timing range



always for operation back to said "zero" position from selectable other positions, first switch means operated by said manually adjustable means for energizing the motor when said manually adjustable means is moved away from the "off" position to any other position, and second switch means automatically operated by said timing means for simultaneously disabling said timing means and opening the dump valve when said timing means returns to the "zero" position.

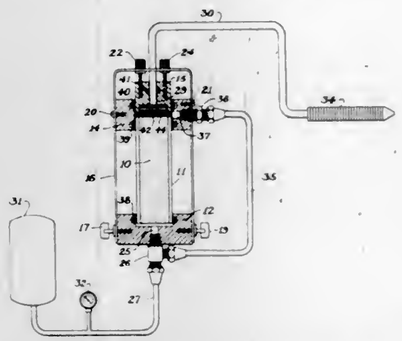
2,612,036

APPARATUS FOR MEASURING INTERSTITIAL WATER CONTENT OF WELL CORES

Frank A. Angona, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application November 1, 1947, Serial No. 783,508

4 Claims. (Cl. 73—38)



1. In an apparatus for determining interstitial water content of a well core sample by the restored state method, said apparatus having a chamber for holding said well core sample, means for supporting a semi-permeable membrane in contact with said well core sample, means for imposing upon said well core sample a pressure of a non-aqueous fluid, and means providing a conduit leading to said semi-permeable membrane for passage of fluid, a semi-permeable membrane comprising two unitary disks of unglazed porcelain and a layer of powdered talc positioned between and in contact with said disks of unglazed porcelain.

2,612,037

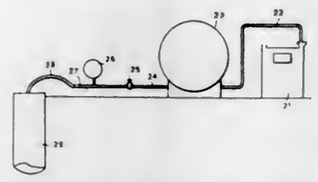
PROCESS FOR TESTING FLUID DUCTS

Johannes M. van Rooy, The Hague, Netherlands, assignor of one-fourth to Hendrik Boer and one-fourth to Alida Johanna Oosterveen, both of The Hague, Netherlands

Application September 4, 1947, Serial No. 772,115

In the Netherlands September 23, 1946

6 Claims. (Cl. 73—40.5)



1. A process for leakage detection in a fluid-filled duct comprising introducing a gaseous testing medium into said duct from a source of supply, said gaseous testing medium differing in specific weight from the specific weight of the gaseous medium normally within the duct, and continuously measuring the pressure of said mediums until such measurement indicates a sudden change of pressure produced by the differential between said specific weights at the point of leakage.

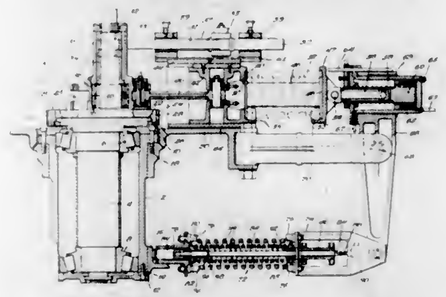
2,612,038

SPRING TESTING MACHINE

Raymond C. Pierce, Chicago, Ill.

Application August 21, 1947, Serial No. 769,836

17 Claims. (Cl. 73—88)



1. A spring tester comprising a frame, opposed abutments carried by said frame for supporting a spring therebetween, means for reciprocating one of said abutments, a hydraulic piston and cylinder device connected to the other abutment, valve means for said cylinder, and means for maintaining a predetermined maximum compressive load on said spring comprising a spring control unit having one end fixed and its other end reacting on the end of said device, and means responsive on compression of said unit for automatically operating said valve until the compression of said unit is relieved.

2,612,039

STRESS MEASUREMENT TECHNIQUE

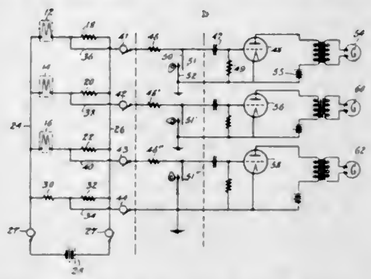
Edwin F. Shelley, New York, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application April 10, 1946, Serial No. 660,906

12 Claims. (Cl. 73—88.5)

1. In stress measurement wherein an electrical resistor gage changes its resistance in response to strain of a body to which the gage is secured,

a circuit including said gage, means continuously operable to plot changes in gage resistance and hence, body strain, against time, and means intermittently operable for brief intervals and at a



frequency differing from the variations in body strain to alter the gage circuit to a finite resistance value to impose upon said plot a plurality of datum points from which the plotted strain points may be evaluated as to strain magnitude.

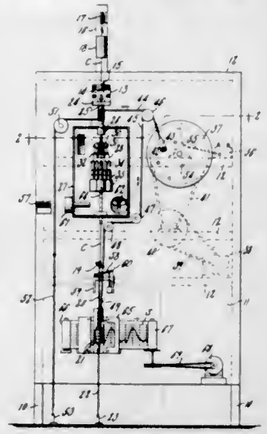
2,612,040

APPARATUS FOR TESTING CORD FATIGUE

Thomas J. Rhodes, Ramsey, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application December 11, 1947, Serial No. 791,050

6 Claims. (Cl. 73—91)



1. A cord fatigue testing machine comprising, cord supporting means, mechanism for periodically subjecting the cord to a dynamic longitudinal tension, a plurality of longitudinally tensioned strands disposed about the cord, means for twisting these strands about the cord into and out of tight embracing relation therewith to periodically compress the cord laterally and axially, and power means for actuating said mechanism and said twisting means in rapidly reoccurring cycles.

2,612,041

COMBINED TENSION-COMPRESSION TESTING APPARATUS

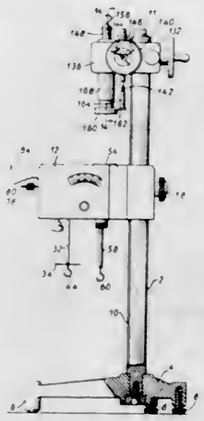
William J. Goodfriend, Worcester, Pa., assignor to Hunter Spring Company, Lansdale, Pa., a corporation of Pennsylvania

Application June 2, 1947, Serial No. 751,697

4 Claims. (Cl. 73—93)

1. A force measuring device adapted for testing springs comprising a standard, a support

member, said support member being adjustably secured to the standard selectively at various heights, a scale beam having means thereon to indicate the position of said beam, pivotally secured to said support member, a vertical bar pivotally secured to one end of said beam and having means thereon for engaging a spring, means secured to the other end of said beam to counter-balance the force exerted on the scale beam through said vertical bar, a second support



member adjustably and removably secured to said standard at various positions thereon, a vertical force rod secured to said second support member and co-axial with said vertical bar, said force rod having means thereon for engaging a spring, means on said second support member to move the force rod relative to said second support member, and means in operative engagement with said force rod to measure the displacement thereof.

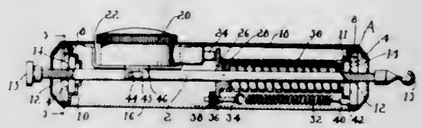
2,612,042

FORCE MEASURING DEVICE

Philip C. Clarke, Line Lexington, Pa., assignor to Hunter Spring Company, Lansdale, Pa., a corporation of Pennsylvania

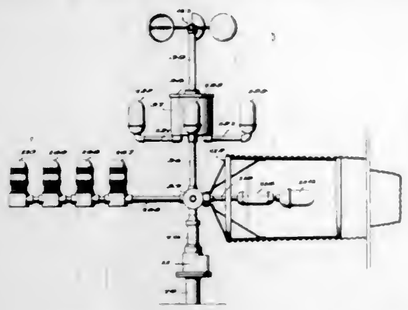
Application February 19, 1947, Serial No. 729,459

4 Claims. (Cl. 73—141)



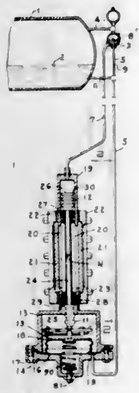
1. A force measuring device comprising a housing, a member slidable in said housing, a main coil spring connected at one end to said housing and at the other end to said slidable member and having its axis in a common plane with the axis of said slidable member, a preloading coil spring connected at one end to said housing and at the other end to said slidable member, said preloading spring being selected with a gradient error that will compensate for the gradient error of the main spring and having its axis in a common plane with the axis of said slidable member, means on said slidable member for receiving a force to be measured and means attached to said housing and in operative engagement with said slidable member for indicating the force applied.

2,612,043
WIND DIRECTION AND VELOCITY SIGNALING SYSTEM
Allen E. Chisholm and James V. Hamar, Portland, Oreg., said Hamar assignor to said Chisholm
Application November 5, 1948, Serial No. 58,466
5 Claims. (Cl. 73—189)



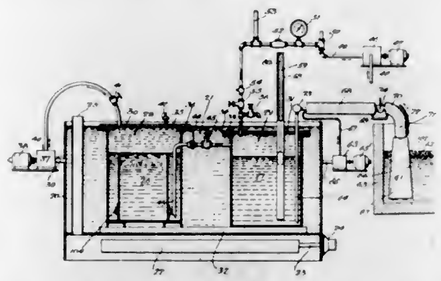
1. In apparatus for indicating the direction and velocity of air currents over an airport, a rotatable member, a horizontal arm carried by said member, a plurality of signal lamps on said arm, a wind sock frame carried by said member arranged in a direction opposite said arm, a circuit containing a switch for each of said lamps, a governor driven by air currents passing over the airport, magnetic means moved by said governor to selectively actuate said switches for controlling the illumination of said lamps in accordance with the velocity of the wind, and means in said circuit for indicating the failure of a circuit to said lamps.

2,612,044
REMOTE WATER LEVEL INDICATOR
Le Roy S. De Mart, Detroit, Mich., assignor to Diamond Power Specialty Corporation, Detroit, Mich., a corporation of Michigan
Application July 16, 1948, Serial No. 39,075
19 Claims. (Cl. 73—299)



4. A remote liquid level indicator for a body of liquid having a variable level comprising a substantially straight vertically arranged transparent conduit, expansible and contractible means communicating with the opposite ends of said conduit, two immiscible liquids filling the space enclosed by the said expansible and contractible means and the conduit, and inherently resilient expansible and contractible means operatively connected with said first mentioned expansible and contractible means so that said first mentioned expansible and contractible means are actuated to shift the junction line between the two liquids an amount proportional to the movement of the inherently resilient expansible and contractible means, said inherently resilient expansible and contractible means being subjected on the one side to the pressure of the head of the liquid body having a variable level and subjected on the other side of the head of a body of liquid having a substantially constant level and subjected to the same pressure as the pressure on the body of liquid the level of which is being indicated whereby as the level of the one liquid body varies the inherently resilient expansible and contractible means responds to the difference in pressure between the constant and variable heads of the liquid to actuate said first mentioned expansible and contractible means and the indicating liquids in said conduit to vary the position of the junction line between the two immiscible liquids in proportion to the variation in said difference between the constant and variable pressure heads.

2,612,045
PHOSPHORIZING APPARATUS FLOW GAUGE
James R. Wyatt, Havertown, Pa.; Ella M. Wyatt executrix of said James R. Wyatt, deceased
Original application May 16, 1947, Serial No. 748,637. Divided and this application March 7, 1949, Serial No. 80,082
1 Claim. (Cl. 73—322)

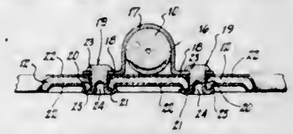


A gage device for a closed vessel containing molten phosphorus, and a protecting liquid on top of the molten phosphorus comprising a hollow glass column extending vertically downward through the top wall of the vessel and the protecting liquid and terminating in the molten phosphorus, said column being open at the bottom beneath the level of the molten phosphorus, and the upper end thereof extending above the top of the vessel and having its upper end closed to form a gage glass above the top on the vessel, a float in the column having a specific gravity less than that of the molten phosphorus and greater than that of the protecting liquid and an indicator stem extending upwardly from the float to a position visible inside the gauge glass.

2,612,046
THERMOMETER
John J. Crawley, Scarsdale, N. Y., assignor to Wm. H. Wise & Co., Inc., New York, N. Y., a corporation of New York
Application November 9, 1949, Serial No. 126,358
1 Claim. (Cl. 73—352)

A thermometer comprising, in combination, a thermometer tube, a vitreous enamel covered back

plate to carry said tube, said plate having front and rear surfaces and a pair of apertures one at either side of said tube, said apertures being formed by piercing said plate from the front to the rear surface thereof providing integral annular portions of material displaced from said plate, said annular portions surrounding the apertures and extending outwardly from the rear surface of said back plate, a clasp of thinner material than the back plate for securing said tube to said back plate comprising a curved central extent engaging said tube and plate, said



clasp having apertured end portions one at either end thereof seated on the front surface of the back plate, the apertures therein registering with respective ones of said apertures in said back plate, and a pair of rivets each having a solid head seated on a respective one of said clasp end portions, passing through said apertures and having hollow ends at the rear of said back plate spread and seated on respective annular back plate portions, the spread rivet ends being turned over and downwardly on said integral annular back plate portions.

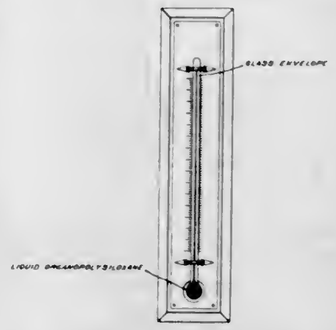
2,612,047
PROBE DEVICE FOR FLUID CONDITION MEASURING APPARATUS
Henry O. Nilsson, Centerport, N. Y., and Leonard R. Phillips, Teaneck, N. J., assignors to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application February 10, 1949, Serial No. 75,666
2 Claims. (Cl. 73—362)



1. In measuring apparatus of the character described, a probe device including an electrical resistance wire to be exposed to a fluid for temperature change by the latter and to constitute an arm of a Wheatstone bridge for indicating change in the electrical resistance of said wire due to temperature change thereof, said probe device comprising a base, a head axially alined with and spaced from said base, a plurality of spaced apart rods connecting said head and said base, said rods being disposed helically with respect to said head and base, said wire having an initial helical winding, a helical winding of said initial helical winding, and a helical winding of said second mentioned helical winding upon said rods, all of said windings being substantially completely exposed to fluid flow about said device.

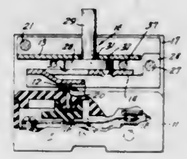
2,612,048
THERMOMETER
Paul D. Zemany, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 13, 1950, Serial No. 184,577
3 Claims. (Cl. 73—371)

1. A thermometer comprising a sealed transparent capillary tube and a connecting bulbous reservoir, and a temperature indicating fluid in said capillary tube and reservoir consisting of a liquid organopolysiloxane having a viscosity of the order from about 3 to 100 centistokes and



having a ratio of from 2.0 to 3.0 organic groups per silicon atom, the aforesaid organic groups being attached to the silicon atoms by carbon-silicon linkages and being selected from a class consisting of methyl and phenyl radicals.

2,612,049
UNIVERSAL MOTION ACTUATOR
Alfred Richard Koch, Jr., Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 15, 1949, Serial No. 121,581
12 Claims. (Cl. 74—1)

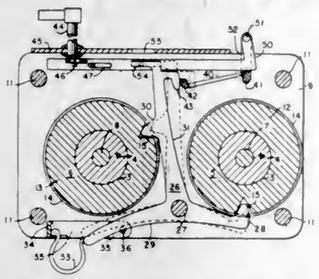


1. In a device of the character described, the combination of an operator, means for mounting said operator permitting rotative, tilting and axial movement thereof, a member shaped to engage an actuator of a device and movable between preselected positions to actuate the device, and lever means carried by said operator directly engaging said member for converting any of said above described movements of the operator into actuating movement of said member.

2,612,050
SHAFT POSITION CONTROL MECHANISM
Emerick Toth, Takoma Park, Md., and George H. Burbage, Washington, D. C.
Application March 27, 1947, Serial No. 737,684
10 Claims. (Cl. 74—10.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

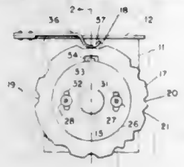
1. In a shaft position control device, a pair of juxtaposed rotatable drums each having a plurality of notches formed in the periphery thereof, means mechanically connecting said drums whereby rotation of one drum causes the other to rotate at a speed different from that of the first drum, and pawl means positioned

in intimate relation with the notches of each of said drums and operative upon its simul-



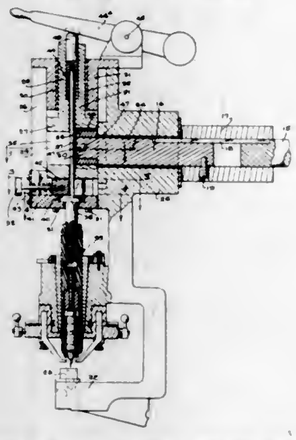
taneous engagement with a notch in each of said drums to arrest the rotation of said drums.

2,612,051
TUNING MECHANISM
David C. Felt, Teaneck, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application September 27, 1951, Serial No. 248,526
5 Claims. (Cl. 74—10.41)



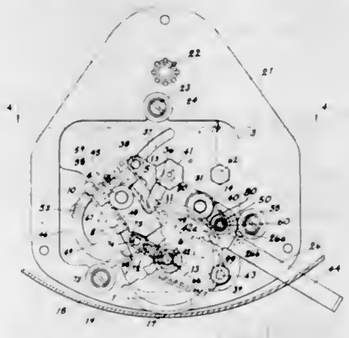
1. A tuning mechanism for radio and television comprising a rotatable shaft, a disc positioned concentrically on said shaft and having detents on the periphery thereof, means providing a limited lost rotary motion between said shaft and said disc, a detent arm positioned to engage said detents when said disc is rotated, and means providing a limited lost rotary motion between said detent arm and at least one of said detents.

2,612,052
MECHANICAL MOVEMENT
Charles B. Gray, Springfield, Pa.
Application November 1, 1950, Serial No. 193,362
4 Claims. (Cl. 74—50)



1. In combination, a rigid frame structure, an operating shaft rotatably journalled in said frame structure, and having an eccentric at one end thereof, a cross-head block fitted upon said eccentric, a vertically reciprocable cross-head disposed in front of said operating shaft and having a portion intermediate its ends operatively associated with said block and eccentric so that rotary motion of said operating shaft is converted into reciprocating motion of said cross-head, a relatively fixed guide for said cross-head, means for effecting axial withdrawal of said operating shaft rearwardly from said cross-head whereby to free said eccentric from said block, means providing for lateral removal of said block from said cross-head and its fixed guide and means providing for axial withdrawal of said operating shaft and its eccentric forwardly through said cross-head while the latter remains fitted in its guide.

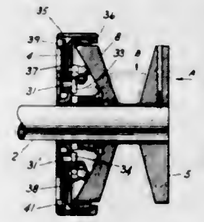
2,612,053
PLURAL-SPEED FRICTION DRIVE MECHANISM
Sidney E. Capell, Elyria, Ohio, assignor to The General Industries Company, Elyria, Ohio, a corporation of Ohio
Application December 6, 1949, Serial No. 131,330
11 Claims. (Cl. 74—199)



1. A selective three-speed frictional drive transmission mechanism adapted for application to a cylindrically annular flange portion of a phonograph turntable to frictionally drive the same comprising in combination with an electric motor, an upwardly directed drive shaft thereof, a mounting plate from which said motor is suspended, said shaft having an end portion projected upwardly above said plate, said end portion having three pulley portions comprising an intermediate pulley portion of greater diameter than a pulley portion disposed thereabove, and a third pulley portion disposed therebelow, a manually operable adjustment element which is selectively movable to at least three successively disposed adjustment positions being carried by said mounting plate, a supplemental pulley journalled to rotate on an axis parallel to that of said shaft on a movable portion of said adjustment element and having a relatively lower pulley portion disposed at the level of, and laterally interspaced from, said third pulley portion of said shaft, and having a relatively upper pulley portion disposed above its said lower portion, a drive belt encompassing said shaft third portion and said lower pulley portion of said supplemental pulley adapted to transmit rotary motion from said shaft to said supplemental pulley, an idler wheel journalled for rotation on an axis parallel to that of said shaft and adapted to be adjustably moved upwardly and downwardly, and being laterally shiftable in

all lateral directions, spring means resiliently constraining said wheel in a direction toward said shaft, and means deriving adjustment movement from said adjustment element when moving from one extreme position to the opposite extreme position to be adapted to sequentially move said wheel laterally away from peripheral engagement with a preengaged one of the upper pair of pulley portions of said shaft then to move said wheel to the level of the other pulley portion of said pair, and said adjustment element when disposed at an intermediate adjustment position adapted to thrust the periphery of the upper pulley portion of said supplemental pulley against the periphery of said wheel to so move said wheel laterally against the power of said spring as to disengage said wheel periphery from said lower pulley portion of the aforesaid pair and to frictionally drive said wheel by power communicated to the supplemental pulley by said belt.

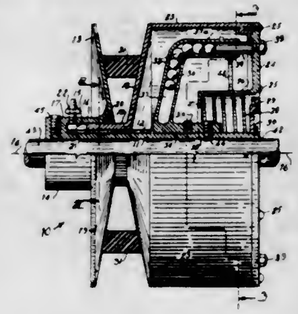
2,612,054
V GROOVE PULLEY CENTRIFUGAL CLUTCH
Marion H. Davis, Hagerstown, Ind.
Application June 15, 1949, Serial No. 99,185
14 Claims. (Cl. 74—230.17)



9. A centrifugal clutch comprising: a pair of relatively axially movable pulley sections providing a V-groove therebetween for reception of a V-belt; an abutment plate; a plurality of centrifugal wedge members between the abutment plate and one of the pulley sections for relatively shifting said pulley sections; spreader members positioned between adjacent ends of the wedge members in collapsed position of the wedge members, said spreader members having a normal inoperative position, and being movable to an operative position wherein they spread the wedge members to shift said pulley sections to belt engaging position; a rotatable plate mounted on the clutch and means connected between the rotatable plate and the spreader members operated upon rotation of the plate in one direction to move said spreader members to operative position.

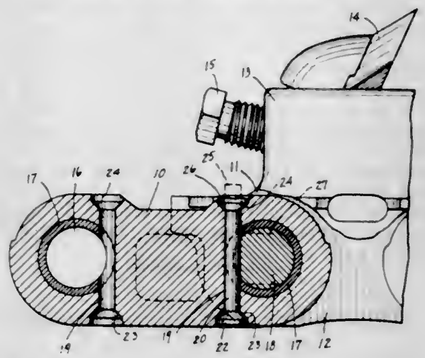
2,612,055
VARIABLE PITCH PULLEY
Charles Hugh Miner, Denver, Colo.
Application July 26, 1950, Serial No. 175,931
4 Claims. (Cl. 74—230.17)

4. A variable ratio pulley, comprising, a pair of axially aligned members having juxtaposed faces of a shape to engage the sides of a V-belt therebetween, the width of the faces in a radial direction being substantially in excess of the thickness of the belt, means connecting the members together in a manner such that they rotate in unison, but are relatively movable axially, resilient means urging the members toward each other, means rotatable with the pulley responsive to centrifugal force for applying an opposing force to a portion of the urge of the resilient means, the last named means comprising guide means extending outwardly from the axis of rotation and joined at the outer end thereof to second guide means extending in a direction angularly related to the direction of the first guide means, a mass of fixed weight movable along both guide means forming a chain through which force may be exerted, the outer end of the chain



being adapted to apply said opposing force, the angular relationship of the two guide means being such that the opposing force is substantially equal to the centrifugal force exerted by only that portion of the mass disposed along the first named guide means when the member is rotating with portions of the mass disposed along both guide means.

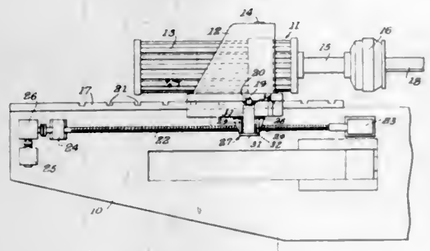
2,612,056
CUTTER CHAIN STRUCTURE
Robert F. Prox, Jr., West Terre Haute, and Benjamin F. Woods, Terre Haute, Ind., assignors to Frank Prox Company, Inc., Terre Haute, Ind., a corporation
Application June 6, 1951, Serial No. 230,176
3 Claims. (Cl. 74—254)



1. A cutting chain structure comprising alternate connecting links and bit carrying links having side plates embracing adjacent ends of the connecting links with aligned openings in the connecting ends of the respective links, bushings mounted in the openings of the connecting links having an internal diameter registering with the internal diameter of the mating openings in the bit carrying links, said latter openings having opposed flats, said connecting links each having a pair of bores extending transversely and tangentially of the openings therein in intercepting relation with the inner surface of said bushings and on adjacent sides thereof, a main pin having a centrally disposed groove receivable within each of said bushings to extend through the

mating openings in said bit carrying link with said groove in mating relation with the adjacent said bore, a locking rivet extending through each of said bores with a portion thereof tangentially seating in the groove of said pin to interlock and prevent axial displacement thereof, and means for securing each of said locking rivets in pin locking position through opposed countersunk pin head engagement with opposed sides of said link, one of the heads of said pin being deformable to permit forcible removal thereof from its interlocking engagement with said main pin.

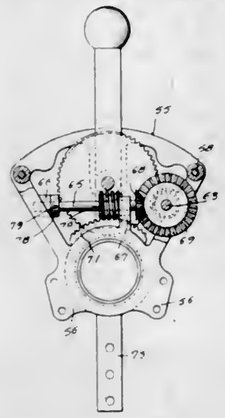
2,612,057
FEED SCREW RELEASING MEANS
Landon R. Gray, Manhattan Beach, and Harry P. Smith, Jr., Los Angeles, Calif., assignors to Richard Seifried, Playa del Rey, Calif.
Application November 1, 1951, Serial No. 254,284
8 Claims. (Cl. 74—424.8)



1. In a structure having a base provided with a plurality of keyways and having a member provided with a keyway adapted to register with a selected one of said plurality of keyways and said registered keyways being receptive of a key to lock the member to the base against a thrust on the member, a feed device carried by the base, an element engaged with the feed device and movable thereby, a pair of abutments secured to the member, one on each side of the element, and spaced apart a distance greater than the length of said element, the element, during movement by the feed device, first abutting one of said pair of abutments and then moving said abutment and the member along the base to effect the mentioned register of keyways, said element being subject to the thrust on said member when abutting said abutment, and means to move said element to release the same from the force of said thrust.

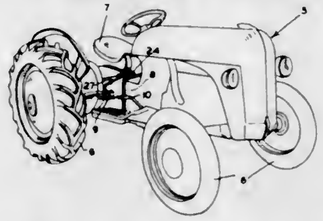
2,612,058
IRREVERSIBLE THROTTLE CONTROL
Philip M. Waite, Corry, Pa.
Application October 3, 1950, Serial No. 188,103
1 Claim. (Cl. 74—491)

An irreversible engine control comprising a frame formed of a pair of frame plates, a pair of spacer members between said plates, bolts extending through said spacer members securing said plates in spaced apart parallel relation, a tubular shaft between the lower portion of said plates and cooperating with said spacer members in holding said plates in spaced apart relation, a drive shaft journalled in said frame above and parallel with said tubular shaft, a driving lever fixed on said drive shaft, an intermediate shaft journalled in said frame parallel with said drive and tubular shafts, a worm shaft journalled in one of said plates and disposed at right angles to said drive and tubular shafts, a relatively large drive gear fixed on said drive shaft, a relatively small intermediate gear fixed on said intermediate shaft and meshing with said drive gear, a relatively large beveled gear fixed on said intermediate shaft, a relatively small beveled gear



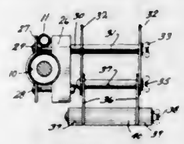
fixed on said worm shaft and meshing with said large beveled gear, a worm fixed on said worm shaft, a slave lever rockably mounted on said tubular shaft, and a worm gear fixed to said slave lever and meshing with said worm.

2,612,059
CONTROL DEVICE FOR LOCKING TRACTOR BRAKES
Kenneth F. Allen and Vernon W. Buker, St. Cloud, Minn.
Application December 8, 1950, Serial No. 199,822
1 Claim. (Cl. 74—527)



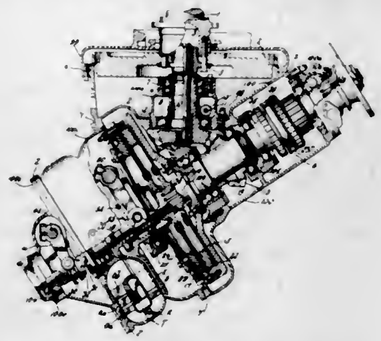
An attachment for farm tractors and the like for facilitating individual control of the brake locking mechanism of a tractor, said attachment comprising a pair of elongated flexible actuating elements, an operating handle securely connected to one end of each of said elements for interconnecting the same to form a continuous elongated flexible unit with a rigid gripping handle fixed thereto at the medial portion thereof, the other ends of said elements being adapted to be respectively connected with the two pivoted brake locking dogs, and a pair of elongated guiding tubes adapted to be mounted in fixed relation to a tractor and respectively receiving the two flexible elements in sliding relation therethrough to form the sole means of positioning the two interconnected end portions of said flexible elements and for directing the application of tension thereon to the position for swinging the locking dogs into operative position, said handle permitting simultaneous or selective individual tensioning of said two flexible elements whereby said two dogs may be simultaneously swung into locking position or may be individually shifted into locking position.

2,612,060
ACCELERATOR FOOTREST FOR AUTOMOTIVE VEHICLES
Charles H. Schetzer, Goodland, Kans.
Application January 20, 1950, Serial No. 139,676
3 Claims. (Cl. 74—564)



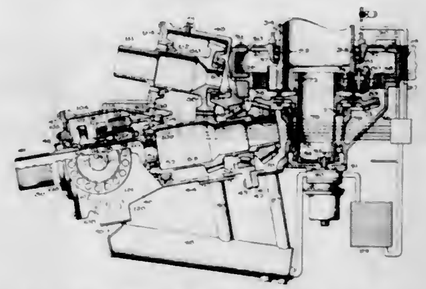
1. Means for supporting a foot rest from the steering column of an automotive vehicle comprising: an attachment block adapted to contact one side of said column; an attachment strap adapted to receive the other side of said column; clamp bolts drawing said block and said strap against said column; a relatively long bolt extending from said block; a spacing sleeve surrounding said bolt; an arm adapted to be clamped at each extremity of said spacing sleeve by the action of said bolt; a foot rest member supported between the outer extremities of said arms; a hinge in said arms allowing the outer extremities to be swung at an angle to the inner extremities thereof; and means for clamping said hinge at any desired angular position.

2,612,061
POWER TRANSMISSION
Hans O. Schjolin, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 3, 1945, Serial No. 608,787
28 Claims. (Cl. 74—645)



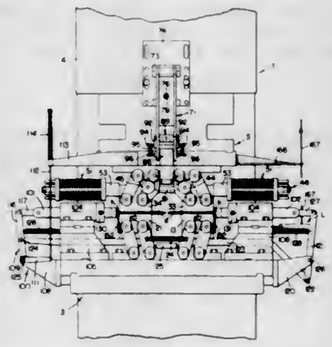
1. In compounded fluid and mechanical variable speed ratio transmissions, a variable speed transmission assembly including a fluid torque converter adapted to transmit the drive of an engine to a selective forward and reverse gear unit coupled to a load shaft, an engine shaft, an impeller member of said converter, an input member for said unit, actuable clutching means coupling said engine shaft alternatively with said converter impeller or with the input member of said unit and including a clutch operative for coupling the output of said converter to the input member of said unit, controlled actuating means for said clutching means operable to effect the coupling of said engine shaft directly with said unit input member and to disconnect said converter, or operable to decouple said engine from the input of said unit while coupling the input of said converter to said engine and the output of said converter to the input of said unit, and control means effective to cause said actuating means to perform said coupling and decoupling.

2,612,062
MAIN DRIVE UNIT FOR TANDEM ROTOR HELICOPTERS
Charles C. Miller, Jr., Springfield, Pa., assignor to Piasecki Helicopter Corporation, Morton, Pa.
Application July 7, 1949, Serial No. 103,444
17 Claims. (Cl. 74—665)



1. For use with a tandem-rotor helicopter, a drive unit comprising in combination, a housing for mounting in direct alignment with the rear rotor drive shaft, a rear rotor stub shaft journalled vertically in said housing, a bevel ring gear journalled below and coaxial with said stub shaft, an epicyclic reduction gear train between said gear and shaft, a main drive shaft journalled in said housing on an axis intersecting that of the stub shaft at an obtuse angle, a pinion on said main drive shaft meshing with said ring gear, a combination friction and positive clutch unit interposed in said main drive shaft within said housing, a forward rotor drive shaft journalled in said housing on an axis acute to both those of the main shaft and rear rotor stub shaft, and meshing bevel gears connecting the main shaft and forward rotor drive shaft on the pinion side of said clutch unit.

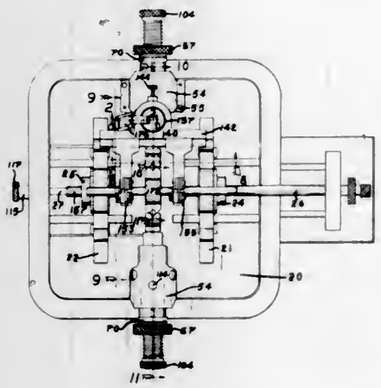
2,612,063
MACHINE FOR FORMING TEETH FOR PEG TOOTH HARROWS
Donald A. Wangelin, Rock Island, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application June 25, 1948, Serial No. 35,095
21 Claims. (Cl. 76—1)



1. A device for shaping heated metal pieces, comprising a pair of grippers adapted to grip said

heated metal piece, a pair of relatively movable supports movable toward and away from one another, link means pivoted to each gripper and the adjacent support and of such length that when said grippers engage a piece said link means are disposed at an angle to one another whereby when one of said supports is moved toward the other one component of force causes said grippers to clamp said piece therebetween and another component of force moves said piece laterally, and means responsive to said lateral movement for shaping said piece.

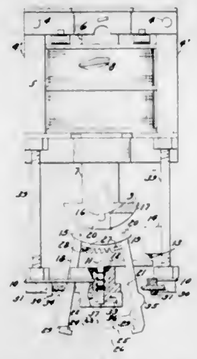
2,612,064
MACHINE FOR BORING CONNECTING RODS
Ewald A. Arp, Minneapolis, Minn., assignor to Tobin-Arp Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application December 6, 1948, Serial No. 63,691
15 Claims. (Cl. 77—3)



1. In a machine of the character described, a frame, spaced apart operating levers having intermediate portions thereof mounted upon said frame for swinging movement of first and second arms, respectively, of said operating levers toward and away from each other, hydraulically operated means for forcibly moving the second arms of said operating levers in direction away from each other thus to move the first arms of said operating levers toward each other, alined pushrods pivotally assembled with said first arms of the operating levers, bearings floatingly supporting said alined push rods for independent longitudinal movement, and spaced apart clamping members supported upon and between said pushrods in alined relation therewith and disposed between the first arms of said operating levers.

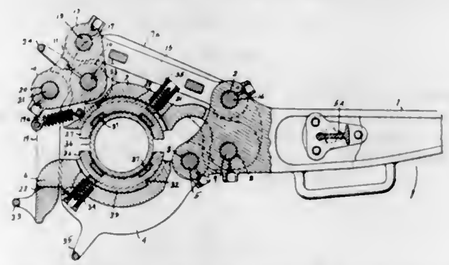
2,612,065
POWER-OPERATED BOTTLE OPENER
Donald H. Packer and Peter R. George, Toledo, Ohio; said George assignor to said Packer
Application November 18, 1948, Serial No. 60,682
5 Claims. (Cl. 81—3.2)

4. A decapper comprising a frame, a plunger reciprocally mounted in the frame, actuator means for reciprocating the plunger, said frame providing a seat for a cap, a pair of opposing arms pivotally connected to the plunger, said frame providing guide means coacting with and to direct the arms in one direction of plunger movement to engage and distort a cap at the seat, additional means connected to one of said arms and coacting with said frame for moving said one arm away from said cap on continued movement



of said plunger to permit release of the distorted cap.

2,612,066
TONG
Walter L. Church, Houston, Tex.
Application March 26, 1948, Serial No. 17,310
5 Claims. (Cl. 81—66)

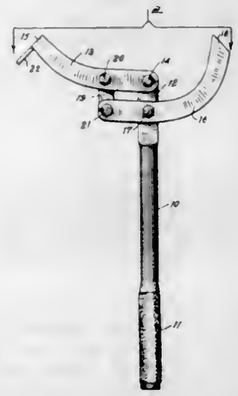


2. A tong comprising a handle, a first clamping member pivoted at its inner end to the handle, a second clamping member disposed in opposing relation to the first member and pivoted at its inner end to the handle at a point outwardly of the inner end of the first member, said members being shaped to surround an object to be turned, a bell crank pivotally mounted adjacent the outer end of the first member, link means pivotally connected to one arm of the bell crank and to said handle, and latch means pivotally connected to the other arm of the bell crank and engageable with the outer end of the second member to latch the members about said object.

2,612,067
SPANNER TYPE FLYWHEEL ROTATING TOOL
Frank J. Brugmann, Greeley, Colo.
Application June 27, 1949, Serial No. 101,625
1 Claim. (Cl. 81—90)

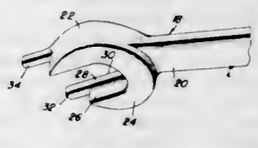
An engine rotating tool comprising; a lever, a first arm pivotally connected directly to the lever adjacent one end of the latter and projecting laterally thereof in a first direction, a second arm pivotally connected directly to the lever in spaced relation to the first arm and projecting laterally of the lever in a direction opposite to the first direction, the outer free ends of the arms being disposed beyond said end of the lever, gear tooth engaging means at the free ends of the arms constructed to engage angularly spaced

teeth on the periphery of an engine flywheel, and a stop element extending outwardly from the gear tooth engaging means at the end of one of



the arms forming a stop adapted to engage a stationary engine part to limit rotation in one direction.

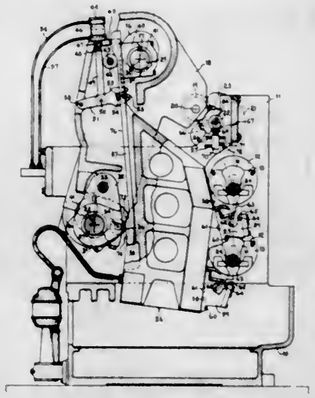
2,612,068
TAPPET WRENCH
Otto Heumader, St. Joseph, Mo.
Application September 23, 1949, Serial No. 117,408
1 Claim. (Cl. 81—119)



In a tappet wrench, a rigid wrench head having flat upper and lower surfaces and provided with an open ended recess to afford a pair of transversely spaced jaws, a pair of transversely spaced feeler fingers formed integrally with said head flush with the flat upper surface thereof and projecting outwardly beyond the open end of said recess, the distance between said feeler fingers being less than the distance between said jaws, the inner edge of one finger being coplanar with the inner surface of the associated jaw, and the inner edge of the other finger being stepped inwardly from the inner surface of the other jaw to afford a work engaging shoulder at one side of said recess.

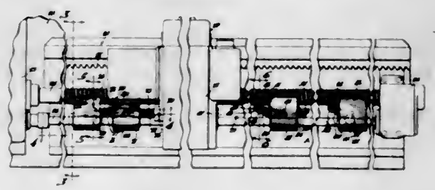
2,612,069
ORBITAL LATHE TOOL FEEDING MECHANISM
William F. Groene, Cincinnati, Ohio, assignor to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Application September 5, 1950, Serial No. 183,205
7 Claims. (Cl. 82—9)

1. In a tool feeding mechanism for an orbital lathe having a pair of master crankshafts, an orbital tool carrier, cutting tools fixed on said tool carrier, a link pivotally interconnecting said tool carrier with a crank pin of one of said master crankshafts, a cam bar slidably mounted in and supporting said tool carrier, a cam roller journaled on said link and engaging said cam bar, a second cam roller journaled on said carrier and engaging said cam bar at another spaced position, a bearing box journaled on a crank pin of said other master crankshaft and supportingly connected to said cam bar, and power means for



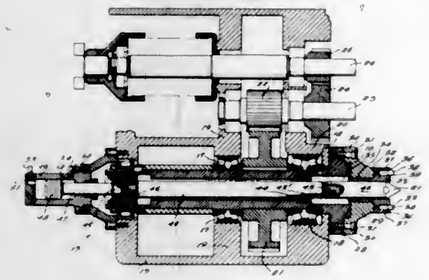
longitudinally reciprocating said cam bar to cause a relative displacement of said tool carrier and said crank pins of said master crankshafts including a connection between said cam bar and a crank pin of said upper master crankshaft.

2,612,070
DISPLACEABLE BEARING FOR LATHE FEED SHAFTS
William G. Hoelscher, Cincinnati, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a corporation of Ohio
Application September 8, 1948, Serial No. 48,243
13 Claims. (Cl. 82—27)
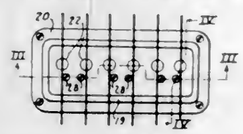


6. In a lathe having a bed, a carriage translatably mounted upon said bed and power shafts extending along said bed, support means for providing intermediate supports for said power shafts comprising; a plurality of slidable bearing blocks, said blocks having bores to provide bearing supports for said power shafts, a rail on said lathe bed for slidably supporting the blocks, said blocks being disposed in groups at opposite ends of the carriage and adapted to be engaged by the leading end of the carriage when the same is translated, a latch arm on each of said blocks, cooperating latch pins on the blocks and carriage adapted to couple the blocks of a group together and to the carriage when the several blocks are engaged collectively by the leading end of the carriage as the same is translated, trip pins secured to the lathe bed, said pins arranged to selectively engage said latch arms to release said blocks individually relative to each other and to said carriage when the carriage is translated in the opposite direction with the blocks in coupled relationship at the trailing end of the carriage.

2,612,071
HYDRAULICALLY OPERATED HEADSTOCK CENTER
Robert Kurzweil, Kew Gardens, N. Y., assignor to Morey Machinery Co. Inc., Long Island City, N. Y.
Application June 5, 1948, Serial No. 31,273
8 Claims. (Cl. 82—28)



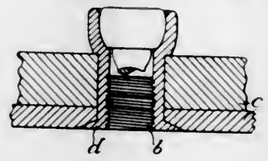
1. A lathe headstock comprising, in combination, a headstock body; a tubular headstock spindle rotatably and non-slidably mounted within said headstock body; driving means on the annular front face of said tubular headstock spindle for drivingly engaging a work piece; a rotatable headstock center mounted within said headstock spindle for rotation with said headstock spindle, but slidably in axial direction thereof; non-rotatable hydraulic means mounted on said headstock body for sliding said rotatable headstock center in axial direction of said headstock spindle relative thereto; and bearing means arranged between said non-rotatable hydraulic means and said rotatable headstock center so as to enable rotation of said rotatable headstock center together with said headstock spindle while moved in axial direction by said non-rotatable hydraulic means.

2,612,072
INDIVIDUAL MAGNET ADJUSTABLE PICKUP
Harry De Armond, Toledo, Ohio, assignor to Rowe Industries, Toledo, Ohio
Application May 10, 1950, Serial No. 161,243
4 Claims. (Cl. 84—1.15)



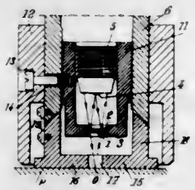
1. In a magnetic pick up device for stringed musical instruments, said device including an electromagnetic unit having an insulating coil form carrying a winding adapted to be placed adjacent the strings of a musical instrument, said coil form having a plurality of transverse openings therethrough; an elongated individual permanent magnet one movably mounted in each of said openings with one end of said magnet adapted to be positioned adjacent the instrument string; a plurality of transversely arranged screw-threaded shafts carried by said coil form and extending transversely of said unit, one located adjacent each magnet; connecting means between a magnet and an adjacent shaft; and means on each of said screw-threaded shafts for turning the same whereby each of said magnets are individually adjusted toward and away from its corresponding string and maintained in adjusted position.

2,612,073
HOLLOW THREADED RIVET
Roland Foster Taylor, Manchester, England, assignor to A. T. S. Company Limited, London, England, a British company
Application December 6, 1946, Serial No. 714,443
In Great Britain April 19, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 19, 1964
1 Claim. (Cl. 85—40)



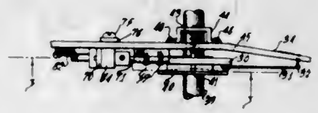
A combined rivet and threaded socket for a fastening screw comprising a tubular rivet having at one end an external flange and an internal screw thread which extends from the flange into the bore of the rivet for a substantial portion of the length of the rivet, and a pin extending through the tubular rivet from its externally flanged end and projecting beyond the other end of the rivet where it has an enlarged head of a maximum diameter not greater than the external diameter of the shank of the rivet, said rivet and pin being of the type wherein drawing tension applied to the end of the pin beyond the flanged end of the rivet causes the head of the pin to expand the other end of the rivet until the drawing tension fractures the pin and leaves the head of the pin in the expanded part of the rivet, said pin embodying means to ensure fracture of the pin within the bore of the rivet at a point adjacent the inner end of said screw-threaded portion, whereby the screw-threaded portion of the rivet remains open and forms a threaded socket for receiving a fastening screw, the length of said threaded portion being such that at least a portion of the threads thereof will be deformed by the drawing tension of said pin.

2,612,074
INTERFEROMETER
André Henri Mirau, Paris, France, assignor to Society "La Precision Mecanique," Paris, France, a society of the Republic of France
Application March 27, 1950, Serial No. 152,151
In France March 30, 1949
9 Claims. (Cl. 88—14)



1. An apparatus for studying by interference of light a surface to be tested which comprises, in combination, a light source, lens means for concentrating light rays from said source into a beam converging on said surface, a single partly reflecting and partly transparent element disposed on the other side of said lens means from said source across the light beam issuing from said lens for dividing it into two elementary beams, a mirror located between said dividing element and said lens means having its reflecting face turned toward said element for equalizing the optical paths of the elementary beam reflected on said element and of that passing through said element reflecting on said surface to be tested and passing back through said element, said mirror and said dividing element extending across the optical axis of said lens perpendicularly thereto, and a viewing device arranged to receive both of the elementary beams leaving said dividing element.

2,612,075
FILM PULLDOWN METHOD
Edward W. Kellogg, Haddonfield, and Warren R. Isom, West Collingswood, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application June 24, 1949, Serial No. 101,042
13 Claims. (Cl. 88—18.4)



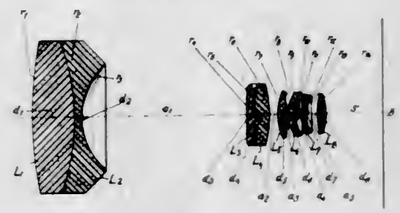
1. The method of intermittently advancing the frames of a motion picture film into and out of a projection aperture by a claw which comprises advancing said claw at a constant speed for a short initial distance substantially one percent of the entire distance of advancement to contact said film, rapidly accelerating the advancement of said claw to advance said film for a distance substantially one-half that of the height of a picture frame, then advancing said claw and film over substantially the other half of said frame with substantially an equal negative acceleration, and thereafter advancing said claw and film at a constant speed over a distance of substantially one-half percent of the total height of said frame.

2,612,076
AUXILIARY NOSE PIECE FOR BIFOCAL EYE GLASSES
William Dietz, Hollywood, Calif.
Application October 2, 1950, Serial No. 188,001
4 Claims. (Cl. 88—51)



1. A detachable auxiliary nose piece for spectacles which have optically spaced bifocal lenses and applicable for elevating the lenses from normal distant vision position to near vision position; said nose piece being of unitary structure and formed with arcuate diverging legs and a bridge connecting upper portions of said legs, said legs having external channels so contoured as to conform to and frictionally receive inner segments of the spectacles and having nose engaging surfaces on their inner sides.

2,612,077
WIDE-ANGLE HIGH-SPEED PHOTOGRAPHIC OBJECTIVE
Wolfram Wilhelm Albrecht, Kreuznach, Germany, assignor to Jos. Schneider & Co., Kreuznach, Germany
Application March 15, 1951, Serial No. 215,734
In Germany June 20, 1950
3 Claims. (Cl. 88—57)



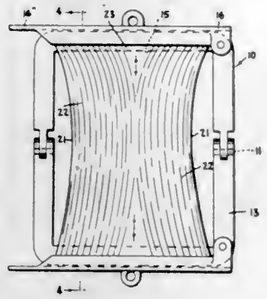
1. A wide-angle high-speed photographic objective comprising a diverging first lens member and at least four additional lens members spaced in air from one another, said objective having a predetermined overall focal length, the spacing between said first lens member and the nearest of said additional lens members being equal to at least three times said overall focal length, said first and additional lens members having refractive surfaces with radii of curvature all greater than 0.7 times said overall focal length, said first lens member having a focal length equal to at least four times said overall focal length, the total axial length of the objective being not greater than substantially seven times said overall focal length.

2,612,078
LIGHT TRANSMITTING STRUCTURE WHICH MAY BE MADE TRANSPARENT OR TRANSLUCENT AT WILL
Salvatore De Lisio, Boston, Mass.
Application January 16, 1950, Serial No. 138,922
1 Claim. (Cl. 88—60)



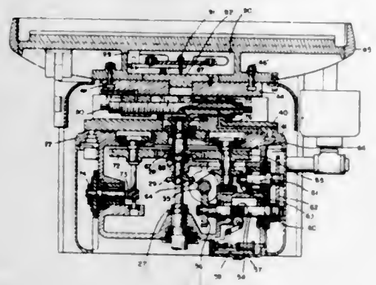
A light transmitting structure that may be made transparent or translucent at will, comprising in combination, an integral panel having formed therein a plurality of parallel ducts extending throughout one dimension thereof, said ducts being partially overlapping in the direction of the light impinging upon said panel to prevent the passage of all but a small part of such light through said panel without passing through one or more of said ducts and the common wall of each proximate pair of ducts being an integral part of said panel, the walls of said ducts having such configuration as to make said panel normally translucent, means affording a supply duct in communication with one end of each of said parallel ducts, means sealing the other ends of said parallel ducts, and means for supplying to or withdrawing from said supply duct at will a liquid having the same index of refraction as said panel, whereby when said parallel ducts are filled with said liquid, said panel will be transparent and when said liquid is withdrawn therefrom said panel will be translucent.

2,612,079
PROCESS OF MAKING LIGHT POLARIZERS
Joseph Mahler, Brookline, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 12, 1948, Serial No. 26,668
4 Claims. (Cl. 88—65)



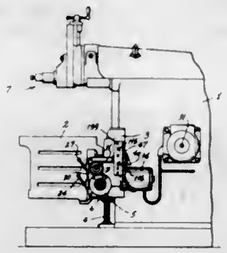
1. The process of forming a light polarizer comprising bathing a preformed unstretched sheet of solid polyvinyl alcohol in an aqueous solution of an alkali metal neutral salt where the salt embodies in the neighborhood of ten per cent by weight of the solution for a time interval sufficient to render the sheet stretchable at near room temperature, and then stretching the sheet while in its moistened state to orient the molecules thereof, said process including the step of dyeing the sheet with a dichroic stain whereby the molecules when so dyed and oriented will provide the sheet with the desired light polarizing characteristics.

2,612,080
GEAR FINISHING MACHINE
Kenneth J. Davis, Detroit, Mich., assignor to National Broach & Machine Company, Detroit, Mich., a corporation of Michigan
Application September 3, 1946, Serial No. 694,590
10 Claims. (Cl. 90—1.6)



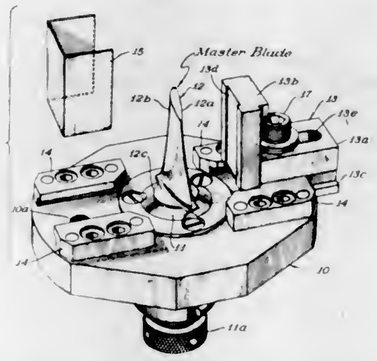
1. A machine tool comprising a frame, a cutter spindle, means mounting said cutter spindle on said frame for adjustment about a first axis perpendicular to said spindle, a work table having a work spindle thereon perpendicular to said first axis, feeding means interposed between said frame and said work table, ways on said feeding means perpendicular to said first axis, said feeding means being adjustable relative both to said frame and said table about a second axis parallel to said first axis, and means preventing rotation of said table during adjustment of said feeding means.

2,612,081
MACHINE TOOL
Ernest Gygax, St. Louis, Mo., assignor to Gemco Shaper Company, a corporation of Missouri
Application August 17, 1945, Serial No. 611,113
22 Claims. (Cl. 90—48)



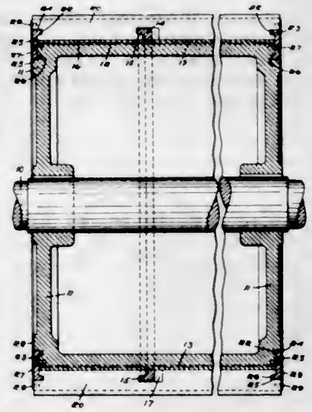
1. In a machine of the kind described, a base, movable means including a work supporting table member, mounted movably on the base, a prime mover motor for moving the movable means, the motor being mounted on the movable means, a tool carrying means movably mounted on the base, means for movably operating the tool carrying means, and means connected with the means for operating the tool carrying means for controlling energization of the motor, to energize the motor and cause movement of the movable means to displace the table, only during limited parts of the operation of the tool carrying means.

2,612,082
IMPELLER BLADE SUPPORT FIXTURE
Pierce T. Angell and Carl J. Leska, Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application March 31, 1948, Serial No. 18,134
9 Claims. (Cl. 90—59)



9. A machine tool fixture for supporting an impeller blade for machining operations on one face thereof, the opposite face of the blade having a complex configuration, consisting of a support block having a generally planar face; a rigid backing element mounted on said block having a frontal generally planar face extending away from said block and normal to the planar face of said block; a matrix of metal cast onto said backing element having a frontal face molded to conform with the complex face of the blade; a first means in the center of said block and in front of the frontal face of said matrix for engaging and rigidly holding the blade at one end thereof to so position the blade that a plane passing through the blade and generally parallel to the opposite faces of the blade extends away from said block and normal to the planar face of said block and generally parallel to the frontal face of said backing element and in front of the frontal face of said matrix; and adjustable means for securing said backing element to said block at a given radial distance from said first means so that the complex face of the blade abuts and is supported by the frontal face of said matrix and free access may be had to the opposite face of the blade.

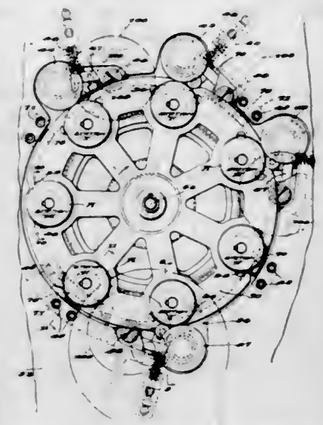
2,612,083
BEATER ROLL
Frank Hayes, Hoosick Falls, N. Y., assignor to Noble & Wood Machine Co., Hoosick Falls, N. Y., a corporation of New York
Application September 3, 1947, Serial No. 771,942
4 Claims. (Cl. 92—22)



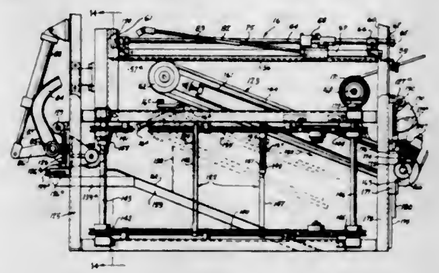
1. In a beater roll, the combination of a shaft, a roll body having a machined surface of a predetermined radius mounted thereon for rotation therewith and having a plurality of grooves extending longitudinally thereof and dividing the surface of the body into segments, locking rings secured to the surface of the body and spaced along the length thereof, segment separating spacers seating in said grooves and locked to the body by the locking rings, and a filling for each of the segments comprising a plurality of intermediate spacers and cutter bars arranged alternately in the segment, locked to the locking ring, and with their lower ends in engagement with the surface of the roll body.

2,612,084
CAPMAKING MACHINE
William J. Keith, Brookline, Mass., assignor to Keith-Peabody, Inc., Brookline, Mass., a corporation of Massachusetts
Application October 25, 1946, Serial No. 705,616
18 Claims. (Cl. 93—1)

4. In a cap making machine, the combination of a forming roll having a circumferential groove in the periphery thereof and adapted to receive a strip of material wound in multiple convolutions on the periphery of the roll, and means having a portion thereon arranged to interfit in complementary relation with said groove for embossing the strip of material in each layer thereof as applied to the roll to form securing means on the inner surface thereof.



2,612,085
APPARATUS FOR ASSEMBLING PARTITIONS FOR PACKING CELLS
Richard C. Merry, Oakville, Ontario, Canada
Application September 22, 1948, Serial No. 50,494
7 Claims. (Cl. 93—37)



1. In apparatus for assembling longitudinal partitions with cross-partitions to form a packing cell wherein the partitions are notched inwardly from at least one edge thereof so that a portion of the material of each partition is caught in the corresponding notch of the intersecting partition; a cross-partition feeding unit comprising a magazine, means for selecting a cross-partition from said magazine, supporting means for supporting a selected partition, conveying means designed to engage the ends of a supported partition and carry the same away from said supporting means, means for conveying longitudinal partitions in parallel spaced apart relationship with their notched edges free longitudinally of said unit and at a certain velocity, said conveying means being designed to convey said cross-partition transversely of the longitudinal partitions and in the same direction of movement at the same velocity, depressing means for positively urging the cross-partition as it is conveyed toward the longitudinal partitions and comprising, an inclined frame piece, means adjustably mounting said inclined frame piece whereby the same may be adjusted for controlling the assembly of various sizes of cross-partitions with various sizes of longitudinal parti-

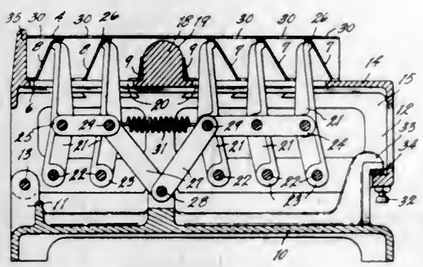
tions, and means mounted on said frame for engaging an edge of a cross-partition to cause the latter to move in a direction toward the longitudinal partitions.

2,612,086

CELLULAR CARTON ERECTING MACHINE

Harold R. Houtman, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.

Application December 4, 1950, Serial No. 199,060
15 Claims. (Cl. 93—37)



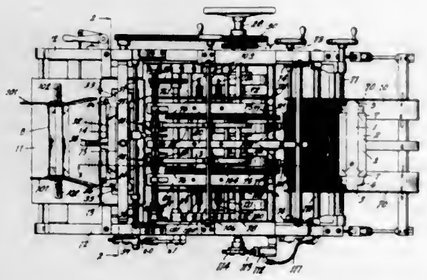
11. In a structure of the class described, the combination of a base, a carton support member swingably mounted on said base and adapted to receive a partially erected carton in inverted position, partition erecting fingers pivotally mounted on said support member, a connecting link for said fingers, and a link connecting the fingers to the base whereby the fingers are actuated when the support member is swung in one direction.

2,612,087

MACHINE FOR ERECTING CARTONS

Franklin M. Willbrandt, Battle Creek, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich.

Application October 7, 1949, Serial No. 120,191
13 Claims. (Cl. 93—49)



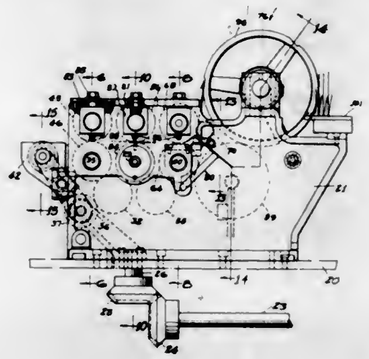
1. In a machine for erecting cartons having a bottom and side and end walls hingedly connected to the bottom, the side walls having inwardly inclined slits opening at their end edges providing deflectable portions above the slits, the end walls having corner flaps adapted to enter said slits and provided with tongues engageable with such deflectable portions, comprising a bed having an opening therein, a carton bottom support approximating but of somewhat less dimensions than the bottom of the carton to be erected mounted within said bed opening in spaced relation to the edges thereof, a reciprocable carton holder plate coacting with said support and of a dimension substantially corresponding to the dimensions of the carton bottom, swingably mounted side wall and corner flap folders, said side wall folders having inwardly inclined and longitudinally downwardly and outwardly disposed cams fixed on their faces acting to engage the deflectable portions of the side walls and deflect them inwardly and to guide the corner flaps into locking relation therewith when the end walls and corner flaps are swung to erected position, said carton holder plate having recesses in its side edges permitting the deflecting of the said deflectable portions of the side walls, swingably mounted end wall folders acting to swing the end walls and the corner flaps to erected position while the corner flaps are supported by the side folders, the said cams on said side folders acting to guide the corner flaps into interlocking engagement with the deflectable portions of the side walls.

2,612,088

CLOSURE FLAP FOLDING AND ENVELOPE STACKING MECHANISM FOR ENVELOPE MACHINES

Vincent E. Heywood, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a corporation of Maine

Application July 13, 1948, Serial No. 38,495
4 Claims. (Cl. 93—62)



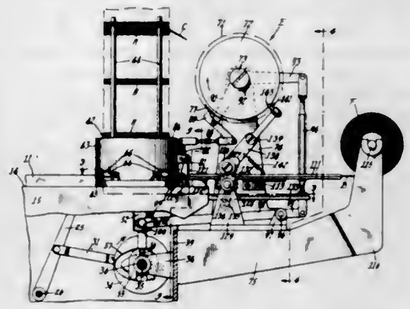
1. In mechanism of the class described, for folding down the extended seal or closure flaps of envelopes, the combination with means for advancing successive envelopes flatwise in a substantially horizontal path, with their bottom folds or edges foremost and their extended seal flaps in trailing relation, glued margins facing downward, of a pair of cooperating rolls between which each envelope is received at the end of said path, and beyond which said envelope's pocket portion is wholly unobstructed and unsupported, whereby gravity is effective thereon to initiate between said pocket portion and its associated seal flap a bending in the direction of the desired ultimate fold or crease between said parts, means carried by the upper roll of said pair for gripping each seal flap's upper surface adjacent the zone of said desired fold or crease, whereby in the ensuing upward movement of said gripping means by said upper roll's rotation, said pocket portion becomes pendent from its associated seal flap, to increase said gravitational bending action, and a third roll cooperating with the upper roll at a point in said upward movement to receive said bend and to press same into a fold or crease, substantially at the line of juncture between seal flap and pocket portion.

2,612,089

MACHINE FOR COUNTING AND STACKING ARTICLES

Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application November 12, 1948, Serial No. 59,595
7 Claims. (Cl. 93—93)



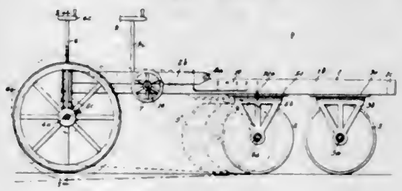
1. In a counting and stacking machine, the combination of means for feeding articles to a stack of such articles, a counter arranged to count a predetermined number of articles as they are added to the stack to form a batch, counter actuating means operable adjacent said counter in time with said feeding means, detector means located in the path of articles entering the stack and engageable by each article as it is added to said stack for connecting said counter actuating means with said counter to actuate the counter, a pair of rollers disposed in spaced relation on opposite sides of a normally stationary strip of marker material, means connected with said article feeding means for rotating one of said rollers in time with said feeding means, means controlled by said counter for moving one of said rollers toward the other when a batch of articles has been counted for engaging the strip of marker material between said rollers and for feeding it into the stack between the last article in the batch and the next following article added to the stack, and cut off means disposed between the stack and said rollers and operable in time with said feeding means for severing the inserted portion of the strip to form a projecting marker to visibly indicate the termination of the counted batch of articles.

2,612,090

ROAD ROLLER

Nicolaas Revers, Limmen, Netherlands

Application December 19, 1946, Serial No. 717,295
In the Netherlands November 30, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 30, 1965
1 Claim. (Cl. 94—50)



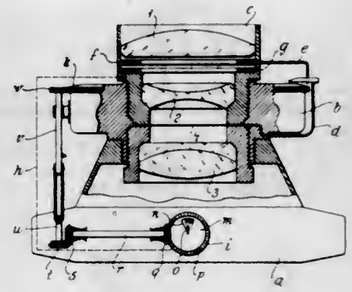
A road roller, comprising a main frame, a first bracket swivelled on a pivot shaft under the forward portion of the main frame and being provided with a road roller mounted to rotate therein, a second bracket, rearwardly of said first bracket, swivelled on a pivot shaft which extends through a secondary frame slidable on the main frame and said second bracket is provided with a road roller mounted to rotate therein, a steering wheel mounted on a vertical shaft rearwardly of said brackets, said wheel being provided with opposed pins spaced on opposite sides of said shaft, a similar wheel mounted on the pivot shaft of said first bracket and provided with eccentric pins, parallel rods connected at their ends with the spaced pins of both wheels, a bar located between the parallel rods and having eccentric end connection with one of the wheels and provided with a slot on the opposite end, an eccentric pin carried by the other wheel engaging said end slot adjacent and over the first bracket, the pivot shaft of said second bracket being provided with an eccentric arm having an outer pin engaging an elongated intermediate slot in said bar, screw shafts mounted longitudinally of the main frame, a cross shaft having gear driving connection with both screw shafts, a nut carried on each end of the sliding secondary frame and engaging each screw shaft, whereby the last named bracket may be shifted longitudinally of the main frame, and vertically adjustable rear wheels on the main frame spaced longitudinally of the rollers.

2,612,091

OPTICAL SYSTEM WITH AUTOMATIC PHOTOMETERING AND DIAPHRAGM ADJUSTING MEANS

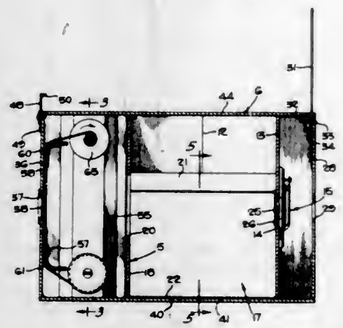
Karl Johann Weiss, Bad Kreuznach, Germany, assignor to Jos. Schneider & Co., Kreuznach, Germany

Application May 31, 1950, Serial No. 165,140
In Germany February 9, 1950
2 Claims. (Cl. 95—10)



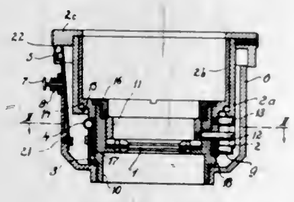
2. In a camera, in combination, a first lens and at least one other lens together defining an objective, said first lens projecting annularly beyond said other lens, an annular photocell back of said first lens and substantially in register with the projecting portion thereof, thereby intercepting part of the light passing through said first lens while allowing a portion of said light to pass centrally of said photocell toward said other lens, an adjustable main diaphragm back of said photocell but forwardly of said other lens, said main diaphragm controlling the portion of said light passing toward said other lens, and an adjustable auxiliary diaphragm between said first lens and said photocell controlling the amount of light intercepted by the photocell.

2,612,092
CAMERA AND MONEY CONTAINER
Eric H. Heyer, Los Angeles, and Edwin Elston, Beverly Hills, Calif.
Application April 27, 1950, Serial No. 158,466
4 Claims. (Cl. 95—12)



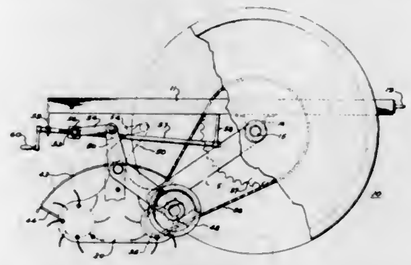
1. A combination camera and money mailing container comprising an inner unit with four walls at right angles and open ends, an outer unit having six walls, two walls of each unit being in contact and attached to each other, two other walls of said outer unit being parallel from the other two walls of said inner unit, but spaced therefrom, and the last two walls of said outer unit closing the ends of said inner unit, and a money container attached to one of the walls of said inner unit which is attached to one of the walls of the outer unit, access thereto being provided by an opening in the wall of said outer unit at right angles to the wall of said outer unit to which the said wall of the inner unit is attached, said container having a resilient flap covering said opening to prevent light from entering said camera and the contents of said container from leaving said container.

2,612,093
OPTICAL SYSTEM WITH SEMIAUTOMATIC DIAPHRAGM ADJUSTMENT TO PRESELECTED POSITION
Karl Heinz Schütz, Bad Kreuznach, Germany, assignor to Jos. Schneider & Co., Kreuznach, Germany
Application May 31, 1950, Serial No. 165,193
In Germany November 16, 1949
3 Claims. (Cl. 95—64)



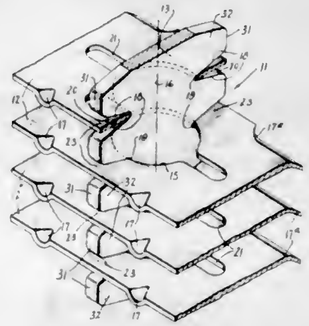
1. In a camera, in combination, a stationary housing, a control element, an actuating member and a stop member all concentrically mounted on said housing for rotation about a common axis, a diaphragm having an opening variable by rotation of said control element relative to said housing, spring means urging rotation of said control element in a first sense tending to decrease the size of said opening, said actuating member being permanently coupled with said control element and being axially displaceable between a first and a second axial position with respect to said housing, a first formation on said stop member, first abutment means permanently entrained by said actuating member and engageable by said first formation upon rotation of said actuating member in said first sense, thereby preventing rotation of said actuating member and of said control element beyond a predetermined position relative to said stop member upon displacement of the actuating member toward closure of the diaphragm, a second formation on said stop member, second abutment means on said actuating member engageable by said second formation upon rotation of said actuating member in a second sense, opposite said first sense, in said second axial position only but permanently disengaged from said second formation in said first axial position of said actuating member, said actuating member thus rotatively entraining said stop member when rotated in said second axial position toward maximum opening of the diaphragm, first indexing means adapted to hold said stop member in an angular position selected by thus rotating said actuating member, second indexing means adapted to hold said control element in an extreme position, corresponding to maximum diaphragm opening, upon rotation of said actuating member in said second sense, and release means for inactivating said second indexing means, thereby enabling said spring means to remove said actuating member and said control element from said extreme position to another position corresponding to a preselected setting of said stop member.

2,612,094
POWER ROTOR AND DEPTH ADJUSTMENT THEREFOR
Bronislaw J. Drozinski, Cleveland, Ohio
Application October 28, 1948, Serial No. 56,997
2 Claims. (Cl. 97—40)



2. A ground pulverizing machine comprising, two main support wheels; an axle interconnecting said wheels; a frame mounted about said axle; a pair of gear casings oppositely disposed from one another and located on opposite sides of the machine; ground engaging rotor elements disposed in tandem and having opposite ends thereof mounted in said casings; a pair of bell cranks for pivotally and conjointly supporting said gear casings at the apexes of said bell cranks; a longitudinally extending worm shaft mounted to said frame; link means pivotally interconnecting said worm shaft and the top leg of each of said bell cranks, said link means being adapted for longitudinal movement on said shaft whereby said bell cranks can be pivotally moved about their apex for raising or lowering said casings relative to the frame; ground wheels journalled on the lower leg end of each of said bell cranks; a pair of arms pivotally interconnecting said casings and the axle of the main support wheels for pivotally and conjointly supporting said casings in conjunction with said bell cranks, said bell cranks being adapted to bring said ground wheels beneath the bottom level of said rotor elements when said link means are moved in one direction on said worm shaft and to bring said ground wheels above the bottom level of said rotor elements when said link means are moved in the opposite direction on said shaft; and driving means for rotating said rotor elements.

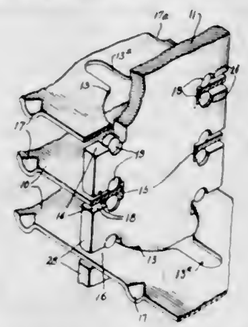
2,612,095
ADJUSTABLE AIR DISTRIBUTION GRILLE
Walter W. Kennedy, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application October 5, 1948, Serial No. 52,916
13 Claims. (Cl. 98—40)



1. A grille having two relatively perpendicular sets of fins and angularly adjustable crossbars with the parts of each set spaced apart longitudinally of the parts of the other set, said fins being composed of relatively thin sheet metal and having rows of spaced holes therein elongated in one direction to receive the crossbars in assembly and disposed intermediate the edges of the fins to provide lands on opposite sides of the holes, and said crossbars being of greater rigidity than the fins and having outwardly opening notches longitudinally spaced along the crossbar margins and flaring outwardly for coaction of their walls with the edges of said holes to guide said lands into the notches during turning of the crossbars in said holes.

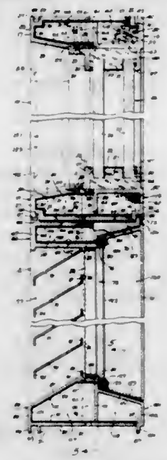
2,612,096
ADJUSTABLE AIR DISTRIBUTION GRILLE
Walter W. Kennedy, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application December 21, 1949, Serial No. 134,255
7 Claims. (Cl. 98—40)

1. A grille comprising a series of thin flat fins disposed in spaced parallel relation and having holes therethrough spaced longitudinally of the fins, a plurality of crossbars substantially thicker than said fins each extending through one set of the alined holes of the fins and having marginal notches substantially wider than the thickness of said fins and defined by parallel side walls straddling the portions of the fins surrounding said holes, semicircular depressions formed in opposite sides of said crossbars adjacent the margins of each of said notches, and lugs projecting into said notches and toward each other from the depressed portions of the crossbar with the opposed inner ends of the lugs spaced apart a distance slightly greater than the thickness of



the fins for engagement with the surfaces of said fin portions.

2,612,097
WINDOW CONSTRUCTION
Richard B. Pollman, Detroit, Mich.
Application January 3, 1947, Serial No. 719,952
3 Claims. (Cl. 98—88)

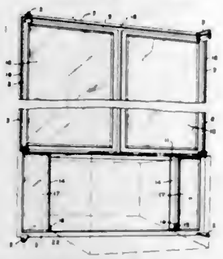


1. A building structure for mounting in a building opening comprising a window unit having an open centered frame structure with a window pane mounted therein, and a ventilating unit disposed in said building opening independently of and separable from said window unit and having an open centered frame structure with spaced ventilating louvers mounted therein, said window and ventilating units being mounted in edge to edge abutting relationship in said building opening and having interengaging portions mating with one another in freely-separable interfitting relationship along said abutting edges, each frame structure being of hollow construction with a chamber extending substantially around the entire periphery of the window pane and heat insulating material disposed in said chamber.

2,612,098
CASEMENT WINDOW FOR AIR CONDITIONERS
Henry J. Bolin, Elmont, N. Y.
Application March 3, 1950, Serial No. 147,581
3 Claims. (Cl. 98—94)

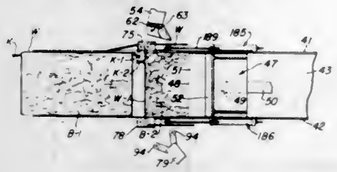
1. A casement window comprising a first standard Z-bar frame having a top and bottom section

and side sections, a second Z-bar frame of a height less than that of said first standard Z-bar frame, means for removably securing said second Z-bar frame to the corresponding sections of said first Z-bar frame, the top and bottom sections of said sceond Z-bar frame having hinges, window panes secured to said hinges to permit of opening and closing, respectively, said window panes, two T-sections disposed vertically between the



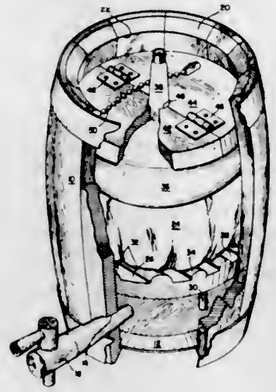
respective bottom sections of said first Z-bar frame and said second Z-bar frame to form an opening between the said last mentioned bottom sections and said vertical T-sections, means for securing the said vertical T-sections at their ends in vertical position, said opening being adapted to receive an air conditioning unit, and a window pane disposed between each of said vertical T-sections and its adjacent side section of said first Z-bar frame.

2,612,099
AUTOMATIC BALER
Marcus E. McClellan and Leo G. Cheatum, Ottumwa, Iowa, and George B. Hill, New Holland, Pa., assignors to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application June 10, 1949, Serial No. 98,182
15 Claims. (Cl. 100—4)



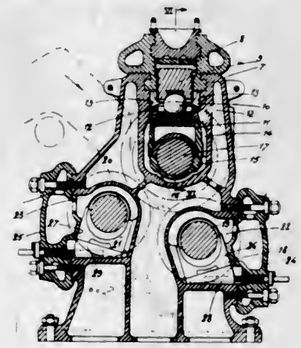
14. An automatic baler, comprising: bale-forming means including a bale case and a plunger reciprocable therein in a cycle of alternate compression and retraction strokes; tying means for tying bales formed by the bale-forming means; drive mechanism for the bale-forming means and the tying means, including first and second mobilizable and demobilizable drive means; means connecting the first drive means to the plunger; means connecting the second drive means to the tying means; means interrelating the first and second drive means for alternate mobilizing of one and demobilizing of the other to incur, alternately, operation of the plunger while the tying means is idle or operation of the tying means while the plunger is idle; control means connected to the interrelating means and changeable from a first status incurring operation of the plunger and idleness of the tying means, to a second status incurring operation of the tying means and idleness of the plunger; means associated with the control means and with the bale-forming means and operative in response to predetermined accumulation of material in the bale case to condition the control means for change from its first to its second status; motion-transmitting means for transmitting power from the bale-forming means to the control means, including first and second elements disconnected from each other when the control means is in its first status and connectible to effect change of the control means to its second status, the first of said elements being connected to the control means and the second of said elements being arranged for movement by the bale-forming means according to movement of the plunger in its operating cycle, the means for conditioning the control means conditioning the first element for connection to the second element, and the means for effecting change of the control means to a second status incurring connection of said elements when the second element reaches a position corresponding to a predetermined position of the plunger in its cycle; and means associated with the control means and with the tying means and operative in response to a predetermined phase of operation of the tying means to effect return of the control means to its first status.

2,612,100
PNEUMATIC JUICE EXTRACTOR
Norma Lee Bates and Ray D. Bates, Auburn, Wash.
Application July 21, 1950, Serial No. 175,154
4 Claims. (Cl. 100—122)



1. A mechanism for expressing fluids from pulped fluid-containing fruit and vegetable materials, comprising: a receptacle having an upwardly open circular mouth, said receptacle being shaped interiorly so that adjacent said mouth is provided an annular shoulder overhanging the interior of said receptacle; a sac; a lower ported member in said receptacle to support above the bottom of said receptacle said sac containing the pulped material from which fluid is to be expressed; an inflatable bladder adapted to lie upon such a sac within said receptacle, said bladder having an upstanding stem adapted to receive fluid under pressure for the inflation of said bladder: and a circular closure plate for said receptacle adapted to overlie said bladder, said closure plate being ported to receive said upstanding bladder stem and including a pair of semi-circular plate halves the curved edges of which are shaped to engage said receptacle interior beneath the annular shoulder and, when lying in a common plane with the chordal edges in juxtaposition, to resist upward expulsion from said receptacle upon the inflation of the bladder, said closure plate being removable when said bladder is deflated by movement of said plate halves out of coplanar relationship in which condition said plate halves may be withdrawn from said receptacle through said open mouth.

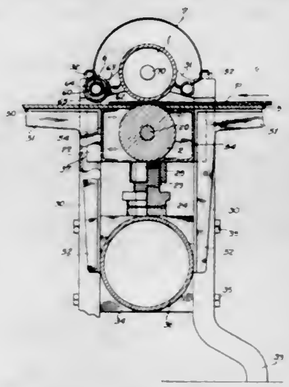
2,612,101
SUGAR CANE MILL
Auguste Bernard, Paris, France, assignor to Societe dite: Compagnie de Fives-Lille, Paris, France, a corporation of France
Application February 5, 1947, Serial No. 726,684
In France February 22, 1946
2 Claims. (Cl. 100—165)



1. A sugar cane mill comprising in combination, a frame having upright heads, a downwardly hydraulically pushed piston in the top part of each of said heads above a recess thereof, a bearing loosely placed in said recess, a ball interposed between a front surface of said piston and an upper socket in said bearing, means to keep said ball substantially in the transverse plane of the mill passing through the axes of said pistons, an upper cylinder journalled in said loose bearings, an entry lower cylinder and an outlet lower cylinder journalled in fixed bearings in said frame on each side of the vertical plane through the axis of said upper cylinder and said outlet cylinder at a level below said entry cylinder, in such a manner that the resulting force from the reactions of said lower cylinders is substantially vertical and opposite the resulting force of the hydraulic pressure, whereby said upper cylinder is equilibrated in a middle position and may oscillate both longitudinally and transversely to the mill according to any variation in thickness of the bagasse under said upper cylinder without change in the pressure exerted on the bagasse passing over said lower cylinders.

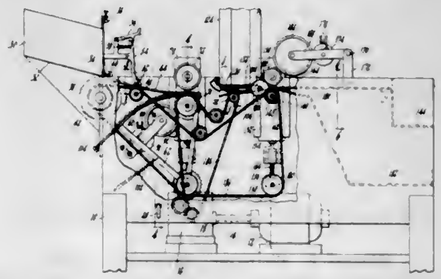
2,612,102
PANEL EMBOSSING MACHINE
John Lawrence Buckley and Lawrence Graham Buckley, Olympia, Wash., assignors of one-eighth to Barbara Buckley Berken, Seattle, one-eighth to Kathleen Buckley Ogle, Mercer Island, Wash., and one-eighth to Elizabeth Buckley Martin, Eugene, Oreg.
Application June 25, 1948, Serial No. 35,176
5 Claims. (Cl. 101—8)

1. In a machine for embossing material such as plywood panels, two end frames spaced apart by a distance in excess of the width of such panels, a stiffener rigidly connecting said end frames near their lower ends, an upper roller fixedly journaled in but upwardly removable from the upper portions of said end frames, a lower roller disposed parallel to and spaced at its periphery slightly below the upper roller but above said stiffener, a frame mounted in said rigidly connected end frames for vertical movement, and including two slides guided one in each of said end frames for generally vertical movement, but not against tilting, and beams rigidly interconnecting said slides, and bearing against the uprights of the end frames, a panel-supporting table supported from said vertically movable end frame, said lower roller being



journaled in the vertically movable frame, means reacting from the end frames and stiffener upwardly against said slides to adjust the spacing between said rollers, one at least of said rollers being patterned and the other constituting a cooperating pressure roller, drive means operatively and positively interconnecting said rollers for synchronous rotation in all their relatively adjusted positions, and brace means rigid with but depending vertically from said movable frame and bearing at both sides of the stiffener to maintain the same against tilting in all its vertically adjusted positions.

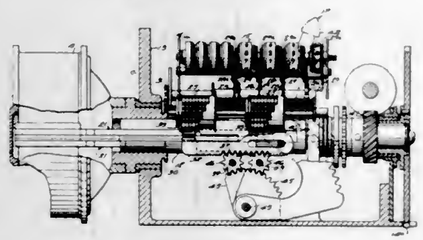
2,612,103
CARD STENCILING MACHINE WITH ADDRESS PRINTING MEANS
Alexander D'Amato, Abington, Mass.
Application March 4, 1946; Serial No. 651,828
5 Claims. (Cl. 101—49)



2. Apparatus of the class described comprising a main frame, a magazine mounted on said frame, means for feeding successive cards from said magazine, a rocking frame rockable on said main frame about a horizontal axis, an arcuate stencil carried by said rocking frame concentric with said rocking axis, means for guiding cards

fed from said magazine onto said stencil, a pair of rolls carried by said main frame adjacent to the end of said guide means and respectively above and below said stencil, means for driving said rolls at a constant speed, means for moving one said roll bodily alternately to and from engagement with the other roll to grip said stencil and a card between the rolls whereby said stencil and card are advanced through a printing stroke and then released, means for inking the lower of said rolls, spring means for returning the released stencil to its initial position, means for continuing the advance of the card after its release from said rolls, and means for driving said card feeding means and cam means in timed relation.

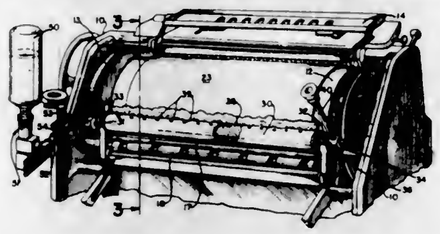
2,612,104
VALUE SETTING, PRINTING, AND REGISTERING DEVICE
Francis J. Rouan, Stamford, and Berthold Knauer, East Norwalk, Conn., assignors to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application July 12, 1947, Serial No. 760,590
3 Claims. (Cl. 101—91)



1. In a value printing and value registering machine, in combination, a printing drum and drum shaft, a type wheel in said drum, a cylindrically toothed rack comprising a fixed part of the drum shaft and rotatable therewith, said drum shaft and cylindrically toothed rack having a longitudinal peripheral recess therein, longitudinally settable toothed means, manual setting means operatively connected with the settable toothed means, a member longitudinally slidable within the longitudinal recess and rotatable with said shaft, rack teeth on said member geared to the type wheel, and rack teeth on said member meshing with the settable toothed means and normally coinciding with tooth spaces between the cylindrical rack teeth after setting is effected, whereby adjustment of the slidable rack toothed member is adapted to be effected to place a selected value type in a printing position, and whereby the rack teeth geared to the settable toothed means will move with the cylindrical rack teeth through the tooth spaces of the settable toothed means during rotation of the shaft.

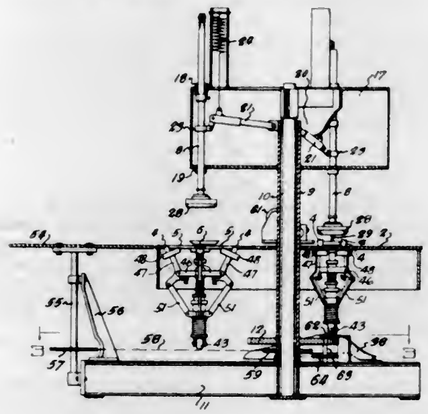
2,612,105
DUPLICATING ROLL FILM CLEANING DEVICE
Elmer F. Skinner, Danvers, Mass.
Application January 17, 1949, Serial No. 71,261
4 Claims. (Cl. 101—132.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A device for cleaning and moistening the film carried on the rotating copying roll of a duplicating machine having stripper roll supports, said device comprising, a hollow cylinder closed at its ends being mounted on said machine with its axis parallel to the axis of rotation of said roll and with its outer surface spaced from the outer surface of said film a predetermined distance, said cylinder having stub shafts positioned on the axis of said cylinder and extending from the closed ends thereof, a pair of brackets mounted on the stripper roll supports of said machine, said shafts being journalled in said brackets whereby said cylinder may be rotated about its axis, said cylinder having a narrow longitudinal slot cut therein of a length substantially coextensive with the width of said film, a flat spongelike member secured in said slot and extending radially outward from said cylinder a distance greater than said predetermined distance and also extending into



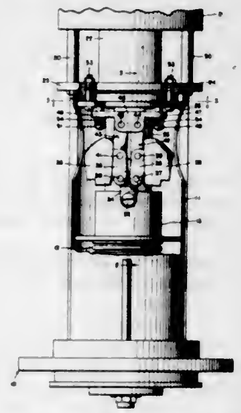
said cylinder across the diameter thereof, a perforated tube positioned within said cylinder and extending along an internal surface thereof diametrically opposite said slot, a liquid reservoir mounted on said machine, a pipe having a rotatable joint therein connecting said reservoir and said perforated tube, means for maintaining a constant liquid level within said cylinder, and a handle secured to one of said stub shafts for selectively rotating said cylinder from an angular position where the plane of said spongelike member is substantially vertical and out of contact with said film to a position where the plane of said spongelike member is substantially horizontal and extremity of the radial extension thereof is in contact with said film.

2,612,106
DECORATION STAMPING MACHINE
George E. Ryckman, Edgewood, Pa., assignor to Miller Pottery Engineering Company, Swissvale, Pa., a corporation of Pennsylvania
Application June 21, 1950, Serial No. 169,356
4 Claims. (Cl. 101—407)



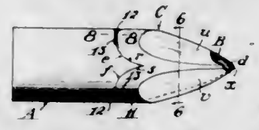
1. In a machine for stamping decorative designs on pieces of ware, a table having a smooth surface provided with a group of at least three slots radiating from a given center point on the table, a vertical spindle mounted below said center point, a spider slidably mounted on the spindle, upright levers pivotally mounted on the spider below said slots, dogs mounted on the upper ends of the levers at each slot, the upper ends of the dogs normally being disposed below said surface and equidistantly from said center point, a sleeve slidably mounted on the spindle below the spider, a coil spring encircling the spindle between the sleeve and spider, links connected at their opposite ends with the sleeve and the lower ends of said levers, means for raising the sleeve on the spindle to push the coil spring and spider upward thereon and thereby raise the dogs through said slots, and a stop on the spindle for limiting upward movement of the spider while the sleeve continues to rise and compresses the spring, whereby said links will swing the dogs inward to enable them to engage the edge of a piece of ware resting upon said surface and slide it into a central position thereon.

2,612,107
MEANS FOR PREVENTING PREMATURE FIRING OF DEPTH CHARGES
John L. Andrews, Fairfield, Ill.
Application February 13, 1946, Serial No. 647,415
5 Claims. (Cl. 102—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



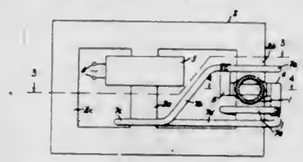
2. In a depth charge of the character disclosed, the combination of a depth charge pistol having a supporting structure and a firing member adapted to be moved relatively thereto under pressure of the surrounding water into a predetermined firing position thereby to fire the depth charge, a lever pivotally secured at one end thereof to said member, a second lever pivotally secured at one end thereof to said first named lever and at the other end to said supporting structure, said levers being arranged such that their pivotal centers are slightly out of alignment when the firing member is in an initial unmoved position whereby said levers are free to move further out of alignment as said firing member moves to said firing position, and an inertia device carried by one of said levers and arranged thereon, said inertia device being adapted to engage the other of said levers thereby to prevent the levers from being moved into a position such that their pivotal centers are in dead center alignment, said inertia device being urged into said engagement with the other of the levers in response to a shock force which urges the firing member toward the firing position thereby to prevent movement of the member thereto in response to said shock force.

2,612,108
PROJECTILE
Benjamin F. Schmidt, Los Angeles, Calif.
Application August 11, 1948, Serial No. 43,696
3 Claims. (Cl. 102—52)



1. A projectile having a cylindrical body, and a pyramidal nose on the forward end of said body having transversely curved lateral faces of convex configuration, said faces being formed with longitudinal parabolic curvatures on their outer end portions terminating in a rounded tip, there being circumferentially extending notches formed at the juncture of the cylindrical body and the pyramidal nose, a cap on said nose having its inner end margin conforming to the inner ends of the lateral faces on said nose, and lips on said margin extending into said notches.

2,612,109
ELECTROMAGNETIC PUMP
Kenneth E. Wakefield, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 20, 1950, Serial No. 169,169
4 Claims. (Cl. 103—1)

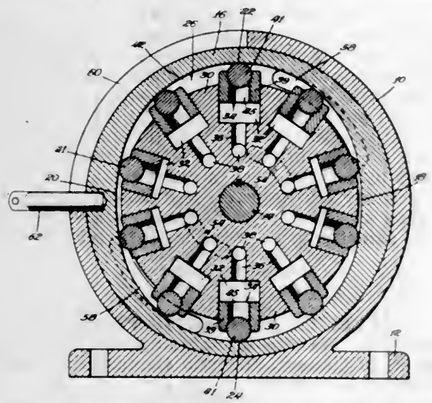


1. An electromagnetic pump for electrically conductive fluids, comprising a fluid-conducting pipe, a three-legged magnetic core, a primary winding upon one leg of said core, another leg of said core having a gap through which said pipe passes whereby magnetic flux across said gap passes transversely through the fluid in said pipe, electrodes positioned upon opposite sides of said pipe adjacent to said gap so that electric current between said electrodes passes transversely through the fluid in said pipe perpendicular to the magnetic flux across said gap, and a secondary winding connected between said electrodes, said secondary winding comprising in series at least one turn about each of two legs of said core.

2,612,110
PUMP AND MOTOR
Carl J. Delegard, Chicago, Ill.
Application January 11, 1947, Serial No. 721,534
10 Claims. (Cl. 103—4)

1. A fluid pump or motor comprising, in combination: a rotor having radial slots; pistons movable in said slots toward and away from the rotor axis; enclosing means including a smooth

peripheral wall defining a peripheral clearance space around said rotor; said clearance space being defined internally by said rotor and externally by said wall; all portions of said wall lying parallel to the rotor axis; the radial distance from the rotor axis to said wall being variable, whereby circumferential movement of said rotor and pistons causes a pumping action on the fluid in said clearance space; end closures cooperating with said peripheral wall to complete said enclosing means; said end closures fitting the ends of said rotor; said end closures having peripheral inlet and outlet ports therein; each end port opening axially directly into said clearance space; and means for circumferentially shifting the relative positions of said ports and clearance spaces into various positions; said positions including a maximum volumetric capacity position, having a port at one end registering entirely with a decreasing clearance space and functioning as



an outlet, and a port at the other end registering entirely with an increasing clearance space and functioning as an inlet; and a plurality of partial capacity positions with said outlet port registering with progressively reduced portions of said decreasing clearance space and simultaneously with progressively increasing adjacent portions of clearance space of increasing radial dimension, whereby a portion of the fluid expressed into said outlet port from said decreasing clearance space can move across in said outlet port into the adjacent increasing clearance space with minimum actual displacement, and with said inlet port at the other end simultaneously shifting into register with progressively changing portions of said increasing and decreasing clearance spaces in corresponding amounts, whereby said inlet and outlet ports in all positions permit the same amount of reverse circulation and reduced volumetric capacity.

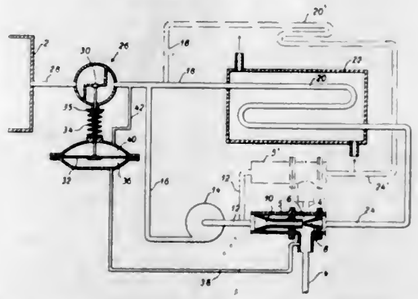
2,612,111
GAS LIFT
Granville A. Humason, Houston, Tex.
Application March 6, 1950, Serial No. 147,989
2 Claims. (Cl. 103—5)

1. The combination of, a well tubing string including, a tubular sleeve assembly and a housing therearound connected thereto and radially spaced therefrom and having a closed lower end, a hollow pumping string in said tubing string radially spaced therefrom and including a downwardly travelling valve operable in said sleeve assembly, a check valve in said travelling valve, a gas lift valve below said travelling valve and upstanding within said sleeve assembly above said housing end and controlling fluid communication into the interior of said sleeve assembly, port means through said sleeve assembly wall completing fluid communication between the annulus between pumping and tubing string and the annulus between sleeve assembly and housing, port means in said sleeve assembly adapted to complete fluid communication between said



second annulus and said gas lift valve so that gas may be injected into said first annulus to force against said gas lift valve, and a standing valve spaced in said sleeve assembly between said gas lift valve and said travelling valve and said port means in said sleeve assembly adapted to provide communication between the interior of the hollow pump string and a source of fluid being pumped.

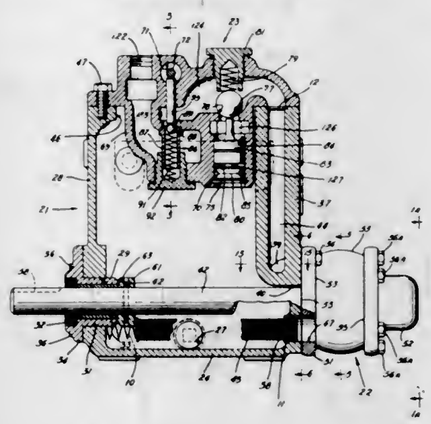
2,612,112
CONDENSATE RETURN SYSTEM
John G. Williams, Philadelphia, Pa., assignor to Cochrane Corporation, a corporation of Pennsylvania
Application November 24, 1947, Serial No. 787,815
8 Claims. (Cl. 103—5)



1. A system for the return of condensate from a plurality of sources to a boiler comprising a plurality of eductors, each having a nozzle, a suction chamber and a pressure recovery tube, the several suction chambers being connected to receive condensate from the respective sources, a pump receiving the combined discharges from the pressure recovery tubes, connections between the delivery side of the pump and said nozzles, a connection between the delivery side of the pump and the boiler, a pressure responsive valve in the last mentioned connection, and said pressure responsive valve having control connections

to the delivery side of the pump and to that eductor suction chamber having the highest pressure therein.

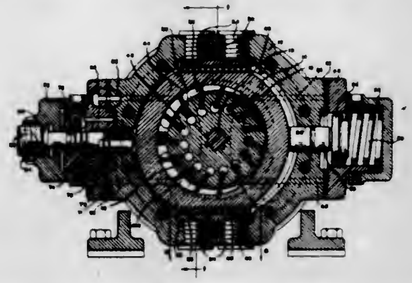
2,612,113
PUMPING UNIT
John R. Albright, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application June 14, 1946, Serial No. 676,818
17 Claims. (Cl. 103—42)



1. A pumping unit comprising a pump, a reservoir, and a control valve; means for effecting communication from said reservoir to said control valve through said pump; said control valve having a spring-closed unloading valve in the means connecting said pump to said control valve, said unloading valve being operably associated with a pressure actuated device for opening it; said control valve having a normally closed main valve connecting the pump discharge to an outlet port; said control valve having a normally closed unloading pilot valve adapted to admit pressure to said pressure actuated device upon occurrence of a predetermined pressure in said outlet port; said control valve having a normally closed reset pilot valve adapted to relieve the pressure in said pressure actuated device when opened; movable means operably associated with said main valve and said pilot valves for operating them in a predetermined sequence.

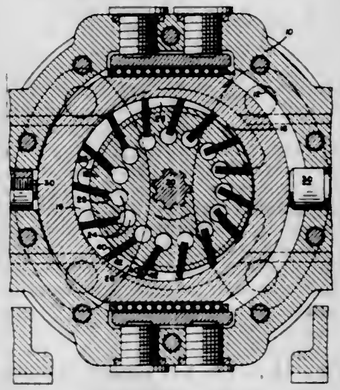
2,612,114
VANE PUMP OR MOTOR
Walter Ernst, Dayton, Ohio, assignor, by mesne assignments, to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio
Application April 6, 1948, Serial No. 19,410
4 Claims. (Cl. 103—120)

1. In a vane pump or motor; a vaned rotor, a cylinder block surrounding said rotor eccentric thereto and movable in one direction transversely of the rotor for increasing the eccentricity between the block and rotor and in the opposite direction for decreasing the said eccentricity, a spring acting on said block to urge it in said one direction, a fluid operable plunger acting on said block for urging it in the other direction, a rod connected to and extending from said plunger, a head on said rod, a first abutment adjustably mounted between said head and said plunger adapted for engaging one side of said head, and a second abutment adjustably mounted on said first abutment adapted for engaging the other side of said head whereby said head is movable



between said abutments to provide for spaced stopped positions of said cylinder block.

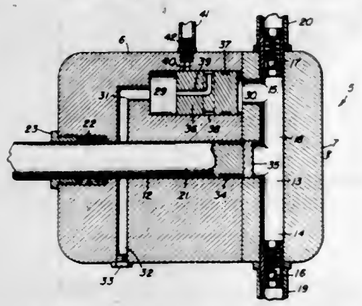
2,612,115
VANE PUMP AND VANE THEREFOR
Walter Ernst, Dayton, Ohio, assignor, by mesne assignments, to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio
Original application April 6, 1948, Serial No. 19,410. Divided and this application July 25, 1949, Serial No. 106,545
6 Claims. (Cl. 103—135)



1. In the vane pump or motor; a cylinder having a cavity, a rotor rotatable in said cavity and having a plurality of vane receiving slots therein, each said slot being enlarged at its inner end, a vane closely fitting in each of said slots, said cylinder, rotor, and vanes defining a plurality of pumping spaces, and passage means in opposite sides of said vanes adapted, as said vanes reciprocate in their respective slots, due to rotation of said rotor, for connecting first the pumping space on the leading side of each vane with the inner end of the respective slot and then the pumping chamber on the trailing side thereof with the inner end of the slot, each said passage means hydraulically connecting two spaced points on the corresponding side of the corresponding vane, on the one side of the vane one point being adjacent the outer end of the vane and the other point being spaced outwardly from the inner end of the vane, and on the other side of the vane, one point being adjacent the inner end of the vane and the other point being spaced inwardly from the outer end of the vane, the spacing of said other points relative to each other in the direction of reciprocation of the vane being not greater than the distance meas-

ured in the same direction between the periphery of the rotor and the inner end of the slot where it intersects said enlargement.

2,612,116
PUMP LUBRICATION
Franklin D. Lowther, Sr., Belle, W. Va.
Application February 17, 1949, Serial No. 77,005
1 Claim. (Cl. 103—153)



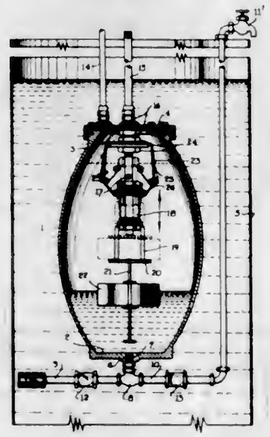
In a pump, the combination of a body provided with a cylinder bore having closed and open ends and also provided with inlet and exhaust passages communicating with the closed end of said bore, a piston reciprocable in said bore, outer packing in the open end of the bore in engagement with said piston, inner packing carried by the inner end of the piston, said body being provided with a lubricant chamber and with a pressure transmitting passage connecting one end of said chamber with said exhaust passage, a lubricant delivery duct extending from the other end of said chamber and communicating with said bore at a point between the first and second packings, a lubricant supply pipe connected to said lubricant chamber intermediate the ends of the latter and a plunger reciprocable in said chamber and having a solid face at one end actuated by pressure from said piston, said plunger having a ported face at the other end and passage means therein for establishing communication between said supply pipe and said delivery duct.

2,612,117
AUXILIARY GAS LIFT FOR OIL WELLS
Horace Justin Arnall, Clay City, Ill.
Application July 5, 1950, Serial No. 172,061
3 Claims. (Cl. 103—232)



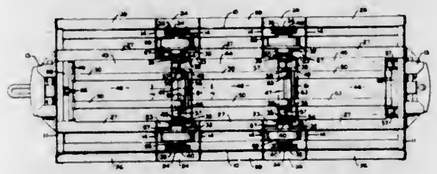
1. An auxiliary lift comprising a pipe, a shell surrounding a portion of said pipe and being spaced therefrom to provide a chamber, said shell being swedged at the ends to slidably engage the pipe and comprising an upper section and a lower section removably secured together, couplings on the ends of said pipe, a coil spring between one coupling and the corresponding end of the shell, ducts between said shell and pipe, means communicating said ducts with the interior of said pipe, a portion of said ducts projecting downwardly and having each a check valve, said shell having vents therethrough.

2,612,118
PNEUMATIC PUMP
Alexander R. Harvie, Orillia, Ontario, Canada
Application December 30, 1949, Serial No. 135,893
7 Claims. (Cl. 103—248)



1. A pneumatic pump for immersion in a body of liquid comprising a chambered casing, a pipe in communication therewith and extending from the bottom thereof into the immersing body of liquid and having valved inlet and outlet arms, a pipe-line leading into the top of said casing and in communication with a source of air pressure, a bleed pipe projecting through the top of said casing with part of the length thereof extending into the casing and closed at the bottom but provided with a lateral port and a float operated sleeve-valve mounted on said length of pipe extending into said casing and slidable over said lateral port.

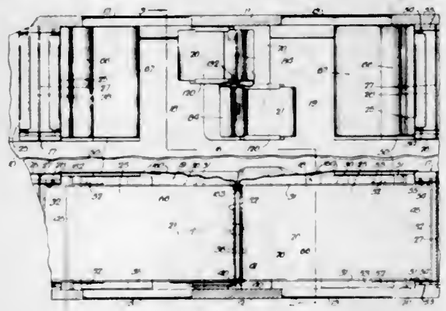
2,612,119
MINE CAR
Clarence A. Boyd, Barnesville, Ohio, assignor to The Watt Car & Wheel Company, Barnesville, Ohio, a corporation of Ohio
Application May 5, 1950, Serial No. 160,149
26 Claims. (Cl. 105—253)



1. A mine car construction comprising the combination of a pair of side sills extending from end to end of the car, a pair of end sills connecting the side sills at each end of the car, axles

extending transversely of said side sills, wheels mounted on said axles between the side sills, a plurality of vertical plates mounted edgewise on and rigidly secured to said side sills at spaced intervals, said plates being arranged in pairs adjacent fore and aft to the wheels, an angle member for each pair of plates, rigidly secured at its ends to the plates and extending parallel to a side sill on the opposite side of a wheel therefrom, wheel section side wall members, one for each pair of plates, each rigidly secured to the plates of said pair and to said angle member and sloping upwardly and outwardly from the inner edge of said angle member and the horizontal plane of the tops of said side sills to the vertical plane of the car side and extending thence vertically to the top of the car, and main side wall members rigidly secured to said plates and sloping upwardly and outwardly from the juncture of the vertical plane of the inner sides of said angle members and the horizontal plane of the bottoms of said side sills to the vertical plane of the car side and extending thence vertically to the top of the car.

2,612,120
RAILWAY SLEEPING CAR
David A. Crawford, Chicago, Ill., assignor to The Pullman Company, Chicago, Ill., a corporation of Illinois
Application January 25, 1943, Serial No. 473,451
40 Claims. (Cl. 105—316)



1. A vehicle having a space of substantially the length of a bed, upper and lower beds in said space operatively disposed in parallel overlying relationship substantially in vertical alignment and foldable in directions at right angles to positions in horizontal and vertical planes respectively, said upper bed being foldable about an axis extending longitudinally thereof and said lower bed being foldable about an axis extending laterally thereof.

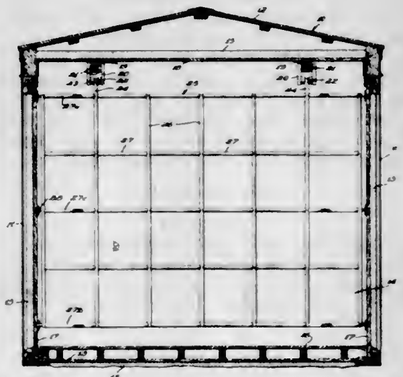
2,612,121
RAIL CAR
Otto A. Kuhler, Blauvelt, N. Y., and William E. Burnett, Montclair, N. J., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application December 30, 1947, Serial No. 794,674
18 Claims. (Cl. 105—340)

1. In a rail car, underframe end structures including a center sill and bolster means, a roof structure, a longitudinally extending medial channel shaped aisle base structure having a medial underslung portion and its ends fixed on the end structures, and aisle panel means secured to



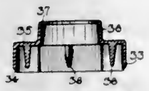
the upstanding sides of said channel shaped structure and to the roof structure.

2,612,122
CENTER DOOR BULKHEAD BRACING
Edward M. Peterson, Chicago, Ill.
Application October 27, 1948, Serial No. 56,780
1 Claim. (Cl. 105—376)



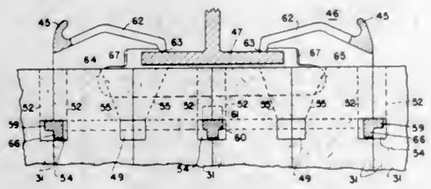
A center door bulkhead bracing in combination with a railroad car having a closed rectangular interior compartment, comprising spaced parallel mono-rails secured longitudinally along the ceiling of said compartment, carriages in rolling engagement with each of said rails for movement therealong, a flexible bracing grid comprising a plurality of vertical and transverse light metal pipe sections welded together in an equally spaced orthogonal array having a periphery substantially conforming to the transverse cross section of said compartment, at least two of said vertical pipe sections having a portion extending above the uppermost transverse pipe section for pivotal securement to said carriages to support said grid dependently from said carriages normally in a vertical plane, the longitudinal walls of said compartment having horizontally extending slots formed therein at heights corresponding to the level of the uppermost and lowermost of said transverse pipe sections, strip-like plates overlying said slots and having correspondingly spaced apertures therealong, securing pins telescopically mounted in opposite ends of said uppermost and lowermost transverse pipe sections and having handles projecting laterally out through bayonet slots in said opposite ends, said pins being insertable fully through the apertures of said plates into said slots to position said grid in any of several adjusted transverse positions along the length of the compartment and to hold said grid when the same is flexed by a load, and additional apertured plates on the longitudinal walls of said compartment positioned to receive said pins when said grid is swung to its overhead non-use position, thereby to support said grid.

2,612,123
UNITARY COOKY CUTTER
Ida Pearl W. Nord, Springfield, Mass.
Application August 14, 1947, Serial No. 768,681
4 Claims. (Cl. 107—47)



1. A unitary cookie cutter including an endless bounding cutting wall having a profile of a predetermined design, a substantially flat top integral with the mentioned bounding cutting wall, an endless hand grip wall portion of relatively smaller extent than that of the first mentioned bounding cutting wall projecting integrally upward from said top and having a profile of a different design than that of said first mentioned bounding cutting wall, and an integral top portion upon the hand grip wall portion having an open area within the outline thereof and consisting of an inwardly projecting endless flange upon said hand grip wall portion defining the open area and allowing entry of a finger from above into said hand grip wall portion to release a cookie from said cookie cutter.

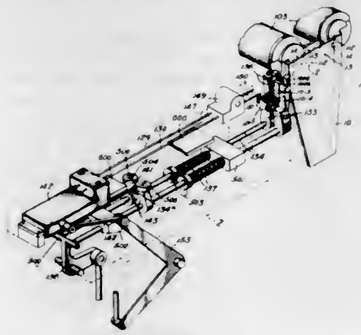
2,612,124
FURNACE ROOF STRUCTURE
Levi S. Longenecker, Mount Lebanon, Pa.
Application March 17, 1949, Serial No. 81,889
17 Claims. (Cl. 110—99)



4. A ceramic hanger member designed to support two furnace roof blocks each having two wide and two narrow sides, such hanger member comprising an elongated refractory block which in the main is square in cross section, and which adjacent the lower end of each of two of its opposed long sides is provided with a pocket having at least one open end which is located in one of the other long sides of the hanger member and on its lower end below such pockets is provided with a pair of spaced downwardly extending parallel bead-like flanges which parallel the planes of its pocketed long sides and serve as downward extensions of such long sides.

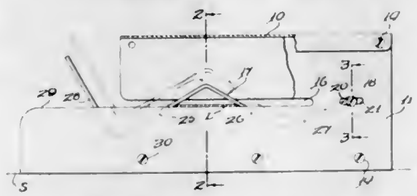
2,612,125
CONDITIONING NEEDLE FOR BAG STRINGING MACHINES
Bertie C. Golden, Richmond, Va., assignor to Millhiser Bag Company, Inc., Richmond, Va., a corporation of Virginia
Application April 5, 1950, Serial No. 154,160
7 Claims. (Cl. 112—2)

1. A bag stringing machine, including a reciprocable bag stringing needle, means for supporting a hemmed bag in stringing position with its hem in alignment with said stringing needle, means for imparting rectilinear movement to said needle to insert a drawstring in the hem of the bag, a reciprocable conditioning needle adapted to be moved toward and away from the bag in a direction in substantial alignment with or parallel to the direction of movement of the stringing needle, and arranged to be rocked in an arcuate path toward and away from the path of movement of the stringing needle, means for reciprocating the conditioning



needle toward and away from the supported bag, and means for arcuately rocking the conditioning needle into and out of alignment with the stringing needle, said conditioning needle being carried by a head mounted on a rotatable and reciprocable rod spaced from but in the same vertical plane as the stringing needle.

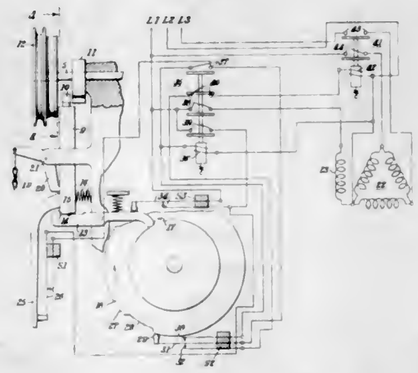
2,612,126
TIE LINING GUIDE MECHANISM
Victor M. Newman, New York, N. Y.
Application March 3, 1950, Serial No. 147,395
11 Claims. (Cl. 112—153)



11. Guiding mechanism for use in the fabric of neckties comprising a first member and a second member disposed side by side, means for reciprocatingly moving said first member relative to said second member in a substantially vertical plane, one of said members being formed with a support over which a necktie lining of varying width is adapted to be drawn, the other member being formed concavely in a vertical plane, the concavity of which reciprocates vertically in respect to said support as said necktie lining is drawn thereover, the extremities of said concavely shaped member being adapted to embrace the edges of the necktie lining after leaving said support when the necktie lining is drawn thereover.

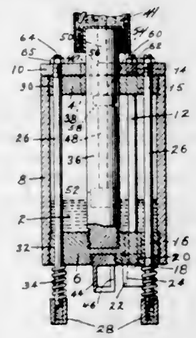
2,612,127
ELECTRICALLY CONTROLLED STOP-MOTION SYSTEM
Frank A. Hayes, Middletown, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application June 29, 1949, Serial No. 101,943
6 Claims. (Cl. 112—219)

2. In a sewing machine adapted to perform a definite series of operations, stitch forming mechanism including a reciprocatory needle, a shiftable work-holder, a cam for controlling the shifting movements of said work holder, a stop-motion lever biased to a stop position, a latch lever for holding said stop-motion lever out of said stop position, an electric motor operatively connected to said sewing machine, said motor having two separate primary windings, contactor means for



controlling the selective excitation of said windings, and separate switch means operatively responsive to the movements, respectively, of said stop motion lever, said cam, and said latch lever, for controlling the operation of said contactors to select the driving condition for said sewing machine in timed relation with said definite series of operations.

2,612,128
SOLDERING TOOL FOR TUBE SOCKETS AND TERMINAL STRIPS
George Bernard Warsaw, Los Angeles, Calif.
Application February 23, 1951, Serial No. 212,430
4 Claims. (Cl. 113—59)



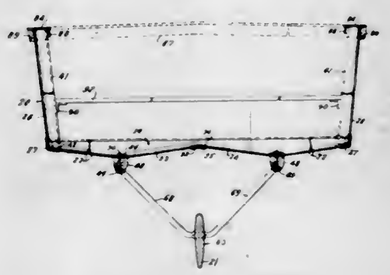
1. In a tool for soldering terminal strips and sockets, a plurality of upright rods fastened to pedestal supports at one end and to a valve rod supporter at the other end, a spring mounted on each upright rod and resting on the pedestal, a reservoir slidably mounted on said upright rods and resting on said springs, a central pilot-receiving adapter and a plurality of surrounding socket prong-receiving adapters extending from the base of said reservoir, said pilot-receiving adapter having a slot for engaging the key of a pilot prong and each socket prong-receiving adapter having a tapering solder outlet adapted to receive a socket prong for soldering same and a conical valve seat extending upwardly from said solder outlet, a plurality of valve rods connected to said valve rod supporter and projecting therefrom into said reservoir, the terminal of each valve rod being conical and adapted to rest on its respective seat when said reservoir is in the uppermost position relative to said valve rod supporter and to separate from its valve seat when said reservoir is pushed against the tension of said springs from said uppermost position, a heat-receiving copper connected to the base of said reservoir, extending from said base through said reservoir, and projecting from said reservoir, an inlet for solder to said reservoir and a guage for showing the level of solder in said reservoir.

2,612,129
DEVICE FOR VARYING CURVATURE OF BOAT KEELS
Loren P. Burch, Aberdeen, Wash.
Application October 14, 1947, Serial No. 779,769
2 Claims. (Cl. 114—0.5)



1. In a boat having a normally relatively flat keel portion, a bridge spanning the bottom of said boat in its central portion and transversely above the keel portion, the central portion of said bridge being slotted to provide two vertically spaced portions, said bridge portions having vertical axially aligned bores therethrough centrally of said bridge, a screw fixed to the keel portion and extending upwardly through said bridge bores, and a nut on the screw and within the bridge slot for varying the relation of the screw to the bridge to bow the keel upwardly or downwardly relative to its normal flat position.

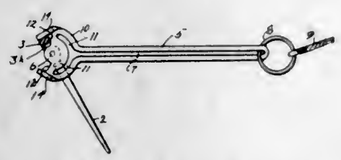
2,612,130
CONCAVE BOTTOM HULL CONSTRUCTION
Johannes H. Wendt, Williams Bay, Wis.
Application August 16, 1949, Serial No. 110,560
2 Claims. (Cl. 114—62)



1. A boat hull comprising a pair of longitudinally extending, substantially parallel keels forming bottom runners for the hull, a plurality of bottom frame members secured to and extending transversely to said keels, said transverse bottom frame members having straight, upper edges separated by a web from two pairs of downwardly extending diagonal lower edge portions forming an apex at each runner and

forming a concave obtuse angular edge portion between said runners, said web decreasing in width in successive transverse frame members as they are located successively closer to the bow and to the stern, and four plane bottom panels of sheet material secured to the lower edge portions of said transverse frame members and curved upwardly toward the bow and toward the stern forming a longitudinally curved inverted-V tunnel between the two runners, each runner being mounted on a V-bottom portion, complementary obtuse angle strips secured above and below the junctures between said panels, upwardly extending side frame members carried by each end of each transverse frame member, said transverse frame members decreasing in length successively toward the bow and toward the stern, and two plane side panels carried by said side frame members and secured thereto in curved position, curving inward toward the bow and toward the stern and joined together at the bow and joined to the adjacent bottom panels, the juncture of said side panels and the adjacent bottom panels being closed inside and outside by two complementarily shaped angle strip members, and means for closing the stern of the hull.

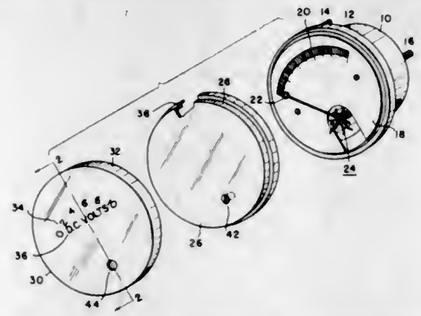
2,612,131
BOAT ANCHOR
Vincent G. Benedict, Solvay, N. Y.
Application May 15, 1950, Serial No. 161,914
2 Claims. (Cl. 114—208)



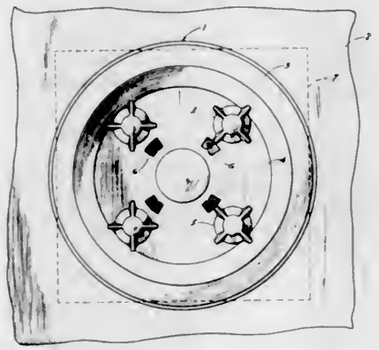
1. A boat anchor comprising a body and spaced apart flukes rigidly carried by the body, the body having a yoke intermediate said flukes and extending to the opposite side of the body to that on which the flukes extend and providing a recess alined with the space between the flukes, a shank having one end positioned in said recess and being pivotally connected to the yoke, said shank being formed with a closed slot extending lengthwise of the shank nearly the full length thereof for receiving a ring for attachment to the anchor rope, said shank having a pair of spaced apart arms extending outwardly from the shank pivot on each side of the yoke and located in the path of movement of the yoke to limit relative pivotal movement between the yoke and shank, angular skids rigid with said arms and located to overhang said arms and cover the same, and also to overhang that portion of the yoke engaging the arms.

2,612,132
INSTRUMENT COVER
William R. Triplett, Bluffton, Ohio, assignor to The Triplett Electrical Instrument Company, Bluffton, Ohio, a corporation of Ohio
Application September 15, 1950, Serial No. 185,063
10 Claims. (Cl. 116—114)

1. In an indicating instrument having a case with a dial on one face having a scale thereon and a pointer movable over the dial along the scale thereon; a transparent cover mounted on the said one face of the case and enclosing said dial and pointer, and a second transparent cover detachably mounted on said first cover and bearing indicia adapted to register with the scale on said dial.

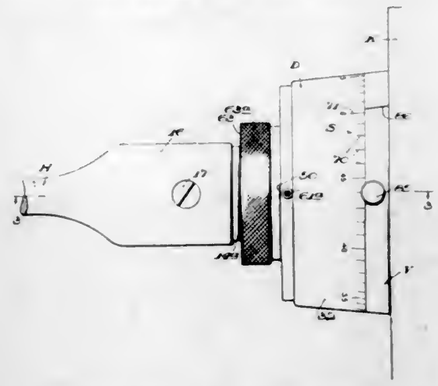


2,612,133
RANGE CLUSTER SWITCH
William Richard Crawford, Covington, Ky., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application April 25, 1950, Serial No. 157,868
2 Claims. (Cl. 116—124)



1. In combination in a cluster switch for installation in a range backguard formed to define an opening to accommodate the cluster switch, a switch mounting plate for attachment to the backguard, a switch block secured to said mounting plate, said switch block comprising a plurality of electrical switches having parallel projecting control shafts extending through the opening formed in the backguard, an opaque face obstructing the opening and surrounding the projecting control shafts, said opaque face being formed to define a transparent window adjacent each control shaft, an indicating dial secured for conjoint rotation to each of the control shafts in position to be observed through the window associated with the shaft, a light transmitting block secured to said switch mounting plate behind said indicating dials, said light transmitting block being formed to define a light receiving sloping face, a light source adjacent the sloping face, said block being formed to define a plurality of light reflecting faces behind said indicating dials in alignment with the windows of said opaque face, said reflecting surfaces transmitting light from said light source perpendicularly through said indicating dials, each of said dials defining variously colored light-transmitting sectors, one sector of each dial being opaque, whereby the light transmitted from the reflecting surfaces through the dials and windows indicates the position of said switches associated with said dials, the opaque sector of each dial obstructing the associated window when the associated switch is in its open position.

2,612,134
MICROMETER DIAL FOR MACHINE AND THE LIKE TOOLS
Peter M. Henkes and Elton L. Miottel, Racine, Wis., assignors to George Gorton Machine Co., Racine, Wis., a corporation of Wisconsin
Application September 28, 1950, Serial No. 187,210
13 Claims. (Cl. 116—133)



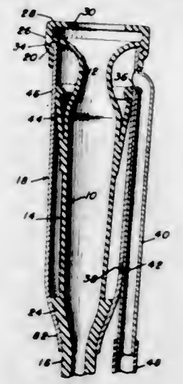
1. In combination, a rotary element; a micrometer dial unit mounted on said element, including a circular dial body concentric with the axis of rotation of said element and being rotatable on said element independently thereof; mechanism operable to connect said dial body with or disconnect the same from said rotary element; a manually operable knob member mounted on said dial body in position accessible at the forward side thereof; and said knob member having a width less than the diameter of said dial body and being connected with said mechanism for effecting operation thereof selectively to either connect said dial body with or disconnect the same from said rotary element.

2,612,135
BELL WITH ATTACHING MEANS
Daisy Iny, New York, N. Y.
Application November 14, 1950, Serial No. 195,681
3 Claims. (Cl. 116—170)



1. As a new article of manufacture, a bell of the kind comprising a slotted generally globular metal shell containing a free striker, such slot elongated in a plane which is a substantially diametral one relative to said shell, a pair of apertures in the shell one diametrically opposite to the other in a line at a substantial angle to said plane, and means adapting the shell for use as a complementary socket element relative to the head of a snap fastener element of the post type, said means including one of said apertures, said shell having integral therewith a formation incorporating an outwardly projecting neck surrounding the last-named aperture and extending from said neck a laterally curled annulus.

2,612,136
MILKING MACHINE TEAT CUP ASSEMBLY
James L. Davis, Le Roy, Minn.
Application June 5, 1950, Serial No. 166,135
2 Claims. (Cl. 119—14.52)

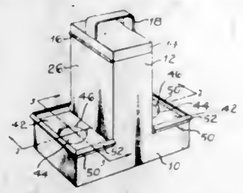


1. In a milking machine teat cup assembly, a teat cup comprising an elongated, resilient inner tubular member having upper and lower portions, an outer tubular member embracing the inner member and having a portion spaced laterally from and disposed about the upper and lower portions of said inner member to define an air space, a depending peripheral flange at the upper portion of said inner member yieldingly embracing the upper end of said outer member, the upper portion of said inner member being reduced in cross-section below said flange, said outer member having upper and lower openings therein, a conduit disposed exteriorly of said outer member and having an upper end surrounding the upper opening, said conduit having an aperture in registry with the lower opening, a skirt having a lower end integrally formed with the outer periphery of said inner member intermediate the upper and lower portions thereof, said skirt being disposed within the outer member and having an upper end engaging the inner periphery of said outer member below said upper opening and well above said lower opening, and means attached to the lower end of the conduit for evacuating air between said inner and outer members through said upper and lower openings to expand the upper and lower portions of said inner member, said upper opening being of an area greater than the area of the lower opening for expansion and contraction of the upper portion of said inner member prior to the expansion and contraction of the lower portion of said inner member.

2,612,137
SELF-FEEDER
Charles C. Fuls, near New Lebanon, Ohio
Application May 9, 1949, Serial No. 92,097
1 Claim. (Cl. 119—53)

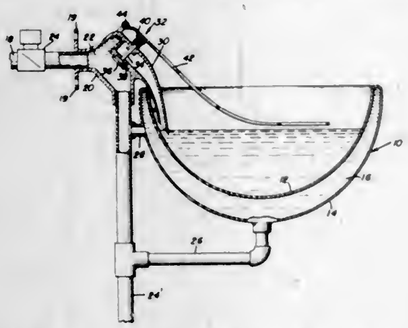
A self feeder for rabbits including a trough-like portion forming a base, a centrally disposed inverted V-shaped deflecting member mounted in the bottom of the trough and extending throughout the length thereof, a rectangular sheet metal hopper mounted above the V-shaped deflecting member, the lower side edges of the hopper being mounted in close proximity to the

legs of the inverted V, the lower edges of the hopper being bendable so as to adjust the width of the passage between the V-shaped member and the lower edges of the hopper by merely bending the lower edges of the hopper to thereby adjust the feed passage, baffle-like members mounted in the sides of the hopper in spaced relation from the bottom of the trough, said baffle-like members being provided with openings bounded by downwardly directed flange portions, said openings being sufficiently large to accommodate the nose of a rabbit but too



small to accommodate the nose and a paw of a rabbit, the edges of the trough projecting above the baffle-like members, the portions of the edges of the trough located above the baffle-like members being deflected outwardly immediately above the baffle-like members so as to form a substantially 45° angle with respect to the baffle-like members, the upper portions being deflected inwardly so as to form a substantially 90° angle with respect to the outwardly deflected portions, the two deflected portions cooperating to form substantially V-shaped retaining grooves surrounding the baffle-like members to retain any feed tossed out of the trough.

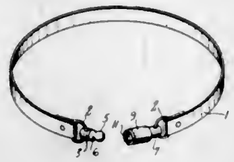
2,612,138
ANIMAL FOUNTAIN
Reinhard C. Lindemann, Lucca, N. Dak.
Application July 5, 1950, Serial No. 172,060
4 Claims. (Cl. 119—75)



1. A stock watering device comprising, in combination, a receptacle for drinking water including a heating chamber, hot and cold water lines each communicating with both the receptacle and the chamber, a normally open temperature responsive control valve interposed in the hot water line, and common means controlling communication between the receptacle and both water lines.

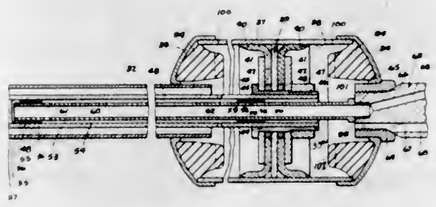
2,612,139
CAT COLLAR
William Joseph Collins, Seattle, Wash.
Application July 19, 1947, Serial No. 762,069
1 Claim. (Cl. 119—106)

A cat collar comprising a limp neck-encircling member, a ball element carried by one end of said neck-encircling member and including a knob at least substantially as wide as the greatest width of said ball element transversely of said neck-encircling member, carried by a relatively thin shank and projecting lengthwise of said neck-encircling member away from such end, and a socket element carried by the other end of said neck-encircling member, opening lengthwise of said neck-encircling member away from such end, and including at least three independently yieldable, resilient elongated fingers forming its open end, each finger being of a length substantially greater than the width of said knob transversely of said neck-encircling member and each of a length substantially greater than its width, said



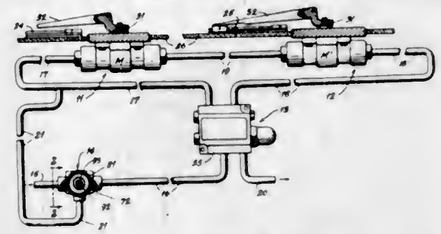
fingers having projections on their inner sides adjacent to their free ends together defining a restricted entrance to a knob-receiving socket inwardly thereof and wedgingly engageable by said knob to spring said fingers outwardly for reception of said projections behind said knob when moved into said socket, and said projections being wedgingly engageable by the back of said knob in said socket upon excessive relative tilting of said ball element and said socket element in any direction or movement of said knob outwardly of said socket effected by stress on said neck-encircling member circumferentially thereof sufficient to overcome the resilience of said fingers.

2,612,140
FLUID DRIVEN ACTUATOR FOR TOOLS
Leonidas C. Miller, Los Angeles, Calif.
Application May 4, 1946, Serial No. 667,320
13 Claims. (Cl. 121—38)



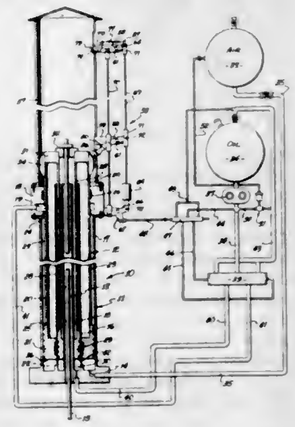
1. A fluid driven actuator comprising in combination a power cylinder having a piston longitudinally reciprocable therein, an axial entrance opening in one end of the power cylinder, a reciprocable thrust tube extending through the other end of the power cylinder and secured for movement with said piston, a stationary spear tube insertable axially through said entrance opening into the bore of the thrust tube, the spear tube being closed at its projecting end, axially spaced sealing means carried on the spear tube and contacting the bore of the thrust tube in slidable sealing relation, a first port in the wall of the spear tube between said spaced sealing means, a second port in the wall of the reciprocable thrust tube in communication with the first port, and releasable means for securing the spear tube in fluidtight relation within the entrance opening.

2,612,141
WINDSHIELD WIPER SYSTEM
Rudolph Freedman, University City, and John E. Dube, Chesterfield, Mo., assignors, by mesne assignments, to Alco Valve Co., St. Louis, Mo., a corporation of Missouri
Application October 4, 1945, Serial No. 620,317
3 Claims. (Cl. 121—158)



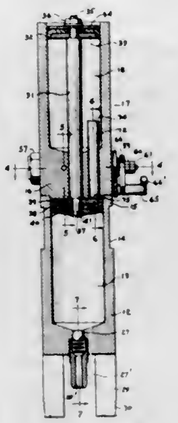
1. In a mechanism of the kind described, a fluid motor including a cylinder and a piston reciprocable therein, a fluid pressure operated reversing valve, a pair of fluid pressure work lines from the reversing valve to the opposite ends of the cylinder respectively, the reversing valve having a high pressure inlet and a low pressure outlet connectible with the pair of fluid pressure lines respectively, and means for reversing the last-named connections in response to fluid pressure conditions resulting from obstruction to travel of the piston; a main valve in the high pressure inlet for regulating high pressure flow to the reversing valve; a bypass valve for connecting the high pressure line to one of the work lines, and to bypass the reversing valve; and a parking valve in the two work lines movable from a first position to open both work lines to a second position to close the one work line interconnected with the bypass and to open the other work line to the low pressure outlet, means normally urging the parking valve toward second position, and means responsive to predetermined fluid pressure at the high pressure inlet to the reversing valve, to displace the parking valve to its first position.

2,612,142
PUMP JACK VALVE CONTROL MECHANISM
Samuel V. Smith, Long Beach, Calif.
Application April 23, 1949, Serial No. 89,251
5 Claims. (Cl. 121—164)



1. A fluid pressure operated jack mechanism comprising a vertically extending cylinder assembly, a piston assembly reciprocable vertically within said cylinder assembly, valve means for controlling the application of fluid pressure to said piston assembly, cam means carried by the upper portion of the piston assembly, a housing about the cam means and within which said cam means is vertically reciprocable, a pair of vertically spaced pivotally movable levers carried by said housing and actuable selectively by said cam means during piston travel in opposite directions, each of said levers including an outer section and an inner section pivotally movable relative to the outer section upon engagement by the cam means during its travel in one direction, a spring resisting said relative movement of the inner section of one lever, a valve actuating element pivotally mounted to the housing in substantial vertical alinement with said levers, a pair of flexible cables interconnecting said levers and said actuating element at the outer and inner sides respectively of their individual pivotal axes so that the levers and element move in unison, and means connecting said element to the valve means.

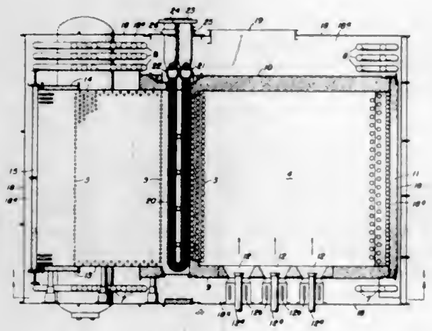
2,612,143
AIR MOTOR AND PUMP
William B. Weis, Detroit, Mich., assignor, by direct and mesne assignments, of ninety per cent to Leah Helpert and ten per cent to Robert A. Sloman, both of Detroit, Mich.
Application February 27, 1950, Serial No. 146,570
8 Claims. (Cl. 121—164)



1. A fluid motor comprising a hollow elongated housing having a central cylinder head defining chambers upon opposite sides thereof, a reciprocal rod extending through said head and carrying pistons upon opposite ends thereof within said housing, a pressure fluid source joined to said head, said head having passages therein for receiving and exhausting pressure fluid and for delivering and exhausting pressure fluid to and from each of said chambers respectively, a rockable valve having an elongated stem journaled within said head and projecting from said housing, said valve being grooved for controlling through said passages respectively the flow of pressure fluid to one chamber and exhaust from the other chamber, and adapted upon movement to reverse said pressure fluid and exhaust from one chamber to the other, a pivoted crank joined to said valve stem on the exterior of said housing for intermittently rocking said valve, a longitudinally reciprocal shaft spaced from said rod

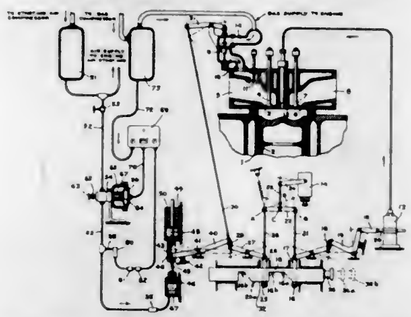
and extending through said head and outwardly therefrom with its opposite ends adapted for alternate engagement and movement with said pistons, and control means on said housing interconnecting said shaft and the free end of said crank to effect automatic intermittent control movements of said valve.

2,612,144
STEAM BOILER WITH EQUALIZED WATER LEVEL
David M. Schoenfeld, New York, N. Y., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application September 16, 1947, Serial No. 774,219
3 Claims. (Cl. 122—328)



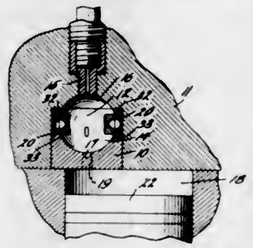
2. In a steam boiler unit, an associated furnace, burners in a first wall of the furnace projecting the fuel to be burned toward the opposite or second wall with greatest concentration in released heat adjacent thereto, a steam and water drum arranged with its axis transversely to said first and second furnace walls, a water drum below the steam drum, a bank of steam generating tubes interconnecting the drums and discharging steam and water mixture into the steam drum; boiler walls enclosing said bank of tubes and joining said first and second furnace walls for directing the flow of gases from the furnace through the bank; a further wall on the upstream side of the bank with respect to gas flow and joining said boiler walls and a bottom under the furnace; downcomer tubes for a flow of water therethrough of substantially constant density, said tubes interconnecting the ends of the steam drum and the water drum and located outside of the bank-enclosing walls, all of the downcomer tubes being of the same diameter and the number thereof adjacent said second wall being greater than that adjacent said first wall in substantially the same proportion that exists between the greater heat concentrated adjacent said second wall and the lesser heat concentrated adjacent said first wall, whereby to provide for faster outflow of water from the steam drum end that connects with the most highly heated portion of said steam generating tube bank in order substantially to equalize the water level throughout the length of said steam drum; and a casing enclosing the walls of the furnace, bank and bottom and spaced therefrom to form a conduit for flow of air for combustion from said second wall via the bottom conduit to said first wall, the spacing from said second wall being greater than the spacing from said first wall; and means in said burners for receiving said air for combustion.

2,612,145
APPARATUS FOR AUTOMATICALLY SWITCHING FROM GAS FUEL TO OIL FUEL IN DUAL FUEL INTERNAL-COMBUSTION ENGINES
George Steven, Kenmore, and Roy R. Fruehauf, Orchard Park, N. Y., assignors to Worthington Corporation, a corporation of Delaware
Application November 7, 1951, Serial No. 255,198
10 Claims. (Cl. 123—27)



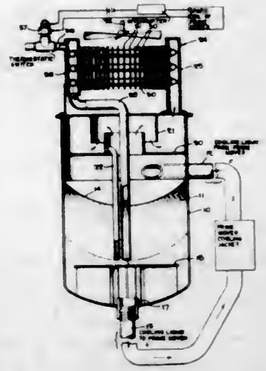
1. The combination with a dual fuel internal combustion engine operable on a mixture of fuel gas and air, fuel oil and air, or a combination of both including a combustion chamber, a gas inlet passage, a gas metering valve controlling flow of gas to said combustion chamber, a fuel oil inlet spray valve, a governor, and governor operated means for operating said gas metering valve and for controlling delivery of fuel oil to said spray valve, of governor operated means for moving said gas metering valve, means for locking said governor operated means to hold said gas metering valve in closed position, and means controlled by pressure of entering fuel gas for controlling operation of said locking means.

2,612,146
PILOT IGNITION
Richard H. Sheppard, Hanover, Pa.
Application September 24, 1946, Serial No. 698,968
2 Claims. (Cl. 123—32)



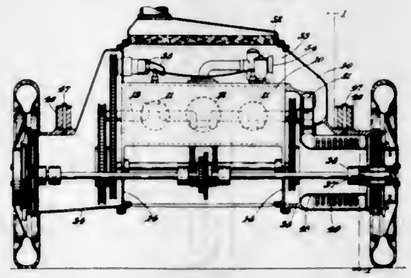
1. The combination in an internal combustion engine of a pre-combustion chamber space and a throat leading therefrom, an injector discharging into the space, and a pair of coaxial members each having therein a cavity communicating with the space through an orifice of such size as to heat fuel and air by wire-drawing effect without completely vaporizing the fuel, the common axis of the two orifices lying in a horizontal plane perpendicular to the line of discharge of the injector and at right angles to a plane containing the axis of the throat, said orifice diameters varying with the bore of the cylinder of the engine and being about .020'' for a three inch bore and a quarter inch diameter cavity, about .045'' for a four inch bore and a half inch diameter cavity, etc.

2,612,147
LOW WATER ALARM
Hans A. Bohuslav, Los Angeles, Calif., assignor to Engineering Controls, Inc., Los Angeles, Calif., a corporation of California
Application December 6, 1948, Serial No. 63,680
13 Claims. (Cl. 123—41.15)



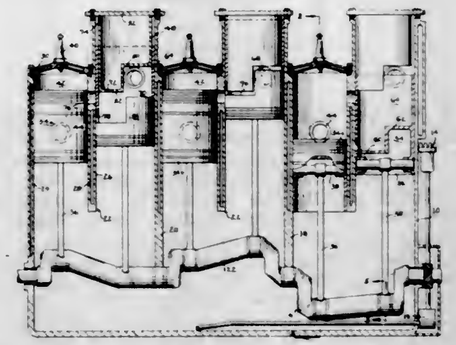
5. A low liquid control device for a chamber containing liquid and vapor, comprising a conduit communicating with the chamber below the liquid level therein, the conduit extending upwardly to a level above the liquid level in the chamber and out from the chamber, said conduit providing an unobstructed passageway from the chamber below the liquid level therein to the air and being permanently open to the air, and control means adjacent the upper end of the conduit responsive to the heat of the vapor and adapted to be actuated by the vapor whenever the liquid in the chamber falls below the lower end of the conduit and permits the vapor to pass through the conduit and contact the control means.

2,612,148
DRIVING UNIT FOR MOTOR VEHICLES
Philip Conrad Vincent, Stevenage, England, assignor to Vincent "H. R. D." Company Limited, Stevenage, England, a British company
Application July 11, 1947, Serial No. 760,336
In Great Britain November 15, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires November 15, 1963
5 Claims. (Cl. 123—41.31)



4. A driving unit comprising an internal combustion engine, an axle casing secured on each side of said engine, an axle in each casing driven from the engine shaft, a closed compartment, the walls of which form a unitary part of the body of the engine, a carburettor, and ignition system mounted in said compartment, a heat exchanger in one of said axle casings, a fan driven by said engine and having its low pressure side communicating with said compartment and its high pressure side communicating with said one axle casing, which compartment and casing are provided with inlets and outlets respectively.

2,612,149
TWO-CYCLE PUMP AND ENGINE ASSEMBLY
Joseph R. Evans, Lincoln, Nebr.
Application October 6, 1950, Serial No. 188,795
4 Claims. (Cl. 123—70)



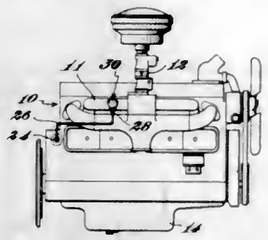
4. In an internal combustion engine, a working cylinder having a working piston operating therein, a charging cylinder, a fixed piston in one end of said charging cylinder, said fixed piston being spaced from the side wall of said charging cylinder, a movable fuel compressing piston operating in said charging cylinder between said fixed piston and to the other end of the charging cylinder, a fuel charging port leading from said charging cylinder into said working cylinder from a point in said charging cylinder between said fixed and movable pistons, a sleeve on said movable piston positioned in the space between said fixed piston and the side wall of said charging cylinder, said working piston being arranged to close said charging port in an inner position of said working piston and said sleeve being arranged to close said charging port in one position of said movable piston and having an opening arranged to register with said charging port to uncover said charging port in another position of said movable piston, a fuel inlet port leading into said charging cylinder at a point between the fixed and movable pistons therein, exhaust means for the working cylinder, and operating means connecting said working piston and said compressing piston for coordinated operation, said charging port and said fuel inlet port being longitudinally spaced from each other with respect to the length of the charging cylinder, said fixed and movable pistons having facing ends, and mated step extensions on said ends, the end of the fixed piston terminating at one side of the fuel inlet port and the step extension of the fixed piston terminating at the same side of the charging port, the end of the movable piston being arranged to approach the step extension of the fixed piston and partially close said charging port with the step extension of the movable piston approaching the end of the fixed piston and closing said fuel inlet port on the compressing stroke of said movable piston whereby fuel is compressed in said charging cylinder and charged into said working cylinder through said sleeve opening and said charging port.

2,612,150

METHOD AND APPARATUS FOR CONTROLLING THE CRANKCASE PRESSURE IN INTERNAL-COMBUSTION ENGINES

Francis Alward, Cambridge, Mass., assignor to John B. Howard, trustee, Marblehead, Mass.

Application April 1, 1950, Serial No. 153,434
8 Claims. (Cl. 123—119)



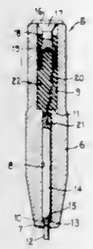
8. For use with an internal combustion engine having an intake manifold containing a butterfly valve and a crankcase acting as a reservoir for the lubricating oil supply, means for substantially sealing the interior of the crankcase from the atmosphere, conduit means interconnecting the manifold and the crankcase to reduce the pressure in the crankcase below atmospheric pressure when the engine is lightly loaded, and a constant-position valve to restrict the flow of gases through said conduit means, and means to set the valve to produce maximum vacuum in the crankcase when said butterfly valve is closed.

2,612,151

SPARK PLUG AND METHOD OF MAKING THE SAME

Harry A. Brinson and Embry D. Faatz, Sidney, N. Y., assignors to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware

Application November 27, 1946, Serial No. 712,636
9 Claims. (Cl. 123—169)



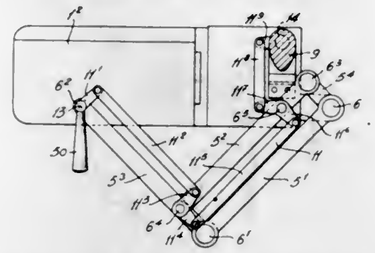
9. A center electrode assembly for a spark plug comprising an insulator having a bore therein with an internal cone-like seat adjacent one end thereof, an electrode tip having a portion projecting from said bore and a head portion engaging said seat and substantially filling the adjacent portion of said bore, a solid section of metal expanded into engagement with the walls of said bore and having the end thereof bonded to said head portion, such as by soldering, a wire connector having a bend at one end and the other end thereof embedded in said metal section, a terminal having a recess for receiving the bend at the end of said wire and an enlarged portion in said bore, and a solid mass of electrically non-conductive sealing material encompassing said enlarged portion and filling the bore around said wire.

2,612,152

DEVICE FOR PRESHAPING GRINDING DISKS

Erik Arne Angerby, Sven Gunnar Axsäter, and Sven Gerhard Blom, Nynashamn, Sweden

Application July 29, 1949, Serial No. 107,478
In Sweden August 11, 1948
3 Claims. (Cl. 125—11)



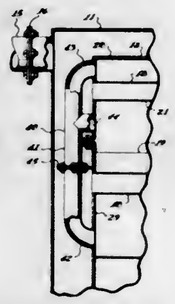
1. In a grinding wheel truing device the combination of a base structure comprising a fixed frame member having a straight guideway and a base member slidably mounted in said guideway, said base member having a template support, a pair of superposed slides mounted on said base for allowing the uppermost slide to move with relation to the base member in two directions at right angles to each other, a truing tool support mounted on said uppermost slide for oscillation about a vertical axis, a truing tool inserted in said support so as to have its operative point located on the extension of said axis, a pantograph having one pivot connected to said base member, having another pivot connected to the uppermost slide, and having at its free end a stylus carrier mounted therein to oscillate about an axis parallel to the axis of the truing tool support, a stylus in said carrier pointing towards the top of the template support, and a parallelogram linkage mounted on the pantograph and having one end connected with the stylus carrier and the other end connected with the truing tool support for transmitting the oscillations of the stylus carrier to the truing tool support.

2,612,153

HEAT EXCHANGER BAFFLE STRUCTURE FOR AIR-HEATING FURNACES

Roy F. Gibler, Cincinnati, Ohio; Madge Gibler, administratrix of said Roy F. Gibler, deceased, assignor of one-half to Grace Holmes, Cincinnati, Ohio

Application May 9, 1947, Serial No. 746,886
7 Claims. (Cl. 126—110)



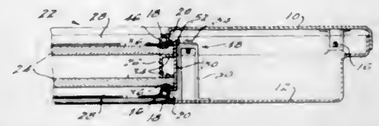
2. A heating unit comprising; an outer shell, an inner shell disposed within the outer shell in spaced relationship therewith, a plurality of hollow heat exchange baffles extending across said inner shell, a source of combustion gases located within the lower portion of the inner shell, and a manifold tube having passageways extending through the inner shell below and above the baffles and adapted to bypass a regulated volume of combustion gases around the baffles.

2,612,154

STOVE DOOR AND WINDOW UNIT

Herbert E. Mills, Detroit, Mich.

Application October 20, 1948, Serial No. 55,609
2 Claims. (Cl. 126—200)



1. A window unit for use in a stove door having spaced front and back door panels each having a window opening in alignment with the opening in the other and each of said door panels having an inwardly extending flange around the edge of the opening therein; said window unit comprising spaced, parallel glass panels, a continuous spacing member between said glass panels at the periphery thereof and providing a seal therebetween, a continuous rim having a flat portion arranged to seat on one of said glass panels on the surface thereof remote from said spacing member, a continuous channel-shaped clamping member having fixed parallel sides and arranged around the edges of said glass panels and clamping said rim against said one glass panel and said spacing member in sealing relation between said glass panels, said rim having a portion projecting away from said window unit with the outermost edge thereof disposed so as to abut the inwardly extending flange of the adjacent door panel for locating said window unit relative to said door panels when said window unit is assembled with a stove door in which it is to be used.

2,612,155

CHEMICAL HEATING PAD

Alfredo Mendez, Chicago, Ill.

Application July 9, 1949, Serial No. 103,921
1 Claim. (Cl. 126—263)



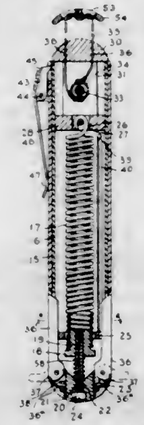
A chemical heating pad comprising an envelope formed of waterproof material, one side of said envelope being perforate, a water absorbent sheet for application to the perforate side of said envelope when wetted, a heat generating substance contained in said envelope adapted to become active when wetted, a sectional porous folding pillow freely receiving said envelope, a heat-retaining element filling said pillow, and a non-porous wrapper for said pillow.

2,612,156

SPHYGMOMANOMETER

Cecil Claud Curtis, Washington, D. C.

Application July 9, 1947, Serial No. 759,792
6 Claims. (Cl. 128—2.05)



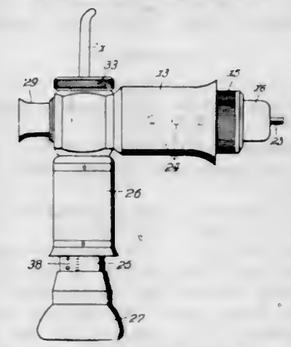
1. In a sphygmomanometer a handle portion having spring resisted movable indicating means, and a flexible loop operatively associated therewith adapted to encircle a wrist over an artery therein whereby to compress the same when pull is exerted on the loop against the force of the spring resisted movable indicating means, in combination with a winding element in the handle for the loop when retracted, having a knurled wheel with an exposed engageable portion for manipulation exteriorly of the handle.

2,612,157

APPARATUS FOR DISCRIMINATING THE SEX OF CHICKENS OF HENS AND COCKS AND THE OTHER BIRDS OR FOR INSPECTING THE INTERNAL ORGANS OF ANY BIRDS OR ANIMALS

Takeo Kizawa, Tokyo-to, Japan, assignor to Yugen-Kaisha Sanei Sangyo, Tokyo-to, Japan, a corporation of Japan

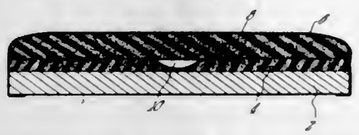
Application April 2, 1951, Serial No. 218,732
In Japan December 4, 1950
4 Claims. (Cl. 128—3)



1. Apparatus for determining the sex of chickens and other birds which comprises a main cylinder having a viewing aperture at one end, an elongated hollow pipe member closed at one end and mounted at its open end on the other end of said main cylinder for insertion into the rectum of a chicken and formed, at least in the area thereof visible through said viewing aper-

ture, of a transparent material, said area of the pipe member visible through the viewing aperture providing a face for contact with the rectum wall and through which the sexual organs of the chicken may be viewed, a light source cylinder extending laterally from said main cylinder intermediate the ends of the latter and opening into said main cylinder, means in said light source cylinder for projecting light laterally into said main cylinder, a semi-transparent reflecting plate disposed diagonally in said main cylinder in the path of the projected light to reflect the light into said pipe member, and magnifying lens means in said main cylinder in front of said viewing aperture.

2,612,158
SACROILIAC BLOCK
Victor Manley, Longmeadow, Mass.
Application December 20, 1950, Serial No. 201,758
2 Claims. (Cl. 128—69)

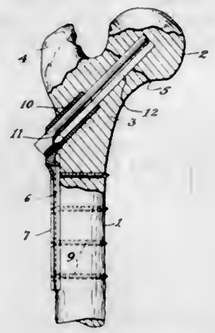


1. An anatomical support for underlying and supporting the back region of a patient comprising in combination, an elongated base member having upper and lower flat faces and opposite side and end angularly related edges, an elongated intermediate member having a lower face parallel to and in contiguous relation with the upper face of the base and provided with an upper flat face, an elongated upper member having a lower flat face parallel to and in contiguous relation with the upper face of the intermediate member and provided with an upper face, the side and end edges of the intermediate and upper members being in alignment with corresponding edges of the base member, and a flexible covering enclosing the upper face of the upper member and side and end edges of the said members having edge portions secured to said base, said base member being formed from relatively rigid material and said intermediate member being formed from material relatively more yieldable and resilient than that of said base member and said upper member being formed from material relatively more resilient and yieldable than that of said intermediate member.

2,612,159
TROCHANTERIC PLATE FOR BONE SURGERY
John G. Collison, Greensboro, N. C.; Marie B. Collison administratrix of said John G. Collison, deceased
Application March 1, 1949, Serial No. 79,026
11 Claims. (Cl. 128—92)

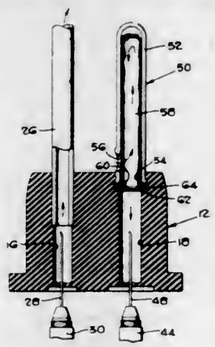
1. In bone surgery, a trochanteric plate, said trochanteric plate comprising a shank portion and a surgical implement supporting portion, said portions being rigidly connected, said shank portion adapted to be secured to the shaft of the femur, said implement supporting portion having substantial length and adapted to extend into the bone, and said implement supporting portion having a passage therethrough to receive a bone surgery implement.

4. In bone surgery, a trochanteric plate, said trochanteric plate comprising a shank portion and a tubuar portion, said portions being rigidly connected, the two portions permanently arranged at approximately the angle that the neck of the femur bears to the shaft of the femur, and



the tubular portion having substantial length and the hollow of the tubular portion receiving and reenforcing a bone surgery implement.

2,612,160
INTRAVENOUS SOLUTION DISPENSING APPARATUS
Courtland H. Barr, Los Angeles, Calif.
Application August 11, 1949, Serial No. 109,652
8 Claims. (Cl. 128—214)

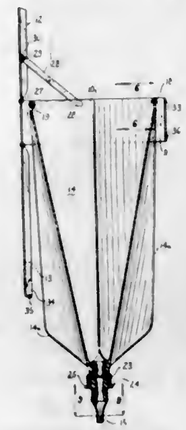


1. In a device of the class described: a stopper, said stopper being provided with a bore; and a filter across said bore, said filter including an elongated filtering element and a tubing cap therefor, said filtering element and said cap being inserted into said bore of said stopper and being carried thereby, said tubing cap being orificed adjacent said stopper for the admission of solution through said orifice into said cap and through said bore and said tubing cap being closed except at said orifice to exclude solution or other fluid from passage into said cap and through said bore except through said orifice.

2,612,161
SYRINGE
Charles T. Manville, Woodbury, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application January 16, 1948, Serial No. 2,651
3 Claims. (Cl. 128—227)

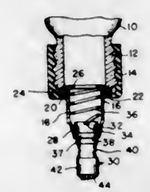
1. A device such as described, comprising a rectangular box body, a foldable flexible bag supported within the box body so that it may depend from the lower end of the box body, cover means for the box body at the lower part thereof, hinged

upper cover means for the box body, and folding brace means between the box body and said upper cover means for holding the box body in



right-angular relation to said upper cover means and preventing dislocation of said box body when the device is supported from a supporting wall.

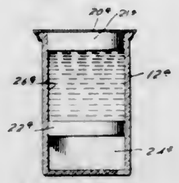
2,612,162
SCARIFYING APPLICATOR
Aaron W. Barry, Grosse Pointe Farms, Mich.
Application May 15, 1950, Serial No. 161,957
6 Claims. (Cl. 128—253)



1. A scarifying applicator comprising a container, an apertured cap therefor, a sleeve extending through said cap and having a radially extending flange to be clamped against the container by said cap, said sleeve having an annular spring seat at its inner end and an inwardly tapered outer end, a headed plunger in said sleeve, the head of said plunger seating against the tapered end of said sleeve, the inner end of said plunger having a slot therein, a compression spring on said seat having one end received in said slot, said plunger having a generally cylindrical body normally closing the outer end of said sleeve, and a reduced portion intermediate its ends having clearance with the outer end of said sleeve upon motion of said plunger inwardly of said sleeve, and scarifying teeth on the outer end of said plunger.

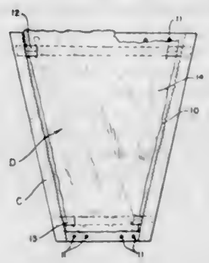
2,612,163
CONTAINER FOR HYPODERMIC PREPARATIONS
Wilson Y. Norman, Amarillo, Tex.
Application October 9, 1950, Serial No. 189,222
2 Claims. (Cl. 128—272)

1. A receptacle for maintaining a medicinal agent and solvent therefor separate and sterile until ready for use, comprising a vial having a solid bottom at one end and a mouth opening at its other end, the vial being internally cylindrical and of unvarying inside diameter, the diameter of the mouth being the same as the inside diameter of the vial, a moisture proof septum dividing the vial between its ends to form a lower chamber, a stopper disk fitting tightly into the mouth opening and spaced from the



septum to form an upper chamber, said septum and disk being of a soft material for penetration by a hypodermic needle and having their peripheries tightly, frictionally engaging the vial wall, one of said chambers containing a medicinal agent and the other chamber containing a solvent therefor, and means separate and separable from the stopper and overlying the vial mouth for preventing accidental escape of the stopper.

2,612,164
DIAPER
Dorothy L. Miller, Casper, Wyo., assignor of one-fourth to Stanton A. Miller, one-fourth to Sally Jourgensen, and one-fourth to John L. Jourgensen, all of Casper, Wyo.
Application October 3, 1949, Serial No. 119,237
2 Claims. (Cl. 128—287)

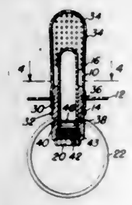


1. A diaper of absorbent material having the shape of an isosceles trapezoid and for use with a diaper cover made from a sheet of material having the shape of an isosceles trapezoid and being provided with permanently attached cross holding straps at its ends, said diaper at its corners being provided with T-shaped cuts with the leg portion of each cut extending inwardly from the side edge of the diaper so that the diaper can be parted along the leg portion and inserted beneath a strap and thereby cause the strap to extend through the cross portion of the T-shaped cut.

2,612,165
MEDICATED PACIFIER
Joseph J. Szuderski, Glendale, N. Y.
Application November 27, 1950, Serial No. 197,717
9 Claims. (Cl. 128—360)

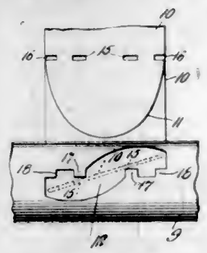
1. A pacifier comprising a nipple, a porous container removably disposed in said nipple and

adapted to hold a substance for consumption by a child, and means securing said container in said



nipple and holding said container spaced from said nipple.

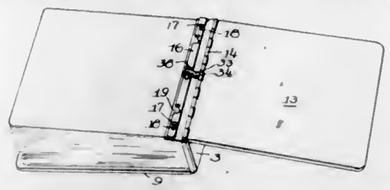
2,612,166
END LOCK FOR RINGS OF MECHANICAL BINDINGS
Clarence D. Trussell, Turnwood, N. Y.
Original application August 6, 1949, Serial No. 108,903. Divided and this application January 29, 1952, Serial No. 268,820
2 Claims. (Cl. 129—1)



1. A mechanical binding comprising a strip of sheet material rolled into generally tubular formation and having spaced, longitudinally extending slots along one edge portion and spaced, substantially parallel ring forming strips projecting from the opposite edge portion in position to have the free ends of the same enter said slots, said slots being shaped to enforce bending of said ring forming strips to enter the same and companion interlocking elements on the edges of said slots and on the end portions of the ring forming strips located to interlock on restoration of said ring forming strips to normal shape following the bending of the same required to enter said slots, and including diagonally opposite projections on the edges of said slots positioned to impart transverse twist to said ring forming strips and the latter having openings therethrough to accommodate said projections.

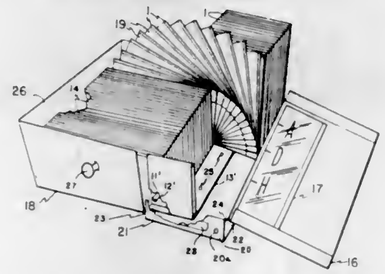
2,612,167
LOOSE-LEAF BINDER
Edward F. Buenger, River Forest, and Fred D. Wedge, Oak Park, Ill., assignors to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application November 15, 1949, Serial No. 127,412
1 Claim. (Cl. 129—8)

In a loose leaf binder, a pair of telescoping back sections, a post carrying plate hinged to one of said back sections, a plurality of sheet retaining posts rigidly secured to said plate, a flange rigidly secured to said other back section, a transfer bar positioned adjacent said flange, posts rigidly secured to said transfer bar and engaging said first mentioned posts in telescoping relationship, a lock slide mounted on said flange and operable to lock said transfer bar in position or to release it from locked position, another post rigidly secured to said hinged plate, said last mentioned post having a stud at its free end, said stud projecting through aligned apertures in said flange and said lock slide, a latch pivotally



mounted on said flange, said latch engaging said stud to prevent relative movement of said back sections, and a lug projecting from said lock slide, said lug engaging said latch to move it out of engagement with said stud upon movement of said lock slide to open position.

2,612,168
CARD SYSTEM
Nathan I. Stark, West Orange, N. J., assignor, by mesne assignments, to Fandex, Inc., New York, N. Y., a corporation of New York
Application April 30, 1946, Serial No. 666,099
9 Claims. (Cl. 129—16.5)

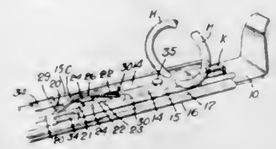


1. An index system comprising a plurality of individual substantially flat index members positioned as a group in face to face arrangement, said members having a common axis of rotation transverse to their planes and about which any of said members may be turned in its plane, the body of each of said members having a projection at one side thereof from a lower portion thereof and a projection at the other side thereof from an upper portion thereof, the last mentioned projection of one member being disposed in the path of turning movement of the first mentioned projection of an adjacent member so that a series of said members may be fanned out by turning one of said members about said axis.

2,612,169
SLIDABLY ACTUATED LOOSE-LEAF BINDER
Samuel Segal, New York, N. Y., assignor to Wilson-Jones Co., Chicago, Ill., a corporation of Massachusetts
Application June 14, 1948, Serial No. 32,809
2 Claims. (Cl. 129—24)

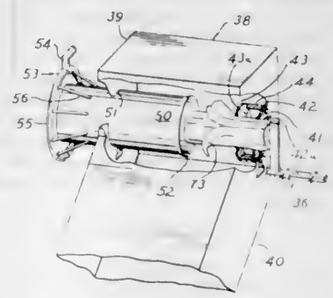
1. In a loose leaf binder, a casing, a plate slidably mounted in said casing, a pair of complementary leaves pivotally mounted in said casing above said plate, complementary and separable ring sections mounted on said leaves, an opening in said leaves, a loop projecting upwardly from said plate through said opening, said loop having one end inclined to cooperate with the edge of

said leaves adjacent one end of said opening to tilt the inner edges of said leaves upwardly upon slidable movement of said plate in one direction, a lug extending inwardly of said opening intermediate the ends of said loop, said lug engaging the opposite end of said loop to limit slidable movement of said plate in said one direction, said



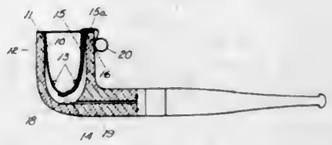
lug engaging said first mentioned end of said loop to tilt the inner edges of said leaves downwardly upon slidable movement of said plate in the opposite direction, and an intermediate retaining portion on said loop cooperating with said lug to prevent accidental sliding movement of said plate relative to said leaves.

2,612,170
CORN HUSKING MACHINE
Edmond R. Dudley, Jr., San Jose, Calif.
Application September 21, 1948, Serial No. 50,383
3 Claims. (Cl. 130—5)



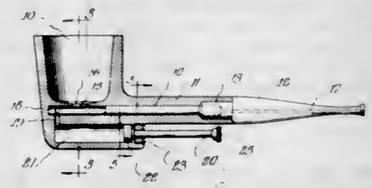
1. A corn husking machine comprising a tube having a diameter substantially no greater than an ear of corn, means for introducing fluid under pressure into said tube and creating a unidirectional, axial flow of fluid therethrough and means for moving ears of corn through said tube in axial alignment therewith and countercurrent to the flow of fluid therethrough.

2,612,171
TOBACCO PIPE RECEPTOR
George N. Polymeros, St. Paul, Minn., assignor of one-half to Julius Loipersbeck, St. Paul, Minn.
Application July 16, 1948, Serial No. 39,092
3 Claims. (Cl. 131—184)



2. In a device of the character described, a thin hollow body member and a rotating member, said body member having tapered sides, an open top and a closed bottom, an outwardly extending annular collar at the open top adapted to fit over the rim of a tobacco pipe bowl, a fillet joining said collar and said body member and concentrically positioned said body member in said pipe bowl and forming a circular chamber intermediate said body member and the inner walls of the pipe bowl and forming a chamber in the bottom of the pipe bowl below the bottom of the body member, said body member having perforations adjacent said bottom and a centrally located opening in said bottom for reception of said rotating member, said perforations providing direct draught connection between said body member and the bottom of said pipe bowl, an opening extending through said annular collar and providing communication between the outside atmosphere and said intermediate chamber in said pipe bowl, said body member having a channel formed in its side to cooperate with said collar opening to provide full use thereof, said rotating member having a bended portion over the edge of the pipe bowl with a flat portion fitting tightly over said collar opening and retainably pivoting about said opening in the bottom of said body member and adapted to serve as a damper over said opening to the atmosphere in said collar, and said rotating member having its intermediate portion shaped to conform closely to the interior of said body member being also adapted to serve as a cleaner of the interior of said body member, said rotating member having means for providing a handle to conveniently grip same for removing or replacing the body member and also holding the body member firmly in place while still permitting easy movement of said rotating member.

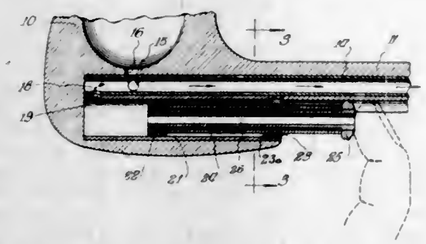
2,612,172
SMOKING PIPE
Peter Gustafson, Chicago, Ill.
Application July 20, 1948, Serial No. 39,619
4 Claims. (Cl. 131—184)



4. A smoking pipe comprising, a tobacco bowl and an integral stem wherein an opening in said bowl communicates with a bore in said stem, a channeled mouthpiece rotatably mounted in the end of said stem bore, a tube secured to said mouthpiece and extending into said stem bore to a point beyond said bowl opening, said tube having circumferentially and axially-spaced orifice and air port, said orifice being adapted to be positioned for either registering with said bowl opening or being sealed by the bottom of said bowl for alternate rotated positions of said tube, said air port being located outwardly from said opening, a pump cylinder integral with said bowl with its axis disposed parallel with said stem and located under said pipe bowl, said pump cylinder being formed with an air passage adapted to register with said air port when said tube orifice is sealed by the bottom of said bowl, a solid piston in said cylinder adapted to force air through said tube, bore and said mouthpiece channel when said air passage and air port are in registration, a slide rod having one of its ends connected to said piston and extending through

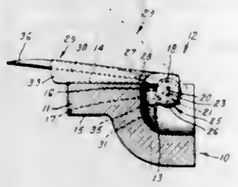
an end of said cylinder, and a knurled knob on the other end of said rod and located outside of said cylinder.

2,612,173
SMOKING PIPE
Peter Gustafson, Chicago, Ill.
Application July 20, 1948, Serial No. 39,620
3 Claims. (Cl. 131—184)



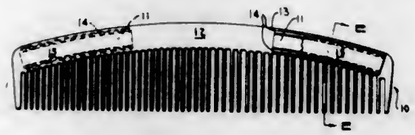
2. A smoking pipe comprising, a tobacco bowl and an integral stem wherein an opening in said bowl communicates with a bore in said stem, a channeled mouthpiece rotatable on the end of said stem, a tube secured to said mouthpiece and extending into said stem bore to a point beyond said bowl opening, said tube having a circumferentially and axially spaced orifice and air port, said orifice being positioned for either registering with said bowl opening or being sealed by the bottom portion of the bowl when rotated out of registry with the opening therein, a pump cylinder below said bowl having an air passage registrable with said tube air port when said tube orifice is sealed by the bottom portion of said bowl, a piston in said cylinder, a tubular piston rod extending outwardly through the head of said cylinder and terminating in a manually operable head through which the bore in said piston rod communicates with the ambient atmosphere, said bore being adapted to be closed by a finger of the operator during the inward stroke of the piston for forcing a portion of the air in said cylinder and rod outwardly through the bore in said stem and the channel in said mouthpiece when said air port and air passage are in registration.

2,612,174
SAFETY ATTACHMENT FOR SMOKERS' ASH RECEPTACLES
Frederick A. Nichols, Stratford, and Donald H. Vero, Bridgeport, Conn.
Application April 28, 1951, Serial No. 223,474
5 Claims. (Cl. 131—240)



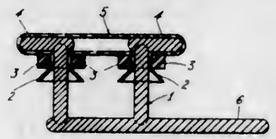
5. In a safety attachment for cigarette smokers' ash receptacles, a tray having an elongated cigarette supporting surface, a base member, pivot means carried by said base member pivotally mounting said tray for movement about a horizontal axis between a substantially horizontal cigarette supporting position and an inclined cigarette dumping position, a heat responsive cylindrical spiral comprising a strip of bimetal having its axis parallel to the pivot axis of said tray and having the upper portion of its peripheral outer surface substantially in the plane of and adjacent said cigarette supporting surface, said spiral having a leg constituting an extension from one end of said spiral and extending in lifting relation to said tray, said pivot means constituting a support means for said spiral and an upwardly disposed edge portion in substantial proximity to said plane of said cigarette supporting surface, said spiral being loosely supported solely on and about said pivot member with only the upper portion of the spirals peripheral inner surface in contact therewith along said upwardly disposed edge, said spiral having opposite ends thereof free of connection with any portion of the tray.

2,612,175
COMPARTMENT COMB
William J. Martino, Garden City, Mich.
Application March 12, 1947, Serial No. 734,026
1 Claim. (Cl. 132—79)



In a compartment comb, the combination of a body portion having a compartment therein and adjacent channels on opposite sides of said compartment, a detachable cover for said compartment, and flanges depending from said cover and adapted to engage the channels in said comb body portion in sliding engagement therewith to permit sliding of said cover relative to said comb body portion, said flanges having chamfered ends to facilitate slidable removal of said cover from said body portion.

2,612,176
TOOTH CLEANER
Sam Women Sam, Chicago, Ill.
Application October 30, 1951, Serial No. 253,928
7 Claims. (Cl. 132—91)



1. A tooth cleaner comprising a short, slender, thin, supple, stretchable, elastic, soft tube with closed ends and a longitudinally extending narrow opening, said tube being adapted to serve as a substitute for dental floss.

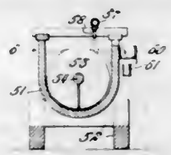
2,612,177
DENTAL FLOSS
Jerome Footer, Washington, D. C.
Application August 9, 1950, Serial No. 178,405
1 Claim. (Cl. 132—93)

An element for oral use that comprises a length of dental cleaning floss, one end of said dental floss being impregnated with a thermoplastic material suitable for oral use to form a tip, said tip being tapered throughout its length to a blunt point and having a maximum diameter substantially greater than the diameter of said dental cleaning floss, and said tip and appended dental



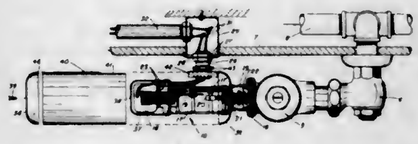
cleaning floss capable of being directly inserted between the occlusal surfaces of adjacent teeth.

2,612,178
APPARATUS FOR WASHING DISCRETE UNITS OF SOLID MATERIALS
Bronson C. Skinner, Dunedin, Fla., assignor to Clinton Foods Inc., New York, N. Y., a corporation of Delaware
Application January 7, 1948, Serial No. 1,045
1 Claim. (Cl. 134—132)



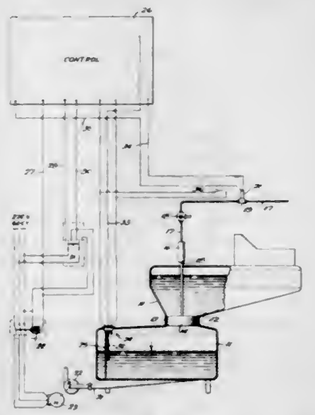
Apparatus for washing discrete units of solid materials comprising an elongated trough of U-cross section, a conveyor screw in said trough substantially fully occupying the bottom portion thereof, said conveyor screw being mounted for rotation, spaced spray nozzles mounted along the trough for discharge of water thereinto, an overflow channel along one side of said trough determining the water level of said trough and adapted to receive overflow water and floating debris, and a discharge opening at one end of said trough reaching to the bottom thereof adapted to discharge water and washed solid materials heavier than water moved along by said conveyor screw, said other end of the trough being adapted to receive discrete units of solid materials heavier than water for movement along the trough by said conveyor screw, said conveyor screw and water sprays being adapted to effect a washing turbulence in the trough so that material placed in the trough is washed thereby as it is moved along to said discharge opening by said conveyor screw and floatable debris overflows into said overflow channel.

2,612,179
FLUSH VALVE OPERATING ARRANGEMENT
Jacques J. Filliung, Chicago, Ill., assignor to Sloan Valve Company, Chicago, Ill., a corporation of Illinois
Application June 9, 1949, Serial No. 98,075
5 Claims. (Cl. 137—360)



1. In a mounting arrangement for an electric device for periodically operating a flush valve, both being spaced apart and mounted closely adjacent a wall surface, said flush valve having a water supply pipe and said electric device a short rigid wire enclosing conduit extending through openings in said wall surface, coupling; means for rigidly supporting said electric device at one end from said flush valve, an enclosing casing for said electric device, means at the other end of said electric device from said flush valve for fastening said casing to said electric device, said electric wire enclosing conduit extending from the wall and fastened to said casing at a point adjacent the supporting end of said electric device, said casing having a slotted portion engaged by said wire enclosing conduit whereby said casing is adapted to be removed laterally from said electric device when its fastening means is removed to expose said electric device, said slotted portion being elongated to allow for variations in the relative spacing of said flush valve pipe and said wire enclosing conduit.

2,612,180
WEIGH CAN DUMPING CONTROL
Vergil Schwarzkopf, La Grange, Ill., assignor to The Lathrop-Paulson Company, Chicago, Ill., a corporation of Illinois
Application March 8, 1950, Serial No. 148,338
6 Claims. (Cl. 137—390)

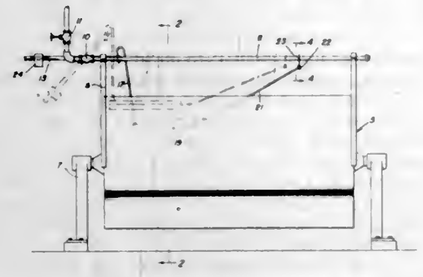


1. In a weigh can having an outlet communicating with a pump-equipped receiving tank and a power-actuated dump valve controlling said outlet, a hand-operated valve for releasing power for opening said dump valve, said receiving tank being provided with electrically-operated means having depending electrodes of different elevations adapted to be actuated by the liquid level for starting and stopping the pump, a third electrode depending within said tank at an elevation between said first-mentioned electrodes, a circuit for said third electrode, adapted to be closed by engagement thereof with liquid in said tank, a solenoid in said circuit, and means actuated by said solenoid for shutting off the power for said power-actuated dump valve.

2,612,181
AUTOMATIC LIQUID SUPPLY REGULATOR FOR MILK DRIERS
Hugo H. Muckala, Bagley, Minn.
Application November 3, 1947, Serial No. 783,683
1 Claim. (Cl. 137—447)

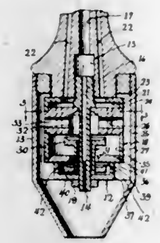
In a float-controlled valve, a rocker arm for the valve, an elongated hollow float, and hangers for each end of the float, one of said hangers being suspended from a supporting structure and the

other of said hangers being hollow and having a downturned upper end connected to the rocker



arm, said last named hanger comprising a breather tube for the float.

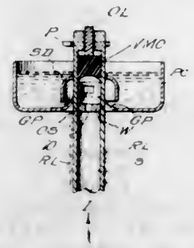
2,612,182
VALVE FOR DELIVERING CARBONATED BEVERAGES
Norman L. Luster, Chicago, Ill.
Application April 19, 1946, Serial No. 663,299
7 Claims. (Cl. 137—505)



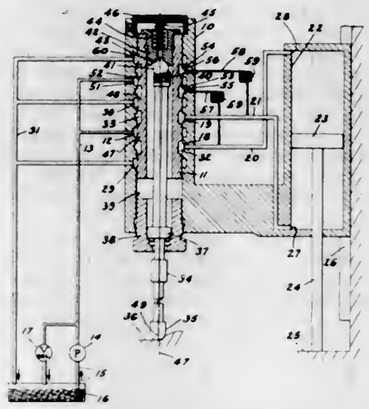
1. In a delivery means for carbonated fluid, a chamber, a substantially unrestricted passageway leading from one wall of said chamber, another chamber, an unrestricted passageway connecting said chambers together and passing through an opposite wall of said first mentioned chamber from said one wall, a double valve having a valve member in each of said chambers and each cooperating with an unrestricted passageway leading from the respective chamber and the walls through which said passageways extend to form thin delivery spaces, delivering the carbonated fluid through said passageways in the form of thin film-like sprays, said second mentioned chamber having a restricted passageway leading therefrom, to build up pressure in said second mentioned chamber to act on said valve in said second mentioned chamber and move said valves toward the walls through which said passageways extend, and conduit means delivering carbonated fluid to said first mentioned chamber.

2,612,183
VALVE CONSTRUCTION
Jesse D. Langdon, Long Beach, Calif.
Application November 25, 1944, Serial No. 565,129
9 Claims. (Cl. 137—592)

6. A pressure converter cup for combination with a valve of the kind described, said cup having a bottom with a central portion extended upwardly of the bottom thereof and forming attaching means surrounding an inlet tube provided for said valve, said cup having the open end thereof facing upwardly, said bottom being below outlet means provided for said valve, said cup being adapted to receive a flow of liquid from said outlet means, outflow means from said cup perforated thru the upwardly extended portion thereof, whereby liquid is permitted to flow by gravity from said cup and form a stream flowing downwardly of and following said inlet tube.

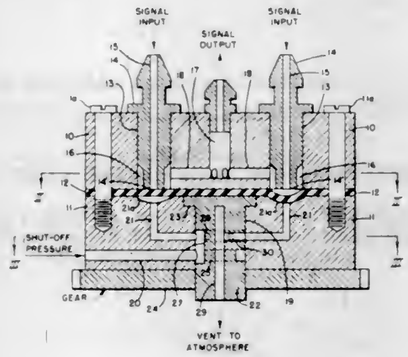


2,612,184
SENSITIVE HYDRAULIC TRACER VALVE
Wendell I. Evans, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application January 14, 1949, Serial No. 70,998
7 Claims. (Cl. 137—619)



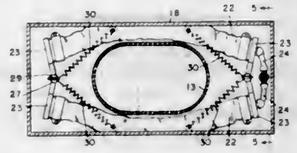
1. In a sensitive control valve mechanism, the combination of a housing having a first and a second pressure port, a valve member movable in said housing having independent means for normally simultaneously closing each of said ports, said means being jointly movable with said valve member, one of said means being responsive to incipient movement of the valve member for variably opening the first pressure port, the other means being responsive to sustained movement of the valve member for sequentially variably opening the second port, said valve housing having a first and a second sequentially arranged outlet port for receiving respectively the flow from said first and second pressure ports, a delivery line connected to the outlet port receiving flow from the second pressure port and fluid resistance means connecting the other outlet port to said delivery line, and a tracer carried by the housing and operatively coupled with said valve member continuously to determine the movement thereof with respect to the housing.

2,612,185
PNEUMATIC SWITCH
Albert Allen, Sharon, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application March 14, 1951, Serial No. 215,612
1 Claim. (Cl. 137—635)



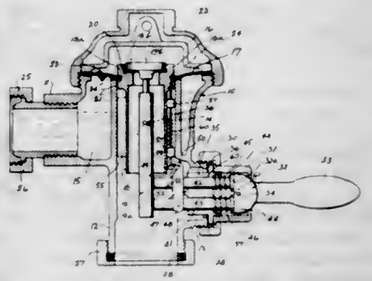
A pneumatic switching device comprising a pair of bodies and a diaphragm separating said bodies, one of said bodies containing a plurality of pneumatic signal input passages extending to said diaphragm and closable thereby, and a common output passage connected to each of said input passages when not shut off by said diaphragm, and the other of said bodies containing shut-off pressure passages to said diaphragm adjacent each of said inlet passages, and a rotatable selector shaft having a vent to atmosphere and a passage positioned by the rotation of said selector shaft to connect said vent passage with one of said shut-off passages, said one of said shut-off passages being thus selected not to receive said shut-off pressure.

2,612,186
FLUID PRESSURE OPERATED FLOW CONTROL VALVE
William B. Bolger, Cleveland, Ohio
Application May 20, 1947, Serial No. 749,314
4 Claims. (Cl. 137—657)



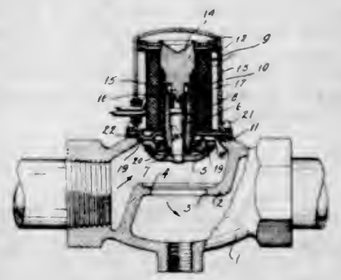
1. A flow control device comprising a flexible wall tube collapsible transversely of its axis, a rigid confining housing for the tube and having a wall spaced laterally therefrom, a flexible inflatable tube interposed between the wall and the collapsible tube and having its axis in a plane lying at an abrupt angle to the axis of the collapsible tube and at least one end of the inflatable tube being secured in the housing for floating movement relative to the housing and to the collapsible tube in a direction generally endwise of the flexible inflatable tube.

2,612,187
WATER METERING FLUSH VALVE ASSEMBLY
Pat Romanelli and Charles Miller, New York, N. Y.
Application August 10, 1950, Serial No. 178,610
6 Claims. (Cl. 137—667)



1. A flush valve assembly comprising a housing having a water inlet and a water outlet, a resilient diaphragm normally closing off said water outlet, manual operating means adapted to regulate water pressure within said housing in order to move said diaphragm and enable water to flow from said water inlet to said water outlet, valve means regulated by said manual operating means, said diaphragm having an unobstructed opening therein adapted to equalize water pressure within the casing in order to return said diaphragm to its closed position, said diaphragm also having a by-pass opening which is normally closed by said valve means and which is opened when said valve means is actuated, said manual operating means being adapted to be brought to a first operative position and a second operative position, and connecting means coupled to said operating means and movable into contact with said valve means for actuation thereof when said operating means is brought to its first operative position, and out of contact with said valve means when said operating means is brought to its second operative position.

2,612,188
SOLENOID-OPERATED GAS VALVE
Lawrence M. Persons, Chesterfield, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware
Application April 11, 1947, Serial No. 740,786
2 Claims. (Cl. 137—719)

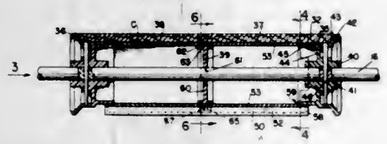


1. An alternating current electromagnet comprising, a solenoid having means providing a fixed magnetic path incomplete at one axial end and having an apertured magnetic end plate thereat,

a core axially movable within said solenoid and through said apertured end plate, a magnetic armature extending radially from said core and arranged to axially engage said end plate when energized, a shading ring on and encircling said core adjacent said armature, and means for confining the engagement between said armature and said end plate to three limited areas radially outward from said core.

2. In a magnetically operated valve comprising, a casing having a partition extending thereacross, said partition having an apertured horizontal portion defining a valve seat, a movable valve member engageable with said seat to close said aperture and biased toward such engagement, a solenoid mounted upon said casing with a lowermost fixed magnetic member extending parallel to and spaced from the apertured portion of said partition, a valve stem of magnetic material constituting the core of said solenoid and extending through the center of said magnetic member for movement relative thereto, and a magnetic head extending radially from said stem between said magnetic member and said partition and positioned on said stem so as to engage said magnetic member radially outward of said stem when the solenoid is energized, the combination of a shading ring on said stem immediately above said head, and means for confining the engagement between said head and said fixed magnetic member to three limited areas radially outward of the shading ring.

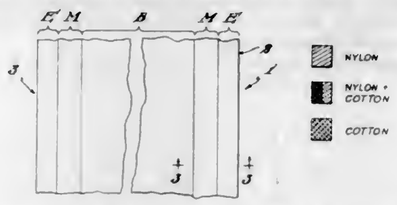
2,612,189
PATTERN CHAIN CYLINDER FOR DOBBY LOOMS
William A. Blanchard, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application January 10, 1950, Serial No. 137,816
4 Claims. (Cl. 139—330)



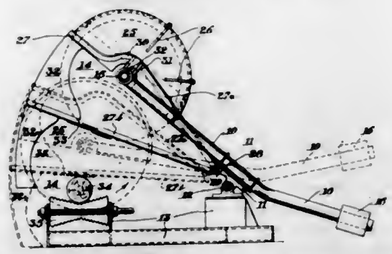
4. In a fabricated dobby pattern cylinder for a dobby pattern chain comprising linked bars, a shaft extending axially of the cylinder, a hollow cylinder member having outwardly opening chain bar receiving slots and having chain bar driving teeth formed with inwardly opening slots, spaced end members secured to the shaft each formed with teeth entering the inwardly opening slots at the adjacent end of the cylinder member and establishing positive driving connection between the cylinder member and the end members when the shaft is rotated.

2,612,190
PAPER MILL FELT
Edward H. Hall, Fitchburg, Mass.
Application January 27, 1949, Serial No. 73,076
10 Claims. (Cl. 139—426)

1. A paper mill drying felt comprising interwoven warps and wefts, the warps being of substantially the same diameter throughout the width of the felt, those warps which are included in each selvage structure being of pure filament nylon, and those warps which are located inwardly of each selvage edge and within a distance of the order of three inches therefrom being ply yarns, including cotton and nylon twisted together.

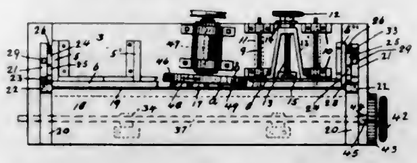


2,612,191
SWINGING POWER-OPERATED CIRCULAR SAW
James M. Paton, Fort William, Ontario, Canada
Application November 21, 1949, Serial No. 128,606
In Canada September 2, 1949
5 Claims. (Cl. 143—46)



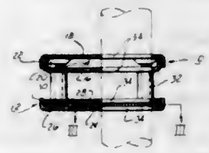
1. A power operated circular saw comprising, a saw swing arm, means for pivotally supporting the saw swing arm, a circular saw blade operatively mounted on the saw swing arm, an article engaging swing arm pivotally fixed to the saw swing arm at a point at a substantial distance from the point of pivoting of the saw swing arm but between said point of pivoting and the axis of rotation of the circular saw blade, a set of teeth located on the article engaging swing arm so that the teeth engage the part of an article first to be cut by the saw during operation of the saw and tend to urge said article away from the point of pivoting the saw swing arm, and means for rotating the circular saw blade in a direction such that the edge of the circular saw blade engaging the article to be sawed moves toward the point of pivoting of the saw swing arm.

2,612,192
MACHINE FOR PLANING AND JOINTING
John C. Ryan, Toronto, Ontario, Canada
Application October 31, 1947, Serial No. 783,384
3 Claims. (Cl. 144—3)



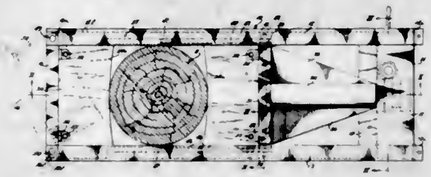
1. A machine of the class described comprising a table provided with a gap in its front edge; a cutter-head; a rotatable shaft journalled at an acute angle to said front edge on which said cutter-head is secured with its axis of rotation above said table; a plurality of pairs of rough and finishing cutters held in said head with their cutting ends ground parallel to the said front edge, the finishing cutter of each pair functioning in said gap when making its cut; a gauge adjoining and parallel to the front edge of said table to regulate the depth of cut made in the work; fixed means to maintain the desired path of movement of the work while it is being processed comprising a bench adjoining and parallel to the front edge of said table, and a guide member carried by said fixed bench in alignment therewith and located immediately in front of said cutter-head.

2,612,193
COMBINED GAUGE AND GROOVING DEVICE FOR DOWEL PINS AND THE LIKE
Karl A. Springer, Philadelphia, Pa.
Application September 13, 1949, Serial No. 115,414
2 Claims. (Cl. 144—12)



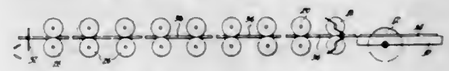
1. A portable, combined dowel gauging and grooving device including a first plate having a toothed opening of a fixed predetermined size formed therein, a second plate having a guide opening formed therein of the same size as said toothed opening, there being a through opening in one of said plates and a tapped hole in the other of said plates, a spacer between said plates and a screw passing through said opening and engaging said tapped hole for securing said plates together with said guide opening in registration with said toothed opening.

2,612,194
TREE FELLING DEVICE
Robert P. Ingraham, San Antonio, Tex., and Joseph W. Phillips, Chicago, and Sam E. Ganis, Evanston, Ill., assignors, by mesne assignments, of two-thirds to said Robert P. Ingraham
Application March 24, 1948, Serial No. 16,806
5 Claims. (Cl. 144—34)



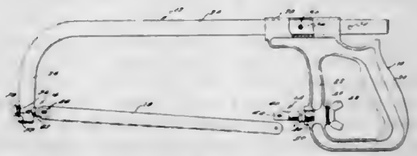
3. In a power driven cutting device including a frame for surrounding an object to be cut, a backing blade and an opposed movable blade, means for driving said movable blade comprising a power transmitting screw for moving said movable blade in either direction, a worm gear for driving said screw, a driven shaft mounted for axially shiftable movement, a worm fixedly mounted on said shaft for axial and rotational movement therewith and meshing with said worm gear, opposed compression springs on said shaft contacting opposite ends of said worm, a driving shaft, gears on said driving shaft, gears freely rotatable on said driven shaft meshing directly and through a reversing gear with said first gears, and a clutch rotatable with said shaft and axially shiftable thereon to driving engagement with either of said gears and to a neutral non-driving position on said driven shaft, the compressive strength of said springs being such that when there is excessive resistance to movement of said movable blade in either direction said worm gear will tend to stop, said worm will unscrew itself on said worm gear compressing one of said springs and causing sufficient axial movement of said driven shaft affixed to said worm to disengage said clutch thereon from driving relationship with the gear with which the same was previously engaged.

2,612,195
PROCESS OF MAKING IMPROVED DOWEL STOCK AND DOWEL PINS
Peter A. Rahaim, Gardner Mass.
Application August 11, 1947, Serial No. 767,886
3 Claims. (Cl. 144—309)



1. Process for producing compressed dowels or the like from flat stock comprising the steps of dividing the stock into strips of square section, making the said strips circular in cross section, and gradually compressing the strips evenly from end to end by a longitudinal rolling action.

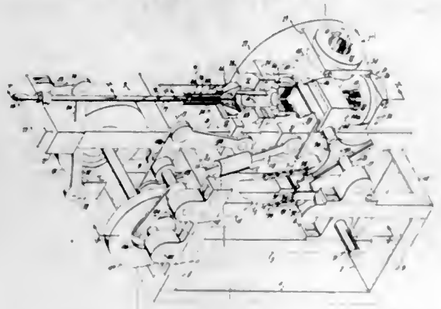
2,612,196
HACK SAW
Harvey H. Bouschor, Detroit, Mich.
Application March 4, 1948, Serial No. 13,002
2 Claims. (Cl. 145—34)



1. A hack saw having elongated, longitudinally spaced blade-supporting elements, a rigid handle member carrying one of said blade-supporting elements, a frame member having a main body portion carried by said handle and an inherently flexible terminal portion carrying the other of said blade-supporting elements, the inner terminal portions of said elements having flat, aligned surfaces adapted to seat against one side of a saw blade, pins projecting from said surfaces adapted to extend through the conventional mounting holes of the blade, said one blade-supporting element having an integral square portion and said handle being provided with an external milled slot forming a guideway which snugly but slidably receives said square portion, said other element having a substantially square head at the outer end thereof and the terminal portion of said frame being provided with an external milled slot extending entirely therethrough from one side to the other thereof, said slot defining a guideway which seats and snugly receives said head, the blade-supporting element carried by said handle being normally disposed parallel to the position of said saw blade on the saw, and the element carried by said frame being normally inclined downwardly away from the back of the saw and toward the handle thereof, and adjustable means for moving said blade-

supporting elements longitudinally relative to each other, said blade-supporting elements and said frame being so constructed and arranged that the blade-supporting elements are brought substantially into alignment by flexure of the resilient terminal portion of said frame when the adjustable means is actuated to tauten a blade attached to such blade-supporting elements, and said flexible terminal portion being capable of flexing an amount necessary to bring said blade-supporting elements substantially into alignment without exceeding its elastic limit.

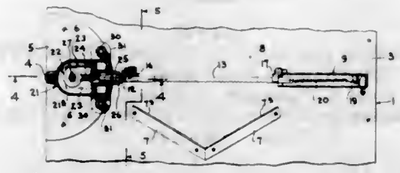
2,612,197
FRUIT PITTER
Vincent C. Giordano, Morgan Hill, Calif.
Application August 1, 1949, Serial No. 107,860
3 Claims. (Cl. 146—17)



1. A fruit pitter comprising: a frame; a turret head journalled in said frame; a fruit holding chuck fixed to and extending outwardly from one face of said turret head, said chuck including a cylindrical collar having an axis transverse to and intersecting the axis of said turret head; a plurality of jaws disposed star fashion in said collar and having tapered ends extending through said collar, each of said jaws being mounted on pins extending radially through said collar with positive clearance and said jaws being biased outwardly by springs surrounding said pins; a pitting station located adjacent the path of travel of said chuck; a pair of coaxial, axially spaced conical jaw actuators mounted on said frame at said pitting station and straddling the path of travel of said chuck; a tubular pit ejector mounted on said frame coaxially with said jaw actuators and arranged to reciprocate therethrough; a Geneva wheel mounted on said frame in association with said turret head for periodically rotating said turret head to periodically position said chuck at said pitting station; first cam controlled drive means mounted on said frame for advancing said conical jaw actuators toward each other and against the tapered ends of the clutch jaws to thereby close said jaws and for then retracting said actuators to permit said jaws to open under the influence of said springs; and second cam controlled drive means mounted on said frame in association with said tubular ejector for advancing said ejector through said chuck and then retracting said ejector.

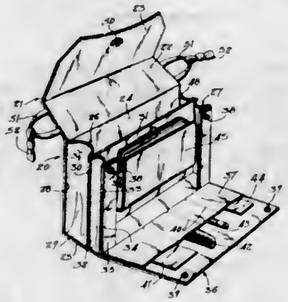
2,612,198
MACHINE FOR SLICING STATIONARILY POSITIONED BAKERY PRODUCTS
Kurt Schlegel, New York, N. Y.
Application June 15, 1948, Serial No. 33,038
6 Claims. (Cl. 146—139)

2. A machine for slicing stationarily-positioned bakery products comprising a horizontally-positioned supporting table along which a bakery product may be fed in a horizontal path, an operating frame member having a plurality of spaced horizontally-disposed knives mounted therein, means for mounting said frame to move in a fan-shaped arcuate path over said supporting table from a position adjacent to one side of said table to the opposite side thereof, said mounting means including a vertically-disposed pivot on said supporting table, a stop member having a height limited to the space between said table and the lowermost knife in said oper-



ating frame member to permit said frame and knives in said movement to pass over the same, said stop member being adapted to contact with the bottom portion of one side of the bakery product, a carrier unit for mounting said operating frame composed of an eccentric mounting casing, an eccentric in said casing, said casing having a pivot bearing for mounting on said vertical pivot, and a motor supported on said casing in endwise position and having its shaft extending vertically through said casing to operate said eccentric.

2,612,199
SNAP FRONT HANDBAG
Abraham Schocket, Bronx, N. Y.
Application December 28, 1948, Serial No. 67,629
4 Claims. (Cl. 150—34)



1. A handbag body comprising a sheet of relatively stiff material providing a rear wall and a front wall spaced by a bottom wall, said front and rear walls being integral with said bottom wall, laterally spaced gussets secured along their rear and bottom edges to the side edges of said rear and bottom walls, vertically extended plural-ply post-like members continuing from the front edges of said gussets and extended laterally inward to have their widths extend parallel to the plane of said rear wall, and means releasably securing the top outer corners of said front wall to the top ends of said post-like members.

2,612,200
COIN PURSE AND THE LIKE
David H. June, Bronx, N. Y.
Application March 10, 1950, Serial No. 148,800
3 Claims. (Cl. 150—35)

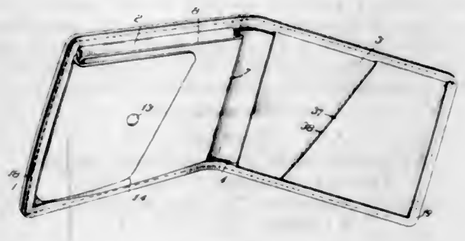
3. A purse comprising a pair of rigid one-piece, like, oppositely disposed hollow shells, hinge

means connecting said shells together to be pivoted to a closed position, a pocket for bills secured in one of said shells, the edge thereof adjacent the other shell being left free to provide an opening through which coins can be inserted beneath said pocket, a cigarette case positioned in



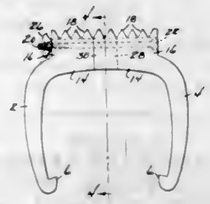
the other of said shells and having one end open to receive cigarettes, and a pair of tabs extended laterally from the closed end of said case and secured to the said other shell whereby said case may be pivoted at its open end out of the said other shell.

2,612,201
SECRET PULL-OUT BILLFOLD WALLET
William Lipp, New York N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a corporation of New York
Application April 28, 1950, Serial No. 158,701
6 Claims. (Cl. 150—36)



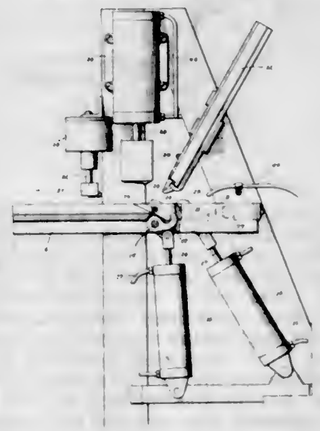
1. A wallet provided with a secret pocket extending longitudinally for the full extent of the wallet and closed at the top, bottom and one end and open at the other end, a removable pull-out billfold arranged within the secret pocket of the wallet, an exteriorly arranged flap connected at its inner end to the billfold and foldable over the wallet, and means for detachably securing the flap to the wallet whereby the flap substantially conceals the secret pocket of the wallet and retains the billfold therein.

2,612,202
TRACTION DEVICE
George L. Bumbaugh, Oaklawn, Ill.
Application February 2, 1949, Serial No. 74,181
3 Claims. (Cl. 152—225)



1. A traction device for a vehicle wheel having a rim with a tire thereon comprising a pair of detachable curved sections to fit together over the tire, inwardly extending hook portions at the inner ends of the sections to engage the wheel rim to hold the device on the wheel, relatively thick bodies at the outer ends of the sections to fit together in end to end relationship over the tire, thin tongues at the outer ends of the bodies extending throughout the full radial thickness thereof and overlapping over the outer tread portion of the tire, the bodies having aligned bores therein of a length several times their diameter, and a rigid tension fastening extending through the bores to draw the sections together and to hold them against tilting relative to each other.

2,612,203
BUCKLE LINK APPLYING MACHINE FOR BALE STRAPS
Luverne R. Smida, Stockton, Calif., assignor to W. W. Young, an individual doing business under the fictitious name and style of W. W. Young Co., Stockton, Calif.
Application July 16, 1951, Serial No. 236,938
8 Claims. (Cl. 153—1)

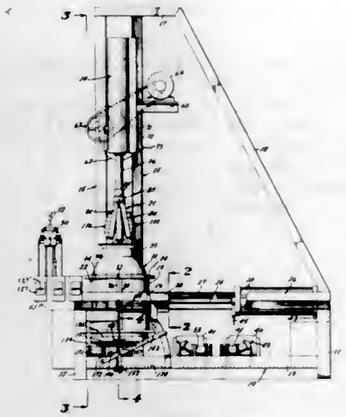


1. A link applying machine for metallic bale straps, comprising a support for a strap, means to releasably clamp the strap to the support, the latter having an opening exposing an end portion of the clamped strap, a pair of longitudinally spaced bending heads, means mounting the bending heads adjacent and normally clear of said end portion of the strap but for swinging motion in the opening to engage and bend back corresponding parts of said end portion of the strap, a pair of longitudinally spaced normally retracted bending anvils related to the bending heads, means mounting the anvils for projection across the opening for cooperation with the related bending heads whereby the latter when swung engage and bend back said corresponding parts of the strap about said anvils, means to swing the bending heads and project related anvils in timed relation to form a first bend and a second bend in succession, and means to apply a link onto the second bend prior to completion thereof.

2,612,204
CAN STRAIGHTENER
John L. Rickhoff and Edward A. Rickhoff, Corona, Calif.
Application October 1, 1948, Serial No. 52,208
12 Claims. (Cl. 153—32)

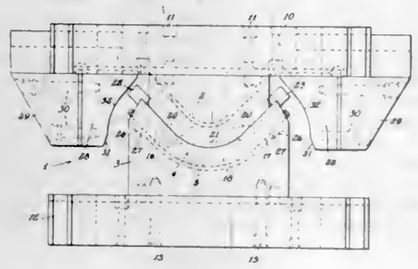
1. A straightening machine for open top cans having a rounded wall comprising a bed frame having thereon a clamp adapted to secure the

can on the frame, an expansible straightening member adapted to be inserted inside the can having a collapsed condition smaller than the open top of the can, said member comprising roller means having a position of potential contact with the rounded wall when the straightening member is expanded, a vertically movable head stock supporting said straightening member above the clamp, and vertically disposed operators supporting the straightening member on the head stock having separate relatively



movable points of attachment to the straightening member and having vertical movement relative to each other, one of said operators having a fixed vertical engagement with the head stock and the other being vertically movable with respect thereto, said head stock being adapted to lower the straightening member by means of said operators to an expanded condition and to lift the straightening member to a removed collapsed condition, and means adapted to effect relative rotation between the can and the straightening member.

2,612,205
APPARATUS FOR FORMING TUBULAR L'S
Carl Frederick Seibert, Bradford, Pa., assignor to Dresser Industries, Inc., Cleveland, Ohio a corporation of Pennsylvania
Application August 31, 1946, Serial No. 694,351
10 Claims. (Cl. 153—48)



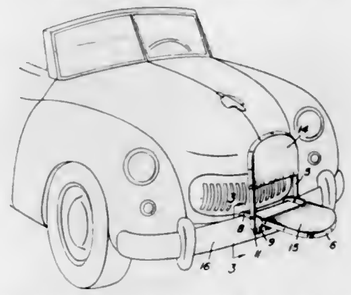
1. In apparatus for forming a tubular L from a blank of tubular stock, the combination of a flexible mandrel insertable in the blank, the mandrel having ends projecting beyond the ends of the blank, opposed die members having cooperating concave and convex die cavities corresponding in contour to the formed L, means retaining the blank in position formed in the cavity of the concave die member, and mandrel positioning means movable with the convex die member adapted to operatively engage the ends of the mandrel.

2,612,206
SUPPORTING TRUSS MEMBERS FOR CYCLE SADDLES
Harold E. Kalter, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application March 12, 1949, Serial No. 81,129
3 Claims. (Cl. 155—5.22)



1. In a saddle construction, reach members having rearwardly extending end portions, a pair of spring members secured to the cantle portion of the said saddle, a pair of loop members, each loop member having an eye portion and a pair of planular elongated overlapped portions, each loop member adapted to be secured to a separate end of the reach member and having its eye portion embracing a portion of each spring member, the rearwardly extending end portions of said reach member having a generally V-shaped notch disposed therein, whereby each of the said loop members is limited in its forward movement.

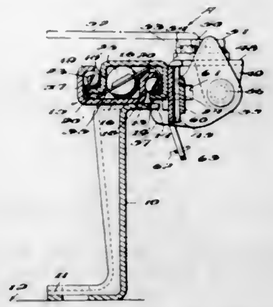
2,612,207
BUMPER SEAT FOR AUTOMOBILES
James D. Branson, Casper, Wyo.
Application November 22, 1949, Serial No. 128,776
4 Claims. (Cl. 155—11)



1. A foldable seat comprising U-shaped back and seat frames, said seat frame including a transverse member means pivotally connecting the ends of the frames to each other for folding one against the other, hooks at the pivoted ends of the seat frame adapted for engaging the upstanding edge of a supporting structure, and abutments carried by said transverse member of the seat frame adapted for bearing against the front of the supporting structure to support the seat in open position thereon.

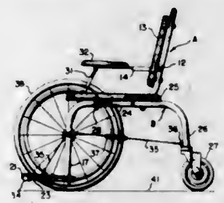
2,612,208
SEAT ADJUSTER ASSEMBLY
Albert J. Rhodes, Pontiac, Mich., assignor to American Forging and Socket Company, Pontiac, Mich., a corporation of Michigan
Application April 13, 1950, Serial No. 155,730
8 Claims. (Cl. 155—14)

6. In an adjustable support for a seat or the like, a track having a bottom wall and a pair of laterally spaced upwardly projecting side walls forming a channel therebetween, a laterally projecting race forming flange on each side wall and extending in the same direction whereby one flange overhangs said bottom wall and the other flange projects laterally outwardly from said channel, a carriage shaped similarly to said track and inverted with its race forming flanges underhanging and aligned with the corresponding race forming flanges of said track to provide outer races, said bottom walls being vertically aligned to provide a middle race between said outer races, outer balls confined in said outer races, a middle ball confined in said middle race,



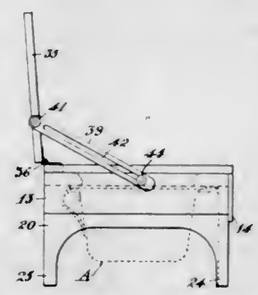
and a ball retainer and spacer having portions embracing said outer balls and said middle ball and holding said outer balls and said inner ball spaced from each other and in alignment across said track and carriage, said ball retainer and spacer being supportably mounted on the balls and maintained thereby out of contact with said track and said carriage, said flanges being right angular with respect to said side walls, with the side walls and bottom walls parallel whereby the cross sections of the outer races and the middle race are square with each race affording pairs of right angularly related surfaces with which the balls are in vertical and horizontal line contact, respectively.

2,612,209
INVALID CHAIR HAVING FOOTREST BRAKING MEANS
Leroy R. Alldredge, Kensington, and Erick O. Schonstedt, Takoma Park, Md.
Application July 15, 1948, Serial No. 38,776
7 Claims. (Cl. 155—30)



5. A wheel chair comprising, in combination, a U-shaped member having leg portions depended substantially vertically from the bight portion thereof, downwardly extended leg extremities, and horizontal leg extensions interposed intermediate said depended leg portions and said downwardly extended extremities, two wheels journaled to said downwardly extended leg extremities respectively, a backrest secured to said depended leg portions, a horizontally disposed U-shaped member having the legs thereof disposed parallel with and inwardly of said horizontal leg extensions, a pivotal connection between said horizontal leg extensions and said legs of the horizontally disposed U-shaped member, the legs of said horizontally disposed U-shaped member having depending extensions, casters secured to the lower extremities of said depending extensions respectively, a seat secured to the legs of said horizontally disposed U-shaped member, the portion of said seat in the vicinity of said pivotal connection being constructed sufficiently narrow to be inwardly disposed of said horizontal leg extensions, said seat being broadened in the vicinity of the bight portion of said horizontally disposed U-shaped member so as to bear against said horizontal extensions when the wheel chair is unfolded, a footboard pivotally connected to said downwardly extended extremities, and a cable connected to said footboard at the forward end thereof, said cable extending above said footboard pivotal connection to at least one of said depended extensions and secured thereto, whereby a downward force on said footboard sufficient to cause pivotal movement of said U-shaped frame members causes the footboard to be lowered pivotally into braking engagement with the floor.

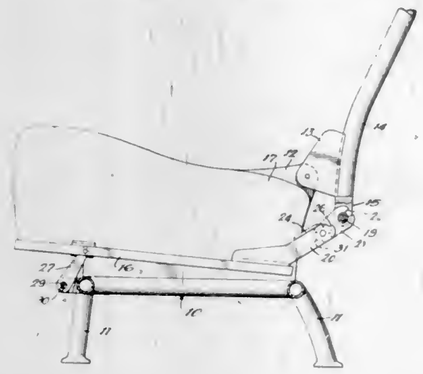
2,612,210
INFANT'S TOILET SEAT
Harry B. Light, San Gabriel, Calif.
Application July 19, 1947, Serial No. 762,185
1 Claim. (Cl. 155—31)



In a folding toilet chair embodying a seat formed with a toilet opening and having opposed parallel side edges, a back edge, a front edge, and an underside, rectangular side panels rigidly affixed to the side edges of said seat, said panels having lower edges spaced equidistant downwardly from the underside of the seat, a moveable side panel hinged to the lower edge of each of said side panels, a moveable front panel hinged to the front edges of said seat, said panels being positionable to extend perpendicular relative to said seat with the panel on the front edge of the seat extending between said side panels, said front panel having end edges arranged to abut the inner faces of the moveable side panels when the moveable panels are disposed perpendicular to said seat, said moveable panels being also positionable to underlie said seat with the front panel interposed between the seat and the underlying moveable side panels, and legs on the ends of each of said moveable panels; a pair of parallel opposed tongues on the underside of said seat along the side edges thereof and having ends opening toward the rear edge of the seat for slidably receiving and supporting the marginal rim of a chamber in detachable connection therewith, the underside of said seat at the back edge thereof being unobstructed to permit sliding of

the rim of a chamber in and out of engagement with said tongues, the pair of legs on each of said panels being spaced apart and arranged to extend astride a chamber supported by said tongues opposite the seat opening when the moveable panels are in their folded position underlying said seat, and the pairs of legs on said moveable side panels when in their folded position holding a chamber on said tongues against sliding and removal therefrom.

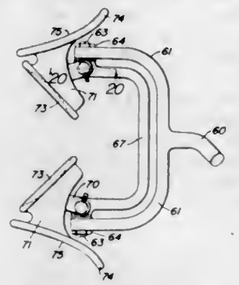
2,612,211
REMOVABLE CUSHION PLATE AND SEAT STANDARD
George F. Gielow, Brookfield, and Robert L. Edwards, Oak Park, Ill., assignors, by mesne assignments, to American Seating Company, a corporation of New Jersey
Application May 16, 1950, Serial No. 162,204
3 Claims. (Cl. 155—116)



1. In a seat structure equipped with a seat frame and a reclining back pivotally mounted upon said seat frame, a cushion plate equipped with a rearwardly-extending bracket, a lever member mounted upon said bracket, said reclining back being provided with a depending member, connections between said members consisting of a flattened pin on one member and a circular recess in the other of said members provided with an escapement slot adapted to receive said pin when the flattened walls thereof are aligned with the walls of the slot, and means for releasably connecting the forward end of said cushion plate to said seat frame, said latter means comprising a pivotally-mounted lever member and a seat frame, member, said members being provided with separable connections consisting of a flattened pin on one member and a pin-receiving annular recess on the other member, said last-mentioned member having an escapement slot adapted to receive said pin when the flat sides thereof are aligned with the slot walls.

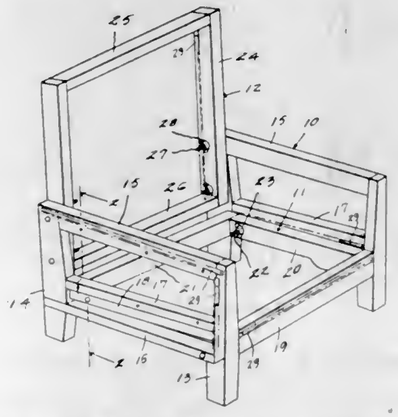
2,612,212
HEADREST FOR MEDICAL PRACTICE CHAIRS
Norman E. Lauterbach, Newark, N. Y., assignor to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware
Original application July 2, 1946, Serial No. 680,983. Divided and this application October 1, 1949, Serial No. 119,096
4 Claims. (Cl. 155—177)

1. A head rest for a chair, characterized by a support, a pair of cup-shaped elements for supporting a patient's head, a pair of substantially flat head supporting elements, and means for adjustably mounting both pairs of said elements



concomitantly on said support for selective pivotal movement of either pair thereof to head supporting position.

2,612,213
UPHOLSTERY FASTENING MEANS FOR FURNITURE
Wister Pervis Bott, Monroe, La., assignor to Porter Earl Dozier, Shreveport, La.
Application March 22, 1948, Serial No. 16,278
1 Claim. (Cl. 155—184)

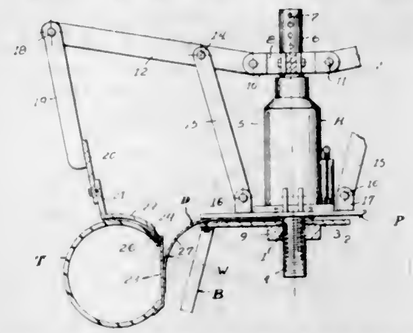


Means for securing the outer covering to an upholstered chair formed of a plurality of panel members including plates having reverted marginal edges cut away at the corners comprising a plurality of straight sheet metal strips arranged to conform to the configuration of the margin of each panel, fastening means for securing said strips to the panel seated in the reverted marginal edges of said plates, corner strips having their end portions underlying the adjacent ends of adjacent straight strips and a plurality of teeth extending from the inner edge of each straight and corner strip and inclined at an acute angle toward and outwardly of the plane of its adjacent panel.

2,612,214
AXIALLY SHIFTING TYPE HYDRAULICALLY OPERABLE TIRE REMOVER
Elbern A. Zang, Wichita, Kans.
Application January 9, 1947, Serial No. 720,951
1 Claim. (Cl. 157—1.2)

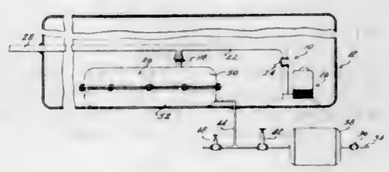
An apparatus for removing a tire from the rim of a wheel body comprising a supporting

table for said wheel body and having a central opening, a clamping plate adapted to be positioned upon the wheel body, a stud depending from the center of the lower side of said plate through the wheel body and said opening, a nut threaded on the stud to secure the wheel body and said plate on the table, a jack unit rising from the center of said plate and having a vertically movable plunger, levers pivotally connected



at their inner ends to the plunger and extending radially outwardly therefrom a substantial distance beyond the table and clamping plate, link members pivotally connecting said levers intermediate their ends with the clamping plate, depending arm members pivotally attached to the outer ends of the levers, and a presser foot attached to the lower end of each arm member for movement downwardly against the side of a tire on the wheel body.

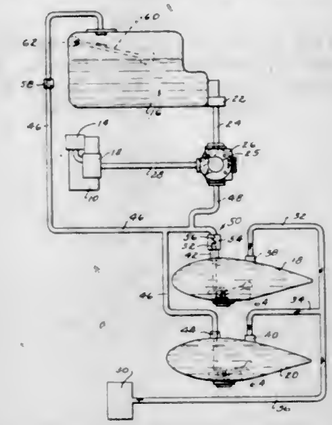
2,612,215
AIRPLANE FUEL SYSTEM WITH PRESSURE ACCUMULATOR
Miles Lowell Edwards, Longview, Wash.
Application September 15, 1948, Serial No. 49,320
4 Claims. (Cl. 158—36.3)



1. In an aircraft fuel system, a fuel cell, a pump having an inlet receiving fuel from said fuel cell and a discharge connected to a supply line, a tank connected to said line through a check valve, said check valve closing upon a differential of pressure in said line over that in said tank, means permitting a small flow of fuel from said line to said tank, and means for applying pressure to fuel in said tank.

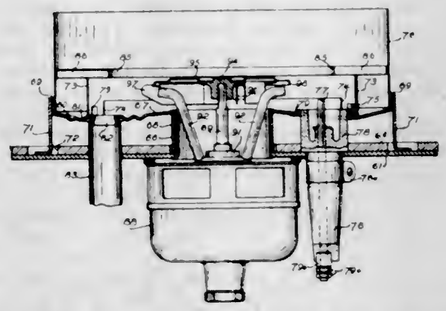
2,612,216
CONTINUOUS FLOW MULTIPLE TANK FUEL SYSTEM
David Samiran, Fort Wayne, Ind.
Original application August 1, 1945, Serial No. 608,348, now Patent No. 2,516,150, dated July 25, 1950. Divided and this application December 23, 1949, Serial No. 134,794
3 Claims. (Cl. 158—36.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. In an aircraft fuel system, a main fuel tank, a plurality of auxiliary fuel tanks, an outflow pipe extending from a point near the bottom of each of the auxiliary fuel tanks upwardly to the outside of said auxiliary fuel tanks, conduit means flow-connecting the outer ends of said outflow pipes to the top of said main fuel tank, valve means for controlling fuel inflow through said conduit means into said main fuel tank and operable to close when the fuel in the main fuel tank rises above a predetermined level and operable to open when the fuel in the main fuel tank falls below said predetermined level, valve means in each auxiliary fuel tank operable to close and prevent outflow of air through the re-



spective outflow pipes when the auxiliary fuel tanks are empty of fuel, means for applying equal air pressure to the top surfaces of the fuel in the several auxiliary fuel tanks for transferring fuel from the auxiliary fuel tanks into the main fuel tank by way of the outflow pipes and the conduit means, and a check valve in the outflow pipe extending from all but one of the auxiliary fuel tanks, whereby said air pressure causes transfer of fuel from said one auxiliary fuel tank to the main fuel tank before the subsequent transfer of fuel from the other auxiliary fuel tanks to the main fuel tank.

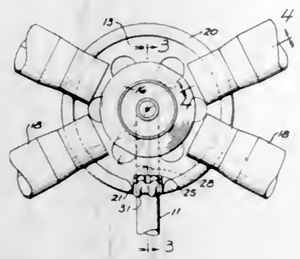
2,612,217
LIQUID FUEL BURNER
Noel H. Sutterfield, Milwaukee, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Original application July 17, 1944, Serial No. 545,234. Divided and this application February 10, 1947, Serial No. 727,604
6 Claims. (Cl. 158—77)



1. In a liquid fuel burning apparatus, a rotary oil and air distributor unit comprising a head

having a plate terminating at its periphery in a short downwardly directed skirt, a plurality of outwardly extending fan blades on the underside of said plate but terminating short of said skirt, a plurality of longer fan blades projecting outwardly beyond said skirt, and a plurality of oil delivery tubes extending upwardly and outwardly and terminating between said blades slightly inwardly of said skirt and just below the level of the lower edge thereof, said tubes having their outer ends located adjacent and leewardly of the longer blades during rotation of said head.

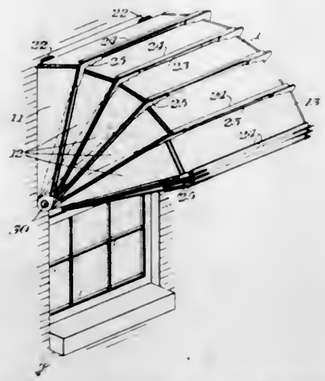
2,612,218
LIGHTER STRUCTURE FOR GAS BURNERS
Ervin H. Mueller, Grosse Pointe, Mich.
Application February 7, 1949, Serial No. 75,012
1 Claim. (Cl. 158—115)



In a lighter structure for a plurality of gas burners substantially as described, a support member having a circumferential supporting formation, said supporting formation having a notch therein, a plurality of flash tubes, each having an opening in its side wall so shaped and formed that the material of the side wall defining the opening may pass into the notch, the said supporting formation and the opening in each flash tube being so relatively shaped that the supporting formation slidably and non-detachably engages in said opening upon circumferential movement of the flash tube relative to the supporting member, and a clip having a portion inserted in the notch and attached detachably to the support member to thereby block the notch and hold the flash tubes assembled on the circumferential supporting formation.

2,612,219
COLLAPSIBLE AWNING
Frederick E. Nelson, Greentree, Pa.
Application January 26, 1951, Serial No. 207,876
1 Claim. (Cl. 160—132)

A collapsible awning comprising a series of inverted U-shaped sections nested in telescopic relation and pivotally mounted in spaced relation to each other to allow for ventilation therebetween, each awning section having a top and two side panels, an inturned flange at the upper end of each side panel, a flat stiffening bearing plate fastened between each inturned flange and the end of its corresponding top panel, an outwardly extending marginal flange along the front edge of each side and top panel, a flat stiffening right angle corner plate connecting the adjacent ends of the outwardly extending flanges of each side and top panel of each awning section, said outwardly extending marginal flanges and said stiffening right angle corner plates defining a continuous rigid frame on the face of each awning section to stiffen the same, the rigid frame of each consecutive awning section overlapping a portion of the frame of the next adjacent larger awning section to mask the ventilating space between the corresponding panels of the next adjacent larger awning section when the awning sections are telescoped, a rearward extension on the marginal flange of each top panel to engage a portion of the marginal flange of the next larger awning section when the awning is collapsed in telescopic relation to space the awning sections from each other, said flat stiffening right angle corner plates each having a horizontal and a vertical projection inwardly of the top and side



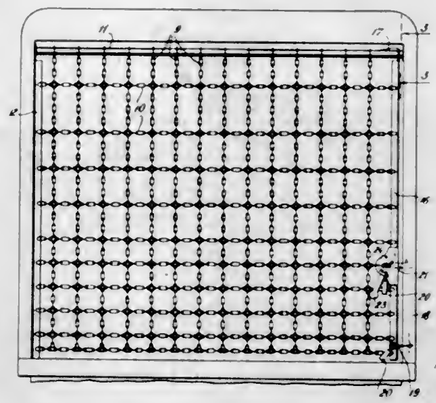
panels respectively, a rearward extension on each of said flat stiffening bearing plates to engage the horizontal inward projection of said flat stiffening right angle corner plates of the next adjacent larger awning section to limit the outward telescopic movement of each awning section, and a lateral continuous portion on each of said flat stiffening bearing plates to engage the vertical inward projection of the flat stiffening right angle corner plate of the next adjacent larger awning section and prevent their panel faces from scraping one another.

2,612,220
CONSTRUCTION OF VENETIAN BLINDS
Walter Turkowski, Hollywood, Ill.
Application July 13, 1950, Serial No. 173,563
11 Claims. (Cl. 160—166)



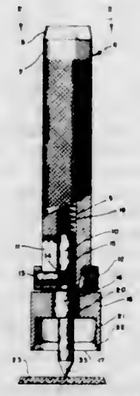
1. The combination with a blind consisting of a plurality of vertically suspended slats having means for turning adjustment about their lateral axis of a frame from which said slats are suspended, a rod member extending downwardly from said frame, and means extending therefrom for rigidly holding said slats in vertical position or in any predetermined turned position, said means including a collar slidably mounted on said rod member, a pair of arms extending therefrom and guide frames connected thereto, said slats extended through said guide frames.

2,612,221
AUTOMOTIVE TRUCK BODY FLEXIBLE CLOSURE
Joseph Dellapent, Westwood, N. J.
Application May 13, 1949, Serial No. 93,098
3 Claims. (Cl. 160—328)



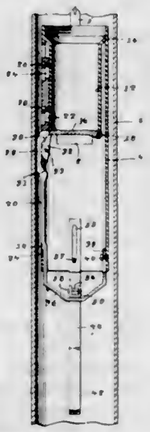
3. An automotive truck body having an opening at one end thereof defined by top, bottom and side walls, a barrier for the opening comprising a plurality of vertical lengths of chain and a plurality of horizontal lengths of chain extending across the opening and secured to the vertical lengths, means securing the horizontal lengths of chain at one end thereof to one side wall of the opening in the truck body, a support extending across the top of the opening adjacent to the top wall thereof, means for mounting the upper ends of the vertical chains on the support permitting movement thereof lengthwise of the support, an upright rail in said opening suspended from and movable along said support, the ends of the horizontal chains opposite those secured to said side wall being attached to said rail, a cam on the upper portion of the support adjacent the other side wall of the opening cooperating with the rail when the rail and chains are moved to closed position, said cam having a surface sloping gradually upwardly toward said other side wall and having an abrupt vertical surface facing and spaced from said other side wall, said rail having an opening at its upper end through which said support extends, said opening in the rail being large enough to freely accommodate said support and to permit vertical movement of the rail to accommodate the cam, the upper part of the rail forming the upper portion of the opening in the rail being adapted to slide along the support and along the sloping cam surface and to engage the abrupt vertical surface of the cam and the support when the rail and chains are moved to closed position, and means for drawing the lower portion of the rail toward said other side wall and for applying a downward tension on the rail for preventing disengagement of its upper end from said cam.

2,612,222
CENTERING PERFORATOR PUNCH WITH INTERCHANGEABLE PUNCHES
George J. Sterba and Edward C. Sterba, Western Springs, Ill.
Application August 23, 1950, Serial No. 181,016
8 Claims. (Cl. 164—124)



1. Centering perforator means, comprising a body element provided with a pounding extension and further provided with a reduced shoulder portion at the opposite end thereof, the said reduced shoulder portion having an axial bore extending partly into the said body element, pilot locating and centering means slidably mounted in the said bore and provided with a conical centering portion, slotted means in the said body element merging with the said bore, collar means slidably mounted on the said body, shoulder screw means securing the said collar means to the upper portion of the said pilot locating and centering means, and cylindrical perforator bushing means provided with a bored portion securable interchangeably to the said reduced shoulder portion.

2,612,223
DUMP BAILER
William C. Gipson, Jacksboro, Tex., assignor of one-half to Wesley Senkel, Graham, Tex.
Application August 9, 1946, Serial No. 689,613
5 Claims. (Cl. 166—19)



1. A dump bailer bottom for use in a well casing comprising a hollow cylinder opening at its lower end to provide an exit or discharge opening, said cylinder being formed with inter-

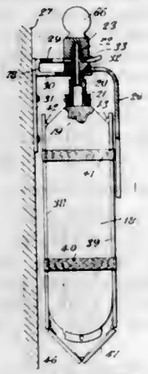
mediate laterally opposed slots and a vertical slot, a material container secured within the cylinder slightly below the open upper edge thereof, a bottom door pivotally mounted on the lower periphery of the container, a strap mounted on the container for vertical movement in the vertical slot in the cylinder, pivoted means carried by the cylinder adjacent the free edge of the door and adapted to engage the door to retain the door in closed position, said means is engaged by said strap upon upward vertical movement of the strap relative to the cylinder to pivot said means to disengage said means from contact with said door to permit opening of the door, strap engaging means mounted for upward vertical movement on the lower end of the cylinder for engaging the strap to cause upward vertical movement of the strap relative to the cylinder, said strap engaging means having frictional engagement with the well casing in which the bailer is being used and having limited lost vertical motion with respect to said strap, said opposed slots being located in said cylinder immediately below the pivotal mounting for the bottom door of the container to permit closing of the door before using or filling the container.

2,612,224

FIRE EXTINGUISHER

Charles L. Zabriskie, New York, N. Y., assignor to Essex Products, Inc., New York, N. Y., a corporation of New Jersey

Application February 21, 1948, Serial No. 9,999
2 Claims. (Cl. 169—30)



1. In a fire extinguisher the combination of a flexible bag for holding fire extinguishing material in fluid form, a nozzle attached to one point of said bag for having said fluid pass through said nozzle when said bag is squeezed, and a cap for engaging said nozzle to prevent said fluid from flowing from said body until said cap is removed, said cap being made of a material which expands much more rapidly than the material of which the nozzle is made, whereby it will automatically drop off the nozzle at high temperatures.

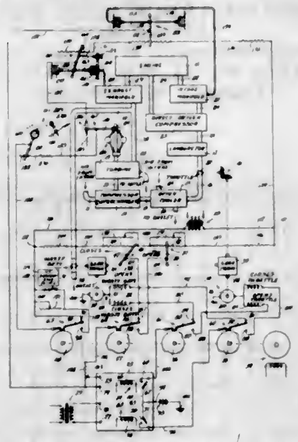
2,612,225

ENGINE PRESSURE AND SPEED CONTROL DEVICE

Hubert T. Sparrow, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application March 28, 1946, Serial No. 657,887
19 Claims. (Cl. 170—135.74)

1. In combination with an aircraft engine having a combustion chamber and a variable pitch propeller driven by said engine, means for supplying air to the combustion chamber of said engine, a device for varying the pressure of said air, means including a normally balanced electrical impedance network responsive to the pressure condition of said air operatively connected to said device for controlling said device to maintain said pressure condition at a predetermined value, movable means connected to said network for adjusting the electrical balance point of said network to vary said predetermined value and effective upon continual movement thereof to increase



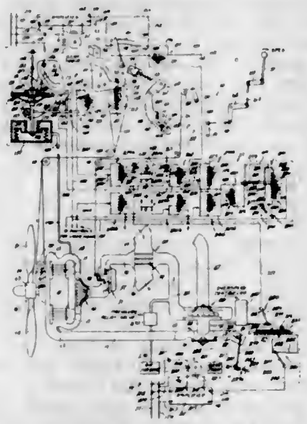
the value at which said pressure condition is maintained during an initial range of movement of said movable means, to maintain it constant during an intermediate range of movement of said movable means, and to again increase said value during a final range of movement, means for automatically controlling the propeller pitch to maintain the engine speed at a predetermined value, movable means for adjusting said last named means, and a single manual control connected to both of said movable adjusting means to position them simultaneously.

2,612,226

ENGINE POWER CONTROL APPARATUS

Stephen Crum, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application April 4, 1946, Serial No. 659,651
33 Claims. (Cl. 170—135.74)



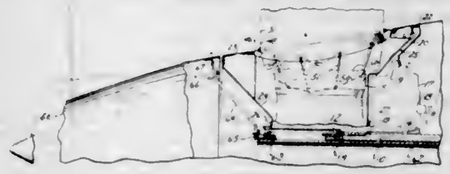
14. In combination with an aircraft engine connected in driving relation with a variable pitch propeller, means for supplying fuel to said engine, a valve for controlling the amount of fuel supplied to the engine, a speed responsive governor for controlling the pitch of the propeller to maintain a selected speed, adjustable means for adjusting the speed maintained by said governor, means for biasing said adjustable means to a position in which there is maintained a speed intermediate of the range of adjustment, a remote manually positioned member mechanically connected to said valve for varying the amount of fuel supplied to said engine and to said adjustable means for varying the setting thereof, and further biasing means associated with said manually positioned member in such a manner as to oppose the biasing action of said first named biasing means so that when said manually positioned member is connected to said adjustable means said first named biasing means will not affect said member.

2,612,227

ROTATABLE SEAL FOR COWLINGS

Maurice E. Cushman, Verona, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application January 30, 1951, Serial No. 208,636
8 Claims. (Cl. 170—160.23)



8. A propeller system including a hub having controllable pitch blades extending therefrom, a spinner secured to and rotatable with said hub, a curved guide carried by the hub within said spinner, a streamlined air entry cowl in advance of and blended into the form of said spinner, means mounting said air entry cowl against rotation with the propeller, said spinner portion having openings through which the blades of the propeller project, flexible means movable with the propeller blades as they turn for pitch change to seal the blades to the surface of said spinner, and mechanism articulately connecting said curved guide with said flexible means to conform the shape of said flexible means, at all times, to the shape of said spinner.

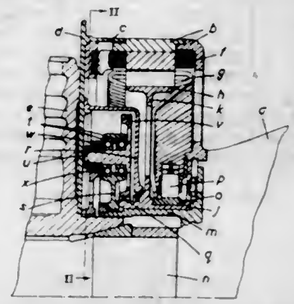
2,612,228

ELECTRICALLY DRIVEN PROPELLER PITCH CHANGE SYSTEM

Archibald Graham Forsyth, Cheam, England, assignor to The Fairey Aviation Company Limited, Hayes, Middlesex, England

Application July 2, 1946, Serial No. 680,896
In Great Britain July 3, 1945
4 Claims. (Cl. 170—160.23)

1. In an aircraft having a fixed nose part and a propeller shaft projection therefrom, a dynamo-electric machine having its field coils non-rotatably mounted on said fixed nose part about the axis of the propeller shaft, a sleeve attached to and projecting forwardly from said nose part coaxially with the propeller shaft, an armature for said machine rotatably mounted on said sleeve for free rotation with respect to said shaft, a step-up gearing to drive said armature at a higher speed than said propeller shaft comprising a first small gear integral with said armature, a second larger gear keyed to the propeller shaft, a small pinion supported by said sleeve and driven



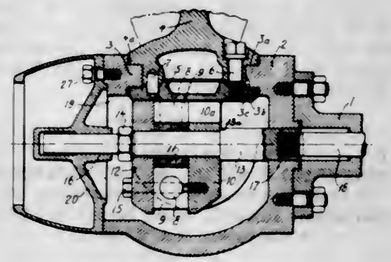
by said second gear, and a larger pinion driven by said small pinion, said larger pinion meshing with said first gear to rotate said armature.

2,612,229

VARIABLE PITCH PROPELLER BLADE ROOT CONSTRUCTION

Ferdinand Tornes and Nils Johannes Liaaen, Aalesund, Norway

Application March 15, 1946, Serial No. 654,752
In Norway March 6, 1945
3 Claims. (Cl. 170—160.47)



1. In an adjustable pitch propeller or the like, a hollow hub, a plurality of blades mounted radially therein and means operatively connected to the inner ends of said blades for turning them about their axes, each said blade having adjacent its root end an annular flange and said turning means comprising a crank disc secured to the root of said blade, the said flange and the said crank disc forming between them a circular groove for a bearing ring in the hub, the connection between the blade and the crank disc being established by means of screw bolts extending through the said flange at the root end of the blade and screwed into the said crank disc, said hub having an axial opening of a diameter sufficient to permit passage of said crank discs into the interior of said hub, said flange and said crank disc bearing against the outer and inner surfaces respectively of a bearing ring made integral with the hub in the wall of the same.

2,612,230

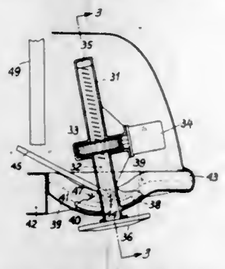
MOTORCAR WITH PARKING DEVICE

Hubert Jezler, Zurich, Switzerland

Application August 15, 1947, Serial No. 768,893
In Switzerland August 17, 1946
6 Claims. (Cl. 180—1)

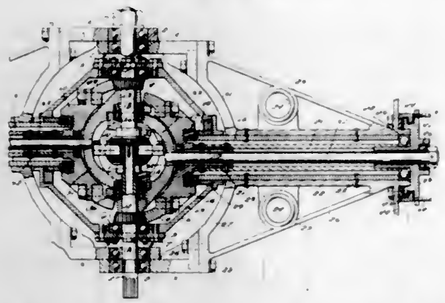
1. In a parking device for a motor vehicle, including a substantially upright jacking shaft and

means associated with said device to reciprocate said shaft in the direction of its axis between an upper and a lower end position, and to rotate said shaft when in its lower end position, the combination of a substantially circular, disc-like foot coaxial with and fixed to the lower end of said shaft, a housing in which said shaft is telescopically movable and from which said foot projects, a pivot means for said housing having its axis at right angles to said shaft axis, and said pivot means being adapted to be secured to said vehicle with said pivot axis transverse with re-



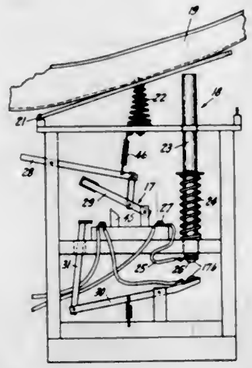
spect to a longitudinal vertical plane of said vehicle, said housing being free to swing about said pivot axis between two end positions wherein said shaft is tilted at an acute angle to a transverse vertical plane through said pivot axis and with the foot end of said shaft rearward in one off-set position and forward in the other off-set position with respect to said transverse plane, means to adjust said housing selectively to one or the other of said end positions, and locking means adapted to engage said housing with said vehicle to lock said housing in its selected position.

2,612,231
INDIVIDUALLY SWINGABLE DRIVEN AXLE
Curt Bretschneider, Philadelphia, Pa.
Application June 28, 1947, Serial No. 757,713
5 Claims. (Cl. 180—73)



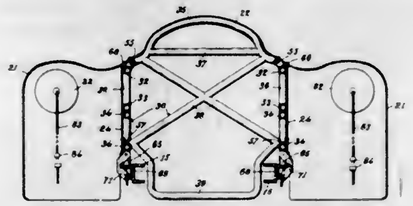
5. In a differential drive, a housing, a drive shaft mounted therein, a differential driven by the drive shaft, shafts driven by the differential, brackets mounted on said driven shafts, axles fixed to said brackets, ring gears in the housing, one of which is intergeared with one driven shaft and the other of which is intergeared with the other driven shaft, carriers for the ring gears, inner tubes fixed to the carriers, outer tubes on which the carriers are mounted and extending through the housing with a clearance, frames mounted on said shaft sections exteriorly of the housing and fixed to the outer tubes, and wheel mounting members connected to said inner tubes and disposed in bearing relation with the other ends of said axles.

2,612,232
SEAT CONTROLLED MECHANISM FOR THE CONTROL OF THE OPERATION OF MOTOR VEHICLES
James A. Morrison, Washington, Iowa
Application October 18, 1949, Serial No. 121,951
3 Claims. (Cl. 180—82)



1. A safety device for a tractor having a seat and a spring supporting the same, said device comprising a support adapted to be mounted on the tractor under said seat and spring, a lever pivoted in an approximately horizontal position in the lower portion of said support and carrying a contact at one end, an approximately vertically shiftable plunger carried by said support and having a contact at its lower end, said plunger being reciprocable toward and from the lever and the contact carried thereby and engageable with the contact before the plunger is moved to its limit, a spring reacting against said support for urging said plunger upwardly, an approximately vertically extending link connected at its lower end to the other end of said lever, and a manually operable switch carried by said support above said lever and including a switch arm in a position to be engaged by said link when the switch arm is in switch closing position, whereby, when downward movement of said plunger, as by the operator mounting said seat, acts through said lever to raise said link, the upper end of the latter engages said switch arm and shifts it from one position to another.

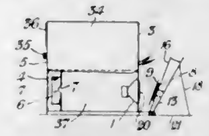
2,612,233
SHROUD SUPPORTING FRAME FOR AUTOMOBILE ENGINE COMPARTMENTS
Arthur R. Newell, Topeka, Kans.
Application May 20, 1948, Serial No. 28,072
7 Claims. (Cl. 180—89)



1. In an automobile construction, a chassis including longitudinal frame members and a dash, a radiator secured to the forward portion of said frame members, a shroud supporting frame comprising transverse end members and longitudinal side members rigidly connecting the same, a hood

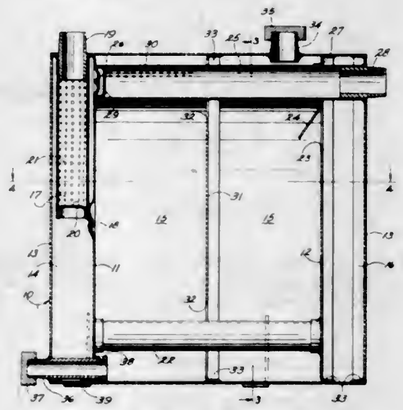
and front wheel fenders connected solely to said supporting frame, vertically disposed tubular sockets at the lower portions of said transverse members, upwardly extending studs fixed to said chassis frame members and adapted to fit within said sockets, and toggle clamps pivotally mounted on the lower ends of said tubular sockets, the free ends of said clamps engaging beneath said studs detachably securing said shroud supporting frame to said chassis frame members.

2,612,234
APPARATUS FOR IMPROVING THE REPRODUCTION OF SOUND
Stevan Dragutin Zivadinovic, Oxford, England
Application December 5, 1949, Serial No. 131,183
In Great Britain December 9, 1948
5 Claims. (Cl. 181—31)



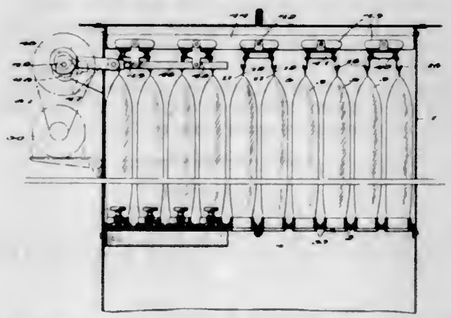
1. For improving the performance of a sound-reproducing instrument comprising a loud-speaker supported inside a cabinet, the combination with the said instrument of sound-reflecting and dispersing means comprising a reflecting screen and at least one discontinuous screen disposed between the said reflecting screen and the loud speaker, which loud speaker, cabinet and sound-reflecting and dispersing means are arranged in relation to each other so that the main stream of sound from the loud speaker is projected to the listening space in front of the instrument only after reflection from the said means, the said screens being hingedly connected to the cabinet so that they can be folded up against a wall of the cabinet when not in use.

2,612,235
LIQUID COOLED MUFFLER
Karl W. Schreeck, Cleveland, Ohio
Application November 28, 1949, Serial No. 129,785
5 Claims. (Cl. 181—52)



1. A liquid muffler for the exhaust gases of an internal combustion engine comprising a closed vessel, a partition adjacent each end thereof defining respectively an inlet chamber, a liquid vessel, and an outlet chamber communicating with the upper portion of said vessel, a conduit in the lower portion of said vessel connecting said inlet and outlet chambers, liquid partially filling said vessel, said liquid constituting a coolant for the exhaust gases passing through the inlet chamber, said conduit, and said outlet chamber, and further constituting a quenching medium for sparks passing into said vessel, and a discharge tube in said vessel above the liquid level, said tube extending through and protruding beyond the outer wall of said outlet chamber and having a perforate side wall in the portion thereof which is disposed within the vessel.

2,612,236
DUST COLLECTOR
Walter O. Vedder, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application January 6, 1950, Serial No. 137,220
8 Claims. (Cl. 183—58)



1. A bag type dust collector comprising a housing, a grid plate dividing the housing into a lower, dust receiving chamber and an upper bag and clean air receiving chamber, a walkway extending longitudinally of the grid plate, said grid plate being formed with transversely elongated openings at each side of said walkway, shaker frames positioned in said housing above and in spaced relation to said openings, filter bags suspended from said shaker frames, said bags having transversely elongated mouths provided with resilient marginal sealing means, transversely elongated nozzle members through which the mouths of said bags are extended, transversely elongated retainer sleeves receivable within said bag mouths and nozzles for positioning the sealing means of said bag mouths in underlying relation to the lower faces of said nozzles, said retainers being stiffened in their elongated dimension and having flange means for positioning the same relative to said grid plate openings, and said nozzles and grid plate being provided with clamping means for securing said nozzle, bag mouth and retainer assemblies in marginally sealed relation to the openings in said grid plate.

2,612,237
CENTRALIZED LUBRICATING SYSTEM
Harry R. Tear, Evanston, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application April 15, 1950, Serial No. 156,076
10 Claims. (Cl. 184—7)

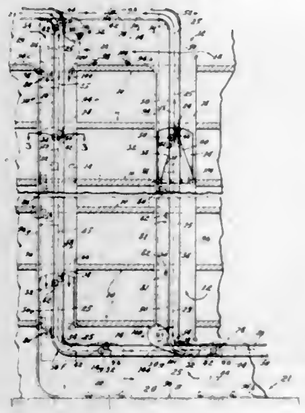
1. A centralized lubricating system for supplying lubricant periodically to a plurality of bearings, comprising a first plurality of measuring

valves individually connected with some of the bearings, the measuring valves being operable by successive application and release of lubricant pressure, a first conduit connected with the first plurality of measuring valves, the first conduit having an inlet and a remote outlet, means alternately to apply and release lubricant pressure at the inlet of the first conduit, a second plurality of similar measuring valves located remotely from the inlet of the first conduit, a second conduit connected with the second plurality of measuring valves, a vent outlet, a venting valve



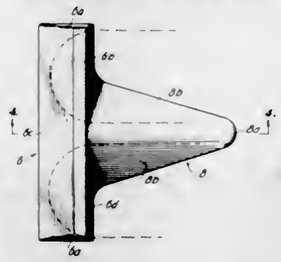
connected between the second conduit and the vent outlet normally providing a relief passage to transmit lubricant from the second conduit to the vent outlet, a pressure sensitive device in the valve to close the latter, means connecting the device to the outlet of the first conduit for closing the valve in response to pressure therein, and means including a check valve connecting the outlet of the first conduit to the second conduit to transmit lubricant under a substantial pressure from the first conduit to the second, but to prevent reverse flow of lubricant.

2,612,238
ELEVATOR SYSTEM
Achilles F. Angelicola, North Bergen N. J.
Application December 31, 1949, Serial No. 136,274
9 Claims. (Cl. 187—16)



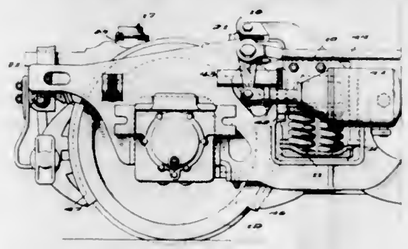
3. In an elevator system having an elevator car, a pair of vertical spaced cog rails for a down shaftway, one of said vertical cog rails for mesh with a driving gear and the other of said vertical cog rails for mesn with an idler gear driven by the driving gear, a horizontal cog rail at an upper level for transfer of the elevator car to the down shaftway, a curved cog rail at one end communicating with the horizontal cog rail and at the other end communicating with the cog rail for the driving gear, a second curved cog rail at one end communicating with the vertical cog rail for the idler gear, the radius of curvature of said first mentioned curved cog rail being smaller than the radius of curvature of said second mentioned curved cog rail, the first mentioned curved cog rail spaced inwardly of the horizontal cog rail and the vertical cog rail for the driving gear at the point of tangency therewith, a second driving gear integrally driven with the first driving gear and of smaller diameter than said first driving gear for mesh with the first curved cog rail, a second idler gear integrally driven with the first idler gear for mesh with the second curved cog rail and means for driving the elevator car including a driving gear and a second idler gear meshing therewith.

2,612,239
WHEEL CHOCK FOR DUAL WHEEL VEHICLES
Walter G. Watkins, North Kansas City, Mo., assignor of one-half to Conn Withers, Liberty, Mo.
Application November 10, 1950, Serial No. 195,071
6 Claims. (Cl. 188—32)



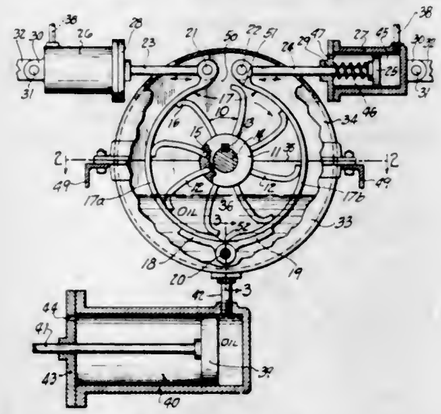
1. In a wheel chock for rubber-tired, dual wheel vehicles, a T-shaped body adapted to rest on the ground and comprising a three-sided pyramidal stem insertable between the tires of a dual wheel, with an integral triangular prismatic cross bar projecting laterally from the rear end of the stem across the path of both tires.

2,612,240
SLACK ADJUSTER FOR BRAKES
Harry A. Moeller and Claude L. Orr, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus Ohio
Application November 29, 1948, Serial No. 62,543
8 Claims. (Cl. 188—56)



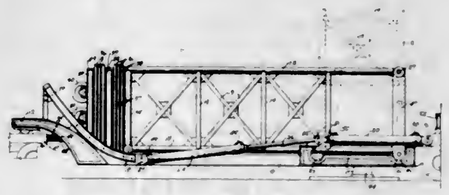
6. In a brake system for a railway car truck, side frames for the truck, a bolster resiliently supported on said side frames, a bracket carried by the bolster, a slack adjuster mechanism including two spaced arms, a face plate carried by said bracket, means securing said arms to said face plate, a beam arranged transversely of the truck and extending between said spaced arms, means connecting the beam to the slack adjuster mechanism, a dead end fulcrum bar forming a part of a brake rigging for the truck, spaced ears carried by the end of said fulcrum bar, inner surfaces of said ears diverging outwardly in proceeding toward the free end of the ears, a convex surface forming a straight edge of said beam, a block arranged between the ears, a concave surface on the block engaging the convex surface of the beam, a convex surface on the block cooperating with an adjacent concave surface formed between the ears of the fulcrum bar, a pin extending through the ears and the beam, and said pin being of smaller cross section than openings for the pin in the bars and the beam.

2,612,241
TRUCK AUXILIARY BRAKE
John V. Powell, Price, Utah
Application May 15, 1947, Serial No. 748,194
16 Claims. (Cl. 188—75)



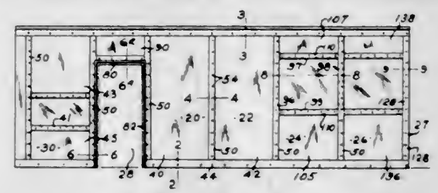
6. A truck auxiliary brake comprising a rotor having a plurality of independent and spaced apart circumferential braking surface means to, in effect, constitute a brake drum; contractile brake shoe means disposed to alternately engage said braking surface means and to release the same; means operative to alternately contract and expand said contractile brake shoe means; and means disposed to confine a liquid that at least partially submerges said plurality of independent and spaced apart circumferential braking surface means and said brake shoe means.

2,612,242
PORTABLE WELL SERVICING RIG
Theodor R. Munsinger, Meeker, Colo.
Application November 29, 1948, Serial No. 62,527
6 Claims. (Cl. 189—15)



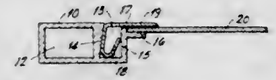
4. A portable well derrick comprising: a vehicle; a pair of spaced-apart track members mounted on said vehicle, each of said track members having an indented receiving socket adjacent its one extremity, said sockets being in alignment with each other; a derrick section with its base positioned between said track members; rollers rotatably mounted on, and projecting oppositely outward and in transverse alignment from said base adjacent one side thereof and arranged to travel on said track members into and out of said sockets; projections projecting oppositely outward from said base adjacent the other side of said base so as to rest upon said track members when said rollers are in said sockets to support said derrick section vertically on said track members; means for moving said rollers longitudinally of said track members and into said sockets; and a second means for swinging said derrick section in a vertical plane about the axis of said rollers when the latter are resting in sockets.

2,612,243
PARTITION CONSTRUCTION
Joseph B. Campbell Syracuse, N. Y.
Application October 8, 1949, Serial No. 120,365
5 Claims. (Cl. 189—34)



1. In a temporary partition construction, in combination, an upright channel member having a web and parallel side flanges forming an open side, wall panels in substantial abutting relation to said web and open sides and having a thickness substantially the same as outside width of said web, transversely cambered resilient batten members extending along the length of said flanges and detachably secured thereto along the length thereof with their concave sides against said flanges, said batten members being thin strips and extending over and engaging under pressure the opposed surfaces adjacent the abutting edges of adjacent panels of said wall panels and being flattened into broad surface contact by said surface engagement.

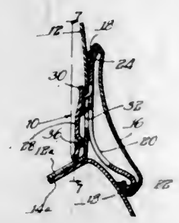
2,612,244
PANEL FASTENING FOR DOORS AND WINDOW SASHES
Augustine John Kiefer, Pittsburgh, Pa.
Application July 20, 1950, Serial No. 174,925
2 Claims. (Cl. 189—78)



1. In a door or window sash structure, the combination of a frame for the opening to receive a panel to span said opening, which frame is formed of stile and rail members joined at their ends to define said opening, each of said members being provided along its inner edge with a longitudinal groove parallel with said edge, the inner edge surfaces of said members being also provided with an integral relative narrow shelf which extends into said opening but is stepped back from the plane of the adjacent side surface of the frame, a distance substantially the thickness of the panel, and a spline formed by bending up a relative narrow strip of resilient sheet metal to form an open looped body portion arranged to be forced into said groove engaging

both sides thereof, the longitudinal edge of said loop frictionally engaging the adjacent side wall of the groove to hold the spline in place and the opposite longitudinal edge portion of said spline being flat and extending inwardly of the opening of the frame to overlap and cover the edge portion of the panel, the outer surface of the overlapping portion of the spline lying in the plane of the side surfaces of said stile and rail members of the frame, the back of said loop functioning as a fulcrum to unseat the longitudinal edge of said loop when the spline is being removed from said groove.

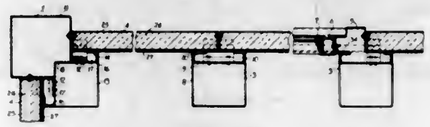
2,612,245
FASTENING DEVICE
Ouglјesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application December 28, 1948, Serial No. 67,623
5 Claims. (Cl. 189—88)



5. In combination with work pieces, one of which is apertured, said work pieces having angularly disposed surface areas meeting along a common line of juncture, and a fastening device including a work engaging plate-like head for overlying the line of juncture, at least one portion of the head being laterally yieldable as an incident to the engagement thereof with one of said angularly disposed work surfaces, an integral latching member spaced from the plane of said head including an arm and a complementary opposed lug extending within an aperture of one of said work pieces and superimposing the work surface in the vicinity of said aperture, said latching member having its lug bearing against one side of said work piece and its arm bearing against the angularly disposed portion of said work piece, said plate-like head bearing against the opposite side of said work piece, said plate-like head being flexed laterally and having its free margin positioned against the work surface disposed angularly with respect to said apertured work piece, the opposed margins of said plate-like head providing means for interlocking with a work piece to be supported in superimposing relation with respect to said common line of juncture.

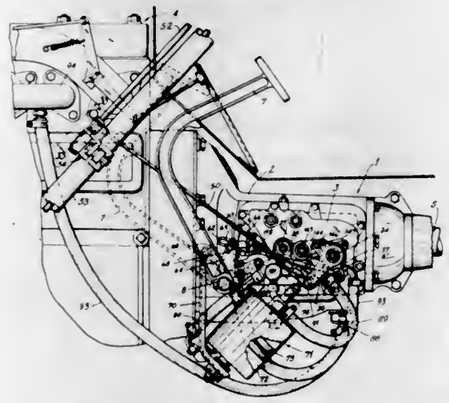
2,612,246
WALL CONSTRUCTION
Irving P. Whitehouse, South Euclid, Wolfgang W. Krauss, Aurora, and Austin G. Damon, Lakewood, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application November 9, 1945, Serial No. 627,668
6 Claims. (Cl. 189—88)

1. Building wall construction comprising a plurality of spaced, vertical, side wall and corner structural columns, each of said side wall columns having recessed outer sides, each of said corner columns including an inner rectangular column extending into the inner corner of an outer rectangular column and forming therewith recesses on the outer sides of said inner columns, a plurality of horizontal panels extending between ad-



jacent columns and bearing against their outer sides, and clips secured in the recesses of said columns and operatively engaging said panels to retain them against the columns.

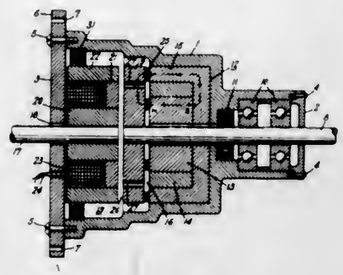
2,612,247
AUTOMOTIVE POWER DRIVE CONTROL SYSTEM AND MECHANISM
Glenn T. Randol, St. Louis, Mo.
Application April 5, 1944, Serial No. 529,635
41 Claims. (Cl. 192—.048)



1. In a control mechanism for a change-speed gearing having three forward speed ratio means, means comprising a manually controlled member for establishing one of the speed ratio means by manual effort when moved from one position and set in a second position, an actuatable member, actuating means for said last-named member, means operable by said actuatable member for neutralizing the established one speed ratio means when actuated and without disturbing the second position setting of the manually-controlled member, means comprising power means for alternately establishing the remaining two speed ratio means, and means for controlling the operation of the power means by the said actuatable member to cause the alternate establishment of the said remaining two speed ratio means.

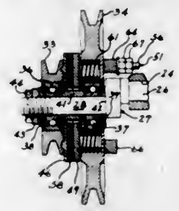
2,612,248
CLUTCH-BRAKE MECHANISM
Karl M. Feiertag, Fort Wayne Ind., assignor to General Electric Company, a corporation of New York
Application June 2, 1950, Serial No. 165,628
3 Claims. (Cl. 192—15)

1. A combined magnetic clutch and brake including a magnetizable driven rotor having oppositely disposed sides, holes through said rotor connecting said oppositely disposed sides, a brake adjacent one side of said driven rotor and forming a first gap therewith, a driving rotor adjacent the opposite side of said driven rotor and forming a second gap therewith, said gaps containing a magnetically susceptible mixture, a permanent magnet for said brake creating a magnetic field in said first gap to concentrate said mixture in said first gap and to cause said mixture to couple said driven rotor to said brake, and an energizable magnetizing winding for said



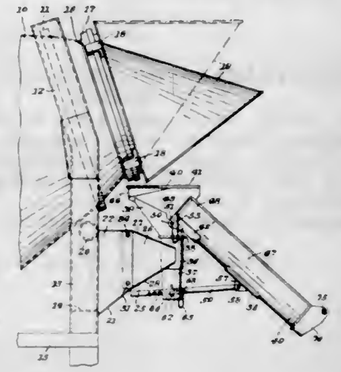
driven member capable of creating a magnetic field in said second gap of greater strength than said first-mentioned magnetic field, said second-mentioned magnetic field drawing said mixture through the holes in said driven rotor thereby causing said mixture to concentrate in said second gap and then to couple said driving and said driven rotors together when said coil is energized.

2,612,249
CONSTANT SPEED DRIVE FOR AUTOMOBILE GENERATORS AND THE LIKE
Thurman W. Horn, Anniston, Ala., assignor to Cabometer, Inc., a corporation of Alabama
Application June 14, 1948, Serial No. 32,764
4 Claims. (Cl. 192—104)



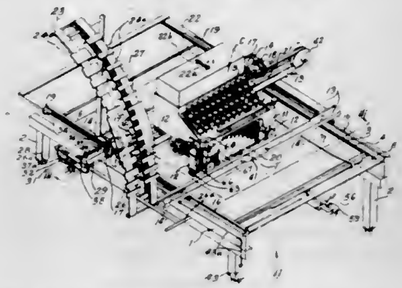
1. In apparatus for driving a generator or the like from an engine, a pair of pulleys mounted side by side on a common stationary shaft for rotation relative to each other, means holding the pulleys fixed against movement toward and from each other, a belt passing over one of said pulleys and driven by the engine, a second belt passing over the other pulley and driving the generator, a friction clutch interposed between the pulleys, there being a plurality of recesses in the side of the pulley driving the generator adjacent said friction clutch, compression springs in said depressions biasing said friction clutch toward a position to lock said pulleys together, a pair of axially movable pins carried by one element of the clutch and limiting the clutch engaging pressure exerted by the springs, and centrifugally actuated members carried by the pins and movable to a position to decrease the clutch engaging pressure when the speed of said pulleys reaches a predetermined value.

2,612,250
DISCHARGE CHUTE ASSEMBLY FOR CONCRETE MIXERS OR THE LIKE
Louis J. Sarosdy, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application January 31, 1949, Serial No. 73,685
6 Claims. (Cl. 193—10)



1. In a discharge assembly for concrete mixers or the like having a discharge spout, in combination, a gathering pan adapted to be positioned beneath said spout, said pan having an upper arcuate edge and a lower discharge edge, said edges being connected by a surface generally sloping toward said discharge edge, a generally vertical shaft connected substantially solely to the outside of said pan, a socket for rotatably supporting said shaft, said socket being connected to said concrete mixer or the like, said shaft and socket enabling said pan to be horizontally rotated while remaining beneath said spout, and a chute pivotally connected to said pan adjacent said discharge edge.

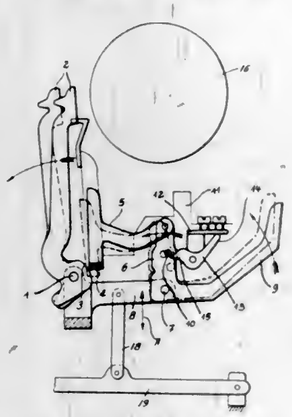
2,612,251
MUSIC PRINTING OR TYPEWRITING MACHINE
James Murray Parker, Glenhuntly, Victoria, Australia
Application March 8, 1949, Serial No. 80,138
In Australia March 18, 1948
8 Claims. (Cl. 197—8)



1. An improved music writing machine comprising a stationary platen for supporting paper to be written upon, type-writing mechanism, manually operable means for effecting movement of said mechanism over the paper supporting surface of the platen, such manually operable means comprising a scale or indicator device having upstanding laterally spaced bars providing a continuous pathway between them, the adjacent or inner faces of the bars having staggered hori-

zontal slots spaced apart in conformity with the lines and the intervening spaces of a musical stave, a lever adapted to be moved with a swinging motion lengthwise through said pathway and having capacity for limited sidewise movement into any of said slots, and operative connections for translating said swinging motion of the lever into movement of said mechanism longitudinally over the said platen.

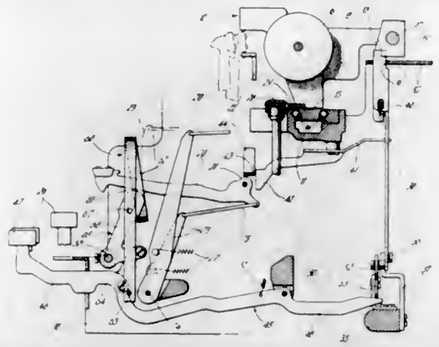
2,612,252
TYPE BAR RELEASING MECHANISM FOR TYPEWRITERS
Adolf Gissel, Oberursel, and Ernst Reuter, Oberursel-Bommersheim, Germany, assignors to Torpedo Werke Aktiengesellschaft, Fahrräder und Schreibmaschinen, Frankfurt-Main-Rodelheim, Germany, a firm
Application June 21, 1949, Serial No. 100,464
In France July 16, 1948
4 Claims. (Cl. 197—22)



1. In a typewriter, the combination comprising a frame, a type bar segment shiftably mounted in the frame and normally occupying a first position, key means operable to shift the type bar segment to a second position, a plurality of type bars pivoted to the segment, a universal bar movably mounted in the segment and moved in the same by any one of the type bars approaching the point of impact with the platen from inoperative to operative position, means rockably mounted on the segment and articulated to the universal bar, and means mounted on the frame and engaged by the rockable means during shifting of the type bar segment and the rockable means with the universal bar disposed in operative position, said means being yieldable during the shifting of the segment and rockable means to the first segment position and rigid with the frame during said shifting to the second position for thereby rocking the rockable means and moving the universal bar from operative to inoperative position and thereby releasing jammed type bars.

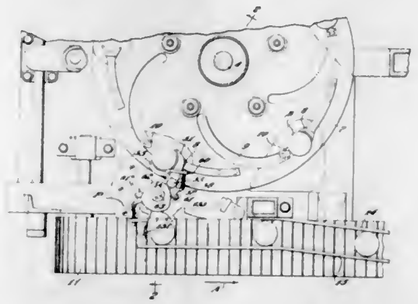
2,612,253
DEVICE TO RESTORE FORCIBLY INTERFERINGLY OPERATED TYPE CARRIERS
William F. Helmond, Clinton, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 12, 1950, Serial No. 200,461
2 Claims. (Cl. 197—27)

1. In a typewriting machine having a frame, a letter feeding carriage, and spring-restored individually operable type actions which if operated in too close succession will by interference bind against each other and fail to restore; an element on the frame and an element on the carriage normally in cooperative margin controlling range with each other, a bail extending transversely of the machine and normally clear of the operating paths of said type actions but operable to restore



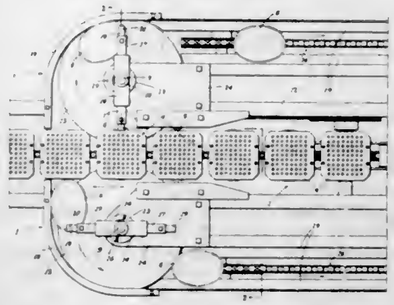
forcibly any type action failing to restore, a key lever extending fore-and-aft in the machine and comprising a rearwardly reaching arm and also a forwardly reaching key-bearing arm connected to said bail to operate the latter, and means operated by said rearwardly reaching arm to move said elements relatively out of cooperative margin controlling range.

2,612,254
CONVEYER MECHANISM
Sidney T. Carter, Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin
Application September 14, 1945, Serial No. 616,319
17 Claims. (Cl. 198—22)



1. Conveyor apparatus of the kind which includes a rotary turntable and a rectilinearly moving conveyor substantially tangent to the periphery of the table, the table having thereon a rear, article-positioning rest and a forward, relatively movable gripper for holding the article against the rest, transfer means for shifting the article from the table to the conveyor, and means for moving the gripper away from the rest as the article nears the transfer point thereby to release the article, characterized in that the transfer means comprises a clamping element operative temporarily to clamp the article against the rest while the gripper moves away from the article in releasing the latter for transfer, and means which engages the article, only after the gripper has receded from the article, to release the latter, and which cooperates with the clamping element to clasp and hold the article while the article is being shifted from the table to the conveyor.

2,612,255
CAN TRANSFER MECHANISM
Kurt Alfred Leuschner, Monterey, Calif.
Application January 25, 1950, Serial No. 140,418
5 Claims. (Cl. 198—25)



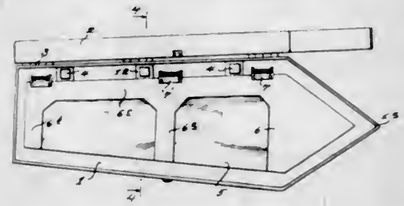
2. In combination with a pair of adjacent conveyors, one having laterally opening can holders thereon and the other being a can carry-off conveyor, a can transfer mechanism, working between said conveyors, comprising a driven turntable assembly positioned between said conveyors to receive cans from said one conveyor and to deliver said cans to the other conveyor, a spindle upstanding axially from and driven with the turntable assembly, an arm unit radiating from the spindle above the turntable assembly, said arm unit being of a length to sweep into and out of an adjacent can holder from the side with each revolution of said spindle, means pivoting the arm unit in connection with the spindle for vertical swinging, the arm unit being above the related can upon swinging into a holder, and cam means operative to then lower the arm unit into can engagement and maintain said engagement until the arm unit has withdrawn the engaged can from the holder onto the turntable assembly.

2,612,256
GLASSWARE SPACING DEVICE
Harold A. Youkers, Knox, Pa., assignor of one-half to Henry C. Daubenspeck, Massillon, Ohio, and one-half to Samuel E. Winder, Washington, Pa.
Application November 9, 1946, Serial No. 708,987
13 Claims. (Cl. 198—31)



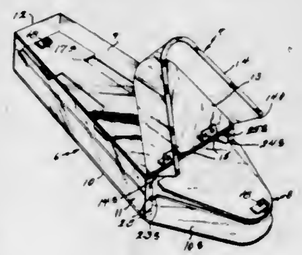
1. A device for use with a moving conveyer having a plurality of objects supported thereon at spaced intervals to group the articles on the conveyer, comprising movable means engageable by articles moving on the conveyer to retard movement of the articles, and means to position the movable means across the conveyer at predetermined intervals whereby the movable means engages selected ones of the articles to retard said selected ones relative to those adjacent while the conveyer continues to operate, and means thereafter to remove said movable means from the path of the articles at substantially the time a subsequent item arrives at the movable means so that the article may thereafter travel at the same rate.

2,612,257
NECKTIE CARRIER
Anthony A. Baur, Monroe, La.
Application October 28, 1948, Serial No. 57,103
3 Claims. (Cl. 206—7)



3. A tie carrier comprising a case made up of top and bottom sections, hingedly united, a plurality of posts rigidly carried by and projecting up from said bottom section at points spaced laterally from said hinge, and a series of individual elongated tie holders shaped to fit within said case, each holder comprising a pair of leaves connected along one longitudinal edge by a plurality of spring hinges, one of said leaves having along its hinged edge means for removably engaging said posts.

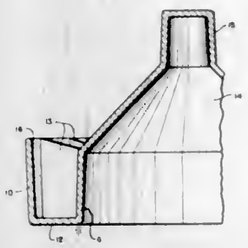
2,612,258
NECKTIE PRESS AND HOLDER
Anthony Alvin Baur, Monroe, La.
Application March 14, 1949, Serial No. 81,306
3 Claims. (Cl. 206—7)



3. A tie carrier for a plurality of individual tie holders each of which is provided with a pair of marginal edges for supporting the holders in stacked spaced relationship comprising a case having a body portion and a cover portion, said body portion including spaced, flat top and bottom walls permanently joined along portions of their peripheries by spaced, flat side wall elements, said bottom wall projecting longitudinally beyond the ends of said side wall elements, and being of outwardly tapering form, and said side wall elements having a plurality of spaced grooves disposed in planes substantially parallel to said bottom wall for the reception of the marginal edges of said tie holders, said cover portion including a continuous, flat side wall element extending between the ends of the side wall elements of said body portion, said con-

tinuous, flat, side wall element of the cover conforming with the shape of but being free from the longitudinally projecting portion of said bottom wall, and a top wall permanently attached to said side wall element of the cover portion and hingedly joined to the top wall of said body portion.

2,612,259
RADIAL HOLDER FOR TOOTHPICKS AND LIKE ARTICLES
Charles B. Overbaugh, Denver, Colo.
Application April 22, 1950, Serial No. 157,457
2 Claims. (Cl. 206—20)



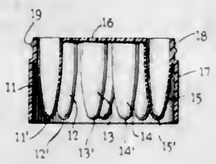
1. As a new article of manufacture, a holder for toothpicks and like articles comprising, in combination, a ringed base, an annular outer wall upstanding the outer edge of said base, an inner annular wall upstanding the inner edge of said base and merging into a frustum topped by a round knob, adapted for manual gripping, and radial partitions between said walls forming an annular series of compartments.

2,612,260
STOCKING PACKAGE
Harry E. Schoenhut, Staunton, Va.
Application January 25, 1949, Serial No. 72,628
1 Claim. (Cl. 206—46)



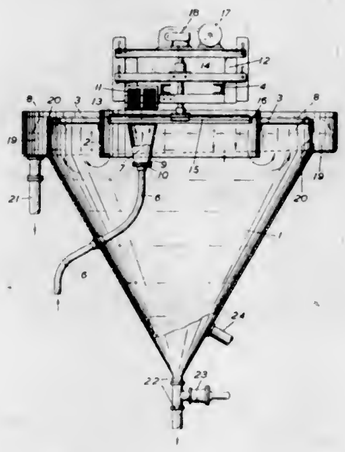
In combination, a pair of stockings folded into a mass of small compass, and a flat box-like merchandising container of relatively stiff transparent thermo-plastic sheet material whereof one side wall has a tucked-in terminal flap overlapped by and heat sealed to a corresponding edge margin of an adjacent side wall, and a swatch of fabric identical with that of the stockings with one edge portion only thereof secured in the seal between the aforesaid flap and said overlapped margin of said adjacent side wall, the other portion of said swatch extending exteriorly of the container and said swatch being of sufficient length for ready inspection and feel.

2,612,261
SUPPOSITORY PACKAGE
Michael W. Percopo, Brooklyn, N. Y., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
Application October 29, 1949, Serial No. 124,396
4 Claims. (Cl. 206—63.2)



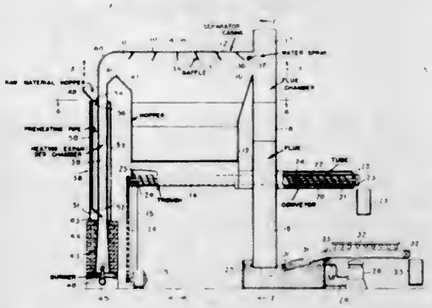
1. A package of substantially-coniform suppositories or the like, composed of: a dispensing-mold, comprising a plurality of substantially coniform, open-base shells of substantially-impervious flexible material joined together at their bases, and a substantially-rigid member depending from the plane of junction of the shells to a plane below the apices of the shells and holding the apices clear of said lower plane, the shells being so positioned with respect to each other that the apex of each can be gripped between two fingers; correspondingly-shaped suppositories in the shells; and a cap removably attached to the dispensing-mold and covering the open bases of the shells.

2,612,262
APPARATUS FOR EFFECTING MAGNETICALLY A SEPARATION BETWEEN MAGNETIZABLE AND NONMAGNETIZABLE PARTICLES CONTAINED IN LIQUIDS, SLURRIES, AND THE LIKE
Robert Symington and Laurence Hutcheson Cleat, Cheadle Heath, Stockport, England, assignors to Simon-Carves, Limited, Stockport, England, a British company
Application March 27, 1951, Serial No. 217,718
In Great Britain April 4, 1950
5 Claims. (Cl. 209—5)



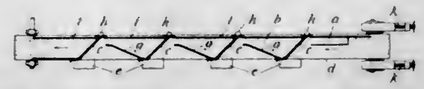
1. An apparatus for effecting magnetically a separation between magnetisable and non-magnetisable particles contained in liquid, slurry or the like comprising a settling tank, means for feeding liquid, slurry or the like to said tank, a magnet at the top of the tank for producing a highly concentrated localised magnetic field in the vicinity of the level of liquid in the tank, a collector disc of non-magnetic material mounted adjacent to the magnet and means for rotating said collector disc under the pole faces of the magnet for the purpose of intercepting magnetic particles contained in the liquid and attracted into the magnetic field and for carrying said collected particles into a position in the liquid out of said magnetic field for release and settlement in the tank, said means for feeding slurry into the tank comprising a pipe having a divergent outlet nozzle situated close to the underside of said collector disc and below said magnet for the purpose of feeding the slurry immediately into the magnetic field produced by said magnet.

2,612,263
APPARATUS FOR HEAT-TREATING MINERAL MATERIAL
Joseph V. Slavick, Albuquerque, N. Mex., assignor of three-fourths to Howard D. White, Chicago, Ill.
Application December 2, 1949, Serial No. 130,744
2 Claims. (Cl. 209—11)



1. Apparatus for expanding and collecting the expanded perlite comprising a wide horizontal casing having a substantially greater length than width, said casing including a top, sides and ends, one end being provided at the top with an inlet opening extending for substantially the entire width of the casing and the opposite end being provided at the top with an outlet opening extending for substantially the entire width of the casing, said casing including a downwardly tapering lower portion including sides arranged at a steep angle so that the expanded perlite will slide downwardly thereon, said lower portion being provided at its bottom with a trough extending longitudinally of the casing throughout the major portion of the length of the casing, a substantially vertical inlet heating chamber extending for substantially the entire width of the casing and the inlet opening and leading at its upper end into the inlet opening of the casing and having its top vertically inclined inwardly and longitudinally of the casing to direct the expanded perlite material horizontally through the inlet opening and casing, means for supplying the divided perlite and heated gases into the heating chamber throughout substantially the entire width of the heating chamber, transverse baffles arranged upon the inner face of the top of the casing and extending throughout substantially the entire width of the casing, said baffles being arranged in a longitudinal group extending throughout the entire length of the casing and throughout the entire length of the trough, the arrangement being such that the light expanded perlite will be separated out from the hot gas stream by the baffles and will be conducted to the trough without liability of clinging to parts of the casing, and a conveyer operating within the trough to remove the solid expanded perlite.

2,612,264
COKE AND LIKE SCREENING MACHINE
Frederick Joseph West and Ernest West, Manchester, England, assignors to West's Gas Improvement Company Limited, Manchester, England, a British company
Application April 19, 1949, Serial No. 88,396
In Great Britain April 21, 1948
3 Claims. (Cl. 209—90)

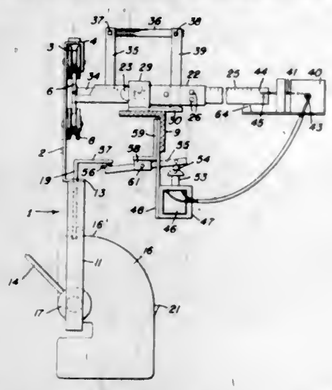


1. A machine for screening coke and kindred materials comprising an endless conveyor movable in a horizontal plane, a plurality of spaced apart substantially vertical grills supported a slight distance above the conveyor with the grills extending transversely of the conveyor at an angle to the direction of travel of the conveyor, the openings of the grills diminishing in size in the direction of travel of the conveyor whereby each grill will deliver material of a greater particle size than the openings therein off one side of the conveyor while the material of proper particle size passes therethrough toward the next grill, means defining a stop member along the side of the conveyor opposite the side off which the material of greater particle size is delivered and a deflector supported above and having a running clearance with the conveyor intermediate adjacent grills and extending angularly transversely of the conveyor in a direction opposite to that of the said grills and terminating short of the means defining the stop member and the next grill constituting a restricted opening whereby the particles passing through the grill are moved by the deflector through the restricted opening toward the end of the next grill remote from the delivery side of the conveyor so that the particles striking the next grill will travel the entire length of the said grill for proper separation.

2,612,265
TRACK SCALE FOR AUTOMATIC WEIGHING AND SORTING MACHINES
William F. Altenpohl, Philadelphia, Pa.; Kathryn M. Altenpohl, executrix of said William F. Altenpohl, deceased, assignor to Kathryn M. Altenpohl, Lower Merion, Pa.
Application October 28, 1948, Serial No. 57,076
4 Claims. (Cl. 209—121)

1. The combination with a horizontal track having a track section depressible therein, a pivotally mounted scale beam carrying said section on one end thereof and swingable on its pivot by depression of said section, and a load supporting carriage for travel along said track onto said section to depress said section, of a load supporting yoke on said carriage pivotally mounted for vertical swinging by the weight of the load thereon from load supporting to load dumping positions.

a counter-balance plate rotatable about the pivotal axis of said yoke to swing the same into load supporting position, releasable latch means



for holding said plate against rotation, and means for releasing said latch means controlled by swinging movement of said beam.

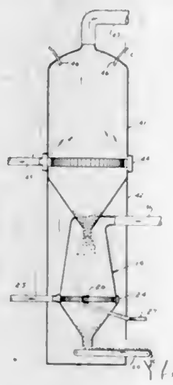
2,612,266

COOLING OF SPRAYED PRODUCTS

John Alexander Monick, New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Application October 11, 1945, Serial No. 621,715

2 Claims. (Cl. 209—139)



1. A cooling and classifying tower for treating hot, lightweight spray-dried particles which have been removed from a spray-drying tower while above a predetermined maximum packaging temperature comprising; means defining a vertically elongated chamber, the interior of which presents an unobstructed cooling passage having an inner wall of substantially circular cross-section; means at the top of said chamber for introducing said particles in a stream of air into the upper end of said passage at the axis thereof; an air outlet at the top of said chamber surrounding and above the point of introduction of said particles; a first annular air introduction nozzle around the periphery of said chamber adjacent the lower end thereof; baffle means in said nozzle for directing said air tangentially around said inner wall of the chamber in one direction; a second nozzle located at substantially the axis of said chamber and in the same horizontal plane as said first nozzle for introducing cooling air at a controlled velocity; a plurality of baffles in said second nozzle for directing the cooling air in the opposite direction around said chamber; suction means connecting with the top of the chamber for maintaining a pressure differential between the upper and lower ends of said chamber whereby the air travels turbulently upward and out of said outlet at the top of said chamber at a velocity sufficient to entrain certain of said particles; and a collecting compartment having a downwardly converging wall below said air introduction nozzles, the wall of the compartment merging with the inner wall of the chamber terminating in a product outlet through which the remaining cool particles are removed for packaging.

2,612,267

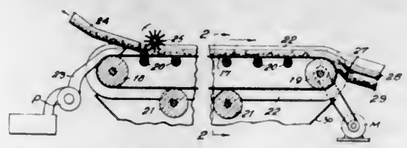
PROCESS AND APPARATUS FOR PREPARATORY DRESSING OF COAL, MINERALS, AND OTHER SOLIDS, USING A HEAVY LIQUID

Walter Vogel, Santiago, Chile

Application July 23, 1947, Serial No. 763,118

In Switzerland September 11, 1946

13 Claims. (Cl. 209—173)



1. Sink and float process of separating solid materials of different specific gravities, using a heavy liquid of intermediate density, which comprises producing a continuous non-turbulent horizontal stream of the heavy liquid having a sufficient depth and length to carry out the separation, and ending in a free fall of the whole width and depth of the stream, by conveying the liquid on a conveyor at a velocity equal at least to one-half of the square root of twice the product of the constant of gravity multiplied by the depth of the liquid, the liquid being fed in the whole width and depth of the stream with the same velocity as the conveyor, feeding the materials to be separated upon the stream at its beginning, cutting the stream horizontally after its having left the conveyor at the free fall, thus dividing it into different layers carrying the particles of the solid materials of different densities, taking the separated products from each layer of the heavy liquid, and returning the heavy liquid to the feeding point of the stream.

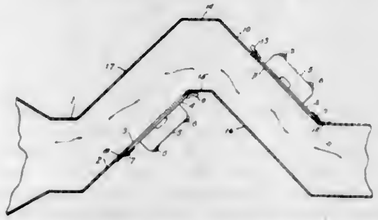
2,612,268

MAGNETIC SEPARATOR

Robert F. Merwin, Erie, Pa.

Application August 8, 1947, Serial No. 767,415

3 Claims. (Cl. 209—223)



1. A magnetic separator comprising an inclosed duct having a substantially horizontally disposed bottom for transporting material at high velocity, an angularly offset portion intermediate said duct defining an inclined wall at an obtuse angle with relation to the bottom of said duct, and a removable, comparatively flat faced magnetized member substantially the width of said duct and disposed in said inclined wall in the path of the flow of material in said duct, a substantial portion of the face of said magnetized member being disposed above the longitudinal plane defined by said duct and out of the direct path of material flowing in said duct, and a reversely inclined portion defining an inclined wall reversely inclined with respect to said first mentioned inclined wall and at substantially right angles thereto.

2,612,269

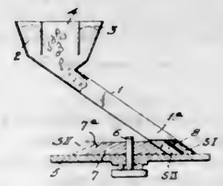
APPARATUS FOR THE SPECIFIC GRAVITY CLASSIFICATION OF BULK SUBSTANCES

Walter Vogel, Santiago, Chile

Application July 23, 1947, Serial No. 763,121

In Switzerland September 11, 1946

6 Claims. (Cl. 209—422)



1. In an apparatus for separating materials according to specific gravities, the combination of an inclined trough having upper and lower ends, said trough confining a flowing stream of finely granulated stratified separating medium and material to be separated therein and said trough being at least slightly more inclined than the natural angle of repose of said medium so that the mass of medium and materials flows downwardly, means at the upper end of the trough for feeding the materials to be separated and the medium to the trough, rotatable conveying means at the lower end of the trough rotating in such direction as to continue the flow of said stream in an arcuate path, said conveying means receiving and carrying strata of said stream at different velocities corresponding to the radius of the circle they have to follow, said conveying means comprising a rotatable plate and a truncated cone-shaped member mounted above the plate having its conical surface sloping in the plane of the bottom of the trough, and means mounting said member for movement eccentrically of the plate for pushing the strata and materials therein discharged from the trough to the perimeter of the plate for separate removal.

2,612,270

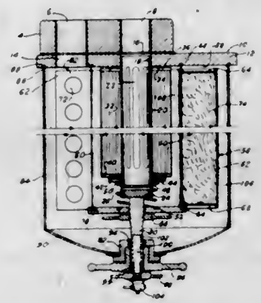
TWO-STAGE FILTER

Warner Lewis, Jr., and Lloyd T. Clifton, Tulsa, Okla., assignors to Warner Lewis Company, Tulsa, Okla., a corporation of Delaware

Application February 12, 1951, Serial No. 210,525

3 Claims. (Cl. 210—131)

3. In a filtering device comprising a head plate, inlet and outlet apertures in the head plate, a slotted tube secured in the outlet aperture and extending downwardly from the head plate, a plug in the lower end of the slotted tube, a rod secured to the plug and extending downwardly therefrom, a surface type filter element surrounding the slotted tube, means for sealing the opposite ends of said filter element to the tube and supporting said filter element on the tube, a tubular repack unit telescoped over the filter element, said repack comprising a perforated inner tube and outer tube, caps for securing the opposite ends of the outer tube to the inner tube, means for sealing the upper end of the inner tube to the head plate, a retaining plate carried



on said rod for supporting the repack and sealing the lower end of the repack inner tube, a volume type filtering medium in the repack, a housing telescoped over the repack, and means on said rod for retaining the housing in sealing contact with the head plate, said housing providing a passageway communicating with the inlet aperture and the outer surface of the repack.

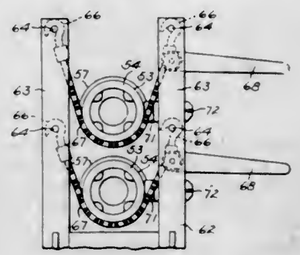
2,612,271

ROLLING MILL COUPLING BOX SUPPORT

Myles Morgan and Joseph M. O'Malley, Worcester, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts

Application November 8, 1947, Serial No. 784,802

3 Claims. (Cl. 211—1)



1. A support for the roll coupling boxes of a horizontal rolling mill, comprising a frame having two horizontally spaced upright members adapted to receive the coupling boxes between them, and two sling hoists located one above the other and extending across from one upright member to the other in the form of U-shaped loops adapted to carry the weight of the coupling boxes during roll changes in the mill.

2,612,272

BOOKCASE

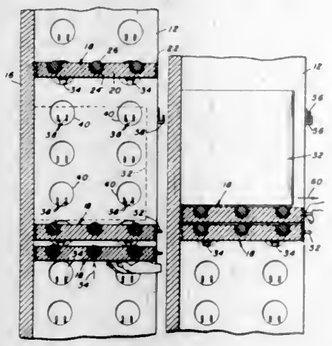
William B. Cobbs, Tuscaloosa, Ala.

Application August 8, 1949, Serial No. 109,167

1 Claim. (Cl. 211—42)

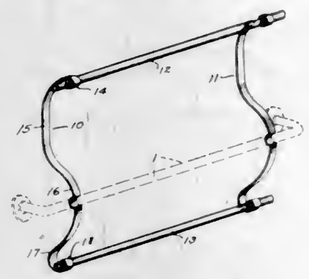
In a book case, the combination of a pair of spaced upstanding side walls, retractable supports projecting inwardly from opposing surfaces

of said walls, a removable book receiving shelf positioned on said supports, a second shelf having a set of rotatable rollers thereon, said second shelf being receivable between said supports and



the first shelf for supporting said first shelf on said supports whereby the underside of said first shelf may engage said rollers, and a removable book retaining member extending transversely between said side walls above said shelves.

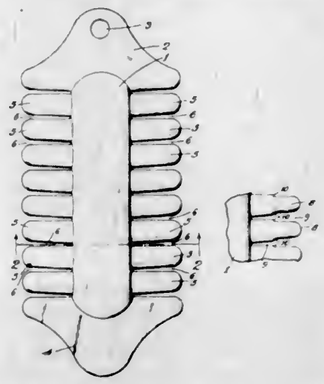
2,612,273
SUPPLEMENTARY FIXTURE SUPPORT
George Donald Smith, Toledo, Ohio
Application March 1, 1947, Serial No. 731,746
2 Claims. (Cl. 211—86)



1. A supplementary support adapted to cooperate with an existing towel bar or the like which projects outwardly from and is fixed to a wall, which comprises spaced vertical flexible side members each of which has a bar-receiving indentation therein, legs extending inwardly above and below the indentation a distance such that deformation of the legs is required to position the supplementary support on a towel bar or the like, bearing surfaces on each of said legs adapted to engage the wall so that deformation of the legs results in resilient pressure of said indentation against the towel bar, and a load bearing member extending between said side members.

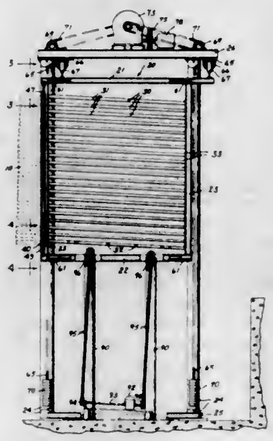
2,612,274
RACK
Lyman E. Earll, Berwyn, Ill.
Application May 24, 1946, Serial No. 672,085
5 Claims. (Cl. 211—89)

1. In combination in a tie rack, a main body part having substantially parallel sides, a top member, said member shaped for engagement with a support, and a plurality of oppositely positioned tapered finger members extending laterally from said main body member, each finger being shaped to provide with an adjacent finger an inwardly tapered slot the inner extremity of



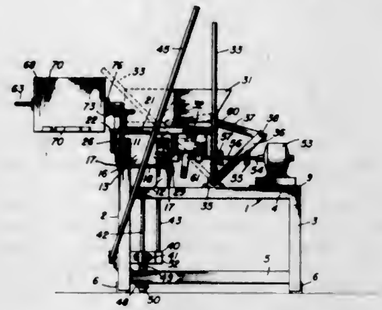
which is defined by the juncture of each two adjacent fingers with said main body part, said fingers being shouldered intermediate their ends.

2,612,275
PRESS UNLOADER AND SHUTTER
Ralph Chapman, Corvallis, Oreg., assignor to Chapman Forest Utilization, Inc., Corvallis, Oreg., a corporation of Oregon
Application April 10, 1948, Serial No. 20,337
3 Claims. (Cl. 214—1)



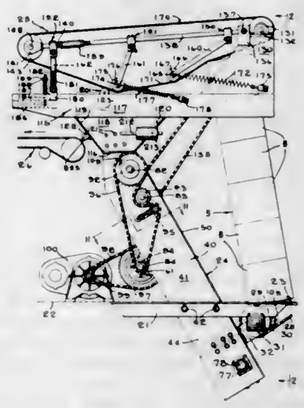
1. An unloader for a multiple platen fiberboard press comprising a rack having a plurality of vertically superimposed shelves each adapted to receive one of a plurality of boards from said press, a shutter mounted upon said rack at the side from which the boards are fed thereinto comprising a plurality of vertically spaced, fixed vanes and a plurality of vertically spaced, movable vanes normally bridging the spaces between said fixed vanes, means to elevate said rack to a position alongside of said press and to lower said rack to a position below said press, means for moving said movable vanes to open the spaces between said fixed vanes when said rack approaches the upper limit of its movement, and means automatically to feed boards deposited in said rack serially from the rack as it is being lowered.

2,612,276
UNLOADING MECHANISM FOR CONCRETE BLOCK MOLDING MACHINES
Carl W. Claytor and John W. Hendricks, Hartford, Ill.
Application August 5, 1947, Serial No. 766,400
3 Claims. (Cl. 214—1)



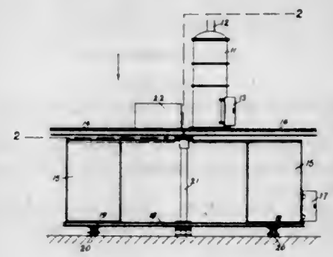
1. In a concrete block machine of the class operative for elevating a molded block on a platen out of and above a mold, unloading mechanism for said block and platen comprising a horizontal arm pivotally mounted on the machine for revolving about a vertical axis, a turntable carried by said arm for revolving thereby into a loading position opposite said platen and mold and into an unloading position, means on said turntable for straddling said block and platen to pick up the same when the turntable is revolved into loading position, said turntable being rotatable on said arm to invert said block and platen and position the platen uppermost, and drive means for rotating said turntable rendered operative by revolving said turntable from loading to unloading position comprising mutilated gearing idling during initial revolving of said turntable toward unloading position.

2,612,277
BOX DUMPER
Ernest A. Verrinder, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application May 24, 1951, Serial No. 227,978
11 Claims. (Cl. 214—1.1)



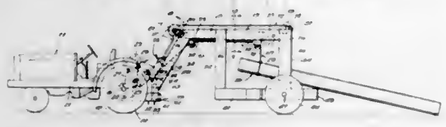
5. In a box dumper the combination of: means for delivering a loaded open top box into a non-inverted position; a fulcrum member mounted pivotally on a horizontal axis disposed close to one side of said box; means for applying a rotative bias to said member resisting rotation thereof away from said box, and returning said member to its original position when it is released; a loose product conveyor on the opposite side of said fulcrum member from said box; an empty box conveyor disposed above said product conveyor; and means for propelling said box against said fulcrum member to rock the latter about its axis towards said product conveyor with said box resting on said fulcrum member until the leading edge of the lower side of said box approaches close to said product conveyor and said box assumes a semi-inverted position causing product therein to gravitate therefrom onto said product conveyor said box propelling means continuing to operate on said box to propel the latter, when emptied, onto said empty box conveyor.

2,612,278
INSTALLATION FOR COLLECTING AND HANDLING FIBROUS WASTE MATERIAL
Winston B. McGuire, New York, N. Y., assignor to P. O. M. Company, New York, N. Y., a partnership firm
Application May 5, 1949, Serial No. 91,442
1 Claim. (Cl. 214—16)



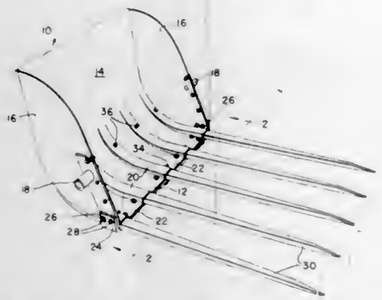
In an installation for the centralized collection of different fibrous waste materials from outlying locations and the classification and storage of the different waste materials, the combination comprising spaced upper and lower horizontal walls; a vertical pillar extending between said walls; a substantially circular horizontal platform adjacent said lower wall and rotatable about said pillar as an axis; means, including a circular track concentric with said platform and rollers travelling said track, supporting said platform on said lower wall; a circumferential series of open top bins fixed around the periphery of said platform and extending toward said upper wall, the inner periphery of said series of bins being spaced substantially from said pillar; at least one stationary waste receiver supported on said upper wall between the inner periphery of said bin series and said pillar and connected to waste lines leading to the outlying location; and means on said upper wall connected to said receivers to draw material through the waste lines into the receiver; said upper wall being formed with openings each aligned radially with a receiver and vertically with the series of bins and extending between the inner and outer peripheries of said bin series, each receiver having a side discharge opening aligned with the associated upper wall opening; whereby said platform may be rotated to align a selected bin with a selected upper wall opening to receive material from the receiver associated with the selected wall opening.

2,612,279
WEIGHT-SHIFTING LOGGING SULKY
Lovel Reynolds Simmons, Jackson Miss.
Application March 29, 1949, Serial No. 84,214
3 Claims. (Cl. 214—65.3)



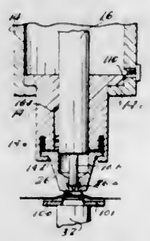
1. In a logging sulky; a frame having an unobstructed open bottom and an unobstructed rear end, said frame comprising laterally spaced side portions and a fore and aft extending track spaced upwardly from the bottom of said frame; a tongue extending forwardly and downwardly from the front end of the track; a plurality of load-carrying sheaves; means mounting said sheaves for independent movement upon and lengthwise of said track; stub axles respectively upon lower parts of the side frame portions and disposed between the ends of the track; means for adjusting one of the sheaves within a range lengthwise of the track and extending both forwardly and rearwardly of side axles; and means for adjusting the other sheave within a range lengthwise of the track and extending at least partially rearwardly of side axles; and ground engaging wheels respectively upon said axles.

2,612,280
BUCKET OR SHOVEL CONSTRUCTION FOR LOADERS
Harold M. Stueland, East Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 25, 1949, Serial No. 112,348
2 Claims. (Cl. 214—145)



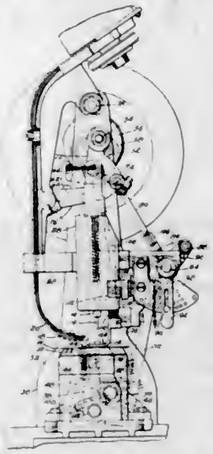
1. A bucket or shovel of the character described, comprising: a plate having top and bottom surfaces and a horizontal forward part including a leading edge and extending horizontally rearwardly and then curving upwardly as a rear trailing part so that the top surface blends into a forwardly facing inner surface and so that the bottom surface blends into a rearwardly facing outer surface, the forward part of the plate being formed with a plurality of elongated fore-and-aft extending corrugations raised above the top surface and providing a plurality of inverted channels opening forwardly to and spaced transversely across the leading edge of the plate and also opening downwardly to the plane of the bottom surface of the plate, said corrugations beginning at said leading edge and extending rearwardly throughout the length of the forward part of the plate and extending further into the curved trailing part, said corrugations thinning out in vertical dimension in the zone in which said top surface of the plate blends into said forwardly facing inner surface so that the rear upper portions of the corrugations fair into said forwardly facing inner surface; a separate transverse member at the underside of the forward part of the plate having a flat upper surface abutting the undersurface of the plate between the channels and closing the bottoms of the channels to provide, with the channels, a plurality of forwardly opening, rearwardly extending pockets at the leading edge of the plate; extension means ahead of the plate and having a plurality of rearwardly extending fingers respectively received in the pockets and nested in the channels, each of said fingers being of substantially uniform width and thickness throughout the portion thereof received in the associated channel, and said width and thickness being substantially equal respectively to the vertical and transverse dimensions of the associated channel at the leading edge of the forward part, said fingers extending rearwardly at the bottom surface of the forward part coextensively with the horizontal extent of the bottom surface and being curved upwardly to conform to the curvature of the outwardly facing outer surface of the rear part of the plate; means securing the transverse member to the plate respectively intermediate the corrugations, with the fingers between the member and the plate; and a plurality of connecting elements, one for each finger, securing the fingers directly to the curved rear part of the plate.

2,612,281
SUPPORT AND STRIPPER
William A. Erhardt, Jr., Philadelphia, Pa., assignor to Conso Fastener Corporation, Philadelphia, Pa., a corporation of New York
Original application December 19, 1946, Serial No. 717,223. Divided and this application April 1, 1949, Serial No. 85,008
4 Claims. (Cl. 218—5)



1. In a machine for attaching grommets, eyelets, snap-fasteners or like elements to a tape or the like; a downwardly-directed vertically reciprocable punch, a ram-housing, a jaw-carrying slide vertically movable within said housing, said slide having a central opening through which said punch extends, said slide being constructed and arranged to move downwardly with said punch during the punching stroke, a pair of cooperating jaws pivotally carried by said slide and having opposed gripping surfaces formed thereon, means for feeding an individual element into position intermediate the opposed gripping surfaces of said jaws and in line with said punch, said opposed gripping surfaces being somewhat spread apart by said element, a stationary anvil disposed below said gripping surfaces and in line with said punch, said anvil being constructed and arranged to hold a complementary element in vertical alignment with the first-mentioned element, downward movement of said punch on its punching stroke causing the lower end of the punch to move from a point above said opposed gripping surfaces to a point below said gripping surfaces thereby to engage said first-mentioned element and thereafter to force it downward from between the said opposed gripping surfaces and into locking engagement with said complementary element carried by the anvil, said jaws being constructed and arranged to pivot when said first-mentioned element is displaced so as to bring the jaws closer together and into overlying relationship to the displaced element, and stop-means for delaying the return movement of said slide and said jaws during the upward return movement of said punch until after the lower end of the punch has returned to a point above said gripping surfaces whereby the contracted ends of the jaws prevent the displaced element from moving upward any substantial distance with said punch and thereby serve to strip said element from said punch.

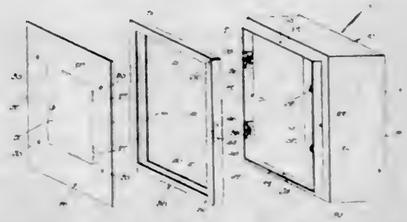
2,612,282
EYELETING MACHINE
Sylvester L. Gookin, Quincy, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 16, 1950, Serial No. 179,740
9 Claims. (Cl. 218—15)



1. In an eyeleting machine of the type in which a power-operated tool cooperates with a clenching anvil to drive an eyelet through an imperforate area of a work-piece and clench it, a pin located centrally in the anvil and telescopically related thereto, power-operated means for ejecting the pill from the clenched eyelet by thrusting said pin through the latter, and means arranged to brace the work-piece against the thrust of said pin.

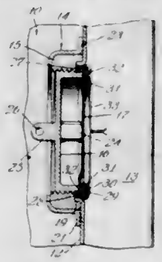
2,612,283
CONVERTIBLE FLUSH AND SURFACE MOUNTABLE PANEL BOARD BOX
Thomas M. Cole, New York, N. Y., assignor to Federal Electric Products Company, Newark, N. J., a corporation
Application October 7, 1949, Serial No. 120,122
2 Claims. (Cl. 220—3.6)

1. In a panel box, the combination comprising a cabinet having a front opening, a peripheral side wall having an inwardly extending shoulder provided with an offset peripheral wall portion defining said front opening, a removable one-piece unitary frame interfitting with said offset wall portion around the latter externally thereof, said frame being U-shaped in cross section, one leg of said U-shaped frame being in abutment with said shoulder and the base of said U constituting a continuous peripheral wall flush with the outer surface of said side wall rearwardly of said shoulder, a trim member for the front of said cabinet, securing elements provided on the inner surface of said offset wall portion, releasable securing members interengaging said



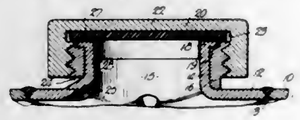
trim member and said securing elements for removably securing said trim member to said offset wall portion, the base of said U extending forwardly of said shoulder to said trim member, whereby said frame is held in position solely by said shoulder and said trim member when the latter is secured in position, and projections provided on the outer surface of said offset wall portion adjacent said shoulder for engagement by said one leg of said frame for holding said frame in place when said trim member is removed.

2,612,284
CLOSURE CONSTRUCTION FOR METALLIC CONTAINERS
Jacob Rush Snyder, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application May 28, 1949, Serial No. 95,919
6 Claims. (Cl. 220—39)



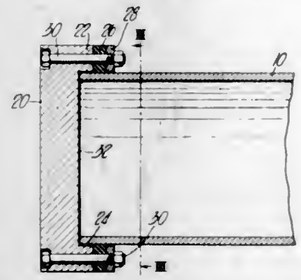
3. A bung bushing assembly comprising a drum head defining a bung hole, said drum head having an inwardly extending flange surrounding the bung hole, a polygonal-sided bushing ring defining a threaded bore and a counterbore, said counterbore snugly receiving said flange, and a generally cup-shaped polygonal-sided housing snugly surrounding the bushing ring, said housing defining an aperture in registry with the said bung hole and having a peripheral flange attached in abutting assembly on the inside of the drum head, whereby the bushing ring will be concealed behind the drum head in position for receiving a closure bung, and a substantially cup-shaped externally threaded closure plug threaded in the bore of the bushing ring, said plug having a non-threaded reduced diameter cylindrical portion terminating in a radially extending flanged rim, the rim adapted to lie substantially flush with the drum head when the plug is assembled in the bushing.

2,612,285
FILLER OPENING FOR CONTAINERS
Ernest H. Benson, Kansas City, Mo.
Application March 6, 1950, Serial No. 147,811
8 Claims. (Cl. 220—39)



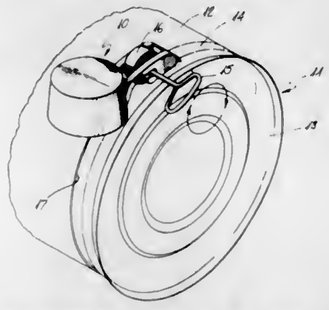
6. In an article of the character described, a wall having an opening therethrough with an integral outwardly extending annular flange encircling said opening, a concentric collar encircling and closely circumscribing said flange, one end of the collar being seated against said wall and the other end having a circumferential rabbet at the juncture of said other end and the bore of the collar, the outermost end of said annular flange having a lip projecting radially into said rabbet to secure said collar against axial movement away from said wall, the bore of said flange having an annular groove intermediate the ends of the bore, a sleeve of thin material lining the portion of the bore of the flange between said groove and the outer end of the bore, said sleeve having at one end an outturned rim seated in said groove, the other end of said sleeve having an integral portion turned radially outward over said lip to form an annular facing therefor with a marginal portion turned inwardly over the marginal edge of the lip and extending into said rabbet, said last portion being clamped between the marginal edge of said lip and the inner edge of the rabbet to anchor said sleeve.

2,612,286
CLOSURE AND SEAL THEREFOR
John W. Stufft, McKeesport, Pa., assignor to United States Steel Corporation, a corporation of New Jersey
Application April 29, 1947, Serial No. 744,596
1 Claim. (Cl. 220—46)



A closure head for closing the ends of plain end pipe sections against fluid test pressure applied thereto to collapse the pipe, said head being designed to seal the ends only of the pipe against the test pressure without affecting the pressure required to cause collapsing of the pipe sections, said head comprising a metal disc member of larger diameter than the pipe to be tested, a counterbore on one side of said disc forming an annular flange around the outer edge thereof, said counterbore being adapted to receive and closely encompass throughout the depth thereof an end portion of a pipe section to be tested, the bottom of said counterbore being adapted to abut the annular end portion of the pipe, an annular elastic sealing gasket on the end of said annular flange, said gasket having approximately the same inside diameter as the outside diameter of a pipe to be tested, means to compress said gasket to lessen the inside diameter thereof to hold said head on a pipe to be tested and initially seal the inside of the pipe from the testing fluid said means comprising a ring member having a bolted connection to said head, said ring member being adapted to closely encompass the pipe through the full width of said ring, and a removable circular gasket disposed in the bottom of said counterbore adapted to be compressed between the annular end portion of a pipe section to be tested and said head and seal the inside of the pipe section from the test fluid when the full test pressure is applied thereto.

2,612,287
CAN TEAR STRIP GUIDE AND MEASURING CUP
Roger M. Snook, San Francisco, Calif.
Application April 4, 1950, Serial No. 153,858
9 Claims. (Cl. 220—52)

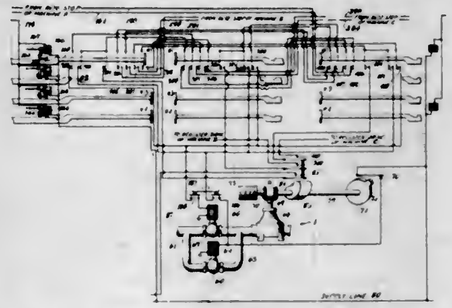


8. A can opener guide comprising an elongated body portion having a longitudinal slot formed therein to receive a coil of winding band as the same is detached from a can body and is coiled about a key, and a key retainer member fixed to and spaced from said body portion to define a U-shaped recess for receiving a can opener key, said key retainer member being bifurcated to form a continuation of the slot in said body portion, said continuation being open at its outer end, said body portion being formed at one end with a prying member and having a measuring cup fixed to its other end.

2,612,288
APPARATUS FOR SELECTIVE OPERATION OF REGISTERS IN LIQUID DISPENSING MECHANISMS
Charles S. Hazard, New York, N. Y., assignor to Neptune Meter Company, a corporation of New Jersey
Application November 14, 1945, Serial No. 628,551
3 Claims. (Cl. 222—26)

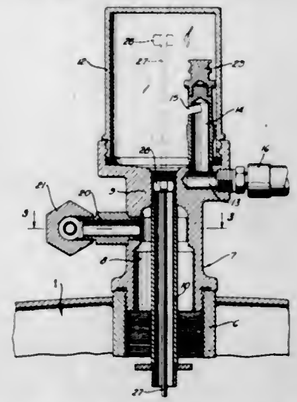
1. Dispensing apparatus comprising a plurality of registers, a measuring device, an electric circuit for connecting said registers to said measuring device, electrically energizable means in said circuit for controlling passage of material through said measuring device, an element for each register selectively actuatable to a position to close contacts in said circuit to connect the register with which said element is associated to said measuring device and to energize said electrically energizable means to control said passage of material through said measuring device, and means operatively connected to said

elements and effective when the element associated with a selected register is in said actuated position to engage the elements associated with



the other registers to prevent actuation of said other elements which otherwise are actuatable to energize said electrically energizable means to operate said measuring device.

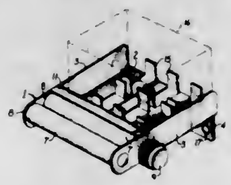
2,612,289
AUTOMOBILE CRANKCASE OIL DRAINING APPARATUS
Frederick A. Koester, Los Angeles, Calif.
Application April 6, 1950, Serial No. 154,239
4 Claims. (Cl. 222—51)



1. An oil removing apparatus for automobile crankcases, involving: a tank; a body member affixed to the top of said tank; said body member having a vertical bore constriction, and a vacuum port below said constriction; an intake conduit communicating with said oil port and adapted to be inserted in the crankcase of a vehicle; a tube secured in said constriction and extending into said tank; an aspirator having a vacuum inlet communicating with said vacuum port to create a vacuum in said tank; a transparent dome covering the upper end of said body member whereby said oil port is subjected by reason of communication through said tube to the vacuum pressure in said tank.

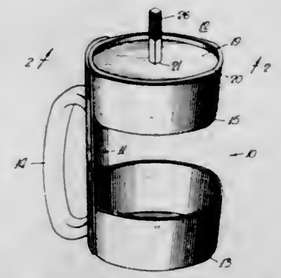
2,612,290
COLLAPSIBLE TUBE SQUEEZER AND BRUSH HOLDER
Nat Lipton, Long Beach, Calif.
Application October 22, 1947, Serial No. 781,473
3 Claims. (Cl. 222—93)

1. An article of manufacture comprising a one-piece integral member including a depending flange at one end adapted to be secured to a supporting wall; a forwardly extending wall including a flat wall portion lying in a horizontal plane integral with the top edge of said depending flange and a forwardly curved wall portion upwardly rising from the plane of the flat wall portion for downwardly guiding an emptied portion of a tube dispenser; said flat wall portion having spaced longitudinally elongated perfora-



tions therein for carrying tooth brushes; and spaced, rigid, upstanding flanges for reinforcing said forwardly extending wall for rigidity, each integral with a side edge of said flat wall portion and extending entirely along the length of said side edge and each having a forward extension spaced from said curved wall portion; said forward extensions being provided with spaced aligned ports for supporting tube dispensing roller means.

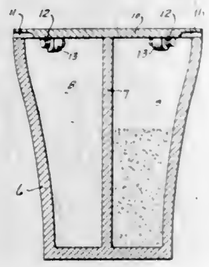
2,612,291
COMBINED DISPENSER AND RECEPTACLE FOR CLEANSING DENTURES AND OTHER ARTICLES
Harry Cohn, Brooklyn, N. Y.
Application July 12, 1950, Serial No. 173,321
1 Claim. (Cl. 222—117)



A combined dispenser and receptacle for use in cleaning dentures and other articles, comprising, in combination, a vertically extending support, a handle on one side of said support, a dispenser for finely divided solid material secured to the upper end of said support on the other side thereof, a receptacle secured to the lower end of said support on the said other side thereof and disposed in substantially longitudinal alignment with said dispenser in position to receive finely divided solid material discharged by said dispenser, said receptacle being spaced from said dispenser so that the combined dispenser and receptacle can be positioned with the receptacle beneath the discharge spout of a water faucet to receive water therefrom, said dispenser comprising a container having openings in the base thereof, a discharge plate rotatably mounted in said container, said discharge plate having the top surface thereof of concave shape and having openings in the lowermost portion of the concavity which openings upon rotation of said plate are adapted to register with the openings in the base of said container, a cover for said container.

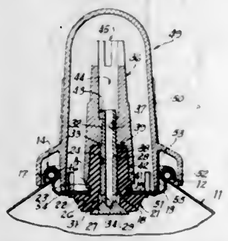
said cover having a centrally disposed opening therein, and a spindle extending from said discharge plate through the opening in said cover, said spindle having an extending portion arranged to be engaged by the user to effect rotation of said discharge plate.

2,612,292
CONDIMENT DISPENSER
Harrison M. Von Duyke, Wilmington, Del., assignor to Von Evan, Inc., Avondale, Pa., a corporation of Delaware
Application January 29, 1947, Serial No. 724,944
6 Claims. (Cl. 222—142.4)



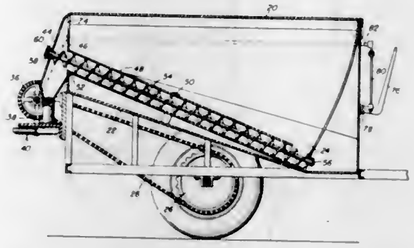
1. A condiment dispenser comprising a container having a smooth top marginal edge, a closed top lid removably secured on said container and having its marginal portion normally extending over and engaging the top edge of the container, said marginal portion of the lid having on its under face an indentation extending from the outer edge of the lid toward the center thereof beyond the top edge of the container thereby providing, when the lid is positioned on the top of the container, an opening for the sidewise discharge of the material from within the container, and spring means for normally holding the lid on the top of the container, said holding means permitting the lid to be readily removed for the purpose of clearing the discharge opening of any of the material which may lodge therein.

2,612,293
CONTAINER CLOSURE MEMBER HAVING A DISPENSING VALVE THEREIN
Daniel Michel, Chicago, Ill.
Application January 21, 1949, Serial No. 71,853
6 Claims. (Cl. 222—182)



1. In combination, a container for containing a fluid product under pressure, said container having an opening, a closure for said container opening having a second opening therethrough, a valve for controlling the flow of said product from said container through said second opening, said container and said closure comprising an assembly having an endless bead encircling said valve, said closure having a recess directed inwardly of said container immediately adjacent said bead, an elongated nozzle for guiding the flow of said product from said container, said nozzle extending outwardly away from said container and being operatively connected to said valve whereby a small lateral force against the free end of said nozzle causes said valve to open, and a cover removably attachable to said bead and internally recessed to receive said nozzle when so attached to said bead, said cover including an outer apron and a resilient inner member defining an annular channel for receiving said bead and for securing said cover to said bead, said recess being of such depth as to permit secure engagement of the radially inner surface of said bead by said resilient inner member of said cover and being of such scope as to permit tilting of said nozzle and said valve stem to open said valve, said channel being of such width that said outer apron may substantially engage the radially outer surface of said bead.

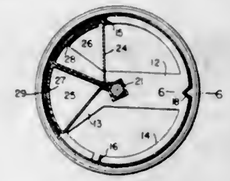
2,612,294
SEED HOPPER AND ROTARY AUGER FEEDING TO AUXILIARY HOPPER
Irvin E. Dorschner, Jackson County, Minn., assignor of one-half to Bjarne E. Grottum, Jackson, Minn.
Application April 5, 1948, Serial No. 19,005
2 Claims. (Cl. 222—252)



1. In a seeding machine, a main hopper and an auxiliary hopper, said auxiliary hopper having overflow means adjacent its top for directing seed into the main hopper, said auxiliary hopper also having discharge means adjacent its bottom for directing seed to a seeder, a conveyor tube having its inlet end adjacent the bottom of the main hopper and its outlet end opening into the auxiliary hopper intermediate said overflow means and said discharge means, and a rotary auger in said tube for moving seed through the tube from the main hopper to the auxiliary hopper, said auger projecting from the outlet end of the tube into the auxiliary hopper to constitute an agitator for the seed therein.

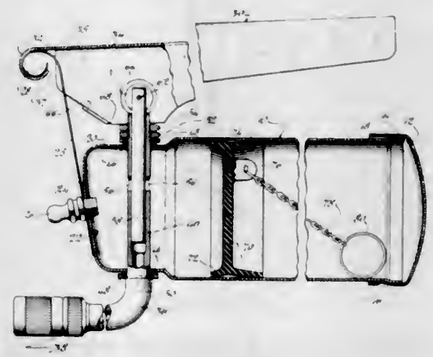
2,612,295
MEASURING AND DISPENSING TOP WITH DUAL COMPARTMENTS FILLED AND EMPTIED ALTERNATELY
Alfred Leighton Ellis, Atlanta, Ga.
Application April 11, 1951, Serial No. 220,460
3 Claims. (Cl. 222—277)

1. In a device of the class described, a hollow cap, the top of said cap being partially cut away to leave a strip thereacross diverging outwardly at one end to form a false bottom, a cover fitted snugly over said cap, a rotatably mounted shaft having one end extending downwardly through said strip and another end extending upwardly through said cover to secure said cover in place on said cap, a handle fixed on the end of said shaft extending through said cover, fastening means on the end of said shaft extending through said strip, complementary means on said cap and said cover mutually engaged to prevent rotation of said cover on said cap, said cover forming an arcuate pocket above said false bottom, a measuring element positioned in said pocket and secured to said shaft for movement therewith, said measuring element being provided with a plurality of measuring compartments, said cover being provided with a dispensing opening,



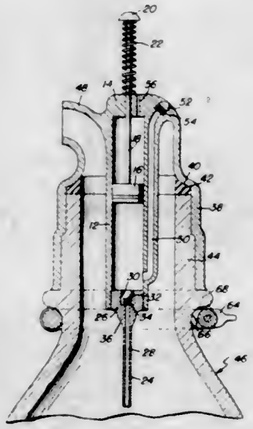
said measuring element being provided with dispensing openings communicating respectively with said measuring compartments, said measuring element being movable by said handle to bring the dispensing openings communicating with said measuring compartments selectively into registry with the dispensing opening in said cover, upturned portions on said cap to limit movement of said measuring element, said false bottom being constructed and arranged selectively to cover the measuring compartment in communication with the dispensing opening in registry with the dispensing opening in said cover and to uncover the other of said measuring compartments.

2,612,296
COMBINED GREASE PUMP AND RESERVOIR
Thomas Arthur Campbell, Chicago, Ill., and Mark Harris, Detroit, Mich., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 22, 1946, Serial No. 656,312
12 Claims. (Cl. 222—385)



1. In a lever type grease gun, a barrel, a unitary cylinder extending transversely in the barrel near one end thereof, a plunger reciprocable in the cylinder, an operating lever pivoted directly to the plunger, and a fulcrum support for said lever comprising a flexible arm secured to the barrel and extending laterally therefrom, said arm having a curled end portion and the lever having a curled terminal portion fitted thereto in pivotal engagement therewith.

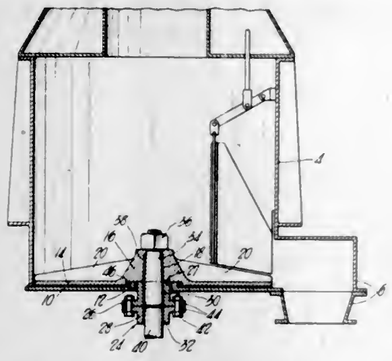
2,612,297
CATCHUP DISPENSER
Jay G. Bain, Petoskey, Mich.
Application April 25, 1950, Serial No. 158,003
2 Claims. (Cl. 222—401)



1. A catchup dispenser comprising a housing having a socket therein, a catchup container having its neck received in said socket in sealing engagement with the housing, said housing having a discharge spout communicating with the interior of said container, a pump cylinder carried by said housing and extending into the neck of the container, a piston reciprocably mounted in the cylinder and having a plunger rod attached thereto that extends upwardly slidingly through said housing, air inlet means communicating between the interior of the cylinder adjacent its lower end and the exterior of the housing and a check valve therein, an elongated conduit connected to the lower end of the cylinder having a second check valve therein preventing flow into the cylinder through the conduit, said conduit extending to a position adjacent the bottom of the container, a shoulder formed in the wall defining said socket, sealing means seated between the shoulder and the upper edge of the container neck, an annular flange on the container neck, and means carried by the housing releasably engaging said flange for removably retaining said housing in engagement with said container.

2. In a dispensing device, a container having a neck which is provided with an annular bead intermediate its ends, a jacket removably embracing the container neck, manually operable means within the neck and carried by the jacket for pumping air into the container, said jacket having a dispensing opening therethrough, and means for urging movement of the jacket into and also for holding the same in sealing engagement with the container neck, said last means including a pair of V-shaped members the apices of which are pivoted to diametrically opposed sides of the jacket, clamping bars connecting the adjacent extremities of said members, a latch having a cam surface connected to one of the bars with the other bar and said latch releasably engaging said bead.

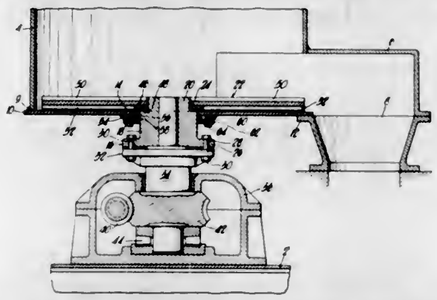
2,612,298
DISCHARGE APPARATUS FOR COAL HOPPERS
Richard D. Wearne, Crown Point, Ind., assignor to United States Steel Company, a corporation of New Jersey
Application January 25, 1950, Serial No. 140,403
3 Claims. (Cl. 222—410)



1. In a coal charging car having at least one open bottom coal hopper mounted thereon, and a downwardly extending discharge spout mounted on said car laterally adjacent the bottom portion of each hopper, said discharge spout having an entry end communicating with the interior of the hopper adjacent thereto, the improvement comprising a plate having a center opening therethrough fixedly attached to the bottom of said hopper to seal the same, rotary impeller means mounted for rotation on said bottom plate, said impeller means including a turntable, a raised center body portion on said turntable, said body portion having a vertical center opening therethrough, and a plurality of rib-like vanes on the upper surface of said turntable extending radially from said body portion, said turntable being positioned on said bottom plate with the opening in its body portion communicating with the center opening in said bottom plate, means for rotating said impeller to move coal from said hopper to said discharge spout, said last named means comprising a coupling having an upper and lower shank end mounted subjacent said bottom plate with its upper shank end rotatably fitted in the center opening of said bottom plate, a shaft having a threaded end projecting from the upper shank of said coupling and passing through the opening in said body portion, the lower shank of said coupling being connected to a power source for rotating the coupling, and a sealing ring mounted on the upper side of said bottom plate around the center opening therein.

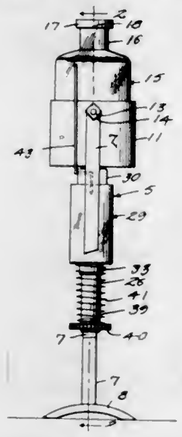
2,612,299
DISCHARGE APPARATUS FOR COAL CHARGING HOPPERS
Chester V. McCabe, Crown Point, Ind., assignor to United States Steel Company, a corporation of New Jersey
Application May 5, 1950, Serial No. 160,364
3 Claims. (Cl. 222—410)

1. In a charging hopper for coke ovens or the like having side walls and a bottom plate sealed thereto, and a discharge spout at one side communicating with the interior of the hopper, the combination therewith of a turntable spaced slightly above said plate, said turntable comprising a horizontal circular plate having a center opening therethrough, a plurality of spaced projecting ribs on both the upper and lower face of said turntable, said bottom plate having an opening therethrough communicating with the center opening in said turntable, a coupling including a separate upper and lower section removably joined together, said coupling being disposed subjacent said bottom plate with the upper section thereof projecting upwardly through the opening in the bottom plate to fit snugly in the center opening of said turntable, driving means connected to the lower section of said



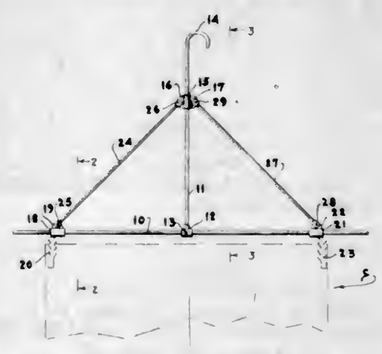
coupling for rotating the same, roller type thrust bearings for supporting the coupling, the turntable and the load thereon, a sealing ring disposed between said turntable and said bottom plate overlying the space between the projecting portion of said upper section and the edge of the opening in said bottom plate, and a seal extending around the upper section of said coupling and mounted on the underside of said bottom plate overlying the space between said upper section and the edge of said opening in the bottom plate.

2,612,300
LIQUID MEASURING APPARATUS
Frank J. Mathews, Owatonna, Minn.
Application December 1, 1950, Serial No. 198,651
1 Claim. (Cl. 222—453)



A liquid measuring apparatus comprising a vented storage container having a depending nipple extending downwardly from the storage container bottom and having a bore extending therethrough, a vented measuring container having an upper end connected to the nipple and supported thereby beneath the storage container, said measuring container having a bottom provided with a bore disposed in alignment with the nipple bore, a rod extending through the measuring container having spaced portions slidably engaging the two bores, said storage container having a passage opening into the interior thereof and into the nipple bore, the measuring container having a passage opening into its interior and into the measuring container bore, said rod having a passage connecting the storage container passage and the measuring container and movable into and out of registration with the storage container passage, and said rod having a bore adjacent its lower end having an upper end disposed for movement into and out of registration with the measuring container passage and an opposite end opening outwardly of the rod below the measuring container, stop means limiting sliding movement of the rod and normally supporting the rod with its passage in registration with the storage container passage and with its bore out of registration with the measuring container passage whereby the measuring container is filled from the storage container by gravity flow, said rod being movable upwardly to move its bore into registration with the measuring container passage and to close the storage container passage whereby the contents of the measuring container will be dispensed by gravity from the discharge end of the rod bore.

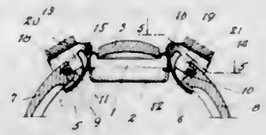
2,612,301
SKIRT HANGER
Samuel L. Rubin, Chicago, Ill.
Application July 21, 1950, Serial No. 175,035
3 Claims. (Cl. 223—95)



1. A skirt hanger of the character described comprising a crossbar, a rod connected to said crossbar substantially at the mid-point thereof and arranged substantially normal thereto, a pair of sleeves slidably mounted on said crossbar on opposite sides of the mid-point thereof, a skirt engaging member carried by each of said sleeves, another sleeve slidably mounted on said rod, and a pair of links connecting said last mentioned sleeve to the sleeves on said crossbar, there being a pivotable connection between each end of each link and the respective sleeve to which that end is connected.

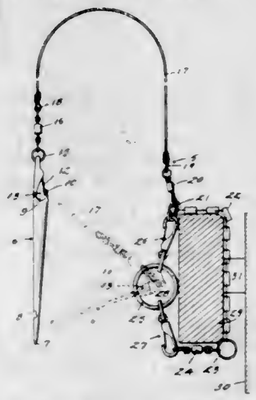
2,612,302
BRACELET
Hyman Dinstman, New York, N. Y., assignor to I. D. Watch Case Co. Inc., Jamaica, N. Y., a corporation of New York
Application April 13, 1948, Serial No. 20,692
7 Claims. (Cl. 224—4)

1. A bracelet as disclosed comprising a central body portion, a pair of arcuate clasp arms, means for pivotally supporting said clasp arms on opposite ends of said body portion, means for resiliently resisting pivotal movement of said arms and spring biased means independently



pivoted on the same ends of said body portion, said arms when pivoted an excessive amount on their pivot pins moving into engagement with said spring biased means to displace them in opposition to their spring bias.

2,612,303
FISH STRINGER
Louis M. Butler, Sauk Centre, Minn.
Application March 17, 1950, Serial No. 150,173
1 Claim. (Cl. 224—7)

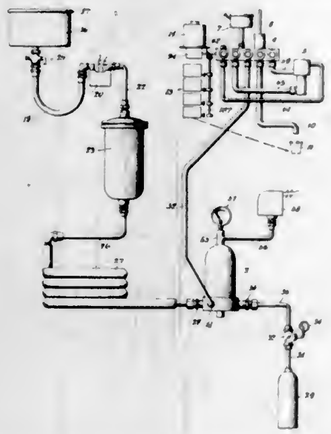


A fish stringer comprising an anchoring means engaging flexible member, a fish engaging flexible member, a split ring and swivel detachably connecting adjacent ends of said flexible members, a split ring and swivel connected to the opposite end of the first mentioned flexible member, a ring having a pair of snap hooks connected thereto, one of said snap hooks being detachably connected to the swivel of the last mentioned ring and swivel and the other of said snap hooks being detachably connected to the ring of the first mentioned ring and swivel for detachably securing the first mentioned flexible member to an anchoring means, a tapered bar forming a stringer needle connected to the opposite end of the fish engaging flexible member, and said bar being provided with a snap hook detachably engaging the last mentioned ring.

2,612,304
DRINK DISPENSING APPARATUS FOR CARBONATED BEVERAGES
Hans G. Nissen, New York, N. Y., assignor of one-half to Alexander I. Martin, New York, N. Y.
Application March 13, 1946, Serial No. 654,022
10 Claims. (Cl. 225—21)

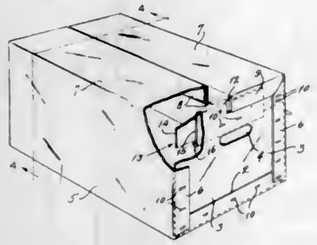
5. In a drink dispensing apparatus, the combination of means adapted to intermix liquid and gas and to produce an effervescible liquid, a pressure reducing chamber for storing said effervescible liquid under pressure for subsequent venting to atmosphere, a conduit adapted to convey effer-

vescible liquid from the intermixing means to the reducing chamber, a venting conduit connected with the reducing chamber for relieving pressure therefrom to atmosphere, a syrup container, additional conduits adapted to convey effervescible liquid from the reducing chamber and



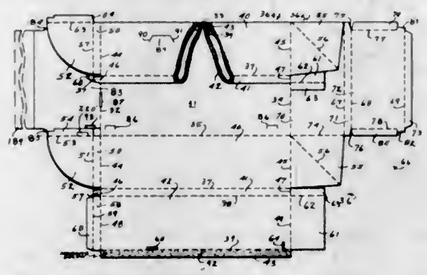
syrup from the syrup container to a discharge pipe, and flow controlling means comprising valves in said venting and additional conduits for coordinating the flow of liquids therethrough and for relieving to atmosphere pressure in said reducing chamber prior to flow of effervescible liquid from said discharge pipe.

2,612,305
CONTAINER
Arthur P. Klasing, Webster Groves, and Benjamin M. Williams, St. Louis, Mo., assignors to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application October 12, 1949, Serial No. 121,022
5 Claims. (Cl. 229—23)



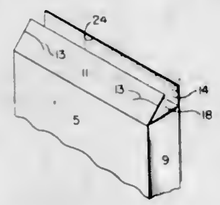
1. A wall for a container comprising a main body portion having an upper folded marginal flap including a rebent portion folded therefrom, the marginal flap defining an upper marginal edge, the rebent portion engaging the inner side of the marginal flap and an adjacent upper end portion of the wall, the flap, rebent portion and the end portion of the wall being in substantial parallelism, an elongated solid flap reinforcing rib formed by and part of the fold of the flap and the rebent portion, a substantial portion of the flap reinforcing rib extending outwardly beyond the plane of the flap at the fold, an elongated solid marginal edge reinforcing rib interiorly of, formed by, and part of the fold of the flap and the wall, the cross sectional thickness of the end edge reinforcing rib being substantially equal to the cross-sectional thickness of the rebent portion with the free end edge of the rebent portion being in abutting relationship with the end edge reinforcing rib, and means to secure the flap and rebent portion together and to the wall.

2,612,306
CARTON
William P. Frankenstein, Cincinnati, Ohio
Application July 17, 1946, Serial No. 684,298
17 Claims. (Cl. 229—31)



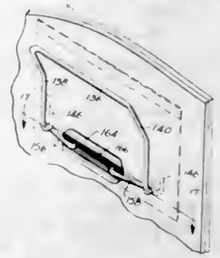
1. In a carton of the class described formed from a single blank comprising a bottom panel, side walls upwardly extending from two opposite edges of the bottom panel, tucking flaps from one end of each side wall, an end wall from one of the remaining edges of the bottom panel cooperating with the side walls tucking flaps for holding said side and end walls erected, flaps from the remaining ends of the side walls folded onto said side walls interiorly of the carton, hold down flanges at the bottom of said flaps overlying the bottom panel, a locking panel hingedly connected with the remaining edge of the bottom panel folded onto said bottom panel to engage the flaps hold down flanges so as to lock the carton in erected position and provide a three-walled carton with one side open, and means releasably securing the locking panel in hold-down flanges engaging position.

2,612,307
CONTAINER CLOSURE
Frank H. Waggoner, Ramsey, N. J.
Application December 16, 1949, Serial No. 133,238
3 Claims. (Cl. 229—44)



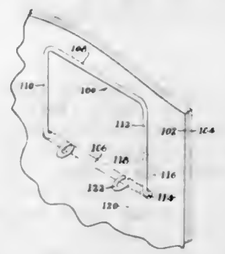
1. A top closure for a container comprising two flexible overlapping flaps, one being wider than the other, the wide one being overlapped by the narrow flap, a sealing edge of said narrow flap being normally adhered to said wider flap, cuts in the overlapped portion of said wider flap each running from a point adjacent the edge of the narrow flap to each of the side edges of the wider flap and terminating at a point spaced inwardly from the edge of the narrow flap which cuts, on the breaking of said sealed edge, form locking elements for the engagement of each end of said upper narrow flap therein to reestablish a top closure adapted to repeated opening and closing of said top.

2,612,308
BOX HANDLE AND FASTENING MEANS
Roy C. Potts, Takoma Park, D. C.
Application January 23, 1948, Serial No. 3,855
11 Claims. (Cl. 229—52)



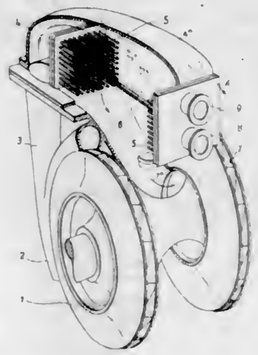
1. In combination with the wall of a container having a slotted aperture therein, a preformed unitary combination fastener and handle member formed of wire and adapted to be inserted in part through said aperture, said inserted part being U-shaped and formed to lie in part upon the surface of said wall and in part inclined at an angle thereto, the penetrating parts comprising spaced members of a length approximately equal to the thickness of the wall, the projected ends of said penetrating parts, except the extreme ends thereof, being adapted to form a dual clip with the inserted part and formed to lie in close contact with the other surface of said wall, said extreme ends being bent outwardly so as to lie when in use as elements projecting through the slotted aperture in the container wall.

2,612,309
COMBINATION HANDLE AND CLIP FOR CONTAINERS
Roy C. Potts, Takoma Park, Md.
Application December 20, 1946, Serial No. 717,570
6 Claims. (Cl. 229—52)



1. A unitary preformed wire handle and fastener member adapted for use in handling and carrying fiber board containers comprising: a transverse handle-grip segment, a downwardly extending leg at each end of the segment, the end portions of said legs lying in a single plane, a work penetrating member at the end of each leg, said work penetrating members being formed at right angles to the plane of said legs and lying in a single plane, an upturned segment at the end of each said work penetrating member looped within a plane substantially parallel to the plane of said legs, the end portions of said looped, upturned segment being turned at right angles toward the plane of said legs and lying in a plane coincidental with the plane of said work penetrating members, said end portions of said looped, upturned segments being themselves looped.

2,612,310
INTERMEDIATE COOLER FOR MULTISTAGE ROTARY COMPRESSORS
Jean Eggmann, Rugby, England, assignor to Ateliers de Construction Oerlikon, Zurich-Oerlikon, Switzerland, a corporation of Switzerland
Application September 27, 1949, Serial No. 118,107
In Switzerland October 1, 1948
2 Claims. (Cl. 230—130)

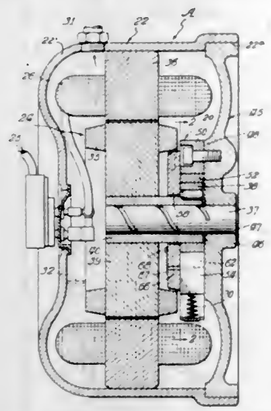


1. A multi-stage centrifugal compressor having the combination of a leading and a succeeding rotatable fluid impeller, the peripheral region of each of said impellers having therein a spiral casing, each of said casings receiving fluid from its impeller for therethrough evolving a high velocity of the fluid, the spiral casing of said leading impeller having a diffusor for converting the velocity of its fluid into pressure, an elongated housing having one end thereof joined to the outlet of said diffuser extending from said diffusor tangentially to the circumferential direction of said leading impeller, said housing having thereunder a collecting chamber joined to the inlet of the suction chamber of said succeeding impeller for conveying the fluid from said diffusor through said housing and chamber and to said succeeding impeller, and said housing having therein a cooling device for the fluid passing therethrough.

2,612,311
COMPRESSOR-MOTOR ASSEMBLY
Leland K. Warrick, Muskegon Heights, and Frank E. La Flame, Twin Lake, Mich., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application January 26, 1949, Serial No. 72,794
1 Claim. (Cl. 230—139)

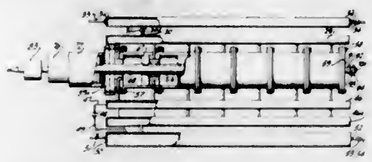
A motor compressor assembly adapted for mounting on the back surface of a refrigerator and including a first subassembly and a second subassembly, said first subassembly being telescoped within said second subassembly; said first subassembly comprising; a disc shaped end plate having a central aperture and a radial end face, a shaft having one end portion thereof fixedly received in said aperture, a relatively short sleeve member journaled on the free end portion of said shaft, a motor rotor fixed on said sleeve member, said motor rotor and said sleeve being supported

solely by the free end portion of said shaft whereby said shaft forms a cantilever support for said motor rotor and sleeve; and a compressor including an eccentric member encircling and keyed to said sleeve adjacent said radial end face, a ring member radially aligned with accentric member and secured to said radial end face of said end plate, a ring shaped rotor of less diameter than said ring member and encircling said eccentric member, a second annular plate separated from said annular end face by said ring member and secured to said ring member to provied a pumping chamber in which said ring shaped rotor is arranged for gyration, said pumping chamber having an inlet and discharge port, and a spring mounted divider member projecting into engagement with said ring shaped rotor and reciprocating upon gyration of said ring shaped rotor to provide a separation for said inlet and discharge port; said second subassembly comprising, a bell-shaped shell member, a stator including motor rotor windings, the peripheral surface of said stator being secured to the interior of said bell-shaped shell member so that the axis of said shaft is coaxial with the axis of the stator when the first subassembly is telescoped within the bell-shaped shell member, said bell-shaped shell member and said end plate defining a lubricant reservoir, a portion of said motor rotor disposed in lubricant contained in said reservoir and arranged to effect distribution of the lubricant to adjacent parts of the compressor upon rotation of said motor rotor; said first subassembly being telescoped within said second subassembly so that said motor rotor and compressor together with said radial end face of said end plate are confined within the volume defined by radial planes through the outer axial limits of said motor windings to provide a complete assembly of minimum axial dimension.



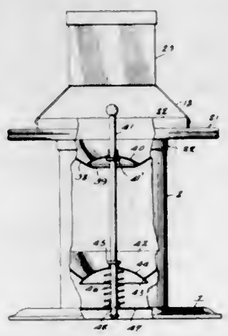
2,612,312
AIR PUMP
Vernie E. Clarke, Los Angeles, Calif., assignor to Christine Association, Inc., a corporation of California
Application November 7, 1944, Serial No. 562,364
1 Claim. (Cl. 230—185)

In combination, a concurrent air pressure and vacuum device as described having a plurality of aligned cylinders, a piston within each of said cylinders, a single piston rod connecting said pistons: a rigidly exteriorly affixed annular casing on one end of the said plural cylinders in alignment, grooves longitudinally affixed 180 degrees apart to the interior walls of said annular casing: a non-rotatable reciprocating annular member with means exteriorly thereof to engage said grooves, and means to attach the said non-rotatable reciprocating annular member to the piston rod of said device, a rotatable cylindrical member having a helical groove in the cylindrical surface



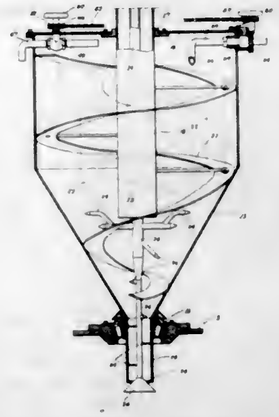
thereof, means on the interior walls of said reciprocating member to engage the said helical groove, means to position said rotatable member rigidly longitudinally within said reciprocating member so that said reciprocating non-rotating member may be reciprocated in performing its functions aforesaid in the operation of said air pressure vacuum device.

2,612,313
SMOKING STAND
James C. Williamson, Albany, Ga.
Application August 15, 1950, Serial No. 179,553
1 Claim. (Cl. 232—43.1)



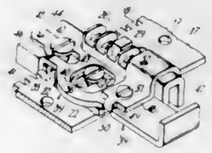
In a smoker's stand a hollow body; a receiver extending across and closing the upper end of said body, said receiver having a center opening; a bottom plate extending across the lower end portion of said body, there being defined between said receiver and bottom plate a well for accumulated ashes, said bottom plate having a center opening; a plunger mounted for up and down sliding movement upon said body and extending through said well and openings; upper and lower valve members both slidably mounted upon said plunger and positioned to normally close the openings of the receiver and the bottom plate; spaced collars rigid with said plunger, one of said collars underlying the upper valve member and the other collar overlying the lower valve member, whereby on elevation of the plunger the upper valve member will be elevated to expose the opening of the receiver and whereby on depression of the plunger the lower valve member will be depressed to expose the opening of the bottom plate; and a spring underlying the lower valve member and normally biasing said lower valve member and plunger upwardly.

2,612,314
CENTRIFUGE
Lewis L. Huelsdonk, Downieville, Calif.
Application March 28, 1949, Serial No. 83,959
7 Claims. (Cl. 233—7)



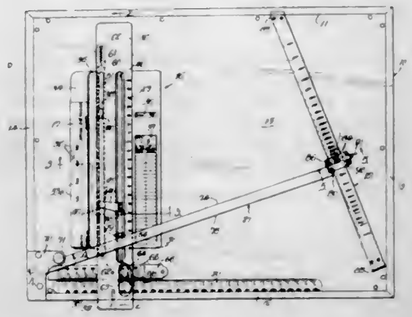
1. A centrifuge, for processing ore pulp, comprising a support, an inverted cone rotatably mounted on the support, a feed tube depending axially into the cone and rotatably mounted on the support, means to rotate the cone and feed tube, a pulp agitator on the feed tube in the cone, a valve-controlled discharge spout on the lower end of the cone, the feed tube terminating in the cone above said lower end of the latter, a hollow control rod depending through the feed tube and discharge spout, water discharge nozzles projecting from the rod below the tube, the valve of the discharge spout being mounted on and vertically adjustable by the rod, and means on the support vertically adjustably suspending the rod above the cone.

2,612,315
ACCOUNTING MACHINE CONTROL MEANS
Walter A. Anderson, Fairfield, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application December 23, 1949, Serial No. 134,624
3 Claims. (Cl. 235—60.5)



1. In an accounting machine having a traveling carriage and constructed and arranged to print and compute in a plurality of columns on a work sheet, a plurality of elements for controlling various functions of the machine, a member for instituting an automatic carriage return operation and a member for normally preventing an automatic line spacing operation but which may be moved to a position for allowing an automatic line spacing operation, a control device movable with the traveling carriage and provided with means for operating at least one of said elements, a slide carried by said control device, means for detenting said slide in a plurality of positions on said device, and means carried by said slide for operating the member for instituting an automatic carriage return operation and for moving the member for normally preventing an automatic line spacing operation when said slide is in one of its detented positions without interfering with the normal functions of said control device.

2,612,316
METEOROLOGICAL CALCULATING MECHANISM
Frederic B. Caldwell, Evanston, Ill.
Application October 16, 1951, Serial No. 251,588
5 Claims. (Cl. 235—61)

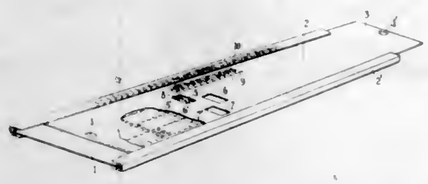


1. A meterological metering device comprising a base, a carrier slidably mounted on the base, means on the carrier for positioning a card thereon with the card having a printed column of figures indicating degree days, a pair of adjustably connected members slidably mounted on the carrier, means on one of the members for imprinting a visible indicia on the card adjacent said column, a scale on the carrier calibrated in degree days to facilitate connecting the members together in spaced relationship corresponding to the seasonal elapsed degree days, an arm having one end pivoted to the base and having a portion extending over the carrier and adapted to be contacted by the other member to position the members on the carrier, a scale diagonally arranged on the base and slidably supporting the other end of said arm and calibrated in rate of consumption of fuel per degree days, and a scale on the base adjacent the path of sliding movement of the carrier and calibrated in storage capacity whereby said carrier may be set at the proper storage capacity and said arm set at the proper consumption rate and said other member moved into contact with said portion of the arm properly to position the imprinting means to imprint said indicia on the column to indicate the number of degree days to accumulate before refilling of the storage facility is required.

2,612,317
GUIDE FOR INDICATING THE FECUNDITY RHYTHM IN WOMEN
Ghislain Van Houtte and Arthur Demeuse, Brussels, Belgium
Application August 22, 1950, Serial No. 180,794
In Belgium August 29, 1949
2 Claims. (Cl. 235—89)

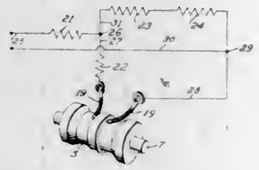
1. An apparatus for determining the date of appearance of the next menstruation to be expected and the date of the beginning and the end of the fecundity period of a determined menstrual cycle of a woman, comprising a rule on the surface of which slides a slide provided with

windows through which the indications marked on the rule and referring to the date of the beginning of the fecundity period, to the date of the end of said period, and to the date of appearance of the next menstruation to be ex-



pected, are visible, and each of the said windows refers to a well-determined type of month, like all the months relating to one and the same window having the same number of days and followed by a month having the same number of days.

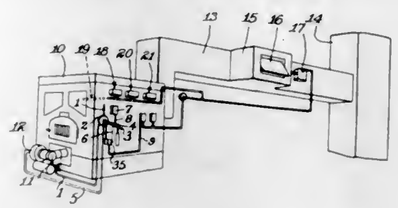
2,612,318
MONEY COUNTING MACHINE
Thomas E. Hayes, Washington, D. C.
Original application October 18, 1946, Serial No. 704,111. Divided and this application December 12, 1949, Serial No. 132,574
3 Claims. (Cl. 235—92)



1. In a paper money counting machine having a bill receiving compartment with a pair of bill feeding rollers at the entrance to said compartment and a piece counter having actuating coils associated therewith, a pair of electrical circuits in parallel receiving current from a common source, one of said circuits including said piece counter coils and the other circuit including a pair of wiper contacts engaging one roller of said roller pair, a resistance in said wiper contact circuit, and a resistance common to both circuits, the resistance in said piece counter circuit being greater than the total in said wiper contact circuit, said wiper contacts engaging said roller in such position that the passage of the bill between said roller lifts said wiper contacts from said roller.

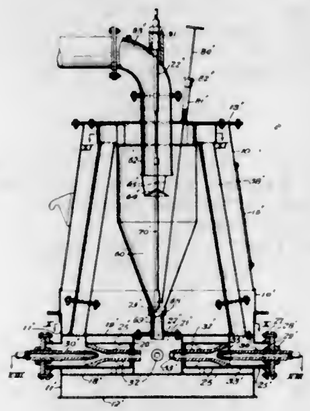
2,612,319
DRAFT CONTROL
Oscar E. Wadenstein, St. Paul, Minn., assignor, by mesne assignments, to Fuel Reduction Engineers, Inc., St. Paul, Minn., a corporation of Minnesota
Application June 3, 1949, Serial No. 97,018
8 Claims. (Cl. 236—15)

1. A damper control for use in conjunction with a furnace having a gas and smoke outlet, a by-pass into said outlet, a by-pass damper in said by-pass, and a fuel feeding mechanism which may operate at full or low speed intermittently, a first static pressure regulator for maintaining an above fire rate of draft of one relatively high value, a second static pressure regulator for maintaining an above fire rate of draft of a second relatively low value, a damper operating means, and means connecting each of said pressure regulators selectively to said damper operating means, and means controlled by the intermittent operation of said fuel feeding means for



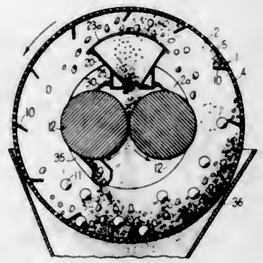
selecting the pressure regulator connected to said damper operating means, said controlled means selecting the first pressure regulator when said fuel feeding mechanism operates at full speed, and selecting a second pressure regulator when said fuel feeding mechanism operates at low speed.

2,612,320
IMPACT PULVERIZER
George M. Croft, Fox Chapel Borough, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application January 5, 1949, Serial No. 69,331
11 Claims. (Cl. 241—52)



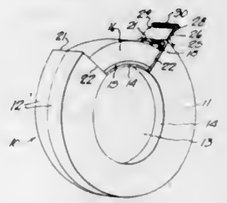
11. In an impact pulverizer using gaseous fluid for pulverizing coal particles or the like, a confined chamber forming an impact zone, a plurality of grinding jets directed toward a common intersection in said zone, said grinding jets having respective inspiration zones outside said chamber, ducts forming respective restricted passage means connecting said impact zone and said inspiration zones and adapted to recirculate non-pulverulent material to said grinding jets, upwardly extending pipes forming respective restricted outlet means substantially providing a branch of said restricted passage means, said restricted outlet means being adapted to carry off pulverulent material suspended in said gaseous fluid, and feed means adapted to deliver coarse coal particles or the like to be pulverized to said grinding jets.

2,612,321
SCREENING MILL
Carl L. Sidwell and Theodore R. Sidwell, Devertown, Ohio, assignors to Carl L. Sidwell and Theodore R. Sidwell, doing business as Sidwell Brothers, Devertown, Ohio
Application June 11, 1949, Serial No. 98,595
2 Claims. (Cl. 241—76)



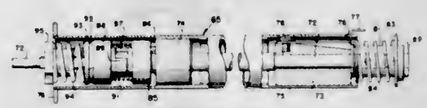
1. A screening mill comprising a rotatable cylindrical screen having a single compartment for receiving material to be broken up and having balls or rods therein, means for supplying material into the screen, baffles on the wall of the screen which serve to lift some of the material to the top of the screen, a pair of crushing rolls supported within this screen substantially at the axis thereof, and extending parallel to the axis and a single sizing and feeding unit supported above the rolls for receiving material lifted by the baffle and feeding it between the rolls, said sizing and feeding unit comprising a hopper covered with a grill which permits particles of a predetermined maximum size to enter the hopper, said hopper having a lower end with a discharge slot therein, and means for varying the width of said slot.

2,612,322
TAPE DISPENSER
Norman A. Gall, Toledo, Ohio
Application June 6, 1949, Serial No. 97,378
4 Claims. (Cl. 242—55.5)



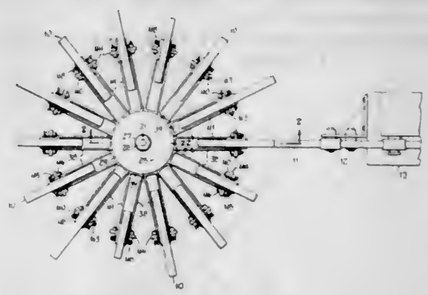
1. A tape dispenser comprising a pair of cup-shaped members each having an end portion and a substantially cylindrical portion, said cylindrical portions interfitting telescopically to define a container for encasing a tape roll, said container having a tape-discharging passage defined by registering openings in said cylindrical portions, and a tape anchor projecting outwardly from the telescoping cylindrical portion at one end of said tape-discharging passage said tape anchor extending substantially parallel to the axis of said container and overlying the telescoped cylindrical portion with clearance to accommodate separation of said cup-shaped members.

2,612,323
SUPPLY ROLL TENSION IN A MEASURING INSTRUMENT
George W. Barnes, Jr., Clifton Heights, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Original application April 12, 1944, Serial No. 530,611, now Patent No. 2,527,207, dated October 24, 1950. Divided and this application January 27, 1949, Serial No. 73,162
2 Claims. (Cl. 242—75)



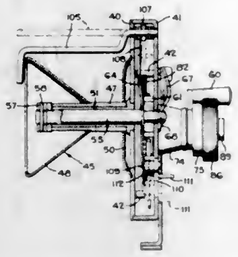
1. In a recording instrument having a chart upon which a record is to be drawn, means to hold a supply roll of the chart comprising a shaft fixed against rotation, a drum upon which a supply roll of chart is to be placed, means to rotatably mount said drum on said shaft, a first part fixed to said drum, a second part on said shaft, means resiliently tending to hold said parts in a position that is disturbed when a portion of chart is unwound from a chart supply roll, and means to frictionally maintain said second part against rotation on said shaft.

2,612,324
MATERIAL-SELECTING REEL
David M. Yorburg, Durham, Conn.
Application July 16, 1949, Serial No. 105,241
4 Claims. (Cl. 242—80)



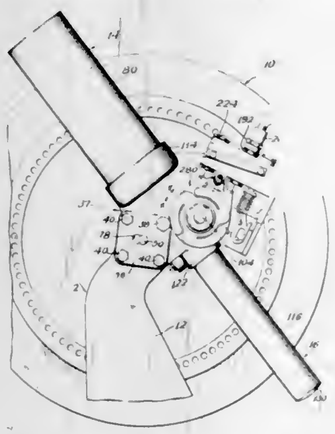
1. A reel-holding device for selectively orienting a plurality of reels opposite a feeding-station, said device comprising a base-member having a flange adjacent its upper end and a concentric shaft upstanding from said flange; a spider comprising a hub-portion engaged on said upstanding shaft for supporting said spider on said flange for rotation in a substantially-horizontal plane, and arms extending radially with respect to said hub-portion, said arms being arranged in pairs to define vertical slots for accommodating said reels; a pair of bearing-blocks for each pair of arms, said bearing-blocks being constructed and arranged to support a reel for rotation in a substantially-vertical plane between the respective pairs of arms of said spider; and friction brake-mechanism mounted on the said flange of said base-member arranged to cooperatively engage the hub-portion of said rotatable spider to hold said spider from rotating freely about the shaft of said base-member.

2,612,325
FISHING REEL
Rolly A. Johnson, Los Angeles, Calif.
Application April 16, 1948, Serial No. 21,466
3 Claims. (Cl. 242—84.7)



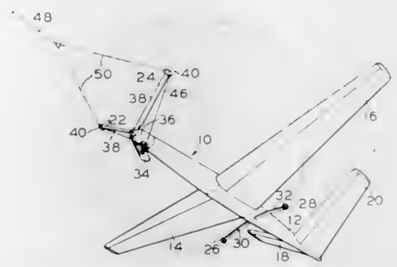
1. In a fishing reel, a gear housing, a shaft having one end extending into the gear housing, a pinion on the shaft in the housing, a gear meshing with the pinion, means for rotating the gear to drive the pinion and thus rotate the shaft, the shaft being axially slidable relative to the housing between limits which cause the gear and pinion to remain constantly in mesh, a sleeve secured to the housing and disposed about the portion of the shaft that projects from the gear housing, a spool rotatable on the sleeve, a clutch between the outer end of the spool and the outer end of the shaft, and means on the gear housing for axially shifting the shaft to cause the clutch to disengage and thus free the spool from the shaft.

2,612,326
HOSE REEL
Frederick G. Schweisthal, Skokie, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application September 27, 1950, Serial No. 187,004
11 Claims. (Cl. 242—86)



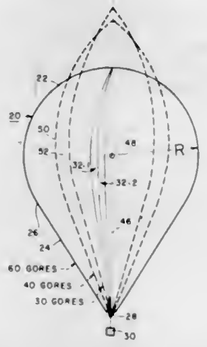
1. Reeling apparatus, comprising a reel, an air cylinder including a piston movable in a given direction to produce reeling rotation of the reel, an outlet vent, a valve for connecting the air cylinder with the vent, and means to open the valve in response to unreeling rotation of the reel to permit the gradual escape of air trapped in the air cylinder and compressed by movement of the piston in a direction opposite the given direction.

2,612,327
TOWED GLIDER WITH AUTOMATIC TOW CABLE RELEASE
Russell M. Carlson, Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 6, 1947, Serial No. 732,805
12 Claims. (Cl. 244—3)



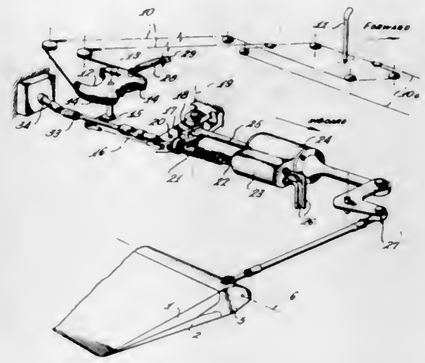
1. A glider adapted to be towed by a powered airplane including, a ground engaging member, a tow bridle having a releasable connection to said glider, means for releasing said connection upon ground engagement of said member, means for disabling said releasing means during take-off, and airspeed responsive means including a flap pivoted to said glider and projecting into the airstream operative during flight for disabling said disabling means.

2,612,328
VARIABLE VOLUME BALLOON AND METHOD OF ITS MANUFACTURE
William F. Huch, St. Paul, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application July 13, 1950, Serial No. 173,620
15 Claims. (Cl. 244—31)



1. The method of forming multiple gore balloons of different volumes and shapes with the aid of a single gore pattern designed to provide a balloon of predetermined volume and shape when a predetermined number of gores corresponding to the pattern are united, which comprises the steps of forming a plurality of gores according to the pattern, seaming one edge of a first gore to an edge of the second gore, successively seaming one edge of each additional gore to the remaining free edge of the preceding gore, and seaming together the remaining free edges of the first and last gores at a time when the total number of united gores is different from said predetermined number.

2,612,329
AILERON, FLAP, AND DIVE BRAKE
Ronald E. Crandall and John E. Glenn, Los Angeles, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application November 13, 1948, Serial No. 59,848
5 Claims. (Cl. 244—42)



1. In a control system for an aircraft, a control surface on opposite sides of said aircraft, each said surface comprising a nose section hinged to said aircraft and superposed upper and lower panels each hinged to the rear of said nose section, surface power means positioned outside of said control surfaces and connected to rotate said control surfaces about their respective nose section hinges, flap control means connected to said surface power means to move said control surfaces in the same direction simultaneously between neutral and down positions, flap follow-up means connected to said flap control means to move in exact accordance with said control surfaces as moved by said flap control means, electrically controlled hydraulic panel power means positioned in each of said nose sections and connected respectively to each of said upper and lower panels in oppositely moving relationship to move said panels between open and closed positions, electrical switching means electrically connected to energize said panel power means in either of two directions, said switching means located to be mechanically operated by movement of said flap follow-up means to energize said panel power means in the "open" direction upon the approximate reaching of said down position by said control surfaces and to energize said panel power means in the "close" direction upon the approximate leaving of said down position by said control surfaces.

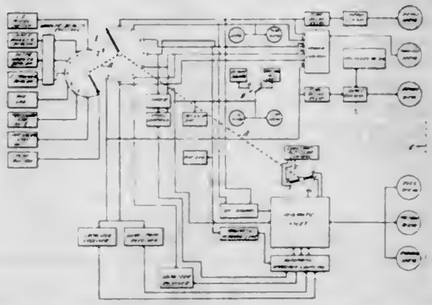
2,612,330
DEVICE FOR OPERATING CONTROL SURFACES, ESPECIALLY FOR AIRCRAFT
Gerard Lehmann, Paris, France, assignor to Office National d'Etudes et de Recherches Aeronautiques (O. N. E. R. A.), Paris, France, a society of France
Application February 15, 1949, Serial No. 76,536
In France February 27, 1948
3 Claims. (Cl. 244—75)

1. In an aircraft structure, in combination, an aircraft control surface pivotally mounted on said aircraft structure and extending toward the rear of its pivot axis, a bent lever having its two branches equal to each other and substantially at right angles to each other, the apex of the angle made by these two branches being at the front of said lever, said lever being rigid with said control surface so that said surface is located in the bisector plane of the angle made by said two branches, two flexible connections including identical springs respectively having respective ends thereof secured to the ends of said branches and extending therefrom in a general direction substantially paralled but opposed to that in which said control surface in its neutral



position extends from its pivot axis and means on said aircraft structure for imparting to the other ends of said flexible connections simultaneous displacements of equal amplitudes and opposed directions said springs being so chosen that, when said lever is at 45° to its neutral position, the spring connected to one lever branch perpendicular to the neutral direction of said control surface is not stretched.

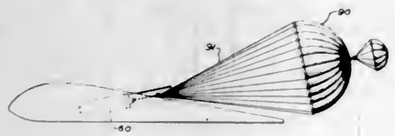
2,612,331
AUTOMATIC FLIGHT CONTROLLER
Robert L. Frazier, St. Louis, Mo., and Harry B. Breedlove, Baton Rouge, La.
Application March 19, 1947, Serial No. 735,590
24 Claims. (Cl. 244—77)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



12. In an automatic control system for aircraft, an automatic pilot for controlling movements of said aircraft through the coordinated movements of movable airfoil elements, including a rudder, on the aircraft adapted to effect aircraft control about three principal control axes designated as yaw, pitch and roll axes respectively, said automatic pilot having separate electrical signal channels corresponding to each of said control axes, means including a radio compass receiver adapted to receive signals from non-directional radio beacons and apply beacon seeking signals to the yaw signal channel of said pilot to provide for directional guidance of the aircraft to the vicinity of a preselected landing field equipped with a runway-localizer signal station and a glide path signal station, means actuated by signals from an outer marker beacon located adjacent to the last non-directional radio beacon to apply runway-localizer signals to the yaw signal channel of said pilot for guiding the aircraft to said preselected landing field along a path approximately in the same vertical plane as the longitudinal axis of the landing runway,

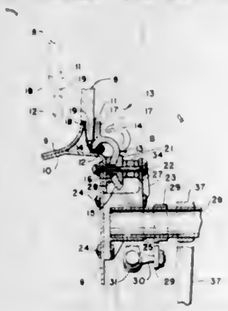
means actuated by signals from an inner marker beacon to continue application of said runway-localizer signals to the yaw signal channel of said pilot and simultaneously apply glide path signals to the pitch signal channel of said pilot, means actuated in response to contact of the aircraft undercarriage, including right and left wheels, with the runway to actuate the right and left wheel brakes differentially, and means actuated by movements of the aircraft rudder in response to said runway-localizer signals for controlling the action of the differential brake actuating means and thus effect aircraft steering along said runway in a path approximately coinciding with the longitudinal axis of said runway.

2,612,332
AIRPLANE BRAKE
Bronislaw J. Drozinski, Cleveland, Ohio
Application August 17, 1948, Serial No. 44,639
2 Claims. (Cl. 244—113)



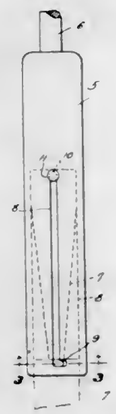
1. A parachute type brake mechanism for an airplane wing structure comprising a cylindrical chamber disposed within the wing and below the top surface thereof, said chamber extending substantially parallel to the line of flight and having the rear end thereof open to the exterior of the wing; a hinged cover for the opening; remote control mechanism for releasably securing the cover in closed position; a piston in said chamber adapted to be moved in response to pneumatic pressure in the forward end of the chamber; a parachute adapted to be carried in said chamber and anchored to said piston; and means for directing pneumatic pressure against the forward end of the piston for positively ejecting the parachute from the chamber into the air stream above the wing.

2,612,333
RELEASABLE CANOPY
Thurman C. Wood, Inglewood, Calif., assignor to North American Aviation, Inc.
Application February 8, 1949, Serial No. 75,214
12 Claims. (Cl. 244—121)



1. In a releasable canopy for aircraft, an aircraft structure, a canopy having a longitudinally extending edge arranged to be attached to said aircraft structure, said canopy edge having a flexible fabric loop enclosing a longitudinally extending element forming a canopy edge detent means, and a slidably mounted member arranged to be moved from a first position in which it clamps said fabric loop between said canopy edge and said longitudinally extending element against said aircraft structure to an opposite position in which it is disengaged from said fabric loop for the release of said canopy from said aircraft structure.

2,612,334
FISHING ROD ANCHOR
John Delamere, Denver, Colo.
Application December 9, 1947, Serial No. 790,495
1 Claim. (Cl. 248—38)

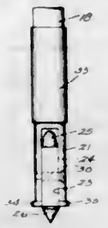


A pole anchor comprising an elongated handle, said handle having an elongated axial recess opening through the opposite end thereof, said recess being defined in cross section by relatively wide parallel side walls and relatively narrow parallel end walls, said handle having an elongated longitudinal slot extending therethrough which opens into the recess midway between opposite side edges of a side wall thereof, said slot being provided with a lateral extension adjacent the end of the handle through which the recess opens, an elongated double edge anchoring blade mounted in the recess in the handle for movement longitudinally therein from a projected position in which the major portion of the blade is exposed to a retracted position in which the blade is sheathed, the portion of the blade midway between opposite edges thereof being of a thickness substantially equal to the width of the end walls of the recess, opposite sides of the blade converging as they approach opposite edges thereof to provide oppositely disposed parallel inclined faces, a pin carried by the thick portion of the blade adjacent the end thereof remote from that which is projected beyond the handle, and said pin extending through the slot for moving said blade longitudinally relative to the handle and when moved into the lateral extension of the slot for rocking the blade within the recess and moving oppositely disposed parallel faces of the blades into engagement with opposite side walls of the recess to thereby stabilize the handle relative to the blade.

2,612,335
INTERCHANGEABLE TRIPOD FOOT TIP
Allen J. Saltzman, Milwaukee, Wis.
Application December 18, 1948, Serial No. 66,087
1 Claim. (Cl. 248—193)

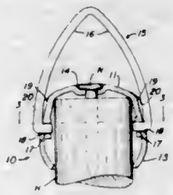
An interchangeable tripod foot including a longitudinally slotted lower end, plane faces lon-

gitudinally interiorly of said slot, a journal pin fixed transversely centrally through said slot below the longitudinal center of the slot, a rectangular reversible element having a pair of aligned end recesses journaled freely on said pin, an unyielding pointed tip on one end of



the reversible element threaded in one end recess, a rubber tip on the opposite end thereof held in the other end recess, and a sleeve embracing said foot with a sliding fit for securing the reversible element in either of its two aligned positions within the slot.

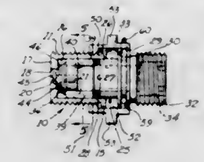
2,612,336
BROOM CAP
Spencer C. Tuttle, Waterbury, Conn., assignor to Cly-Del Mfg. Co., Waterbury, Conn., a corporation of Connecticut
Application March 8, 1949, Serial No. 80,250
1 Claim. (Cl. 248—359)



In a broom cap, a shell comprising a cylindrical middle portion and a dome-shaped top portion, said middle portion having a pair of opposite holes adjacent said top portion, elongated exterior indentations extending vertically upward from said holes and providing two pairs of transversely aligned shoulders at the junction of said middle portion and said top portion, the width of said indentations being substantially greater than the diameter of said holes, and a bail having inturned end portions pivotally received in said holes, the sides of said bail being disposed in said indentations and adapted to abut said shoulders, whereby said bail will normally be supported at an inclined position by one or the other of said pairs of shoulders.

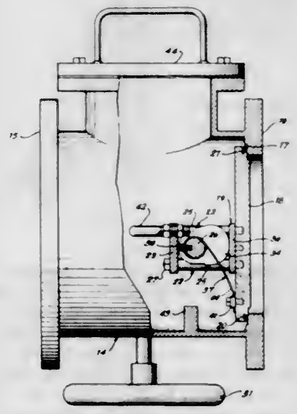
2,612,337
VALVE
James Maynard, Compton, Calif., assignor to Elgin Rowland Parker, Compton, Calif.
Application May 31, 1946, Serial No. 673,649
1 Claim. (Cl. 251—8)

A drain valve for use with a receptacle having a screw-threaded outlet opening, including: a body member having external screw threads extending throughout the major portion of its length by which said member can be screwed into said opening, said body member having a peripheral flange at its outer end and a bore provided with a valve seat; a tubular valve member slidable axially in said bore and having an end projecting forwardly from said outer end of said body member and provided with a pair of axially spaced, peripheral flanges defining between them a peripheral groove; interengaging means on said body member and said valve member for preventing relative rotation therebetween; an actuating sleeve having a bore and a reduced internally screw-threaded portion providing an internal annular shoulder, said peripheral flange of said body member being of larger diameter than said internally screw-threaded portion so that said sleeve can be screwed onto said body member only from the inner end thereof, said



peripheral flanges of said valve member having a close fit in said bore of said sleeve, said peripheral flange of said body member providing a stop against which said shoulder engages to prevent withdrawal of said sleeve in an outward direction; and connecting means detachably mounted on said sleeve and engageable in said peripheral groove so that rotation of said sleeve in one direction causes sliding movement of said valve member in a direction to effect engagement thereof with said seat to close said valve and rotation of said sleeve in the opposite direction effects disengagement of said valve member from said seat so as to open said valve.

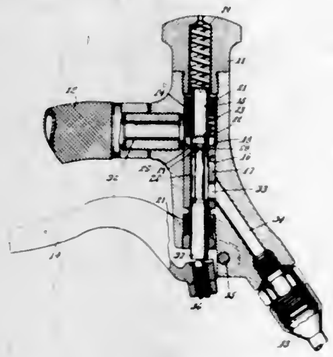
2,612,338
QUICK-ACTING GEAR ACTUATED PIVOTED VALVE
Earl W. Flosdorf, Forest Grove, and Lewis W. Hull, Huntingdon Valley, Pa., assignors to F. J. Stokes Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 27, 1950, Serial No. 170,538
2 Claims. (Cl. 251—16)



1. A hand operated valve for use in high vacuum lines comprising a valve body having a flat, vertically-disposed, annular valve seat

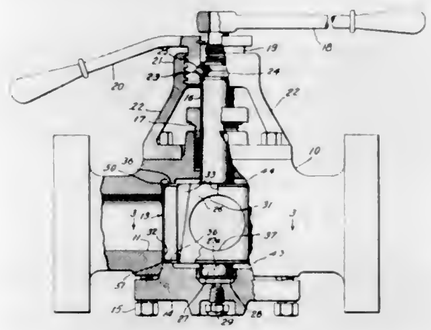
therein; a shaft rotatably mounted in said valve body; coiled spring means affixed to and surrounding said shaft and having a pair of legs which extend transversely thereof; a valve plate assembly rigidly connected to said legs including a valve plate having an annular surface for engaging said valve seat, a seating pressure member integrally formed on said valve plate, spaced pairs of bearing posts extending from said valve plate transversely of and beyond said shaft on opposite sides thereof for guiding translational and rotational movement of said valve plate assembly, and an unseating pressure member connected to the ends of said bearing posts positioned beyond said shaft; a worm gear keyed to said shaft; a worm meshed with said gear for rotating said shaft, said spring means having sufficient stiffness to transmit the valve closing torque of said shaft through said leg means to said valve plate assembly for rotating said assembly substantially 90° from full open position to a partially closed position, said spring means having sufficient resiliency to store resilent power upon initial opening rotation of said shaft for rotating said valve plate mechanism from a partially open position to a fully open position; and cam means rigidly mounted on said shaft for wiping engagement with said seating pressure member upon final closing rotation of said shaft and for wiping engagement with said unseating pressure member upon initial opening rotation of said shaft, said cam means being formed to translate said valve plate assembly between a fully closed position and a partially open position upon final closing and initial opening rotation respectively of said shaft.

2,612,339
VALVE CONSTRUCTION
Frank J. Ferruzzi, Willow Grove, Pa., assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application March 13, 1947, Serial No. 734,328
3 Claims. (Cl. 251—28)



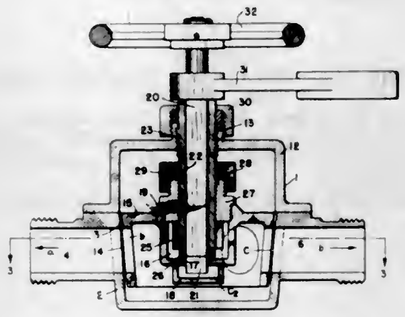
1. A valve for high pressure lubricant comprising a valve body, a passage for lubricant in the valve body and a seat formed therein, said seat dividing the lubricant passage into inlet and discharge sides, walls forming a bore within the valve body on the discharge side of said seat, a valve stem having at least a portion thereof within the valve body, said valve stem including a first portion adapted to engage with said seat to provide a fluid tight joint and to disengage from said seat to permit the passage of lubricant, a second portion of the valve stem adapted to slidably engage with the walls of said bore when the valve is in its closed position, and an inwardly and axially curved portion extending completely around the valve stem at the discharge side of the second portion thereof, said second portion at its discharge end providing an abrupt shoulder-like transition from said second portion to said inwardly and axially curved portion.

2,612,340
ROTARY PLUG VALVE
Milton P. Laurent, Houston, Tex.
Application May 12, 1948, Serial No. 26,606
17 Claims. (Cl. 251—93)



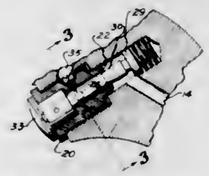
4. A rotary plug valve comprising: a housing provided with a cylindrical chamber having at least one port opening through the side wall thereof; a sectional valve plug mounted for rotation in said chamber; said plug including an axially tapered core having at least three side faces, said core being mounted for displacement axially of said chamber and having a passageway therethrough with a port in at least one of said side faces, and a segment interposed between each said side face and said chamber side wall, each said segment having an arcuate outer face opposed to said wall for sealing engagement therewith and an inner face parallel to the juxtaposed side face of said core, the segment overlying the ported side face of said core having a port therethrough adapted to be aligned with said housing port and said core port in the open position of the valve to permit flow therethrough; interconnecting means fastening each of the non-ported segments to said core for relative slidable movement between their juxtaposed faces; abutment means in said housing for maintaining said segments against displacement axially of said chamber; a lubricant reservoir between each end wall of said valve chamber and the corresponding end of said valve plug; lubricant channels in said plug connecting said reservoirs, said channels being formed by clearances between the side edges of each said non-ported segment and the next adjacent segment; and means to conduct a lubricant to one of said reservoirs, whereby rotation of said core is effective to open and close the valve, axial displacement of said core in one direction is effective to force said segments radially outwardly into sealing engagement with said chamber side wall and thereby widen said lubricant channels, and axial displacement of said core in the other direction is effective to force said non-ported segments radially inwardly out of sealing engagement with said chamber side wall and thereby narrow said lubricant channels.

2,612,341
AXIALLY MOVABLE ROTARY PLUG
Guillermo Palacios Bridgefield, Mexico City, Mexico
Application May 10, 1948, Serial No. 26,067
In Mexico May 27, 1947
2 Claims. (Cl. 251—97)



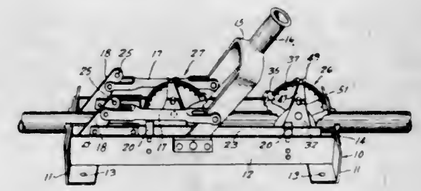
1. A valve comprising a valve casing having an internally threaded opening and a conical valve seat and at least one opening therethrough, a gasket lining said valve seat and having at least one opening coinciding with said seat opening, a sleeve having external threads to engage the threaded opening in said casing, a hollow conical valve plug carried by said sleeve in said casing for cooperation with said gasketed valve seat, said plug having at least one radial opening therein for cooperation with the seat opening, a handle on said sleeve beyond said casing, a shaft journalled in said sleeve and keyed to said plug beyond the inner end of said sleeve, and a second handle on the outer end of said shaft beyond the outer end of said sleeve, whereby operation of said first handle will axially move said valve plug relative to said gasketed seat, and actuation of said second handle when said plug is retracted from said seat will rotate said plug relative to said seat.

2,612,342
THROTTLE VALVE FOR PNEUMATIC TOOLS
Jack E. Terry, North Royalton, Ohio, assignor, by mesne assignments, to Superior Pneumatic & Manufacturing, Inc., Garfield Heights, Ohio, a corporation of Ohio
Application October 18, 1947, Serial No. 780,633
1 Claim. (Cl. 251—137)



A throttle valve for a pneumatic tool comprising a housing having a recess extending from its exterior and terminating in a generally cylindrical deep cavity, a high pressure passage leading into the cavity, a low pressure passage leading from adjacent the outer end of the recess, a valve seat member within the outer end of the recess, said valve seat member having a bore therethrough counterbored at its outer end and an outlet through its wall arranged to communicate with the low pressure passage, said seat member being provided with an inwardly facing seat, a valve stem within the bore of the seat member, operating means on the external end of said stem forming a close fit within said counterbore and said valve stem having a frustroconical section whose larger diameter is just slightly less than the inner diameter of the bore and a flanged head within the cavity seating on said valve seat, said head having a cross sectional clearance with the bore of the cavity which is greater than the cross sectional clearance between the small end of the conical portion of the valve stem and the bore of the valve seat member whereby the pressure in the cavity behind the valve head acts in concert with pressure on the operating means to resist sudden opening of the valve.

2,612,343
REVERSIBLE PIPE PULLER
Frank L. Fraizer and Ernest H. Waltz, Troy, Ohio, assignors to Trojan Manufacturing Company, Troy, Ohio, a partnership
Application June 6, 1949, Serial No. 97,468
13 Claims. (Cl. 254—29)

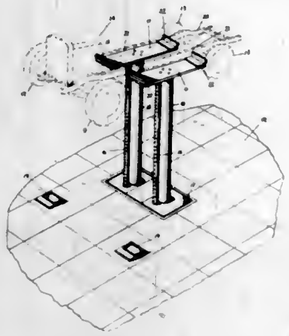


1. A reversible pipe puller, including a movable body having a trough to receive a length of pipe and a pair of upstanding brackets on the opposite sides of said trough, a pivot pin supported between said brackets, an arcuate gripping jaw pivotally mounted on said pin in overlying relation to said trough, said jaw being movable alternatively to engage the ends thereof with a pipe in said trough, a clutch plate mounted on said pin and having a series of notches in its periphery, oppositely disposed yielding means between said clutch plate and the opposite ends of said jaw tending to connect said plate and jaw for motion as a unit but permitting relative motion therebetween, a clutch dog selectively engageable in the peripheral notches in said plate, and reciprocable means acting in one direction of motion initially to move said clutch dog to engage said jaw with the pipe and subsequently to shift said body to advance the pipe and acting in the opposite direction of motion initially to move said clutch dog to release said jaw from the pipe and subsequently to return said body independently of the pipe, the advance of the pipe occurring during a direction of motion of said reciprocable means predetermined by the position of adjustment of said clutch dog upon said clutch plate.

2,612,344
ADJUSTABLE LOAD ENGAGER FOR VEHICLE LIFTS
Elmer B. Thompson, Des Moines, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application December 7, 1949, Serial No. 131,598
5 Claims. (Cl. 254—89)

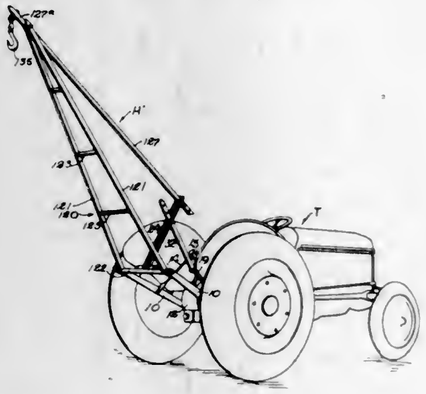
5. For use with a vehicle hoist wherein a lift member carries a flat horizontal longitudinally extended plate member at its upper end for supporting the frame of a vehicle to be elevated, a

frame engaging member adjustably carried on said plate member for linear movement transversely thereof including a frame contact portion movable to opposite sides of the transverse path of movement of said frame engaging member and to positions outwardly from opposite sides



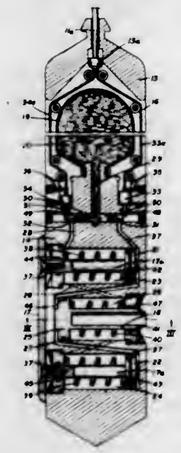
of said plate member, and co-acting portions on said frame engaging member and on said plate member for holding said frame engaging member against lateral tipping movement relative to said plate member at any moved position of said frame engaging member.

2,612,345
TRACTOR ATTACHMENT
Elmer E. Schatz, Upper Arlington, and Oscar Ham, Amlin, Ohio, assignors to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware
Application November 13, 1945, Serial No. 628,212
6 Claims. (Cl. 254—124)



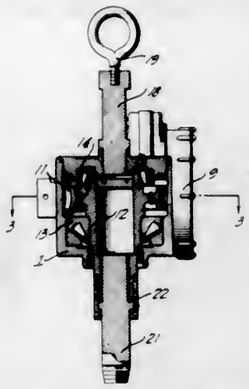
1. In a hoist attachment for a tractor having vertically spaced upper and lower draft link means trailingly pivoted on its rear end portion and arranged with the lower draft link means connected to a power lift device on the tractor for vertical swing of such link means by the lift device, the combination of an elongated boom having means thereon for pivoting the inboard end thereof to the lower draft link means for vertical swing of said boom with reference to such link means, a standard rising from said inboard end of said boom, means for rigidly fixing said standard against movement with reference to said boom and in generally upright position, and means pivotally connecting the upper portion of said standard to the trailing end portion of the upper draft link means for effecting a fore and aft rocking motion of said standard and the boom connected thereto as an incident to raising and lowering of the lower draft link means.

2,612,346
DEVICE FOR OBTAINING SAMPLES FROM WELL BORES
Norman A. Nelson, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application June 27, 1951, Serial No. 233,773
8 Claims. (Cl. 255—1.4)



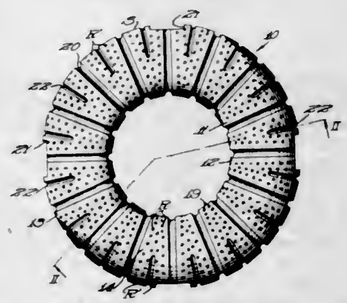
6. A tool for obtaining samples in a well bore which comprises, in combination, a housing defining a cage, a pressure responsive member arranged in said cage adapted to be subjected to fluid pressure of the well bore when said tool is lowered therein, at least a first piston arranged in a horizontal piston cylinder in said housing vertically spaced from said cage, an external shoe attached to said first piston through an opening to an exterior surface of said housing adapted to position said housing against a wall of the well bore, a second piston arranged in a second horizontal piston cylinder in said housing spaced vertically from said cage, said second piston being provided with a sample tube adapted to be projected through an opening in said housing to obtain a sample from the wall of the well bore, first releasable valve means arranged in a first passageway in said housing fluidly communicating said pressure responsive means with said pistons and adapted to extend said shoe and said sample tube from said housing, biasing means attached to said pistons for retracting said shoe and sample tube, second releasable valve means arranged in a second passageway in said housing fluidly communicating said pressure responsive means with said pistons adapted to equalize pressure on same whereby said biasing means will cause retraction of said shoe and sample tube, and an actuating and suspending means attached to an upper end of said housing for lowering said tool in the well bore from the earth's surface and for actuating and then retrieving same.

2,612,347
PORTABLE DRILLING UNIT
Sisti Siracusa, Santa Fe Springs, Calif.
Application April 5, 1949, Serial No. 85,545
2 Claims. (Cl. 255—19)



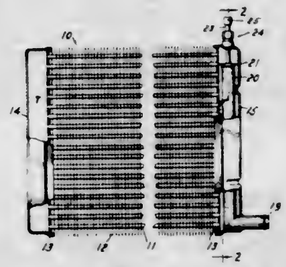
1. A portable drilling unit comprising a housing, a fluid motor mounted on said housing, a worm wheel journalled in said housing, a worm meshing with said worm wheel, gear means extending from said motor to said worm whereby the worm is rotated, a bushing depending from the worm wheel a shoulder on the bushing above the worm wheel, a second shoulder on the bushing below the worm wheel, bearings in said housing engaging the shoulders on the bushing, a drive sub attached to the bushing and depending therefrom, a nut threaded on to said bushing and shouldering on the sub whereby the sub is detachably secured to the bushing, and an elevator sub rising from said housing and threaded into said housing.

2,612,348
DIAMOND SET CORE BIT
Leo Catallo, Detroit, Mich., assignor to Wheel Trueing Tool Company, Detroit, Mich., a corporation of Delaware
Application September 14, 1949, Serial No. 115,618
1 Claim. (Cl. 255—72)



A core bit comprising an annular body having a working face formed of a convex end surface and inner and outer surfaces extending therefrom that are concentric and substantially cylindrical, said inner and outer surfaces having relieved ends lying in axially spaced planes, abrasive particles set in said working face and extending in rows diverging outwardly over said convex end surface and in generally parallel rows extending axially along said inner and outer surfaces, the abrasive particles in said outer surface lying substantially flush therewith but those in said end surface protruding substantially therefrom, said surfaces being provided with main water courses lying in planes through the axis of said body and extending transversely of said body across all of said surfaces to the relieved inner and outer ends and dividing said end surface into sector-shaped portions, said end and outer surfaces being provided with auxiliary water grooves intermediate said water courses and beginning near the middle of said sector-shaped portions and extending therefrom along said end surface and said outer surfaces to the relieved end of said outer surface.

2,612,349
RADIATOR TYPE HEAT EXCHANGER
Alfred R. Lintern, Grosse Pointe Farms, Mich., assignor to A. R. Lintern Inc., Detroit, Mich., a corporation of Michigan
Application April 10, 1950, Serial No. 155,097
7 Claims. (Cl. 257—144)

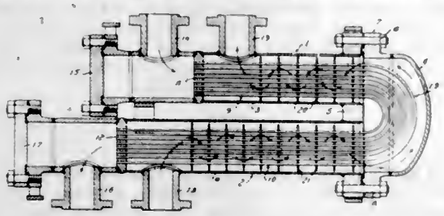


1. A vehicular hot water space heater comprising a horizontal core, a can on one end of said core housing a transfer chamber communicating with the entire area of said core, a can on the other end of said core housing an intake chamber communicating with half the area of said core and an outlet chamber communicating with the other half of the area of said core, an inlet pipe communicating with said inlet chamber, an outlet pipe communicating with said outlet chamber, a liquid level tube disposed in said outlet chamber connected to said outlet pipe extending upwardly from said outlet pipe to a point adjacent the top of said outlet chamber whereby liquid in the heater circulates from said inlet pipe to said outlet pipe by traveling via said inlet chamber, half said core to said transfer chamber, half said core to said outlet chamber, and said liquid level tube to said outlet pipe, a valve seat on the upper end of said liquid level tube, and a valve seatable on said valve seat operable to permit unrestricted flow of liquid into said liquid level tube regulate flow of liquid into said liquid level tube, or entirely prohibit flow of liquid into said liquid level tube.

2,612,350
EXPANSION COMPENSATED COUNTER-CURRENT HEAT EXCHANGER
Walter L. Stadler, Bayside, N. Y., assignor to The Griscom-Russell Company, New York, N. Y., a corporation of Delaware
Application September 17, 1948, Serial No. 49,695
1 Claim. (Cl. 257—234)

A heat exchanger for fluids having two legs of unequal length, each including a shell section with a tube bundle section therein, a header for interconnecting said shell sections at one end, means within the header for interconnecting said

tube bundle sections, said legs being separated from one another to permit independent longitudinal extensions resulting from thermal expansion, the shell section of said legs and the header forming a continuous passage for a fluid about the tubes, the tube bundles and the means interconnecting the tubes forming a continuous passage within the tubes and connecting means therefor for a second fluid, means for introducing



the hotter fluid into one of said passages in the shorter leg and discharging it from said passage from the longer leg, and means for introducing the colder fluid into the other passage in the longer leg and discharging it from said other passage from the shorter leg, the respective lengths of said legs being such that at a predetermined operating temperature there will be substantially equal extension of the lengths of the legs due to thermal expansion.

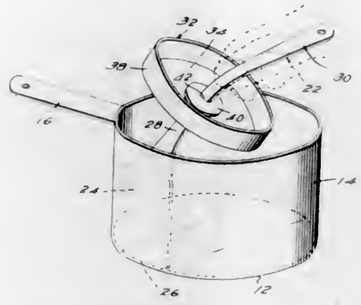
2,612,351
ARRANGEMENT FOR MOUNTING HEAT TRANSFER CONDUITS
Alfred G. Janos, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application November 21, 1946, Serial No. 711,291
4 Claims. (Cl. 257—256)



1. In a heat transfer apparatus, means including a heat-conducting wall providing a compartment the temperature of which is to be affected, a heat-conducting member of C-shaped cross section fixed to said wall, a length of conduit for conducting heat transfer fluid adapted to be inserted through the opening in said C-shaped member, and a heat-conducting strip curved to fit the contour of said conduit adapted to be slid into assembled relationship with said C-shaped member for pressing said conduit against said C-shaped member to provide one heat transfer path between said wall and said conduit, the curved portion of said strip being resiliently urged into heat exchange relationship with said conduit to provide a second heat transfer path between said wall and said conduit, said conduit being enclosed throughout its length between said C-shaped member and said strip.

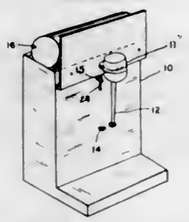
2,612,352
SAFETY SHIELD
Henry Singer, Honolulu, Territory of Hawaii, assignor of one-half to John K. Goo Kim, Jr., Honolulu, Territory of Hawaii
Application June 27, 1950, Serial No. 170,606
1 Claim. (Cl. 259—1)

A shield for protecting the hand of the user of an agitator-scraper for cooking utensils, comprising a flat metal disk of substantial area having an axial opening to receive the handle of the agitator-scraper therethrough, an upstanding flange encircling the perimeter of said disk, and a disk of a flexible material secured on each side of said metal disk and overlying and underlying the said opening, each of said flexible material



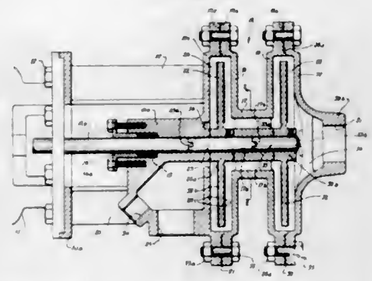
disks having an incision centered with respect to the said opening for the extension of the handle through the same and said incision of each disk being spaced all around a substantial distance from the edge of the opening whereby said handle will be held out of contact with the said metal disk.

2,612,353
AUTOMATIC BEVERAGE MIXER
Wilfred A. Steiner and Richard W. Sprung, Detroit, Mich., assignors to Steiner Machine Products Company, Detroit, Mich., a partnership
Application October 23, 1948, Serial No. 56,116
4 Claims. (Cl. 259—24)



1. A beverage mixer of the character described comprising a support, a motor driven agitator mounted on said support, an electrical circuit and switch in said circuit for said motor, a container demountably mounted on said support and operable to turn said switch "on" when disposed on said support to receive the agitator, a source of liquid supply at substantially constant hydrostatic pressure, an auxiliary liquid reservoir connected with said source of liquid supply and provided with controlled means for heating the liquid in said auxiliary tank and maintaining said liquid at a predetermined high temperature and with liquid discharge means disposed to discharge the liquid into said container, and means operable on actuation of said switch to "on" position to meter the discharge of a predetermined quantity of heated liquid from said auxiliary tank, said liquid metering means comprising a solenoid actuated discharge valve and control means for actuating and maintaining said discharge valve open for a predetermined time interval.

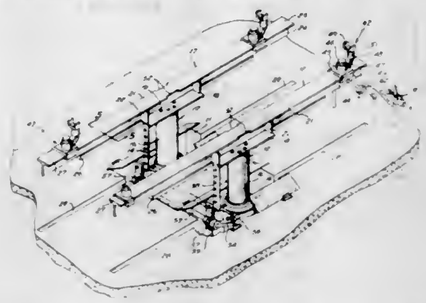
2,612,354
ROTARY MIXER
Douglas W. Dron, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application May 24, 1951, Serial No. 227,988
1 Claim. (Cl. 259—68)



A device for mixing together different liquids, which comprises a housing section having an inlet passage for the liquids, a drive shaft rotatably mounted in said section, a second housing section removably secured to the first section and forming therewith a mixing chamber communicating with the inlet passage, said sections having interfitting faces to form a tight joint between the sections, the second section having a bore and a flow channel leading from said chamber, a shaft extension rotatable in the bore and detachably connected to said shaft, a third housing section removably secured to the second section and forming therewith a second mixing chamber communicating through the flow channel with the first chamber, said third section having an outlet passage for mixed liquids, said second and third sections having interfitting faces identical with said first interfitting faces of the first and second sections, respectively, whereby the third section is adapted to fit against said face of the first section to form a chamber similar to the first chamber but having said outlet passage, releasable means for securing the housing faces in said interfitting relation, and rotary mixing members in the chambers secured, respectively, to said shaft and extension, said second section having a central hub containing said bore and channel and also having a flange extending radially from the hub at each end thereof, one of said faces being formed at the outer portion of each flange, said third section having an element engaging the adjacent end of the shaft extension to support the same for rotation and surrounded by said outlet passage.

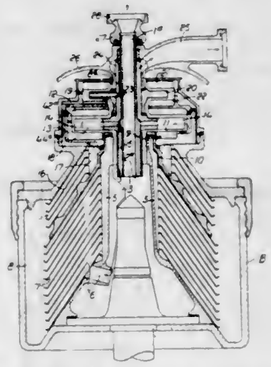
2,612,355
VEHICLE HOIST
Elmer B. Thompson, Des Moines, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application November 16, 1951, Serial No. 256,671
1 Claim. (Cl. 254—89)

For elevating a vehicle having a main frame, a vehicle lift including a pair of transversely spaced lift members mounted in a floor pit movable to lowered positions within said pit below the level of the floor surface, a pair of longitudinally extended frame supporting members corresponding to said lift members, means mounting a supporting member intermediate the ends thereof on a corresponding lift member, with each of said frame supporting members being integrally formed with a flat horizontal section having a downwardly projected reenforcing section on the underside thereof, frame contact members supported on said horizontal sections for slidable movement longitudinally thereof, coacting interlocking portions on said frame contact members and horizontal sections for holding said contact members against transverse and upward movement relative to said horizontal sections, with said horizontal sections being of a reduced width at a centrally located portion thereof to provide



for the removal of the contact members from said horizontal sections at said centrally located portions, said floor surface having a pair of transversely spaced longitudinal slots formed therein of a width greater than the width of said reinforcing sections but less than the width of said horizontal sections whereby when said lift members are in a lowered position said reinforcing sections are received in said slots and said horizontal sections extend across said slots so as to be supported on the floor surface.

2,612,356
HOMOGENIZING DEVICE
Alfred Gerhard Borck, Tullinge, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application May 9, 1951, Serial No. 225,291
In Sweden May 12, 1950
20 Claims. (Cl. 259—96)



1. An homogenizing device comprising a hollow rotor having an inlet for the liquid to be homogenized, means in the rotor for causing the liquid therein to partake of the rotation of the rotor, whereby the liquid forms an annulus in the rotor, a paring member having an inlet opening positioned to project into the inner surface of said annulus and also having a discharge channel extending through said member, and an homogenizer communicating with the inlet open-

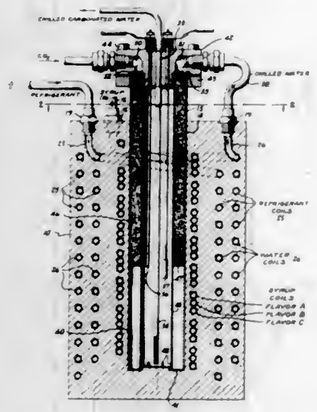
ing of the paring member and situated in said discharge channel to receive liquid pared from said annulus.

2,612,357

REFRIGERATION AND CARBONATION UNIT

Regis E. Parks, Brooklyn, N. Y., assignor to Spacarb, Inc., New York, N. Y., a corporation of Delaware

Application November 10, 1947, Serial No. 785,097
11 Claims. (Cl. 261—11)



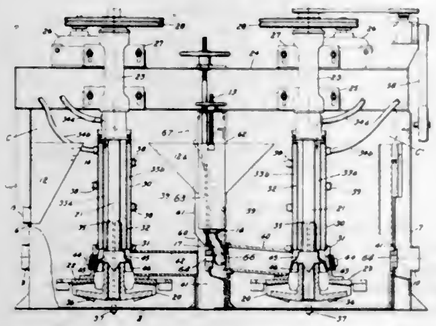
1. A device of the type described comprising, in combination, a metallic mass, a carbonator comprising an elongated cylindrical shell embedded axially in said mass and for substantially the full length of said mass, spirally formed water and refrigerant tubes embedded in said mass surrounding said carbonator spaced from each other and said carbonator, and a spirally formed drink ingredient tube surrounding said carbonator and embedded in said mass between said first tubes and said carbonator and spaced from said first tubes and said carbonator.

2,612,358

PUMPING-TYPE FLOTATION APPARATUS

Arthur C. Daman, Denver, Colo., assignor to Mining Process and Patent Company, Denver, Colo., a corporation of Delaware

Application June 14, 1947, Serial No. 754,653
17 Claims. (Cl. 261—93)



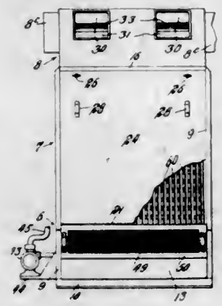
1. The combination with a flotation cell and a rotary impeller in the lower portion of said cell, of a hood over the impeller, a hollow gas-supply column extending into the upper portion of the cell, a pulp-delivery conduit positioned at the bottom of said column for feeding pulp to the impeller, and an auxiliary impeller mounted above and spaced from the impeller within said column for forcefully discharging gas and pulp onto the impeller.

2,612,359

EVAPORATIVE WATER COOLER

Walter M. Simpson, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application March 26, 1947, Serial No. 737,304
6 Claims. (Cl. 261—112)



1. A cooling tower comprising an upright casing having spaced end walls and a support extending therebetween, means in the casing for supplying liquid to be cooled, a sump below the liquid supplying means, air inlet and outlet openings in the casing, and a packing assembly in the casing between the liquid supplying means and sump comprising a series of individual slat-frame units, each of said units comprising a group of slats secured to and carried on a set of supporting strips, said slat-frame units resting side by side on said support with the supporting strips of each slat-frame unit contacting the slats of the next adjacent unit throughout the space between said end walls to mutually support each other in upright position, said supporting strips holding the slats of adjacent frames in spaced relationship and the supporting strips of each frame being offset with respect to supporting strips of adjacent frames whereby to permit flexing of the slats between supporting strips and thereby preventing bulging on the end walls of the casing upon swelling of the individual slat-frames.

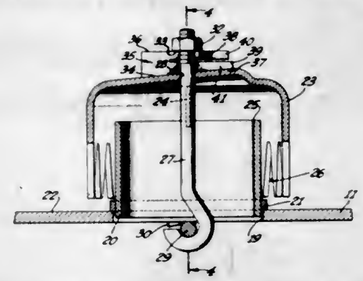
2,612,360

BUBBLE CAP AND HOLDDOWN DEVICE

Charles L. Haynes, Flintridge, and Henry W. Breer, Burbank, Calif., assignors to C. F. Braun & Co., Alhambra, Calif., a corporation of California

Application February 1, 1947, Serial No. 725,821
2 Claims. (Cl. 261—114)

1. In a cap and riser assembly for a bubble tray, the combination of: a cap, a holddown element extending upward through an opening in the cap, a downwardly facing shoulder on the holddown element, an upwardly facing inclined surface on said cap, a tapered wedge member insertable between said shoulder and the inclined surface of the cap, the wedge member having surface contact with the shoulder, the wedge member having a longitudinal slot extending from its small end and underlying the entire extent of said shoulder, the slot extending lengthwise beyond the shoulder in both directions to



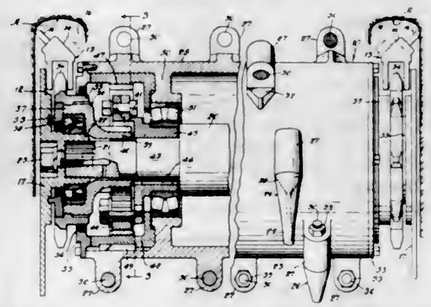
give the wedge member resiliency and thereby to provide a resilient connection.

2,612,361

MINING MACHINE

Loy Dale Hagenbook, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application March 16, 1951, Serial No. 216,066
6 Claims. (Cl. 262—9)



1. In a cutter head for mining machines, a pair of spaced side bars having power-driven cutter chains guided for orbital movement thereabout, a rotatable bit-carrying member disposed transversely between the forward ends of said side bars, and gearing operatively connecting the chains with the rotatable member for driving the latter in reverse direction to said cutter chains.

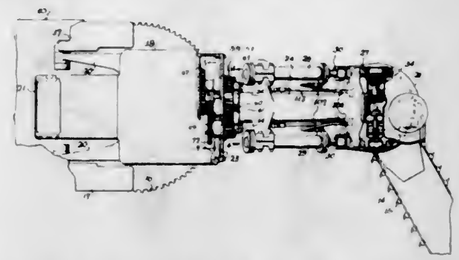
2,612,362

KERF-CUTTING MACHINE

Herman W. Driehaus, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application February 7, 1948, Serial No. 6,957
13 Claims. (Cl. 262—28)

1. In combination with a kerf-cutting machine having a base frame, an elongated tilting frame pivotally supported near its rear end on said base frame for tilting adjustment about a transverse axis and an extension arm rotatably supported at the front of said tilting frame for movement about a generally longitudinal axis, the improvement consisting of power means providing a balanced compensating drive for rotatably moving said extension arm about said longitudinal axis including two helical gears rotatable about longitudinal axes disposed on opposite sides of the axis of rotation of said extension arm, drive connections between said helical gears and opposite sides of said extension arm, so as to balance the driving reactions during rotation of said arm, two connected helical pinions meshed with said helical gears and mounted for movement along their axes of rotation, and said helical gears having teeth cut at opposite helix angles, to cause movement of said pinions along their axes of rotation,



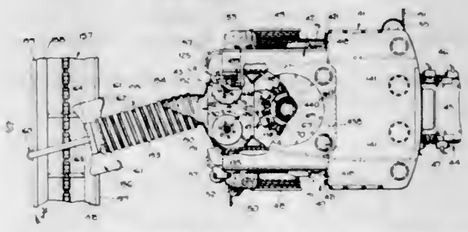
upon the transmission of unequal reactions to said pinions by said helical gears, to compensate for inaccuracies in said gears and equalize the drive therefrom.

2,612,363

MINING APPARATUS

Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application January 23, 1946, Serial No. 642,862
11 Claims. (Cl. 262—30)



1. In a mining machine, the combination with a frame, of a reversible motor mounted thereon, kerf cutting mechanism connected to said frame including an endless cutter chain and drive sprocket, cuttings removing mechanism located adjacent said cutter chain and drive sprocket including a pair of laterally spaced rotating drums having blades which reciprocate relative to said drums and sweep the cuttings rearwardly, reversing gearing interconnecting said reversible motor and said cuttings removing mechanism to drive it including reversing gearing whereby said cuttings removing mechanism will always be driven in the same direction for reverse directions of rotation of said motor, reversing switch mechanism for reversing the direction of rotation of said motor, and interlocking mechanism between said motor reversing mechanism and said cuttings removing mechanism reversing gearing to require that the cuttings removing mechanism be always driven in the same direction, as aforesaid.

2,612,364

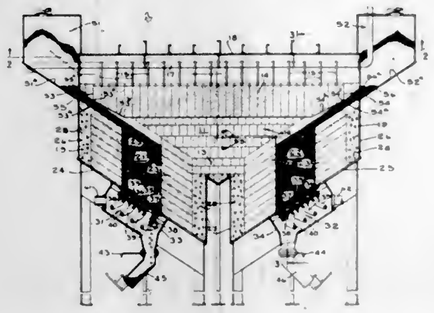
REGENERATIVE FURNACE OF THE PEBBLE BED TYPE

Albert C. Peck and Wendell S. Thompson, Los Gatos, Calif., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

Application January 28, 1949, Serial No. 73,344
13 Claims. (Cl. 263—19)

1. A regenerative furnace having a plurality of pebble beds, a combustion chamber disposed

intermediately of the upper ends of, and accessible through, said pebble beds, a pebble reservoir disposed above each of said pebble beds exteriorly of the circumference thereof at a point remote from said combustion chamber,



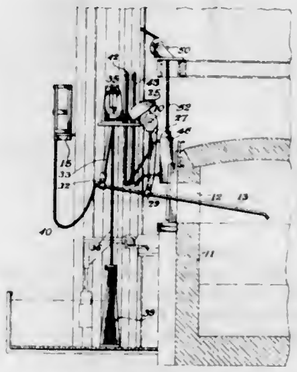
supply channels descending from said reservoirs to the upper ends of their respective pebble beds at substantially the angle of repose of the pebbles employed, and means provided at the lower ends of each of said beds to remove selected quantities of pebbles therefrom.

2,612,365
LETTER BALANCE
Frede Duelund Nielsen, Rodovre, Vanlose, Denmark
Application December 4, 1951, Serial No. 259,781
In Denmark January 30, 1950
1 Claim. (Cl. 265—61)



A letter balance comprising an elongated element having an upper edge and a lower edge and provided between its ends with a plurality of longitudinally-spaced transverse fulcra-providing means for permitting longitudinal pivoting of said element in response to the weight of letters applied to one end of said element, and letter receiving and holding means formed at said end of said element, said last-named means including a letter-receiving slot extending upwardly from said lower edge of said element and having opposed sides adapted to clampingly grip a letter inserted in said slot, said slot tapering inwardly from said lower edge to define two opposed gripping jaws and then tapering outwardly to its greatest width to define an aperture, said gripping jaws being closer to the lower edge of said element than to the side of the aperture furthest removed from the jaws, the outer side of said slot being defined by a transverse end element extending from said lower edge to said upper edge of said elongated element and being connected thereto at substantially its midpoint by a narrow, flexible, integral arm, said transverse element defining with the upper half of said elongated element a second slot co-linear with said first slot, said slot being enlarged adjacent said integral arm, whereby movement of the upper portion of said transverse element toward said elongated element effects bending of said integral arm and separation of said jaws.

2,612,366
APPARATUS FOR CARRYING AND ADJUSTABLY POSITIONING ELONGATED ARTICLES
Glenn E. Wheeler, Hamburg, N. Y., assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application December 2, 1948, Serial No. 63,168
3 Claims. (Cl. 266—34)



1. Apparatus for moving an elongated article in an opening in a side wall of a furnace which comprises a rotatable shaft disposed horizontally above said opening, an arm keyed to and extending downwardly from said shaft, an elongated article connected between its inner and outer ends to the lower end of said arm and disposed at substantially right angles to said shaft, and means to rotate said shaft and move the elongated article endwise.

2,612,367
SWITCH CONTACT SPRING
Sven Gustaf Filip Blomqvist, Stora Essingen, Sweden, assignor of one-half to Ingenjorsfirman H. F. Rost & Soner, Djursholm, Sweden, a Swedish firm
Application August 9, 1949, Serial No. 109,396
In Sweden September 6, 1948
6 Claims. (Cl. 267—1)

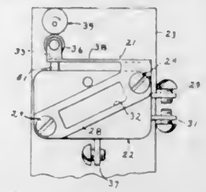


1. A contact spring having a minimum of internal stresses for electric switches comprising a strip of resilient material having indentations pressed in both surfaces spaced sufficiently closely so that the material between adjacent indentations on opposed surfaces of said strip is stressed beyond the initial natural elastic limit of said material, said strip surfaces comprising alternate planar and depressed areas.

2,612,368
SWITCH ACTUATOR
Stafford G. Ransome, Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 18, 1946, Serial No. 648,342
10 Claims. (Cl. 267—1)

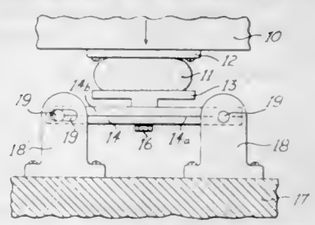
1. For use with a plunger operated switch having a top surface through which the plunger projects and a side surface having diagonally

spaced mounting holes formed thereon, an actuator comprising an elongated resilient member adapted to rest in spaced relation with the top surface of the switch when disposed in operative position with respect to the switch, said member having a free end shaped to engage the plunger and an opposite end spaced from the free end when disposed in said position, and a mounting portion integrally interconnected at a side edge



of the resilient member with the mounting portion depending from the resilient member inclined at an angle with respect thereto, said mounting portion being shaped to overlie said side surface of said switch and being formed with holes positioned to be in register with said diagonally positioned mounting holes when said elongated member is in the aforesaid position.

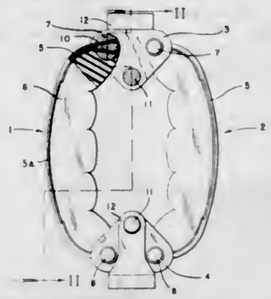
2,612,369
THERMALLY COMPENSATED RUBBER SPRINGS
Melvin Mooney, Mountain Lakes, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 23, 1948, Serial No. 66,901
7 Claims. (Cl. 267—63)



1. A resilient supporting device comprising, in series, a rubber body adapted to undergo elastic deformation under a load, and a thermally responsive compensating element adapted upon change in temperature to deform by an amount which is equal and opposite to the change in deformation of the rubber induced by said change in temperature, whereby the device is capable of maintaining a load at a constant position independent of temperature.

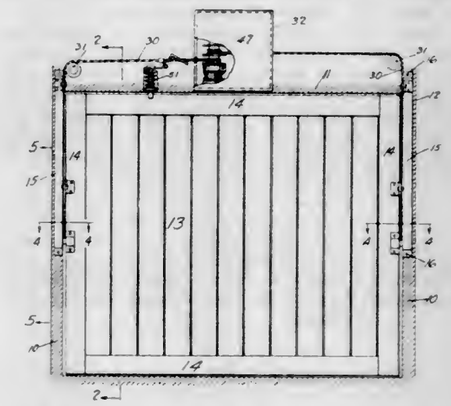
2,612,370
SPRING
Ernst Eger, Los Angeles, Calif., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application January 15, 1949, Serial No. 71,060
14 Claims. (Cl. 267—63)

1. A spring comprising, a pair of opposed supports adapted for relative movement toward and away from each other, and a spring unit connecting with the pair of opposed supports, said spring unit comprising, a layer of flexible strain resisting elements anchored at each end of said layer to said supports, and a body of rubber composition bonded to the layer of strain resisting elements, said layer of strain resisting elements and said body of rubber being supported



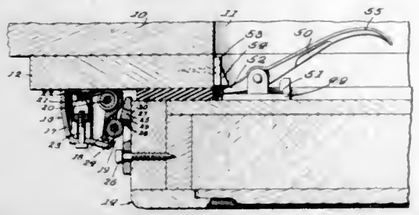
in an arcuate position, the rubber body being on an inner perimeter of such arc and being maintained in a state of compression.

2,612,371
OVERHEAD GARAGE DOOR OPERATOR
Harvey H. Hall, Denver, Colo.
Application August 19, 1948, Serial No. 45,194
6 Claims. (Cl. 268—59)



1. An overhead garage door mechanism for use with a door positioned in a door opening having a frame comprising two vertical frame members and a lintel, a vertical guide attached to each vertical frame member, a guide follower on each vertical edge of the door positioned substantially midway between the top and the bottom thereof in longitudinally freely movable engagement with the guide throughout the length thereof, a pulley positioned above the door opening adjacent each vertical edge of the door, a door lifting cable passing over each pulley and downwardly, the lower ends of the cables being attached to the door at a point positioned in outwardly spaced relation to the guide followers, winch means for winding thereon the other ends of the cables to tension them and produce a torque acting to move the upper end of the door inwardly to clear the lintel and the lower end outwardly and thereafter move the door upwardly, and means for controlling the inward tilting movement of the door as it moves upwardly, comprising links pivoted at their upper ends to the door frame, adjacent the lintel, the free ends of the links having a pivotal connection with the door at a point substantially one-half of the distance from the link pivot to the guide followers.

2,612,372
CLOSURE MEANS FOR SUPER FREEZER DOORS
John Vincent Jamison, Jr., Hagerstown, Md., assignor to Jamison Cold Storage Door Co., Hagerstown, Md., a corporation of Maryland
Application October 9, 1950, Serial No. 189,128
4 Claims. (Cl. 268—72)



1. A closure means for an overlap super freezer door comprising a bracket secured to the edge portion of the door, a lever pivoted intermediate its ends on said bracket for swinging movement in a plane at right angles to the plane of the door, a housing mounted on the door frame, a fulcrum plate pivotally supported by the housing, a stop for limiting the swinging movement of said fulcrum plate, said fulcrum plate being so disposed that the contact end of said lever will engage the fulcrum plate and swing it away from the stop and pass the same when the door is moved to closed position, permitting the fulcrum plate to swing back to normal position against the stop and serve as the fulcrum for said lever whereby pressure applied to the lever will force the door into tightly sealed closed position against a sealing gasket.

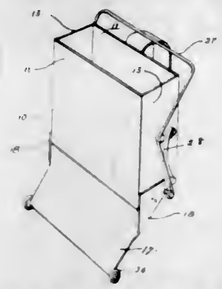
2,612,373
GOLF TEE
Maurice Campbell Pierce, Madison, Wis.
Application August 22, 1946, Serial No. 692,183
3 Claims. (Cl. 273—33)



1. As a new article of manufacture, a golf tee comprising a hollow substantially tubular resilient member having a wide lengthwise extending slot permitting considerable contraction and further expansion of its circumference to provide varying circumferential areas on which to support a golf ball at varying heights from the ground and provided with ground piercing teeth to hold the tee in the desired circumferentially adjusted position

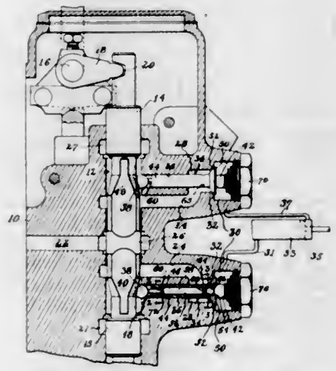
2,612,374
DEVICE FOR APPLYING PELLETS TO AN UPRIGHT ADHESIVE SURFACE
Rufus W. Wilson, Huntingdon, Pa., assignor to Prismo Products, Inc., Dayton, Ohio, a corporation of New York
Application September 26, 1946, Serial No. 699,506
7 Claims. (Cl. 275—14)

1. A device for applying pellets to an upright adhesive surface, comprising a receptacle adapted to contain a quantity of pellets and having an outlet for said pellets, a downwardly and forwardly inclined substantially flat chute of substantial width supported by said receptacle to receive pellets from said outlet and to discharge said pellets substantially uniformly over the full width of the forward edge thereof, guide means supported by the outer sides of said chute and extending forwardly beyond said forward edge of said chute to engage said upright surface and



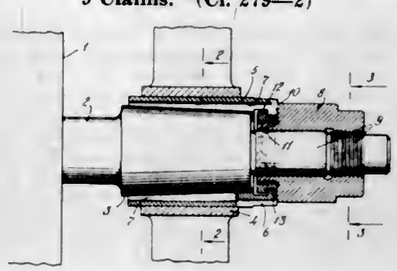
space said edge a predetermined distance therefrom, a handle secured to said receptacle and adapted to be gripped by the hand of an operator to support said receptacle and move the same vertically with said guide means in engagement with said upright surface, and means for controlling the flow of pellets through said outlet.

2,612,375
DUAL CHECK VALVE ASSEMBLY FOR HYDRAULIC CONTROL SYSTEMS
Wayne H. Worthington, Waterloo, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Original application March 31, 1948, Serial No. 18,198, now Patent No. 2,579,134, dated December 18, 1951. Divided and this application April 19, 1950, Serial No. 156,810. In Canada January 28, 1949
5 Claims. (Cl. 277—20)



1. For use in a valve casing having a valve port including an outer portion provided with a valve seat and an inner portion opening to a valve-actuating member: a dual valve, comprising, an outer part formed externally to be shiftably carried in the valve port and having opposite inner and outer ends and provided with a through bore communicating said ends; means at the outer end of said part including a valve head cooperative to seat on and be unseated from the port seat, and means at the inner end of said part engageable by the valve-actuating member to effect shifting of said part for causing unseating of said valve head; an inner valve part having opposite ends and constructed for reversibility end for end to occupy selectively either of two adjusted operating positions relative to the outer part and so dimensioned intermediate its said ends as to axially slidably fit the bore in substantially fluid-sealing relationship in either of said positions; said inner part in either position having one of its ends projecting axially beyond the inner end of the bore so as to be initially engageable by the valve-actuating member for axial shifting prior to engagement by said member of the inner end of the outer part, said inner part in either position having its valve-actuating-member-proximate end identically arranged relative to said valve-actuating member; fluid passage means generally radially of the outer part and spaced inwardly of the valve head to communicate the bore and the exterior of said outer part; first and second fluid control portions respectively at and opening generally axially to the opposite ends of the inner part and selectively communicable with the outer part passage means according to the selected adjusted position of said inner part; and said fluid-control portions being differently constructed so that the fluid-flow relationship between the outer part passage means and the first fluid-control portion in one adjusted position of the inner part differs from the fluid-flow relationship between said outer part passage means and the second fluid-control portion in the reversed position of the inner part.

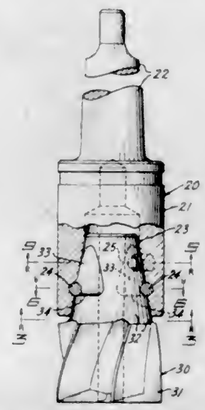
2,612,376
EXPANSION ARBOR
Hans Wollner, Detroit, Mich., assignor to Vinco Corporation, Detroit, Mich., a corporation of Michigan
Application February 2, 1946, Serial No. 645,145
9 Claims. (Cl. 279—2)



4. A spindle and means for fastening a piece thereto comprising an expansible sleeve having a portion of its bore tapered and fitted on a tapered portion of said spindle, a series of longitudinal grooves in the inner surface of said sleeve, a series of external longitudinal grooves in the outer surface of said sleeve the grooves of both series extending to a depth less than the thickness of the sleeve, the outer diameter of the spindle being of a dimension determined by the bore of the work piece, and means mounted on the spindle for shifting said sleeve longitudinally thereof in opposite directions to expand and contract said sleeve.

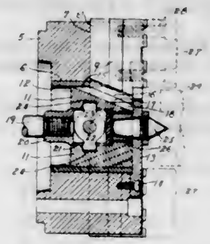
2,612,377
TOOLHOLDER FOR TAPERED SHANKED TOOLS
Ralph A. Edens, East Detroit, Mich.
Application August 1, 1950, Serial No. 176,987
6 Claims. (Cl. 279—22)

1. In combination, a tool holder having an axially disposed female taper therein, and a complementarily tapered shanked tool having the upper portion of the tapered shank thereof formed axially flat on opposite sides and having a pair of locking cams formed at the base of the said flattened opposite sides thereof extending part way around the said tapered shank therefrom, a pair of locking pins extending through the said tool holder communicating with the female taper therein engageable by the cams formed in said tapered tool shank when the said



tapered tool shank is inserted into the female taper in the said tool holder with the flattened sides thereof parallel to the said locking pins and then turned a partial turn with respect to the said tool holder, a pair of oppositely disposed spring loaded detents extending radially inwardly from the female taper in the said tool holder engaging the flattened opposite sides of the tapered shank of the tool whereby to maintain the said tapered shanked tool in its locked position therein.

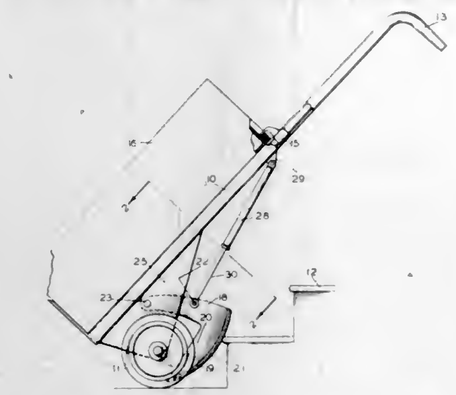
2,612,378
CHUCK
George A. Highberg, West Hartford, Conn., assignor to The Whiton Machine Company, New London, Conn.
Application August 20, 1949, Serial No. 111,372
4 Claims. (Cl. 279—121)



1. A chuck comprising a base having a plurality of jaws radially slidable thereon, a plurality of arcuate members forming a circle co-axial with said base and each separately connected to one of said jaws for moving the jaw on the base, an operating bar co-axial with the base, a head on said bar slidable between said members, and equalizing means pivotally connected to said head and extending therefrom into contact with each of said members for simultaneously moving the members for different distances with equal tension to thereby move the jaws to different positions relatively to the axis of the base and permit

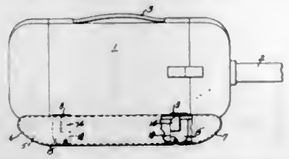
engagement thereof with portions of a separate member located in off-center relation relatively to said axis.

2,612,379
STAIR CLIMBING VEHICLE ATTACHMENT
Reynold S. Vogel, Portland, Oreg.
Application July 19, 1949, Serial No. 105,578
2 Claims. (Cl. 280—5.24)



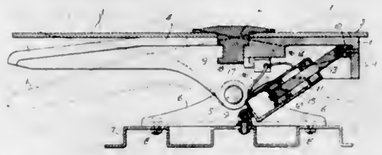
1. A wheeled vehicle comprising a frame, a pair of wheels rotatably mounted one on each side of the frame adjacent one end thereof; obstacle surmounting means comprising a pair of arms pivotally attached one to each side of the frame adjacent the wheels for oscillation in the direction of motion of the vehicle, each of said arms being provided with a foot, the foot extending below the plane of the wheels and being positioned relative thereto for contacting an obstacle and lifting the vehicle over the same, connecting means rigidly interconnecting the feet, and resilient means comprising a pair of resilient members interconnecting the obstacle surmounting means and the frame of the vehicle, one of the resilient members being positioned for tensioning when the feet move in a first direction, and the other being positioned for tensioning when the feet move in the opposite direction.

2,612,380
SUCTION CLEANER RUNNER AND BRACKET ASSEMBLY
Allen P. Cawl, Painesville, Ohio, assignor to General Electric Company, a corporation of New York
Application June 4, 1949, Serial No. 97,289
4 Claims. (Cl. 280—12)



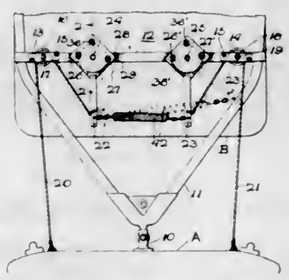
1. Means for slidably supporting the tank of a suction cleaner or the like on a surface, comprising a pair of longitudinally extending runners, each runner having an outer exposed face and inwardly rolled top and bottom edges forming a substantially C-shaped transverse cross-section of each runner, with the open sides of the C's facing each other when said runners are in place, a pair of bracket members attached to the tank and extending transversely of said tank between said runners, each of said bracket members comprising an intermediate portion shaped to conform to the underside surface of the tank and adapted to be secured thereto when in assembled position, normally downwardly turned ends on each bracket with an upstanding ear on each said end, the distance as measured from the extremity of the downwardly turned end to the tip of the upstanding ear being substantially equal to the inside maximum dimension within the rolled portions of said runner, said bracket ends and ears being first inserted within the open sides of said runners at a 90-degree rotation from normal assembled position about the bracket longitudinal axis, and said brackets being secured to said runners entirely by engagement of said end portions and said ears within said C-shaped section upon rotation of said brackets back to normal assembled position with respect to the inner open sides of said runners.

2,612,381
FIFTH WHEEL LOCKING MECHANISM
Marvin Bernard Johnson, Montgomery, Ala., assignor of sixty-seven and one-half per cent to D. W. Hodo and twenty-seven and one-half per cent to W. D. Bach
Application April 7, 1948, Serial No. 19,571
5 Claims. (Cl. 280—33.05)



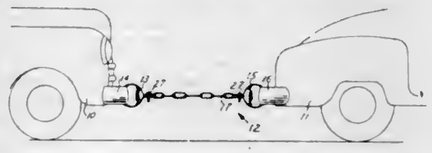
3. The combination with a tractor and trailer of a fifth wheel pivotally mounted on said tractor and normally free to oscillate on a horizontal axis transverse to said tractor, a kingpin on said trailer engaging said fifth wheel, a hydraulic lock mounted between the fifth wheel and the tractor arranged to prevent oscillation of said fifth wheel on said axis when liquid within said lock is prevented from moving, a valve controlling the movement of said liquid, and means associated with said valve for opening and closing said valve to control the movement of the liquid.

2,612,382
TRAILER STABILIZING CONNECTION
Samuel K. Landis, Ephrata, Pa., assignor of one-half to Christian G. Landis, Quarryville, Pa.
Application October 19, 1950, Serial No. 190,997
6 Claims. (Cl. 280—33.9)



1. Structure for reducing trailer swaying, in combination with a trailer hitch, comprising a transverse bar secured to the underside of a trailer, a pulley mounted for rotation adjacent each end of the bar, turnable friction means mounted adjacent each pulley on the underside of said bar, said friction means having arms affixed thereto projecting toward the trailer hitch coupling connection for concerted oscillation, a tension spring connected between the said arms adapted to normally maintain said arms in substantially parallel relation to each other, stop means on each side of each of said friction means arranged so that in either direction of oscillation one arm moves a greater distance than the other arm to extend said spring, a cable looped over each pulley at each end of the said bar, each cable connecting at one end to the end of one of said arms and extending toward its respective pulley in a direction opposite to the tensile stresses of said spring, and the opposite end of each cable connecting to the rear side of a towing vehicle, the resistance of said spring being greater than the resistance of said friction means, whereby minor trailer sway in either direction imparted to said arms from tension caused thereby on said cables is reduced by the resistance of said friction means and relatively greater trailer sway is reduced by the additive resistance of said spring.

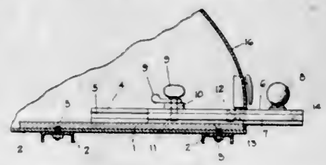
2,612,383
TOWING DEVICE
John A. Manders, Minneapolis, Minn.
Application September 21, 1950, Serial No. 185,987
1 Claim. (Cl. 280—33.14)



A gripper for detachably connecting a tow chain to a vehicle bumper, comprising complemental grip elements each constituted as a length of rigid material having a hook portion and an attachment portion at opposite ends, respectively, thereof, a special link providing first and second hooks situated between and in proximate relation to the attachment portions of said grip elements and a bight situated at a side of said attachment portions opposite the lengths of the grip elements assembled with a link of said tow chain, rivets in said attachment portions and said first and second hooks securing the attachment portions to each other and to said special link, with the hook portions of said grip elements extending interiorly and disposed in opposed, facing, spaced relation, for limited swinging movement of the grip elements toward and away from each other, and a tension spring interconnecting intermediate portions of said lengths of said grip elements.

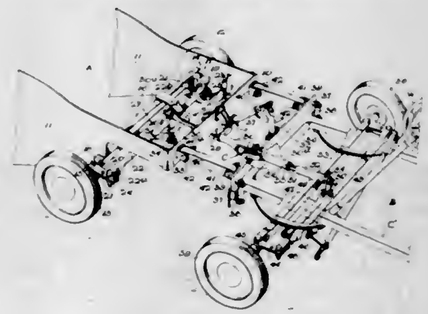
2,612,384
TRAILER HITCH
John J. Wiegman, Englewood, Colo., assignor of one-fourth to Sam E. Kelley, Denver, Colo.
Application September 1, 1950, Serial No. 182,645
2 Claims. (Cl. 280—33.44)

1. In combination with the rear storage compartment and the compartment door and latch of a motor vehicle, a trailer hitch comprising a guide positioned in the storage compartment, a slidable hitch plate adjustably locked in the guide spaced openings in the hitch plate, the compartment door latch engaging one of the



openings when the slidable hitch plate is in retracted or extended position.

2,612,385
STEERING CONNECTION FOR VEHICLE PUSHED IMPLEMENTS
Michael M. Piltz, Halifax, Pa.
Application September 14, 1951, Serial No. 246,540
3 Claims. (Cl. 280—33.55)

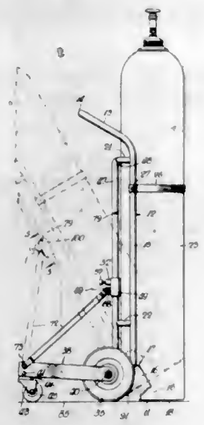


1. A combined steering assembly connection between the front end of a propelling vehicle and the wheels of a wheeled implement each having stub axles with arms theeron, a tie rod connecting the arms of the stub axles of the propelling vehicle, a lever connected to the tie rod, a rotatable rod supported in a bearing on the axle of the propelling vehicle, said rotating rod at one end being rigidly connected to a short lever which is loosely connected to the lever attached to the tie rod, the other end of the rotatable rod beyond its bearing having a key therein to engage a spline formed in the hollow end of a section of a universal coupling, the other end of the universal coupling being in the form of a rod supported in a bearing on the chassis of the wheeled implement, the end of the last rotatable rod section of the universal coupling having rigidly secured thereto an arm and a connection between said arm and the arm of one stub axle of the wheeled implement and a tie rod connecting said arm of said stub axle to the other arm of the stub axle of the wheeled implement.

2,612,386
WHEELED ATTACHMENT FOR HAND TRUCKS
Henry E. Schutzer, New York, and Rudolph C. Frohner, Brooklyn, N. Y., assignors to Oxygen Equipment Mfg. Co., a corporation of New York
Application May 20, 1948, Serial No. 28,123
5 Claims. (Cl. 280—54)

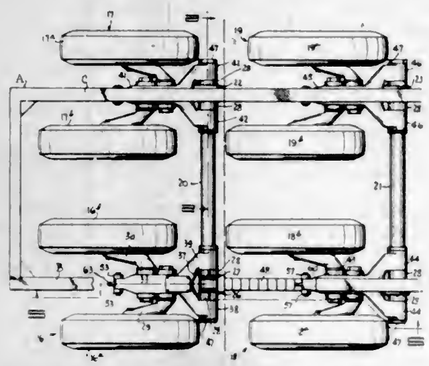
5. A hand truck comprising a cradle, wheels rotatably mounted at the lower end of said cradle, support means connected to said cradle and pivotally displaceable with respect thereto, wheel means on said support means, a track comprising a hollow tube extending longitudinally of

said cradle and rigid therewith, a sleeve slidably mounted on said tube and operatively connected to said support means to displace the latter with respect to said cradle, whereby said cradle may be moved to an inclined position, a safety stop normally positioned in said tube and movable therefrom at right angles thereto into the path of movement of said sleeve to limit the move-



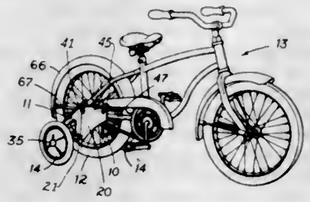
ment of the latter on said tube, means automatically actuated by pivoting the cradle from upright to inclined position to set said safety stop to operative position, and a latch pin slidably mounted in said sleeve at right angles thereto and normally urged thereinto toward said tube, said tube having an opening therethrough into which said latch pin may enter.

2,612,387
VEHICLE WHEEL COMPENSATING SUSPENSION
Adolph Ronning, Minneapolis, Minn.
Application June 22, 1945, Serial No. 601,030
36 Claims. (Cl. 280—104.5)



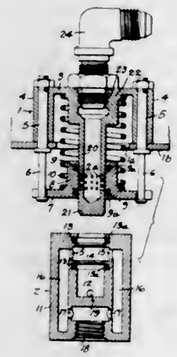
1. In a tandem wheel supporting truck for a vehicle frame, a pair of transversely extending parallel tubular cross members secured to the frame, a separate row of transversely spaced ground wheel pairs positioned rearwardly of each cross member, means differentially connecting the wheels of each pair, and means supportably connected to the wheel pairs and swingable on the cross members for transmitting load forces to the wheels while permitting limited up and down movements thereof with respect to the vehicle.

2,612,388
WHEELED SUPPORTING DEVICE ATTACHABLE TO BICYCLES OR CONTAINERS
Francis R. McNeill, New Carlisle, Kenneth Alvin Grillot, Spring Valley, and Frederick Abel, Dayton, Ohio, assignors to The Huffman Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application October 21, 1949, Serial No. 122,724
10 Claims. (Cl. 280—295)



4. Apparatus of the character described for providing auxiliary wheels for a bicycle comprising a pair of frame members each including two portions disposed at substantially right angles to each other, a wheel for each of said frame members, means for supporting said wheels on said frame members, one of said angularly disposed portions of each of said frame members having a slotted aperture therethrough adapted to receive the axle of the rear wheel of said bicycle to support said frame member on said bicycle, each of said apertured frame portions having an additional aperture therein spaced forwardly of said slotted aperture, means cooperating with each of said additional apertures to secure said frame members to the bicycle at a position spaced from said axle, and said slotted apertures being generally vertically arranged to provide for adjustment of said frame members to raise and lower said wheels thereon with respect to the rear wheel of the bicycle.

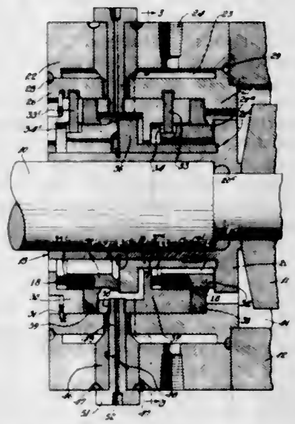
2,612,389
VALVED PIPE COUPLING
William F. MacGlashan, Jr., Alhambra, Calif., assignor to United States of America as represented by the Secretary of the Army
Application August 1, 1950, Serial No. 177,055
2 Claims. (Cl. 284—19)



1. A separable fluid coupling comprising a pair of telescopically interfitting parts, the first of said parts comprising a generally cup like body having from the base thereof a reentrant hollow stem to form a fluid passageway, said stem having a first internally threaded end and a second

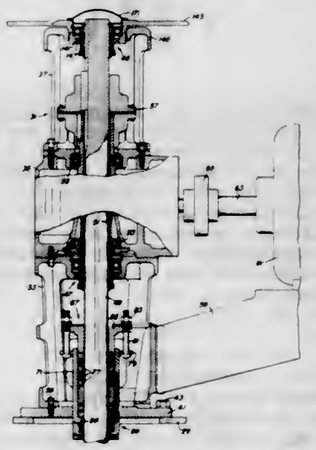
closed end, and having a plurality of lateral ports adjacent said closed end, a sleeve surrounding the closed end of said stem adjacent said lateral ports, means supporting said sleeve on said body for axial movement from first position closing said ports to second position to open said ports and comprising a pair of posts fixedly received in diametrically opposed longitudinal bores formed in said body disposed radially outwardly of said stem, said posts extending beyond said body, and an outwardly struck flange on said sleeve apertured to slidably engage said post extensions, resilient means about said stem biasing said sleeve into port closing position, said second part comprising a hollow cylindrical body having a first closed end lying in abutting engagement with said slidable sleeve, and a second closed end opposed to said first end, each said ends having central axially alined bores, a sleeve extending between said ends in said cylindrical body integral with said body and concentric therewith and having a longitudinal bore in axial alinement with the bores in said closed ends, the outer wall of said sleeve being radially spaced inwardly of the inner wall of said cylindrical body to provide an elongated annular passageway therebetween, a transverse wall in said sleeve intermediate said opposed ends and with the bore in the sleeve forming on the side adjacent the abutting end of said cylindrical body a socket providing a friction fit about the closed end of said hollow stem, the wall of said socket having a first plurality of lateral ports communicating on one side with said elongated passageway and on the other side with the lateral ports in said stem when said first and second parts are telescopically interfitted, the wall of said sleeve having a second plurality of lateral ports on the side of said transverse wall opposed to said socket, said second plurality of lateral ports communicating on one end with said longitudinal bore in said sleeve, and on the other end with said elongated passageway.

2,612,390
SEALING UNIT
Douglas R. Lewis, Summit, N. J., assignor, by mesne assignments, to The Viscoseal Corporation, Union, N. J., a corporation of New Jersey
Application July 9, 1949, Serial No. 103,837
4 Claims. (Cl. 286—9)



4. In a sealing unit for sealing a rotating shaft in an object, an outer shell adapted to be secured to said object, a cap positioned in said shell at one end thereof, a rotor secured to said shaft, a stator ring, means engaging said stator ring and cap to hold the former against the rotor, said stator ring and shell having recessed keyways and said cap having a keyway aperture therein, and a key positioned in the keyway aperture of the cap with its ends disposed in the recessed keyways of the stator ring and shell connecting the stator ring and cap to the shell.

2,612,391
MIXING EQUIPMENT
Richard D. Boutros, Brighton, N. Y., assignor to Mixing Equipment Co., Inc., Rochester, N. Y., a corporation of New York
Application September 16, 1950, Serial No. 185,277
8 Claims. (Cl. 286—9)

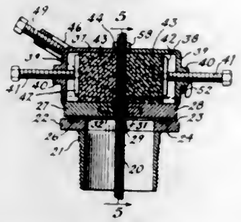


1. A mixing device for use with a fluid-containing receptacle having an opening in a wall thereof, said mixing device comprising a rotatable shaft extending through said opening, a stuffing box closing said opening around said shaft, packing means in said stuffing box accessible through the outer end thereof and from the exterior of the receptacle, an auxiliary sealing means on said shaft adapted for sealing engagement with said stuffing box when the shaft is moved longitudinally through said stuffing box, a supporting frame, bearing means on said frame for rotatably supporting said shaft, and means threadedly engaging said frame and connected with one of said bearing means for moving said one of said bearing means and said shaft longitudinally relative to said frame to bring said auxiliary sealing means into sealing contact with said stuffing box for sealing said opening during withdrawal of said packing means from said stuffing box.

2,612,392
OIL SAVER
John J. Dempsey, Cleveland, Ohio
Application August 11, 1950, Serial No. 178,781
10 Claims. (Cl. 286—16)

1. An oil saver comprising a tubular base member having a lower end for attachment to a well casing and a flat annular upper surface surrounding the bore thereof, a pair of closure plates slideably supported on said surface, said plates having adjacent horizontally aligned edges adapted to be engaged when said plates are slid together along said surface to form a cover substantially closing said bore, a vertical passage through said cover formed by registering notches in the ad-

jacent horizontally aligned edges of said plates, cooperating guide means carried by said plates for guiding them into notch registering relation when they are slide together along said surface, a pair of lips disposed on opposite sides of the vertical passage defined by said notches, each of said lips being rigidly secured to one of said plates and overlying the other when the plates are slid together into notch registering relation, an adjustable clamp mounted on one of said



plates and cooperating means mounted on the other of said plates for drawing the plates together into notch registering relation while the plates are slideable together along said surface, and means operatively mounted on said base member for applying forces downwardly on said lips to clamp said plates in bore closing relation toward said surface with the registered notches aligned with the axis of said bore or laterally offset therefrom.

2,612,393
SEALING GLAND
John Victor Stanley Dahlgren, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 7, 1947, Serial No. 733,161
1 Claim. (Cl. 286—16)



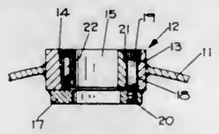
A gland to seal the end of the housing for a Bowden wire or like driving connection which housing has flaring terminals at its opposite ends from which the wire projects, said sealing gland comprising an elastic rubber-like body member having a rear end portion with an axially extending bore conforming generally to the shape of said terminal but of smaller diameter throughout its length and terminating at its inner end in a portion of increasing diameter, the forces engendered by the inherent elasticity of said body member when said rear end is forced over said terminal being sufficient to form a seal therewith and to hold the body member on said terminal, a tubular intermediate portion forming a continuation of the inner end of said rear end portion to provide a chamber surrounding said wire, and a forward end portion forming a forward end wall for said chamber including a centrally located nipple-like projection extending axially toward said rear end portion and having an axial bore adapted closely to surround said wire, the bore being flared at its front end to facilitate rearward movement of the wire, said nipple-like projection forming a wiping edge to clear material from the wire when it is moved outwardly of the sealing gland and being tapered to direct the said material outwardly of the wire, the nipple-like projection being substantially shorter than its base diameter and said forward end portion being substantially thicker in an axial direction than the axial length of the nipple-like projection, for efficient wiping, the said body member being sufficiently resistant to deformation to resist movement of said forward end portion with said wire.

2,612,394
WELDING STUD
Ted Nelson, San Leandro, Calif., assignor to Gregory Industries, Inc., a corporation of Michigan
Application August 19, 1946, Serial No. 691,418
6 Claims. (Cl. 287—20.2)



2. A welding stud having an aperture in the welding end thereof, and a slug of welding flux material expanded against the sides of the aperture to fix the slug therein.

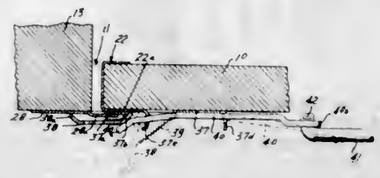
2,612,395
TAPERED LOCKING BUSHING MECHANISM
Glenn Russell, Worthington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application August 26, 1950, Serial No. 181,646
4 Claims. (Cl. 287—52.06)



4. A shaft mountable unit comprising a hub having a tapered bore, a tapered split contractable bushing fitting within said bore and having an interior bore formed to clamp on a shaft, said hub forming at least portions of screw holes extending parallel with the axis of said hub, threaded bolts extending freely through said holes, a ring rigidly attached to said hub and axially spaced from said bushing whereby said bushing may move axially in said hub toward said ring to effect a progressive clamping action of said bushing, said ring forming threaded holes receiving said threaded bolts, said threaded bolts having heads, and ledges adjacent said bolt holes on said bushing adapted to be contacted by said heads while said threaded bolts are free to be fed axially relative to said hub.

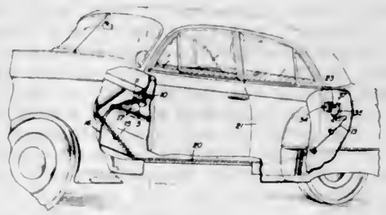
2,612,396
LOCK FOR UPWARD ACTING DOORS
Anthony Venditty, Detroit, Mich., assignor to Crawford Door Company, Detroit, Mich., a corporation of Michigan
Original application November 22, 1944, Serial No. 564,596, now Patent No. 2,552,752, dated May 15, 1951. Divided and this application October 12, 1946, Serial No. 703,042
2 Claims. (Cl. 292—47)

1. In an upward acting door construction of the type including a door tiltably mounted in a doorway, an improved locking means comprising, weatherstrips adapted to overlie the inner face of the door at the side edges of the doorway, offset pockets formed on said weatherstrips, plates adapted to be mounted on the inner face of the door and having offset mating portions arranged to project into said pockets when the door is closed in full engagement with said weatherstrips, flippers pivotally mounted on said plates and each having an arm portion adapted to overlie the weatherstrips in thrusting engagement therewith, springs stretched between said plates and said



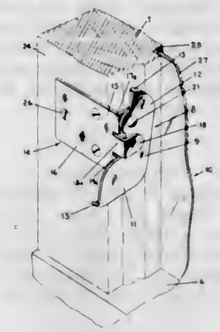
flippers for pivoting the flipper arm portions to extend inwardly from the side edges of the door, lock bars slidably mounted on said plates and having offset free ends constituting presser foot portions arranged to slide over and depress said flippers against the bias of said springs, and means for propelling said lock bars toward said flippers to swing the flippers about their pivots against the spring pressure into thrusting engagement with the weatherstrips, said flippers having bent-over end portions cooperable with said weatherstrips for pulling the door into closed position and for clamping the door in said closed position.

2,612,397
AUTOMOBILE REAR DOOR LATCH
James D. Stutt, Paradise, Tex.
Application December 19, 1949, Serial No. 133,747
1 Claim. (Cl. 292—166)



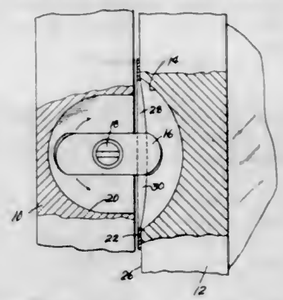
A door latch for latching the rear door of an automobile to the automobile frame comprising a horizontal latch bolt adapted to be mounted in said frame for movement into and out of locking engagement with said rear door, said latch bolt having front and rear ends, a manually operative latch bolt retracting member adapted to be slidably mounted in the frame for retraction, and means for moving said latch bolt out of locking engagement by manual retraction of said retracting member comprising a bell crank having a pivotal mounting on said frame, a motion transmitting link connected at one end to one end of said bell crank and at its other end to the rear end of said latch bolt and compensating for pivoting of said bell crank relative to said latch bolt, and a flexible pull member having one end connected to the other end of said bell crank and its other end connected to the bolt retracting member.

2,612,398
WINDOW STOP DEVICE
Morris M. Miller, Des Moines, Iowa
Application May 23, 1949, Serial No. 94,875
1 Claim. (Cl. 292—230)



A device for limiting the opening movement of the sashes in a window comprising, a flat pivoted pendent member of a substantially L-shape, a bracket adapted to be secured against the front surface of a side frame member of the upper sash in said window having an end section positioned opposite the glass pane of said upper sash, a series of three lateral projections on said end section extended toward said glass pane and spaced horizontally from said bracket member in a spaced relation transversely of said bracket member, with two of said projections being in a common vertical plane, and the third one of said projections being located intermediate said two projections in a vertical plane parallel to and spaced outwardly from said common plane, and a pivot for said pendent member carried in the upper one of said two projections, with said two projections being opposite one side of said pendent member and said third projection opposite the other side of said pendent member to guide the pivotal movement of said pendent member, said pivot being extended through the free end of the long leg of said pendent member so that the short leg of the pendent member is movable to a position below and in contact engagement with the third one of said projections, with said pendent member, in a rest position, having the short leg thereof within the path of movement of the lower sash so as to be engaged by the lower sash on raising thereof.

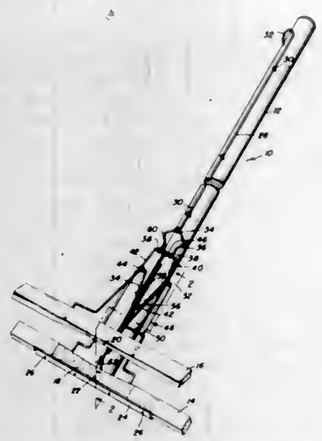
2,612,399
GUIDE PLATE FOR LATCHES
Frank Mastrangelo, Fitchburg, Mass.
Application February 2, 1950, Serial No. 141,930
2 Claims. (Cl. 292—340)



1. A bolt guiding device comprising an elongated plate having an elongated, central nar-

row slot therein, and flanges extending from the plate at one side thereof and defining the slot, said flanges firmly impinging upon the side walls defining a narrow opening in a member upon which the bolt guiding device is adapted to be mounted, said flanges being effective to guide a bolt into the opening and guard the side walls of the same against damage by the bolt, said plate slot being elliptical in form and the flanges wedging against the side walls of the said opening in the said member.

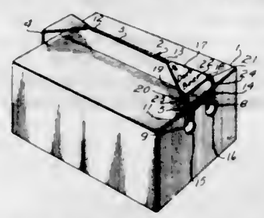
2,612,400
ARTICLE PICKUP DEVICE
Robert Henry Facio, Sr., New Orleans, La., assignor of one-third to Julia Billings and one-third to Helen Pomes, both of New Orleans, La.
Application February 20, 1948, Serial No. 9,729
1 Claim. (Cl. 294—19)



A grapple comprising an elongated handle, a transversely elongated stationary jaw on one end of said handle, a substantially M-shaped wire frame having its intermediate portion secured on the handle and its leg portions secured at their free ends to said stationary jaw, a substantially U-shaped wire lever mounted for swinging movement on the frame, the legs of said lever being angular and including loops at the angles thereof journaled on said intermediate portion of the frame adjacent the legs thereof, a swinging jaw mounted on the free end portions of the legs of the lever and cooperable with the stationary jaw, a coil spring connected to the bight portion of the lever for closing the swinging jaw, a substantially U-shaped link pivotally connected to said bight portion of said lever, and an operating rod slidably mounted on the handle and pivotally connected to the link for manually opening said swinging jaw.

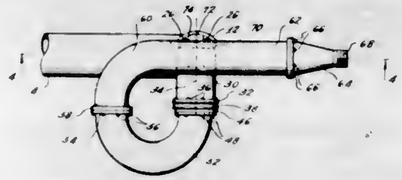
2,612,401
HANDLE FOR CARTONS OR THE LIKE
Glen G. Simmonds, Kansas City, Mo.
Application April 6, 1949, Serial No. 85,841
1 Claim. (Cl. 294—27)

A detachable handle for cartons having laterally spaced openings in the ends thereof comprising, an elongated body member forming a hand hold, said body member being two wire portions twisted one around the other, end members on the ends of the body member, said end members being wire loops having downwardly inclined diverging portions terminating in depending laterally spaced substantially parallel portions having inturned lower ends forming hooks adapted to engage in the spaced openings in the ends of the carton, said inturned ends being connected by inverted U-shaped cross bars in the planes of the depending laterally spaced portions for en-



gaging the ends of the carton, and brace members of sheet material substantially coextensive with and extending between the diverging portions and having edges turned therearound for retaining said diverging portions against relative lateral and bending movement.

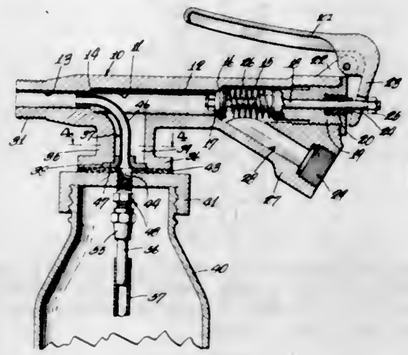
2,612,402
HYDRAULIC GIANT NOZZLE
John A. Miscovich, Fairbanks, Territory of Alaska, assignor of one-half to George S. Allin, Seattle, Wash.
Application November 8, 1948, Serial No. 58,897
3 Claims. (Cl. 299—73)



3. In a hydraulic giant a substantially horizontal penstock section for supplying fluid under pressure, the discharge end of said section being curved upwardly and terminating in a substantially horizontal end face, a swivel joint on said end face having a substantially vertical axis, a 90° elbow having one end swiveled on said joint and its other end disposed at right angles to the axis of said penstock end, a second swivel joint on the second mentioned end of said elbow and having a substantially horizontal axis and a nozzle section having one end swiveled on said second joint, said nozzle section being curved substantially 270° in a horizontal plane with the discharge end thereof in the same vertical plane as the axis of said first joint whereby fluid discharged from said nozzle under pressure will cause no reaction in a horizontal plane.

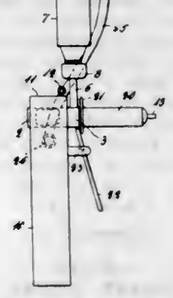
2,612,403
DEVICE FOR MIXING FLUIDS
Wilbur A. Burch, Warren, Ohio
Application August 2, 1949, Serial No. 108,112
7 Claims. (Cl. 299—84)

1. A device for mixing two fluids and issuing the mixture in a common stream, comprising: a body having an elongated opening adapted for communication with a first fluid under pressure, and also having a laterally projecting portion formed with an opening extending transversely with respect to said elongated opening and intersecting the same, said projecting portion having a recess in its terminal face; a reservoir for a second fluid, including a cover abutting said terminal face and having removable connection with said projecting portion; a first conduit having a collar seating in said recess and clamped between said cover and said terminal face, said conduit extending through said transverse opening and



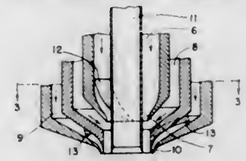
having an extremity terminating within said elongated opening; and a second conduit for connecting said first conduit with the interior of said reservoir, and comprising a coupling nipple, an orifice plug of fixed opening size within said coupling nipple, and a flared-type nut held in sealing arrangement with said orifice plug.

2,612,404
PAINT SPRAYING DEVICE
John Olle Andersson, Ektorp, Sweden
Application September 20, 1949, Serial No. 116,832
In Sweden September 21, 1948
2 Claims. (Cl. 299—89)



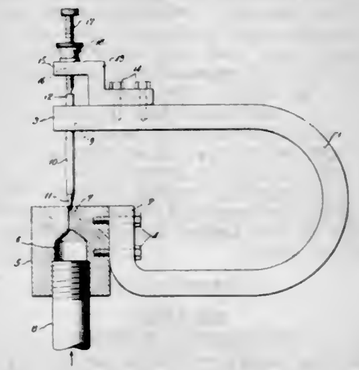
1. A paint spraying device, comprising a paint and air nozzle holder, a tubular handle attached to the nozzle holder and forming an air supply conduit, a paint nozzle on the fore end of the nozzle holder, a paint valve, a valve operating device on the handle, valve actuating means including a spring housing attached to the rear end of the nozzle holder, a tubular air nozzle attached to the nozzle holder and projecting transversely through the tubular handle, a paint container mounted on the nozzle holder, an elastic conduit forming a connection between the paint container and the interior of the handle for maintaining a pressure above atmospheric in the paint container, and a tube connecting the elastic conduit with the upper portion of the paint container, said tube extending radially of the paint container and being rotatable about the longitudinal axis of said container.

2,612,405
SPRAYING NOZZLE
Emil Kirschbaum, Grotzingen, near Karlsruhe/Baden, Germany, assignor to Industriewerke Karlsruhe Aktiengesellschaft, Baden, Germany
Application June 5, 1950, Serial No. 166,119
In Germany June 2, 1949
5 Claims. (Cl. 299—115)



1. In an atomising nozzle, an inner gas stream conductor an outer gas stream conductor annularly disposed around said inner conductor, an annular liquid conductor disposed between said gas stream conductors, said conductors being coaxial, means in at least one of said gas stream conductors for imparting a circular component to the motion of the gas stream therein before it leaves the nozzle, whereby the discharge from the nozzle spreads over a wide angle, and means at the end of the liquid conductor for directing the liquid inwardly toward the axis of the nozzle to mingle the liquid.

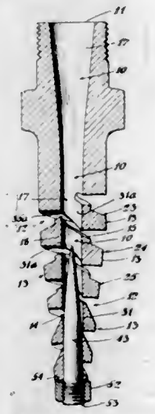
2,612,406
ATOMIZING NOZZLE
Fred Kurata, Lawrence, Kans., assignor to Kask Technical Corporation, Jackson Heights, N. Y., a corporation of New York
Application August 12, 1948, Serial No. 43,829
9 Claims. (Cl. 299—121)



1. An atomizing nozzle comprising a body portion having a chamber within said body portion; a conduit supplying liquid under pressure to said chamber; an outlet orifice of smaller dimensions communicating with said chamber; a bow spring rigidly attached to said body portion, said bow spring extending over said outlet orifice, said bow spring having an aperture therethrough aligned with said outlet orifice; a valve member extending through said aperture and seating in said outlet orifice; and an adjusting screw urging said valve member towards said outlet orifice asso-

ciated with a bracket rigidly attached to said bow spring, the arrangement being such that said valve member is maintained in forced rapid vibration by the pressure of said liquid acting on a resonant system comprising said spring and parts associated therewith.

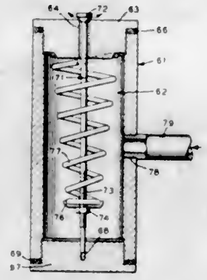
2,612,407
SPRAY NOZZLE
John U. Bete, Stoughton, Mass., assignor to Bete Fog Nozzle, Inc., Greenfield, Mass., a corporation of Massachusetts
Application April 6, 1951, Serial No. 219,549
6 Claims. (Cl. 299—121)



1. A nozzle for producing a spray of desired characteristics directed outwardly around an axis comprising a generally tubular member having a passage to form a liquid jet around said axis, a core member coaxial with said tubular member and positioned centrally in said jet and tapered to divert the jet flow progressively outward in annular formation around said core member and a single vane winding helically around said annular jet and having a relatively narrow helical slot of smaller axial width than the axial thickness of said vane and with an active surface of said vane inclined outwardly at an angle to said axis with its inner edge spaced progressively nearer to the surface of said tapering core, the angle of said active surface becoming greater at the core end of the nozzle so that as the jet is progressively spread outwardly by said core a portion engages the active surface with the greater angle and is peeled off the jet and diverted outwardly by the active surface to form a full cone-shaped spray.

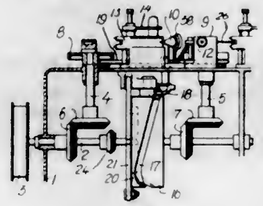
2,612,408
ATOMIZING NOZZLE
Fred Kurata, Lawrence, Kans., assignor to Kask Technical Corporation, Jackson Heights, N. Y., a corporation of New York
Application August 12, 1948, Serial No. 43,939
10 Claims. (Cl. 299—125)

1. An atomizing nozzle comprising in combination a body portion having a chamber within said body portion and a stationary outlet orifice having an edged seat and of substantially smaller cross-sectional dimension than said chamber, a moveable valve member adapted to freely move its normal span of movement in a substantially longitudinal direction along the axis of said orifice and having a valve head terminating adjacent said orifice and seated on the edged seat of said outlet orifice, said valve head having a maximum diameter not greater than 1½ times the diameter of the orifice and an apex angle



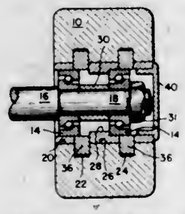
between about 60° and about 150° at its point of seating on said orifice and a spring positioned within said chamber urging said valve head towards said outlet orifice.

2,612,409
BRUSH-MAKING MACHINE
Ernst Aberle, Lillehammer, Norway
Application August 20, 1947, Serial No. 769,561
In Norway August 21, 1946
3 Claims. (Cl. 300—3)



1. In a brush making machine comprising devices for the drilling of bristle tuft receiving holes in a brush stock, devices for the formation of bristle tufts to be inserted into the said holes, devices for the cutting and feeding of staple wire to bind the said tufts in the said holes and devices for the placing of the said bristle tufts in the said holes and fixing the same by means of the said staple wire, said devices being combined into a tool head which is rotatably mounted on an axis, and means for moving said brush stock toward and away from said tool head in a path perpendicular to the said axis.

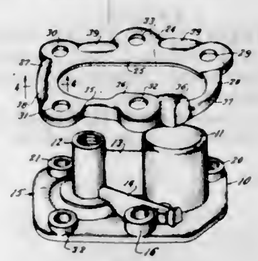
2,612,410
SKATE WHEEL
Veral E. Deschenes, Seattle, Wash.
Application July 3, 1951, Serial No. 235,031
6 Claims. (Cl. 301—5.7)



3. A skate wheel, comprising: a tread portion having a central bore provided with an inwardly

facing groove concentric with the axis of the tread; a rigid sleeve forming a hub for said wheel and having an outer cylindrical surface adapted to fit tightly and non-rotatably into said central bore, said sleeve having through the wall thereof a pair of spaced apart slots communicating with and located radially inward of said groove; a pair of longitudinally spaced apart antifriction bearings disposed within said sleeve, one of said bearings closing the slots communicating with said groove; axle means journaled in said bearings; and a key fitted in each said slot and seated in a portion of the adjacent groove and extending between the bottom of the groove and the outer surface of the interiorly located antifriction bearing.

2,612,411
COMBINED PRESS AND CLAMP
Thomas H. Birch, Milwaukee, Wis.
Application October 24, 1950, Serial No. 191,903
1 Claim. (Cl. 303—1)



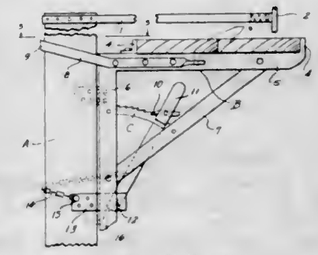
A combined press and clamp frame for straightening and maintaining straight the back cover of an AB valve which has buckled into leaking relation with the body of the valve and which includes an upstanding dome in its central area and bosses in its marginal area for receiving elements fastening the cover to the body, said frame comprising a rigid metallic plate having a central opening for passing said dome and having a marginal area internally contoured to accommodate said bosses and apertured to pass said fastening elements and provided with downwardly directed flanges between said boss-accommodating contours for pressing the marginal area of the cover firmly against the valve body when the frame is interposed between the body and cover and the fastening elements are set up.

2,612,412
APPARATUS FOR PREVENTING UNDESIRED RELEASE OF FLUID PRESSURE BRAKES
Andrew T. Gorman, Pitcairn, and Earle S. Cook, Forest Hills, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application September 28, 1950, Serial No. 187,262
7 Claims. (Cl. 303—14)



1. In a fluid pressure brake apparatus, in combination, a pipe, means movable to a brake release position in response to a chosen pressure of fluid in said pipe and to another position upon reduction in pressure of fluid in said pipe below said chosen pressure, two control valve devices connected to spaced apart portions of said pipe and operative to either supply fluid under pressure to said pipe or to vent said pipe, a cut-out valve device for each control valve device for selectively opening and closing communication between said pipe and the respective control valve device, and a leakage passageway for opening said pipe to atmosphere for dissipating leakage of fluid under pressure to said pipe with said cut-out valve devices in their communication closing position.

2,612,413
SCAFFOLD SUPPORT
Louis M. Polak, Jr., Bethlehem, Pa.
Application October 4, 1946, Serial No. 701,139
2 Claims. (Cl. 304—11)

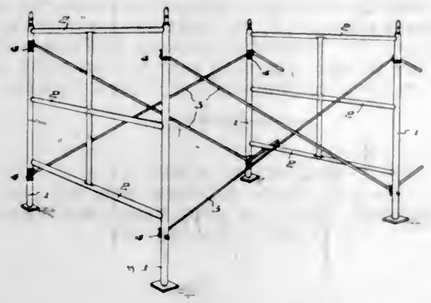


1. The combination with a vertical post having a plurality of spaced apertures along one face thereof, of a scaffold support mounted on said post for vertical adjustment therealong, said scaffold support comprising a bracket supported on said post for vertical movement and including a horizontal leg for supporting scaffold boards, a vertical leg arranged in parallel spaced relation with respect to said one face of said post and having the upper end fixedly secured to one end of said horizontal leg, a detent carried adjacent the lower end of said vertical leg for selectively engaging the apertures in said vertical post, a brace extending from said vertical leg above and spaced from said detent to said horizontal leg adjacent the other end of the latter and fixedly secured to said vertical and horizontal legs, an arcuate ratchet track positioned intermediate said vertical leg and brace and fixedly secured thereto, an upstanding lever having the lower end pivotally connected to the vertical leg of said bracket for movement about a horizontal axis, a flexible element extending about the other face of said post and having one end secured to said post and having the other end secured to said lever intermediate its ends, and a pawl carried by said lever and engaging said ratchet track for holding said detent in a select one of said apertures.

2,612,414
BRACE BRACKET FOR SCAFFOLDS AND THE LIKE
John A. Kirkpatrick, Zelienople, Pa., assignor to Universal Manufacturing Corp., Zelienople, Pa., a corporation of Pennsylvania
Application November 21, 1950, Serial No. 196,832
4 Claims. (Cl. 304—40)

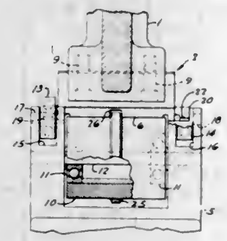
1. A bracket for detachably connecting a brace having a perforated end to a leg of a scaffold and the like, the bracket comprising a supporting member formed for attachment to the side of said leg, a vertical pin extending upward from said member and adapted to have the end of a brace slid down over it, the pin being provided with a slot extending downward from its upper

end, and a latch pivotally mounted in the slot and having a lateral projection at its upper end



for overlying the brace to lock it on the pin when the latch swings outward in the slot.

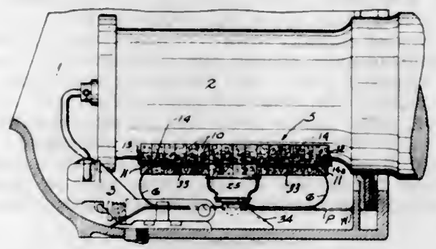
2,612,415
PIVOT BEARING
Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application April 9, 1946, Serial No. 660,829
2 Claims. (Cl. 308—2)



1. In a device for pivotally connecting two members for the transmission of force therebetween, in combination, a first roller of substantial length journaled with its axis generally perpendicular to the line of force, auxiliary rollers one at each end of the first roller positioned with their axes spaced from and parallel to the axis of the first roller so that the roller peripheries overlap, a pivoting member that has a principal knife edge resting against an element of the first roller and auxiliary knife edges resting against the auxiliary rollers, and a raised band around the first roller which band engages a notch in the principal knife edge to prevent longitudinal movement of the knife edge.

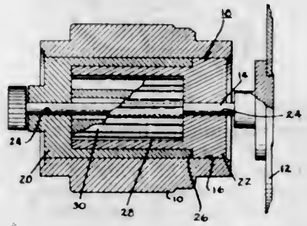
2,612,416
RAILWAY JOURNAL LUBRICATOR DISTRIBUTOR
James J. Hennessy, Chambersburg, Pa., assignor to Hennessy Lubricator Company, Inc., Chambersburg, Pa., a corporation of Delaware
Application August 3, 1949, Serial No. 108,325
6 Claims. (Cl. 308—84)

1. In a distributor for a railway journal axle box lubricator, a series of flat pads arranged upright and face to face with their upper edges shaped to engage the surface of a journal to be lubricated, means yieldingly holding said pads face to face but accommodating the tilting of the pads about their upper edges and relative to each other to accommodate the insertion and removal of the distributor as a unit between a journal and the bottom of a box mounted thereon, the pads being divided lengthwise of the distributor into two portions tiltable relative to each other



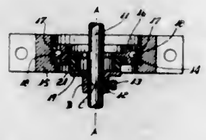
about a central axis extending longitudinally of the distributor, there being means yielding restraining the two portions against tilting.

2,612,417
BEARING UNIT STRUCTURE
Elzie C. White, Princeton, Ind., assignor to Hansen Manufacturing Company, Princeton, Ind., a corporation of Indiana
Application October 11, 1949, Serial No. 120,740
4 Claims. (Cl. 308—132)



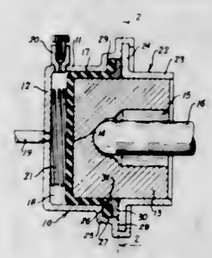
1. A bearing having spaced relatively short bearing surfaces and a relatively long cavity therebetween and a rigid capillary element in said cavity surrounding and spaced from the space through which a shaft journaled in said surfaces extends and operable to convey lubricant from said cavity to said bearing surfaces by capillary action regardless of the position of said bearing, said element comprising a cylindrical member having axially extending grooves in its outer periphery.

2,612,418
MOUNTING FOR ROTATING BODIES
Alvin S. Krotz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 1, 1947, Serial No. 738,662
4 Claims. (Cl. 308—184)



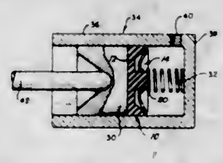
1. The combination with a body rotatable about an axis, of a stationary supporting structure, a bearing non-resiliently mounted in said supporting structure and entirely spaced from the rotatable body, an intervening cushioning body of resilient rubber material having portions secured to a portion of said bearing and to a portion of said rotatable body axially spaced-apart from said portion of said bearing, and said cushioning body in radial planes thereof being free and spaced-apart from said bearing and rotatable body providing a space around said cushioning body for free radial movement of said cushioning body in said planes to stress said cushioning body substantially completely in shear upon relative radial movement of said bearing and said rotatable body.

2,612,419
PISTON SEALING ASSEMBLY
Noel S. Reynolds, St. Louis, Mo.
Application March 12, 1949, Serial No. 81,169
7 Claims. (Cl. 309—23)



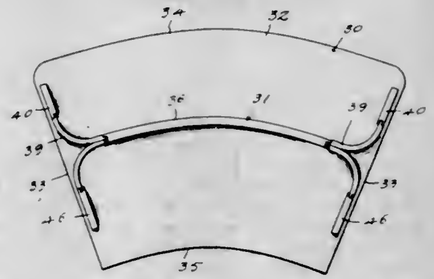
1. In apparatus of the class described, a fluid pressure receiving cylinder, a piston having a head portion of uniform diameter and with its diameter smaller than the cylinder to thereby provide a space between the cylinder and the wall of the piston head, a cup-shaped diaphragm covering the piston head and having a side wall of flexible material positioned in and filling the space between the cylinder wall and the piston head wall when the piston is in inoperative position, and means for securing the wall of the cup-shaped diaphragm adjacent its open end to the cylinder wall in fluid tight relation, said cup-shaped diaphragm when acted upon by fluid pressure in the cylinder to cause movement of the piston toward the open end of the diaphragm causing the bottom wall of the diaphragm to move with the piston as a unit and the wall of the diaphragm to be turned back on itself by a "rolling" action.

2,612,420
PACKING CUP EXPANDER
Noel S. Reynolds, St. Louis, Mo.
Application June 6, 1949, Serial No. 97,401
3 Claims. (Cl. 309—34)



1. In combination, a piston sealing member and expander element therefor comprising a unitary assembly for association with a piston in a manner separable therefrom by only a relative axial movement, and also for association with a cylinder and a spring member, said sealing member of the assembly comprising a single structure of yieldable material including an imperforate body to abut the piston head and an annular forwardly extending sealing lip for engaging the wall of the cylinder, and said expander element being constructed to have an annular portion with an outwardly flared surface for engaging the sealing member lip inwardly of the peripheral portion engageable with the cylinder, said expander element being mounted on the sealing member for relative axial movement toward the sealing member and the lip of the sealing member being constructed so that the flared surface of the expander element will have approximately line contact therewith inwardly of the lip sealing edge so that when axial force is applied to the expander element by a spring the expander element will apply maximum outwardly directed force on the lip edge, and means formed as a part of the flexible sealing member and upon which a part of the expander element is guided for preventing the expander element from shifting laterally with respect to the axis of the sealing member.

2,612,421
DESK
William James Bargen, Waukegan, Ill.
Application May 20, 1947, Serial No. 749,288
2 Claims. (Cl. 311—1)

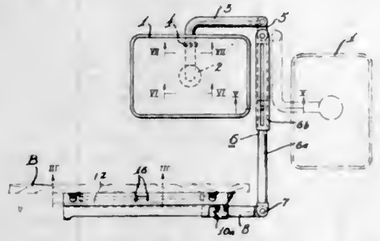


1. In a desk construction a standard and a desk top of sector shape having a convex outer edge, a concave inner edge conforming to the curvature of said outer edge and straight side edges, said standard including an arcuate central panel conforming to the curvature of said outer and inner edges extending transversely beneath said top and positioned intermediately between said outer and inner edges, arcuate members interlocked with the end of said panel diverging forwardly and rearwardly in opposite directions from each end thereof and front and rear leg portions elongated in transverse section interlocked with the divergent ends of each member extending longitudinally along said side edges, said top and said standard being comprised of laminations of integrally formed moulded plywood.

2,612,422
SWINGABLE AND VERTICALLY ADJUSTABLE BED TRAY
Philip G. Sarkus, Donora, Pa.
Application October 20, 1951, Serial No. 252,304
5 Claims. (Cl. 311—27)

1. In combination with a bed headboard, swingable mounting means mounted on the rear sur-

face of said headboard and including a horizontally slidable bolt means having pivotally connected thereto and pivotally movable arms forming a tray supporting means, a tray supported by said supporting means and being swingably mounted in a horizontal plane as well as in a vertical plane in a manner so that it may be moved to the rear of the headboard completely out of sight.



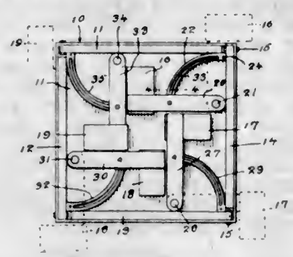
2,612,423
SLIDING TABLE TOP CONSTRUCTION
Charles H. Hennell, Inglewood, Calif.
Application July 28, 1949, Serial No. 107,305
4 Claims. (Cl. 311—35)



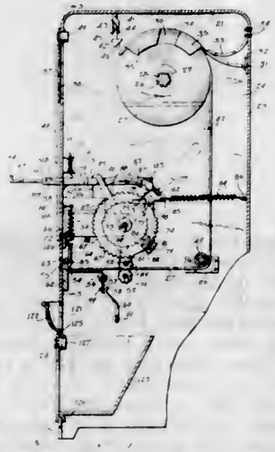
1. A table of the type described for use with fixed arcuate seat structure in a booth, said table comprising: a floor-engaging support means; a support member carried by said support means, said member providing a support surface extending substantially in a horizontal plane; a table top slidingly resting on said support surface for universal movement in said plane; and means forming a stop shoulder around the periphery of said table top extending below said plane to engage said member around the periphery of said support surface to limit the range of universal movement of the table top on the support member, said table top being dimensioned relative to said support surface for maximum overhang in any direction substantially less than the dimension of the support surface in the same direction to make said table top stable at all positions, said table top being freely liftable from said surface for access to the floor adjacent said support means.

2,612,424
CARD TABLE WITH INDIVIDUAL TRAYS
Frederick J. Hochalter, Stillwater, Minn.
Application July 22, 1949, Serial No. 106,185
2 Claims. (Cl. 311—103)

1. In a collapsible table, a table top, a plurality of arms arranged below said table top and each having an end pivotally connected thereto, a tray secured to the other end of each of said arms and mounted for movement in a horizontal plane, and means for guiding each of said arms during movement of the trays, said last-named means comprising a runner secured to the under surface of said table, said runner being provided with opposed L-shaped side portions forming an arcuate track, and a cylindrical member connected to said arm and mounted for travel in the L-shaped side portions of said track.

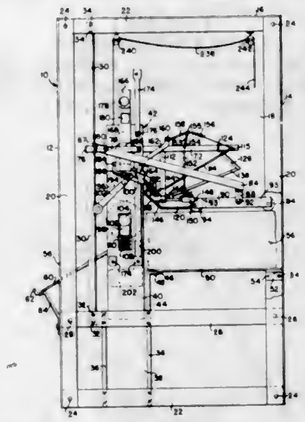


2,612,425
TOWEL FEEDING AND CUTTING MACHINE
Charles Jacobson, Brooklyn, N. Y.
Application December 23, 1949, Serial No. 134,681
6 Claims. (Cl. 312—39)



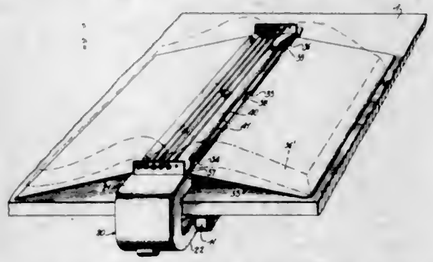
1. In a towel dispensing machine of the class described, means for holding a supply of toweling material, coacting feed rollers for feeding said toweling material from said supply, a manually operable handle for controlling the operation of said feed rollers, and means operated by said handle for cutting off the length of toweling material extended by said feed rollers, said feed rollers being connected for unitary movement by intermeshed pinions, a driver gear engaged with one of said pinions, and means interconnecting said handle and said driver gear for causing the driver gear to be turned through a portion of a complete revolution for each operation of the handle, the periphery of said driver gear being sub-divided into separate operating portions each having a toothed section and an untoothed section, said toothed sections of said driver gear being longer than said untoothed sections so that the feed rollers will be idle during the latter part of each of said portions of a complete revolution of said driver gear, said cutting off means comprising blades located on opposite sides of the toweling material after leaving said feed rollers, one of said blades being pivotally mounted, and an arm extending from said handle and operative during that part of each portion of a complete revolution of said driver gear when said feed rollers are idle to pivot the pivotally mounted blade and cut off the extended end of said toweling material.

2,612,426
NEWSPAPER VENDING MACHINE
Clarence L. Hawks, Fruita, Colo.
Application June 18, 1947, Serial No. 755,305
9 Claims. (Cl. 312—55)



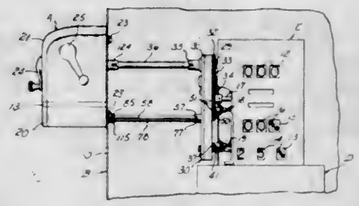
1. A vending machine comprising, a container adapted to support a stack of relatively flat articles therein, a guide mounted in said container, and mechanism for dispensing said articles from said container comprising a frame movably mounted therein, gripping means on said frame engageable with said guide and operatively associated with said stack for controlling the position of said frame in response to variations in height of said stack, a pair of feed rollers rotatably mounted in said frame, a drive shaft extending axially from opposite ends of one of said rollers and having an operating handle at one of said ends and a crank arm at the other of said ends, a horizontal yoke attached to the upper portion of said frame, a pair of tracks depending from said yoke, a crankshaft mounted for oscillation on said yoke, a feed bar guided by said tracks and connected to said crankshaft for movement thereby to feed one of said articles to said rollers, a connecting rod extending between said crank arm and said crankshaft for oscillating the latter, a feed bar trap adjacent said tracks normally rendering said bar ineffective, and means subject to operation by said handle for controlling the action of said trap to render said feed bar effective.

2,612,427
BOOK SUPPORT ATTACHMENT
Harry Richard Faulkner, Joseph Newland Pettus, and John Rodman Bradshaw, Stanford, Ky.
Application October 14, 1948, Serial No. 54,502
14 Claims. (Cl. 312—233)



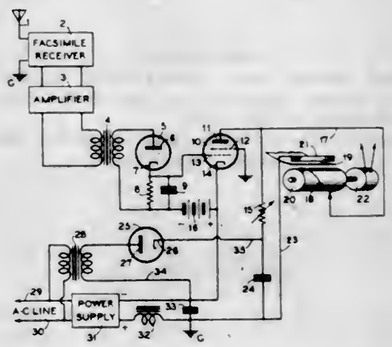
1. An attachment for mounting a book in a cabinet structure comprising a trackway, a book carrier arm having rollers mounted upon a bearing for engagement with said trackway whereby said arm can be reciprocated, book retention means on said arm, cup means at one end of said trackway for retention of said rollers during rotation of said arm on said bearing and locking means for said arm comprising a resilient member adapted to engage said bearing in detachable relationship.

2,612,428
RECORDER
Harold B. Vroom, Hartford, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application January 7, 1950, Serial No. 137,465
18 Claims. (Cl. 346—14)



1. In a recorder for connection to a register of the type having a first rotatable shaft for resetting the register to zero and a second shaft rotated in response to the number of units registered, the combination comprising a plurality of wheels having printing indicia thereon, means for advancing said wheels connectible to said second shaft, means for resetting the printing wheels to zero connectible to said first shaft, means for adjusting the rotated position of the printing wheels to align the printing indicia thereof, means for taking a printed impression of said printing wheels, and means operable independently of the resetting means for actuating the aligning means and the printing means in sequence.

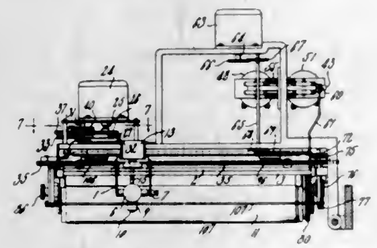
2,612,429
BUCKING CURRENT CIRCUIT FOR HALF-TONE FIDELITY CORRECTION
Frank A. Hester, New York, and John W. Smith, Whitestone, N. Y., assignors to Faximile, Inc., New York, N. Y., a corporation of Delaware
Application December 17, 1948, Serial No. 65,926
2 Claims. (Cl. 346—33)



1. In a facsimile recorder, the combination of, a vacuum tube having at least a cathode, a control grid, a screen grid and a plate, a source of facsimile signals applied to the grid circuit of said

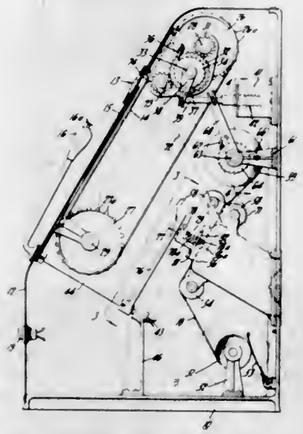
tube, facsimile recording electrodes, electrolytic recording paper and a first source of plate voltage connected in series in circuit with the plate and cathode of said tube, said tube being characterized by having a non-linear grid voltage-plate current relationship below a predetermined value of plate current, and an impedance and a second source of plate voltage connected in series in circuit with the plate and cathode of said tube, said impedance and second voltage being selected to effect the flow of said predetermined value of plate current in the tube, whereby facsimile signals applied to the grid of the tube cause additional plate current which flows through the recording paper and which bears a linear relationship with the voltage of the facsimile signal.

2,612,430
CYCLE TIME RECORDER
John D. Heide, Ramsey, and John E. Feldman, Garfield, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 5, 1949, Serial No. 74,752
11 Claims. (Cl. 346—33)



1. In a recording mechanism, a supporting structure including a pen device movable across the face of a chart to trace a line thereon, means for pivotally mounting said supporting structure to move the pen device at right angles to the line, said means including a supporting rod, suspending links pivotally attached to the ends of said rod, a carrying rod pivotally attached to the lower ends of said links, a bracket slideably mounted on said carrying rod, said pen device being pivotally mounted in said bracket, a solenoid, and a lever carried by one of said links and operable by said solenoid to move said carrying rod whereby to cause movement of the pen device.

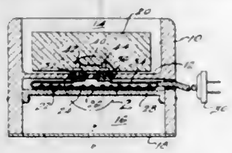
2,612,431
SURVEY RECORDER
David W. Galloway, Jr., Berkeley, Calif.
Application April 7, 1947, Serial No. 739,935
9 Claims. (Cl. 346—33)



5. A survey recorder, comprising an endless belt for exhibiting rows of data in sequence, choice indicating means aligned with a row of data being exhibited and movable transversely thereof to any position between end limits of movement of said indicating means, record holding means including means for adjusting a record therein in synchronism with said data exhibiting belt, recording means related to said record holding means, an operation control for said recording means associated with said choice indicating means, and means for positioning said recording means with respect to a record in said record holding means in accordance with the choice indicated by operation of said indicating means.

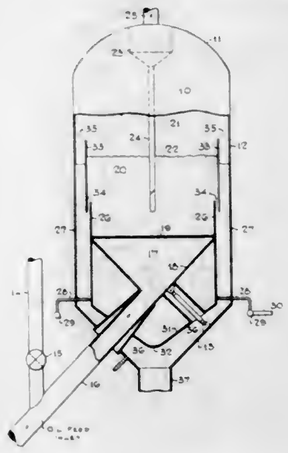
CHEMICAL

2,612,432
VAPORIZER
Leonard Boddy, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application December 2, 1949, Serial No. 130,796
26 Claims. (Cl. 21—119)



1. A vaporizing device comprising a container for receiving vaporizable material which is normally in solid form but which is vaporizable upon the application of heat, thermally responsive control means normally embedded in and carried by said material in heat exchange relation therewith and having a critical operating temperature, means for supplying heat to said material to vaporize it and to said element at such rate as to be normally effective to raise it to said critical operating temperature, said material having a vaporizing temperature below said critical temperature whereby said material is effective by virtue of said heat transfer relation to maintain the temperature of said control means below said critical temperature until the vaporization of said material has progressed to a predetermined degree, said control means being effective when it reaches said critical temperature for reducing the heat supplied by said heat supplying means, and means forming a releasable heat energy transfer connection between said control means and said supply means whereby said control means may be removed prior to the placing of a fresh charge of new material into said container.

2,612,433
MODIFICATION OF ANNULAR STRIPPER
Lloyd A. Nicolai and Byron V. Molstedt, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application February 5, 1948, Serial No. 6,444
11 Claims. (Cl. 23—1)



1. An apparatus including a cylindrical vessel for contacting gasiform materials with finely divided solids adapted to be maintained as a dense, dry, liquid-simulating fluidized bed in the lower portion of said vessel, an inlet chamber in the bottom portion of said vessel for the supply of gasiform materials and solids thereto, a circular perforated distribution plate arranged substantially horizontally at the upper portion of said inlet chamber, said plate being concentric with said vessel but of smaller diameter, a vertically disposed cylindrical member surrounding said distribution plate and extending above it, said cylindrical member being spaced from the inner wall of said vessel to provide an annular passageway for the withdrawal of solids from the dense fluidized bed adapted to be maintained in said vessel, radial baffles extending between the inner wall of said vessel and the outer wall of said cylindrical member dividing said annular passageway into a plurality of long narrow stripping sections, means for introducing a stripping agent into the lower portion of each of said stripping sections, a cylindrical baffle member arranged adjacent to the upper end of said cylindrical member and extending upwardly above the maximum level of the dense, dry, liquid-simulating bed adapted to be maintained in said vessel, the lower end of said cylindrical baffle member being coextensive with the upper end of said cylindrical member and being uniformly spaced therefrom to provide a restricted opening from the dense fluidized bed adapted to be maintained in said vessel into said annular passageway, said cylindrical baffle member comprising an inverted frusto-conical section, the smallest diameter of which is substantially the same as the diameter of said cylindrical member and the largest diameter of which is a little less than the internal diameter of said vessel, and a cylindrical section provided on the upper end of said inverted frusto-conical section and of substantially the same diameter as the upper end of said frusto-conical section, the lower and smaller diameter of said baffle member being arranged in close proximity to the upper end of said cylindrical member to provide said restricted opening from the dense fluidized bed adapted to be maintained in said vessel directly into said annular passageway for the withdrawal of solids directly from the dense fluidized bed adapted to be maintained in said vessel into said annular passageway, said baffle member being spaced from the inner wall of the vessel to provide an outlet port well above the maximum level of the dense fluidized bed adapted to be maintained in said vessel for the discharge of stripping agent and stripped-out material released in said annular passageway, an outlet for gasiform material in the upper portion of said vessel and an outlet for solids in the lower portion of said vessel.

9. A process for contacting gaseous fluid and finely divided solids which comprises supplying gaseous fluid and finely divided solids to a cylindrical vessel, controlling the velocity of the gaseous fluid passing upwardly through said vessel to form a dense, fluidized, liquid-simulating bed of solids in the lower portion of said vessel with a dilute phase thereabove, removing gaseous fluid substantially free from solid particles from the dilute phase in the upper portion of said vessel, withdrawing solid particles as a multiplicity of separate streams directly from said dense fluidized solids bed at spaced points entirely around the periphery thereof and below the upper level thereof and passing the withdrawn solid particles as a multiplicity of streams into the intermediate portion of a confined annular stripping zone surrounding said dense fluidized bed of solids and at a region above the locus of introduction of gaseous stripping fluid hereinafter referred to, causing each of said streams to take a substantial pressure drop during passage of the streams from the dense fluidized bed into said annular stripping zone thereby equalizing the flow of solids from the dense fluidized bed into said annular stripping zone, contacting solids in said annular stripping zone with upflowing gaseous stripping fluid introduced at a multiplicity of points into the lower portion of said annuar stripping zone, said multiplicity of points being arranged in spaced relation entirely around said annular stripping zone, discharging solids from the bottom of said annular stripping zone into a collecting zone at the bottom of said vessel and withdrawing stripped solids from said collecting zone and passing gaseous stripping fluid and stripped out material from the upper portion of said annular stripping zone directly into said dilute phase above the level of the dense fluidized bed of solids in said vessel for removal from the upper portion of said vessel.

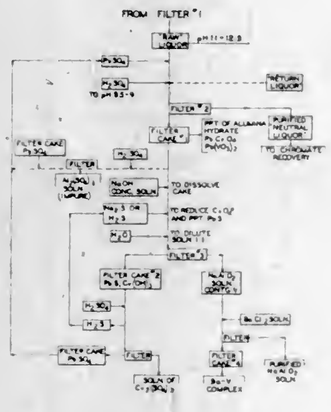
2,612,434
ABSORBENT FOR PURIFYING AIR
Paul O. Rockwell and John C. Goshorn, Baltimore, Md., assignors to the United States of America as represented by the Secretary of War
No Drawing. Application April 25, 1938, Serial No. 204,156
9 Claims. (Cl. 23—4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for removing hydrocyanic acid and cyanogen chloride from air to be breathed which consists in the passing of air through an activated charcoal impregnated with a water soluble salt of thiocyanic acid.

2,612,435
METHOD FOR RECOVERY OF VANADIUM-FREE CHROMATE AND ALUMINATE

Tom S. Perrin and Robert G. Banner, Painesville, Ohio, assignors to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

Application November 13, 1948, Serial No. 59,934
7 Claims. (Cl. 23—52)



1. The method of removing and recovering vanadium and aluminum values from an alkaline solution having a pH of at least 10 comprising the same as vanadates and aluminates and a preponderance of alkali metal chromates, which includes the steps of contacting such solution with a lead compound which provides a source of lead ions in said solution, to co-precipitate substantially all of the vanadate ions and a minor proportion of the chromate ions as their lead salts, adjusting the alkalinity of said solution to a pH within the range of 8–9 to convert substantially all of said aluminum values to alumina hydrate, and co-precipitate said alumina hydrate with said lead salts, and separately recovering the substantially vanadium and aluminum-free chromate solution and said co-precipitate.

2,612,436
METHOD OF PREPARING ALKALI METAL AMIDES

Johan Overhoff and Johannes Thomas Hackmann, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

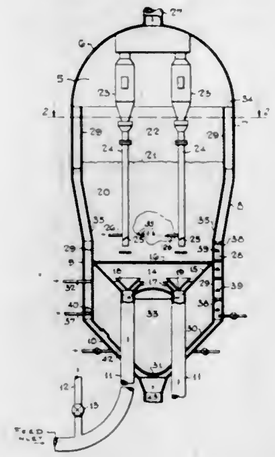
No Drawing. Application July 29, 1947, Serial No. 764,590. In the Netherlands October 21, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires October 21, 1960
2 Claims. (Cl. 23—190)

2. The process for the production of an alkali amide which comprises reacting ammonia at a temperature of from about 100° to about 200° C. with an alkali metal, said alkali metal being dispersed in an N,N-dialkylarylamine, and in the presence of (1) a catalyst consisting essentially of an oxide of an alkali metal in admixture with an ammonia-soluble hydrated salt of a metal selected from the group consisting of iron, cobalt and nickel, and (2) at least 0.5% by weight of the reaction mixture of a primary aryl amine.

2,612,437
CATALYST REACTION VESSEL

Arnold F. Kaulakis, Roselle, and Howard G. Codet, Mountainside, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application February 5, 1948, Serial No. 6,446
4 Claims. (Cl. 23—288)

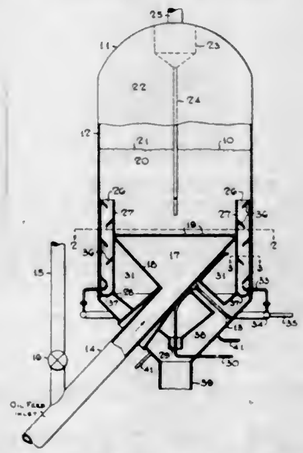


1. An apparatus of the character described including a vessel adapted to contain a fluidized bed of solid particles and for contacting gaseous fluid and finely divided solid particles and having a top outlet for gaseous fluid and a bottom outlet for solid particles, an inlet chamber in the bottom portion of said vessel for the supply of gaseous fluid and finely divided solids to said vessel, a horizontally arranged perforated member at the upper portion of said inlet chamber, said perforated member being concentric with said vessel and of smaller diameter, a vertically disposed sleeve extending above said perforated member and secured to the periphery thereof, said sleeve extending a substantial distance upwardly in said vessel above the maximum level of the dense fluidized bed of solid particles adapted to be maintained in said vessel and being spaced from the inner wall of said vessel to provide an annular space for the withdrawal of solids, a multiplicity of radial baffles of substantially the same height as said sleeve and arranged between the outer wall of said sleeve and the inner wall of said vessel for dividing said annular space into a multiplicity of elongated narrow parallel cells, said vertical sleeve being provided with a multiplicity of inlet ports arranged entirely around said vertical sleeve and above said horizontally arranged perforated member but below the minimum level of the dense fluidized bed of solids adapted to be maintained in said vessel for the discharge of solids directly from the dense fluidized bed adapted to be maintained in said vessel into each of said cells, each of said inlet ports being of such size to produce a substantial pressure drop through the ports to effect substantial uniform distribution of the solids to each of said cells, means for introducing a stripping agent into the lower portion of each of said cells below the locus of said inlet ports whereby solid particles passing down through said cells are stripped of volatile material by the upflowing stripping agent and the stripping agent and stripped-out material are conducted by each of said cells into the upper portion of said vessel above the maximum level of the fluidized bed of solid particles adapted to be maintained in said vessel, the bottom of said cells communicating with said bottom outlet in said vessel for removal of solid particles from said vessel.

2,612,438
FLUIDIZED SOLIDS CONTACTING APPARATUS

Eger V. Murphree, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application February 5, 1948, Serial No. 6,447
3 Claims. (Cl. 23—288)



1. An apparatus of the character described including a vessel, an inlet chamber in the bottom portion thereof for the supply of gasiform fluid and finely divided solids to said vessel, an outlet for gasiform fluid in the upper part of said vessel, an outlet for solids in the bottom portion of said vessel, a horizontally arranged perforated member at the upper portion of said inlet chamber, said perforated member being concentric with said vessel and of smaller diameter, a vertically disposed sleeve extending above said perforated member and secured to the periphery thereof, said sleeve being spaced from the inner wall of said vessel to provide an annular space for the withdrawal of solids, radial baffles arranged between the outer wall of said sleeve and the inner wall of said vessel for dividing said annular space into a plurality of long narrow stripping cells, means for introducing a stripping agent into the lower portion and substantially uniformly over the entire cross-section of each of said cells, an orifice plate horizontally arranged in the bottom portion of each of the said stripping cells below said means for introducing the stripping agent, said orifice plate being constructed to produce a substantial pressure drop across said orifice to control the flow of solids through the cells into the bottom outlet for solids.

2,612,439
DIESEL FUEL COMPOSITION

John G. McNab, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

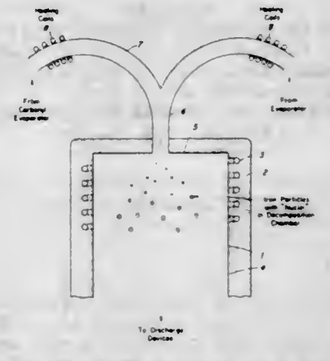
No Drawing. Application July 8, 1948, Serial No. 37,531
3 Claims. (Cl. 44—76)

1. A diesel fuel consisting essentially of a hydrocarbon diesel fuel base stock having greater than 0.5% sulfur and containing about 0.01% to 1% of a mixture of calcium petroleum sulfonate and an alkaline earth metal salt of an alkylated phenol sulfide in which the said alkaline earth metal salt is selected from the group consisting of calcium, barium, and magnesium, and in which the said alkyl group contains from 8 to 18 carbon atoms.

2,612,440
PRODUCTION OF METAL CARBONYL POWDERS OF SMALL SIZE

George O. Altmann, Elizabeth, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application May 3, 1950, Serial No. 159,722
6 Claims. (Cl. 75—0.5)

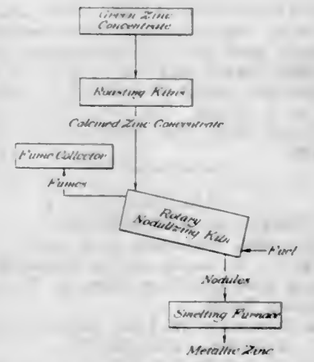


1. The process of producing carbonyl metals of a very small particle size and uniform size distribution which comprises thermally decomposing a metal carbonyl in the free space of a reactor, feeding into the reactor the vapors of a liquid boiling above the decomposition temperature of said metal carbonyl and causing the metal produced by such decomposition to deposit on liquid nuclei produced within said free space by the condensation of the vapors of said liquid.

2,612,441
METHOD OF REFINING ZINC ORE

Raymond F. Orr and George T. Junkin, Fort Smith, Ark., assignors to The Residue Company, Fort Smith, Ark., a corporation of Arkansas

Application November 10, 1948, Serial No. 59,396
2 Claims. (Cl. 75—7)



1. The process for the recovery of zinc from a sulphur-containing zinc ore, which comprises simultaneously tumbling and heating a zinc ore

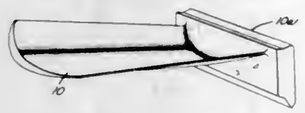
product containing from about 5% to 10% of sulphur at a sintering temperature of from 2000 to 2300° F. in the absence of solid carbonaceous material and in the presence of an amount of oxygen in excess of that stoichiometrically required to oxidize the sulphur present to sulphur dioxide, continuing the tumbling and heating until substantially all of the sulphur, cadmium, and most of the lead have been volatilized and recovering a sintered product containing zinc oxide and not over about 0.08% of lead and only a trace of cadmium, said product being in the form of nodules of substantially uniform porosity that are particularly amenable after being ground for reduction in a retort furnace to recover high quality metallic zinc therefrom.

2,612,442

COATED COMPOSITE REFRACTORY BODY

Claus G. Goetzel, Yonkers, N. Y., assignor to Sintercast Corporation of America, New York, N. Y., a corporation of New York

Application May 19, 1949, Serial No. 94,092
5 Claims. (Cl. 75—22)



1. The method of producing composite bodies adapted to withstand corrosion at a high temperature comprising compacting said composite bodies from a refractory metal carbide powder selected from a group consisting of titanium carbide, molybdenum carbide, tungsten carbide and zirconium carbide powder, cementing the said bodies with a metal selected from a group consisting of iron, nickel and cobalt, applying to the surface of said cemented bodies an intermediate layer of the metals used for the cementing step, covering said intermediate metal layer with a surface coating of a substance selected from a group composed of chromium, zirconium, aluminum, silicon and their halides and thermally merging said intermediate and said surface layers into a bond therebetween and with said cemented body.

5. A composite body which is corrosion resistant at a high temperature consisting of a refractory metal powder selected from the group consisting of titanium carbide, molybdenum, carbide, tungsten carbide and zirconium carbide powders and being cemented by a metal selected from a group consisting of iron, nickel and cobalt, said body being coated with an intermediate layer of the metals used for the cementing step and being surface coated with a substance selected from a group composed of chromium, zirconium, aluminum and silicon, the said body being integrally united with the intermediate and the surface layer.

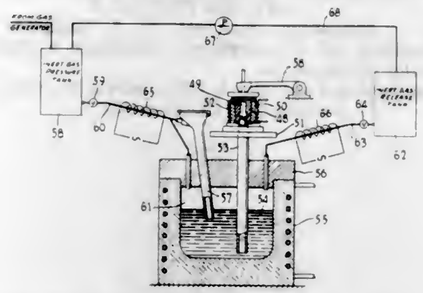
2,612,443

POWDER METALLURGY

Claus G. Goetzel, Yonkers, and John L. Ellis, New York, N. Y., assignors to Sintercast Corporation of America, New York, N. Y., a corporation of New York

Application December 26, 1947, Serial No. 793,990
1 Claim. (Cl. 75—22)

A method of producing uniform dense composite material shaped blades, buckets, valves for jet engines, rockets, gas turbines comprising, compacting a refractory metal carbide in a mold, controlling the compacting work to establish in the compacted body an intercommunicating system of pores, of which the pore volume amounts to at least 10 per cent of the total volume, sintering said compacted body in said mold into a skeleton body while maintaining the said porosity,



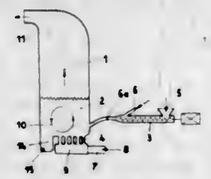
heating said mold-contained skeleton body and a molten metal infiltrant selected from the group consisting of nickel, cobalt, iron and alloys thereof with chromium, molybdenum and tungsten during the infiltration while forcing by fluid pressure said molten metal infiltrant into the pores of said skeleton body.

2,612,444

PRODUCTION OF METALS FROM THEIR ORES

Roman Rummel, Dusseldorf-Benrath, Germany

Application May 12, 1949, Serial No. 92,833
In Germany December 28, 1948
13 Claims. (Cl. 75—40)



1. In the reduction to metal of ores, the improvement comprising substantially continuously introducing a particled ore into a molten slag, substantially continuously contacting said ore in said slag with a reducing agent for said ore, substantially continuously introducing a combustion supporting gas into said slag, and collecting metal separating from said slag.

2,612,445

PROCESS OF MAKING HARDBOARD AND THE LIKE CONTAINING FURFURYL ALCOHOL RESINS

Oswald Spence, Hattiesburg, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware

No Drawing. Application July 30, 1949, Serial No. 107,835
4 Claims. (Cl. 92—21)

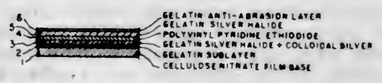
1. An improved method of producing hardened resin-fiber sheet material which comprises slurrying hydrolyzed lignocellulose fiber in water to form a suspension of fiber in water at a consistency of about 1 to 10%, adding to the fiber suspension from about 0.175% to about 50%, based on the dry fiber weight, of a liquid synthetic resin characterized by specific affinity for the hydrolyzed lignocellulose fiber whereby substantially all of the added resin is deposited uniformly throughout the suspended fibers, said resin comprising essentially a partially condensed water-insoluble furfuryl alcohol resin, removing the water of the suspension from the composite of fiber and resin, and heating and pressing the composite of fiber and resin at temperatures and pressures sufficient to secure bonding of the fiber into a hardened product.

2,612,446

PHOTOGRAPHIC ELEMENTS HAVING A LIGHT-SENSITIVE SILVER HALIDE LAYER AND A STRIPPING LAYER COMPOSED OF A POLYVINYL PYRIDINE QUATERNARY SALT AND PROCESS OF USING SUCH ELEMENTS

Jacob Quentin Umberger, Holmdel, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

Application September 15, 1949, Serial No. 115,943
21 Claims. (Cl. 95—2)



1. A photographic stripping film comprising a hydrophobic flexible support, a hydrophilic colloid silver halide emulsion layer on the support, a layer composed essentially of water-soluble quaternary salt of a vinylpyridine polymer on said emulsion layer and a light-sensitive colloid silver halide emulsion layer on said polymer layer.

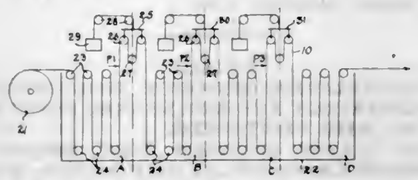
17. A process for decreasing the water-solubility of a stripping layer of a photographic element, said stripping layer supporting a hydrophilic colloid silver halide emulsion layer and consisting essentially of a water-soluble quaternary salt of a vinylpyridine polymer, which comprises treating said salt with an aqueous solution containing an anionic wetting agent wherein the hydrophobic group is an aliphatic hydrocarbon radical of 10 to 18 carbon atoms.

2,612,447

PHOTOGRAPHIC PROCESSING

Paul Raibourn, Southport, Conn.

Application January 13, 1947, Serial No. 721,780
3 Claims. (Cl. 95—2)



1. A method of indicating the penetration of a processing solution into an emulsion layer of a multiple emulsion film, comprising the steps of exposing said film to form a latent scene image in each layer and to form a variable density signal image in at least one layer, the density of said signal image being substantially equal to the maximum density of said scene image, processing said film to form silver images of all of said exposures, bleaching said film, processing said film to reduce the density of all of the images in the layer containing said signal image, continuously moving said film during said last processing step, converting said signal image at successive time intervals of the reducing process to sensible signals indicative of the extent of reduction of the scene image at said intervals, and varying the relative rate of movement of said film in zones between successive points represented by said successive time intervals whereby complete reduction is attained at the time the film reaches the last conversion point.

2,612,448

PHOTOGRAPHIC ELEMENTS CONTAINING AZO DYES AND PROCESS USING THEM

Béla Gaspar, Beverly Hills, and Paul Daniel Dreyfuss, Van Nuys, Calif., assignors, by mesne assignments, to said Gaspar

No Drawing. Application April 2, 1948, Serial No. 18,714
15 Claims. (Cl. 95—6)

1. A photographic material having at least one light sensitive silver halide layer, comprising a colloid layer dyed with a dye having the general formula

A—N=N—B—N=N—A'

wherein B is a member selected from the group consisting of monocyclic and polycyclic aromatic residues in which the azo bonds shown stand in the 1, 4 position of said aromatic residue, and wherein A and A' are residues of azo coupling components, which azo coupling components carry a substituent selected from the group consisting of hydroxy, amino, monoalkylamino and arylamino radicals, which substituent is in a position selected from the group consisting of positions 2 and 4 with respect to the azo group.

15. A process for producing a dye image in a photographic layer containing a metallic silver image and dyed with a dye of the general formula

A—N=N—B—N=N—A'

wherein B is a member selected from the group consisting of monocyclic and polycyclic aromatic residues in which the azo bonds shown stand in the 1, 4 position of said aromatic residue, and wherein A and A' are residues of azo coupling components, which azo coupling components carry a substituent selected from the group consisting of hydroxy, amino, monoalkylamino and arylamino radicals, which substituent is in a position selected from the group consisting of positions 2 and 4 with respect to the azo group which comprises locally destroying said dye by reduction in the presence of said metallic silver image.

2,612,449

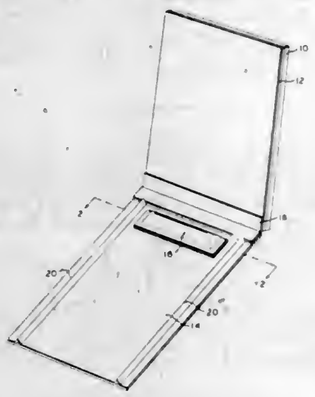
IMAGE-RECEIVING PHOTOGRAPHIC ELEMENT COMBINED WITH A PROCESSING CONTAINER

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application February 2, 1950, Serial No. 141,905
17 Claims. (Cl. 95—8)

10. A composite photographic unit comprising a first layer and a second layer, said layers being adapted to be juxtaposed so that a surface of said first layer and a surface of said second layer are in superposition, one of said surfaces being photosensitive, a container associated with said surface of said first layer, said container carrying a liquid for processing said photosensitive surface and being capable of releasing said liquid upon application of mechanical stress thereto, that portion of said container farthest from said

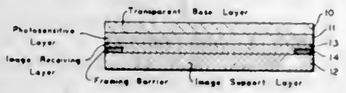
surface of said first layer being substantially a predetermined distance from said surface of said first layer, and means normally preventing application of mechanical stress to said container, said means comprising at least an element of predetermined compressibility associated with one of said layers, said element providing a portion that is adapted to abut against the other of said layers, the last-named portion being spaced from said one layer by a distance at least substantially as great as said predetermined distance.



2,612,450
SELF-FRAMING PHOTOGRAPHIC FILM UNIT CONTAINING A LIQUID, AND PROCESS FOR PRODUCING FRAMED POSITIVE IMAGES

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application January 17, 1946, Serial No. 641,809
16 Claims. (Cl. 95—8)



1. A photographic product comprising a first liquid-confining layer, including a photosensitive silver halide portion adjacent a surface thereof and capable of having a latent image formed therein upon photoexposure, a second liquid-confining layer which has an image-carrying surface for a transfer image and which is adapted to be positioned in superposed relation to said first liquid-confining layer with said image-carrying surface thereof facing said photosensitive portion of said first liquid-confining layer, a rupturable container holding a liquid, and a framing mask secured to that surface of one of said liquid-confining layers which is adapted to face the other liquid-confining layer when both said liquid-confining layers are superposed with respect to each other, said framing mask bounding an area, on that liquid-confining layer to which said mask is secured, that is smaller than the area of said photosensitive portion, said liquid-confining layers and container being attached together to permit said liquid-confining layers to be superposed with said mask therebetween and with said container positioned for releasing said liquid between said liquid-confining layers for spreading between and in contact with said framing mask and both of said layers, said framing mask being arranged to inhibit permeation by said liquid of border portions of that liquid-confining layer to which said mask is secured, said product having positioned therein photographic processing material, including a silver halide developer, transportable by said liquid to said photosensitive portion, said material being capable of developing a latent image in said photosensitive portion and, as a result of such development, causing differential disposition throughout the photosensitive layer of a substance for providing the image-carrying surface of said second liquid-confining layer with said transfer image, and said liquid upon permeation of said photosensitive portion rendering said material effective to develop said latent image and to form said transfer image on said image-carrying surface.

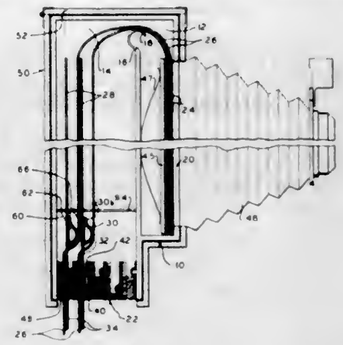
14. A photographic process of treating an exposed photosensitive layer having a photosensitive silver halide portion containing a latent negative image to obtain therefrom a positive image of the subject matter of said latent negative image, which process comprises bringing into superposed relation said photosensitive layer and an image-receiving layer with the emulsion side of said photosensitive layer facing said image-receiving layer and permeating a liquid, comprising a silver halide developer and a silver halide solvent, capable of developing exposed silver halide and of forming soluble silver complexes with unexposed silver halide, into one of said layers over a predetermined area of that surface thereof which faces the other of said layers while restricting penetration of said liquid into said other layer to a second area on that surface thereof which faces said one layer and which lies within the borders of said other layer and is smaller in size than said photosensitive portion by holding against the second-mentioned surface a substantially liquid-impervious framing mask provided with an aperture therein having an area substantially equal to said second area and located with respect to said second-mentioned surface so as to define said second area, developing said negative image and forming silver complexes from unexposed silver halide, transferring silver complexes from that part of said photosensitive layer which is in superposed relation to the aperture of said mask through said aperture and onto said image-receiving layer over an area thereof that is in superposed and registered relation to said mask aperture, converting transferred complexes to silver to provide said positive image, and separating said photosensitive layer and said framing mask from said image-receiving layer.

2,612,451
PHOTOGRAPHIC PRODUCT, INCLUDING A CONTAINER AND MEANS FOR RUPTURING SAID CONTAINER

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application November 29, 1946, Serial No. 712,887
20 Claims. (Cl. 95—8)

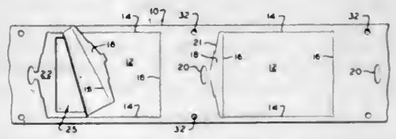
11. A composite photographic product comprising at least one film unit, said film unit including a first layer, a second layer and a container, said second layer being adapted to be superposed on said first layer, said container being positioned between said first and second layers when said first and second layers are superposed, said first layer comprising a photosensitive material, said container defining a cavity having therein a liquid composition for processing said photosensitive material, said container having a predetermined portion which, when ruptured, is adapted to permit release of said liquid composition from said cavity for spreading between said first layer and said second layer, first means attached to said container for rupturing said predetermined portion upon relative movement between said first means and said predetermined portion, said container being secured to one of said layers by a bond having a strength sufficient to prevent movement between said container and said one layer when relative movement between said first means and said predetermined portion occurs, a magazine for housing said film unit, and second means secured to said magazine, said film unit being movable with respect to said magazine, said second means being adapted to engage said first means upon movement of said film unit with respect to said magazine, whereby relative movement between said first means and said predetermined portion is caused and rupturing of said predetermined portion occurs.



2,612,452
PHOTOGRAPHIC PRODUCT

William J. McCune, Jr., South Lincoln, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application November 2, 1948, Serial No. 57,847
3 Claims. (Cl. 95—88)

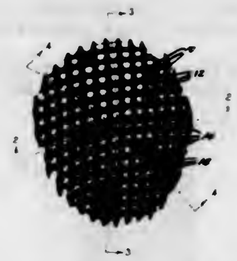


1. As a new product for use in a photographic transfer process as image-receptive material for receiving a transfer image, a flexible, water-permeable, image-carrying sheet material comprising a plurality of removable sections of rectangular shape providing individual image areas which are each adapted to have a transfer image formed thereon and which are sequentially spaced lengthwise of said sheet, each said image area lying within the margins of said sheet and being entirely surrounded by portions of said sheet located between said image area and the marginal edges of the sheet, said sheet being provided with perforations which extend therethrough and which define the longitudinal and transverse edges of each said removable rectangularly shaped area whereby each said area is separable from the remainder of the sheet, the perforations around each said image area being in the form of curved lines resembling a deckle but spaced apart with respect to each other to provide unperforated portions along the longitudinal and transverse edges of each said image area whereby said unperforated portions removably attach each image area to said sheet, said unperforated portions on the longitudinal edges of each said image area being arranged along the curved lines defined by said perforations and spaced outwardly from those peaks of the curved lines nearest the image area which they define, said unperforated portions on each said transverse edge of each image area being alternately arranged at the points of maximum variations of the curved lines, and said sheet being rollable lengthwise of itself into a roll with said perforations at the transverse edges of each image area providing hinge lines which facilitate the formation of said roll.

2,612,453
POTATO CHIP CONSTRUCTION

Bernhardt Stahmer, Omaha, Nebr.

Application May 23, 1949, Serial No. 94,911
2 Claims. (Cl. 99—100)



1. A potato chip having a plurality of alternate ridges and furrows extending across one face thereof in substantially parallel arcuate paths and having a plurality of alternate ridges and furrows extending across the other face thereof in substantially parallel arcuate paths, said ridges each having divergingly disposed side walls terminating in a widened base, the furrows on opposite faces of said chip laterally intersecting each other for providing the chip with spaced perforations, said spaced perforations appearing in the bottom of said intersecting furrows between said bases and defining arcuate intersecting rows across the faces of said chip, thereby avoiding straight rows of spaced perforations which would tend to structurally weaken the chip.

2,612,454
METHOD OF MODIFYING BUTTER

Carl Hugo Bettman, Cedarhurst, N. Y.

No Drawing. Application September 14, 1950, Serial No. 184,898
2 Claims. (Cl. 99—121)

1. The method of processing butter, which comprises melting a batch of natural butter by heating the same, then increasing the temperature thereof, while adding a relatively small amount of salt thereto, to bring the batch approximately to the boiling point of the butter, discontinuing then the heating of the batch, cooling the same to cause it to settle out into a stratified mass of a cheese-like substance, a modified mass of butter and a milk-like substance, and separating the modified butter portion from the residue.

2,612,455

SOYBEAN GLUE

Alexander J. Golick, Seattle, Wash., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 23, 1949, Serial No. 106,500
4 Claims. (Cl. 106—154)

1. In a process of making an aqueous alkaline soybean glue the improvement which consists in mixing a soybean glue base with water to a stirrable consistency in the absence of acidic and strong alkaline reagents and simultaneously stirring the mixture and heat treating it at the range between about 120° F. and 210° F., for between about 3 and 30 minutes, then cooling the mixture to a temperature substantially not in excess of room temperature and adding to the cooled mixture alkaline reagents to form a glue of spreadable consistency.

2,612,456

PROCESS FOR APPLYING AN ORNAMENTAL AND PROTECTIVE CRACKLE COATING TO A BASE

Ned A. Thacker and Doris S. Threlkeld, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application July 29, 1948, Serial No. 41,195
10 Claims. (Cl. 117—41)



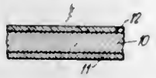
1. A process for making an ornamental and protective crackle coating on a surface of an object, including the steps of applying to the surface a film of an organosol composed of particles of vinyl chloride-vinyl acetate copolymer material dispersed in a volatile organic liquid medium readily evaporable below the fusion temperature of the particles and having a slight swelling effect on the surface of the particles; drying the organosol film by heat to rapidly drive off substantially all of the volatile liquid medium but at a temperature below the fusion temperature of the particles, whereby the film dries and cracks to form islands, each composed of a group of these particles; and the step of thereafter heating the cracked film to a temperature above the fusion point of the particles to fuse the particles of each island so they form a continuous film which adheres to the surface.

2,612,457

METHOD OF ENAMELING METALWARE

Henry M. Davis, State College, Pa., assignor to United States Steel Company, a corporation of New Jersey

Application September 1, 1950, Serial No. 182,731
4 Claims. (Cl. 117—68)



1. In a method of enameling sheet-steel the steps including applying to one side of the metal a slip composed largely of boro-silicate frit with a small amount of clay, applying to the other side a similar slip containing in addition from 25 to 50% by weight of frit of a metal oxide which increases the fusion temperature of the slip, drying the applied slips, and firing the coated metal at a temperature between the fusion point of the first-mentioned slip and that of the second-mentioned slip, thereby vitrifying the slip applied to said one side yet leaving the slip applied to the other side incompletely fused and permeable by gases occluded in the metal.

2,612,458

METHOD AND COMPOSITION FOR RENDERING WINDOW SURFACES WATER REPELLENT AND PRODUCT RESULTING THEREFROM

Donald F. Stedman, Ottawa, Ontario, Canada, assignor to The Honorary Advisory Council for Scientific and Industrial Research, Ottawa, Ontario, Canada, a corporation of the Dominion of Canada

No Drawing. Application June 18, 1947, Serial No. 755,490. In Canada March 7, 1945
13 Claims. (Cl. 117—92)

5. A composition for rendering window surfaces water and rain repellent comprising essentially substituted polysilicane, consisting only of carbon, hydrogen and silicon and having not less than one Si-Si linkage and at least one of a group consisting of alkyl and aryl radicals attached to at least one Si atom in said linkage, in admixture in a volatile hydrocarbon solvent with a finely divided, inorganic, non-siliceous adhesive-promoting agent which with rubbing changes said poly-silicane from a form which is soluble in hydrocarbon solvent to one which is insoluble therein and selected from a group consisting of carbon black, rouge, barium sulphate, lithipone and the precipitated fluorides of calcium, barium, strontium and lithium.

11. A window surface having thereon a composite film consisting essentially of adherent substituted polysilicane consisting only of carbon, hydrogen and silicon and having not less than one Si-Si linkage and at least one of a group consisting of alkyl and aryl radicals attached to at least one Si atom in said linkage, and on the adhering polysilicane a non-polar wax composition consisting essentially of 19 to 38% by weight of purified amorphous mineral wax having a melting point of substantially 93° C., 49 to 70% by weight of a paraffin wax having a melting point of at least 64° C., 3 to 10% of polyisobutylene and 3 to 10% of polyethylene.

2,612,459

SOLDERING FLUX

Hobart H. Willard, Ann Arbor, Mich., and William S. Gale, Syracuse, N. Y., assignors to McCord Corporation, Detroit, Mich., a corporation of Maine

No Drawing. Application June 20, 1950, Serial No. 169,291
15 Claims. (Cl. 148—23)

1. A composition of matter suitable for use as a soldering flux comprising essentially, as a first component, at least one salt of a compound of the class consisting of semicarbazide and $R_1R_2N—NR_3R_4$ in which R_1, R_2, R_3 and R_4 are substituents selected from the group consisting of the hydrogen atom and alkyl, aralkyl and aryl hydrocarbon radicals and, as a second component, at least one compound selected from the group consisting of cyclohexylamine salts, hydroxylamine salts, morpholine salts, ethylenediamine salts, piperidine salts, salts of $R_5R_6R_7N$ in which R_5, R_6 and R_7 are substituents selected from the group consisting of the hydrogen atom and alkyl, aralkyl and aryl hydrocarbon radicals, and $R_8R_9R_{10}R_{11}NX$ in which R_8, R_9, R_{10} and R_{11} are substituents selected from the group consisting of the methyl and ethyl radicals and in which X is a halogen atom, the weight of said second component being within the range from 2 to 80%, based upon the weight of said two components.

2,612,460

METHOD OF SOLDERING

Hobart H. Willard, Ann Arbor, Mich., and William S. Gale, Syracuse, N. Y., assignors to McCord Corporation, Detroit, Mich., a corporation of Maine

No Drawing. Application June 20, 1950, Serial No. 169,292
6 Claims. (Cl. 148—26)

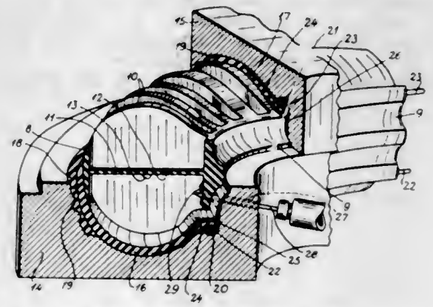
1. In soft soldering, the step of applying to the metals to be joined a flux comprising a carrier containing at least one salt selected from the group consisting of hydrazine monohydrobromide and hydrazine monohydrochloride.

2,612,461

METHOD FOR THE MANUFACTURE OF ELASTIC RUBBER TIRES

Karl Simon Hallgren, Copenhagen, Denmark

Application March 21, 1949, Serial No. 82,599
17 Claims. (Cl. 154—14)



1. Method for the manufacture of resilient rubber tires having a plurality of transverse projections dividing up the tire in chambers, said method comprising the steps of casting a body consisting of projections connected by at least one rim to form a unit, and vulcanizing a rubber casing to the said unit in a mould while applying an internal pressure in the chambers, said pressure substantially corresponding in magnitude to the outer pressure caused by the application of the mould during vulcanization, whereby any distortion or deformation of the transverse walls as well as penetration of the rubber of the casing into the chambers during vulcanization to differences in air pressure is prevented.

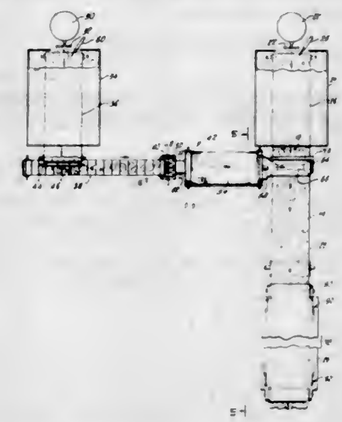
2,612,462

LAMINATED INSULATING BLOCK AND METHOD OF MAKING THE SAME

Joseph H. Zettel, Martinsville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application November 20, 1947, Serial No. 787,082
11 Claims. (Cl. 154—28)

1. A method comprising, forming a fibrous, felted layer containing a binder, forming a layer of fibrous binder containing aggregates on said felted layer, compressing the composite body thus



formed, and setting the binder while the body is maintained under compression.

2,612,463

BOOKBINDING ADHESIVES AND A METHOD OF APPLYING SAME

Rodney G. Brown, North Brunswick Township, Middlesex County, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 18, 1946, Serial No. 697,823
16 Claims. (Cl. 154—116)

1. A solvent-free, hot melt adhesive composition particularly adapted for binding books, comprising an ethanol-soluble synthetic linear polyamide having an intrinsic viscosity of at least 0.4 and containing amide groups separated by an average of at least two carbon atoms as an integral part of the main polymer chain and a compatible liquefying softener therefor, the ratio of polyamide to softener being between 45:55 and 65:35.

9. A process for binding books without stitching or stapling, which comprises clamping together under pressure, with a small portion of the binding edges exposed, the pages which are to form a book, coating the exposed binding edges with a warm primer composition comprising a synthetic linear polyamide having an intrinsic viscosity of at least 0.4 and containing amide groups separated by an average of at least two carbon atoms as an integral part of the main polymer chain and being soluble in 80% ethanol, a compatible liquefying softener, and a volatile solvent therefor, removing substantially all unabsorbed coating, evaporating the volatile solvent, and applying at about 320° F. a solvent-free, hot melt adhesive to the primer coated edges of the paper, said adhesive comprising a synthetic linear polyamide having the same characteristics as that above and a compatible liquefying softener, the ratio of polyamide to softener in both the primer composition and the hot melt adhesive being between 45:55 and 65:35.

15. An article of manufacture, having a plurality of pages bound together by a solvent-free, hot melt adhesive composition comprising a synthetic linear polyamide having an intrinsic viscosity of at least 0.4 and containing amide groups separated by an average of at least two carbon atoms as an integral part of the main polymer

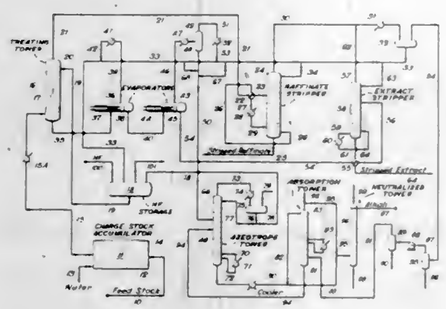
chain and being soluble in 80% ethanol and a compatible liquefying softener for the said polyamide, the ratio of polyamide to softener being between 45:55 and 65:35.

2,612,464

PROCESS AND SYSTEM FOR TREATING HYDROCARBON OIL WITH LIQUID HYDROGEN FLUORIDE

John J. Giachetto, Calumet City, and Donnell H. Wagner, Chicago, Ill., and Joseph E. Wolf, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application December 22, 1949, Serial No. 134,518
9 Claims. (Cl. 196—13)



1. In a process for treating a hydrocarbon charging stock boiling substantially above the boiling range of gasoline, containing sulfur compounds and water, with liquid HF to produce a solution of H_2O, H_2S and other sulfur compounds in liquid HF and an HF-immiscible purified charging stock, respectively, the steps of subjecting said solution to evaporation to produce a first vapor stream consisting essentially of all the free H_2S in said solution, HF and H_2O and a first liquid residue, separately subjecting said first liquid residue to evaporation to produce a second liquid residue and a second vapor stream consisting essentially of HF and H_2O containing substantially no H_2S, subjecting said second vapor stream to fractional condensation to produce a relatively minor proportion of a condensate consisting essentially of HF and H_2O containing HF in substantial excess of the concentration of HF in an HF-H_2O azeotrope and a third vapor stream consisting essentially of substantially anhydrous HF, subjecting said condensate to fractional distillation to produce a fourth vapor stream of substantially anhydrous HF, condensing said first, third and fourth vapor streams and recycling the resultant condensates to the treating process.

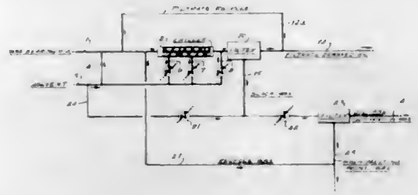
2,612,465

SEPARATION OF OIL AND WAX BY CONTINUOUS FILTRATION

Wynkoop Kiersted, Jr., Scarsdale, and Howard H. Gross, Pleasantville, N. Y., assignors to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

Application June 29, 1948, Serial No. 35,923
6 Claims. (Cl. 196—19)

1. In the separation of oil and wax from mixtures thereof, said wax comprising both normal and isoparaffinic constituents, the method comprising continuously passing a stream of said oil-wax mixture with solvent liquid, at reduced temperature in the range of about 0° F. and below to a primary zone of filtration, effecting said filtration of said mixture of reduced temperature thereby forming a filtrate of dewaxed oil dissolved in solvent liquid and a wax cake comprising said wax, discharging said filtrate, removing said wax cake, subjecting said removed wax to filtration in the presence of solvent liquid at a temperature



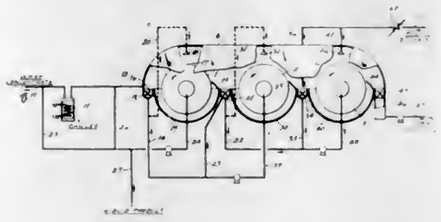
substantially above said reduced temperature and below normal room temperature in a secondary filtration, forming a secondary filtrate containing soft isoparaffinic wax and a wax cake consisting essentially of normal paraffin wax constituents, and recycling a portion of said normal paraffinic wax to the wax mixture passing to said primary filtration.

2,612,466

CONTINUOUS VACUUM FILTRATION

Wynkoop Kiersted, Jr., Scarsdale, and Howard H. Gross, Pleasantville, N. Y., assignors to Texaco Development Corporation, New York, N. Y., a corporation of Delaware

Application April 21, 1948, Serial No. 22,416
5 Claims. (Cl. 196—20)



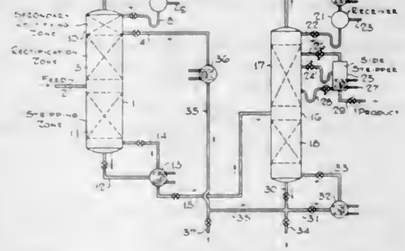
1. A method of separating high melting point wax from a wax concentrate obtained in dewaxing wax-bearing lubricating oil stock, said concentrate comprising a mixture of high melting point wax, low melting point wax and a small amount of oil, by continuous filtration in the presence of solvent liquid in a series of at least three rotary drum vacuum filter stages at a temperature in the range of 65° F. and lower, each filter drum being about four to five feet in diameter, wherein filter cake from a preceding stage is charged to a succeeding stage and filtrate from a succeeding stage obtained during cake deposition in that stage is commingled with charge passing to a preceding stage, which comprises rotating each filter drum at a peripheral speed substantially in excess of 32 feet per minute but at a rotational speed not greater than about 15 R. P. M., filtering in the initial stage of said series a commingled mixture of fresh concentrate and filtrate from an intermediate stage in the series to form an initial filtrate containing solvent and oil and an initial filter cake containing mainly wax and solvent, discharging initial filtrate, commingling with said initial filter cake, prior to charging to the next stage in series, filtrate obtained from a stage succeeding said next stage, filtering the resulting commingled mixture containing initial filter cake in said next stage thereby forming intermediate filtrate containing solvent and low melting point wax and an intermediate filter cake containing an increased concentration of high melting point wax, said intermediate filtrate being recycled at least in part to the stage immediately preceding said intermediate stage, commingling intermediate filter cake with fresh solvent liquid, filtering this last mentioned commingled mixture in the aforesaid succeeding stage thereby forming a final filter cake containing product wax and a final filtrate containing solvent plus a small amount of low melting point wax, discharging the final filter cake, recycling final filtrate at least in part to an intermediate stage for mixing with intermediate filter feed, and maintaining each filter stage at substantially the same temperature.

2,612,467

EXTRACTIVE DISTILLATION OF ETHANOL CONTAMINATED BY n-PROPANOL

Charles E. Morrell, Westfield, and Carl S. Carlson, Roselle, N. J., and Nat C. Robertson, Corpus Christi, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application January 14, 1949, Serial No. 70,962
4 Claims. (Cl. 202—39.5)



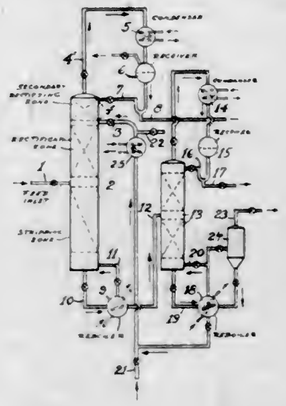
3. The method of separating purified ethanol from a mixture containing as contaminants n-propanol with neutral non-alcohol organic compounds boiling in the range of 20° C. to 150° C., which comprises continuously introducing a feed stream of the mixture into a mid-section of a fractional distillation zone, supplying adequate water at a top plate of said zone to maintain a water concentration between 95 and 99 mole per cent with a diminishing content of n-propanol in internal reflux descending from the top plate, removing aqueous vapors of said contaminants that pass above said top plate of the fractional distillation zone, condensing a portion of said aqueous vapors into an aqueous condensate and refluxing this aqueous condensate back to the top plate of said fractional distillation zone to form part of the 95 to 99 mole per cent water content of liquids at the top of the fractional distillation zone, stripping out said contaminants from the residual internal reflux passing down through a stripping section of the fractional distillation zone below said mid-section, and withdrawing from a bottom part of the fractional distillation zone the ethanol freed of said contaminants.

2,612,468

EXTRACTIVE DISTILLATION WITH SALT SOLUTIONS

Charles E. Morrell, Westfield, N. J., and Edwin R. Gilliland, Arlington, Mass., assignors to Standard Oil Development Company, a corporation of Delaware

Application November 4, 1947, Serial No. 783,989
14 Claims. (Cl. 202—39.5)



1. The method of separating water-miscible aliphatic alcohols having 2 to 6 carbon atoms per molecule and which form close-boiling aqueous azeotropes difficult to separate by ordinary fractional distillation in having boiling points which differ by less than 5° C., one of said alcohols having a higher molecular weight than the other, which comprises continuously introducing a feed mixture of said alcohols to a fractional distillation zone wherein vapors of said alcohols with water vapor ascend countercurrently to liquid reflux of the alcohols dissolved in a sufficiently higher proportion of an aqueous salt solution to effect vaporization of a larger part of the higher molecular weight alcohol than of the other alcohol in said reflux, continuously introducing an aqueous salt solution at an upper part of the fractional distillation zone to maintain at least 60 mole per cent water in said liquid reflux and to maintain 1 to 10 mole per cent salt in the water content of the liquid reflux, continuously removing vapor of the higher molecular weight alcohol with water vapor overhead from the fractional distillation zone, and removing a dilute aqueous salt solution of the other alcohol as bottoms from the fraction distillation zone.

2,612,469

RAPID FINE-GRAINED COPPER ELECTRODEPOSITION

Frederick F. Reisinger, Willoughby, Ohio, assignor to The Wire Coating and Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

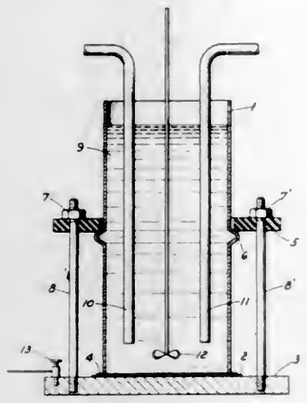
No Drawing. Application September 28, 1948, Serial No. 51,639
7 Claims. (Cl. 204—52)

7. An electrodeposition bath including copper cyanide, sodium hydroxide, and the reaction product of a sulphide of the group consisting of hydrogen sulphide and sodium sulphide on a diazotized primary arylamine of the group consisting of anthranilic acid, aniline, toluidines xylidines, and benzylamine, said reaction product as a precipitate being dissolved in water containing triethanolamine.

2,612,470
SELECTIVE ELECTRODEPOSITION OF SILVER

John C. Griess, Jr., Oak Ridge, Tenn., and Lockhart B. Rogers, Cambridge, Mass., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application October 26, 1949, Serial No. 123,744
13 Claims. (Cl. 204—109)



1. A method for the separation and selective recovery of dissolved silver present in trace concentrations at least as great as 10^{-8} molar from an aqueous palladium solution containing the same and having a macroscopic palladium concentration within the approximate range of 10^{-3} to 1 molar, which comprises incorporating into said solution an agent which forms water-soluble complexes with both silver and palladium chosen from the group of such agents consisting of ammonium hydroxide, and the cyanides, thiocyanates, and thiosulfates of sodium and of potassium, in an amount in excess over the stoichiometric amount required for soluble complex formation with all of the silver and palladium present, to thereby solubly complex the silver and palladium content of the solution, and thereupon, while maintaining the pH alkaline, electrolyzing the resulting solution to effect metal electrodeposition upon a platinum cathode while restricting the cathode potentials impressed therefor to those at least as positive as that demarcating the cathodic palladium deposition potential of the resulting system, thereby effecting selective electrodeposition of silver from the solution.

2,612,471
OIL-BASE DRILLING FLUIDS

Paul W. Fischer, Whittier, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application February 19, 1951, Serial No. 211,797
10 Claims. (Cl. 252—8.5)

1. A drilling fluid composition prepared by dispersing in mineral oil between about 1 and about 10 per cent by weight of a saponified rosin product obtained by saponifying with an aqueous alkali-metal alkali rosin which has been heat-treated at a temperature between about 250° C. and about 350° C. for a period of time sufficient to raise its specific rotation to a value above about +5°, said saponified rosin product containing between about 1 and about 15 per cent by weight of free rosin acids; between about 0.1 and about 5 per cent by weight of a hydratable clay; an alkaline-earth metal base in an amount corresponding approximately to that chemically equivalent to the quantity of said saponified rosin product present; between about 0.2 and about 10 per cent by weight of water; and between about 0.05 and about 2 per cent by weight of a hydroxypolyoxyethylene ether of a long chain fatty acid partial ester of sorbitan.

2,612,472
LUBRICATING GREASE COMPOSITIONS

Arnold J. Morway, Rahway, and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 28, 1949, Serial No. 96,136
14 Claims. (Cl. 252—33.6)

1. A lubricating grease composition comprising a major proportion of lubricating oil thickened to a grease consistency with a combination of a metal soap of fatty acids having between 12 and 24 carbon atoms, a metal salt of an organic acid having a molecular weight below about 160, and a metal soap of a branched chain aliphatic carboxylic acid having between about 10 and about 20 carbon atoms, of which at least 2 carbon atoms are tertiary and having at least one thioether linkage in the chain.

2,612,473
LUBRICATING GREASE COMPOSITIONS

Arnold J. Morway, Rahway, and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 4, 1951, Serial No. 240,444
14 Claims. (Cl. 252—39)

1. A lubricating grease composition comprising a major proportion of lubricating oil thickened to a grease consistency with a combination of a metal soap of fatty acids having between 12 and 24 carbon atoms, a metal salt of an organic acid having a molecular weight below about 160, and a metal soap of a branched chain aliphatic carboxylic acid having between about 10 and about 20 carbon atoms, of which at least 2 carbon atoms are tertiary and having at least one ether linkage in the chain.

2,612,474
RESIN BASE DISPERSION PRODUCTS AND SYNTHETIC GREASES

John D. Morgan, South Orange, and Russell E. Lowe, East Orange, N. J., assignors, by mesne assignments, to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application May 4, 1948, Serial No. 25,096
15 Claims. (Cl. 252—49.8)

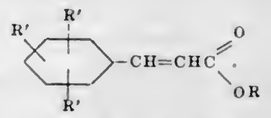
1. A new composition of matter comprising a dispersion of from about 2 to about 20 per cent by weight of a thermosetting phenol formaldehyde resin in from about 98 to about 80 per cent by weight of a liquid chosen from the group consisting of tri-o-cresyl phosphate, tri octyl phosphate and tri butyl phosphate, the resin having been substantially fully thermoset while dispersed in the said liquid.

2,612,475
LUBRICATING OIL ADDITIVE

Jeffrey H. Bartlett, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 28, 1949, Serial No. 124,255
6 Claims. (Cl. 252—57)

1. A lubricating oil composition which comprises a major proportion of a mineral lubricating oil base stock having combined therein a minor proportion sufficient to reduce the pour point thereof of a homopolymeric material formed by subjecting a compound having the general formula:

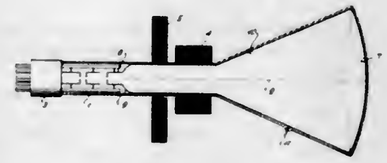


wherein R represents an alkyl group containing from 8 to 22 carbon atoms and R′ is hydrogen, to a temperature of about 25° to about 150° C. for a period of time of from about 2 to about 100 hours in the absence of air and in the presence of a peroxide type catalyst.

2,612,476
LUMINESCENT SCREEN FOR IMAGE REPRODUCING TUBES

Sidney A. Standing, Short Hills, N. J., assignor to Tung-Sol Lamp Works, Inc., Newark, N. J., a corporation of Delaware

Application January 25, 1951, Serial No. 207,677
1 Claim. (Cl. 252—301.6)



A luminescent screen for electron beam tubes comprising about 85 per cent zinc sulphide and zinc cadmium sulphide and about 15 per cent titanium activated calcium magnesium silicate.

2,612,477
EMULSIFIER COMPOSITIONS

Reginald G. Mitchell, Brighton, Harold C. Tait, Teddington, William C. Webber, New Malden, Robert G. Aickin, Teddington, Philip A. Winsor, Great Sutton, and Albert V. Billinghame, Eltham, England, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 27, 1946, Serial No. 657,630. In Great Britain March 29, 1945
14 Claims. (Cl. 252—308)

1. An emulsifier composition consisting essentially of a hydrophilic water-soluble polar inorganic salt of an organic acid containing a $—SO_3H$ group and having an alkyl chain of 8 to 20 carbon atoms together with an amine alicyclic compound free from alcoholic hydroxy groups, water and an organic liquid incompletely miscible therewith in the proportions of about 5% to about 100% of said amine compound, based upon the weight of said inorganic salt, and about 2% to about 95% of water and about 1.5% to about 90% of said incompletely miscible organic liquid, based upon the total weight of the mixture.

2,612,478
METHOD AND COMPOSITION FOR INHIBITING FOAM IN AQUEOUS SYSTEMS

Lewis O. Gunderson, Park Ridge, Ill., assignor to Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application June 3, 1948, Serial No. 30,981
7 Claims. (Cl. 252—321)

5. The method of inhibiting the tendency of an aqueous system to form on boiling, which comprises dispersing into said system a polyethylene polyamine having at least 2 acyl groups, each having at least 12 carbon atoms, and a stable, hydrophilic surface-active organic compound, said surface-active organic compound having sufficient wetting ability to decrease the surface tension of water by at least 25 dynes per centimeter when added to water in an amount sufficient to give a 1% solution by weight, the amount of said polyamine introduced being sufficient to inhibit the tendency of said system to foam on boiling, and the amount of said surface-active agent being from about $\frac{1}{10}$ to about 5 times by weight of the amount of said polyamine present.

2,612,479
RECLAIMING MIXTURES OF VULCANIZED NATURAL RUBBER AND SYNTHETIC RUBBER SCRAPS

Walter G. Kirby, Naugatuck, and Leo E. Steinle, Beacon Falls, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 23, 1950, Serial No. 181,104
8 Claims. (Cl. 260—2.3)

1. A process for reclaiming mixtures of vulcanized natural rubber and vulcanized butadiene-styrene copolymer synthetic rubber scraps which comprises heating the scraps in a non-alkaline medium for a time sufficient to soften the natural rubber portion to an excessively soft condition where the Mooney viscosity measured at 180° F. is between about 20 and about 40, and to soften the synthetic rubber portion to a satisfactory soft condition where the Mooney viscosity measured at 180° F. is between about 50 and about 140, and heating said softened mixture with materials selected from the group consisting of sodium hydroxide, potassium hydroxide, calcium hydroxide, ammonium hydroxide, sodium carbonate, potassium carbonate, trisodium phosphate, tripotassium phosphate, sodium sulphite, and potassium sulphite, whereupon the natural rubber portion will increase in viscosity at a faster rate than the synthetic rubber portion to give a more uniform reclaim having a Mooney viscosity measured at 180° F. in the range between 50 and 180.

2,612,480
PRINTING INK

Merrill R. May, Brooklyn, N. Y., assignor to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware

No Drawing. Application September 6, 1950, Serial No. 183,478
8 Claims. (Cl. 260—4)

1. A printing ink adapted for imprinting polyethylene film comprising a water in lacquer emul-

sion, the lacquer phase having pigment dispersed therein and comprising a vehicle containing, for approximately 20 percent to 30 percent by weight thereof, a binder composition comprising approximately 6 to 14 parts by weight of polyethylene, approximately 3 to 7 parts by weight of paraffin wax, the ratio of polyethylene to paraffin wax being within the range of from approximately 2 to 1 to approximately 4 to 1, and approximately 4 to 10 parts by weight of a material selected from the group consisting of natural rubber, polymerized 2-chloro-butadiene 1,3, polymerized 2,3 dimethyl butadiene, polymerized butadiene 1,3, a copolymer of isobutylene and butadiene, a copolymer of butadiene and styrene, a copolymer of butadiene and acrylonitrile, and cyclized synthetic polyisoprene, the remainder of the vehicle comprising an aromatic hydrocarbon solvent.

2,612,481

PHENOL ALDEHYDE ADHESIVE CONTAINING A CHROMIUM COMPOUND

Charles N. Cone, Portland, Oreg., assignor to United States Plywood Corporation, New York, N. Y., a corporation of New York

No Drawing. Application April 25, 1949, Serial No. 89,553

14 Claims. (Cl. 260—17.2)

1. The rapid setting adhesive composition comprising a thermosetting phenol-aldehyde resin, a chromium compound soluble in aqueous alkaline media, a solid filler comprising a member of the group consisting of a cellulose filler and clay, water, and an alkali metal hydroxide, the constituents being employed in substantially the following proportions, expressed in parts by weight on a solids basis;

Resin	200
Chromium compound, expressed as chromium	0.1–5.0
Filler	20–200
Water	250–650
Alkali metal hydroxide	Sufficient to adjust pH of composition to at least about 10.

2,612,482

WATER-REPELLENT COMPOSITIONS

Thomas J. Rasmussen, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application March 17, 1950, Serial No. 150,349

4 Claims. (Cl. 260—29.4)

1. A composition adapted for rendering textiles water-repellent comprising, by weight, (*a*) from 0.5 to 15 percent of a resinous composition selected from the class consisting of water-soluble urea-aldehyde and water-soluble melamine-aldehyde resins, (*b*) from 0.4 to 12 percent of an organopolysiloxane free of silicon-bonded hydrogen in which all the organic groups are attached to silicon atoms by carbon-silicon linkages and there are present from 1.9 to 3.0 organic groups per silicon atom, and (*c*) from 0.05 to 3.5 percent of a methyl hydrogen polysiloxane comprising the liquid product obtained by hydrolyzing methyldichlorosilane, the aforesaid treating composition being in the form of an emulsion of the mixture of polysiloxanes and a water solution of the resinous composition.

2,612,483

FORMALDEHYDE-UREA ADHESIVES AND COATING COMPOUNDS

William C. Dearing, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Continuation of application Serial No. 425,353, January 1, 1942. This application October 3, 1947, Serial No. 777,859

10 Claims. (Cl. 260—29.4)

1. A stable dry mixture comprising a water-soluble formaldehyde-urea reaction product, an ammonium salt of a non-volatile strong acid, and a substance selected from the group consisting of alkali metal sulfites and alkaline earth metal sulfites, said mixture, upon addition of water, forming a delayed-hardening composition.

2,612,484

POLYMERIC TETRAFLUOROETHYLENE DISPERSIONS

Seymour George Bankoff, Terre Haute, Ind., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 27, 1949, Serial No. 107,135

5 Claims. (Cl. 260—29.6)

1. In a polymerization of monomeric tetrafluoroethylene dissolved in an aqueous medium to obtain a colloidal dispersion of polymeric tetrafluoroethylene, the step of carrying out said polymerization at a temperature of 0° C. to 100° C. in the presence of a water-soluble peroxy polymerization catalyst and in the presence of 0.1%–12%, by weight of said aqueous medium, of a saturated hydrocarbon having more than 12 carbon atoms and which is liquid under the polymerization conditions.

2,612,485

AQUEOUS DISPERSIONS CONTAINING A WATER-SOLUBLE SULFONATED POLYSTYRENE

Massimo Baer and Reid G. Fordyce, Springfield, Mass., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 11, 1949, Serial No. 109,814

7 Claims. (Cl. 260—29.6)

1. An aqueous dispersion containing 100 parts of an aqueous emulsion of an organic resin taken from the group consisting of polyvinyl chloride and polystyrene and 5 to 20 parts of the sodium salt of a completely water-soluble sulfonated polystyrene.

2,612,486

STYRENE-MONOALKYL MALEATE-POLYVINYL ALCOHOL INTERPOLYMERS EMULSION ADHESIVE AND PROCESS OF PREPARING SAME

Martha E. Cameron, Seattle, Wash., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 7, 1950, Serial No. 172,617

8 Claims. (Cl. 260—29.6)

1. An aqueous emulsion adhesive comprising the interreaction product of (A) from about 0.7 to about 2.3 moles of styrene, (B) 1.0 mole of mono-1 to 4 carbon atom alkyl maleate, and (C) from about 15 to about 30 parts by weight of high viscosity, substantially completely hydrolyzed polyvinyl alcohol per 100 parts by weight of styrene, wherein the said interreaction product is prepared in the presence of a peroxygen interpolymerization catalyst and an external water phase at a temperature of from about 80° C. to the reflux temperature of said mixture for from about 0.5 to about 20 hours to provide an emulsion adhesive characterized by a spreadable consistency and a resistance to failure when exposed to temperatures up to 180° F. while under stress.

2,612,487

SOLUTIONS OF HOMOPOLYMERS OF CERTAIN OPTICALLY ACTIVE ALPHA-AMINO ACIDS IN POLYCHLORO- AND POLYFLUORO-ACETIC ACIDS

Ralph E. Miegel, Elsmere, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 24, 1950, Serial No. 197,514

12 Claims. (Cl. 260—31.2)

1. A solution, in dichloroacetic acid, containing 0.5 to 30%, by weight of the total composition, of an optically active homopolyamide of degree of polymerization of at least 50, the units of said polymer consisting essentially of units of the same optically active antipodal species of an alpha-monoaminomonocarboxylic acid wherein the carbon alpha to the carboxyl group is bonded to a primary amino, $—NH_2$, group, a hydrogen atom, and an alkyl radical of one to two carbons.

2,612,488

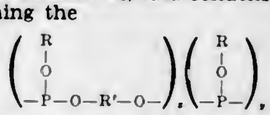
STABILIZATION OF ORGANIC MATERIALS WITH ARYL POLYPHOSPHITES

Joseph F. Nelson, Rahway, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 2, 1950, Serial No. 193,751

13 Claims. (Cl. 260—45.5)

1. As a new composition of matter, an aryl polyphosphite resinous condensation product produced by the reaction which comprises condensing an aromatic compound containing one hydroxyl group linked to the aromatic nucleus with a phosphorus compound having the formula PX_3, wherein X is a halogen radical selected from the group consisting of Cl, Br and I radicals and condensing the resulting product with an aromatic compound having two OH groups linked to the aromatic nucleus, said condensation product containing the



structural unit, wherein R and R' are aromatic radicals and wherein x is a natural number, y is a number selected from the group consisting of 0 and 1, but when y is 0, x is at least two.

2,612,489

PLASTIC COMPOSITIONS COMPRISING BIPHENYLYL ESTERS OF ALIPHATIC ACIDS

Carl B. Havens, Hope, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application March 26, 1951, Serial No. 217,689

8 Claims. (Cl. 260—45.85)

1. A composition of matter comprising a polymeric product containing at least 50 per cent of vinyl chloride in the polymer molecule, and, as a stabilizing agent therefor, from 5 per cent by weight up to and including plasticizing quantities, of the biphenylyl ester of at least one unsubstituted straight-chain aliphatic monocarboxylic acid containing from 10 to 18 carbon atoms and selected from the class consisting of the alkanoic acids and the alkenoic acids containing from 1 to 4 ethylenic double bonds.

2,612,490

HOMOGENEOUS POLYMERIZATION OF VINYLIDENE COMPOUNDS WITH AN α,α - DIALKYLARYLMETHYL HYDROPEROXIDE AND A HEAVY METAL COMPOUND AS CATALYST

Charles W. Gould, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 24, 1948, Serial No. 67,243

9 Claims. (Cl. 260—63)

1. The process which comprises homogeneously polymerizing a monomeric compound containing the $CH_2=C<$ group and which is capable of being polymerized by a peroxide catalyst, in the presence of a catalyst comprising an α,α-dialkylarylmethyl hydroperoxide in which each alkyl group contains not more than 4 carbon atoms and a heavy metal acetylacetonate.

2,612,491

MIXED POLYCARBOXYLIC ACID ESTERS OF ALKYLIDENE GLYCOLS AND POLYMERS THEREOF

Theodore W. Evans, Oakland, and David E. Adelson, Berkeley, Calif., and Lynwood N. Whitehill, Chicago, Ill., assignors to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application August 25, 1951, Serial No. 243,764

16 Claims. (Cl. 260—78.4)

14. A polymer of ethylidene acetate allyl maleate.

2,612,492

SOLUBLE COPOLYMERS OF DIALLYLIC PHTHALATES AND ALLYLIC ALCOHOLS

Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application September 12, 1945, Serial No. 615,927

6 Claims. (Cl. 260—78.5)

1. An acetone-soluble, fusible copolymer of a binary mixture of monomers consisting solely of a diallylic phthalate monomer selected from the class consisting of diallyl phthalate, and dimethallyl phthalate monomers and an allylic alcohol monomer in which the allylic radical is selected from the class consisting of allyl, beta-alkylallyl, and gamma-alkylallyl radicals, said copolymer containing residual unsaturation and being capable of further polymerization.

2,612,493

NONCONJUGATED HIGHER DIOLEFIN HOMOPOLYMERS

William J. Sparks and Robert M. Thomas, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 3, 1951, Serial No. 249,638

7 Claims. (Cl. 260—94.2)

1. The process which comprises essentially homopolymerizing a non-conjugated diolefin of 7 to 26 carbon atoms having terminal isopropenyl groups, at a temperature of about −20° C. to −164° C., in the presence of a Friedel Crafts catalyst.

2,612,494

STABILIZED DIAZONIUM SALTS AND PROCESS OF EFFECTING SAME

William H. von Glahn, Loudonville, and Herman A. Bergstrom, Albany, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 22, 1948, Serial No. 56,047
10 Claims. (Cl. 260—141)

5. A stable, dry, non-dusting diazonium composition comprising an aromatic diazonium salt in complex combination with a mixture of sodium oleate and 1,5-naphthalene disulfonic acid.

2,612,495

STABILIZED DIAZONIUM SALTS AND PROCESS OF EFFECTING SAME

William H. von Glahn, Loudonville, and Herman A. Bergstrom, Albany, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 29, 1948, Serial No. 68,073
8 Claims. (Cl. 260—142)

7. A stable, dry, non-dusting diazonium composition comprising an aromatic diazonium salt combined as a complex double salt partially with an anionic surface-active agent containing a hydrophobic group selected from the class consisting of aliphatic hydrophobic groups and alkylaromatic groups, and an aromatically linked hydrophilic group, and partially with a Fast Color Salt stabilizer the surface-active agent being present in an amount equal to at least 5% of the amount of the diazonium salt, said complex double salt having a crystalline form such that it retains less water in a filter cake upon filtration of an aqueous suspension thereof than a filter cake of the corresponding aromatic diazonium salt combined as a complex double salt solely with said Fast Color Salt stabilizer.

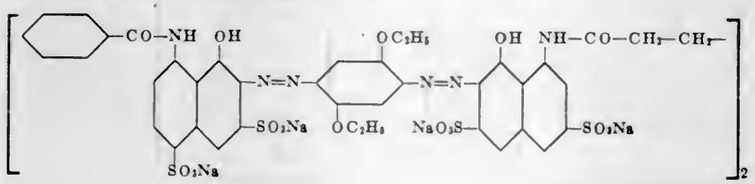
2,612,496

ACID AZO DYES

Bela Gaspar, Beverly Hills, and Paul Daniel Dreyfuss, Van Nuys, Calif., assignors, by mesne assignments, to said Gaspar

No Drawing. Application April 2, 1948, Serial No. 18,713
10 Claims. (Cl. 260—166)

8. An azo dye of the formula



2,612,497

PROCESS FOR MANUFACTURE OF HEXOSE UREIDES AND THIOUREIDES

Hendrik W. Meijer, Veendam, Netherlands

No Drawing. Application January 12, 1949, Serial No. 70,586. In the Netherlands January 24, 1948
4 Claims. (Cl. 260—209)

1. A process for the preparation of hexose ureides and thioureides, comprising condensing a hexose reactant with a reactant selected from the group consisting of urea and thiourea, splitting out an equivalent of water, upon heating the reactants to a temperature from about 60° to about 100° C. in the presence of water and a dehydrating agent selected from the group consisting of sulphuric acid, zinc chloride and phosphoric acid the water being present in an amount of at most 20% by weight of the total mixture.

2,612,498

SULFATION OF ALGINIC ACID IN ALCOHOLIC SULFURIC ACID

Harvey E. Alburn, Philadelphia, Pa., assignor to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application September 19, 1950, Serial No. 185,698
2 Claims. (Cl. 260—209.6)

1. The method of producing salts of alginic acid sulfate which comprises suspending alginic acid in a mixture of a lower aliphatic alcohol and concentrated sulfuric acid held in the approximate temperature range of —35° C. to —15° C., heating said suspension to the reaction temperature range of 5° C. to 30° C. for approximately 5 minutes, quenching said solution in crushed ice, neutralizing said solution to approximately pH7, precipitating the salt of alginic acid sulfate by the addition of acetone to the solution, and separately collecting the precipitate.

2,612,499

PROCESS FOR THE PRODUCTION OF CHONDROITIN POLYSULFURIC ACID ESTERS

Robert Pulver, Basel, Switzerland, assignor to J. R. Geigy A. G., Basel, Switzerland, a Swiss firm

No Drawing. Application October 3, 1951, Serial No. 249,629. In Switzerland October 17, 1950
3 Claims. (Cl. 260—211.5)

1. A method of preparing chondroitin polysulphuric acid which comprises reacting chondroitin sulphuric acid with chlorosulphonic acid in formamide at a temperature between the solidification temperature of the formamide-chlorosulphonic acid mixture employed and 40° C.

2,612,500

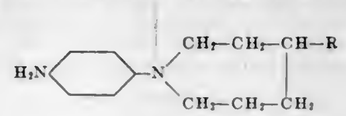
N(P-AMINOPHENYL) HEXAMETHYLENIMINES

Maynard S. Raasch, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 29, 1950, Serial No. 152,753
8 Claims. (Cl. 260—239)

1. A compound taken from the class consisting of an N-(p-aminophenyl) hexamethylenimine and its acid addition salts.

2. The addition salts of the N-(p-aminophenyl) hexamethylenimines having the general formula:



where R is an ether radical, the oxygen atom of which is directly attached to the fourth atom of the hexamethylenimine ring.

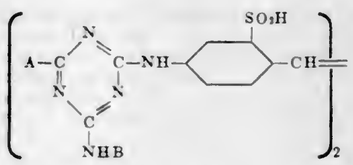
2,612,501

TRIAZINE SUBSTANCES FOR TEXTILE TREATMENT

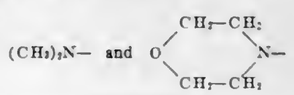
Robert H. Wilson, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application October 8, 1948, Serial No. 53,600. In Great Britain October 14, 1947
11 Claims. (Cl. 260—247.1)

2. A compound represented by the formula



and salts thereof, wherein A is a radical selected from the group consisting of



and B is a radical selected from the group consisting of alkyl and monocyclic aryl radicals.

2,612,502

EXTRACTION OF CYCLOHEXIMIDE

Byron E. Leach, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application February 17, 1947, Serial No. 729,201
10 Claims. (Cl. 260—281)

1. A process for the recovery of cycloheximide from an acidic *Streptomyces griseus* fermentation beer, which comprises treating the beer with activated adsorptive carbon, eluting the adsorbed cycloheximide therefrom with at least one solvent of the group consisting of water-miscible alcohols and ketones, removing the eluting liquid, dissolving the cycloheximide-containing residue in water and extracting the cycloheximide from the aqueous solution with a chlorinated hydrocarbon solvent.

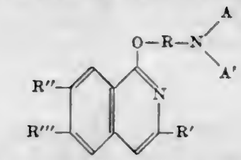
2,612,503

BASIC ETHER-SUBSTITUTED ISOQUINOLINES

Glenn E. Ullyot, Philadelphia, Pa., assignor to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application December 23, 1949, Serial No. 134,869. In Canada April 19, 1949
6 Claims. (Cl. 260—288)

1. A compound of the class consisting of a free base and its organic and inorganic acid addition salts, said free base having the formula:



in which A is selected from the group consisting of hydrogen, alkyl groups having not in excess of 6 carbon atoms, phenyl lower alkyl groups and lower alkoxy phenyl lower alkyl groups; A′ is selected from the group consisting of alkyl groups having not in excess of 6 carbon atoms, phenyl lower alkyl groups and lower alkoxy phenyl lower alkyl groups; R is an alkylene group having not in excess of 7 carbon atoms; R′ is selected from the group consisting of alkyl groups having not in excess of 8 carbon atoms, phenyl and benzyl radicals; R″ and R‴ are selected from the group consisting of hydrogen, alkyl groups having not in excess of 3 carbon atoms, alkoxy groups having not in excess of 3 carbon atoms, amino groups, alkylamino groups having not in excess of 4 carbon atoms and acylamino groups having not in excess of 4 carbon atoms.

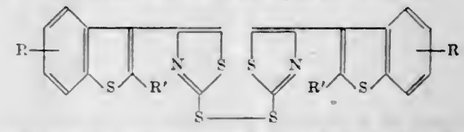
2,612,504

THIANAPHTHYLTHIAZOLYL DISULFIDES AND PROCESS FOR PREPARING SAME

William S. Emerson and Tracy M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 21, 1950, Serial No. 196,951
14 Claims. (Cl. 260—302)

1. Disulfides having the general formula



in which R and R′ are selected from the class consisting of hydrogen, chlorine, bromine and alkyl radicals of from 1 to 4 carbon atoms.

2,612,505

AMINOALKYL DERIVATIVES OF THIOPHENE

Howard D. Hartough, Pitman, and Sigmund J. Lukasiewicz, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application January 3, 1951, Serial No. 204,264
6 Claims. (Cl. 260—329)

1. The method for producing nitrogenous condensation products having as a characterizing group the thiophene residue, C_4H_nS, wherein n equals zero to 3, which comprises condensing at temperatures of about 65° C. to about 85° C. a thiophene compound selected from the group consisting of thiophene, an alkyl thiophene, and a halo thiophene, formaldehyde, and an ammonium halide selected from the group consisting of ammonium chloride and ammonium bromide, the reactants being present in the reaction mixture in the molar proportions of thiophene compound : formaldehyde : ammonium halide, of 1 to 5:0.3 to 4:0.25 to 4, to obtain a reaction mixture containing a hydrohalide salt of a basic nitroge-

nous condensation product, mixing said reaction mixture with an aqueous alkaline solution to decompose said hydrohalide salt and to set free said basic nitrogenous condensation product, and recovering the freed basic nitrogenous condensation product.

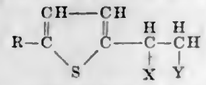
2,612,506

THIOCYANATES OF 2-VINYLTHIOPHENES

William S. Emerson and Tracy M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 1, 1947, Serial No. 758,474
7 Claims. (Cl. 260—329)

1. A compound of the structure



where R is a material of the group consisting of hydrogen, chlorine, fluorine, bromine and iodine, X is selected from the group consisting of thiocyano and isothiocyano radicals and Y is a thiocyano radical.

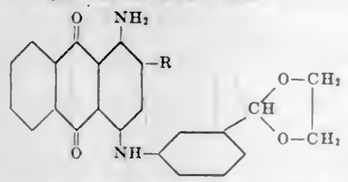
2,612,507

ANTHRAQUINONE DYES

David I. Randall, Easton, Pa., and Edgar E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 10, 1949, Serial No. 132,396
5 Claims. (Cl. 260—338)

1. A new dyestuff of the formula:



wherein R is selected from the group consisting of hydrogen and the sulfonic acid radical and the salts thereof.

2,612,508

PROCESS FOR CONIDENDROL MAKING

William M. Hearon, Camas, Wash., assignor to Crown Zellerbach Corporation, Camas, Wash., a corporation of Nevada

No Drawing. Application December 5, 1949, Serial No. 131,253
8 Claims. (Cl. 260—344.6)

1. The process for the production of conidendrol which comprises reacting conidendrin with a demethylating agent comprising hydriodic acid, the hydriodic acid being used in amount at least equal to about two mols of hydriodic acid for each mol of conidendrin.

2,612,509

COMPOSITIONS DERIVED FROM BEESWAX

William C. Griffin, West Chester, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 24, 1950, Serial No. 164,039
1 Claim. (Cl. 260—410.6)

A composition of matter comprising a reaction product of about 100 parts of beeswax with from about 10 to about 60 parts by weight of a polyoxyethylene sorbitol, containing from 4 to 40 oxyethylene groups per mol, the said oxyethylene groups being distributed over a plurality of the carbon atoms in the sorbitol carbon chain.

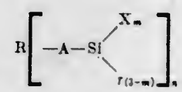
2,612,510

CROSS-LINKED SILANES

David B. Hatcher and Raymond H. Bunnell, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application January 6, 1950, Serial No. 137,274
9 Claims. (Cl. 260—448.2)

1. An organosilicon compound having the general formula



wherein R is an aromatic radical in which any atom other than carbon and hydrogen consists of a nuclear halogen having an atomic weight less than 80, and in which any exocyclic carbon atom is contained in a methyl side chain; A is a saturated divalent aliphatic radical, having from one to three carbon atoms, in which the free valences are connected through not more than two carbon atoms in series and in which any atom other than carbon and hydrogen consists of a halogen having an atomic weight between 35 and 80; X is a halogen having an atomic weight less than 80; r is a saturated primary aliphatic hydrocarbon radical having from one to three carbon atoms; m is an integer from 2 to 3; and n is an integer from 2 to 3.

2,612,511

PREPARATION OF HEXAALKOXYDISILANES

Bernard A. Orkin, Philadelphia, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application September 22, 1948, Serial No. 50,669
8 Claims. (Cl. 260—448.8)

1. A process for the production of compounds having the formula, $(RO)_3SiSi(OR)_3$, wherein R is a radical selected from the group consisting of aliphatic, alicyclic, aryl, aralkyl, thienyl, pyridyl, furfuryl, and quinolyl radicals, which comprises reacting a hydroxy compound selected from the group consisting of monohydroxyphenols and monohydroxy alcohols, with a hexahalodisilane in an aromatic hydrocarbon solvent, and at a temperature of between about 80° C. and about 140° C.; said hydroxy compound being used in amounts equivalent to an excess over six moles for each mole of hexahalodisilane.

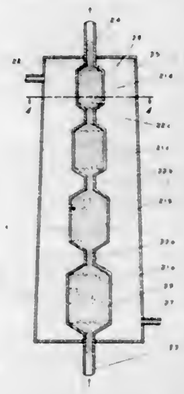
2,612,512

PROCESS FOR THE SYNTHESIS OF HYDROCARBONS FROM CARBON MONOXIDE AND HYDROGEN BY MEANS OF A FLUIDIZED FIXED-BED

Jesse N. Moran, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 16, 1947, Serial No. 774,385
3 Claims. (Cl. 260—449)

1. A fluidized fixed-bed method for synthesizing hydrocarbons by the reduction of hydrogen and carbon monoxide which comprises the steps of introducing all of a synthesis gas comprising hydrogen and carbon monoxide into the lower portion of a first unobstructed reaction zone of a reaction chamber at a reaction temperature and at a velocity sufficient to uniformly distribute a particulate catalyst within and throughout said unobstructed reaction zone; passing said synthesis gas and resulting reaction products through an unobstructed constriction zone of said reaction chamber into a second unobstructed reaction zone of a smaller volume than said first reaction zone with sufficient velocity to similarly uniformly distribute particulate catalyst therein; similarly passing said synthesis gas and reaction products through at least one more unobstructed constriction zone and at least one more unobstructed reaction zone successively smaller than its immediately preceding reaction zone of said re-



action chamber, the supplying of gas to the lower portion of said first reaction zone being the sole supply of gas to said reaction zones; maintaining the overall space velocity through said reaction zones at between 1500 and 5000 volumes (STP) of gas per volume of catalyst per hour so that a corresponding space velocity is maintained at corresponding positions in the reaction zones; passing a coolant through a cooling zone surrounding the length of said reaction zones and constriction zones of said reaction chamber so as to remove resulting heat of reaction at the periphery of said zones from the materials within said zone; removing said reaction products and a small portion of said catalyst from the last successive zone of said reaction chamber; separating said resulting reaction products and said catalyst; and recycling said catalyst only to said first unobstructed reaction zone.

2,612,513

PREPARATION OF DIESTERS OF ALIPHATIC OXOPHOSPHONIC ACIDS

Earl W. Gluesenkamp, Centerville, and Tracy M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application August 25, 1950, Serial No. 181,574
17 Claims. (Cl. 260—461)

1. The method of preparing diesters of aliphatic oxophosphonic acids which comprises contacting a diester of phosphorous acid with an α,β-unsaturated aliphatic ketone in the presence of a free-radical liberating agent.

2,612,514

PRODUCTION OF ESTERS OF RELATIVELY STRONG ORGANIC AND INORGANIC ACIDS WITH ALIPHATIC COMPOUNDS HAVING MORE THAN ONE CARBON ATOM

Edwin P. Plueddemann, Toledo, Ohio, assignor to Food Machinery and Chemical Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 4, 1947, Serial No. 752,557
16 Claims. (Cl. 260—461)

11. The method of producing tribenzyl phosphate which comprises heating benzyl chloride with a methyl ester of an alkali metal acid phosphate in the presence of an amine at a temperature above 100° C. until methyl chloride is liberated and tri-benzyl phosphate is obtained.

2,612,515

USE OF PHOSPHITES IN ESTERIFICATION REACTIONS OF SYNTHETIC ALCOHOLS

Boyd E. Hudson, Jr., Cranford, Howard L. Wilson, Elizabeth, and Joseph F. Nelson, Rahway, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 22, 1949, Serial No. 123,081
5 Claims. (Cl. 260—475)

1. A process for the preparation of organic esters in the presence of stainless steel surfaces from a dibasic organic acid of the group consisting of maleic, adipic, and phthalic acids and a monohydric alkanol having 4 to 12 carbon atoms per molecule having sulfur-containing impurities which cause color formation unless inhibited during the esterification, said alkanol being produced in a two-stage operation consisting of a first stage in which hydrogen, carbon-monoxide, and an olefin are contacted in the presence of an oxonation catalyst, forming a product predominantly aldehyde and of a second stage in which the said aldehyde product is catalytically reduced with hydrogen to form the corresponding alkanol which comprises carrying out the esterification of the alcohol having the sulfur-containing impurities in the presence of from 0.10 to 5 weight percent based on the alcohol of an organic phosphite ester from the group consisting of trialkyl phosphite, triphenyl phosphite, tricresyl phosphite, and organic homocyclic polyphosphite ester to inhibit color formation during the esterification, and obtaining a relatively colorless organic ester product from the esterification.

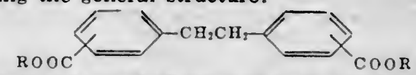
2,612,516

CONDENSATION CHLOROMETHYL BENZOATES

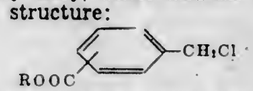
Robert A. Heimsch and William S. Emerson, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 25, 1950, Serial No. 151,992
7 Claims. (Cl. 260—475)

1. A process for producing a dicarboxylate having the general structure:



wherein R is an alkyl group of from 1 to 8 carbon atoms, which includes refluxing a mixture comprising Raney alloy, water and an ester having the general structure:



in which R is an alkyl group of from 1 to 8 car-

bon atoms, and recovering said dicarboxylate from the reaction product.

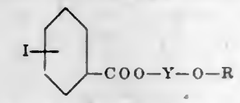
2,612,517

ALKOXYALKYL IODOBENZOATES

Sydney Archer, Albany, N. Y., assignor to Sterling Drug Inc., Wilmington, Del., a corporation of Delaware

No Drawing. Application November 24, 1947, Serial No. 787,853
8 Claims. (Cl. 260—476)

1. A compound having the formula



where Y is an alkylene bridge of from 2 to 5 carbon atoms and at least two carbon atoms separate the carboxyl group from the —OR group, and R is an alkyl group of from 1 to 6 carbon atoms, said compound having a total of from 10 to 18 carbon atoms.

2,612,518

PREPARATION OF ALKYL ACYLAMIDO-ACETOACETATES

John A. King, Manhasset, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 23, 1951, Serial No. 217,293
3 Claims. (Cl. 260—482)

1. The process for preparing a lower alkyl (lower aliphatic carboxylic acyl) aminoacetoacetate which comprises catalytically hydrogenating a mixture of a lower alkyl oximinoacetoacetate and a lower aliphatic carboxylic acid anhydride in the presence of a palladium catalyst.

2,612,519

PREPARATION OF ESTERS OF α,β-DICHLOROPROPIONIC ACID

William O. Ney, Jr., Somerset Center, Mass., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 9, 1950, Serial No. 200,090
4 Claims. (Cl. 260—487)

2. A process for the preparation of an ester of α,β-dichloropropionic acid, which comprises passing chlorine into a liquid acrylic acid ester of an alcohol of the class consisting of saturated aliphatic, cycloaliphatic, and araliphatic alcohols, containing from 1 to 8% of its weight of water, at a temperature of —10 to 80° C.

2,612,520

PREPARATION OF CARBOXYLIC ACIDS

Thomas F. Doumani, Los Angeles, and Clarence S. Coe, Rolling Hills, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application October 28, 1949, Serial No. 124,234
12 Claims. (Cl. 260—533)

1. In a process wherein a reaction mixture consisting essentially of a mono-olefinic hydrocarbon selected from the class consisting of aliphatic, cyclo-aliphatic and aromatic-substituted aliphatic mono-olefinic hydrocarbons, carbon monoxide and water is caused to react at an elevated temperature and pressure to form the mono-carboxylic acid corresponding to said mono-olefinic hydrocarbon, the steps which consist in adding to said reaction mixture prior to initiation of the reaction a catalytic amount of mono-carboxylic hydrocarbon acid selected from the class consisting of aliphatic, cyclo-aliphatic, and aromatic-substituted aliphatic mono-carboxylic hydrocarbon acids, and effecting the reaction in the absence of catalytic agents other than said added mono-carboxylic hydrocarbon acid.

2,612,521

ALPHA-AMINO,4,6,6-TRIMETHYL HEPTANOIC ACID

Robert Neal MacDonald, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 9, 1951, Serial No. 235,900
1 Claim. (Cl. 260—534)

2-amino-4,6,6-trimethylheptanoic acid.

2,612,522

ALKANOYL-α-ETHYLBENZYLUREAS

Robert Duschinsky, Essex Fells, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application July 15, 1950, Serial No. 174,117
3 Claims. (Cl. 260—553)

3. 1-(α-ethylbenzyl)-3-lower alkanoyl urea.

2,612,523

PROCESS FOR PREPARING PURE WELL-CRYSTALLIZED HEXANITRODIPHENYLAMINE

Jan Hendrik Dijkema, Haarlem, Netherlands, assignor to A/S Norduco, Oslo, Norway, a Norwegian company

No Drawing. Application June 27, 1950, Serial No. 170,706. In the Netherlands June 30, 1949
7 Claims. (Cl. 260—576)

1. A process for preparing pure, well-crystallized hexanitrodiphenylamine from 2,4-dinitrodiphenylamine by nitration in two stages, comprising the steps of nitrating said dinitro compound in a first nitration stage by means of a nitration acid essentially consisting of nitric acid and of minor but substantial amounts of water and sulphuric acid not exceeding 25% and 20% by weight respectively, separating off the thus obtained tetranitrodiphenylamine crystals from the nitration acid, nitrating the tetranitrodiphenylamine in a second nitration stage by means of a mixture of concentrated nitric acid and concentrated sulphuric acid in which the ratio by weight of $HNO_3 : H_2SO_4$ is between 3:1 and 10:1, both nitration stages being carried out at a temperature not exceeding 50° C. and the amount of nitration acid being sufficient to maintain the reaction mixture readily stirrable, and separating the hexanitrodiphenylamine crystals from the nitration acid.

2,612,524

PREPARATION OF KETONES BY DEHYDROCARBOXYLATION OF CARBOXYLIC ACIDS

Albert C. Zettlemoyer, William C. Walker, and William L. Stump, Bethlehem, Pa., assignors to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 9, 1948, Serial No. 64,434
10 Claims. (Cl. 260—590)

1. In the production of ketones from carboxylic acids at elevated temperatures, the improvement which comprises, catalyzing the dehydrocarboxylation reaction by carrying out the same in the presence of an active magnesia being a magnesium oxide-magnesium hydroxide product having an iodine number in excess of 15 and an ignition loss of from 1 to 20% at a temperature below about 350° C.

2,612,525

PRODUCTION OF PENTAERYTHRITOL

Max O. Robeson and Solon A. Blundell, Jr., Corpus Christi, Tex., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application March 26, 1949, Serial No. 83,766
6 Claims. (Cl. 260—635)

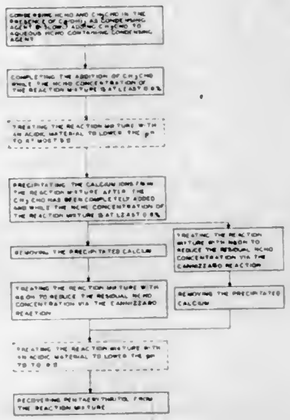
1. Process for the production of pentaerythritol, which comprises adding a mixture of acetaldehyde and an aqueous solution of formaldehyde obtained by the vapor phase partial oxidation of aliphatic hydrocarbons to an aqueous slurry of calcium hydroxide, allowing the temperature of the reacting mixture during the resulting exothermic reaction to rise to a maximum of about 105 to 115° F., continuing the reaction without further heating while allowing the temperature to fall, heating the reaction mixture to increase the temperature thereof, above the previous temperature reached after the temperature has fallen, by at most 15° F. to initiate a second exothermic reaction, immediately cooling the reaction mixture after maximum reaction temperature is attained, and then neutralizing the calcium hydroxide in the reaction mixture by adding sulfuric acid thereto.

2,612,526

PENTAERYTHRITOL MANUFACTURE

Charles W. Gould, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

Application June 22, 1950, Serial No. 169,753
19 Claims. (Cl. 260—635)



1. The process for preparing pentaerythritol which comprises condensing formaldehyde and acetaldehyde in the presence of $Ca(OH)_2$ as condensing agent by slowly adding acetaldehyde to substantially all of the formaldehyde which is in the form of an aqueous solution containing condensing agent, the aldehydes being employed in such proportions that at the time the acetaldehyde has been completely added the formaldehyde concentration of the reaction mixture is at least 0.8% by weight, completing the addition of acetaldehyde while the formaldehyde concentration of the reaction mixture is at least 0.8% by weight, precipitating the calcium from the reaction mixture after the acetaldehyde has been completely added and while the formaldehyde concentration of the reaction mixture is at least 0.8% by weight, subjecting the reaction mixture to the following two treatments in any order: removal of the precipitate and treatment of the reaction mixture with NaOH to reduce the residual formaldehyde concentration via the Cannizzaro reaction, and finally recovering the pentaerythritol from the resulting reaction mixture of reduced formaldehyde content.

2,612,527

METHOD OF REDUCTION OF ESTERS, ETHOLIDES, GLYCERIDES

Paul Anglaret, Ville D'Avray, France

No Drawing. Original application June 27, 1947, Serial No. 757,661. Divided and this application January 3, 1952, Serial No. 264,855. In France July 5, 1946
8 Claims. (Cl. 260—638)

1. In a method for the production of higher alcohol by the reaction of an ester of a higher fatty acid with metallic sodium and a substantially anhydrous lower aliphatic alcohol with resultant formation of a sodium alcoholate, the improvement which comprises: carrying out said reaction at substantially atmospheric pressure; during said reaction, decomposing the sodium alcoholate substantially as fast as it is formed and regenerating said lower alcohol by adding during said reaction carbon dioxide and water; and maintaining during said reaction a temperature between about 80° C. and the boiling temperature of the mixture of reactants and reaction products.

2,612,528

PHENYL TRIFLUOROETHYLENE

Saul G. Cohen, Brighton, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

No Drawing. Application April 16, 1949, Serial No. 88,034
1 Claim. (Cl. 260—651)

Phenyl trifluoroethylene.

2,612,529

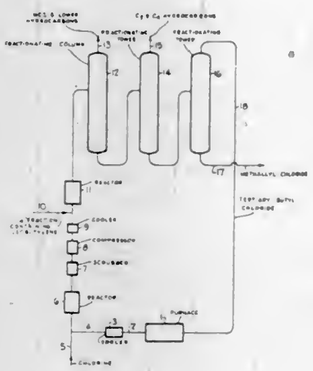
HIGHER MOLECULAR WEIGHT FLUORINE-CONTAINING COMPOUNDS

Charles F. Feasley, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application January 12, 1949, Serial No. 70,592
6 Claims. (Cl. 260—653)

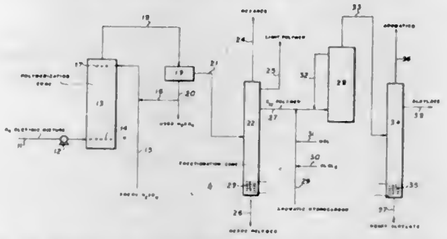
1. Compounds of increased molecular weight, consisting of the residue obtained by contacting a 1,1,1,3-polyhalogenated paraffinic hydrocarbon having between about 4 and about 30 carbon atoms per molecule with a large excess of anhydrous hydrogen fluoride, in the liquid phase, and at temperatures varying between about 0° C. and about 150° C. to produce a reaction product, and removing distillable matter from said reaction product under vacuum distillation conditions.

2,612,530
PRODUCTION OF METHALLYL CHLORIDE
Alexander J. Cherniavsky, San Francisco, and David Brown, Mill Valley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application December 21, 1948, Serial No. 66,464
11 Claims. (Cl. 260—654)



8. A process for producing methallyl chloride which comprises heating tertiary butyl chloride at a temperature above 300° C. for a short period, cooling the resulting product and mixing it with chlorine vapor, and maintaining the resulting mixture in the vapor state at a temperature between 0° C. and 300° C.

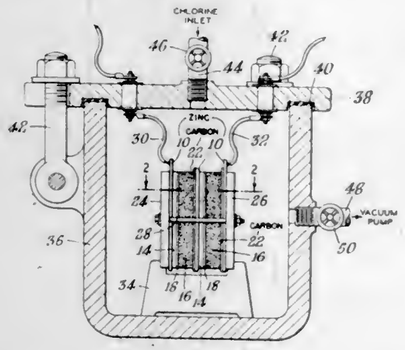
2,612,531
POLYMERIZATION OF OLEFINS AND THE ALKYLATION OF POLYMER
Joseph T. Horeczy, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application December 6, 1950, Serial No. 199,515
6 Claims. (Cl. 260—671)



3. A method for producing an alkylate suitable for use in the manufacture of detergent which comprises contacting a mixture of olefinic hydrocarbons having 6 carbon atoms in the molecule and containing type I, II, III and IV olefins and hexanes at a temperature in the range between 175° and 225° F. with sulfuric acid having a titratable acidity no less than 70% H_2SO_4 under equilibrium conditions to form a polymerized product, distilling said product of said olefins to recover a polymer containing 12 carbon atoms in the molecule, admixing the polymer with an aromatic hydrocarbon having 6 to 8 carbon atoms in the molecule, alkylating the aromatic hydrocarbon in said admixture with the olefinic polymer to form an alkylate and recovering said alkylate.

ELECTRICAL

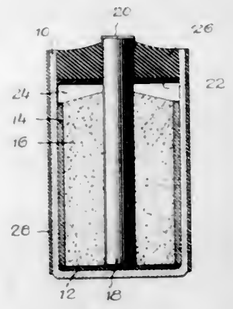
2,612,532
PRIMARY CELL OR BATTERY
George W. Heise, Fairview, and Erwin A. Schumacher, Parma, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application October 2, 1948, Serial No. 52,472
9 Claims. (Cl. 136—86)



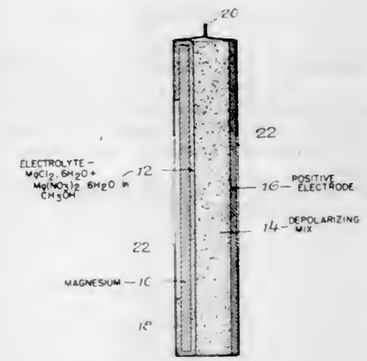
3. A primary dry cell of the deferred action, gas depolarized type comprising: a moist porous carbon cathode; a consumable metal anode; a spacer element between the adjacent portions of the anode and cathode and forming the periphery of a closed chamber for electrolyte; within the chamber an electrolyte material having a flow resistance within the range from a viscosity of 100,000 centipoises to a paste; the whole adapted to deliver current upon the entry of gaseous chlorine into the pores of the cathode; an ionically permeable, electrolyte-insoluble separator sheet between the electrolyte material and the cathode; means to hold the anode and cathode in position compressing the electrolyte material within the chamber and compressing the spacing element to prevent leakage of the said material; a casing enclosing the aforesaid parts; valve means for admitting gas to the cathode within the casing, the casing being gas tight when said valve means are closed; the pores of the cathode containing insufficient water to block the passage of gas through substantially the entire body of the cathode.

2,612,533
PRIMARY CELL
Ivan C. Blake, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application May 29, 1951, Serial No. 228,833
7 Claims. (Cl. 136—93)

4. In a current-producing primary cell having a positive electrode and a magnesium negative electrode and an aqueous bromide electrolyte in contact with said electrodes; for inhibiting spontaneous corrosion of said negative electrode a compound in access relation to said electrolyte from the group consisting of barium potassium chromate, barium sodium chromate and barium ammonium chromate.



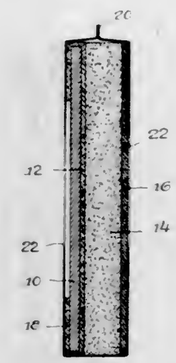
2,612,534
PRIMARY CELL
Ivan C. Blake, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application April 24, 1951, Serial No. 222,707
4 Claims. (Cl. 136—100)



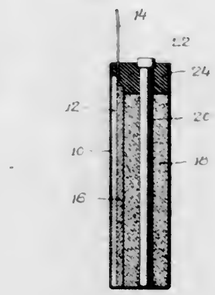
1. In a primary cell having a positive electrode and a magnesium negative electrode, an electrolyte in contact with said electrodes having a solvent component comprising essentially methanol and a solute component comprising essentially a mixture of magnesium chloride and magnesium nitrate.

2,612,535
PRIMARY CELL
Ivan C. Blake, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application April 24, 1951, Serial No. 222,706
5 Claims. (Cl. 136—107)

1. In a primary cell having a positive electrode and a magnesium negative electrode, an electrolyte in contact with said electrodes having a solvent component comprising a mixture of water and methanol, and a compound in access relation with said electrolyte from the group consisting of chromic acid and the salts of chromic acid having at least a slight degree of solubility in water.



2,612,536
PRIMARY CELL
Ivan C. Blake, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application May 5, 1951, Serial No. 224,684
9 Claims. (Cl. 136—107)

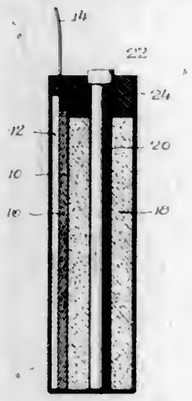


1. In a primary cell having an electrolyte and a zinc negative electrode, a spontaneous corrosion inhibiting compound in access relation to said electrolyte from the group consisting of barium potassium chromate, barium sodium chromate and barium ammonium chromate.

2,612,537
PRIMARY CELL
Ivan C. Blake, Freeport, Ill., assignor to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Application May 5, 1951, Serial No. 224,685
9 Claims. (Cl. 136—107)

1. A primary cell comprising a positive electrode and a magnesium negative electrode, an electrolyte in contact with said electrodes having a solvent component comprising a mixture of methanol and water and a solute component from the group consisting of the chlorides, nitrates and perchlorates of magnesium and the metals electronegative to magnesium in said elec-

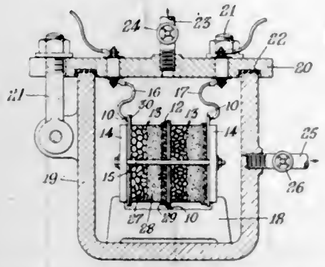
trolyte, and a compound from the group consisting of barium potassium chromate, barium sodium chromate and barium ammonium chromate in access relation with said electrolyte.



2,612,538
PRIMARY GALVANIC CELL AND BATTERY AND METHOD OF MAKING SAME

Nelson C. Cahoon, Lakewood, and George W. Heise, Fairview, Ohio, assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application October 6, 1948, Serial No. 52,988
14 Claims. (Cl. 136—136)



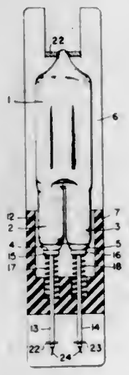
1. A substantially flat primary galvanic cell comprising: a substantially flat anode and a substantially flat cathode, means for holding the electrodes pressed together; a non-metallic reticulated spacing element between the electrodes resisting the pressure forcing the electrodes together; within the reticulations, electrolyte material having a consistency within the range from a viscosity of 5,000 centipoises to a paste; and an electrically conductive barrier sheet between the cathode and the electrolyte material acting as a physical barrier preventing mingling of the viscous electrolyte material with the material of the cathode.

2,612,539
CELL AND SUPPORT

Clarence A. Dyer, Glenside, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 15, 1946, Serial No. 690,793
5 Claims. (Cl. 136—173)

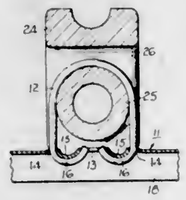
2. A support for mounting a standard cell in a casing, said support including, a bracket having an upstanding perforated part, a block of insulating material having a chamber in it confronting the perforation in said part and adapted to receive in it the electrodes and the adjacent parts of a standard cell without engagement of the adjacent parts of the standard cell with the walls of the chamber, a pair of contacts slidably mounted in said block, a pair of springs each stressing one of said contacts into engagement with one of said electrodes and serving to yieldingly support a standard cell between said parts and said block, and a pair of electric conductors each connected to one of said contacts.



2,612,540
INSULATOR SECURED UNDER TENSION TO AN INSULATOR RACK

Frederick G. Ridgers and Charlie W. Cassels, Hamilton, Ontario, Canada, assignors to N. Slater Company Limited, Hamilton, Ontario, Canada

Application July 18, 1950, Serial No. 174,482
1 Claim. (Cl. 174—163)

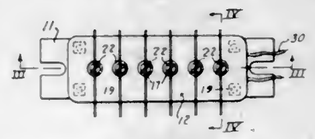


A wire holder comprising a channelled metallic support including a web, said web having a pair of parallel spaced depressions extending transversely across said metallic support, a pair of circular apertures, one on either side of said depressions, an oval aperture midway between said depressions and at right angles thereto, an insulator having a central recess in its base, projecting legs on said base adapted to rest in said depressions, and a U-shaped fastening member passing through said insulator and having its ends passing through said circular apertures in said channelled support and clinched up through said central oval shaped aperture under such tension that said channelled support is resiliently forced upwardly into said central recess.

2,612,541
INDIVIDUAL MAGNET WITH ADJUSTABLE SLEEVE PICKUP DEVICE

Harry De Armond, Toledo, Ohio, assignor to Rowe Industries, Toledo, Ohio

Application May 10, 1950, Serial No. 161,242
6 Claims. (Cl. 175—21)

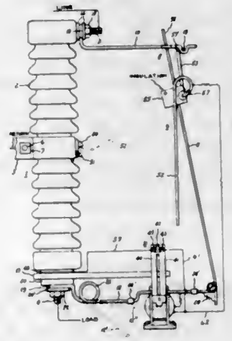


1. An insulating core and coil form carrying a coil and a plurality of permanent magnets with adjustable sleeve poles, said coil and magnets positioned in electrically inductive relation therebetween, said core having a plurality of substantially parallel openings extending transversely thereof; a plurality of permanent magnets, means to mount one magnet in each of said openings; a telescopic soft iron sleeve surrounding each magnet and substantially in contact therewith, each sleeve having a closed outer end and being adjustably mounted in said transverse openings; means to retain said sleeve in various positions of adjustment relative to the coil form; a coil spring within said sleeve compressed between the end of each magnet and the closed end of the sleeve; and means on the said sleeve for extending and retracting said sleeve.

2,612,542
ELECTRICAL PROTECTIVE DEVICE

George F. Lincks, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application September 20, 1949, Serial No. 116,701
3 Claims. (Cl. 175—294)

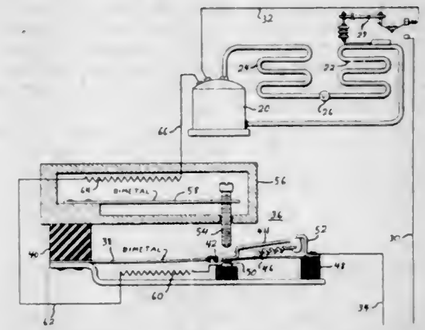


2. An electrical protective device for use in connecting apparatus to be protected and supplied with current to a line leading from a circuit interrupter responsive to the flow of abnormal current in said line, comprising main switching means connected in series with said line and arranged to be closed in normal operation of said device, auxiliary switching means comprising a stationary contact electrically connected to an auxiliary return path for said current and a movable contact electrically connected to said line and engageable with said stationary contact, said contacts being unengaged in normal operation of said device, means including a thermostatic element responsive to a predetermined current flowing through said main switching means to cause engagement of said movable contact with said stationary contact and interconnection of said line and said return path to cause abnormal current to flow in said line, a latch movable to a holding position to maintain said auxiliary switching means in said contact engaging position and movable to a released position to permit disengagement of said auxiliary switching means, a magnetic winding connected electrically in series with said line and an armature for said winding engageable with said latch in response to flow of said abnormal current to maintain said latch in said holding position and said auxiliary switching means in said contact engaging position, said armature being responsive to subsequent interruption of said abnormal current to permit release of said latch and effect opening of said main and disengagement of said auxiliary switching means.

2,612,543
ELECTRICAL APPARATUS

Donald F. Alexander, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application December 11, 1946, Serial No. 715,379
2 Claims. (Cl. 175—294)



1. In combination, an electric motor, a plurality of supply conductors for supplying electric energy to said motor, a self-resetting overload protector having a set of protector contacts connected in series with one of said supply conductors for deenergizing said electric motor, said overload protector including a stop for determining its reclosing setting, a thermal means for moving the stop, and a heating means connected in a direct single conductor series arrangement with one of said supply conductors and in series with said protector contacts and said motor and located in direct intimate heat exchange relationship with said thermal means for heating said thermal means throughout each operating period of the motor.

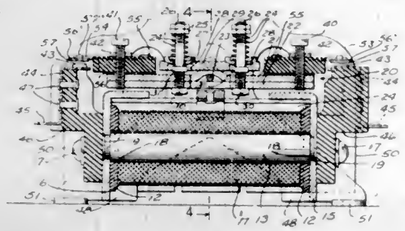
2,612,544
POLARIZED ELECTROMAGNETIC DEVICE

Richard T. Fisher, Hingham, Mass., assignor to Sigma Instruments, Incorporated, a corporation of Massachusetts

Application September 16, 1948, Serial No. 49,483
5 Claims. (Cl. 175—339)

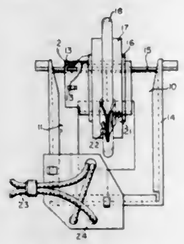
1. In a device of the class described, a magnetizable core, a pair of pole pieces operatively associated with the ends of the core, an operating winding on the core disposed intermediate the pole pieces, a centrally pivoted armature having its ends in responsive proximity to the pole pieces,

and an elongated magnetized member extending parallel to and in operative proximity to the armature having a magnetic pole area substantially midway of its length arranged to influence the armature near the center thereof and two pole areas at its ends of polarity opposite to that of the intermediate pole area arranged to influence the pole pieces with like polarity and to substantially equal degree, whereby the position of the armature may be selectively controlled by appropriate energization of the operating winding, said operating winding being of substantially circular cross section, a framework for



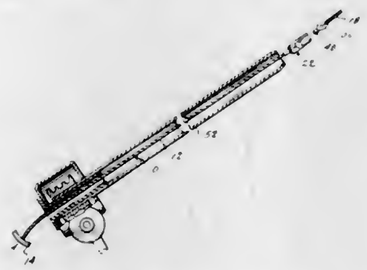
supporting the operating winding, core, pole pieces, armature and elongated magnetized member, said framework providing a space of substantially rectangular cross section for accommodation of the operating winding and magnetized member, said magnetized member being of substantially triangular cross section and means for supporting the same in a corner of the rectangular space in which the operating winding is mounted with the vertex of the triangle in proximity to such corner, and with the long side of the triangle in proximity to the circumference of the operating winding.

2,612,545
TELEVISION RECEIVER OUTPUT TRANSFORMER
Richard O. Gray, Broadview, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application February 11, 1950, Serial No. 143,713
4 Claims. (Cl. 175—356)



1. A transformer assembly for coupling the sweep-signal output stage of a television receiver to the deflection elements and anode voltage-supply network of a cathode-ray image-reproducing device, said transformer comprising: a pair of magnetic core sections positioned adjacent each other to define a hollow core structure having upright portions and a transverse portion extending therebetween; a hollow coil form mounted coaxially on said transverse portion and cut away at one end to receive one of said upright portions and to provide a section projecting over said one upright portion; a plurality of terminals fixed to said projecting section of said coil form; a first winding wound upon said coil form and having extremities electrically connected to a pair of said terminals; a second winding wound on said first winding in concentric relation therewith and having an extremity electrically connected to another of said terminals; a third winding wound concentrically on said second winding; and a strip of insulating material looped transversely around an arcuate section of and supported by said third winding and having a pair of terminals mounted thereon electrically connected respectively to the extremities of said third winding.

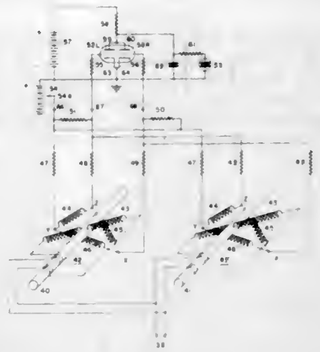
2,612,546
WIRE LEADER
Norman W. Romsos, Crosby, N. Dak.
Application June 15, 1951, Serial No. 231,889
1 Claim. (Cl. 175—376)



A device of the character described comprising a fish tape having a handle at one end thereof, and a socket at the other end thereof, a ball, and a split sleeve formed integrally with said ball, said sleeve adapted to engage a conductor wire, said ball adapted to be removably engaged in said socket, and said socket comprising a collar affixed to said tape, an enlarged sleeve portion formed integrally with said collar, said sleeve portion having a longitudinally extending slot extending inwardly from its outer end, a pair of outwardly curved resilient fingers formed integrally with said sleeve portion and extending from the inner end of said slot, a pair of lateral arms formed integrally with said sleeve portion at either side of said slot, and a clamping bar formed integrally with the outer end of each arm and having inturned inner ends, whereby said ball may be yieldably held by said fingers and said inner ends of said bars.

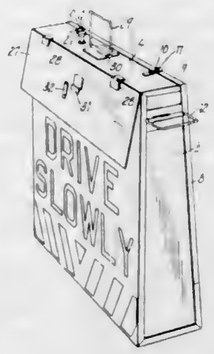
2,612,547
ROTATIONAL ORIENTATION APPARATUS
Charles W. Johnstone and Walter N. Dean, Washington, D. C., assignors to the United States of America as represented by the Secretary of the Navy
Application October 24, 1945, Serial No. 624,296
17 Claims. (Cl. 177—311)

3. Apparatus for the orientation of rotatable objects comprising, a plurality of transformer means each associated with a respective one of a plurality of objects rotatable with respect to each other, said plurality of transformer means each generating at least two alternating voltages the amplitudes of which vary sinusoidally through 360 electrical degrees as each of said objects rotates through 360 mechanical degrees, means electrically connecting said plurality of transformer means combining each of at least two of said voltages generated by each of said plurality of transformers with a respective one of two of said voltages generated by another of said plurality of transformers, the arrangement of said electrical connecting means being such that interconnection exists between all of the



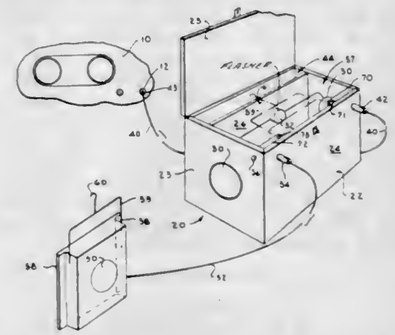
plurality of said transformer means, and means responsive to said combined voltages producing an indicating signal only when said combined voltages all are of substantially zero amplitude.

2,612,548
PORTABLE TRAFFIC SIGNAL AND THE LIKE
Earnest F. Swanson, Bristol, Ind.
Application June 28, 1949, Serial No. 101,753
4 Claims. (Cl. 177—329)



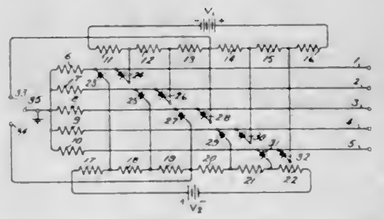
1. In a portable traffic signal and the like, a housing comprising a bottom, a top, a front wall, end walls and a rear wall, said front wall constituting an indicia panel and having a window adjacent the top thereof provided with a translucent closure, a lamp mounted within said housing in opposed relation to said window closure, a supplementary indicia panel hingedly mounted on said housing on a horizontal axis parallel to the plane of the front wall to be swung to erected position to constitute an extension for said front wall or to collapse forwardly over said window, the indicia on the supplementary panel being disposed forwardly in view when the panel is erected and rearwardly out of view when the panel is collapsed, and a bale-like supporting strut pivotally mounted on the top, said supplementary panel being provided with a keeper on its rear side with which said strut may be engaged when the panel is in erected position.

2,612,549
PORTABLE SAFETY AND TROUBLE LIGHT
Adam N. Anton, Dearborn, Mich.
Application July 29, 1950, Serial No. 176,700
2 Claims. (Cl. 177—329)



1. A safety and trouble light adapted to be used for an emergency light and comprising a housing having end walls, sidewalls, a bottom and a hinged top cover and also having a transverse wall forming a plurality of compartments therein, a red warning light mounted in each of the end walls of said housing and electrical circuit within said housing for said warning lights and including a flasher, a trouble light adapted to be moved to a position remote from said housing and provided with an extension wire, an electrical circuit for said trouble light carried by said housing, and extension wire for electrically connecting said circuits to an external source of electrical power, said extension wires being detachable from said circuit when said light is not in use, one of said compartments being adapted to receive the extension wire of said trouble light and having a pair of guides therein having complementary slots for slidably receiving said trouble light, said trouble light having a wire handle pivotally connected thereto and provided with a hook portion, said transverse wall being provided with a slot in the upper edge thereof for receiving said hook when said trouble light is in assembled position within said housing.

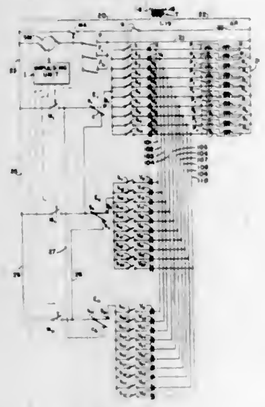
2,612,550
VOLTAGE LEVEL SELECTOR CIRCUIT
George T. Jacobi, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 27, 1950, Serial No. 187,109
1 Claim. (Cl. 177—353)



A voltage level selector circuit comprising n electric conductors, each of said conductors being provided with an output terminal at one end thereof and a connection to ground at the other end thereof, a resistor connected in series with each of said conductors, voltage dividing means for said conductors comprising a first and sec-

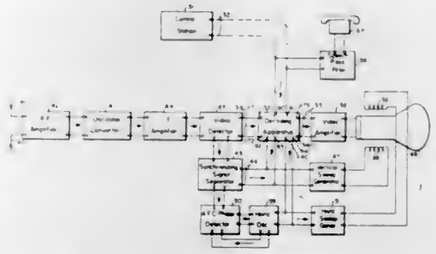
ond network of electric resistors in series, a first source of voltage connected across said first network and a second source of voltage connected across said second network, n pairs of unilateral impedance devices with each pair being connected to a different one of said conductors, one of each pair of said devices being connected to a different point in said first network and the other of each pair being connected to a corresponding point of opposite polarity in said second network, a first source of input signal voltage connected to one of the impedance device connection points on said first network, a second source of input signal voltage connected to the corresponding point in said second network, and means to vary with time the input signals to provide different voltage levels at said output terminals of said conductors.

2,612,551
PAGING SYSTEM
John E. Kreiner, Palatine, Ill., assignor to Edwards Company, Inc., Norwalk, Conn., a corporation of New York
Continuation of application Serial No. 78,657, February 26, 1949. This application April 7, 1951, Serial No. 219,834
9 Claims. (Cl. 177—353)



1. In an electrically-operated paging system for selectively producing cyclically signalling code symbols and for producing one or more of the selected code symbols during each cycle of operation of the system, a plurality of groups of parallel circuits with the groups thereof electrically connected at one end of each through respective normally open group-selector switches to the respective contacts of a means operating in recurring cycles to effect make-and-break at said contacts in sequence whereby to activate said groups in sequence during each cycle upon closure of all of said group-selector switches, each of the latter having a normally closed back contact at which a circuit remains closed if the selector switch is not actuated, said back contacts being connected respectively to said first-mentioned contacts with the connection from the back contact of any one group-selector switch leading to a contact other than that to which said group-selector switch is connected whereby when all of said group-selector switches are closed and the circuits at their respective back contacts are opened each code symbol is produced once, and all of them in sequence, for each cycle and when one or more but not all of said group-selector switches is in open position to effect circuit closure at its back contact, the code symbol produced as the result of a closed selector switch is repeated during each cycle of said system.

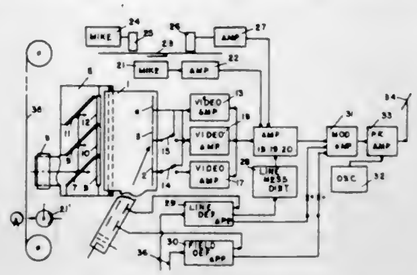
2,612,552
SUBSCRIPTION TYPE SIGNALING SYSTEM
Francis W. Crotty, Elmwood Park, and Erwin M. Roschke, Broadview, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Application June 10, 1949, Serial No. 98,218
11 Claims. (Cl. 178—5.1)



2. A subscription type of television system comprising, in combination: a video-frequency signal generator; a scanning system for controlling said generator to develop during recurrent trace intervals video-frequency signals representing a scanned subject and having a predetermined maximum amplitude-range and including a timing-signal generator for developing during interposed intervals timing signals normally having a fixed amplitude with respect to said range; a mixer device coupled to said video-frequency generator and to said scanning system for producing a composite television signal which includes in alternation said video-frequency signals and said timing signals; coding apparatus coupled to said mixer device and controlled by said scanning system for developing a coding signal to alter the amplitude relation between said range and the amplitude of said timing signals during spaced time intervals only thereby to code said composite signal; a key-signal generator controlled by said scanning system for developing a key signal indicating the times of occurrence of said spaced time intervals; a subscriber receiver including an image-reproducing device and an associated scanning system; means for radiating said coded composite signal to said receiver; a line circuit coupled to said key-signal generator and extending to said receiver for supplying said key signal to said receiver; and decoding apparatus included in said receiver and responsive to said key signal to develop a decoding signal which acts with said coded composite signal to cause said reproducing device and its scanning system to trace an image of said scanned subject.

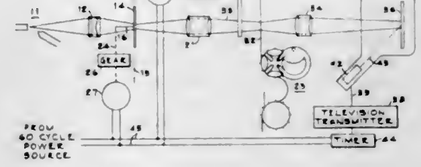
2,612,553
TELEVISION SYSTEM
John H. Homrighous, Oak Park, Ill.
Application December 27, 1947, Serial No. 794,188
43 Claims. (Cl. 178—5.2)

1. In a color television system, means including a first cathode ray device with a first adjustable member to concurrently produce a first, second and third image of a scene within the view of the device, each of the said images representative of a different color in said scene, means including a second cathode ray device with a second adjustable member controlled by said first member to concurrently produce a fourth, fifth and sixth image of said scene representative respectively of the same areas and the same colors as said first, second and third images, and means associated with said devices including a



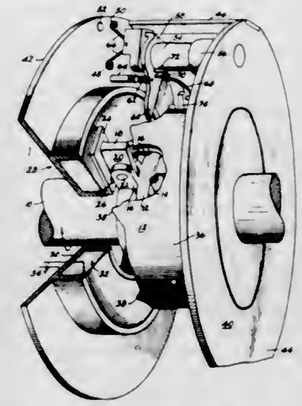
first saw tooth generator and a second saw tooth generator to scan the said images in said first device concurrently with the said images in said second device to produce two groups of picture signals each representative of different color components of said scene.

2,612,554
FILM PROJECTOR FOR TELEVISION
Robert V. Anderson, Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application February 18, 1949, Serial No. 77,100
9 Claims. (Cl. 178—7.2)



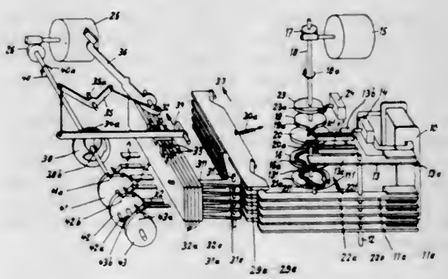
1. In a television system wherein photographic images recorded on a film strip are converted to television signals, a cathode ray tube provided with a light sensitive screen, means for scanning said light sensitive screen with an electron beam, an intermittent mechanism for intermittently advancing said film strip, a light source, means for projecting light derived from said source through said film strip onto said light sensitive screen, said means including light scanning means interposed between said light source and said light sensitive screen provided with apertures through which successive bands of light narrower than the height of said light sensitive screen are caused to traverse said screen at a rate equal to the vertical scanning rate of said cathode ray beam, means for intermittently interrupting the light so projected on said light sensitive screen, means for phasing said light interrupting means and said light scanning means relative to each other so that the light impinging on said light sensitive screen is interrupted during the latter portion of traverse by one of said successive light bands and during the first portion of traverse by the next succeeding light band.

2,612,555
TELEGRAPH SELECTOR MECHANISM
Russell C. Kinsman, Collinsville, and Thorne Perry, Glastonbury, Conn., assignors to Gray Research and Development Company, Inc., a corporation of Connecticut
Application October 17, 1951, Serial No. 251,726
13 Claims. (Cl. 178—33)



18. A telegraph selector comprising a frame, an electromagnet carried by said frame having a radial pole and a winding adapted to be energized by an incoming signal, an armature providing an abutment rotatable about a first axis common to said pole and pivoted about a second axis transversely disposed with respect to the first, armature advancing means carried by said frame for intermittently shifting said armature towards said pole, a plurality of driven members movably carried by said frame in a path traversed by said abutment, and a plurality of switches carried by said frame actuated by said driven members respectively.

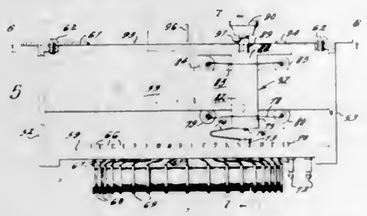
2,612,556
TRANSLATING APPARATUS FOR ELECTRIC SIGNAL PULSE COMBINATIONS
Otto Moser, Berne, Switzerland
Application December 7, 1951, Serial No. 260,522
In Switzerland December 9, 1950
10 Claims. (Cl. 178—33)



2. Apparatus for translating electric signal pulse combinations, particularly for teletypewriters, printing telegraphs and the like, comprising movable printing-type carriers to be selectively actuated in accordance with respectively different pulse combinations received, a pulse-responsive electromagnet having a number of armature members corresponding to the number of elements of the pulse combinations, said members being individually movable by said magnet and

having respective feeler means, a revolvable control shaft having a number of control discs for controlling the movement of said members, said control discs having respective curved grooves with pertaining entrance openings peripherally displaced relative to each other, drive means connected with said control shaft for revolving it during reception of a pulse combination so that said feeler means of selected armature members enter through the entrance openings into the groove of the respective correlated control discs depending upon the state of excitation of said magnet when each feeler means registers with the correlated entrance opening, said groove of each disc being engageable with said feeler means of the correlated armature member to impart a reciprocating working stroke to said member, a stack of individually displaceable selector bars each being linked with one of said respective armature members to be displaced by said stroke, movable control structures linked with said respective type carriers and engageable with all said selector bars of said stack to selectively move into operative position depending upon the displacement combination of said bars, a revolvable drive shaft operative upon receipt of a signal pulse combination and having curve discs engageable with said control structures only when said structures are individually in said operative position for then displacing one of said structures to actuate the pertaining one of said type carriers.

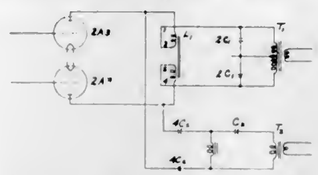
2,612,557
VARIABLE RESISTOR SIGNAL EQUALIZATION UNIT
Willard H. Turner, Los Angeles, Calif., assignor to RKO Radio Pictures, Incorporated, Los Angeles, Calif., a corporation of Delaware
Application July 29, 1949, Serial No. 107,584
8 Claims. (Cl. 178—44)



1. A variable resistor device, comprising a hollow rectangular frame, an intermediate track element attached to the ends of said frame and spaced from the sides thereof, a plurality of resistor elements mounted on one side of said frame, a plurality of serially arranged contact elements connecting with said resistor elements, a slider body element, resilient wheeled means for mounting said slider body element on said track element, and resilient contact means intermediate said slider body element and said contact elements.

2,612,558
CROSSOVER FILTER NETWORK
Paul W. Klipsch, Hope, Ark.
Application August 13, 1946, Serial No. 690,298
3 Claims. (Cl. 178—44)

1. A crossover network comprising low-pass and high-pass portions each associated with a matching transformer, said low-pass portion comprising a balanced two-winding inductor with one of said windings in each side of a balanced line, a one-half section filter with said inductor as input element and with equal series capacitors as terminating element, said one-half section filter being connected to one of said matching transformers with high shunt inductance to minimize its exciting current, a con-



nection between the midpoint of said series capacitors and the midpoint of the primary of said transformer, said high-pass portion comprising architrave capacitors and at least one pillar inductor and terminated by the other of said matching transformers with low leakage inductance.

2,612,559
SYSTEM OF TRANSMISSION BY WAVE GUIDES
Marc F. G. Jouguet, Orsay, France, assignor to Compagnie Industrielle des Telephones, Paris, France, a corporation of France
Application October 20, 1947, Serial No. 780,885
In France March 4, 1947
2 Claims. (Cl. 178—44)



1. In a hollow-pipe type wave guide having a circular cross-section of diameter d and adapted to propagate TE_0 electromagnetic waves having a wave length λ in free space, two portions of rectilinear wave-guides, and one kneed portion of guide arranged between said rectilinear portions, the knee of said kneed portion of guide forming an angle multiple of

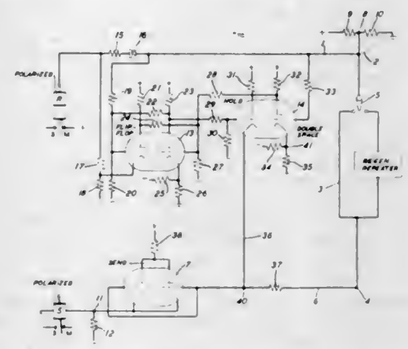
$$310\times\frac{\lambda}{d}$$

degrees, λ and d being expressed with any same unit.

2,612,560
ELECTRONIC TELEGRAPH HUB TYPE REPEATER
Wilton T. Rea, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 31, 1949, Serial No. 113,420
5 Claims. (Cl. 178—73)

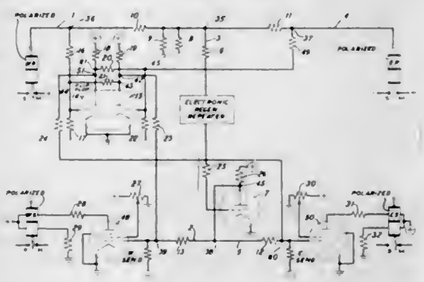
3. A hub type telegraph repeater having a receiving leg and a sending leg connected to a common hub, a control circuit interconnecting said legs in said repeater, said control circuit having two space discharge devices interconnected to form a flip-flop circuit, a space discharge double space tube and a space discharge hold tube, the input of said hold tube having a control connection from the output of said flip-flop circuit, the output of said double space tube having a control connection to an input of one of said

tubes in said flip-flop circuit, and a cathode on said hold tube directly connected to said sending leg to control transmission through said



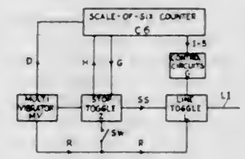
sending leg while presenting a substantially open circuit for one signaling condition through said leg.

2,612,561
HALF-DUPLEX TELEGRAPH REPEATER
Wilton T. Rea, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 25, 1949, Serial No. 123,365
7 Claims. (Cl. 178—73)



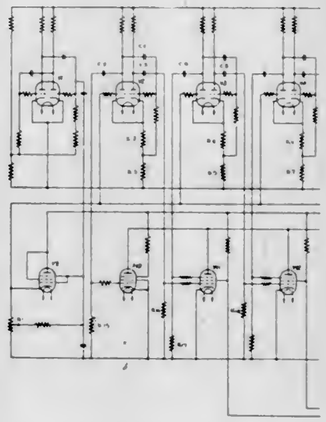
1. In a half-duplex direct-current telegraph repeater system, a first telegraph repeater, a second telegraph repeater, a receiving leg and a sending leg in each of said repeaters, a common branch, a regenerative repeater in said branch, said legs connected to said branch, a first operable telegraph communication signaling path, extending through said receiving leg in said first repeater, through said common branch and through said sending leg in said second repeater establishable at a first time, a second operable telegraph communication signaling path extending through said receiving leg in said second repeater through said common branch and through said sending leg in said first repeater establishable at a second time, a circuit common to said first and to said second repeaters, said control circuit including space discharge devices for blocking said sending leg of said first repeater and said sending leg of said second repeater at said first and said second times respectively, said space discharge devices comprising a flip-flop circuit, said circuit having an individual input connection to each of said receiving legs and an individual output connection to each of said sending legs.

2,612,562
TELEGRAPH DISTRIBUTOR
George Thomas Baker, Buckinghamshire, England, assignor to British Telecommunications Research Limited, Taplow, Buckinghamshire, England, a British company
Application June 10, 1949, Serial No. 98,193
In Great Britain June 14, 1948
12 Claims. (Cl. 178—79)



1. In a telegraph distributor, a pulse source, a transmitting device, means for feeding pulses from said source over one path to said transmitting device, means for feeding pulses from said source over a second path to said transmitting device, a plurality of control circuits associated with said second path, means for simultaneously conditioning said control circuits in accordance with the elements of a character to be transmitted, an electronic counter included in said second path for delivering said pulses successively to said control circuits and means in said control circuits for determining in dependence upon the condition thereof which of said successive pulses are to pass therethrough by said transmitting device to enable said transmitting device to be influenced solely by pulses fed over one path to transmit one kind of signal and jointly by pulses fed over both paths to transmit another kind of signals.

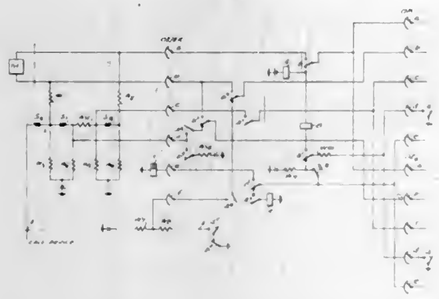
2,612,563
TELEGRAPH DISTRIBUTOR
Gordon Taylor Dain, Buckinghamshire, England, assignor to British Telecommunications Research Limited, Taplow, Buckinghamshire, England, a British company
Application June 10, 1949, Serial No. 98,221
In Great Britain June 14, 1948
15 Claims. (Cl. 178—79)



1. In a telegraph distributor, a transmitting relay, a plurality of control circuits for control-

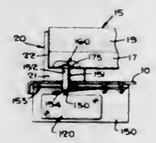
ling the operation of said transmitting relay and each including a thermionic tube having at least a cathode, a control grid, a screen grid, a suppressor grid and an anode, a plurality of leads for simultaneously applying to the screen grids of said thermionic tubes one of two distinctive potentials depending on the elements of the message signal to be transmitted, a plurality of trigger circuits, means generating a sawtooth triggering waveform for application in common to said triggering circuits, means for biasing said trigger circuits to cause the successive operation of said trigger circuits in response to the common application thereto of said sawtooth triggering waveform, means responsive to the operation of each trigger circuit for transmitting a pulse to the control grid of the tube in the associated control circuit, the thermionic tube in each of said control circuits in response to said pulse of one polarity transmitted to the control grid thereof and in response to one distinctive potential applied to the screen grid over the associated one of said leads being rendered conductive to cause said transmitting relay to transmit a marking signal and being maintained nonconductive in response to said pulse of one polarity transmitted to the control grid thereof and in response to the other distinctive potential applied to the screen grid over the associated one of said leads to cause said transmitting relay to transmit a spacing signal.

2,612,564
COMBINED LINE FINDER FINAL SELECTOR CIRCUIT
Roelof M. M. Oberman, The Hague, Netherlands
Application July 30, 1947, Serial No. 767,526
In the Netherlands June 5, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires June 5, 1966
4 Claims. (Cl. 179—18)



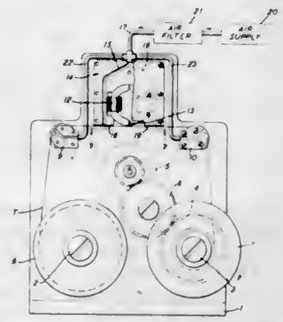
1. An automatic transmission system having selecting and finding switches, comprising in combination, a group selector including a plurality of banks each having a plurality of contacts; a second line finder including a plurality of banks each having a plurality of contacts, said contacts of each bank except one of said group selector being interconnected, respectively, with said contacts of each bank except one of said second line finder, one of said interconnected contact banks being grounded when a call is made; a switch adapted to act in any of the capacities as a first line finder and as a final selector and including a plurality of banks of contacts and wipers engaging said banks, respectively; a first relay connected to said one of said interconnected contacts in one of said banks of said group selector and said second line finder so as to be energized upon the grounding thereof, said first relay having an armature connecting one of said wipers of said switch to the contacts of said bank of said group selector which are not interconnected with any contact of said banks of said second line finder, and another armature connecting another one of said wipers of said switch to the contacts of said bank of said second line finder which are not interconnected with any contact of said banks of said group selector; a second relay connected in series to said first relay and operated upon removing the ground from said one of the interconnected contacts of said one of said banks of said group selector and said second line finder; and a plurality of armatures actuated by said second relay and connecting, respectively, at least a further one of said wipers of said switch to the contacts of at least one of said contact banks of said group selector which are interconnected, respectively, with said contacts of said banks of said second line finder, whereby in the event of a call being made, said interconnected contacts in said one of said banks of said group selector and said second line finder are grounded and said first relay is energized thereby actuating said armatures thereof and connecting said other one of said wipers of said switch to the contacts of said banks of said second line finder which are not interconnected with any contacts of said group selector, and said one wiper of said switch to the contacts of said group selector which are not interconnected with any contacts of said second line finder, and then the ground is removed from said one of the interconnected contacts of said group selector and said second line finder so that said second relay operates and actuates said armatures thereof connecting at least said further one of said wipers of said switch to the contacts of at least one of said contact banks of said second line finder interconnected with the contacts of a bank of said group selector.

2,612,565
SAFETY DEVICE FOR PREVENTING ACCIDENTAL ERASING OR DOUBLE RECORDING ON MAGNETIC RECORD TAPE
Herman S. Heller, West Los Angeles, Calif.
Application May 24, 1948, Serial No. 28,834
3 Claims. (Cl. 179—100.2)



1. In a magnetic sound recording and reproducing machine having a quick detachable record magazine receivable in an operative position thereon, the combination of erasing and reproducing electromagnets adapted for coaction with a magnetic sound record carried by said magazine, electric circuits for said electromagnets, a decommissioning switch means on said machine for the circuit of said erasing electromagnets, and a readily displaceable switch actuating element on said magazine adapted when undisplaced to engage and actuate said switch means as the magazine is mounted in operative position on said machine, said displaceable element when displaced avoiding operative engagement with said switch means.

2,612,566
MAGNETIC RECORDING AND REPRODUCING SYSTEM
John R. Anderson, Berkeley Heights, N. J., and Arthur C. Keller, Bronxville, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 5, 1951, Serial No. 229,974
7 Claims. (Cl. 179—100.2)



1. In a magnetic recording and reproducing system, a magnetic head, a magnetic record member cooperating therewith, said head comprising a core having pole-pieces which converge to form a gap facing said record member, means for maintaining a fixed spacing between said record member and said core comprising a fluid conduit in said head, said conduit terminating in a flange member positioned between said record member and said core at said gap, and means for producing a flow of fluid between said flange and said record member.

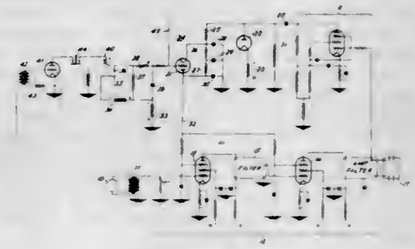
2,612,567
TRANSCONDUCTOR EMPLOYING FIELD CONTROLLED SEMICONDUCTOR
Otmar Michael Stuetzer, Dayton, Ohio
Application October 4, 1949, Serial No. 119,541
2 Claims. (Cl. 179—171)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A transconductive device comprising a thin walled tube of insulating material, a pile in said tube consisting of alternate metal particles and discs of semiconductive material, each metal particle being in electrical contact with each disc adjacent thereto whereby said particles and discs are in series conductive relationship, means for making electrical connections to the ends of said pile, and a control electrode consisting of a metallic layer on the outside of said tube and coextensive with said pile.

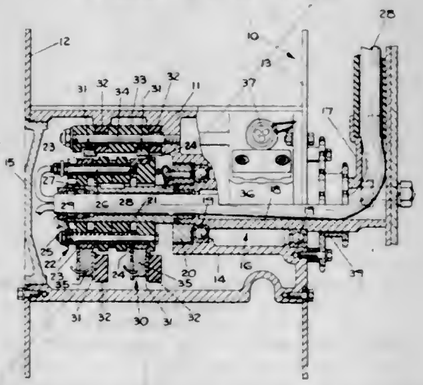
2. Apparatus as claimed in claim 1 in which an output circuit comprising a load impedance and a source of direct potential is connected between the ends of said pile and in which a source of signal and a biasing means is connected between said control electrode and one end of said pile.

2,612,568
AUTOMATIC GAIN CONTROL SYSTEM
William B. Hemphill, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application November 7, 1946, Serial No. 708,331
8 Claims. (Cl. 179—171)



1. An automatic gain-control arrangement for a seismic-signal amplifier comprising a rectifier responsive to the seismic signal in said amplifier to supply a direct-current biasing voltage for one or more stages of the amplifier, means for applying said direct-current voltage to said stages including a smoothing network in circuit with said rectifier, an electronic tube whose anode-cathode resistance affects the time constant of said network, and means for varying said resistance to change the speed of response of said gain-control system as a predetermined function of time and independently of signal amplitude comprising a resistance-reactance network in the input circuit of said tube, a source of fixed direct-current voltage, and switching means operable to include said source in circuit with said resistance-reactance network.

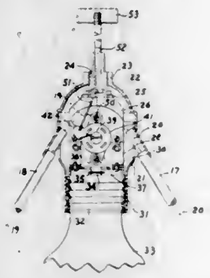
2,612,569
ELECTRIC CABLE REEL
Sterling C. Moon, Worthington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application December 29, 1948, Serial No. 67,975
1 Claim. (Cl. 191—12.2)



An electric cable reel including a supporting bracket having an arm supported only at one end providing a hollow cantilever support, a cable drum having a generally hollow enclosing cylindrical portion with outwardly extending end flanges and adapted to receive a coiled cable, spaced apart bearing means carried at axially spaced positions on said cantilever and support-

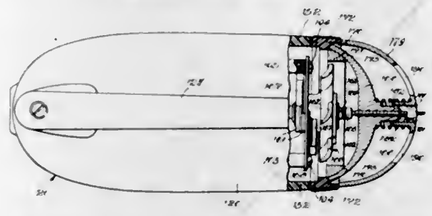
ing said cable drum for rotation on said cantilever arm, said bearing means being located entirely on one side of a plane through the center of said cylinder perpendicular to its axis and constituting the supporting bearing means for said drum, said cantilever arm having a free end portion extending beyond said bearing means and entirely within the enclosure of said cylindrical portion of said cable drum, insulating means mounting spaced stationary conductor rings on said free end of said arm, cable means extending through said hollow cantilever support and connected to said stationary conductor rings, spaced brushes carried within said cylindrical portion of said cable drum and having sliding contact with said stationary conductor rings, and ring insulating means supporting said brushes, said ring means having direct bearing centering contact at spaced points of its periphery with the interior of said cylindrical portion of said cable drum.

2,612,570
LAMP SWITCH
Lawrence M. Patrick, Detroit, Mich.
Application August 4, 1950, Serial No. 177,630
2 Claims. (Cl. 200—51.16)



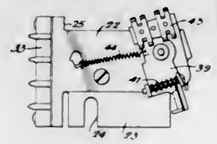
1. In combination, a switch housing; an insulating supporting block on said housing; a pair of spaced apart terminals mounted on said block; a shaft extending outwardly from said block; a rotatable metallic contact member rotatably mounted on said shaft; legs projecting outwardly from said contact member adapted upon rotation of said contact member for moving into and out of engagement with said terminals for making and breaking a circuit therethrough; a rotatable actuating disk, rockably mounted on said shaft; a plurality of spaced apart openings formed in said actuating disk; a pair of spaced apart lugs extending outwardly from one face of said metallic member and engageable in said openings; a spring on said shaft normally urging said actuating disk into position for receiving said lugs in said openings, said actuating disk, upon rocking in one direction, effecting a rotating of said metallic disk a predetermined distance and upon rocking in the opposite direction for riding over said lugs against the compression of said spring; a tongue projecting outwardly from said actuating disk; a plunger extending outwardly from said housing; a rod connecting said tongue with said plunger and adapted upon inward movement of said plunger for rocking said actuating disk in a direction to move said metallic disk, one end of said spring being connected to said tongue and normally maintaining said actuated disk rocked to a position for retaining said plunger in outwardly moved position, said rod being inclined to the axis of said plunger.

2,612,571
POWER UNIT AND GOVERNOR FOR HOUSEHOLD FOOD MIXER
William F. Bisley, Oak Park, Ill.
Original application June 20, 1947, Serial No. 755,995. Divided and this application May 12, 1948, Serial No. 26,650
7 Claims. (Cl. 200—80)



1. A speed control for a food mixer comprising a body adapted to be mounted on the end of a shaft for rotation therewith about a predetermined axis and carrying a centrifugally influenced switch and a control for the switch having a movable member located at the axis of rotation, a yoke having a central element engaging said movable member at the axis of rotation, a rotary speed adjustment element having cams thereon engaged at the ends by the arms of the yoke to move the yoke in an axial direction and adjust the movable member when the speed adjustment element is rotated, means for supporting said central element at said axis of rotation, and means for supporting the arms of the yoke against rotation.

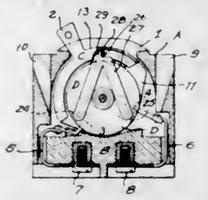
2,612,572
MAGNETIC CONTROL MECHANISM
Benjamin L. Binford, Chicago, Ill., assignor to Magnetrol, Inc., Chicago, Ill., a corporation of Illinois
Application October 3, 1946, Serial No. 701,017
2 Claims. (Cl. 200—87)



1. Magnetic control mechanism comprising a non-magnetic frame having a terminal block at one end and having one side formed with an offset skirt to fit over the other side of an underlying mechanism when the frames are stacked in reverse position, means in the central part of the frame to fit over and secure the frame to a tube, an arm pivoted at the other end of the frame, a magnet carried by the free end of the arm for movement toward and away from the tube, a bracket connected to the arm overlying one side of the frame, a switch carried by the bracket, and flexible connections from the terminal block to the switch.

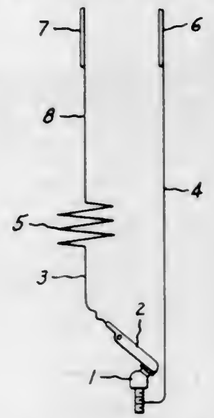
2,612,573
CIRCUIT CONTROLLING DEVICE
Albert B. Rypinski, Laurelton, N. Y., assignor to Metropolitan Device Corporation, Brooklyn, N. Y., a corporation of New York
Application June 7, 1947, Serial No. 753,193
3 Claims. (Cl. 200—88)

1. In a circuit controlling device of the kind described, the combination comprising a movable switch element, spaced switch contacts carried by the switch element, a bimetallic element carried by the switch element, connected across the switch contacts and having a detent-engaging end section movable with respect to the switch element, bias means for moving the switch element in one direction, a detent positioned to retain the switch element against movement under the action of said bias means when engaged



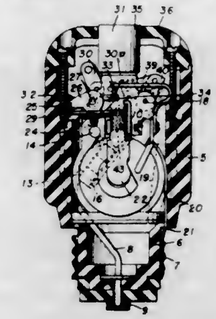
by the detent-engaging end section of the bimetallic element, and a magnetically attracted armature pivotally mounted on the switch element and positioned to be forcibly attracted to and strike the detent-engaging end section of the bimetallic element in a direction to release the bimetallic element from the detent upon a sudden rise in current flowing through the bimetallic element.

2,612,574
CIRCUIT RESTORER
Bryce W. Wyman, Havertown, Pa., assignor to General Electric Company, a corporation of New York
Application April 6, 1948, Serial No. 19,280
5 Claims. (Cl. 200—89)



1. In an electric circuit reclosing device, relatively movable interrupting contacts, electromagnetic means having a coil and an armature, said armature being operably related by a lost motion connection with a movable one of said contacts and being responsive to predetermined fault current in said coil for imparting opening movement to said movable one of said contacts, a timing mechanism including a ratchet wheel having a smooth and notched portion about its periphery, an opening pawl normally disposed to engage a smooth portion of said ratchet wheel, a connecting member directly attaching said pawl with said armature, said pawl and armature being movable in response to predetermined energization of said coil, means for closing said contacts, a closing pawl, a second connecting member directly connecting said armature with said closing pawl, said closing pawl being engageable with a notched portion of said ratchet wheel after completion of a circuit interrupting operation to delay closing of said contacts, a notched portion of said ratchet wheel being engageable by said opening pawl after a predetermined advancement of said ratchet wheel to render said opening pawl effective to delay opening movement of said armature.

2,612,575
RESETTING FUSE PLUG
Louis C. Ondrejca and Joseph F. Ondrejca, Orefield, Pa., assignors of one-third to Francis Ondrejca, Orefield, Pa.
Application June 13, 1947, Serial No. 754,412
3 Claims. (Cl. 200—106)

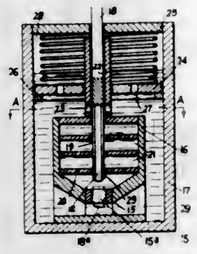


1. A resetting fuse plug comprising a hollow body having a pair of contacts at its inner end to provide a circuit connection with an electrical socket, an insulated body removably positioned in the hollow body, and an automatic circuit breaker carried by the body and comprising a pair of stationary contacts and a movable contact movable into and out of engagement therewith, spring means biasing the movable contact to an open position, a trip device holding the movable contact in closed position and including a rockable shaft having a locking notch, a push button operated resetting toggle member having a dog engageable with the notch for locking the shaft against movement, means connecting the toggle member to the movable contact, and electrical means including an electromagnet having an armature with an offset portion engageable with said rockable shaft, said electromagnet included in the circuit and responsive to an overload therein to operate said rockable shaft to release said toggle member thereby effecting opening of said movable contact.

2,612,576
ELECTRIC CIRCUIT BREAKER
Emil Lange, Paris, France
Application February 24, 1948, Serial No. 10,339
In France June 12, 1946
8 Claims. (Cl. 200—150)

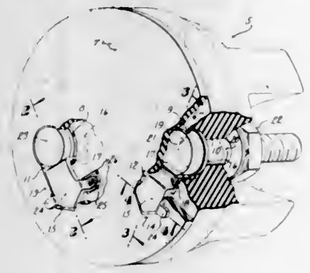
1. An electric circuit breaker of the kind in which the arc is extinguished by at least one current of quenching medium produced by the arc itself, comprising an arc chamber, a fixed perforated electric contact in a wall of said arc chamber, a movable electric contact having one end capable of moving within said arc chamber into and out of contact with said fixed contact, a counter-pressure chamber surrounding said arc chamber, a quenching medium at least partially filling said arc chamber and said counter-pressure chamber, and at least one of the members

which form said counter-pressure chamber being displaceable by excess pressure in said quenching medium in said arc chamber and said counter-pressure chamber whereby under excess pressure the internal volume of said counter-



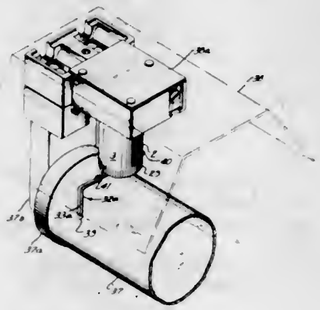
pressure chamber is increased, the arrangement being such that the counter-pressure of the quenching medium in the counter-pressure chamber produces a corresponding accumulation of pressure in the quenching medium in the arc chamber and the arc is compressed.

2,612,577
TERMINAL AND CONTACT CONSTRUCTION FOR ELECTRIC SWITCHES
Edward N. Jacobi, Milwaukee, Wis., assignor to Briggs & Stratton Corporation, Milwaukee, Wis., a corporation of Delaware
Application November 9, 1949, Serial No. 126,356
6 Claims. (Cl. 200—166)



6. In an electric switch: a terminal head having a flat surface and having a cavity opening to said flat surface and a hole leading from the bottom of the cavity and extending through the terminal head; a disc of insulating material overlying and flatwise engaging said surface of the terminal head, said disc having a hole therethrough partly in line with and partly laterally offset from the hole in the terminal head; a stamped and formed sheet metal contact member having offset substantially parallel flat contact and attaching portions, the former occupying the offset portion of said hold in the disc and the latter being received in and overlying the bottom of the cavity in the terminal head and having a hole registering with the hole in the terminal head; a headed stud passing through said registering holes and secured to the terminal head with the underside of its head bearing against the attaching portion to hold the same against the bottom of the cavity in the terminal head and with the other end of the stud protruding from the terminal head to provide a terminal post; a contact portion on the head of the stud occupying the aligning portion of the hole in the insulating disc, the end surface of said contact portion on the head of the stud being flat and flush with the outer exposed surface of the disc; and lugs extending from the contact portion of said contact member and engaging the opposite sides of the disc to hold said contact portion with its outer face flush with the outer exposed face of the disc and to hold the disc against and assembled with the terminal head, whereby said contact portion of the stamped contact member and the contact portion on the head of the stud together constitute one stationary contact for the switch.

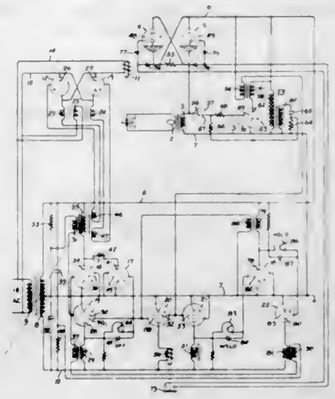
2,612,578
RESETTING ATTACHMENT FOR FLUORESCENT LAMP STARTERS
Lafe Stueland, Alameda, Calif.
Application July 30, 1949, Serial No. 107,779
6 Claims. (Cl. 200—172)



5. In a fluorescent lamp fixture having a socket for a lamp starter mounted therein, and a pair of sockets so mounted as to provide substantial obstruction of the starter by the lamp when rested therein, an attachment disposable over said starter and operable from a position laterally offset from the position of said lamp, said attachment comprising an elongated rod-like member pivotally mounted relative to said starter, an integral handle portion extending from said rod-like member, and a central laterally offset portion selectively movable into and out of engagement with said starter upon rotation of said handle portion.

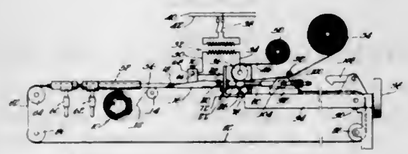
2,612,579
COORDINATION CONTROL CIRCUIT
Maurice E. Bivens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 29, 1950, Serial No. 187,442
9 Claims. (Cl. 219—4)

1. A control circuit comprising a transformer having a primary winding and a secondary winding, a pair of normally opened electrodes connected across said secondary winding, means including a resistor for energizing said primary winding with a source of alternating voltage to produce a limited current flow through said primary winding and for producing thereacross a voltage which is out of phase with the supply voltage, means responsive to said out of phase voltage for maintaining said limited current flow, means for closing said electrodes and thereby substantially eliminating said out of phase voltage, and means responsive to the substantial elimination of said out of phase voltage for by-



passing said resistor to cause substantially greater current flow in said primary winding.

2,612,580
WELDING METHOD AND APPARATUS
Raymond C. Andersen, Lombard, Ill., assignor to Chicago Metal Hose Corporation, Maywood, Ill., a corporation of Illinois
Application April 29, 1949, Serial No. 90,339
10 Claims. (Cl. 219—6)



1. The method of welding a metal tube from strip material by securing longitudinal juxtaposed edges thereof which comprises arranging an elongated cylindrical electrode in the tube, withdrawing an elongated filament electrode from a supply reservoir, engaging the outer surface of the tube to be welded against said filament electrode at a welding station, moving the tube and the elongated cylindrical electrode in a rectilinear path as a unit through said welding station with the filament electrode in engagement with the tubing, while passing current between the electrodes and while continuously pressing said filament electrode against said tube as the tube parts to be welded reach the welding station, and thereafter removing said filament electrode from contact with said tube.

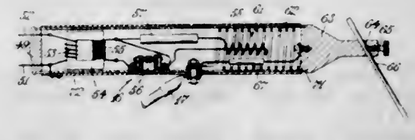
2,612,581
WELDING ROD
Harold Robinson, Somerville, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application February 11, 1950, Serial No. 143,779
5 Claims. (Cl. 219—8)

1. A composite welding rod comprising at least one element of aluminum and at least one element of copper, the several elements being uniformly and closely associated throughout the



length of the rod and the proportion of aluminum being at least 7.5% but not over 20% by weight.

2,612,582
COMBINED ARC WELDING ELECTRODE HOLDER AND HIGH-FREQUENCY GENERATOR
William Arnold Appleton, Wembley, England, assignor to Arc Manufacturing Company Limited, London, England
Application July 7, 1950, Serial No. 172,405
In Great Britain July 11, 1949
5 Claims. (Cl. 219—8)

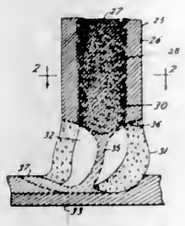


1. For use in electric arc welding, a welding electrode holder comprising a conducting end-piece, means for securing a conducting electrode to said end-piece in electrical connection therewith, an insulating container attached to the end-piece, a high voltage high-frequency generator within the insulating container; which generator comprises an iron-cored coupling transformer having primary and secondary windings, means for connecting the primary winding of said coupling transformer to a source of electrical energy at a lower voltage and a lower frequency, an air-cored voltage step-up transformer having primary and secondary windings, an oscillatory circuit comprising a spark-gap, a condenser and the primary winding of said air-cored transformer, means connecting the oscillatory circuit to the secondary winding of the coupling transformer to energize the oscillatory circuit, a tuning condenser, and means connecting said tuning condenser across said secondary winding of the air-cored transformer; insulated terminal means carried by the insulating container for the attachment of a connection from a source of welding current, means connecting said secondary winding between the end-piece and said terminal means, and a conducting screen around said insulating container.

2,612,583
ARC WELDING ROD AND METHOD OF PRODUCING SAME
Arthur A. Bernard, Chicago, Ill.
Application July 30, 1946, Serial No. 687,199
11 Claims. (Cl. 219—8)

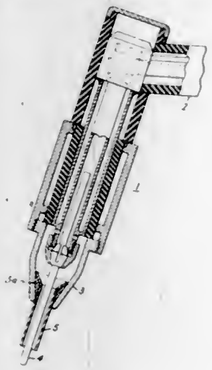
1. The method of producing welding rod including the steps of isolating the metal of the

upper half of a rimmed steel ingot, hot rolling the metal to produce rod stock, and cold working the rod stock to reduce its cross-sectional area in successive gradual stages to not substantially more than 25% of its initial cross-sectional area while maintaining the temperature of the steel below the detrimental point with respect to the arc-influencing effect of the cold working.



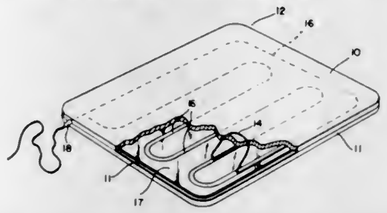
5. As a new article of manufacture, a welding electrode of rimmed steel reduced in cross-sectional area by cold working in stages, the reduction in each stage being not substantially greater than 20%, and the final cross-sectional area being not substantially more than 25% of the initial cross-sectional area, the steel being maintained below a temperature detrimental with respect to the arc-influencing effect of the cold working.

2,612,584
INERT GAS WELDING TORCH
John P. Morrissey, East Orange, N. J., assignor to General Electric Company, a corporation of New York
Application December 28, 1949, Serial No. 135,341
3 Claims. (Cl. 219—14)



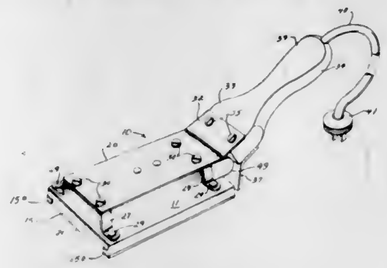
1. In an inert gas arc welding torch having a ceramic nozzle adapted to direct a gas flow about the arc and insulate the torch from the work to be welded and having an electrode extending through said ceramic nozzle from said torch, a heat resistant tube having an internal diameter larger than that of said electrode secured to said ceramic nozzle and extending concentric with said electrode, said tube having a plurality of holes in the wall thereof, each of said holes extending from the inner to the outer wall of said tube in the direction of the flow of the inert gas whereby a flow of inert gas is directed along the electrode towards the work to be welded and through said holes to cool said tube and prevent the oxidation thereof.

2,612,585
RADIANT HEATING PAD FOR THE FEET AND LOWER LIMBS
Bert P. McCann, Seattle, Wash.
Application May 1, 1950, Serial No. 159,181
4 Claims. (Cl. 219—19)



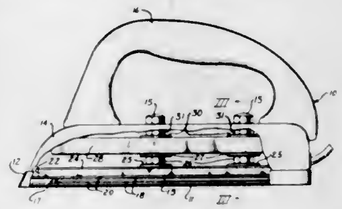
1. A radiant heating pad for the feet and lower limbs, comprising: a top layer and a bottom layer of durable sheet material having dielectric and water resistant properties, said top and bottom layer being fixedly secured together; an insulated, low temperature heating cable coiled between said layers to produce a temperature on the upper surface of said top layer within a range of temperatures comfortable to feet, resting on the pad, said cable having a single wire of such small gauge and being of such length that it cannot heat beyond a low designed maximum temperature; said bottom layer being configured to accept said heating cable to lie in a plane below said top layer; a cable connector positioned between said top layer and bottom layer and both ends of said cable being connected to said connector making a continuous panel coil; and a sheet of heat-reflective, metal foil on the upper surface of said bottom layer and pressed into the configurations in said bottom layer to lie below said heating cable.

2,612,586
ELECTRICALLY HEATED PAINT AND PAPER SOFTENING TOOL
Peter P. Berarducci, Plainville, and Albert L. Berarducci, Southington, Conn., assignors to B & L Tool & Machine Company, Plainville, Conn., a corporation of Connecticut
Application May 11, 1949, Serial No. 92,552
6 Claims. (Cl. 219—21)



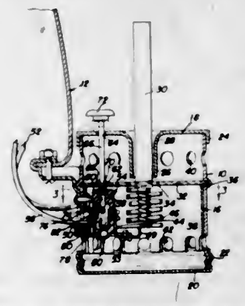
1. In a paint or paper softening tool, a casing having an electric heating means therein, a top supporting plate secured in spaced relation to the top of said casing, the space between said supporting plate and said casing being open at the sides of the tool, said supporting plate having an upwardly inclined flat end portion projecting outwardly of one end of said casing, a handle secured to the lower surface of said projecting portion in spaced relation to said casing, a thermostatic switch secured to the lower surface of said supporting plate, and conductors for connecting said heating means and said switch in series with a source of electric current, whereby said heating means may be controlled by the effects of heat radiation upon said thermostatic switch by said casing.

2,612,587
ELECTRIC FLATIRON
Jose Antonio Guerra, San Salvador, El Salvador
Application March 23, 1950, Serial No. 151,400
2 Claims. (Cl. 219—25)



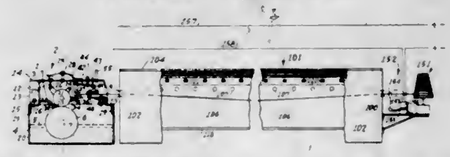
1. In an electric flat iron, a sheet metal sole plate, an upstanding post secured to said sole plate, an electrical resistance heating element apertured to receive said post and in extended surface engagement with said sole plate, a pressure plate apertured to receive said post and in co-extensive surface engagement with said heating element, means on said post for urging said pressure plate toward said sole plate, thereby to press the heating element into intimate heat exchange contact with the sole plate, a ballast weight carried by said post in spaced relation above said pressure plate said pressure plate and said ballast weight having specific heats substantially lower than said sole plate, whereby the flow of wasted heat to the pressure plate and the ballast weight is minimized, and a sheet of thermal insulation material interposed in the space between said weight and said pressure plate and of such thickness as to leave an insulating air space therebetween.

2,612,588
CIGARETTE LIGHTER
Walter F. Schilling, Los Angeles, Calif.
Application February 7, 1950, Serial No. 142,811
6 Claims. (Cl. 219—32)



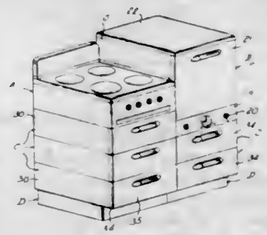
1. A cigarette lighter comprising a casing having ventilating means therein, a reentrant sleeve in the upper wall of said casing, a baffle permanently attached to said casing and disposed below the inner end of said sleeve in vertical spaced relation thereto, a bore in said baffle axially aligned with said sleeve, a heating sleeve element positioned below said baffle and axially aligned with said bore for heating the tip of a cigarette resting thereon, an elongated heating coil mounted co-axially of and about said heating element and located below the baffle for heating the adjacent air to cause convection currents for fanning the heated tip of the cigarette, means electrically connected to said heating element and said heating coil for energizing said heating element and said heating coil.

2,612,589
ELECTRICALLY HEATED DRYING OVEN FOR YARN IMPREGNATING MACHINES
Webster Jones, deceased, late of New York, N. Y., by Mildred Andrew Jones, administratrix, New York, N. Y., and John J. Heslin, Waltham, Mass., assignors to Chemo-Textiles, Inc., a corporation of Rhode Island
Application June 30, 1948, Serial No. 36,018
10 Claims. (Cl. 219—35)



1. In apparatus for impregnating yarns and the like of the type including means for contacting yarns with an impregnating liquid adapted to simultaneously impregnate a number of yarns supplying impregnated yarns to one end of a heating oven and yarn winding means at the other end of said oven, the improved form of oven for such apparatus comprising sides and a roof defining an inverted, open bottom trough, a number of longitudinally extending, vertically oriented fins in said trough dividing said trough into a number of parallel open bottom channels, and means for heating the interior of said trough, said fins being formed as strips of sheet material carried adjacent their upper margins by transversely extending rods passing through oversized holes formed in said strips.

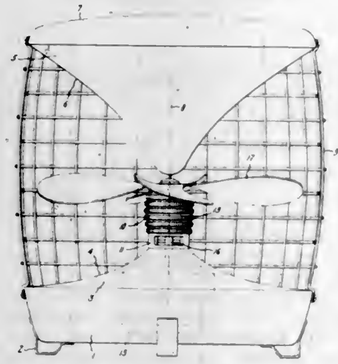
2,612,590
SECTIONAL RANGE
Stanley F. Lachowicz, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application March 8, 1950, Serial No. 148,449
1 Claim. (Cl. 219—35)



In a kitchen range, a plurality of removable and interchangeable basic units, each of said units being generally hexahedral in shape and provided with uninterrupted finished vertical side walls equally spaced apart and inwardly disposed frame portions, means disposed interiorly of the sides of the units for vertically aligning superposed units to provide the range with substantially uninterrupted side surfaces which are planar throughout, means disposed interiorly of the sides of the units for retaining the units in

aligned and superposed relationship, and fastening means extending between side by side units to prevent lateral separation thereof, each of said units being provided with a rear wall inset from the rear edges of the side walls thereof to provide vertically extending channels in the rear of the range of sufficient depth to house electrical connecting means extending between spaced apart units.

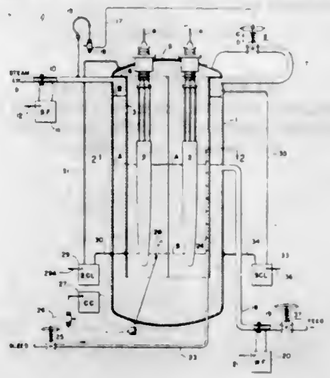
2,612,591
ELECTRIC HEATER
Donald L. McFarland, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application May 29, 1951, Serial No. 228,875
4 Claims. (Cl. 219—39)



4. An electric heater comprising a base, a lower upwardly facing annular convex reflector carried by the base, an upper downwardly facing annular convex reflector supported on the base in spaced relation to the lower reflector, said reflectors having a common vertical axis, an electrical heating unit positioned between said reflectors along the line of said common vertical axis, said reflecting surfaces being generated by rotating a parabola about said common vertical axis with its focal point on the periphery of said heating unit and its axis tilted upwardly at an angle to the horizontal, an electric motor supported on the base and fan blade means driven by the motor for effecting circulation of air inwardly along the surface of the lower reflector, over the heater unit and outwardly along the surface of the upper reflector.

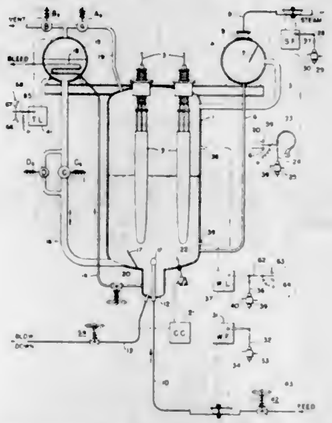
2,612,592
CONTROL SYSTEM FOR ELECTRIC STEAM GENERATORS
William L. Paulison, Jr., Ridgewood, and Harvey C. Mittendorf, East Orange, N. J.; said Paulison, Jr., assignor to Bailey Meter Company, a corporation of Delaware, and said Mittendorf assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application October 3, 1950, Serial No. 188,118
37 Claims. (Cl. 219—40)

3. The method of operating an electric steam generator of the type having two interconnected pressure chambers in one of which electric energy is dissipated in a water pool for vaporizing the water and the other chamber providing water storage, which includes, maintaining desired conductivity of the pool water in which the electrodes are immersed by controllably bleeding water from the pool, regulating extent of electrode immersion and thereby rate of vapor generation by transferring water between the



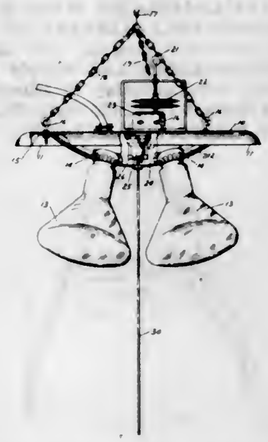
chambers, and maintaining the total amount of water in the two chambers substantially constant.

2,612,593
CONTROL SYSTEM FOR ELECTRIC STEAM GENERATORS
Harvey C. Mittendorf, East Orange, and William L. Paulison, Jr., Ridgewood, N. J.; said Mittendorf assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware, and said Paulison assignor to Bailey Meter Company, a corporation of Delaware
Application July 25, 1947, Serial No. 763,700
34 Claims. (Cl. 219—40)



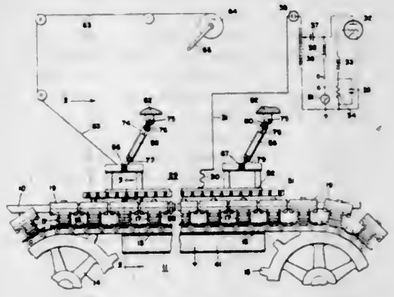
4. The method of controlling the operation of an electric steam generator of the type having two interconnected pressure chambers in one of which electric energy is dissipated in a water pool for vaporizing the water, which includes, feeding one of the chambers with water to form a pool in which the electrodes are immersed for vaporizing the water, determining the extent of immersion, obtaining a representation of the steam demand upon the unit, continuously determining the rate of supply of feed water to the unit, continuously utilizing the values of these three variables in controlling the rate of feeding of water to the unit, and transferring water from one chamber to another when at least one of the three variables reaches a predetermined value.

2,612,594
HEAT LAMP SAFETY FIXTURE FOR BROODERS
Milton V. Schubert, Jr., Billy E. Langohr, and Joseph B. Manago, Jr., Columbia City, and Lorin J. Badskey, North Manchester, Ind., assignors to LML Engineering & Manufacturing Corporation, Columbia City, Ind., a corporation of Indiana
Application January 26, 1952, Serial No. 268,452
4 Claims. (Cl. 219—45)



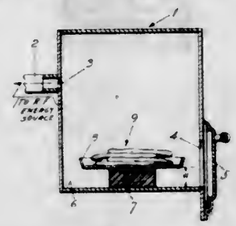
4. A brooder heater device normally suspendable in spaced relation above the floor comprising a heater unit; a member carrying the unit; an electric circuit including said unit; a tilting element carried by said member to project from its underside to cause the member when free to tilt to one side when said element rests on the floor; and a switch in said circuit and carried by said member, said switch being characterized by being normally in closed circuit condition when said member is suspended and going to open condition upon the tilting of said member.

2,612,595
ADJUSTABLE ELECTRODE ASSEMBLY FOR HIGH-FREQUENCY HEATING SYSTEMS
Henry R. Warren, Louisville, Ky., assignor to The Girdler Corporation, Louisville, Ky., a corporation of Delaware
Application February 12, 1948, Serial No. 7,888
18 Claims. (Cl. 219—47)



6. In a dielectric heating system having a flat platform for the support of work which is to be subjected to a high-frequency electric field, the combination of means including an electrode for applying a high-frequency field to said work, means suspending said electrode above and generally parallel to said platform, said suspending means including pivoted links of substantially equal length for mounting said electrode, means for effecting concurrent swinging movement of said links and of said electrode to change the spacing between it and said platform while maintaining said electrode substantially parallel to said platform thereby uniformly to change throughout the effective area of said electrode the intensity of the high-frequency electric field applied to the work.

2,612,596
MICROWAVE HEATING
Fritz A. Gross, Weston, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 18, 1947, Serial No. 729,237
6 Claims. (Cl. 219—47)



1. In combination, a metallic enclosure, means for radiating radio-frequency energy into the interior of said enclosure, a dielectric body in said enclosure substantially spaced from the walls thereof, and a coupler for causing differential coupling of said energy to said body in different portions thereof, said coupler being positioned between one enclosure wall and said body.

2,612,597
ILLUMINATED ELECTRIC OUTLET FIXTURE
Elwin W. Sherrard, Lincoln, Nebr.
Application September 8, 1947, Serial No. 772,640
11 Claims. (Cl. 240—2)



9. An electrical utility outlet device for use with an electrical attachment plug of the type having a plurality of laterally spaced parallel connector prongs projecting from the plug body; said outlet device comprising a housing having an opaque front wall containing a central aperture of restricted size, a socket in said housing spaced rearwardly from said opaque wall and aligned with said aperture, an electrical lamp insertable into said socket through said aperture, a removable closure for said aperture, said closure being formed of light transmitting material, said opaque wall having a plurality of apertures to receive the respective prongs of said attachment plug, said prong-receiving apertures being on opposite sides of said first aperture and substantially equidistant therefrom whereby the plug body covers said first aperture when its prongs are inserted into the prong-receiving ap-

ertures, and jacks in the housing beside said lamp and aligned with said prong-receiving apertures to make electrical connection with said prongs when same are advanced into the housing through said prong-receiving apertures.

2,612,598

FLASHLIGHT WITH H-SHAPED FRAME FORMING OPPOSED HOLDERS FOR DRY CELLS AND LAMP HEAD

Frank Berman, Pewaukee, Wis.

Application October 17, 1950, Serial No. 190,594
2 Claims. (Cl. 240—10.65)



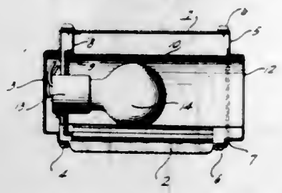
1. A lighting unit comprising, an H-shaped carriage having spaced side arms and a cross bar extended between said side arms, a bearing extrusion on the inner face of each side arm of the carriage near the upper ends thereof, a hollow rotor mounted on said bearing extrusions, a conductor ring in either end of the rotor engaged about said bearing extrusions, a breach in one of said rings, a lamp socket mounted in said rotor, electrical connections between said rings and said socket, a lamp in said socket directed in the same angular direction as said breach, an opening in the wall of the rotor adjacent said lamp, dry cells mounted between the side arms of the carriage below the cross bar thereof, and electrical connections between said dry cells and said rings.

2,612,599

PORTABLE BED LAMP WITH ADJUSTABLE SHUTTER

Theodore C. Matson, Long Beach, Roger N. Riewerts and Dale E. Mortensen, Bellflower, Calif.

Application February 18, 1949, Serial No. 77,126
1 Claim. (Cl. 240—11.2)



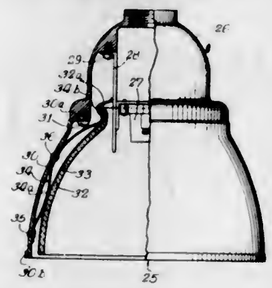
A portable bed lamp comprising a case formed of an integral strip of metal, the rear portion of the case being substantially rectangular in cross-section and the front portion of the case being semi-cylindrical, louvers extending longitudinally of the case and formed in the semi-cylindrical part of the case, a cap closing one end of said case, screws extending through the cap and into the case to secure the cap thereto, a ring partly closing the other end of said case, screws extending through the ring and into the case to removably hold the ring in position, a fixed transverse wall in said case positioned at one end of the case and adjacent said cap, said wall having a recessed bearing formed therein, a semi-cylindrical shutter within the case and movable over the louvers, one end of said shutter being journalled in said bearing, a cupped end closing the other end of said shutter and fixedly attached thereto, said cupped end extending through said ring and journalled therein, a lamp socket fixedly mounted in the transverse wall and projecting into one end of said shutter.

2,612,600

OPEN TYPE LUMINAIRE WITH EASILY REMOVABLE REFLECTOR

Edward H. Yonkers, Glencoe, Ill., assignor to Joslyn Manufacturing and Supply Company, Chicago, Ill., a corporation of Illinois

Application August 12, 1947, Serial No. 768,184
5 Claims. (Cl. 240—25)



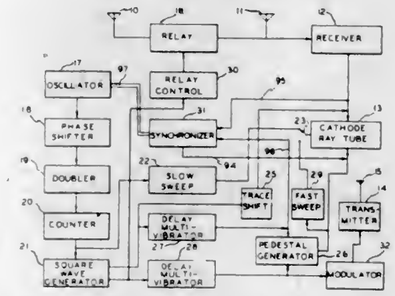
5. A lighting unit comprising, a rigid and generally bell-shaped housing, a reflector of frangible material mounted within said housing and having an annular flange at the upper end thereof, a plurality of resilient members disposed in spaced relation about the reflector between said reflector and said housing and attached to said housing at the lower end thereof for resiliently supporting said reflector in spaced relation to the inside of said housing, and hook-shaped portions on the upper ends of said resilient members for receiving said flange.

2,612,601

PULSE TRANSMITTER SYNCHRONIZING SYSTEM

Glenn H. Musselman, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application May 14, 1945, Serial No. 593,606
11 Claims. (Cl. 250—6)



1. A means for maintaining a recurrent series of pulse emissions from a local radio pulse transmitter in a known time relation with a similar re-

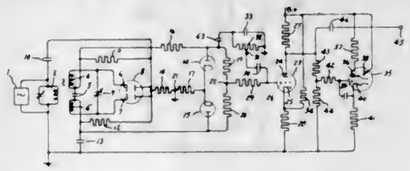
current series of pulse emissions from a remote transmitter, comprising a means at said local transmitter for generating a timing wave, means controlling the operation of said local transmitter in response to said timing wave, means receiving at said local transmitter the pulses emitted by said remote transmitter, an amplifying channel, means connecting the output of said receiving means to said amplifying channel, means also responsive to said timing wave for unblocking said amplifying channel at the proper instant to pass a portion of each of said received pulses, means averaging the amplitude of the output pulses from said amplifying channel, a reference voltage source, and means for varying the frequency of said timing wave in sense and amount according to the difference in values between said reference voltage and the average value of the output pulses from said amplifying channel.

2,612,602

NOISE SUPPRESSION CIRCUIT

Robert B. Dome, Geddes Township, Onondaga County, N. Y., assignor to General Electric Company, a corporation of New York

Application November 19, 1948, Serial No. 61,007
2 Claims. (Cl. 250—20)



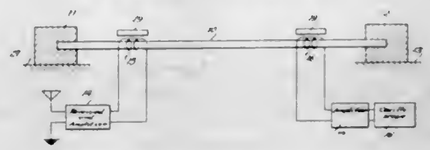
1. A noise suppression circuit for a translating network for frequency modulated carrier waves, comprising a balanced frequency discriminator network arranged to receive said carrier waves, said network having a pair of terminals and being arranged to produce signal voltages of a predetermined polarity with respect to a reference point, the output voltage on one terminal of said network varying equally and oppositely with respect to said reference point as compared to that on the other terminal in response to the frequency variation of said carrier waves, the difference of said voltages providing, over a range of frequencies, a signal voltage proportional to the frequency deviation of said carrier waves from a center frequency, a pair of unilateral conducting devices reversely connected in series across said network, each of said devices being poled to increase conduction in response to an increase in magnitude of the voltage at the terminal to which it is connected, a first pair of impedances connected in series across said network, a second pair of impedances connected in series from said reference point to the junction of said devices, whereby a unidirectional control voltage is developed between the junctions of the impedances in said two pairs, a cathode ray tuning device having an anode, a target electrode, and input electrodes, means for impressing said control voltage between said input electrodes, means energizing said cathode ray device for operation as an amplifier of said control voltage, a signal amplifier having an input circuit coupled to said network, means comprising a muting circuit for disabling said amplifier, and means utilizing amplified control voltage developed at the anode of said cathode ray device for inactivating said muting circuit in response to an increase in said control voltage above a predetermined value.

2,612,603

SIGNAL-TO-NOISE RATIO IN PULSE RECEPTION

Madison G. Nicholson, Jr., Snyder, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

Continuation of application Serial No. 605,691, July 18, 1945. This application December 15, 1951, Serial No. 261,779
9 Claims. (Cl. 250—20)



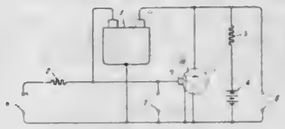
1. Apparatus for improving the signal-to-noise ratio in the reception of pulses transmitted with a predetermined substantially uniform periodicity comprising, in combination, a magnetostrictive member of elongated configuration having at least one reflecting end termination, a magnetostrictive wave induced in said member traveling a predetermined distance therein in the time interval between the initiation of successive ones of said pulses, means spaced from said one end termination by a whole multiple, including one, of one half of said distance for impressing magnetostrictive waves in said member corresponding to each pulse received, and means responsive to impressed and reflected waves in said member for producing output pulse voltages.

2,612,604

ELECTRONIC TIME DELAY CIRCUIT

Charles W. Clapp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application February 25, 1948, Serial No. 10,742
10 Claims. (Cl. 250—27)



1. In a time-delay circuit including a three-terminal voltage amplifier, a capacitor connected between the input and output terminals of the amplifier, said capacitor having an electrically conducting member secured thereto adjacent to and separated from its terminals, said conducting member being connected to the amplifier terminal common to both input and output.

2,612,605

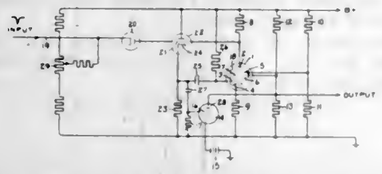
PULSE DELAY CIRCUIT

John E. Ranks, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

Application December 15, 1950, Serial No. 200,921
8 Claims. (Cl. 250—27)

1. In combination, a monostable circuit operable from an initial stable state to an unstable state in response to a triggering pulse and returning to the initial state automatically comprising an electron discharge device including a control electrode, said device generating a voltage wave in response to said trigger pulse, said generated wave having an inflection point occurring a given

time after the occurrence of said trigger pulse, but prior to return of said circuit to the initial state, means for differentiating said voltage to derive a control pulse at the instant of said in-



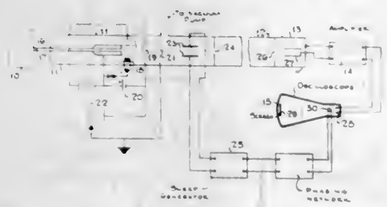
flection, and means for modifying operation of said monostable circuit comprising means for applying said control pulse to said control electrode.

2,612,606
ANTENNA EXCITATION SYSTEM
Robert Stephen Wehner, Hempstead, N. Y., assignor to Airborne Instruments Laboratory, Inc., Mineola, N. Y.
Application October 14, 1947, Serial No. 779,816
10 Claims. (Cl. 250—33)



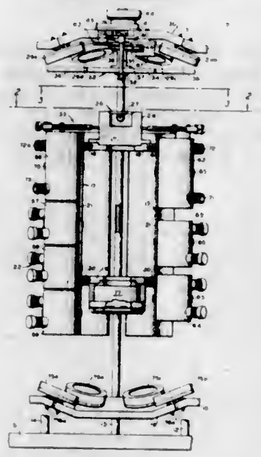
1. A broadband vertically polarized aircraft antenna system, comprising a vertical tail fin having an outer conductive surface portion extending upwardly from the fuselage of said aircraft, an excitation element mounted above and supported by said conductive portion, a coaxial transmission line having an inner and an outer conductor and extending from the interior of said aircraft through said conductive portion to the upper portion thereof, a tapered section forming a part of said excitation element and electrically connected to the inner conductor of said coaxial line.

2,612,607
MASS SPECTROMETER
William E. Stephens, Philadelphia, Pa.
Application April 5, 1947, Serial No. 739,681
1 Claim. (Cl. 250—41.9)



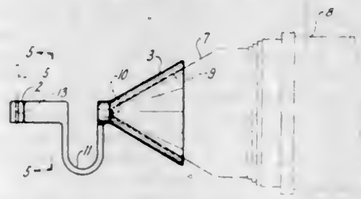
A mass spectrometer consisting of an elongated evacuated envelope, an inlet for the admission of a gas sample to said envelope, an electrical filament adjacent said inlet for ionizing the said gas sample, a first perforated plate spaced from said filament maintained at a negative potential whereby ions of the said gas sample are accelerated toward and through the perforation of the said perforated plate, a second perforated plate spaced from the first perforated plate, deflecting plates positioned between said first and second perforated plates maintained at periodically varying electrical potentials whereby said ions accelerated through the said first perforated plate are periodically caused to pass through the perforation of the said second perforated plate, and voltage sensitive ion collecting means spaced from said second perforated plate to collect ions passing through the said second perforated plate.

2,612,608
PHOTOMETRIC ANALYZER
Elmer C. Miller, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 6, 1950, Serial No. 147,979
17 Claims. (Cl. 250—43.5)



1. In a photometric analyzer, in combination, a radiation source, a radiation detector, reflecting means to form a plurality of radiation beams extending between said source and said detector, a plurality of cells disposed in the path of the respective radiation beams and adapted to hold a substance preferentially absorbing certain wave lengths of said radiation, and a rotatable shutter of opaque material disposed in the path of said radiation beams for selectively permitting passage of selected beams of radiation between said source and said detector while preventing the passage of other beams between said source and said detector.

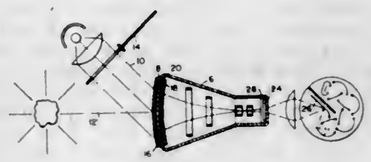
2,612,609
X-RAY FILM HOLDER
Joseph T. Bowser, Pittsburgh, Pa.
Application March 30, 1951, Serial No. 218,315
1 Claim. (Cl. 250—70)



A dental film holder for holding X-ray films comprising a non-metallic bar having an integrally formed bracket at one end thereof and a

pilot cone at the other end integral therewith, said bar having an intermediate ledge portion shaped to be gripped by a patient's teeth, means for securing a film to said film holder comprising a slotted portion in the bracket end thereof adapted to receive and tightly engage an edge portion of said film, a conical recess forming a part of said pilot cone complementary to the shape of the nose of an X-ray machine tube and adapted to receive the nose of said tube, said bar securing said slotted bracket and pilot cone with respect to each other and in such spaced relation that the axis of the nose of said X-ray tube and conical recess of said pilot cone are at right angles to the plane of a surface of said film whereby said dental film holder when held between the teeth of a patient secures said film and nose of the X-ray machine tube with respect to each other and the patient's teeth in effective focally spaced relation.

2,612,610
RADIATION DETECTOR
Fitz-Hugh B. Marshall, Glenshaw, and John W. Coltman, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 6, 1948, Serial No. 58,712
10 Claims. (Cl. 250—71)



1. In combination, an input phosphor capable of storing a portion of the energy of radiation impinging thereon, a photoelectric surface, an electron-optical focusing system, an electron phosphor, a source of stimulating radiation to which said input phosphor is sensitive to accelerate the release of said stored energy directed toward said input phosphor, means for changing the intensity of said stimulating radiation at predetermined intervals.

2,612,611
CATHODE-RAY TUBE
Constantin S. Szegho and Mark E. Amdursky, Chicago, Ill., assignors to The Rauland Corporation, a corporation of Illinois
Application June 23, 1950, Serial No. 169,996
2 Claims. (Cl. 250—80)



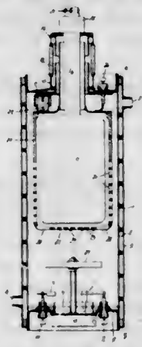
1. An image-reproducing device comprising: a glass viewing plate having relieved integral inner and outer surfaces each comprising a multitude of microscopic nodular protuberances individually of from 5 to 10 microns in height and from 25 to 100 microns in diameter; and a fluorescent screen supported adjacent said inner surface.

2,612,612
CATHODE-RAY TUBE
Constantin S. Szegho, Mark E. Amdursky, and William O. Reed, Chicago, Ill., assignors to The Rauland Corporation, a corporation of Illinois
Application June 23, 1950, Serial No. 169,997
3 Claims. (Cl. 250—80)



1. An image-reproducing device comprising a fluorescent screen supported adjacent a glass viewing plate at least one surface of which comprises a multitude of integral microscopic nodular protuberances individually of from 5 to 20 microns in height and from 5 to 100 microns in diameter.

2,612,613
ELECTRIC DISCHARGE DEVICE
Harry C. Steiner, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application February 25, 1950, Serial No. 146,179
6 Claims. (Cl. 313—18)

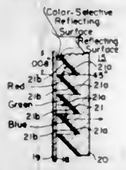


1. An electric discharge device comprising a single main anode and a pool-type cathode spaced from the anode to provide discharge paths for conduction therebetween, means for deionizing the space defining said discharge paths after conduction comprising metal wall surfaces laterally surrounding said discharge path, said wall surfaces being in conductive relationship with said cathode, and means for controlling the initiation of conduction comprising a control electrode having a face extending across said discharge path with its periphery near said wall surfaces, said face being provided with a plurality of openings to define discharge paths therethrough, said openings near the periphery of said surface being substantially larger than those near its center in order to facilitate initiation of conduction in paths near said deionizing means.

2,612,614
CATHODE-RAY TUBE FOR COLOR TELEVISION SYSTEMS
Mark E. Amdursky, Chicago, and Theodore S. Noskowicz, Wooddale, Ill., assignors to The Rauland Corporation, a corporation of Illinois
Application January 18, 1951, Serial No. 206,608
5 Claims. (Cl. 313—92)

1. In a cathode-ray device for reproducing polychromatic images and including a fluorescent screen responsive to electron bombardment to

emit light including a plurality of color components, an optical system comprising: a series of color-selective reflecting elements positioned adjacent said screen individually facing an elemental area thereof and inclined relative to the



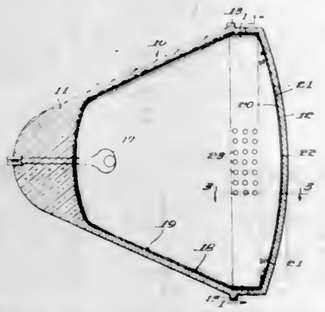
plane of said screen for producing a repeating series of discretely-colored light paths; and a corresponding series of further reflecting elements respectively facing said color-selective reflecting elements for directing said light paths in a preselected direction relative to the plane of said screen.

2,612,615
CATHODE FOR IONIZATION DETECTION DEVICES
Edith B. Fehr and William T. Posey, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application July 22, 1949, Serial No. 106,286
4 Claims. (Cl. 313—93)



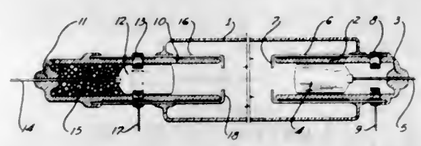
1. An ionization detection device comprising a non-conducting, vitreous envelope containing an atmosphere of ionizable gases including a halogen, an anode within said envelope, a cathode comprising a non-metallic film of electrically conductive corrosion-resistant metal compound on the inner surface of said envelope, said film being non-corroding in the presence of a halogen gas and being obtained by applying a metal halide to the inner surface of said envelope while said surface is maintained at a temperature above the boiling point of said metal halide, and externally accessible terminals connected with said anode and cathode.

2,612,616
VEHICLE HEADLIGHT
Leonard B. Paul, Joliet, Ill., assignor of one-fourth to Joseph Maichin and one-fourth to Emil Brusatori, both of Joliet, Ill.
Application November 22, 1949, Serial No. 128,700
4 Claims. (Cl. 313—117)



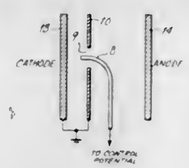
1. As a new article of manufacture, an anti-glare device for a vehicle head light casing and lens fabricated of a single piece of paper like material and comprising a body portion having reflecting paint on its surface, a front portion for diffusing the light emitted by the head light and an adhesive base on said device whereby said device is secured to the interior surface of the casing and the rear face of the lens.

2,612,617
GASEOUS PULSE AMPLIFIER
Glenn E. Hagen, Lawndale, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application May 12, 1949, Serial No. 92,881
1 Claim. (Cl. 313—189)



A pulse amplifier comprising: an envelope containing an inert gas at cold cathode glow discharge pressure; a pair of coaxial tubes of insulating material passing through opposite ends of said envelope, said tubes having their inner ends spaced and their outer ends sealed; a first cylindrical grid positioned and sealed around one of said tubes; a second cylindrical grid positioned and sealed around the other of said tubes, said cylindrical grids also being sealed through the ends of said envelope, both of said grids having edges inturned around the open end of the tubes in which they are positioned; a cold cathode inside the tube supporting said first grid; an anode inside the tube supporting said second grid, each of said grids and said cathode and anode having leads from said envelope said anode and said cathode having facing surfaces normal to the axes of said tubes and substantially filling the interior cross sections of said tubes, said facing surface also being located substantial distances within said tubes away from the inturned edges of said grids, the facing surface of said cathode being at a greater distance away from the inturned edge of the adjacent grid than the corresponding distance relation of the facing surface of said anode with its adjacent inturned grid edge.

2,612,618
ELECTRONIC DISCHARGE TUBE CONTROL
George A. Bonadio, Watertown, N. Y.
Application July 11, 1950, Serial No. 173,113
5 Claims. (Cl. 313—303)



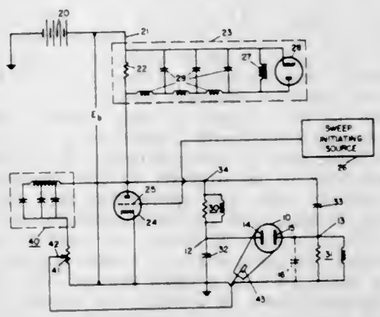
1. An electronic valve of the pure electron discharge type and having as functioning elements at least a cathode, an anode and a control electrode, characterized in that said control electrode comprises a metallic shield formed as a plate and provided with at least one substantially circular aperture therein, and a relatively small and substantially pointed control member proper pointed substantially at the center of said aperture, but insulated from said metallic shield and terminating upon a predetermined side thereof, outside the plane of said shield, the area of said plate in said plane being many times greater than the area of said aperture, and said metallic shield being positioned adjacent the cathode, and being metallically connected thereto, so as to be equipotential therewith.

2,612,619
SLEEVE FOR INDIRECTLY HEATED CATHODE HAVING AN INTEGRAL TAB
Robert Friedli, Jr., Irvington, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 30, 1948, Serial No. 62,734
8 Claims. (Cl. 313—331)



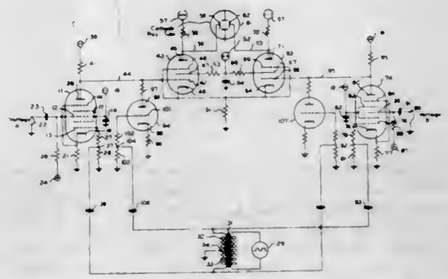
1. A cathode sleeve having an integral tab, a portion of said tab adjacent said sleeve following the curvature of said sleeve in cross section, and another portion of said tab adjacent the free end of said tab having a larger radius of curvature than said first mentioned portion and being substantially flat.

2,612,620
BRIDGE TYPE DEFLECTION CIRCUIT
David F. Winter, St. Louis, Mo., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application September 9, 1950, Serial No. 183,992
10 Claims. (Cl. 315—22)



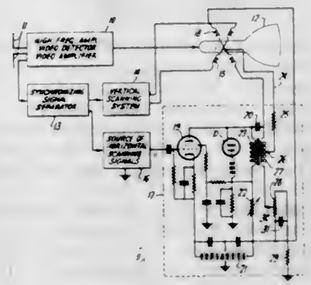
1. A deflection circuit for a cathode ray tube having deflection plates comprising a bridge including a series connection of reactive elements in each of two sides, said deflection plates being connected across one diagonal of said bridge and a source of potential being connected across the second diagonal of said bridge.

2,612,621
CONTROL CIRCUITS FOR CATHODE-RAY TUBES
James E. Shepherd, Hempstead, and Charles H. Gulles, East Hempstead, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application June 18, 1942, Serial No. 447,534
21 Claims. (Cl. 315—23)



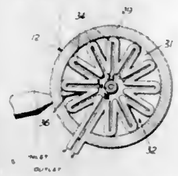
17. In an electronic switch, an electron discharge tube, means for periodically and alternately rendering said tube conductive and non-conductive, and means for loading said tube when it is rendered nonconductive and unloading it when it is rendered conductive, so as to maintain the average output potential of said tube at substantially the same value during both said conducting and non-conducting periods.

2,612,622
SCANNING SYSTEM FOR CATHODE-RAY TUBES
Robert R. Thalner, Buffalo, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application December 14, 1950, Serial No. 200,712
5 Claims. (Cl. 315—27)



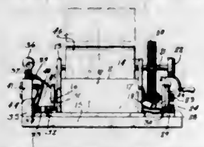
1. A magnetic scanning system for a cathode-ray tube comprising, a center-tapped scanning winding for said tube to deflect the cathode-ray beam thereof in one direction, said winding having similar physical winding structures on each side of said center tap but undesirably having unequal inherent distributed capacitances across the two halves thereof, a source of scanning signals for effecting energization of said winding with currents of scanning waveform, and an impedance coupling said source and said winding and including a winding having a center tap coupled through a resistor to the center tap of said scanning winding to reduce the undesirable effect of said unequal distributed capacitances on the scanning action effected by said system.

2,612,623
ANODE STRUCTURE FOR ELECTRON DISCHARGE DEVICES
Percy L. Spencer, West Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application October 26, 1949, Serial No. 123,647
1 Claim. (Cl. 315—40)



A magnetron comprising: a hermetically sealed cylindrical envelope; a cathode centrally disposed in said envelope; and an anode spaced from and surrounding said cathode; said anode including a hollow flattened tubular member successively bent in opposite directions to provide alternate arms facing said cathode and intervening arms secured to said envelope; each adjacent pair of the arms facing said cathode, together with the arm therebetween secured to said envelope, defining a cavity resonator of appreciable dimension in the direction of said cathode; said hollow tubular member providing a continuous passage between the ends thereof, and said ends communicating with the exterior of said envelope and constituting, respectively, fluid inlet and outlet ports.

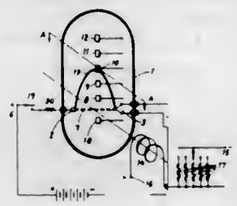
2,612,624
MAGNETOELECTRIC SHOCKING DEVICE
James Trotta, New York, N. Y.
Application August 29, 1950, Serial No. 182,055
5 Claims. (Cl. 315—218)



1. In a magnetoelectric device of the class described, a manually rotative armature having end aligned rotatively supported trundles, a commutator mounted on one of said trundles, a contact terminal having a leaf spring engaging said commutator, a current conductive disc mounted on the other of said trundles, an insulative disc mounted on the said other trundle in face contact with said conductive disc contact points extending from the face of said conductive disc engaging said insulative disc and through said insulative disc, said contact points being arranged in a circle concentric with the axis of rotation of the said other disc and exposed on the face of said insulative disc facing away from said conductive disc, and a contact terminal having a leaf spring engaging said insulative disc to successively engage said contact points as said armature is rotated.

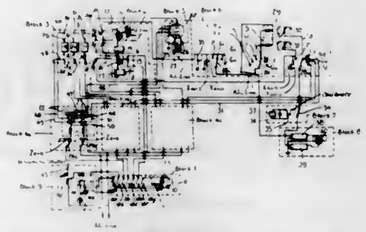
2,612,625
GASEOUS DISCHARGE TUBE
Erik Waldemar Hullegård, Stockholm, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden
Application November 6, 1947, Serial No. 784,485
In Sweden November 23, 1946
6 Claims. (Cl. 315—338)

1. A selector device including in combination an envelope comprising a gaseous discharge tube and an anode and a cathode in said gaseous discharge tube, a plurality of contact electrodes positioned between said anode and said cathode, a current source connected to said anode and cathode for producing a string shaped arc discharge normally occupying a predetermined zero position in the space between same, and mag-



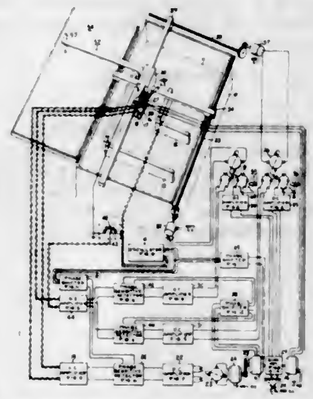
netic means positioned adjacent said discharge tube for selectively deflecting the path of said arc discharge from said predetermined zero position to any one of a number of other positions in which said arc discharge simultaneously contacts one of said contact electrodes, in addition to the anode and cathode.

2,612,626
VACUUM TUBE CHARACTERISTIC TRACER
James G. Miles, Sidney, N. Y.
Application April 19, 1946, Serial No. 663,425
8 Claims. (Cl. 315—370)



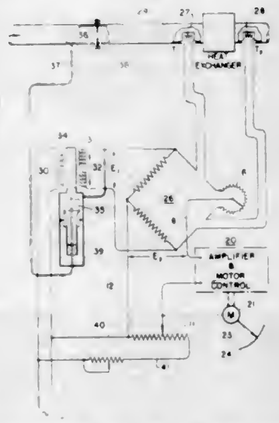
1. Apparatus for obtaining characteristic curves of a vacuum tube or the like having several electrodes, comprising power supplies for the several electrodes, one of said power supplies providing a swinging electrode voltage, means for adjusting one of said supplies, a cathode ray tube having a screen, means coupling said cathode ray tube to the vacuum tube or the like to produce successive traces on the screen representing the operation of the vacuum tube or the like during application of swinging voltage, said adjustment means being shifted between traces, electrical shutter opening means for a camera adapted to be focused on said screen, general illuminating means, and a sequencing switch having multiple sets of contacts for causing the various voltages to be applied to the electrode of the vacuum tube, for energizing said shutter-opening means, and for extinguishing the general illumination, whereby successive related curves may be recorded on a single photographic film, a mask having a dark ground and a light data proportioned to overlie the screen of the cathode ray tube, and a supplemental switch for maintaining the general illumination during a cycle of operation of said sequencing switch, whereby coordinate data may be photographically superimposed on a family of photographically recorded traces when said mask is interposed between the camera and the cathode ray screen and illuminated by the general illuminating means.

2,612,627
FIELD MAPPING MACHINE
Kenneth O. Straney, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application December 18, 1948, Serial No. 66,124
16 Claims. (Cl. 318—19)



1. In a field mapping machine, the combination of a probe assembly including a plurality of probes, means for aligning two of said probes along a tangent of an equipotential line of the field mapped, means to move said probe assembly in one direction at a speed substantially proportional to the cosine of the angle between such tangent and such direction, and means to move the probe assembly perpendicular to such direction at a speed substantially proportional to the sine of such angle.

2,612,628
BALANCEABLE NETWORK ELECTRIC MEASURING SYSTEM
Anthony J. Hornfeck, Lyndhurst, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application August 2, 1947, Serial No. 765,760
5 Claims. (Cl. 318—28)



1. A measuring system for a plurality of interrelated variable conditions comprising, in combination, a pair of bridge circuits each having an element forming one of its legs and varying in resistance in response to changes in a different one of said conditions, means for energizing said bridge circuits from a common source of voltage, means for varying said voltage for each bridge in response to changes in different other ones of said conditions, means for opposing a voltage proportional to the output voltage of one of said bridge circuits to an adjustable portion of the output voltage of other of said bridge circuits, and means operating in response to the difference between said voltages for varying the portion of the output voltage of said other bridge circuit until said opposing voltages are equal.

2,612,629
CURRENT INTERRUPTER
Ernst F. W. Alexanderson and Albert H. Mittag, Schenectady, N. Y., and Robert W. Kuenning, Berkeley, Calif., assignors to General Electric Company, a corporation of New York
Application April 17, 1951, Serial No. 221,406
10 Claims. (Cl. 321—11)



2. In an electric circuit for transmitting direct current to an inductive load, a current interrupter comprising first and second discharge devices each having a control electrode, said first device being connected in series with the load, a transformer having a primary winding and a secondary winding, said second device and said secondary winding being connected in series with each other and in shunt across the load, means to supply alternating current to said primary winding, a resistor connected across the load, means to vary the control electrode potential of said first device to cause such device to tend to become conductive or non-conductive selectively, means to maintain the control electrode potential of said second device normally at a value which tends to keep such device non-conductive, and means to apply an electric impulse to the control electrode of said second device to initiate conduction of current therethrough.

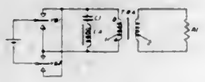
2,612,630
ELECTRICAL CONVERSION NETWORK
Francis D. Greenleaf, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 30, 1949, Serial No. 113,075
12 Claims. (Cl. 321—32)



1. In an electrical network for converting variable magnitude alternating voltage into a voltage non-linearly related in magnitude to the magnitude of said alternating voltage, input terminals in said network for an alternating voltage source, an output load element, rectifying circuits connected between said input terminals and said load element to develop across said load element a resultant voltage containing opposite polarity unidirectional voltage components derived by said rectifying circuits from said alternating voltage, means in said rectifying circuits providing magnitude inequalities between said unidirectional

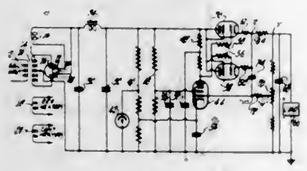
voltages, and a circuit connected in shunt with a portion of one of said rectifying circuits and responsive to voltages of greater than a predetermined magnitude across said shunted circuit portion to alter said voltage magnitude inequalities whereby to alter the magnitude relations between said resultant voltage and said alternating voltage.

2,612,631
RECTANGULAR WAVE FORM INVERTER
Lionel Sparke Distin, Chilwell, and Cecil Victor Wilman, Long Eaton, England, assignors to Ericsson Telephones Limited, London, England
Application February 24, 1950, Serial No. 146,082
In Great Britain July 22, 1948
6 Claims. (Cl. 321—49)



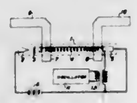
1. In an arrangement for obtaining alternating current of rectangular wave form from a direct current source by reversing interrupter contact means in circuit with said source, the combination with a transformer, conductively separated primary and secondary windings in said transformer, said primary winding connected to said contact means and supply from said source by periodic closure of said contact means with alternating current, and said secondary winding connected to a load circuit for supplying alternating current to said load circuit, of a capacitor and an inductor connected in series to form a capacitor/inductor combination, said capacitor/inductor combination connnected in parallel with one winding of the transformer to form a tuned oscillatory circuit having a natural frequency higher than the operating frequency of the contact means such that the current pulses in said tuned circuit decline to zero and reverse prior to each opening of the contact means and the reversed currents in said tuned circuit maintain magnetisation of the transformer and thereby the rectangular wave form in the load circuit and reduce current through the contact means sinusoidally to zero prior to and during each open float period of said contact means.

2,612,632
REGULATED POWER SUPPLY
William R. Ayres, Oaklyn, and Harry J. Woll, Audubon, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application August 30, 1949, Serial No. 113,226
5 Claims. (Cl. 323—22)



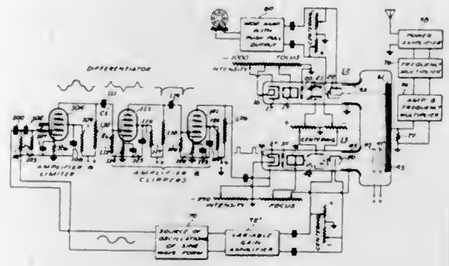
1. The combination of an electronically regulated power supply and a high pass filter, said power supply including a point of substantially low alternating current potential, a control tube, said control tube having a control grid upon which voltage samples are impressed to obtain regulation of said power supply output voltage, and an output filter section comprising a series resistor having a first and a second end, and a shunt condenser, said shunt condenser being connected to said second end of said series resistor, and said high pass filter comprising series capacitive arms and a shunt resistive arm, said series capacitive arms being connected between said first end of said series resistor and said control tube grid, said shunt resistive arm being connected to said point of substantially low alternating current potential in said power supply.

2,612,633
MULTIPLEX CONVERTER
Cassius C. Cutler, Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 13, 1950, Serial No. 184,679
10 Claims. (Cl. 332—7)



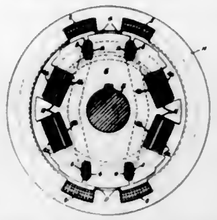
2. Apparatus for alternately making changes of equal extent but opposite sense in the center frequency of successive periodic pulses comprising a traveling wave amplifier having a cathode and a helix, means for applying said pulses to said helix, means for sustaining a beam of electrons adjacent to and parallel to said helix at a velocity approximating the velocity of said pulses upon said helix, and means for operating upon the beam alternately to increase and decrease its velocity as alternate pulses are present upon said helix.

2,612,634
ANGULAR MODULATION
Max H. Mesner, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 19, 1944, Serial No. 559,469
23 Claims. (Cl. 332—25)



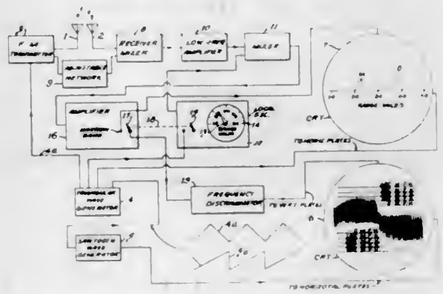
1. In a signalling system, in combination with a tube having a target comprising a plurality of parallel conductive strips insulated from each other, and an electron beam producing system which produces an electron beam which falls on a conductive strip intermediate the outer strips, means for deflecting said beam across said target in accordance with signals and in a direction transverse to said strips, and means cooperating with said strips for generating wave energy the phase of which corresponds to the position of the beam spot on the target.

2,612,635
INDUCTION VOLTAGE REGULATOR
Harry R. West and Myron E. Sayles, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application February 16, 1951, Serial No. 211,236
3 Claims. (Cl. 336—79)



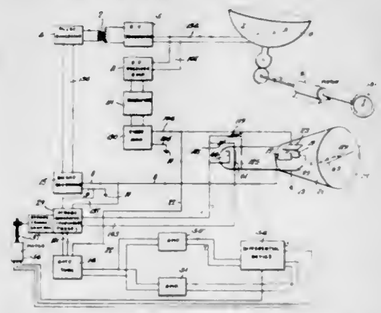
1. An induction voltage regulator comprising a stator member provided with a first plurality of slots therein, an angularly positionable rotor member provided with a second plurality of slots therein, a primary winding mounted on said rotor member in a portion of said second plurality of slots, said primary winding having two winding sections in series relationship with each other and having two power input terminals and a third terminal, one of said terminals being connected to a point on said primary winding intermediate the other two terminals, each of said sections being equally distributed among said portion of said second plurality of slots, a secondary winding mounted on said stator member in said first plurality of slots with inductive relationship to said primary winding and having a terminal connected to said third terminal, and a tertiary winding mounted on said rotor in the remaining portion of said second plurality of slots, the axis of said tertiary winding being oriented at right angles to the axis of said primary winding.

2,612,636
RADIO LOCATION AND DETECTION ARRANGEMENT
Noël Meyer Rust, Chelmsford, and George Earnshaw Partington, Langdale, England, assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application July 10, 1947, Serial No. 760,097
In Great Britain January 28, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires January 28, 1966
13 Claims. (Cl. 343—9)



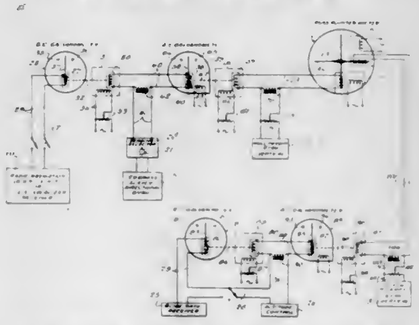
11. A radar system comprising means for transmitting continuous wave energy, means for varying the frequency of the transmitted energy over a predetermined range of frequencies, increasing it during predetermined periods and decreasing it during other intermediate periods, means for receiving reflected transmitted energy from reflecting objects, means for combining reflected received energy with energy then being transmitted to produce beat frequency signals, means for indicating the distances to said objects as a function of said beat frequency signals, and means for changing the rate of increase of the frequency of the transmitted energy with respect to the rate of decrease of the frequency of the transmitted energy and thereby adjusting the ratio of said rates whereby the Doppler effect in the distance indications may be avoided for reflecting objects having a certain relative speed with respect to said radar system.

2,612,637
PULSE-ECHO TRACKING SYSTEM
Robert Harvey Rines, Brookline, Mass.
Application November 29, 1946, Serial No. 713,010
22 Claims. (Cl. 343—13)



1. A radio-location-ranging system having, in combination, means for receiving radio-wave signals from a moving object, said signals having unsymmetrical rising and falling portions, means cooperative with the receiving means for indicating the range of the object, and means selectively responsive to the dissimilar characteristics of the rising and falling portions of the radio-wave signals for automatically controlling the indicating means to provide continuous and automatic readings of the range of the object.

2,612,638
NAVIGATION AID SYSTEM
Cecil C. Pine, Lake Ronkonkoma, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application February 23, 1950, Serial No. 145,822
11 Claims. (Cl. 343—107)



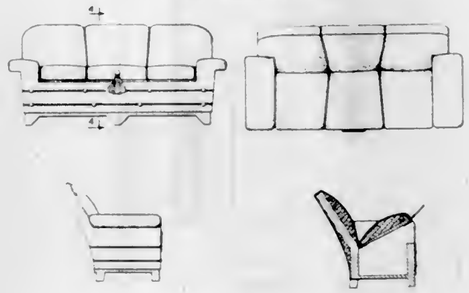
1. In a signal mixing system having an indicator with a movable pointer, pointer moving

means, and means capable of providing an operating signal for said pointer moving means of too large an amplitude for proper use in the mixing system; a galvanometer having a moving coil element coupled to the operating signal means, an electrical signal generator coupled to the pointer moving means having a rotor, means mechanically connecting said coil element and rotor, and stop means for said mechanical connecting means to limit the movement thereof and thereby properly limit the amplitude of the signal operating means in the mixing system.

DESIGNS

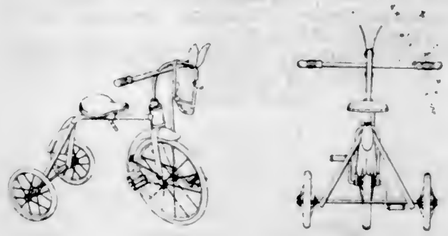
SEPTEMBER 30, 1952

167,821
COMBINED SEWING CHEST AND PIN CUSHION OR THE LIKE
Hubert J. Barrows, Denver, Colo.
Application April 4, 1952, Serial No. 19,197
Term of patent 14 years
(Cl. D3—19)



The ornamental design for a combined sewing chest and pin cushion or the like, as shown.

167,822
CHILD'S TRICYCLE
Dorr D. Beale, Minneapolis, Minn.
Application March 24, 1951, Serial No. 14,612
Term of patent 14 years
(Cl. D34—15)



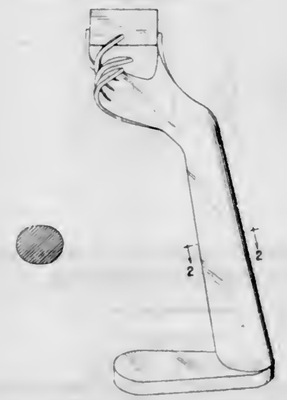
The ornamental design for a child's tricycle, substantially as shown.

167,823
BELT BUCKLE
Albert Bliss, Providence, R. I.
Application January 9, 1952, Serial No. 17,979
Term of patent 14 years
(Cl. D17—1)



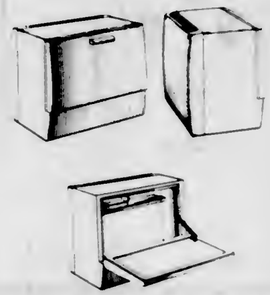
The ornamental design for a belt buckle, as shown.

167,824
HOSIERY DISPLAY RACK OR SIMILAR ARTICLE
Grace Jones Colombo, New York, N. Y., assignor to Hanes Hosiery, Inc., New York, N. Y., a corporation of New York
Application October 20, 1951, Serial No. 17,052
Term of patent 14 years
(Cl. D80—9)



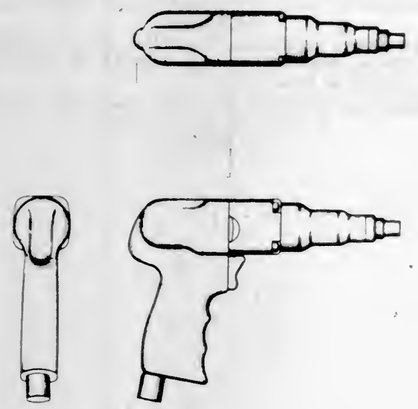
The ornamental design for a hosiery display rack or similar article, as shown.

167,825
REFRIGERATOR
Donald E. Dailey, Center Township, Vanderburgh County, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 9, 1951, Serial No. 17,345
Term of patent 14 years
(Cl. D67—3)



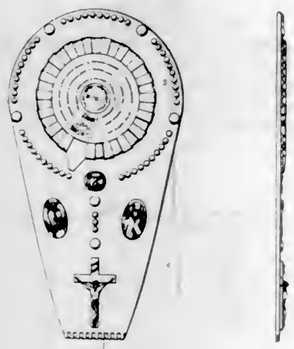
The ornamental design for a refrigerator, as shown.

167,826
POWER TOOL UNIT
Roland E. Doeden, Crete, Ill., assignor to Mall Tool Company, Chicago, Ill., a corporation of Illinois
Application June 6, 1951, Serial No. 15,429
Term of patent 14 years
(Cl. D54—14)



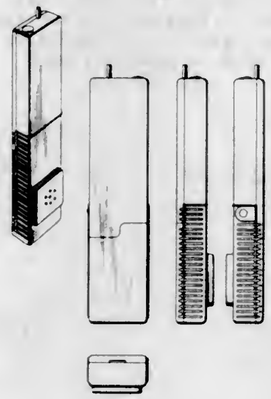
The ornamental design for a power tool unit, substantially as shown and described.

167,827
ROSARY MEDAL
Damon M. Doherty, St. Cloud, Minn.
Application October 29, 1951, Serial No. 17,156
Term of patent 14 years
(Cl. D29—2)



The ornamental design for a rosary medal, substantially as shown.

167,828
RADIO RECEIVER CASING
Richard Florac, New York, N. Y., assignor to Telanserphone Inc., New York, N. Y., a corporation of Delaware
Application May 27, 1952, Serial No. 19,908
Term of patent 14 years
(Cl. D56—4)



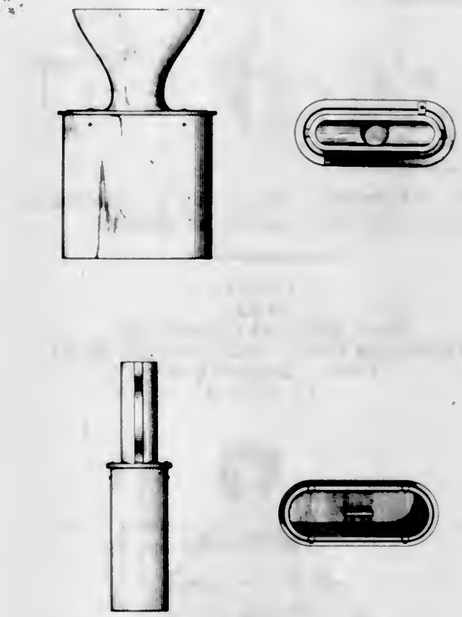
The ornamental design for a radio receiver casing, as shown.

167,829
SUGAR BOWL
Donald E. Folley, Fayetteville, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application January 24, 1952, Serial No. 18,205
Term of patent 14 years
(Cl. D44—26)



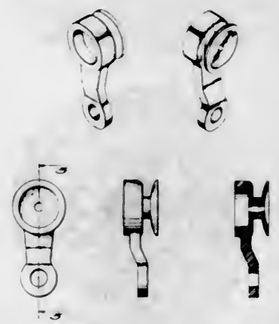
The ornamental design for a sugar bowl, as shown.

167,830
COMBINED FLOWER BASKET AND STAND THEREFOR
Elwyn M. Gipson, Lufkin, Tex.
Application April 2, 1952, Serial No. 19,172
Term of patent 14 years
(Cl. D35—3)



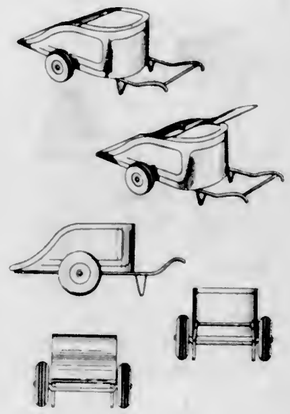
The ornamental design for a combined flower basket and stand therefor, as shown.

167,831
DRAPERY TRAVERSE HANGER
Joseph V. Graber and John N. Graber, Madison, Wis., assignors to The Graber Company, Middleton, Wis., a partnership
Application September 8, 1951, Serial No. 16,582
Term of patent 14 years
(Cl. D21—1)



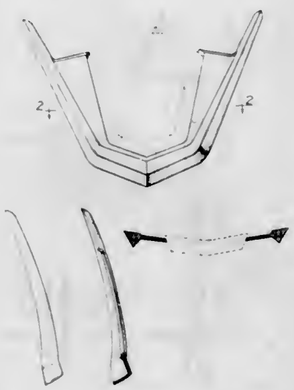
The ornamental design for a drapery traverse hanger, as shown.

167,832
FIRE FIGHTING VEHICLE
Edgar J. Graef, Dayton, Ohio, assignor to The Duro Company, Dayton, Ohio, a corporation of Ohio
Application January 28, 1950, Serial No. 7,556
Term of patent 7 years
(Cl. D14—3)



The ornamental design for a fire fighting vehicle, substantially as shown.

167,833
AUTOMOBILE ORNAMENT OR THE LIKE
Robert H. Hieger, Detroit, Mich.
Application September 11, 1950, Serial No. 12,146
Term of patent 7 years
(Cl. D14—18)



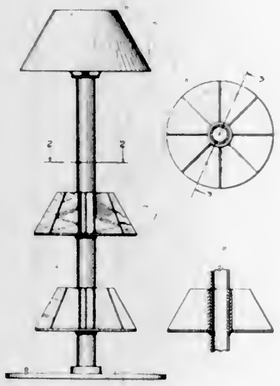
The ornamental design for an automobile ornament or the like, substantially as shown and described.

167,834
INFANT'S SHOE
Robert G. Hildebrand, St. Louis, Mo.
Application March 15, 1952, Serial No. 18,914
Term of patent 14 years
(Cl. D7—7)



The ornamental design for an infant's shoe, as shown and described.

167,835
COMBINED BOOKRACK AND FLOOR LAMP
Jeanette James, Chicago, Ill.
Application May 23, 1952, Serial No. 19,866
Term of patent 7 years
(Cl. D48—20)



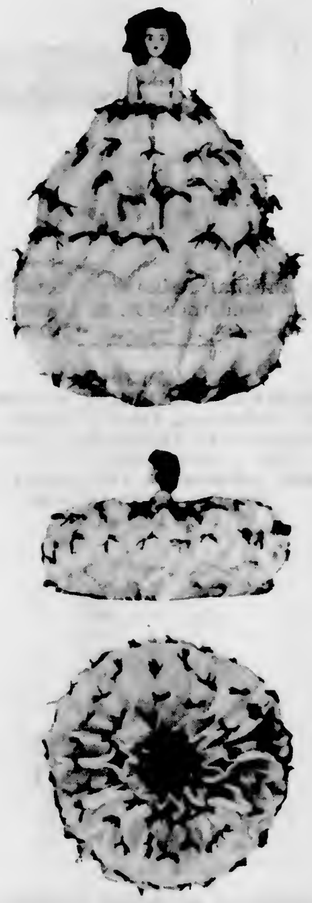
The ornamental design for a combined book rack and floor lamp, as shown.

167,836
COMBINATION CLOTHES HANGER AND CABINET
Belle A. Kandarian, Fresno, Calif.
Application June 23, 1952, Serial No. 20,313
Term of patent 14 years
(Cl. D80—8)



The ornamental design for a combination clothes hanger and cabinet, as shown.

167,837
DOLL
Mary Aileen Kirk, Salem, Va.
Application July 3, 1952, Serial No. 20,464
Term of patent 14 years
(Cl. D34—4)



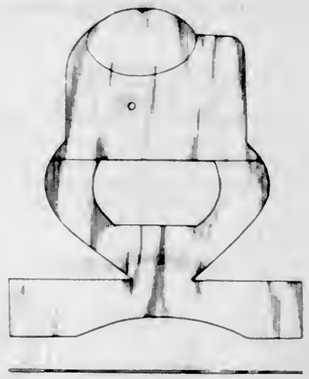
The ornamental design for a doll, as shown.

167,838
VASE OR SIMILAR ARTICLE
Belle Kogan, New York, N. Y., assignor to The Red Wing Potteries, Inc., Red Wing, Minn.
Application May 22, 1952, Serial No. 19,829
Term of patent 7 years
(Cl. D29—28)



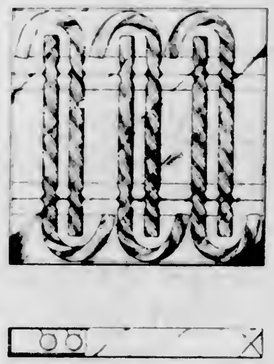
The ornamental design for a vase or similar article, substantially as shown.

167,839
COMBINED BOW TIE DISPLAY AND SHIRT COLLAR SHAPER
Leon P. Lerner, New York, N. Y.
Application March 18, 1952, Serial No. 18,946
Term of patent 3½ years
(Cl. D80—5)



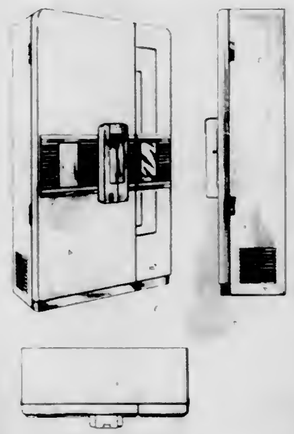
The ornamental design for a combined bowtie display and shirt collar shaper, substantially as shown and described.

167,840
COMBINED CONTAINER AND CANDY CANE DISPLAY
Robert E. McCormack, Sr., Albany, Ga.
Application August 7, 1951, Serial No. 16,185
Term of patent 14 years
(Cl. D80—5)



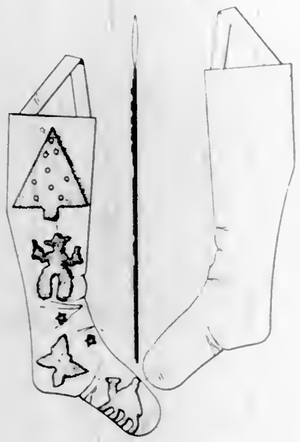
The ornamental design for a combined container and candy cane display, as shown.

167,841
BOTTLED DRINK VENDING MACHINE CASE
Charles G. Meyer, Kansas City, Mo., assignor to The Vendo Company, Kansas City, Mo., a corporation of Missouri
Application July 16, 1951, Serial No. 15,880
Term of patent 14 years
(Cl. D52—3)



The ornamental design for a bottled drink vending machine case, as shown.

167,842
GIFT STOCKING
Ann E. Mohr, New York, N. Y.
Application March 15, 1951, Serial No. 14,507
Term of patent 3½ years
(Cl. D47—7)



The ornamental design for a gift stocking, as shown and described.

167,843
LADY'S STOCKING
Walter Mueller, Clifton, N. J., assignor of one-half to Richard E. Schletter, Philadelphia, Pa.
Application July 5, 1951, Serial No. 15,763
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, substantially as shown and described.

167,844
LADY'S STOCKING
Walter Mueller, Clifton, N. J., assignor of one-half to Richard E. Schletter, Philadelphia, Pa.
Application August 4, 1951, Serial No. 16,150
Term of patent 14 years
(Cl. D47—7)



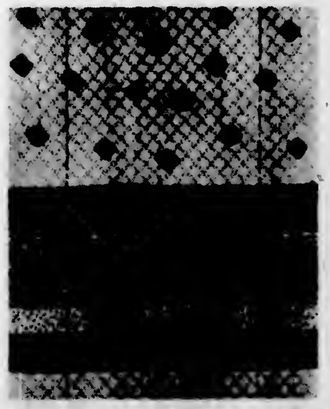
The ornamental design for a lady's stocking, substantially as shown and described.

167,845
CUFF LINK OR SIMILAR ARTICLE
Frank Donald Napolitani, New York, N. Y.
Application May 5, 1952, Serial No. 19,589
Term of patent 3½ years
(Cl. D17—7)



The ornamental design for a cuff link or similar article, substantially as shown.

167,846
TEXTILE FABRIC OR SIMILAR ARTICLE
Harry Odzer, New York, N. Y.
Application April 30, 1952, Serial No. 19,529
Term of patent 3½ years
(Cl. D02—1)



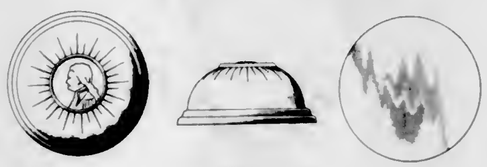
The ornamental design for a textile fabric or similar article, substantially as shown and described.

167,847
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application June 13, 1951, Serial No. 15,524
Term of patent 14 years
(Cl. D82—2)



The ornamental design for a molded food product, as shown.

167,848
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application July 19, 1951, Serial No. 15,946
Term of patent 14 years
(Cl. D82—2)



The ornamental design for a molded food product, as shown.

167,849
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,140
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

167,850
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,141
Term of patent 7 years
(Cl. D45—16)



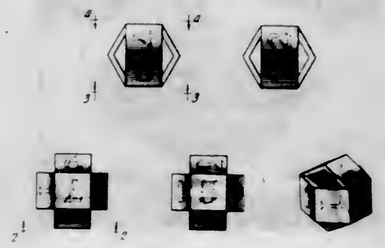
The ornamental design for a link chain for a necklace or the like, substantially as shown.

167,851
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application June 12, 1952, Serial No. 20,143
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

167,852
TEN-SIDED DIE
David Reader, New York, N. Y.
Application September 22, 1951, Serial No. 16,711
Term of patent 14 years
(Cl. D34—5)



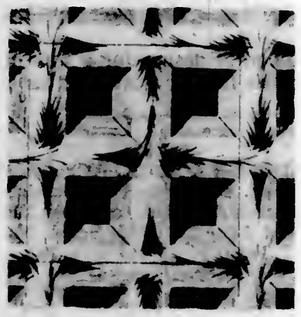
The ornamental design for a ten-sided die, as shown and described.

167,853
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application November 3, 1951, Serial No. 17,264
Term of patent 7 years
(Cl. D45—4)



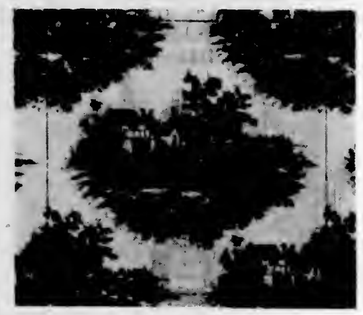
The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

167,854
TEXTILE FABRIC
Henry Rose, New York, N. Y.
Application October 25, 1951, Serial No. 17,105
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown and described.

167,855
TEXTILE FABRIC
Henry Rose, New York, N. Y.
Application October 25, 1951, Serial No. 17,107
Term of patent 7 years
(Cl. D92—1)



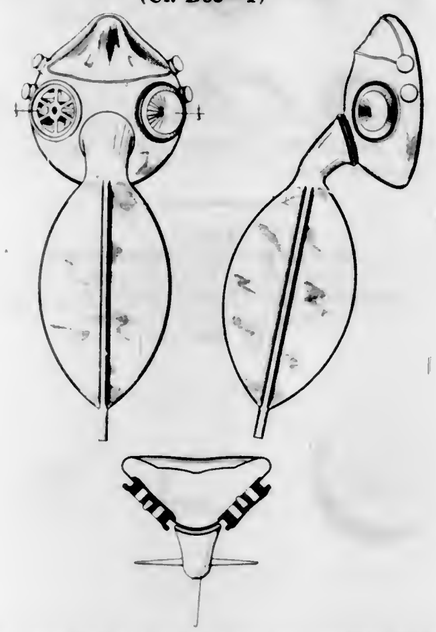
The ornamental design for a textile fabric, substantially as shown and described.

167,856
TEXTILE FABRIC
Henry Rose, New York, N. Y.
Application November 14, 1951, Serial No. 17,397
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a textile fabric, substantially as shown and described.

167,857
OXYGEN MASK
Allan M. Russell, Shaker Heights, Ohio
Application April 28, 1951, Serial No. 14,998
Term of patent 14 years
(Cl. D83—1)



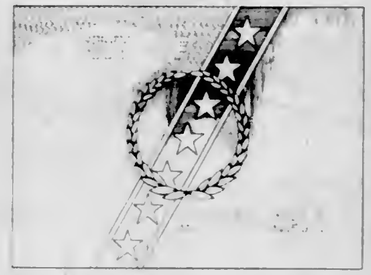
The ornamental design for an oxygen mask, as shown.

167,858
OXYGEN MASK
Allan M. Russell, Shaker Heights, Ohio
Application April 15, 1952, Serial No. 19,326
Term of patent 14 years
(Cl. D83—1)



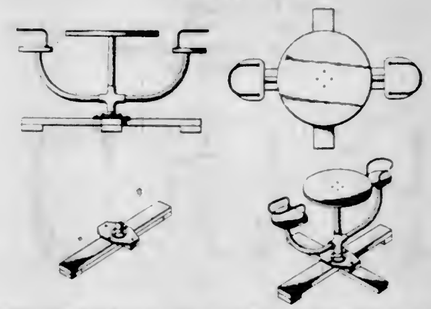
The ornamental design for an oxygen mask, as shown.

167,859
FLAG
Robert S. Ryan, Montgomery, Ala., assignor to Chamber of Commerce of Montgomery, Montgomery, Ala.
Application April 9, 1952, Serial No. 19,259
Term of patent 14 years
(Cl. D29—2)



The ornamental design for a flag, as shown and described.

167,860
PORTABLE MERRY-GO-ROUND
Emery Salgo and Fred M. Drake, Reno, Nev.
Application May 29, 1950, Serial No. 10,263
Term of patent 14 years
(Cl. D34—5)



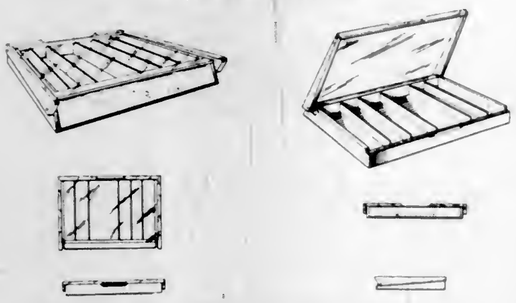
The ornamental design for a portable merry-go-round, as shown.

167,861
COMBINED BELL AND BOTTLE CAP REMOVER
Sajjan Singh Sarna, New York, N. Y.
Application June 18, 1952, Serial No. 20,241
Term of patent 7 years
(Cl. D29—1)



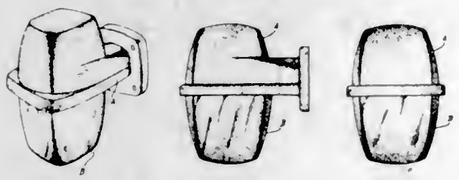
The ornamental design for a combined bell and bottle cap remover, as shown and described.

167,862
COUNTER DISPLAY CASE
Peter Schladermundt, Bronxville, and William H. Dennerlein, Whitestone, N. Y., assignors to The Gillette Company, Boston, Mass., a corporation of Delaware
Application January 5, 1952, Serial No. 17,958
Term of patent 14 years
(Cl. D80—11)



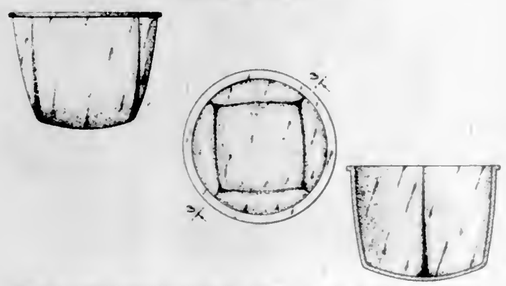
The ornamental design for a counter display case, substantially as shown.

167,863
LIGHTING FIXTURE
Viktor Schreckengost, Cleveland, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application April 30, 1952, Serial No. 19,522
Term of patent 14 years
(Cl. D48—4)



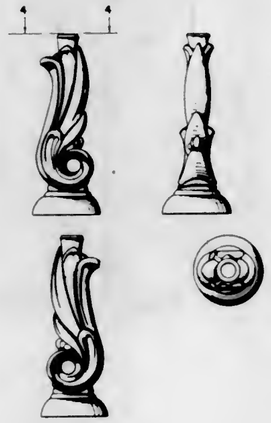
The ornamental design for a lighting fixture, as shown and described.

167,864
LIGHTING FIXTURE BOWL
Viktor Schreckengost, Cleveland, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application April 30, 1952, Serial No. 19,523
Term of patent 14 years
(Cl. D48—16)



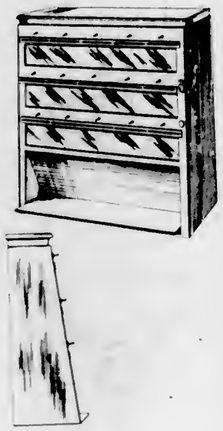
The ornamental design for a lighting fixture bowl, as shown.

167,865
BASE FOR TABLE LAMPS
Eugene Schwarz, Alexandria, Ind., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois
Application September 22, 1951, Serial No. 16,704
Term of patent 14 years
(Cl. D48—20)



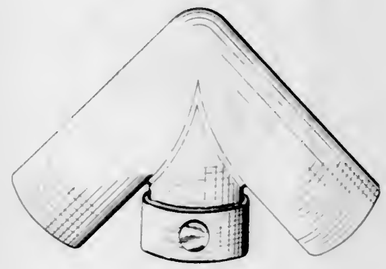
The ornamental design for a base for table lamps, as shown.

167,866
PHONOGRAPH RECORD VENDOR
Ford Se Bastian, Chicago, Ill., assignor to The Exhibit Supply Co., Chicago, Ill., a corporation of Illinois
Application May 16, 1952, Serial No. 19,734
Term of patent 3½ years
(Cl. D52—3)



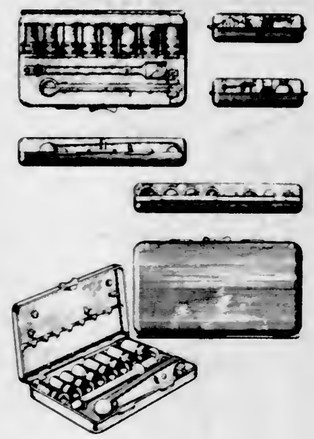
The ornamental design for a phonograph record vendor, as shown and described.

167,867
VENTILATOR HEAD FOR GAS PIPE LINES OR THE LIKE
Thomas Dixon Sedberry and Arthur Fleet Davis, Shreveport, La.
Application February 3, 1950, Serial No. 7,726
Term of patent 14 years
(Cl. D62—3)



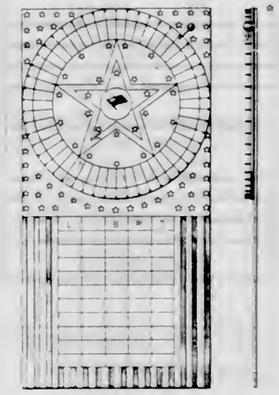
The ornamental design for a ventilator head for gas pipe lines or the like, as shown.

167,868
COMBINED CASE AND WRENCH SET UNIT
William Selikoff and William B. McBride, Buffalo, N. Y., assignors to Meteor Manufacturing Corp., Buffalo, N. Y., a corporation of New York
Application May 12, 1950, Serial No. 9,902
Term of patent 7 years
(Cl. D58—12.6)



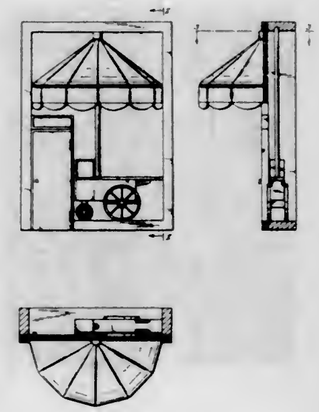
The ornamental design for a combined case and wrench set unit, substantially as shown.

167,869
GAME BOARD
Russell M. Shoff, Hudson Falls, N. Y.
Application April 7, 1952, Serial No. 19,218
Term of patent 7 years
(Cl. D34—5)



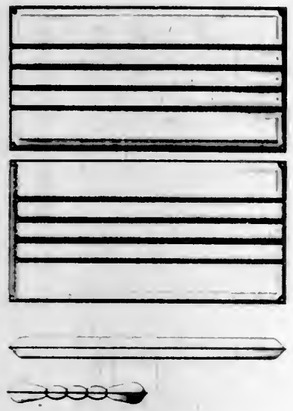
The ornamental design for a game board, as shown and described.

167,870
STORE FRONT
Fred Edward Stuhr, New York, N. Y.
Application January 21, 1952, Serial No. 18,131
Term of patent 3½ years
(Cl. D13—1)



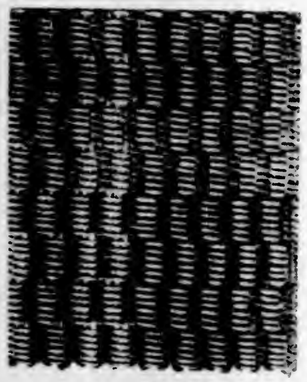
The ornamental design for a store front, as shown.

167,871
INFLATABLE MATTRESS
Wilbur L. Vega, New Milford, N. J., assignor to U. S. Fiber & Plastics Corp., Stirling, N. J.
Application May 5, 1952, Serial No. 19,587
Term of patent 14 years
(Cl. D5—2)



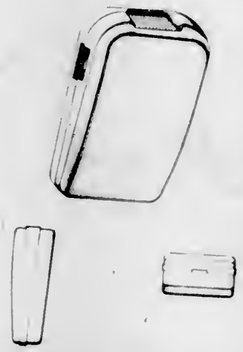
The ornamental design for an inflatable mattress, as shown.

167,872
FLOOR COVERING
Philip C. Waite, Oshkosh, Wis., assignor to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin
Application April 2, 1952, Serial No. 19,157
Term of patent 14 years
(Cl. D92—4)



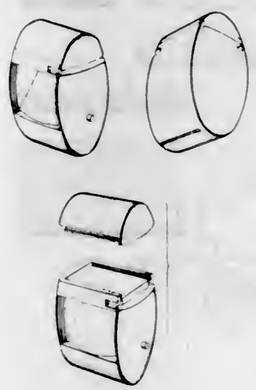
The ornamental design for a floor covering, as shown.

167,873
HEARING AID
Leland A. Watson, Minneapolis, Minn., assignor to The Maico Company, Incorporated, Minneapolis, Minn., a corporation of Minnesota
Application April 15, 1950, Serial No. 9,231
Term of patent 14 years
(Cl. D26—14)



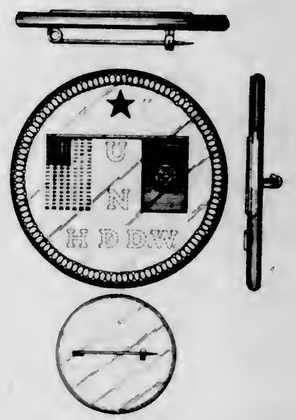
The ornamental design for a hearing aid, as shown and described.

167,874
SLIDE VIEWER
Michael S. Wolk, Miller, Ind.
Application June 9, 1952, Serial No. 20,085
Term of patent 14 years
(Cl. D61—1)



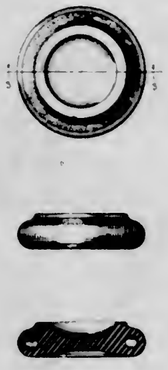
The ornamental design for a slide viewer, substantially as shown.

167,875
BADGE
Marlon E. Wright, Waterbury, Vt.
Application May 15, 1952, Serial No. 19,721
Term of patent 14 years
(Cl. D29—2)



The ornamental design for a badge, as shown and described.

167,876
CASTER CUP OR SIMILAR ARTICLE
Betty Auer, Chicago, Ill.
Application September 27, 1950, Serial No. 12,363
Term of patent 14 years
(Cl. D10—6)



The ornamental design for a caster cup or similar article, as shown.

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UNITED STATES PATENT OFFICE

Containing the Patents, Trade-Marks, & Designs issued

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Patents expiring: Patent Numbers 2,016,270 to 2,017,033, inclusive, issued October 8, 1935, expire October 8, 1952

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abel Corporation, The, Columbus, Ohio. Woolen robes. Serial No. 584,739, Oct. 7. Class 42.

Acme-Evans Company, Inc., Indianapolis, Ind. Wheat flour. Serial No. 607,062, Oct. 7. Class 46.

Acme Steel Company, Chicago, Ill. Metal strap fastening seals, corrugated wood fasteners, joint fasteners, etc. Serial No. 618,222, Oct. 7. Class 13.

Adams Corporation, Korn Kurls Division, Beloit, Wis. Deep fried, cheese flavored potato and tapioca product. Serial No. 603,347, Oct. 7. Class 46.

Allied Laboratories, Inc., Kansas City, Mo. Tablet for control of pain of neuralgic type. Serial No. 608,908, Oct. 7. Class 18.

Alpha Kappa Kappa Fraternity, Columbus, Ohio. Advancement of medical science among the members of its chapters; etc. Serial No. 590,572, Oct. 7. Class 100.

American Bank Note Company, New York, N. Y. Imprints representing currency or value. Serial No. 585,623, Oct. 7. Class 38.

American Bank Note Company, New York, N. Y. Imprints representing currency or value. Serial No. 585,625, Oct. 7. Class 38.

American Chemical Paint Company, Ambler, Pa. Materials useful in eradicating weeds. Serial Nos. 627,613–14, Oct. 7. Class 6.

American Reenforced Paper Company, Attleboro, Mass. Reenforced paper. Serial No. 553,058, Oct. 7. Class 37.

American Society of Tool Engineers, Detroit, Mich. Tool engineering. Serial No. 570,033, Oct. 7. Class 100.

American Stores Company, Philadelphia, Pa. Lard, ring bologna, liver sausage, etc. Serial No. 603,146, Oct. 7. Class 46.

Amherst Fuel Company, Charleston, W. Va. Coal. Serial No. 616,888, Oct. 7. Class 1.

Ammco Tools, Inc., North Chicago, Ill. Brake shoe grinders, valve tappet grinders, etc. Serial No. 614,977, Oct. 7. Class 23.

Anaconda Wire and Cable Company, New York, N. Y. Electric wires and cables. Serial No. 612,941, Oct. 7. Class 21.

Anderson, Harold N., executor: *See*—
Lindblad, Allan P.

Armstrong Paint & Varnish Works, Chicago, Ill. Paints, varnishes, and enamels. Serial No. 619,529, Oct. 7. Class 16.

Associated Transport, Inc., New York, N. Y., and at numerous other locations throughout the eastern part of the United States. Transportation of freight by motor truck. Serial No. 590,872, Oct. 7. Class 105.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Corrosion resistant coating composition. Serial No. 611,256, Oct. 7. Class 16.

Atlas Powder Company, Wilmington, Del. Food emulsifiers. Serial No. 600,715, Oct. 7. Class 46.

Bachmann Uxbridge Worsted Corporation, New York, N. Y. Tropical worsted fabrics in the piece. Serial No. 615,810, Oct. 7. Class 42.

Baker and Company, Incorporated, Newark, N. J. Catalysts. Serial No. 623,450, Oct. 7. Class 6.

Baltimore Paint & Color Works, Baltimore, Md. Floor paint. Serial No. 624,323, Oct. 7. Class 16.

Baray Pharmacal Corporation, Brooklyn, N. Y. Tablets taken internally. Serial No. 612,296, Oct. 7. Class 18.

Barnett & Jaffe, Philadelphia, Pa. Photographic slide file cases. Serial No. 607,478, Oct. 7. Class 26.

Barrett, John R., Plymouth, Ind. Insect repellent. Serial No. 618,284, Oct. 7. Class 6.

Barry, Donald, Productions, Inc., Los Angeles, Calif. Boxes of pencils. Serial No. 617,857, Oct. 7. Class 37.

Behr-Manning Corporation, Troy, N. Y. Auto body compositions. Serial No. 620,083, Oct. 7. Class 12.

Bel Paese Sales Co. Inc., New York, N. Y. Cheese. Serial No. 613,044, Oct. 7. Class 46.

Berkeley Pump Company, Berkeley, Calif. Water pumping systems, pumps and pressure tanks and parts thereof. Serial No. 556,394, Oct. 7. Class 23.

Bigelow-Liptak Corporation, Detroit, Mich. Industrial furnace casings. Serial No. 605,890, Oct. 7. Class 12.

Binney & Smith Company, New York, N. Y. Chalk crayon. Serial No. 623,870, Oct. 7. Class 37.

Bioresearch Laboratories: *See*—
Chiego, Bernard.

Birmingham Ornamental Iron Co., Inc., Birmingham, Ala. Ornamental metal castings. Serial No. 595,589, Oct. 7. Class 12.

Blue Bell, Inc., Greensboro, N. C. Men's and boys' overalls, dungarees, and outer shirts. Serial No. 622,984, Oct. 7. Class 39.

Blue Bell, Inc., Greensboro, N. C. Kiddies' and girls' dungarees, overalls, and boxer longies. Serial No. 622,986, Oct. 7. Class 39.

Blue Bell, Inc., Greensboro, N. C. Children's dungarees, overalls, and pants and outer shorts. Serial No. 624,461, Oct. 7. Class 39.

Boston Strause, Inc., assignor to Monroe Boston Strause, San Diego, Calif. Consultation services rendered to baking companies and restaurants. Serial No. 576,843, Oct. 7. Class 100.

Breck, John H., Inc., Springfield, Mass. Hair conditioning cream. Serial No. 564,708, Oct. 7. Class 51.

Breier, Marcus, Sons, Inc., Amsterdam, N. Y. Men's and women's jackets and trousers. Serial No. 619,185, Oct. 7. Class 39.

Buck Tool Company, Kalamazoo, Mich. Adaptable lathe and universal chucks. Serial No. 607,617, Oct. 7. Class 23.

Bullard Clark Company, The, Danielson, Conn. Loom supplies. Serial No. 584,440, Oct. 7. Class 23.

Burke & James, Inc., Chicago, Ill. Cameras. Serial No. 604,561, Oct. 7. Class 26.

Canada Cycle and Motor Company Limited, Weston, Ontario, Canada. Ice skates. Serial No. 598,573, Oct. 7. Class 22.

Cappiello, Frank, Schenectady, N. Y. Cheese. Serial No. 619,737, Oct. 7. Class 46.

Car Blocking Incorporated, St. Louis, Mo. Blocking anchors. Serial No. 622,801, Oct. 7. Class 13.

Cassella Farbwerke Mainkur, Frankfurt (Main)-Fechenheim, Germany. Textile auxiliaries. Serial No. 609,781, Oct. 7. Class 6.

Cassella Farbwerke Mainkur, Frankfurt (Main)-Fechenheim, Germany. Chemical products. Serial No. 614,815, Oct. 7. Class 6.

Cassella Farbwerke Mainkur, Frankfurt (Main)-Fechenheim, Germany. Chemical agents. Serial No. 614,817, Oct. 7. Class 6.

Central O-B Products Co. Inc., Buffalo, N. Y. Metal cleaner. Serial No. 611,502, Oct. 7. Class 52.

Chicken Delight Inc., Rock Island, Ill. Cooked chicken. Serial Nos. 628,845–7, Oct. 7. Class 46.

Chicopee Manufacturing Corporation of New Hampshire, New Brunswick, N. J., assignor to Chicopee Mills, Inc., New York, N. Y. Non-woven textile fabric, towels and napkins. Serial No. 615,369, Oct. 7. Class 42.

Chicopee Mills, Inc., assignee: *See*—
Chicopee Manufacturing Corporation of New Hampshire.

Chiego, Bernard, doing business under the names of Bioresearch Laboratories, Newark, N. J. Preparation that can be used for external application for bed sores and other external infections, etc. Serial No. 575,243, Oct. 7. Class 18.

Columbus Coated Fabrics Corporation, Columbus, Ohio. Oilcloth. Serial No. 612,791, Oct. 7. Class 20.

Consolidated Grocers Corporation, Chicago, Ill. Canned fruits, and canned vegetables. Serial No. 600,765, Oct. 7. Class 46.

Consolidated Manufacturing Corporation, New Orleans, La. Mops. Serial No. 607,701, Oct. 7. Class 29.

Crowther, Arlis L., North Hollywood, Calif. Ladies' treated cloth head coverings. Serial No. 594,695, Oct. 7. Class 39.

Crutcher-Rolfs-Cummings, Inc., Houston, Tex. Pipe coating and wrapping machines, bending machines, cleaning machines, etc. Serial No. 596,395, Oct. 7. Class 23.

Cutler, S., & Sons, Inc., New York, N. Y. Ladies' clothing. Serial No. 626,199, Oct. 7. Class 39.

Cutter Products, Oakland, Calif. Liquid cleanser. Serial No. 578,915, Oct. 7. Class 52.

Dairy Ill Products Company: *See*—
McCormack, Ralph D.

Davis, Aaron, Harwichport, Cape Cod, Mass. Weather measuring instruments and indicators. Serial No. 583,680, Oct. 7. Class 26.

Davison Chemical Corporation, The, Baltimore, Md. Contacting agent for treatment of gases, liquids, or solids. Serial No. 627,049, Oct. 7. Class 6.

Del-Mint, Inc., Philadelphia, Pa. Creamy cushion mint candy. Serial No. 624,935, Oct. 7. Class 46.

Detrex Corporation, Detroit, Mich. Mechanical cleaning booths, degreasing machines, solvent distilling and recovery units, etc. Serial No. 546,969, Oct. 7. Class 23.

Ditto, Incorporated, Chicago, Ill. Partially printed business forms. Serial No. 615,927, Oct. 7. Class 37.

Donovan Enterprises, Saugatuck, Conn. Diaries. Serial No. 622,148, Oct. 7. Class 37.

Duro Metal Products Co., Chicago, Ill. Hand tools. Serial No. 621,261, Oct. 7. Class 23.

Eagle Clothes, Inc., New York, N. Y. Men's clothing. Serial Nos. 628,929–30. Oct. 7. Class 39.

Eastern Isles, Inc., The, New York, N. Y. Women's and children's garments. Serial No. 620,593, Oct. 7. Class 39.

Ellen, Vern G., Company, Minneapolis, Minn. Material handling equipment. Serial No. 598,839, Oct. 7. Class 23.

Ellmore Silver Co., Inc., The, Meriden, Conn. Trays or coasters made partly of sterling silver and partly of china. Serial No. 601,351, Oct. 7. Class 28.
Englander Company, Inc., The, Chicago, Ill. Mattresses and box springs. Serial No. 625,413, Oct. 7. Class 32.
Erving Paper Mills, Erving, Mass. Paper napkins. Serial No. 623,187, Oct. 7. Class 37.
Erving Paper Mills, Erving, Mass. Paper napkins, toilet paper and paper towels. Serial No. 626,318, Oct. 7. Class 37.
Eston Chemicals, Inc., Los Angeles, Calif. Insecticides. Serial No. 627,627, Oct. 7. Class 6.
Eston Chemicals, Inc., Los Angeles, Calif. Blend of materials for use in the preparation of insecticide dusts. Serial No. 627,628, Oct. 7. Class 6.
Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Chemical flux composition. Serial No. 631,984, Oct. 7. Class 6.
Expanded Rubber Company Limited, Croydon, Surrey, England. Cellular rubber and cellular resin materials. Serial No. 610,052, Oct. 7. Class 1.
Federated Department Stores, Inc., Cincinnati, Ohio. Men's clothing, women's clothing, children's clothing. Serial No. 623,133, Oct. 7. Class 39.
Fernstrom Paper Mills, Inc., Pomona, Calif. Paper napkins, paper fruit wrappers, waxed paper, etc. Serial No. 601,320, Oct. 7. Class 37.
Firelure Corporation: *See*—
Firelure Corporation, The.
Firelure Corporation, The, sometimes doing business as Firelure Corporation, San Francisco, Calif. Fluorescent lacquer enamel. Serial No. 589,503, Oct. 7. Class 16.
Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals used as a base or an ingredient in perfumery. Serial Nos. 617,606–09, Oct. 7. Class 51.
Fleetwood Coffee Co., Chattanooga, Tenn. Coffee. Serial No. 628,084, Oct. 7. Class 46.
Fleming-Hall Tobacco Co., Inc., New York, N. Y. Cigarettes and smoking tobacco. Serial No. 611,066, Oct. 7. Class 17.
Fran-Stef Manufacturing Co., New York, N. Y. Handbags. Serial Nos. 625,009–10, Oct. 7. Class 3.
Freund, Fred, Co. Inc., New York, N. Y. Jackets, play shirts and slacks. Serial No. 624,407, Oct. 7. Class 39.
Fulton Smoked Fish Company, Chicago, Ill. Smoked salmon. Serial No. 554,105, Oct. 7. Class 46.
General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Wheat flour. Serial No. 624,738, Oct. 7. Class 46.
Gielow, J. J., & Sons, Inc., Detroit, Mich. Pickles. Serial No. 584,194, Oct. 7. Class 46.
Golden Age Company, The: *See*—
Smith, Sewall.
Goodman & Theise, Inc., New York, N. Y. Piece goods. Serial No. 630,491, Oct. 7. Class 42.
Great Atlantic and Pacific Tea Company, The, New York, N. Y. Tea. Serial No. 628,939, Oct. 7. Class 46.
Griggs, Cooper & Company, St. Paul, Minn. Olives, fruit preserves, jams, etc. Serial No. 618,963, Oct. 7. Class 46.
Group Health Mutual Incorporated, St. Paul, Minn. Underwriting of insurance. Serial No. 613,003, Oct. 7. Class 102.
Hackl, Alphons J., Washington, D. C. Mailing envelopes, writing paper. Serial No. 625,269, Oct. 7. Class 37.
Haloid Company, The, Rochester, N. Y. Maintenance and repair of copying machines and equipment. Serial No. 610,558, Oct. 7. Class 103.
Hansche Produce Company, Racine, Wis. Potatoes and onions. Serial No. 612,166, Oct. 7. Class 46.
Hardeman Milling Company, McAlester, Okla. Hen feed; and dairy feed and poultry feed. Serial No. 622,743, Oct. 7. Class 46.
Harrison, A. S., Company, The, South Norwalk, Conn. Floor mops. Serial No. 596,421, Oct. 7. Class 29.
Heltzel Steel Form and Iron Co., The, Warren, Ohio. Leasing and servicing of road building equipment. Serial No. 558,389, Oct. 7. Class 103.
Hillman, David, doing business as Hillman Pharmaceutical Co., Chicago, Ill. Medication. Serial No. 607,021, Oct. 7. Class 18.
Hillman Pharmaceutical Co.: *See*—
Hillman, David.
Howells, David J., Calgary, Alberta, Canada. Chemical preparation for the preservation, softening, cleaning, and lubricating of carbon and wire wound electrical devices. Serial No. 610,789, Oct. 7. Class 52.
Hydropress, Inc., New York, N. Y. Presses. Serial No. 623,305, Oct. 7. Class 23.
Hygrade Food Products Corporation, Detroit, Mich. Pasteurized process cheese spread. Serial No. 623,890, Oct. 7. Class 46.
Illinois Fibre Specialty Company, Chicago, Ill. Fibre board padding for chair backs and seats, tables, etc. Serial No. 617,347, Oct. 7. Class 32.
Imperial Chemical Industries Limited, London and Millbank, London, England. Detergents. Serial No. 594,793, Oct. 7. Class 52.
Irving Air Chute Co., Inc., Buffalo, N. Y. Parachute equipment. Serial No. 523,031, Oct. 7. Class 19.
Jeffrey Manufacturing Company, The, Columbus, Ohio. Conveyors. Serial No. 616,767, Oct. 7. Class 23.
Johnston, Margaret W., Fort Worth, Tex. Children's jackets, children's overalls, and children's boxer shorts. Serial No. 609,482, Oct. 7. Class 39.
Jones, Eugenie J., Webster Groves, Mo. Note-paper. Serial No. 593,490, Oct. 7. Class 37.
Kay Cookie Company: *See*—
Suprise, Arthur.
Killgore, Charles, Company, Inc., Yonkers, N. Y. Salad dressing. Serial No. 619,390, Oct. 7. Class 46.
King Leathers Incorporated, Indiana, Pa. Purses, wallets, and pocketbooks. Serial No. 615,838, Oct. 7. Class 3.
Kingston Pencil Corporation, Chattanooga, Tenn. Nonmechanical pencils. Serial No. 622,546, Oct. 7. Class 37.
Knudsen Creamery Co. of California, Los Angeles, Calif. Dairy products. Serial No. 611,439, Oct. 7. Class 46.
Koesting, Grete, assignor to Your Birth-Sign, Inc., New York, N. Y. Candy. Serial No. 615,123, Oct. 7. Class 46.
Kraft Foods Limited: *See*—
Kraft Walker Cheese Company Proprietary Limited.
Kraft Walker Cheese Company Proprietary Limited, South Melbourne, Victoria, Australia, now by change of name Kraft Foods Limited. Dried milk food. Serial No. 601,108, Oct. 7. Class 46.
Kurtzman Brothers, Los Angeles, Calif. Men's suits, and topcoats. Serial No. 628,282, Oct. 7. Class 39.
La Poff, Harry S., Paterson, N. J. Fresh parsley. Serial No. 626,890, Oct. 7. Class 46.
Larus & Brother Company, Richmond, Va. Smoking tobacco and cigarettes. Serial No. 626,464, Oct. 7. Class 17.
Leaf Brands, Inc., Chicago, Ill. Candy and cookies. Serial No. 627,690, Oct. 7. Class 46.
Leavitt, John W., Company, Boston, Mass. Peanut butter, salted nut meats and candy. Serial No. 609,685, Oct. 7. Class 46.
Lexington Manufacturing Company, Lexington, N. C. Men's sportshirts. Serial No. 619,578, Oct. 7. Class 39.
Lindblad, Allan P., deceased, Boston, doing business as Sudbury Brass Goods Company; M. Lindblad, Winchester, and H. N. Anderson, Arlington, Mass., executors. Altar sets. Serial No. 607,389, Oct. 7. Class 50.
Lindblad, Madeleine, executrix: *See*—
Lindblad, Allan P.
Linal Plastics Corporation, New York, N. Y. Puzzle key chains. Serial No. 627,691, Oct. 7. Class 13.
Lipscomb Grain & Seed Co.: *See*—
Lipscomb Grain & Seed Co, Inc.
Lipscomb Grain & Seed Co. Inc., doing business under the style name of Lipscomb Grain & Seed Co., Springfield, Mo. Hog feeds, dairy feed, poultry feed, etc. Serial No. 614,257, Oct. 7. Class 46.
Little League Baseball, Inc., New York, N. Y. Promoting and developing sportsmanship, team play, and athletic ability. Serial No. 622,113, Oct. 7. Class 100.
Luma-Rim Corporation, Oakland, Calif. Luminous safety device to be applied to motor vehicle doors. Serial No. 612,022, Oct. 7. Class 19.
Margolin, Harry, Shirt Corporation, New York, N. Y. Men's and boys' dress and sport shirts. Serial No. 617,045, Oct. 7. Class 39.
Marklewicz, Anna V., St. Louis, Mo. Textile mats. Serial No. 608,255, Oct. 7. Class 42.
Mavest Inc., New York, N. Y. Men's sport jackets, suits and coats. Serial No. 627,207, Oct. 7. Class 39.
McCormack, Ralph D., doing business as Dairy Hi Products Company, Atlanta, Ga. Chocolate flavored maltless soft drink. Serial No. 589,101, Oct. 7. Class 45.
McKee Glass Company, Jeannette, Pa., now by merger, Thatcher Glass Manufacturing Company, Inc. Glass carafes. Serial No. 603,488, Oct. 7. Class 33.
Mennen Company, The, Newark, N. J. Hair oil preparation. Serial No. 597,770, Oct. 7. Class 51.
Mennen Company, The, Newark, N. J. Shaving creams. Serial No. 597,771, Oct. 7. Class 51.
Meyer, Richard L., doing business as R-L-M Printing Company, Minot, N. Dak. Letter heads, partially printed statement sheets, partially printed labels, etc. Serial Nos. 584,501–2, Oct. 7. Class 37.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Masking paper. Serial No. 584,990, Oct. 7. Class 37.
Miron Mills, Inc., Clinton, Mass. Woolen piece goods. Serial Nos. 630,332–4, Oct. 7. Class 42.
Modern Metal Products Company, Greensboro, N. C. Oil display-service cabinets. Serial No. 624,556, Oct. 7. Class 32.
Modern Tissues Corp., New York, N. Y. Facial tissues, toilet tissues and paper towels. Serial No. 611,138, published Oct. 7. Class 37.
Moeller Mfg. Co., Inc., Racine, Wis. Stoppers for vacuum and other bottles. Serial No. 623,976, Oct. 7. Class 50.
Molson's Brewery Limited, Montreal, Quebec, Canada. Ale and porter. Serial No. 626,400, Oct. 7. Class 48.
Monroe Boston Strause, assignee: *See*—
Boston Strause, Inc.
Nash Inc., Jersey City, N. J., and Paris, France. Wallets, purses, billfolds, etc. Serial No. 625,213, Oct. 7. Class 3.
National Association of Secondary-School Principals, Washington, D. C. Stimulating and maintaining interest in good scholarship among students, etc. Serial Nos. 536,418–19, Oct. 7. Class 100.

National Distillers Products Corporation, New York, N. Y. Mixture of distillers' dried grains and solubles. Serial No. 603,808, Oct. 7. Class 46.
National Exchange Club, The, Toledo, Ohio. Improving and developing the capabilities of the members of the chartered clubs, etc. Serial Nos. 589,672–3, Oct. 7. Class 100.
National Shirt Shops of Delaware, Inc., New York, N. Y. Men's dress and negligee shirts and underwear. Serial No. 585,974, Oct. 7. Class 39.
National Sure-Fit Quilting Co, Inc., New York, N. Y. Quilted mattress pads and protectors. Serial No. 630,016, Oct. 7. Class 42.
Nestlé Company, Inc., The, Colorado Springs, Colo. Dehydrated food product. Serial No. 615,393, Oct. 7. Class 46.
Northern Premium Stamp Company, Portland, Oreg. Trading stamps. Serial No. 624,564, Oct. 7. Class 38.
Oberman Fabrics, Inc., New York, N. Y. Piece goods. Serial No. 630,343, Oct. 7. Class 42.
Ohio Confection Company, The, also doing business as Ohio Confection Sales Co., Cleveland, Ohio. Assorted candies. Serial No. 610,091, Oct. 7. Class 46.
Ohio Confection Sales Co.: *See*—
Ohio Confection Company, The.
Olivo Co., Inc., The, Philadelphia, Pa. Hair oil pomade, hair tonic, face lotion, etc. Serial No. 615,654, Oct. 7. Class 51.
Orkin Exterminating Co., Inc., Atlanta, Ga. Ridding property and structures of termites, pests and rodents, etc. Serial No. 621,329–30, Oct. 7. Class 103.
Orkin Exterminating Co., Inc., Atlanta, Ga. Ridding property and structures of termites, pests, and rodents, etc. Serial Nos. 622,614–17, Oct. 7. Class 103.
Orkin Exterminating Co., Inc., Atlanta, Ga. Ridding property and structures of termites, pests and rodents, etc. Serial Nos. 623,065–6, Oct. 7. Class 103.
Orr & Sembower, Inc., Reading, Pa. Fluid fuel burners. Serial No. 627,830, Oct. 7. Class 34.
Paper Machinery and Research, Inc., Roselle, N. J. Electronic printing presses. Serial No. 614,460, Oct. 7. Class 23.
Parker Rust Proof Company, Detroit, Mich. Soap-like chemical composition. Serial No. 617,209, Oct. 7. Class 6.
Patterson, Marguerite M., Los Angeles, Calif. Infant's combined sleeping bag and cushion. Serial No. 626,954, Oct. 7. Class 32.
Paul, Jon, Pharmaceutical Distributing Company, Inc., Chicago, Ill. Dietary supplement. Serial No. 631,163, Oct. 7. Class 18.
Paulson Manufacturing Company, Fallbrook, Calif. Goggles. Serial No. 616,800, Oct. 7. Class 26.
Pax Products, Inc., Brooklyn, N. Y. Ash receivers. Serial No. 626,745, Oct. 7. Class 8.
Pearson Pharmacal Company, Inc., New York, N. Y. Preparation which is used as an ingredient for an ingestible pill, containing chlorophyll. Serial No. 601,459, Oct. 7. Class 18.
Peoples Drug Stores, Inc., Washington, D. C. Candy. Serial No. 628,506, Oct. 7. Class 46.
Philadelphia Brief Case Co., Philadelphia, Pa. Handles for luggage. Serial No. 623,032, Oct. 7. Class 3.
Philadelphia Equipment Company: *See*—
Steel, Sam.
Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. Serial No. 626,956, Oct. 7. Class 6.
Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. Serial No. 627,968, Oct. 7. Class 6.
Pierce's Proprietaries, Inc., Buffalo, N. Y. Iron and stomachic tonic and dietary supplement preparation. Serial No. 611,972, Oct. 7. Class 18.
Plax Corporation, West Hartford, Conn. Bottles. Serial No. 619,409, Oct. 7. Class 2.
Plibrico Company: *See*—
Plibrico Jointless Firebrick Company.
Plibrico Jointless Firebrick Company, Chicago, Ill., now by change of name Plibrico Company. Castable refractory material. Serial No. 609,450, Oct. 7. Class 12.
Pneumatic Scale Corporation, Limited, Quincy, Mass. Mechanically operated packaging machinery. Serial No. 597,863, Oct. 7. Class 23.
Popcorn Procesing Company: *See*—
Stine, Lee E.
Practical Products Co., Minneapolis, Minn. Coin-operated soft drink dispensing machines. Serial No. 616,385, Oct. 7. Class 23.
R-L-M Printing Company: *See*—
Meyer, Richard L.
Radio Corporation of America, New York, N. Y. Instructing in television servicing by means of a correspondence course. Serial No. 617,813, Oct. 7. Class 107.
Republic Molding Corporation, Chicago, Ill. Plastic receptacles and housewares. Serial No. 611,106, Oct. 7. Class 2.
Revlon Products Corporation, New York, N. Y. Nail enamel and lipstick. Serial No. 622,847, Oct. 7. Class 51.
Rich-Roth Laboratories, East Hartford, Conn. Instrument comprising a probe and electronic computer. Serial No. 625,630, Oct. 7. Class 26.
Rival Manufacturing Company, Kansas City, Mo. Mounting brackets. Serial No. 625,820, Oct. 7. Class 13.

Robbins Mills, Inc., New York, N. Y. Piece goods. Serial No. 615,464, Oct. 7. Class 42.
Robinson Syrup Co, Inc., Cairo, Ga. Table syrup. Serial No. 587,976, Oct. 7. Class 46.
Romanoff Caviar Company, New York, N. Y. Preparation for making a drink having a mock beef flavor. Serial No. 624,899, Oct. 7. Class 46.
Rosenblatt and Kahn, Inc., New York, N. Y. Children's coats, snow suits, suits, etc. Serial No. 612,417, Oct. 7. Class 39.
Ross, Will, Inc., Milwaukee, Wis. Medicated hospital lotion. Serial No. 308,084, Oct. 7. Class 18.
Roth, Otto, & Co., Inc., New York, N. Y. Cheese. Serial No. 624,760, Oct. 7. Class 46.
Rourke, Jack, doing business as Jack Rourke Productions, Hollywood, Calif. Originating and producing of radio and television shows. Serial No. 559,778, Oct. 7. Class 107.
Rourke, Jack, Productions: *See*—
Rourke, Jack.
Russell Reinforced Plastic Corporation, Hicksville, N. Y. Low pressure moulded large flat sheets and corrugated flat sheets. Serial No. 619,585, Oct. 7. Class 12.
Russell Reinforced Plastics Corporation, Hicksville, N. Y. Low pressure moulded structural forms and shapes of glass fiber and synthetic resinous material. Serial No. 619,586, Oct. 7. Class 12.
Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Frozen fish. Serial No. 618,129, Oct. 7. Class 46.
Safeway Stores, Incorporated, Oakland, Calif. Canned cat food. Serial No. 620,859, Oct. 7. Class 46.
Safeway Stores, Incorporated, Oakland, Calif. Ice cream. Serial No. 628,296, Oct. 7. Class 46.
Safeway Stores, Incorporated, Oakland, Calif. Table syrup. Serial No. 628,829, Oct. 7. Class 46.
Saxon Paper Products Inc., New York, N. Y. Bond paper. Serial No. 622,228, Oct. 7. Class 37.
Schenck, William, & Company, Inc., Evans City, Pa. Kitchen and bathroom cabinets and kitchen counter tops. Serial No. 581,989, Oct. 7. Class 32.
Sears, Roebuck and Co., Chicago, Ill. Drain pipe cleaner and liquid rust preventive. Serial No. 570,515, Oct. 7. Class 52.
Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Fountain pines, mechanical pencils and ball point pens. Serial No. 604,268, Oct. 7. Class 37.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints (liquid, paste, semi-paste) and paint enamel. Serial No. 555,311, Oct. 7. Class 16.
Singer Manufacturing Company, The, Elizabeth, N. J. V-belts, cord belts, composition belts, etc. Serial No. 628,574, Oct. 7. Class 35.
Smith, Sewall, doing business as The Golden Age Company, Lafayette, Calif. Board game played with movable pieces. Serial No. 619,367, Oct. 7. Class 22.
Smithfield Packing Company, Incorporated, The, Smithfield, Va. Bacon, sausage, cured ham, etc. Serial No. 626,644, Oct. 7. Class 46.
Societe de Produits Chimiques des Terres Rares, Paris, France. Electrolytically shining and polishing articles made of aluminum and aluminum alloys. Serial No. 593,373, Oct. 7. Class 106.
Soft-Lite Lens Company, Inc., New York, N. Y. Ophthalmic lenses and blanks. Serial No. 610,471, Oct. 7. Class 26.
Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. Serial No. 534,931, Oct. 7. Class 2.
Standard Brands Incorporated, New York, N. Y. Dough improver. Serial No. 619,953, Oct. 7. Class 46.
Stanley Home Products, Inc., Westfield, Mass. Mops. Serial No. 597,916, Oct. 7. Class 29.
Steel, Sam, doing business as Philadelphia Equipment Company, Philadelphia, Miss. Repairing saw mill equipment. Serial No. 612,520, Oct. 7. Class 103.
Stine, Lee E., trading as Popcorn Processing Company, Hagerstown, Md. Raw pop corn and popped pop corn. Serial No. 598,759, Oct. 7. Class 46.
Suchard Holding Societe Anonyme, Lausanne, Switzerland. Prepared edible chocolate. Serial Nos. 620,050–2, Oct. 7. Class 46.
Suchard Holding Societe Anonyme, Lausanne, Switzerland. Prepared edible chocolate. Serial No. 620,055, Oct. 7. Class 46.
Sudbury Brass Goods Company: *See*—
Lindblad, Allan P.
Suprise, Arthur, doing business as Kay Cookie Company, Memphis, Tenn. Cookies. Serial No. 532,523, Oct. 7. Class 46.
Suprise, Arthur, doing business as Kay Cookie Company, Memphis, Tenn. Cookies. Serial Nos. 532,525–6, Oct. 7. Class 46.
Tacro, Incorporated, New York, N. Y. Field glasses. Serial No. 625,640, Oct. 7. Class 26.
Tam O'Shanter Sportswear, Inc., Manchester, N. H. Polo shirts and shorts, and sets thereof. Serial No. 609,191, Oct. 7. Class 39.
Thatcher Glass Manufacturing Company, Inc.: *See*—
Mckee Glass Company.
Thomas Drain Service: *See*—
Thomas, Frank B.

Thomas, Frank B., doing business as Thomas Drain Service, Akron, Ohio. Plumbing services. Serial No. 571,827, Oct. 7. Class 103.

Tip Top Foods of San Francisco, Inc., Emeryville, Calif. Aerated food product viz: whipcream. Serial No. 581,628, Oct. 7. Class 46.

Tulsa Fishing Tackle Company, Tulsa, Okla. Artificial fish baits. Serial No. 564,231, Oct. 7. Class 22.

Tulsa Fishing Tackle Company, Tulsa, Okla. Artificial fish baits. Serial No. 564,234, Oct. 7. Class 22.

United States Hoffman Machinery Corporation, Syracuse and New York, N. Y. Press pads and covers. Serial No. 611,386, Oct. 7. Class 24.

United States Rubber Company, New York, N. Y. Rubber composition sheets. Serial No. 623,812, Oct. 7. Class 1.

U. S. Slicing Machine Company, Inc., La Porte, Ind. Weighing and computing scales. Serial No. 588,611, Oct. 7. Class 26.

United Wallpaper, Inc., Chicago, Ill. Wallpaper. Serial No. 618,016, Oct. 7. Class 37.

Vickery's Ltd., London, England. Vortex-type separators. Serial No. 550,276, Oct. 7. Class 23.

Vita-Food Corporation, The, Los Angeles, Calif. Cookies and vitamin fortified cookies. Serial No. 590,124, Oct. 7. Class 46.

Vitamins, Inc., Chicago, Ill. Blood plasma substitute. Serial No. 626,182, Oct. 7. Class 18.

W. & H. Jewelry Company, Providence, R. I. Jewelry. Serial No. 616,744, Oct. 7. Class 28.

Washington Steel Products, Inc., Tacoma, Wash. Metal hardware accessories. Serial No. 554,747, Oct. 7. Class 13.

Webb, Harry K., Alexandria, Minn. Gasoline and lubricating oil. Serial No. 591,265, Oct. 7. Class 15.

West Disinfecting Company, Long Island City, N. Y. Deodorant fluid. Serial No. 623,097, Oct. 7. Class 6.

West Disinfecting Company, Long Island City, N. Y. Paper towels and toilet tissue. Serial No. 625,176, Oct. 7. Class 37.

Weston Biscuit Company Inc., Passaic, N. J. Crackers. Serial No. 621,182, Oct. 7. Class 46.

Willett, Consider H., Inc., Louisville, Ky. Dining room furniture, bedroom furniture, miscellaneous household furniture. Serial No. 618,826, Oct. 7. Class 32.

Wolf Engineering Corporation, Dallas, Tex. Internal combustion engines. Serial No. 611,006, Oct. 7. Class 23.

Wood, G. H., & Company, Limited, Toronto, Ontario, Canada. Deodorant in the form of a crystalline block. Serial No. 627,290, Oct. 7. Class 6.

Your Birth-Sign, Inc., assignee: *See*—
Koesling, Grete.

Youth, Incorporated, Nashville, Tenn. Sponsoring of visits of groups of foreign youth to the United States, etc. Serial No. 608,332, Oct. 7. Class 100.

Zion Industries, Inc., Zion, Ill. Candy. Serial No. 570,345, Oct. 7. Class 46.

Zion Industries, Inc., Zion, Ill. Candy bars. Serial No. 571,308, Oct. 7. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Acme Steel Company, Chicago, Ill. Publication. 564,962, Oct. 7; Serial No. 611,992, published July 1, 1952. Class 38.

Adlerika Company, The, to Chester-Kent, Inc., St. Paul, Minn. Stomach and bowel medicine. 294,736, renewed June 7, 1952. O. G. Oct. 7. Class 18.

Alexander, John, of New Haven, New Haven, Conn. Men's coats and jackets. 564,869, Oct. 7; Serial No. 584,101, published July 8, 1952. Class 39.

Allied Stores Corporation, New York, N. Y. Hand-hooked cotton and wool rugs. 564,978, Oct. 7; Serial No. 614,027, published July 15, 1952. Class 42.

Amarillo Ice Company, Amarillo, Tex. Manufactured ice. 565,011, Oct. 7; Serial No. 617,904, published July 1, 1952. Class 1.

American Air Filter Company, Inc., Louisville, Ky. Rolls of cloth. 564,949, Oct. 7; Serial No. 610,660, published July 15, 1952. Class 42.

American Diamond Saw Company: *See*—
Longbotham, Thomas.

American Drawing Material, Inc., New York, N. Y. Crayons, pencils, pens, etc. 565,121, Oct. 7; Serial No. 624,805, published July 15, 1952. Class 37.

American Fox Breeders Association, Burlington, Wis. Fur pelts. 565,075, Oct. 7; Serial No. 621,697, published July 1, 1952. Class 1.

American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Paper towels and paper toilet tissue. 565,040, Oct. 7; Serial No. 620,562, published July 15, 1952. Class 37.

American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill. Paper towels. 565,041, Oct. 7; Serial No. 620,563, published July 15, 1952. Class 37.

American Lumberman, Inc., Chicago, Ill. Weekly periodical publication. 565,113, Oct. 7; Serial No. 623,637, published July 15, 1952. Class 38.

American Tissue Mills, Holyoke, Mass. Crepe, tissue, and toilet paper, paper napkins, etc. 298,873, renewed Nov. 8, 1952. O. G. Oct. 7. Class 37.

American Window Glass Company, Pittsburgh, Pa. Sheet glass. 294,806, renewed June 7, 1952. O. G. Oct. 7. Class 33.

American Window Glass Company, Pittsburgh, Pa. Sheet glass. 294,989–90, renewed June 14, 1952. O. G. Oct. 7. Class 33.

Anarc, Incorporated, Nashville, Tenn. Ice cream and frozen custard. 565,144, Oct. 7; Serial No. 599,479. Class 46.

Aquascutum, Limited, London, England. Ladies' coats and men's overcoats. 564,983, Oct. 7; Serial No. 614,684, published June 10, 1952. Class 39.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Lipstick, nail polish, and face, talcum, and dusting powders. 564,933, Oct. 7; Serial No. 608,910, published June 17, 1952. Class 51.

Arlin Pharmaceutical Laboratories: *See*—
Debeh, Ali.

Armour and Company, Chicago, Ill. Sole leather. 564,874, Oct. 7; Serial No. 585,905, published June 24, 1952. Class 1.

Armour and Company, Chicago, Ill. Medicines and pharmaceuticals. 564,915, Oct. 7; Serial No. 603,220, published June 17, 1952. Class 18.

Armstrong Daily Sports, Inc.: *See*—
Authority Publishing Corp.

Art Stone Fabricators: *See*—
Dufford, Harry M.

Atlas Portland Cement Company, The, Northampton, Pa., to Universal Atlas Cement Company, New York, N. Y. Bricks. 88,047, re-renewed Aug. 27, 1952. O. G. Oct. 7. Class 12.

Authority Publishing Corp., doing business as The Turf Publishing Co., to Armstrong Daily Sports, Inc., New York, N. Y. Daily publication. 290,868, renewed Jan. 19, 1952. O. G. Oct. 7. Class 38.

Autocar Company, The, Ardmore, Pa. Internal combustion engines and spare parts of same. 294,109, renewed May 17, 1952. O. G. Oct. 7. Class 23.

Avon Products, Inc. (1950), assignee: *See*—
Avon Products, Inc.

Avon Products, Inc., assignor to Avon Products, Inc. (1950), New York, N. Y. Colognes, toilet water, perfume. 564,853, Oct. 7; Serial No. 575,618, published June 17, 1952. Class 51.

Baby's Own Soap Company: *See*—
Curtis, William M.

Barron's Publishing Company, Inc., New York, N. Y. Section of a weekly publication. 564,835, Oct. 7; Serial No. 555,365, published June 24, 1952. Class 38.

Bearfoot Sole Company, Inc., The, Boston, Mass. Soles and heels. 565,043, Oct. 7; Serial No. 620,661, published July 15, 1952. Class 39.

Beaver Chemical Works, to Olo Soap Company, Inc., Beaver Dam, Wis. Powdered soap, paste soap, and a powdered general cleaning compound. 294,475, renewed May 31, 1952. O. G. Oct. 7. Class 52.

Becker, Henry, & Son, Inc., Roseland, N. J. Dairy products. 564,953, Oct. 7; Serial No. 611,072, published June 10, 1952. Class 46.

Bell, Allen, Knoxville, Tenn. Columns published in newspapers. 564,981, Oct. 7; Serial No. 614,284, published July 15, 1952. Class 38.

Bell Directory Publishers, Inc., New York, N. Y. Industrial directory, buyer's guide and classified telephone directory. 565,003, Oct. 7; Serial No. 617,432, published July 1, 1952. Class 38.

Beltx Corporation, St. Louis, Mo. 564 877, Oct. 7. Women's and girls' garters, hose supporters and blouse belts, Serial No. 588,474, published Oct. 9, 1951. Class 39; adjustable shoulder straps, brassière replacements, bragirdle fasteners, etc., Serial No. 603,874, published Mar. 4, 1952, Class 40; sanitary belts, Serial No. 588,475, published Dec. 25, 1951, Class 44. (Consolidated certificate, Classes 39, 40, and 44.)

Berwind-White Coal Mining Company, The, Philadelphia, Pa. Coal. 565,065, Oct. 7; Serial No. 621,304, published July 1, 1952. Class 1.

Bestlyne Company: *See*—
Mosen, Adolph.

Bin-Dicator Company, The, Detroit, Mich. Aerators. 564,845, Oct. 7; Serial No. 562,307, published June 17, 1952. Class 23.

Bing Gas Company, The, Kalamazoo, Mich. Liquefied petroleum gas. 564,998, Oct. 7; Serial No. 616,755, published July 15, 1952. Class 6.

Binney & Smith Company, New York, N. Y. Crayons. 565,082, Oct. 7; Serial No. 621,857, published June 17, 1952. Class 37.

Black, Mary H., New York, N. Y. Children's letters. 565,067, Oct. 7; Serial No. 621,386, published July 8, 1952. Class 38.

Blue Diamond Corporation, Los Angeles, Calif. Acoustical plaster. 565,081, Oct. 7; Serial No. 621,858, published July 1, 1952. Class 12.

Boehringer, C. H., Sohn, Ingelheim on the Rhein, Germany. Spasmolytic. 564,964, Oct. 7; Serial No. 612,434, published June 17, 1952. Class 18.

Bonney Forge and Tool Works, Allentown, Pa. Extension pieces for socket wrenches. 565,137, Oct. 7; Serial No. 571,193. Class 23.

Booth, F. E., Company, Inc., San Francisco, Calif. Canned tomato paste. 564,999, Oct. 7; Serial No. 616,845, published June 17, 1952. Class 46.

Bostwick Laboratories, Inc., Bridgeport, Conn. Chemical used to extinguish fires; insecticide and room deodorant. 564,860, Oct. 7; Serial No. 577,420, published July 15, 1952. Class 6.

Bouquet of the Month Club by Harris, Inc., New York, N. Y., by change of name from Hollenzer Florist Inc. Fresh flowers and bouquets. 564,873, Oct. 7; Serial No. 585,643, published July 1, 1952. Class 1.

Boyd, William, Beverly Hills, Calif. Children's clothing. 565,069, Oct. 7; Serial No. 621,541, published July 8, 1952. Class 39.

Bramhall Co., Inc., Pasadena, Calif. Cosmetic. 564,868, Oct. 7; Serial No. 583,983, published June 17, 1952. Class 51.

Bray Chemical Company, Los Angeles, Calif. Synthetic sulfonates of organic compounds. 565,071, Oct. 7; Serial No. 621,653, published July 8, 1952. Class 6.

Brewers' Best Associates, Inc.: *See*—
McGurk, Peter J.

Brewers' Best Inc., assignee: *See*—
McGurk, Peter J.

Bright, T. G., & Co. Limited, Township of Stamford and Niagara Falls, Ontario, Canada. Wines. 564,857, Oct. 7; Serial No. 576,622, published June 3, 1952. Class 47.

Bristol Laboratories Inc., Syracuse, N. Y., assignor to Meyer Chemical Company, Detroit, Mich. Vitamin preparation. 564,837, Oct. 7; Serial No. 558,104, published Sept. 12, 1950. Class 18.

Brown & Bigelow, St. Paul, Minn. Pocket, kitchen, and hunting knives. 564,823, Oct. 7; Serial No. 528,190, published June 17, 1952. Class 23.

Bruce Engineering Corporation, San Francisco, Calif. Can marking machines. 564,881, Oct. 7; Serial No. 590,802, published June 17, 1952. Class 23.

Bruning, Charles, Company, Inc., Teterboro, N. J. Developer used in developing color of diazo-images photo-chemically printed on paper. 565,125, Oct. 7; Serial No. 626,243, published July 8, 1952. Class 6.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling alley cleaner. 564,838, Oct. 7; Serial No. 558,856, published July 8, 1952. Class 52.

Bryn Mawr Smokers Novelty Co., Chicago, Ill. Smokers' articles. 564,875, Oct. 7; Serial No. 586,839, published July 15, 1952. Class 8.

Bubble-O-Bill Company: *See*—
Corcoran, Robert J.

Bubble-O-Bill Corporation, assignee: *See*—
Corcoran, Robert J.

C I C Enterprises, Inc., Reno, Nev. Trade certificates. 565,099–100, Oct. 7; Serial Nos. 622,694–5, published July 8, 1952. Class 38.

Cairns, Henry W., doing business as Rox Products Company, Detroit, Mich. Cement base coating. 565,063, Oct. 7; Serial No. 621,255, published July 8, 1952. Class 12.

Campana Corporation, Batavia, Ill. Lotion for the skin and hands, liquid astringent, etc. 565,006, Oct. 7; Serial No. 617,533, published July 1, 1952. Class 51.

Campana Corporation, Batavia, Ill. Lipstick, make-up preparations, and skin lotions. 565,031, Oct. 7; Serial No. 619,920, published July 8, 1952. Class 51.

Carbide and Carbon Chemicals Corporation, to Union Carbide and Carbon Corporation, New York, N. Y. Solventa. 297,849, renewed Oct. 4, 1952. O. G. Oct. 7. Class 6.

Carlisle Shoe Company, Carlisle, Pa. Ladies' and girls' shoes. 565,070, Oct. 7; Serial No. 621,543, published June 10, 1952. Class 39.

Casey Door Company, Oakland, Calif. Doors. 565,016, Oct. 7; Serial No. 618,342, published July 1, 1952. Class 12.

Central Grape Products Co., New York, assignor to T. Levy, Long Island City, N. Y. Wines. 564,854, Oct. 7; Serial No. 575,738, published July 8, 1952. Class 47.

Central O-B Products Co. Inc., Buffalo, N. Y. Perfumed deodorant blocks, moth proofing liquid, insecticide, etc. 565,089, Oct. 7; Serial No. 622,200, published July 8, 1952. Class 6.

Century Engineering Corporation, Cedar Rapids, Iowa. Hand and power operated spray pumps and power operated portable and stationary spray outfits. 564,856, Oct. 7; Serial No. 576,113, published June 17, 1952. Class 23.

Chalmers Chemical Company, Newark, N. J. Preparation for removing ink, dirt and grease. 564 846, Oct. 7; Serial No. 564,034, published July 1, 1952. Class 52.

Charlotte, Charles, Inc., Evanston, Ill. Confections in the nature of cookies. 564,929, Oct. 7; Serial No. 608,342, published June 24, 1952. Class 46.

Chatham Manufacturing Company: *See*—
Textron Inc.

Checker Stores, Inc., Cincinnati, Ohio. Installation, maintenance and repair of automotive equipment. 565,128, Oct. 7; Serial No. 582,674, published July 15, 1952. Class 103.

Chesapeake Shoe Mfg. Co., The, Baltimore, Md., Women's shoes. 565,028, Oct. 7; Serial No. 619,740, published June 10, 1952. Class 39.

Chester-Kent, Inc.: *See*—
Adlerika Company, The.

Chicopee Manufacturing Corporation, assignee: *See*—
Chicopee Manufacturing Corporation of New Hampshire.

Chicopee Manufacturing Corporation of New Hampshire, New Brunswick, N. J., assignor to Chicopee Mills, Inc., New York, N. Y. Non-woven textile fabrics, towels, and napkins. 564,987, Oct. 7; Serial No. 615,370, published July 15, 1952. Class 42.

Chicopee Manufacturing Corporation of New Hampshire, assignor to Chicopee Manufacturing Corporation, New Brunswick, N. J. Non-woven textile fabrics, table napkins, table cloths, etc. 564,988, Oct. 7; Serial No. 615,371, published July 15, 1952. Class 42.

Chicopee Mills, Inc., assignee: *See*—
Chicopee Manufacturing Corporation of New Hampshire.

China Doll Company: *See*—
Hutchings, Norman W., Sr., and N. W. Hutchings, Jr.

Chisholm & Co., Glasgow, Scotland. Scotch whisky. 565,025, Oct. 7; Serial No. 619,602, published June 24, 1952. Class 49.

Christy Company, The, Fremont, Ohio. Pocket knives, safety razor blades, and safety razors. 564,965, Oct. 7; Serial No. 612,588, published June 17, 1952. Class 23.

Chrysler Corporation, Highland Park, Mich. Cylinder blocks, cylinder heads, pistons, etc. 298,920, renewed Nov. 15, 1952. O. G. Oct. 7. Class 23.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparation. 564,866, Oct. 7; Serial No. 582,276, published May 13, 1952. Class 18.

Cities Service Oil Company, Bartlesville, Okla. Core and mold washes. 564,966, Oct. 7; Serial No. 612,790, published July 8, 1952. Class 1.

Clarostat Mfg. Co., Inc., Dover, N. H. Periodical. 565,034, Oct. 7; Serial No. 620,143, published July 1, 1952. Class 38.

Clover Farm Stores: *See*—
Grocers & Producers Co., The.

Clover Farm Stores Corporation: *See*—
Grocers & Producers Co., The.

Cluett, Peabody & Co., Inc., Troy, N. Y. Men's and boys' outer shirts, undershirts and under shorts. 564,984, Oct. 7; Serial No. 614,753, published Feb. 19, 1952. Class 39.

Coalite and Chemical Products Limited, London, England. Bituminous and mastic materials. 564,895, Oct. 7; Serial No. 596,714, published July 1, 1952. Class 12.

Cohen, Bob, Co., The: *See*—
Cohen, Robert L.

Cohen, Robert L., doing business as The Bob Cohen Co., Buffalo, N. Y. Men's and boys' neckties, belts, suspenders, etc. 564,930, Oct. 7; Serial No. 608,448, published July 1, 1952. Class 39.

Coleman Company, Inc., The: *See*—
Coleman Lamp and Stove Company, The.

Coleman Lamp and Stove Company, The, to Coleman Company, Inc., The, Wichita, Kans. Gasoline burning lamps, lanterns, heaters, etc. 295,262, renewed June 28, 1952. O. G. Oct. 7. Class 34.

Columbus Plastic Products, Inc., Columbus, Ohio. Drinking glass coasters, kitchen canister sets, ornamental holders, etc. 564,913, Oct. 7; Serial No. 602,598, published Apr. 29, 1952. Class 2.

Consolidated Sewing Machine and Supply Co., Inc., New York, N. Y. Fabric working machines. 564,865, Oct. 7; Serial No. 580,926, published June 17, 1952. Class 23.

Continental Oil Company, Ponca City, Okla. Lubricating oil. 292,122, renewed Mar. 1, 1952. O. G. Oct. 7. Class 15.

Continental Oil Company, Ponca City, Okla. Lubricating oil. 292,519, renewed Mar. 15, 1952. O. G. Oct. 7. Class 15.

Continental Oil Company, Ponca City, Okla. Lubricating oil. 292,596–7, renewed Mar. 15, 1952. O. G. Oct. 7. Class 15.

Corcoran, Robert J., doing business as Bubble-O-Bill Company, Beverly Hills, assignor to Bubble-O-Bill Corporation, Los Angeles, Calif. Children's helmets, gloves, shoes, etc. 564,945, Oct. 7; Serial No. 610,260, published July 1, 1952. Class 39.

Corner, Jas., & Sons, to J. A. Reilly, doing business as Jas. Corner & Sons, Baltimore, Md. Pine tar. 83,898, re-renewed Oct. 24 1951. O. G. Oct. 7. Class 6.

Courage School: *See*—
Sandler, Rose.

Coverley Laboratories, Inc., New York, N. Y. Ammoniated dental cream. 565,017. Oct. 7; Serial No. 618,389, published July 8, 1952. Class 51.

Cresca Company, Inc., New York, N. Y. Anchovy paste, apple sauce, artichoke bottoms, etc. 564,902, Oct. 7; Serial No. 599,555, published June 17, 1952. Class 46.

Cross, Leo H., San Bernardino, Calif. Syndicated articles in newspapers, periodicals, and magazines. 564,883, Oct. 7; Serial No. 592,075, published July 1, 1952. Class 38.

Crown Cork & Seal Company, Inc., Baltimore, Md. Container closures. 298,911, renewed Nov. 15, 1952. O. G. Oct. 7. Class 50.

Crown Williamette Paper Company: *See*—
Crown Zellerbach Corporation.

Crown Zellerbach Corporation, also doing business as Crown Williamette Paper Company. San Francisco, Calif. Paper tray covers. 565,007, Oct. 7; Serial No. 617,601, published July 15, 1952. Class 37.

Cuba Industrial y Comercial, S. A., doing business as Vilaplana Guerrero y Cia., Habana, Cuba. Chocolate. 293,774, renewed May 3, 1952. O. G. Oct. 7. Class 46.

Cuba Industrial y Comercial, S. A., doing business as Hijos de Baguer, Habana, Cuba. Chocolate. 293,775, renewed May 3, 1952. O. G. Oct. 7. Class 46.

Curtis, Dorothy S., Washington, D. C. Outer wear shorts for men, women, and children. 564,942, Oct. 7; Serial No. 609,789, published June 10, 1952. Class 39.

Curtis, William M., doing business as Baby's Own Soap Company, Belmont, Mass., to The J. B. Williams Company, Glastonbury, Conn. Toilet soap. 296,083, renewed July 19, 1952. O. G. Oct. 7. Class 52.

Davis Enterprises, Inc., Dayton, Ohio. Vitamin concentrates, dry vitamin fortifiers, animal proteins, etc. 565,136, Oct. 7; Serial No. 550,221. Class 18.

Dearborn Supply Company, Chicago, Ill. Face cream. 564,961, Oct. 7; Serial No. 611,945, published June 17, 1952. Class 51.

Debeh, Ali, doing business as Arlin Pharmaceutical Laboratories, North Chicago, Ill. Liniment preparation. 565,046, Oct. 7; Serial No. 620,804, published June 17, 1952. Class 18.

De Van, Arthur H., Jr., doing business as Durable Putty Products Co., St. Louis, Mo. Non-vulcanizable caulking compound. 564,897, Oct. 7; Serial No. 597,257, published Nov. 27, 1951. Class 12.

Dillinger, Mildred J., Baldwin, N. Y. Powdered preparation to alleviate the pains, stiffness, etc., of arthritis, rheumatism, etc. 564,928, Oct. 7; Serial No. 608,057, published June 17, 1952. Class 18.

Doane Agricultural Service, Inc., St. Louis, Mo. Publication. 565,035, Oct. 7; Serial No. 620,199, published July 1, 1952. Class 38.

Dobais, Jacques, Inc., New York, N. Y. Perfume, eau de cologne, toilet water, etc. 564,959, Oct. 7; Serial No. 611,775, published June 17, 1952. Class 51.

Dodge & Olcott, Inc., New York, N. Y. Vanilla and other flavor bases for use in the manufacture of maltless soft drinks. 564,970. Oct. 7; Serial No. 613,056, published June 10, 1952. Class 45.

Donaldson, James E., Chicago, Ill. Mounting material for a wall support comprising a strip of latex material with two sides thereof treated to receive adhesive material. 565,138, Oct. 7; Serial No. 572,730. Class 5.

Dormeuil Freres, London, England, and Paris, France. Suits, trousers, outer shirts and under shirts, etc. 564,903, Oct. 7; Serial No. 599,558, published June 3, 1952. Class 39.

Duart Manufacturing Co., Ltd., San Francisco, Calif. Permanent wave solution. 564,946, Oct. 7; Serial No. 610,262, published July 8, 1952. Class 51.

Dufford, Harry M., doing business under the name and style of Art Stone Fabricators, Chicago, Ill. Applying a plastic facing to the walls of buildings. 565,132, Oct. 7; Serial No. 600,578, published July 15, 1952. Class 103.

Duncan, Donald F., Incorporated, Chicago, Ill. Bandelore toy spinning tops. 565,098, Oct. 7; Serial No. 622,643, published July 15, 1952. Class 22.

Durable Putty Products Co.: *See*—
De Van, Arthur H., Jr.

Eagle Shoe Mfg. Company, Inc., Everett, Mass. Men's and boys' leather shoes. 565,064, Oct. 7; Serial No. 621,262, published June 17, 1952. Class 39.

Elliott Service Company, Inc., Mount Vernon, N. Y. Column for weekly trade publication. 565,078, Oct. 7; Serial No. 621,760, published July 1, 1952. Class 38.

Ellis Brothers, Inc., Chicago, Ill. Wines. 564,850, Oct. 7; Serial No. 571,958, published June 10, 1952. Class 47.

Elsworth, J. & J. W., Co., New York, N. Y. Oysters. 296,600, renewed Aug. 16, 1952. O. G. Oct. 7. Class 46.

Englander Company, Inc., The, Chicago, Ill. Mattresses and box springs. 565,117, Oct. 7; Serial No. 623,878, published July 15, 1952. Class 32.

F. Hoffmann-La Roche & Cie, Basel, Switzerland. Remedy for phthisis. 32,563, Feb. 28, 1899. Amended. O. G. Oct. 7. Class 18. (Formerly Class 6.)

Falco Products Co., Philadelphia, Pa. Chairs and stools. 565,051, Oct. 7; Serial No. 621,008, published July 15, 1952. Class 32.

Färberei Schlieren A.-G., Zurich and Schlieren, Switzerland. Imitation leather, impregnated fabrics resembling imitation leather, and tarpaulins. 564,982, Oct. 7; Serial No. 614,643, published July 15, 1952. Class 50.

Finch, William G. H., New York, N. Y. Broadcasting facsimile weather maps. 565,158, Oct. 7; Serial No. 571,799. Class 104.

Fitts Dry Goods Company, Kansas City, Mo. Ladies' coats and suits. 565,086, Oct. 7; Serial No. 622,018, published June 10, 1952. Class 39.

Fleischman, M. R., Co., San Francisco, Calif. Ladies' sportswear. 564,938, Oct. 7; Serial No. 609,291, published June 10, 1952. Class 39.

Flexible Steel Lacing Company, Chicago, Ill. Wrenches, boring bits, and punches. 298,525, renewed Nov. 1, 1952. O. G. Oct. 7. Class 23.

Floriorange Canneries, Inc., Mount Dora, Fla., to R. M. Townsend, Fairfax, Va. Canned orange juice. 299,191, renewed Nov. 2, 1952. O. G. Oct. 7. Class 46.

Florsheim Shoe Company, The, Chicago, Ill. Footwear. 564,954, Oct. 7; Serial No. 611,085, published June 10, 1952. Class 39.

Foot Form Shoe Shops, Inc., New York, N. Y. Men's, women's, and children's leather and fabric slippers, moccasins, shoes, etc. 299,094, renewed Nov. 22, 1952. O. G. Oct. 7. Class 39.

Forhan, R. J., New York, N. Y. Composition for use as a temporary reliner for denture plates. 564,922, Oct. 7; Serial No. 606,767, published July 8, 1952. Class 44.

Forvil: *See*—
Parfums Forvil & Dentrifices du Docteur Pierre Reunis, Societe Anonyme.

Foster Trading Corporation, The, doing business as T. W. Samuels Distillery and Old Jordan Distillery, Louisville, Ky. Whiskey. 565,092, Oct. 7; Serial No. 622,387, published July 15, 1952. Class 49.

Franklin Research Company: *See*—
White, Wilbur, Chemical Company, The.

Frelox Shingle Corporation, The, San Francisco, Calif. Asphalt roofing shingle. 565,101, Oct. 7; Serial No. 622,787, published July 1, 1952. Class 12.

Fritzsche Brothers, Inc., New York, N. Y. Aromatic bodies. 299,176, renewed Nov. 22, 1952. O. G. Oct. 7. Class 6.

Frosst, Charles E., & Co., Montreal, Quebec, Canada. Pharmaceutical preparation. 565,050, Oct. 7; Serial No. 620,963, published June 17, 1952. Class 18.

Gallenkamp Stores Co., Los Angeles, Calif. Shoes. 564,910, Oct. 7; Serial No. 601,430, published June 10, 1952. Class 39.

Garris, Ralph, Bushkill, Pa. Medicinal preparation. 565,000, Oct. 7; Serial No. 616,954, published June 17, 1952. Class 18.

Gebruder Junghans Aktiengesellschaft: *See*—
Vereinigten Uhrenfabriken von Gebrüder Junghans & Thomas Haller A-G.

General Testing Laboratories: *See*—
Richards, Wesley A.

Germaine Monteil Cosmetiques Corporation, New York, N. Y. Eye shadow preparation. 564,896, Oct. 7; Serial No. 596,911, published June 17, 1952. Class 51.

Germaine Monteil Parfums Company, New York, N. Y. Perfume, toilet water, and cologne. 564,925, Oct. 7; Serial No. 607,624, published June 17, 1952. Class 51.

Ginger Mint Julep Company, Baltimore, Md. Maltless soft drink and syrup and concentrates. 564,830, Oct. 7; Serial No. 542,462, published June 24, 1952. Class 45.

Girl Scouts of the United States of America, New York, N. Y. Toilet soap and shampoo. 564,950, Oct. 7; Serial No. 610,681, published July 1, 1952. Class 52.

Globe Laboratories, Fort Worth, Tex. Disinfectants and insecticides. 564,898, Oct. 7; Serial No. 597,441, published July 15, 1952. Class 6.

Gly-Ders Footwear, Racine, Wis. Men's shoes and slippers. 565,026, Oct. 7; Serial No. 619,618, published June 10, 1952. Class 39.

Goldberg, S., & Co. Inc., Hackensack, N. J. House slippers. 565,013, Oct. 7; Serial No. 618,113, published June 10, 1952. Class 39.

Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Hair lotions. 564,921, Oct. 7; Serial No. 606,469, published June 3, 1952. Class 51.

Grainger, W. B., Packing Company, to W. B. Grainger Packing Company, Salinas, Calif. Fresh vegetables. 298,795, renewed Nov. 8, 1952. O. G. Oct. 7. Class 46.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Decalcomania signs, printed creeds, manuals, etc. 564,926, Oct. 7; Serial No. 607,993, published July 1, 1952. Class 38.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Printed creeds, manuals, directories and rosters, etc. 564,927, Oct. 7; Serial No. 607,997, published July 1, 1952. Class 38.

Great Lakes Carbon Corporation, New York, N. Y. Expanded and/or comminuted perlite aggregate. 564,986, Oct. 7; Serial No. 615,217, published July 1, 1952. Class 4.

Greenebaum, M. H., Inc., New York, N. Y. Hams and bacon. 564,886, Oct. 7; Serial No. 593,223, published June 24, 1952. Class 46.

Gretz, William, Brewing Co., Philadelphia, Pa. Beer. 564,848, Oct. 7; Serial No. 570,702, published June 24, 1952. Class 48.

Grocers & Producers Co., The, doing business as Clover Farm Stores, to Clover Farm Stores Corporation, Cleveland, Ohio. Cigars. 294,506, renewed May 31, 1952. O. G. Oct. 7. Class 17.

Grove Laboratories, Inc., The, St. Louis, Mo. Preparations for the treatment of colds and hay fever. 565,126, Oct. 7; Serial No. 628,021, published July 8, 1952. Class 18.

Grover Company, The, Detroit, Mich. Pneumatic tube dispatch systems, carriers and terminals. 565,147, Oct. 7; Serial No. 603,481. Class 23.

Guava Corporation, The, Richmond, Fla. Guava juice and blended guava and lime juices, papayas, mangos, etc. 565,068, Oct. 7; Serial No. 621,514, published July 15, 1952. Class 46.

Gulf-Canal Lines, Inc., Houston, Tex. Transportation of freight by motor van. 565,157, Oct. 7; Serial No. 555,941. Class 105.

H. H. S. Products Company, The: *See*—
Headland, Robert S.

Haire Publishing Company, New York, N. Y. Section of a periodical. 565,037, Oct. 7; Serial No. 620,342, published July 1, 1952. Class 38.

Haloid Company, The, Rochester, N. Y. Cotton. 565,021, Oct. 7; Serial No. 618,852, published July 8, 1952. Class 1.

Hanson-Van Winkle-Munning Company, Matawan, N. J. Chemical composition. 565,114, Oct. 7; Serial No. 623,653, published July 15, 1952. Class 6.

Harbison-Walker Refractories Company, Pittsburgh, Pa. Refractory mixture. 564,919, Oct. 7; Serial No. 605,856, published June 24, 1952. Class 12.

Harker Stagg Limited, London, England. Unmedicated bandages. 564,993, Oct. 7; Serial No. 615,833, published July 8, 1952. Class 44.

Harshaw Chemical Company, The, Cleveland, Ohio. Chemicals and chemical compositions. 565,020, Oct. 7; Serial No. 618,793, published July 8, 1952. Class 6.

Hartley, Herbert R., doing business as The Strike-Out Company, Tacoma, Wash. Self-igniting incense sticks and caps. 565,120, Oct. 7; Serial No. 624,765, published July 15, 1952. Class 6.

Hartog's Vleeschmaatschappij Naamlooze Vennootschap, Rotterdam, Netherlands. Tinned ham, tinned salami, tinned bacon, etc. 565,062, Oct. 7; Serial No. 621,248, published July 15, 1952. Class 46.

Harwood Pharmacal Co., Inc., Newark, N. J. Sedative medicine. 565,151, Oct. 7; Serial No. 612,395. Class 18.

Haxton Foods, Inc., Oakfield, N. Y. Canned fruits and vegetables; canned tomato juice. 565,024, Oct. 7; Serial No. 619,506, published July 15, 1952. Class 46.

Haymarket Coat Company: *See*—
Lehrer, Fred F.

Headland, Robert S., doing business as The H. H. S. Products Company, Butler, Pa. Preparation for the treatment of hemorrhoids. 296,332, renewed Aug. 2, 1952. O. G. Oct. 7. Class 18.

Hearst Corporation, The, New York, N. Y. Series of cartoons or comic strips. 564,958, Oct. 7; Serial No. 611,699, published July 1, 1952. Class 38.

Hebe Sports Limited, London, England. Women's coats, suits, costumes, etc. 564,956, Oct. 7; Serial No. 611,274, published Apr. 1, 1952. Class 39.

Hego Fabrics, Inc., New York, N. Y. Textile fabrics. 564,990, Oct. 7; Serial No. 615,707, published July 15, 1952. Class 42.

Heublein, G. F., & Bro., Inc., Hartford, Conn. Vodka. 565,012, Oct. 7; Serial No. 618,038, published June 24, 1952. Class 49.

Higginbotham Bailey Company Dallas, Tex. Ladies', misses' and children's suits, dresses and coats. 564,977, Oct. 7; Serial No. 613,958, published July 15, 1952. Class 39.

Hijos de Baguer: *See*—
Cuba Industrial y Comercial, S. A.

Hildebrand, Eulalie, New York, N. Y. Women's and girls' clothing, men's and boys' clothing, infants' clothing. 564,855, Oct. 7; Serial No. 575,859, published July 8, 1952. Class 39.

Hoffmann-La Roche Chemical Works, The, New York, N. Y. Potassium guiacol-sulfonate. 80,717, Jan. 24, 1911. Amended. O. G. Oct. 7. (Formerly class 6.) Class 18.

Hollenzer Florist Inc.: *See*—
Bouquet of the Month Club by Harris, Inc.

Home Town Foods, Harris, N. Y. Frozen foods. 564,892, Oct. 7; Serial No. 594,971, published July 15, 1952. Class 46.

Hormez Laboratories: *See*—
Philippe, Louis, Inc.

Hospo, Inc., to Hospo Organization, Inc., Chicago, Ill. Electric light fixture units. 294,301, renewed May 24, 1952. O. G. Oct. 7. Class 21.

Hospo Organization, Inc: *See*—
Hospo, Inc.

House of Nine, The, Los Angeles, Calif. Women's ready-to-wear. 564,890, Oct. 7; Serial No. 594,715, published June 24, 1952. Class 39.

House of Stuart, Inc., The, Newark, N. Y. Talcum powder, shaving cream, personal deodorant, etc. 564,899, Oct. 7; Serial No. 598,185, published June 17, 1952. Class 51.

House of Swansdown, Inc., The, New York, N. Y. Ladies' and misses' coats, suits, jackets and skirts. 565,104, Oct. 7; Serial No. 622,997, published July 15, 1952. Class 39.

Howse, Mead & Sons, Inc., New York, N. Y. Worsted shetland and worsted saxony fabric in the piece. 565,009, Oct. 7; Serial No. 617,877, published July 15, 1952. Class 42.

Howse, Mead & Sons, Inc., New York, N. Y. Worsted fabric in the piece. 565,010, Oct. 7; Serial No. 617,879, published July 15, 1952. Class 42.

Hubbs & Corning Company, to Hubbs Corporation, Baltimore, Md. Wrapping and toilet papers. 294,487, renewed May 31, 1952. O. G. Oct. 7. Class 37.

Hubbs Corporation: *See*—
Hubbs & Corning Company.

Hudnut, Richard, New York, N. Y. Soap. 87,073, renewed June 25, 1952. O. G. Oct. 7. Class 52.

Hutchings Brokerage Company: *See*—
Hutchings, Norman W., Sr., and N. W., Jr.

Hutchings, Norman W., Jr.: *See*—
Hutchings, Norman W., Sr., and N. W., Jr.

Hutchings, Norman W., Sr., and N. W., Jr., doing business under the names China Doll Company and Hutchings Brokerage Company, Mobile, Ala. Rice. 565,115, Oct. 7; Serial No. 623,707, published July 15, 1952. Class 46.

Hygrade Food Products Corporation, Detroit, Mich. All meat knackwurst and all beef knackwurst. 565,032, Oct. 7; Serial No. 619,942, published July 15, 1952. Class 46.

I. T. S. Company, The, Elyria, Ohio. Rubber heels and rubber taps. 296,703, renewed Aug. 16, 1952. O. G. Oct. 7. Class 39.

Independent Industrial Workers Association, Baton Rouge, La. Newspaper. 564,934, Oct. 7; Serial No. 608,992, published June 17, 1952. Class 38.

Industrial Directory Publishers, Detroit, Mich. Industrial directory, buyer's guide and classified telephone directory. 565,004, Oct. 7; Serial No. 617,441, published July 1, 1952. Class 38.

International Shoe Co., St. Louis, Mo. Shoes. 565,053, Oct. 7; Serial No. 621,066, published June 10, 1952. Class 39.

Interstate Sanitation Company, The, Cincinnati, Ohio. Air deodorant. 564,888, Oct. 7; Serial No. 594,175, published July 15, 1952. Class 6.

Jacobs Cigar Co.: *See*—
Jacobs, Richard C.

Jacobs, Richard C., doing business as Jacobs Cigar Co., Red Lion, Pa. Cigars. 564,900, Oct. 7; Serial No. 598,368, published July 15, 1952. Class 17.

Jagenburg, E. R., Inc., Brooklyn, N. Y. Frozen fruit purees. 564,887, Oct. 7; Serial No. 594,047, published July 8, 1952. Class 46.

Jay Shoe Manufacturing Co., Inc., Cambridge, Mass. Women's and children's shoes. 565,029. Oct. 7; Serial No. 619,757, published June 10, 1952. Class 39.

Jewel Tea Co., Inc., Barrington, Ill. Dental cream, shampoo, blue, and starch finish. 564,836, Oct. 7; Serial No. 555,527, published Apr. 17, 1951. Class 51.

Joan Carol Corporation, Garfield, N. J. Ladies' coats and topcoats. 565,080, Oct. 7; Serial No. 621,813, published June 10, 1952. Class 39.

Johnson & Johnson, operating under the trade name Tek-Hughes, New Brunswick, N. J. Brushes. 564,997, Oct. 7; Serial No. 616,671, published May 6, 1952. Class 29.

Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo. Shoes. 564,822, Oct. 7; Serial No. 527,382, published Apr. 25, 1950. Class 39.

Joseph, George F., trading under the name of George F. Joseph Co., Yakima, Wash. Fresh fruits. 565,122, Oct. 7; Serial No. 624,953, published July 15, 1952. Class 46.

Joseph, George F., Co.: *See*—
Joseph, George F.

Joyce, Inc., Pasadena, Calif. Women's overshoes. 564,893, Oct. 7; Serial No. 595,786, published June 10, 1952. Class 39.

Judy Publishing Company, Chicago, Ill. Periodical. 565,044, Oct. 7; Serial No. 620,735, published July 1, 1952. Class 38.

Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. 564,996, Oct. 7; Serial No. 616,493, published July 15, 1952. Class 42.

K-M Chemical Co., Thomasville, Ga. Preparation for the relief of athlete's foot, ingrowing toenails, corns, etc. 564,955, Oct. 7; Serial No. 611,096, published June 17, 1952. Class 18.

Kahlua, Ltd., Hollywood, Calif. Candy. 564,932, Oct. 7; Serial No. 608,821, published June 17, 1952. Class 46.

Karat-Werk Maschinen- und Metallwarenfabrik Gesellschaft m. b. H., Vienna, Austria. Pyrophoric lighters for smokers. 565,001, Oct. 7; Serial No. 617,036, published July 8, 1952. Class 8.

Kathryn, Inc., Chicago, Ill. Ammoniated tooth powder. 564,871, Oct. 7; Serial No. 584,769, published June 17, 1952. Class 51.

Kayser, Julius, & Co., New York, N. Y. Hosiery. 297,760, renewed Sept. 27, 1952. O. G. Oct. 7. Class 39.

Kennel Comfort, San Francisco, Calif. Animal disinfectants. 564,907, Oct. 7; Serial No. 601,151, published July 15, 1952. Class 6.

Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. 564,967, Oct. 7; Serial No. 612,917, published July 15, 1952. Class 32.

Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. 564,968, Oct. 7; Serial No. 612,920, published July 15, 1952. Class 32.

Kentile, Inc., Brooklyn, N. Y. Floor and wall tile. 564,991, Oct. 7; Serial No. 615,713, published July 8, 1952. Class 12.

Kenyon Piece Dyeworks, Inc., The, Kenyon, R. I. Dyeing of woolen, cotton, rayon, and nylon piece goods. 565,159, Oct. 7; Serial No. 607,859. Class 106.

King Candy Company, Fort Worth, Tex. Candies. 564,833, Oct. 7; Serial No. 552,148, published July 8, 1952. Class 46.

Klug, Clarence, Los Angeles, Calif. Thread and continuous filament and staple fiber yarns. 565,153–4, Oct. 7; Serial Nos. 616,602–3. Class 43.

Koret of California, Inc., San Francisco, Calif. Women's, misses', and children's dresses, halters, outer shorts, outer shirts, etc. 564,916, Oct. 7; Serial No. 605,311, published June 10, 1952. Class 39.

"Lake, A. B.": *See*—
Lake, Anthony B.

Lake, Anthony B., doing business under the name "A. B. Lake," Marion, Iowa. Portable detachable seat back rest and combination seat cushion and carrying case. 564,917, Oct. 7; Serial No. 605,555, published July 15, 1952. Class 32.

Lama, Tony, El Paso, Tex. Footwear. 565,015, Oct. 7; Serial No. 618,299, published July 15, 1952. Class 39.

Lancome: *See*—
Lancome, S. A.

Lancome, S. A., doing business as Lancome, Paris, France. Face creams. 564,859, Oct. 7; Serial No. 577,273, published June 17, 1952. Class 51.

Larson Buick Co., Inc., Long Island City, N. Y. Repair and servicing of automotive vehicles. 565,156, Oct. 7; Serial No. 531,811. Class 103.

Lehrer, Fred F., doing business as Haymarket Coat Company, Los Angeles, Calif. Women's and misses' coats and suits. 565,036, Oct. 7; Serial No. 620,262, published June 17, 1952. Class 39.

Leiong, Lucien, Inc., Chicago, Ill. Colognes. 564,957, Oct. 7; Serial No. 611,287, published June 17, 1952. Class 51.

Lester, Robert G., doing business under the name and style of Pivot Service, Chicago, Ill. Stock and other market analyses and forecasts of price and market changes. 565,133, Oct. 7; Serial No. 615,607, published July 15, 1952. Class 102.

Lever Brothers Company, New York, N. Y. Lipstick. 564,976, Oct. 7; Serial No. 613,778, published July 8, 1952. Class 51.

Levy, Theodore, assignee: *See*—
Central Grape Products Co.

Liggett & Meyers Tobacco Company, New York, N. Y. Cigarettes and smoking tobacco. 564,870, Oct. 7; Serial No. 584,676, published July 15, 1952. Class 17.

Lindeteves Inc., New York, N. Y. Pistons and parts thereof, engine valves, cylinder sleeves, etc. 564,943, Oct. 7; Serial No. 609,933, published June 17, 1952. Class 23.

Littles Shoe Store, Pittsburgh, Pa. Men's and boys' shoes. 565,018, Oct. 7; Serial No. 618,588, published June 24, 1952. Class 39.

Longbotham, Thomas, doing business under the assumed name of American Diamond Saw Company, Portland, Oreg. Drum sanders. 565,155, Oct. 7; Serial No. 617,801. Class 23.

L'Onglex Limited, New York, N. Y., to L'Onglex Limited, Stamford, Conn. Liquid nail polish, liquid nail polish remover, cuticle remover, etc. 299,228, renewed Nov. 22, 1952. O. G. Oct. 7. Class 51.

Loveless, W. D., & Son, Watsonville, Calif. Fresh vegetables. 564,985, Oct. 7; Serial No. 614,950, published July 15, 1952. Class 46.

Lowe, Joe, Corporation, New York, N. Y. Philatelic stamps. 564,906, Oct. 7; Serial No. 600,596, published July 1, 1952. Class 38.

Lur-Ozark, Inc., Webb City, Mo. Artificial fishing-lures. 565,054, Oct. 7; Serial No. 621,154, published July 15, 1952. Class 22.

Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken, to Rademaker's Koninklijke Cacao- en Chocoladefabrieken N. V., The Hague, Holland. Coffee flavored candies. 295,128, renewed June 21, 1952. O. G. Oct. 7. Class 46.

Magna Engineering Corporation, Menlo Park, Calif. Printed periodicals. 565,091, Oct. 7; Serial No. 622,306, published July 1, 1952. Class 38.

Magnus, Mabee & Reynard, Inc., New York, N. Y. Aromatic chemicals. 295,807, renewed July 12, 1952. O. G. Oct. 7. Class 46.

Marchand, Charles, Company, The, New York, N. Y. Castile hair shampoo. 564,918, Oct. 7; Serial No. 605,753, published July 1, 1952. Class 52.

Marksman Farms, Inc., New York, N. Y. Frozen foods. 564,826, Oct. 7; Serial No. 536,826, published July 8, 1952. Class 46.

Martie, R. B., Company: *See*—
Martie, R. B., Inc.

Martie, R. B., Inc., to R. B. Martie Company, New York, N. Y. Powdered soap compound. 297,206, renewed Sept. 6, 1952. O. G. Oct. 7. Class 52.

McCaldry, Inc., Oakland, Calif. Adjustable seat for dentists, opticians, barbers, and the like. 565,152, Oct. 7; Serial No. 616,565. Class 32.

McGurk, Peter J., assignee of Brewers' Best Associates, Inc., Elizabeth, N. J., assignor to Brewers' Best Inc. Beer. 564,825, Oct. 7; Serial No. 534,411, published June 3, 1952. Class 48.

Medart Company, The: *See*—
Medart, Fred, Manufacturing Co.

Medart, Fred, Manufacturing Co., to The Medart Company, St. Louis, Mo. Metal clothes and analogous lockers. 296,737, renewed Aug. 16, 1952. O. G. Oct. 7. Class 32.

Melville Shoe Corporation, New York, N. Y. Shoes. 298,811, renewed Nov. 8, 1952. O. G. Oct. 7. Class 39.

Melville Shoe Corporation, New York, N. Y. Shoes. 298,842, renewed Nov. 8, 1952. O. G. Oct. 7. Class 39.

Mennel Milling Company, The, Fostoria and Toledo, Ohio. Wheat flour. 564,885, Oct. 7; Serial No. 593,034, published Sept. 25, 1951. Class 46.

Merritt-Taylor Inc., New York, N. Y. Ladies' suits. 564,832, Oct. 7; Serial No. 548,664, published Oct. 26, 1948. Class 39.

Metlox Manufacturing Co., Manhattan Beach, Calif. Dinnerware, china, pottery etc. 565,135, Oct. 7; Serial No. 542,857. Class 30.

Meyer Chemical Company, assignee: *See*—
Bristol Laboratories Inc.

Meyer, N. S., Inc., New York, N. Y. Metal polish. 297,249, renewed Sept. 6, 1952. O. G. Oct. 7. Class 4.

Meyercord Co., The, Chicago, Ill. Electrically heated and mechanically driven machines. 565,140, Oct. 7; Serial No. 595,610. Class 23.

Michel Cosmetics, Inc., Long Island City, N. Y. Lipsticks, rouge, face powder, etc. 564,904, Oct. 7; Serial No. 600,063, published June 17, 1952. Class 51.

Michel, Dr., G. H., & Company, Cleveland, Ohio. Preparations for preparing and preserving dead bodies for burial. 299,089, renewed Nov. 22, 1952. O. G. Oct. 7. Class 51.

Miller Food Products Company, Inc., Sturgeon Bay, Wis. Canned fruits, jellies, jams, etc. 564,829, Oct. 7; Serial No. 541,868, published June 24, 1952. Class 46.

Miscoe Spring Water Co., Inc., Worcester, Mass. Maltless soft drinks, and carbonated waters, and table water. 565,038, Oct. 7; Serial No. 620,521, published July 8, 1952. Class 45.

Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. House organ publication. 565,052, Oct. 7; Serial No. 621,021, published July 15, 1952. Class 38.

Miss France Coats, Inc., New York, N. Y. Ladies' coats, suits, and sport jackets. 564,992, Oct. 7; Serial No. 615,715, published June 10, 1952. Class 39.

Modell, Henry, & Co., Inc., New York, N. Y. Men's, women's and children's shoes and moccasins, raincoats, rubber ponchos, etc. 564,827, Oct. 7; Serial No. 541,160, published June 10, 1952. Class 39.

Mohawk Liqueur Corporation, Detroit, Mich. Liqueur. 564,931, Oct. 7; Serial No. 608,509, published June 3, 1952. Class 49.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resin materials. 565,094, Oct. 7; Serial No. 622,446, published July 8, 1952. Class 6.

Morley-Stein Products, New York, N. Y. Crayons. 565,119, Oct. 7; Serial No. 624,607, published July 15, 1952. Class 37.

Mosen, Adolph, doing business under the name and style of Bestlyne Company, New York, N. Y. Bathing suits. 564,821, Oct. 7; Serial No. 503,585, published May 20, 1952. Class 39.

N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar" Weesp and Amsterdam, Netherlands. Vitaminized live stock feeds. 565,002, Oct. 7; Serial No. 617,053, published June 17, 1952. Class 46.

Nachman Corporation, Chicago, Ill. Spring assemblies for upholstered furniture. 564,849, Oct. 7; Serial No. 570,741, published July 15, 1952. Class 32.

Nashua Corporation: *See*—
Nashua Gummed and Coated Paper Company.

Nashua Gummed and Coated Paper Company, Nashua, N. H., now by change of name, Nashua Corporation. Label stock. 564,842, Oct. 7; Serial No. 561,329, published Aug. 21, 1951. Class 37.

Naté, Jean, Inc.: *See*—
Nathan, Jean.

Nathan, Jean, to Jean Naté, Inc., New York, N. Y. Skin lotion. 299,041, renewed Nov. 22, 1952. O. G. Oct. 7. Class 51.

National Carbon Company, Cleveland, Ohio, to Union Carbide and Carbon Corporation, New York, N. Y. Dry cells. 88,341, re-renewed Sept. 10, 1952. O. G. Oct. 7. Class 21.

National Cash Register Company, The, Dayton, Ohio. Paper slitting and stacking machines. 298,405, renewed Oct. 25, 1952. O. G. Oct. 7. Class 23.

National Clay Pipe Manufacturers, Inc., Chicago, Ill. Joint compounds. 565,134, Oct. 7; Serial No. 618,302, published July 8, 1952. Class 12.

National Provisioner, Inc., The, Chicago, Ill. Periodical publication. 565,108, Oct. 7; Serial No. 623,473, published July 15, 1952. Class 38.

National Ring Traveler Company, Pawtucket, R. I. Ring travelers. 565,142, Oct. 7; Serial No. 596,179. Class 23.

National Sportswear Corp., Forest City, Pa. Men's and boys' sportswear. 564,940, Oct. 7; Serial No. 609,375, published May 27, 1952. Class 39.

NEA Service, Inc., Cleveland, Ohio. Cartoons. 565,090, Oct. 7; Serial No. 622,221, published July 1, 1952. Class 38.

Nepera Chemical Co. Inc., Nepera Park, N. Y. Sedative hypnotic. 565,047, Oct. 7; Serial No. 620,815, published June 17, 1952. Class 18.

Nestle-Lemur Company, The, New York, N. Y. Preparation for treating hair, etc. 294,157, renewed May 17, 1952. O. G. Oct. 7. Class 51.

New American Library of World Literature, Inc., The, New York, N. Y. Books. 565,076–7, Oct. 7; Serial Nos. 621,721–2, published July 15, 1952. Class 38.

Newhall, John K., Aurora, Ill. Shipment and display cartons. 564,863, Oct. 7; Serial No. 579,124, published July 8, 1952. Class 2.

New Hermes, Inc., New York, N. Y. Engraving machines. 564,876, Oct. 7; Serial No. 587,903, published June 17, 1952. Class 23.

New York Association for the Blind, Inc., The, New York, N. Y. Mops. 564,920, Oct. 7; Serial No. 606,037, published July 1, 1952. Class 29.

Nishio, Fred, doing business as Nishio Ranch, Whittier, Calif. Fresh vegetables. 565,149, Oct. 7; Serial No 611,143. Class 46.

Nishio, Ranch: *See*—
Nishio, Fred.

Nu-Label Machine Corporation, The, Little Ferry, N. J. Label cutting and folding machines. 565,150, Oct. 7; Serial No. 611,654. Class 23.

O. K. Tool Company, Inc., The: *See*—
O. K. Tool Holder Company, The.

O. K. Tool Holder Company, The, Shelton, Conn., to The O. K. Tool Company, Inc., Milford, N. H. Cutters and holders therefor. 85,675, re-renewed Mar. 5, 1952. O. G. Oct. 7. Class 23.

Oakley, Annie, Enterprises, assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif. Non-alcoholic maltless grape-flavored soft drinks. 564,969, Oct. 7; Serial No. 613,040, published July 1, 1952. Class 45.

Oakley, Annie, Enterprises, Inc., assignee: *See*—
Oakley, Annie, Enterprises.

Offley Forrester, Limitada, Vila Nova De Gaia, Portugal. Port wine. 564,864, Oct. 7; Serial No. 579,616, published June 10, 1952. Class 47.

Oklahoma Publishing Company, The, Oklahoma City, Okla. Column of a newspaper. 565,072, Oct. 7; Serial No. 621,680, published July 1, 1952. Class 38.

Old Jordan Distillery: *See*—
Foster Trading Corporation, The.

Olo Soap Company, Inc.: *See*—
Beaver Chemical Works.

Omnipol, Limited Company, Prague, Czechoslovakia. Sand; clay; fuller's earth, etc. 564,839, Oct. 7; Serial No. 559,807, published July 8, 1952. Class 1.

Oomphies, Inc., New York, N. Y. Women's sport shoes. 564,951, Oct. 7; Serial No. 610,863, published July 15, 1952. Class 39.

Pacific Tire & Rubber Company, Oakland, Calif. Pneumatic tires and pneumatic tubes therefor. 565,124, Oct. 7; Serial No. 626,045, published July 15, 1952. Class 35.

Paispearl Products, Inc., New York, N. Y., Eastport, Maine, and Hastings-on-Hudson, N. Y. Fish. 565,107, Oct. 7; Serial No. 623,153, published July 15, 1952. Class 46.

Palico, Inc., Livingston, N. J. Nail polish. 565,143, Oct. 7; Serial No. 599,338. Class 51.

Panray Corp., The, New York, N. Y. Absorbent articles of a constitution absorbable in body fluids. 564,923, Oct. 7; Serial No. 606,980, published July 8, 1952. Class 44.

Pantasote Co., The, Passaic, N. J., and New York, N. Y. Resinous plastic wall covering. 564,880, Oct. 7; Serial No. 590,281, published Dec. 19, 1950. Class 12.

Parade Publication, Inc., New York, N. Y. Column in a newspaper publication. 565,073, Oct. 7; Serial No. 621,681, published July 15, 1952. Class 38.

Parfums Forvil & Dentifrices du Docteur Pierre Reunis, Societe Anonyme, doing business as Forvil, Nanterre, France. Perfumes, perfume extracts, toilet water, etc. 564,952, Oct. 7; Serial No. 610,987, published June 24, 1952. Class 51.

Pastene & Co., Inc., New York, N. Y. Grape juice. 564,834, Oct. 7; Serial No. 554,406, published June 3, 1952. Class 45.

Patou, Jean, Inc., New York, N. Y. Perfumes. 299,239, renewed Nov. 22, 1952. O. G. Oct. 7. Class 51.

Pay Way Feed Mills, Inc., Kansas City, Mo. Complete feed for livestock. 565,102, Oct. 7; Serial No. 622,843, published July 15, 1952. Class 46.

Peck's Products Company, St. Louis, Mo. Soaps and dishwashing detergents. 564,937, Oct. 7; Serial No. 609,196, published Mar. 4, 1952. Class 52.

Peerless Plastics, Culver City, Calif. Interior decorative wall tile. 565,085, Oct. 7; Serial No. 621,979, published July 1, 1952. Class 12.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Insecticides. 564,905, Oct. 7; Serial No. 600,072, published July 8, 1952. Class 6.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Lye. 565,105, Oct. 7; Serial No. 623,010, published July 8, 1952. Class 6.

Petroleum Specialties, Inc., New York, N. Y. Mineral white oil, petrolatum, and petroleum sulphonates. 565,055, Oct. 7; Serial No. 621,167, published July 8, 1952. Class 6.

Philadelphia Quartz Company of California, Berkeley, Calif. Epsom salt, alkali metal silicates, sodium carbonate, etc. 565,106, Oct. 7; Serial No. 623,070, published July 8, 1952. Class 6.

Philippe, Louis, Inc., doing business as Hormez Laboratories, Chicago, Ill. to Wyeth Incorporated, Philadelphia, Pa. Compound of glandular substances in combination with skin emollients used as a face cream. 296,971, renewed Aug. 30, 1952. O. G. Oct. 7. Class 51.

Phillips Petroleum Company, Bartlesville, Okla. Consultation engineering services. 565,127, Oct. 7; Serial No. 571,742, published July 15, 1952. Class 100.

Pierce, S. S., Co., Boston, Mass. Groceries in cans and jars, frozen fresh food products, bottled goods, etc. 564,824, Oct. 7; Serial No. 531,360, published July 5, 1949. Class 46.

Pivot Service: *See*—
Lester, Robert G.

Presstite Engineering Company, St. Louis, Mo. Caulking and glazing compound. 564,971, Oct. 7; Serial No. 613,187, published July 1, 1952. Class 12.

Princess Pat, Ltd., Chicago, Ill. Cream used for cleansing the skin. 564,914, Oct. 7; Serial No. 603,163, published June 24, 1952. Class 51.

Principe, Michael, New York, N. Y. Molded building stone. 565,083, Oct. 7; Serial No. 621,900, published July 1, 1952. Class 12.

Printz-Biederman Company, The, Cleveland, Ohio. Woolen textile fabrics. 299,006, renewed Nov. 15, 1952. O. G. Oct. 7. Class 42.

Protective Coatings Corporation, Clifton, N. J. Bags, boxes, and cartons. 564,851, Oct. 7; Serial No. 573,195, published July 8, 1952. Class 2.

Rademaker's Koninklijke Cacao-en Chocoladefabrieken N. V.: *See*—
Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken.

Railway Locomotor Company, to Vapofier Corporation, Chicago, Ill. Oil burner. 296,628, renewed Aug. 16, 1952. O. G. Oct. 7. Class 34.

Rassenfoss Bag Company, Glenview, Ill. Garment storage bags. 564,840, Oct. 7; Serial No. 560,658, published July 8, 1952. Class 2.

Ravasi, Giuseppe, Como, Italy. Necktie, handkerchiefs, dressing gowns, and scarves. 564,908, Oct. 7; Serial No. 601,232, published June 10, 1952. Class 39.

Ray, Albert A., doing business under the fictitious name and style of Ray Products Company, Alhambra, Calif. Gas feeding masks. 564,973, Oct. 7; Serial No. 613,527, published July 1, 1952. Class 44.

Ray Products Company: *See*—
Ray, Albert A.

Real Juice Company, Inc., Dallas, Tex. Nonalcoholic, maltless beverage. 564,843, Oct. 7; Serial No. 561,397, published June 3, 1952. Class 45.

Reeves Pulley Company, Columbus, Ind. Variable speed power units. 564,879, Oct. 7; Serial No. 588,656, published June 3, 1952. Class 23.

Reilly, James A.: *See*—
Corner, Jas., & Sons.

Remington Products Corporation, Elizabeth, N. J. Insecticides. 564,882, Oct. 7; Serial No. 591,648, published July 8, 1952. Class 6.

Repertoire, Inc., Lansing, Mich. Magazines. 565,066, Oct. 7; Serial No. 621,377, published July 15, 1952. Class 38.

Richards, Wesley A., doing business under the name General Testing Laboratories, Detroit, Mich. Hair dressing. 564,947–8, Oct. 7; Serial Nos. 610,634–5, published June 17, 1952. Class 51.

Rile-Coe Filter Process, Inc., Pinehurst, N. C. Paper and plastic bags and plastic bottles and jars. 564,847, Oct. 7; Serial No. 565,373, published July 8, 1952. Class 2.

Rinshed-Mason Company, Detroit, Mich. Ready mixed paint, paint enamel, lacquers, etc. 296,297–300, renewed Aug. 2, 1952. O. G. Oct. 7. Class 16.

RoSand: *See*—
Sandler, Rose.

Ross, Will, Inc., Milwaukee, Wis. Clinical thermometers. 564,935, Oct. 7; Serial No. 609,104, published July 8, 1952. Class 44.

Rox Products Company: *See*—
Cairns, Henry W.

Ruppert, Jacob, New York, N. Y. Beer. 564,960, Oct. 7; Serial No. 611,860, published June 24, 1952. Class 48.

Saks & Company, New York, N. Y. Men's and boys' hats, shoes, collars, etc. 565,074, Oct. 7; Serial No. 621,685, published June 10, 1952. Class 39.

Samuels, T. W., Distillery: *See*—
Foster Trading Corporation, The.

Sandler, Rose, also known as RoSand, doing business as Courage School, Washington, D. C., and New York, N. Y. Calendar-type publication and for a newspaper column. 565,005, Oct. 7; Serial No. 617,513, published July 15, 1952. Class 38.

Scherer, R. P., Corporation, Detroit, Mich. Capsulated vitamin preparations, capsulated drugs and medicinal preparations and mixtures, etc. 564,894, Oct. 7; Serila No. 595,987, published June 17, 1952. Class 18.

Schering & Glatz, Inc., Bloomfield, N. J., to Warner-Hudnut, Inc., New York, N. Y. Suppositories. 294,645, renewed June 7, 1952. O. G. Oct. 7. Class 18.

Schlage Lock Company, San Francisco, Calif. Locks and keys and parts thereof. 565,022, Oct. 7; Serial No. 619,170, published July 15, 1952. Class 25.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 564,867, Oct. 7; Serial No. 582,398, published June 24, 1952. Class 39.

Schwarz Bros. Plastics Inc., Los Angeles, Calif. Portable, plastic bottle. 564,924, Oct. 7; Serial No. 607,608, published July 15, 1952. Class 2.

Schweppes (Colonial & Foreign) Limited, London, England. Soda water, dry ginger ale, ginger beer, etc. 565,019, Oct. 7; Serial No. 618,657, published June 3, 1952. Class 45.

Scientific Solutions, Inc., West Palm Beach, Fla. Medicinal skin lotion. 564,994, Oct. 7; Serial No. 615,857, published July 8, 1952. Class 18.

Sears, Roebuck and Co., Chicago, Ill. Children's and misses' footwear. 564,844, Oct. 7; Serial No. 561,500, published June 10, 1952. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Film cement. 564,861, Oct. 7; Serial No. 577,611, published Jan. 22, 1952. Class 5.

Sears, Roebuck and Co., Chicago, Ill. Window curtains, and curtain fabrics. 564,979, Oct. 7; Serial No. 614,110, published July 15, 1952. Class 42.

Sears, Roebuck and Co., Chicago, Ill. Tooth brushes. 565,087, Oct. 7; Serial No. 622,035, published July 8, 1952. Class 29.

Sears, Roebuck and Co., Chicago, Ill. Shaving brushes, hair brushes, clothes brushes. 565,096, Oct. 7; Serial No. 622,624, published July 8, 1952. Class 29.

Seroussi Brothers, Inc., Gloversville, N. Y. Finished leather. 565,059, Oct. 7; Serial No. 621,229, published July 8, 1952. Class 1.

Shane, C. B., Corporation, Chicago, Ill. Women's and misses' coats and suits. 565,093, Oct. 7; Serial No. 622,416, published July 15, 1952. Class 39.

Shlansky, Philip, & Sons, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets and skirts. 564,936, Oct. 7; Serial No. 609,144, published June 10, 1952. Class 39.

Short, J. R., Milling Company, Chicago, Ill. Cereal flakes used for the manufacture of beer. 565,023, Oct. 7; Serial No. 619,264, published July 8, 1952. Class 48.

Shotwell Mfg. Co., The, Chicago, Ill. Easter egg candles. 564,884, Oct. 7; Serial No. 692,343, published July 15, 1952. Class 46.

Signal Publications, Huntington Park, Calif. Newspaper. 565,027, Oct. 7; Serial No. 619,683, published June 24, 1952. Class 38.

Simonds Saw and Steel Company, Fitchburg, Mass. Files. 298,558, renewed Nov. 1, 1952. O. G. Oct. 7. Class 23.

Sloan, Dr. Earl S., Incorporated, to Standard Laboratories, Inc., New York N. Y. Medicinal preparations. 294,827, renewed June 7, 1952. O. G. Oct. 7. Class 18.

Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa. Hard surface floor covering of the nature of linoleum. 565,039, Oct. 7; Serial No. 620,556, published July 15, 1952. Class 20.

Smooth-On Manufacturing Company, Jersey City, N. J. Iron compound. 299,149, renewed Nov. 22, 1952. O. G. Oct. 7. Class 12.

Società "Ambrosiana" Riproduzioni Sacre, Milano, Italy. Picture postcards, pictures, books, etc. 564,862, Oct. 7; Serial No. 578,902, published July 1, 1952. Class 38.

Societa per Azioni, Strega Alberti Benevento (S. A. B.), Benevento, Italy. Non-alcoholic maltless soft drinks and syrups. 564,841, Oct. 7; Serial No. 561,270, published June 17, 1952. Class 45.

Societe Anonyme de l'Annuaire du Commerce Didot-Bottin, Paris, France. Almanacs, directories, agenda-books, etc. 564,911, Oct. 7; Serial No. 601,526, published June 17, 1952. Class 38.

Societe Anonyme Etablissements Andre Gillier, Troyes, France. Knitted sweaters, pull-overs, cardigans, etc. 295,389, renewed June 28, 1952. O. G. Oct. 7. Class 39.

Societe de Produits Chimiques des Terres Rares, Paris, France. Electrolytic baths. 564,901, Oct. 7; Serial No. 598,504, published July 15, 1952. Class 6.

Society Brand Clothes, Inc., Chicago, Ill. Men's clothing. 564,852, Oct. 7; Serial No. 575,232, published June 10, 1952. Class 39.

Sonneborn, L., Sons, Inc., doing business under the name Whistlelean Division L. Sonneborn Sons, Inc., New York, N. Y. Chemical cleaning compound. 564,995, Oct. 7; Serial No. 615,946, published July 1, 1952. Class 52.

Sponge Rubber Products Company, The, Shelton, Conn. Cellular expanded bodies of plastic materials. 565,008, Oct. 7; Serial No. 617,771, published June 17, 1952. Class 1.

Springfield Tablet Manufacturing Company, Springfield, Mo. Notebooks, tablets, loose-leaf binders, etc. 565,048, Oct. 7; Serial No. 620,903, published July 8, 1952. Class 37.

Standard Brands Incorporated, New York, N. Y. Mixture of egg material and other substances suitable for use as an ingredient in making cakes and other food products. 299,078, renewed Nov. 22, 1952. O. G. Oct. 7. Class 46.

Standard Food Products Corp., Brooklyn, N. Y. Wines. 564,878, Oct. 7; Serial No. 588,533, published June 10, 1952. Class 47.

Standard Laboratories, Inc.: *See*—
Sloan, Dr. Earl S., Incorporated.

Steiner Sales Company, Division of American Linen Supply Co.: *See*—
American Linen Supply Co.

Stephano Brothers, Philadelphia, Pa. Cigarettes. 565,079, Oct. 7; Serial No. 621,791, published July 8, 1952. Class 17.

Strike-Out Company, The: *See*—
Hartley, Herbert R.

Suit-4-All, Inc., New York, N. Y. Ladies' suits. 564,944, Oct. 7; Serial No. 610,034, published June 10, 1952. Class 39.

Suit Shop, The, Washington, D. C. Men's suits. 564,889, Oct. 7; Serial No. 594,592, published July 8, 1952. Class 39.

Sun Chemical Corporation: *See*—
Ullman, Sigmund, Co.
Warwick Chemical Company.

Swift & Company, Chicago, Ill. Cleanser. 565,141, Oct. 7; Serial No. 595,626. Class 52.

Switzer Licorice Company, doing business under the name and style of Switzer's Licorice Company, St. Louis, Mo. Licorice candy. 564,912, Oct. 7; Serial No. 601,961, published July 8, 1952. Class 46.

Switzer's Licorice Company: *See*—
Switzer Licorice Company.

Takamine Laboratory, Inc., Clifton, N. J. Enzyme preparation. 565,049, Oct. 7; Serial No. 620,940, published July 8, 1952. Class 6.

Tanbro Fabrics Corp., New York, N. Y. Textile fabrics in the piece. 565,103, Oct. 7; Serial No. 622,866, published July 15, 1952. Class 42.

Taylor-Hall Corp., Denver, Colo. Alarm whistle for low pressure in automobile tires. 565,146, Oct. 7; Serial No. 601,858. Class 23.

Tek-Hughes: *See*—
Johnson & Johnson.

TeleVision Guide, Inc., New York, N. Y. Column in printed periodicals and magazines. 565,084, Oct. 7; Serial No. 621,921, published July 1, 1952. Class 38.

Texas Company, The, Dover, Del., and New York, N. Y. Roofing shingles. 564,963, Oct. 7; Serial No. 612,282, published July 1, 1952. Class 12.

Textron Inc., Providence, R. I., assignor to Chatham Manufacturing Company. Blankets. 565,123, Oct. 7; Serial No. 625,442 published July 1, 1952. Class 42.

Thomas, S. B., Inc., Long Island City, N. Y. Muffins and bread. 565,109, Oct. 7; Serial No. 623,487, published June 24, 1952. Class 46.

Thrifty Drug Company, Ltd., doing business as Thrifty Drug Stores, to Thrifty Drug Stores Co. Inc., Los Angeles, Calif. Pharmaceutical preparations. 292,272, renewed Mar. 8, 1952. O. G. Oct. 7. Class 51.

Thrifty Drug Stores: *See*—
Thrifty Drug Company, Ltd.

Thrifty Drug Stores Co. Inc.: *See*—
Thrifty Drug Company, Ltd.

Time, Incorporated, New York, N. Y. Weekly magazine. 565,060–1. Oct. 7; Serial Nos. 621,236–7, published July 15, 1952. Class 38.

Time, Incorporated, New York, N. Y. Monthly magazine. 565,088. Oct. 7; Serial No. 622,184, published July 1, 1952. Class 38.

Tom Tucker Beverage Company, Pittsburgh, Pa. Non-alcoholic, nonecreal, maltless beverages. 564,858. Oct. 7: Serial No. 576,780, published July 1, 1952. Class 45.

Toscony Fabrics, Inc., New York, N. Y. Unsupported vinyl sheeting. 564,980. Oct. 7; Serial No. 614,272, published July 15, 1952. Class 42.

Townsend, Ralph M.: *See*—
Floriorange Canneries, Inc.

Triangle Publications, Inc., Philadelphia, Pa. Monthly periodical. 565,042, Oct. 7; Serial No. 620,632, published July 1, 1952. Class 38.

Trimble, Inc., Rochester, N. Y. Infants' bath stands. 565,116, Oct. 7; Serial No. 623,782, published July 15, 1952. Class 32.

Triton Manufacturing Company, Incorporated, East Haddam, Conn. Portable power-driven sprayers. 565,145, Oct. 7; Serial No. 600,632. Class 23.

Tru-Sheen Corporation, Richmond, Calif. Dry-cleaning solns and detergents. 564,872. Oct. 7; Serial No. 585,351, published July 8, 1952. Class 52.

Trusal Manufacturers, Inc., New York, N. Y. Outer shirts. 565,014. Oct 7; Serial No. 618,134, published May 27, 1952. Class 39.

Tupper Shoes, Inc., New York N. Y. Ladies' shoes. 564,972. Oct. 7; Serial No. 613,351, published Jan. 8, 1952. Class 39.

Turf Publishing Co., The: *See*—
Authority Publishing Corp.

Tyler, W. S., Company, The, Cleveland, Ohio. Classifying machines. 294,984, renewed June 14, 1952. O. G. Oct. 7. Class 26.

Ullman, Sigmund, Co., New York, to Sun Chemical Corporation, Long Island City, N. Y. Printing-inks. 38,689, re-renewed July 29, 1952. O. G. Oct. 7. Class 11.

Union Carbide and Carbon Corporation: *See*—
Carbide and Carbon Chemicals Corporation.
National Carbon Company.

United Industries, Inc., doing business as Power Tools Inc., Chicago, Ill., and Beloit, Wis. Convertible machine tools. 565,139, Oct. 7; Serial No. 579,458. Class 23.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. 564,989, Oct. 7; Serial No. 615,584, published July 15, 1952. Class 42.

United States Gypsum Company, Chicago, Ill. Lime. 564,831, Oct. 7; Serial No. 546,135, published July 1, 1952. Class 6.

United States Rubber Company, New York, N. Y. Men's boots. 564,909, Oct. 7; Serial No. 601,241, published June 10, 1952. Class 39.

Universal Atlas Cement Company: *See*—
Atlas Portland Cement Company, The.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 297,075, renewed Aug. 30, 1952. O. G. Oct. 7. Class 18.

Upjohn Company, The, Kalamazoo, Mich. Extract of liver preparation. 299,230, renewed Nov. 22, 1952. O. G. Oct. 7. Class 18.

Valcourt, Inc., Roonton, N. J. Powder puffs. 565,148, Oct. 7; Serial No. 609,669. Class 29.

Vapofier Corporation: *See*—
Railway Locomotor Company.

Vendomatic, Torrance, Calif. Insurance brokerage. 565,129–31, Oct. 7; Serial Nos. 593,028–30, published July 15, 1952. Class 102.

Vereinigten Uhrenfabriken von Gebrüder Junghans & Thomas Haller A-G., to Gebrüder Junghans Aktiengesellschaft, Schramberg, Germany. Clocks, watches, clockworks and parts thereof. 83,623, re-renewed Sept. 26, 1951. O. G. Oct. 7. Class 27.

Vilapiana Guerrero y Cia.: *See*—
Cuba Industrial y Comercial, S. A.

Vimco Macaroni Products Company, Carnegie, Pa. Macaroni. 564,941, Oct. 7; Serial No. 609,425, published June 24, 1952. Class 46.

W. L. W. Mfg. Co., Inc., Chicago, Ill. Pinking shears. 565,033. Oct. 7; Serial No. 620,116, published June 17, 1952. Class 23.

Wain, Shiell & Son Limited, London, England. Piece goods. 564,975. Oct. 7; Serial No. 613,619, published July 8, 1952. Class 42.

Warner-Hudnut, Inc.: *See*—
Schering & Glatz, Inc.

Warwick Chemical Company, West Warwick, R. I., to Sun Chemical Corporation, Long Island City, N. Y. Substances or chemicals for producing a water repellent and/or water-proof finish for textiles. 297,056, renewed Aug. 30, 1952. O. G. Oct. 7. Class 6.

Washougal Woolen Mills, doing business as West Coast Woolen Mills, Ltd., Washougal, Wash. Woolen fabrics. 296,009, renewed July 19, 1952. O. G. Oct. 7. Class 42.

Waterbury Mattress Co., The, Waterbury, Conn. Mattresses, box springs. 564,828, Oct. 7; Serial No. 541,238, published July 15, 1952. Class 32.

Weco Products Company, Chicago, Ill. Toothbrushes and denture brushes. 565,110–12, Oct. 7; Serial Nos. 623,490–2, published July 15, 1952. Class 29.

Weekly Publications, Inc., New York, N. Y. Department or section of a periodical publication. 565,030, Oct. 7; Serial No. 619,906, published July 1, 1952. Class 38.

West Coast Woolen Mills, Ltd.: *See*—
Washougal Woolen Mills.

Westgate-Sun Harbor Company, San Diego, Calif. Canned tuna fish. 565,056, Oct. 7; Serial No. 621,181, published July 8, 1952. Class 46.

Westinghouse Electric Corporation: *See*—
Westinghouse Electric & Manufacturing Company.

Westinghouse Electric & Manufacturing Company, to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electric welding machines. 297,335, renewed Sept. 13, 1952. O. G. Oct. 7. Class 21.

Whistlecleaan Division L. Sonneborn Sons, Inc.: *See*—
Sonneborn, L., Sons, Inc.

White Stag Mfg. Co., Portland, Oreg. Women's short slacks. 565,057, Oct. 7; Serial No. 621,183, published June 17, 1952. Class 39.

White, Wilbur, Chemical Company, The, Owego, N. Y., to Franklin Research Company, Philadelphia, Pa. Emulsion. 298,232, renewed Oct. 18, 1952. O. G. Oct. 7. Class 6.

Wilcox & Gibbs Sewing Machine Company, New York, N. Y. Sewing-machines, sewing-machine parts, and sewing-machine binders, etc. 86,853, re-renewed June 4, 1952. O. G. Oct. 7. Class 23.

Williams, J. B., Company, The: *See*—
Curtis, William M.

Wine Growers Guild, Lodi, Calif. Wines. 564,939, Oct. 7; Serial No. 609,326, published July 8, 1952. Class 47.

Wirthmore Feed Co., Cleveland, Ohio. Poultry feed, livestock feed, pigeon feed, etc. 565,045, Oct. 7; Serial No. 620,796, published July 15, 1952. Class 46.

Wright-Batchelder Corporation, Boston, Mass. Shoe welts. 564,974, Oct. 7; Serial No. 613,549, published July 15, 1952. Class 39.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Germicidal, sanitizing, disinfectant, deodorant and fungicidal compound. 565,118, Oct. 7; Serial No. 624,116, published July 8, 1952. Class 6.

Wyeth Incorporated: *See*—
Philippe, Louis, Inc.

Xenoteck, Inc., Van Nuys, Calif. Preparations for use in overcoming the craving for tobacco. 565,058, Oct. 7; Serial No. 621,189, published June 24, 1952. Class 18.

Zak Machine Works, Inc., Troy, N. Y. Collar trimmer machines, cuff forming and pressing machines and wax injection molding machines. 564,891, Oct. 7; Serial No. 594,738, published June 17, 1952. Class 23.

Ziff-Davis Publishing Company, Chicago, Ill. Periodical. 565,097, Oct. 7; Serial No. 622,636, published July 1, 1952. Class 38.

Zonolite Company, Chicago, Ill. Plaster and concrete aggregate. 565,095, Oct. 7; Serial No. 622,474, published July 1, 1952. Class 12.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Cellular expanded bodies of plastic materials. The Sponge Rubber Products Company. 565,008, Oct. 7; Serial No. 617,771, published June 17, 1952.

Coal. The Berwind-White Coal Mining Company. 565,065, Oct. 7; Serial No. 621,304, published July 1, 1952.

Core and mold washes. Cities Service Oil Company. 564,966, Oct. 7; Serial No. 612,790, published July 8, 1952.

Cotton. The Haloid Company. 565,021, Oct. 7; Serial No. 618,852, published July 8, 1952.

Flowers, Fresh, and bouquets. Bouquet of the Month Club by Harris, Inc. 564,873, Oct. 7; Serial No. 585,643, published July 1, 1952.

Fur pelts. American Fox Breeders Association. 565,075, Oct. 7; Serial No. 621,697, published July 1, 1952.

Ice, Manufactured. Amarillo Ice Company. 565,011, Oct. 7; Serial No. 617,904, published July 1, 1952.

Leather, Finished. Seroussi Brothers, Inc. 565,059, Oct. 7; Serial No. 621,229, published July 8, 1952.

Leather, Sole. Armour and Company. 564,874, Oct. 7; Serial No. 585,905, published June 24, 1952.

Sand; clay; fuller's earth, etc. Omnipol, Limited Company. 564,839, Oct. 7; Serial No. 559,807, published July 8, 1952.

CLASS 2

Bags, boxes, and cartons. Protective Coatings Corporation. 564,851, Oct. 7; Serial No. 573,195, published July 8, 1952.

Bags, Garment storage. Rassenfoss Bag Company. 564,840, Oct. 7; Serial No. 560,658, published July 8, 1952.

Bags, Paper and plastic, and plastic bottles and jars. Rile-Coe Filter Process, Inc. 564,847, Oct. 7; Serial No. 565,373, published July 8, 1952.

Bottle, Portable, plastic. Schwarz Bros. Plastics Inc. 564,924, Oct. 7; Serial No. 607,608, published July 15, 1952.

Cartons, Shipment and display. J. K. Newhall. 564,863, Oct. 7; Serial No. 579,124, published July 8, 1952.

Coasters, Drinking glass, kitchen canister sets, ornamental holders, etc. Columbus Plastic Products, Inc. 564,913, Oct. 7; Serial No. 602,598, published Apr. 29, 1952.

CLASS 4

Perlite aggregate, Expanded and/or comminuted. Great Lakes Carbon Corporation. 564,986, Oct. 7; Serial No. 615,217, published July 1, 1952.

Polish, Metal. N. S. Meyer, Inc. 297,249, renewed Sept. 6, 1952. O. G. Oct. 7.

CLASS 5

Film cement. Sears, Roebuck and Co. 564,861, Oct. 7; Serial No. 577,611, published Jan. 22, 1952.

Mounting material for a wall support comprising a strip of latex material with two sides thereof treated to receive adhesive material. J. E. Donaldson. 565,138, Oct. 7; Serial No. 572,730.

CLASS 6

Aromatic bodies. Fritzsche Brothers, Inc. 299,176, renewed Nov. 22, 1952. O. G. Oct. 7.

Chemical composition. Hanson-Van Winkle-Munning Company. 565,114, Oct. 7; Serial No. 623,653, published July 15, 1952.

Chemical used to extinguish fires; insecticide and room deodorant. Bostwick Laboratories, Inc. 564,860, Oct. 7; Serial No. 577,420, published July 15, 1952.

Chemicals and chemical compositions. The Harshaw Chemical Company. 565,020, Oct. 7; Serial No. 618,793, published July 8, 1952.

Deodorant, Air. The Interstate Sanitation Company. 564,888, Oct. 7; Serial No. 594,175, published July 15, 1952.

Developer used in developing color of diazo-images photochemically printed on paper. Charles Brüning Company, Inc. 565,125, Oct. 7; Serial No. 626,143, published July 8, 1952.
Disinfectants and insecticides. Globe Laboratories. 564,898, Oct. 7; Serial No. 597,441, published July 15, 1952.
Disinfectants, Animal. Kennel Comfort. 564,907, Oct. 7; Serial No. 601,151, published July 15, 1952.
Electrolytic baths. Societe de Produits Chimiques des Terres Rares. 564,901, Oct. 7; Serial No. 598,504, published July 15, 1952.
Emulsion. The Wilbur White Chemical Company. 298,232, renewed Oct. 18, 1952. O. G. Oct. 7.
Enzyme preparation. Takamine Laboratory, Inc. 565,049, Oct. 7; Serial No. 620,940, published July 8, 1952.
Epsom salt, alkali metal silicates, sodium carbonate, etc. Philadelphia Quartz Company of California. 565,106, Oct. 7; Serial No. 623,070, published July 8, 1952.
Germicidal, sanitizing, disinfectant, deodorant and fungicidal compound. Wyandotte Chemicals Corporation. 565,118, Oct. 7; Serial No. 624,116, published July 8, 1952.
Insecticides. The Pennsylvania Salt Manufacturing Company. 564,905, Oct. 7; Serial No. 600,072, published July 8, 1952.
Insecticides. Remington Products Corporation. 564,882, Oct. 7; Serial No. 591,648, published July 8, 1952.
Lime. United States Gypsum Company. 564,831, Oct. 7; Serial No. 546,135, published July 1, 1952.
Lye. The Pennsylvania Salt Manufacturing Company. 565,105, Oct. 7; Serial No. 623,010, published July 8, 1952.
Mineral white oil, petrolatum, and petroleum sulphonates. Petroleum Specialties, Inc. 565,055, Oct. 7; Serial No. 621,167, published July 8, 1952.
Perfumed deodorant blocks, mothproofing liquid, insecticide, etc. Central O-B Products Co. Inc. 565,089, Oct. 7; Serial No. 622,200, published July 8, 1952.
Petroleum gas, Liquefied. The Bing Gas Company. 564,998, Oct. 7; Serial No. 616,755, published July 15, 1952.
Pine tar. Jas. Corner & Sons. 83,898, re-renewed Oct. 24, 1951. O. G. Oct. 7.
Self-igniting incense sticks and caps. H. R. Hartley. 565,120, Oct. 7; Serial No. 624,765, published July 15, 1952.
Solvents. Carbide and Carbon Chemicals Corporation. 297,849, renewed Oct. 4, 1952. O. G. Oct. 7.
Substances or chemicals for producing a water repellent and/or water-proof finish for textiles. Warwick Chemical Company. 297,056, renewed Aug. 30, 1952. O. G. Oct. 7.
Synthetic resin materials. Monsanto Chemical Company. 565,094, Oct. 7; Serial No. 622,446, published July 8, 1952.
Synthetic sulfonates of organic compounds. Bray Chemical Company. 565,071, Oct. 7; Serial No. 621,653, published July 8, 1952.

CLASS 8

Lighters for smokers, Pyrophoric. Karat-Werk Maschinen- und Metallwarenfabrik Gesellschaft m.b.H. 565,001, Oct. 7; Serial No. 617,036, published July 8, 1952.
Smokers' articles. Bryn Mawr Smokers Novelty Co. 564,875, Oct. 7; Serial No. 586,839, published July 15, 1952.

CLASS 11

Printing-inks. Sigmund Ullman Co. 38,689, re-renewed July 29, 1952. O. G. Oct. 7.

CLASS 12

Acoustical plaster. Blue Diamond Corporation. 565,081, Oct. 7; Serial No. 621,858, published July 1, 1952.
Asphalt roofing shingle. The Frelox Shingle Corporation. 565,101, Oct. 7; Serial No. 622,787, published July 1, 1952.
Bituminous and mastic materials. Coalite and Chemical Products Limited. 564,895, Oct. 7; Serial No. 596,714, published July 1, 1952.
Bricks. The Atlas Portland Cement Company. 88,047, re-renewed Aug. 27, 1952. O. G. Oct. 7.
Caulking and glazing compound. Presstite Engineering Company. 564,971, Oct. 7; Serial No. 613,187, published July 1, 1952.
Caulking compound, Non-vulcanizable. A. H. De Van, Jr. 564,897, Oct. 7; Serial No. 597,257, published Nov. 27, 1951.
Cement base coating. H. W. Cairns. 565,063, Oct. 7; Serial No. 621,255, published July 8, 1952.
Doors. Casey Door Company. 565,016, Oct. 7; Serial No. 618,342, published July 1, 1952.
Iron Compound. Smooth-On Manufacturing Company. 299,149, renewed Nov. 22,1952. O. G. Oct. 7. Class 12.
Joint compounds. National Clay Pipe Manufacturers, Inc. 565,134, Oct. 7; Serial No. 618,302, published July 8, 1952.
Molded building stone. M. Principe. 565,083, Oct. 7; Serial No. 621,900, published July 1, 1952.
Plaster and concrete aggregate. Zonolite Company. 565,095, Oct. 7; Serial No. 622,474, published July 1, 1952.
Refractory mixture. Harbison-Walker Refractories Company. 564,919, Oct. 7; Serial No. 605,856, published June 24, 1952.
Shingles, Roofing. The Texas Company. 564,963, Oct. 7; Serial No. 612,282, published July 1, 1952.
Tile, Floor and wall. Kentile, Inc. 564,991, Oct. 7; Serial No. 615,713, published July 8, 1952.
Tile, Interior decorative wall. Peerless Plastics. 565,085, Oct. 7; Serial No. 621,979, published July 1, 1952.
Wall covering, Resinous plastic. The Pantasote Co. 564,880, Oct. 7; Serial No. 590,281, published Dec. 19, 1950.

CLASS 15

Oil, Lubricating. Continental Oil Company. 292,122, renewed Mar. 1, 1952. O. G. Oct. 7.
Oil, Lubricating. Continental Oil Company. 292,519, renewed Mar. 15, 1952. O. G. Oct. 7.
Oil, Lubricating. Continental Oil Company. 292,596–7, renewed Mar. 15, 1952. O. G. Oct. 7.

CLASS 16

Paint, Ready mixed, paint enamel, lacquers, etc. Rinshed-Mason Company. 296,297–300, renewed Aug. 2, 1952. O. G. Oct. 7.

CLASS 17

Cigarettes. Stepheno Brothers. 565,079, Oct. 7; Serial No. 621,791, published July 8, 1952.
Cigarettes and smoking tobacco. Liggett & Myers Tobacco Company. 564,870, Oct. 7; Serial No. 584,676, published July 15, 1952.
Cigars. The Grocers & Producers Co. 294,506, renewed May 31, 1952. O. G. Oct. 7.
Cigars. R. C. Jacobs. 564,900, Oct. 7; Serial No. 598,368, published July 15, 1952.

CLASS 18

Capsulated vitamin preparations, capsulated drugs and medicinal preparations and mixtures, etc. R. P. Scherer Corporation. 564,894, Oct. 7; Serial No. 595,987, published June 17, 1952.
Extract of liver preparation. The Upjohn Company. 299,230, renewed Nov. 22, 1952. O. G. Oct. 7.
Liniment preparation. Ali Debeh. 565,046, Oct. 7; Serial No. 620,804, published June 17, 1952.
Medicinal preparation. R. Garria. 565,000, Oct. 7; Serial No. 616,954, published June 17, 1952.
Medicinal preparation. The Upjohn Company. 297,075, renewed Aug. 30, 1952. O. G. Oct. 7.
Medicinal preparations. Dr. Earl S. Sloan, Incorporated. 294,827, renewed June 7, 1952. O. G. Oct. 7.
Medicinal skin lotion. Scientific Solutions, Inc. 564,994, Oct. 7; Serial No. 615,857, published July 8, 1952.
Medicine, Stomach and bowel. The Adlerika Company. 294,736, renewed June 7, 1952. O. G. Oct. 7.
Medicines and pharmaceuticals. Armour and Company. 564,915, Oct. 7; Serial No. 603,220, published June 17, 1952.
Pharmaceutical preparation. Cilag Aktiengesellschaft. 564,866, Oct. 7; Serial No. 582,276, published May 13, 1952.
Pharmaceutical preparation. Charles E. Frosst & Co. 565,050, Oct. 7; Serial No. 620,963, published June 17, 1952.
Potassium guiacol-sulfonate. The Hoffmann-La Roche Chemical Works. 80,717, Jan. 24, 1911. Amended. O. G. Oct. 7. (Formerly class 6.)
Powdered preparation to alleviate the pains, stiffness, etc., of arthritis, rheumatism, etc. M. J. Dillinger. 564,928, Oct. 7; Serial No. 608,057, published June 17, 1952.
Preparation for the relief of athlete's foot, ingrowing toenails, corns, etc. K-M Chemical Co. 564,955, Oct. 7; Serial No. 611,096, published June 17, 1952.
Preparation for the treatment of hemorrhoids. R. S. Headland. 296,332, renewed Aug. 2, 1952. O. G. Oct. 7.
Preparations for the treatment of colds and hay fever. The Grove Laboratories, Inc. 565,126, Oct. 7; Serial No. 628,021, published July 8, 1952.
Preparations for use in overcoming the craving for tobacco. Xenoteck, Inc. 565,058, Oct. 7; Serial No. 621,189, published June 24, 1952.
Remedy for phthisis. F. Hoffmann-La Roche & Cie. 32,563, Feb. 28, 1899. Amended. O. G. Oct. 7. (Formerly class 6.)
Sedative hypnotic. Nepera Chemical Co. Inc. 565,047, Oct. 7; Serial No. 620,815, published June 17, 1952.
Sedative medicine. Harwood Pharmacal Co., Inc. 565,151, Oct. 7; Serial No. 612,395.
Spasmolytic. C. H. B. Sohn. 564,964, Oct. 7; Serial No. 612,434, published June 17, 1952.
Suppositories. Schering & Glatz, Inc. 294,645, renewed June 7, 1952. O. G. Oct. 7.
Vitamin concentrates, dry vitamin fortifiers, animal proteins, etc. Davis Enterprises, Inc. 565,136, Oct. 7; Serial No. 550,221.
Vitamin preparation. Bristol Laboratories Inc. 564,837, Oct. 7; Serial No. 558,104, published Sept. 12, 1950.

CLASS 20

Floor covering of the nature of linoleum, Hard surface. Sloane-Blabon Corporation. 565,039, Oct. 7; Serial No. 620,556, published July 15, 1952.

CLASS 21

Dry cells. National Carbon Company. 88,341, re-renewed Sept. 10, 1952. O. G. Oct. 7.
Light fixture units, Electric. Hospo, Inc. 294,301, renewed May 24, 1952. O. G. Oct. 7.
Welding machines, Electric. Westinghouse Electric & Manufacturing Company. 297,335, renewed Sept. 13, 1952. O. G. Oct. 7.

CLASS 22

Bandelore toy spinning tops. Donald F. Duncan, Incorporated. 565,098, Oct. 7; Serial No. 622,643, published July 15, 1952.
Fishing lures, Artificial. Lur-Ozark, Inc. 565,054, Oct. 7; Serial No. 621,154, published July 15, 1952.

CLASS 23

Aerators. The Bin-Dicator Company. 564,845, Oct. 7; Serial No. 562,307, published June 17, 1952.
Alarm whistle for low pressure in automobile tires. Taylor-Hall Corp. 565,146, Oct. 7; Serial No. 601,858.
Can marking machines. Bruce Engineering Corporation. 564,881, Oct. 7; Serial No. 590,802, published June 17, 1952.
Collar trimmer machines, cuff forming and pressing machines and wax injection molding machines. Zak Machine Works, Inc. 564,891, Oct. 7; Serial No. 594,738, published June 17, 1952.
Convertible machine tools. United Industries, Inc. 565,139, Oct. 7; Serial No. 579,458.
Cutters and holders therefor. The O. K. Tool Holder Company. 85,675, re-renewed Mar. 5, 1952. O. G. Oct. 7.
Cylinder blocks, cylinder heads, pistons, etc. Chrysler Corporation. 298,920, renewed Nov. 15, 1952. O. G. Oct. 7.
Drum sanders. T. Longbotham. 565,155, Oct. 7; Serial No. 617,801.
Electrically heated and mechanically driven machines. The Meyercord Co. 565,140, Oct. 7; Serial No. 595,610.
Engines and spare parts of same, Internal combustion. The Autocar Company. 294,109, renewed May 17, 1952. O. G. Oct. 7.
Engraving machines. New Hermes, Inc. 564,876, Oct. 7; Serial No. 587,903, published June 17, 1952.
Extension pieces for socket wrenches. Bonney Forge and Tool Works. 565,137, Oct. 7; Serial No. 571,193.
Fabric working machines. Consolidated Sewing Machine and Supply Co., Inc. 564,865, Oct. 7; Serial No. 580,926, published June 17, 1952.
Files. Simonds Saw and Steel Company. 298,558, renewed Nov. 1, 1952. O. G. Oct. 7.
Knives, Pocket, kitchen, and hunting. Brown & Bigelow. 564,823, Oct. 7; Serial No. 528,190, published June 17, 1952.
Knives, Pocket, safety razor blades, and safety razors. The Christy Company. 564,965, Oct. 7; Serial No. 612,588, published June 17, 1952.
Label cutting and folding machines. The Nu-Label Machine Corporation. 565,150, Oct. 7; Serial No. 611,654.
Paper slitting and stacking machines. The National Cash Register Company. 298,405, renewed Oct. 25, 1952. O. G. Oct. 7.
Pistons and parts thereof, engine valves, cylinder sleeves, etc. Lindeteves Inc. 564,943, Oct. 7; Serial No. 609,933, published June 17, 1952.
Pneumatic tube dispatch systems, carriers and terminals. The Grover Company. 565,147, Oct. 7; Serial No. 603,481.
Power units, Variable speed. Reeves Pulley Company. 564,879, Oct. 7; Serial No. 588,656, published June 3, 1952.
Ring travelers. National Ring Traveler Company. 565,142, Oct. 7; Serial No. 596,179.
Sewing-machines, sewing-machine parts, and sewing-machine binders, etc. Willcox & Gibbs Sewing Machine Company. 86,853, re-renewed June 4, 1952. O. G. Oct. 7.
Shears, Pinking. W. L. W. Mfg. Co., Inc. 565,033, Oct. 7; Serial No. 620,116, published June 17, 1952.
Spray pumps, Hand and power operated, and power operated portable and stationary spray outfits. Century Engineering Corporation. 564,856, Oct. 7; Serial No. 576,113, published June 17, 1952.
Sprayers, Portable power-driven. Triton Manufacturing Company, Incorporated. 565,145, Oct. 7; Serial No. 600,632.
Wrenches, boring bits, and punches. Flexible Steel Lacing Company. 298,525, renewed Nov. 1, 1952. O. G. Oct. 7.

CLASS 25

Locks and keys and parts thereof. Schlage Lock Company. 565,022, Oct. 7; Serial No. 619,170, published July 15, 1952.

CLASS 26

Classifying machines. The W. S. Tyler Company. 294,984, renewed June 14, 1952. O. G. Oct. 7.

CLASS 27

Clocks, watches, clockworks and parts thereof. Vereinigten Uhrenfabriken von Gebrüder Junghans & Thomas Haller A-G. 83,623, re-renewed Sept. 26, 1951. O. G. Oct. 7.

CLASS 29

Brushes. Johnson & Johnson. 564,997, Oct. 7; Serial No. 616,671, published May 6, 1952.
Brushes, Shaving, hair brushes, clothes brushes. Sears, Roebuck and Co. 565,096, Oct. 7; Serial No. 622,624, published July 8, 1952.
Brushes, Tooth. Sears, Roebuck and Co. 565,087, Oct. 7; Serial No. 622,035, published July 8, 1952.
Mops. The New York Association for the Blind, Inc. 564,920, Oct. 7; Serial No. 606,037, published July 1, 1952.
Powder puffs. Valcourt, Inc. 565,148, Oct. 7; Serial No. 609,669.
Toothbrushes and denture brushes. Weco Products Company. 565,110–12, Oct. 7; Serial Nos. 623,490–2, published July 15, 1952.

CLASS 30

Dinnerware, china, pottery, etc. Metlox Manufacturing Co. 565,135, Oct. 7; Serial No. 542,857.

CLASS 32

Bath stands, Infants'. Trimble, Inc. 565,116, Oct. 7; Serial No. 623,782, published July 15, 1952.
Chairs and stools. Falco Products Co. 565,051, Oct. 7; Serial No. 621,008, published July 15, 1952.
Furniture. Kent-Coffey Manufacturing Company. 564,967, Oct. 7; Serial No. 612,917, published July 15, 1952.
Furniture. Kent-Coffey Manufacturing Company. 564,968, Oct. 7; Serial No. 612,920, published July 15, 1952.
Lockers, Metal clothes and analogous. Fred Medart Manufacturing Co. 296,737, renewed Aug. 16, 1952. O. G. Oct. 7.
Mattresses and box springs. The Englander Company, Inc. 565,117, Oct. 7; Serial No. 623,878, published July 15, 1952.
Mattresses, box springs. The Waterbury Mattress Co. 564,828, Oct. 7; Serial No. 541,238, published July 15, 1952.
Seat back rest, Portable detachable, and combination seat cushion and carrying case. A. B. Lake. 564,917, Oct. 7; Serial No. 605,555, published July 15, 1952.
Seat for dentists, opticians, barbers, and the like, Adjustable. McCaldry, Inc. 565,152, Oct. 7; Serial No. 616,565.
Spring assemblies for upholstered furniture. Nachman Corporation. 564,849, Oct. 7; Serial No. 570,741, published July 15, 1952.

CLASS 33

Glass, Sheet, American Window Glass Company. 294,806, renewed June 7, 1952. O. G. Oct. 7.
Glass, Sheet, American Window Glass Company. 294,989–90, renewed June 14, 1952. O. G. Oct. 7.

CLASS 34

Burner, Oil. Railway Locomotor Company. 296,628, renewed Aug. 16, 1952. O. G. Oct. 7.
Lamps, lanterns, heaters, etc., Gasoline burning. The Coleman Lamp and Stove Company. 295,262, renewed June 28, 1952. O. G. Oct. 7.

CLASS 35

Tires, Pneumatic, and pneumatic tubes therefor. Pacific Tire & Rubber Company. 565,124, Oct. 7; Serial No. 626,045, published July 15, 1952.

CLASS 37

Crayons. Binney & Smith Company. 565,082, Oct. 7; Serial No. 621,857, published June 17, 1952.
Crayons. Morley-Stein Products. 565,119, Oct. 7; Serial No. 624,607, published July 15, 1952.
Crayons, pencils, pens, etc. American Drawing Material, Inc. 565,121, Oct. 7; Serial No. 624,805, published July 15, 1952.
Label stock. Nashua Gummed and Coated Paper Company. 564,842, Oct. 7; Serial No. 561,329, published Aug. 21, 1951.
Notebooks, tablets, loose-leaf binders, etc. Springfield Tablet Manufacturing Company. 565,048, Oct. 7; Serial No. 620,903, published July 8, 1952.
Paper, Crepe, tissue, and toilet, paper napkins, etc. American Tissue Mills. 298,873, renewed Nov. 8, 1952. O. G. Oct. 7.
Paper towels. American Linen Supply Co. 565,041, Oct. 7; Serial No. 620,563, published July 15, 1952.
Paper towels and paper toilet tissue. American Linen Supply Co. 565,040, Oct. 7; Serial No. 620,562, published July 15, 1952.
Paper tray covers. Crown Zellerbach Corporation. 565,007, Oct. 7; Serial No. 617,601, published July 15, 1952.
Papers, Wrapping and toilet. Hubbs & Corning Company. 294,487, renewed May 31, 1952. O. G. Oct. 7.

CLASS 38

Almanacs, directories, agenda-books, etc. Societe Anonyme de l'Annuaire du Commerce Didot-Bottin. 564,911, Oct. 7; Serial No. 601,526, published June 17, 1952.

Books. The New American Library of World Literature, Inc. 565,076–7, Oct. 7; Serial Nos. 621,721–22, published July 15, 1952.

Cartoons. NEA Service, Inc. 565,090, Oct. 7; Serial No. 622,221, published July 1, 1952.

Column for weekly trade publication. Elliott Service Company, Inc. 565,078, Oct. 7; Serial No. 621,760, published July 1, 1952. Class 38.

Column in a newspaper publication. Parade Publication, Inc. 565,073, Oct. 7; Serial No. 621,681, published July 15, 1952.

Column in printed periodicals and magazines. TeleVision Guide, Inc. 565,084, Oct. 7; Serial No. 621,921, published July 1, 1952.

Column of a newspaper. The Oklahoma Publishing Company. 565,072, Oct. 7; Serial No. 621,680, published July 1, 1952.

Columns published in newspapers. A. Bell. 564,981, Oct. 7; Serial No. 614,284, published July 15, 1952.

Decalcomania signs, printed creeds, manuals, etc. Grand Aerie Fraternal Order of Eagles. 564,926, Oct. 7; Serial No. 607,993, published July 1, 1952.

Department or section of a periodical publication. Weekly Publications, Inc. 565,030, Oct. 7; Serial No. 619,906, published July 1, 1952.

Industrial directory, buyer's guide and classified telephone directory. Bell Directory Publishers, Inc. 565,003, Oct. 7; Serial No. 617,432, published July 1, 1952.

Industrial directory, buyer's guide and classified telephone directory. Industrial Directory Publishers. 565,004, Oct. 7; Serial No. 617,441, published July 1, 1952.

Letters, Children's. M. H. Black. 565,067, Oct. 7; Serial No. 621,386, published July 8, 1952.

Magazine, Monthly. Time, Incorporated. 565,088, Oct. 7; Serial No. 622,184, published July 1, 1952.

Magazine, Weekly. Time, Incorporated. 565,060–1, Oct. 7; Serial Nos. 621,236–7, published July 15, 1952.

Magazines. Repertoire, Inc. 565,006, Oct. 7; Serial No. 621,377, published July 15, 1952.

Newspaper. Independent Industrial Workers Association. 564,934, Oct. 7; Serial No. 608,992, published June 17, 1952.

Newspaper. Signal Publications. 565,027, Oct. 7; Serial No. 619,683, published June 24, 1952.

Periodical. Clarostat Mfg. Co., Inc. 565,034, Oct. 7; Serial No. 620,143, published July 1, 1952.

Periodical. Judy Publishing Company. 565,044, Oct. 7; Serial No. 620,735, published July 1, 1952.

Periodical. Ziff-Davis Publishing Company. 565,097, Oct. 7; Serial No. 622,636, published July 1, 1952.

Periodical, Monthly. Triangle Publications, Inc. 565,042, Oct. 7; Serial No. 620,632, published July 1, 1952.

Periodicals, Printed. Magna Engineering Corporation. 565,091, Oct. 7; Serial No. 622,306, published July 1, 1952.

Philatelic stamps. Joe Lowe Corporation. 564,906, Oct. 7; Serial No. 600,596, published July 1, 1952.

Picture postcards, pictures, books, etc. Società "Ambrosiana" Riproduzioni Sacre. 564,862, Oct. 7; Serial No. 578,902, published July 1, 1952.

Printed creeds, manuals, directories and rosters, etc. Grand Aerie Fraternal Order of Eagles. 564,927, Oct. 7; Serial No. 607,997, published July 1, 1952.

Publication. Acme Steel Company. 564,962, Oct. 7; Serial No. 611,992, published July 1, 1952.

Publication. Doane Agricultural Service, Inc. 565,035, Oct. 7; Serial No. 620,199, published July 1, 1952.

Publication, Calendar-type, and for a newspaper column. R. Sandler. 565,005, Oct. 7; Serial No. 617,513, published July 15, 1952.

Publication, Daily. Authority Publishing Corp. 290,868, renewed Jan. 19, 1952. O. G. Oct. 7.

Publication, House organ. Mishawaka Rubber and Woolen Manufacturing Company. 565,052, Oct. 7; Serial No. 621,021, published July 15, 1952.

Publication, Periodical. The National Provisioner, Inc. 565,108, Oct. 7; Serial No. 623,473, published July 15, 1952.

Publication, Weekly periodical. American Lumberman, Inc. 565,113, Oct. 7; Serial No. 623,637, published July 15, 1952.

Section of a periodical. Haire Publishing Company. 565,037, Oct. 7; Serial No. 620,342, published July 1, 1952.

Section of a weekly publication. Barron's Publishing Company, Inc. 564,835, Oct. 7; Serial No. 555,365, published June 24, 1952.

Series of cartoons or comic strips. The Hearst Corporation. 564,958, Oct. 7; Serial No. 611,699, published July 1, 1952.

Syndicated articles in newspapers, periodicals, and magazines. L. H. Cross. 564,883, Oct. 7; Serial No. 592,075, published July 1, 1952.

Trade certificates. C I C Enterprises, Inc. 565,099–100, Oct. 7; Serial Nos. 622,694–5, published July 8, 1952.

CLASS 39

Bathing suits. A. Mosen. 564,821, Oct. 7; Serial No. 503,585, published May 20, 1952.

Boots, Men's. United States Rubber Company. 564,909, Oct. 7; Serial No. 601,241, published June 10, 1952.

Clothing, Children's. W. Boyd. 565,069, Oct. 7; Serial No. 621,541, published July 8, 1952.

Clothing, Men's. Society Brand Clothes, Inc. 564,852, Oct. 7; Serial No. 575,232, published June 10, 1952.

Clothing, Women's and girls', men's and boys' clothing, infants' clothing. E. Hildebrand. 564,855, Oct. 7; Serial No. 575,859, published July 8, 1952.

Coats and jackets, Men's. John Alexander of New Haven. 564,869, Oct. 7; Serial No. 584,101, published July 8, 1952.

Coats and suits, Ladies'. Fitts Dry Goods Company. 565,086, Oct. 7; Serial No. 622,018, published June 10, 1952.

Coats and suits, Women's and misses'. F. F. Lehrer. 565,036, Oct. 7; Serial No. 620,262, published June 17, 1952.

Coats and suits, Women's and misses'. C. B. Shane Corporation. 565,093, Oct. 7; Serial No. 622,416, published July 15, 1952.

Coats and topcoats, Ladies' Joan Carol Corporation. 565,080, Oct. 7; Serial No. 621,813, published June 10, 1952.

Coats, Ladies', and men's overcoats. Aquascutum, Limited. 564,983, Oct. 7; Serial No. 614,684, published June 10, 1952.

Coats, suits, and sport jackets, Ladies'. Miss France Coats, Inc. 564,992, Oct. 7; Serial No. 615,715, published June 10, 1952.

Coats, suits, costumes, etc., Women's. Hebe Sports Limited. 564,956, Oct. 7; Serial No. 611,274, published Apr. 1, 1952.

Coats, suits, jackets and skirts, Ladies' and misses'. The House of Swansdown, Inc. 565,104, Oct. 7; Serial No. 622,997, published July 15, 1952.

Coats, suits, jackets and skirts, Ladies' and misses'. Philip Shlansky & Sons, Inc. 564,936, Oct. 7; Serial No. 609,144, published June 10, 1952.

Coats, vests, trousers, etc. J. Schoeneman Incorporated. 564,867, Oct. 7; Serial No. 582,398, published June 24, 1952.

Dresses, halters, outer shorts, outer shirts, etc., Women's, misses' and children's. Koret of California, Inc. 564,916, Oct. 7; Serial No. 605,311, published June 10, 1952.

Footwear. The Florsheim Shoe Company. 564,954, Oct. 7; Serial No. 611,085, published June 10, 1952.

Footwear. T. Lama. 565,015, Oct. 7; Serial No. 618,299, published July 15, 1952.

Footwear, Children's and misses'. Sears, Roebuck and Co. 564,844, Oct. 7; Serial No. 561,500, published June 10, 1952.

Garters, hose supporters and blouse belts, Women's and girls'. Beltx Corporation. 564,877, Oct. 7; Serial No. 588,474, published Oct. 9, 1951. (Consolidated certificate, Classes 39, 40, and 44.)

Hats, shoes, collars, etc. Men's and boys'. Saks & Company. 565,074, Oct. 7; Serial No. 621,685, published June 10, 1952.

Heels, Rubber, and rubber taps. The I. T. S. Company. 296,703, renewed Aug. 16, 1952. O. G. Oct. 7.

Helmets, gloves, shoes, etc., Children's. R. J. Corcoran. 564,945, Oct. 7; Serial No. 610,260, published July 1, 1952.

Hosiery. Julius Kayser & Co. 297,760, renewed Sept. 27, 1952. O. G. Oct. 7.

Necktles, belts, suspenders, etc., Men's and boys'. R. L. Cohen. 564,930, Oct. 7; Serial No. 608,448, published July 1, 1952.

Neckties, handkerchiefs, dressing gowns, and scarves. G. Ravasi. 564,908, Oct. 7; Serial No. 601,232, published June 10, 1952.

Outer wear shorts for men, women and children. D. S. Curtis. 564,942, Oct. 7; Serial No. 609,789, published June 10, 1952.

Overshoes, Women's. Joyce, Inc. 564,893, Oct. 7; Serial No. 595,786, published June 10, 1952.

Ready-to-wear, Women's. The House of Nine. 564,890, Oct. 7; Serial No. 594,715, published June 24, 1952.

Shirts, Outer. Truval Manufacturers, Inc. 565,014, Oct. 7; Serial No. 618,134, published May 27, 1952.

Shirts, undershirts and under shorts, Men's and boys' outer. Cluett, Peabody & Co., Inc. 564,984, Oct. 7; Serial No. 614,753, published Feb. 19, 1952.

Shoe welts. Wright-Batchelder Corporation. 564,974, Oct. 7; Serial No. 613,549, published July 15, 1952.

Shoes. Gallenkamp Stores Co. 564,910, Oct. 7; Serial No. 601,430, published June 10, 1952.

Shoes. International Shoe Co. 565,053, Oct. 7; Serial No. 621,066, published June 10, 1952.

Shoes. Johnson, Stephens, and Shinkle Shoe Company. 564,822, Oct. 7; Serial No. 527,382, published Apr. 25, 1950.

Shoes. Melville Shoe Corporation. 298,811, renewed Nov. 8, 1952. O. G. Oct. 7.

Shoes. Melville Shoe Corporation. 298,842, renewed Nov. 8, 1952. O. G. Oct. 7.

Shoes and moccasins, raincoats, rubber ponchos, etc., Men's, women's and children's. Henry Modell & Co., Inc. 564,827, Oct. 7; Serial No. 541,160, published June 10, 1952.

Shoes and slippers, Men's. Gly-Ders Footwear. 565,026, Oct. 7; Serial No. 619,618, published June 10, 1952.

Shoes, Ladies'. Tupper Shoes, Inc. 564,972, Oct. 7; Serial No. 613,351, published Jan. 8, 1952.

Shoes, Ladies' and girls'. Carlisle Shoe Company. 565,070, Oct. 7; Serial No. 621,543, published June 10, 1952.

Shoes, Men's and boys'. Littles Shoe Store. 565,018, Oct. 7; Serial No. 618,588, published June 24, 1952.

Shoes, Men's and boys' leather. Eagle Shoe Mfg. Company, Inc. 565,064, Oct. 7; Serial No. 621,262, published June 17, 1952.

Shoes, Women's. The Chesapeake Shoe Mfg. Co. 565,028, Oct. 7; Serial No. 619,740, published June 10, 1952.

Shoes, Women's and children's. Jay Shoe Manufacturing Co., Inc. 565,029, Oct. 7; Serial No. 619,757, published June 10, 1952.

Shoes, Women's sport. Oomphies, Inc. 564,951, Oct. 7; Serial No. 610,863, published July 15, 1952.

Slacks. Women's short. White Stag Mfg. Co. 565,057, Oct. 7; Serial No. 621,183, published June 17, 1952.

Slippers, House. S. Goldberg & Co. Inc. 565,013, Oct. 7; Serial No. 618,113, published June 10, 1952.

Slippers, moccasins, shoes, etc., Men's, women's, and children's leather and fabric. Foot Form Shoe Shops, Inc. 299,094, renewed Nov. 22, 1952. O. G. Oct. 7.

Soles and heels. The Bearfoot Sole Company, Inc. 565,043, Oct. 7; Serial No. 620,661, published July 15, 1952.

Sportswear, Ladies'. M. R. Fleischman Co. 564,938, Oct. 7; Serial No. 609,291, published June 10, 1952.

Sportswear, Men's and boys'. National Sportswear Corp. 564,940, Oct. 7; Serial No. 609,375, published May 27, 1952.

Suits, dresses and coats. Ladies', misses' and children's. Higginbotham Bailey Company. 564,977, Oct. 7; Serial No. 613,958, published July 15, 1952.

Suits, Ladies'. Merritt-Taylor Inc. 564,832, Oct. 7; Serial No. 548,664, published Oct. 26, 1948.

Suits, Ladies'. Suit-4-All, Inc. 564,944, Oct. 7; Serial No. 610,034, published June 10, 1952.

Suits, Men's. The Suit Shop. 564,889, Oct. 7; Serial No. 594,592, published July 8, 1952.

Suits, trousers, outer shirts and under shirts, etc. Dormeuil Freres. 564,903, Oct. 7; Serial No. 599,558, published June 3, 1952.

Sweaters, pull-overs, cardigans, etc., Knitted. Societe Anonyme Etablissements Andre Gillier. 295,389, renewed June 28, 1952. O. G. Oct. 7.

CLASS 40

Adjustable shoulder straps, brassière replacements, bra-girdle fasteners, etc. Beltx Corporation. 564,877, Oct. 7; Serial No. 603,874, published Mar. 4, 1952. (Consolidated certificate, Classes 39, 40, and 44.)

CLASS 42

Blankets. Textron Inc. 565,123, Oct. 7; Serial No. 623,442, published July 1, 1952.

Cloth, Rolls of. American Air Filter Company, Inc. 564,949, Oct. 7; Serial No. 610,660, published July 15, 1952.

Curtains, Window, and curtain fabrics. Sears, Roebuck and Co. 564,979, Oct. 7; Serial No. 614,110, published July 15, 1952.

Fabric in the piece, Worsted. Howse, Mead & Sons, Inc. 565,010, Oct. 7; Serial No. 617,879, published July 15, 1952.

Fabric in the piece, Worsted shetland and worsted sexony. Howse, Mead & Sons, Inc. 565,009, Oct. 7; Serial No. 617,877, published July 15, 1952.

Fabrics in the piece, Textile. Tanbro Fabrics Corp. 565,103, Oct. 7; Serial No. 622,866, published July 15, 1952.

Fabrics, Non-woven textile, table napkins, table cloths, etc. Chicopee Manufacturing Corporation of New Hampshire. 564,988, Oct. 7; Serial No. 615,371, published July 15, 1952.

Fabrics, Non-woven textile, towels, and napkins. Chicopee Manufacturing Corporation of New Hampshire. 564,987, Oct. 7; Serial No. 615,370, published July 15, 1952.

Fabrics, Textile. Hego Fabrics, Inc. 564,990, Oct. 7; Serial No. 615,707, published July 15, 1952.

Fabrics, Woolen. Washougal Woolen Mills. 296,009, renewed July 19, 1952. O. G. Oct. 7.

Fabrics, Woolen textile. The Printz-Biederman Company. 299,006, renewed Nov. 15, 1952. O. G. Oct. 7.

Piece goods. United Merchants and Manufacturers, Inc. 564,989, Oct. 7; Serial No. 615,584, published July 15, 1952.

Piece goods. Wain, Shiell & Son Limited. 564,975, Oct. 7; Serial No. 613,619, published July 8, 1952.

Piece goods, Woolen. A. D. Juilliard & Co., Inc. 564,996, Oct. 7; Serial No. 616,493, published July 15, 1952.

Rugs, Hand-hooked cotton and wool. Allied Stores Corporation. 564,978, Oct. 7; Serial No. 614,027, published July 15, 1952.

Unsupported vinyl sheeting. Toscony Fabrics, Inc. 564,980, Oct. 7; Serial No. 614,272, published July 15, 1952.

CLASS 43

Thread and continuous filament and staple fiber yarns. C. Klug. 565,153–4, Oct. 7; Serial Nos. 616,602–3.

CLASS 44

Absorbent articles of a constitution absorbable in body fluids. The Panray Corp. 564,923, Oct. 7; Serial No. 606,980, published July 8, 1952.

Bandages, Unmedicated. Harker Stagg Limited. 564,993, Oct. 7; Serial No. 615,833, published July 8, 1952.

Composition for use as a temporary reliner for denture plates. R. J. Forhan. 564,922, Oct. 7; Serial No. 606,767, published July 8, 1952.

Gas feeding masks. A. A. Ray. 564,973, Oct. 7; Serial No. 613,527, published July 1, 1952.

Sanitary belts. Beltx Corporation. 564,877, Oct. 7; Serial No. 588,475, published Dec. 23, 1951. (Consolidated certificate, Classes 39, 40, and 44.)

Thermometers, Clinical. Will Ross, Inc. 564,935, Oct. 7; Serial No. 609,104, published July 8, 1952.

CLASS 45

Beverage, Nonalcoholic, maltless. Real Juice Company, Inc. 564,843, Oct. 7; Serial No. 561,397, published June 3, 1952.

Beverages, Nonalcoholic, noncereal, maltless. Tom Tucker Beverage Company. 564,858, Oct. 7; Serial No. 576,780, published July 1, 1952.

Grape juice. Pastene & Co., Inc. 564,834, Oct. 7; Serial No. 554,406, published June 3, 1952.

Soda water, dry ginger ale, ginger beer, etc. Schweppes (Colonial & Foreign) Limited. 565,019, Oct. 7; Serial No. 618,657, published June 3, 1952.

Soft drink, Maltless, and syrup and concentrates. Ginger Mint Julep Company. 564,830, Oct. 7; Serial No. 542,462, published June 24, 1952.

Soft drinks and syrups, Non-alcoholic maltless. Societa per Azioni, Strega Alberti Benevento (S. A. B.). 564,841, Oct. 7; Serial No. 561,270, published June 17, 1952.

Soft drinks, Maltless, and carbonated waters, and table water. Miscoe Spring Water Co., Inc. 565,038, Oct. 7; Serial No. 620,521, published July 8, 1952.

Soft drinks, Non-alcoholic maltless grape-flavored. Annie Oakley Enterprises. 564,969, Oct. 7; Serial No. 613,040, published July 1, 1952.

Vanilla and other flavor bases for use in the manufacture of maltless soft drinks. Dodge & Olcott, Inc. 564,970, Oct. 7; Serial No. 613,056, published June 10, 1952.

CLASS 46

All meat knackwurst and all beef knackwurst. Hygrade Food Products Corporation. 565,032, Oct. 7; Serial No. 619,942, published July 15, 1952.

Anchovy paste, apple sauce, artichoke bottoms, etc. Cresca Company, Inc. 564,902, Oct. 7; Serial No. 599,555, published June 17, 1952.

Candies. King Candy Company. 564,833, Oct. 7; Serial No. 522,148, published July 8, 1952.

Candies, Coffee flavored. Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken. 295,128, renewed June 21, 1952. O. G. Oct. 7.

Candies, Easter egg. The Shotwell Mfg. Co. 564,884, Oct. 7; Serial No. 592,343, published July 15, 1952.

Candy. Kahlua, Ltd. 564,932, Oct. 7; Serial No. 608,821, published June 17, 1952.

Candy, Licorice. Switzer Licorice Company. 564,912, Oct. 7; Serial No. 601,961, published July 8, 1952.

Canned fruits and vegetables; canned tomato juice. Haxton Foods, Inc. 565,024, Oct. 7; Serial No. 619,506, published July 15, 1952.

Canned fruits, jellies, jams, etc. Miller Food Products Company, Inc. 564,829, Oct. 7; Serial No. 541,868, published June 24, 1952.

Canned orange juice. Fioriorange Canneries, Inc. 299,191, renewed Nov. 22, 1952. O. G. Oct. 7.

Canned tomato paste. F. E. Booth Company, Inc. 564,999, Oct. 7; Serial No. 616,845, published June 17, 1952.

Canned tuna fish. Westgate-Sun Harbor Company. 565,056, Oct. 7; Serial No. 621,181, published July 8, 1952.

Chemicals, Aromatic. Magnus, Mabee & Reynard, Inc. 295,807, renewed July 12, 1952. O. G. Oct. 7.

Chocolate. Cuba Industrial y Comercial, S. A. 293,774, renewed May 3, 1952. O. G. Oct. 7.

Chocolate. Cuba Industrial y Comercial, S. A. 293,775, renewed May 3, 1952. O. G. Oct. 7.

Confections in the nature of cookies. Charlotte Charles, Inc. 564,929, Oct. 7; Serial No. 608,342, published June 24, 1952.

Dairy products. Henry Becker & Son, Inc. 564,953, Oct. 7; Serial No. 611,072, published June 10, 1952.

Feed for livestock, Complete. Pay Way Feed Mills, Inc. 565,102, Oct. 7; Serial No. 622,843, published July 15, 1952.

Feed, Poultry, livestock feed, pigeon feed, etc. Wirthmore Feed Co. 565,045, Oct. 7; Serial No. 620,796, published July 15, 1952.

Feeds, Vitaminized live stock. N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar." 565,002, Oct. 7; Serial No. 617,053, published June 17, 1952.

Fish. Paispearl Products, Inc. 565,107, Oct. 7; Serial No. 623,153, published July 15, 1952.

Flour, Wheat. The Mennel Milling Company. 564,885, Oct. 7; Serial No. 593,034, published Sept. 25, 1951.

Foods, Frozen. Home Town Foods. 564,892, Oct. 7; Serial No. 594,971, published July 15, 1952.

Foods, Frozen. Marksman Farms, Inc. 564,826, Oct. 7; Serial No. 536,826, published July 8, 1952.

Fruits, Fresh. G. F. Joseph. 565,122, Oct. 7; Serial No. 624,953, published July 15, 1952.

Groceries in cans and jars, frozen fresh food products, bottled goods, etc. S. S. Pierce Co. 564,824, Oct. 7; Serial No. 531,360, published July 5, 1949.

Guava juice and blended guava and lime juices, papayas, mangos, etc. The Guava Corporation. 565,068, Oct. 7; Serial No. 621,513, published July 15, 1952.

Ham, Tinned, tinned salami, tinned bacon, etc. Hartog's Vleeschmaatschappij Naamlooze Vennootschap. 565,062, Oct. 7; Serial No. 621,248, published July 15, 1952.

Hams and bacon. M. H. Greenebaum, Inc. 564,886, Oct. 7; Serial No. 593,223, published June 24, 1952.

Ice cream and frozen custard. Anarc, Incorporated. 565,144, Oct. 7; Serial No. 599,479.

Macaroni. Vimco Macaroni Products Company. 564,941, Oct. 7; Serial No. 609,425, published June 24, 1952.

Mixture of egg material and other substances suitable for use as an ingredient in making cakes and other food products. Standard Brands Incorporated. 299,078, renewed Nov. 22, 1952. O. G. Oct. 7.

Muffins and bread. S. B. Thomas, Inc. 565,109, Oct. 7; Serial No. 623,487, published June 24, 1952.

Oysters. J. & J. W. Elsworth Co. 296,600, renewed Aug. 16, 1952. O. G. Oct. 7.

Purees, Frozen fruit. E. R. Jagenburg, Inc. 564,887, Oct. 7; Serial No. 594,047, published July 8, 1952.

Rice. N. W. Hutchings, Sr., and N. W. Hutchings, Jr. 565,115, Oct. 7; Serial No. 623,707, published July 15, 1952.

Vegetables, Fresh. W. B. Grainger Packing Company. 298,795, renewed Nov. 8, 1952. renewed Nov. 8, 1952. O. G. Oct. 7.

Vegetables, Fresh. W. D. Loveless & Son. 564,985, Oct. 7; Serial No. 614,950, published July 15, 1952.

Vegetables, Fresh. F. Nishio. 565,149, Oct. 7; Serial No. 611,143.

CLASS 47

Wine, Port. Offley Forrester, Limitada. 564,864, Oct. 7; Serial No. 579,616, published June 10, 1952.

Wines. T. G. Bright & Co. Limited. 564,857, Oct. 7; Serial No. 576,622, published June 3, 1952.

Wines. Central Grape Products Co. 564,854, Oct. 7; Serial No. 575,738, published July 8, 1952.

Wines. Ellis Brothers, Inc. 564,850, Oct. 7; Serial No. 571,958, published June 10, 1952.

Wines. Standard Food Products Corp. 564,878, Oct. 7; Serial No. 588,533, published June 10, 1952.

Wines. Wine Growers Guild. 564,939, Oct. 7; Serial No. 609,326, published July 8, 1952.

CLASS 48

Beer. William Gretz Brewing Co. 564,848, Oct. 7; Serial No. 570,702, published June 24, 1952.

Beer. P. J. McGurk. 564,825, Oct. 7; Serial No. 534,411, published June 3, 1952.

Beer. J. Ruppert. 564,960, Oct. 7; Serial No. 611,860, published June 24, 1952.

Cereal flakes used for the manufacture of beer. J. R. Short Milling Company. 565,023, Oct. 7; Serial No. 619,264, published July 8, 1952.

CLASS 49

Liqueur. Mohawk Liqueur Corporation. 564,931, Oct. 7; Serial No. 608,509, published June 3, 1952.

Vodka. G. F. Heublein & Bro., Inc. 565,012, Oct. 7; Serial No. 618,038, published June 24, 1952.

Whiskey. The Foster Trading Corporation. 565,092, Oct. 7; Serial No. 622,387, published July 15, 1952.

Whisky, Scotch. Chisholm & Co. 565,025, Oct. 7; Serial No. 619,602, published June 24, 1952.

CLASS 50

Container closures. Crown Cork & Seal Company, Inc. 298,911, renewed Nov. 15, 1952. O. G. Oct. 7.

Imitation leather, impregnated fabrics resembling imitation leather, and tarpaulins. Färberei Schlieren A.-G. 564,982, Oct. 7; Serial No. 614,643, published July 15, 1952.

CLASS 51

Colognes. Lucien Lelong, Inc. 564,957, Oct. 7; Serial No. 611,287, published June 17, 1952.

Colognes, toilet water, perfume. Avon Products, Inc. 564,853, Oct. 7; Serial No. 575,618, published June 17, 1952.

Compound of glandular substances in combination with skin emollients used as a face cream. Louis Philippe, Inc. 296,971, renewed Aug. 30, 1952. O. G. Oct. 7.

Cosmetic. Bramhall Co., Inc. 564,868, Oct. 7; Serial No. 583,983, published June 17, 1952.

Cream used for cleansing the skin. Princess Pat, Ltd. 564,914, Oct. 7; Serial No. 603,163, published June 24, 1952.

Dental cream, Ammoniated. Coverley Laboratories, Inc. 565,017, Oct. 7; Serial No. 618,389, published July 8, 1952.

Dental cream, shampoo, blue, and starch finish. Jewel Tea Co., Inc. 564,836, Oct. 7; Serial No. 555,527, published Apr. 17, 1951.

Eye shadow preparation. Germaine Monteil Cosmetiques Corporation. 564,896, Oct. 7; Serial No. 596,911, published June 17, 1952.

Face cream. Dearborn Supply Company. 564,961, Oct. 7; Serial No. 611,945, published June 17, 1952.

Face creams. S. A. Lancome. 564,859, Oct. 7; Serial No. 577,273, published June 17, 1952.

Hair dressing. W. A. Richards. 564,947–8, Oct. 7; Serial Nos. 610,634–5, published June 17, 1952.

Lipstick. Lever Brothers Company. 564,976, Oct. 7; Serial No. 613,778, published July 8, 1952.

Lipstick, make-up preparations, and skin lotions. Campana Corporation. 565,031, Oct. 7; Serial No. 619,920, published July 8, 1952.

Lipstick, nail polish, and face, talcum, and dusting powders. Elizabeth Arden Sales Corporation. 564,933, Oct. 7; Serial No. 608,910, published June 17, 1952.

Lipsticks, rouge, face powder, etc. Michel Cosmetics, Inc. 564,904, Oct. 7; Serial No. 600,063, published June 17, 1952.

Lotion for the skin and hands, liquid astringent, etc. Campana Corporation. 565,006, Oct. 7; Serial No. 617,533, published July 1, 1952.

Lotion, Skin. J. Nathan. 299,041, renewed Nov. 22, 1952. O. G. Oct. 7.

Lotions, Hair. H. Goodman & Sons, Inc. 564,921, Oct. 7; Serial No. 606,469, published June 3, 1952.

Nail polish. Palico, Inc. 565,143, Oct. 7; Serial No. 599,338.

Nail polish, Liquid, liquid nail polish remover, cuticle remover, etc. L'Onglex Limited. 299,228, renewed Nov. 22, 1952. O. G. Oct. 7.

Perfume, eau de cologne, toilet water, etc. Jacques Dobais, Inc. 564,959, Oct. 7; Serial No. 611,775, published June 17, 1952.

Perfume, toilet water and cologne. Germaine Monteil Parfums Company. 564,925, Oct. 7; Serial No. 607,624, published June 17, 1952.

Perfumes. Jean Patou, Inc. 299,239, renewed Nov. 22, 1952. O. G. Oct. 7.

Perfumes, perfume extracts, toilet water, etc. Parfums Forvil & Dentifrices du Docteur Pierre Reunis, Societe, Anonyme. 564,952, Oct. 7; Serial No. 610,987, published June 24, 1952.

Permanent wave solution. Duart Manufacturing Co., Ltd. 564,946, Oct. 7; Serial No. 610,262, published July 8, 1952.

Pharmaceutical preparations. Thrifty Drug Company, Ltd. 292,272, renewed Mar. 8, 1952. O. G. Oct. 7.

Preparation for treating hair, etc. The Nestle-Lemur Company. 294,157, renewed May 17, 1952. O. G. Oct. 7.

Preparations for preparing and preserving dead bodies for burial. Dr. G. H. Michel & Company. 299,089, renewed Nov. 22, 1952. O. G. Oct. 7.

Talcum powder, shaving cream, personal deodorant, etc. The House of Stuart, Inc. 564,899, Oct. 7; Serial No. 598,185, published June 17, 1952.

Tooth powder, Ammoniated. Kathryn, Inc. 564,871, Oct. 7; Serial No. 584,769, published June 17, 1952.

CLASS 52

Cleaner, bowling alley. The Brunswick-Balke-Collender Company. 564,838, Oct. 7; Serial No. 558,856, published July 8, 1952.

Cleaning compound, Chemical. L. Sonneborn Sons, Inc. 564,995, Oct. 7; Serial No. 615,946, published July 1, 1952.

Cleanser. Swift & Company. 565,141, Oct. 7; Serial No. 595,626.

Preparation for removing ink, dirt and grease. Chalmers Chemical Company. 564,846, Oct. 7; Serial No. 564,034, published July 1, 1952.

Shampoo, Castile hair. The Charles Marchand Company. 564,918, Oct. 7; Serial No. 605,753, published July 1, 1952.

Soap. Richard Hudnut. 87,073, re-renewed June 25, 1952. O. G. Oct. 7.

Soap compound, Powdered. R. B. Martie, Inc. 297,206, renewed Sept. 6, 1952. O. G. Oct. 7.

Soap, Powdered, paste soap, and a powdered general cleaning compound. Beaver Chemical Works. 294,475, renewed May 31, 1952. O. G. Oct. 7.

Soap, Toilet. W. M. Curtis. 296,083, renewed July 19, 1952. O. G. Oct. 7.

Soap, Toilet, and shampoo. Girl Scouts of the United States of America. 564,950, Oct. 7; Serial No. 610,681, published July 1, 1952.

Soaps and detergents, Dry-cleaning. Tru-Sheen Corporation. 564,872, Oct. 7; Serial No. 585,351, published July 8, 1952.

Soaps and dishwashing detergents. Peck's Products Company. 564,937, Oct. 7; Serial No. 609,196, published Mar. 4, 1952.

CLASS 100

Consultation engineering services. Phillips Petroleum Company. 565,127, Oct. 7; Serial No. 571,742, published July 15, 1952.

CLASS 102

Insurance brokerage. Vendomatic. 565,129–31, Oct. 7; Serial Nos. 593,028–30, published July 15, 1952.

Stock and other market analyses and forecasts of price and market changes. R. G. Lester. 565,133, Oct. 7; Serial No. 615,607, published July 15, 1952.

CLASS 103

Applying a plastic facing to the walls of buildings. H. M. Dufford. 565,132, Oct. 7; Serial No. 600,578, published July 15, 1952.

Installation, maintenance and repair of automotive equipment. Checker Stores, Inc. 565,128, Oct. 7; Serial No. 582,674, published July 15, 1952.

Repair and servicing of automotive vehicles. Larson Buick Co., Inc. 565,156, Oct. 7; Serial No. 531,811.

CLASS 104

Broadcasting facsimile weather maps. W. G. H. Finch. 565,158, Oct. 7; Serial No. 571,799.

CLASS 105

Transportation of freight by motor van. Gulf-Canal Lines, Inc. 565,157, Oct. 7; Serial No. 555,941.

CLASS 106

Dyeing of woolen, cotton, rayon, and nylon piece goods. The Kenyon Piece Dyeworks, Inc. 565,159, Oct. 7; Serial No. 607,859.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF OCTOBER, 1952

NOTE.—**Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).**

Davis, Elwood T., Havertown, assignor to Leeds and Northrup Company, Philadelphia, Pa. Automatic control system using nonlinear responsive elements. Re. 23,561, Oct. 7.

Leeds and Northrup Company, assignee: *See*—
Davis, Elwood T.

Randol, Glenn T., Mountain Lake Park, Md. Automotive power drive control system and mechanism. Re. 23,562, Oct. 7.

LIST OF DESIGN PATENTEES

Archer Plastics, Inc., assignee: *See*—
Genin, Robert I., and Stahl.

Ballew, Lenna D., Chicago, Ill. Doll. 167,877, Oct. 7.

Bessolo, Joseph C., Glendale, Calif. License plate holder. 167,878, Oct. 7.

Buchanan, Barney L., Hayward, Calif. Rack for pot holders. 167,879, Oct. 7.

Chicago Electric Manufacturing Company, assignee: *See*—
Pulliam, Dudley C.

Dreitzer, Albert J., assignor to Pitman-Dreitzer & Co. Inc., New York, N. Y. Stacked snack jar or similar article. 167,880, Oct. 7.

Easterling China Company, assignee: *See*—
Wagner, Franz.

Edson, Bert, Pawtucket, R. I., assignor to North American Lace Co., Inc., Philadelphia, Pa. Lace or similar article. 167,881, Oct. 7.

Enchantress Foundations, Inc., assignee: *See*—
Spero, Alan C.

Farnsworth, Herbert, Norwalk, Conn., assignor to I. Zendman, Inc., New York, N. Y. Lace. 167,882, Oct. 7.

Freedman, Adele Q., New York, N. Y. Embossed plastic sheet or similar article. 167,883, Oct. 7.

Gaines, Harry B., assignor to Saginaw Furniture Shops, Inc., Chicago, Ill. Extension commode. 167,884, Oct. 7.

Gazan, George A., Jr., Ferndale, Mich. Automobile license plate holder. 167,885, Oct. 7.

Genhart, Gertrude B., Meadville, Pa. Pie crust crimper. 167,886, Oct. 7.

Genin, Robert I., Hollis, and G. E. Stahl, Rye, assignors to Archer Plastics, Inc., Astoria, N. Y. Toy automobile. 167,887, Oct. 7.

Genin, Robert I., Hollis, and G. E. Stahl, Rye, assignors to Archer Plastics, Inc., Astoria, N. Y. Toy automobile. 167,888, Oct. 7.

Genin, Robert I., Hollis, and G. E. Stahl, Rye, assignors to Archer Plastics, Inc., Astoria, N. Y. Toy automobile. 167,889, Oct. 7.

Hallward, Michael, Swampscott, assignor to Stylon Corporation, Milford, Mass. Tissue holder. 167,890, Oct. 7.

Hallward, Michael, Swampscott, assignor to Stylon Corporation, Milford, Mass. Toothbrush holder. 167,891, Oct. 7.

Hallward, Michael, Swampscott, assignor to Stylon Corporation, Milford, Mass. Towel bar. 167,892, Oct. 7.

Hallward, Michael, Swampscott, assignor to Stylon Corporation, Milford, Mass. Tumbler holder. 167,893, Oct. 7.

Hallward, Michael, Swampscott, assignor to Stylon Corporation, Milford, Mass. Paper holder. 167,894, Oct. 7.

Hallward, Michael, Swampscott, assignor to Stylon Corporation, Milford, Mass. Soap holder. 167,895, Oct. 7.

Haug, Thaddeus L. E., Berkeley, Calif. Multiple pointer for pencils. 167,896, Oct. 7.

Hughes, James C., New City, N. Y. Combined switch plate and thermometer plate. 167,897, Oct. 7.

Jewell, Bernard W., assignor to The O. A. Sutton Corporation, Inc., Wichita, Kans. Room air conditioning unit. 167,898, Oct. 7.

Joannides, Nicholas, Ames, Iowa. Combination screwdriver, cap remover, envelope opener, and nail file. 167,899, Oct. 7.

Kasdam, Nathan, Plainfield, assignor to Majestic Metal Specialties, Inc., Moosup, Conn. Compact. 167,900, Oct. 7.

Knapp-Monarch Company, assignee: *See*—
Lautner, Max E.

Knee, Simon, Newark, N. J. Wallet or similar article. 167,901, Oct. 7.

Krami, Clemens, Iberia, Mo. Novelty box. 167,902, Oct. 7.

Lautner, Max E., assignor to Knapp-Monarch Company, St. Louis, Mo. Air fan heater. 167,903, Oct. 7.

Loewy, Raymond, New York, N. Y. Tie clasp. 167,904, Oct. 7.

Majestic Metal Specialties, Inc., assignee: *See*—
Kasdan, Nathan.

Muller, Georges H., Poissy, France. Automobile. 167,905, Oct. 7.

Muller, Georges H., Poissy, France. Automobile. 167,906, Oct. 7.

North American Lace Co., Inc., assignee: *See*—
Edson, Bert.

Packard Motor Car Company, assignee: *See*—
Phaneuf, Charles H.

Phaneuf, Charles H., Royal Oak, assignor to Packard Motor Car Company, Detroit, Mich. Vehicle trim louver or similar article. 167,907, Oct. 7.

Pitman-Dreitzer & Co. Inc., assignee: *See*—
Dreitzer, Albert J.

Pulliam, Dudley C., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Toaster. 167,908, Oct. 7.

Restagno, Vincent A., Watertown, Mass. Rotary brush to shine shoes or similar article. 167,909, Oct. 7.

Saginaw Furniture Shops, Inc., assignee: *See*—
Gaines, Harry B.

Smith, George W., Mohnton, Pa. Stocking. 167,910, Oct. 7.

Smith, James M., Denver, Colo. Knitting device or similar article. 167,911, Oct. 7.

Spero, Alan C., assignor to Enchantress Foundations, Inc., Great Neck, N. Y. Girdle. 167,912, Oct. 7.

Stahl, Gerald E.: *See*—
Genin, Robert I., and Stahl.

Stark, Charles, Kew Gardens Hills, N. Y. Shoulder bag. 167,913, Oct. 7.

Stylon Corporation, assignee: *See*—
Hallward, Michael.

Sutton, O. A., Corporation, Inc., The, assignee: *See*—
Jewell, Bernard W.

Taranton, Alman J., Riverside, Conn. Nursing bottle. 167,914, Oct. 7.

Vervaet, Arthur J., Paterson, N. J. Woven eccelesiastical banding. 167,915, Oct. 7.

Voight, August L., Berea, Ohio. Dispensing stopper for bottles. 167,916, Oct. 7.

Wagner, Franz, assignor to Easterling China Company, Chicago, Ill. Cup. 167,917, Oct. 7.

Weill, Milton, New York, N. Y. Jewelry box. 167,918, Oct. 7.

Wendt, Robert H., Evanston, Ill. Inflatable burro for water sport. 167,919, Oct. 7.

Zendman, I., Inc., assignee: *See*—
Farnsworth, Herbert.

Zuras, Constantine, Silver Spring, Md. Combined jar wrench, can punch, and bottle opener. 167,920, Oct. 7.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 7TH DAY OF OCTOBER, 1952

NOTE.—**Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).**

Abbott, Hazel B., Washington, D. C. Copyholder and bookholder and line follower. 2,612,866, Oct. 7.

Acme Steel Company, assignee: *See*—
MacChesney, Chester M.

Admiral Corporation, assignee: *See*—
Aylor, Elmo E.

Aerovox Corporation, assignee: *See*—
Kahn, Louis.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Knight, Hogan B.

Agruss, Meyer S.: *See*—
Goldsbarry, Albert W., and Agruss.

Aiello, Joseph, deceased, Pittsburgh, Pa.; Lena Titus, executrix of said J. Aiello. Watchmaker's roller table jewel pin setting jig. 2,612,801, Oct. 7.

Air Associates, Incorporated, assignee: *See*—
Howard, Bernard.

Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Klas, Harold W.

Aircraft Radio Corporation, assignee: *See*—
King, Paul B., Jr.

Akins, Stephen A., Kansas City, Mo. Nasal cleansing device. 2,612,894, Oct. 7.

Akron Spool & Manufacturing Co., assignee: *See*—
Hawley, John B.

Alden, William H., Jr., Bryn Athyn, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Material-controlled article transfer mechanism. 2,612,981, Oct. 7.

Alden, William H., Jr., Bryn Athyn, Pa., assignor to Allied Chemical and Dye Corporation, New York, N. Y. Shingle collecting and bundling machine. 2,612,983, Oct. 7.

Alden, William H., Jr., Bryn Athyn, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Shingle conveyer. 2,612,984, Oct. 7.

Alertronic Protective Corporation of America, The, assignee: *See*—
Bagno, Samuel M., and Westerman.

Alford, Joseph S., Nahant, Mass., assignor to General Electric Company. Flexible conduit joint. 2,613,087, Oct. 7.

Allied Chemical & Dye Corporation, assignee: *See*—
Alden, William H., Jr.
Joris, George G.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Nichols, Beverly R.

Allis, Louis, Company, The, assignee: *See*—
Robinson, Russell I.

Aluminum Company of America, assignee: *See*—
Cochran, William C.
Fischer, Edward F.

American Cystoscope Makers, Inc., assignee: *See*—
Galler, William.

American Engineering Company, assignee: *See*—
Midgette, Ernst L.

American Muffler Co., assignee: *See*—
Moore, Harvey G., and Karpoff.

American Pulley Company, The, assignee: *See*—
Christian, Joseph D.

American Steel Foundries, assignee: *See*—
Cottrell, Robert B.

American Sterilizer Company, assignee: *See*—
Jewell, Raymond L., and Dyckes.

Ames, H. Sterling, assignee: *See*—
Jackson, William J. R.

Amsel, Lawrence, Philadelphia, Pa. Educational toy. 2,612,708, Oct. 7.

Anderson, John, Berkeley, J. W. Mecorney, Albany, Calif., and G. E. Ham, Dayton, Ohio, assignors to Shell Development Company, San Francisco, Calif. Concentration of partially polymerized diallyl phthalate. 2,613,201, Oct. 7.

Anderson, Leslie D., Carlsbad, N. Mex., assignor to Potash Company of America. Recovering a desired soluble salt from a solid mixture containing same. 2,613,133, Oct. 7.

Andrews, Norman F., Ankeny, assignor to Deere Manufacturing Co., Dubuque, Iowa. Chain-tightening means with ratchet lock. 2,612,988, Oct. 7.

Arbib, Richard H., Grosse Point Woods, assignor to Houdaille-Hershey Corporation, Detroit, Mich. Bumper guard structure. 2,613,099, Oct. 7.

Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.

Armstrong, Charles E., Portland, Oreg. Thermostat. 2,613,298, Oct. 7.

Armstrong Cork Company, assignee: *See*—
Elliott, Charles G.
Feigley, David A., Jr.

Armstrong Rubber Company, The, assignee: *See*—
Buddenhagen, Frederick E.

Atkinson, Darrell R., Colorado Springs, Colo. Garbage can and support therefor. 2,613,010, Oct. 7.

Atkinson, Joseph, London, England. Cooled bladed rotor. 2,613,058, Oct. 7.

Atlantic Refining Company, The, assignee: *See*—
Bilhartz, Harrell L., and Dunlap.

Audette, Christopher H., Minneapolis, Minn. Alloying copper and iron. 2,613,148, Oct. 7.

Auten, Robert W.: *See*—
Hurwitz, Melvin D., and Auten.

Automatic Electric Laboratories, Inc., assignee: *See*—
Stehlik, Rudolph F.

Avary, Hugh, San Diego, Calif. Vertical opening Gothic arch tracing device. 2,612,688, Oct. 7.

Aylor, Elmo E., assignor to Admiral Corporation, Chicago, Ill. Blind fastener. 2,612,927, Oct. 7.

Azano, Anthony, New Haven, Conn. Protective signal device for automobiles. 2,613,258, Oct. 7.

Babb, Alfred T. S., Wembley, assignor to J. Lyons and Company Limited, London, England. Testing instrument. 2,613,249, Oct. 7.

Babbitt, Charles A., South Gate, assignor to Cal-Metal Corporation, Torrance, Calif. Pipe welding machine. 2,613,303, Oct. 7.

Babcock & Wilcox Company, The, assignee: *See*—
Fletcher, James.

Bach, Arthur J., Lumby, British Columbia, Canada. Portable sawmill with carriage traveling over husk. 2,612,913, Oct. 7.

Baggette, Thomas L., Leland, Miss., and A. R. Copithorne, Chelsea, Mass., assignors, by mesne assignments, to The Sperry Corporation, New York, N. Y. Apparatus for metering and distributing anhydrous ammonia in a liquid state. 2,612,760, Oct. 7.

Baggette, Thomas L., Leland, Miss., and A. R. Copithorne, Chelsea, Mass., assignors, by mesne assignments, to The Sperry Corporation, New York, N. Y. Releasable implement connection. 2,612,827, Oct. 7.

Bagno, Samuel M., Astoria, and S. L. Westerman, Great Neck, assignors to The Alertronic Protective Corporation of America, New York, N. Y. Vibration transducer assembly. 2,613,283, Oct. 7.

Bailey, James G., Vernonia, Oreg. Splitting machine for making shakes. 2,612,916, Oct. 7.

Bailey, William H., assignor to The British Iron and Steel Research Association, London, England. Breaker block for rolling mills. 2,612,798, Oct. 7.

Baker, Leonard, Hillsdale, N. J., assignor, by mesne assignments, to Filmsort, Inc., New York, N. Y. Card structure and making same. 2,612,711, Oct. 7.

Baker, Marlin S., and H. H. Zodtner, assignors to The Parker Pen Company, Janesville, Wis. Fountain Pen. 2,612,867, Oct. 7.

Bale, Andrew J., Jr., Berkeley, assignor to Pacific Bakery Machinery Co., Oakland, Calif. Dough ring cutting machine. 2,612,853, Oct. 7.

Ballantyne, David H., York, near Langho, near Blackburn, assignor to Rolls-Royce Limited, Derby, England. Control means for gas-turbine or jet engines which facilitates starting of the engine. 2,612,751, Oct. 7.

Banks, Agnes F., Los Angeles, Calif. Liquid dispensing brush and valve structure therefor. 2,612,649, Oct. 7.

Banks, Daniel B., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Vacuum pump suction control. 2,613,026, Oct. 7.

Banning, Thomas A., Jr., Chicago, Ill. Synchronizing means for multimotored airplanes. 2,612,956, Oct. 7.

Barbour, Fenner S.: *See*—
Worthen, Eugene P., and Barbour.

Barnes, Marion D., B. L. Embrey, and R. E. Koons, assignors to Lion Oil Company, El Dorado, Ark. Reducing the corrosion of ferrous metals by ammoniacal solution and corrosion inhibitor therefor. 2,613,131, Oct. 7.

Barnett, Gilbert J.: *See*—
Kirkman, William and Barnett.

Barrett, Charles D., Altoona, Pa. Bolster spring and snubber means for railway car trucks. 2,613,075, Oct. 7.

Barrett, William F., assignee: *See*—
Burke, George J.

Bassett, Cyrus W., Port-au-Peck, N. J., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass. Door operation control. 2,613,076, Oct. 7.

Bastian Bros. Co., assignee: *See*—
Bastian, Theron E., Hellaby, and Strollis.

Bastian, Theron E., Irondequoit, J. A. Hellaby, and E. A. Strollis, assignors to Bastian Bros. Co., Rochester, N. Y. Automatic button-pinning machine. 2,612,796, Oct. 7.

Battaglia, Alfred G.: *See*—
McGaffin, Ralph C., and Battaglia.

Bauer, Alfred, Le Locle, Switzerland. Equipment for striking type characters. 2,612,836, Oct. 7.

Baum, Joseph, New York, N. Y. Mounting means for tubular members. 2,613,051, Oct. 7.

Baumann, Fritz, Leverkusen-Bayerwerk, and B. Bienert, Leverkusen-Wiesdorf, assignors to Farbenfabriken Bayer, Leverkusen, Germany. Vat dyeing compositions, including a mixture of cobalt phthalocyanine dyes. 2,613,128, Oct. 7.

Baumgart, Elmer F., and G. E. Willard, Danville, Ill. Air compressor. 2,613,027, Oct. 7.

Beadle, Robert H., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Torsional vibration pickup. 2,612,773, Oct. 7.

Beatman, Dorothy, Chicago, Ill. Suction and flushing massage device. 2,612,892, Oct. 7.

Beckman, Arnold O., Altadena, and J. D. McCullough, Los Angeles, Calif., said McCullough assignor to said Beckman. Recording apparatus for recording gas concentrations in the atmosphere. 2,613,126, Oct. 7.

Beckman, Arnold O., Altadena, H. H. Herd, South Pasadena, and A. D. Robinson, Pasadena, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Dosimeter. 2,613,327, Oct. 7.

Belknap Mfg. Co., The, assignee: *See*—
Hutchison, Clifford N.

Bendix Aviation Corporation, assignee: *See*—
Bevins, James E.
Hood, E. Elliott.
Janowski, Stephen L.
Miller, Raymond J., Garmager, and Whelpley.
Teague, Walter D., Jr.
Thomas, Thomas H.

Beniers, Emil, assignor to Farbwerke Hoechst vormals Meister Lucius & Bruning, Frankfurt-on-the-Main-Hochst, Germany. Wool dyestuffs. 2,613,209, Oct. 7.

Berggren, Hal C.: *See*—
Jarrett, Jerry, and Berggren.

Berglund, Ralph M., South Bellingham, assignor, by mesne assignments, to Pacific Laboratories, Inc., Bellingham, Wash. Apparatus for boning and slitting fish. 2,612,652, Oct. 7.

Bery, Donald N., Denver, Colo. Boat carrier for automobiles. 2,613,020, Oct. 7.

Bethlehem Steel Company, assignee: *See*—
Worthen, Eugene P., and Barbour.

Bevins, James E., Ramsey, assignor to Bendix Aviation Corporation, Teterboro, N. J. Constant speed pump and motor hydraulic transmission. 2,612,753, Oct. 7.

Bickford, Frederick E., Rye, N. Y. Package forming machine. 2,612,822, Oct. 7.

Bielby, Willard M., Bay City, Mich. Swing. 2,612,935, Oct. 7.

Bienert, Berthold: *See*—
Baumann, Fritz, and Bienert.

Bierenfeld, Josef, assignor to Square D Company, Milwaukee, Wis. Interlocked electric switch. 2,612,789, Oct. 7.

Bilhartz, Harrell L., and H. F. Dunlap, Dallas, Tex., assignors to The Atlantic Refining Company, Philadephia, Pa. Measuring resistivity of earth samples. 2,613,250.

Billman, Beryl L., New Trenton, Ind., and P. Slack, Detroit, Mich. Propelling and steering mechanism. 2,612,859, Oct. 7.

Bilner, Karl P., Philadelphia, Pa., assignor to Vacuum Concrete, Inc. Expansible molding core. 2,612,673, Oct. 7.

Bivans, Ira: *See*—
Lisben, David M., and Bivans.

Blake Manufacturing Corporation, assignee: *See*—
Garland, Edward J.

Blanchard, Werner J., J. F. Haines, and T. B. Martin, Dayton, Ohio, and C. S. J. MacNeil, deceased, late of Dayton, Ohio, by E. M. MacNeil, administratrix, Dayton, Ohio, said W. J. Blanchard, J. F. Haines, T. B. Martin and C. S. J. MacNeil assignors to General Motors Corporation, Detroit, Mich. Propeller regulator assembly. 2,612,959, Oct. 7.

Block, H. L., Detroit, and L. G. Smith, Royal Oak, assignors to Ford Motor Company, Dearborn, Mich. Tractor speed transmission. 2,612,783, Oct. 7.

Blumer, Donald R., St. Paul, Minn., assignor to Phillips Petroleum Company. Producing unsaturated hydrocarbons. 2,613,233, Oct. 7.

Bodie, Alexander T., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind. Belt measuring device. 2,612,698, Oct. 7.

Boland, Gus L., Modesto, Calif. Reclining air cushion. 2,612,645, Oct. 7.

Boley, Leonard W., Brooklyn, N. Y. Inspection apparatus. 2,612,677, Oct. 7.

Boonton Molding Company, assignee: *See*—
Sayre, Gordon B.

Borg-Warner Corporation, assignee: *See*—
Youngren, Harold T., and Hettinger.

Bourland, Frances, Grand Prairie, Tex. Device for straightening and curling hair. 2,612,897, Oct. 7.

Bowes, Leslie H., Wadsworth, Ohio, assignor, by mesne assignments, to Morton Salt Company, Chicago, Ill. Carton packing apparatus. 2,613,021, Oct. 7.

Boyle, James M.: *See*—
Kirshenbaum, Abraham D., and Boyle.

Bracewell, John L., Shreveport, La. Form tie for wall structures. 2,612,674, Oct. 7.

Bradford, Shirrell F., Longmont, Colo. Shovel attachment for crawler tractors. 2,613,006, Oct. 7.

Braselton, Chester H., New York, N. Y. Cartridge lipstick. 2,612,990, Oct. 7.

Braselton, Chester H., New York, N. Y. Nonretractable lipstick. 2,612,991, Oct. 7.

Brekle, Oliver R., assignor to M and B Metal Products Company, Birmingham, Ala. Machine for straightening and cutting wire. 2,612,912, Oct. 7.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Hobbs, Dudley E.

British Iron and Steel Research Association, The, assignee: *See*—
Bailey, William H.

Britt, Edwin H., Raleigh, N. C., assignor, by mesne assignments, to Harris Foundry and Machine Company, Cordele, Ga. Bottle or container inspectiton apparatus. 2,612,815, Oct. 7.

Brock, Harold L.: *See*—
Spurlin, William G., and Brock.

Brooks, E. J., Company, assignee: *See*—
Brooks, Winfred M.

Brooks, Winfred M., West Orange, assignor to E. J. Brooks Company, Newark, N. J. Seal. 2,613,095, Oct. 7.

Brouillette, Irenee, Montreal, Quebec, Canada. Wall mounted electric outlet. 2,613,245, Oct. 7.

Brown, Joseph, Philadelphia, Pa. Velocity recorder. 2,613,125, Oct. 7.

Brown, William E., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Key operated electric switch. 2,613,288, Oct. 7.

Brueckner, Gilbert M., Milwaukee, Wis. Antiloss device. 2,612,669, Oct. 7.

Bruestle, Armin O., assignor to The Cincinnati Mine Machinery Company, Cincinnati, Ohio. Mining machine bit and block. 2,613,069, Oct. 7.

Bruining, Hajo, Floris de Boer, and P. Schagen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cathode-ray image converter tube. 2,613,330, Oct. 7.

Buck, Andrew P. W., St. Paul, assignor of one-half to W. A. Kostick, Minneapolis, Minn. Grain unloading machine. 2,613,003, Oct. 7.

Buddenhagen, Frederick E., Hamden, assignor to The Armstrong Rubber Company, West Haven, Conn. Tire casing with noiseless tread. 2,612,928, Oct. 7.

Bulk Barites, Inc., assignee: *See*—
Kane, Arthur R.

Bull, Eric W., Hounslow, assignor to Electric & Musical Industries Limited, Hayes, England. Television receiving apparatus. 2,613,333, Oct. 7.

Burch, Arthur R., Berkeley, Calif. Wheel and tire lifter. 2,613,084, Oct. 7.

Burch, Paul G., Sheffield, Ala. Fruit-coring utensil. 2,612,687, Oct. 7.

Burdick, John S., North Muskegon, assignor to The Shaw-Walker Company, Muskegon, Mich. Tilting chair back. 2,612,939, Oct. 7.

Burke, George J., Arlington, assignor of one-third to W. F. Barrett, Arlington County, Va. Pipe joint. 2,613,088, Oct. 7.

Burkey, Henry T., Los Angeles, Calif. Fish diverting apparatus. 2,612,861, Oct. 7.

Burrack, Harry B., Brooklyn, N. Y., assignor to Reynolds Metals Company, Richmond, Va. Cladding a copper-base metal to an aluminum core. 2,612,682, Oct. 7.

Burrows, Arthur T. C., assignor to Geo. W. King Limited, Hitchin, England. Conveyer system. 2,612,847, Oct. 7.

Busch, George B.: *See*—
Cooley, Austin G., and Busch.

Bush, Russell J.: *See*—
Heimgartner, Leo C., Bush, and Clingman.

Bushnell, Horace K., Jr., Glen Mills, Pa. Grapple. 2,613,103, Oct. 7.

Buttery, Kenneth T., assignor to Sutherland Paper Company, Kalamazoo, Mich. Collapsible cellular carton. 2,613,024, Oct. 7.

Byram, Frederick C., New Carlisle, and G. H. Zimmer, Jr., assignors to Robbins & Myers, Inc., Springfield, Ohio. Helical gear pump with nonrigid casing. 2,612,845, Oct. 7.

C. A. V. Limited, assignee: *See*—
Curzon, Thomas.

Caldwell, Carlyle G., Forest Hills, assignor to National Starch Products Inc., New York, N. Y. Free-flowing starch esters. 2,613,206, Oct. 7.

Cal-Metal Corporation, assignee: *See*—
Babbitt, Charles A.

Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Making magnetic recording heads. 2,612,681, Oct. 7.

Canale, Alfred J., Moorestown, and J. K. Kincaid, Mount Holly, N. J., assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of cyclooctatetraene. 2,613,231, Oct. 7.

Cantrell, Lonnie O., Whittier, Calif. Paper roll holder. 2,613,041, Oct. 7.

Caradine, James T., St. Louis, Mo. Visual record tallying device. 2,612,707, Oct. 7.

Carnahan, Orson A., Syracuse, N. Y. Backfire trap. 2,613,144, Oct. 7.

Carson, Howard, and C. L. Muzzey, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Speed control governing apparatus. 2,613,072, Oct. 7.

Carter Products, Inc., assignee: *See*—
Reich, Irving.

Case, J. I., Company, assignee: *See*—
Hansen, Charles W.
Heth, Sherman C.
Krause, Norman R.
Wiltsey, Howard E.

Casey, Edward J., Union, N. J. Forming and cutting tool for floriculture, horticulture, and turf culture. 2,612,725, Oct. 7.

Casey, Stephen M., Oakland, Calif. Window construction. 2,612,660, Oct. 7.

Casey, Walter L., Jr., Bonners Ferry, Idaho. Article grasping and handling device. 2,613,100, Oct. 7.

Castiglia, Biagis, assignor to Wheel Aligning Necessities, Inc., New York, N. Y. Turn gauge. 2,612,703, Oct. 7.

Castner, George P., Webster City, Iowa. Clothes-washing machine. 2,612,767, Oct. 7.

Castner, George P., Webster City, Iowa. Clothes-washing machine with diaphragm squeezer extractor. 2,612,768, Oct. 7.

Castner, George P., Webster City, Iowa. Clothes-washing machine. 2,612,769, Oct. 7.

Caswell, Arthur S.: *See*—
Wood, Joseph D., Caswell, and Goessel.

Catlin, Willard E., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Lubricating oil containing a copolymer of an ester of an unsaturated acid and a N-hydrocarbon amide of an unsaturated acid. 2,613,184, Oct. 7.

Celanese Corporation of America, assignee: *See*—
Ewing, Henry.

Chatfield, Herbert W., Croydon, assignor to Leon Frenkel Limited, London, England. Coating compositions containing aluminum alcoholates as driers. 2,613,162, Oct. 7.

Chelsea Products, Inc., assignee: *See*—
Lohman, William J., Jr.

Chemstrand Corporation, The, assignee: *See*—
Craig, Alfred B.
Ham, George E.

Christensen, William R., Newton Highlands, and C. E. Cross, East Sandwich, Mass. Closed goggles structure. 2,612,639, Oct. 7.

Christian, Joseph D., San Francisco, Calif., assignor to The American Pulley Company, Philadelphia, Pa. Combined shaft journal and drive unit. 2,612,788, Oct. 7.

Christianson, Carl-Otto, Goteborg, Sweden. Device for changing bobbins in spinning machines. 2,612,744, Oct. 7.

Christie, Chester D., South Euclid, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Engine governor control means. 2,612,965, Oct. 7.

Christie, Soren L., Los Angeles, Calif., assignor to McColpin-Christie Corp. Battery testing apparatus and method. 2,613,248, Oct. 7.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Miescher, Karl, and Urech.

Cinch Manufacturing Corporation, assignee: *See*—
Del Camp, Scipione M.

Cincinnati Mine Machinery Company, The, assignee: *See*—
Bruestle, Armin O.

Clack, Robert W., Lafayette, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Welding device. 2,613,305, Oct. 7.

Clark, Arthur R., assignee: *See*—
Clark, Margaret M.

Clark, Margaret M., assignor of one-half to A. R. Clark, Mountain Lakes, N. J. Boric acid esters of monohydroxycycloalkanes. 2,613,219, Oct. 7.

Clark, Ralph C., assignor to R. E. Clark, Willowbrook, Calif. Door lock. 2,612,771, Oct. 7.

Clark, Ray E., assignee: *See*—
Clark, Ralph C.

Cleveland, Charles H., Springfield, Mass., assignor to the United States of America as represented by the Secretary of War. Adjusting screw for firearms. 2,612,820, Oct. 7.

Clingman, Paul E.: *See*—
Helmgartner, Leo C., Bush, and Clingman.

Cobb, Clifton A., University City, assignor to Missouri Automatic Control Corporation, St. Louis, Mo. Flame sensitive fuel cutoff device. 2,612,946, Oct. 7.

Cochran, William C., Brussels, Belgium, assignor to Aluminum Company of America, Pittsburgh, Pa. Chemical brightening of aluminum. 2,613,141, Oct. 7.

Cohn, Aaron, Philadelphia, Pa. Attaching means. 2,612,813, Oct. 7.

Coleman, Joseph C., Kokomo, Ind. Fishing reel seat. 2,612,714, Oct. 7.

Colinet, Rene D., Philadelphia, Pa., assignor to La Soudure Electrique Autogene S. A., Brussels, Belgium. Welding rod or wire. 2,613,304, Oct. 7.

Combs, Dudley P.: *See*—
Smith, Thomas R., and Combs.

Compagnie des Freins et Signaux Westinghouse, assignee: *See*—
Dubar, Léon J. M. J., and Millet.

Compagnie Industrielle des Telephones, assignee: *See*—
Hurault, Jean L.

Cone, Charles N., Portland, Oreg., assignor to United States Plywood Corporation, New York, N. Y. Methyl cellulose-modified phenolic adhesive and plywood product. 2,613,167, Oct. 7.

Conn, C. G., Ltd., assignee: *See*—
Greenleaf, Leland B., and Swanson.
Kent, Earle L.

Consolidated Edison Company of New York, Inc., assignee: *See*—
Rifenburg, Ray C.

Consolidated Electric Company, assignee: *See*—
Ress, Thomas I.

Consolidated Engineering Corporation, assignee: *See*—
Perkins, George D.
Perkins, George D., and Robinson.
Robinson, Charles F.

Container Equipment Corporation, assignee: *See*—
Woelfer, Robert O.

Continental Supply Company, The, assignee: *See*—
Slonneger, John C.

Cooley, Austin G., New York, and G. B. Busch, Brooklyn, assignors to Times Facsimile Corporation, New York, N. Y. Facsimile recorder with styli actuated or propelled by a belt. 2,613,124, Oct. 7.

Copithorne, Alton R.: *See*—
Baggette, Thomas L., and Copithorne.

Corning Glass Works, assignee: *See*—
Nordberg, Martin E.

Costolow, John J.: *See*—
Johnstone, Leo H., Webber, and Costolow.

Cotton, Arthur F. R., Merrick, N. Y. Compass. 2,612,690, Oct. 7.

Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Brake beam stabilizer. 2,612,971, Oct. 7.

Cox Enterprises, Inc., assignee: *See*—
Cox, Tracy W.

Cox, Tracy W., assignor to Cox Enterprises, Inc., Salem, Oreg. Heater for internal-combustion engines. 2,612,885, Oct. 7.

Craig, Alfred B., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Fiber forming solutions. 2,613,194, Oct. 7.

Craig, Alfred B., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Fiber spinning solutions. 2,613,195, Oct. 7.

Craig, Burnie J., Los Angeles County, Calif. Dovetail construction. 2,613,097, Oct. 7.

Craig, Burnie M., Pasadena, Calif., assignor to M. J. McAneny, Buffalo, N. Y. Strap fastening tool. 2,612,804, Oct. 7.

Craig, W. E., and L. J. Exner, assignors to Rohm & Haas Company, Philadelphia, Pa. Benzyl-tert.-octylamine. 2,613,226, Oct. 7.

Cranor, Gifford B., assignor to Tomkins-Johnson Company, Jackson, Mich. Inclined underfeed riveting machine with magnetic anvil. 2,613,009, Oct. 7.

Crawford, Clarence L., Plum Township, Allegheny County, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Apparatus for producing synthesis gas. 2,613,145, Oct. 7.

Crawford, Herbert R.: *See*—
Malott, Ira M., and Crawford.

Crompton, Arthur, assignor of one-half to Robey & Co. Limited, Lincoln, England. Transfer of materials. 2,613,005, Oct. 7.

Crosland, Edward M., Culcheth, near Warrington, assignor to T. & T. Vicars Limited, Newton-le-Willows, England. Vertically swingable conveyer and chute. 2,612,985, Oct. 7.

Cross, Chester E.: *See*—
Christensen, William R., and Cross.

Croxall, Willard J.: *See*—
Lo, Chien-Pen S., and Croxall.
Van Hook, John O., and Croxall.

Croxall, Willard J., Bryn Athyn, Pa., and J. W. Dawson, Huntsville, Ala., assignors to Rohm & Haas Company, Philadelphia, Pa. Hydroxypentachlorodimethoxymethanotetrahydroindane. 2,613,229, Oct. 7.

Crucible Steel Company of America, assignee: *See*—
Lowe, Wallace K.

Cubitt, Rowland G., Great Bookham, England. Stove or furnace for heating water. 2,612,877, Oct. 7.

Cunningham, Marion M., Woonsocket, R. I., assignor to United States Rubber Company, New York, N. Y. Collapsible container. 2,612,924, Oct. 7.

Cunningham, Marion M., Woonsocket, R. I., assignor to United States Rubber Company, New York, N. Y. Making collapsible containers. 2,613,169, Oct. 7.

Curzon, Thomas, assignor to C. A. V. Limited, London, England. Actuating gas-discharge lamps. 2,613,337, Oct. 7.

Cutter Corporation, assignee: *See*—
Mansfield, Warren M.

Dafforn, Kenneth B., and R. I. Huffman, Dover, Ohio, assignors, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo. Steam iron. 2,612,709, Oct. 7.

Dal Favero, Alfeo: *See*—
Macaulay, John L., and Dal Favero.

Davis, Christopher A., Barnoldswick, assignor to Rolls-Royce Limited, Derby, England. Air compressor for use on aircraft. 2,613,628, Oct. 7.

Dawkins, Henry E., and S. T. Dodin, New York, N. Y. Portable back rest. 2,612,938, Oct. 7.

Dawson, John W.: *See*—
Croxall, Willard J., and Dawson.

De Boer, Floris: *See*—
Bruining, Hajo, de Boer, and Schagen.

De Bruyne, Emil A., Elmwood Park, assignor to Illinois Testing Laboratories, Inc., Chicago, Ill. Resistance thermometer. 2,612,780, Oct. 7.

De Carli, Earl V.: *See*—
Light, John S., and De Carli.

De Directie van de Staatsmijnen in Limburg, handelend voor en namens den Staat der Nederlanden, assignee: *See*—
Van Loon, Willem.

De Encico y Carnerero, Fernando, Madrid, Spain. Double siphon. 2,612,903, Oct. 7.

Deere & Company, assignee: *See*—
Oehler, Alvin W.

Deere Manufacturing Co., assignee: *See*—
Andrews, Norman F.
McClellan, Marcus E.

Deering Milliken Research Trust, assignee: *See*—
Hare, Donald G. C.
Strother, Fred P.

De Florez Company, Inc., The, assignee: *See*—
Smith, Edwin K., Jr.

De George, George: *See*—
Di Mauro, Venerando, J., and De George.

Deibel, Raymond: *See*—
Oishei, John R., and Deibel.

Deibel, Raymond, East Aurora, assignor to Trico Products Corporation, Buffalo, N. Y. Fluid motor. 2,612,874, Oct. 7.

Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Electric socket for miniature tubes. 2,613,244, Oct. 7.

Del Mar, Bruce E., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Cabin pressure control instrument. 2,612,828, Oct. 7.

Den Hertog, Martinus, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Telephone system. 2,613,277, Oct. 7.

Denny, Cartan H., assignor to Webster-Brinkley Co., Seattle, Wash. Variable-delivery pump. 2,612,839, Oct. 7.

De Pue, Carl L., executor: *See*—
Patten, Ray E.

Dice, William M., Jr., assignor, by mesne assignments, to The Ohio Rubber Company, Willoughby, Ohio. Splicing device. 2,613,042, Oct. 7.

Didier, Maurice, assignor to Societe Anonyme des Usines Chausson, Asnieres, France. Cooling radiator. 2,613,065, Oct. 7.

Di Giorgio, Philip A., and M. M. Safford, Schenectady, N. Y., assignors to General Electric Company. Elastic hydrocarbonsubstituted polysiloxanes and aliphatic azo compounds as catalysts. 2,613,199, Oct. 7.

Di Mauro, Joseph: *See*—
Di Mauro, Venerando and J., and De George.

Di Mauro, Venerando and J., and G. De George, Brooklyn, N. Y. Collapsible container. 2,612,926, Oct. 7.

Discount, Bernard, Jamaica, N. Y. Brake assembly for rotary card files. 2,612,970, Oct. 7.

Distillers Company Limited, The, assignee: *See*—
Young, Donald P.

Dodge Manufacturing Corporation, assignee: *See*—
Bodle, Alexander T.

Dodin, Sheldon T.: *See*—
Dawkins, Henry E., and Dodin.

Doehler-Jarvis Corporation, assignee: *See*—
McGarigal, John J.

Doeskin Products, Inc., assignee: *See*—
Tinkham, Thornton W.

Doolittle, Howard D., Stamford, assignor to Machlett Laboratories, Incorporated, Springdale, Conn. Gas filled thyratron. 2,613,336, Oct. 7.

Dorand, René, Versailles, France. Spring-biased autogyro rotor blade. 2,612,963, Oct. 7.

Dorrington, Neill E., J. A. Dyker, and W. R. Peterson, Oswego, assignors to St. Regis Paper Company, New York, N. Y. Bag filling machine. 2,613,053, Oct. 7.

Douglas Aircraft Company, Inc., assignee: *See*—
Del Mar, Bruce E.
Weise, Carl A.

Dow Chemical Company, The, assignee: *See*—
Ruh, Robert P.

Dow, Edward P., Manitowoc, Wis. Kicking animal target. 2,613,080, Oct. 7.

Dow, Robert E., Longmeadow, Mass. Taper turning attachment for turret lathes. 2,612,680, Oct. 7.

Doyle, Philip C., Rocky River, Ohio, and K. H. Rudd, Mount Lebanon, Pa., assignors to The Standard Oil Company, Cleveland, Ohio. Phonograph record. 2,613,152, Oct. 7.

Dreier, Ray C., assignor to Vaughan Mfg. Co., Chicago, Ill. Fulcrum type bottle cap lifter. 2,612,800, Oct. 7.

Drillick, Jacob H., Brooklyn, N. Y. Tape printer. 2,613,262, Oct. 7.

Dubar, Léon J. M. J., Paris, and R. P. Millet, Pavillons-sous-Bois, assignors to Compagnie des Freins et Signaux Westinghouse, Paris, France. Manufacturing photoelectric cells. 2,613,301, Oct. 7.

Duboscland, Paul P. M., Topanga, Calif. Forming roll machine. 2,612,934, Oct. 7.

Dunlap, Henry F.: *See*—
Billhartz, Harrell L., and Dunlap.

Du Pont, E. I. de Nemours and Company, assignee: *See*—
Catlin, Willard E.
Glasser, Leo G.
Lewis, Thomas G.
McCormack, William B., and Stilmar.
Osdal, Le Verne K.
Paulshock, Marvin.

Dupuis, Conrad L., Eastview, Ontario, and A. Hastie, Carleton Place, Ontario, Canada. Socket casing and switch structure. 2,613, 292, Oct. 7.

Durkee, James D., Fairlington, Va. Printing telegraph system. 2,613,267, Oct. 7.

Dyckes, George J.: *See*—
Jewell, Raymond L., and Dyckes.

Dyker, John A.: *See*—
Dorrington, Neill E., Dyker and Peterson.

Eaker, Charles M., Afton, assignor to Monsanto Chemical Company, St. Louis, Mo. Manufacture of trichloroacetic acid and derivatives. 2,613,220, Oct. 7.

Eaton Manufacturing Company, assignee: *See*—
Christie, Chester D.
Reed, George R.

Ebert, John E., Woodside, assignor to Polytechnic Institute of Brooklyn, Brooklyn, N. Y. Resistance comparator. 2,613,251, Oct. 7.

Economy Fuse and Manufacturing Co., assignee: *See*—
Laing, Gordon F.

Egerer, William E., H. B. Medley and M. J. Kittler, Detroit, Mich., assignors to G. M. and E. Holley. Antipercolating device. 2,613,068, Oct. 7.

Electric & Musical Industries Limited, assignee: *See*—
Bull, Eric W.

Electronic Research and Manufacturing Corporation, The, assignee: *See*—
Lister, George H.
Panetta, Albert R.

Elliott, Charles G., assignor to Armstrong Cork Company, Lancaster, Pa. Linoleum compositions. 2,613,163, Oct. 7.

Elmore, Kelly L., Sheffield, Ala., assignor to Tennessee Valley Authority. Oxidation of phosphorus with steam. 2,613,134, Oct. 7.

Embrey, Boyd L.: *See*—
Barnes, Marion D., Embrey, and Koons.

Embshoff, George F., Hamilton County, and G. Sperti, assignors to The Institutum Divi Thomae Foundation, Cincinnati, Ohio. Lamp. 2,613,328, Oct. 7.

Emhart Manufacturing Company, assignee: *See*—
Light, John S., and De Carli.

Engelmann, Otto R., Chicago, Ill. Optical instrument. 2,612,893, Oct. 7.

Eppley Laboratory, Inc., The, assignee: *See*—
Eppley, Marion.

Eppley, Marion, Portsmouth, assignor to The Eppley Laboratory, Inc., Newport, R. I. Plug or septum for electrolytic cells. 2,613,234, Oct. 7.

Erie Resistor Corporation, assignee: *See*—
Heibel, Jerome D.

Esval, Orland E., Huntington, N. Y., assignor to The Sperry Corporation. Blind landing indicator and controller for aircraft. 2,613,030, Oct. 7.

Evans, Howard J., Export, assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Thermoresponsive coupling for differential pressure registering mechanism. 2,612,781, Oct. 7.

Ewing, Henry, Spondon, near Derby, England, assignor to Celanese Corporation of America. Device for perforating elastic sheet material. 2,612,950, Oct. 7.

Exner, Lawrence J.: *See*—
Craig, W. E., and Exner.

Fahringer, Victor T., Clarksville, Va., assignor to Robbins Mills, Inc., New York, N. Y. Roll-off apparatus for textile fabrics. 2,612,770, Oct. 7.

Fairbanks, Morse & Co., assignee: *See*—
Beadle, Robert H.
Schowalter, Clarence H.

Falk Corporation, The, assignee: *See*—
Schmitter, Walter P.
Wiken, Ralph.

Farbenfabriken Bayer, assignee: *See*—
Baumann, Fritz and Bienert.

Farbwerke Hoechst vormals Meister Lucius & Bruning, assignee: *See*—
Beniers, Emil.

Farnsworth Research Corporation, assignee: *See*—
Fromm, Kenneth N.

Farrel-Birmingham Company, Incorporated, assignee: *See*—
Tippet, Philip V.

Felgley, David A., Jr., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Preparation of sheet materials containing fibers, cork particles, and a rubberlike binder. 2,613,190, Oct. 7.

Fetterly, Lloyd C., Seattle, Wash., assignor to Shell Development Company, San Francisco, Calif. Crystalline complexes of urea and cyclic oxygen containing compounds. 2,613,204, Oct. 7.

Filmsort, Inc., assignee: *See*—
Baker, Leonard.

Fischer, Edward F., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Surface treatment of magnesium and magnesium alloy articles. 2,613,165, Oct. 7.

Fish Engineering Corporation, assignee: *See*—
Hutchinson, Arthur J. L.

Fisher, Berne N., New York, N. Y., assignor to General Instrument Corporation, Elizabeth, N. J. Record changer phonograph. 2,613,081, Oct. 7.

Fisk, John D., assignee: *See*—
Wilson, Arthur O.

Fitzgerald, Reginald P., assignor to Pneumatic Drop Hammer Company, Braintree, Mass. Pneumatic drop hammer. 2,612,868, Oct. 7.

Fletcher, James, Akron, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Atomizer. 2,613,112, Oct. 7.

Ford Motor Company, assignee: *See*—
Block, Harold L., and Smith.
Joyce, Harold V.
Pleasance, Edwin.
Scott, Edwin D.
Skay, Frank.
Spurlin, William G., and Brock.
Swift, John F.

Foreshaw-Smith, Rosemary, London, England. Container for cleansing liquids. 2,613,011, Oct. 7.

Foresman, Harry B., Oklahoma City, Okla. Window sash balance. 2,613,093, Oct. 7.

Forgrove Machinery Company, Limited, The, assignee: *See*—
Russell, Alexander.

Forsyth, John S., Chicago, Ill., assignor to Wilson & Co., Inc. Processing meat products. 2,613,151, Oct. 7.

Fowler, Ralph L., Whittier, Calif. Ellipsograph. 2,612,691, Oct. 7.

Fox, Marvin C., assignor of one-half to W. O. Young, Seattle, Wash. Cigarette snuffer with sand renewing means. 2,612,896, Oct. 7.

Frankenhoff, Charles A., assignee: *See*—
Mahon, Stephen.

Frear, Oscar W. S., Williamsport, Pa. Safety ground clamp. 2,613,243, Oct. 7.

Fremlin, John H., and R. N. Hall, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Cavity resonator electronic oscillation generator. 2,613,335, Oct. 7.

Frenkel, Leon, Limited, assignee: *See*—
Chatfield, Herbert W.

Frere, Clarence, Bridgeport, Conn., assignor to General Electric Company. Contacting device for electric heating panels. 2,613,309, Oct. 7.

Freund, Frederick, New York, and I. Kreismann, Kew Gardens, N. Y., assignors, by mesne assignments, to said Kreismann. Spraying apparatus. 2,613,111, Oct. 7.

Frisk, Erik E., Duluth, Minn. Adjustable template. 2,612,700, Oct. 7.

Fromm, Kenneth N., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Balanced input high-frequency amplifier. 2,613,285, Oct. 7.

Fruehauf, Roy R.: *See*—
Steven, George, and Fruehauf.

Fuge, Karl W., assignor to James Manufacturing Company, Fort Atkinson, Wis. Three-hinged arch truss. 2,612,854, Oct. 7.

Fuller, Paul M., Buffalo, assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Remote-control selector device. 2,612,710, Oct. 7.

Funnell, Kenneth R., assignor to Funnells Inventions Limited, Blenheim, Marlborough, New Zealand. Stub axle or the like hinged assembly. 2,613,091, Oct. 7.

Funnells Inventions Limited, assignee: *See*—
Funnell, Kenneth R.

Gallagher, William P., River Forest, A. D. Stolle, and D. E. Schroeder, assignors to International Register Company, Chicago, Ill. Coin controlled meter and bank therefor. 2,612,975, Oct. 7.

Galler, William, Valley Stream, assignor to American Cystoscope Makers, Inc., New York, N. Y. X-ray contrast compositions. 2,613,172, Oct. 7.

Gardner-Board and Carton Co., The, assignee: *See*—
Ringler, William A.

Garland, Edward J., Worcester, assignor to Blake Manufacturing Corporation, Clinton, Mass. Combination filament crusher and circuit breaker for safety hand lamps. 2,613,314, Oct. 7.

Garmager, Curt H.: *See*—
Miller, Raymond J., Garmager, and Whelpley.

Geiger, Edward F., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Cross connecting board. 2,613,287, Oct. 7.

Geiser, Kenneth R., Schenectady, N. Y., assignor to General Electric Company. Optical system for oscillographs. 2,613,127, Oct. 7.

General Aniline & Film Corporation, assignee: *See*—
Unkauf, Henry C.

General Electric Company, assignee: *See*—
Alford, Joseph S.
Di Giorgio, Philip A., and Safford.
Frere, Clarence.
Geiser, Kenneth R.
Gurewitsch, Anatole M.
Lundy, Richard T.
McArthur, Elmer D.
Myers, Robert L.
Patten, Ray E.
Roedel, George F.
Waltersdorf, Felix S., Scott, and Grothouse.
Wieseman, Robert W.

General Instrument Corporation, assignee: *See*—
Fisher, Berne N.

Genral Motors Corporation, assignee: *See*—
Blanchard, Werner J., Haines, Martin, and MacNeil.
Brown, William E.
Carson, Howard, and Muzzey.
Helmgartner, Leo C., Bush, and Clingman.
Mathues, Thomas O.
Muzzey, Clifford L.
Richardson, David A.

General Railway Signal Company, assignee: *See*—
Hewes, Ralph W.

Genesee Research Corporation, assignee: *See*—
White, Chester M.

Gerrard, A. J., & Company, assignee: *See*—
Palmleaf, Herbert.

Gesner Machine Company, assignee: *See*—
Reynolds, Fred P.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Grise, Alfred L.

Gilbert, George J., Lakeville, Minn. Magnetized valve keeper tool. 2,612,799, Oct. 7.

Gilbert, Lloyd E.: *See*—
Harper, William W., and Gilbert.

Giudice, Sante, Owosso, Mich. Smoke-operated electrical alarm device. 2,613,259, Oct. 7.

Gladfelter, Willie I., and R. B. Huyett, assignors to Pangborn Corporation, Hagerstown, Md. Plate blasting machine. 2,612,731, Oct. 7.

Glasser, Leo G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Differential refractometer. 2,612,814, Oct. 7.

Glassheat, Inc., ass'gnee: *See*—
La Mirand, Walter.

Goddard, Esther C., executrix: *See*—
Goddard, Robert H.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Nozzle structure for effecting stratified flow of combustion gases. 2,612,746, Oct. 7.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Rotatable combustion chamber. 2,612,750, Oct. 7.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Feeding apparatus, including injectors adapted to supply combustion liquids under pressure to a combustion chamber. 2,612,752, Oct. 7.

Goessel, Elmer: *See*—
Wood, Joseph D., Caswell, and Goessel.

Goff, John W., assignor to Miller Manufacturing Company, Incorporated, St. Paul, Minn. Electrical heating device for poultry watering bowls. 2,613,311, Oct. 7.

Goldberg, Edwin A.: *See*—
Serrell, Robert, and Goldberg.

Goldsbarry, Albert W., Northbrook, and M. S. Agruss, assignors to The Pure Oil Company, Chicago, Ill. Falling film type of vacuum still with rotating partial condenser. 2,613,176, Oct. 7.

Gombosh, John, Pittsburgh, Pa. Ingot casting mold. 2,612,667, Oct. 7.

Goodrich, B. F., Company, The, assignee: *See*—
Keller, Russell J.
Kmentt, Waldemar D.
Krupp, Carroll P.
Sarbach, Donald V.

Goodyer, Harold J., assignor, by mesne assignments, to Hills-McCanna Company, Chicago, Ill. Device for introducing atomized liquid into gas under pressure. 2,613,067, Oct. 7.

Gorey, Robert J., Elmhurst, N. Y. Combination pitcher and container for paper milk containers. 2,612,765, Oct. 7.

Granger, Charles C., Henderson, N. C. Oil burner for tobacco curing barns. 2,612,945, Oct. 7.

Grant, Arthur W., Detroit, Mich. assignor to United States Rubber Company, New York, N. Y. Electroforming seamless tubes. 2,613,178, Oct. 7.

Green, Burton M., Ballston Spa, N. Y. Cargo handling apparatus for ships. 2,613,001, Oct. 7.

Green, Robert H., assignor, by mesne assignments, to The Otto Konigslow Mfg. Co., Cleveland, Ohio. Electrically heated paint removing tool. 2,613,310, Oct. 7.

Green, Walter H., Batavia, and A. A. Kalinske, Elmhurst, assignors to Infilco Incorporated, Chicago, Ill. Sewage treating process. 2,613,180, Oct. 7.

Green, Walter H., Geneva Township, Kane County, and A. A. Kalinske, Elmhurst, assignors to Infilco Incorporated, Chicago, Ill. Treatment of oily waste water. 2,613,181, Oct. 7.

Greenleaf, Leland B., Elkhart, and E. F. Swanson, Bristol, assignors to C. G. Conn., Ltd., Elkhart, Ind. Keyboard construction. 2,612,812, Oct. 7.

Greer, Edward M., West Hempstead, assignor to Greer Hydraulics, Inc., Brooklyn, N. Y. Pump testing apparatus. 2,612,777, Oct. 7.

Greer Hydraulics, Inc., assignee: *See*—
Greer, Edward M.

Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Priming means for centrifugal pumps. 2,612,844, Oct. 7.

Gronemeyer, George E., Wilmington, Del. Thermal insulation. 2,613,166, Oct. 7.

Grothouse, Frank T.: *See*—
Waltersdorf, Felix S., Scott, and Grothouse.

Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. In-line centrifugal pump with fabricated volutes. 2,612,843, Oct. 7.

Grunsky, Carl E., Garden City, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Mega voltmeter. 2,613,235, Oct. 7.

Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—
Goddard, Robert H.

Guild, Lloyd V., Pittsburgh, Pa. Gas manifold and valve for analyzing gas mixtures. 2,613,082, Oct. 7.

Gulf Research & Development Company, assignee: *See*—
Crawford, Clarence L.

Gulf States Paper Corporation, assignee: *See*—
Thielens, Wagner P.

Gurewitsch, Anatole M., Schenectady, N. Y., assignor to General Electric Company. Humidity indicator. 2,613,302, Oct. 7.

Gustavsson, Lars E. H., Karlskoga, Sweden. Device for measuring lengths. 2,612,699, Oct. 7.

Hagan, Robert E., Youngstown, Ohio. Scaffold connection. 2,613,114, Oct. 7.

Haines, John F.: *See*—
Blanchard, Werner J., Haines, Martin, and MacNeil.

Halden, Alfred A., assignor to National Starch Products Inc., New York, N. Y. Making a cold-mixing food starch powder. 2,613,150, Oct. 7.

Hall, Roger N.: *See*—
Fremlin, John H., and Hall.

Halliday, Harold F., assignee: *See*—
Jackson, William J. R.

Haltenberger, Jules, La Jolla, Calif. Motor vehicle fender and fender shield construction. 2,613,085, Oct. 7.

Halvorsen, Ralph H., assignor to Teletype Corporation, Chicago, Ill. Message numbering device. 2,613,265, Oct. 7.

Ham, George E.: *See*—
Anderson, John, Mecorney, and Ham.

Ham, George E., Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation. Solutions of acrylonitrile polymers reacted with a trialkyl amine. 2,613,196, Oct. 7.

Hamilton, Andrew C., Jr., Dallas, Tex. Sealing openings in well casings and earth formations. 2,612,954, Oct. 7.

Hannifin Corporation, assignee: *See*—
Peterson, Victor W., and Maha.

Hansel, Paul G., Long Branch, N. J. Navigation system, including acceleration integrating means. 2,613,071, Oct. 7.

Hansen, Charles W., assignor to J. I. Case Company, Racine, Wis. Safety shield. 2,612,763, Oct. 7.

Harbert, Carl M., New Castle, Pa. Earth drilling bit. 2,613,062, Oct. 7.

Hardypick Limited, assignee: *See*—
Hurd, Eric W.

Hare, Donald G. C., Clemson, S. C., assignor to Deering Milliken Research Trust, New York, N. Y. Cathode follower amplifier. 2,613,286, Oct. 7.

Hargreaves, Thomas F. S.: *See*—
Terry, Victor J., Hargreaves, and Prior.

Harper, William W., and L. E. Gilbert, Birmingham, Ala., assignors to Insurograph, Incorporated. Form issuing apparatus. 2,612,976, Oct. 7.

Harris, Barnie G.: *See*—
Richards, John W., and Harris.

Harris, Dwight E., Stamford, assignor to The Skinner Chuck Company, Norwalk, Conn. Valve construction. 2,612,907, Oct. 7.

Harris Foundry and Machine Company, assignee: *See*—
Britt, Edwin H.

Harrison, Glenn, Medford, Oreg. Display package and mound therefor. 2,612,989, Oct. 7.

Harsh, Joseph D., Adel, Iowa. Hot-air heating furnace. 2,612,890, Oct. 7.

Hart, Henry A., Bayside, assignor to Paper Novelty Manufacturing Company, Inc., Brooklyn, N. Y. Slip-on ornament. 2,613,140, Oct. 7.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Bruining, Hajo, de Boer, and Schagen.
Jaspers, Alphonsus M. J.
Jonker, Johan L. H., and van Overbeek.

Hartman, Carl H.: *See*—
Peterson, William R., and Hartman.

Hartnett, Paul L., Leominster, Mass. Swirling and mixing sipping straw. 2,613,107, Oct. 7.

Harvengt, Edmond, Moustier-sur-Sambre, Belgium, assignor to Link-Belt Company, Chicago, Ill. Jig for treating materials of different specific gravities. 2,612,997, Oct. 7.

Harvey, Merlin P.: *See*—
Ladd, Elbert C., and Harvey.

Hastie, Austin: *See*—
Dupuis, Conrad L., and Hastie.

Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire repair plug. 2,612,930, Oct. 7.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Paul E.

Hawley Brake Corporation, assignee: *See*—
Hawley, Jesse G.

Hawley, Jesse G., Painted Post, assignor to Hawley Brake Corporation, Bath, N. Y. Brake. 2,612,969, Oct. 7.

Hawley, John B., Sharon Center, Ohio, assignor to Akron Spool & Manufacturing Co. Spool with removable head. 2,613,049, Oct. 7.

Haynes, Harold E., Audubon, N. J., assignor to Radio Corporation of America. Image recording apparatus. 2,613,264, Oct. 7.

Hayward, John T., Tulsa, Okla. Submergible drilling barge. 2,612,759, Oct. 7.

Hazeltine Research, Inc., assignee: *See*—
Loughlin, Bernard D.
Richman, Donald.

Hedland, Harry A., Evanston, Ill. Fishing lure. 2,612,716, Oct. 7.

Heeley, Roland, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Bobbin winding machine. 2,613,038, Oct. 7.

Heibel, Jerome D., assignor to Erie Resistor Corporation, Erie, Pa. Electric circuit and component. 2,613,252, Oct. 7.

Helmgartner, Leo C., R. J. Bush, and P. E. Clingman, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Sealing strip. 2,612,972, Oct. 7.

Heinrich, Robert O., Racine, Wis. Locking plate adjusting means for vise beams. 2,612,805, Oct. 7.

Hellaby, John A.: *See*—
Basitan, Theron E., Hellaby, and Strollis.

Hellwig, Hans-Joachim, assignor to Unterharzer Berg- und Huttenwerke G. m. b. H., Oker/Harz, Germany. Furnace for the recovery of metal oxides. 2,613,137, Oct. 7.

Herd, Harold H.: *See*—
Beckman, Arnold O., Herd, and Robinson.

Herold, Charles A., and B. Lee, New York, assignors to Paper Novelty Manufacturing Company, Inc., Brooklyn, N. Y. Convoluted ornament. 2,613,139, Oct. 7.

Herter's, Inc., assignee: *See*—
Nicolin, Robert J.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Determining proportions in compositions of substances. 2,613,325, Oct. 7.

Herzog, Gerhard, Houston, Tex., assignor to The Texas Company, New York, N. Y. Determining proportions in compositions of substances. 2,613,326, Oct. 7.

Heth, Sherman C., assignor to J. I. Case Company, Racine, Wis. Grain combine. 2,612,742, Oct. 7.

Hettinger, Sidney V., Jr.: *See*—
Youngren Harold T. and Hettinger.

Hewes, Ralph W., assignor to General Railway Signal Company, Rochester, N. Y. Altimeter switch. 2,613,329, Oct. 7.

Heyman, Moses D., Woodmere, N. Y. Mica splitting apparatus. 2,612,889, Oct. 7.

Hibbard, Roger W., Quincy, assignor of thirty-five per cent to E. Tellbuescher, Quincy, and forty per cent to E. Siegfried, Carthage, Ill. Rotary internal-combustion engine. 2,612,879, Oct. 7.

Hickling, Frederick O., West Bridgford, Nottingham, assignor to Ransome and Marles Bearing Company Limited, Nottingham, England. Grease shield for anti-friction bearings. 2,613,090, Oct. 7.

Hilburn, Earl D., Silver Spring, Md. Plural camera television transmitter with electronic wipeout control. 2,613,263, Oct. 7.

Hilker, Raymond C., Cincinnati, Ohio. Refrigerated case. 2,612,761, Oct. 7.

Hill, Max W., Somerville, N. J., assignor to Standard Oil Development Company. Product of reaction of phosphorus sulfide and hydrocarbon, with guanidine carbonate. 2,613,205, Oct. 7.

Hills-McCanna Company, assignee: *See*—
Goodyer, Harold J.

Hobbs, Dudley E., assignor to The Bristol Aeroplane Company Limited, Bristol, England. Chassis frame for road vehicles. 2,612,964, Oct. 7.

Holcomb, Harry E., Stratford, Conn., assignor to Johns-Manville Corporation, New York, N. Y. Apparatus for drawing filaments. 2,613,039, Oct. 7.

Holley, Earl, assignee: *See*—
Egerer, William E., Medley, and Kittler.
Orr, Andrew W., Jr.

Holley, George M., assignee: *See*—
Egerer, William E., Medley, and Kittler.
Orr, Andrew W., Jr.

Holton, Arthur B.: *See*—
Walton, William T., and Holton.

Homrighous, John H., Oak Park, Ill. Multiplex time division radiophone. 2,613,276, Oct. 7.

Hönel, Herbert, Hamburg-Wandsbek, Germany, and H. Manzano, Vienna, Austria. Resol-alkyd resin product. 2,613,198, Oct. 7.

Honig, Herbert, New York, N. Y. Polishing composition. 2,613,192, Oct. 7.

Hood, E. Elliott, Elmira, N. Y., assignor to Bendix Aviation Corporation. Vehicle wheel brake. 2,612,968, Oct. 7.

Houdaille-Hershey Corporation, assignee: *See*—
Arbib, Richard H.
Schatzman, George W.

Howard, Bernard, Ramsay, assignor to Air Associates, Incorporated, Teterboro, N. J. Preselector tuning mechanism. 2,613,321, Oct. 7.

Howe, Earl E., Chicago, Ill. Forming welding projections on nuts. 2,612,647, Oct. 7.

Howe Scale Company, The, assignee: *See*—
Singleton, Lester D.

Hubbard, Guy R., Groton, Conn. Liquid fuel measuring and delivery device. 2,612,778, Oct. 7.

Huffman, Russell I.: *See*—
Dafforn, Kenneth B., and Huffman.

Huffman, Thomas W., Odessa, Tex. Purging head for radiator core section. 2,613,064, Oct. 7.

Hughes, Walter J., assignor to Infilco Incorporated, Chicago, Ill. Rotary disk valve. 2,613,056, Oct. 7.

Hunt, Ralph R., Haddonfield, N. J. Ratchet wrench spinner. 2,612,807, Oct. 7.

Hurault, Jean L., assignor to Compagnie Industrielle des Telephones, Paris, France. Ringing and regulating device for carrier current transmission system. 2,613,279, Oct. 7.

Hurd, Eric W., assignor to Hardypick Limited, Sheffield, England. Machine for operating in rock, coal, and the like. 2,613,061, Oct. 7.

Hurwitz, Melvin D., Philadelphia, and R. W. Auten, Jenkintown, assignors to Rohm & Haas Company, Philadelphia, Pa. Methylene-bis-2-imidazolidones. 2,613,210, Oct. 7.

Hurwitz, Melvin D., Philadelphia, and R. W. Auten, Jenkintown, assignors to Rohm & Haas Company, Philadelphia, Pa. Imidazolidinethiones. 2,613,211, Oct. 7.

Hurwitz, Melvin D., Philadelphia, and R. W. Auten, Jenkintown, assignors to Rohm & Haas Company, Philadelphia, Pa. Imidazolidone derivatives. 2,613,212, Oct. 7.

Hutchinson, Arthur J. L., assignor to Fish Engineering Corporation, Houston, Tex. Selective separation of acidic gases. 2,613,132, Oct. 7.

Hutchison, Clifford N., Stratford, assignor to The Belknap Mfg. Co., Bridgeport, Conn. Making and assembling sand molds. 2,612,668, Oct. 7.

Huyett, Robert B.: *See*—
Gladfelter, Wiltie I., and Huyett.

I. T. E. Circuit Breaker Company, assignee: *See*—
Wood, Joseph D., Caswell, and Goessel.

Illinois Testing Laboratories, Inc., assignee: *See*—
De Bruyne, Emil A.

Imperial Chemical Industries Limited, assignee: *See*—
Lowe, Arthur J.

Infilco Incorporated, assignee: *See*—
Green, Walter H., and Kalinske.
Hughes, Walter J.

Inland Manufacturing Company, assignee: *See*—
Webb, Earle G.

Institutum Divi Thomae Foundation, The, assignee, *See*—
Embshoff, George F., and Sperti.

Insurograph, Incorporated, assignee: *See*—
Harper, William W., and Gilbert.

International Business Machines Corporation, assignee: *See*—
Geiger, Edward F.

International Minerals & Chemical Corporation, assignee: *See*—
Lawver, James E.

International Register Company, assignee: *See*—
Gallagher, William P., Stolle, and Schroeder.

International Standard Electric Corporation, assignee: *See*—
Den Hertog, Martinus.
Fremlin, John H., and Hall.
Kandolan, Armig G.
Roche, Alleman H., and Roe.
Terry, Victor J., Hargreaves, and Prior.
Wolfson, Henry, and Thomson.

Ipsen, Victor M., Temple City, Calif. Chicken coop. 2,612,862, Oct. 7.

Iron Fireman Manufacturing Company, assignee: *See*—
Wright, Richard C.

Isacks, Albert J.: *See*—
Owen, William L., and Isacks.

Ivers-Lee Company, assignee: *See*—
Salfisberg, Leroy L.

Jackson, William G., assignor to The Upjohn Company, Kalamazoo, Mich. Two-phase three-solvent concentration of antipernicious anemia factors. 2,613,171, Oct. 7.

Jackson, William J. R., assignor of fifty-one per cent to H. S. Ames, and ten per cent to H. F. Halliday, Toronto, Ontario, Canada. Attachment for projectors for projecting stereoscopic pictures. 2,612,818, Oct. 7.

Jacobsson, Wilgot J., Plainfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Fluid pressure regulator. 2,612,728, Oct. 7.

Jacoby, John W.: *See*—
Maier, August R., and Jacoby.

James Manufacturing Company, assignee: *See*—
Fuge, Karl W.

Janoski, Edward J., assignor to Sun Oil Company, Philadelphia, Pa. Removing organic fluorides from hydrocarbons. 2,613,232, Oct. 7.

Janowski, Stephen L., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,612,973, Oct. 7.

Jarrett, Jerry and H. C. Berggren, assignors to The National Dispenser Corp., San Francisco, Calif. Dispenser for viscous liquids and valve therefor. 2,613,016, Oct. 7.

Jaspers, Alphonsus M. J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Broad band-pass circuit arrangment. 2,613,268, Oct. 7.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.

Jenkins, Gothern M., Doniphan, Mo. Automatic fishing device. 2,612,713, Oct. 7.

Jenks, Albert S., Danbury, Conn. Resiliently expansive window closure. 2,612,947, Oct. 7.

Jewell, Raymond L., and G. J. Dyckes, assignors to American Sterilizer Company, Erie, Pa. Sterilizer. 2,613,130, Oct. 7.

Johns-Manville Corporation, assignee: *See*—
Holcomb, Harry E.
Stafford, William L.

Johnson, Edward R.: *See*—
Kahle, Walter R., and Johnson.

Johnson, John A.: *See*—
Walley, John, and Johnson.

Johnson, Quinton C., Torrance, Calif., assignor to North American Aviation, Inc. Gun mount. 2,612,819, Oct. 7.

Johnston, Earl W., Worcester, Mass., assignor to United States Steel Company. Final-shaping attachment for wire-drawing machines. 2,612,797, Oct. 7.

Johnstone, Leo H., L. A. Webber and J. J. Costolow, Borger, Tex., assignors to Phillips Petroleum Company. Inhibiting formation of self-propagating polymers during distillation by use of water-soluble nitrites. 2,613,175, Oct. 7.

Jones, Lewis, deceased late of Upwey, Weymouth, England, by W. T. Wilkinson, executor, Wimbledon, assignor to Vickers-Armstrongs Limited, London, England. Torpedo hull. 2,612,857, Oct. 7.

Jonker, Johan L. H., and A. J. W. M. van Overbeek, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Screen grid structure for electron discharge tubes. 2,613,331, Oct. 7.

Joris, George G., Convent, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Cumene oxidation. 2,613,227, Oct. 7.

Joyce, Harold V., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Vehicular heater. 2,612,829, Oct. 7.

Joyce, James J., Portmouth, N. H. Mail delivery signal for mailboxes. 2,613,031, Oct. 7.

Kaasa, Orin G., Highland, Ind., assignor to Sinclair Refining Company, New York, N. Y. Catalytic conversion of hydrocarbons and the stripping of the fouled catalyst particles with steam. 2,613,173, Oct. 7.

Kahle, Walter R., and E. R. Johnson, assignors to The Morris Machine Tool Company, Cincinnati, Ohio. Piston weighing and assorting machine. 2,612,995, Oct. 7.

Kahn, Louis, assignor to Aerovox Corporation, New Bedford, Mass. Control system. 2,613,255, Oct. 7.

Kalfaian, Meguer, Asbury Park, N. J. Speech wave analysis. 2,613,273, Oct. 7.

Kalinske, Anton A.: *See*—
Green, Walter H., and Kalinske.

Kandolan, Armig G., Glen Rock, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Antenna. 2,613,349, Oct. 7.

Kane, Arthur R., assignor to Bulk Barites, Inc., Corpus Christi, Tex. Apparatus for transporting and handling finely ground materials. 2,613,004, Oct. 7.

Kapsenberg, Cornelis, Middelburg, assignor to N. V. Koninklijke Maatschappij "De Schelde," Vlissingen, Netherlands. Propeller having adjustable blades. 2,612,961, Oct. 7.

Karpoff, Alex D., assignee: *See*—
Moore, Harvey G., and Karpoff.

Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Tumbler clothes drier. 2,612,705, Oct. 7.

Kaufmann, Henry, assignor to Star Fastener, Inc., New York, N. Y. Apparatus for manufacturing slide fasteners. 2,612,795, Oct. 7.

Keating, Leonard M., assignor to A. O. Smith Corporation, Milwaukee, Wis. Welded tank construction. 2,613,015, Oct. 7.

Keller, Russell J., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Expander for brakes and clutches. 2,612,909, Oct. 7.

Kellogg, Spencer, 2d, Glen Head, assignor to The Sperry Corporation, Great Neck, N. Y. Flight indicating system for dirigible craft. 2,613,350, Oct. 7.

Kellogg, Spencer, 2d, Glen Head, N. Y., assignor to The Sperry Corporation. Radio navigation system. 2,613,352, Oct. 7.

Kelso, Wilbur A., Cincinnati, Ohio. Antibacklash fishing device. 2,613,047, Oct. 7.

Kendrick, James R., Greenville, S. C. Air conditioning and speaker unit for automobiles. 2,612,830, Oct. 7.

Kent, Earle L., assignor to C. G. Conn Ltd., Elkhart, Ind. Combination setter for organs. 2,612,810, Oct. 7.

Kester, Dwayne A., Mansfield, Wash. Fishing reel. 2,613,045, Oct. 7.

Kiekhaefer, Elmer C., Cedarburg, Wis. Crankcase induction valve for two-cycle engines. 2,612,882, Oct. 7.

Kiekhaefer, Elmer C., Cedarburg, Wis. Mounting and control means magneto for engines. 2,612,883, Oct. 7.

Kincaid, John F.: *See*—
Canale, Alfred and Kincaid.

King, Geo. W., Limited, assignee: *See*—
Burrows, Arthur T. C.

King, Kenneth G., assignor to Westinghouse Brake and Signal Company Limited, London, England. Electric relay. 2,613,254, Oct. 7.

King, Laurence F.: *See*—
Sproule, Lorne W., Pattenden, and King.

King, Paul B., Jr., Mountain Lake, N. J., assignor to Aircraft Radio Corporation. Wave guide attenuator. 2,613,270, Oct. 7.

Kingsbury Machine Works, Inc., assignee: *See*—
Lakey, Arthur B.

Kirkman, William, and G. J. Barnett, Ottawa, Ill., assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Template cutting machine. 2,612,689, Oct. 7.

Kirshenbaum, Abraham D., Union, and J. M. Boyle, Bayonne, N. J., assignors to Standard Oil Development Company. Sulfurized additives for lubricating compositions. 2,613,183, Oct. 7.

Kittler, Milton J.: *See*—
Egerer, William E., Medley, and Kittler.

Kittleson, Allen R., Cranford, N. J., assignor to Standard Oil Development Company. Purification of tetrahydrophthalimides with alkaline earth metal hydroxides. 2,613,213, Oct. 7.

Klas, Harold W., Sylvania, Ohio, assignor to the United States of America as represented by the Secretary of the Air Force. Probe supporting apparatus for wind tunnels. 2,612,776, Oct. 7.

Kleeberg, Gunther K. E., Belfast, Maine. Spindle and handle connection. 2,613,098, Oct. 7.

Kliever, Waldo H., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electron beam deflection and rebalancing apparatus. 2,613,340, Oct. 7.

Kmentt, Waldemar D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for winding sheet material about cylindrical bodies. 2,613,043, Oct. 7.

Knapp-Monarch Company, assignee: *See*—
Dafforn, Kenneth B., and Huffman.

Knight, Hogan B., Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. Polymeric plasticizers. 2,613,157, Oct. 7.

Knipping, Rainer H., San Antonio, Tex. Propulsion wheel. 2,612,957, Oct. 7.

Kojis, John J., assignor to S & C Electric Company, Chicago, Ill. Auxiliary contact construction for load interrupter switches. 2,613,291, Oct. 7.

Konigslow, Otto, Mfg. Co., The, assignee: *See*—
Green, Robert H.

Koons, Russell E.: *See*—
Barnes, Marion D., Embrey, and Koons.

Kostick, Walter A., assignee: *See*—
Buck, Andrew P. W.

Krainz, Robert F., assignee: *See*—
Timpner, Henry.

Kraus, George F., Camden, N. J. Fluid dispenser. 2,613,108, Oct. 7.

Krause, Norman R., assignor to J. I. Case Company, Racine, Wis. Power actuated overload release clutch. 2,612,974, Oct. 7.

Kriesmann, Illo: *See*—
Freund, Frederick, and Kriesmann.

Kroemmelbein, Walter F., Jr., New Brunswick, N. J. Television photographic device. 2,612,824, Oct. 7.

Krommiller, Carl G., Edina, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,613,105, Oct. 7.

Krupp, Carroll P., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Flexible hose. 2,612,910, Oct. 7.

Kruze, Andrew A., Detroit, Mich. Fishing apparatus. 2,612,712, Oct. 7.

Kuehnel, Henry A., Santa Monica, Calif. Fish lure. 2,612,717, Oct. 7.

Kummeth, Frank J., Owatonna, Minn. Nesting box. 2,612,864, Oct. 7.

Kwikset Locks, Inc., assignee: *See*—
Schoepe, Adolf.

Labat, Lawrence M., New Orleans, La. Oyster chock. 2,612,653, Oct. 7.

Ladd, Elbert C., and M. P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Preparing polyhalogenoalkenyl compounds. 2,613,221, Oct. 7.

Ladisch, Rolf K., Drexel Hill, Pa. Filaments containing fillers. 2,612,679, Oct. 7.

Lagant, Silas P., Pocahontas, Ill. Ceiling washer. 2,612,648, Oct. 7.

Laing, Gordon F., Delavan, Wis., assignor to Economy Fuse and Manufacturing Co., Chicago, Ill. Lag fuse. 2,613,297, Oct. 7.

Lakey, Arthur B., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Thrust measuring device. 2,612,775, Oct. 7.

La Mirand, Walter, assignor to Glassbeat, Inc., Detroit, Mich. Vehicle engine heater. 2,613,307, Oct. 7.

La Mirand, Walter, assignor to Glassheat, Inc., Detroit, Mich. Radiant heater and tray. 2,613,308, Oct. 7.

Lane-Wells Company, assignee: *See*—
Morgan, Charles K., Meddick, and McKenna.

Lang, Gregor L., Suffield, Conn., assignor to The Sperry Corporation. Radio navigation device. 2,613,351, Oct. 7.

Lansaw, Howard B., Huntington, W. Va. Upholstered rocking armchair. 2,612,936, Oct. 7.

Lanvermeyer, Julius, Melle, Germany. Housing for antifriction bearings. 2,613,120, Oct. 7.

Lasley, Robert A., assignors, by mesne assignments, to L. G. Simmons, Chicago, Ill. Fuel injection system. 2,612,840, Oct. 7.

Lasley, Robert A., assignor, by mesne assignments, to L. G. Simmons, Chicago, Ill. Variable retraction discharge valve for fuel injection pumps. 2,612,841, Oct. 7.

La Soudure Electrique Autogene S. A., assignee: *See*—
Colinet, Rene D.

Lauterbach, Norman E., Newark, assignor to Ritter Company, Inc., Rochester, N. Y. Medical practice chair with adjustable leg and footrest supports. 2,612,940, Oct. 7.

Lawver, James E., Lakeland, Fla., assignor to International Minerals & Chemical Corporation. Beneficiation of nonmetallic minerals. 2,613,035, Oct. 7.

Lea, John L., Grenada, Calif. Gem vise. 2,612,735, Oct. 7.

Lee, Arthur L., Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer belt supporting mechanism. 2,613,117, Oct. 7.

Lee, Burt: *See*—
Herold, Charles A., and Lee.

Lee, Frederick W., Baltimore, Md. Geophysical prospecting. 2,613,247, Oct. 7.

Legg, Billie A., assignee: *See*—
Legg, Ollie F.

Legg, Ollie F., assignor of one-half to B. A. Legg, Grove, Okla. Animal trap. 2,612,719, Oct. 7.

Leonard, John T., Evanston, Ill. Measuring valve for centralized lubricating systems. 2,612,967, Oct. 7.

Less, Joseph W., Clinton, Iowa. Shirt collar. 2,612,644, Oct. 7.

Levesque, Simon J., St. Leonard, New Brunswick, Canada. Potato separator. 2,612,993, Oct. 7.

Lewis, Emanuel J., Chicago, Ill. Film holder. 2,613,040, Oct. 7.

Lewis, Paul M., Chicago, Ill., assignor to Peninsular Metal Products Corporation, Detroit, Mich. Helicopter rotor construction. 2,612,962, Oct. 7.

Lewis, Thomas G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lapping method and apparatus. 2,612,736, Oct. 7.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Kirkman, William, and Barnett.
Pearse, John P.

Light, John S., Granby, and E. V. De Carli, Ellington, Conn., assignors to Emhart Manufacturing Company. Molten glass level control apparatus. 2,613,002, Oct. 7.

Linforth, Paul S., assignee: *See*—
Wells, William S.

Link-Belt Company, assignee: *See*—
Harvengt, Edmond.

Link, Herbert W., assignee: *See*—
Weber, Milton N.

Lion Oil Company, assignee: *See*—
Barnes, Marion D., Embrey, and Koons.

L'sbin, David M., Sunbury, and I. Bivans, Northumberland, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Adjustable antenna. 2,613,319, Oct. 7.

Lister, George H., assignor to The Electronic Research and Manufacturing Corporation, Cleveland, Ohio. Electric control. 2,613,253, Oct. 7.

Llewellyn, Willis E., Compton, Calif. Automatic tree trimmer. 2,612,724, Oct. 7.

Lo, Chien-Pen, Philadelphia, Pa., E. Y. Shropshire, Moorestown, N. J., and W. J. Croxall, Bryn Athyn, assignors to Rohm & Haas Company, Philadelphia, Pa. 3-trichloromethylsulfenyl - 5 - aralkylidene - 2,4-thiazolidinediones. 2,613,207, Oct. 7.

Lohman, William J., Jr., Morristown, assignor to Chelsea Products, Inc., Irvington, N. J. Ventilating fan and mounting therefor. 2,612,831, Oct. 7.

Lomazzo, Edmund J., assignor to Sparks Machine Tool Corporation, Norwalk, Conn. Chip conveying means. 2,612,986, Oct. 7.

Lorea, John V., and T. F. O'Rourke, Providence, R. I. Cleaning of manufactured jewelry parts. 2,612,898, Oct. 7.

Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,612,937, Oct. 7.

Loughlin, Bernard D., Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Angular-velocity-modulation wave-signal translating system. 2,613,316, Oct. 7.

Lovell Manufacturing Company, assignee: *See*—
Kauffman, Walter L., II.

Lowe, Arthur J., West Kilbride, Scotland, assignor to Imperial Chemical Industries Limited. Unsheathed safety explosive composition. 2,613,146, Oct. 7.

Lowe, Wallace K., Syracuse, assignor to Crucible Steel Company of America, New York, N. Y. Coil grinding equipment. 2,612,730, Oct. 7.

Lundvall, John S., Park Ridge, assignor to Union Asbestos & Rubber Company, Chicago, Ill. Hatch construction for railway cars. 2,612,849, Oct. 7.

Lundy, Richard T., Schenectady, N. Y., assignor to General Electric Company. Dynamoelectric machine brush. 2,613,239, Oct. 7.

Lyon, George A., Detroit, Mich. Method of and apparatus for making plastic tubing. 2,612,656, Oct. 7.

Lyons, J., and Company Limited, assignee: *See*—
Babb, Alfred T. S.

M and B Metal Products Company, assignee: *See*—
Brekle, Oliver R.

M-M & M Engineering and Research Corporation, Inc., assignee: *See*—
Malouf, William M.

Macaulay, John L., and A. Dal Favero, Corte Madera, Calif. Copyholder. 2,612,865, Oct. 7.

MacChesney, Chester M., assignor to Acme Steel Company, Chicago, Ill. Method of and apparatus for binding boxes. 2,612,833, Oct. 7.

Machlett Laboratories, Incorporated, assignee: *See*—
Doolittle, Howard D.

Mackay, Eric G., Hawthorn, Victoria, Australia. Magneto ignition system for internal-combustion engines. 2,612,886, Oct. 7.

Mackay, Eric G., Hawthorn, Victoria, Australia. Ignition system for internal-combustion and like engines. 2,612,887, Oct. 7.

MacNeil, Charles S. J.: *See*—
Blanchard, Werner J., Haines, Martin, and MacNeil.

MacNeil, Elise M., administratrix: *See*—
Blanchard, Werner J., Haines, Martin, and MacNeil.

Magee, Richard B., Altoona, Pa. Surgical drainage collection belt. 2,612,895, Oct. 7.

Maha, Otto J.: *See*—
Peterson, Victor W., and Maha.

Mahon, Stephen, Fort Atkinson, Wis., assignors, by mesne assignments, to C. A. Frankenhoff, Scarsdale, N. Y. Fluid-actuated reciprocating shower. 2,612,876, Oct. 7.

Maier, August R., Dallas, Tex., assignor to United States Steel Company. Pump valve. 2,613,054, Oct. 7.

Maier, August R., and J. W. Jacoby, Oil City, Pa., assignors to United States Steel Company. Well drilling rig. 2,613,059, Oct. 7.

Maiman, Herbert A., Havertown, Pa. Hose coupling. 2,613,089, Oct. 7.

Mairs, Thomas, Tacoma, Wash. Marine engine water cooler. 2,612,858, Oct. 7.

Malott, Ira M., Louisville, Ky., and H. R. Crawford, Cincinnati, Ohio. Race track timing device. 2,612,948, Oct. 7.

Malouf, William M., Los Angeles, Calif., assignor to M-M & M Engineering and Research Corporation, Inc. Fuel treating device. 2,613,143, Oct. 7.

Mansfield, Warren M., Glendale, Calif., assignor, by mesne assignments, to Cutter Corporation. Hair trimming type razor. 2,612,684, Oct. 7.

Manzano, Henrich: *See*—
Hönel, Herbert, and Manzano.

Marek, Jan L., Margate, and L. Steinberg, Ramsgate, England. Screen printing machine for textiles. 2,612,835, Oct. 7.

Marks, Charles B.: *See*—
Tenney, William L., and Marks.

Marks, Frederick J., Barnsboro, N. J. Hydraulic brake fluid warning device. 2,613,293, Oct. 7.

Mars, Incorporated, assignee: *See*—
Morrison, Robert F.

Marshall, Donald E., Minneapolis, Minn., assignor to Micro Processing Equipment Inc., Des Plaines, Ill. Composite detergent bar. 2,613,185, Oct. 7.

Martin, John R., Houston, Tex. Tubing spider. 2,612,671, Oct. 7.

Martin, Thomas B.: *See*—
Blanchard, Werner J., Haines, Martin, and MacNeil.

Marvel Equipment Corporation, assignee: *See*—
Roethel, John H.

Marziani, Joseph, Philadelphia, Pa. Forming head for bread roll machines. 2,612,850, Oct. 7.

Massa, Frank, Cleveland Heights, Ohio. Underwater transducer. 2,613,261, Oct. 7.

Mathson, Leslie J., Franklin Township, Milwaukee County, assignor of one-half to Riteway Tool and Die Company, Milwaukee, Wis. Adjustment indicator for precision machine tools. 2,612,697, Oct. 7.

Mathues, Thomas O., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Method and apparatus for extruding rubber-like material. 2,612,655, Oct. 7.

Mattil, Karl F., assignor to Swift & Company, Chicago, Ill. Treatment of glyceride oils. 2,613,215, Oct. 7.

Mavity, Julian M., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Preparation of a supported H_3PO_4 catalyst. 2,613,187, Oct. 7.

Mavity, Julian M., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Preparation of a supported H_3PO_4 catalyst. 2,613,188, Oct. 7.

Maxon, Glenway, Jr., Milwaukee, Wis. Dump body construction. 2,613,106, Oct. 7.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.
Smith, Thomas R., and Combs.

McAneny, Michael J., assignee: *See*—
Craig, Burnie M.

McAneny, Michael J., Hillsboro, N. Mex. Strap fastening tool. 2,612,802, Oct. 7.

McAneny, Michael J., Hillsboro, N. Mex. Strap fastening tool. 2,613,803, Oct. 7.

McArthur, Elmer D., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 2,613,332, Oct. 7.

McBurney, Charles H., assignor to Rohm & Haas Company, Philadelphia, Pa. Diketone ion-exchange resins. 2,613,200, Oct. 7.

McClellan, Marcus E., Ottumwa, assignor to Deere Manufacturing Co., Dubuque, Iowa. Bale loader with wide pickup means. 2,612,979, Oct. 7.

McColpin-Christie Corp., assignee: *See*—
Christie, Soren L.

McCombie, Frederick W., London, assignor to Megator Pumps & Compressors Limited, Feltham, England. Venting and draining means for pumps. 2,612,846, Oct. 7.

McConnell, Robert A., Cambridge, Mass. Supersonic test device. 2,612,772, Oct. 7.

McCormack, William B., and F. B. Stilmar, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Mixture of phthalocyanine vat dyes and making the same. 2,613,129, Oct. 7.

McCullough, James D.: *See*—
Beckman, Arnold O., and McCullough.

McDaniel, William R., Englewood, Tenn. Machine for removing metallic elements from flexible strips. 2,612,949, Oct. 7.

McGaffin, Ralph C., Plainfield, N. J., and A. G. Battaglia, assignors to National Starch Products Inc., New York, N. Y. Thermoplastic adhesive compositions. 2,613,156, Oct. 7.

McGaffin, Ralph C., Plainfield, N. J., and A. G. Battaglia, assignors to National Starch Products Inc., New York, N. Y. Thermoplastic adhesives. 2,613,191, Oct. 7.

McGarigal, John J., Batavia, assignor to Doehler-Jarvis Corporation, New York, N. Y. Die casting apparatus. 2,612,666, Oct. 7.

McIntyre, John, Portobello, Midlothian, Scotland. Machine for grinding or refining paint, cellulose, chocolate, and similar substances. 2,613,037, Oct. 7.

McKay, Dwight L., Barnesville, Okla., assignor to Phillips Petroleum Company. Fractional crystallizer. 2,613,136, Oct. 7.

McKay, George F., Brownwood, Tex. Lawn trimmer. 2,612,741, Oct. 7.

McKelvey, James K., Massillon, Ohio. Fishing line oiling, greasing, and drying reel. 2,613,048, Oct. 7.

McKenna, John S.: *See*—
Morgan, Charles K., Meddick, and McKenna.

McNea, Albert T., Cleveland, Ohio. Float operated switch. 2,613,294, Oct. 7.

Mecorney, John W.: *See*—
Anderson, John, Mecorney, and Ham.

Meddick, Lorrain D.: *See*—
Morgan, Charles K., Meddick, and McKenna.

Medley, Harry B.: *See*—
Egerer, William E., Medley, and Kittler.

Megator Pumps & Compressors Limited, assignee: *See*—
McCombie, Frederick W.

Menlo Research Laboratory, assignee: *See*—
Weeks, Charles.

Merchant & Evans Company, assignee: *See*—
Newlin, John S.

Meyers, Fred N., Andover, assignor to The H. N. White Company, Cleveland, Ohio. Valve for wind instruments. 2,612,811, Oct. 7.

Micha, Louis, Rue Augustin Vento, Principality de Monaco. Cordless telephone switchboard with interlocks. 2,613,281, Oct. 7.

Michaux, William W., Jr., Richmond, Va. Automatic feeder and transfer mechanism for tobacco ordering machines. 2,612,982, Oct. 7.

Michigan Tool Company, assignee: *See*—
Razor, George C.

Micro Processing Equipment Inc., assignee: *See*—
Marshall, Donald E.

Midgette, Ernst L., assignor to American Engineering Company, Philadelphia, Pa. Pump. 2,612,837, Oct. 7.

Miescher, Karl, Riehen, and E. Urech, Binningen, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. α-Phenylamino-propionic acid amidine and its salts. 2,613,225, Oct. 7.

Milano, Peter J., Salt Lake City, Utah. Time and humidity controlled fluid dispensing system. 2,612,901, Oct. 7.

Miller, Albert A.: *See*—
Wilson, Andrew G., and Miller.

Miller, Henry F.: *See*—
Taylor, Marvel E., and Miller.

Miller Manufacturing Company, Incorporated, assignee: *See*—
Goff, John W.

Miller, Raymond J., C. H. Garmager, and G. E. Whelpley, assignors to Bendix Aviation Corporation, Detroit, Mich. Transmission. 2,612,791, Oct. 7.

Millet, Roger P.: *See*—
Dubar, Léon J. M. J., and Millet.

Minghetti, Paul, Elk Grove, Calif. Floating cooling device for bulk liquids. 2,612,762, Oct. 7.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Kliever, Waldo H.
Kronmiller, Carl G.
Roetter, Robert P.

Missouri Automatic Control Corporation, assignee: *See*—
Cobb, Clifton A.

Moludy, Rudolph J., Akron, Ohio. Dolly for transporting tripod cameras. 2,613,083, Oct. 7.

Monroe Calculating Machine Company, assignee: *See*—
Pfleger, Frederick W.

Monsanto Chemical Company, assignee: *See*—
Baker, Charles M.

Montgomery, Harold R., Niagara Falls, Ontario, Canada, assignor to Norton Company, Worcester, Mass. Mixed borides. 2,613,154, Oct. 7.

Moore, Dudley E., Kansas City, Mo. Towel or cloth holder. 2,613,000, Oct. 7.

Moore, Harvey G., Rochester, N. Y., assignor to A. D. Karpoff, Boston, Mass., doing business as American Muffler Co. Carburetor choke mechanism. 2,612,790, Oct. 7.

Morasco, Eugene, assignee: *See*—
Pattyn, Pierre P.

Morgan, Charles K., and L. D. Meddick, Los Angeles, and J. S. McKenna, Alhambra, assignors to Lane-Wells Company, Los Angeles, Calif. Packer. 2,612,953, Oct. 7.

Morgan, Paul E., Melrose, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Workpiece area measuring machine. 2,612,696, Oct. 7.

Morris Machine Tool Company, The, assignee: *See*—
Kahle, Walter R., and Johnson.

Morrison, Robert F., Oak Park, assignor to Mars, Incorporated, Chicago, Ill. Candy making equipment. 2,612,851, Oct. 7.

Morrison, Robert F., Oak Park, assignor to Mars, Incorporated, Chicago, Ill. Candy slicing equipment. 2,612,852, Oct. 7.

Morton Salt Company, assignee: *See*—
Bowes, Leslie H.

Moss, William N., Vancouver, British Columbia, Canada. Mortising attachment for drill presses. 2,612,915, Oct. 7.

Mozley, Robert F., Berkeley, Calif., assignor to The Sperry Corporation. Circuits for object locator apparatus. 2,613,317, Oct. 7.

Mulford, Stewart F., Van Nuys, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Compensated thermocouple. 2,612,779, Oct. 7.

Mulligan, James H., Jr.: *See*—
Snyder, Ellery P., and Mulligan.

Murphy, John F., Nashua, N. H. Soap container. 2,612,650, Oct. 7.

Muzzey, Clifford L.: *See*—
Carson, Howard, and Muzzey.

Muzzey, Clifford L., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Hydraulically operated propeller pitch control. 2,612,960, Oct. 7.

Myers, Robert L., Burnt Hills, N. Y., assignor to General Electric Company. Polymerizing tetrafluoroethylene. 2,613,203, Oct. 7.

N. V. Koninklijke Maatschappij "De Schelde," assignee: *See*—
Kapsenberg, Cornelis.

Nash-Kelvinator Corporation, assignee: *See*—
Semple, John A.

National Dispenser Corp., The, assignee: *See*—
Jarrett, Jerry, and Berggren.

National Packaging Machinery Repair Co., assignee: *See*—
Phillips, Alfred T.

National Pneumatic Co., Inc., assignee: *See*—
Bassett, Cyrus W.
Weigele, Albert E.

National Smelting Company Limited, The, assignee: *See*—
Woods, Stephen E.

National Starch Products Inc., assignee: *See*—
Caldwell, Carlyle G.
Halden, Alfred A.
McGaffin, Ralph C., and Battaglia.
White, Thomas A.

Naughton, Bartley J., Jr., Birmingham, assignor of one-half to S. F. Olesak, Detroit, Mich. Upholstering. 2,612,941, Oct. 7.

Neher, Harry T.: *See*—
Specht, Edward H., Neuman, and Neher.

Nelson, Adolph: *See*—
Watt, E. J., and Nelson.

Nelson, Walter H., Cadillac, Mich., assignor to the United States of America as represented by the United States Atomic Energy Commission. High-voltage regulator. 2,613,344, Oct. 7.

Neuman, Andrew: *See*—
Specht, Edward H., Neuman, and Neher.

New Dictatype Company, Incorporated, assignee: *See*—
Von Duyke, Harrison M.

Newell, Floyd B.: *See*—
Tate, Kenneth L., and Newell.

New Jersey Machine Corporation, assignee: *See*—
Von Hofe, George W.

Newlin, John S., Paoli, assignor to Merchant & Evans Company, Philadelphia, Pa. Finned tube construction. 2,613,066, Oct. 7.

Nichols, Beverly R., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fluid pressure control apparatus. 2,612,838, Oct. 7.

Nicol, William H., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Polyethylene air filter. 2,612,966, Oct. 7.

Nicolin, Robert J., assignor to Herter's, Inc., Waseca, Minn. Wind sounding device. 2,612,723, Oct. 7.

Niederl, J. B., & Associates, Inc., assignee: *See*—
Niederl, Joseph B.

Niederl, Joseph B., Brooklyn, assignor to J. B. Niederl & Associates, Inc., New York, N. Y. Limiting polymerization. 2,613,230, Oct. 7.

Nordberg, Martin E., assignor to Corning Glass Works, Corning, N. Y. Making ultraviolet-transmitting high-silica glasses. 2,612,726, Oct. 7.

Nordberg, Martin E., assignor to Corning Glass Works, Corning, N. Y. Making ultraviolet-transmitting high-silica glasses. 2,612,727, Oct. 7.

North American Aviation, Inc., assignee: *See*—
Johnson, Quinton C.

Northrop Aircraft, Inc., assignee: *See*—
Strayer, Chalmers A.

Norton Company, assignee: *See*—
Montgomery, Harold R.

Norton, James F.: *See*—
Snyder, Jacob R., and Norton.

Ober, Roy, assignor to Robbins & Myers, Inc., Springfield, Ohio. Plural voltage motor. 2,613,343, Oct. 7.

Ockert, Carl E., Chicago, Ill., assignor to Sun Oil Company, Philadelphia, Pa. Furfural recovery. 2,613,174, Oct. 7.

O'Connor, Arthur F., Chicago, Ill., assignor to Union Asbestos & Rubber Company. Door for refrigerator cars. 2,612,659, Oct. 7.

O'Connor, David E., Needham, Mass. Fiber spinning method and apparatus. 2,612,654, Oct. 7.

Oehler, Alvin W., assignor to Deere & Company, Moline, Ill. Material-handling mechanism. 2,612,980, Oct. 7.

Ohio Rubber Company, The, assignee: *See*—
Dice, William M., Jr.

Ohman, Carl L., Vancouver, British Columbia, Canada. Pliers. 2,612,806, Oct. 7.

Oishei, John R., Buffalo, and R. Deibel, East Aurora, assignors to Trico Products Corporation, Buffalo, N. Y. Motor. 2,613,121, Oct. 7.

Olesak, Stephen F., assignee: *See*—
Naughton, Bartley J., Jr.

Orlicki, Stanley E., Jr., Chicago, Ill. Tire inflating means. 2,612,931, Oct. 7.

O'Rourke, Thomas F.: *See*—
Lorea, John V., and O'Rourke.

Orr, Andrew W., Jr., Detroit, Mich., assignor to G. M. and E. Holley. Semiisochronous governor for gas turbines automatically modified by fuel pressure. 2,612,944, Oct. 7.

Osdal, Le Verne K., Upper Darby, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Sprayable polytetrafluoroethylene aqueous suspensoids containing an organic liquid. 2,613,193, Oct. 7.

O'Shei, William E., London, England. Piston packing. 2,612,875, Oct. 7.

Osterland, Edmund H., Parsippany, N. J. Voltage divider. 2,613,345, Oct. 7.

Otis, Charles F., Roslyn, and W. H. Starks, assignors to Philco Corporation, Philadelphia, Pa. Electrical system. 2,613,334, Oct. 7.

Ouellette, Clarence, Springfield, assignor to Wrap-King Corporation, West Springfield, Mass. Labeling apparatus. 2,613,008, Oct. 7.

Owen, William L., Baton Rouge, and A. J. Isacks, Houma, La. Producing a plant food and plant stimulant, and utilization thereof. 2,613,147, Oct. 7.

Pacific Bakery Machinery Co., assignee: *See*—
Bale, Andrew J., Jr.

Pacific Clay Products, assignee: *See*—
Simpson, Joseph A., and Sutherland.

Pacific Laboratories, Inc., assignee: *See*—
Berglund, Ralph M.

Paduart, Andre: *See*—
Wets, Carlos, and Paduart.

Paillard S. A., assignee: *See*—
Prezioso, Giuseppe.
Thévenaz, Jean.

Palevsky, Harry, Chicago, and R. K. Swank, Urbana, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission. Voltage measuring apparatus. 2,613,236, Oct. 7.

Palmer, Winslow, West Hempstead, N. Y., assignor to The Sperry Corporation. Radio navigation system for dirigible cratt. 2,613,339, Oct. 7.

Palmes, Edward D., New York, N. Y. Antifogging and antifrosting goggles. 2,612,640, Oct. 7.

Palmleaf, Herbert, assignor to A. J. Gerrard & Company, Chicago, Ill. Pneumatic press. 2,612,931, Oct. 7.

Panetta, Albert R., assignor to Electronic Research and Manufacturing Corporation, Cleveland, Ohio. System for using overtone activity of piezoelectric crystals. 2,613,320, Oct. 7.

Pangborn Corporation, assignee: *See*—
Gladfelter Wiltie I., and Huyett.

Paper Novelty Manufacturing Company, Inc., assignee: *See*—
Hart, Henry A.
Herold, Charles A., and Lee.

Parker Appliance Company, The, assignee: *See*—
Wolfram, John N.

Parker Pen Company, The, assignee: *See*—
Baker, Marlin S., and Zodtner.

Parsons, Walter W., Lakeville, Mich. Detachable light reflecting for vehicle bodies. 2,613,104, Oct. 7.

Patten, Ray E., deceased, by C. L. De Pue, executor, Westport, Conn., assignor to General Electric Company. Frozen food drawer for refrigerators. 2,613,123, Oct. 7.

Pattenden, Warren C.: *See*—
Sproule, Lorne W., Pattenden, and King.

Patterson, Ian L., Kuala Lumper, Selangor, Malaya. Ore jigger. 2,612,996, Oct. 7.

Pattyn, Pierre P., Detroit, Mich., assignor, by mesne assignments, to E. Morasco. Push-button multiple switch. 2,613,290, Oct. 7.

Patzak, Karel, Prague, Czechoslovakia. Portable filing, milling, and grinding machine. 2,612,784, Oct. 7.

Paul-Huhne, Henry, Great Missenden, England. Electric resistance apparatus. 2,613,300, Oct. 7.

Paulshock, Marvin, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making phosphoramides. 2,613,224, Oct. 7.

Pearce, Arthur W., Whittier, Calif. Chain saw gauge. 2,612,702, Oct. 7.

Pearse, John P., Swanton, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Glass setting device. 2,612,663, Oct. 7.

Pendleton, Pyam L., Cranston, R. I. Fluid processing apparatus. 2,612,860, Oct. 7.

Peninsular Metal Products Corporation, assignee: *See*—
Lewis, Paul M.

Perkins, George D., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Mass spectrometry. 2,613,323, Oct. 7.

Perkins, George D., and C. F. Robinson, assignors to Consolidated Engineering Corporation, Pasadena, Calif. Mass spectrometry. 2,613,324, Oct. 7.

Perry, Fernande, Leesburg, Fla. Garment closure. 2,612,643, Oct. 7.

Peterson, Victor W., and O. J. Maha, assignors to Hannifin Corporation, Chicago, Ill. Protecting hydraulic pressure responsive devices from the effects of fluid shock. 2,612,756, Oct. 7.

Peterson, William R.: *See*—
Dorrington, Neill E., Dyker, and Peterson.

Peterson, William R., Oswego, and C. H. Hartman, New Rochelle, assignors to St. Regis Paper Company, New York, N. Y. Apparatus for sealing valved bags. 2,613,022, Oct. 7.

Petnel, Joseph A., Troy, N. Y. Telephone dial. 2,613,280, Oct. 7.

Pfaff, William M., assignor to Standard Aluminum Products Company, Braddock, Pa. Window structure. 2,612,662, Oct. 7.

Pfleger, Frederick W., Paulinskill Lake, Newton, assignor to Monroe Calculating Machine Company, Orange, N. J. Register transfer mechanism. 2,613,033, Oct. 7.

Philco Corporation, assignee: *See*—
Otis, Charles F., and Starks.

Phillips, Alfred T., assignor to National Packaging Machinery Repair Co., Chicago, Ill. Dispensing device and valve assembly therefor. 2,613,017, Oct. 7.

Phillips, John L., Teague, Tex. Kink eliminator for handsaws. 2,612,919, Oct. 7.

Phillips Petroleum Company, assignee: *See*—
Blumer, Donald R.
Johnstone, Leo H., Webber, and Costolow.
McKay, Dwight L.

Physiological Chemicals Company, assignee: *See*—
Ruskin, Simon L.

Pickett, Charles F., Bel Air, and M. Rosenfeld, Aberdeen, Md. Cleaning composition. 2,613,186, Oct. 7.

Pines, Herman, assignor to Universal Oil Products Company, Chicago, Ill. Synthesis of chloromethylated haloalkyl thiophenes. 2,613,214, Oct. 7.

Pion, Sol H., Jamaica, N. Y. Brassière construction. 2,612,641, Oct. 7.

Pleasance, Edwin, Detroit, assignor to Ford Motor Company, Dearborn, Mich. Clamp. 2,612,794, Oct. 7.

Pneumatic Drop Hammer Company, assignee: *See*—
Fitzgerald, Reginald P.

Pollard, Willard L., Evanston, Ill. Bookholder. 2,612,721, Oct. 7.

Polytechnic Institute of Brooklyn, assignee: *See*—
Ebert, John E.

Potash Company of America, assignee: *See*—
Anderson, Leslie D.

Potvin, Claud L., Minneapolis, Minn. Corn and callus trimmer. 2,612,683, Oct. 7.

Poulsen, Poul M., Copenhagen, Denmark. Method and apparatus for making candles. 2,612,657, Oct. 7.

Prezioso, Giuseppe, Yverdon, assignor to Paillard S. A., Sainte-Croix (Vaud), Switzerland. Typewriter carriage control means support. 2,612,978, Oct. 7.

Prior, Hector T.: *See*—
Terry, Victor J., Hargreaves and Prior.

Pure Oil Company, The, assignee: *See*—
Goldsbarry, Albert W., and Agruss.

Purex Corporation, Ltd., assignee: *See*—
Stoneman, Alan C.

Radio Corporation of America, assignee: *See*—
Haynes, Harold E.
Serrell, Robert, and Goldberg.
Trevor, Bertram A.

Ransdall, Ralph A., San Francisco, Calif. Undercutting earth auger. 2,613,063, Oct. 7.

Ransome and Marles Bearing Company Limited, assignee: *See*—
Hickling, Frederick O.

Razor, George C., assignor to Michigan Tool Company, Detroit, Mich. Gear tooth lead testing device. 2,612,701, Oct. 7.

Reconstruction Finance Corporation, assignee: *See*—
Ward, Charles F.

Redding, Benjamin F., Monterey Park, Calif. Fishing reel. 2,613,046, Oct. 7.

Reed, George R., Grosse Pointe Park, Mich, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Clip clinching machine. 2,612,933, Oct. 7.

Reflectone Corporation, The, assignee: *See*—
Simjian, Luther G.

Reggio, Ferdinando C., Norwalk, Conn. Fuel injection pump. 2,612,884, Oct. 7.

Reich, Irving, Brooklyn, assignor to Carter Products, Inc., New York, N. Y. Filling pressuretight containers with a liquid product and a volatile propellant. 2,613,023, Oct. 7.

Renfro, Jenifer W., Cincinnati, Ohio. Embalmer's tissue separator. 2,612,678, Oct. 7.

Ress, Thomas I., Evanston, assignor to Consolidated Electric Company, Chicago, Ill. Margin guide for tele-autographic apparatus. 2,613,266, Oct. 7.

Reynolds, Fred P., assignor to Gesner Machine Company, Hamden, Conn. Safety device for woodworking machines. 2,612,914, Oct. 7.

Reynolds, Hylus G., Plaza, Wash. Cue holder. 2,613,079, Oct. 7.

Reynolds Metals Company, assignee: *See*—
Burrack, Harry B.
Totten, Arthur I.

Richards, John W., and B. G. Harris, Pampa, Tex. Drain valve. 2,612,904, Oct. 7.

Richardson, David A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Hydraulically operated engine-propeller control. 2,612,958, Oct. 7.

Richman, Donald, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Superregenerative system for receiving angular-velocity-modulated wave signals. 2,613,315, Oct. 7.

Rifenburg, Ray C., Brooklyn, assignor to Consolidated Edison Company of New York, Inc., New York, N. Y. Apparatus for forming and lining pipes. 2,612,672, Oct. 7.

Ringler, William A., Wayne, Pa., assignor to The Gardner Board and Carton Co. Package for frozen foods and the like. 2,613,025, Oct. 7.

Riteway Tool and Die Company, assignee: *See*—
Mathson, Leslie J.

Ritter Company, Inc., assignee: *See*—
Lauterbach, Norman E.
Ziegler, Eugene R.

Robbins Mills, Inc., assignee: *See*—
Fahringer, Victor T.

Robbins & Meyers, Inc., assignee: *See*—
Byram, Frederick C., and Zimmer.
Ober, Roy.

Roberson, Claude M., Shreveport, La. Pneumatically operated elevator bail. 2,613,102, Oct. 7.

Roberson, Claude M., Shreveport, La. Hook latch operating mechanism. 2,613,101, Oct. 7.

Robey & Co. Limited, assignee: *See*—
Crompton, Arthur.

Robins, Hyman, Brooklyn, N. Y. Combination garment and brassière. 2,612,642, Oct. 7.

Robinson, Alfred D.: *See*—
Beckman, Arnold O., Herd, and Robinson.

Robinson, Charles F.: *See*—
Perkins, George D., and Robinson.

Robinson, Charles F., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Device for holding mass spectrometer on a preset mass peak. 2,613,322, Oct. 7.

Robinson, James, London, England. Electric control system. 2,613,346, Oct. 7.

Robinson, Richard S., Gloucester, assignor, by mesne assignments, to Vibro Dynamic Engineering, Inc., Boston, Mass. Vibratory and rotary ball mill. 2,613,036, Oct. 7.

Robinson, Russell I., assignor to The Louis Allis Company, Milwaukee, Wis. Cooling heavy duty motors. 2,613,340, Oct. 7.

Roche, Alleman H., F. O. Roe, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Housing for apparatus installed in subaqueous cables. 2,613,284, Oct. 7.

Rockwell Manufacturing Company, assignee: *See*—
Evans, Howard J.

Roe, Frederick O.: *See*—
Roche, Alleman H., and Roe.

Roedel, George F., Schenectady, N. Y., assignor to General Electric Company. Polymerizing chlorotrifluoroethylene. 2,613,202, Oct. 7.

Roethel, John H., assignor to Marvel Equipment Corporation, Detroit, Mich. Deck lid hinge. 2,612,651, Oct. 7.

Roetter, Robert P., Gary, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pneumatic control apparatus. 2,612,870, Oct. 7.

Rohm & Haas Company, assignee: *See*—
Canale, Alfred and Kincaid.
Craig, W. E. and Exner.
Croxall, Willard J., and Dawson.
Hurwitz, Melvin D., and Auten.
Lo, Chien-Pen, Shropshire and Croxall.
McBurney, Charles H.
Specht, Edward H., Neuman, and Neher.

Rohm & Haas Company, assignee: *See*—
Van Hook, John O., and Croxall.

Roi, René C., assignor to Societe Civile d'Etudes pour la Fabrication de Produits Industriels Manufactures (S. E. P. I. M.), Paris, France. Rotary masher. 2,612,922, Oct. 7.

Roi, René C., assignor to Societe Civile d'Etudes pour la Fabrication de Produits Industriels Manufactures (S. E. P. I. M.), Paris, France. Household implement for comminuting foodstuff. 2,612,923, Oct. 7.

Rolls-Royce Limited, assignee: *See*—
Ballantyne, David H.
Davis, Christopher A.
Wilde, Geoffrey L.

Rosenfeld, Myer: *See*—
Pickett, Charles F., and Rosenfeld.

Ruckman, Ruben L., assignor to A. M. Stewart, Texas City, Tex. Level tube support. 2,612,704, Oct. 7.

Rudd, Kenneth H.: *See*—
Doyle, Philip C., and Rudd.

Ruh, Robert P., assignor to The Dow Chemical Company, Midland, Mich. Production of unsaturated fluorine-containing alicyclic ethers. 2,613,228, Oct. 7.

Ruskin, Simon L., New York, assignor to Physiological Chemicals Company, New Rochelle, N. Y. Calcium sulfanilamide preparations. 2,613,170, Oct. 7.

Russell, Alexander, assignor to The Forgrove Machinery Company Limited, Leeds, England. Wrapping machine. 2,612,740, Oct. 7.

Ryder, James C., Fairhaven, Mass., assignor to United Merchants and Manufacturers, Inc., Wilmington, Del. Electric motor control system. 2,613,338, Oct. 7.

S & C Electric Company, assignee: *See*—
Kojis, John J.

Safford, Moyer M.: *See*—
Di Giorgio, Philip A., and Safford.

Sailer, Rudolph J., Townley, assignor to The Singer Manufacturing Company, Elizabeth, N. J. French seaming attachment for sewing machines. 2,612,855, Oct. 7.

St. Pierre, Henry, Worcester, Mass. Tire chain tightener. 2,612,670, Oct. 7.

St. Regis Paper Company, assignee: *See*—
Dorrington, Neill E., Dyker, and Peterson.
Peterson, William R., and Hartman.

Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Method of and machine for making and filling packages for fluent substances. 2,612,738, Oct. 7.

Samcoe Holding Corporation, assignee: *See*—
Walter, Jules G.

Sarbach, Donald V., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Cellular material and blowing agent therefor. 2,613,189, Oct. 7.

Sayre, Gordon B., assignor to Boonton Molding Company, Boonton, N. J. Transfer molding press. 2,612,658, Oct. 7.

Scaife, Alan M., Pittsburgh, Pa. Spectacle type hearing aid. 2,613,282, Oct. 7.

Schagen, Pieter: *See*—
Bruining, Hajo, de Boer, and Schagen.

Schatzman, George W., assignor to Houdaille-Hershey Corporation, Detroit, Mich. Fender shield latching device. 2,613,092, Oct. 7.

Schlage, Ernest L., Burlingame, Calif. Reversible latch bolt unit. 2,613,094, Oct. 7.

Schmitter, Walter P., Wauwatosa, assignor to The Falk Corporation, Milwaukee, Wis. Transmission. 2,612,786, Oct. 7.

Schneider, Gerald W.: *See*—
Schneider, Kenneth E., and G. W.

Schneider, Kenneth E., and G. W. Schneider, Borger, Tex. Line holder. 2,612,695, Oct. 7.

Schoepe, Adolf, assignor to Kwikset Locks, Inc., Anaheim, Calif. Strike. 2,613,096, Oct. 7.

Schonstedt, Erick O., Washington, D. C. Sun compass. 2,612,693, Oct. 7.

Schowalter, Clarence H., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Dual fuel engine. 2,612,880, Oct. 7.

Schroeder, Donald E.: *See*—
Gallagher, William P., Stolle, and Schroeder.

Schwalbe, William A., Seattle, Wash. Coin wrapping aid. 2,612,739, Oct. 7.

Scott, Edwin D., Plymouth, assignor to Ford Motor Company, Dearborn, Mich. Combined weatherstrip and retainer. 2,612,665, Oct. 7.

Scott, Robert W.: *See*—
Waltersdorf, Felix S., Scott, and Grothouse.

Seemann, Arthur K., Manhasset, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Pivoted device. 2,613,119, Oct. 7.

Self-Changing Gear Company Limited, assignee: *See*—
Wilson, Andrew G., and Miller.

Sellars, Fred M., Rochdale, England. Device for the attachment of lamps to motor vehicles. 2,613,052, Oct. 7.

Semple, John A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerator door construction. 2,612,661, Oct. 7.

Serrell, Robert, Princeton, and E. A. Goldberg, Princeton Junction, N. J., assignors to Radio Corporation of America. Computing device. 2,613,032, Oct. 7.

Shafer, Homer J., assignor to The Shafer Valve Co., Mansfield, Ohio. Pressure fluid actuated operator for pipe line valves. 2,612,906, Oct. 7.

Shafer Valve Co., The, assignee: *See*—
Shafer, Homer J.

Shager, Julian U., Tacoma, Wash. Steady rest. 2,612,809, Oct. 7.

Shaw-Walker Company, The, assignee: *See*—
Burdick, John S.

Shell Development Company, assignee: *See*—
Anderson, John, Mecorney, and Ham.
Fetterley, Lloyd C.

Sherman, Herbert P., Chicago, Ill. Duplicating machine. 2,612,834, Oct. 7.

Sherman Products Inc., assignee: *See*—
Tutton, Harry V.

Sherwin-Williams Company, The, assignee: *See*—
Walton, William T., and Holton.

Shilts, Shirley E., Olivet, Mich. Trap chain ring. 2,612,720, Oct. 7.

Shropshire, Elwood Y.: *See*—
Lo, Chien-Pen, Shropshire, and Croxall.

Shultz, John F., Pittsburgh, Pa., assignor to Tennessee Valley Authority. Oxidation of phosphorus with steam. 2,613,135, Oct. 7.

Shumaker, Howard A., Amherst, Ohio, and E. P. Turner, Fanwood, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Electric motor with split pole pieces. 2,613,242, Oct. 7.

Sidden, Henry W., Richmond Hill, N. Y. Weather stripping for storm doors. 2,612,664, Oct. 7.

Sidore, Saul O., Manchester, N. H. Material unrolling attachment for nap-raising machines. 2,612,676, Oct. 7.

Siegfried, Everett, assignee: *See*—
Hibbard, Roger W.

Silver, Bernard: *See*—
Woodland, Norman J., and Silver.

Silverman, Jacob, Brooklyn, N. Y. Box pleating machine. 2,613,019, Oct. 7.

Simjian, Luther G., Riverside, assignor to The Reflectone Corporation, Stamford, Conn. Furniture made of laminations or sections. 2,612,942, Oct. 7.

Simmons, Louis G., assignee: *See*—
Lasley, Robert A.

Simpson, Joseph A., Stockton, and C. Sutherland, Pasadena, assignors to Pacific Clay Products, Los Angeles, Calif. Continuous manufacture of extruded clay composition bodies. 2,612,706, Oct. 7.

Sims, Robert J.: *See*—
Walsh, Richard B., and Sims.

Sinclair Refining Company, assignee: *See*—
Kaasa, Orin G.

Singer Manufacturing Company, The, assignee: *See*—
Sailer, Rudolph J.
Shumaker, Howard A., and Turner.

Singleton, Lester D., Rutland, Vt., assignor to The Howe Scale Company. Weighing scale. 2,613,073, Oct. 7.

Sjostrom, Robert L., Andover, Mass. Barred roll drive. 2,612,987, Oct. 7.

Skay, Frank, Detroit, assignor to Ford Motor Company, Dearborn, Mich. Universal centering vise. 2,612,821, Oct. 7.

Skinner Chuck Company, The, assignee : *See*—
Harris, Dwight E.

Skinner, Leslie A., Berkeley, Calif., assignor to the United States of America as represented by the Secretary of War. Rocket having adjustable discharge passage. 2,612,747, Oct. 7.

Slack, Paul : *See*—
Billman, Beryl I., and Slack.

Slapnicher, Tony, Hibbing, Minn. Manually operated backwater sewer valve. 2,613,055, Oct. 7.

Slonneger, John C., assignor to The Continental Supply Company, Dallas, Tex. Cooling system for internal-combustion engines. 2,612,881, Oct. 7.

Small, Hervey W., Dubois, Idaho. Lever actuated pivoted outer jaw wrench with pivoted rack catch. 2,612,808, Oct. 7.

Smith, A. O., Corporation, assignee : *See*—
Gruetjen, Frederick A.
Keating, Leonard M.
Thompson, George G., and Vail.

Smith, Edwin K., Jr., New York, N. Y., assignor, by mesne assignments, to The de Florez Company, Inc. Folding and gathering means for books. 2,613,077, Oct. 7.

Smith, Leon G. : *See*—
Block, Harold L., and Smith.

Smith, Maurice C., Redlands, Calif. Adjustable support for finger surgery. 2,612,891, Oct. 7.

Smith, Talbot A., Baltimore, Md. Apparatus for removal of oil tank sludge and sediment. 2,612,998, Oct. 7.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Balancing ring material consisting of solutions of polystyrene in tetrabromoethane. 2,613,197, Oct. 7.

Smith, Thomas R., and D. P. Combs, assignors to The Maytag Company, Newton, Iowa. Washing machine provided with interlocking lid mounted vibration control means. 2,612,766, Oct. 7.

Snyder, Ellery P., U. S. Navy, Albany, N. Y., and J. H. Mulligan, Jr., U. S. Navy, East Orange, N. J. Counting down circuit. 2,613,318, Oct. 7.

Snyder, Jacob R., Cleveland, and J. F. Norton, Cleveland Heights, assignors to Thompson Products, Inc., Cleveland, Ohio. Seal and swivel mounting. 2,613,057, Oct. 7.

Societe Anonyme des Usines Chausson, assignee : *See*—
Didier, Maurice.

Societe Civile d'Etudes pour la Fabrication de Produits Industriels Manufactures (S. E. P. I. M.), assignee : *See*—
Rol, René C.

Sowden, Alfred, Arkansas City, Kans. Cargo brace and the like. 2,612,848, Oct. 7.

Sparks Machine Tool Corporation, assignee : *See*—
Lomazzo, Edmund J.

Specht, Edward H., Philadelphia, A. Neuman, North Hills, and H. T. Neher, Bristol, assignors to Rohm & Haas Company, Philadelphia, Pa. Preparation of acrylic acid and its anhydride. 2,613,222, Oct. 7.

Sperry Corporation, The, assignee : *See*—
Baggette, Thomas L., and Copithorne.
Esval, Orland E.
Kellogg, Spencer, 2nd.
Lang, Gregor L.
Mozley, Robert F.
Palmer, Winslow.

Sperti, George : *See*—
Embshoff, George F., and Sperti.

Spingarn, Arnold, Philadelphia, Pa. Hand-carried sprinkler. 2,613,110, Oct. 7.

Spodig, Heinrich, Dortmund-Wambel, Germany. Magnetic system. 2,613,246, Oct. 7.

Sproule, Lorne W., W. C. Pattenden, and L. F. King, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Keto-acid soap greases. 2,613,182, Oct. 7.

Spurlin, William G., Dearborn, and H. L. Brock, Detroit, assignors to Ford Motor Company, Dearborn, Mich. Adjustable wheel assembly. 2,613,113, Oct. 7.

Square D Company, assignee : *See*—
Blerenfeld, Josef.

Stafford, William L., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Refractory insulating brick and manufacture. 2,613,153, Oct. 7.

Standard Aluminum Products Company, assignee : *See*—
Pfaff, William M.

Standard Oil Company, The, assignee : *See*—
Doyle, Philip C., and Rudd.

Standard Oil Development Company, assignee : *See*—
Hill, Max W.
Kirshenbaum, Abraham D., and Boyle.
Kittleson, Allen R.
Sproule, Lorne W., Pattenden, and King.

Star Fastener, Inc., assignee : *See*—
Kauffmann, Henry.

Starks, Winston H. : *See*—
Otis, Charles F., and Starks.

Starr, James H., La Grange, Ill. Calculating tables and the like. 2,613,237, Oct. 7.

Starr, Samuel, Brooklyn, N. Y. Handbag. 2,612,925, Oct. 7.

Stehlik, Rudolph F., Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic recording of telephone numbers. 2,613,274, Oct. 7.

Stehlik, Rudolph F., Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic call recording system for automatic telephony. 2,613,275, Oct. 7.

Stehlik, Rudolph F., Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,613,278, Oct. 7.

Steinberg, Laurence : *See*—
Marek, Jan L., and Steinberg.

Steinberg, Samuel, New Haven, Conn. Chum-dispensing unit for fishermen. 2,612,718, Oct. 7.

Steven, George, Kenmore, and R. R. Fruehauf, Buffalo, N. Y., assignors to Worthington Corporation. Fuel injection pump. 2,612,842, Oct. 7.

Stevens, Sydney A., London, England, assignor, by mesne assignments, to Westinghouse Air Brake Company. Indicator for alternating electric current transformers. 2,613,260, Oct. 7.

Stewart, Arthur M., assignee : *See*—
Ruckman, Ruben L.

Stilmar, Frederic B. : *See*—
McCormack, William B., and Stilmar.

Stinnitt, Raymond : *See*—
Wadlington, James E., and Stinnitt.

Stockman, Harry E. S., Waltham, Mass. Wide range ultrahigh frequency tuning cavity. 2,613,269, Oct. 7.

Stodola, Edwin K., Neptune, N. J. Frequency modulation system. 2,613,348, Oct. 7.

Stolle, Anthony D. : *See*—
Gallagher, William P., Stolle, and Schroeder.

Stone, Walter R., Mount Vernon, N. Y. Rain-controlled switch for convertible top automobiles. 2,613,295, Oct. 7.

Stoneman, Alan C., San Marino, assignor to Purex Corporation, Ltd., South Gate, Calif. Vacuum neutralization of detergents. 2,613,218, Oct. 7.

Strayer, Chalmers A., Wilmington, assignor to Northrop Aircraft, Inc., Hawthorne, Calif. Hydraulic coupling valve. 2,612,872, Oct. 7.

Strollis, Edward A. : *See*—
Bastian, Theron E., Hellaby, and Strollis.

Strother, Fred P., Old Greenwich, Conn., assignor to Deering Milliken Research Trust, New York, N. Y. Control of independently variable characteristics. 2,612,743, Oct. 7.

Sun Oil Company, assignee : *See*—
Banks, Daniel B.
Janoski, Edward J.
Ockert, Carl E.

Sussman, Leon, New York, N. Y. Protective covering for cushions, mattresses, and the like. 2,612,646, Oct. 7.

Sutherland, Clark : *See*—
Simpson, Joseph A., and Sutherland.

Sutherland Paper Company, assignee : *See*—
Buttery, Kenneth T.

Swank, Robert K. : *See*—
Palevsky, Harry, and Swank.

Swanson, Earnest F. : *See*—
Greenleaf, Leland B., and Swanson.

Swift & Company, assignee : *See*—
Mattil, Karl F.

Swift, John F., Royal Oak, assignor to Ford Motor Company, Dearborn, Mich. Rotary hydraulic torque converter. 2,612,754, Oct. 7.

Sylvania Electric Products Inc., assignee : *See*—
Toorks, William P.

Szczeniowski, Boleslaw, West Montreal, Quebec, Canada. Rotary hydraulic torque converter. 2,612,755, Oct. 7.

Taig, William A., Farnham, England. Apparatus for grinding the bevel edge of spectacle and other lenses. 2,612,734, Oct. 7.

Tate, Kenneth L., and F. B. Newell, assignors to Taylor Instrument Companies, Rochester, N. Y. Differential pressure sensing unit. 2,612,908, Oct. 7.

Tawney, Gereld L., Port Washington, N. Y. Control circuits. 2,613,341, Oct. 7.

Taylor Instrument Companies, assignee : *See*—
Tate, Kenneth L., and Newell.

Taylor, Marvel E., and H. F. Miller, North Little Rock, Ark. Safety sealing device for refillable containers. 2,613,012, Oct. 7.

Teague, Walter D., Jr., Alpine, assignor to Bendix Aviation Corporation, Teterboro, N. J. Turbine apparatus driven by either of two unrelated sources of air pressure. 2,612,757, Oct. 7.

Teletype Corporation, assignee : *See*—
Halvorsen, Ralph H.

Tellbuescher, Elmo, assignee : *See*—
Hibbard, Roger W.

Tennessee Valley Authority, assignee : *See*—
Elmore, Kelly L.
Schultz, John F.

Tenney, William L., Crystal Bay, Minn. Model jet airplane. 2,612,722, Oct. 7.

Tenney, William L., Crystal Bay, Minn., and C. B. Marks, Las Vegas, Nev. ; said Marks assignor to said Tenney. Pulse jet mount. 2,612,748, Oct. 7.

Tenney, William L., Crystal Bay, Minn., and C. B. Marks, Las Vegas, Nev. ; said Marks assignor to said Tenney. Resonant pulse jet device with restricted flow passage. 2,612,749, Oct. 7.

Tenney, William L., Crystal Bay, Minn., and C. B. Marks, Las Vegas, Nev. ; said Marks assignor to said Tenney. Air screw, including a resonant pulse jet stream. 2,612,955, Oct. 7.

Terry, Victor J., T. F. S. Hargreaves, and H. T. Prior, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Carrier telegraph system. 2,613,272, Oct. 7.

Texas Company, The, assignee : *See*—
Herzog, Gerhard.

Thévenaz, Jean, Yverdon, assignor to Paillard S. A., Sainte-Croix, Switzerland. Mechanism for the intermittent driving of cinematographic films. 2,612,816, Oct. 7.

Thielens, Wagner P., Tuscaloosa, Ala., assignor to Gulf States Paper Corporation. Method and apparatus for packaging paperbags and the like. 2,612,737, Oct. 7.

Thomas, Henry C., Orangeburg, S. C. Wire stringing device. 2,613,256, Oct. 7.

Thomas, Thomas H., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control. 2,612,869, Oct. 7.

Thompson, George G., Pasadena, and A. J. Vail, Altadena, Calif., assignors to A. O. Smith Corporation, Milwaukee, Wis. Dynamic braking circuits for electric motors. 2,613,342, Oct. 7.

Thompson Products, Inc., assignee : *See*—
Snyder, Jacob R., and Norton.

Thomson, Bernard : *See*—
Wolfson, Henry, and Thomson.

Thurston, Vinal D., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Heating apparatus. 2,613,3T2, Oct. 7.

Times Facsimile Corporation, assignee : *See*—
Cooley, Austin G., and Busch.

Timpner, Henry, assignor of one-half to R. F. Krainz, Milwaukee, Wis. Hole spacing and centering device. 2,612,793, Oct. 7.

Tinkham, Thornton W., La Haska, Pa., assignor to Doeskin Products, Inc., New York, N. Y. Roll pull tab. 2,612,992, Oct. 7.

Tippet, Philip V., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Cane mill. 2,613,118, Oct. 7.

Titus, Lena, executrix : *See*—
Aiello, Joseph.

Todd, William, Neptune City, N. J., assignor to the United States of America as represented by the Secretary of War. Modulator for radiosonde apparatus. 2,613,347, Oct. 7.

Tomkins-Johnson Company, assignee : *See*—
Cranor, Gifford B.

Tomola, Anthony G., Fairport Harbor, Ohio. Egg opener. 2,612,921, Oct. 7.

Toorks, William P., Roxbury, assignor to Sylvania Electric Products Inc., Salem, Mass. Coating electron emissive cathodes. 2,613,164, Oct. 7.

Totten, Arthur L., Jr., assignor to Reynolds Metals Company, Richmond, Va. Label for re-usable bottles. 2,613,168, Oct. 7.

Trahan, Claudie R., Kountze, Tex. Rotary table drive connection. 2,613,060, Oct. 7.

Treppa, Helen, Los Angeles, Calif. Collapsible and portable dressing room. 2,612,900, Oct. 7.

Trevor, Bertram A., Riverhead, N. Y., assignor to Radio Corporation of America. Tuning indicator for frequency shift telegraphy. 2,613,271, Oct. 7.

Trico Products Corporation, assignee : *See*—
Deibel, Raymond.
Oishei, John R., and Deibel.

Troy, Raymond C., Cedar Rapids, Iowa. Air moving device. 2,613,030, Oct. 7.

Truitt, Charles E., Springfield, Ill. Device for dispensing granular materials in predetermined bulk quantities, having a measuring compartment and a valve. 2,613,018, Oct. 7.

Tully, William B., East St. Kilda, Victoria, Australia. Razor. 2,612,685, Oct. 7.

Turner, Edgar P : *See*—
Shumaker, Howard A., and Turner.

Tutton, Harry V., Detroit, assignor to Sherman Products Inc., Royal Oak, Mich. Track-laying tractor. 2,613,115, Oct. 7.

Tutton, Harry V., Detroit, assignor to Sherman Products Inc., Royal Oak, Mich. Track-laying tractor. 2,613,116, Oct. 7.

Twombly, Florence D., executrix : *See*—
Twombly, John H.

Twombly, John H., deceased, Hill, N. H. ; F. D. Twombly, executrix. Grinding machine. 2,612,733, Oct. 7.

Union Asbestos & Rubber Company, assignee : *See*—
Lundvall, John S.
O'Connor, Arthur F.

Union Carbide and Carbon Corporation, assignee : *See*—
Jacobsson, Wilgot J.
Seemann, Arthur K.

United Merchants and Manufacturers, Inc., assignee : *See*—
Ryder, James C.

United Shoe Machinery Corporation, assignee : *See*—
Heeley, Roland.
Morgan, Paul E.

United States Atomic Energy Commission, United States of America as represented by the, assignee : *See*—
Beckman, Arnold O., Herd, and Robinson.
Clack, Robert W.
Grunsky, Carl E.
Mulford, Stewart F.
Nelson, Walter H.
Palevsky, Harry, and Swank.

United States Plywood Corporation, assignee : *See*—
Cone, Charles N.

United States Rubber Company, assignee : *See*—
Cunningham, Marion M.
Grant, Arthur W.
Ladd, Elbert C., and Harvey.

United States Steel Company, assignee : *See*—
Johnston, Earl W.
Maier, August R.
Maier, August R., and Jacoby.

Universal Oil Products Company, assignee : *See*—
Mavity, Julian M.
Pines, Herman.

Unkauf, Henry C., Endicott, assignor to General Aniline & Film Corporation, New York, N. Y. Diazotype photoprinting material. 2,613,149, Oct. 7.

Unterharzer Berg- und Huttenwerke G. m. b. H., assignee : *See*—
Hellwig, Hans-Joachim.

Upjohn Company, The, assignee : *See*—
Jackson, William G.

Urech, Ernst : *See*—
Miescher, Karl, and Urech.

Usry, Woodrow W., Langley, S. C. Holding means for loom bushings. 2,612,911, Oct. 7.

Vacuum Concrete, Inc., assignee : *See*—
Billner, Karl P.

Vail, Arthur J. : *See*—
Thompson, George G., and Vail.

Van Hook, John O., Roslyn, and W. J. Croxall, Bryn Athyn, assignors to Rohm & Haas Company, Philadelphia, Pa. Tertiary aminomethylbenzenes. 2,613,208, Oct. 7.

Van Loon, Willem, Sittard, assignor to De Directie van de Staatsmijnen in Limburg, handelend voor en namens den Staat der Nederlanden, Heerlen, Netherlands. Gas-solid contact reactor. 2,613,138, Oct. 7.

Van Overbeek, Adrianus J. W. M. : *See*—
Jonker, Johan L. H., and van Overbeek.

Van Pelt, Percy E., Oakdale, Calif. Filler neck and air vent unit for water tanks. 2,613,013, Oct. 7.

Van Winkle, Delbert : *See*—
Zener, Clarence M., and Van Winkle.

Vaughan, Francis E., Pasadena, Calif. Drafting machine. 2,612,694, Oct. 7.

Vaughan Mfg. Co., assignee : *See*—
Dreier, Ray C.

Vecchio, Luigi, Syracuse, N. Y. Apparatus for eliminating toxic gases from exhaust fumes. 2,612,745, Oct. 7.

Verwohlt, Clarence H., St. Clairsville, Ohio. Heat-treating strip. 2,613,070, Oct. 7.

Vibro Dynamic Engineering, Inc., assignee : *See*—
Robinson, Richard S.

Vicars, T. & T., Limited, assignee : *See*—
Crosland, Edward M.

Vickers-Armstrongs Limited, assignee : *See*—
Jones, Lewis.

Vinson, William A., Madera, Calif. Soldering unit. 2,612,856, Oct. 7.

Vinson, William A., Madera, Calif. Sleeve compressing tool. 2,612,932, Oct. 7.

Von Duyke, Harrison M., assignor to New Dictatype Company, Incorporated, Wilmington, Del. Type bar operating mechanism for stenographic typewriters. 2,612,977, Oct. 7.

Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Method of and apparatus for activating labels. 2,613,007, Oct. 7.

Wade, George H., Sr., Middlebush, N. J. Housing structure for use either as an incubator or brooder. 2,612,863, Oct. 7.

Wadlington, Bettie B., assignee : *See*—
Wadlington, James E., and Stinnitt.

Wadlington, James E., Celina, Tenn., and R. Stinnitt Lexington, Ky., assignors of one-quarter to B. B. Wadlington, Celina, Tenn. Weed guard for artificial lures. 2,612,715, Oct. 7.

Wagner, William, Brooklyn, N. Y. Gasket cutter. 2,612,686, Oct. 7.

Walker, Floyd B., Mountain Park, Okla. Cultivator with weeder attachment. 2,612,825, Oct. 7.

Walker, Walter, Short Hills, N. J. Apparatus for distributing fluent materials. 2,613,109, Oct. 7.

Walley, John, and J. A. Johnson, Stoke-on-Trent, England. Towing clayware. 2,612,729, Oct. 7.

Walsh, Richard B., Spooner, Wis., and R. J. Sims, St. Paul, Minn. Milk can cover. 2,613,014, Oct. 7.

Walter, Jules G., Ridgewood, assignor to Samcoe Holding Corporation, New York, N. Y. Fluid power conversion apparatus. 2,612,873 Oct. 7.

Waltersdorf, Felix S., Bridgeport, R. W. Scott, Milford, Conn., and F. T. Grothouse, South Euclid, Ohio, assignors to General Electric Company. Electrical wiring panel. 2,613,306, Oct. 7.

Walton, William T., Village, assignors Cleveland, Ohio. Chicago, Ill., and A. B. Holton, Bay to The Sherwin-Williams Company, Powdered pigment compositions. 2,613,158, Oct. 7.

Walton, William T., Village, assignors Cleveland, Ohio. Chicago, Ill., and A. B. Holton, Bay to The Sherwin-Williams Company, Powdered pigment compositions. 2,613,159, Oct. 7.

Walton, William T., Village, assignors Cleveland, Ohio. Chicago, Ill., and A. B. Holton, Bay to The Sherwin-Williams Company, Powdered pigment compositions. 2,613,160, Oct. 7.

Wandrey, Clarence W., Wheaton, Ill., assignor to Zenith Radio Corporation. Driving mechanism for push-button tuners. 2,612,782, Oct. 7.

War, United States of America as represented by the Secretary of, assignee: *See*—
Cleveland, Charles H.
Skinner, Leslie A.
Todd, William.
Weiss, Herbert K.

Ward, Charles F., Narberth, assignor, by mesne assignments, to Reconstruction Finance Corporation, Philadelphia, Pa. Apparatus for measurement and control. 2,612,902, Oct. 7.

Warner, Roland O., Chicago, Ill., assignor to Hotpoint Inc. Switching apparatus for electric cooking appliances. 2,613,289, Oct. 7.

Watt, E. J., and A. Nelson, Loves Park, Ill. Wedging bench clamp. 2,612,917, Oct. 7.

Webb, Earle G., Bellevue, assignor, by mesne assignments, to Inland Manufacturing Company, Omaha, Nebr. Radiator back flush and cleaning booth. 2,612,899, Oct. 7.

Webber, Ludwig A.: *See*—
Johnstone, Leo H., Webber, and Costolow.

Weber, Milton N., assignor of one-half to H. W. Link, Detroit, Mich. Apparatus for maintaining load on lengthwise moving workpieces. 2,613,078, Oct. 7.

Webster-Brinkley Co., assignee: *See*—
Denny, Cartan H.

Weeks, Charles, assignor to Menlo Research Laboratory, Menlo Park, Calif. Ultraviolet flashlight and energizing unit therefor. 2,613,313, Oct. 7.

Weigle, Albert E., Irvington, N. J., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass. Fluid pressure-operated piston assembly. 2,612,871, Oct. 7.

Weise, Carl A., Los Angeles, assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Thermostatic oil cooler control with surge preventing valve. 2,613,034, Oct. 7.

Weiss, Herbert K., El Paso, Tex., assignor to the United States of America as represented by the Secretary of War. Gyroscopic gun sight. 2,612,692, Oct. 7.

Wells, Homer G., Memphis, Tenn. Operating mechanism for vending machines. 2,613,122, Oct. 7.

Wells, William S., Palo Alto, assignor to P. S. Linforth, San Francisco, Calif. Air gun breech magazine. 2,612,888, Oct. 7.

Westerman, Sydney L.: *See*—
Bagno, Samuel M., and Westerman.

Westinghouse Air Brake Company, assignee: *See*—
Stevens, Sydney A.

Westinghouse Brake and Signal Company Limited, assignee: *See*—
King, Kenneth G.

Westinghouse Electric Corporation, assignee: *See*—
Lisbin, David M., and Bivans.
Thurston, Vinal D.

Wets, Carlos, and A. Paduart, Uccle-Brussels, Belgium. Jetty and like structure. 2,612,758, Oct. 7.

Weyandt, Carl S., Homer City, Pa. Electric hammer with rectifier in handle. 2,613,241, Oct. 7.

Wheel Aligning Necessities, Inc., assignee: *See*—
Castiglia, Biagis.

Whelpley, Gordon E.: *See*—
Miller, Raymond J., Garmager, and Whelpley.

White, Chester M., assignor to Genesee Research Corporation, Rochester, N. Y. Fluid gasket sealing composition. 2,613,161, Oct. 7.

White, H. N., Company, The, assignee: *See*—
Meyers, Fred N.

White, Thomas A., Jackson Heights, assignor to National Starch Products Inc., New York, N. Y. Viscosity-stable casein adhesives. 2,613,155, Oct. 7.

Wiczer, Sol B., Washington, D. C. Alcohol fuel gel. 2,613,142, Oct. 7.

Wiemer, Herman K., Wallington, England. Apparatus for flavor treatment of chocolate. 2,612,832, Oct. 7.

Wieseman, Robert W., Schenectady, N. Y., assignor to General Electric Company. Elimination of corona in electrical apparatus. 2,613,238, Oct. 7.

Wiken, Ralph, assignor to The Falk Corporation, Milwaukee, Wis. Coupling. 2,612,764, Oct. 7.

Wilde, Geoffrey L. Coxbench, assignor to Rolls-Royce Limited, Derby, England. Axial flow compressor regulation. 2,613,029, Oct. 7.

Wilkinson, William T., executor: *See*—
Jones, Lewis.

Willard, George E.: *See*—
Baumgart, Elmer F., and Willard.

Willcox, Frederick P., Bethesda, Md. Photoelectric exposure meter for incident light measurements. 2,612,817, Oct. 7.

Williams, Fred F., Everett, Wash. Hacksaw. 2,612,920, Oct. 7.

Williams, Marvin L., Tulare, Calif. Swivel hitch for earthworking implements. 2,612,826, Oct. 7.

Willson, David R., Muskegon Heights, Mich., assignor to John Wood Company. Lever actuated valve with shifting fulcrum. 2,612,905, Oct. 7.

Wilson, Andrew G., and A. A. Miller, assignors to Self-Changing Gear Company Limited, Coventry, England. Epicyclic gear. 2,612,792, Oct. 7.

Wilson, Arthur O., Okanogan, assignor of one-half to J. D. Fisk, Seattle, Wash. Rotary internal-combustion engine. 2,612,878, Oct. 7.

Wilson & Co., Inc., assignee: *See*—
Forsyth, John S.

Wiltsey, Howard E., assignor to J. I. Case Company, Racine, Wis. Variable-speed transmission. 2,612,785, Oct. 7.

Wingfoot Corporation, assignee: *See*—
Nicol, William H.

Woelfer, Robert O., Rahway, assignor to Container Equipment Corporation, Newark, N. J. Carton erecting machine. 2,612,823, Oct. 7.

Wolfram, John N., assignor to The Parker Appliance Company, Cleveland, Ohio. Coupling for flareless tubes. 2,613,086, Oct. 7.

Wolfson, Henry, and B. Thomson, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Silver plating. 2,613,179, Oct. 7.

Wollet, Edward, Lakewood, Ohio. Wire creeper. 2,613,257, Oct. 7.

Wood, John, Company, assignee: *See*—
Willson, David S.

Wood Joseph D., Upper Darby, A. S. Casewell, and E. Goessel, assignors to I. T. E. Circuit Breaker Company, Philadelphia, Pa. High-voltage circuit breaker. 2,613,299, Oct. 7.

Wood, Morris B., Newburyport, Mass. Trip-free circuit breaker. 2,613,296, Oct. 7.

Woodland, Norman J., Ventnor, N. J., and B. Silver, Philadelphia, Pa. Classifying apparatus and method. 2,612,994, Oct. 7.

Woods, Stephen E., Briston, assignor to The National Smelting Company Limited, London, England. Apparatus for showering molten metals. 2,613,074, Oct. 7.

Worthen, Eugene P., Braintree, and F. S. Barbour, Wollaston, Mass., assignors to Bethlehem Steel Company. Low-pressure flash evaporator. 2,613,177, Oct. 7.

Worthington Corporation, assignee: *See*—
Steven, George, and Fruehauf.

Wrap-King Corporation, assignee: *See*—
Ouellette, Clarence.

Wread, William E., Los Angeles, Calif. Erecting concrete structures. 2,612,675, Oct. 7.

Wright, Richard C. Bay Village, assignor to Iron Fireman Manufacturing Company, Cleveland, Ohio. Gas burner. 2,612,943, Oct. 7.

Wurlitzer, Rudolph, Company, The, assignee: *See*—
Fuller, Paul M.

Yeggy, Wilfred N., Solon, Iown. Tractor guide tire. 2,612,929, Oct. 7.

Young, Donald P., Sanderstead, England, assignor to The Distillers Company Limited, Edinburgh, Scotland. Hydroxylation of olefinic compounds. 2,613,223, Oct. 7.

Young, William O., assignee: *See*—
Fox, Marvin C.

Youngren, Harold T., Birmingham, Mich., and S. V. Hettinger, Jr., Westchester, assignors to Borg-Warner Corporation, Chicago, Ill. Double countershaft transmission. 2,612,787, Oct. 7.

Zaidan, Joseph P., Philadelphia, Pa. Woodworking plane with chip releasing means. 2,612,918, Oct. 7.

Zeis, Donald C., Cromers, Ohio. Rotary milk can and bucket rack. 2,612,999, Oct. 7.

Zener, Clarence M., Newton Center, and D. Van Winkle, Newtonville, Mass. Method and apparatus for stress-strain testing. 2,612,774, Oct. 7.

Zenith Radio Corporation, assignee: *See*—
Wandrey, Clarence W.

Zetts, Joseph J., Gaithersburg, Md. Fishing reel. 2,613,044, Oct. 7.

Ziegler, Eugene R., Spencerport, assignor to Ritter Company, Inc., Rochester, N. Y. Apparatus for supplying fluid-borne flow of abrasive material. 2,612,732, Oct. 7.

Zimmer, George H., Jr.: *See*—
Byram, Frederick C., and Zimmer.

Zodtner, Harlan H.: *See*—
Baker, Marlin S., and Zodtner.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Automatic control system using nonlinear responsive elements. E. T. Davis. Re. 23,561, Oct. 7.

Automotive power drive control system and mechanism. G. T. Randol. Re. 23,562, Oct. 7.

LIST OF DESIGN INVENTIONS

Air Conditioning unit, Room. B. W. Jewell. 167,898, Oct. 7.

Automobile. G. H. Muller. 167,905–06, Oct. 7.

Bottle, Nursing. A. J. Taranton. 167,914, Oct. 7.

Box, Jewelry. M. Weill. 167,918, Oct. 7.

Box, Novelty. C. Kraml. 167,902, Oct. 7.

Brush to shine shoes or similar article, Rotary. V. A. Restagno. 167,909, Oct. 7.

Commode, Extension. H. B. Gaines. 167,884, Oct. 7.

Compact. N. Kasdan. 167,900, Oct. 7.

Cup. F. Wagner. 167,917, Oct. 7.

Doll. L. D. Ballew. 167,877, Oct. 7.

Girdle. A. C. Spero. 167,912, Oct. 7.

Heater, Air fan. M. E. Lautner. 167,903, Oct. 7.

Holder, Automobile license plate. G. A. Gazan, Jr. 167,885, Oct. 7.

Holder, License plate. J. C. Bessolo. 167,878, Oct. 7.

Holder, Paper. M. Hallward. 167,894, Oct. 7.

Holder, Soap. M. Hallward. 167,895, Oct. 7.

Holder, Tissue. M. Hallward. 167,890, Oct. 7.

Holder, Toothbrush. M. Hallward. 167,891, Oct. 7.

Holder, Tumbler. M. Hallward. 167,893, Oct. 7.

Inflatable burro for water sport. R. H. Wendt. 167,919, Oct. 7.

Jar or similar article, Stacked snack. A. J. Dreitzer. 167,880, Oct. 7.

Jar wrench, can punch, and bottle opener, Combined. C. Zuras. 167,920, Oct. 7.

Knitting device or similar article. J. M. Smith. 167,911, Oct. 7.

Lace. H. Farnsworth. 167,882, Oct. 7.

Lace or similar article. B. Edson. 167,881, Oct. 7.

Pie crust crimper. G. B. Genhart. 167,886, Oct. 7.

Plastic sheet or similar article, Embossed. A. Q. Freedman. 167,883, Oct. 7.

Pointer for pencils, Multiple. T. L. E. Haug. 167,896, Oct. 7.

Rack for pot holders. B. L. Buchanan. 167,879, Oct. 7.

Screwdriver, cap remover, envelope opener, and nail file, Combination. N. Joannides. 167,899, Oct. 7.

Shoulder bag. C. Stark. 167,913, Oct. 7.

Stocking. G. W. Smith. 167,910, Oct. 7.

Stopper for bottles, Dispensing. A. L. Voight. 167,916, Oct. 7.

Switch plate and thermometer plate, Combined. J. C. Hughes. 167,897, Oct. 7.

Toaster. D. C. Pulliam. 167,908, Oct. 7.

Tie clasp. R. Loewy. 167,904, Oct. 7.

Towel bar. M. Hallward. 167,892, Oct. 7.

Toy automobile. R. I. Genin and G. E. Stahl. 167,887–9, Oct. 7.

Vehicle trim louver or similar article. C. H. Phaneuf. 167,907, Oct. 7.

Wallet or similar article. S. Knee. 167,901, Oct. 7.

Woven ecclesiastical banding. A. J. Vervaet. 167,915, Oct. 7.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 7TH DAY OF OCTOBER, 1952

NOTE.—**Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).**

Acrylic acid and its anhydride, Preparation of. E. H. Specht, A. Neuman and H. T. Neher. 2,613,222, Oct. 7.
Activating labels, Method of and apparatus for. G. W. von Hofe. 2,613,007, Oct. 7.
Actuating gas-discharge lamps. T. Curzon. 2,613,337, Oct. 7.
Adjusting screw for firearms. C. H. Cleveland. 2,612,820, Oct. 7.
Air conditioning and speaker unit for automobiles. J. R. Kendrick. 2,612,830, Oct. 7.
Air gun breech magazine. W. S. Wells. 2,612,888, Oct. 7.
Air moving device. R. C. Troy. 2,613,030, Oct. 7.
Air screw, including a resonant pulse jet system. W. L. Tenney and C. B. Marks. 2,612,955, Oct. 7.
Alarm device, Smoke-operated electrical. S. Giudice. 2,613,259, Oct. 7.
Alcohol fuel gel. S. B. Wiczer. 2,613,142, Oct. 7.
Alloying copper and iron. C. H. Audette. 2,613,148, Oct. 7.
α-Phenylamino-propionic acid amidine and its salts. K. Miescher and E. Urech. 2,613,225, Oct. 7.
Altimeter switch. R. W. Hewes. 2,613,329, Oct. 7.
Amplifier, Balanced input high-frequency. K. N. Fromm. 2,613,285, Oct. 7.
Amplifier, Cathode follower. D. G. C. Hare. 2,613,286, Oct. 7.
Angular-velocity-modulation wave-signal translating system. B. D. Loughlin. 2,613,316, Oct. 7.
Animal trap. O. F. Legg. 2,612,719, Oct. 7.
Antenna. A. G. Kandoian. 2,613,349, Oct. 7.
Antenna, Adjustable. D. M. Lisbin and I. Bivens. 2,613,319, Oct. 7.
Antibacklash fishing device. W. A. Kelso. 2,613,047, Oct. 7.
Antiloss device. G. M. Brueckner. 2,612,669, Oct. 7.
Antipercolating device. W. E. Egerer, H. B. Medley and M. J. Kittler. 2,613,068, Oct. 7.
Apparatus for boning and slitting fish. R. M. Berglund. 2,612,652, Oct. 7.
Apparatus for distributing fluent materials. W. Walker. 2,613,109, Oct. 7.
Apparatus for drawing filaments. H. E. Holcomb. 2,613,039, Oct. 7.
Apparatus for eliminating toxic gases from exhaust fumes. L. Vecchio. 2,612,745, Oct. 7.
Apparatus for flavor treatment of chocolate. H. K. Wiemer. 2,612,832, Oct. 7.
Apparatus for forming and lining pipes. R. C. Rifenburg. 2,612,672, Oct. 7.
Apparatus for grinding the bevel edge of spectacle and other lenses. W. A. Taig. 2,612,734, Oct. 7.
Apparatus for maintaining load on lengthwise moving workpieces. M. N. Weber. 2,613,078, Oct. 7.
Apparatus for manufacturing slide fasteners. H. Kaufmann. 2,612,795, Oct. 7.
Apparatus for measurement and control. C. F. Ward. 2,612,902, Oct. 7.
Apparatus for metering and distributing anhydrous ammonia in a liquid state. T. L. Baggette and A. R. Copithorne. 2,612,760, Oct. 7.
Apparatus for producing synthesis gas. C. L. Crawford. 2,613,145, Oct. 7.
Apparatus for removal of oil tank sludge and sediment. T. A. Smith. 2,612,998, Oct. 7.
Apparatus for sealing valved bags. W. R. Peterson and C. H. Hartman. 2,613,022, Oct. 7.
Apparatus for showering molten metals. S. E. Woods. 2,613,074, Oct. 7.
Apparatus for supplying fluid-borne flow of abrasive material. E. R. Ziegler. 2,612,732, Oct. 7.
Apparatus for transporting and handling finely ground materials. A. R. Kane. 2,613,004, Oct. 7.
Apparatus for winding sheet material about cylindrical bodies. W. D. Kmentt. 2,613,043, Oct. 7.
Armchair, Upholstered rocking. H. B. Lansaw. 2,612,936, Oct. 7.
Article grasping and handling device. W. L. Casey, Jr. 2,613,100, Oct. 7.
Article of furniture, Reclining. A. Lorenz. 2,612,937, Oct. 7.
Atomizer. J. Fletcher. 2,613,112, Oct. 7.
Attaching means. A. Cohn. 2,612,813, Oct. 7.
Attachment for projectors for projecting stereoscopic pictures. W. J. R. Jackson. 2,612,818, Oct. 7.
Auger, Undercutting earth. R. A. Ransdall. 2,613,063, Oct. 7.
Automatic feeder and transfer mechanism for tobacco ordering machines. W. W. Michaux, Jr. 2,612,982, Oct. 7.
Automatic tree trimmer. W. E. Llewellyn. 2,612,724, Oct. 7.
Auxiliary contact construction for load interrupter switches. J. J. Kojis. 2,613,291, Oct. 7.
Axial flow compressor regulation. G. L. Wilde. 2,613,029, Oct. 7.
Backfire trap. O. A. Carnahan. 2,613,144, Oct. 7.
Back rest, Portable. H. E. Dawkins and S. T. Dodin. 2,612,938, Oct. 7.
Bag filling machine. N. E. Dorrington, J. A. Dyker and W. R. Peterson. 2,613,053, Oct. 7.
Balancing ring material consisting of solutions of polystyrene in tetrabromoethene. T. R. Smith. 2,613,197, Oct. 7.
Bale loader with wide pickup means. M. E. McClellan. 2,612,979, Oct. 7.
Bar: *See*—
  Composite detergent bar.
Barred roll drive. R. L. Sjostrom. 2,612,987, Oct. 7.
Battery testing apparatus and method. S. L. Christie. 2,613,248, Oct. 7.
Belt measuring device. A. T. Bodle. 2,612,698, Oct. 7.
Beneficiation of nonmetallic minerals. J. E. Lawver. 2,613,035, Oct. 7.
Benzyl-tert.-octylamine. W E Craig and L. J. Exner. 2,613,226, Oct. 7.
Binding boxes, Method of and apparatus for. C. M. MacChesney. 2,612,833, Oct. 7.
Bit: *See*—
  Earth drilling bit.
Blind fastener. E. E. Aylor. 2,612,927, Oct. 7.
Board: *See*—
  Cross connecting board.
Boat carrier for automobiles. D. N. Berry. 2,613,020, Oct. 7.
Bobbin winding machine. R. Heeley. 2,613,038, Oct. 7.
Boil-off apparatus for textile fabrics. V. T. Fabringer. 2,612,770, Oct. 7.
Bolster spring and snubber means for railway car trucks. C. D. Barrett. 2,613,075, Oct. 7.
Bookholder. W. L. Pollard. 2,612,721, Oct. 7.
Boric acid esters of mono-hydroxycycloalkanes. M. M. Clark. 2,613,219, Oct. 7.
Bottle or container inspection apparatus. E. H. Britt. 2,612,815, Oct. 7.
Box: *See*—
  Nesting box.
Box pleating machine. J. Silverman. 2,613,019, Oct. 7.
Brake: *See*—
  Vehicle wheel brake.
Brake. J. G. Hawley. 2,612,969, Oct. 7.
Brake assembly for rotary card files. B. Discount. 2,612,970, Oct. 7.
Brake beam stabilizer. R. B. Cottrell. 2,612,971, Oct. 7.
Brassière construction. S. H. Plon. 2,612,641, Oct. 7.
Breaker block for rolling mills. W. H. Bailey. 2,612,798, Oct. 7.
Broad band-pass circuit arrangement. A. M. J. Jaspers. 2,613,268, Oct. 7.
Bumper guard structure. R. H. Arbib. 2,613,099, Oct. 7.
Burner: *See*—
  Gas burner.
Button-pinning machine, Automatic. T. E. Bastian, J. A. Hellaby and E. A. Strollis. 2,612,796, Oct. 7.
Calcium sulfanilamide preparations. S. L. Ruskin. 2,613,170, Oct. 7.
Calculating tables and the like. J. H. Starr. 2,613,237, Oct. 7.
Can and bucket rack, Rotary milk. D. C. Zeis. 2,612,999, Oct. 7.
Candy making equipment. R. F. Morrison. 2,612,851, Oct. 7.
Candy slicing equipment. R. F. Morrison. 2,612,852, Oct. 7.
Cane mill. P. V. Tippet. 2,613,118, Oct. 7.
Carburetor choke mechanism. H. G. Moore. 2,612,790, Oct. 7.
Card structure and making same. L. Baker. 2,612,711, Oct. 7.
Cargo brace and the like. A. Sowden. 2,612,848, Oct. 7.
Cargo handling apparatus for ships. B. M. Green. 2,613,001, Oct. 7.
Carrier telegraph system. V. J. Terry, T. F. S. Hargreaves, and H. T. Prior. 2,613,272, Oct. 7.

Carton, Collapsible cellular. K. T. Buttery. 2,613,024, Oct. 7.
Carton erecting machine. R. O. Woelfer. 2,612,823, Oct. 7.
Carton packing apparatus. L. H. Bowes. 2,613,021, Oct. 7.
Case: *See*—
  Refrigerated case.
Catalytic conversion of hydrocarbons and the stripping of the fouled catalyst particles with steam. O. G. Kaasa. 2,613,173. Oct. 7.
Cathode-ray image converter tube. H. Bruining and P. Schagen. 2,613,330, Oct. 7.
Cavity resonator electronic oscillation generator. J. H. Fremlin and R. N. Hall. 2,613,335, Oct. 7.
Ceiling washer. S. P. Lagant. 2,612,648, Oct. 7.
Cellular material and blowing agent therefor. D. V. Sarbach. 2,613,189, Oct. 7.
Centrifugal pump with fabricated volutes, In-line. F. A. Gruetjen. 2,612,843, Oct. 7.
Chain saw gauge. A. W. Pearce. 2,612,702, Oct. 7.
Chain-tightening means with ratchet lock. N. F. Andrews. 2,612,988, Oct. 7.
Chair back, Tilting. J. S. Burdick. 2,612,939, Oct. 7.
Chair with adjustable leg and footrest supports, Medical practice. N. E. Lauterbach. 2,612,940, Oct. 7.
Chassis frame for road vehicles. D. E. Hobbs. 2,612,964, Oct. 7.
Chemical brightening of aluminum. W. C. Cochran. 2,613,141, Oct. 7.
Chicken coop. V. M. Ipsen. 2,612,862, Oct. 7.
Chip conveying means. E. J. Lomazzo. 2,612,986, Oct. 7.
Chum-dispensing unit for fisherman. S. Steinberg. 2,612,718, Oct. 7.
Cigarette snuffer with sand renewing means. M. C. Fox. 2,612,896, Oct. 7.
Circuit: *See*—
  Counting down circuit.
Circuit breaker, High-voltage. J. D. Wood, A. S. Caswell, and E. Goessel. 2,613,299, Oct. 7.
Circuit breaker, Trip-free. M. B. Wood. 2,613,296, Oct. 7.
Circuits for object locator apparatus. R. F. Mozley. 2,613,317, Oct. 7.
Cladding a copper-base metal to an aluminum core. H. B. Burrack. 2,612,682, Oct. 7.
Clamp: *See*—
  Safety ground clamp. Wedging bench clamp.
Clamp. E. Pleasance. 2,612,794, Oct. 7.
Classifying apparatus and method. N. J. Woodland. and B. Silver. 2,612,994, Oct. 7.
Cleaning composition. C. F. Pickett and M. Rosenfeld. 2,613,186, Oct. 7.
Cleaning of manufactured jewelry parts. J. V. Lorea and T. F. O'Rourke. 2,612,898, Oct. 7.
Clip clinching machine. G. R. Reed. 2,612,933, Oct. 7.
Clothes-washing machine. G. P. Castner. 2,612,767, Oct. 7.
Clothes-washing machine. G. P. Castner. 2,612,769, Oct. 7.
Clothes-washing machine with diaphragm squeezer extractor. G. P. Castner. 2,612,768, Oct. 7.
Clutch: *See*—
  Power actuated overload release clutch.
Clutch control. T. H. Thomas. 2,612,869, Oct. 7.
Clutch control mechanism. S. L. Janowski. 2,612,973, Oct. 7.
Coating compositions containing aluminum alcoholates as driers. H. W. Chatfield. 2,613,162, Oct. 7.
Coating electron emissive cathodes. W. P. Toorks. 2,613,164, Oct. 7.
Coil grinding equipment. W. K. Lowe. 2,612,730, Oct. 7.
Coin wrapping aid. W. A. Schwalbe. 2,612,739, Oct. 7.
Collapsible container. M. M. Cunningham. 2,612,924, Oct. 7.
Collapsible container. V. and J. Di Mauro, and G. De George. 2,612,926, Oct. 7.
Collapsible containers, Making. M. M. Cunningham. 2,613,169, Oct. 7.
Collar, Shirt. J. W. Less. 2,612,644, Oct. 7.
Compass. A. F. R. Cotton. 2,612,690, Oct 7.
Compass, Sun. E. O. Schonstedt. 2,612,693, Oct. 7.
Compensated thermocouple. S. F. Mulford. 2,612,779, Oct. 7.
Composite detergent bar. D. E. Marshall. 2,613,185, Oct. 7.
Compressor, Air. E. F. Baumgart and G. E. Willard. 2,613,027, Oct. 7.
Compressor for use on aircraft, Air. C. A. Davis. 2,613,028, Oct. 7.
Computing device. R. Serrell and E. A. Goldberg. 2,613,032, Oct. 7.
Concentration of partially polymerized diallyl phthalate. J. Anderson, J. W. Mecorney, and G. E. Ham. 2,613,201, Oct. 7.
Constant speed pump and motor hydraulic transmission. J. E. Bevins. 2,612,753, Oct. 7.
Contacting device for electric heating panels. C. Frere. 2,613,309, Oct. 7.
Container: *See*—
  Collapsible container. Soap container.
Container for cleansing liquids. R. Foreshaw-Smith. 2,613,011, Oct. 7.
Continuous manufacture of extruded clay composition bodies. J. A. Simpson and C. Sutherland. 2,612,706, Oct. 7.
Control circuits. G. L. Tawney. 2,613,341, Oct. 7.
Control device. C. G. Kronmiller. 2,613,105, Oct. 7.
Control means for gas-turbine or jet engines which facilitates starting of the engine. D. H. Ballantyne. 2,612,751, Oct. 7.
Control of independently variable characteristics. F. P. Strother. 2,612,743, Oct. 7.
Control system. L. Kahn. 2,613,255, Oct. 7.
Conveyer and chute, Vertically swingable. E. M. Crosland. 2,612,985, Oct. 7.
Conveyer belt supporting mechanism. A. L. Lee. 2,613,117, Oct. 7.
Conveyer, Shingle. W. H. Alden, Jr. 2,612,984, Oct. 7.
Conveyer system. A. T. C. Burrows. 2,612,847, Oct. 7.
Cooled bladed rotor. J. Atkinson. 2,613,058, Oct. 7.
Cooler: *See*—
  Marine engine water cooler.
Cooling heavy duty motors. R. I. Robinson. 2,613,240, Oct. 7.
Cooling system for internal-combustion engines. J. C. Slonneger. 2,612,881, Oct. 7.
Copyholder. J. L. Macauley and A. Dal Favero. 2,612,865. Oct. 7.
Copyholder and bookholder and line follower. H. B. Abbott. 2,612,866, Oct. 7.
Corn and callus trimmer. C. L. Potvin. 2,612,683, Oct. 7.
Counting down circuit. E. P. Snyder and J. H. Mulligan, Jr. 2,613,318, Oct. 7.
Coupling: *See*—
  Hose coupling.
Coupling. R. Wiken. 2,612,764, Oct. 7.
Coupling for flareless tubes. J. N. Wolfram. 2,613,086, Oct. 7.
Cover: *See*—
  Milk can cover.
Covering for cushions, mattresses, and the like, Protective. L. Sussman. 2,612,646, Oct. 7.
Cross connecting board. E. F. Geiger. 2,613,287, Oct. 7.
Crystalline complexes of urea and cyclic oxygen containing compounds. L. C. Fetterly. 2,613,204, Oct. 7.
Crystallizer, Fractional. D. L. McKay. 2,613,136, Oct. 7.
Cue holder. H. G. Reynolds. 2,613,079. Oct. 7.
Cultivator with weeder attachment. F. B. Walker. 2,612,825, Oct. 7.
Cumene oxidation. G. G. Joris. 2,613,227, Oct. 7.
Cushion, Reclining air. G. L. Boland. 2,612,645, Oct. 7.
Cutter: *See*—
  Gasket cutter.
Cyclooctatetraene, Preparation of. A. J. Canale and J. K. Kincaid. 2,613,231, Oct. 7.
Determining proportions in compositions of substances. G. Herzog. 2,613,325–6, Oct. 7.
Device for changing bobbins in spinning machines. C.-O. Christianson. 2,612,744, Oct. 7.
Device for dispensing granular materials in predetermined bulk quantities, having a measuring compartment and a valve. C. E. Truitt. 2,613,018, Oct. 7.
Device for holding mass spectrometer on a preset mass peak. C. F. Robinson. 2,613,322, Oct. 7.
Device for introducing atomized liquid into gas under pressure. H. J. Goodyer. 2,613,067, Oct. 7.
Device for measuring lengths. L. E. H. Gustavsson. 2,612,699, Oct. 7.
Device for perforating elastic sheet material. H. Ewing. 2,612,950, Oct. 7.
Device for straightening and curling hair. F. Bourland. 2,612,897, Oct. 7.
Device for the attachment of lamps to motor vehicles. F. McD. Sellars. 2,613,052, Oct. 7.
Dial, Telephone. J. A. Petnel. 2,613,280, Oct. 7.
Diazotype photoprinting material. H. C. Unkauf. 2,613,149, Oct. 7.
Die casting apparatus. J. J. McGarigal. 2,612,666, Oct. 7.
Differential pressure sensing unit. K. L. Tate and F. B. Newell. 2,612,908, Oct. 7.
Diketone ion-exchange resins. C. H. McBurney. 2,613,200, Oct. 7.
Discharge valve for fuel injection pumps, Variable retraction. R. A. Lasley. 2,612,841, Oct. 7.
Dispenser: *See*—
  Fluid dispenser.
Dispenser for viscous liquids and valve therefor. J. Jarrett and H. C. Berggren. 2,613,016, Oct. 7.
Dispensing device and valve assembly therefor. A. T. Phillips. 2,613,017, Oct. 7.
Display package and mound therefor. G. Harrison. 2,612,989, Oct. 7.
Dolly for transporting tripod cameras. R. J. Moludy. 2,613,083, Oct. 7.
Door for refrigerator cars. A. F. O'Connor. 2,612,659, Oct. 7.
Door lock. R. C. Clark. 2,612,771, Oct. 7.
Door operation control. C. W. Bassett. 2,613,076, Oct. 7.
Dosimeter. A. O. Beckman, H. H. Herd, and A. D. Robinson. 2,613,327, Oct. 7.
Double countershaft transmission. H. T. Youngren and S. V. Hettinger, Jr. 2,612,787, Oct. 7.
Double siphon. F. de Encico y Carnerero. 2,612,903, Oct. 7.
Dough ring cutting machine. A. J. Bale, Jr. 2,612,853, Oct. 7.

Dovetail construction. B. J. Craig. 2,613,097, Oct. 7.
Drafting machine. F. E. Vaughan. 2,612,694, Oct. 7.
Drain valve. J. W. Richards and B. G. Harris. 2,612,904, Oct. 7.
Drawer for refrigerators, Frozen food. R. E. Patten. 2,613,123, Oct. 7.
Dressing room, Collapsible and portable. H. Treppa. 2,612,900, Oct. 7.
Drier: *See*—
Tumbler clothes drier.
Driving mechanism for push-button tuners. C. W. Wandrey. 2,612,782, Oct. 7.
Dual fuel engine. C. H. Schowalter. 2,612,880, Oct. 7.
Dump body construction. G. Maxon, Jr. 2,613,106, Oct. 7.
Duplicating machine. H. P. Sherman. 2,612,834, Oct. 7.
Dynamic braking circuits for electric motors. G. G. Thompson and A. J. Vail. 2,613,342, Oct. 7.
Earth drilling bit. C. M. Harbert. 2,613,062, Oct. 7.
Elastic hydrocarbon substituted polysiloxanes and aliphatic azo compounds as catalysts. P. A. Di Giorgio and M. M. Safford. 2,613,199, Oct. 7.
Electric circuit and component. J. D. Heibel. 2,613,252, Oct. 7.
Electric control system. J. Robinson. 2,613,346, Oct. 7.
Electric discharge device. E. D. McArthur. 2,613,332, Oct. 7.
Electric motor control system. J. C. Ryder. 2,613,338, Oct. 7.
Electric relay. K. G. King. 2,613,254, Oct. 7.
Electric resistance apparatus. H. Paul-Huhne. 2,613,300, Oct. 7.
Electric socket for miniature tubes. S. M. Del Camp. 2,613,244, Oct. 7.
Electrical control. G. H. Lister. 2,613,253, Oct. 7.
Electrical heating device for poultry watering bowls. J. W. Goff. 2,613,311, Oct. 7.
Electrical system. C. F. Otis and W. H. Starks. 2,613,334, Oct. 7.
Electrical wiring panel. F. S. Waltersdorf, R. W. Scott, and F. T. Grothouse. 2,613,306, Oct. 7.
Electrically heated paint removing tool. R. H. Green. 2,613,310, Oct. 7.
Electroforming seamless tubes. A. W. Grant. 2,613,178, Oct. 7.
Electron beam deflection and rebalancing apparatus. W. H. Kliever. 2,613,340, Oct. 7.
Elimination of corona in electrical apparatus. R. W. Wieseman. 2,613,238, Oct. 7.
Ellipsograph. R. L. Fowler. 2,612,691, Oct. 7.
Embalmer's tissue separator. J. W. Renfro. 2,612,678, Oct. 7.
Engine: *See*—
Dual fuel engine.
Rotary internal-combustion engine.
Engine governor control means. C. D. Christie. 2,612,965, Oct. 7.
Epicyclic gear. A. G. Wilson and A. A. Miller. 2,612,792, Oct. 7.
Equipment for striking type characters. A. Bauer. 2,612,836, Oct. 7.
Erecting concrete structures. W. E. Wread. 2,612,675, Oct. 7.
Expander for brakes and clutches. R. J. Keller. 2,612,909, Oct. 7.
Expansible molding core. K. P. Billner. 2,612,673, Oct. 7.
Exposure meter for incident light measurements, Photoelectric. F. P. Willcox. 2,612,817, Oct. 7.
Extruding rubber-like material, Method and apparatus for. T. O. Mathues. 2,612,655, Oct. 7.
Facsimile recorder with stylI actuated or propelled by a belt. A. G. Cooley and G. B. Busch. 2,613,124, Oct. 7.
Falling film type of vacuum still with rotating partial condenser. A. W. Goldsbarry and M. S. Agruss. 2,613,176, Oct. 7.
Fastener: *See*—
Blind fastener.
Feeding apparatus, Including injectors adapted to supply combustion liquids under pressure to a combustion chamber. R. H. Goddard. 2,612,752, Oct. 7.
Fender shield latching device. G. W. Schatzman. 2,613,092, Oct. 7.
Fiber forming solutions. A. B. Craig. 2,613,194, Oct. 7.
Fiber spinning method and apparatus. D. E. O'Connor. 2,612,654, Oct. 7.
Fiber spinning solutions. A. B. Craig. 2,613,195, Oct. 7.
Filament crusher and circuit breaker for safety hand lamps, Combination. E. J. Garland. 2,613,314, Oct. 7.
Filaments containing fillers. R. K. Kadisch. 2,612,679, Oct. 7.
Filing, milling, and grinding machines, Portable. K. Patzak. 2,612,784, Oct. 7.
Filler neck and air vent unit for water tanks. P. E. Van Pelt. 2,613,013, Oct. 7.
Filling pressuretight containers with a liquid product and a volatile propellant. I. Reich. 2,613,023, Oct. 7.
Film holder. E. J. Lewis. 2,613,040, Oct. 7.
Filter: *See*—
Polyethylene air filter.
Final-shaping attachment for wire-drawing machines. E. W. Johnston. 2,612,797, Oct. 7.
Fish diverting apparatus. H. T. Burkey. 2,612,861, Oct. 7.
Fish lure. H. A. Kuehnel. 2,612,717, Oct. 7.
Fishing apparatus. A. A. Kruze. 2,612,712, Oct. 7.
Fishing device, Automatic. G. M. Jenkins. 2,612,713, Oct. 7.
Fishing line oiling, greasing, and drying reel. J. K. McKelvey. 2,613,048, Oct. 7.
Fishing lure. H. A. Hedland. 2,612,716, Oct. 7.
Fishing reel. D. A. Kester. 2,613,045, Oct. 7.
Fishing reel. B. F. Redding. 2,613,046, Oct. 7.
Fishing reel. J. J. Zetts. 2,613,044, Oct. 7.
Fishing reel seat. J. C. Coleman. 2,612,714, Oct. 7.
Flame sensitive fuel cutoff device. C. A. Cobb. 2,612,946, Oct. 7.
Flexible conduit joint. J. S. Alford. 2,613,087, Oct. 7.
Flexible hose. C. P. Krupp. 2,612,910, Oct. 7.
Flight indicating system for dirigible craft. S. Kellogg, 2nd. 2,613,350, Oct. 7.
Float operated switch. A. T. McNea. 2,613,294, Oct. 7.
Floating cooling device for bulk liquids. P. Minghetti. 2,612,762, Oct. 7.
Fluid-actuated reciprocating shower. S. Mahon. 2,612,876, Oct. 7.
Fluid dispenser. G. F. Kraus. 2,613,108, Oct. 7.
Fluid gasket sealing composition. C. M. White. 2,613,161, Oct. 7.
Fluid motor. R. Deibel. 2,612,874, Oct. 7.
Fluid power conversion apparatus. J. G. Walter. 2,612,873, Oct. 7.
Fluid pressure control apparatus. B. R. Nichols. 2,612,838, Oct. 7.
Fluid pressure-operated piston assembly. A. E. Weigele. 2,612,871, Oct. 7.
Fluid pressure regulator. W. J. Jacobsson. 2,612,728, Oct. 7.
Fluid processing apparatus. P. L. Pendleton. 2,612,860, Oct. 7.
Folding and gathering means for books. E. K. Smith, Jr. 2,613,077, Oct. 7.
Form issuing apparatus. W. W. Harper and L. E. Gilbert. 2,612,976, Oct. 7.
Form tie for wall structures. J. L. Bracewell. 2,612,674, Oct. 7.
Forming head for bread roll machines. J. Marziani. 2,612,850, Oct. 7.
Forming roll machine. P. P. M. Dubosclard. 2,612,934, Oct. 7.
Forming welding projections on nuts. E. E. Howe. 2,612,647, Oct. 7.
Free-flowing starch esters. C. G. Caldwell. 2,613,206, Oct. 7.
French seaming attachment for sewing machines. R. J. Saller. 2,612,855, Oct. 7.
Frequency modulation system. E. K. Stodola. 2,613,348, Oct. 7.
Fuel injection pump. F. C. Reggio. 2,612,884, Oct. 7.
Fuel injection pump. G. Steven and R. R. Fruehauf. 2,612,842, Oct. 7.
Fuel injection system. R. A. Lasley. 2,612,840, Oct. 7.
Fuel treating device. W. M. Malouf. 2,613,143, Oct. 7.
Fulcrum type bottle cap lifter. R. C. Dreier. 2,612,800, Oct. 7.
Furfural recovery. C. E. Ockert. 2,613,174, Oct. 7.
Furnace: *See*—
Hot-air heating furnace.
Furnace for the recovery of metal oxides. H.-J. Hellwig. 2,613,137, Oct. 7.
Furniture made of laminations or sections. L. G. Simjian. 2,612,942, Oct. 7.
Garbage can and support therefor. D. R. Atkinson. 2,613,010, Oct. 7.
Garment and brassière, Combination. H. Robins. 2,612,642, Oct. 7.
Garment closure. F. Perry. 2,612,643, Oct. 7.
Gas burner. R. C. Wright. 2,612,943, Oct. 7.
Gas filled thyratron. H. D. Doolittle. 2,613,336, Oct. 7.
Gas manifold and valve for analyzing gas mixtures. L. V. Guild. 2,613,082, Oct. 7.
Gas-solid contact reactor. W. van Loon. 2,613,138, Oct. 7.
Gasket cutter. W. Wagner. 2,612,686, Oct. 7.
Gauge: *See*—
Chain saw gauge.
Turn gauge.
Gear: *See*—
Epicyclic gear.
Gear tooth lead testing device. G. C. Razor. 2,612,701, Oct. 7.
Gem vise. J. J. Lea. 2,612,735, Oct. 7.
Geophysical prospecting. F. W. Lee. 2,613,247, Oct. 7.
Glass setting device. J. P. Pearse. 2,612,663, Oct. 7.
Goggles, Antifogging and antifrosting. E. D. Palmes. 2,612,640, Oct. 7.
Goggles structure, Closed. W. R. Christensen and C. E. Cross. 2,612,639, Oct. 7.
Governor for gas turbines automatically modified by fuel pressure, Semiisochronous. A. W. Orr, Jr. 2,612,944, Oct. 7.
Grain combine. S. C. Heth. 2,612,742, Oct. 7.
Grapple. H. K. Bushnell, Jr. 2,613,103, Oct. 7.
Grain unloading machine. A. P. W. Buck. 2,613,003, Oct. 7.

Grease shield for antifriction bearings. F. O. Hickling. 2,613,090, Oct. 7.
Grinding machine. J. H. Twombly. 2,612,733, Oct. 7.
Gun mount. Q. C. Johnson. 2,612,819, Oct. 7.
Gyroscopic gun sight. H. K. Weiss. 2,612,692, Oct. 7.
Hacksaw. F. F. Williams. 2,612,920, Oct. 7.
Hammer, Pneumatic drop. R. P. Fitzgerald. 2,612,868, Oct. 7.
Hammer with rectifier in handle, Electric. C. S. Weyandt. 2,613,241, Oct. 7.
Handbag. S. Starr. 2,612,925, Oct. 7.
Hatch construction for railway cars. J. S. Lundvall. 2,612,849, Oct. 7.
Hearing aid, Spectacle type. A. M. Scalfe. 2,613,282, Oct. 7.
Heat-treating strip. C. H. Verwohlt. 2,613,070, Oct. 7.
Heater: *See*—
Vehicle engine heater.
Vehicular heater.
Heater and tray, Radiant. W. La Mirand. 2,613,308, Oct. 7.
Heater for internal-combustion engines. T. W. Cox. 2,612,885, Oct. 7.
Heating apparatus. V. D. Thurston. 2,613,312, Oct. 7.
Helical gear pump with nonrigid casing. F. C. Byram and G. H. Zimmer, Jr. 2,612,845, Oct. 7.
Helicopter rotor construction. P. M. Lewis. 2,612,962, Oct. 7.
High-voltage regulator. W. H. Nelson. 2,613,344, Oct. 7.
Holder: *See*—
Cue holder.
Film holder.
Line holder.
Paper roll holder.
Towel or cloth holder.
Holding means for loom bushings. W. W. Usry. 2,612,911, Oct. 7.
Hole spacing and centering device. H. Timpner. 2,612,793, Oct. 7.
Hook latch operating mechanism. C. M. Roberson. 2,613,101, Oct. 7.
Hose coupling. H. A. Malman. 2,613,089, Oct. 7.
Hot-air heating furnace. J. D. Harsh. 2,612,890, Oct. 7.
Household implement for comminuting foodstuff. R. C. Roi. 2,612,923, Oct. 7.
Housing for antifriction bearings. J. Lanvermeyer. 2,613,120, Oct. 7.
Housing for apparatus installed in subaqueous cables. A. H. Roche and F. O. Roe. 2,613,284, Oct. 7.
Housing structure for use either as an incubator or brooder. G. H. Wade, Sr. 2,612,863, Oct. 7.
Humidity indicator. A. M. Gurewitsch. 2,613,302, Oct. 7.
Hydraulic brake fluid warning device. F. J. Marks. 2,613,293, Oct. 7.
Hydraulic coupling valve. C. A. Strayer. 2,612,872, Oct. 7.
Hydraulically operated engine-propeller control. D. A. Richardson. 2,612,958, Oct. 7.
Hydraulically operated propeller pitch control. C. L. Muzzey. 2,612,960, Oct. 7.
Hydroxypentachlorodimethoxymethanotetrahydroindane. W. J. Croxall and J. W. Dawson. 2,613,229, Oct. 7.
Hydroxylation of olefinic compounds. D. P. Young. 2,613,223, Oct. 7.
Ignition system for internal-combustion and like engines. E. G. Mackay. 2,612,887, Oct. 7.
Image recording apparatus. H. E. Haynes. 2,613,264, Oct. 7.
Imidazolidinethiones. M. D. Hurwitz and R. W. Auten. 2,613,211, Oct. 7.
Imidazolidone derivatives. M. D. Hurwitz and R. W. Auten. 2,613,212, Oct. 7.
Inclined underfeed riveting machine with magnetic anvil. G. B. Cranor. 2,613,009, Oct. 7.
Indicator: *See*—
Humidity indicator.
Indicator and controller for aircraft, Blind landing. O. E. Esval. 2,613,050, Oct. 7.
Indicator for alternating electric current transformers. S. A. Stevens. 2,613,260, Oct. 7.
Indicator for frequency shift telegraphy, Tuning. B. A. Trevor. 2,613,271, Oct. 7.
Indicator for precision machine tools, Adjustment. L. J. Mathson. 2,612,697, Oct. 7.
Ingot casting mold. J. Gombosh. 2,612,667, Oct. 7.
Inhibiting formation of self-propagating polymers during distillation by use of water-soluble nitrites. L. H. Johnstone, L. A. Webber, and J. J. Costolow. 2,613,175, Oct. 7.
Inspection apparatus. L. W. Boley. 2,612,677, Oct. 7.
Instrument, Cabin pressure control. B. E. Del Mar. 2,612,828, Oct. 7.
Instrument, Optical. O. R. Engelmann. 2,612,893, Oct. 7.
Instrument, Testing. A. T. S. Babb. 2,613,249, Oct. 7.
Interlocked electric switch. J. Bierenfeld. 2,612,789, Oct. 7.
Iron: *See*—
Steam iron.
Jetty and like structure. C. Wets and A. Paduart. 2,612,758, Oct. 7.
Jig for treating materials of different specific gravities. E. Harvengt. 2,612,997, Oct. 7.
Joint: *See*—
Flexible conduit joint.
Pipe joint.
Keto-acid soap greases. L. W. Sproule, W. C. Pattenden, and L. F. King. 2,613,182, Oct. 7.
Keyboard construction. L. B. Greenleaf and E. F. Swanson. 2,612,812, Oct. 7.
Key operated electric switch. W. E. Brown. 2,613,288, Oct. 7.
Kicking animal target. E. P. Dow. 2,613,080, Oct. 7.
Kink eliminator for handsaws. J. L. Phillips. 2,612,919, Oct. 7.
Label for re-usable bottles. A. I. Totten, Jr. 2,613,168, Oct. 7.
Labeling apparatus. C. Ouellette. 2,613,008, Oct. 7.
Lag fuse. G. F. Laing. 2,613,297, Oct. 7.
Lamp. G. F. Embshoff and G. Sperti. 2,613,328, Oct. 7.
Lapping method and apparatus. T. G. Lewis. 2,612,736, Oct. 7.
Latch bolt unit, Reversible. E. L. Schlage. 2,613,094, Oct. 7.
Lawn trimmer. G. F. McKay. 2,612,741, Oct. 7.
Level tube support. R. L. Ruckman. 2,612,704, Oct. 7.
Lid hinge, Deck. J. H. Roethel. 2,612,651, Oct. 7.
Lifter: *See*—
Fulcrum type bottle cap lifter.
Wheel and tire lifter.
Light reflector for vehicle bodies, Detachable. W. W. Parsons. 2,613,104, Oct. 7.
Limiting polymerization. J. B. Niederl. 2,613,230, Oct. 7.
Line holder. K. E. and G. W. Schneider. 2,612,695, Oct. 7.
Linoleum compositions. C. G. Elliott. 2,613,163, Oct. 7.
Lipstick, Cartridge. C. H. Braselton. 2,612,990, Oct. 7.
Lipstick, Nonretractable. C. H. Braselton. 2,612,991, Oct. 7.
Liquid dispensing brush and valve structure therefor. A. F. Banks. 2,612,649, Oct. 7.
Liquid fuel measuring and delivery device. G. R. Hubbard. 2,612,678, Oct. 7.
Lock: *See*—
Door lock.
Locking plate adjusting means for vise beams. R. O. Heinrich. 2,612,805, Oct. 7.
Low-pressure flash evaporator. E. P. Worthen and F. S. Barbour. 2,613,177, Oct. 7.
Lubricating oil containing a copolymer of an ester of an unsaturated acid and a N-hydrocarbon amide of an unsaturated acid. W. E. Catlin. 2,613,184, Oct. 7.
Machine brush, Dynamoelectric. R. T. Lundy. 2,613,239, Oct. 7.
Machine for grinding or refining paint, cellulose, chocolate, and similar substances. J. McIntyre. 2,613,037, Oct. 7.
Machine for operating in rock, coal, and the like. E. W. Hurd. 2,613,061, Oct. 7.
Machine for removing metallic elements from flexible strips. W. R. McDaniel. 2,612,949, Oct. 7.
Machine for straightening and cutting wire. O. R. Brekle. 2,612,912, Oct. 7.
Magnetic recording heads, Making. M. Camras. 2,612,681, Oct. 7.
Magnetic system. H. Spodig. 2,613,246, Oct. 7.
Magnetized valve keeper tool. G. J. Gilbert. 2,612,799, Oct. 7.
Magneto ignition system for internal-combustion engines. E. G. Mackay. 2,612,886, Oct. 7.
Making a cold-mixing food starch powder. A. A. Halden. 2,613,150, Oct. 7.
Making and assembling sand molds. C. N. Hutchison. 2,612,668, Oct. 7.
Making candles, Method and apparatus for. P. M. Poulsen. 2,612,657, Oct. 7.
Making plastic tubing, Method of and apparatus for. G. A. Lyon. 2,612,656, Oct. 7.
Manually operated backwater sewer valve. T. Slapnicher. 2,613,055, Oct. 7.
Margin guide for tele-autographic apparatus. T. I. Ress. 2,613,266, Oct. 7.
Marine engine water cooler. T. Mairs. 2,612,858, Oct. 7.
Mass spectrometry. G. D. Perkins. 2,613,323, Oct. 7.
Mass spectrometry. G. D. Perkins and C. F. Robinson. 2,613,324, Oct. 7.
Material-controlled article transfer mechanism. W. H. Alden, Jr. 2,612,981, Oct. 7.
Material-handling mechanism. A. W. Oehler. 2,612,980, Oct. 7.
Material unrolling attachment for nap-raising machines. S. O. Sidore. 2,612,676, Oct. 7.
Measuring resistivity of earth samples. H. L. Bilhartz and H. F. Dunlap. 2,613,250, Oct. 7.
Mechanism for the intermittent driving of cinematographic films. J. Thévenaz. 2,612,816, Oct. 7.
Message numbering device. R. H. Halvorsen. 2,613,265, Oct. 7.
Meter and bank therefor, Coin controlled. W. P. Gallagher, A. D. Stolle, and D. E. Schroeder. 2,612,975, Oct. 7.
Method of and machine for making and filling packages for fluent substances. L. L. Salfisberg. 2,612,738, Oct. 7.
Methyl cellulose-modified phenolic adhesive and plywood product. C. N. Cone. 2,613,167, Oct. 7.
Methylene-bis-2-imidazolidones. M. D. Hurwitz and R. W. Auten. 2,613,210, Oct. 7.
Mica splitting apparatus. M. D. Heyman. 2,612,889, Oct. 7.
Milk can cover. R. B. Walsh and R. J. Sims. 2,613,014, Oct. 7.

Mill: *See*—
Cane mill.
Vibratory and rotary ball mill.
Mining machine, bit and block. A. O. Brnestle. 2,613,069, Oct. 7.
Mixed borides. H. R. Montgomery. 2,613,154, Oct. 7.
Mixture of phthalocyanine vat dyes and making the same. W. B. McCormack and F. B. Stilmar. 2,613,129, Oct. 7.
Model jet airplane. W. L. Tenney. 2,612,722, Oct. 7.
Modulator for radiosonde apparatus. W. Todd. 2,613,347, Oct. 7.
Mold: *See*—
Ingot casting mold.
Molten glass level control apparatus. J. S. Light and E. V. De Carli. 2,613,002, Oct. 7.
Mortising attachment for drill presses. W. N. Moss. 2,612,915, Oct. 7.
Motor: *See*—
Fluid motor. Plural voltage motor.
Motor. J. R. Olshei and R. Deibel. 2,613,121, Oct. 7.
Motor vehicle fender and fender shield construction. J. Haltenberger. 2,613,085, Oct. 7.
Motor with split pole pieces, Electric. H. A. Shumaker and E. P. Turner. 2,613,242, Oct. 7.
Mounting and control means magneto for engines. E. C. Kiekhaefer. 2,612,883, Oct. 7.
Mounting means for tubular members. J. Baum. 2,613,051, Oct. 7.
Nasal cleansing device. S. A. Akins. 2,612,894, Oct. 7.
Navigation system, including acceleration integrating means. P. G. Hansel. 2,613,071, Oct. 7.
Nesting box. F. J. Kummeth. 2,612,864, Oct. 7.
Nozzle structure for effecting striated flow of combustion gases. R. H. Goddard. 2,612,746, Oct. 7.
Oil burner for tobacco curing barns. C. C. Granger. 2,612,945, Oct. 7.
Opener, Egg. A. G. Tomola. 2,612,921, Oct. 7.
Operating mechanism for vending machines. H. G. Wells. 2,613,122, Oct. 7.
Optical system for oscillographs. K. R. Geiser. 2,613,127, Oct. 7.
Ore jigger. I. L. Patterson. 2,612,996, Oct. 7.
Ornament, Convoluted. C. A. Herold and B. Lee. 2,613,139, Oct. 7.
Ornament, Slip-on. H. A. Hart. 2,613,140, Oct. 7.
Oxidation of phosphorus with steam. K. L. Elmore. 2,613,134, Oct. 7.
Oxidation of phosphorus with steam. J. F. Shultz. 2,613,135, Oct. 7.
Oyster chock. L. M. Labat. 2,612,653, Oct. 7.
Package for frozen foods and the like. W. A. Ringler. 2,613,025, Oct. 7.
Package forming machine. F. E. Bickford. 2,612,822, Oct. 7.
Packaging paperbags and the like, Method and apparatus for. W. P. Thielens. 2,612,737, Oct. 7.
Packer. C. K. Morgan, L. D. Meddick, and J. S. McKenna. 2,612,953, Oct. 7.
Paper roll holder. L. O. Cantrell. 2,613,041, Oct. 7.
Pen, fountain. M. S. Baker and H. H. Zodtner. 2,612,867, Oct. 7.
Phonograph record. P. C. Doyle and K. H. Rudd. 2,613,152, Oct. 7.
Phonograph, Record changer. B. N. Fisher. 2,613,081, Oct. 7.
Phosphoramides, Making. M. Paulshock. 2,613,224, Oct. 7.
Photoelectric cells, Manufacturing. L. J. M. J. Dubar and R. P. Millet. 2,613,301, Oct. 7.
Pipe joint. G. J. Burke. 2,613,088, Oct. 7.
Pipe welding machine. C. A. Babbitt. 2,613,303, Oct. 7.
Piston packing. W. E. O'Shei. 2,612,875, Oct. 7.
Piston weighing and assorting machine. W. R. Kahle and E. R. Johnson. 2,612,995, Oct. 7.
Pitcher and container for paper milk containers, Combination. R. J. Gorey. 2,612,765, Oct. 7.
Pivoted device. A. K. Seemann. 2,613,119, Oct. 7.
Plate blasting machine. W. I. Gladfelter and R. B. Huyett. 2,612,731, Oct. 7.
Pliers. C. L. Ohman. 2,612,806, Oct. 7.
Plug: *See*—
Tire repair plug.
Plug or septum for electrolytic cells. M. Eppley. 2,613,234, Oct. 7.
Plural camera television transmitter with electronic wipe-out control. E. D. Hilburn. 2,613,263, Oct. 7.
Plural voltage motor. R. Ober. 2,613,343, Oct. 7.
Pneumatic control apparatus. R. P. Roetter. 2,612,870, Oct. 7.
Pneumatic press. H. Palmleaf. 2,612,951, Oct. 7.
Pneumatically operated elevator ball. C. M. Roberson. 2,613,102, Oct. 7.
Polishing composition. H. Honig. 2,613,192, Oct. 7.
Polyethylene air filter. W. H. Nicol. 2,612,966, Oct. 7.
Polyhalogenoalkenyl compounds, Preparing. E. C. Ladd and M. P. Harvey. 2,613,221, Oct. 7.
Polymeric plasticizers. H. B. Knight. 2,613,157, Oct. 7.
Polymerizing chlorotrifluoroethylene. G. F. Roedel. 2,613,202, Oct. 7.
Polymerizing tetrafluoroethylene. R. L. Myers. 2,613,203, Oct. 7.
Potato separator. S. J. Levesque. 2,612,993, Oct. 7.
Powdered pigment compositions. W. T. Walton and A. B. Holton. 2,613,158–60, Oct. 7.
Power actuated overload release clutch. N. R. Krause. 2,612,974, Oct. 7.
Preselector tuning mechanism. B. Howard. 2,613,321, Oct. 7.
Press: *See*—
Pneumatic press. Transfer molding press.
Pressure fluid actuated operator for pipe line valves. H. J. Shafer. 2,612,906, Oct. 7.
Priming means for centrifugal pumps. A. L. Grisé. 2,612,844, Oct. 7.
Printer, Tape. J. H. Drillick. 2,613,262, Oct. 7.
Printing telegraph system. J. D. Durkee. 2,613,267, Oct. 7.
Probe supporting apparatus for wind tunnels. H. W. Klas. 2,612,776, Oct. 7.
Processing meat products. J. S. Forsyth. 2,613,151, Oct. 7.
Producing a plant food and plant stimulant, and utilization thereof. W. L. Owen and A. J. Isacks. 2,613,147, Oct. 7.
Product of reaction of phosphorus sulfide, and hydrocarbon, with guanidine carbonate. M. W. Hill. 2,613,205, Oct. 7.
Propeller having adjustable blades. C. Kapsenberg. 2,612,961, Oct. 7.
Propeller regulator assembly. W. J. Blanchard, J. F. Haines, T. B. Martin, and C. S. J. MacNeil. 2,612,959, Oct. 7.
Propelling and steering mechanism. B. I. Billman and P. Slack. 2,612,859, Oct. 7.
Propulsion wheel. R. H. Knipping. 2,612,957, Oct. 7.
Protecting hydraulic pressure responsive devices from the effects of fluid shock. V. W. Peterson and O. J. Maha. 2,612,756, Oct. 7.
Protective signal device for automobiles. A. Azano. 2,613,258, Oct. 7.
Pulse jet mount. W. L. Tenney and C. B. Marks. 2,612,748, Oct. 7.
Pump: *See*—
Fuel injection pump. Variable-delivery pump.
Pump. E. L. Midgette. 2,612,837, Oct. 7.
Pump testing apparatus. E. M. Greer. 2,612,777, Oct. 7.
Pump valve. A. R. Maier. 2,613,054, Oct. 7.
Purging head for radiator core section. T. W. Huffman. 2,613,064, Oct. 7.
Purification of tetrahydrophthalimides with alkaline earth metal hydroxides. A. R. Kittleson. 2,613,213, Oct. 7.
Push-button multiple switch. P. P. Pattyn. 2,613,290, Oct. 7.
Radiator back flush and cleaning booth. E. G. Webb. 2,612,899, Oct. 7.
Radiator, Cooling. M. Didier. 2,613,065, Oct. 7.
Radio navigation device. G. L. Lang. 2,613,351, Oct. 7.
Radio navigation system. S. Kellogg, 2nd. 2,613,352, Oct. 7.
Radio navigation system for dirigible craft. W. Palmer. 2,613,339, Oct. 7.
Ratchet wrench spinner. R. R. Hunt. 2,612,807, Oct. 7.
Razor. W. B. Tully. 2,612,685, Oct. 7.
Razor, Hair trimming type. W. M. Mansfield. 2,612,684, Oct. 7.
Recorder, Velocity. J. Brown. 2,613,125, Oct. 7.
Recording apparatus for recording gas concentrations in the atmosphere. A. O. Beckman and J. D. McCullough. 2,613,126, Oct. 7.
Recording of telephone numbers, Automatic. R. F. Stehlik. 2,613,274, Oct. 7.
Recording system for automatic telephony, Automatic call. R. F. Stehlik. 2,613,275, Oct. 7.
Recovering a desired soluble salt from a solid mixture containing same. L. D. Anderson. 2,613,133, Oct. 7.
Reducing the corrosion of ferrous metals by ammoniacal solution and corrosion inhibitor therefor. M. D. Barnes, B. L. Embrey and R. E. Koons. 2,613,131, Oct. 7.
Reel: *See*—
Fishing line oiling, greasing, and drying reel. Fishing reel.
Refractometer, Differential. L. G. Glasser. 2,612,814, Oct. 7.
Refractory insulating brick and manufacture. W. L. Stafford. 2,613,153, Oct. 7.
Refrigerated case. R. C. Hilker. 2,612,761, Oct. 7.
Refrigerator door construction. J. A. Semple. 2,612,661, Oct. 7.
Register transfer mechanism. F. W. Pfleger. 2,613,033, Oct. 7.
Regulator: *See*—
Fluid pressure regulator. High-voltage regulator.
Releasable implement connection. T. L. Baggette and A. R. Copithorne. 2,612,827, Oct. 7.
Remote-control selector device. P. M. Fuller. 2,612,710, Oct. 7.
Removing organic fluorides from hydrocarbons. E. J. Janoski. 2,613,232, Oct. 7.
Resistance comparator. J. E. Ebert. 2,613,251, Oct. 7.
Resol-alkyd resin product. H. Hönel and H. Manzano. 2,613,198, Oct. 7.
Resonant pulse jet device with restricted flow passage. W. L. Tenney and C. B. Marks. 2,612,749, Oct. 7.

Ring: *See*—
Trap chain ring.
Ringing and regulating device for carrier current transmission systems. J. L. Hurault. 2,613,279, Oct. 7.
Rocket having adjustable discharge passage. L. A. Skinner. 2,612,747, Oct. 7.
Roll pull tab. T. W. Tinkham. 2,612,992, Oct. 7.
Rotary disk valve. W. J. Hughes. 2,613,056, Oct. 7.
Rotary hydraulic torque converter. J. F. Swift. 2,612,754, Oct. 7.
Rotary hydraulic torque converter. B. Szczeniowski. 2,612,755, Oct. 7.
Rotary internal-combustion engine. R. W. Hibbard. 2,612,879, Oct. 7.
Rotary internal-combustion engine. A. O. Wilson. 2,612,878, Oct. 7.
Rotary masher. R. C. Roi. 2,612,922, Oct. 7.
Rotatable combustion chamber. R. H. Goddard. 2,612,750, Oct. 7.
Safety device for woodworking machines. F. P. Reynolds. 2,612,914, Oct. 7.
Safety ground clamp. O. W. S. Frear. 2,613,243, Oct. 7.
Safety sealing device for refillable containers. M. E. Taylor and H. F. Miller. 2,613,012, Oct. 7.
Sawmill with carriage traveling over husk. Portable. A. J. Bach. 2,612,913, Oct. 7.
Scaffold connection. R. E. Hagan. 2,613,114, Oct. 7.
Scale, Weighing. L. D. Singleton. 2,613,073, Oct. 7.
Screen grid structure for electron discharge tubes. J. L. H. Jonker and A. J. W. M. van Overbeek. 2,613,331, Oct. 7.
Screen printing machine for textiles. J. I. Marek and L. Steinberg. 2,612,835, Oct. 7.
Sent: *See*—
Fishing reel seat.
Seal. W. M. Brooks. 2,613,095, Oct. 7.
Seal and swivel mounting. J. R. Snyder and J. F. Norton. 2,613,057, Oct. 7.
Sealing openings in well casings and earth formations. A. C. Hamilton, Jr. 2,612,954, Oct. 7.
Sealing strip. L. C. Helmgartner, R. J. Bush and P. E. Clingman. 2,612,972, Oct. 7.
Selective separation of acidic gases. A. J. L. Hutchinson. 2,613,132, Oct. 7.
Separator: *See*—
Embalmer's tissue separator. Potato separator.
Setter for organs, Combination. E. L. Kent. 2,612,810, Oct. 7.
Sewage treating process. W. H. Green and A. A. Kalinske. 2,613,180, Oct. 7.
Shaft journal and drive unit, Combined. J. D. Christian. 2,612,788, Oct. 7.
Sheet materials containing fibers, cork particles, and a rubberlike binder, Preparation of. D. A. Feigley, Jr. 2,613,190, Oct. 7.
Shield, Safety. C. W. Hansen. 2,612,763, Oct. 7.
Shingle collecting and bundling machine. W. H. Alden, Jr. 2,612,983, Oct. 7.
Shovel attachment for crawler tractors. S. F. Bradford. 2,613,006, Oct. 7.
Signal for mailboxes, Mail delivery. J. J. Joyce. 2,613,031, Oct. 7.
Silver plating. H. Wolfson and B. Thomson. 2,613,179, Oct. 7.
Sleeve compressing tool. W. A. Vinson. 2,612,932, Oct. 7.
Soap container. J. F. Murphy. 2,612,650, Oct. 7.
Socket casing and switch structure. C. L. Dupuis and A. Hastie. 2,613,292, Oct. 7.
Soldering unit. W. A. Vinson. 2,612,856, Oct. 7.
Solutions of acrylonitrile polymers reacted with a trialkyl amine. G. E. Ham. 2,613,196, Oct. 7.
Speech wave analysis. M. Kalfalan. 2,613,273, Oct. 7.
Speed control governing apparatus. H. Carson and C. L. Muzzey. 2,613,072, Oct. 7.
Spindle and handle connection. G. K. E. Kleeberg. 2,613,098, Oct. 7.
Splicing device. W. M. Dice, Jr. 2,613,042, Oct. 7.
Splitting machine for making shakes. J. G. Bailey. 2,612,916, Oct. 7.
Spool with removable head. J. B. Hawley. 2,613,049, Oct. 7.
Sprayable polytetrafluoroethylene aqueous suspensoids containing an organic liquid. L. K. Osdal. 2,613,193, Oct. 7.
Spraying apparatus. F. Freund and I. Kreismann. 2,613,111, Oct. 7.
Spring-biased autogiro rotor blade. R. Dorand. 2,612,963, Oct. 7.
Sprinkler, Hand-carried. A. Spingarn. 2,613,110, Oct. 7.
Steady rest. J. U. Shager. 2,612,809, Oct. 7.
Steam iron. K. B. Dafforn and R. I. Huffman. 2,612,709, Oct. 7.
Sterilizer. R. L. Jewell and G. J. Dyckes. 2,613,130, Oct. 7.
Stove or furnace for heating water. R. G. Cubitt. 2,612,877, Oct. 7.
Strap fastening tool. B. M. Craig. 2,612,804, Oct. 7.
Strap fastening tool. M. J. McAneny. 2,612,802–03, Oct. 7.
Stress-strain testing, Method and apparatus for. C. M. Zener and D. Van Winkle. 2,612,774, Oct. 7.
Strike. A. Schoepe. 2,613,096, Oct. 7.
Stub axle or the like hinged assembly. K. R. Funnell. 2,613,091, Oct. 7.
Submergible drilling barge. J. T. Hayward. 2,612,759, Oct. 7.
Suction and flushing massage device. D. Beatman. 2,612,892, Oct. 7.
Sulfurized additives for lubricating compositions. A. D. Kirshenbaum and J. M. Boyle. 2,613,183, Oct. 7.
Superregenerative system for receiving angular-velocity-modulated wave signals. D. Richman. 2,613,315, Oct. 7.
Supersonic test device. R. A. McConnell. 2,612,772, Oct. 7.
Support: *See*—
Level tube support.
Typewriter carriage control means support.
Support for finger surgery, Adjustable. M. C. Smith. 2,612,891, Oct. 7.
Supported H_3PO_4 catalyst, Preparation of a. J. M. Mavity. 2,613,187–8, Oct. 7.
Surface treatment of magnesium and magnesium alloy articles. E. F. Fischer. 2,613,165, Oct. 7.
Surgical drainage collection belt. R. B. Magee. 2,612,895, Oct. 7.
Swing. W. M. Bielby. 2,612,935, Oct. 7.
Swirling and mixing sipping straw. P. L. Hartnett. 2,613,107, Oct. 7.
Switch: *See*—
Altimeter switch. Push-button multiple switch.
Float operated switch.
Interlocked electric switch.
Key operated electric switch.
Switch for convertible top automobiles, Rain-controlled. W. R. Stone. 2,613,295, Oct. 7.
Switching apparatus for electric cooking appliances. R. O. Warner. 2,613,289, Oct. 7.
Swivel hitch for earthworking implements. M. L. Williams. 2,612,826, Oct. 7.
Synchronizing means for multimotored airplanes. T. A. Banning, Jr. 2,612,956, Oct. 7.
Synthesis of chloromethylated haloalkyl thiophenes. H. Pines. 2,613,214, Oct. 7.
System for using overtone activity of piezoelectric crystals. A. R. Panetta. 2,613,320, Oct. 7.
Table drive connection, Rotary. C. R. Trahan. 2,613,060, Oct. 7.
Tank construction, Welded. L. M. Keating. 2,613,015, Oct. 7.
Taper turning attachment for turret lathes. R. E. Dow. 2,612,680, Oct. 7.
Telephone switchboard with interlocks, Cordless. L. Micha. 2,613,281, Oct. 7.
Telephone system. M. den Hertog. 2,613,277, Oct. 7.
Telephone system. R. F. Stehlik. 2,613,278, Oct. 7.
Television photographic device. W. F. Kroemmelbein, Jr. 2,612,824, Oct. 7.
Television receiving apparatus. E. W. Bull. 2,613,333, Oct. 7.
Template, Adjustable. E. E. Frisk. 2,612,706, Oct. 7.
Template cutting machine. W. Kirkman and G. J. Barnett. 2,612,689, Oct. 7.
Tertiary aminomethylbenzenes. J. O. Van Hook and W. J. Croxall. 2,613,208, Oct. 7.
Thermal insulation. G. E. Gronemeyer. 2,613,166, Oct. 7.
Thermometer, Resistance. E. A. De Bruyne. 2,612,780, Oct. 7.
Thermoplastic adhesive compositions. R. C. McGaffin and A. G. Battaglia. 2,613,156, Oct. 7.
Thermoplastic adhesives. R. G. McGaffin and A. G. Battaglia. 2,613,191, Oct. 7.
Thermoresponsive coupling for differential pressure registering mechanism. H. J. Evans. 2,612,781, Oct. 7.
Thermostat. C. E. Armstrong. 2,613,298, Oct. 7.
Thermostatic oil cooler control with surge preventing valve. C. A. Weise. 2,613,034, Oct. 7.
Three-hinged arch truss. K. W. Fuge. 2,612,854, Oct. 7.
3-trichloromethylsulfenyl-5-aralkylidene-2,4-thiazolidinediones. C. Lo, E. Y. Shropshire and W. J. Croxall. 2,613,207, Oct. 7.
Thrust measuring device. A. B. Lakey. 2,612,775, Oct. 7.
Time and humidity controlled fluid dispensing system. P. J. Miano. 2,612,901, Oct. 7.
Time division radiophone system, Multiplex. J. H. Homrighous. 2,613,276, Oct. 7.
Timing device, Race track. I. M. Malott and H. R. Crawford. 2,612,948, Oct. 7.
Tire casing with noiseless tread. F. E. Buddenhagen. 2,612,928, Oct. 7.
Tire chain tightener. H. St. Pierre. 2,612,670, Oct. 7.
Tire inflating means. S. E. Orlicki, Jr. 2,612,931, Oct. 7.
Tire repair plug. P. E. Hawkinson. 2,612,930, Oct. 7.
Tire, Tractor guide. W. N. Yeggy. 2,612,929, Oct. 7.
Tool: *See*—
Electrically heated paint removing tool. Sleeve compressing tool.
Magnetized valve keeper tool. Strap fastening tool.
Tool for floriculture, horticulture, and turf culture, Forming and cutting. E. J. Casey. 2,612,725, Oct. 7.

Torpedo hull. L. Jones. 2,612,857, Oct. 7.
Torsional vibration pickup. R. H. Beadle. 2,612,773, Oct. 7.
Towel or cloth holder. D. E. Moore. 2,613,000, Oct. 7.
Towing clayware. J. Walley and J. A. Johnson. 2,612,729. Oct. 7.
Toy, Educational. L. Amsel. 2,612,708, Oct. 7.
Track-laying tractor. H. V. Tutton. 2,613,115–16, Oct. 7.
Tractor speed transmission. H. L. Block and L. G. Smith. 2,612,783, Oct. 7.
Transfer molding press. G. B. Dayre. 2,612,658, Oct. 7.
Transfer of materials. A. Crompton. 2,613,005, Oct. 7.
Transmission. R. J. Miller, C. H. Garmager and G. E. Whelpley. 2,612,791, Oct. 7.
Transmission. W. P. Schmitter. 2,612,786, Oct. 7.
Trap: *See*—
  Animal trap. Backfire trap.
Trap chain ring. S. E. Shilts. 2,612,720, Oct.7.
Treatment of glyceride oils. K. F. Mattil. 2,613,215, Oct. 7.
Treatment of oily waste water. W. H. Green and A. A. Kalinske. 2,613,181, Oct. 7.
Trichloroacetic acid and derivatives, Manufacture of. C. M. Eaker. 2,613,220, Oct. 7.
Tube: *See*—
  Cathode-ray image converter tube.
Tube construction, Finned. J. S. Newlin. 2,613,066, Oct. 7.
Tubing spider. J. R. Martin. 2,612,671, Oct. 7.
Tumber clothes drier. W. L. Kauffman, II. 2,612,705, Oct. 7.
Turbine apparatus driven by either of two unrelated sources of air pressure. W. D. Teague, Jr. 2,612,757, Oct. 7.
Turn gauge. B. Castiglia. 2,612,703, Oct. 7.
Two-phase three-solvent concentration of antipernicious anemia factors. W. C. Jackson. 2,613,171, Oct. 7.
Type bar operating mechanism for stenographic typewriters. H. M. Von Duyke. 2,612,977, Oct. 7.
Typewriter carriage control means support. G. Prezioso. 2,612,978, Oct. 7.
Ultraviolet flashlight and energizing unit therefor. C. Weeks. 2,613,313, Oct. 7.
Ultraviolet-transmitting high-silica glasses, Making. M. E. Nordberg. 2,612,726–7, Oct. 7.
Underwater transducer. F. Massa. 2,613,261, Oct. 7.
Universal centering vise. F. Skay. 2,612,821, Oct. 7.
Unsaturated fluorine-containing alicyclic ethers, Production of. R. P. Ruh. 2,613,228, Oct. 7.
Unsaturated hydrocarbons, Producing. D. R. Blumer. 2,613,233, Oct. 7.
Unsheathed safety explosive composition. A. J. Lowe. 2,613,146, Oct. 7.
Upholstering. B. J. Naughton, Jr. 2,612,941, Oct. 7.
Utensil, Fruit-coring. P. G. Burch. 2,612,687, Oct. 7.
Vacuum neutralization of detergents. A. C. Stoneman. 2,613,218, Oct. 7.
Vacuum pump suction control. D. B. Banks. 2,613,026, Oct. 7.
Valve: *See*—
  Drain valve. Pump valve.
  Hydraulic coupling valve. Rotary disk valve.
  Manually operated backwater sewer valve.
Valve construction. D. E. Harris. 2,612,907, Oct. 7.
Valve for centralized lubricating systems, Measuring. J. T. Leonard. 2,612,967, Oct. 7.
Valve for two-cycle engines, Crankcase induction. E. C. Kiekhaefer. 2,612,882, Oct. 7.
Valve for wind instruments. F. N. Meyers. 2,612,811, Oct. 7.
Valve with shifting fulcrum, Lever actuated. D. S. Willson. 2,612,905, Oct. 7.
Variable-delivery pump. C. H. Denny. 2,612,839, Oct. 7.
Variable-speed transmission. H. E. Wiltsey. 2,612,785, Oct. 7.
Vat dyeing compositions, including a mixture of cobalt phthalocyanine dyes. F. Baumann and B. Bienert. 2,613,128, Oct. 7.
Vehicle engine heater. W. La Mirand. 2,613,307, Oct. 7.
Vehicle wheel brake. E. E. Hood. 2,612,968, Oct. 7.
Vehicular heater. H. V. Joyce. 2,612,829, Oct. 7.
Ventilating fan and mounting therefor. W. J. Lohman, Jr. 2,612,831, Oct. 7.
Venting and draining means for pumps. F. W. McComble. 2,612,846, Oct. 7.
Vertical opening Gothic arch tracing device. H. Avary. 2,612,688, Oct. 7.
Vibration transducer assembly. S. M. Bagno and S. L. Westerman. 2,613,283, Oct. 7.
Vibratory and rotary ball mill. R. S. Robinson. 2,613,036, Oct. 7.
Viscosity-stable casein adhesives. T. A. White. 2,613,155, Oct. 7.
Visual record tallying device. J. T. Caradine. 2,612,707, Oct. 7.
Voltage divider. E. H. Osterland. 2,613,345, Oct. 7.
Voltage measuring apparatus. H. Palevsky and R. K. Swank. 2,613,236, Oct. 7.
Voltmeter, Mega. C. E. Grunsky. 2,613,235, Oct. 7.
Wall mounted electric outlet. I. Brouillette. 2,613,245, Oct. 7.
Washer: *See*—
  Ceiling washer.
Washing machine provided with interlocking lid mounted vibration control means. T. R. Smith, and D. P. Combs. 2,612,766, Oct. 7.
Watchmaker's roller table jewel pin setting jig. J. Aiello. 2,612,801, Oct. 7.
Wave guide attenuator. P. B. King, Jr. 2,613,270, Oct. 7.
Weatherstrip and retainer, Combined. E. D. Scott. 2,612,665, Oct. 7.
Weather stripping for storm doors. H. W. Sidden. 2,612,664, Oct. 7.
Wedging bench clamp. E. J. Watt and A. Nelson. 2,612,917, Oct. 7.
Weed guard for artificial lures. J. E. Wadlington and R. Stinnitt. 2,612,715, Oct. 7.
Welding device. R. W. Clack. 2,613,305, Oct. 7.
Welding rod or wire. R. D. Colinet. 2,613,304, Oct. 7.
Well drilling rig. A. R. Maier and J. W. Jacoby. 2,613,059, Oct. 7.
Wheel: *See*—
  Propulsion wheel.
Wheel and tire lifter. A. R. Burch. 2,613,084, Oct. 7.
Wheel assembly, Adjustable. W. G. Spurlin and H. L. Brock. 2,613,113, Oct. 7.
Wide range ultrahigh frequency tuning cavity. H. E. S. Stockman. 2,613,269, Oct. 7.
Wind sounding device. R. J. Nicolin. 2,612,723, Oct. 7.
Window closure, Resiliently expansive. A. S. Jenks. 2,612,947, Oct. 7.
Window construction. S. M. Casey. 2,612,660, Oct. 7.
Window sash balance. H. B. Foresman. 2,613,093, Oct. 7.
Window structure. W. M. Pfaff. 2,612,662, Oct. 7.
Wire creeper. E. Wollet. 2,613,257, Oct. 7.
Wire stringing device. H. C. Thomas. 2,613,256, Oct. 7.
Woodworking plane with chip releasing means. J. P. Zaidan. 2,612,918, Oct. 7.
Wool dyestuffs. E. Beniers. 2,613,209, Oct. 7.
Workpiece area measuring machine. P. E. Morgan. 2,612,696, Oct. 7.
Wrapping machine. A. Russell. 2,612,740, Oct. 7.
Wrench with pivoted rack catch, Lever actuated pivoted outer jaw. H. W. Small. 2,612,808, Oct. 7.
X-ray contrast compositions. W. Galler. 2,613,172, Oct. 7.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 7, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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223— 30: 2,613,019
224— 42.1: 2,613,020
226— 14: 2,613,021
48: 2,613,022
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229— 28: 2,613,024
31: 2,613,025
230— 4: 2,613,026
38: 2,613,027
47: 2,613,028
114: 2,613,029
258: 2,613,030

232— 35: 2,613,031
235— 61: 2,613,032
136: 2,613,033
236— 15: Re.23,561
35.3: 2,613,034
240— 10.6: 2,613,313
11.3: 2,613,314
241— 24: 2,613,035
175: 2,613,036
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242— 23: 2,613,038
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66: 2,613,043
84.4: 2,613,044
84.5: 2,613,045
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2,613,047
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124: 2,613,049
244— 77: 2,613,050
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83.6: 2,613,327
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251— 27: 2,613,054
63: 2,613,055
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46.7: 2,613,183
51.5: 2,613,184
92: 2,613,185
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435: 2,613,187
2,613,188
253—39.15: 2,613,058
255— 19: 2,613,059
23: 2,613,060
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69: 2,613,062
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257— 1: 2,613,064
124: 2,613,065
262.2: 2,613,066
260— 2.5: 2,613,189
29.2: 2,613,191
29.3: 2,613,192

260— 29.6: 2,613,193
30.8: 2,613,194
2,613,195
32.6: 2,613,196
33.8: 2,613,197
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78.4: 2,613,201
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570.9: 2,613,226

260— 610: 2,613,227
611: 2,613,228
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613: 2,613,230
666: 2,613,231
676: 2,613,232
677: 2,613,233
261— 2: 2,613,067
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262— 33: 2,613,069
263— 2: 2,613,070
264— 1: 2,613,071
4: 2,613,072
265— 62: 2,613,073
266— 15: 2,613,074
267— 9: 2,613,075
268— 46: 2,613,076
270— 5: 2,613,077
271— 2.3: 2,613,078
273— 71: 2,613,079
102.2: 2,613,080
274— 10: 2,613,081
277— 60: 2,613,082
280— 42: 2,613,083
53: 2,613,084
153: 2,613,085
285— 90: 2,613,086
92: 2,613,087
115: 2,613,088
178: 2,613,089
286— 5: 2,613,090
287— 100: 2,613,091

292— 66: 2,613,092
76: 2,613,093
244: 2,613,094
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340: 2,613,096
341.12: 2,613,097
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293— 65: 2,613,099
294— 19: 2,613,100
82: 2,613,101
106: 2,613,103
296— 97: 2,613,104
297— 11: 2,613,105
298— 17: 2,613,106
299— 17: 2,613,107
25: 2,613,108
41: 2,613,109
91: 2,613,110
96: 2,613,111
140: 2,613,112
301— 9: 2,613,113
304— 40: 2,613,114
305— 8: 2,613,115
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308— 20: 2,613,117
22: 2,618,118
159: 2,613,119
207: 2,613,120
309— 1: 2,613,121
312— 67: 2,613,122
214: 2,613,123
313— 65: 2,613,330

313— 300: 2,613,331
315— 22: 2,613,333
27: 2,613,334
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62: 2,613,336
97: 2,613,337
318— 6: 2,613,338
16: 2,613,339
28: 2,613,340
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125: 2,613,241
211: 2,613,342
225: 2,613,343
323— 22: 2,613,344
79: 2,613,345
100: 2,613,346
332— 2: 2,613,347
343— 11: 2,613,348
100: 2,613,349
108: 2,613,350
2,613,352
109: 2,613,351
346— 49: 2,613,124
73: 2,613,125
75: 2,613,126
109: 2,613,127

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

Des.167,896: 74—1
2,612,710: 277—380
2,612,860: 134—122
2,613,004: 214—83.16
2,613,102: 214—115
2,613,121: 309—1
2,613,190: 92—21
2,613,241: 318—125
2,613,332: 315—44
2,613,350: 343—108
2,613,351: 343—109

CLASSIFICATION OF DESIGNS

D 3— 9: Des. 167,915
D 4— 3: Des. 167,890
Des. 167,891
Des. 167,892
Des. 167,893
Des. 167,894
Des. 167,895
D 9— 2: Des. 167,909

D14— 3: Des. 167,905
Des. 167,906
6: Des. 167,878
Des. 167,885
Des. 167,907
D17—10: Des. 167,904
D20— 2: Des. 167,912
D26— 7: Des. 167,903

D26—13: Des. 167,897
D33— 6: Des. 167,884
D34— 4: Des. 167,877
15: Des. 167,887
Des. 167,888
Des. 167,889
Des. 167,919
D36— 2: Des. 167,880

D44— 9: Des. 167,917
29: Des. 167,879
Des. 167,886
Des. 167,899
Des. 167,920
D47— 5: Des. 167,911
6: Des. 167,881

D47— 6: Des. 167,882
D47— 7: Des. 167,910
D58—12: Des. 167,902
26: Des. 167,916
D62— 4: Des. 167,898
D74— 1: Des. 167,896
D80— 5: Des. 167,918
D81—10: Des. 167,908

D83— 8: Des. 167,914
D86—10: Des. 167,900
D87— 3: Des. 167,883
Des. 167,901
Des. 167,913

U. S. GOVERNMENT PRINTING OFFICE: 0—1952

Condition of Applications Under Examination at Close of Business September 19, 1952

Total number of patent applications awaiting action, 96,497. Date of oldest new application, December 21, 1951; date of oldest amended application, December 20, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	1-10-52	1-11-52	1473
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-18-52	1-21-52	1193
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	2-21-52	2-21-52	1665
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	1-2-52	12-26-51	1438
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-2-52	1-2-52	1126
6. SURLE, H., Carbon Chemistry (part)	2-1-52	1-31-52	1977
7. ANDERSON, E. G. (Acting), Optics; Photography (part)	1-22-52	1-11-52	1373
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	1-22-52	1-22-52	1365
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	12-26-51	12-26-51	1452
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	1-15-52	1-16-52	1311
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	1-2-52	1-9-52	1174
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	12-24-51	12-31-51	1271
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	12-24-51	12-24-51	1165
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bonding, Misc. Processes; Assembly and Disassembly Apparatus.	1-2-52	1-2-52	1472
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	2-19-52	2-18-52	1404
16. LOVEWELL, N. N., Television, Telephony	1-11-52	1-10-52	1347
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	12-28-51	12-22-51	1332
18. KURZ, J. A., Power Plants; Speed Responsive Devices	12-28-51	12-31-51	835
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-14-52	1-4-52	1078
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	1-14-52	1-14-52	1366
21. MADER, R. C., Textiles	12-27-51	12-28-51	1307
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	1-2-52	1-2-52	1109
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	1-10-52	1-4-52	810
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	1-30-52	1-31-52	1376
25. McNAB, J. C., (Acting), Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	1-8-52	1-4-52	1399
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-4-52	1-14-52	1199
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	1-16-52	1-11-52	1374
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	12-21-51	12-24-51	1230
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	1-9-52	12-20-51	1222
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	1-30-52	1-30-52	1496
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-18-52	1-7-52	2248
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-proportioning Systems.	1-10-52	1-8-52	1235
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	12-28-51	12-26-51	1780
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	1-5-52	1-7-52	1085
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-2-52	1-4-52	1326
36. McFADYEN, A. D., Measuring and Testing	1-14-52	1-14-52	1099
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	2-1-52	1-23-52	1223
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	12-28-51	12-28-51	1588
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	1-28-52	1-28-52	1357
40. DRUMMOND, E. J., Receptacles (part); Packages	3-4-52	3-4-52	1234
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	1-23-52	1-19-52	890
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	1-26-52	1-10-52	1043

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 96,497. Date of oldest new application, December 21, 1951; date of oldest amended application, December 20, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
43. SCHWARTZ, A. C. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	1-24-52	1-16-52	1399
44. HARVEY, L. P., Beds; Chairs; Seats	1-2-52	1-2-52	1142
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	1-30-52	1-25-52	1196
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	12-26-51	12-20-51	1109
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-26-51	12-28-51	1567
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	1-9-52	1-5-52	1647
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	12-26-51	12-24-51	1387
50. BENGEL, W. G., Synthetic Resins; Rubber	2-15-52	2-16-52	1511
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	1-21-52	1-19-52	1382
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-26-52	1-19-52	2030
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-19-52	1-22-52	929
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	12-29-51	12-24-51	1679
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	12-28-51	1-4-52	1029
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	1-10-52	1-11-52	1910
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	1-29-52	1-29-52	1541
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	1-28-52	1-15-52	1153
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-24-52	1-19-52	1081
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	2-20-52	2-7-52	910
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	12-27-51	12-29-51	1282
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	2-6-52	1-24-52	1148
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	12-29-51	12-20-51	1719
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	1-7-52	1-7-52	1693
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	1-14-52	1-12-52	1442
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-2-52	12-29-51	912
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	2-18-52	2-15-52	1165
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-6-52	1-30-52	1419
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	12-26-51	12-26-51	1233
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-22-51	12-26-51	2976
DESIGNS: A. BREHM, G. L., Industrial Arts	6-7-52	7-1-52	682
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	5-23-52	5-23-52	777

Total number of trade-mark applications awaiting action (including renewals and republications), 14,761. Date of oldest new application, April 1, 1952; date of oldest amended application, April 2, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	4-2-52	4-2-52	3488
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	4-2-52	4-2-52	3722
Renewals (All Classes)	6-24-52	7-26-52	651
Republications (All Classes)	6-23-52	6-30-52	269
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	4-1-52	4-2-52	3612
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-7-52	4-2-52	3019

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ROSSMAN

No. 5829. Decided February 18, 1952

[194 F.2d 711; 93 USPQ 19]

PATENTABILITY — PARTICULAR SUBJECT MATTER — BUILDING CONSTRUCTION.

Certain claims to a building construction *Held* properly rejected as unpatentable over the cited prior art.

APPEAL from Patent Office. Serial No. 603,078.

AFFIRMED.

Emery, Holcombe & Blair (*Amasa M. Holcombe* of counsel) for appellant.

E. L. Reynolds (*Clarence W. Moore* of counsel) for the Commissioner of Patents.

GARRETT, *Chief Judge*:

Appellant here seeks reversal of the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner denying three (all) of the claims of appellant's application for a patent for alleged improvements in building construction.

It is thought that the nature and objects of the alleged invention may be discerned from the claims, which read:

11. A building construction of the character described comprising a plurality of separate alined apartment units, each unit including at least one room, a roof covering and spaced above said units, a main access corridor in the building located parallel with and adjacent to a plurality of said units and into which said units open, said corridor being of less height than the adjacent rooms, an upper corridor directly over said access corridor of a height to provide working space between the floor and the roof of said upper corridor and to give access to the spaces under the roof above said units, and an air conditioning conduit located in the lower part of said upper corridor extending parallel to said alined units and communicating therewith to provide a direct passage for air between said conduit and upper part of the interior of each unit, whereby all electric conduits and service and supply mains for said units may be housed contiguous to said corridor and accessible for repairs.

12. A building construction as set forth in claim 11 in which each apartment unit comprises a room opening into said main corridor and a garage alongside of and opening into said room.

13. A building construction as set forth in claim 11 in which the apartment units are alined in two groups disposed on opposite sides of the main corridor and there are two air conditioning conduits, one at each side of the upper corridor.

The brief for appellant dissects the claims, emphasizing certain features as follows:

Claim 11 specifies the following elements:

(*a*) a plurality of *apartment units* each having at least one room
(*b*) alined along a *main access corridor* of less height than the rooms,
(*c*) a *roof* covering and spaced above said rooms and main corridor
(*d*) enclosing an *upper corridor* having accessible working and pipe space alongside and over said rooms, and
(*e*) an *air conditioning conduit* in the lower part of said upper corridor opening laterally into the upper part of the adjacent rooms.

Claim 12 specifies in addition that each apartment unit (*a*) comprises a *room* opening into the corridor (*b*) and a *garage* alongside of and opening into said room.

Claim 13 specifies two groups of apartment units (*a*), one on each side of the main corridor (*b*), and two air conditioning conduits (*c*), one at each side of the upper corridor (*d*), otherwise all as set forth above in connection with claim 11.

Thus the claims are characterized by the arrangement and relative heights of the rooms and main corridor and upper corridor and roof, first, to provide concealed ducts for conducting the air (either heated or cooled or humidified) directly into the room below the ceiling level and second, to conceal and give ready access to all service mains, conduits, wires and facilities usually found in modern hotels within a minimum overall height of structure; thereby (1) saving in first cost by economizing space, (2) saving in cost of maintenance by exposing all pipes etc. that are normally in the walls and floors for periodic inspection and repair, and (3) at the same time permitting a low eaves and roof design of external architecture appropriate for the type of accommodations provided. (Italics quoted.)

The Primary Examiner rejected the claims upon two grounds: first, as being unpatentable over prior art disclosed in three patents; and second, as "being directed to aggregations."

As to the latter ground the Board said, "We do not sustain this rejection since, in our opinion, the claims are directed to a unitary structure." So, we are called upon to consider only the rejection based upon prior art.

The three patents cited as references are: Hatch, 288,332, Nov. 13, 1883; Earle, 1,654,683, Jan. 3, 1928; Coe, 2,107,523, Feb. 8, 1938.

The structure may be visualized from the following excerpt from the official statement of the Primary Examiner after the appeal had been taken to the Board, the numerals identifying specific features shown in drawings being deleted as indicated by the asterisks:

It is described particularly with relation to a single story tourist camp.

The floor plan of the embodiment illustrated is generally of H-shape and includes a transverse, central portion * * * having two lateral extensions or continuations, * * * Additional portions * * * are at right angles to the main portion.

The central part * * * is the main operational area and comprises a reception office portion * * * and a coffee shop * * *.

At the left end of Figure 1 a single room * * * is shown which communicates thru a doorway with a garage * * *. Next in order is a garage * * * which communicates with a room * * * The rooms * * * also have doorways communicating with the main corridor * * * On the opposite side of the corridor * * * is an arrangement of rooms and garages similar to those * * * [above] described.

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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

The corridor * * * is of less height than the living quarters on either side and above it is a utility corridor. * * *

Entrance openings are provided on either side of the [utility] corridor * * * for the purpose of giving workmen access to service pipes * * * and wiring facilities or conduits in the space between the ceilings of the described rooms and the room * * *.

Air conditioning ducts * * * on the floor of the corridor * * * provide a direct passage for air to the upper part of the rooms.

Specifically, claims 11 and 13 were rejected below as unpatentable over Hatch in view of Coe and claim 12 on a combination of Hatch and Coe in view of Earle.

The Hatch patent, issued November 13, 1883, was for an apartment house. It was cited by the Primary Examiner as showing a corridor communicating with rooms on either of its sides.

In the brief for appellant it is said, in substance, that there is nothing in the Hatch patent which in any way suggests appellant's type of multiple-room, low-roof, one-story structure, nor of the arrangement of superimposed corridors, each of less height than the room units by which accessible space is provided for concealed service mains and connections along with unobstructed access to the rooms.

It may be conceded that the Hatch patent does not show a one-story structure having a low roof, nor does it show corridors having ceilings lower than the ceilings of the rooms adjoining the corridor as does appellant. The drawings do not show a complete building structure, but do show floor plans. It is clear, as said in the official statement of the Primary Examiner, that all of claim 11 down to the phrase "said units" reads on the patent to Hatch, except as to the limitation "said corridor being of less height than the adjacent rooms."

Surely no invention is involved in putting corridors in a one-story building having a low roof. As for the low ceiling, we could not regard as skilled in the building art any architect or carpenter who could not plan or frame a structure so that the ceiling of a corridor would be lower than the ceiling of adjoining rooms and then imposing an upper section, or corridor, above the lower one to provide a passage for air and for conduits and other supply mains.

The Coe patent evidently was cited as meeting the provision in the claims for "an air conditioning conduit located in the lower part of said upper corridor extending parallel to said alined [apartment] units and communicating therewith * * *." It is broadly entitled "Building Structure." One figure of the drawings indicates a building of several stories. The specification recites that its main object is "to provide a building structure adapted for a residence, store or the like in which the walls are peculiarly adapted for use in connection with heating, ventilating and air conditioning the interior of the building." In his statement the Primary Examiner points out the presence in this patent of an air conduit which, extending along and through apertures, "communicates with alined superposed rooms for air-conditioning the same." We note that in the specification the conduit is referred to as an inner "duct," or a series of inner ducts, connected with "a common manifold which, in turn, is connected by feed pipes with a suitable hot air furnace."

With respect to the Coe patent the brief for appellant states:

* * * There is no attempt made in this patent to utilize either upper corridor space or attic space for serving the rooms below, the lateral conduits being located between the ceiling of one room and the floor of the room above, thereby substantially increasing the overall dimensions of the building both horizontally and vertically. * * *

As to this it seems sufficient to say that the claims do not present any dimensional limitation which is asserted to be critical, nor is there any specific claim of a location for the housing of the electric conduits and service and supply mains in appellant's corridor sufficient to differentiate it definitely from the location of the same instrumentalities in the Coe patent. Claim 11 simply states that the conduit for them is located in the lower part of the upper corridor. Even if there were such differentiation, however, it is not seen how, upon the record here presented, it would render the claims patentable.

The Earle patent was cited with particular reference to the limitation in claim 12 which recites that "each apartment unit comprises a room opening into said main corridor and a garage alongside of and opening into said room."

The patent shows individual basement garages with interior and exterior doors, the garages being built into residential buildings, and shows also superimposed individual garages to which access may be had from different ground levels.

We do not think there is anything inventive in appellant's limitation in view of the Earle patent. There is no invention in placing a conventional door where one wishes such a door to be.

In summary the Board said:

We have given careful consideration to the arguments presented by appellant at the hearing and in the brief, but are not convinced of error in the conclusion reached by the Examiner. While it is conceded that the references relied upon do not show the specific construction recited in claims 11 and 12 in respect to the corridor structure of less height than the adjacent rooms whereby an upper utility corridor is provided, we do not believe that the incorporation of this feature involves the exercise of the inventive faculties, it being routine practice in designing building structures to adapt and modify basic architectural plans to provide for air ducts and other utility services. Nor does the fact that appellant's construction has attracted favorable attention contribute anything in a patentable sense to the structure claimed. As for claim 12, the inclusion of a garage as an element of the apartment unit adds nothing upon which patentability can be predicated since a garage in conjunction with living quarters is not only old, as shown in Earle, but is also a well-known adjunct in the type of construction herein considered. Accordingly, we sustain the rejection of claims 11, 12 and 13 as failing to distinguish patentably from the prior art.

We find ourselves in accord with the foregoing views, and the decision of the Board of Appeals is affirmed.

AFFIRMED.

WORLEY, *J.*, dissents.

O'CONNELL, *J.* (dissenting):

The appealed claims have been finally rejected here on a variety of views summarized on the question of patentability in the Board's decision and incorporated by quotation in the opinion of the majority as the views of this court. The disallowance of the claims ignores the fundamental facts expressly conceded by the Board that appellant's claimed structure not only is new and desirable but also unquestionably different from any one of the structures of the references relied upon as a ground of rejection. As appellant correctly asserts in his brief:

To say that such an accomplishment is lacking in invention is to disregard the plain facts. Tourist camps have been in course of development for thirty years, the Hatch apartment house patent is over sixty-five years old, and even the Earle and Coe patents have been out for twenty and ten years respectively; and in spite of the ever present demand for better housing, no one conceived of the simple and inexpensive and highly satisfactory solution of the problem of multi-room-and-garage-unit construction until appellant hit upon that claimed in his application here involved.

The claims were rejected by the Examiner not only as unpatentable over the disclosure of the cited prior art but also "as directed to aggregations." The Board of Appeals expressly overruled the Examiner on his rejection of the claims on that ground but affirmed his action with respect to the rejection on the prior art. In so doing the Board held further that it is "routine practice in designing building structures to adapt and modify basic architectural plans to provide for air ducts and other utility services."

The latter statement, which appellant concedes to be axiomatic, is the real and inherent ground of the rejection. The cited art employed here discloses, however, that it has been customary in the Patent Office to grant patents for building structures when, in its opinion, the faculty of invention has resided in the disclosure and claims submitted by the applicant. This court has advanced the same legal principles and allowed the claims when the applicant has complied with the requirements of the law.[1]

The Solicitor for the Patent Office in urging the action which the majority have taken quoted authorities to the effect that when it comes to the allowance of patent claims, we cannot be unmindful of the fact that recent decisions of the Supreme Court now indicate a new and stricter interpretation of the statute on the question of patentability. To emphasize that proposition here, the Solicitor has quoted more than twenty lines from the decision of *Great Atlantic & Pacific Tea Co.* v. *Supermarket Equipment Corp.*, 340 U. S. 147, 87 USPQ 303, 642 O. G. 5. He has quoted also other lines from the decision of *Sinclair Co.* v. *Interchemical Corp.*, 325 U. S. 327, 330, 65 USPQ 297, 577 O. G. 3, to the effect that there should be no allowance of patent claims, unless those claims define some substantial innovation, "an innovation for which society is truly indebted to the efforts of the patentee."

The proper test for the allowance of patent claims, such as we have here, as I construe the statute, was formulated by Mr. Justice Bradley for the Supreme Court in the case of *Loom Co.* v. *Higgins*, 105 U. S. 580, 591, 21 O. G. 2031, to the effect that:

It may be laid down as a general rule, though perhaps not an invariable one, that if a new combination and arrangement of known elements produce a new and beneficial result, never attained before, it is evidence of invention. * * *

The late Judge Hatfield applied the rule just quoted in the allowance of claims covering plans for the site and arrangement of an apartment house or structure. No valid reason has been disclosed either by the tribunals of the Patent Office or by the opinion of the majority for ignoring or discussing that decision: namely, *In re Tourtellotte*, supra.

The distinguished jurist, Learned Hand, writing for a unanimous court in the recent case of *Philip A. Hunt Co.* v. *Mallinckrodt Chemical Works*, 177 F.2d 583, 586–587, deemed constrained to accept and follow the ruling previously expressed by Judge Hatfield, speaking for a unanimous court, on the ground that his judicial views were persuasive as an experienced expert on matters relating to patentability and should be followed "save in a case of very clear difference of opinion." The guidance of the authorities just cited persuade me to dissent from the views adopted by the majority and to urge the allowance of the appealed claims.

Furthermore, the language of the A. & P. case referred to by the Solicitor for the Patent Office may be readily misapplied and interpreted as laying down a hard and fast rule for resolving the question of invention in all cases involving combination patents.[2] But, as correctly pointed out by the United States Court of Appeals for the Fourth Circuit in the recent case of *Watson* v. *Heil*, 192 F.2d 982, 985:

When it is shown that a mechanical problem has persisted for some time, and men of ordinary skill in the art have failed to meet it when it is to their interest to do so, there is at least some ground for the conclusion that it was beyond their capacity. Such a circumstance has not infrequently been held sufficient to carry a discovery across the inventive line.

There is no occasion in this case, as I see it, to adopt or extend a new and unwarranted construction of the patent law and thereby place our great host of inventors, scientists, and discoverers in a strait jacket nowise authorized by Article I, section 8 of the Constitution of the United States, which made provision for those inventions and discoveries which tend "To promote the Progress of Science and useful Arts," including inventions for improvements upon existing disclosures. The decision of the Board of Appeals should be reversed.

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[1] *In re Tourtellotte*, 28 CCPA (Patents) 720, 115 F.2d 344, 47 USPQ 276, 522 O. G. 3. *In re Rolph*, 26 CCPA (Patents) 1064, 102 F.2d 875, 41 USPQ 291, 506 O. G. 285.

[2] *McCord Corp.* v. *Beacon Auto Radiator Co., Inc.*, 92 USPQ 163.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,028,759, C. F. Dinley, Treatment with solvents; 2,036,261, same, Apparatus for treatment with solvents; 2,101,840, 2,214,788, same, Degreasing apparatus, D. C., S. D. Calif. (Los Angeles), Doc. 13402–Y, *Detrex Corp.* v. *Steelmasters Co., Inc.* Judgment holding patents valid and infringed (notice July 15, 1952). Doc. 13403–Y, *Detrex Corp.* v. *Baron Industries.* Stipulation and order dismissing cause and counterclaim without prejudice (notice July 15, 1952). Doc. 13941–Y, *Detrex Corp.* v. *F. H. Macquarrie et al.* Stipulation and order dismissing cause and counterclaim without prejudice (notice July 15, 1952).

2,036,261. (See 2,028,759.) 2,101,840. (See 2,028,759.)

2,214,788. (See 2,028,759.)

2,267,361, O. E. Andrus, Corrosion-resistant metallic structure, filed July 21, 1952, D. C., N. D. Tex. (Dallas), Doc. 4757, *A. O. Smith Corp.* v. *Affiliated Gas Equipment, Inc. (Bryant Heater Division).*

2,455,515, S. Miller, Reinforcement and spring clip construction for a billfold, D. C., E. D. N. Y., Doc. C–9613, *Swank, Inc.* v. *S. Miller.* Dismissed for lack of prosecution July 3, 1951.

2,467,001, P. E. Allen, Scuff pad for automobile fender, D. C., E. D. Mich. (Detroit), Doc. 8246, *NeMar Mfg. Co. et al.* v. *Gratiot Auto Supply Co.* Stipulation and order of discontinuance (notice July 16, 1952).

2,477,168, T. H. Bradley, Fish eviscerating apparatus, filed July 17, 1952, D. C., N. D. Calif. (San Francisco), Doc. 31679, *T. H. Bradley* v. *Howden Food Products Corp.*

2,509,972. (See 2,512,995.)

2,512,995, J. Berger, Stroller having removable chair; 2,509,972, L. Gottfried, Chair and base therefor releasably secured thereto, filed July 17, 1952, D. C., E. D. N. Y., C–12762, *The Stroll-O-Chair Corp.* v. *Tilt Table Products Co.*

2,538,673 (*a*), P. A. Donahue, Footwear; 2,581,728, M. Spack, Retainer-welt slipper sock, filed June 2, 1952, D. C., S. D. N. Y., Doc. 76/120, *Slip-A-Sox, Inc.* v. *Neuville, Inc.* Consent decree and judgment holding patent valid, injunction granted July 21, 1952.

2,538,673 (*b*), P. A. Donahue, Footwear, D. C. N. J. (Trenton), Doc. 501/52, *Slip-A-Sox, Inc.* v. *Utilitron, Inc.* Judgment for injunction filed July 23, 1952.

2,541,768. (See T. M. 529,264.)

2,554,490, C. Eames, Furniture construction; Des. 155,272, Des. 150,683, same, Chair, D. C., S. D. Calif. (Los Angeles), Doc. 13858–T, *Herman Miller Furniture Co.* v. *Abbey Rents.* Dismissed without prejudice June 12, 1952.

2,578,091, A. S. Reed, Leather-soled sock with rearwardly extended toe cap; Des. 163,635, same, Leather soled sock, D. C., N. D. Ill. (Chicago), Doc. 51c2097, *Ripon Knitting Works* v. *Melville Shoe Corp.* Consent order of dismissal with prejudice July 14, 1952.

2,581,728. (See 2,538,673 (*a*).)

Des. 150,683. (See 2,554,490.)

Des. 151,733, W. G. Bley, Lady's stocking, D. C. N. J. (Camden), Doc. 291/52, *Sanson Hosiery Mills, Inc., et al.* v. *Collingswood Hosiery Mills, Inc.* Consent decree favor plaintiff, injunction granted July 22, 1952.

Des. 155,272. (See 2,554,490.)

Des. 157,299, Des. 157,300, G. C. Tait, Stocking, filed July 21, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13972, *Millway Knitting Mills* v. *Sanson Hosiery Mills, Inc., et al.*

Des. 157,300. (See Des. 157,299.)

Des. 163,633. (See 2,578,091.)

Des. 166,793, Des. 166,794, Des. 166,846, D. Borowitz, Electric lamp base, filed July 12, 1952, D. C., E. D. N. Y., Brooklyn, Doc. C–12753, *Bradley Mfg. Co.* v. *Everlite Novelty Mfg. Co. et al.*

Des. 166,794. (See 166,793.)

Des. 166,846. (See Des. 166,793.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 529,264, T. M. 553,206, Keller Products, Inc., Flexible sealing strips of rubberlike material; 2,541,768, K. M. Keller, Flexible molding strip, filed July 18, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1540, *Keller Products, Inc.* v. *Rubber Linings Corp.*

T. M. 553,206. (See T. M. 529,264.)

NOTICES

Examination

Pursuant to the provisions of Rule 341(c), an examination for persons seeking registration before the United States Patent Office as patent attorneys or agents will be held on Monday, February 16, 1953.

This examination will be given under the supervision of the Civil Service Commission, and may be taken in any of the cities of the country in which the Civil Service Commission regularly conducts examinations. Applications to take the examination must be directed to the Commissioner of Patents and filed in the Patent Office not later than January 15, 1953.

Application blanks may be obtained from the Clerk of the Patent Office Committee on Enrollment, Room 1859, Department of Commerce Building.

THOMAS F. MURPHY,
Sept. 23, 1952. *Chairman, Committee on Enrollment.*

Adjudicated Patents

(C. A. Mich.) Skinner Patent No. 1,847,365, for extrusion of metal. Claims 1 and 3 to 6 *Held* not infringed. *The Dow Chemical Company* v. *Skinner et al.*, 197 F.2d 807; 93 USPQ 115.

(C. A. N. Y.) Van der Horst Patent No. 2,412,698, for chromium for wear resistance. Claims 4, 6, 9, 13, and 22 to 27 *Held* invalid. *Van der Horst Corporation of America* v. *Chromium Corporation of America*, 197 F.2d 791; 93 USPQ 350.

(D. C. Mass.) Perry Patent No. 2,462,029, for adhesive compositions. Claims 1 to 7 *Held* valid and infringed. *S. D. Warren Company* v. *Nashua Gummed and Coated Paper Company*, 105 F. Supp. 643; 94 USPQ 23.

Disclaimers

2,442,951.—*Harley A. Iams*, Princeton, N. J. SYSTEM FOR FOCUSING AND FOR DIRECTING RADIO-FREQUENCY ENERGY. Patent dated June 8, 1948. Disclaimer filed Sept. 10, 1952, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 1 and 2 of said patent.

2,483,290.—*Martin Mayrath*, Dodge City, KANS. GRAIN LOADER. Patent dated Sept. 27, 1949. Disclaimer filed Sept. 11, 1952, by the assignee, *Mayrath Machinery Company, Inc.*

Hereby enters this disclaimer to claims 2, 4, 5, 6, and 10 of said patent.

663 O. G.—2

Cancellation Notice

Eldo H. Ewald, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Vitalic Battery Company, Inc., 2040 Amelia Street, Dallas, Texas, to effect the cancellation of trademark registration of Eldo H. Ewald (Allied Dealers Company, assignee, substituted, Mason City, Iowa), No. 320,045, dated December 18, 1934, and the notice of such proceeding sent by registered mail to the said Allied Dealers Company, at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless said Allied Dealers Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Oct. 7, 1952.)

THOMAS F. MURPHY,
Sept. 15, 1952. *Assistant Commissioner of Patents.*

Classification Bulletins Nos. 405, 406, and 407

The Classification Bulletins containing the following Classification Orders pertaining to the classification of subjects of invention revised by the Classification Group of the U. S. Patent Office are now available and copies may be obtained from the Commissioner of Patents at the prices indicated.

Class	Order No.	Title	Bulletin No.	Price
	119 thru 126	Miscellaneous	405	$0.35
137	127	Fluid Handling	406	1.20
100	128 thru 130	Presses	407	.85

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

E. I. du Pont de Nemours and Company has placed on the Register, as available for licensing on reasonable terms, 288 patents contained in Schedules XXIV, XXV, and XXVI, which will be listed in this and a succeeding issue of the OFFICIAL GAZETTE. These patents are in addition to more than 5,750 patents registered previously by this company and listed during 1948–1952 in the Register Section of the OFFICIAL GAZETTE. The present listing includes Reg. Nos. 49,229 through 49,380.

Inquiries concerning these patents should be addressed to: Patent Division, E. I. du Pont de Nemours and Company, Wilmington, Del.

SCHEDULE XXIV (284 patents)

Unrestricted licenses will be granted under these patents.

Re. 23,389. Nitro-Thiophanthraquinones. (Original Pat. 2,501,131, Mar. 21, 1950.) Mononitrothiophanthraquinones in which the nitro group may be in the 5- or 7-position. Group 28—81—89.

Re. 23,390. Amino-Thiophanthraquinones. (Original Pat. 2,501,132, Mar. 21, 1950.) Monoaminothiophanthraquinones in which the amino group may be in the 5-, 6-, 7-, or 8-position. Group 28—81—89.

Re. 23,405. Nitro-(2'-Thenoyl)-Alkyl Benzoates. (Original Pat. 2,519,040, Aug. 15, 1950.) Alkyl 4(or 6)-nitro-2-(2-thenoyl) benzoates in which the alkyl group contains 1 to 4 carbon atoms and in which the thiophene may have a chloro or bromo substituent in the 5-position. A process for the preparation of these compounds is also claimed. Group 28—81—89.

Re. 23,406. Nitro(2-Thenoyl)-o-Benzoic Acids. (Original Pat. 2,513,573, July 4, 1950.) Mononitro-2-(2-thenoyl) benzoic acids in which the nitro group is in the 3-, 4-, 5-, or 6-position in the benzene ring. Group 28—81—89.

Re. 23,451. Laminated Products and Adhesive Compositions of Matter. (Original Pat. 2,561,215, July 17, 1951.) Blends of vinylpyridine/diene hydrocarbon copolymers with phenol-aldehyde resols and use as adhesives for bonding nylon and other textile materials to rubber. The product of a fibrous material bonded to an elastomer by the adhesives is claimed. Group 28—83.

Pat. 2,023,888. Shot Shell and Process of Making Same. Dec. 10, 1935. Paper shells are coated with a cellulose ester composition and then paraffin. Group 28—92.

Pat. 2,026,618. Esters of N-p-Aminoaryl-Carbamic Acids and Process of Producing the Same. Jan. 7, 1936. N-(amino-aryl)-alkyl carbamates in which the aryl group represents a benzene or naphthalene nucleus which contains an alkoxy group in ortho position to the carbamate group and which may be further substituted by a halogen, methyl or alkoxy group. Group 28—81—83.

Pat. 2,026,619. Process for Producing N-p-Amino-Aryl-Carbamic Acids. Jan. 7, 1936. Preparation of an N-(4-amino-2,5-diethoxyphenyl)-carbamic acid ester by condensing 2,5-diethoxy-aniline with a chlorocarbonate of the general formula: XO—COCl, wherein X stands for alkyl or aralkyl, nitrating the resulting N-(2,5-diethoxyphenyl)-carbamic acid ester, and reducing the nitro compound to the corresponding amine. Group 28—83.

Pat. 2,029,895. Procedure for the Hydrogenizing and/or Splitting of Coal, Tars, Mineral Oils, and the Like. Feb. 4, 1936. Hydrogenating coal, coal distillates, tars, cresols, mineral oils, distillation residues, etc., at enhanced pressures and temperatures in the presence of a catalyst obtained by dissolving a sulfide of a Group 6 metal in a primary or secondary amine. Group 28—21.

Pat. 2,032,458. Pigment. Mar. 3, 1936. Preparation of colored substances by forming an alkaline suspension of color material of such concentration that the alkali leuco salt would separate in a short time upon the addition of an alkali hydrosulfite, adding an alkali hydrosulfite, but before the leuco salt can separate, adding an alkali-soluble aromatic nitro-compound to promote separation of the coloring matter and thereafter separating the colored substance. Group 28—12.

Pat. 2,033,161. Acid Synthesis Process. Mar. 10, 1936. Reaction of an olefin, carbon monoxide and water in a silver alloy reactor at high temperature and pressure to form an aliphatic monocarboxylic acid. Group 28—89.

Pat. 2,034,485. Production of Benzanthrones. Mar. 17, 1936. Process of producing a compound of the benzanthrone series by subjecting an ortho-aroyl benzoic acid having free ortho-positions in the aroyl nucleus to treatment with a ring closing agent and subsequently subjecting the resultant reaction mixture to treatment with a reducing agent and condensation with glycerine or a derivative thereof. Group 28—86.

Pat. 2,035,914. Process for Making Tubes, Fountain Pen Barrels, and the Like. Mar. 31, 1936. A process for making tubes and fountain pen barrels by helically winding a cellulose derivative sheet stock on an inner member. Groups 28—83; 39—51.

Pat. 2,035,915. Tube, Fountain Pen Barrel and the Like. Mar. 31, 1936. Tubes and fountain pen barrels by helically wound cellulose derivative sheet stock on an inner member. Groups 28—83; 39—51.

Pat. 2,041,950. Expansible Cover. May 26, 1936. An expansible cover for hydraulic mining cartridges consisting of wire braids extending spirally about the cover and fastened to rings at each end. Group 35—33.

Pat. 2,047,650. Textile Printing. July 14, 1936. A vat color paste containing a glycol or glycol ether. Groups 22—51—52—53; 28—81—89.

Pat. 2,048,768. Aroyl Chloride of the Benzene Series. July 28, 1936. Preparation of an aroyl chloride of the benzene series, e. g., para-nitrobenzoyl chloride, by reacting chlorine with a mixture of phosphorus trichloride and a benzene carboxylic acid in the presence of phosphorus oxychloride. Group 28—89.

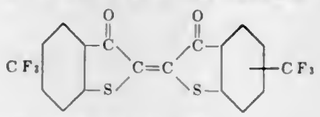
Pat. 2,049,486. Separation of Dimethyl and Trimethylamines by Distillation. Aug. 4, 1936. A process in which a mixture containing dimethyl and trimethylamines is fractionated and the distillate is redistilled at a pressure different from that originally employed. Group 28—86—89.

Pat. 2,052,170. Sizing Composition and Process of Making Same. Aug. 25, 1936. A rosin soap and process for making it by grinding together in the dry state rosin and an alkaline material, e. g., soda ash. Group 28—81.

Pat. 2,052,610. Wear and Heat Resisting Composition. Sept. 1, 1936. Material suitable for brake linings comprising polymerized chloroprene and fibers of chrysotile asbestos. Group 28—81—89.

Pat. 2,056,261. Manufacture of Para-Chloro-Ortho-Nitro-Anisole. Oct. 6, 1936. Manufacture of para-chloro-ortho-nitro anisole by heating methyl alcohol, nitro-para-dichloro-benzene and sodium hydroxide, the concentration of alkali at the start of the reaction being beneath that at which undesirable side reactions and excessive temperatures are evolved, and in which alkali is added during the course of the reaction at substantially the rate at which it is used. Group 28—61.

Pat. 2,061,186. Fluorine Containing Vat Dyes. Nov. 17, 1936. Color compounds having the formula: $R—(A)_n$, where n=an integer, A=CF_3 or F attached to an aryl nucleus which is part of a vat dye residue R. Example:



pink on cotton. Group 28—81—89.

Pat. 2,061,543. Method of Preparing Plastic Materials Derived From Urea and Formaldehyde. Nov. 24, 1936. A method of preparing plastic materials derived from urea and formaldehyde and containing combined sulphur, which comprises passing through a urea-formaldehyde solution a current of carbon dioxide and simultaneously adding to the solution a sulphide of a metal of the alkaline and alkali-earth groups, in such manner as to maintain said solution in a substantially neutral state. Group 28—83.

Pat. 2,064,580. Plasticizing Rubber. Dec. 15, 1936. Unvulcanized rubber is plasticized by treating with a thiophenol in the absence of more than 3.5% of sulfur. Group 30—51.

Pat. 2,085,749. Carbocyclic Addition Agents. July 6, 1937. A cyanide-cadmium electroplating composition and method employing a reaction product of an alkali metal cyanide with a carbocyclic compound which contains a carbonyl group. Group 34—19.

Pat. 2,085,776. Cadmium Electrodeposition. July 6, 1937. A cyanide-cadmium electroplating composition and method employing an amine reaction product of a ketaldone. Group 34—19—72.

Pat. 2,087,999. Polyvalent Metal Salts of Acid High Molecular Weight Esters of Polycarboxylic Acids. July 27, 1937. A polyvalent metal salt of the acid phthalic ester of long chain aliphatic alcohols, e. g., ferric cetyl phthalate, zinc dodecyl phthalate. Group 28—31.

Pat. 2,089,305. Liquid Soap. Aug. 10, 1937. A liquid soap comprising a potassium salt of an unsaturated fatty acid, a lower alcohol and the potassium salt of a dibasic aliphatic acid. Group 28—41.

Pat. 2,090,049. Cadmium Plating. Aug. 17, 1937. A cyanide-cadmium electroplating composition and method employing an oxidized resin obtained by reacting a ketaldone with ammonia or an amine in alkaline solution. Group 34—19—72.

Pat. 2,091,102. Pigment Colors and Their Preparation. Aug. 24, 1937. The process of producing a pigment color by reacting an aqueous suspension of a leuco salt of a vat color of the anthraquinone series with an oxidizing agent belonging to the class of aromatic nitro compounds of the benzene series which are water-soluble. Group 28—12.

Pat. 2,092,797. Purification of Organic Compounds. Sept. 14, 1937. A process for freeing a crystalline organic solid which is sparingly soluble in cold water from adherent acidified organic liquids which comprises treating the solid with an aqueous solution of a water-solubie salt of a sulfonated alcohol or hydrocarbon containing 8 to 18 carbon atoms in the molecule, and separating the purified crystalline solid therefrom. Specific claims to a solid acylacet-arylide. Group 28—86.

Pat. 2,097,508. Anode. Nov. 2, 1937. An anode comprising a spine with anode material cast thereon, the spine being provided with struck out hooks. Group 34—72.

Pat. 2,097,630. Plating of Cadmium. Nov. 2, 1937. A cyanide-cadmium electroplating composition and method employing a hydrogenated resin obtained by reacting a ketaldone with ammonia or an amine in alkaline solution. Group 34—19—72.

Pat. 2,100,242. Preparation of 2-Chloro-5-Amino-Benzoic Acid. Nov. 23, 1937. Preparation of 2-chloro-5-aminobenzoic acid by nitrating ortho-chloro-benzoic acid, reducing the resulting nitro compound to the amine and separating the 2-chloro-5-amino-benzoic acid from an aqueous medium kept at a pH of 2.5–3.5. Group 28—83.

Pat. 2,101,798. Collar and Method of Making the Same. Dec. 7, 1937. A multi-ply fold-over collar of the fused self-stiffened type with reduced number of fabric plies at the fold line. Group 23—21.

Pat. 2,109,285. Alloy. Feb. 22, 1938. Corrosion-resistant alloys consisting of specified proportions of molybdenum, iron, copper, tungsten, chromium, manganese, carbon, silicon, and nickel. Group 34—29.

Pat. 2,122,246. Method of Making Ornamental Plastic Rods. June 28, 1938. Rods made of lengthwise strips of plastic (Pearlescent or not). Group 39—81.

Pat. 2,123,504. Process for the Production of Chlorobutenes. July 12, 1938. Production of crotyl chloride by reacting butadiene with hydrogen chloride in the presence of an inert liquid diluent and salt of a polyvalent metal below calcium in the electromotive series. Group 28—89.

Pat. 2,137,006. Procedure to Render Albuminous Artificial Stuffs Soft and Elastic. Nov. 15, 1938. Artificial albuminous product containing cyclohexanone-glycerol as a softening agent. Group 28—83.

Pat. 2,137,393. Process of Polymerizing Styrene. Nov. 22, 1938. SO_2 as a catalyst—styrene alone or with methyl methacrylate. Group 28—83.

Pat. 2,144,464. Keto Carboxylic Acids Derived From Terpene-Maleic Anhydride Addition Products and Process of Preparing Them. Jan. 17, 1939. Preparation of keto carboxylic acids by reacting the alpha-terpinene-maleic anhydride addition product with an aromatic organic compound in the presence of a metal halide condensing agent and decomposing the condensation product. Group 28—83.

Pat. 2,146,447. Method of Polymerization. Feb. 7, 1939. Polymerization of unsaturated hydrocarbons, e. g., 1,2-dihydronaphthalene, butadiene, isoprene, by treatment with Na aildition compounds of polycyclic aromatic hydrocarbons, e. g., naphthalene, diphenyl, phenanthrene. Group 28—86.

Pat. 2,156,071. Sulphur Dyes From Hydroxy-Diarylamines. Apr. 25, 1939. Preparation of sulphur dyes by aerating a thionated p-hydroxy-diphenylamine in the presence of an excess of alkaline solution until the free alkali sulphide is oxidized and a product is precipitated in a form which will rapidly develop to final shade by air oxidation on the fiber when dyed from a sodium sulphide bath. Group 28—89.

Pat. 2,159,967. Oxides of Amino Acids. May 30, 1939. Preparation of dialkyloxamino long chain fatty acids, useful as detergents, by reacting a dialkylamino long chain aliphatic acid with an oxidizing agent. Group 28—86.

Pat. 2,168,331. Cast Resin With Integral Sheen. Aug. 8, 1939. Preparation of rods and sheets with uniform light-reflecting properties (methyl methacrylate and styrene with "pearl"). Group 28—83.

Pat. 2,194,363. Preparation of Propiolic Acid and Its Homologues. Mar. 19, 1940. Propiolic acid ex sodium acetylide and CO_2 in hydrocarbon medium. Group 28—86.

Pat. 2,196,894. Coating Equipment. Apr. 9, 1940. Process for applying finishing coat to coated fabric by means of two doctor rollers, the first being larger than the second and located essentially in the same plane over a revolving blanket. Group 35—59.

Pat. 2,205,883. Tanning. June 25, 1940. A tanning method and composition employing a partially neutralized acidic polymerization product of methacrylic acid or methacrylic acid-styrene interpolymer. Group 28—81.

Pat. 2,206,520. Mange Remedy. July 2, 1940. An aqueous emulsion, of which the dispersed phase contains tetraethyl thiuram monosulfide dissolved in vegetable oil and casein as an emulsifying agent. Group 28—31.

Pat. 2,211,138. Preparation of Rags for Paper Making. Aug. 13, 1940. Preparing indanthrene dyed rags for paper making by agitating in water, treating the fiber suspension thus formed with an aqueous alkaline hydrosulfite bath at a temperature of 100–130° C. and then washing the fibers. Group 26—11.

Pat. 2,214,128. Composition of Matter. Sept. 10, 1940. A high-strength corrosion-resistant alloy of nickel, chromium, molybdenum, copper, silicon, manganese, carbon and iron. Group 34—72.

Pat. 2,218,387. Fused Collar. Oct. 15, 1940. A fused collar characterized by improved adhesion of the separate plies by means of a mixed weave adhesive interlining fabric, the facing ply comprising a densely woven fabric to form projecting bights to be embedded in the adhesive. Group 23—21.

Pat. 2,220,867. Tanning. Nov. 5, 1940. Tanning method and composition employing an acidic polymeric material in which the acidity is due to carboxyl groups attached to aliphatic carbon atoms and in admixture therewith a foam depressant. Group 28—81.

Pat. 2,227,496. Insecticidal Composition. Jan. 7, 1941. Composition containing a rotenone or pyrethrum insecticide and a thiuram sulfide. Group 28—33.

Pat. 2,263,557. Conversion of Hydrocarbons. Nov. 25, 1941. Production of ethylene, benzene, toluene, xylene, by cracking petroleum vapors. Group 28—86.

Pat. 2,264,224. Multiply Launderable Apparel and Process of Preparing Same. Nov. 25, 1941. An article of apparel having collars and cuffs comprising fabric plies united by a thermoplastic synthetic resin, such as, copolymer of vinyl acetate and vinyl chloride and polystyrene. Group 23—21.

Pat. 2,269,797. Fused Collar. Jan. 13, 1942. A moisture pervious fused collar comprising fabric plies adhered together by a mixed weave interlining fabric, the facing ply comprising warp yarns of single strand and the weft yarns are twisted multistrand yarns. Group 23—21.

Pat. 2,276,138. Vinylaryl Esters. Mar. 10, 1942. Process to prepare p-vinylphenyl acetate. Composition: vinylaryl ester, p-vinylphenyl acetate polymer, copolymer of the acetate with styrene, methyl methacryiate, or chloroprene. Group 28—83.

Pat. 2,278,415. Interpolymers of Unsymmetrical Dichloroethylene. Apr. 7, 1942. Three component vinylidene chloride copolymer. Group 28—83.

Pat. 2,283,698. Launderable Multiply Fabrics. May 19, 1942. A multi-ply fabric for use in launderable apparel fused together by a preformed sheet of a thermoplastic adhesive comprising an acrylate sandwiched between the fabric plies. Groups 22—11; 28—89.

Pat. 2,289,210. Soluble Azo Dye. July 7, 1942. Soluble azo dyes prepared by diazotizing a mono-sulfo-amino-benzene having an hydroxy or carboxy group ortho to the amino group and coupling with a nitro-phenyl-pyrazolone-carboxylic acid or ester to give yellow to bluish red shades for wool. Groups 22—35; 28—81—89.

Pat. 2,294,306. Yellow Pigmentizing Composition and Process for Producing the Same. Aug. 25, 1942. Process which comprises coupling tetrazotized 3,3'-dichlorobenzidine with two mole equivalents of acetoacetanilide in a medium which is slightly acid to litmus, and heating the product of coupling in the medium from about 25° C. to a temperature range of about 60° C. to about 80° C. at a rate of about 2° C. per minute. Increased transparency of the pigment and greater tinctorial strength are afforded by this procedure. Group 28—12—91—99.

Pat. 2,307,244. Production of Indoles. Jan. 5, 1943. Production of indoles by catalytically hydrogenating an alkaline paste of indigo or leuco-indigo in an aqueous medium with hydrogen at a pressure of 500 to 1,000 pounds per square inch in the presence of 0.002 to 0.09 part of nickel, cobalt, copper, silver, chromium, palladium or platinum for each part of the compound to be hydrogenated, at 200° C. to 250° C. with agitation. Group 28—61.

Pat. 2,311,669. Galvanizing Process and Composition. Feb. 23, 1943. Process for hot dip coating of metals and composition employing a galvanizing flux such as zinc chloride and as a foaming agent an isoamketaldoresin such as a reaction product of aldol and monomethanolamine. Group 33—75.

Pat. 2,316,136. Process for the Isomerization of Dihydrobenzenes. Apr. 6, 1943. 1,4-dihydrobenzene is rearranged to 1,2-dihydrobenzene by heating the former in the liquid phase, above the boiling point, in the presence of an alkali metal alcoholate. Group 28—86.

Pat. 2,318,266. Dyestuffs of the Dibenzanthrone Series. May 4, 1943. Preparation of green cotton dyes by the alkylation of Bz-2; Bz-2'-dihydroxydibenzanthrone with polymethylene halides or equivalent alkylating agents. Group 28—81.

Pat. 2,328,398. Coating Composition. Aug. 31, 1943. A wire enamel comprising nylon, alkyd resin and phenolic resin. Groups 28—83; 33—74.

Pat. 2,328,633. Solvent Composition. Sept. 7, 1943. A solvent for enamels which comprises tetrahydronaphthalene which has been activated by passing a stream of oxygen through the liquid hydrocarbon. Groups 28—83; 33—74.

Pat. 2,328,652. Process of Color Photography and Composition Thereof. Sept. 7, 1943. Photographic elements and processes for color photography are characterized by the use of N-homophthalylamine dye intermediates. A representative compound is N-homophthalyl-2,5-dichloroaniline. Groups 28—89; 39—12.

Pat. 2,333,084. Composition of Matter. Nov. 2, 1943. A mixture of tetraethyl thiuram monosulfide and a minor amount of tetraethyl thiuram disulfide to reduce the pour point. Group 28—31.

Pat. 2,333,810. Devulcanizing Rubber. Nov. 9, 1943. Devulcanization of whole tire scrap rubber by treatment with a thiophenol at elevated temperatures and with sodium hydroxide. Group 28—89.

Pat. 2,335,592. Stretch-Spun Regenerated Cellulose Fiber Having an Improved Loop Tenacity. Nov. 30, 1943. Long chain sulfonamides are incorporated in a viscose solution to yield a yarn of improved softness. Group 28—51.

Pat. 2,338,637. Polyamine-Aldehyde Condensation Product and Its Production. Jan. 4, 1944. Condensation product of dicyandiamidine (guanyl-urea), preformed dicyandiamidine sulfate, and formaldehyde. Group 28—89.

Pat. 2,339,387. Plasticized Vinyl Polymer. Jan. 18, 1944. A plastic composition containing a mixed polymerizate of vinyl-acetate and vinyl-chloride and a mixture of adipic acid dioctyl ester and adipic acid didodecyl ester. Group 28—83.

Pat. 2,345,771. Alarm System. Apr. 4, 1944. A phonographic pickup is positioned to respond to mechanical vibrations of a wire fence and convert the vibrations to electrical impulses capable of being amplified. Group 36—62.

Pat. 2,348,226. Process for the Manufacture of p-Nitroaryl-Disulphimides. May 9, 1944. Production of p-nitroaryl sulphimides by reacting a p-nitroaryl sulphonic acid amide unsubstituted on its amide nitrogen atom with an organic sulphonic acid halide in an aqueous solution while maintaining the solution in an alkaline condition. Group 28—89.

Pat. 2,351,156. Regulator Auxiliary. June 13, 1944. An arrangement of auxiliary attachments for regulating the discharge pressure of gas compressors. Group 35—61.

Pat. 2,352,461. High Molecular Weight Unsaturated Organic Acids and Process of Preparing Them. June 27, 1944. Organic acids ex diolefines (e. g. butadiene) by reacting with alkali metal and CO_2 in "active ether" solvent (e. g. dimethyl ether of ethylene glycol). Group 28—86.

Pat. 2,355,503. Sulphated Amide Wetting, Detergent, and Sudsing Agents. Aug. 8, 1944. Production of surface active water-soluble salts of sulphated hydroxy alkyl fatty acid amides by condensing a monohalogenide of a fatty acid containing at least 8 carbon atoms with a lower molecular monoalkyiol amine, then sulphating this amide at the hydroxy group and neutralizing. Group 28—89.

Pat. 2,358,706. Process for Producing Calcium Cuproxy Chloride. Sept. 19, 1944. A process of producing calcium cuproxy chloride by reacting a solution of calcium chloride and ammonium chloride with pieces of metallic copper in a solution containing more than 10% of calcium cuproxy chloride in suspension while aerating. Group 28—89.

Pat. 2,365,258. Process for the Stabilization of Cellulose Esters. Dec. 19, 1944. Preparatory to steam stabilization of cellulose acetate, it is washed with mineral-free water. Group 28—83.

Pat. 2,369,667. Sulphur Dyestuffs and Process of Preparing the Same. Feb. 20, 1945. Preparation of a sulphur type dye by reacting a polycyclic aromatic hydrocarbon with $AlCl_3{\cdot}2S_2Cl_2$, which is made by reacting aluminum chloride with sulphur monochloride in the absence of a solvent. Also claims the dyes. Group 28—81.

Pat. 2,369,668. Sulphur Dyestuffs and Process of Preparing the Same. Feb. 20, 1945. Preparation of a sulphur type dye by reacting a carbocyclic compound having at least one basic nitrogen atom with $AlCl_3{\cdot}2S_2Cl_2$, which is made by reacting aluminum chloride with sulphur monochloride in the absence of a solvent. Also claims the dyes. Group 28—81.

Pat. 2,372,623. De-Emulsifying Agents. Mar. 27, 1945. A process for breaking aqueous emulsions of liquid nitro compounds of the benzene series which comprises adding to the emulsions a water-soluble salt of a sulfuric acid ester of a normal primary alcohol having between eight and twenty-four carbon atoms, agitating the resulting mixture and then permitting mixture to settle and stratify. Group 28—89.

Pat. 2,375,847. Process for the Preparation of Cyanoethyl Cellulose. May 15, 1945. Cellulose is reacted with an excess of monomeric acrylonitrile in the presence of an alkaline catalyst to yield a cyanoethyl cellulose suitable for use in the formation of films and filaments. Group 28—83.

Pat. 2,377,727. Purification of Trinitro-Tertiary-Butyl-Meta-Xylene. June 5, 1945. Purification of trinitro-tertiary-butyl-meta-xylene by extracting it, at a temperature above its melting point, with dilute aqueous alkali and then cooling to crystallize the organic compound. The product is used as a perfume fixative in toilet soaps. Group 28—41.

Pat. 2,378,118. Explosive Rivet. June 12, 1945. An explosively expanded rivet adapted to be initiated by a hammer blow. Group 33—12—91.

Pat. 2,378,519. Processing of Synthetic Elastomers. June 19, 1945. The processing characteristics of butadiene-styrene elastomers are improved by adding a zinc phenyl or naphthyl mercaptide. Group 28—83.

Pat. 2,378,745. Preparation of Tetra-Alpha-Chloro-Anthraquinone. June 19, 1945. Preparation of tetra-alpha-chloro-anthraquinone by chlorinating an anthraquinone containing not more than 3 Cl atoms in alpha-positions in the presence of sulfur trioxide dissolved in H_2SO_4 monohydrate. The product is used in making dyes, especially pentanthrimide carbazole. Group 28—81.

Pat. 2,383,399. Modified Maleic Anhydride-Terpene Reaction Products and Method of Producing Same. Aug. 21, 1945. Process for making polymeric carboxylic anhydrides from maleic anhydride, a $C_{10}H_{16}$ terpene and styrene or indene by simultaneously polymerizing all three in specified ratios. Group 28—81.

Pat. 2,383,868. Filtering Device. Aug. 28, 1945. Preventing leakage in a filtering device around the filter medium by providing a grommet-like member therein. Group 28—11.

Pat. 2,394,761. Chemical Product and Process for Making the Same. Feb. 12, 1946. Mixture of linear polymeric materials having a chain of

$$-CH-CH_2-$$
$$|$$
$$C_6H_5$$

units, a chlorine atom on one terminal valence and a $-CCl_3$ group on the other terminal valence of the chain, the chain having sulfonic acid group substituents. Group 28—89.

Pat. 2,402,613. Method of Producing Thiols. June 25, 1946. Preparation of thiols by hydrogenation of thiocarbonyl compounds, usually formed in situ from carbonyl compounds and S, H_2S, or substance giving H_2S. Group 28—89.

Pat. 2,402,615. Catalytic Process and Products Thereof. June 25, 1946. Preparation of thiols by hydrogenation of aldehydes in presence of S, H_2S, etc. Group 28—89.

Pat. 2,402,640. Chemical Processes and Product. June 25, 1946. Preparation of hydroxythiols by hydrogenation of hydroxycarbonyl compounds in presence of S, H_2S, etc. Polyhydroxyhexanethiols (thiosorbitol) as new compounds. Group 28—89.

Pat. 2,405,967. Preparation of Acids and Esters Thereof. Aug. 20, 1946. Preparation of a diester of diglycolic acid by subjecting an ester of an (alkoxymethoxy) acetic acid to reaction with carbon monoxide in the presence of boron fluoride. Group 28—86.

Pat. 2,405,977. Film Manufacture. Aug. 20, 1946. Preparing transparent polythene film by casting solution containing long-chain fatty acids or salts, especially aluminum soaps, at high temperatures, then quenching. Group 28—86.

Pat. 2,407,292. Product. Sept. 10, 1946. Compounds of formula Hal_3CRSCN where R is a polyethylene group containing less than seven ethylene groups and Hal is halogen. Group 28—33.

Pat. 2,412,886. Boiler Construction and Method of Producing Same. Dec. 17, 1946. Fire boilers constructed with explosive staybolts. Group 33—12—64—65.

Pat. 2,412,887. Staybolt. Dec. 17, 1946. A staybolt for boiler constructino adapted to be expanded by explosive charge contained in the shank. Group 33—12—64—65.

Pat. 2,415,159. Apparatus for Stripping Sulfur Trioxide From Oleum. Feb. 4, 1947. A still comprising an elongated heating chamber having an arched top and horizontal metal tubes so disposed that an upper portion of each tube is above the arch and a lower portion is exposed to the heating chamber. Group 28—89.

Pat. 2,418,816. Black Sulfur Dyes and Processes for Manufacturing the Same. Apr. 15, 1947. A black sulfur dye obtained by thionating dinitrophenol, picric acid, or mixtures thereof with mononitrophenol, oxidizing in aqueous medium to insolubilize the product and treating the resulting product in heated mildly alkaline suspension with an alkali or alkaline earth metal cyanide or an alkali thiocyanate until the exhaust properties of the product are increased. Group 28—81—89.

Pat. 2,418,938. Sulfur-Containing Polymeric Compounds. Apr. 15, 1947. Polymeric materials containing sulfur cross-links which result from mild oxidation of thiosulfate derivatives obtained, for example, by reaction of sodium thiosulfate and polyvinylchloroacetate. These materials are water-insoluble but may be solubilized by reduction to the corresponding mercaptans by splitting this cross-linking sulfur bridge. Group 28—33—89.

Pat. 2,418,939. Sulfur-Containing Polymeric Compounds and Process for Producing the Same. Apr. 15, 1947. Polymeric materials containing mercaptan thiosulfate groups are cross-linked by reaction with aldehydes, ketones or alkylidene dihalides so that the resultant polymer, which is water-insoluble, has a single carbon link between the sulfur atoms, and the sulfur atoms in turn are connected to the polymer chain through a —C—O— polymer linkage. Group 28—33—89.

Pat. 2,418,940. Sulfur-Containing Polymeric Compounds. Apr. 15, 1947. Polymeric materials containing thiosulfate groups resulting from reaction such as between polyvinyl chloro-acetate and sodium thiosulfate. The products may be hydrolyzed to mercaptans or oxidized directly to water-insoluble sulfur cross-linked polymers. Group 28—33—89.

Pat. 2,418,941. Thiourea Derivatives of Polymeric Compounds. Apr. 15, 1947. Polymeric isothiourea derivatives are obtained by reaction of thiourea with materials such as polyvinylchloroketal. Hydrolysis converts these water-soluble derivatives to mercaptans, with elimination of urea, and the mercaptans may be air oxidized to insoluble sulfur cross-linked polymers. Group 28—33—89.

Pat. 2,418,942. Method for Producing Polymeric Materials Containing Sulfur. Apr. 15, 1947. Polymeric materials, such as polyvinyl chloroacetate, are converted to mercaptans, by treatment with hydrogen sulfide in the presence of pyridine. The mercaptans are air-oxidizable to water-insoluble sulfur cross-linked polymers. Group 28—33—89.

Pat. 2,419,880. Polyvinyl Resin Adhesive Composition, Plywood, and Method of Making Plywood. Apr. 29, 1947. An adhesive composition comprising a polyvinyl resin and a linear polymeric polycarboxylic acid such as styrene-maleic anhydride interpolymer. Groups 24—22; 28—83.

Pat. 2,422,330. Dust Preventing Device for Packaging Subdivided Materials. June 17, 1947. A packaging device having a loading platform between an upright grill and a horizontal perforate extension of the loading platform, the grill and the perforate extension connected to a common exhaust flue. Group 35—69.

Pat. 2,422,550. Polymerization of Vinyl Compounds With Rubber. June 17, 1947. Copolymerization process for natural rubber and a monoethylenically unsaturated compound (exclusive of ethylene). Group 28—83.

Pat. 2,423,185. Process for the Manufacture of Coated and Impregnated Materials. July 1, 1947. Impregnating materials with an aqueous solution of a water-soluble salt of a formaldehyde-dicyandiamide resin and with a mineral acid salt of guanylurea and converting the resin to its insoluble state. Group 28—83.

Pat. 2,423,497. Production of Products Having Recurring Arylethylene Units With Termini From a Saturated Halogenated Alkane. July 8, 1947. A mixture of compounds having a chain of styrene units, one terminal of the chain being satisfied by hydrogen and the other by $—CCl_3$ radical; and process for making. Group 28—89.

Pat. 2,424,653. Process for the Manufacture of Ethyl Alpha,Alpha-Dimethyl Butyrate. July 29, 1947. Preparation of ethyl alpha,alpha-dimethyl butyrate from CO, ethylene, and propylene. Group 28—89.

Pat. 2,425,426. Polyhalogeno Aliphatic Nitriles. Aug. 12, 1947. Omega-polyhalogeno aliphatic compounds of formula $X_3C_1H_t$-3-$(CH_2)_m$-CN in which X is halogen, t is 7 or 9, and m is less than 12. Group 28—89.

Pat. 2,426,560. Copolymers of Fluoro-1,3-Butadiene and an Alkenylethinyl Carbinol. Aug. 26, 1947. A synthetic rubbery copolymer containing 85–97% of a fluoro-butadiene and 15–3% of a [(1-alken-2-yl)ethinyl] carbinol. Group 28—89.

Pat. 2,429,838. Synthetic Rubberlike Materials Comprising Fluoroprene. Oct. 28, 1947. Rubber-like material having high oil and freeze resistance, which is a copolymer of 80 to 97% 2-fluorobutadiene-1,3 and 20 to 3% acrylonitrile. Group 28—83.

Pat. 2,430,332. Composition and Method. Nov. 4, 1947. Herbicidal composition and method employing dimethyl cyanamido-dithiocarbonate. Group 28—33.

Pat. 2,431,001. Coated Fabric. Nov. 18, 1947. A fabric with a plurality of coatings, at least one of which is an elastomer such as acrylonitrile-butadiene interpolymer and a topcoat such as the interpolymer of neoprene and butadiene-acrylonitrile, the topcoat being halogenated after embossing with a solution of sulfur chloride and bromine in carbon tetrachloride. Group 28—83.

Pat. 2,432,447. Color Removal From Acrylonitrile Polymers. Dec. 9, 1947. A process for bleaching dried fibers of polymers containing at least 85% acrylonitrile by treating with hot aqueous hypochlorous acid solutions of high chlorine content. Group 28—89.

Pat. 2,436,213. Synthetic Rubberlike Materials Comprising Fluoroprene. Feb. 17, 1948. A synthetic rubberlike material obtained by polymerizing a mixture of monomers consisting of 15–80% fluoroprene, 80–15% of a 1,3-butadiene hydrocarbon having not more than 6 carbon atoms, and 5% of a vinylidene compound such as styrene, dimethyl vinylethynyl carbinol or butyl methacrylate. Group 28—83.

Pat. 2,436,286. Alkoxy-Substituted Esters. Feb. 17, 1948. Preparation of alkoxy-substituted carboxylic acid esters, such as methyl beta-methoxypropionate, by passing ketone into a symmetrical formal or a symmetrical acetal. Group 28—89.

Pat. 2,436,368. Catalytic Hydrogenation of Aminoacetonitrile to Ethylene Diamine. Feb. 17, 1948. In a process for the preparation of ethylene diamine by the hydrogenation of aminoacetonitrile in the presence of ammonia and cobalt oxide hydrogenation catalyst the step of conditioning the catalyst by operating at low space velocities during the initial 20 hours of operation. Group 28—86.

Pat. 2,437,600. Synthesis of Aldehydes. Mar. 9, 1948. Preparing aldehydes by reacting an olefin containing from 2 to 8 carbon atoms with carbon monoxide and hydrogen at a temperature of from 75° to 250° C. and at a pressure within the range of 325 to 3000 atmospheres, in the presence of a hydrogenation catalyst. Group 28—86—89.

Pat. 2,438,909. Polymers of Linear Formals. Apr. 6, 1948. Process of making polymerization products by polymerizing an alkyl, hydroxyalkyl formal, such as (methoxymethoxy) ethanol, in the presence of an inorganic acid catalyst; polymeric products obtained by said process. Group 28—83.

Pat. 2,439,203. Process for Producing Beta-Fluoroethyl Thiolacetate. Apr. 6, 1948. Production of 2-fluoroethyl thiolacetate by irradiating a mixture of vinyl fluoride, thiolacetic acid and butyl disulfide with light having a wave length of .015—.4 microns. Group 28—83.

Pat. 2,441,066. Process for Obtaining Polymeric Silicon Compounds. May 4, 1948. Reacting with a hydrocarbon silicon halide such as methyl silicon trichloride a compound containing a plurality of alcoholic hydroxyl groups attached to a hydrocarbon residue such as polyvinyl alcohol. Group 28—89.

Pat. 2,443,494. Preparation of Unsaturated Chloronitriles. June 15, 1948. New compounds, monochloromaleonitrile, monochlorofumaronitrile, dichloromaleonitrile, and dichlorofumaronitrile and their production by reaction of succinonitrile with chlorine in liquid phase, catalyzed by light. Group 28—89.

Pat. 2,443,898. Polymeric Beta-Hydroxyethyl Siliconic Acids. June 22, 1948. Polymeric beta-hydroxyethyl silanol of formula $HOC_2H_4SiO_{3/2}$. Group 28—89.

Pat. 2,448,368. Organic Acid Synthesis. Aug. 31, 1948. Synthesis of organic carboxylic acids by reacting an olefin having from two to ten carbon atoms per molecule with carbon monoxide and water at elevated temperatures and pressures in the presence of a catalyst such as nickel carbonyl or cobalt carbonyl. Group 28—86.

Pat. 2,448,375. Preparation of Carboxylic Acids. Aug. 31, 1948. Preparation of aliphatic carboxylic acids by reacting an olefinic hydrocarbon with carbon monoxide and steam at elevated temperatures and pressures in the presence of a preformed catalyst such as nickel carbonyl or cobalt carbonyl, supported on activated charcoal. Group 28—86.

Pat. 2,449,028. Process of Comminuting Impure DDT. Sept. 7, 1948. Comminuting in a high velocity gas disintegrator DDT having a set point of 102 to 106° C. in the presence of a salt of an acid having an ionization constant of at least 3×10^{-1} at 25° C. Group 28—33.

Pat. 2,451,370. Long-Chain Secondary Alkyl N-Substituted Polymeric Styrene/Maleamic Acids and Dispersions Containing Them. Oct. 12, 1948. N-substituted polymeric styrene/maleamic acids and their preparation; also coating compositions containing their ammonium salts and impregnation of textiles therewith. Group 28—34.

Pat. 2,452,460. Separation of 1-Cyanobutadiene-1,3 From Acetic Acid by Azeotropic Distillation. Oct. 26, 1948. Alpha-cyanoprene is separated from an acetic acid mixture by addition of triethylamine, pyridine, or trimethylamine which forms a high boiling azeotrope with acetic acid permitting recovery of pure alpha-cyanoprene by a single distillation under reduced pressure. Group 28—61—89.

Pat. 2,452,536. Process for Impregnating Leather With Sulfonated Polymeric Compositions. Nov. 2, 1948. Impregnating leather with a solution of a sulfonated copolymer of an unsaturated aliphatic acid and an olefine containing an aromatic substituent, e. g. sulfonated styrene-maleic anhydride copolymer. Group 28—81.

Pat. 2,456,177. N-Alkyl Polymeric Amic Acids and Coating Compositions Containing Them. Dec. 14, 1948. Amic acids of copolymers of ethylene-alpha,beta-dicarboxylic acid anhydrides and polymerizable monoethylenic compounds, 10 to 90% of the amido nitrogens being attached to a long chain alkyl radical and the remainder to short chain alkyl radical. Group 28—89.

Pat. 2,461,191. Vacuum Distillation of Trimethylamine From Dimethylamine. Feb. 8, 1949. In recovery of dimethylamine and trimethylamine from a mixture of both, distilling off the trimethylamine at a pressure of less than 500 mm. Hg and leaving dimethylamine. Group 28—89.

Pat. 2,462,448. Method for the Catalytic Production of Oxo-Carbonyl Compounds. Feb. 22, 1949. Preparation of oxo-carbonyl compounds by reacting an olefinic compound with CO and H_2 in the presence of a Group II metal. Group 28—89.

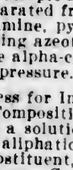
Pat. 2,462,738. Synthesis of Organic Oxygen-Containing Compounds. Feb. 22, 1949. Synthesis of organic oxygen-containing compounds, such as methyl acetate, by heating a lower aliphatic alcohol with carbon monoxide in the presence of a diffused cobalt acetate catalyst at elevated pressures. Group 28—89.

Pat. 2,463,653. Production of DDT of Improved Quality. Mar. 8, 1949. In making DDT of set point higher than 90° C., sulfonating with 99 to 104.5% H_2SO_4 a part of the ortho-para isomer present and separating the sulfonated material from the wanted para-tara isomer. Group 28—33.

Pat. 2,465,061. Fungicidal Composition. Mar. 22, 1949. Fungicidal composition comprising a compound $RO—CH_2—CH=CH—CH_2Cl$, in which R is phenyl or chlorinated phenyl (e. g. 1-phenoxy-4-chlorobutene-2 or 1-(2,4,6-trichloro) phenoxy-4-chlorobutene-2) and inert material as carrier. Group 28—33.

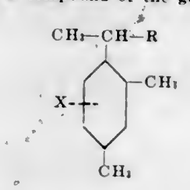
Pat. 2,465,339. Method for Preparing Fluorine-Substituted Orthosilicic Acid Esters. Mar. 29, 1949. A chlorofluorosilicane is reacted with a saturated alcohol, a saturated alkali metal alcoholate or a saturated alkali metal mercaptide. Group 28—89.

Pat. 2,467,130. Alkyl Substituted Aromatic Sulfonates. Apr. 12, 1949. Monosulfonic acids (and the water-soluble salts) of hydrocarbons of the general formula:



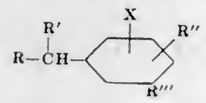
R = straight-chained, saturated, aliphatic hydrocarbon radical of 8 to 11 carbon atoms
R′ = alkyl radical of less than 3 carbon atoms.
Detergent compositions containing these compounds are claimed. Group 28—41—93.

Pat. 2,467,131. Alkyl Substituted Aromatic Sulfonates. Apr. 12, 1949. A compound of the general formula



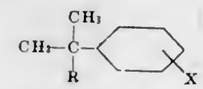
R = straight-chained radical of 8 to 11 carbon atoms
X = sulfo group or its water-soluble salts.
Detergent compositions containing these compounds are claimed. Group 28—41—93.

Pat. 2,467,132. Alkyl Substituted Aromatic Sulfonates. Apr. 12, 1949. Compounds of the general formula



R and R′ = straight-chained alkyl radical having 5 to 6 carbon atoms
R″ and R‴ = hydrogen or methyl
X = sulfo group or its water-soluble salts.
Group 28—41—93.

Pat. 2,467,170. Alkyl Substituted Aromatic Sulfonates. Apr. 12, 1949. A compound of the general formula



R = straight-chained alkyl radical of 7 to 11 carbon atoms
X = sulfo group or water-soluble salts thereof.
Detergent compositions containing these compounds are claimed. Group 28—41—93.

Pat. 2,467,235. Omega-Thiocyanoalkyl Esters and Insecticidal Compositions Containing Same. Apr. 12, 1949. An ester of formula AO—R—SCN, where A is an alkanoyl radical of two or three carbon atoms and R is a polymethylene radical of four to five carbon atoms, e. g. 4-thiocyanobutyl acetate; and insecticidal composition containing same in a hydrocarbon solvent. Group 28—34.

Pat. 2,472,269. 2,2-Bis-(4-Methylthiophenyl)-1,1,1-Trichloroethane. June 7, 1949. The compound 2,2-bis-(4-methylthiophenyl)-1,1,1-trichloroethane. Group 28—33.

Pat. 2,473,003. Purification of Chloral Containing Under-Chlorinated Constituents. June 14, 1949. Under-chlorinated constituents of crude chloral are polymerized by contacting with not more than 5% by weight of concentrated sulfuric acid for at least one hour. Group 28—34—89.

Pat. 2,473,004. Galvanizing Flux. June 14, 1949. Galvanizing process and composition employing a mixture of sodium, potassium, and ammonium chlorides in specified proportions. Group 33—75.

Pat. 2,473,993. Synthesis of Metal Carbonyls. June 21, 1949. Synthesis of nickel or cobalt carbonyl by simultaneously interacting an organic carboxylate of the metal with carbon monoxide and hydrogen. Group 34—19.

[1] Pat. 2,474,896. Solutions of Vinylidene Chloride-Acrylonitrile Copolymers Containing an Aromatic Hydrocarbon as a Gel Retardant. July 5, 1949. The addition of a small amount of an aromatic hydrocarbon such as toluene to a methyl ethyl ketone solution of vinylidene chloride-acrylonitrile copolymer to inhibit solution gelation. Group 28—89.

[1] Pat. 2,474,897. Coating Composition Containing Vinylidene Chloride-Acrylonitrile Copolymer and a Halogenated Hydrocarbon as a Gel Retardant Therefor. July 5, 1949. The addition of a small amount of a halogenated hydrocarbon, e. g., carbon tetrachloride, to a methyl ethyl ketone solution of vinylidene chloride-acrylonitrile copolymer to inhibit gelation. Group 28—83.

[1] These patents were previously registered as available for licensing for stated limited purposes, and listed in Schedule XX, OFFICIAL GAZETTE, Oct. 10, 1950. They are hereby removed from that category.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 7, 1952

[VOL. 663. No. 1]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 610,052. Expanded Rubber Company Limited, Croydon, Surrey, England. Filed Feb. 14, 1951.

AERAZOTE

The syllable "Aera" indicates "air" and the syllable "Zote" means "life" in the Greek language.
For Cellular Rubber and Cellular Resin Materials.
Claims use since November 1940; and since 1946 in commerce between Great Britain and the United States.

Ser. No. 616,888. Amherst Fuel Company, Charleston, W. Va. Filed July 25, 1951.



The words "Amherst Fuel Company" and "Charleston, W. Va." are disclaimed. Applicant claims ownership of Registrations Nos. 285,165 and 291,868.
For Coal.
Claims use since 1912.

Ser. No. 623,812. United States Rubber Company, New York, N. Y. Filed Jan. 19, 1952.

ROYALITE

Applicant claims ownership of Registration No. 539,903.
For Rubber Composition Sheets With or Without Fabric or Metal Backing for Further Use in the Industrial Arts.
Claims use since Mar. 3, 1949.

CLASS 2

RECEPTACLES

Ser. No. 534,931. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Filed Sept. 18, 1947. (Sec. 2f.)

OHIO

Applicant claims ownership of Registrations Nos. 209,845 and 421,405.
For Paper Bags.
Claims use since at least as early as 1902.

Ser. No. 611,106. Republic Molding Corporation, Chicago, Ill. Filed Mar. 9, 1951.

REPUBLIC

For Plastic Receptacles and Housewares — Namely, Knife Holders, Bowls With and Without Covers, Salad Bowls, Salad Dishes, Cereal Dishes, Food Storage Dishes, Tumblers With and Without Covers, Butter Dish and Cover, Ice Buckets, Food Boxes, Cups and Saucers, Service Plates, Coasters, Canisters, Decanters, Cocktail Shakers, and Mugs.
Claims use since as early as February 1948.

Ser. No. 619,409. Plax Corporation, West Hartford, Conn. Filed Sept. 29, 1951.



The words "For Plastics" and "Not Substitutes—Improvements" are disclaimed. Applicant claims ownership of Registration No. 548,558.
For Bottles Made of Organic Thermoplastic Materials.
Claims use since September 1943.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 615,838. King Leathers Incorporated, Indiana, Pa. Filed June 28, 1951. (Sec. 2f.)

Slimfold

Applicant claims ownership of Registration No. 412,338.
For Purses, Wallets, and Pocketbooks.
Claims use since Apr. 30, 1942.

Ser. No. 623,032. Philadelphia Brief Case Co., Philadelphia, Pa. Filed Dec. 31, 1951.

YOU CAN RELY ON THE RE-LION PRODUCTS
RE-LION

The slogan "You Can Rely on the Re-Lion Products" is disclaimed.
For Handles for Luggage.
Claims use since 1931.

Ser. No. 625,009. Fran-Stef Manufacturing Co., New York, N. Y. Filed Feb. 15, 1952.

Snooky
A NOOK FOR EVERY NEED

The phrase "A Nook for Every Need" is disclaimed.
For Handbags.
Claims use since Jan. 2, 1952.

Ser. No. 625,010. Fran-Stef Manufacturing Co., New York, N. Y. Filed Feb. 15, 1952.

Snooky

For Handbags.
Claims use since Jan. 2, 1952.

Ser. No. 625,213. Nash Inc., Jersey City, N. J., and Paris, France. Filed Feb. 19, 1952.

Daniel de Paris PURSE

The words "De Paris Purse" are disclaimed.
For Wallets, Purses, Billfolds, and Pocketbooks.
Claims use since Dec. 28, 1951.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 570,515. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 14, 1948. (Sec. 2f—Additional evidence.) (Classified in Class 52.)
Applicant claims ownership of Registration No. 369,614.
See this serial number in Class 52 for goods and mark.
Claims use since July 15, 1946.

Ser. No. 609,781. Cassella Farbwerke Mainkur, Frankfurt (Main)-Fechenheim, Germany. Filed Feb. 8, 1951.

Cassectol

Priority under Sec. 44(d). German application filed Aug. 22, 1950. Registration No. 614,377, dated Nov. 27, 1951.
For Textile Auxiliaries.

Ser. No. 610,789. David J. Howells, Calgary, Alberta, Canada. Filed Mar. 3, 1951. (Classified in Class 52.)
See this serial number in Class 52 for goods and mark.
Claims use on approximately Apr. 1, 1949, in Canada; and use in commerce between foreign nations and the United States on approximately Nov. 15, 1950.

Ser. No. 614,815. Cassella Farbwerke Mainkur, Frankfurt (Main)-Fechenheim, Germany. Filed June 6, 1951.

CASSOFIX

For Chemical Products for Improving the Fastness Properties of Dyeings.
Claims use since Aug. 22, 1950, in Germany; and first used in commerce between foreign nations and the United States on Sept. 7, 1950.

Ser. No. 614,817. Cassella Farbwerke Mainkur, Frankfurt (Main)-Fechenheim, Germany. Filed June 6, 1951.

NIKRULAN

For Chemical Agents Used for Imparting Crease-Resistance to Textile Materials.
Claims use since Mar. 24, 1949, in Germany; and first used in commerce between foreign nations and the United States on Mar. 23, 1950.

Ser. No. 617,209. Parker Rust Proof Company, Detroit, Mich. Filed Aug. 1, 1951.

BONDERLUBE

For Soap-Like Chemical Composition for Treating Metal Surfaces Which Have Been Pretreated With Phosphating Coating Chemicals, Which Soap-Like Composition Reacts With the Phosphatic Coating To Form a Lubricant Layer Especially Adapted to Cold Forming and at the Same Time To Retard the Formation of Rust.
Claims use since Oct. 6, 1950.

Ser. No. 618,284. John R. Barrett, Plymouth, Ind. Filed Aug. 31, 1951.



The drawing is lined for red. The word "Insect" is disclaimed.
For Insect Repellent.
Claims use since Aug. 28, 1951.

Ser. No. 623,097. West Disinfecting Company, Long Island City, N. Y. Filed Jan. 2, 1952.

FRUITODA

For Deodorant Fluid for Use in Liquid Drip Machines.
Claims use since Oct. 1, 1951.

Ser. No. 623,450. Baker and Company, Incorporated, Newark, N. J. Filed Jan. 11, 1952.

BAKER & COMPANY, INC. CATALYSTS

The words "Baker & Company, Inc. Catalysts" are disclaimed.
For Catalysts.
Claims use since Dec. 1, 1951.

Ser. No. 626,956. Philadelphia Quartz Company, Philadelphia, Pa. Filed Mar. 24, 1952.

V

Applicant claims ownership of Registration No. 81,353 and Re-registration No. 511,387.
For Silicate of Soda.
Claims use since Feb. 19, 1952.

Ser. No. 627,049. The Davison Chemical Corporation, Baltimore, Md. Filed Mar. 26, 1952.

"121"
PROTEX-SORB

Applicant claims ownership of Registrations Nos. 373,979 and 397,230.
For Contacting Agent for Treatment of Gases, Liquids, or Solids, and Employed Particularly as a Desiccant or Dehumidifier for the Interior of Enclosures or Containers.
Claims use since Feb. 23, 1952.

Ser. No. 627,290. G. H. Wood & Company, Limited, Toronto, Ontario, Canada. Filed Mar. 29, 1952.

OZETTE

Applicant claims ownership of Canadian Registration No. N. S. 40,289, Register 158, dated Jan. 10, 1952.
For Deodorant in the Form of a Crystalline Block for Household, Commercial and Industrial Use.

Ser. No. 627,613. American Chemical Paint Company, Ambler, Pa. Filed Apr. 5, 1952.

WEEDONE
LV4

Applicant claims ownership of Registrations Nos. 420,202, 438,503, and 521,503.
For Materials Useful in Eradicating Weeds.
Claims use since Mar. 9, 1950.

Ser. No. 627,614. American Chemical Paint Company, Ambler, Pa. Filed Apr. 5, 1952.

LV4

Applicant claims ownership of Registrations Nos. 420,202, 438,503, and 521,503.
For Materials Useful in Eradicating Weeds.
Claims use since Mar. 9, 1950.

Ser. No. 627,627. Eston Chemicals, Inc., Los Angeles, Calif. Filed Apr. 5, 1952.

ESTONATE

Applicant claims ownership of Registration No. 528,963.
For Insecticides.
Claims use since Jan. 16, 1952.

Ser. No. 627,628. Eston Chemicals, Inc., Los Angeles, Calif. Filed Apr. 5, 1952.

ESTONOX

Applicant claims ownership of Registration No. 528,963.
For Blend of Materials for Use in the Preparation of Insecticide Dusts.
Claims use since Jan. 16, 1952.

Ser. No. 627,698. Philadelphia Quartz Company, Philadelphia, Pa. Filed Apr. 7, 1952.

L

For Silicate of Soda.
Claims use since Mar. 21, 1952.

Ser. No. 631,984. Eutectic Welding Alloys Corporation, New York and Flushing, N. Y. Filed June 30, 1952.

ALFLO

For Chemical Flux Composition for Use in Metal Joining Processes.
Claims use since Apr. 24, 1952.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 626,745. Pax Products, Inc., Brooklyn, N. Y. Filed Mar. 20, 1952.

WHIRLAWAY

For Ash Receivers.
Claims use since Feb. 29, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 595,589. Birmingham Ornamental Iron Co., Inc., Birmingham, Ala. Filed Apr. 12, 1950.

Meadowcraft

For Ornamental Metal Castings for Construction Purposes — Namely, Railings, Trellises, Columns, Grilles, Gates, and Spiral and Steel Stairs.
Claims use since 1941.

Ser. No. 605,890. Bigelow-Liptak Corporation, Detroit, Mich. Filed Nov. 4, 1950.

Texad

For Industrial Furnace Casings of Fabric Impregnated With Plastic for Enclosing Industrial Heating Units Such as Furnaces and Boilers.
Claims use since Oct. 4, 1949.

Ser. No. 609,450. Plibrico Jointless Firebrick Company, Chicago, Ill. now by change of name Plibrico Company. Filed Jan. 31, 1951. (Sec. 2f as to "Tuff-Lite"—Additional evidence.)



For Castable Refractory Material.
Claims use since Sept. 20, 1947.

Ser. No. 619,585. Russell Reinforced Plastics Corporation, Hicksville, N. Y. Filed Oct. 4, 1951.

Repco Board

The word "Board" is disclaimed.
For Low Pressure Moulded Large Flat Sheets and Corrugated Flat Sheets Composed of Glass Fiber and Synthetic Resinous Material, for Use as Cargo Liners, Aircraft Backing Board, and Structural Panels.
Claims use since on or about Sept. 4, 1951.

Ser. No. 619,586. Russell Reinforced Plastics Corporation, Hicksville, N. Y. Filed Oct. 4, 1951.

Repco Plastics

The word "Plastics" is disclaimed.
For Low Pressure Moulded Structural Forms and Shapes of Glass Fiber and Synthetic Resinous Material for Use in Construction of Aircraft.
Claims use since on or about Sept. 4, 1951.

Ser. No. 620,083. Behr-Manning Corporation, Troy, N. Y. Filed Oct. 17, 1951. (Sec. 2f—Additional evidence.)

BEHR · MANNING

For Auto Body Compositions—Namely, Metal Crevice Filler, Body Deadener Composition, Body Caulking Composition, Clear Glass Crevice Sealer, and Body Crevice Sealer.
Claims use since Apr. 17, 1951; and since on or about Aug. 31, 1928, for abrasive papers and cloths.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 554,747. Washington Steel Products, Inc., Tacoma, Wash. Filed Apr. 15, 1948.

Kitch'n Handy

The word "Kitch'n" is disclaimed.
For Metal Hardware Accessories for Use Particularly With Kitchen Sinks, Kitchen Cabinets, and Closets—Namely, Shelf Type Racks for Supporting Towels, Pots and Pans, Pot and Pan Lids, Dishes, Utensils, Knives, Comestibles, Condiments, Beverages, Medicines, Cleaning and Polishing Materials and Bric-a-Brac; and Dispensing Racks for Rolled Sheet Material Including Paper Towels, Wax Paper, Metal Foil, and the Like.
Claims use since May 12, 1947.

Ser. No. 618,222. Acme Steel Company, Chicago, Ill. Filed Aug. 30, 1951.

ACME STEEL

The word "Steel" is disclaimed.
For Metal Strap Fastening Seals, Corrugated Wood Fasteners, Joint Fasteners, Freight Car Door Straps, and Metal Barbed Box Straps.
Claims use since July 10, 1950.

Ser. No. 622,801. Car Blocking Incorporated, St. Louis, Mo. Filed Dec. 26, 1951.

DEVILCLAW

For Blocking Anchors for Holding Lading Against Shifting in Transit.
Claims use since on or about Oct. 15, 1951.

Ser. No. 625,820. Rival Manufacturing Company, Kansas City, Mo. Filed Mar. 1, 1952.

Vac-o-mat

For Mounting Brackets for Kitchen Utensils.
Claims use since Jan. 11, 1950.

Ser. No. 627,691. Lional Plastics Corporation, New York, N. Y. Filed Apr. 7, 1952.

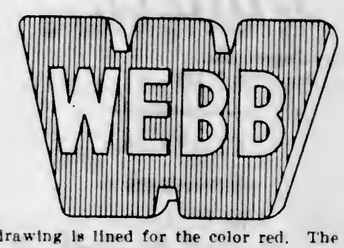


For Puzzle Key Chains.
Claims use since Feb. 29, 1952.

CLASS 15

OILS AND GREASES

Ser. No. 591,265. Harry K. Webb, Alexandria, Minn. Filed Jan. 21, 1950.



The drawing is lined for the color red. The mark consists of a block "W" in red, shaded on the right hand side in white, with the word "Webb" in block letters in white superimposed across the face of the block "W." Applicant claims ownership of Registration No. 320,736.
For Gasoline and Lubricating Oil.
Claims use since on or about Dec. 1, 1948.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 555,311. The Sherwin-Williams Company, Cleveland, Ohio. Filed Apr. 22, 1948. (Sec. 2f—Additional evidence.)

FLAT-TONE

Applicant claims ownership of Registration No. 162,988.
For Paints (Liquid, Paste, Semi-Paste) and Paint Enamel.
Claims use since July 25, 1906.

Ser. No. 589,503. The Firelure Corporation, sometimes doing business as Firelure Corporation, San Francisco, Calif. Filed Dec. 17, 1949.

FIRE

For Fluorescent Lacquer Enamel for Use on Fishing Lures and Tackle.
Claims use since April 1949.

Ser. No. 611,256. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed Mar. 14, 1951.

DUVON

For Corrosion Resistant Coating Composition Having a Modified Phenolic Base and Adapted To Be Baked on Metal Surfaces at a High Temperature.
Claims use since Feb. 22, 1951.

Ser. No. 619,529. Armstrong Paint & Varnish Works, Chicago, Ill. Filed Oct. 3, 1951.

PRESTIGE

For Paints, Varnishes, and Enamels.
Claims use since on or about Sept. 20, 1951.

Ser. No. 624,323. Baltimore Paint & Color Works, Baltimore, Md. Filed Jan. 31, 1952. (Sec. 2f.)

Grips-all

For Floor Paint.
Claims use since June 25, 1945.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 611,066. Fleming-Hall Tobacco Co., Inc., New York, N. Y. Filed Feb. 27, 1951. (Sec. 2f.)

Coffee-Tone

Applicant claims ownership of Registration No. 399,154.
For Cigarettes and Smoking Tobacco.
Claims use since Sept. 24, 1941.

Ser. No. 626,464. Larus & Brother Company, Richmond, Va. Filed Mar. 14, 1952.

SENSIBLE

Applicant claims ownership of Registrations Nos. 128,094 and 397,684.
For Smoking Tobacco and Cigarettes.
Claims use since 1890.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 575,243. Bernard Chiego, doing business under the name of Bioresearch Laboratories, Newark, N. J. Filed Mar. 11, 1949.

CARIDIN

For Preparation That Can Be Used for External Application for Bed Sores and Other External Infections and May Be Taken Internally for Its Iodine Content But Its Use Being Only on the Prescription of a Physician.
Claims use since the latter part of 1947.

Ser. No. 601,459. Pearson Pharmacal Company, Inc., New York, N. Y. Filed July 29, 1950.

"DAROTOL"

For Preparation Which Is Used as an Ingredient for an Ingestible Pill, Containing Chlorophyll (Chlorophyllin), Having the Chemical Properties of Acting Systemically To Eliminate Body Odors.
Claims use since July 19, 1950.

Ser. No. 607,021. David Hillman, doing business as Hillman Pharmaceutical Co., Chicago, Ill. Filed Nov. 28, 1950. (Sec. 2f.)



The word "Compound" is disclaimed. Applicant claims ownership of Registration No. 265,202.
For Medication for Internal Use in the Relief of Functional Dysmenorrhea.
Claims use since Jan. 1, 1929.

Ser. No. 608,084. Will Ross, Inc., Milwaukee, Wis. Filed Dec. 26, 1950.

AREN

Applicant claims ownership of Registration No. 309,906.
For Medicated Hospital Lotion, More Particularly a Soothing and Cooling, Non-Alcoholic, Body Rub Especially Designed for Hospital Use.
Claims use since July 20, 1950.

Ser. No. 608,908. Allied Laboratories, Inc., Kansas City, Mo. Filed Jan. 18, 1951.

PHENSAL

For Tablet for Control of Pain of Neuralgic Type, in Certain Types of Headaches, Pains Accompanying Fever, and as an Antipyretic.
Claims use since 1922.

Ser. No. 611,972. Pierce's Proprietaries, Inc., Buffalo, N. Y. Filed Mar. 29, 1951.

MEDIVIM

For Iron and Stomachic Tonic and Dietary Supplement Preparation.
Claims use since Mar. 6, 1951.

Ser. No. 612,296. Baray Pharmacal Corporation, Brooklyn, N. Y. Filed Apr. 6, 1951.

Clora-breth

With respect to "Breth" applicant claims exclusive rights to it only in connection with the remainder of the mark, and not independently thereof.
For Tablets Taken Internally, as by Dissolving in the Mouth for Refreshing the Breath.
Claims use since Oct. 20, 1950.

Ser. No. 626,182. Vitamins, Inc., Chicago, Ill. Filed Mar. 8, 1952.

VI-SPAN

For Blood Plasma Substitute.
Claims use since Feb. 28, 1952.

Ser. No. 631,163. Jon Paul Pharmaceutical Distributing Company, Inc., Chicago, Ill. Filed June 13, 1952.

DURELL

For Dietary Supplement.
Claims use since Mar. 7, 1951.

CLASS 19

VEHICLES

Ser. No. 523,031. Irving Air Chute Co., Inc., Buffalo, N. Y. Original filed, act of 1905, May 26, 1947; amended to application under act of 1946, Principal Register, Jan. 14, 1949. (Sec. 2f as to "Irvin.")



The representation of a parachute is disclaimed. Applicant claims ownership of Registrations Nos. 228,084, 228,085, and 228,087.
For Parachute Equipment—Namely, Packs, Harnesses, Canopies, Aircraft Parachute Chairs, and Parachute Pack Opening Devices, Such as Rip Cords, and Rip Cord Handles.
Claims use since January 1929.

Ser. No. 612,022. Luma-Rim Corporation, Oakland, Calif. Filed Mar. 30, 1951.

SAVA-DOR

The word "Dor" is disclaimed.
For Luminous Safety Device Consisting of Cut-Outs of Reflective Glass and Plastic Sheeting To Be Applied to Motor Vehicle Doors.
Claims use since Dec. 27, 1950.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 612,791. Columbus Coated Fabrics Corporation, Columbus, Ohio. Filed Apr. 18, 1951.

ART SUEDE

The word "Suede" is disclaimed.
For Oilcloth.
Claims use since Feb. 15, 1951.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 612,941. Anaconda Wire and Cable Company, New York, N. Y. Filed Apr. 21, 1951.

DURASHEATH

Applicant claims ownership of Registrations Nos. 86,485, 134,107, and others.
For Electric Wires and Cables.
Claims use since Nov. 15, 1940.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 564,231. Tulsa Fishing Tackle Company, Tulsa, Okla. Filed June 7, 1948.

BEE

For Artificial Fish Baits.
Claims use since Sept. 1, 1947.

Ser. No. 564,234. Tulsa Fishing Tackle Company, Tulsa, Okla. Filed June 7, 1948.

STUNTER

For Artificial Fish Baits.
Claims use since Sept. 1, 1947.

Ser. No. 598,573. Canada Cycle and Motor Company Limited, Weston, Ontario, Canada. Filed June 5, 1950.

PATHFINDER

Priority under Sec. 44(d). Canadian application filed Dec. 8, 1949, Registration No. 205,321, dated Dec. 12, 1949.
For Ice Skates.

Ser. No. 619,367. Sewall Smith, doing business as The Golden Age Company, Lafayette, Calif. Filed Sept. 28, 1951.



The drawing is lined for blue, red, and purple, but these particular colors are not considered essential features of the mark.
For Board Game Played With Movable Pieces.
Claims use since July 15, 1951.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 546,969. Detrex Corporation, Detroit, Mich. Filed Jan. 14, 1948.

DETREX

Applicant claims ownership of Registrations Nos. 336,256 and 385,146.
For Mechanical Cleaning Booths for Spray Cleaning of Small Metal Parts and the Like With Organic Solvents, Alkaline Emulsions, and the Like; Degreasing Machines, Solvent Distilling and Recovery Units for Organic Cleaning and Degreasing Solvents, Extractor Machines for Removing Oil and the Like From Soy Beans or Similar Natural Products, Solvent Stills, Sheaves, Pumps for Handling Liquids, Emulsion Washers, Spray Machines, Metal Cleaning Machines Known as Continuous Spray Installations for Cleaning and Rustproofing Hardware, Machined Parts and Manufactured Articles, Paint Stripping Machines, Conveyor Apparatus for Continuously Moving Metal Parts and Solid Compositions in Industrial Processing Operations, Hoists for Lifting Heavy Objects, Separators for Separating Water From Condensed Solvents in Dry Cleaning and Metal Cleaning Operations, Meals and the Like, Pulleys, Alkali Washing Machines for Washing Metals, Plastics, Glass and the Like, Mineral Spirit and Petroleum Spirit Washing Machines for Washing Metals, Plastics, Glass and the Like, Metal Cleaning Machines Using Solvent Cleaners, Mechanized Dip Tanks for Dipping Machines, Engines and Metal Parts Into Rustproofing, Chemical Cleaning, Degreasing and Other Like Baths, and Boiler Feed and Condensate Return Pumps, Piping, Coils, Valves and the Like in the Form of a Complete Unit for Moving Boiler Feed Fluids and Condensed Boiler Fluids.
Claims use since Dec. 20, 1935.

Ser. No. 550,276. Vickery's Ltd., London, England. Filed Feb. 20, 1948.

DIRTEC

For Vortex-Type Separators for Removing by Centrifugal Action Undesirable Particles of Slurries of Desired Particles.

Claims use since Feb. 5, 1940; and use in commerce among the several States since June 12, 1944.

Ser. No. 556,394. Berkeley Pump Company, Berkeley, Calif. Filed May 7, 1948. (Sec. 2f.)



For Water Pumping Systems for Deep Wells and Shallow Wells, Pumps and Pressure Tanks, Sold as a Unit, and Parts Thereof, for Home, Farm, and Industrial Use.

Claims use since Apr. 1, 1937.

Ser. No. 584,440. The Bullard Clark Company, Danielson, Conn. Filed Sept. 3, 1949.

RUBBERWELD

Applicant claims ownership of Registration No. 435,445.

For Loom Supplies—Namely, Lug Straps, Sweepsticks, Drop Box Pickers, Check Straps, Harness Straps, Jack Straps, Bumper Straps, Picker Sticks, Bunters, Bumpers, Sweepstick Heads, Sandroll Covering, and Lap Rolls.

Claims use since June 10, 1948.

Ser. No. 596,395. Crutcher-Rolfs-Cummings, Inc., Houston, Tex. Filed Apr. 27, 1950.

CRC

For Pipe Coating and Wrapping Machines, Bending Machines, Cleaning Machines, Beveling Machines, and Pipe Supporting and Hoisting Machines.

Claims use since Nov. 15, 1933.

Ser. No. 597,863. Pneumatic Scale Corporation, Limited, Quincy, Mass. Filed Apr. 18, 1950. (Sec. 2f.)

PNEUMATIC

Applicant claims ownership of Registrations Nos. 161,590 and 560,127.

For Mechanically Operated Packaging Machinery—Namely, Carton Feeding Machines, Carton Lining Machines, Bottom Sealing Machines, Top Sealing Machines, Labeling Machines, Bag Flour Machines, Wrapping Machines, Tea Bag Machines, Volume Filling Machines, Miscellaneous Conveyors for Hand Packing, Combined Top Closure Machines, Double Package Maker Machines, Machine Attachments for Printing Dates on Containers, Coupon Feeding Machines, Package Accumulator Machines, Package Plunger Machines, Container Cleaning Machines, Container Filling Machines, Capping Machines, Cap Feeding Machines, and Corking Machines.

Claims use since on or about Jan. 1, 1904.

Ser. No. 598,839. Vern G. Ellen Company, Minneapolis, Minn. Filed June 9, 1950.

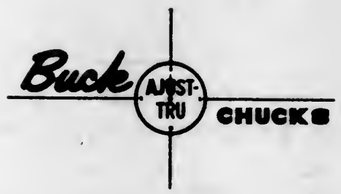


The words "Chain Conveyor" and the representation of the goods are disclaimed. The drawing is lined for gold.

For Material Handling Equipment—Namely, Conveyors, Elevators, Cranes, and Overhead and Portable Hoists.

Claims use since Jan. 2, 1944.

Ser. No. 607,617. Buck Tool Company, Kalamazoo, Mich. Filed Dec. 13, 1950. (Sec. 2f as to "Buck.")



The words "Chucks" and "Ajust-Tru" and the representation of the goods are disclaimed.

For Adaptable Lathe and Universal Chucks.

Claims use since Nov. 4, 1950, as to the mark shown; and since Mar. 15, 1943, as to the mark "Buck."

Ser. No. 611,006. Wolf Engineering Corporation, Dallas, Tex. Filed Mar. 7, 1951.

DYNASSIST

For Internal Combustion Engines for Automotive Use.

Claims use since Mar. 15, 1950.

Ser. No. 614,460. Paper Machinery and Research, Inc., Roselle, N. J. Filed May 28, 1951.

PAMARCO

For Electronic Printing Presses for Printing on Paper, Cellophane, Acetate, and Pressure Sensitive Tapes.

Claims use since May 28, 1946.

Ser. No. 614,977. Ammco Tools, Inc., North Chicago, Ill. Filed June 9, 1951.

AMMCO

Applicant claims ownership of Registrations Nos. 282,012, 282,013, and others.

For Brake Shoe Grinders, Valve Tappet Grinders, Valve Tappet Screw Grinders, Valve Lifter Grinders, Brake Piston Injectors and Rocker Arm Grinders.

Claims use since Nov. 22, 1949.

Ser. No. 616,385. Practical Products Co., Minneapolis, Minn. Filed July 12, 1951.

SodaShoppe

The word "Soda" is disclaimed.

For Coin-Operated Soft Drink Dispensing Machines.

Claims use since June 1950.

Ser. No. 616,767. The Jeffrey Manufacturing Company, Columbus, Ohio. Filed July 21, 1951.

MOLVEYOR

For Conveyors Used To Convey Coal or the Like From Loaders; Continuous Mining Machines.

Claims use since Jan. 31, 1951.

Ser. No. 621,261. Duro Metal Products Co., Chicago, Ill. Filed Nov. 15, 1951.

DUROLITE

Applicant claims ownership of Registrations Nos. 285,395, 298,973, and others.

For Hand Tools—Namely, Hammers, Mallets, Mallet Tips, Spark-Testing Screw Drivers, and Spinner Drivers.

Claims use since June 15, 1932.

Ser. No. 623,305. Hydropress, Inc., New York, N. Y. Filed Jan. 8, 1952.

MARFORM

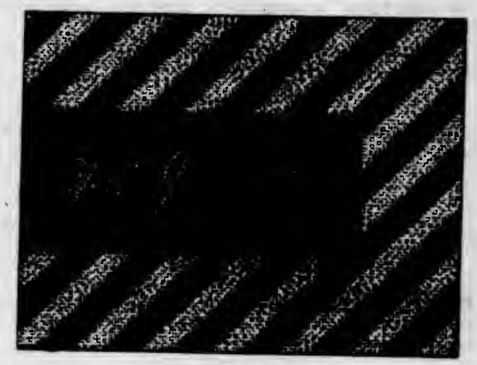
For Presses for Drawing Metals.

Claims use since Jan. 6, 1950.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 611,386. United States Hoffman Machinery Corporation, Syracuse and New York, N. Y. Filed Mar. 15, 1951.



The mark consists of the words "Yello Jacquet," lettered in yellow upon a black background, bordered by diagonal alternate yellow and black stripes, the drawing being lined to indicate yellow.

For Press Pads and Covers.

Claims use since Oct. 18, 1950.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 583,680. Aaron Davis, Harwichport, Cape Cod, Mass. Filed Aug. 19, 1949.

Cape Cod

For Weather Measuring Instruments and Indicators—Namely, Anemoscopes, Wind Direction and Wind Speed Indicators.

Claims use since Feb. 16, 1949.

Ser. No. 588,611. U. S. Sliging Machine Company, Inc., La Porte, Ind. Filed Nov. 30, 1949. (Sec. 2f.)

STANDARD COMPUTING SCALE

The words "Computing Scale" are disclaimed.

For Weighing and Computing Scales.

Claims use since Apr. 8, 1899.

Ser. No. 604,561. Burke & James, Inc., Chicago, Ill. Filed Oct. 7, 1950.

Welti

For Cameras.

Claims use since Jan. 1, 1935.

Ser. No. 607,478. Barnett & Jaffe, Philadelphia, Pa. Filed Dec. 9, 1950.

Versafile

For Photographic Slide File Cases.

Claims use since Nov. 3, 1950.

Ser. No. 610,471. Soft-Lite Lens Company, Inc., New York, N. Y. Filed Feb. 23, 1951.

Sport-Lite

The word "Lite" is disclaimed. Applicant claims ownership of Registration No. 268,820.
For Ophthalmic Lenses and Blanks.
Claims use since Sept. 21, 1929.

Ser. No. 616,800. Paulson Manufacturing Company, Fallbrook, Calif. Filed July 23, 1951.

SPACE SHIELD

The term "Shield" is disclaimed.
For Goggles.
Claims use since May 3, 1951.

Ser. No. 625,630. Rich-Roth Laboratories, East Hartford, Conn. Filed Feb. 27, 1952.

ULTRA-VISCOSON

For Instrument Comprising a Probe and Electronic Computer for Determining Physical Properties of Fluid-Like Materials, Especially the Viscosity Thereof.
Claims use since Jan. 2, 1951.

Ser. No. 625,640. Tacro, Incorporated, New York, N. Y. Filed Feb. 27, 1952.

IMPERIAL

For Field Glasses.
Claims use since Oct. 5, 1949.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 601,351. The Ellmore Silver Co., Inc., Meriden, Conn. Filed July 28, 1950.

SPORTRAY

For Trays or Coasters Made Partly of Sterling Silver and Partly of China.
Claims use since on or about May 31, 1950.

Ser. No. 616,744. W. & H. Jewelry Company, Providence, R. I. Filed July 20, 1951. (Sec. 2f.)

Harwood

Applicant claims ownership of Registration No. 367,687.
For Jewelry for Personal Wear, Not Including Watches—Namely, Bracelets, Watch Bracelets, Watch Chains, Tie Holders, Key Chains, Cuff Links, Scarf Pins, Collar Holders, Brooches, Finger Rings, Lockets, Crosses, Pendants, Ornamental Pins, Earrings, and Necklaces Made Wholly or Partially of Precious Metal.
Claims use since on or about Apr. 1, 1937.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 596,421. The A. S. Harrison Company, South Norwalk, Conn. Filed Apr. 27, 1950.

PREENER

Applicant claims ownership of Registration No. 427,115.
For Floor Mops.
Claims use since Aug. 5, 1949.

Ser. No. 597,916. Stanley Home Products, Inc., Westfield, Mass. Filed May 22, 1950.

AMAZO

For Mops.
Claims use since Nov. 15, 1949.

Ser. No. 607,701. Consolidated Manufacturing Corporation, New Orleans, La. Filed Dec. 15, 1950.

"Duchess"

For Mops—Namely, Floor Mops.
Claims use since on or about Sept. 29, 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 581,989. William Schenck & Company, Inc., Evans City, Pa. Filed July 14, 1949.

Step Saver

For Kitchen and Bathroom Cabinets and Kitchen Counter Tops.
Claims use since Aug. 1, 1947.

Ser. No. 617,347. Illinois Fibre Specialty Company, Chicago, Ill. Filed Aug. 4, 1951.

TEPLAT

For Fibre Board Padding for Chair Backs and Seats, Tables, and Upholstered Furniture.
Claims use since Jan. 1, 1950.

Ser. No. 618,826. Consider H. Willett, Inc., Louisville, Ky. Filed Sept. 14, 1951.

ELSWICK

For (1) Dining Room Furniture—Namely, Buffets, Tables, Chairs, China Cupboards, Servers and Corner Cabinets; (2) Bedroom Furniture—Namely, Chests, Dressers, Vanities, Night Stands, Dressing Tables, Mirrors, Beds, Bed Canopies and Benches; and (3) Miscellaneous Household Furniture—Namely, End, Lamp, Drop-Leaf, Coffee and Television Tables; Desks, Sofas, Chairs, Love Seats, and Ottomans.
Claims use since Jan. 23, 1950.

Ser. No. 624,556. Modern Metal Products Company, Greensboro, N. C. Filed Fep. 5, 1952.

SELOIL

For Oil Display-Service Cabinets.
Claims use since Mar. 15, 1948.

Ser. No. 625,413. The Englander Company, Inc., Chicago, Ill. Filed Fep. 23, 1952.

Aristo-Foam

The word "Foam" is disclaimed. Applicant claims ownership of Registration No. 372,499.
For Mattresses and Box Springs.
Claims use since Dec. 10, 1951.

Ser. No. 626,954. Marguerite M. Patterson, Los Angeles, Calif. Filed Mar. 24, 1952.

"Bye-Bye-Buntee"

For Infant's Combined Sleeping Bag and Cushion.
Claims use since August 1950.

CLASS 33

GLASSWARE

Ser. No. 603,488. McKee Glass Company, Jeannette, Pa., now by merger Thatcher Glass Manufacturing Company, Inc., a corporation of New York. Filed Sept. 13, 1950.



The term "Coffee" and the outline of a cross-sectional view of the goods are disclaimed. Applicant claims ownership of Registrations Nos. 117,679 and 405,440.
For Glass Carafes.
Claims use since Nov. 5, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 627,830. Orr & Sembower, Inc., Reading, Pa. Filed Apr. 9, 1952.

VORTFLOW

For Fluid Fuel Burners.
Claims use since Dec. 21, 1951.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 628,574. The Singer Manufacturing Company, Elizabeth, N. J. Filed Apr. 23, 1952.



The representation of the lady is fanciful. The representation of the sewing machine is disclaimed. Applicant claims ownership of Registrations Nos. 74,186, 74,187, and others.
For V-Belts, Cord Belts, Composition Belts, Round Leather Belts, and Power Transmission Belting.
Claims use since 1870.

CLASS 37

PAPER AND STATIONERY

Ser. No. 553,058. American Reenforced Paper Company, Attleboro, Mass. Filed Mar. 26, 1948. (Sec. 2f.)

SISALKRAFT

Applicant claims ownership of Registrations Nos. 209,188 and 285,207.
For Reenforced Paper.
Claims use since April 1928.

Ser. No. 584,501. Richard L. Meyer, doing business as R-L-M Printing Company, Minot, N. Dak. Filed Sept. 6, 1949.

"PICA PETE"

For Letter Heads, Partially Printed Statement Sheets, Partially Printed Labels, and Correspondence Envelopes.
Claims use since June 1, 1949.

Ser. No. 584,502. Richard L. Meyer, doing business as R-L-M Printing Company, Minot, N. Dak. Filed Sept. 6, 1949.



For Letter Heads, Partially Printed Statement Sheets, Partially Printed Labels, and Correspondence Envelopes.
Claims use since June 1, 1949.

Ser. No. 584,990. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Sept. 17, 1949.

SCOTCH

Applicant claims ownership of Registrations Nos. 503,908, 503,709, and others.
For Masking Paper for Use in Painting Operations To Protect an Area Not To Be Painted or To Be Painted a Different Color.
Claims use since July 1949.

Ser. No. 593,490. Eugenie J. Jones, Webster Groves, Mo. Filed Mar. 6, 1950.

GLAMOUR GIRL SERIES

The words "Girl" and "Series" are disclaimed.
For Note-Paper.
Claims use since Jan. 21, 1950.

Ser. No. 601,320. Fernstrom Paper Mills, Inc., Pomona, Calif. Filed July 27, 1950.

FERN

For Paper Napkins, Paper Fruit Wrappers, Waxed Paper, and Toilet Tissues.
Claims use since May 3, 1948.

Ser. No. 604,268. W. A. Sheaffer Pen Company, Fort Madison, Iowa. Filed Sept. 30, 1950.

TM

For Fountain Pens, Mechanical Pencils, and Ball Point Pens.
Claims use since Jan. 24, 1950.

Ser. No. 611,138. Modern Tissues Corp., New York, N. Y. Filed Mar. 10, 1951. (Sec. 2f.)

MODERNE

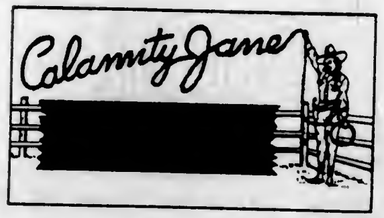
Applicant claims ownership of Registrations Nos. 340,561 and 401,085.
For Facial Tissues, Toilet Tissues, and Paper Towels.
Claims use since 1928.

Ser. No. 615,927. Ditto, Incorporated, Chicago, Ill. Filed June 30, 1951.

Ⓓ Dittoforms

Applicant claims ownership of Registration No. 518,433.
For Partially Printed Business Forms.
Claims use since Jan. 20, 1950.

Ser. No. 617,857. Donald Barry Productions, Inc., Los Angeles, Calif. Filed Aug. 20, 1951.



The portrait of the woman is fanciful. "Calamity Jane" is the popular name of Martha Jane Canary Burke, 1852–1903.
For Boxes of Pencils.
Claims use since July 5, 1951.

Ser. No. 618,016. United Wallpaper, Inc., Chicago, Ill. Filed Aug. 23, 1951.

tropical texture

The word "Texture" is disclaimed.
For Wallpaper.
Claims use since June 22, 1951.

Ser. No. 622,148. Donovan Enterprises, Saugatuck, Conn. Filed Dec. 6, 1951.

DIARY-DO AND DIARY-DID

The word "Diary" is disclaimed.
For Diaries.
Claims use since Aug. 15, 1951.

Ser. No. 622,228. Saxon Paper Products Inc., New York, N. Y. Filed Dec. 7, 1951.

Esquire Bond

The word "Bond" is disclaimed. Applicant claims ownership of Registration No. 297,538.
For Bond Paper.
Claims use since Sept. 20, 1931.

Ser. No. 622,546. Kingston Pencil Corporation, Chattanooga, Tenn. Filed Dec. 15, 1951.

KING-GLO

The word "Glo" is disclaimed.
For Nonmechanical Pencils.
Claims use since Nov. 30, 1950.

Ser. No. 623,187. Erving Paper Mills, Erving, Mass. Filed Jan. 4, 1952.

PIONEER VALLEY

For Paper Napkins.
Claims use since Sept. 19, 1951.

Ser. No. 623,870. Binney & Smith Company, New York, N. Y. Filed Jan. 22, 1952. (Sec. 2f.)

ANTI-DUST

For Chalk Crayon.
Claims use since 1916.

Ser. No. 625,176. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

WESTROLL

For Paper Towels and Toilet Tissue.
Claims use since Mar. 1, 1948.

Ser. No. 625,269. Alphons J. Hackl, Washington, D. C. Filed Feb. 20, 1952.

Picto-Chrome

The word "Chrome" is disclaimed.
For Mailing Envelopes, Writing Paper.
Claims use since Feb. 14, 1952.

Ser. No. 626,318. Erving Paper Mills, Erving, Mass. Filed Mar. 12, 1952.

Hi-line

The word "Line" is disclaimed.
For Paper Napkins, Toilet Paper, and Paper Towels.
Claims use since during June 1949.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 585,623. American Bank Note Company, New York, N. Y. Filed Oct. 1, 1949. (Sec. 2f.)



The dates "1795–1879" are disclaimed.
For Imprints Representing Currency or Value—Namely, Bank Notes; Postage and Revenue Stamps; Identification Imprints Which Carry Text Matter and Which Include Ornamental, Decorative or Embellished Design, Specifically Manufacturer's Identifying Tags, Admission Tickets, and Container Labels; Bonds, Debentures and Like Participation Certificates Representing Indebtedness; Stock, Scrip, Stock Warrant, Voting Trust and Like Participation Certificates Representing Interest in a Property or Enterprise; All Sold as Such.
Claims use since 1879 as shown; and since 1858 as to certain features—viz., representation of an eagle's head on a circular background carrying some stars and surrounded by the name American Bank Note Company in circular arrangement.

Ser. No. 585,625. American Bank Note Company, New York, N. Y. Filed Oct. 1, 1949.



The dates "1795–1879" are disclaimed.
For Imprints Representing Currency or Value—Namely, Bank Notes; Postage and Revenue Stamps; Identification Imprints Which Carry Text Matter and Which Include Ornamental, Decorative or Embellished Design, Specifically Manufacturer's Identifying Tags, Admission Tickets, and Container Labels; Bonds, Debentures and Like Participation Certificates Representing Indebtedness; Stock, Scrip, Stock Warrant, Voting Trust and Like Participation Certificates Representing Interest in a Property or Enterprise; All Sold as Such.
Claims use since 1879 as shown; and since 1858 as to the representation of an eagle's head on a circular background carrying some stars.

Ser. No. 624,564. Northern Premium Stamp Company, Portland, Oreg. Filed Feb. 5, 1952.



The drawing is lined for green. The words "Stamp" and "Value 1 Mill" are disclaimed.
For Trading Stamps Sold as Such and for Books of Trading Stamps.
Claims use since June 16, 1950.

CLASS 39
CLOTHING

Ser. No. 585,974. National Shirt Shops of Delaware, Inc., New York, N. Y. Filed Sept. 7, 1949. (Sec. 2f.)

FASH-N-FORM

Applicant claims ownership of Registration No. 373,413.
For Men's Dress and Negligee Shirts and Underwear.
Claims use since Sept. 1, 1934.

Ser. No. 594,695. Arlis L. Crowther, North Hollywood, Calif. Filed Mar. 27, 1950.

hollywood *hed-topper*

The words "Hollywood" and "Hed" are disclaimed.
For Ladies' Treated Cloth Head Coverings.
Claims use since on or about Jan. 1, 1950.

Ser. No. 609,191. Tam O'Shanter Sportswear, Inc., Manchester, N. H. Filed Jan. 24, 1951.

Tam-Tee

The word "Tee" is disclaimed.
For Polo Shirts and Shorts, and Sets Thereof.
Claims use since Oct. 27, 1950.

Ser. No. 609,482. Margaret Winter Johnston, Fort Worth, Tex. Filed Feb. 1, 1951.

"MY OWN NAME"

For Children's Jackets, Children's Overalls, and Children's Boxer Shorts.
Claims use since Nov. 29, 1949.

Ser. No. 612,417. Rosenblatt and Kahn, Inc., New York, N. Y. Filed Apr. 9, 1951.

Scottie Shag
By Bamburg

The word "Shag" is disclaimed.
For Children's Coats, Snow Suits, Suits, Dresses, Pajamas, and Playsuits.
Claims use since Dec. 8, 1947.

Ser. No. 617,045. Harry Margolin Shirt Corporation, New York, N. Y. Filed July 27, 1951.

Sunsheen

For Men's and Boys' Dress and Sport Shirts.
Claims use since June 11, 1951.

Ser. No. 619,185. Marcus Breier Sons, Inc., Amsterdam, N. Y. Filed Sept. 25, 1951.

BANTAMAC  **BANTAMATES**

The lining on the drawing is for shading only. Applicant claims ownership of Registration No. 361,448.
For Men's and Women's Jackets and Trousers.
Claims use since July 10, 1951.

Ser. No. 619,578. Lexington Manufacturing Company, Lexington, N. C. Filed Oct. 4, 1951.

Lord Lex

The mark "Lord Lex" is fanciful. Applicant claims ownership of Registration No. 298,270.
For Men's Sportshirts.
Claims use since Sept. 12, 1951.

Ser. No. 620,593. The Eastern Isles, Inc., New York, N. Y. Filed Oct. 29, 1951.

TOM GIRL

Applicant claims ownership of Registration No. 343,908.
For Women's and Children's Garments—Namely, Pajamas, Beach and Lounging Robes and Slacks, Nightgowns, Blouses, Dresses, Bedjackets, Slips, Panties, Petticoats, Negligees, and Scuffs.
Claims use since June 15, 1936.

Ser. No. 622,984. Blue Bell, Inc., Greensboro, N. C. Filed Dec. 29, 1951.

SILVER STREAK



The drawing is lined for the colors red and silver.
For Men's and Boys' Overalls, Dungarees, and Outer Shirts.
Claims use since June 16, 1950.

Ser. No. 622,986. Blue Bell, Inc., Greensboro, N. C. Filed Dec. 29, 1951.

SILVER STREAK



The drawing is lined for red.
For Kiddies' and Girls' Dungarees, Overalls, and Boxer Longies.
Claims use since Aug. 20, 1951.

Ser. No. 623,133. Federated Department Stores, Inc., Cincinnati, Ohio. Filed Jan. 3, 1952.

Fedway

For Men's Clothing, Specifically Suits, Tuxedos, Robes, Topcoats, Overcoats, Raincoats and Rainhats, Shirts, Pajamas, Underwear, Specifically T-Shirts, Shorts, Unionsuits, Athletic Shirts; Hosiery, Necktles, Mufflers, Scarfs, Gloves Made of Leather or Fabric, Garters, Belts, Suspenders, Sweaters, Sportcoats, Slacks, Hats and Caps, Blue Jeans, Swim Trunks, Mackinaws, Trousers, Shoes Made From Leather, Fabric, Rubber, and Combinations of These Materials, Rubbers, Slippers; Women's Clothing, Specifically Dresses, Jumpers, Skirts, Suits, Coats, Rainwear, Specifically Coats, Capes, Hats; Sweaters, Beach Wear, Specifically Bathing Suits and Robes; Blouses, Jeans, Slacks, Shorts, Halters, Slips, Petticoats, Nightgowns, Pajamas, Pants, Girdles, Brassières, Garter Belts, Robes, Chemises, Corsets, Housecoats, Bed Jackets, Uniforms (Maids and Nurses), Hosiery, Anklets, Bed Socks, Wraps, Jackets, Storm Coats, Furs (Capes, Jackets, Coats and Scarfs), Hair Nets, Collars, Shawls, Turbans, Gloves Made of Leather or Fabric, Mittens, Shoes Made From Leather, Fabric, Rubber, and Combinations of These Materials, Galoshes, Aprons and Smocks; Children's Clothing, Specifically Diapers, Shirts, Bands, Bibs, Gowns, Buntings, Dresses, Crawlers, Creepers, Suits, Booties, Sweaters, Shoes Made From Leather, Fabric, Rubber and Combinations of These Materials, Anklets, Sleepers, Training Pants, Coats, Pants, Shorts, Jackets, Raincoats, Snowsuits, Jeans, Bathing Suits, Robes, Caps, Ties, Belts, Gloves Made of Leather or Fabric, Mittens, Pinafores, Jumpers, Blouses, Skirts, Slacks, Pajamas, Slips, Hats, Rubber Boots, and Slippers.
Claims use since Dec. 12, 1951.

Ser. No. 624,407. Fred Freund Co. Inc., New York, N. Y. Filed Feb. 1, 1952.

Fredwin

For Jackets, Play Shirts, and Slacks for Men, Boys, and Women.
Claims use since Dec. 27, 1951.

Ser. No. 624,461. Blue Bell, Inc., Greensboro, N. C. Filed Feb. 4, 1952.

TUG TOGS

The word "Togs" is disclaimed.
For Children's Dungarees, Overalls, and Pants and Outer Shorts.
Claims use since Jan. 8, 1952.

Ser. No. 626,199. S. Cutler & Sons, Inc., New York, N. Y. Filed Mar. 10, 1952.

Maxell

For Ladies' Clothing—Namely, Fur Coats, Capes, and Jackets.
Claims use since Jan. 20, 1952.

Ser. No. 627,207. Mavest Inc., New York, N. Y. Filed Mar. 28, 1952.

Twickenham

For Men's Sport Jackets, Suits, and Coats.
Claims use since Mar. 17, 1952.

Ser. No. 628,282. Kurtsman Brothers, Los Angeles, Calif. Filed Apr. 18, 1952.

KALWEIGHT

For Men's Suits and Topcoats.
Claims use since Mar. 7, 1952.

Ser. No. 628,929. Eagle Clothes, Inc., New York, N. Y. Filed Apr. 30, 1952.

"6060"

For Men's Clothing—Namely, Coats, Topcoats, and Suits.
Claims use since Apr. 7, 1952.

Ser. No. 628,930. Eagle Clothes, Inc., New York, N. Y. Filed Apr. 30, 1952.

"8080"

For Men's Clothing—Namely, Coats, Topcoats, and Suits.
Claims use since Dec. 5, 1951.

CLASS 42
KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 584,739. The Abel Corporation, Columbus, Ohio. Filed Sept. 13, 1949.

Regaloom

For Woolen Robes for the Lap and General Uses.
Claims use since Sept. 1, 1948.

Ser. No. 608,255. Anna Veronica Markiewicz, St. Louis, Mo. Filed Dec. 30, 1950.

"Tastidious"

For Textile Mats To Fit Around Toilet Bases.
Claims use since Dec. 9, 1950.

Ser. No. 615,369. Chicopee Manufacturing Corporation of New Hampshire, New Brunswick, N. J., assignor to Chicopee Mills, Inc., New York, N. Y., a corporation of New York. Filed June 19, 1951.



For Non-Woven Textile Fabric of Cotton and/or Synthetic Fibers, Towels and Napkins.
Claims use since Aug. 8, 1950.

Ser. No. 615,464. Robbins Mills, Inc., New York, N. Y. Filed June 20, 1951.

Jamaica Breeze for That Linen Look

The words "Jamaica" and "For That Linen Look" are disclaimed.
For Piece Goods of Cotton, Wool, Synthetic Fibre, and Combinations Thereof.
Claims use since June 19, 1951.

Ser. No. 615,810. Bachmann Uxbridge Worsted Corporation, New York, N. Y. Filed June 28, 1951.

VINTAGE TINTS

The word "Tints" is disclaimed.
For Tropical Worsted Fabrics in the Piece.
Claims use since June 11, 1951.

Ser. No. 630,016. National Sure-Fit Quilting Co. Inc., New York, N. Y. Filed May 21, 1952.

Gibraltar

For Quilted Mattress Pads and Protectors.
Claims use since 1920.

Ser. No. 630,332. Miron Mills, Inc., Clinton, Mass. Filed May 27, 1952.

MIRAFLECK

For Woolen Piece Goods.
Claims use since Jan. 16, 1952.

Ser. No. 630,333. Miron Mills, Inc., Clinton, Mass. Filed May 27, 1952.

MIRANZA

For Woolen Piece Goods.
Claims use since Apr. 14, 1952.

Ser. No. 630,334. Miron Mills, Inc., Clinton, Mass. Filed May 27, 1952.

MIRLASSE

For Woolen Piece Goods.
Claims use since Jan. 19, 1952.

Ser. No. 630,343. Oberman Fabrics, Inc., New York, N. Y. Filed May 27, 1952.

BARCAROLE

For Piece Goods of Silk, Rayon, Cotton, Synthetic Fibres, and Mixtures Thereof.
Claims use since on or about Dec. 13, 1951.

Ser. No. 630,491. Goodman & Theise, Inc., New York, N. Y. Filed May 29, 1952.

RESISTARE

For Piece Goods of Rayon, Nylon, Silk, Cotton, Wool, and Combinations Thereof.
Claims use since Feb. 12, 1952.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 589,101. Ralph D. McCormack, doing business as Dairy Hi Products Company, Atlanta, Ga. Filed Dec. 9, 1949.

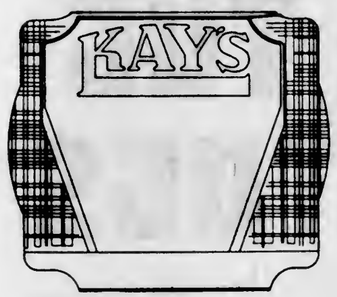
DAIRY HI

For Chocolate Flavored Maltless Soft Drink.
Claims use since on or about Oct. 31, 1949.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 532,523. Arthur Suprise, doing business as Kay Cookie Company, Memphis, Tenn. Filed Aug. 26, 1947.



For Cookies.
Claims use since Nov. 20, 1946.

Ser. No. 532,525. Arthur Suprise, doing business as Kay Cookie Company, Memphis, Tenn. Filed Aug. 26, 1947.



The drawing is lined for yellow, red, and blue.
For Cookies.
Claims use since Nov. 20, 1946.

Ser. No. 532,526. Arthur Suprise, doing business as Kay Cookie Company, Memphis, Tenn. Filed Aug. 26, 1947.



For Cookies.
Claims use since Nov. 20, 1946.

Ser. No. 554,105. Fulton Smoked Fish Company, Chicago, Ill. Filed Apr. 8, 1948. (Sec. 2f.)

Barbequed YUKON COAST

The word "Barbequed" is disclaimed. Applicant claims ownership of Registration No. 289,761.
For Smoked Salmon.
Claims use since Oct. 1, 1929.

Ser. No. 570,345. Zion Industries, Inc., Zion, Ill. Filed Dec. 10, 1948.

Betty Marie

For Candy.
Claims use since Apr. 15, 1930.

Ser. No. 571,308. Zion Industries, Inc., Zion, Ill. Filed Dec. 29, 1948.

Fig & Pie

The word "Fig" is disclaimed. Applicant claims ownership of Registration No. 418,658.
For Candy Bars.
Claims use since 1922.

Ser. No. 581,628. Tip Top Foods of San Francisco, Inc., Emeryville, Calif. Filed July 7, 1949.

Tip Top

For Aerated Food Product—Viz: Whipcream.
Claims use since September 1948.

Ser. No. 584,194. J. J. Gielow & Sons, Inc., Detroit, Mich. Filed Aug. 29, 1949.

PRAWDZIWY
WIEJSKI WYRÓB

The word "Wyrob" is disclaimed. The trade-mark "Prawdziwy Wiejski Wyrob" means "Real Rural Brand."
For Pickles.
Claims use since May 1949.

Ser. No. 587,976. Robinson Syrup Co. Inc., Cairo, Ga. Filed Nov. 17, 1949. (Sec. 2f—Additional evidence.) CONCURRENT USE with Registration No. 339,510 for the area comprising States east of the Mississippi River, not including Minnesota.

FLAPJACK

For Table Syrup.
Claims use since November 1929.

Ser. No. 590,124. The Vita-Food Corporation, Los Angeles, Calif. Filed Nov. 4, 1949.



The drawing is lined for the color blue.
For Cookies and Vitamin Fortified Cookies.
Claims use since Dec. 2, 1942.

Ser. No. 598,759. Lee E. Stine, trading as Popcorn Processing Company, Hagerstown, Md. Filed June 7, 1950.



The word "Reddie" is disclaimed. The figure shown is a fanciful representation of a girl band leader.
For Raw Pop Corn and Popped Pop Corn Popped With Cocoanut Oil and Salt.
Claims use since Mar. 1, 1950.

Ser. No. 600,715. Atlas Powder Company, Wilmington, Del. Filed July 15, 1950.

ATMUL

Applicant claims ownership of Registration No. 525,042.
For Food Emulsifiers Being Surface Active Esters and Ethers of Polyhydric Alcohols Without Limiting the Generality of the Foregoing.
Claims use since June 5, 1950.

Ser. No. 600,765. Consolidated Grocers Corporation, Chicago, Ill. Filed July 17, 1950. (Sec. 2f as to "Stuart.")

BABY STUART

Applicant claims ownership of Registration No. 98,325.
For Canned Fruits and Canned Vegetables.
Claims use since Jan. 27, 1914.

Ser. No. 601,108. Kraft Walker Cheese Company Proprietary Limited, South Melbourne, Victoria, Australia, now by change of name Kraft Foods Limited. Filed July 22, 1950.

LAITO

Applicant claims ownership of Australian Registration No. 91,989, dated July 16, 1947.
For Dried Milk Food.

Ser. No. 603,146. American Stores Company, Philadelphia, Pa. Filed Sept. 5, 1950.

CORNHUSKER

For Lard, Ring Bologna, Liver Sausage, Ham, Bacon, and Carcass Beef.
Claims use since Jan. 16, 1945.

Ser. No. 603,347. Adams Corporation, Korn Kurls Division, Beloit, Wis. Filed Sept. 9, 1950.

KURLY KUES

For Deep Fried, Cheese Flavored Potato and Tapioca Product in Puffed Form.
Claims use since Jan. 15, 1949.

Ser. No. 603,808. National Distillers Products Corporation, New York, N. Y. Filed Sept. 20, 1950.

PRODULAC

For Mixture of Distillers' Dried Grains and Solubles Derived From the Residue of Cereal Grains That Have Been Employed in the Distilling of Spirits, Which Is Primarily Used as an Ingredient of Cattle, Dog, Hog, Poultry, Sheep, and Other Live Stock Feeds.
Claims use since in or about February 1938.

Ser. No. 607,062. Acme-Evans Company, Inc., Indianapolis, Ind. Filed Nov. 29, 1950.

COOKIE KING

The word "Cookie" is disclaimed. Applicant claims ownership of Registration No. 62,189.
For Wheat Flour.
Claims use since on or about May 15, 1942.

Ser. No. 609,685. John W. Leavitt Company, Boston, Mass. Filed Feb. 6, 1951.



TEDDIE

Applicant claims ownership of Registration No. 430,230.
For Peanut Butter, Salted Nut Meats, and Candy.
Claims use since June 1949.

Ser. No. 610,091. The Ohio Confection Company, also doing business as Ohio Confection Sales Co., Cleveland, Ohio. Filed Feb. 14, 1951.

Citation

For Assorted Candies.
Claims use since Oct. 12, 1950.

Ser. No. 611,439. Knudsen Creamery Co. of California, Los Angeles, Calif. Filed Mar. 16, 1951.

VELVET
BRAND

The word "Brand" is disclaimed. Applicant claims ownership of Registration No. 219,385.
For Dairy Products—Namely, Cheese.
Claims use since April 1923.

Ser. No. 612,166. Hansche Produce Company, Racine, Wis. Filed Apr. 3, 1951.

SPRING LAKE

For Potatoes and Onions in Their Natural State.
Claims use since December 1949.

Ser. No. 613,044. Bel Paese Sales Co. Inc., New York, N. Y. Filed Apr. 24, 1951.

CERTOSA

For Cheese.
Claims use since Jan. 5, 1927.

Ser. No. 614,257. Lipscomb Grain & Seed Co. Inc., doing business under the style name of Lipscomb Grain & Seed Co., Springfield, Mo. Filed May 23, 1951. (Sec. 2f.)



The drawing is lined for blue, red, orange, and yellow.
Applicant claims ownership of Registration No. 258,207.
For Hog Feeds, Dairy Feed, Poultry Feed, Rabbit Feeds, Horse and Mule Feeds, and Corn Meal.
Claims use since Aug. 1, 1928.

Ser. No. 615,123. Grete Koesling, New York, N. Y., assignor to Your Birth-Sign, Inc., New York, N. Y., a corporation of New York. Filed June 13, 1951.

Your
★
Birth-Sign

For Candy.
Claims use since May 3, 1951.

Ser. No. 615,393. The Nestlé Company, Inc., Colorado Springs, Colo. Filed June 19, 1951.

Manzarina

For Dehydrated Food Product Consisting of Powdered Apple Purée Combined With Malted Wheat Flour, Sugar, and Milk, With Vitamins A, B, and D Added (Not Containing Corn Starch or Corn Flour).
Claims use since Feb. 26, 1951.

Ser. No. 618,129. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Filed Aug. 27, 1951.

CAPTAINS CHOICE

The word "Choice" is disclaimed.
For Frozen Fish.
Claims use since Apr. 14, 1950.

Ser. No. 618,963. Griggs, Cooper & Company, St. Paul, Minn. Filed Sept. 19, 1951.

ULIKEM

For Olives, Fruit Preserves, Jams, Jellies, and Peanut Butter.
Claims use since Jan. 8, 1935.

Ser. No. 619,390. Charles Killgore Company, Inc., Yonkers, N. Y. Filed Sept. 29, 1951.

Frenchette

For Salad Dressing for Low Calorie Diets.
Claims use since May 14, 1951.

Ser. No. 619,737. Frank Cappiello, Schenectady, N. Y. Filed Oct. 9, 1951.



All wording shown on the drawing is disclaimed except "Frank Cappiello." A fair translation of "Ricotta" is "Cream Cheese" and a fair translation of "Finissima" is "Finest."
For Cheese.
Claims use since May 15, 1936.

Ser. No. 619,953. Standard Brands Incorporated, New York, N. Y. Filed Oct. 12, 1951.

ROYAL

Applicant claims ownership of Registrations Nos. 63,538, 135,855, 354,735, and 357,923.
For Dough Improver in Powdered Form Consisting of Mineral Salts and a Cereal Filler Used as an Ingredient of Bread.
Claims use since Sept. 14, 1951.

Ser. No. 620,050. Suchard Holding Societe Anonyme, Lausanne, Switzerland. Filed Oct. 16, 1951.

Sue Shard

The mark "Sue Shard" is not the name of any particular living individual. Applicant claims ownership of Registrations Nos. 54,480, 295,214, and others.
For Prepared Edible Chocolate.
Claims use since Oct. 30, 1946, and since Oct. 30, 1946 in interstate commerce.

Ser. No. 620,051. Suchard Holding Societe Anonyme, Lausanne, Switzerland. Filed Oct. 16, 1951. (Sec. 2f.)

Suchard

Applicant claims ownership of Registrations Nos. 54,480, 295,214, and others.
For Prepared Edible Chocolate.
Claims use since Oct. 30, 1946, in the form shown in the United States; since Oct. 30, 1946, in interstate commerce; claims use since 1861 in Switzerland; and since 1861 in commerce between foreign nations and the United States.

Ser. No. 620,052. Suchard Holding Societe Anonyme, Lausanne, Switzerland. Filed Oct. 16, 1951.

Bittra

Applicant claims ownership of Registration No. 134,285.
For Prepared Edible Chocolate.
Claims use since Dec. 12, 1945.

Ser. No. 620,055. Suchard Holding Societe Anonyme, Lausanne, Switzerland. Filed Oct. 16, 1951.



The mark "Sue Shard" is not the name of any particular living individual, and the representation of the girl is fanciful. The representation of a chocolate bar is disclaimed. Applicant claims ownership of Registrations Nos. 54,480, 295,214, and others.
For Prepared Edible Chocolate.
Claims use since Oct. 30, 1946; and since Oct. 30, 1946, in interstate commerce.

Ser. No. 620,859. Safeway Stores, Incorporated, Oakland, Calif. Filed Nov. 3, 1951.

NIP'N TUCK

For Canned Cat Food.
Claims use since Oct. 5, 1951.

Ser. No. 621,182. Weston Biscuit Company Inc., Passaic, N. J. Filed Nov. 13, 1951.

OCEAN CRISPS

The word "Crisps" is disclaimed.
For Crackers.
Claims use since Oct. 5, 1951.

Ser. No. 622,743. Hardeman Milling Company, McAlester, Okla. Filed Dec. 21, 1951.



The words "The Feed They Need" are disclaimed. The drawing is lined for red and blue. Applicant claims ownership of Registration No. 551,864.
For Hen Feed, Comprised of Cracked Corn, Wheat, Kaffir, and Milo Maize; and Dairy Feed and Poultry Feed Both Comprised of Cottonseed Meal, Soybean Meal, Oats, Corn, Wheat Shorts, Wheat Bran, Alfalfa Meal, and Yeast.
Claims use since October 1933.

Ser. No. 623,890. Hygrade Food Products Corporation, Detroit, Mich. Filed Jan. 22, 1952.

White Lily

Applicant claims ownership of Registrations Nos. 20,631, 40,452, and others.
For Pasteurized Process Cheese Spread.
Claims use since Dec. 7, 1951, as shown; and first use on July 23, 1951.

Ser. No. 624,738. General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Filed Feb. 9, 1952.



The drawing is lined for yellow. Applicant claims ownership of Registrations Nos. 13,253, 61,763, and others.
For Wheat Flour.
Claims use since Jan. 23, 1952.

Ser. No. 624,760. Otto Roth & Co., Inc., New York, N. Y. Filed Feb. 9, 1952.

GOODLAND

For Cheese.
Claims use since Jan. 17, 1952.

Ser. No. 624,899. Romanoff Caviar Company, New York, N. Y. Filed Feb. 13, 1952.

MBT

For Preparation for Making a Drink Having a Mock Beef Flavor.
Claims use since Jan. 16, 1952.

Ser. No. 624,935. Del-Mint, Inc., Philadelphia, Pa. Filed Feb. 14, 1952.

Chlorodel-Mints

The word "Mints" is disclaimed.
For Creamy Cushion Mint Candy.
Claims use since Jan. 25, 1952.

Ser. No. 626,644. The Smithfield Packing Company, Incorporated, Smithfield, Va. Filed Mar. 18, 1952. (Sec. 2f.)

LUTER'S

Applicant claims ownership of Registrations Nos. 549,134, 549,135, and 555,202.
For Bacon, Sausage, Cured Ham, Lard, Cooked Ham, Pork Shoulder Butts, Pork Shoulder Picnics, Smoked Pork Backs, Bologna, Salami, Frankfurters, Pork Feet, Pork Hocks.
Claims use since 1936.

Ser. No. 626,890. Harry S. La Poff, Paterson, N. J. Filed Mar. 22, 1952.

PARSLETTE

For Fresh Parsley.
Claims use since Feb. 19, 1952.

Ser. No. 627,690. Leaf Brands, Inc., Chicago, Ill. Filed Apr. 7, 1952.

LEAF

Applicant claims ownership of Registration No. 531,421.
For Candy and Cookies.
Claims use since Feb. 2, 1947.

Ser. No. 628,084. Fleetwood Coffee Co., Chattanooga, Tenn. Filed Apr. 11, 1952.



Applicant claims ownership of Registration No. 299,020.
For Coffee.
Claims use since Dec. 31, 1929.

Ser. No. 628,296. Safeway Stores, Incorporated, Oakland, Calif. Filed Apr. 18, 1952.

COTILLION

For Ice Cream.
Claims use since Dec. 19, 1951.

Ser. No. 628,506. Peoples Drug Stores, Inc., Washington, D. C. Filed Apr. 22, 1952.

Ocean Fresh

The word "Fresh" is disclaimed.
For Candy.
Claims use since Mar. 10, 1952.

Ser. No. 628,829. Safeway Stores, Incorporated, Oakland, Calif. Filed Apr. 28, 1952.

PackTrain

For Table Syrup.
Claims use since Mar. 9, 1951.

Ser. No. 628,845. Chicken Delight Inc., Rock Island, Ill. Filed Apr. 29, 1952.



The representation of the goods is disclaimed.
For Cooked Chicken.
Claims use since July 20, 1951.

Ser. No. 628,846. Chicken Delight Inc., Rock Island, Ill. Filed Apr. 29, 1952.

CHICKEN DELIGHT

The word "Chicken" is disclaimed.
For Cooked Chicken.
Claims use since July 20, 1951.

Ser. No. 628,847. Chicken Delight Inc., Rock Island, Ill. Filed Apr. 29, 1952.



The representation of the goods and the word "Chicken" are disclaimed.
For Cooked Chicken.
Claims use since July 20, 1951.

Ser. No. 628,939. The Great Atlantic and Pacific Tea Company, New York, N. Y. Filed Apr. 30, 1952.



Applicant claims ownership of Registrations Nos. 62,926, 63,071, and others.
For Tea.
Claims use since September 1950.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 626,400. Molson's Brewery Limited, Montreal, Quebec, Canada. Filed Mar. 13, 1952.



Applicant claims ownership of Registrations Nos. 312,132, 312,154, and others.
For Ale and Porter.
Claims use since 1863; and since in or about the year 1933 in commerce between the United States and Canada.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 607,389. Allan P. Lindblad, doing business as Sudbury Brass Goods Company, Boston, Mass.; Madeleine Lindblad, Winchester, and Harold N. Anderson, Arlington, Mass., executors of said Allan P. Lindblad, deceased. Filed Dec. 7, 1950. (Sec. 2f.)

Sudbury

For Altar Sets Including Altar Crosses, Altar Candlesticks, and Altar Vases Sold as a Set, Communion Sets Including Trays, Covers, Vases, Bread Plates, and Baptismal Bowls Sold as a Set, Offering Plates, and Votive Emblems (Stands Decorated With Religious Emblems and Containing Holders for Candles).
Claims use since December 1923.

Ser. No. 623,976. Moeller Mfg. Co., Inc., Racine, Wis. Filed Jan. 23, 1952. (Sec. 2f.)

Snap-Tite

Applicant claims ownership of Registration No. 387,594.
For Stoppers for Vacuum and Other Bottles.
Claims use since November 1934.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 564,708. John H. Breck, Inc., Springfield, Mass. Filed Sept. 4, 1948.

Brexcene

For Hair Conditioning Cream.
Claims use since July 1, 1948.

Ser. No. 597,770. The Mennen Company, Newark, N. J. Filed May 19, 1950. (Sec. 2f as to "Mennen.")



The drawing is lined for the color green. The words "Cream Hair Oil" and the overall color background are disclaimed. Applicant claims ownership of Registrations Nos. 504,689, 505,807, and others.
For Hair Oil Preparation.
Claims use since Apr. 23, 1948 as to the mark shown; since July 12, 1889 as to the name "Mennen."

Ser. No. 597,771. The Mennen Company, Newark, N. J. Filed May 19, 1950. (Sec. 2f as to "Mennen.")



The drawing is lined for the colors green and red. The words "Lather Shave" and "Menthol" and the overall color background are disclaimed. Applicant claims ownership of Registrations Nos. 508,548, 123,623, and others.
For Shaving Creams.
Claims use since Feb. 9, 1948 as to the mark shown; since January 1926 as to the name "Mennen"; and since Aug. 30, 1928 as to the mark "Menthol-Iced."

Ser. No. 615,654. The Olivo Co., Inc., Philadelphia, Pa. Filed June 25, 1951.



Applicant claims ownership of Registration No. 245,369.
For Hair Oil Pomade, Hair Tonic, Face Lotion, Shave Cream, Lilac Water, Pressing Oil for the Hair, and Liquid Cream Oil.
Claims use since Mar. 1, 1922.

Ser. No. 617,606. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

BALSAMOL

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Dec. 22, 1920.

Ser. No. 617,607. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

AMBROPHORE

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Sept. 2, 1947.

Ser. No. 617,608. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

CORINAL

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Feb. 25, 1948.

Ser. No. 617,609. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

FLORILYS

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery
Claims use since Aug. 5, 1936.

Ser. No. 622,847. Revlon Products Corporation, New York, N. Y. Filed Dec. 26, 1951.

PAINT THE TOWN PINK

The word "Pink" is disclaimed.
For Nail Enamel and Lipstick.
Claims use since Dec. 4, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 570,515. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 14, 1948. (Sec. 2f—Additional evidence.)



Applicant claims ownership of Registration No. 369,614.
For Drain Pipe Cleaner and Liquid Rust Preventive.
Claims use since July 15, 1946.

Ser. No. 578,915. Cutter Products, Oakland, Calif. Filed May 31, 1949.

NO-TOIL

For Liquid Cleanser for General Household Purposes.
Claims use since Feb. 16, 1948.

Ser. No. 594,793. Imperial Chemical Industries Limited, London and Millbank, London, England. Filed Mar. 28, 1950.



Applicant claims ownership of British Registration No. 507,747, dated Nov. 12, 1929.
For Detergents for the Treatment of Textiles in the Course of Manufacture; Detergents for Laundry Use; Detergents for Industrial Use; Degreasing Agents; Detergents for Washing Glass and Bottles; Detergents for Household Use; Detergents for the Treatment of Surfaces Before Painting; Cleaning and De-Rusting Agents; Detergents for Surgical Use; Detergents for Veterinary Use; Detergents for Dry Cleaning; Spotting Agents for Textiles; Solvent Soaps; Detergents for the Cleaning of Plastics; Cleaning Preparations for Fire-Arms; Degreasing Agents for Leather; Medicated Soaps; Ammonia Soda, Ammonium Carbonate, Caustic Soda, Caustic Potash, Sodium and Potassium Carbonates, Sodium Carbonate and Silicate Mixtures, Soft Soap, Fuller's Earth, Sodium Hypochlorite, Toluene, Benzene, Mono, Di and Tetrachloromethane, Mono, Di and Trichlorethylene, Chloro-Fluoro-Methane, Ethanol, Acetone, Ether, Cetyl Tri-Methyl Ammonium Bromide, Sulphonated Fatty Alcohols, When Used as Detergents, Scouring Agents, Dry Cleaning Fluids, Bottle Washing Preparations or Degreasing Agents.

Ser. No. 610,789. David J. Howells, Calgary, Alberta, Canada. Filed Mar. 3, 1951.



For Chemical Preparation for the Preservation, Softening, Cleaning, and Lubricating of Carbon and Wire Wound Electrical Devices, Particularly Contacts of Volume Controls and Switches of Radio and Like Apparatus.

Claims use on approximately Apr. 1, 1949, in Canada; and use in commerce between foreign nations and the United States on approximately Nov. 15, 1950.

Ser. No. 611,502. Central O-B Products Co. Inc., Buffalo, N. Y. Filed Mar. 19, 1951.



Applicant claims ownership of Registration No. 293,709.

For Metal Cleaner for Use in Removing Oil, Grease, Handmarks, and the Like Before Plating the Metal; Detergent, Being a Cleaning Compound Containing Alkali, Soap, and Pumice and Used for General Cleaning of Walls, Floors, Machinery, Etc.; Waterless Hand Cleanser, Soap Powder, Liquid Soap; Pine Scrub Soap, Being a Scented Scrub Soap Containing Pine Oil and Used for the General Cleaning of All Types of Floors; Germicide Cleanser, Powdered Soap Hand Cleanser, General Purpose Cleaner, Cleaner for Use in Dish-Washing Machines, Cleaner for Washing Dishes by Hand, Cleaner for Washing Automobiles, and a Product Used for Building Soap in Laundries Known as Builder.

Claims use since about October 1931.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 536,418. National Association of Secondary-School Principals, Washington, D. C. Filed Oct. 1, 1947. COLLECTIVE MARK.



The words "National Honor Society" are disclaimed.

For Stimulating and Maintaining Interest in Good Scholarship Among Students in Secondary Schools and Organizing and Assisting in Maintaining Chapters of a Students' Honor Society in Such Schools.

Claims use since February 1924.

Ser. No. 536,419. National Association of Secondary-School Principals, Washington, D. C. Filed Oct. 1, 1947. COLLECTIVE MARK.



The words "Junior" and "Honor" are disclaimed.

For Stimulating and Maintaining Interest in Good Scholarship Among Students in Secondary Schools and Organizing and Assisting in Maintaining Chapters of a Students' Honor Society in Such Schools.

Claims use since April 1929.

Ser. No. 570,033. American Society of Tool Engineers, Detroit, Mich. Filed Dec. 6, 1948. COLLECTIVE MARK.



Applicant claims ownership of Registration No. 508,265.

For Tool Engineering.

Claims use since Apr. 1, 1932.

Ser. No. 576,843. Boston Strauss, Inc., San Diego, Calif., assignor to Monroe Boston Strauss, San Diego, Calif. Filed Apr. 9, 1949.



The representation of the pie and cake and the representation of the map are disclaimed. The representation of the figure is fanciful and is not intended to represent any particular individual.

For Consultation Services Rendered to Baking Companies and Restaurants in the Baking of Pies and Cakes—Namely, Furnishing Proper Recipes and Cooking Instructions, Providing Regular Ingredient and Product Tests and Making Recommendations Relative Thereto.

Claims use since Aug. 1, 1934.

Ser. No. 589,672. The National Exchange Club, Toledo, Ohio. Filed Dec. 20, 1949. (Sec. 2f as to "National Exchange Club.") COLLECTIVE MARK.



Applicant claims ownership of Registrations Nos. 159,045, 266,968, 545,323, and 552,622.

For Improving and Developing the Capabilities of the Members of the Chartered Clubs in Rendering Services in the Fields of Public Affairs, Citizenship, and Civic and Community Activities.

Claims use since December 1917.

Ser. No. 589,673. The National Exchange Club, Toledo, Ohio. Filed Dec. 20, 1949. (Sec. 2f as to "National Exchange Club.") COLLECTIVE MARK.



The drawing is lined for the colors blue and gold. Applicant claims ownership of Registrations Nos. 159,045 and 266,968.

For Improving and Developing the Capabilities of the Members of the Chartered Clubs in Rendering Services in the Fields of Public Affairs, Citizenship and Civic and Community Activities.

Claims use since December 1917.

Ser. No. 590,572. Alpha Kappa Kappa Fraternity, Columbus, Ohio. Filed Jan. 10, 1950.



The lining is for shading only.

For Advancement of Medical Science Among the Members of Its Chapters; and Representing the Individual Chapters on the Medical Interfraternity Conference and the Professional Interfraternity Conference.

Claims use since 1930.

Ser. No. 608,332. Youth, Incorporated, Nashville, Tenn. Filed Jan. 3, 1951.

HANDS ACROSS THE SEA

For Sponsoring of Visits of Groups of Foreign Youth to the United States and the Sponsoring of Visits of Groups of American Youth to Foreign Countries in Furtherance of International Good Will Activities.

Claims use since December 1949.

Ser. No. 622,113. Little League Baseball, Inc., New York, N. Y. Filed Dec. 5, 1951. (Sec. 2f as to "Little League Baseball.")

LITTLE LEAGUE BASEBALL

For Promoting and Developing Sportsmanship, Team Play, and Athletic Ability Through the Medium of Organized Juvenile Baseball Teams.

Claims use since June 1948 as to the mark shown; and since June 1939 as to the words "Little League Baseball."

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 613,003. Group Health Mutual Incorporated, St. Paul, Minn. Filed Apr. 23, 1951.

GROUP HEALTH

The words "Group Health" are disclaimed.

For Underwriting of Insurance—Namely, Health Insurance, Hospital and Surgical Care Insurance, and Medical Services Insurance.

Claims use since Sept. 14, 1940.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 558,389. The Heltzel Steel Form and Iron Co., Warren, Ohio. Filed June 3, 1948.

HELCO

For Leasing and Servicing of Road Building Equipment.

Claims use since Apr. 20, 1948.

Ser. No. 570,033. American Society of Tool Engineers, Detroit, Mich. Filed Dec. 6, 1948. COLLECTIVE MARK. (Classified in Class 100.)

Applicant claims ownership of Registration No. 508,265. See this serial number in Class 100 for goods and mark. Claims use since Apr. 1, 1932.

Ser. No. 571,827. Frank B. Thomas, doing business as Thomas Drain Service, Akron, Ohio. Filed Jan. 7, 1949. (Sec. 2f—Additional evidence.)

Pipes Clogged?

For Plumbing Services — Namely, the Cleaning of Drains, Pipes, Sewers, and Other Lines.

Claims use since about September 1931.

Ser. No. 610,558. The Haloid Company, Rochester, N. Y. Filed Feb. 27, 1951.

XeroX

Applicant claims ownership of Registration No. 525,717.

For Maintenance and Repair of Copying Machines and Equipment Furnished by the Applicant and Used in the Reproduction of Documents, Drawings, Maps, Printed, Typewritten, and Written Matter by an Electro-Copying Process.

Claims use since June 22, 1949.

Ser. No. 612,520. Sam Steel, doing business as Philadelphia Equipment Company, Philadelphia, Miss. Filed Apr. 11, 1951.

PECO

For Repairing Saw Mill Equipment.

Claims use since at least as early as Dec. 31, 1945.

Ser. No. 621,329. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Nov. 16, 1951. (Sec. 2f as to "Orkin.")

ORKIN

Applicant claims ownership of Registration No. 289,510.

For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents, by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.

Claims use since 1926 on the mark as shown; and since 1901 on the word "Orkin."

Ser. No. 621,330. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Nov. 16, 1951. (Sec 2f as to "Orkin.")

ORKIN

Applicant claims ownership of Registration No. 289,510.

For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents, by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.

Claims use since 1926 on the mark as shown; and since 1901 on the word "Orkin."

Ser. No. 622,614. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Dec. 17, 1951. (Sec. 2f as to "Orkin.")

ORKIN

The drawing is lined for red. Applicant claims ownership of Registration No. 289,510.

For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents, by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.

Claims use since 1939 on the mark as shown; and since 1901 on the word "Orkin."

Ser. No. 622,615. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Dec. 17, 1951. (Sec. 2f as to "Orkin.")

ORKIN

Applicant claims ownership of Registration No. 289,510.

For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents, by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.

Claims use since 1939 as to the mark shown on the drawing; and since 1901 as to "Orkin."

Ser. No. 622,616. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Dec. 17, 1951. (Sec. 2f as to "Orkin.")

ORKIN

The drawing is lined to indicate the color red. Applicant claims ownership of Registration No. 289,510.

For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents, by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.

Claims use since 1939 as to the mark shown on the drawing; and since 1901 as to the mark "Orkin."

Ser. No. 622,617. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Dec. 17, 1951.

The drawing is lined for the color red. Applicant claims ownership of Registration No. 289,510.

For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents, by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.

Claims use since 1939.

Ser. No. 623,065. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Jan. 2, 1952.

For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents, by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.

Claims use since May 1951.

Ser. No. 623,066. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Jan. 2, 1952.

For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents, by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.

Claims use since November 1950.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 590,872. Associated Transport, Inc., New York, N. Y., and at numerous other locations throughout the eastern part of the United States. Filed Jan. 13, 1950.



The drawing is lined for black and red. The words "Associated Transport" are disclaimed.

For Transportation of Freight by Motor Truck.

Claims use since Jan. 1, 1943.

CLASS 106

MATERIAL TREATMENT

Ser. No. 593,373. Societe de Produits Chimiques des Terres Rares, Paris, France. Filed Mar. 3, 1950.

FRAPOLAL

Applicant claims ownership of French Registration No. 437,437, dated Apr. 6, 1948.

For Electrolytically Shining and Polishing Articles Made of Aluminum and Aluminum Alloys.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 559,778. Jack Rourke, doing business as Jack Rourke Productions, Hollywood, Calif. Filed May 6, 1948.

The Spooner

For Originating and Producing of Radio and Television Shows Incorporating the Idea and Technique of Expression Known as "Spooning."

Claims use since on or about Sept. 9, 1947.

Ser. No. 589,672. The National Exchange Club, Toledo, Ohio. Filed Dec. 20, 1949. (Sec. 2f as to "National Exchange Club.") COLLECTIVE MARK. (Classified in Class 100.)

Applicant claims ownership of Registrations Nos. 159,045, 266,968, 345,323, and 352,622.

See this serial number in Class 100 for goods and mark.

Claims use since December 1917.

Ser. No. 589,673. The National Exchange Club, Toledo, Ohio. Filed Dec. 20, 1949. (Sec. 2f as to "National Exchange Club.") COLLECTIVE MARK. (Classified in Class 100.)

The drawing is lined for the colors blue and gold. Applicant claims ownership of Registrations Nos. 159,045 and 266,968.

See this serial number in Class 100 for goods and mark.

Claims use since December 1917.

Ser. No. 617,813. Radio Corporation of America, New York, N. Y. Filed Aug. 17, 1951.



For Instructing in Television Servicing by Means of a Correspondence Course.

Claims use since April 1931.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1946, PRINCIPAL REGISTER

564,821. Bathing Suits. Adolph Mosen, doing business under the name and style of Bestlyne Company, New York, N. Y.

Original filed, act of 1920, June 10, 1946; amended to application under act of 1946, Principal Register, Apr. 27, 1950, Serial No. 503,585. Published May 20, 1952. Class 39.

564,822. Shoes of Leather, or a Combination of Leather, Rubber, or Fabric. Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo.

Filed July 5, 1947, Serial No. 527,382. Published Apr. 25, 1950. Class 39.

564,823. Pocket, Kitchen, and Hunting Knives. Brown & Bigelow, St. Paul, Minn.

Filed July 9, 1947, Serial No. 528,190. Published June 17, 1952. Class 23.

564,824. Groceries in Cans and Jars—Namely, Spiced Almonds, Artichoke Hearts, Etc. S. S. Pierce Co., Boston, Mass.

Filed Aug. 14, 1947, Serial No. 531,360. Published July 5, 1949. Class 46.

564,825. Beer. Peter J. McGurk, assignee of Brewers' Best Associates, Inc., Elizabeth, N. J., assignor to Brewers' Best Inc.

Filed Sept. 13, 1947, Serial No. 534,411. Published June 3, 1952. Class 48.

564,826. Frozen Foods—Namely, Deciduous Fruits and Vegetables. Marksman Farms, Inc., New York, N. Y.

Filed Oct. 4, 1947, Serial No. 536,826. Published July 8, 1952. Class 46.

564,827. Men's, Women's, and Children's Shoes and Moccasins of Leather or Fabric, Etc. Henry Modell & Co., Inc., New York, N. Y.

Filed Nov. 14, 1947, Serial No. 541,160. Published June 10, 1952. Class 39.

564,828. Mattresses, Box Springs. The Waterbury Mattress Co., Waterbury, Conn.

Filed Nov. 14, 1947, Serial No. 541,238. Published July 15, 1952. Class 32.

564,829. Canned Fruits, Jellies, Jams, Fruit Preserves, Cherry Juice, Fruit Butters, and Fresh Strawberries. Miller Food Products Company, Inc., Sturgeon Bay, Wis.

Filed Nov. 20, 1947, Serial No. 541,868. Published June 24, 1952. Class 46.

564,830. Maltless Soft Drink and Syrup Concentrates for Use in Making Said Soft Drinks. Ginger Mint Julep Company, Baltimore, Md.

Filed Nov. 26, 1947, Serial No. 542,462. Published June 24, 1952. Class 45.

564,831. Lime. United States Gypsum Company, Chicago, Ill.

Filed Jan. 3, 1948, Serial No. 546,135. Published July 1, 1952. Class 6.

564,832. Ladies' Suits. Merritt-Taylor Inc., New York, N. Y.

Filed Feb. 3, 1948, Serial No. 548,664. Published Oct. 26, 1948. Class 39.

564,833. Candies. King Candy Company, Fort Worth, Tex.

Filed Mar. 17, 1948, Serial No. 552,148. Published July 8, 1952. Class 46.

564,834. Grape Juice. Pastene & Co., Inc., New York, N. Y.

Filed Apr. 12, 1948, Serial No. 554,406. Published June 3, 1952. Class 45.

564,835. Section of a Weekly Publication. Barron's Publishing Company, Inc., New York, N. Y.

Filed Apr. 23, 1948, Serial No. 555,365. Published June 24, 1952. Class 38.

564,836. Dental Cream, Shampoo, Blue, and Starch Finish. Jewel Tea Co., Inc., Barrington, Ill.

Filed Apr. 24, 1948, Serial No. 555,527. Published Apr. 17, 1951. Class 51.

564,837. Vitamin Preparation. Bristol Laboratories Inc., Syracuse, N. Y., assignor to Meyer Chemical Company, Detroit, Mich., a corporation of Michigan.

Filed May 29, 1948, Serial No. 558,104. Published Sept. 12, 1950. Class 18.

564,838. Bowling Alley Cleaner in Liquid Form Sold Directly to Bowling Alley Proprietors. The Brunswick-Balke-Collender Company, Chicago, Ill.

Filed June 10, 1948, Serial No. 558,856. Published July 8, 1952. Class 52.

564,839. Sand, Clay, Fuller's Earth, Kaolin, Chalk, Etc. Omnipol, Limited Company, Prague, Czechoslovakia.

Filed June 12, 1948, Serial No. 559,807. Published July 8, 1952. Class 1.

564,840. Garment Storage Bags Made of Paper. Rassenfoss Bag Company, Glenview, Ill.

Filed July 2, 1948, Serial No. 560,658. Published July 8, 1952. Class 2.

564,841. Non-Alcoholic Maltless Soft Drinks and Syrups For Making Same. Societa per Azioni Strega Alberti Benevento (S. A. B.), Benevento, Italy.

Filed Aug. 25, 1950, Serial No. 561,270. Published June 17, 1952. Class 45.

564,842. Label Stock, That Is, Paper Suitable for Being Printed Upon To Form Labels, Etc. Nashua Gummed and Coated Paper Company, Nashua, N. H., now by change of name, Nashua Corporation.

Filed July 14, 1948, Serial No. 561,329. Published Aug. 21, 1951. Class 37.

564,843. Nonalcoholic, Maltless Beverage, Sold as a Soft Drink. Real Juice Company, Inc., Dallas, Tex.

Filed Mar. 1, 1948, Serial No. 561,397. Published June 3, 1952. Class 45.

564,844. Children's and Misses' Footwear — Namely, Shoes, Galoshes, and Overshoes Made of Leather, Rubber, Fabric, and Combinations of the Same. Sears, Roebuck and Co., Chicago, Ill.

Filed July 15, 1948, Serial No. 561,500. Published June 10, 1952. Class 39.

564,845. Aerators Designed To Introduce Air Into Powdered or Pulverulent Bulk Materials Enabling the Same To Flow From Bins, Hoppers, and Chutes. The Bin-Dicator Company, Detroit, Mich.

Filed July 28, 1948, Serial No. 562,307. Published June 17, 1952. Class 23.

564,846. Preparation for Removing Ink, Dirt, and Grease From Type, Wood, Metal, Skin, Clothes, and Other Surfaces. Chalmers Chemical Company, Newark, N. J.

Filed May 5, 1948, Serial No. 564,034. Published July 1, 1952. Class 52.

564,847. Paper and Plastic Bags and Plastic Bottles and Jars. Rile-Coe Filter Process, Inc., Pinehurst, N. C.
Filed Sept. 17, 1948, Serial No. 565,373. Published July 8, 1952. Class 2.

564,848. Beer. William Gretz Brewing Co., Philadelphia, Pa.
Filed Dec. 17, 1948, Serial No. 570,702. Published June 24, 1952. Class 48.

564,849. Spring Assemblies for Upholstered Furniture. Nachman Corporation, Chicago, Ill.
Filed Oct. 14, 1948, Serial No. 570,741. Published July 15, 1952. Class 32.

564,850. Wines. Ellis Brothers, Inc., Chicago, Ill.
Filed Jan. 11, 1949, Serial No. 571,958. Published June 10, 1952. Class 47.

564,851. Bags, Boxes, and Cartons Having an Inner Coating of Vinyl Resin. Protective Coatings Corporation, Clifton, N. J.
Filed Feb. 2, 1949, Serial No. 573,195. Published July 8, 1952. Class 2.

564,852. Men's Clothing—Namely, Men's Suits. Society Brand Clothes, Inc., Chicago, Ill.
Filed Mar. 10, 1949, Serial No. 575,232. Published June 10, 1952. Class 39.

564,853. Colognes, Toilet Water, Perfume. Avon Products, Inc., New York, N. Y., assignor to Avon Products, Inc. (1950), a corporation of New York.
Filed Mar. 18, 1949, Serial No. 575,618. Published June 17, 1952. Class 51.

564,854. Wines. Central Grape Products Co., New York, N. Y., assignor to Theodore Levy, Long Island City, N. Y.
Filed Feb. 23, 1949, Serial No. 575,738. Published July 8, 1952. Class 47.

564,855. Women's and Girls' Clothing—Namely, Gloves, Gowns, Dresses, Suits, Slips, Etc. Eulalie Hildebrand, New York, N. Y.
Filed Mar. 22, 1949, Serial No. 575,859. Published July 8, 1952. Class 39.

564,856. Hand and Power Operated Spray Pumps for Use on Portable or Stationary Spray Outfits for Home, Etc. Century Engineering Corporation, Cedar Rapids, Iowa.
Filed Mar. 26, 1949, Serial No. 576,113. Published June 17, 1952. Class 23.

564,857. Wines. T. G. Bright & Co. Limited, Township of Stamford and Niagara Falls, Ontario, Canada.
Filed Apr. 5, 1949, Serial No. 576,622. Published June 3, 1952. Class 47.

564,858. Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups, Extracts, and Concentrates for Making the Same. Tom Tucker Beverage Company, Pittsburgh, Pa.
Filed Apr. 7, 1949, Serial No. 576,780. Published July 1, 1952. Class 45.

564,859. Face Creams. Lancome, S. A., doing business as Lancome, Paris, France.
Filed Apr. 16, 1949, Serial No. 577,273. Published June 17, 1952. Class 51.

564,860. Chemical Used To Extinguish Fires; Insecticide and Room Deodorant. Bostwick Laboratories, Inc., Bridgeport, Conn.
Filed Apr. 20, 1949, Serial No. 577,420. Published July 15, 1952. Class 6.

564,861. Film Cement. Sears, Roebuck and Co., Chicago, Ill.
Filed Apr. 23, 1949, Serial No. 577,611. Published Jan. 22, 1952. Class 5.

564,862. Picture Postcards, Pictures, Books, Pamphlets, Leaflets, Catalogues, Magazines, Wall Calendars, and Almanacs, as Well as Printed or Otherwise Reproduced Copies of Paintings and Art Works, Both of a Religious and Secular Nature. Società "Ambrosiana" Riproduzioni Sacre, Milano, Italy.
Filed May 14, 1949, Serial No. 578,902. Published July 1, 1952. Class 38.

564,863. Shipment and Display Cartons for Cut Flowers, Which Are Formed Largely of Cardboard and Which Are Sold Empty. John K. Newhall, Aurora, Ill.
Filed May 19, 1949, Serial No. 579,124. Published July 8, 1952. Class 2.

564,864. Port Wine. Offley Forrester, Limitada, Vila Nova De Gaia, Portugal.
Filed May 27, 1949, Serial No. 579,616. Published June 10, 1952. Class 47.

564,865. Fabric Working Machines Used in Manufacturing Processes—Namely, Sewing Machines; Etc. Consolidated Sewing Machine and Supply Co., Inc., New York, N. Y.
Filed June 23, 1949, Serial No. 580,926. Published June 17, 1952. Class 23.

564,866. Pharmaceutical Preparation for the Treatment of Tuberculous Affections. Cilag Aktiengesellschaft, Schaffhausen, Switzerland.
Filed July 21, 1949, Serial No. 582,276. Published May 13, 1952. Class 18.

564,867. Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats for Men, Youths, and Boys. J. Schoeneman, Incorporated, Baltimore, Md.
Filed June 18, 1949, Serial No. 582,398. Published June 24, 1952. Class 39.

564,868. Cosmetic, To Wit, a Cosmetic Cleansing Oil. Bramhall Co., Inc., Pasadena, Calif.
Filed Aug. 25, 1949, Serial No. 583,983. Published June 17, 1952. Class 51.

564,869. Men's Coats and Jackets. John Alexander of New Haven, New Haven, Conn.
Filed Aug. 27, 1949, Serial No. 584,101. Published July 8, 1952. Class 39.

564,870. Cigarettes and Smoking Tobacco. Liggett & Myers Tobacco Company, New York, N. Y.
Filed Sept. 10, 1949, Serial No. 584,676. Published July 15, 1952. Class 17.

564,871. Ammoniated Tooth Powder. Kathryn, Inc., Chicago, Ill.
Filed Sept. 13, 1949, Serial No. 584,769. Published June 17, 1952. Class 51.

564,872. Dry-Cleaning Soaps and Detergents. Tru-Sheen Corporation, Richmond, Calif.
Filed Sept. 26, 1949, Serial No. 585,351. Published July 8, 1952. Class 52.

564,873. Fresh Flowers and Bouquets. Bouquet of the Month Club by Harris, Inc., New York, N. Y., by change of name from Hollenzer Florist Inc.
Filed Oct. 1, 1949, Serial No. 585,643. Published July 1, 1952. Class 1.

564,874. Sole Leather. Armour and Company, Chicago, Ill.
Filed Oct. 7, 1949, Serial No. 585,905. Published June 24, 1952. Class 1.

564,875. Smokers' Articles, To Wit: Pyrophoric Cigarette Lighters. Bryn Mawr Smokers Novelty Co., Chicago, Ill.
Filed Oct. 26, 1949, Serial No. 586,839. Published July 15, 1952. Class 8.

564,876. Engraving Machines for Engraving on Metal, Plastic, or Like Materials Including Parts Thereof. New Hermes, Inc., New York, N. Y.
Filed Nov. 16, 1949, Serial No. 587,903. Published June 17, 1952. Class 23.

564,877. CONSOLIDATED CERTIFICATE. Beltx Corporation, St. Louis, Mo.
Women's and Girls' Garters, Hose Supporters, and Blouse Belts. Filed Nov. 29, 1949, Serial No. 588,474. Published Oct. 9, 1951. Class 39.
Adjustable Shoulder Straps, Bra-Girdle Fasteners, and Garter Grips. Filed Sept. 22, 1950, Serial No. 603,874. Published Mar. 4, 1952. Class 40.
Sanitary Belts. Filed Nov. 29, 1949, Serial No. 588,475. Published Dec. 25, 1951. Class 44.

546,878. Wines. Standard Food Products Corp., Brooklyn, N. Y.
Filed Nov. 29, 1949, Serial No. 588,533. Published June 10, 1952. Class 47.

564,879. Variable Speed Power Units for Transmitting Rotary Motion at Varying Output Speeds. Reeves Pulley Company, Columbus, Ind.
Filed Dec. 1, 1949, Serial No. 588,656. Published June 3, 1952. Class 23.

564,880. Resinous Plastic Wall Covering in Sheet Form. The Pantasote Co., Passaic, N. J., and New York, N. Y.
Filed Jan. 3, 1950, Serial No. 590,281. Published Dec. 19, 1950. Class 12.

564,881. Can Marking Machines. Bruce Engineering Corporation, San Francisco, Calif.
Filed Jan. 13, 1950, Serial No. 590,802. Published June 17, 1952. Class 23.

564,882. Insecticides in Powder or Paste Form. Remington Products Corporation, Elizabeth, N. J.
Filed Jan. 18, 1950, Serial No. 591,648. Published July 8, 1952. Class 6.

564,883. Syndicated Articles in Newspapers, Periodicals, and Magazines. Leo H. Cross, San Bernardino, Calif.
Filed Feb. 7, 1950, Serial No. 592,075. Published July 1, 1952. Class 38.

564,884. Easter Egg Candies. The Shotwell Mfg. Co., Chicago, Ill.
Filed Feb. 11, 1950, Serial No. 592,343. Published July 15, 1952. Class 46.

564,885. Wheat Flour. The Mennel Milling Company, Fostoria and Toledo, Ohio.
Filed Nov. 4, 1949, Serial No. 593,034. Published Sept. 25, 1951. Class 46.

564,886. Hams and Bacon. M. H. Greenebaum, Inc., New York, N. Y.
Filed Mar. 1, 1950, Serial No. 593,223. Published June 24, 1952. Class 46.

564,887. Frozen Fruit Purees, Sold to Ice Cream Manufacturers. E. R. Jagenburg, Inc., Brooklyn, N. Y.
Filed Mar. 16, 1950, Serial No. 594,047. Published July 8, 1952. Class 46.

564,888. Air Deodorant. The Interstate Sanitation Company, Cincinnati, Ohio.
Filed Mar. 17, 1950, Serial No. 594,175. Published July 15, 1952. Class 6.

564,889. Men's Suits. The Suit Shop, Washington, D. C.
Filed Mar. 24, 1950, Serial No. 594,592. Published July 8, 1952. Class 39.

564,890. Women's Ready-To-Wear, Consisting of Suits, Dresses, Coats, Blouses, Sweaters, and Skirts. The House of Nine, Los Angeles, Calif.
Filed Mar. 27, 1950, Serial No. 594,715. Published June 24, 1952. Class 39.

564,891. Collar Trimmer Machines, Cuff Forming and Pressing Machines and Wax Injection Molding Machines. Zak Machine Works, Inc., Troy, N. Y.
Filed Mar. 27, 1950, Serial No. 594,738. Published June 17, 1952. Class 23.

564,892. Frozen Foods, Specifically Blintzes. Home Town Foods, Harris, N. Y.
Filed Mar. 31, 1950, Serial No. 594,971. Published July 15, 1952. Class 46.

564,893. Women's Overshoes Made of Rubber, Lined With Fabric. Joyce, Inc., Pasadena, Calif.
Filed Apr. 15, 1950, Serial No. 595,786. Published June 10, 1952. Class 39.

564,894. Capsulated Vitamin Preparations for Human and Other Animal Use, Etc. R. P. Scherer Corporation, Detroit, Mich.
Filed Apr. 19, 1950, Serial No. 595,987. Published June 17, 1952. Class 18.

564,895. Bituminous and Mastic Materials, Other Than Paints, To Be Mixed With Mineral Aggregate To Form a Flooring Material. Coalite and Chemical Products Limited, London, England.
Filed May 2, 1950, Serial No. 596,714. Published July 1, 1952. Class 12.

564,896. Eye Shadow Preparation for Men and Women. Germaine Monteil Cosmetiques Corporation, New York, N. Y.
Filed May 5, 1950, Serial No. 596,911. Published June 17, 1952. Class 51.

564,897. Non-Vulcanizable Caulking Compound Containing a Drying Oil and Fillers. Arthur H. De Van, Jr., doing business as Durable Putty Products Co., St. Louis, Mo.
Filed May 11, 1950, Serial No. 597,257. Published Nov. 27, 1951. Class 12.

564,898. Disinfectants and Insecticides—Namely, Saponified Cresylic Acid Solution, Etc. Globe Laboratories, Fort Worth, Tex.
Filed May 15, 1950, Serial No. 597,441. Published July 15, 1952. Class 6.

564,899. Talcum Powder, Shaving Cream, Personal Deodorant, Etc. The House of Stuart, Inc., Newark, N. Y.
Filed May 26, 1950, Serial No. 598,185. Published June 17, 1952. Class 51.

564,900. Cigars. Richard Clark Jacobs, doing business as Jacobs Cigar Co., Red Lion, Pa.
Filed May 31, 1950, Serial No. 598,368. Published July 15, 1952. Class 17.

564,901. Electrolytic Baths for Shining and Polishing Articles Made of Aluminum and Aluminum Alloys. Societe de Produits Chimiques des Terres Rares, Paris, France.
Priority under Sec. 44(d). French Registration No. 466,347, filed Feb. 9, 1950.
Filed June 2, 1950, Serial No. 598,504. Published July 15, 1952. Class 6.

564,902. Anchovy Paste, Apple Sauce, Artichoke Bottoms, Bacon Rinds, Etc. Cresca Company, Inc., New York, N. Y.
Filed June 22, 1950, Serial No. 599,555. Published June 17, 1952. Class 46.

564,903. Suits, Trousers, Outer Shirts and Under Shirts, Braces, All for Men or Children; Etc. Dormeuil Freres, London, England, and Paris, France.
Filed June 22, 1950, Serial No. 599,558. Published June 3, 1952. Class 39.

564,904. Lipsticks, Rouge, Face Powder, Mascara, Eye Shadow, Eyebrow Pencils, and Powder Base. Michel Cosmetics, Inc., Long Island City, N. Y.
Filed June 30, 1950, Serial No. 600,063. Published June 17, 1952. Class 51.

564,905. Insecticides. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed June 30, 1950, Serial No. 600,072. Published July 8, 1952. Class 6.

564,906. Philatelic Stamps. Joe Lowe Corporation, New York, N. Y.
Filed July 13, 1950, Serial No. 600,596. Published July 1, 1952. Class 38.

564,907. Animal Disinfectants. Kennel Comfort, San Francisco, Calif.
Filed July 24, 1950, Serial No. 601,151. Published July 15, 1952. Class 6.

564,908. Neckties, Handkerchiefs, Dressing Gowns, and Scarves. Giuseppe Ravasi, Como, Italy.
Filed July 25, 1950, Serial No. 601,232. Published June 10, 1952. Class 39.

564,909. Men's Boots Made of Rubber and Fabric. United States Rubber Company, New York, N. Y.
Filed July 25, 1950, Serial No. 601,241. Published June 10, 1952. Class 39.

564,910. Shoes Having Rubber Soles and Cloth Uppers, Ankle Height, for Men and Boys. Gallenkamp Stores Co., Los Angeles, Calif.
Filed July 29, 1950, Serial No. 601,430. Published June 10, 1952. Class 39.

564,911. Almanacs, Directories, Agenda-Books, Pamphlets of Information, Entirely Printed Publications, Entirely Printed Lists of Addresses. Societe Anonyme de l'Annuaire du Commerce Didot-Bottin, Paris, France.
Filed July 19, 1950, Serial No. 601,526. Published June 17, 1952. Class 38.

564,912. Licorice Candy. Switzer Licorice Company, doing business under the name and style of Switzer's Licorice Company, St. Louis, Mo.
Filed Aug. 8, 1950, Serial No. 601,961. Published July 8, 1952. Class 46.

564,913. Drinking Glass Coasters, Kitchen Canister Sets, Ornamental Holders for Supporting Cut Flowers, Pitchers, Bread Baskets, Cake Cover Sets, Ice Buckets, Cookie Jars, and Serving Trays, All Composed of Thermoplastic and/or Thermosetting Resins. Columbus Plastic Products, Inc., Columbus, Ohio.
Filed Aug. 23, 1950, Serial No. 602,598. Published Apr. 29, 1952. Class 2.

564,914. Cream Used for Cleansing the Skin, as a Base for Powder, for Treating Rough or Chapped Skin, and as a Finishing Cream for After Shaving. Princess Pat, Ltd., Chicago, Ill.
Filed Sept. 5, 1950, Serial No. 603,163. Published June 24, 1952. Class 51.

564,915. Medicines and Pharmaceuticals—Namely, Amino Acids, Etc. Armour and Company, Chicago, Ill.
Filed Sept. 7, 1950, Serial No. 603,220. Published June 17, 1952. Class 18.

564,916. Women's, Misses', and Children's Dresses, Halters, Outer Shorts, Outer Shirts, Blouses, Slacks, Pedal Pushers, and Jackets, All Made Substantially Entirely of Denim Material. Koret of California, Inc., San Francisco, Calif.
Filed Oct. 23, 1950, Serial No. 605,311. Published June 10, 1952. Class 39.

564,917. Portable Detachable Seat Back Rest and Combination Seat Cushion and Carrying Case. Anthony B. Lake, doing business under the name "A. B. Lake," Marion, Iowa.
Filed Oct. 28, 1950, Serial No. 605,555. Published July 15, 1952. Class 32.

564,918. Castile Hair Shampoo. The Charles Marchand Company, New York, N. Y.
Filed Nov. 1, 1950, Serial No. 605,753. Published July 1, 1952. Class 52.

564,919. Refractory Mixture Containing Refractory Clays, Graphite, and Bonding Ingredients, Used for Repairing and Lining Industrial Heating Furnaces, Ladles; and the Like. Harbison-Walker Refractories Company, Pittsburgh, Pa.
Filed Nov. 3, 1950, Serial No. 605,856. Published June 24, 1952. Class 12.

564,920. Mops. The New York Association for the Blind, Inc., New York, N. Y.
Filed Nov. 7, 1950, Serial No. 606,037. Published July 1, 1952. Class 29.

564,921. Hair Lotions. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y.
Filed Nov. 16, 1950, Serial No. 606,469. Published June 3, 1952. Class 51.

564,922. Composition for Use as a Temporary Reliner for Denture Plates. R. J. Forhan, New York, N. Y.
Filed Nov. 22, 1950, Serial No. 606,767. Published July 8, 1952. Class 44.

564,923. Absorbent Articles of a Constitution Absorbable in Body Fluids, Etc. The Panray Corp., New York, N. Y.
Filed Nov. 27, 1950, Serial No. 606,980. Published July 8, 1952. Class 44.

564,924. Portable, Plastic Bottle With a Nozzle Top for Holding and Dispensing Mustard, Ketchup, and the Like. Schwarz Bros. Plastics Inc., Los Angeles, Calif.
Filed Dec. 12, 1950, Serial No. 607,608. Published July 15, 1952. Class 2.

564,925. Perfume, Toilet Water, and Cologne. Germaine Monteil Parfums Company, New York, N. Y.
Filed Dec. 13, 1950, Serial No. 607,624. Published June 17, 1952. Class 51.

564,926. Decalcomania Signs, Printed Creeds, Manuals, Rosters, and Directories Sold to the Various Units of the Order, and Magazines Published Periodically. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo.
Filed Dec. 22, 1950, Serial No. 607,993. Published July 1, 1952. Class 38.

564,927. Printed Creeds, Manuals, Directories, and Rosters, Published Periodically, and Decalcomania Signs, All of the Foregoing Being Sold to the Various Units of the Order. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo.
Filed Dec. 22, 1950, Serial No. 607,997. Published July 1, 1952. Class 38.

564,928. Powdered Preparation To Alleviate the Pains, Stiffness and Crippling Effects of Arthritis, Rheumatism, and Allied Diseases. Mildred J. Dillinger, Baldwin, N. Y.
Filed Dec. 26, 1950, Serial No. 608,057. Published June 17, 1952. Class 18.

564,929. Confections in the Nature of Cookies. Charlotte Charles, Inc., Evanston, Ill.
Filed Jan. 4, 1951, Serial No. 608,342. Published June 24, 1952. Class 46.

564,930. Men's and Boys' Neckties, Belts, Suspenders, Mufflers, and Handkerchiefs. Robert L. Cohen, doing business as The Bob Cohen Co., Buffalo, N. Y.
Filed Jan. 6, 1951, Serial No. 608,448. Published July 1, 1952. Class 39.

564,931. Liqueur. Mohawk Liqueur Corporation, Detroit, Mich.
Filed Jan. 8, 1951, Serial No. 608,509. Published June 3, 1952. Class 49.

564,932. Candy. Kahlua, Ltd., Hollywood, Calif.
Filed Jan. 16, 1951, Serial No. 608,821. Published June 17, 1952. Class 46.

564,933. Lipstick, Nail Polish, and Face, Talcum, and Dusting Powders. Elizabeth Arden Sales Corporation, New York, N. Y.
Filed Jan. 18, 1951, Serial No. 608,910. Published June 17, 1952. Class 51.

564,934. Newspaper. Independent Industrial Workers Association, Baton Rouge, La.
Filed Jan. 19, 1951, Serial No. 608,992. Published June 17, 1952. Class 38.

564,935. Clinical Thermometers. Will Ross, Inc., Milwaukee, Wis.
Filed Jan. 22, 1951, Serial No. 609,104. Published July 8, 1952. Class 44.

564,936. Ladies' and Misses' Coats, Suits, Jackets, and Skirts. Philip Shlansky & Sons, Inc., New York, N. Y.
Filed Jan. 23, 1951, Serial No. 609,144. Published June 10, 1952. Class 39.

564,937. Soaps, and Dishwashing Detergents. Peck's Products Company, St. Louis, Mo.
Filed Jan. 24, 1951, Serial No. 609,196. Published Mar. 4, 1952. Class 52.

564,938. Ladies' Sportswear—Namely, Jackets, Skirts, Blouses, and Ensembles Thereof. M. R. Fleischman Co., San Francisco, Calif.
Filed Jan. 26, 1951, Serial No. 609,291. Published June 10, 1952. Class 39.

564,939. Wines. Wine Growers Guild, Lodi, Calif.
Filed Jan. 26, 1951, Serial No. 609,326. Published July 8, 1952. Class 47.

564,940. Men's and Boys' Sportswear—Namely, Jackets, Snow Suits, Trousers, Caps, and Bathing Trunks. National Sportswear Corp., Forest City, Pa.
Filed Jan. 29, 1951, Serial No. 609,375. Published May 27, 1952. Class 39.

564,941. Macaroni. Vimco Macaroni Products Company, Carnegie, Pa.
Filed Jan. 30, 1951, Serial No. 609,425. Published June 24, 1952. Class 46.

564,942. Shorts for Men, Women, and Children. Dorothy S. Curtis, Washington, D. C.
Filed Feb. 8, 1951, Serial No. 609,789. Published June 10, 1952. Class 39.

564,943. Pistons and Parts Thereof, Engine Valves, Cylinder Sleeves, Water Pumps, Mufflers, and Parts Therefor, Exhaust Pipes, Non-Portable Electric Drills, Non-Portable Drill Stands, Non-Portable Grinders, Saws, and Valve Seat Grinders. Lindeteves Inc., New York, N. Y.
Filed Feb. 10, 1951, Serial No. 609,933. Published June 17, 1952. Class 23.

564,944. Ladies' Suits. Suit-4-All, Inc., New York, N. Y.
Filed Feb. 13, 1951, Serial No. 610,034. Published June 10, 1952. Class 39.

564,945. Children's Helmets, Gloves, Shoes, Boots, Shirts, and Pants. Robert J. Corcoran, doing business as Bubble-O-Bill Company, Beverly Hills, Calif., assignor to Bubble-O-Bill Corporation, Los Angeles, Calif., a corporation of California.
Filed Feb. 19, 1951, Serial No. 610,260. Published July 1, 1952. Class 39.

564,946. Permanent Wave Solution. Duart Manufacturing Co., Ltd., San Francisco, Calif.
Filed Feb. 19, 1951, Serial No. 610,262. Published July 8, 1952. Class 51.

564,947. Hair Dressing. Wesley A. Richards, doing business under the name General Testing Laboratories, Detroit, Mich.
Filed Feb. 28, 1951, Serial No. 610,634. Published June 17, 1952. Class 51.

564,948. Hair Dressing. Wesley A. Richards, doing business under the name General Testing Laboratories, Detroit, Mich.
Filed Feb. 28, 1951, Serial No. 610,635. Published June 17, 1952. Class 51.

564,949. Rolls of Cloth Used for Mechanical Dry-Type Ventilating Air Filters of the Portable Cell, Foldable Frame, and Stationary Pocket Types. American Air Filter Company, Inc., Louisville, Ky.
Filed Mar. 1, 1951, Serial No. 610,660. Published July 15, 1952. Class 42.

564,950. Toilet Soap and Shampoo. Girl Scouts of the United States of America, New York, N. Y.
Filed Mar. 1, 1951, Serial No. 610,681. Published July 1, 1952. Class 52.

564,951. Women's Sport Shoes. Oomphies, Inc., New York, N. Y.
Filed Mar. 5, 1951, Serial No. 610,863. Published July 15, 1952. Class 39.

564,952. Perfumes, Perfume Extracts, Toilet Water, Hand and Skin Lotions, Powders, Rouge. Parfums Forvil & Dentifrices du Docteur Pierre Reunis, Societe Anonyme, doing business as Forvil, Nanterre, France.
Filed Mar. 7, 1951, Serial No. 610,987. Published June 24, 1952. Class 51.

564,953. Dairy Products—Namely, Fresh Milk, Fresh Cream, Butter, Fresh Eggs, Cheese. Henry Becker & Son, Inc., Roseland, N. J.
Filed Mar. 9, 1951, Serial No. 611,072. Published June 10, 1952. Class 46.

564,954. Footwear—Namely, Women's Shoes. The Florsheim Shoe Company, Chicago, Ill.
Filed Mar. 9, 1951, Serial No. 611,085. Published June 10, 1952. Class 39.

564,955. Preparation for the Relief of Athlete's Foot, Ingrowing Toenails, Corns, Insect Bites, Slight Infections, Ringworm, and Other Fungus Irritations. K-M Chemical Co., Thomasville, Ga.
Filed Mar. 9, 1951, Serial No. 611,096. Published June 17, 1952. Class 18.

564,956. Women's Coats, Suits, Costumes, Skirts, Blouses, Jumpers, Pullovers, Dresses, Frocks, and Slacks. Hebe Sports Limited, London, England.
Filed Mar. 14, 1951, Serial No. 611,274. Published Apr. 1, 1952. Class 39.

564,957. Colognes. Lucien Lelong, Inc., Chicago, Ill.
Filed Mar. 14, 1951, Serial No. 611,287. Published June 17, 1952. Class 51.

564,958. Series of Cartoons or Comic Strips. The Hearst Corporation, New York, N. Y.
Filed Mar. 23, 1951, Serial No. 611,699. Published July 1, 1952. Class 38.

564,959. Perfume, Eau de Cologne, Toilet Water, Hand Lotion, Etc. Jacques Dobais, Inc., New York, N. Y.
Filed Mar. 26, 1951, Serial No. 611,775. Published June 17, 1952. Class 51.

564,960. Beer. Jacob Ruppert, New York, N. Y.
Filed Mar. 27, 1951, Serial No. 611,860. Published June 24, 1952. Class 48.

564,961. Face Cream. Dearborn Supply Company, Chicago, Ill.
Filed Mar. 29, 1951, Serial No. 611,945. Published June 17, 1952. Class 51.

564,962. Publication Issued From Time to Time. Acme Steel Company, Chicago, Ill.
Filed Mar. 30, 1951, Serial No. 611,992. Published July 1, 1952. Class 38.

564,963. Roofing Shingles. The Texas Company, Dover, Del., and New York, N. Y.
Filed Apr. 5, 1951, Serial No. 612,282. Published July 1, 1952. Class 12.

564,964. Spasmolytic for the Gastro-Intestinal Tract and Biliary Duct. C. H. Boehringer Sohn, Ingelheim-on-the-Rhein, Germany.
Filed Apr. 10, 1951, Serial No. 612,434. Published June 17, 1952. Class 18.

564,965. Pocket Knives, Safety Razor Blades, and Safety Razors. The Christy Company, Fremont, Ohio.
Filed Apr. 13, 1951, Serial No. 612,588. Published June 17, 1952. Class 23.

564,966. Core and Mold Washes. Cities Service Oil Company, Bartlesville, Okla.
Filed Apr. 18, 1951, Serial No. 612,790. Published July 8, 1952. Class 1.

564,967. Furniture—Namely, the Following Wooden Bedroom Furniture, To-Wit: Dressers, Vanities, Chests, Beds, Etc. Kent-Coffey Manufacturing Company, Lenoir, N. C.
Filed Apr. 20, 1951, Serial No. 612,917. Published July 15, 1952. Class 32.

564,968. Furniture—Namely, the Following Wooden Bedroom Furniture, To-Wit: Dressers, Vanities, Chests, Beds, Etc. Kent-Coffey Manufacturing Company, Lenoir, N. C.
Filed Apr. 20, 1951, Serial No. 612,920. Published July 15, 1952. Class 32.

564,969. Non-Alcoholic Maltless Grape-Flavored Soft Drinks. Annie Oakley Enterprises, Los Angeles, Calif., assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif., a corporation of California.
Filed Apr. 24, 1951, Serial No. 613,040. Published July 1, 1952. Class 45.

564,970. Vanilla and Other Flavor Bases for Use in the Manufacture of Maltless Soft Drinks. Dodge & Olcott, Inc., New York, N. Y.
Filed Apr. 24, 1951, Serial No. 613,056. Published June 10, 1952. Class 45.

564,971. Caulking and Glazing Compound. Presstite Engineering Company, St. Louis, Mo.
Filed Apr. 26, 1951, Serial No. 613,187. Published July 1, 1952. Class 12.

564,972. Ladies' Shoes of Cloth, Leather, Rubber, and Combinations Thereof. Tupper Shoes, Inc., New York, N. Y.
Filed Apr. 30, 1951, Serial No. 613,351. Published Jan. 8, 1952. Class 39.

564,973. Gas Feeding Masks. Albert A. Ray, doing business under the fictitious name and style of Ray Products Company, Alhambra, Calif.
Filed May 4, 1951, Serial No. 613,527. Published July 1, 1952. Class 44.

564,974. Shoe Welts. Wright-Batchelder Corporation, Boston, Mass.
Filed May 4, 1951, Serial No. 613,549. Published July 15, 1952. Class 39.

564,975. Piece Goods Wholly of Wool, or Piece Goods Mainly of Wool Combined With Silk, Cotton, or Synthetic Fibers, or Any Combination of Silk, Cotton, or Synthetic Fibers. Wain, Shiell & Son Limited, London, England.
Filed May 7, 1951, Serial No. 613,619. Published July 8, 1952. Class 42.

564,976. Lipstick. Lever Brothers Company, New York, N. Y.
Filed May 11, 1951, Serial No. 613,778. Published July 8, 1952. Class 51.

564,977. Ladies', Misses', and Children's Suits, Dresses, and Coats. Higginbotham Bailey Company, Dallas, Tex.
Filed May 12, 1951, Serial No. 613,958. Published July 15, 1952. Class 39.

564,978. Hand-Hooked Cotton and Wool Rugs. Allied Stores Corporation, New York, N. Y.
Filed May 18, 1951, Serial No. 614,027. Published July 15, 1952. Class 42.

564,979. Window Curtains, and Curtain Fabrics of Cotton, Rayon, and Synthetic Fibres for Making Into Curtains. Sears, Roebuck and Co., Chicago, Ill.
Filed May 19, 1951, Serial No. 614,110. Published July 15, 1952. Class 42.

564,980. Unsupported Vinyl Sheeting for Making Into Window and Shower Curtains, Raincoats, Tablecloths, and the Like. Toscony Fabrics, Inc., New York, N. Y.
Filed May 23, 1951, Serial No. 614,272. Published July 15, 1952. Class 42.

564,981. Columns Published in Newspapers. Allen Bell, Knoxville, Tenn.
Filed May 24, 1951, Serial No. 614,284. Published July 15, 1952. Class 38.

564,982. Imitation Leather, Impregnated Fabrics Resembling Imitation Leather, and Tarpaulins. Färberei Schlieren A.-G., Zurich and Schlieren, Switzerland.
Filed June 1, 1951, Serial No. 614,643. Published July 15, 1952. Class 50.

564,983. Ladies' Coats and Men's Overcoats. Aquascutum, Limited, London, England.
Filed June 4, 1951, Serial No. 614,684. Published June 10, 1952. Class 39.

564,984. Men's and Boys' Outer Shirts, Undershirts, and Under Shorts. Cluett, Peabody & Co., Inc., Troy, N. Y.
Filed June 5, 1951, Serial No. 614,753. Published Feb. 19, 1952. Class 39.

564,985. Fresh Vegetables—Namely, Tomatoes. W. D. Loveless & Son, Watsonville, Calif.
Filed June 8, 1951, Serial No. 614,950. Published July 15, 1952. Class 46.

564,986. Expanded and/or Comminuted Perlite Aggregate for Use as an Ingredient in Abrasives and Polishes. Great Lakes Carbon Corporation, New York, N. Y.
Filed June 15, 1951, Serial No. 615,217. Published July 1, 1952. Class 4.

564,987. Non-Woven Textile Fabrics of Cotton, Rayon, and Synthetic Fibers; Towels and Napkins. Chicopee Manufacturing Corporation of New Hampshire, New Brunswick, N. J., assignor to Chicopee Mills, Inc., New York, N. Y., a corporation of New York.
Filed June 19, 1951, Serial No. 615,370. Published July 15, 1952. Class 42.

564,988. Non-Woven Textile Fabrics of Cotton, Rayon, and/or Synthetic Fibers, Table Napkins, Table Cloths, and Towels. Chicopee Manufacturing Corporation of New Hampshire, New Brunswick, N. J., assignor to Chicopee Manufacturing Corporation, New Brunswick, N. J., a corporation of Massachusetts.
Filed June 19, 1951, Serial No. 615,371. Published July 15, 1952. Class 42.

564,989. Piece Goods of Rayon Only, or of Rayon in Combination With Cotton and/or Nylon. United Merchants and Manufacturers, Inc., New York, N. Y.
Filed June 22, 1951, Serial No. 615,584. Published July 15, 1952. Class 42.

564,990. Textile Fabrics in the Piece of Nylon, Cotton, Rayon, Protein Fibres, and Combinations Thereof. Hego Fabrics, Inc., New York, N. Y.
Filed June 26, 1951, Serial No. 615,707. Published July 15, 1952. Class 42.

564,991. Floor and Wall Tile. Kentile, Inc., Brooklyn, N. Y.
Filed June 26, 1951, Serial No. 615,713. Published July 8, 1952. Class 12.

564,992. Ladies' Coats, Suits, and Sport Jackets. Miss France Coats, Inc., New York, N. Y.
Filed June 26, 1951, Serial No. 615,715. Published June 10, 1952. Class 39.

564,993. Unmedicated Bandages for Therapeutic Purposes. Harker Stagg Limited, London, England.
Filed June 28, 1951, Serial No. 615,833. Published July 8, 1952. Class 44.

564,994. Medicinal Skin Lotion. Scientific Solutions, Inc., West Palm Beach, Fla.
Filed June 28, 1951, Serial No. 615,857. Published July 8, 1952. Class 18.

564,995. Chemical Cleaning Compound—Namely, a Detergent for General Industrial Cleaning Purposes. L. Sonneborn Sons, Inc., doing business under the name Whisticlean Division L. Sonneborn Sons, Inc., New York, N. Y.
Filed June 30, 1951, Serial No. 615,946. Published July 1, 1952. Class 52.

564,996. Woolen Piece Goods. A. D. Juilliard & Co., Inc., New York, N. Y.
Filed July 14, 1951, Serial No. 616,493. Published July 15, 1952. Class 42.

564,997. Brushes—Namely, Toothbrushes. Johnson & Johnson, operating under the trade name Tek-Hughes, New Brunswick, N. J.
Filed July 19, 1951, Serial No. 616,671. Published May 6, 1952. Class 29.

564,998. Liquefied Petroleum Gas To Be Used as Fuel. The Bing Gas Company, Kalamazoo, Mich.
Filed July 21, 1951, Serial No. 616,755. Published July 15, 1952. Class 6.

564,999. Canned Tomato Paste. F. E. Booth Company, Inc., San Francisco, Calif.
Filed July 24, 1951, Serial No. 616,845. Published June 17, 1952. Class 46.

565,000. Medicinal Preparation for the Treatment of Asthma. Ralph Garris, Bushkill, Pa.
Filed July 26, 1951, Serial No. 616,954. Published June 17, 1952. Class 18.

565,001. Pyrophoric Lighters for Smokers. Karat-Werk Maschinen- und Metallwarenfabrik Gesellschaft m. b. H., Vienna, Austria.
Priority under Sec. 44(d). Austrian Registration No. 22,015, filed Mar. 16, 1951.
Filed July 27, 1951, Serial No. 617,036. Published July 8, 1952. Class 8.

565,002. Vitaminized Live Stock Feeds. N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar," Weesp and Amsterdam, Netherlands.
Filed July 27, 1951, Serial No. 617,053. Published June 17, 1952. Class 46.

565,003. Industrial Directory, Buyer's Guide, and Classified Telephone Directory, Published Annually. Bell Directory Publishers, Inc., New York, N. Y.
Filed Aug. 8, 1951, Serial No. 617,432. Published July 1, 1952. Class 38.

565,004. Industrial Directory, Buyer's Guide, and Classified Telephone Directory, Published Annually. Industrial Directory Publishers, Detroit, Mich.
Filed Aug. 8, 1951, Serial No. 617,441. Published July 1, 1952. Class 38.

565,005. Calendar-Type Publication in Booklet Form, Issued Periodically, and for a Newspaper Column. Rose Sandler, also known as RoSand, doing business as Courage School, Washington, D. C., and New York, N. Y.
Filed Aug. 9, 1951, Serial No. 617,513. Published July 15, 1952. Class 38.

565,006. Lotion for the Skin and Hands; Liquid Astringent Having Skin-Cleansing Properties; Liquid Make-Up, and Cream Make-Up. Campana Corporation, Batavia, Ill.
Filed Aug. 10, 1951, Serial No. 617,533. Published July 1, 1952. Class 51.

565,007. Paper Tray Covers. Crown Zellerbach Corporation, also doing business as Crown Willamette Paper Company, San Francisco, Calif.
Filed Aug. 13, 1951, Serial No. 617,601. Published July 15, 1952. Class 37.

565,008. Cellular Expanded Bodies of Plastic Materials Other Than Rubber for Making Into Various Articles of Manufacture. The Sponge Rubber Products Company, Shelton, Conn.
Filed Aug. 16, 1951, Serial No. 617,771. Published June 17, 1952. Class 1.

565,009. Worsted Shetland and Worsted Saxony Fabric in the Piece. Howse, Mead & Sons, Inc., New York, N. Y.
Filed Aug. 20, 1951, Serial No. 617,877. Published July 15, 1952. Class 42.

565,010. Worsted Fabric in the Piece. Howse, Mead & Sons, Inc., New York, N. Y.
Filed Aug. 20, 1951, Serial No. 617,879. Published July 15, 1952. Class 42.

565,011. Manufactured Ice. Amarillo Ice Company, Amarillo, Tex.
Filed Aug. 21, 1951, Serial No. 617,904. Published July 1, 1952. Class 1.

565,012. Vodka. G. F. Heublein & Bro., Inc., Hartford, Conn.
Filed Aug. 24, 1951, Serial No. 618,038. Published June 24, 1952. Class 49.

565,013. House Slippers for Men, Women, and Children. S. Goldberg & Co. Inc., Hackensack, N. J.
Filed Aug. 27, 1951, Serial No. 618,113. Published June 10, 1952. Class 39.

565,014. Outer Shirts for Men and Young Men. Truval Manufacturers, Inc., New York, N. Y.
Filed Aug. 27, 1951, Serial No. 618,134. Published May 27, 1952. Class 39.

565,015. Footwear for Men and Women—Namely, Boots, Shoes, and Sandals. Tony Lama, El Paso, Tex.
Filed Aug. 31, 1951, Serial No. 618,299. Published July 15, 1952. Class 39.

565,016. Doors. Casey Door Company, Oakland, Calif.
Filed Sept. 4, 1951, Serial No. 618,342. Published July 1, 1952. Class 12.

565,017. Ammoniated Dental Cream. Coverley Laboratories, Inc., New York, N. Y.
Filed Sept. 5, 1951, Serial No. 618,389. Published July 8, 1952. Class 51.

565,018. Men's and Boys' Shoes. Littles Shoe Store, Pittsburgh, Pa.
Filed Sept. 10, 1951, Serial No. 618,588. Published June 24, 1952. Class 39.

565,019. Soda Water, Dry Gingerale, Ginger Beer, Quinine Water, and Sarsaparilla. Schweppes (Colonial & Foreign) Limited, London, England.
Filed Sept. 11, 1951, Serial No. 618,657. Published June 3, 1952. Class 45.

565,020. Chemicals and Chemical Compositions, Specifically Chromium Chemicals, Etc. The Harshaw Chemical Company, Cleveland, Ohio.
Filed Sept. 14, 1951, Serial No. 618,793. Published July 8, 1952. Class 6.

565,021. Cotton Used To Wipe Residual Powder and Cleaner Particles From Electrophotographic Plates Used in Making Electrophotographic Copies. The Haloid Company, Rochester, N. Y.
Filed Sept. 15, 1951, Serial No. 618,852. Published July 8, 1952. Class 1.

565,022. Locks and Keys and Parts Thereof—Namely, Escutcheon Plates and Trim. Schlage Lock Company, San Francisco, Calif.
Filed Sept. 24, 1951, Serial No. 619,170. Published July 15, 1952. Class 25.

565,023. Cereal Flakes Used for the Manufacture of Beer. J. R. Short Milling Company, Chicago, Ill.
Filed Sept. 26, 1951, Serial No. 619,264. Published July 8, 1952. Class 48.

565,024. Canned Fruits and Vegetables; Canned Tomato Juice. Haxton Foods, Inc., Oakfield, N. Y.
Filed Oct. 2, 1951, Serial No. 619,506. Published July 15, 1952. Class 46.

565,025. Scotch Whisky. Chisholm & Co., Glasgow, Scotland.
Filed Oct. 5, 1951, Serial No. 619,602. Published June 24, 1952. Class 49.

565,026. Men's Shoes and Slippers Made From Leather. Gly-Ders Footwear, Racine, Wis.
Filed Oct. 5, 1951, Serial No. 619,618. Published June 10, 1952. Class 39.

565,027. Newspaper Published Every Evening Except Sunday. Signal Publications, Huntington Park, Calif.
Filed Oct. 6, 1951, Serial No. 619,683. Published June 24, 1952. Class 38.

565,028. Women's Shoes. The Chesapeake Shoe Mfg. Co., Baltimore, Md.
Filed Oct. 9, 1951, Serial No. 619,740. Published June 10, 1952. Class 39.

565,029. Women's and Children's Shoes. Jay Shoe Manufacturing Co., Inc., Cambridge, Mass.
Filed Oct. 9, 1951, Serial No. 619,757. Published June 10, 1952. Class 39.

565,030. Department or Section of a Periodical Publication. Weekly Publications, Inc., New York, N. Y.
Filed Oct. 11, 1951, Serial No. 619,906. Published July 1, 1952. Class 38.

565,031. Lipstick, Make-Up Preparations, and Skin Lotions. Campana Corporation, Batavia, Ill.
Filed Oct. 12, 1951, Serial No. 619,920. Published July 8, 1952. Class 51.

565,032. All Meat Knackwurst and All Beef Knackwurst. Hygrade Food Products Corporation, Detroit, Mich.
Filed Oct. 12, 1951, Serial No. 619,942. Published July 15, 1952. Class 46.

565,033. Pinking Shears. W. L. W. Mfg. Co., Inc., Chicago, Ill.
Filed Oct. 17, 1951, Serial No. 620,116. Published June 17, 1952. Class 23.

565,034. Periodical. Clarostat Mfg. Co., Inc., Dover, N. H.
Filed Oct. 18, 1951, Serial No. 620,143. Published July 1, 1952. Class 38.

565,035. Publication of Current Analysis and Permanent Reference Data That Treats All Aspects of Agriculture and Its Effect on Business and Investments, Published From Time to Time. Doane Agricultural Service, Inc., St. Louis, Mo.
Filed Oct. 19, 1951, Serial No. 620,199. Published July 1, 1952. Class 38.

565,036. Women's and Misses' Coats and Suits. Fred F. Lehrer, doing business as Haymarket Coat Company, Los Angeles, Calif.
Filed Oct. 20, 1951, Serial No. 620,262. Published June 17, 1952. Class 39.

565,037. Periodical Also Issued as a Separate Publication. Haire Publishing Company, New York, N. Y.
Filed Oct. 23, 1951, Serial No. 620,342. Published July 1, 1952. Class 38.

565,038. Maltless Soft Drinks and Carbonated Waters and Table Water. Miscoe Spring Water Co., Inc., Worcester, Mass.
Filed Oct. 26, 1951, Serial No. 620,521. Published July 8, 1952. Class 45.

565,039. Hard Surface Floor Covering of the Nature of Linoleum. Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa.
Filed Oct. 27, 1951, Serial No. 620,556. Published July 15, 1952. Class 20.

565,040. Paper Towels and Paper Toilet Tissue. American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed Oct. 29, 1951, Serial No. 620,562. Published July 15, 1952. Class 37.

565,041. Paper Towels. American Linen Supply Co., sometimes doing business as Steiner Sales Company, Division of American Linen Supply Co., Carson City, Nev., and Chicago, Ill.
Filed Oct. 29, 1951, Serial No. 620,563. Published July 15, 1952. Class 37.

565,042. Monthly Periodical. Triangle Publications, Inc., Philadelphia, Pa.
Filed Oct. 29, 1951, Serial No. 620,632. Published July 1, 1952. Class 38.

565,043. Soles and Heels of Rubber Composition or Its Equivalent for Boots and Shoes. The Bearfoot Sole Company, Inc., Boston, Mass.
Filed Oct. 30, 1951, Serial No. 620,661. Published July 15, 1952. Class 39.

565,044. Periodical Devoted to Articles of Scientific and General Interest, National and International Current Events, and Editorial Comments Thereon, Published Quarterly. Judy Publishing Company, Chicago, Ill.
Filed Oct. 31, 1951, Serial No. 620,735. Published July 1, 1952. Class 38.

565,045. Poultry Feed, the Primary Ingredients of Which Are Meat Scrap, Fish Meal, Soy Bean Oil Meal, Corn Gluten Meal, Dehydrated Alfalfa Meal, Yellow Corn Meal and Wheat Bran; Etc. Wirthmore Feed Co., Cleveland, Ohio.
Filed Nov. 1, 1951, Serial No. 620,796. Published July 15, 1952. Class 46.

565,046. Liniment Preparation for External Application in the Alleviation of Muscular Aches and Pains. Ali Debeh, doing business as Arlin Pharmaceutical Laboratories, North Chicago, Ill.
Filed Nov. 2, 1951, Serial No. 620,804. Published June 17, 1952. Class 18.

565,047. Sedative Hypnotic. Nepera Chemical Co. Inc., Nepera Park, N. Y.
Filed Nov. 2, 1951, Serial No. 620,815. Published June 17, 1952. Class 18.

565,048. Notebooks, Tablets, Loose-Leaf Binders, Loose-Leaf Fillers, Examination Paper, Drawing Paper, Music Paper, Art Paper, Theme Paper, Penmanship Paper, and Typewriter Paper. Springfield Tablet Manufacturing Company, Springfield, Mo.
Filed Nov. 5, 1951, Serial No. 620,903. Published July 8, 1952. Class 37.

565,049. Enzyme Preparation Used in the Treatment of Animal Hides Which Treatment Consists Mainly of the Removal of Undesirable Proteinaceous Substances From the Hides. Takamine Laboratory, Inc., Clifton, N. J.
Filed Nov. 6, 1951, Serial No. 620,940. Published July 8, 1952. Class 6.

565,050. Pharmaceutical Preparation in Oral or Parenteral Forms for Use as Neuro-Muscular Blocking Agents. Charles E. Frosst & Co., Montreal, Quebec, Canada.
Filed Nov. 7, 1951, Serial No. 620,963. Published June 17, 1952. Class 18.

565,051. Chairs and Stools. Falco Products Co., Philadelphia, Pa.
Filed Nov. 8, 1951, Serial No. 621,008. Published July 15, 1952. Class 32.

565,052. House Organ Publication. Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind.
Filed Nov. 8, 1951, Serial No. 621,021. Published July 15, 1952. Class 38.

565,053. Shoes of Leather, Fabric, and/or Combinations Thereof for Men, Women, and Children. International Shoe Co., St. Louis, Mo.
Filed Nov. 9, 1951, Serial No. 621,066. Published June 10, 1952. Class 39.

565,054. Artificial Fishing Lures. Lur-Ozark, Inc., Webb City, Mo.
Filed Nov. 13, 1951, Serial No. 621,154. Published July 15, 1952. Class 22.

565,055. Mineral White Oil, Petrolatum, and Petroleum Sulphonates. Petroleum Specialties, Inc., New York, N. Y.
Filed Nov. 13, 1951, Serial No. 621,167. Published July 8, 1952. Class 6.

565,056. Canned Tuna Fish. Westgate-Sun Harbor Company, San Diego, Calif.
Filed Nov. 13, 1951, Serial No. 621,181. Published July 8, 1952. Class 46.

565,057. Women's Short Slacks. White Stag Mfg. Co., Portland, Oreg.
Filed Nov. 13, 1951, Serial No. 621,183. Published June 17, 1952. Class 39.

565,058. Preparations for Use in Overcoming the Craving for Tobacco. Xenotcek, Inc., Van Nuys, Calif.
Filed Nov. 13, 1951, Serial No. 621,189. Published June 24, 1952. Class 18.

565,059. Finished Leather. Seroussi Brothers, Inc., Gloversville, N. Y.
Filed Nov. 14, 1951, Serial No. 621,229. Published July 8, 1952. Class 1.

565,060. Weekly Magazine. Time, Incorporated, New York, N. Y.
Filed Nov. 14, 1951, Serial No. 621,236. Published July 15, 1952. Class 38.

565,061. Weekly Magazine. Time, Incorporated, New York, N. Y.
Filed Nov. 14, 1951, Serial No. 621,237. Published July 15, 1952. Class 38.

565,062. Tinned Ham, Tinned Salami, Tinned Bacon, and Sausages. Hartog's Vleeschmaatschappij Naamlooze Vennootschap, Rotterdam, Netherlands.
Filed Nov. 14, 1951, Serial No. 621,248. Published July 15, 1952. Class 46.

565,063. Cement Base Coating for Use on Masonry Surfaces. Henry W. Cairns, doing business as Rox Products Company, Detroit, Mich.
Filed Nov. 15, 1951, Serial No. 621,255. Published July 8, 1952. Class 12.

565,064. Men's and Boys' Leather Shoes. Eagle Shoe Mfg. Company, Inc., Everett, Mass.
Filed Nov. 15, 1951, Serial No. 621,262. Published June 17, 1952. Class 39.

565,065. Coal. The Berwind-White Coal Mining Company, Philadelphia, Pa.
Filed Nov. 16, 1951, Serial No. 621,304. Published July 1, 1952. Class 1.

565,066. Magazines. Repertoire, Inc., Lansing, Mich.
Filed Nov. 17, 1951, Serial No. 621,377. Published July 15, 1952. Class 38.

565,067. Children's Letters Issued in a Series. Mary Hedges Black, New York, N. Y.
Filed Nov. 19, 1951, Serial No. 621,386. Published July 8, 1952. Class 38.

565,068. Guava Juice and Blended Guava and Lime Juices, Papayas, Mangos, and Barbados Cherries, in Frozen Form and Juices, and in Other Forms—Namely, Jams, Jellies, and Preserves. The Guava Corporation, Richmond, Fla.
Filed Nov. 21, 1951, Serial No. 621,513. Published July 15, 1952. Class 46.

565,069. Children's Clothing, Consisting of Hats, Jodhpurs, Jacquards, Sweaters, Etc. William Boyd, Beverly Hills, Calif.
Filed Nov. 23, 1951, Serial No. 621,541. Published July 8, 1952. Class 39.

565,070. Ladies' and Girls' Shoes. Carlisle Shoe Company, Carlisle, Pa.
Filed Nov. 23, 1951, Serial No. 621,543. Published June 10, 1952. Class 39.

565,071. Synthetic Sulfonates of Organic Compounds Including Petroleum Fractions. Bray Chemical Company, Los Angeles, Calif.
Filed Nov. 26, 1951, Serial No. 621,653. Published July 8, 1952. Class 6.

565,072. Column of a Newspaper. The Oklahoma Publishing Company, Oklahoma City, Okla.
Filed Nov. 26, 1951, Serial No. 621,680. Published July 1, 1952. Class 38.

565,073. Column in a Newspaper Publication. Parade Publication, Inc., New York, N. Y.
Filed Nov. 26, 1951, Serial No. 621,681. Published July 15, 1952. Class 38.

565,074. Men's and Boys' Hats, Shoes Made of Leather and Fabric, or of Combinations Thereof, Collars, Neckties, Mufflers and Scarves. Saks & Company, New York, N. Y.
Filed Nov. 26, 1951, Serial No. 621,685. Published June 10, 1952. Class 39.

565,075. Fur Pelts. American Fox Breeders Association, Burlington, Wis.
Filed Nov. 27, 1951, Serial No. 621,697. Published July 1, 1952. Class 1.

565,076. Books. The New American Library of World Literature, Inc., New York, N. Y.
Filed Nov. 27, 1951, Serial No. 621,721. Published July 15, 1952. Class 38.

565,077. Books. The New American Library of World Literature, Inc., New York, N. Y.
Filed Nov. 27, 1951, Serial No. 621,722. Published July 15, 1952. Class 38.

565,078. Column for Weekly Trade Publication in the Textile Field. Elliott Service Company, Inc., Mount Vernon, N. Y.
Filed Nov. 28, 1951, Serial No. 621,760. Published July 1, 1952. Class 38.

565,079. Cigarettes. Stephano Brothers, Philadelphia, Pa.
Filed Nov. 28, 1951, Serial No. 621,791. Published July 8, 1952. Class 17.

565,080. Ladies' Coats and Topcoats. Joan Carol Corporation, Garfield, N. J.
Filed Nov. 29, 1951, Serial No. 621,813. Published June 10, 1952. Class 39.

565,081. Acoustical Plaster. Blue Diamond Corporation, Los Angeles, Calif.
Filed Nov. 30, 1951, Serial No. 621,858. Published July 1, 1952. Class 12.

565,082. Crayons. Binney & Smith Company, New York, N. Y.
Filed Nov. 30, 1951, Serial No. 621,857. Published June 17, 1952. Class 37.

565,083. Molded Building Stone. Michael Principe, New York, N. Y.
Filed Nov. 30, 1951, Serial No. 621,900. Published July 1, 1952. Class 12.

565,084. Column in Printed Periodicals and Magazines. TeleVision Guide, Inc., New York, N. Y.
Filed Nov. 30, 1951, Serial No. 621,921. Published July 1, 1952. Class 38.

565,085. Interior Decorative Wall Tile. Peerless Plastics, Culver City, Calif.
Filed Dec. 1, 1951, Serial No. 621,979. Published July 1, 1952. Class 12.

565,086. Ladies' Coats and Suits. Fitts Dry Goods Company, Kansas City, Mo.
Filed Dec. 3, 1951, Serial No. 622,018. Published June 10, 1952. Class 39.

565,087. Tooth Brushes. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 3, 1951, Serial No. 622,035. Published July 8, 1952. Class 29.

565,088. Monthly Magazine. Time, Incorporated, New York, N. Y.
Filed Dec. 6, 1951, Serial No. 622,184. Published July 1, 1952. Class 38.

565,089. Perfumed Deodorant Blocks for Household and Industrial Use, Moth Proofing Liquid, Insecticide, and Pine Oil Disinfectant. Central O-B Products Co. Inc., Buffalo, N. Y.
Filed Dec. 7, 1951, Serial No. 622,200. Published July 8, 1952. Class 6.

565,090. Cartoons Published in Daily Newspapers. NEA Service, Inc., Cleveland, Ohio.
Filed Dec. 7, 1951, Serial No. 622,221. Published July 1, 1952. Class 38.

565,091. Printed Periodicals. Magna Engineering Corporation, Menlo Park, Calif.
Filed Dec. 10, 1951, Serial No. 622,306. Published July 1, 1952. Class 38.

565,092. Whiskey. The Foster Trading Corporation, doing business as T. W. Samuels Distillery and Old Jordan Distillery, Louisville, Ky.
Filed Dec. 12, 1951, Serial No. 622,387. Published July 15, 1952. Class 49.

565,093. Women's and Misses' Coats and Suits. C. B. Shane Corporation, Chicago, Ill.
Filed Dec. 12, 1951, Serial No. 622,416. Published July 15, 1952. Class 39.

565,094. Synthetic Resin Materials in the Form of Powders, Granules, Emulsions, Dispersions, and Solutions. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 13, 1951, Serial No. 622,446. Published July 8, 1952. Class 6.

565,095. Plaster and Concrete Aggregate. Zonolite Company, Chicago, Ill.
Filed Dec. 13, 1951, Serial No. 622,474. Published July 1, 1952. Class 12.

565,096. Shaving Brushes, Hair Brushes, Clothes Brushes. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 17, 1951, Serial No. 622,624. Published July 8, 1952. Class 29.

565,097. Periodical Published Monthly. Ziff-Davis Publishing Company, Chicago, Ill.
Filed Dec. 17, 1951, Serial No. 622,636. Published July 1, 1952. Class 38.

565,098. Bandelore Toy Spinning Tops. Donald F. Duncan, Incorporated, Chicago, Ill.
Filed Dec. 18, 1951, Serial No. 622,643. Published July 15, 1952. Class 22.

565,099. Trade Certificates. C I C Enterprises, Inc., Reno, Nev.
Filed Dec. 19, 1951, Serial No. 622,694. Published July 8, 1952. Class 38.

565,100. Trade Certificates. C I C Enterprises, Inc., Reno, Nev.
Filed Dec. 19, 1951, Serial No. 622,695. Published July 8, 1952. Class 38.

565,101. Asphalt Roofing Shingle. The Frelox Shingle Corporation, San Francisco, Calif.
Filed Dec. 24, 1951, Serial No. 622,787. Published July 1, 1952. Class 12.

565,102. Complete Feed for Livestock, Particularly Hogs. Pay Way Feed Mills, Inc., Kansas City, Mo.
Filed Dec. 26, 1951, Serial No. 622,843. Published July 15, 1952. Class 46.

565,103. Textile Fabrics in the Piece, Composed of Rayon, Cotton, Linen, Wool, Nylon, and Silk Fibres. Tanbro Fabrics Corp., New York, N. Y.
Filed Dec. 26, 1951, Serial No. 622,866. Published July 15, 1952. Class 42.

565,104. Ladies' and Misses' Coats, Suits, Jackets, and Skirts. The House of Swansdown, Inc., New York, N. Y.
Filed Dec. 29, 1951, Serial No. 622,997. Published July 15, 1952. Class 39.

565,105. Lye. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Dec. 29, 1951, Serial No. 623,010. Published July 8, 1952. Class 6.

565,106. Epsom Salt, Alkali Metal Silicates in Liquid and Solid Form, Sodium Carbonate, Sodium Phosphates, Sodium Aluminum Silicate Zeolites, Etc. Philadelphia Quartz Company of California, Berkeley, Calif.
Filed Jan. 2, 1952, Serial No. 623,070. Published July 8, 1952. Class 6.

565,107. Fish in Glass Jars. Paispearl Products, Inc., New York, N. Y., Eastport, Maine, and Hastings-on-Hudson, N. Y.
Filed Jan. 3, 1952, Serial No. 623,153. Published July 15, 1952. Class 46.

565,108. Periodical Publication Published at the Present Time Daily With the Exception of Saturdays, Sundays, and Holidays. The National Provisioner, Inc., Chicago, Ill.
Filed Jan. 11, 1952, Serial No. 623,473. Published July 15, 1952. Class 38.

565,109. Muffins and Bread. S. B. Thomas, Inc., Long Island City, N. Y.
Filed Jan. 11, 1952, Serial No. 623,487. Published June 24, 1952. Class 46.

565,110. Toothbrushes and Denture Brushes. Weco Products Company, Chicago, Ill.
Filed Jan. 11, 1952, Serial No. 623,490. Published July 15, 1952. Class 29.

565,111. Toothbrushes and Denture Brushes Weco Products Company, Chicago, Ill.
Filed Jan. 11, 1952, Serial No. 623,491. Published July 15, 1952. Class 29.

565,112. Toothbrushes and Denture Brushes. Weco Products Company, Chicago, Ill.
Filed Jan. 11, 1952, Serial No. 623,492. Published July 15, 1952. Class 29.

565,113. Weekly Periodical Publication. American Lumberman, Inc., Chicago, Ill.
Filed Jan. 16, 1952, Serial No. 623,637. Published July 15, 1952. Class 38.

565,114. Chemical Composition Used as a Brightener in Electroplating Solutions. Hanson-Van Winkle-Munning Company, Matawan, N. J.
Filed Jan. 16, 1952, Serial No. 623,653. Published July 15, 1952. Class 6.

565,115. Rice. Norman Webb Hutchings, Sr., and Norman Webb Hutchings, Jr., doing business under the names China Doll Company and Hutchings Brokerage Company, Mobile, Ala.
Filed Jan. 17, 1952, Serial No. 623,707. Published July 15, 1952. Class 46.

565,116. Infants' Bath Stands. Trimble, Inc., Rochester, N. Y.
Filed Jan. 18, 1952, Serial No. 623,782. Published July 15, 1952. Class 32.

565,117. Mattresses and Box Springs. The Englander Company, Inc., Chicago, Ill.
Filed Jan. 22, 1952, Serial No. 623,878. Published July 15, 1952. Class 32.

565,118. Germicidal, Sanitizing, Disinfectant, Deodorant, and Fungicidal Compound for Use in Industrial, Agricultural, Institutional, and Domestic Applications. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Jan. 25, 1952, Serial No. 624,116. Published July 8, 1952. Class 6.

565,119. Crayons. Morley-Stein Products, New York, N. Y.
Filed Feb. 6, 1952, Serial No. 624,607. Published July 15, 1952. Class 37.

565,120. Self Igniting Incense Sticks and Caps. Herbert R. Hartley, doing business as The Strike-Out Company, Tacoma, Wash.
Filed Feb. 9, 1952, Serial No. 624,765. Published July 15, 1952. Class 6.

565,121. Crayons, Pencils, Pens, Holders for Crayons, Pencils, Pens; Crayon Boxes, Pencil Boxes, Pen Boxes, Writing Papers, and Drawing Papers. American Drawing Material, Inc., New York, N. Y.
Filed Feb. 12, 1952, Serial No. 624,805. Published July 15, 1952. Class 37.

565,122. Fresh Fruits—Namely, Apples, Pears, Peaches, Apricots, Plums, Prunes, and Cherries. George F. Joseph, trading under the name of George F. Joseph Co., Yakima, Wash.
Filed Feb. 14, 1952, Serial No. 624,953. Published July 15, 1952. Class 46.

565,123. Blankets Made of Rayon and Wool. Textron Inc., Providence, R. I., assignor to Chatham Manufacturing Company, a corporation of North Carolina.
Filed Feb. 23, 1952, Serial No. 625,442. Published July 1, 1952. Class 42.

565,124. Pneumatic Tires and Pneumatic Tubes Therefor Composed of Rubber, Either Natural or Synthetic. Pacific Tire & Rubber Company, Oakland, Calif.
Filed Mar. 6, 1952, Serial No. 626,045. Published July 15, 1952. Class 35.

565,125. Developer Used in Developing Color of Diazo-Images Photo-Chemically Printed on Paper. Charles Bruning Company, Inc., Teterboro, N. J.
Filed Mar. 8, 1952, Serial No. 626,143. Published July 8, 1952. Class 6.

565,126. Preparations for the Treatment of Colds and Hay Fever. The Grove Laboratories, Inc., St. Louis, Mo.
Filed May 2, 1952, Serial No. 628,021. Published July 8, 1952. Class 18.

Service Marks

565,127. Consultation Engineering Services for Design, Construction, and Operation of Catalytic Treating and Reforming Units. Phillips Petroleum Company, Bartlesville, Okla.
Filed Jan. 6, 1949, Serial No. 571,742. Published July 15, 1952. Class 100.

565,128. Installation, Maintenance, and Repair of Automotive Equipment, Accessories, and Parts and of Household and Electrical Appliances. Checker Stores, Inc., Cincinnati, Ohio.
Filed July 29, 1949, Serial No. 582,674. Published July 15, 1952. Class 103.

565,129. Insurance Brokerage in Accident and Life Insurance Through the Medium of Insurance Vending Machines. Vendomatic, Torrance, Calif.
Filed Feb. 24, 1950, Serial No. 593,028. Published July 15, 1952. Class 102.

565,130. Insurance Brokerage in Accident and Life Insurance Through the Medium of Insurance Vending Machines. Vendomatic, Torrance, Calif.
Filed Feb. 24, 1950, Serial No. 593,029. Published July 15, 1952. Class 102.

565,131. Insurance Brokerage in Accident and Life Insurance Through the Medium of Insurance Vending Machines. Vendomatic, Torrance, Calif.
Filed Feb. 24, 1950, Serial No. 593,030. Published July 15, 1952. Class 102.

565,132. Applying a Plastic Facing to the Walls of Buildings To Enhance the Attractiveness Thereof. Harry M. Dufford, doing business under the name and style of Art Stone Fabricators, Chicago, Ill.
Filed July 13, 1950, Serial No. 600,578. Published July 15, 1952. Class 103.

565,133. Stock and Other Market Analyses and Forecasts of Price and Market Changes. Robert G. Lester, doing business under the name and style of Pivot Service, Chicago, Ill.
Filed June 23, 1951, Serial No. 615,607. Published July 15, 1952. Class 102.

Collective Mark

565,134. Joint Compounds Used in Sealing the Joints Between the Ends of Ceramic Pipe. National Clay Pipe Manufacturers, Inc., Chicago, Ill.
Filed Aug. 31, 1951, Serial No. 618,302. Published July 8, 1952. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

565,135. (Class 30. Crockery, Earthenware, and Porcelain.) Metlox Manufacturing Co., Manhattan Beach, Calif. Original filed, act of 1946, Principal Register, Dec. 1, 1947; amended to application, Supplemental Register, Apr. 10, 1952, Serial No. 542,857.

California Ivy

For Dinnerware, China, Pottery, and Analogous Glazed Earthenware—Namely, Cups, Saucers, Plates, Bowls, Vegetable Dishes, Covered Dishes, Platters, Sugar Bowls, Creamers, Fruit Dishes, Gravy Boats, Salt and Pepper Shakers, Jam and Jelly Dishes, Tumblers, Pitchers, Teapots, Children's Sets, Vases, Flower Pots and Planters, and Coasters, All of Which Are Made Substantially From Earth or Clay.
Claims use since Nov. 8, 1947.

565,136. (Class 18. Medicines and Pharmaceutical Preparations.) Davis Enterprises, Inc., Dayton, Ohio. Original filed, act of 1946, Principal Register, Feb. 20, 1948; amended to application, Supplemental Register, Oct. 14, 1949, Serial No. 550,221.



For Vitamin Concentrates, Dry Vitamin Fortifiers, Animal Proteins, and Wheat Germ Oil Sold Alone and Sold in Combination With Other Products for Use in Animal Foods, Such as Poultry Feed, Hog Feed and Cattle Feed.
Claims use since Nov. 1, 1947.

565,137. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Bonney Forge and Tool Works, Allentown, Pa. Original filed, act of 1946, Principal Register, Dec. 28, 1948; amended to application, Supplemental Register, Aug. 1, 1950, Serial No. 571,193.

Wobble Drive Extension

The words "Drive" and "Extension" are disclaimed. For Extension Pieces for Socket Wrenches.
Claims use since Aug. 11, 1948.

565,138. (Class 5. Adhesives.) James E. Donaldson, Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 25, 1949; amended to application, Supplemental Register, Nov. 21, 1951, Serial No. 572,730.

SAF-T-MOUNT

For Mounting Material for a Wall Support Comprising a Strip of Latex Material With Two Sides Thereof Treated To Receive Adhesive Material Contained in a Separate Capsule.
Claims use since May 15, 1948.

565,139. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) United Industries, Inc., doing business as Power Tools, Inc., Chicago, Ill., and Beloit, Wis. Original filed, act of 1946, Principal Register, May 21, 1949; amended to application, Supplemental Register, May 21, 1952, Serial No. 579,458.

SUPERSHOP

For Convertible Machine Tools, Each Convertible Tool To Operate Interchangeably as a Saw, Drill Press, Lathe, Sander, and Grinder or Polisher, and Tools, Parts, and Attachments Therefor.
Claims use since May 10, 1949.

565,140. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Meyercord Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Apr. 12, 1950; amended to application, Supplemental Register, July 12, 1952, Serial No. 595,610.

Fuson

For Electrically Heated and Mechanically Driven Machines for Applying Decalcomania Transfers to Base Sheets.
Claims use since Feb. 17, 1950.

565,141. (Class 52. Detergents and Soaps.) Swift & Company, Chicago, Ill. Filed Apr. 12, 1950, Serial No. 595,626.

PICK THE POLKA DOT PACKAGE

Applicant claims ownership of Registration No. 352,550.
For Cleanser.
Claims use since June 1945.

565,142. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) National Ring Traveler Company, Pawtucket, R. I. Original filed, act of 1946, Principal Register, Apr. 22, 1950; amended to application, Supplemental Register, Feb. 9, 1952, Serial No. 596,179.

THE PIERCE
E

For Ring Travelers.
Claims use since Jan. 13, 1949.

565,143. (Class 51. Cosmetics and Toilet Preparations.) Palico, Inc., Livingston, N. J. Original filed, act of 1946, Principal Register, June 17, 1950; amended to application, Supplemental Register, Jan. 31, 1952, Serial No. 599,338.

TIPON

For Nail Polish Sold in Special Type Dispenser.
Claims use since May 2, 1950.

565,144. (Class 46. Foods and Ingredients of Foods.) Anarc, Incorporated, Nashville, Tenn. Original filed, act of 1946, Principal Register, June 21, 1950; amended to application, Supplemental Register, July 9, 1951, Serial No. 599,479.

Dairy Dip

For Ice Cream and Frozen Custard.
Claims use since June 8, 1950.

565,145. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Triton Manufacturing Company, Incorporated, East Haddam, Conn. Original filed, act of 1946, Principal Register, July 13, 1950; amended to application, Supplemental Register, May 12, 1952, Serial No. 600,632.

Thermo-jet

For Portable Power-Driven Sprayers for Spraying Insecticides and Like Materials.
Claims use since Mar. 1, 1950.

565,146. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Taylor-Hall Corp., Denver, Colo. Original filed, act of 1946, Principal Register, Aug. 4, 1950; amended to application, Supplemental Register, June 21, 1951, Serial No. 601,858.

TIRE LARM

For Alarm Whistle for Low Pressure in Automobile Tires.
Claims use since June 7, 1950.

565,147. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Grover Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Sept. 13, 1950; amended to application, Supplemental Register, July 9, 1952, Serial No. 603,481.

TRANSITUBES

For Pneumatic Tube Dispatch Systems, Carriers and Terminals Generally Sold as a Unit, and Parts Therefor.
Claims use since Aug. 19, 1949.

565,148. (Class 29. Brooms, Brushes, and Dusters.) Valcourt, Inc., Boonton, N. J. Original filed, act of 1946, Principal Register, Feb. 5, 1951; amended to application, Supplemental Register, June 11, 1952, Serial No. 609,669.

VALCOURT PADDIES

For Powder Puffs.
Claims use since Sept. 13, 1949.

565,149. (Class 46. Foods and Ingredients of Foods.) Fred Nishio, doing business as Nishio Ranch, Whittier, Calif. Original filed, act of 1946, Principal Register, Mar. 10, 1951; amended to application, Supplemental Register, June 7, 1952, Serial No. 611,143.

MY T KRISP

For Fresh Vegetables.
Claims use since Feb. 8, 1951.

565,150. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Nu-Label Machine Corporation, Little Ferry, N. J. Original filed, act of 1946, Principal Register, Mar. 22, 1951; amended to application, Supplemental Register, Jan. 9, 1952, Serial No. 611,654.

NU-LABEL MACHINE CORPORATION

For Label Cutting and Folding Machines.
Claims use since October 1950.

565,151. (Class 18. Medicines and Pharmaceutical Preparations.) Harwood Pharmacal Co., Inc., Newark, N. J. Original filed, act of 1946, Principal Register, Apr. 9, 1951; amended to application, Supplemental Register, Nov. 21, 1951, Serial No. 612,395.

SNOOZE

For Sedative Medicine.
Claims use since Aug. 4, 1949.

565,152. (Class 32. Furniture and Upholstery.) McCaldry, Inc., Oakland, Calif. Filed July 16, 1951, Serial No. 616,363.

ROLAROUND

Applicant claims ownership of Registration No. 548,856.
For Adjustable Seat for Dentists, Opticians, Barbers, and the Like.
Claims use since June 27, 1950.

565,153. (Class 43. Thread and Yarn.) Clarence Klug, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 17, 1951; amended to application, Supplemental Register, June 30, 1952, Serial No. 616,602.

GLASTHRED

For Thread and Continuous Filament and Staple Fiber Yarns Containing Glass Fibers.
Claims use since June 20, 1951.

565,154. (Class 43. Thread and Yarn.) Clarence Klug, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 17, 1951; amended to application, Supplemental Register, June 30, 1952, Serial No. 616,603.

GLASTRAND

For Thread and Continuous Filament and Staple Fiber Yarns Containing Glass Fibers.
Claims use since June 20, 1951.

565,155. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Thomas Longbotham, doing business under the assumed business name of American Diamond Saw Company, Portland, Oreg. Original filed, act of 1946, Principal Register, Aug. 17, 1951; amended to application, Supplemental Register, July 24, 1952, Serial No. 617,801.

CONE-LOC

For Drum Sanders, Particularly Expandable Drums for Holding Abrasive Cloth in Strip Form.
Claims use since Apr. 6, 1946.

Service Marks

565,156. (Class 103. Construction and Repair.) Larson Buick Co., Inc., Long Island City, N. Y. Original filed, act of 1946, Principal Register, Aug. 19, 1947; amended to application, Supplemental Register, July 15, 1949, Serial No. 531,811.

by Larson

For Repair and Servicing of Automotive Vehicles.
Claims use since Aug. 5, 1944.

565,157. (Class 105. Transportation and Storage.) Gulf-Canal Lines, Inc., Houston, Tex. Original filed, act of 1946, Principal Register, Apr. 30, 1948; amended to application, Supplemental Register, June 23, 1950, Serial No. 555,941.

GULF-CANAL LINES —Inc— SEA-LANDVAN

For Transportation of Freight by Motor Van.
Claims use since May 8, 1946.

565,158. (Class 104. Communication.) William G. H. Finch, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 7, 1949; amended to application, Supplemental Register, July 31, 1952, Serial No. 571,709.

FINCH WEATHERFAX

For Broadcasting Facsimile Weather Maps.
Claims use since Dec. 14, 1948.

565,159. (Class 106. Material Treatment.) The Kenyon Piece Dyeworks, Inc., Kenyon, R. I. Original filed, act of 1946, Principal Register, Dec. 19, 1950; amended to application, Supplemental Register, Feb. 1, 1952, Serial No. 607,859.

Kenyon

Applicant claims ownership of Registration No. 500,439.
For Dyeing of Woolen, Cotton, Rayon and Nylon Piece Goods.
Claims use since Mar. 13, 1950.

TRADE-MARK REGISTRATIONS RENEWED

38,689. DOUBLETONE. Registered July 29, 1902. Sigmund Ullman Co., New York, N. Y. Re-renewed July 29, 1952, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Printing-Inks. Class 11.

83,623. JUNGHANS. Registered Sept. 26, 1911. Vereinigten Uhrenfabriken von Gebrüder Junghans & Thomas Haller A-G. Re-renewed Sept. 26, 1951, to Gebruder Junghans Aktiengesellschaft, Schramberg, Germany, a corporation organized under the laws of Germany. Clocks, Watches, Clockworks, and Parts Thereof. Class 27.

83,898. ORIOLE. Registered Oct. 24, 1911. Jas. Corner & Sons. Re-renewed Oct. 24, 1951, to James A. Reilly, doing business as Jas. Corner & Sons, Baltimore, Md. Pine Tar. Class 6.

85,675. "OK" WITHIN DIAMOND DESIGN. Registered Mar. 5, 1912. The O. K. Tool Holder Company, Shelton, Conn. Re-renewed Mar. 5, 1952, to The O. K. Tool Company, Inc., Milford, N. H., a corporation of New Hampshire. Cutters and Holders Therefor, for Lathes, Shapers, Planers and Boring Mills and Tool Posts and Dogs for Lathes. Class 23.

86,853. WILGIB. Registered June 4, 1912. Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York. Re-renewed June 4, 1952. Sewing-Machines, Sewing-Machine Parts, and Sewing-Machine Binders, Folders, Etc. Class 23.

87,073. SEC. Registered June 25, 1912. Richard Hudnut, New York, N. Y., a corporation of New York. Re-renewed June 25, 1952. Soap (Solid and Liquid). Class 52.

88,047. ATLAS. Registered Aug. 27, 1912. The Atlas Portland Cement Company, Northampton, Pa. Re-renewed Aug. 27, 1952, to Universal Atlas Cement Company, New York, N. Y., a corporation of Indiana. Bricks. Class 12.

88,341. IGNITOR. Registered Sept. 10, 1912. National Carbon Company, Cleveland, Ohio. Re-renewed Sept. 10, 1952, to Union Carbide and Carbon Corporation, New York, N. Y., a corporation of New York. Dry Cells. Class 21.

290,868. THE TURF. Registered Jan. 19, 1932. Authority Publishing Corp., doing business as The Turf Publishing Co. Renewed Jan. 19, 1952, to Armstrong Daily Sports, Inc., New York, N. Y., a corporation of Delaware. Daily Publication. Class 38.

292,122. LUBRE-KAR. Registered Mar. 1, 1932. Continental Oil Company, Ponca City, Okla., a corporation of Delaware. Renewed Mar. 1, 1952. Lubricating Oil. Class 15.

292,272. THRIFTY. Registered Mar. 8, 1932. Thrifty Drug Company, Ltd., doing business as Thrifty Drug Stores. Renewed Mar. 8, 1952, to Thrifty Drug Stores Co. Inc., Los Angeles, Calif., a corporation of California. Pharmaceutical Preparations—Namely, Peroxide of Hydrogen, Mineral Oil; Cosmetics—Namely, Nail Polish, Etc. Class 51.

292,519. WHYTOL. Registered Mar. 15, 1932. Continental Oil Company, Ponca City, Okla., a corporation of Delaware. Renewed Mar. 15, 1952. Lubricating Oil. Class 15.

292,596. WHYTXOL. Registered Mar. 15, 1932. Continental Oil Company, Ponca City, Okla., a corporation of Delaware. Renewed Mar. 15, 1952. Lubricating Oil. Class 15.

292,597. WULSOL. Registered Mar. 15, 1932. Continental Oil Company, Ponca City, Okla., a corporation of Delaware. Renewed Mar. 15, 1952. Lubricating Oil. Class 15.

293,774. "LA ESTRELLA" ETC. AND REPRESENTATION OF CONTAINER. Registered May 3, 1932. Cuba Industrial y Comercial, S. A., doing business as Villaplana Guerrero y Cia., Habana, Cuba, a company organized under the laws of the Republic of Cuba. Renewed May 3, 1952. Chocolate. Class 46.

293,775. "CHOCOLATE BAGUER" AND REPRESENTATION OF CONTAINER. Registered May 3, 1932. Cuba Industrial y Comercial, S. A., doing business as Hijos de Baguer, Habana, Cuba, a company organized under the laws of the Republic of Cuba. Renewed May 3, 1952. Chocolate. Class 46.

294,109. "A" AND DESIGN. Registered May 17, 1932. The Autocar Company, Ardmore, Pa., a corporation of Pennsylvania. Renewed May 17, 1952. Internal Combustion Engines and Spare Parts of Same. Class 23.

294,157. NESTOIL. Registered May 17, 1932. The Nestle-Lemur Company, New York, N. Y., a corporation of Ohio. Renewed May 17, 1952. Preparation for Treating Hair and for Use in Waving or Curling Hair. Class 51.

294,301. HOSPO=LITE. Registered May 24, 1932. Hospo, Inc. Renewed May 24, 1952, to Hospo Organization, Inc., Chicago, Ill., a corporation of Illinois. Electric Light Fixture Units. Class 21.

294,475. "OLO" ETC. AND DESIGN. Registered May 31, 1932. Beaver Chemical Works. Renewed May 31, 1952, to Olo Soap Company, Inc., Beaver Dam, Wis., a corporation of Wisconsin. Powdered Soap, Paste Soap, and a Powdered General Cleaning Compound. Class 52.

294,487. "ORIOLE" AND REPRESENTATION OF BIRD. Registered May 31, 1932. Hubbs & Corning Company. Renewed May 31, 1952, to Hubbs Corporation, Baltimore, Md., a corporation of Delaware. Wrapping and Toilet Papers. Class 37.

294,506. CLOVER FARM. Registered May 31, 1932. The Grocers & Producers Co., doing business as Clover Farm Stores. Renewed May 31, 1952, to Clover Farm Stores Corporation, Cleveland, Ohio, a corporation of Ohio. Cigars. Class 17.

294,645. REPRESENTATION OF GLOBE ETC. Registered June 7, 1932, to Schering & Glatz, Inc., Bloomfield, N. J. Renewed June 7, 1952, to Warner-Hudnut, Inc., New York, N. Y., a corporation of Delaware. Suppositories Recommended for the Treatment of Inflammatory Processes of the Rectum and of the Adjacent Organs. Class 18.

294,736. ADLA. Registered June 7, 1932. The Adlerika Company. Renewed June 7, 1952, to Chester-Kent, Inc., St. Paul, Minn., a corporation of Minnesota. Stomach and Bowel Medicine. Class 18.

294,806. REPRESENTATION OF TRIANGLE AND BAR DESIGNS. Registered June 7, 1932. American Window Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed June 7, 1952. Sheet Glass. Class 33.

294,827. "SLOAN'S" ETC. AND REPRESENTATION OF LABEL. Registered June 7, 1932. Dr. Earl S. Sloan Incorporated. Renewed June 7, 1952, to Standard Laboratories, Inc., New York, N. Y., a corporation of Delaware. Medicinal Preparations in Liquid Form—Namely, Liniments, Embrocations, Etc. Class 18.

294,984. TY-LAB. Registered June 14, 1932. The W. S. Tyler Company, Cleveland, Ohio, a corporation of Ohio. Renewed June 14, 1952. Classifying Machines for Grading Materials According to Size. Class 26.

294,989. REPRESENTATION OF BAR SINISTER AND SQUARE. Registered June 14, 1932. American Window Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed June 14, 1952. Sheet Glass. Class 33.

294,990. REPRESENTATION OF CROSS, BAR, AND SQUARE. Registered June 14, 1932. American Window Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed June 14, 1952. Sheet Glass. Class 33.

295,128. "RADEMAKER'S HAAGSCHE" ETC. AND DRAWING. Registered June 21, 1932. Maatschappij tot Exploitatie van Rademaker's Koninklijke Cacao & Chocoladefabrieken. Renewed June 21, 1952, to Rademaker's Koninklijke Cacao- en Chocoladefabrieken N. V., The Hague, Holland, a joint-stock company organized under the laws of the kingdom of The Netherlands. Coffee Flavored Candies of the Type Known as Hopjes. Class 46.

295,262. "COLEMAN" AND REPRESENTATION OF SUNBURST. Registered June 28, 1932. The Coleman Lamp and Stove Company. Renewed June 28, 1952, to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas. Gasoline Burning Lamps, Lanterns, Heaters, Mantles, Etc. Class 34.

295,389. "PETITE JIL" ETC. WITHIN TRIANGLE DESIGN. Registered June 28, 1932. Societe Anonyme Etablissements Andre Gillier, Troyes, France, a corporation organized under the laws of the Republic of France. Renewed June 28, 1952. Knitted Sweaters, Pull-Overs, Cardigans, Dresses, Etc. Class 39.

295,807. "M M&R MAGNUS" AND DESIGN. Registered July 12, 1932. Magnus, Mabee & Reynard, Inc., New York, N. Y., a corporation of New York. Renewed July 12, 1952. Aromatic Chemicals—Viz., Acetophenone, Aldehyde, Amyl Acetate, Etc. Class 46.

296,009. WEST COAST WOOLEN MILLS, LTD. Registered July 19, 1932. Washougal Woolen Mills, doing business as West Coast Woolen Mills, Ltd., Washougal, Wash., a corporation of Washington. Renewed July 19, 1952. Woolen Fabrics. Class 42.

296,083. BABY'S OWN. Registered July 19, 1932. William M. Curtis, doing business as Baby's Own Soap Company, Belmont, Mass. Renewed July 19, 1952, to The J. B. Williams Company, Glastonbury, Conn., a corporation of Connecticut. Toilet Soap. Class 52.

296,297. INDUSTROLITE. Registered Aug. 2, 1932. Rinshed-Mason Company, Detroit, Mich., a corporation of Michigan. Renewed Aug. 2, 1952. Ready Mixed Paint, Paint Enamel, Lacquers, Etc. Class 16.

296,298. PER-MAX. Registered Aug. 2, 1932. Rinshed-Mason Company, Detroit, Mich., a corporation of Michigan. Renewed Aug. 2, 1952. Ready Mixed Paint, Paint Enamel, Lacquers, Etc. Class 16.

296,299. "RIMACO" AND DESIGN. Registered Aug. 2, 1932. Rinshed-Mason Company, Detroit, Mich., a corporation of Michigan. Renewed Aug. 2, 1952. Ready Mixed Paint, Paint Enamel, Lacquers, Etc. Class 16.

296,300. RIMALOID. Registered Aug. 2, 1932. Rinshed-Mason Company, Detroit, Mich., a corporation of Michigan. Renewed Aug. 2, 1952. Ready Mixed Paint, Paint Enamel, Lacquers, Etc. Class 16.

296,332. H.H.S. Registered Aug. 2, 1932. Robert S. Headland, doing business as The H.H.S. Products Company, Butler, Pa. Renewed Aug. 2, 1952. Preparation for the Treatment of Hemorrhoids. Class 18.

296,600. FIRE PLACE POINTS. Registered Aug. 16, 1932. J. & J. W. Elsworth Co., New York, N. Y., a corporation of New Jersey. Renewed Aug. 16, 1952. Oysters in Their Natural State. Class 46.

296,628. VAPOFIER. Registered Aug. 16, 1932. Railway Locomotor Company. Renewed Aug. 16, 1952, to Vapofier Corporation, Chicago, Ill., a corporation of Illinois. Oil Burner for Heating Purposes. Class 34.

296,703. L&R. Registered Aug. 16, 1932. The I. T. S. Company, Elyria, Ohio, a corporation of Ohio. Renewed Aug. 16, 1952. Rubber Heels and Rubber Taps. Class 39.

296,737. LOCKEROBE. Registered Aug. 16, 1932. Fred Medart Manufacturing Co. Renewed Aug. 16, 1952, to The Medart Company, St. Louis, Mo., a corporation of Missouri. Metal Clothes and Analogous Lockers. Class 32.

296,971. HORMEZ. Registered Aug. 30, 1932. Louis Philippe, Inc., doing business as Hormez Laboratories, Chicago, Ill. Renewed Aug. 30, 1952, to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware. Compound of Glandular Substances in Combination With Skin Emollients Used as a Face Cream for the Purposes of Beautifying and Stimulating the Skin. Class 51.

297,056. IMPREGNOLE. Registered Aug. 30, 1932. Warwick Chemical Company, West Warwick, R. I. Renewed Aug. 30, 1952, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Substances or Chemicals for Producing a Water Repellent and/or Water-Proof Finish for Textiles. Class 6.

297,075. ACCESSORONE. Registered Aug. 30, 1932. The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan. Renewed Aug. 30, 1952. Medicinal Preparation for Use as a Dietary Supplement. Class 18.

297,206. MARSO. Registered Sept. 6, 1932. R. B. Martie, Inc. Renewed Sept. 6, 1952, to R. B. Martie Company, New York, N. Y., a firm. Powdered Soap Compound for Laundry Use and the Like. Class 52.

297,249. "LIQUID ROUGE" AND DESIGN. Registered Sept. 6, 1932. N. S. Meyer, Inc., New York, N. Y., a corporation of New York. Renewed Sept. 6, 1952. Metal Polish. Class 4.

297,333. WELDOMATIC. Registered Sept. 13, 1932. Westinghouse Electric & Manufacturing Company. Renewed Sept. 13, 1952, to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania. Electric Welding Machines. Class 21.

297,760. "KAYSERS KANTRUN" AND DESIGN. Registered Sept. 27, 1932. Julius Kayser & Co., New York, N. Y., a corporation of New York. Renewed Sept. 27, 1952. Hosiery. Class 39.

297,849. SOLVATONE. Registered Oct. 4, 1932. Carbide and Carbon Chemicals Corporation. Renewed Oct. 4, 1952, to Union Carbide and Carbon Corporation, New York, N. Y., a corporation of New York. Solvents for Oils, Cellulose Ethers and Esters, and Natural or Synthetic Resins. Class 6.

298,232. WAX LAC. Registered Oct. 18, 1932. The Wilbur White Chemical Company, Owego, N. Y. Renewed Oct. 18, 1952, to Franklin Research Company, Philadelphia, Pa., a corporation of Pennsylvania. Emulsion for the Preservation of Fruits and Vegetables. Class 6.

298,405. NATIONAL. Registered Oct. 25, 1932. The National Cash Register Company, Dayton, Ohio, a corporation of Maryland. Renewed Oct. 25, 1952. Paper Slitting and Stacking Machines. Class 23.

298,525. FLEXCO. Registered Nov. 1, 1932. Flexible Steel Lacing Company, Chicago, Ill., a corporation of Illinois. Renewed Nov. 1, 1952. Wrenches, Boring Bits, and Punches. Class 23.

298,558. REPRESENTATION OF FILE WITH RED BAND AT END OF SAME. Registered Nov. 1, 1932. Simonds Saw and Steel Company, Fitchburg, Mass., a corporation of Massachusetts. Renewed Nov. 1, 1952. Files. Class 23.

298,795. TOP NUMBER. Registered Nov. 8, 1932. W. B. Grainger Packing Company. Renewed Nov. 8, 1952, to W. B. Grainger Packing Company, Salinas, Calif., a partnership. Fresh Vegetables. Class 46.

298,811. STYLISH DEBS. Registered Nov. 8, 1932. Melville Shoe Corporation, New York, N. Y., a corporation of New York. Renewed Nov. 8, 1952. Shoes of Leather, Rubber, or Fabric Construction, or a Combination of These Materials. Class 39.

298,842. HEALTHY STEPPERS. Registered Nov. 8, 1932. Melville Shoe Corporation, New York, N. Y., a corporation of New York. Renewed Nov. 8, 1952. Shoes of Leather, Rubber, or Fabric Construction or a Combination of These Materials. Class 39.

298,873. STERILENE. Registered Nov. 8, 1932. American Tissue Mills, Holyoke, Mass., a corporation of Massachusetts. Renewed Nov. 8, 1952. Crepe, Tissue, and Toilet Paper and Paper Napkins and Handkerchiefs. Class 37.

298,911. SERAX. Registered Nov. 15, 1932. Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York. Renewed Nov. 15, 1952. Container Closures. Class 50.

298,920. DCPD. Registered Nov. 15, 1932. Chrysler Corporation, Highland Park, Mich., a corporation of Delaware. Renewed Nov. 15, 1952. Cylinder Blocks, Cylinder Heads, Pistons, Connecting Rods, Etc. Class 23.

299,006. PRINTZESS "TOURISTER". Registered Nov. 15, 1932. The Printz-Biederman Company, Cleveland, Ohio, a corporation of Ohio. Renewed Nov. 15, 1952. Woolen Textile Fabrics in the Piece. Class 42.

299,041. JEAN NATÉ. Registered Nov. 22, 1932. Jean Nathan. Renewed Nov. 22, 1952, to Jean Naté, Inc., New York, N. Y., a corporation of New York. Skin Lotion. Class 51.

299,078. VOL-TEX. Registered Nov. 22, 1932. Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Renewed Nov. 22, 1952. Mixture of Egg Material and Other Substances Suitable for Use as an Ingredient in Making Cakes and Other Food Products. Class 46.

299,089. "GH MICHEL" AND PORTRAIT. Registered Nov. 22, 1932. Dr. G. H. Michel & Company, Cleveland, Ohio, a corporation of Ohio. Renewed Nov. 22, 1952. Preparations for Preparing and Preserving Dead Bodies for Burial—Namely, Embalming Fluids, Mold Preventives, Etc. Class 51.

299,094. "INDIAN-WALK" ETC. AND DRAWING. Registered Nov. 22, 1932. Foot Form Shoe Shops, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 22, 1952. Men's, Women's, and Children's Leather and Fabric Slippers, Moccasins, Shoes, Etc. Class 39.

299,149. NO. 1. Registered Nov. 22, 1932. Smooth-On Manufacturing Company, Jersey City, N. J., a corporation of New Jersey. Renewed Nov. 22, 1952. An Iron Compound in the Form of a Dry Powder Used To Repair Defects and Breaks in and Make Patches on Iron, Etc. Class 12.

299,176. NEUTROLEUM. Registered Nov. 22, 1932. Fritzsche Brothers, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 22, 1952. Aromatic Bodies Designed for the Dual Purpose of Neutralizing the Odor of Petroleum Distillates, Etc. Class 6.

299,191. FLORIORANGE. Registered Nov. 22, 1932. Floriorange Canneries, Inc., Mount Dora, Fla. Renewed Nov. 22, 1952, to Ralph M. Townsend, Fairfax, Va. Canned Orange Juice for Food Purposes. Class 46.

299,238. L'ONGLEX. Registered Nov. 22, 1932. L'Onglex Limited, New York, N. Y. Renewed Nov. 22, 1952, to L'Onglex Limited, Stamford, Conn., a corporation of New York. Liquid Nail Polish, Liquid Nail Polish Remover, Cuticle Remover, Nail White. Class 51.

299,230. JECULIN. Registered Nov. 22, 1932. The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan. Renewed Nov. 22, 1952. Extract of Liver Preparation for Use as a Medicinal Preparation in the Treatment of the Various Forms of Anemia. Class 18.

299,239. INVITATION. Registered Nov. 22, 1932. Jean Patou, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 22, 1952. Perfumes. Class 51.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

32,563. THIOCOL. Registered Feb. 28, 1899. F. Hoffmann-La Roche & Cie, Basel, Switzerland. Remedy for Phthisis. Class 18 (formerly Class 6). Amended as follows: In the original certificate, line 8; in the headings to the drawing and statement; in lines 5 and 6, column 1, and line 7, column 2, of the statement; and in lines 4 and 5 of the first renewal certificate, and in the second renewal certificate, in the headings to the drawing and statement; in lines 5 and 6, column 1, and line 7, column 2, of the statement, "remedy for phthisis" is deleted and *medicinal preparation for the temporary relief of coughs due to respiratory conditions* is inserted in lieu thereof.

80,717. THIOCOL. Registered Jan. 24, 1911. The Hoffmann-La Roche Chemical Works, New York, N. Y. Potassium Guiacol-Sulfonate, a Remedy for Phthisis. Class 18 (formerly Class 6). Amended as follows: In the original certificate, line 8; in the headings to the drawing and statement; in line 10, column 1, of the statement; and in line 5 of the first renewal certificate; and in the second renewal certificate, in the headings to the drawing and statement; in line 10, column 1, of the statement, "remedy for phthisis" is deleted and *medicinal preparation for the temporary relief of coughs due to respiratory conditions* is inserted in lieu thereof.

REISSUES

OCTOBER 7, 1952

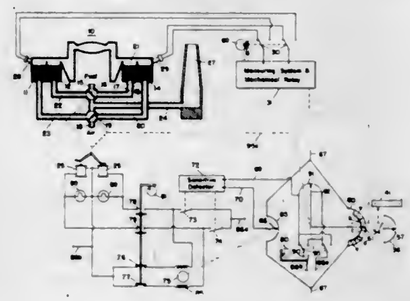
23,561

AUTOMATIC CONTROL SYSTEM USING NONLINEAR RESPONSIVE ELEMENTS

Elwood T. Davis, Havertown, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania

Original No. 2,531,200, dated November 21, 1950, Serial No. 558,098, October 10, 1944. Application for reissue June 13, 1952, Serial No. 293,485

12 Claims. (Cl. 236—15)



1. In combination, a condition-responsive means whose output varies non-linearly with respect to changes in the magnitude of a condition, a balanceable network including a variable impedance, circuit connections across said impedance for deriving from said network an output voltage determined jointly by the magnitude of said variable impedance and by a current whose magnitude is controlled by said impedance, a second network traversed by a constant current and including a variable impedance, and means for concurrently balancing the output of one network against the output of said condition-responsive means and for varying the impedance in the other of said networks whereby the output of said other network varies linearly with respect to changes in the magnitude of said condition.

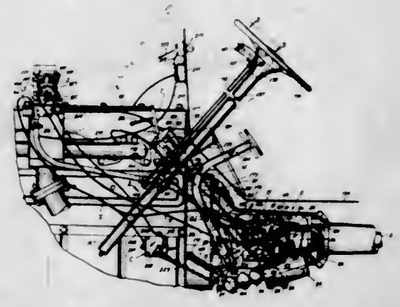
23,562

AUTOMOTIVE POWER DRIVE CONTROL SYSTEM AND MECHANISM

Glenn T. Randol, Mountain Lake Park, Md.

Original No. 2,434,717, dated January 20, 1948, Serial No. 422,332, December 10, 1941. Application for reissue January 17, 1949, Serial No. 71,381

103 Claims. (Cl. 192—.073)



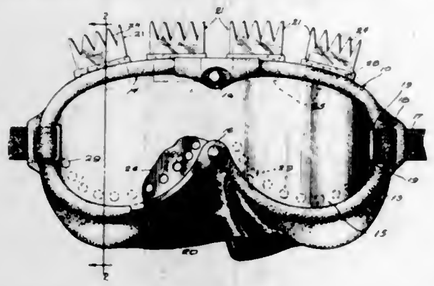
3. In a motor vehicle provided with an accelerator mechanism, a [main] clutch and a change-speed gearing, means comprising a single power means having a movable element *operably* connected for disengaging the clutch and for subsequently by successive movements shifting said gearing alternately between high speed [ratio] and second speed [ratio], control means for *operating* said power means including said accelerator mechanism, said means causing the power means to disengage the clutch and place the gearing in high speed [ratio] when the accelerator mechanism is in released condition and for causing the power means to disengage the clutch and shift the gearing from high speed [ratio] to second speed [ratio] when the accelerator mechanism is fully depressed, and means operable by the accelerator mechanism and so associated with the power means as to cause the power means to control the rate of re-engagement of the clutch.

PATENTS

GRANTED OCTOBER 7, 1952

GENERAL AND MECHANICAL

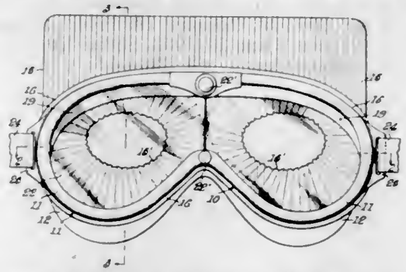
2,612,639
CLOSED GOGGLES STRUCTURE
William R. Christensen, Newton Highlands, and Chester E. Cross, East Sandwich, Mass.
Application June 8, 1949, Serial No. 97,867
3 Claims. (Cl. 2—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an anti-fogging and anti-frosting goggles having a lens supported in a frame which has a flexible face contacting part cooperating with the lens to define a sealed space around the eyes of a wearer the combination comprising, one or more condensers along the top of said frame, said condensers each comprising a generally box-like housing having an undulating top wall, partitioning means to divide said housing into one or more inlet and one or more outlet passages; said passages communicating with said sealed space at their lower ends and the top edge of said partitioning means engaging against the lowermost portions of the undulations in said top wall so that communication between the upper ends of the passages in said housing is confined to the channels formed between undulations on the inner side of said top wall; and air deflecting means cooperating with the partitioning means to isolate the lower ends of the inlet and outlet passages from direct communication with each other and also cooperating with the lens to promote convectional flow of air from the space in the goggles containing air warmed by contact with the wearer's face through the upper end of the condenser and along the inner side of said lens back to the said warm air space in the goggles at a point opposite the condensers.

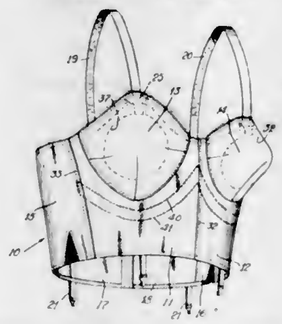
2,612,640
ANTIFOGGING AND ANTIFROSTING GOGGLES
Edward D. Palmes, New York, N .Y.
Application September 2, 1949, Serial No. 113,890
8 Claims. (Cl. 2—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A goggles frame for holding a lens comprising a body member including a part on the forward side thereof for holding a lens in substantially sealed relation thereto and a flexible part on the rear side thereof to contact and form a seal with the face of a wearer so that a confined space is isolated behind the lens when the goggles are being worn, and structure for dissipating heat from the confined space including means forming frusto-conical baffles of sheet material on each side of the bridge of said frame behind the lens and located to center the same



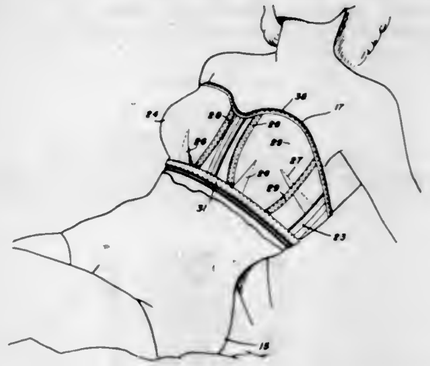
before the eyes of a wearer, said baffles having sight openings similarly centered, and a fin extending outwardly of the frame along at least the top side thereof, said fin being in thermal conducting relation with the baffle forming means.

2,612,641
BRASSIÈRE CONSTRUCTION
Sol H. Pion, Jamaica, N. Y.
Application April 25, 1950, Serial No. 157,963
1 Claim. (Cl. 2—42)



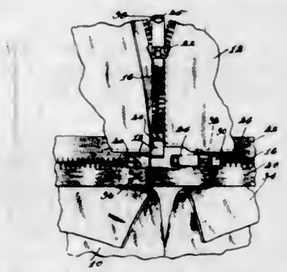
A brassière of the character described, having an outer front panel with bust pockets formed therein, a pair of loops on the inside of said outer front panel immediately above said bust pockets, and an inner front panel with bust openings formed therein in registration with said bust pockets, said panels being attached to each other along their respective side and bottom edges and being free from each other along their respective top edges and between their said bust openings and bust pockets, said brassière being provided with a pair of shoulder straps which are permanently fastened to the inner front panel, immediately above the bust openings formed therein, and which slideably extend through the loops which are provided above the bust pockets of the outer front panel for adjustable connection therewith.

2,612,642
COMBINATION GARMENT AND BRASSIÈRE
Hyman Robins, Brooklyn, N. Y.
Application November 24, 1950, Serial No. 197,431
3 Claims. (Cl. 2—42)



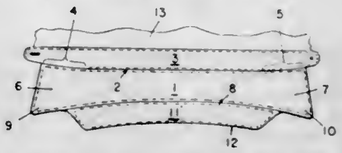
2. A combination garment including a brassière comprising a flexible fabric wall having a lower edge and said wall having cups therein, resilient stays secured to side portions of said cups, and a resilient tape secured in stretched condition to the entire lower edge of said fabric wall so as to be disposed below said cups and connected to the lower end portions of said stays whereby when stretched the tape will spread the lower portions of the stays in proportion to the degree of stretching and when the tape is passed about the body of the wearer will force the cups including the stays over the bust to proportionately bow the stays and accordingly alter the size of the cups to accommodate varying sizes of breasts, an outer garment secured at its upper edge only to the upper portion of said brassière fabric wall whereby to freely and naturally accommodate itself to the conformation of the cups of the brassière, side and rear portions for said outer garment, and fastening means for the rear portions of said outer garment adapted to be fastened independently of and subsequent to the tape.

2,612,643
GARMENT CLOSURE
Fernande Perry, Leesburg, Fla.
Application November 10, 1948, Serial No. 59,387
9 Claims. (Cl. 2—70)



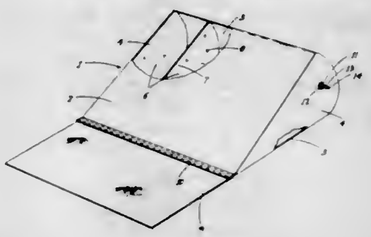
1. A two piece garment including top and bottom portions, tapes secured to the lower horizontal edge of said top portion and the upper horizontal edge of said bottom portion, a horizontally positioned separable fastener secured to the adjacent tape edges, a vertical side opening formed in said top portion having tapes secured to opposing opening edges, a vertically positioned separable fastener secured to companion vertical opening tape edges, a separator box positioned at the bottom of said vertically positioned separable fastener, a second separator box positioned at an end of said horizontally positioned separable fastener adjacent and at right angles to said first separator box, fastener closing members for each of said separable fasteners, an end edge of said upper horizontal tape is secured to the prong of said vertically positioned separator box and an edge of one of said vertical tapes engaged by an adjacent edge of said vertically positioned separator box whereby said top and bottom garment portions are maintained in relative position.

2,612,644
SHIRT COLLAR
Joseph W. Less, Clinton, Iowa
Application October 27, 1949, Serial No. 123,905
5 Claims. (Cl. 2—131)



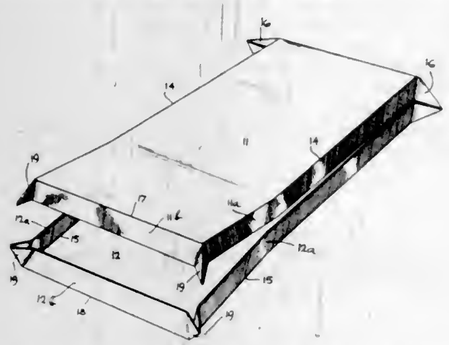
5. In a shirt collar, assembly of the type described, the combination of a neckband, a collar band terminating in a wing at each end and joining said neckband along a substantially straight fold line, and a continuous flap formed integrally with said collar band and arranged to fold upwardly, to underlie said collar band, about an arcuate fold line curving upwardly from the wings of said collar band and extending for a major portion of the length of said collar band, said flap being centered relative to the length of said collar band and serving to tension said collar band along said arcuate fold line, when the collar is buttoned, to urge the points of the wings of the collar inwardly toward the wearer.

2,612,645
RECLINING AIR CUSHION
Gus Leslie Boland, Modesto, Calif.
Application September 13, 1949, Serial No. 115,386
2 Claims. (Cl. 5—341)



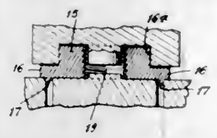
1. A reclining air cushion comprising an air tight envelope of flexible material and forwardly tapering substantially wedge shape, said envelope including a top panel, a bottom panel, side panels, and a back wall; and a plurality of laterally spaced, upstanding wedge shaped partitions secured in the envelope and extending from back to front of the envelope and separating the same internally into a plurality of separate compartments extending from back to front of the envelope, there being restricted air passage means between adjacent compartments.

2,612,646
PROTECTIVE COVERING FOR CUSHIONS, MATTRESSES, AND THE LIKE
Leon Sussman, New York, N. Y.
Application October 27, 1949, Serial No. 123,817
3 Claims. (Cl. 5—354)



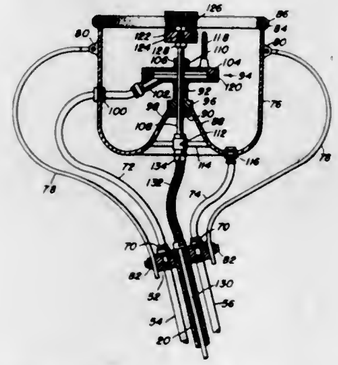
3. A protective covering formed from a unitary blank of material, said covering having a top panel, a bottom panel, and a rear panel integral with said top and bottom panels, side panels defined by longitudinal marginal sections of said top and bottom panels, rear triangular tab sections stitched transversely with respect to the planes of the top and bottom panels, said tab sections being integral with and interconnecting said rear and side panels, a fixed forward portion of the contiguous edges of said longitudinal marginal sections being normally separated, the remaining portion of said contiguous edges being joined by stitching, a front panel comprising forward transverse marginal sections of the top and bottom panels, front triangular tab sections stitched transversely with respect to the planes of the top and bottom panels, said front tab sections being integral with and interconnecting said transverse and longitudinal marginal sections, the adjacent free edges of said forward transverse marginal sections being normally separated and together with said separated forward portion of the contiguous edges of said longitudinal marginal sections defining an opening into said covering, and means for closing said opening.

2,612,647
METHOD OF FORMING WELDING PROJECTIONS ON NUTS
Earl E. Howe, Chicago, Ill.
Application June 2, 1950, Serial No. 165,777
1 Claim. (Cl. 10—86)



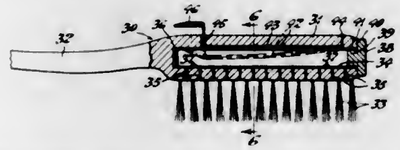
The method of punch forming a weld nut by a single application of pressure, which includes providing a generally rectangular nut body having defined corners, a central aperture, and parallel plane end faces, supporting said nut body, except at localized areas under said corners, on a laterally unrestricted supporting surface, directing localized pressure solely against the corners of the nut body in a direction parallel with the axis of the nut and against the unsupported areas of the corners of the nut body, while permitting longitudinal flow of part of the metal at such unsupported areas and simultaneously permitting unrestricted lateral flow of the metal displaced by the pressure against the nut corners, and thereby, by a single application of pressure, forming laterally extended ears and welding projections unitary therewith, with the welding projections extending beyond the plane of the end of the nut body.

2,612,648
CEILING WASHER
Silas P. Lagant, Pocahontas, Ill.
Application November 19, 1947, Serial No. 787,006
3 Claims. (Cl. 15—50)



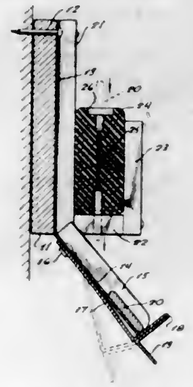
2. A ceiling washer comprising a carriage, an arm adjustably mounted on said carriage, resilient rods secured adjacent the end of said arm, a bucket mounted on said rods, a bearing mounted axially in the bottom of the bucket, a shaft within said bucket rotatably mounted in said bearing, a brush fixed on the end of the shaft, said brush being adjacent the mouth of the bucket, a hollow portion in said bearing, a collar fixed on said shaft, an upper bearing member secured to said collar and closing said hollow portion, nozzles mounted on said upper bearing member and rotating with said brush, said nozzles being directed to eject fluid along said brush, a tube supplying fluid under pressure into said hollow portion.

2,612,649
LIQUID DISPENSING BRUSH AND VALVE STRUCTURE THEREFOR
Agnes F. Banks, Los Angeles, Calif.
Application November 22, 1948, Serial No. 61,471
2 Claims. (Cl. 15—136)



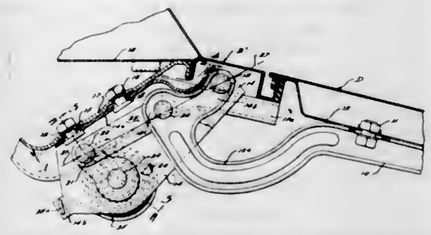
1. A brush, comprising: a brush body having a head at one end and a handle at the other end, said head having a bore therein and passage means leading from said bore to the exterior of the head; bristles on said head; a flexible refill cartridge disposed in said bore and having aperture means communicating with said passage means, said cartridge being adapted to contain a liquid; and having an open end closed by a cap, said cap being disposed exteriorly of said head and adapted to rotate said cartridge to a first position to align its aperture means with said passage means and to a second position to disalign said aperture means and passage means; and manually operable flexible means on said head engageable with said cartridge and adapted to compress the same to force liquid therefrom and through said passage means onto said bristles.

2,612,650
SOAP CONTAINER
John F. Murphy, Nashua, N. H.
Application April 11, 1950, Serial No. 155,309
7 Claims. (Cl. 15—244)



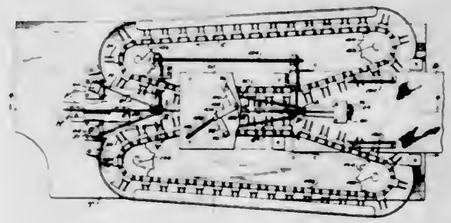
1. A soap container of the character described comprising a support, a sponge secured in said support, said sponge being formed with a vertical slot extending completely therethrough through which a bar of soap may be passed, and an inclined tray carried by said support below said sponge and arranged to receive said bar.

2,612,651
DECK LID HINGE
John H. Roethel, Detroit, Mich., assignor to Marvel Equipment Corporation, Detroit, Mich., a corporation of Michigan
Application January 16, 1947, Serial No. 722,439
5 Claims. (Cl. 16—135)



1. A hinge device for a swinging lid or closure adapted to be raised and lowered to open and close an opening, comprising a fixed support, a hinge member pivoted to the support and adapted to be secured to the lid or closure, a crank arm pivoted to the support at a point spaced from the pivot of said hinge member, a wound spring having one end connected to the crank arm and its other end connected to the support, and a control link pivoted to the outer end of the crank arm and also pivoted to said hinge member at a point spaced from the axis of swinging thereof, said control link being disposed in the closed position of the lid entirely above a line passing through the axes of swinging of the crank arm and hinge member, said crank arm being adapted to swing in a direction opposite to the direction of swinging of the hinge member during raising and lowering of the lid, and said spring acting to counterbalance the weight of said lid during raising and lowering movement thereof.

2,612,652
APPARATUS FOR BONING AND SLITTING FISH
Ralph Martin Berglund, South Bellingham, Wash., assignor, by mesne assignments, to Pacific Laboratories, Inc., Bellingham, Wash., a corporation of Washington
Application June 24, 1947, Serial No. 756,669
17 Claims. (Cl. 17—4)

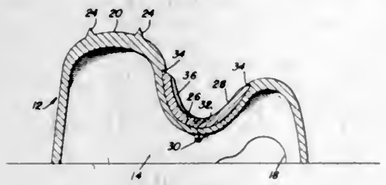


1. Apparatus for removing the backbone from fish which may vary in size, comprising a frame, an elongated rail mounted on said frame having a fish receiving end and a fish discharging end, said rail having a top horizontal surface for engaging beneath the lower side of the backbone of a ventrally slit fish to align the backbone in parallel relation on the top of said rail, a rotary backbone removing implement mounted on said frame at said discharge end and in alignment with said rail, said implement including cutting surfaces for separating the backbone from the flesh of the fish positioned in the longitudinal path of movement of the backbone of the fish along said rail and slightly above the top surfaces thereof, a rotary knife mounted on said frame above said rail adjacent said discharge end and spaced from said top surface of said rail a proper distance to slit the fish dorsally throughout its entire length down to the top side of the backbone of the fish, means on said frame for rotating said implement and said knife, and means mounted on said frame for conveying the ventrally slit fish along said rail and past said knife and said implement.

2,612,653
OYSTER CHOCK
Lawrence M. Labat, New Orleans, La.
Application August 29, 1951, Serial No. 244,147
1 Claim. (Cl. 17—9)

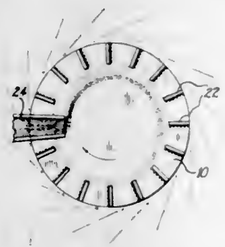
An oyster chock comprising a block-shaped body having an upper surface provided with an elongated open-ended recess of a substantially U-shaped cross-section, portions of said body at upper longitudinal edges of said recess being undercut and affording a pair of parallel inverted keeper grooves, an elongated open-ended insert of a substantially U-shaped cross-section removably positioned in said recess, upper longitudinal edge portions of said insert being dis-

posed in said keeper grooves, a fastening element securing said insert to said body, and a plurality of spaced parallel ribs extending on the inner



surface of said insert from points adjacent the bottom thereof to one of its upper longitudinal edges.

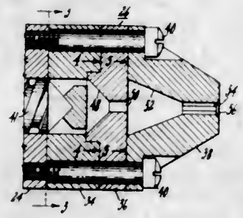
2,612,654
FIBER SPINNING METHOD AND APPARATUS
David E. O'Connor, Needham, Mass.
Application October 2, 1948, Serial No. 52,545
11 Claims. (Cl. 18—2.6)



3. In apparatus for producing fibers from viscous material, the combination comprising a circular-shaped spinner member mounted for rotation about its axis at relatively high speed in a substantially horizontal plane, said spinner member having a substantially flat upper surface provided with a plurality of passageways defined by a plurality of upstanding walls positioned in spaced relation about the peripheral edge of said surface and extending inwardly therefrom a portion only of the distance to the axis of the spinner member, and a delivery device constructed and arranged to deposit said viscous material upon the surface of said spinner member between its axis and the inner ends of said walls.

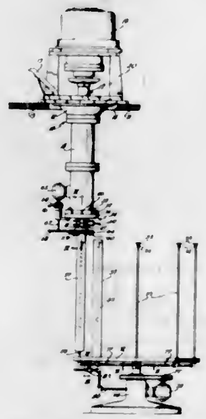
2,612,655
METHOD AND APPARATUS FOR EXTRUDING RUBBERLIKE MATERIAL
Thomas O. Mathues, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 4, 1948, Serial No. 58,208
3 Claims. (Cl. 18—12)

1. Apparatus for extruding rubber-like crumb stock, comprising in combination; a tubular having a pressure feed screw, a tandem die adapted to receive the crumb stock under pressure from said feed device, said die consisting of at least two portions, the first of which includes at least three orifices of relatively small size radially spaced, said orifices being disposed circumferentially and substantially tangent to a circle defined by the outer diameter of the screw, and the second portion of which consists of a tapered inlet having a throat opening connecting with the outlets of said orifices in the first portion and tapering down to a single opening therethrough which is substantially centrally located and out of line with respect to any of the orifices in the first portion and which has a cross sectional area at least 5% less than the total cross sectional area of



the orifices in the said first portion, whereby stock passing through the orifices in the first portion is broken up into small streams which are folded and worked into a single stream which passes through the final orifice.

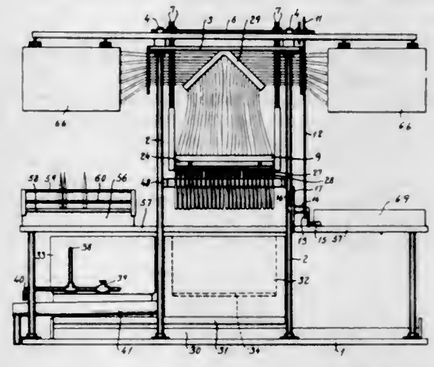
2,612,656
METHOD OF AND APPARATUS FOR MAKING PLASTIC TUBING
George Albert Lyon, Detroit, Mich.
Application August 13, 1949, Serial No. 110,091
18 Claims. (Cl. 18—14)



4. In plastic tubing forming apparatus, means for extruding material in thermoplastic form including an extrusion die having an elongated cylindrical extrusion passage, and means for directing streams of coolant against the die for cooling the discharge end portion of the extrusion die to substantially set the tubing prior to leaving the extrusion die.

2,612,657
METHOD AND APPARATUS FOR MAKING CANDLES
Poul Mandrup Poulsen, Copenhagen, Denmark
Application October 25, 1949, Serial No. 123,427
In Sweden January 22, 1949
7 Claims. (Cl. 18—24)

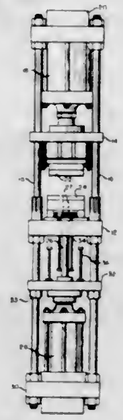
1. A machine for the making of candles comprising a wick holder having means for the attachment of a large number of continuous wick threads in positions to depend freely from said wick holder in mutually spaced relationship and in a length substantially corresponding to the desired length of a candle, an upwardly open vessel for receiving a bath of candle material, and upwardly open vessel for receiving a cooling liquid, means for horizontally displacing said vessels and said holder relative to one another to bring said holder in position above one or the other of said vessels, means for vertically moving said holder up and down relative to said vessels to immerse and withdraw said wicks into and from the respective liquids therein, a horizontally disposed rectangular first frame open at one end and surrounding the working zone of the machine as defined by the ascending and descending movement of said wick holder, a second frame likewise open at one end and mounted for rotation about a horizontal axis between a substantially vertical position and a substantially horizontal position in which the open end thereof



registers with the open end of said first frame, a wick anchoring device including a plurality of mutually parallel elongated wick engaging members constructed to engage a row of wicks from one side and having means associated therewith for clamping the wicks thus engaged, said wick anchoring device being normally seated in said second frame and being longitudinally slidable therefrom, in the substantially horizontal position thereof, into said first frame to bring said wick engaging members in position between rows of wicks depending from said wick holder and being thereupon transversely slidable to engage such rows of wicks from the side whereby when the wicks have been thus engaged and then clamped, the wick holder upon loosening of the wick threads relative thereto may be moved upwards to pull out fresh lengths of wick thread.

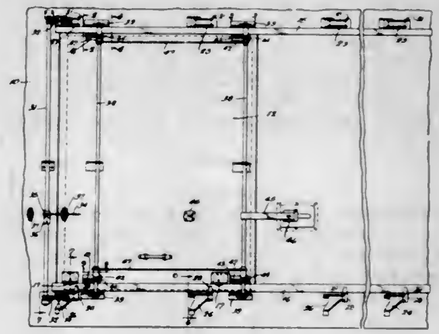
2,612,658
TRANSFER MOLDING PRESS
Gordon B. Sayre, Boonton, N. J., assignor to Boonton Molding Company, Boonton, N. J., a corporation of New Jersey
Application May 14, 1947, Serial No. 748,065
26 Claims. (Cl. 18—30)

24. A press for transfer-molding thermosetting plastics, said press comprising a downwardly directed clamp cylinder at the top of the press, an upwardly directed transfer cylinder at the bottom of the press, tie rods between said cylinders, a movable platen slidable on said tie rods and moved by the piston of said clamp cylinder, a stationary platen mounted on said tie rods beneath said movable platen, an upwardly pointed transfer plunger moved by said transfer cylinder, a cover die mounted on the movable platen, an ejector die mounted on the stationary platen, a crosshead between the transfer plunger and the transfer cylinder, and push rods depending from the ejector die through the stationary



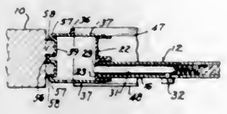
platen to a point suitable for operation by the crosshead.

2,612,659
DOOR FOR REFRIGERATOR CARS
Arthur F. O'Connor, Chicago, Ill., assignor to Union Asbestos & Rubber Company, a corporation of Illinois
Application June 10, 1946, Serial No. 675,585
1 Claim. (Cl. 20—23)



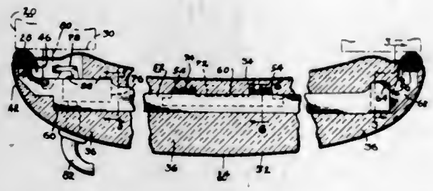
A door for a refrigerator car having a relatively thick insulated wall formed with a door opening, comprising an insulated door panel of substantially the same thickness as the car wall adapted to fit into the opening, elongated tracks extending along the car wall above and below the door opening, means mounting the door on the tracks for sliding movement therealong into and out of register with the door opening, a plurality of horizontally spaced levers pivoted on vertical axes on the car supporting the tracks at their outer ends for swinging movement toward and away from the car wall and being of a length slightly greater than the thickness of the wall and the door panel, a vertical shaft rotatably mounted on a vertical axis adjacent one end of the tracks having laterally projecting crank arms thereon shorter than the levers, links connecting the cranks to points intermediate the lengths of upper and lower levers respectively, an operating handle on the shaft, and means forming a lost motion connection between the shaft and the operating handle.

2,612,660
WINDOW CONSTRUCTION
Stephen M. Casey, Oakland, Calif.
Application May 15, 1950, Serial No. 162,126
2 Claims. (Cl. 20—36)



1. A vertically-slidable, plural window sash construction for installation in an opening in a door, a door side frame member defining said opening of said door, at least two moldings on said door side frame member having a groove therebetween, said window construction comprising, a pair of substantially U-shaped channel mounting members disposed on opposite sides of said opening, each of said channel members having its open side facing toward the center of the door and having at least three ridges projecting upwardly from its opposite side, the intermediate ridge fitting within said groove, a pair of sash side guide members, each of said sash guide members being slidably received in one of said channel members, each of said sash guide members being shaped as a double channel with the open sides facing toward the center of the door, resilient means biasing adjacent channel mounting members and sash guide members apart, means restraining said sash guide members within the openings of said channel mounting members, and a pair of vertically slidable window sashes, one of said sashes having its side edges received within one of the channels of said guide members and the other said side having its side edges received within the other of said channels, said sashes being slidable parallel to each other.

2,612,661
REFRIGERATOR DOOR CONSTRUCTION
John A. Semple, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application July 16, 1948, Serial No. 39,040
3 Claims. (Cl. 20—38)



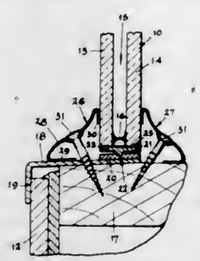
2. In a refrigerator door, a rectangular door casing, a pair of crossed tie members secured at opposite ends thereof to and respectively adjacent diagonally opposite corners of said casing, a channel cross member secured at opposite ends thereof respectively to opposite side edges of said casing in spaced relation to the intersection of said crossed tie members, and a channel reinforcement complementary to and received in said channel cross member secured to said crossed tie members.

2,612,662
WINDOW STRUCTURE
William M. Pfaff, Braddock, Pa., assignor to Standard Aluminum Products Company, Braddock, Pa., a corporation of Pennsylvania
Application February 25, 1950, Serial No. 146,249
1 Claim. (Cl. 20—55)



A window structure comprising a main casement frame installed alongside a fixed closure means of extended area, an auxiliary sash frame hinged at one edge to the main frame, by a pair of hinge leaves which extend perpendicularly from the planes of the frames and are pivotally connected at their outer ends, and are of such length that when the auxiliary sash frame is swung from a normal position of parallelism with respect to the main frame, the adjacent hinged edges of the frames become separated for a distance sufficient to permit an operator to extend his arm to the exterior of the window, and a storm window sash hingedly connected to the auxiliary sash frame at the free edge of the auxiliary sash frame and being movable thereon, to form a double-paned window structure.

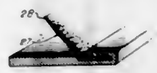
2,612,663
GLASS SETTING DEVICE
John P. Pearse, Swanton, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application February 6, 1947, Serial No. 726,863
4 Claims. (Cl. 20—56.5)



1. In a mounting for multiple glass sheet glazing units, a setting block comprising a bottom member and a top member carried upon said bottom member and adapted to support the glazing unit on edge in a vertical position, the upper surface of said bottom member having a longitudinally extending groove therein while the lower surface of said top member has a longitudinally extending tongue loosely received within said groove for rocking movement transversely thereof, said tongue being longitudinally convex to also provide for longitudinal rocking of the top member with respect to the bottom member.

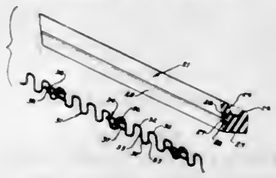
2,612,664
WEATHER STRIPPING FOR STORM DOORS
Henry W. Sidden, Richmond Hill, N. Y.
Application August 16, 1950, Serial No. 179,690
4 Claims. (Cl. 20—69)

1. Weatherstripping of the character described, comprising a substantially flat metal bar, a channel formed in said bar longitudinally thereof, a flap formed on said bar along one side edge of said channel and extending across said channel to the opposite side edge thereof, a shoulder formed on said bar along said opposite side edge of the channel, and a rubber strip having one side



edge secured in said channel under said flap, and having its opposite side edge projecting outwardly from said channel, said rubber strip being pinched between the flap and the shoulder to hold its outwardly projecting side edge at an acute angle relative to the bar.

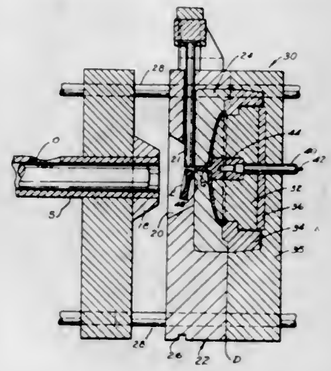
2,612,665
COMBINED WEATHER STRIP AND RETAINER
Edwin D. Scott, Plymouth, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application September 19, 1947, Serial No. 775,127
2 Claims. (Cl. 20—69)



1. A weatherstrip assembly comprising, in combination, an elongated rubber sealing strip having a flat face, said sealing strip having an elongated opening formed therein generally parallel to but spaced from its aforesaid flat face, an elongated corrugated wire element received within said opening, said corrugations comprising right- and left-handed loops connected by straight wire portions rectangularly related to the longitudinal axis of the element, and a plurality of fastening elements carried by said wire element at longitudinally spaced points, each of said fastening elements having a generally U-shaped base portion arranged to be slipped over adjacent loops and straight portions of said wire element and resiliently held thereon and each also having a yieldable attaching portion projecting from said base portion substantially at right angles thereto and extending outwardly from the flat face of said sealing strip.

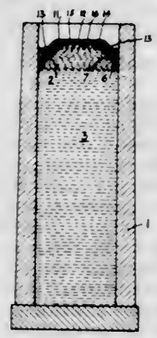
2,612,666
DIE CASTING APPARATUS
John J. McGarigal, Batavia, N. Y., assignor to Doehler-Jarvis Corporation, New York, N. Y., a corporation of Michigan
Application March 5, 1946, Serial No. 652,105
7 Claims. (Cl. 22—68)

2. A casting machine for rapidly repeated casting cycles, said machine comprising a horizontal stationary shot sleeve having an open end, said sleeve having an opening to receive poured molding material in liquid state, a plunger movable in said sleeve past said opening, said sleeve having a diameter at least as great as that of the plunger all the way to the open end of the sleeve, an adapter plate movable toward or away from the end of the sleeve in the direction of the axis of the sleeve, a die having a cover die portion carried on the opposite side of the adapter plate, and having an ejector die portion, said die having a mold cavity and an enclosed horizontal gate through the cover die portion, said adapter plate having a gate passage forming a continuation of the gate in the cover die, said gate being located above the bottom of the sleeve a distance sufficient to prevent any of the desired charge



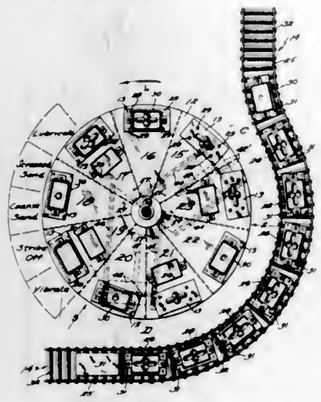
of liquid molding material from flowing into the gate and cavity before the plunger is operated, and knock-off means mounted on the adapter plate for movement therewith, said knock-off means being movable transversely of the axis of the sleeve to break from the gate a solidified slug of excess molding material formed by the end of the sleeve.

2,612,667
INGOT CASTING MOLD
John Gombosh, Pittsburgh, Pa.
Application July 13, 1948, Serial No. 38,470
9 Claims. (Cl. 22—147)



1. In an ingot casting mold, a member defining the upper end of a casting cavity in the mold and having a frictional fit with the sides of the mold so that it may move vertically with respect thereto, said member having an opening in the top thereof and parts cooperating with the sides of the mold to provide a trough extending around said opening into which metal may overflow from said opening, and a cover for said opening for defining a space thereabove which is separated from the metal below said member and into which molten material may be poured to prevent premature hardening of the cast metal below said member.

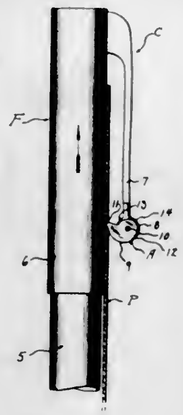
2,612,668
METHOD FOR MAKING AND ASSEMBLING SAND MOLDS
Clifford N. Hutchison, Stratford, Conn., assignor to The Belknap Mfg. Co., Bridgeport, Conn., a corporation of Connecticut
Application October 20, 1948, Serial No. 55,443
5 Claims. (Cl. 22—197)



5. The method of preparing a succession of various sand molds for casting articles of differing shapes with the aid of patterns carried by a conveyor along a closed path serially past a way station and past an assembly station, which includes the steps of, placing upon the conveyor a series of patterns, placing upon individual patterns of said series the drag flask of a pair of mating drag and cope flasks, filling said drag flasks with sand as a first operation whereby to form in the individual drag flasks the drag section of a pair of mating mold sections, sequentially removing the drag sections from their patterns at said way station, advancing said removed drag sections to said assembly station by a route in detour relation to said path, advancing empty patterns farther along said path past said assembly station, placing respectively upon said farther advanced empty patterns the cope flasks of said pair of mating flasks, filling said cope flasks with sand as a second operation whereby to form in the individual cope flasks the cope section of said pair of mating mold sections, advancing said cope sections past said way station along said path to said assembly station, removing said cope sections from their patterns successively at said assembly station in the same sequence as the mating drag sections were removed previously from their respective patterns at said way station, and sequentially assembling said removed cope sections respectively with their mating drag sections previously removed at said way stations, whereby each drag section made in said first operation becomes assembled at said assembly station with its mating cope section made in said second operation while an additional drag section is being removed simultaneously from its pattern at said way station.

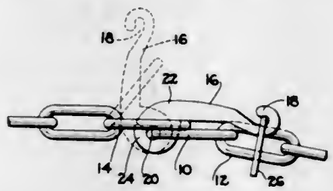
2,612,669
ANTILOSS DEVICE
Gilbert M. Brueckner, Milwaukee, Wis.
Application August 23, 1948, Serial No. 45,605
1 Claim. (Cl. 24—11)

The combination with a body having a spring clip with its lower free end normally urged toward said body, a hollow head on the lower end of said clip, of an anti-loss attachment for the body including a cam pivotally mounted for turning movement in said hollow head and having its outer edge protruding beyond the inner



face of the clip and head at all times and projecting toward said body, and a shoulder on said cam for engaging said head to limit the outward swinging movement of the cam.

2,612,670
TIRE CHAIN TIGHTENER
Henry St. Pierre, Worcester, Mass.
Application October 17, 1949, Serial No. 121,873
5 Claims. (Cl. 24—69)

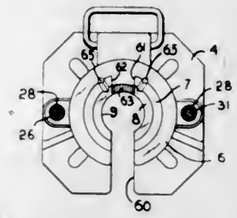


1. A device of the class described comprising a hook, means to attach a chain link thereto at a point remote from the hook bight, a chain link secured by said means, a chain connected to the link, an apertured closed slider on a link of the chain, said hook bight being engageable and held by the slider, the slider aperture being elongated and having a wide part to receive the hook and a narrow part preventing escape of the slider from the link on which it is placed, the links each having a width slightly less than the length of the aperture.

2,612,671
TUBING SPIDER
John R. Martin, Houston, Tex.
Application March 13, 1947, Serial No. 734,424
2 Claims. (Cl. 24—263)

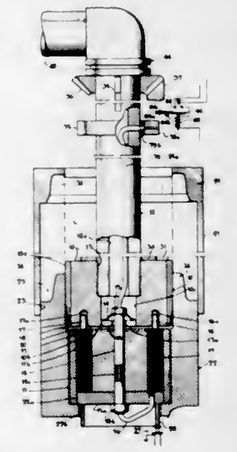
1. In a tubing spider for wells, the combination of, a spider body having a downwardly and inwardly tapered opening therethrough forming a bowl, a lateral slot through the side wall of said body and said bowl, a key of substantially the width of said slot extending inwardly into said opening and tapered downwardly and inwardly

substantially concentrically with said bowl, a bushing tapered inwardly and downwardly to fit within said bowl and inwardly of the same dimensions and taper as said key, a lateral slot through the side wall of said bushing of a width to snugly receive said key therein when said bushing is fitted within said bowl, a non-circular cross-sec-



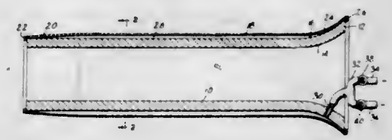
tion keyway means in said bushing and bowl on either side of said bushing slot and adjacent thereto, and a non-circular key means of substantially the cross-section of said keyway means to fit within each keyway means to prevent said bushing from becoming sprung when supporting substantial loads extending through said opening and bearing upon said bushing.

2,612,672
APPARATUS FOR FORMING AND LINING PIPES
Ray C. Rifenburg, Brooklyn, N. Y., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Application May 31, 1951, Serial No. 229,137
17 Claims. (Cl. 25—36)



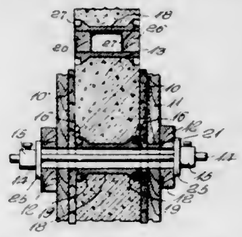
5. A conduit-forming apparatus including in combination: a mold, a shaft longitudinally and rotatably movable in said mold, a bore mandrel, a trowel mandrel, said mandrels being drivably associated with said shaft for movement therewith, said mandrels having conforming inner end faces, said shaft having a passage therethrough in communication with an orifice in one of said end faces, such passage being closable in response to engagement of said inner end faces, and means for mounting said mandrels for movement toward and away from one another for controlling a flow of fluid through such orifice.

2,612,673
EXPANSIBLE MOLDING CORE
Karl P. Billner, Philadelphia, Pa., assignor to Vacuum Concrete, Inc., a corporation of Pennsylvania
Application March 9, 1949, Serial No. 80,478
5 Claims. (Cl. 25—128)



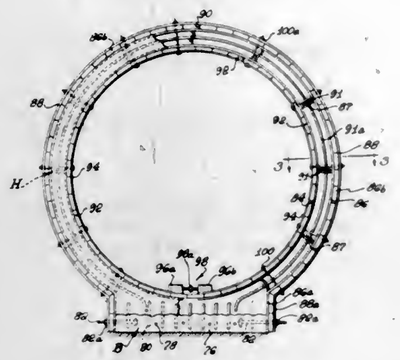
1. An expansible internal form for hollow concrete bodies comprising a relatively rigid core, a relatively yieldable resilient tubular metal shell surrounding said core, said shell having two longitudinally spaced ends secured to said core in fluid tight relationship defining a chamber, said shell having a divergent portion adapted for exposure to atmospheric pressure adjacent one of said ends, and means defining a passage communicating with said chamber for modifying the fluid pressure between said core and shell to displace portions of said shell radially and longitudinally relative to said core.

2,612,674
FORM TIE FOR WALL STRUCTURES
John L. Bracewell, Shreveport, La.
Application September 12, 1947, Serial No. 773,688
3 Claims. (Cl. 25—131)



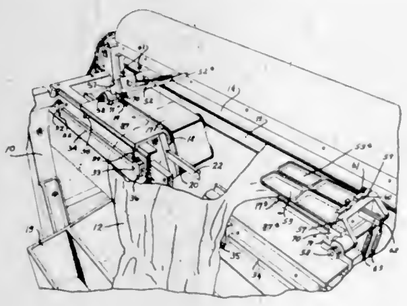
1. A mold structure comprising a pair of spaced mold forms, one of said forms having an apertured plate secured to the inner face thereof and defining a central opening therethrough, a similarly apertured plate adapted to be aligned with the opening of the aforesaid plate and disposed in contact with the inner face of the other of said mold forms, a spacer member having a tubular body structure extending linearly between said mold forms and terminating at opposite ends in integral flanges tapered outwardly from said tubular body structure toward each end thereof and ending in a flat annular face surrounding the ends of said tubular body structure and offset inwardly from each end of the tubular body structure for a distance substantially equal to the thickness of the aforesaid apertured plates, each of the projecting tubular ends of said spacer member being extended through the apertures in the apertured plates, and a tie bar projecting through said mold forms and through said tubular body structure for securing said mold forms together, said mold forms when separated from said spacer member operating to withdraw said apertured plates from the tubular ends of said spacer member and providing an annular hollow space in the molded material around the ends of said tubular body structure.

2,612,675
METHOD OF ERECTING CONCRETE STRUCTURES
William E. Wread, Los Angeles, Calif.
Application December 27, 1948, Serial No. 67,282
2 Claims. (Cl. 25—154)



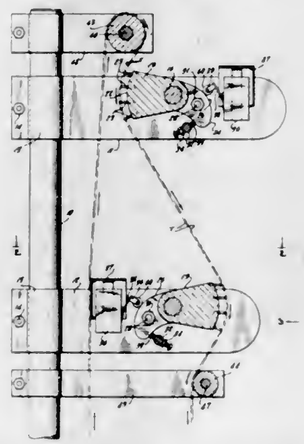
1. A method of forming horizontal tubular concrete structures, comprising forming a horizontally extending base slab, with embedded laterally projecting retaining members; mounting hoop-like spacers along said base and securing the same to said retaining members; securing longitudinal and circumferential reinforcing rods in position relatively to said spacers; placing external retaining bands around but spaced from said spacers and securing the same to the retaining members, positioning outside planking between said retaining bands and hoop-like spacers; positioning expansible inside hoop members within said hoop-like spacers, positioning inside planking between the expansible hoops and hoop-like spacers, then filling the space between said outer and inner planking with concrete and then removing the planking, external bands and expansible hoops for re-use, leaving the hoop-like spacers embedded in the concrete of the structure.

2,612,676
MATERIAL UNROLLING ATTACHMENT FOR NAP-RAISING MACHINES
Saul O. Sidore, Manchester, N. H.
Application February 13, 1951, Serial No. 210,685
15 Claims. (Cl. 26—29)



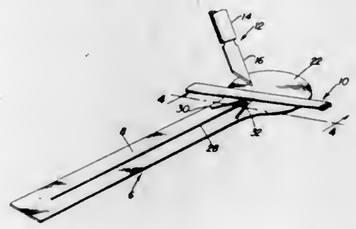
1. In a material unrolling attachment for nap-raising machines, the combination with the usual feed rollers, of a pair of endless belts arranged in front of the feed rollers to move transversely of the path of the material in relatively opposite directions and positioned to engage beneath the material, and pressure plates positioned to engage the upper surface of the material above said belts.

2,612,677
INSPECTION APPARATUS
Leonard W. Boley, Brooklyn, N. Y.
Application October 10, 1951, Serial No. 250,628
10 Claims. (Cl. 26—70)



1. An inspection apparatus of the character described, comprising a longitudinally extending movable support and a plurality of sensing elements mounted on and projecting from said support, said elements being arranged in mutually staggered relationship along said support and being substantially uninterrupted in their longitudinal extent.

2,612,678
EMBALMER'S TISSUE SEPARATOR
Jenifer W. Renfro, Cincinnati, Ohio
Application February 13, 1950, Serial No. 143,850
3 Claims. (Cl. 27—21)



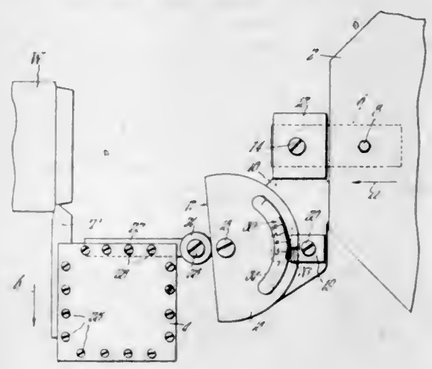
2. A tissue separating instrument of the class shown and described comprising an elongated probing blade adapted to separate a vein or artery from the surrounding fascia and to expose and accessibly hold same up and away from said fascia while making an incision with a scalpel, one surface of said blade being flat and constituting an incising platen for the scalpel, said surface having scalpel receiving guiding and anti-slipping means to safeguard the operator and said means embodying a long linearly straight groove and a companion V-shaped groove at one end of the straight groove.

2,612,679
FILAMENTS CONTAINING FILLERS
Rolf Karl Ladisch, Drexel Hill, Pa.
Original application October 23, 1950, Serial No. 191,672. Divided and this application August 21, 1951, Serial No. 242,972
11 Claims. (Cl. 28—82)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



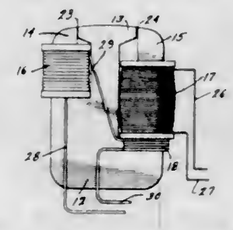
1. Artificial filaments containing solid particles which lie wholly on the inside of the filament, many of said solid particles being larger than the diameter of the filament.

2,612,680
TAPER TURNING ATTACHMENT FOR TURRET LATHES
Robert E. Dow, Longmeadow, Mass.
Application April 7, 1950, Serial No. 154,546
2 Claims. (Cl. 29—57)



1. Apparatus for association with the turret and tool carrying means of a turret lathe wherein said turret is fed longitudinally at a predetermined rate towards a rotating work piece and in parallelism with the axis of rotation thereof and said tool carrying means includes a tool post which is fed at a predetermined rate transversely to said axis on a slide which is movable in parallelism with the direction of movement of said turret comprising, a support for securement in said turret, a cam having a substantially straight longitudinal edge cam face, pivotal connections between said cam and support arranged whereby said cam face may be disposed in various fixed transverse horizontal planes relative to the longitudinal movement of said turret, means for clamping said cam to said support in adjusted fixed positions to locate the cam face horizontally and transversely relative to the direction of movement of the turret, a tool carried by said tool post for machining said work piece, and a holder adapted for securement in said tool post having a roll for engagement by said cam face whereby as said turret is fed forwardly towards said work piece said slide is moved in parallelism therewith through the tool post being fed outwardly and transversely on said slide.

2,612,681
METHOD OF MAKING MAGNETIC RECORDING HEADS
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Original application November 29, 1945, Serial No. 631,682, now Patent No. 2,456,767, dated December 21, 1948. Divided and this application February 17, 1947, Serial No. 729,100
1 Claim. (Cl. 29—155.58)



The method of making an electro-magnetic transducer head for transducing signal energy between a traveling magnetic record medium and an electric circuit comprising the steps of stamping from paramagnetic sheet material three parallel straight legs integrally joined at one of their ends and free at their other ends with a T-shaped retaining head on the free end of the center leg, bending the free ends of the outer legs out of the plane of the center leg to separate the free ends of the legs at least a distance equal to the original parallel spacing of the legs contemporaneously slipping a tightly fitting preformed coil on each of the outer legs, and bending the outer legs back to the plane of the center leg to a predetermined spacing from the T-shaped head to retain each coil snugly on its respective leg.

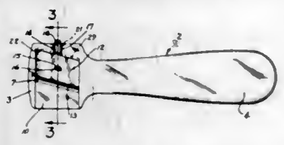
2,612,682
METHOD OF CLADDING A COPPER-BASE METAL TO AN ALUMINUM CORE
Harry B. Burrack, Brooklyn, N. Y., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Delaware
No Drawing. Application April 5, 1946, Serial No. 659,892
2 Claims. (Cl. 29—189)

1. In the cladding of a copper-base metal to an aluminum core the method which comprises heating the copper-base metal to a temperature of from 300° F. to 425° F. and rolling aluminum foil thereon while hot to form a mechanical bond therebetween, heating the copper-base metal with the foil attached and the aluminum core to a hot rolling temperature of at least 750° F., and subjecting the heated metals while at a temperature which facilitates roll reduction thereof to a rolling operation to effect a substantial overall reduction, thereby firmly bonding the copper-base metal to the aluminum.

2,612,683
CORN AND CALLUS TRIMMER
Claud L. Potvin, Minneapolis, Minn.
Application September 13, 1951, Serial No. 246,465
6 Claims. (Cl. 30—26)

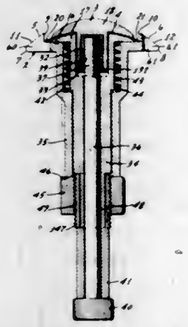
1. In a device for trimming corns, calluses, and the like, comprising an elongated body provided at one end with an enlarged head having a recess therein terminating at its bottom in an elongated opening disposed obliquely to the longitudinal

axis of the head, said recess having an inclined blade supporting wall, the lower edge of which defines one side of said elongated opening, a knife blade having a cutting edge on one end seated on said inclined wall with its cutting edge



projecting slightly through said elongated opening, and a spring clip having one end engaged with said blade and having means at its opposite end adapted to interlock with means on a wall of said head, thereby to detachably secure the blade in operative position in said head.

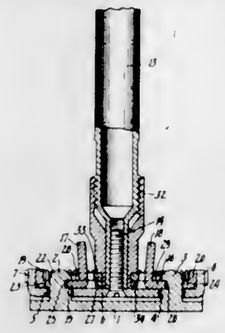
2,612,684
HAIR TRIMMING TYPE RAZOR
Warren M. Mansfield, Glendale, Calif., assignor, by mesne assignments, to Cutter Corporation, a corporation of Delaware
Application March 12, 1948, Serial No. 14,613
3 Claims. (Cl. 30—31)



3. A hair trimming type razor comprising a blade holder having opposed curved members for clamping the blade in curved position therebetween, a guard having transverse tips, having an outer inclined contour and having faces respectively lying in a plane transverse to the blade, means supporting said blade holder for movement of the blade parallel to itself lengthwise of and in close proximity with said faces of said transverse tips, said means supporting said blade holder for movement of the blade to a shaving position with the cutting edge of the blade adjacent the outer end of said faces, said means supporting said blade holder for movement of the blade to a non-shaving and hair cutting position with the cutting edge of the blade inwardly of said shaving position behind said faces and removed from the outer contour of said tips by an amount which increases as the cutting edge is adjusted inwardly of said faces.

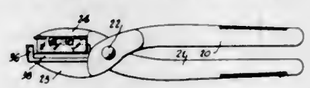
2,612,685
RAZOR
William Brighton Tully, East St. Kilda, Victoria, Australia
Application December 28, 1948, Serial No. 67,601
In Australia February 12, 1948
5 Claims. (Cl. 30—60)

1. In a safety razor, the combination comprising a supporting plate having apertures therein, a handle secured to the supporting plate, extensions at the ends of said supporting plate, guard rods extending between said extensions and spaced from and parallel to opposite edges of the supporting plate, a blade-clamping cap, studs on the said cap adapted to project through the apertures in the supporting plate, catch plates mounted on the supporting plate, extensions at the outer end of each catch plate, the last said extensions being slidably mounted on the guard rods, anchoring means for the inner



ends of said catch plates, the said catch plates being adapted to slidably engage said anchoring means, and helical compression springs mounted on said guard rods and adapted to press the extensions on said catch plates outwardly towards the extensions on said supporting plate, said studs having notches adapted to be engaged by said catch plates under the pressure of said springs for holding said parts in assembled position, the said springs constituting the sole means for retaining the catch plates in engagement with said notches.

2,612,686
GASKET CUTTER
William Wagner, Brooklyn, N. Y.
Original application April 1, 1949, Serial No. 84,796. Divided and this application December 30, 1949, Serial No. 136,104
6 Claims. (Cl. 30—178)

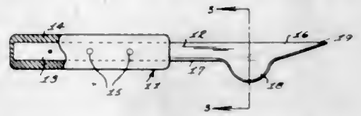


1. A notch cutter for gaskets and the like, comprising a pair of co-acting pivotally connected handles, a pair of co-acting jaws on said handles, one of said jaws having a triangular block removably fastened thereto, a pair of cutting blades removably mounted on two sides of said block to describe a V between them, an anvil for said cutting blades mounted on the second of said jaws, and guiding means on said second jaw for locating the gasket on the anvil relative to the cutting blades.

2,612,687
FRUIT-CORING UTENSIL
Paul G. Burch, Sheffield, Ala.
Application August 19, 1949, Serial No. 111,204
1 Claim. (Cl. 30—346)

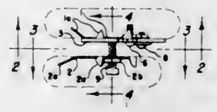
A knife for coring fruit, such as apples and pears, comprising an elongated flat blade having one substantially straight edge, one end portion of said blade constituting a shank having substantially parallel edges, a handle receiving

and secured to said shank, and an extension projecting from the other edge of said blade at a location spaced from said handle and having a substantially semicircular edge, the portion of said other edge between said handle and said projection being substantially parallel to said one edge and the portion of said other edge at the



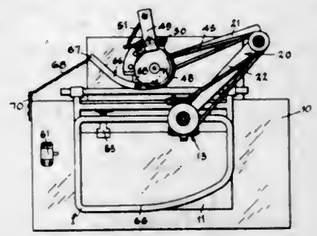
side of said projection remote from said handle being inclined to meet said one edge at the end of said blade remote from said handle, the semicircular edge of said projection being disposed in a common plane with said other edge of said blade and said other edge of the blade and semicircular edge of said projection being beveled to a sharp condition.

2,612,688
VERTICAL OPENING GOTHIC ARCH TRACING DEVICE
Hugh Avary, San Diego, Calif.
Application October 15, 1949, Serial No. 121,592
5 Claims. (Cl. 32—19)



1. In a vertical opening Gothic arch tracing device, a pair of plates adapted to be individually secured in opposed relationship to each other in connection with a pair of bite blocks, or the like, one of said plates having an adjustable screw provided with a cone point portion directed toward the other of the plates, the other of said plates having a secondary plate adjustably mounted in connection therewith, provided with a cone recess adapted to conform with the cone point of said screw, adjustable stops engageable with said secondary plate secured to said other plate.

2,612,689
TEMPLATE CUTTING MACHINE
William Kirkman and Gilbert J. Barnett, Ottawa, Ill., assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application July 17, 1948, Serial No. 39,226
3 Claims. (Cl. 33—27)



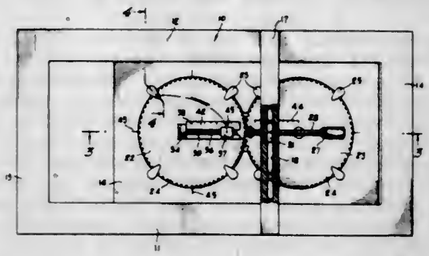
2. The combination with a sheet cutting machine including a support for the sheet to be cut, a template mounted in spaced relation to said support and having two sides connected by a relatively sharply curved portion, a cutting unit adapted to travel along said template and including a cutting tool engageable with the sheet to be cut, a pivoted hinged arm for supporting the cutting unit as it moves along the template, and means for moving said unit therealong, of a cushioning and movement retarding member positioned to engage said arm as said cutting tool leaves the portion of its path determined by one of said two sides of the template and moves onto the portion of its path determined by said sharply curved portion of the template and to subsequently disengage said arm upon continued movement of said cutting tool in the same direction.

2,612,690
COMPASS
Arthur F. R. Cotton, Merrick, N. Y.
Application September 15, 1947, Serial No. 774,130
In Great Britain September 17, 1946
1 Claim. (Cl. 33—27)



A compass comprising a substantially disc-shaped member having a plurality of calibrated holes formed therein in spiral relation to its center point, a straightedge having a plurality of calibrated holes formed therein, longitudinally thereof and in alignment with each other, a slot formed at one end of the straightedge in alignment with the calibrated holes in said straightedge, said straightedge having a recess formed in the bottom thereof to accommodate the disc-shaped member, the depth of said recess corresponding substantially to the thickness of said disc-shaped member so that the bottom surfaces of said disc-shaped member and of the main body of the straightedge will occupy a common plane, and a rivet pivotally securing said recessed end of the straightedge to the top center of said disc-shaped member, thereby providing for relative pivotal movement between said disc-shaped member and said straightedge on a substantially common plane and thereby enabling said spirally arranged holes to enter into registration with said slot at different points along said slot, depending upon which hole is in registration therewith.

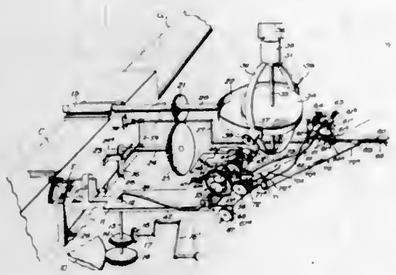
2,612,691
ELLIPSOGRAPH
Ralph L. Fowler, Whittier, Calif.
Application February 18, 1952, Serial No. 272,193
3 Claims. (Cl. 33—31)



1. An ellipsograph comprising a base, a slide slidably mounted thereon for sliding movement

in a straight lateral direction, a pair of equal sized tangentially arranged rotors rotatably mounted on the slide having mutually engaged peripheral teeth for causing the rotors to rotate in unison but in opposite directions, a crosshead extending across the base at right angles to the direction of sliding movement of the slide, a slide on the crosshead, means connecting one of the rotors to the slide on the crosshead, a slot in the other rotor, and a stylus mounted on said other rotor extending through the slot.

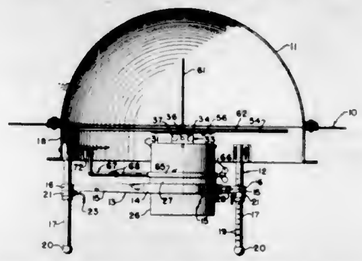
2,612,692
GYROSCOPIC GUN SIGHT
Herbert K. Weiss, El Paso, Tex., assignor to the United States of America as represented by the Secretary of War
Application July 14, 1945, Serial No. 605,174
19 Claims. (Cl. 33—49)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



11. In a gun directing mechanism, means simulating to scale a triangle having a first side of fixed length and maintained substantially parallel to the bore of a gun to be directed, and a second side pivoted at one end to an end of said first side and having its effective length adjustable in accordance with the speed of a target, means mounting said second side for rotation about said one end and in a horizontal plane, a sight line device connected to remain parallel to a third side of said triangle, a gyroscope having a precession axis normal to its spin axis, said precession axis lying in a vertical plane parallel to the vertical plane through the axis of the bore of said gun and connected to be elevated in said plane at twice the rate of elevation of said gun, and means controlled by precession of said gyroscope to correspondingly rotate said second side of said triangle.

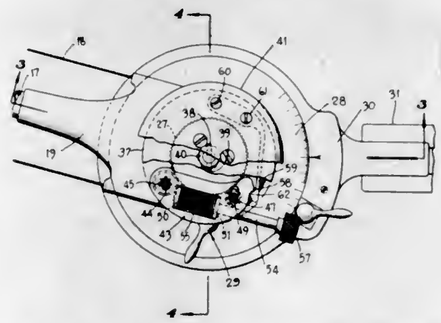
2,612,693
SUN COMPASS
Erick O. Schonstedt, Washington, D. C.
Application March 8, 1951, Serial No. 214,619
2 Claims. (Cl. 33—61)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Apparatus of the character disclosed for use in an aircraft during the flight thereof comprising, a transparent astral dome mounted in the top of said aircraft, a circular frame in said aircraft and having said astral dome attached thereto, a plurality of depending supports secured to said frame, a spider slideably mounted for vertical movement on said supports, locking means for securing said spider in adjusted position on said depending supports, a sun compass having a shadow producing rod and a dial therefor, said compass being supported by said spider, said spider moving said sun compass into said astral dome when adjusted upwardly and moving said sun compass out of said dome when adjusted



downwardly whereby the dial and rod may be adjusted to receive the sun's rays over a wide range of relative positions of the sun and aircraft.

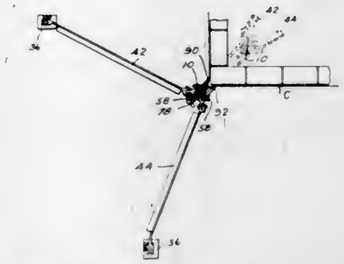
2,612,694
DRAFTING MACHINE
Francis E. Vaughan, Pasadena, Calif.
Application July 11, 1945, Serial No. 604,494
8 Claims. (Cl. 33—79)



1. In a drafting machine of the pulley and band type the combination of: a pulley movably mounted over a flat surface while its orientation with respect to said flat surface is maintained, a hollow shaft which is fixed to said pulley and concentric therewith, a scale supporting member positioned below said pulley and having a second shaft fixed thereto which extends through said pulley and said hollow shaft and which is concentric therewith and rotatable relative thereto, a handle on the upper end of said second shaft, a gear fixed against rotation relative to one of said shafts and positioned concentrically of such shaft between said pulley and said handle, a support carried by the other of said shafts, a third shaft rotatably mounted on said support and extending laterally with respect to said second shaft above said pulley and adjacent said handle, and a worm screw fixed to said third shaft for engagement with said gear to control relative rotation of said pulley and said scale supporting member, said support and said third shaft being movable to engage and disengage said worm screw and gear.

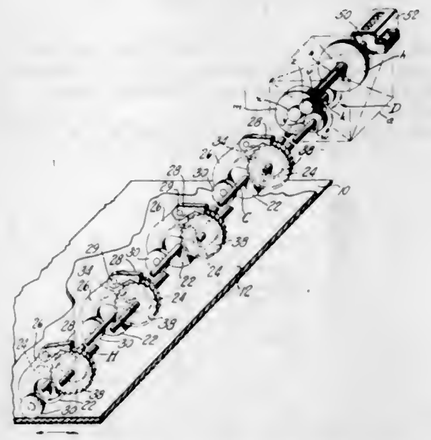
2,612,695
LINE HOLDER
Kenneth E. Schneider and Gerald W. Schneider, Borger, Tex.
Application February 12, 1951, Serial No. 210,512
1 Claim. (Cl. 33—85)

In a line or cord holder a standard adapted to be supported in a vertical position adjacent a corner of a building, a carriage mounted on said standard to move vertically, means carried by the carriage and engaging the standard for holding said carriage at a selected height on said standard, a pair of arms projecting outwardly from the carriage toward the building, line holding fingers on the arms for holding a cord or line in a position to define one side of the wall of the



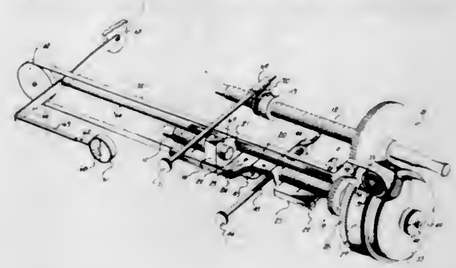
building, a third arm carried by the carriage between the first mentioned arms, said third arm being of less length than the pair of arms, and a finger carried by said third arm adjacent the end thereof remote from the carriage for holding the cord or line passing between the first mentioned fingers out of the way of the corner of the building.

2,612,696
WORKPIECE AREA MEASURING MACHINE
Paul E. Morgan, Melrose, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 11, 1950, Serial No. 137,988
5 Claims. (Cl. 33—121)



4. A machine for measuring the area of a spread-out work piece comprising a work supporting and conveying surface, two parallel shafts extending over and transverse to the path of said supporting surface, one of said shafts being arranged to be rotated at a speed proportional to the speed of the said surface, mechanism cooperatively connecting the two shafts and contacting the uncovered portion of said surface for intermittently rotating the other shaft an amount proportional to the amount of area of said portion, and means for registering the rotation of said shafts as a measurement of the area of the work piece as conveyed on said surface.

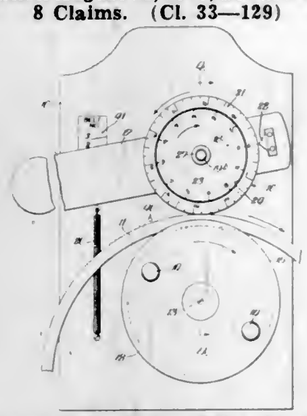
2,612,697
ADJUSTMENT INDICATOR FOR PRECISION MACHINE TOOLS
Leslie J. Mathson, Franklin Township, Milwaukee County, Wis., assignor of one-half to Riteway Tool and Die Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 16, 1948, Serial No. 39,033
13 Claims. (Cl. 33—125)



10. In a machine tool having a movable carriage and a support therefor constraining the carriage to linear adjustability on said support, means for adjusting the position of the carriage and supplementary adjusting means for correcting deviation of the carriage from any selected position of adjustment on its support, sensing means for showing inaccuracy in the adjustment of the carriage and deviation thereof from a selected position of adjustment, said sensing means comprising an accurate screw at least as long as the range of adjustment of the carriage on its support; bearings fixed on the carriage support having the screw journaled therein, said bearings constraining the screw to rotation about an axis parallel to the linear adjustability of the carriage and holding the screw against endwise displacement with respect to the carriage support; a datum nut threaded on and directly supported solely by the screw; a guide member having sliding engagement with the datum nut, said sliding engagement between the guide member and the datum nut providing for axial movement of the datum nut with respect to the guide member while at the same time holding the datum nut against free rotation about the screw; a permanent drive between the screw and the carriage adjusting means so that rotation of the screw and adjustment of the carriage are always concomitant, the ratio of said drive and the pitch and direction of the screw threads being such that the traverse of the datum nut along the screw in consequence to rotation of the screw is in the same direction as travel of the carriage and in unison therewith to the extent that the accuracy of the carriage adjusting means permits; means for turning the screw to effect translation of the datum nut along the screw and guide track the exact distance it is desired to move the carriage from one position thereof to another and at the same time bring the carriage ostensibly to its selected position of adjustment, inaccuracy in the adjustment of the carriage and deviation thereof from its selected position being reflected by a corresponding bodily relative displacement between the carriage and datum nut from the predetermined positional relationship which obtains when the carriage is exactly in its selected position of adjustment; and sensitive indicator means connected between the datum nut and the carriage and responsive to such bodily relative displacement between the carriage and datum nut for

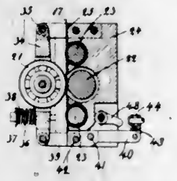
depicting the same and thereby showing the need for supplementary adjustment of the carriage.

2,612,698
BELT MEASURING DEVICE
Alexander T. Bodle, Mishawaka, Ind., assignor to Dodge Manufacturing Corporation, Mishawaka, Ind., a corporation of Indiana
Application August 16, 1948, Serial No. 44,511
8 Claims. (Cl. 33—129)



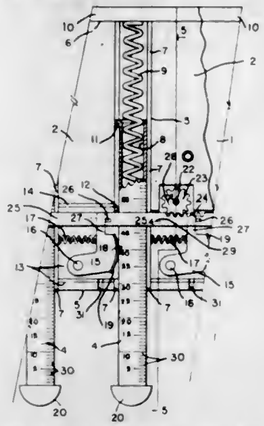
4. In a measuring device of the class described, the combination of a measuring roller having on its face an annular units dial, said roller having a concentric circular recess surrounded by said units dial, a carrier having fixed thereto an axle on which said roller rotates, a tens dial rotatable on said axle and rotatably fitted in said recess, mechanism carried by said axle within said recess for turning the tens dial one step on every complete rotation of said roller, and a pointer fixed to said carrier and cooperating with said dials as and for the purpose described.

2,612,699
DEVICE FOR MEASURING LENGTHS
Lars Erik Herbert Gustavsson, Karlskoga, Sweden
Application November 28, 1949, Serial No. 129,761
In Sweden May 19, 1948
5 Claims. (Cl. 33—141)



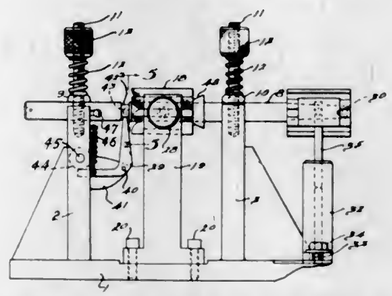
1. In apparatus for measuring the displacement of two relatively movable members, an elongated element and bracket means securing the ends thereof to one of said members, measuring means carried by the other member and including a drive roller adapted to be rotated by said elongated element, idler guide rollers at the same side of said elongated element as said drive roller and at opposite sides of said drive roller, said guide rollers being so positioned that said elongated member when coinciding with a common tangent to the guide rollers is spaced radially from said drive roller, and coupling means including a spring pressed roller for deflecting said elongated element out of the plane of said common tangent and into contact with said drive roller.

2,612,700
ADJUSTABLE TEMPLATE
Erik E. Frisk, Duluth, Minn.
Application May 14, 1951, Serial No. 226,211
2 Claims. (Cl. 33—175)



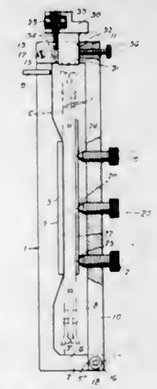
1. A device for measuring contours comprising a body member, a plurality of spaced substantially alined fingers reciprocably carried by said body, means biasing said fingers to normally extend in an outward position with one end thereof extending beyond said body, a cam mounted on said body adjacent each of said fingers, said cams being pivoted and biased in a position to normally engage said fingers and prevent outward movement of said fingers but to permit substantially free inward movement thereof, and means for releasing all of said cams simultaneously from engagement with their respective fingers.

2,612,701
GEAR TOOTH LEAD TESTING DEVICE
George C. Razor, Detroit, Mich., assignor to Michigan Tool Company, Detroit, Mich., a corporation of Delaware
Application October 29, 1945, Serial No. 625,139
2 Claims. (Cl. 33—179.5)



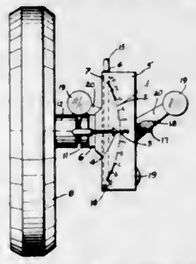
1. Apparatus for checking the lead of gear teeth comprising a base, a mandrel mounted for reciprocable movement thereon, said mandrel serving to rotatably support a gear to be checked, a master gear secured to said mandrel, said master gear having the teeth thereof tapered at one end, a tapered collar mounted on said mandrel coaxially with said master gear and abutting the axial end of said gear opposite to the end having the tapered teeth, a follower mounted on said base contacting the flanks of the teeth of the master gear, a rounded member mounted on said base in a plane parallel to the longitudinal axis of said mandrel and spaced from said follower member by a distance slightly greater than the axial length of said master gear, said tapered collar being tapered sufficiently to permit rotation of said master gear when the said follower is in engagement therewith, said mandrel being axially movable with respect to said base whereby when said follower leaves engagement with the teeth of said master gear said rounded member will engage the tapered ends of said gear teeth in offset relationship to the extremity of the taper on the ends of said teeth whereby to cause sufficient rotation of said master gear to permit said follower to enter the next adjacent interdental space in said master gear on return axial movement of said mandrel and means on said base to check the lead of said gear to be checked.

2,612,702
CHAIN SAW GAUGE
Arthur W. Pearce, Whittier, Calif.
Application May 8, 1946, Serial No. 668,228
11 Claims. (Cl. 33—202)



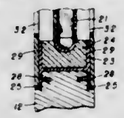
1. A chain saw gauge comprising an aligning frame including separable sections, one section being a right angle formed with straight edges, a gauge plate having radial markings and having a series of depressions aligned with said markings, means on the frame for holding the gauge plate in position against a cutter bar of a chain saw, and a screw in the frame engageable with one of said series of depressions to secure the frame in aligned position.

2,612,703
TURN GAUGE
Biagis Castiglia, New York, N. Y., assignor to Wheel Aligning Necessities, Inc., New York, N. Y., a corporation of New York
Application October 1, 1947, Serial No. 777,287
9 Claims. (Cl. 33—203.15)



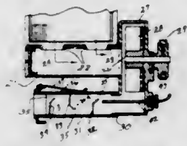
5. In a turn gauge for vehicle front wheels having a pointer secured to the free end of the axle spindle, means abutting the wheel hub end for aligning said turn gauge in parallelism with the end face of the wheel hub, an indicator scale having indicia thereon to cooperate with said pointer to show the degrees the pointer is turned forward or rearward from the center position on said indicator scale, and means for moving said aligning means away from said hub end independent of said indicator scale to permit the wheel and pointer to be swung as when turning.

2,612,704
LEVEL TUBE SUPPORT
Ruben L. Ruckman, Texas City, Tex., assignor to Arthur M. Stewart, Texas City, Tex.
Application July 1, 1947, Serial No. 758,298
3 Claims. (Cl. 33—211)



1. A leveling device comprising a support having an opening therein, a pair of registering cups anchored within the opening, said cups having flat side walls, a liquid containing bulb having an air bubble, the ends of said bulb being received within the cups, cement in the cups and anchoring the bulb to the cups, said support including flat side faces through which said opening extends, said side faces having recesses therein about the opening, and cover plates mounted in the recesses against the flat side walls of said cups, said cover plates having slots in registry with said bulb.

2,612,705
TUMBLER CLOTHES DRIER
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application August 8, 1947, Serial No. 767,616
1 Claim. (Cl. 34—85)



In a drier, a horizontal drum for receiving and tumbling clothes and rotatable on its axis, a wrap around sheet surrounding the periphery of the drum, an axially extending duct on the outside of the sheet extending from front to back, said duct and wrap around sheet having contiguous walls with registering openings therein, the openings in the wrap around sheet being flanged and the flanges thereof projecting through the registering openings in the duct, a clean out cover for the front end of the duct, and a fan having an intake receiving the back end of the duct.

2,612,706
CONTINUOUS MANUFACTURE OF EXTRUDED CLAY COMPOSITION BODIES
Joseph A. Simpson, Stockton, and Clark Sutherland, Pasadena, Calif., assignors to Pacific Clay Products, Los Angeles, Calif., a corporation of California
Application December 13, 1949, Serial No. 132,694
6 Claims. (Cl. 34—105)

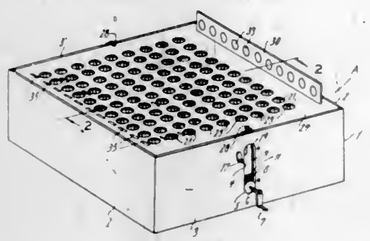
1. In an apparatus for drying long lengths of freshly extruded clay pipe and conduit compris-

ing: a longitudinally extending continuous type dryer having side walls and a roof, said dryer having an open feed end and a discharge end; a continuous chain conveyor extending through said dryer, said conveyor being provided with a series of rotatable rolls extending transversely of the dryer, said rolls being in spaced relation; fixed track means beneath the upper lay of said conveyor, said track means being in contact with said rolls; means for driving the conveyor to move the rolls in a direction transverse to their axes from the feed end to the discharge end of the dryer and to simultaneously impart rotation thereto by rolling contact with the track; a



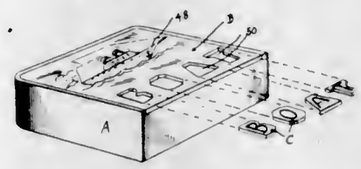
plurality of means in each side wall of the dryer for supplying heated gases thereto, said heat-supplying means being spaced from each other in each side wall; a gas exhaust stack in communication with the dryer adjacent the feed end thereof; fan means for positively moving heated gases longitudinally of the dryer toward the stack; and a plurality of auxiliary fan means for repeatedly directing heated gases in alternately opposite directions transversely of the conveyor and through pipes supported on said conveyor while said heated gases are progressing from near the discharge end of the dryer toward the feed end thereof and counter to the movement of pipe in the dryer.

2,612,707
VISUAL RECORD TALLYING DEVICE
James T. Caradine, St. Louis, Mo.
Application January 16, 1950, Serial No. 138,896
6 Claims. (Cl. 35—24)



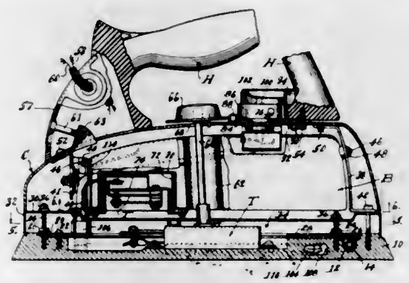
1. A visual record counting device comprising a case, a first board disposed across the top of said case and being provided with a multiplicity of apertures, a second board disposed within said case and adapted for vertical movement therein, a plurality of spaced posts disposed upstandingly upon said second board, each post being aligned with an aperture of said first board and being of substantially smaller size than such aperture for extension therethrough when said second board is in upwardly shifted position, and a plurality of washer-like counters having an external size smaller than the apertures of the first board, each washer-like member further being provided with an opening adapted to fit around the post so that the washer-like members may be removably disposed upon said posts and being adapted when so mounted to pass through said apertures with said posts for according a viewable graphic representation of recorded data.

2,612,708
EDUCATIONAL TOY
Lawrence Amsel, Philadelphia, Pa.
Application January 27, 1951, Serial No. 208,144
3 Claims. (Cl. 35—35)



1. An educational toy comprising an open-topped receptacle, a wall in the interior of said receptacle for dividing said receptacle into two chambers, illuminating means in one of said chambers and electrical power means in the other of said chambers, switch means provided adjacent said power means and adapted to connect said power means to said illuminating means, a cover plate adapted to close the open top of said receptacle, said cover plate having a non-opaque representation adapted to overlie said illuminating means and also having at least one cut-out portion adapted to overlie said switch means, at least one filler means adapted to fit into its correspondingly shaped cut-out portion, said filler means being adapted to actuate said switch so as to connect said power means to said illuminating means for the purpose of illuminating said representation.

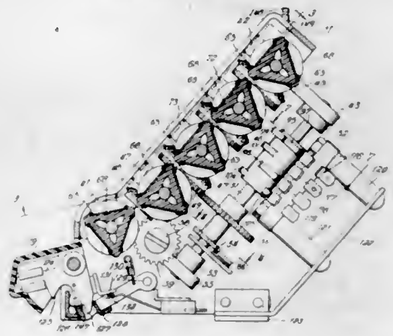
2,612,709
STEAM IRON
Kenneth B. Dafforn and Russell I. Huffman, Dover, Ohio, assignors, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application November 9, 1946, Serial No. 708,890
2 Claims. (Cl. 38—77)

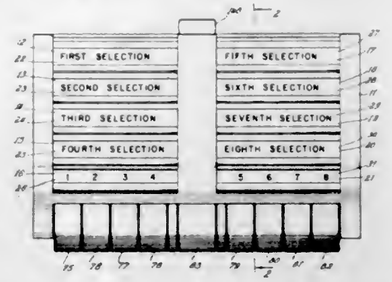


1. In a steam iron structure, a sole plate, heating means therefor, a transfer passageway extending through said sole plate, a discharge passageway for the discharge of steam from said sole plate, said transfer passageway being connected with said discharge passageway and receiving heat through its walls for superheating the steam from said heating means as the steam passes through said transfer passageway, discharge openings from said discharge passageway to the lower surface of said sole plate, a boiler for generating steam, said boiler having a steam dome adjacent the front end thereof, and a steam connection from said boiler to said transfer passageway comprising a tube passing through and secured to and thereby supported by the rear wall of said boiler with its front end internally of said boiler and entering said steam dome, the rear end of said tube being externally located relative to said boiler and depending from the

point where it is secured thereto to said sole plate and said transfer passageway therein, and having a disconnectible connection therewith.

2,612,710
REMOTE-CONTROL SELECTOR DEVICE
Paul M. Fuller, Buffalo, N. Y., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio
Application August 17, 1945, Serial No. 610,958
15 Claims. (Cl. 40—76)

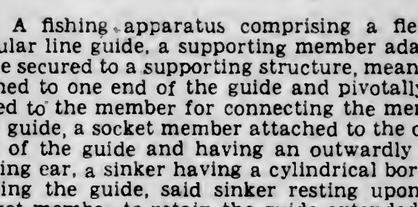




9. In a selector device of the character described, a frame, a plurality of rotary indicating means, each having a number of faces, selector means for selectively initiating the operation of one of a plurality of devices indicated by said indicating means, rotary identifying means associated with and identifying said selector and indicating means, and changing means for correspondingly changing said indicating means and identifying means, said selector means including a cam mounted for rotation in said frame, a plurality of selector switches, a plurality of connecting switches, means for rotating said cam in phase relation with said rotary indicating means, said cam having lobes adapted to actuate said connecting switches to place the devices indicated by said indicating means in predetermined electric relation with said selector switches.

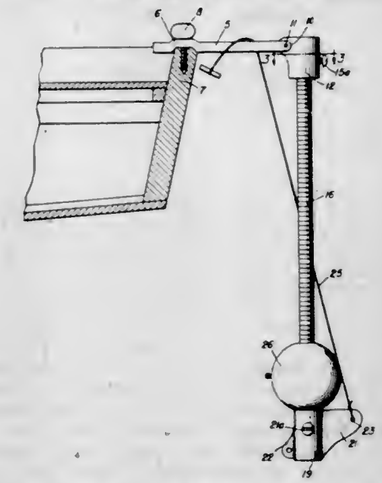
2,612,711
CARD STRUCTURE AND METHOD OF MAKING SAME
Leonard Baker, Hillsdale, N. J., assignor, by mesne assignments, to Filmsort, Inc., a corporation of Delaware
Application June 23, 1949, Serial No. 100,793
11 Claims. (Cl. 40—158)

7. An article of the character described, comprising a card of a uniform thickness having an aperture therein and a plurality of notches spaced around said aperture and opening into the latter, an insert of a thickness less than the thickness of said card positioned within said aperture centrally between the opposite plane surfaces of said card, said insert being substantially of the same size and shape as said aperture and said card having the portion thereof immediately surrounding said aperture and



containing said notches symmetrically tapered at opposite sides thereof to the thickness of said insert, and an adhesive substance in each of said notches and set to a dry non-tacky non-flowable solid for securing said insert to said card.

2,612,712
FISHING APPARATUS
Andrew A. Kruze, Detroit, Mich.
Application October 13, 1947, Serial No. 779,459
3 Claims. (Cl. 43—4)



1. A fishing apparatus comprising a flexible tubular line guide, a supporting member adapted to be secured to a supporting structure, means attached to one end of the guide and pivotally secured to the member for connecting the member and guide, a socket member attached to the other end of the guide and having an outwardly projecting ear, a sinker having a cylindrical bore receiving the guide, said sinker resting upon the socket member to retain the guide extended and straight, and an actuating cord attached to the ear adapted to be manually actuated for flexing the guide.

2,612,713
AUTOMATIC FISHING DEVICE
Gothern M. Jenkins, Doniphan, Mo.
Application August 8, 1950, Serial No. 178,318
1 Claim. (Cl. 43—15)

In combination, a fishing rod, a fishing line extending longitudinally along a side of the rod, a hooking mechanism secured to said rod including a spring retracted plunger and a trigger, said plunger being laterally flexible and said trigger

being operatively engaged with the line, and means on said plunger for releasably connecting the line to said plunger, said means comprising a tubular plug body secured to and extending crosswise of said plunger and normal to the fishing rod, and a plug positioned in and movable endwise in said plug body from an inward position in which a portion of said plug and a portion of said plug body clamp the line therebetween



and operatively connect the line with said plunger to an outward position in which the line is disconnected from the plunger and is free to be operated independently of the hooking mechanism, said plunger being flexible toward the fishing rod to engage the inward end of said plug with the fishing rod to move said plug outwardly relative to the plug body for releasing the plug and plug body from clamping engagement with the fishing line.

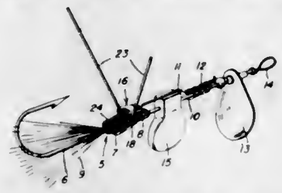
2,612,714
FISHING REEL SEAT
Joseph C. Coleman, Kokomo, Ind.
Application July 8, 1949, Serial No. 103,723
3 Claims. (Cl. 43—22)



1. The combination with a fishing reel base having end portions provided with outwardly and downwardly inclined upper sides, of a fishing reel seat comprising a bar having upstanding side walls defining a longitudinally extending channel portion receiving the fishing reel base, a strap member secured to the bar and disposed above the channel portion, said strap member extending across the channel portion adjacent to and spaced from one end thereof and forming a stationary keeper engaging a part of the upper surface of one end of the downwardly curved reel base, a slide slidably connected to the channel portion adjacent its opposite end and movable toward and away from the stationary keeper, said slide being guided in movement between two upstanding extensions of the side walls, said slide having an end wall located at the end thereof adjacent the stationary keeper and extending transversely of the channel portion, said end wall having an intermediate portion disposed above the channel portion and engaging on a part of the upper surface of the other end of the reel base, said end wall being provided with a downwardly directed arcuate grooved surface for engagement over and wedging engagement with the other end of the reel base, said slide being resiliently biased toward said stationary keeper in order to effect said engagement.

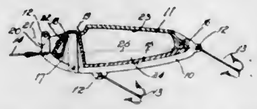
2,612,715
WEED GUARD FOR ARTIFICIAL LURES
James E. Wadlington, Celina, Tenn., and Raymond Stinnitt, Lexington, Ky., assignors of one-fourth to Bettie B. Wadlington, Celina, Tenn.
Application July 26, 1948, Serial No. 40,724
2 Claims. (Cl. 43—42.4)

1. A weed guard for an artificial lure having a body with an arcuate outer surface, said guard comprising a clip provided with a trough at one end, the arcuate surface of said body being disposed in said trough, said clip having a pair of spaced bearing eyes contacting the body of the lure, a substantially V-shaped guard having a crotch and a portion adjacent to said crotch being pivoted in said bearing eyes for



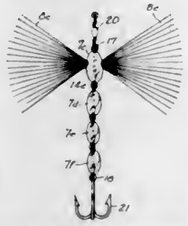
forward and rearward swinging movement, and a rearwardly projecting stop formed at the crotch of the guard and bearing against the body of the lure to hold the guard in a rearwardly inclined position and to press the lure body in said trough.

2,612,716
FISHING LURE
Harry A. Hedland, Evanston, Ill.
Application February 23, 1950, Serial No. 145,778
3 Claims. (Cl. 43—42.09)



3. A fishing lure comprising in combination a lure body which gives to the lure its external shape, size and color, a detachable elongated hook carrier in the form of a narrow and thin metal strip having means for attaching a line and hooks thereto, said body having a narrow thin groove therein corresponding in cross section to the cross-section of said carrier and extending longitudinally of said body and around one end so as to provide a hook-shaped contour at said end, one end of said carrier having a hook-shaped portion corresponding in contour to the hook-shaped portion of said groove, said carrier being adapted to lie in said groove with its outer surface substantially flush with the surface of said body, a releasable catch adjacent the front end of said carrier, and said body having an internal hollow passage to receive the catch and a surface to be engaged by said catch to lock said carrier in said groove.

2,612,717
FISH LURE
Henry A. Kuehnel, Santa Monica, Calif.
Application March 7, 1949, Serial No. 79,985
17 Claims. (Cl. 43—42.14)



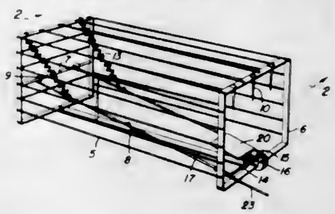
1. In a fish lure, a body comprising a mollusk shell of the Olividae species generally of elongated ovate form, spiral in cross section and having a lip projecting at an acute angle to the opposing portion of the body, a leader fitting at the forward end of said body, having a swivel connection therewith, a hook connection at the rear end of said body and wings secured to and projecting from said body.

2,612,718
CHUM-DISPENSING UNIT FOR FISHERMEN
Samuel Steinberg, New Haven, Conn.
Application April 28, 1950, Serial No. 158,883
12 Claims. (Cl. 43—43.15)



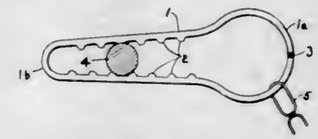
6. A combination float and chum-dispensing unit of the kind described comprising a float-member, a chum-holder connected to said float-member and provided with a chum discharge opening at its lower end, a substantially straight chum-feeding member extending through said chum-holder, float-member and the discharge opening and arranged to be movable relative to the holder through the opening, said chum-feeding member being provided with a surface to which particles of chum will adhere to be released from said chum-holder and be carried through the opening by movement of said member, and means above and below the float and chum holder and constituting a part of the feeder for attachment of a line thereto.

2,612,719
ANIMAL TRAP
Ollie F. Legg, Grove, Okla., assignor of one-half to Billie A. Legg, Grove, Okla.
Application September 23. 1949, Serial No. 117,402
1 Claim. (Cl. 43—79)



An animal trap comprising a rectangular shaped wire cage having an entrance at its front end and horizontal bars closing its rear end, a U-shaped jaw pivoted at its ends to one of the bars at the rear end of the cage and having the free end of the jaw positioned at the entrance, a spike rigidly supported in a downwardly extended position at the top of the entrance and above the jaw, a pair of coil springs connecting the sides of the jaw to the top of the cage for swinging the free end of the jaw upwardly, a longitudinal bar at the bottom of the cage and secured to the front and rear ends thereof, an animal actuated latch trigger pivoted to the front end of the bar and extending into the cage for overlying the free end of the jaw to releasably hold the jaw downwardly in its open position, a handle projecting forwardly from the free end of the jaw into a position in front of the cage for holding the jaw down while setting the trigger, and a bait holding prong rising from the bar adjacent its rear end.

2,612,720
TRAP CHAIN RING
Shirley E. Shilts, Olivet, Mich.
Application April 10, 1946, Serial No. 660,994
2 Claims. (Cl. 43—96)



1. The combination of a trap chain and a chain holder for attachment to a stake, said chain holder being formed of heavy gage wire material having a substantially circular formation at one end, a portion of said circular formation merging into straight converging legs connected together at their outer ends, the substantially circular part having no obstructions throughout its length, the portion of the chain adjacent to the holder having a link provided with an opening of greater extent than the greatest thickness of the substantially circular portion to permit free travel of the link on that portion for substantially 270° in an arc, said converging legs having protuberances on sides thereof facing each other, said protuberances being spaced a substantial distance from each other so as to permit a side of a stake to be seated between two adjacent protuberances on one leg and engage a side wall of the leg while a protuberance on the opposite leg mounts the stake in fixed relation on its seat, said latter protuberance being located substantially directly opposite the center between two protuberances on the other leg, the protuberances on each of said legs which extend from said substantially circular portion, when in engagement with said stake, constituting with said stake, stops to limit movement of the link of the chain to the confines of the portion of said chain holder and that portion of said converging legs up to the adjacent side of said protuberance engaged stake.

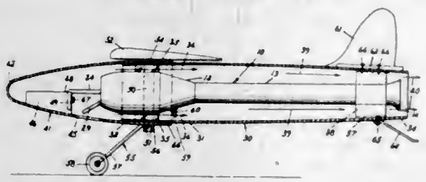
2,612,721
BOOKHOLDER
Willard L. Pollard, Evanston, Ill.
Application December 20, 1946, Serial No. 717,336
1 Claim. (Cl. 45—57)



A bookholder for resting on a horizontal supporting surface, comprising a body of relatively nonyielding material having a first substantially rectangular flat book edge supporting surface and a second substantially rectangular flat book

cover supporting surface, said first surface extending downwardly and rearwardly and having such an extent as to be engageable by the edges of the covers of a plurality of books placed thereon, and said second surface extending upwardly and rearwardly and having such an extent as to be engageable by the cover of the rear book and support the books in upwardly and rearwardly extending position, said body having a front transversely extending stop bar adjacent and extending upwardly above the front edge of said first flat supporting surface to prevent the lower edges of the books from slipping off said first surface and having a transversely extending front leg adjacent and extending downwardly below the front edge of said first surface, and having a lower contact edge for engagement with said holder supporting surface, said body having a second transversely extending contact edge for engagement with said holder supporting surface, said second contact edge being located substantially adjacent the intersection of said first and second surfaces, the entire holder between said edges lying a distance above the plane of said edges.

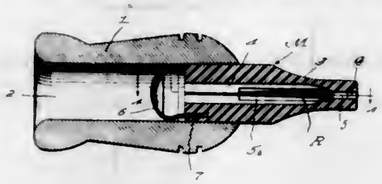
2,612,722
MODEL JET AIRPLANE
William L. Tenney, Crystal Bay, Minn.
Application July 10, 1947, Serial No. 760,069
2 Claims. (Cl. 46—76)



1. A pulse jet engine powered aircraft characterized by having a fuselage of generally tubular character with a rounded forward end and an open rear end, a wing on said fuselage, a pulse jet engine including a combustion chamber and an exhaust tube of generally tubular character opening directly into said combustion chamber and forming therewith integral parts of a system resonant in gases, said engine extending slightly forward of said wing and having a short air intake at its forward end with the discharge end of said exhaust tube extending adjacent but terminating just short of the end of said fuselage and being of smaller diameter than said fuselage, means for supporting said engine within said fuselage in spaced relation therewith around the entire circumference forming a passage for the rearward flow over the entire extent thereof of air for cooling and thrust augmentation, said supporting means including a forward support fixedly securing the combustion chamber within the fuselage and a rearward support for slidably supporting said exhaust tube within said fuselage to allow relative expansion thereof while maintaining a through passage for said rearward flow of air therethrough.

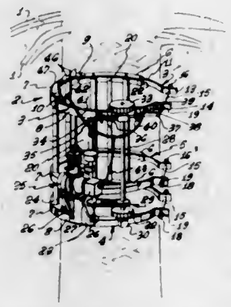
2,612,723
WIND SOUNDING DEVICE
Robert J. Nicolin, Waseca, Minn., assignor to Herter's, Inc., Waseca, Minn., a corporation of Minnesota
Application January 16, 1950, Serial No. 138,804
4 Claims. (Cl. 46—180)

1. A wind sounding device comprising a barrel open at both ends, an elongate mouth piece having an end inserted in one end of the barrel, the mouthpiece having an air passage longitudinally therethrough, a reed positioned in said passage, and means for preventing the sticking of the reed due to moisture collected thereon



comprising a body positioned within the barrel to obstruct the free passage of air therethrough and create a back pressure of air blown into the air passage, and air outlets through the mouthpiece at opposite side edges of the reed.

2,612,724
AUTOMATIC TREE TRIMMER
Willis E. Llewellyn, Compton, Calif.
Application February 19, 1949, Serial No. 77,314
12 Claims. (Cl. 47—1)

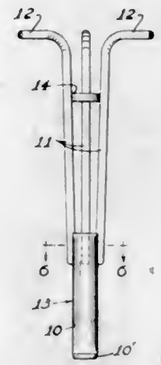


1. A self-contained power operated palm tree trimming device comprising: a cage frame selectively positionable around the trunk of a palm tree; cutting means carried by the cage frame for cutting dead palm fronds; means for driving said cage frame along a spiral path upwardly along the trunk; automatically releasable means for varying the angle of the spiral path to lower the cage frame; and said last-named means including a trigger means operable by difference in inclination of palm fronds encountered by the device.

2,612,725
FORMING AND CUTTING TOOL FOR FLORICULTURE, HORTICULTURE, AND TURF CULTURE
Edward J. Casey, Union, N. J.
Application February 21, 1950, Serial No. 145,398
5 Claims. (Cl. 47—1)

1. A tool for forming a hole, retaining soil, releasing and reducing the same, including a tubular member having at one end thereof a forming portion, said portion having a cutting edge and being tapered outwardly on the outside thereof to the outer surface of said tubular member, the inner diameter of said forming portion being constant for a short distance from the end of the forming portion and being of smaller diameter than the inside diameter of the tubular member and then tapering outwardly to the inner wall of

said tubular member, a plurality of elongated handles extending from the other end of said tubular member and spaced annularly to provide a support and pressure creating arms for said tool, said handles diverging outwardly from said tubu-



lar member, and a soil breaker supported between said handles to reduce said soil and screen large aggregates when said tool is inverted to permit soil released from said forming portion to pass between and along said handles to said soil breaker.

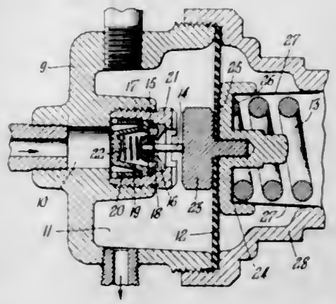
2,612,726
METHOD OF MAKING ULTRAVIOLET-TRANSMITTING HIGH-SILICA GLASSES
Martin E. Nordberg, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application April 21, 1950, Serial No. 157,403
8 Claims. (Cl. 49—79)

1. The process of treating an article composed of a glass containing over 94% SiO_2 and having throughout its mass a multiplicity of submicroscopic intercommunicating pores, said glass containing a trace of ferric iron, which includes heating the article in an anhydrous atmosphere of a gas selected from the group consisting of nitrogen, carbon dioxide, carbon monoxide, sulfur dioxide, helium, neon and argon to a temperature sufficient to cause substantial reduction of the ferric iron present therein but insufficient to effect substantial consolidation of the glass and holding the article at such temperature for a time sufficient to effect such ferric iron reduction, and thereafter heating the article in said atmosphere to a higher temperature insufficient to fuse the glass but sufficient to consolidate it to a nonporous condition until consolidation is complete.

2,612,727
METHOD OF MAKING ULTRAVIOLET-TRANSMITTING HIGH-SILICA GLASSES
Martin E. Nordberg, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
No Drawing. Application April 21, 1950, Serial No. 157,404
9 Claims. (Cl. 49—79)

1. The process of treating an article composed of a glass containing over 94% SiO_2 and having throughout its mass a multiplicity of submicroscopic intercommunicating pores, said glass containing a trace of ferric iron, which includes heating the article in a hydrogen-containing reducing atmosphere to a temperature sufficient to cause substantial reduction of the ferric iron present therein but insufficient to effect substantial consolidation of the glass and thereafter heating the article in an anhydrous atmosphere composed of a gas selected from the group consisting of nitrogen, carbon dioxide, carbon monoxide, sulfur dioxide, helium, neon, and argon to a temperature insufficient to fuse the glass but sufficient to consolidate it to a nonporous condition until consolidation is complete.

2,612,728
FLUID PRESSURE REGULATOR
Wilgot J. Jacobsson, Plainfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application October 2, 1946, Serial No. 700,692
5 Claims. (Cl. 50—23)

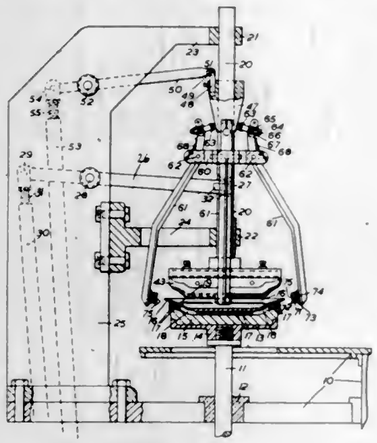


1. A fluid pressure regulator having a casing comprising an inlet and outlet and a port between said inlet and said outlet, a movable valve member controlling the flow of fluid through said port and coaxial with the latter, said valve member being the inner portion of a resilient diaphragm clamped adjacent its periphery, a spring bearing against one side of said valve member and pressing the latter toward said port, a stem having a shoulder bearing against the other side of said valve member, said stem being guided by said valve member, having one end thereof extending axially through said valve member and having the other end thereof projecting axially through said port and being of substantially smaller diameter than said port, and a pressure responsive diaphragm coaxial with said port and loosely connected to said stem, whereby the construction and arrangement is such that the loose connection of said stem to said diaphragm and the space provided between the port and stem permits automatic realigning of said valve member and said stem axially relatively to said port during the operation of said regulator.

2,612,729
TOWING CLAYWARE
John Walley and John A. Johnson, Stoke-on-Trent, England
Application October 10, 1949, Serial No. 120,515
In Great Britain October 9, 1948
12 Claims. (Cl. 51—3)

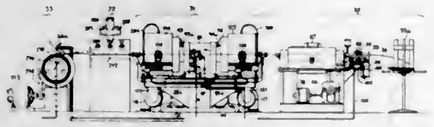
1. A machine for towing clay-ware articles comprising a head adapted to support the article, a towing element of a flexible nature extending without interruption diametrically across the face of the article and shaped to coincide with the contour of the article, said towing element being provided with a slit at substantially the center of the length of the element extending at

approximately right angles to the face of the article, means to impart rotary movement to



the head and article, and means to bring the article and towing element into contact.

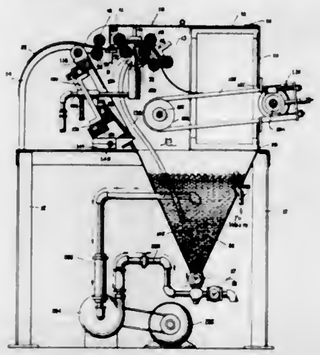
2,612,730
COIL GRINDING EQUIPMENT
Wallace K. Lowe, Syracuse, N. Y., assignor to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey
Application September 15, 1950, Serial No. 184,944
6 Claims. (Cl. 51—5)



6. In a grinding and polishing machine, a supporting head having an axial passage therethrough for wire stock, said passage being of greater diameter than that of said stock, means for rotating said head, means for feeding the wire stock through said opening, means for maintaining the stock in substantially coaxial relationship with said head, an abrasive wheel rotatably mounted upon said head and adapted for rotation therewith planetarily to move about the wire stock, a pair of pinch rolls, and a die positioned for acting upon the wire stock prior to the engagement thereof with said pinch rolls.

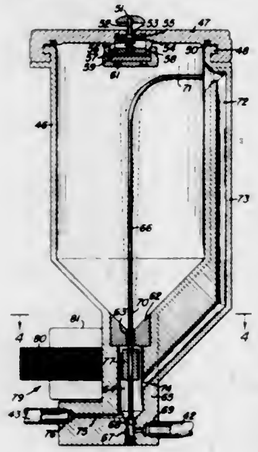
2,612,731
PLATE BLASTING MACHINE
Wiltie I. Gladfelter and Robert B. Huyett, Hagerstown, Md., assignors to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland
Application October 9, 1950, Serial No. 189,209
8 Claims. (Cl. 51—8)

1. In an automatic lithographic plate graining apparatus for automatically receiving such plates, automatically graining them and automatically discharging the grained plates; supporting structure for receiving an incoming plate; advancing and guiding mechanism connected with the supporting structure for energization to carry a received plate in a predetermined work path along at least part of which the plate is curved; blasting elements connected with the advancing and guiding mechanism for jetting an abrasive stream toward said part of the work path in a direction that causes particles of the stream to strike and grain the concave portion of the curved plate; said advancing and guiding mechanism being connected for moving a received plate in small steps along the work path direction, the blasting elements are connected for graining only a portion of the plate's



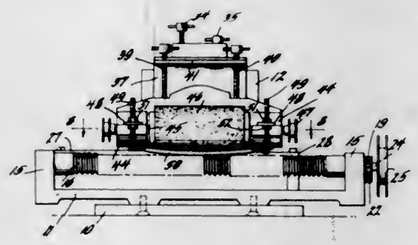
width transversely of the work path direction, the advancing and guiding mechanism is connected to the blasting elements for carrying these elements to and fro across the work path between advancing steps and also includes discharge elements connected for automatically carrying the plate out from said part of the work path.

2,612,732
APPARATUS FOR SUPPLYING FLUID-BORNE FLOW OF ABRASIVE MATERIAL
Eugene R. Ziegler, Spencerport, N. Y., assignor to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware
Application October 1, 1951, Serial No. 249,063
7 Claims. (Cl. 51—12)



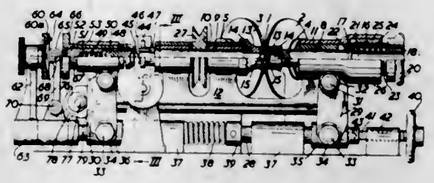
1. An apparatus for supplying a fluid-borne flow of abrasive material comprising a container for said material having an orifice adjacent its bottom, a mixing chamber below and communicating with said orifice and having an outlet, a source of fluid under pressure, a movable fluid conduit communicating with said source and extending through said chamber and said orifice adjacent the upper portion of said container, means providing a fluid duct from the upper portion of said container to said chamber, valve means connected with said conduit for movement thereby to control the flow of said material through said orifice and means for moving said conduit to stir said material in said orifice and container and to actuate said valve means to supply said material to said chamber for mixture with fluid from said duct and discharge through said chamber outlet.

2,612,733
GRINDING MACHINE
John Howard Twombly, Hill, N. H.; Florence D. Twombly executrix of said John Howard Twombly, deceased
Application March 23, 1951, Serial No. 217,269
4 Claims. (Cl. 51—79)



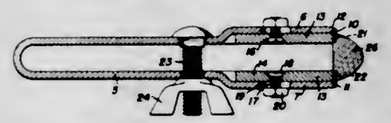
1. Rod grinding machine comprising a base, a vertical support secured on said base, a grinding wheel rotatably mounted on said support, a plurality of helically threaded parallel rolls rotatably supported below said grinding wheel and adjacent thereto, for advancing a succession of rods, disposed crosswise thereof, to and beneath said grinding wheel, a stationary friction member supported adjacent said wheel and said rolls for engaging rods advanced by said rolls and causing the same to rotate about their axes while passing beneath said wheel, means for rotating said wheel, and means for rotating said rolls.

2,612,734
APPARATUS FOR GRINDING THE BEVEL EDGE OF SPECTACLE AND OTHER LENSES
William Adams Taig, Farnham, England
Application November 5, 1949, Serial No. 125,741
In Great Britain October 25, 1948
11 Claims. (Cl. 51—101)



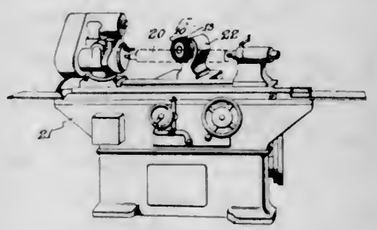
1. In an apparatus for grinding optical lenses to form a bevel edge therefor, a pair of grinding wheels angularly disposed to form by their joint peripheral surfaces a V grinding surface, means for rotating said grinding wheels, lens supporting means comprising a pair of co-axially aligned spindles biased toward one another to grip a lens therebetween, means for rotating said lens supporting means, means for pivotally mounting said lens supporting means, a profiling member having a peripheral cam surface mounted on the lens supporting means and rotatable therewith, an abutment fixedly mounted for cooperation with the peripheral surface of said cammed profiling member, said lens supporting means being rockable about the pivot therefor, toward and away from the grinding edges of said grinding wheels in accordance with the radius variation of the cammed profiling member, and a cam faced member rockably mounted on the pivot for, and disposed axially and laterally of, said lens supporting means, and means between and frictionally contacting said cam faced member and said lens supporting means and pivotally mounted for movement transversely of that of said cam faced member and said lens supporting means, said last named means being adapted, upon rocking of said lens supporting means, to impart an axial displacement thereto corresponding to the contouration of the face of the cam faced member.

2,612,735
GEM VISE
John J. Lea, Grenada, Calif.
Application December 10, 1951, Serial No. 260,916
5 Claims. (Cl. 51—229)



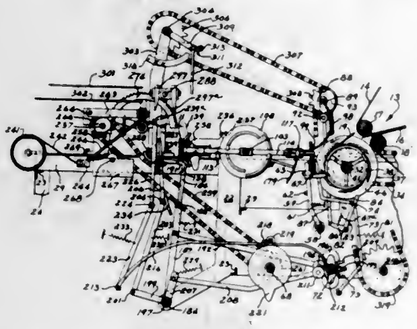
1. A hand vise comprising a resilient U-shaped metal handle, a pair of jaws at the ends of the handle having semi-ovate opposing faces adapted to grip correspondingly shaped work and jaw inserts adjustable forwardly and rearwardly in said opposing faces of the jaws to cover and uncover the semi-ovate opposing faces at the extremities of the jaws.

2,612,736
LAPPING METHOD AND APPARATUS
Thomas G. Lewis, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application February 8, 1952, Serial No. 270,544
7 Claims. (Cl. 51—289)



1. A method for the lapping of an article fabricated from a metal alloy or metal comprising forcing a diamond dust abrasive against said article in the presence of a liquid with a lignum vitae wood lap while maintaining a relative speed of translation between the surfaces of said lap and said article above about 5000 ft./min. and a loading pressure sufficient to char the surface of said lap in contact with said article.

2,612,737
METHOD AND APPARATUS FOR PACKAGING PAPER BAGS AND THE LIKE
Wagner P. Thielens, Tuscaloosa, Ala., assignor to Gulf States Paper Corporation, a corporation of Delaware
Application February 25, 1949, Serial No. 78,402
42 Claims. (Cl. 53—7)

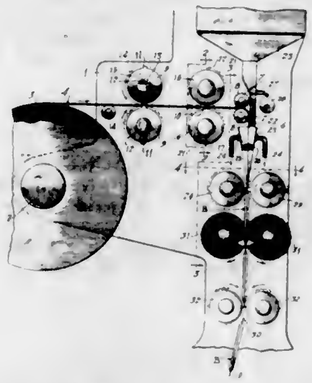


1. The method of assembling individual paper bags and the like into a package which comprises the steps of assembling the bags into groups at a common assembly station each containing an equal and predetermined number of bags, transferring the groups of bags one at a time to a common package assembly station and while in transit between said stations continuously rotating successively delivered groups in opposite directions whereby adjacent groups of bags are deposited on the assembly station with the bottoms of the bags thereof disposed at opposite ends of the package, feeding a length of a securing member over some of the groups of bags while on the assembly station prior to arrival of at least one other group at said assembly station, frictionally engaging the free end of said member between a pair of adjacent groups of bags, and winding the securing member about all the groups to secure the package.

4. In apparatus for forming paper bags and the like into packages, mechanism for assembling the individual bags into groups, a package assembly mechanism, mechanism operable to lift said groups bodily from the group assembly mechanism and deliver them onto the package assembly mechanism, the last named mechanism embodying means for rotating successively delivered groups in opposite directions while in transit whereby the bottoms of the bags of adjacent ones of said groups lie at opposite ends of the package, means for engaging one end of a securing member between some of said groups while on the assembly station, mechanism for raising the assembled groups upwardly with the end of said member therebetween, and other mechanism for receiving and rotating the assembled groups to wind the securing member thereabout.

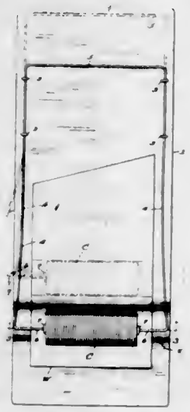
2,612,738
METHOD OF AND MACHINE FOR MAKING AND FILLING PACKAGES FOR FLUENT SUBSTANCES
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application May 21, 1948, Serial No. 28,495
14 Claims. (Cl. 53—10)

1. A method of filling packages, comprising feeding vertically longitudinally a tube of flexible packaging material having opposed wall portions, sealing the tube in a transverse zone, slitting at least a portion of the wall of the tube transversely above said transverse zone to form



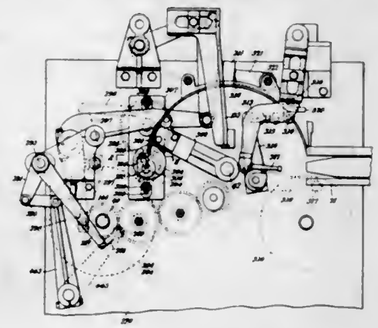
a filling opening while maintaining the integrity of the tube, depositing through said filling opening a substance to be packaged, and closing said opening to complete the package.

2,612,739
COIN WRAPPING AID
William A. Schwalbe, Seattle, Wash.
Application April 14, 1950, Serial No. 155,902
2 Claims. (Cl. 53—114)



1. A coin wrapping device comprising an elongated substantially rectangular base having a substantially flat upper surface, said base having a shallow transversely extending groove opening through its upper side adjacent one end thereof, guides mounted on the base remote from the groove and projecting upwardly from the base adjacent opposite sides thereof, spaced substantially parallel spring arms mounted in said guides to move longitudinally with relation to the base, inwardly extending fingers carried by the ends of the arms adjacent the groove, said fingers being adapted to engage opposite ends of a stack of coins seated in said groove and exert pressure on said coins, and a cross bar carried by the arms at the ends thereof remote from the fingers to cause said arms and fingers to move in unison as the stack of coins held in the groove between the fingers is rolled out of said groove and along the base.

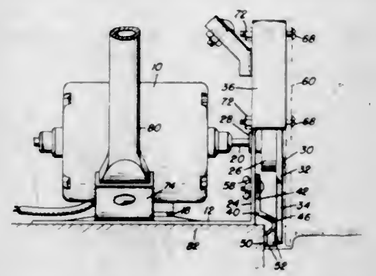
2,612,740
WRAPPING MACHINE
Alexander Russell, Leeds, England, assignor to The Forgrove Machinery Company Limited, Leeds, England, a company of Great Britain
Application April 3, 1951, Serial No. 219,015
In Great Britain April 3, 1950
3 Claims. (Cl. 53—130)



1. In a wrapping machine for wrapping stacks of loose biscuits and the like, the combination of a wrapping wheel mounted to rotate on a horizontal axis, said wrapping wheel having a plurality of biscuit-receiving pockets, each pocket comprising a fixed jaw extending radially in relation to the axis of rotation of said wheel and a movable jaw, means for intermittently rotating said wheel to cause said pockets to transport in succession to a folding station stacks of biscuits each with a wrapper folded in U-formation about it, a rotary folder at said folding station mounted for rotation about an axis parallel to the axis of the wrapping wheel, said rotary folder being located, on arrival of a pocket at said folding station, adjacent one jaw of the pocket and having a cleft facing the other jaw of said pocket, a pivotally mounted tucker blade, a cam, an adjustable linkage coupling said tucker blade to said cam, said cam being operative while a pocket is dwelling at said folding station to move said tucker blade into the cleft in said rotary folder, thereby pressing the projecting wings of the wrapper into said cleft, and thereafter to retract said tucker blade, a second cam, means connecting said second cam to said rotary folder and operable by said second cam, after retraction of said tucker blade, to rotate said rotary folder through substantially 180° and to return said rotary folder to its initial position after said wrapping wheel has moved to withdraw the wrapper from the cleft in said rotary folder, a plate supporting said rotary folder, a machine frame member, and means for effecting vertical adjustment of said plate on said frame member and thereby adjusting the position of the axis of rotation of said rotary folder in relation to the fixed jaw of the pocket dwelling at said folding station.

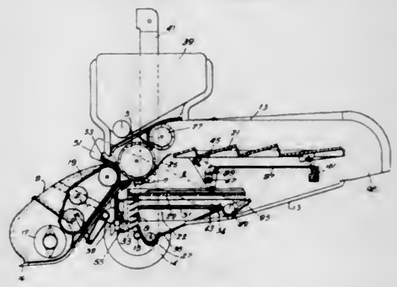
2,612,741
LAWN TRIMMER
George F. McKay, Brownwood, Tex.
Application November 9, 1950, Serial No. 194,919
4 Claims. (Cl. 56—25.4)

1. In a lawn trimmer the combination of a frame having a rectangular base and integral upstanding flange member extending at right angles thereto, a motor mounted on said rectangular base member, said flange member having an aperture therein, a shaft driven by said motor and extending through said aperture in said upstanding flange member, a rotary blade mounted on said shaft and parallel to said flange, and means for positioning said motor and blade for opera-



tion in either a horizontal or vertical plane, a grass-gatherer plate mounted adjacent said blade, said grass-gatherer plate extending beyond the end of said blade.

2,612,742
GRAIN COMBINE
Sherman C. Heth, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application December 5, 1947, Serial No. 789,814
2 Claims. (Cl. 56—124)

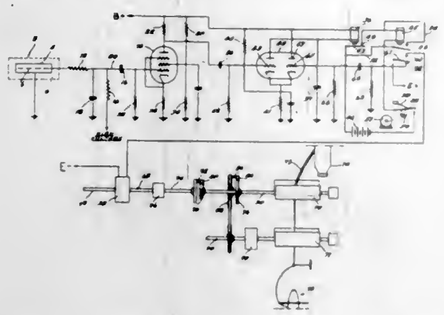


2. In a harvester of the type including a header portion and a thresher portion, the header portion leading directly into the thresher portion and having an upwardly and rearwardly inclined underside, an air supply for said thresher including an upright transverse wall spaced backwardly from said inclined underside of said header and having therein an opening juxtaposed to said inclined underside, an axial flow screw-type fan in said opening for delivering a stream of air rearwardly from said opening into said thresher and means for driving said fan, the space between said inclined underside and said wall being the sole means of access of air to said fan and tending to shield said fan from access to flying trash.

2,612,743
METHOD AND MEANS FOR CONTROL OF INDEPENDENTLY VARIABLE CHARACTERISTICS
Fred P. Strother, Old Greenwich, Conn., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust of New York
Application January 22, 1948, Serial No. 3,776
34 Claims. (Cl. 57—38)

1. The method of producing control signals which comprises utilizing a source of inherently random phenomena to create randomly occur-

ring pulses, controlling the initiation of a series of control signals by said pulses, separately creating a second series of control pulses and



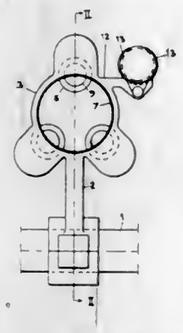
terminating said control signals in response to said second series of pulses to create control signals of random duration and of random occurrence.

2,612,744

DEVICE FOR CHANGING BOBBINS IN SPINNING MACHINES

Carl-Otto Christianson, Goteborg, Sweden

Application December 12, 1950, Serial No. 200,358
In Sweden August 9, 1949
13 Claims. (Cl. 57—52)



1. A device for changing bobbins on the spindles of spinning machines, comprising a sleeve, locking means in said sleeve, and means lifting and lowering said sleeve to telescope the same over a full bobbin on a spindle, said locking means being rolling elements constituting a one-way clutch constructed and arranged to permit said sleeve being moved downward over a full bobbin and to engage the winding on the bobbin upon upward movement of the sleeve to lift said full bobbin from its spindle during upward movement of the sleeve.

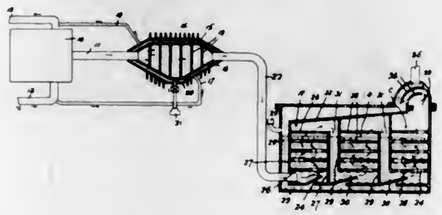
2,612,745

APPARATUS FOR ELIMINATING TOXIC GASES FROM EXHAUST FUMES

Luigi Vecchio, Syracuse, N. Y.

Application December 24, 1947, Serial No. 793,662
1 Claim. (Cl. 60—29)

An apparatus for treating gases from the exhaust of an internal combustion engine comprising: an external housing having a front end wall, a rear end wall, top, bottom and sides; a series of spaced chambers in the housing, each chamber including a frontal, vertical partition member and a plurality of horizontally disposed, spaced, apertured members, each of said chambers being spaced from the top and bottom of the housing, the first of said chambers having its frontal partition member spaced from the front end wall of the housing; an inlet port in the lower portion of each frontal partition member for admitting gas thereinto; a gas supply conduit communicating with the inlet port in the lower portion of the first of said chambers; a body of liquid within the housing and said chambers; a port in the bottom of each chamber for admitting liquid thereinto from within the housing; a gas dis-



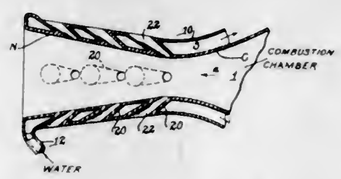
charge port in the top of the housing adjacent the rear end wall; a drain return plate within the upper part of the housing above said chambers, said plate being downwardly inclined toward and connected to the frontal partition of the first of said chambers; and a gas outlet port in said plate in communication with the last said chamber in said series, whereby gas admitted through the supply conduit will pass upwardly through each of said chambers and downwardly between the spaced chambers, and liquid entrained in gas discharged from the last chamber will drain along said return plate to the body of liquid in the housing.

2,612,746

NOZZLE STRUCTURE FOR EFFECTING STRIATED FLOW OF COMBUSTION GASES

Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York

Application March 4, 1948, Serial No. 13,054
2 Claims. (Cl. 60—35.6)



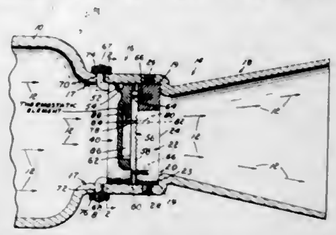
1. In combustion apparatus, a combustion chamber, and a discharge nozzle for said chamber, said nozzle being conical and rearwardly expanding and having a plurality of outwardly and rearwardly-directed gas-diverting ports axially distributed along the rearwardly expanding side wall of said nozzle outwardly of the inner restricted entrance of the nozzle and progressively spaced axially from the restricted entrance of said nozzle, a casing providing a jacket space about said nozzle, and in which the gas-diverting ports constitute a plurality of tubular members mounted in said nozzle and casing and extending outwardly and rearwardly through said jacket space.

2,612,747

ROCKET HAVING ADJUSTABLE DISCHARGE PASSAGE

Leslie A. Skinner, Berkeley, Calif., assignor to the United States of America as represented by the Secretary of War

Application January 25, 1945, Serial No. 574,598
3 Claims. (Cl. 60—35.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



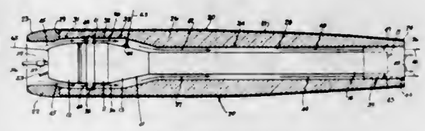
1. In a rocket or the like having a casing provided with a combustion chamber an outwardly divergent nozzle axially aligned with said combustion chamber and a restricted throat passage between the said combustion chamber and the said nozzle, rotatable means and fixed means in said throat passage, said rotatable means and said fixed means having registering apertures cooperating to vary the size of the said throat, engaging means on corresponding facing portion of said rotatable means and said fixed means, and yielding means cooperating with said rotatable means and said fixed means to urge the said engaging means apart.

2,612,748

PULSE JET MOUNT

William L. Tenney, Crystal Bay, Minn., and Charles B. Marks, Las Vegas, Nev.; said Marks assignor to said Tenney

Application April 6, 1946, Serial No. 660,118
5 Claims. (Cl. 60—35.6)



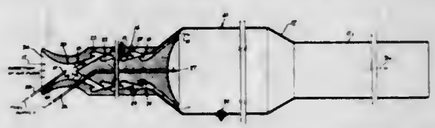
1. A jet propulsion device comprising a jet unit having a generally cylindrical combustion chamber, an air inlet in the front end of said chamber and a generally tubular exhaust tube extending in a direction opposite from the inlet end thereof, a plurality of spacing members mounted on said combustion chamber and extending outwardly therefrom, a plurality of spacing members supporting said exhaust tube adjacent the exhaust end thereof and extending outwardly therefrom, a generally tubular shell means surrounding said jet unit and being spaced therefrom by said spacing members with said spacing members adjacent the exhaust end of said tube being disposed within said shell and forming a slidable connection between said shell and said end of said tube, said shell means being open adjacent the inlet of said jet unit and open adjacent and extended beyond the exhaust tube and means for anchoring said shell means to said combustion chamber, said exhaust tube and said shell means being free to move longitudinally with respect to each other adjacent the exhaust end of said jet unit.

2,612,749

RESONANT PULSE JET DEVICE WITH RESTRICTED FLOW PASSAGE

William L. Tenney, Crystal Bay, Minn., and Charles B. Marks, Las Vegas, Nev.; said Marks assignor to said Tenney

Application April 11, 1946, Serial No. 661,363
5 Claims. (Cl. 60—35.6)



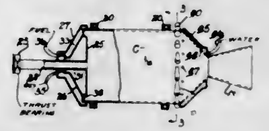
1. A resonant pulse jet device operable without mechanical valves comprising a combustion chamber having inlet and outlet passages at opposite ends thereof, an exhaust tube opening freely into said outlet passage and forming with said combustion chamber a system resonant in gases, means including said inlet passage for introducing air into said combustion chamber in conjunction with the pulsating action of said resonating system when said gases are traveling toward the exhaust end of said tube, means for introducing fuel to form a combustible mixture in said combustion chamber, said inlet passage having low flow resistance for flows in the direction toward said combustion chamber and relatively high flow resistance for flows in the direction away from said combustion chamber to provide for said introduction of air under said pulsating action and for restriction of flow from the combustion chamber reversely through said inlet passage when the gases in said resonating system are traveling in the reverse direction toward said inlet passage in order to accomplish automatic cyclic combustion, scavenging, and charging resulting from said resonating operation, and a baffle forming a solid wall at the end of said combustion chamber and located in intercepting relation in the direct path of flow through said inlet passage for reducing reverse flow of gases through said inlet passage under said resonating operation.

2,612,750

ROTATABLE COMBUSTION CHAMBER

Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York

Application July 26, 1946, Serial No. 686,389
5 Claims. (Cl 60—35.6)



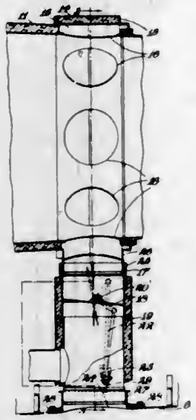
4. A rotatable combustion chamber comprising a rotatably mounted body, a volute encircling the rear portion of said combustion chamber, said chamber having port openings into said volute and said volute terminating in a tangentially disposed auxiliary nozzle operative to rotate said chamber, and a cooling jacket adjacent said volute having port openings into said combustion chamber adjacent said first-named port openings, whereby cooling liquid from said jacket provides vapor to cool said volute.

2,612,751

CONTROL MEANS FOR GAS-TURBINE OR JET ENGINES WHICH FACILITATES STARTING OF THE ENGINE

David Havelock Ballantyne, York, near Langho, near Blackburn, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application January 20, 1947, Serial No. 723,140
In Great Britain December 27, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires December 27, 1965
11 Claims. (Cl. 60—35.6)



1. In combination, a gas turbine engine, an exhaust pipe of considerable length for said engine, an exhaust outlet for said exhaust pipe, a second outlet for said exhaust pipe additional to said exhaust outlet, and valve means for said second outlet biassed to an open position and arranged to be closed by pressure developed in said exhaust pipe.

8. In combination, a gas turbine engine, a starter mechanism for said engine, means to control said starter mechanism, an exhaust pipe of considerable length for said engine, an exhaust outlet for said exhaust pipe, a second outlet for said exhaust pipe additional to said exhaust outlet, valve means for said second outlet, and valve control means actuated by said means to control said starter mechanism to open said valve when said mechanism is controlled to start the engine.

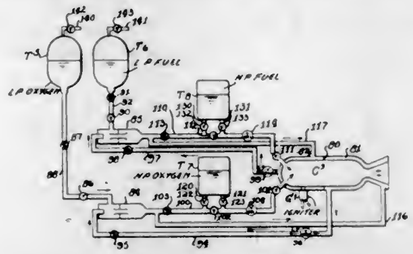
2,612,752

FEEDING APPARATUS, INCLUDING INJECTORS ADAPTED TO SUPPLY COMBUSTION LIQUIDS UNDER PRESSURE TO A COMBUSTION CHAMBER

Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York

Original application May 20, 1944, Serial No. 536,558, now Patent No. 2,558,483, dated June 26, 1951. Divided and this application December 6, 1949, Serial No. 131,461
2 Claims. (Cl. 60—39.14)

1. In a combustion apparatus comprising a combustion chamber and low pressure storage tanks for liquid fuel and liquid oxygen, in combination, injectors operative to feed said liquid fuel and liquid oxygen from said tanks to said combustion chamber at relatively higher pressures, and means to render said injectors operative, said means including two separate jacket spaces about said combustion chamber and connections through which each jacket space receives a portion of one of said liquids and delivers the vapor thereof to the corresponding injector under pressure and thereby renders said injector operative to feed its liquid to said combustion chamber at substantially more than storage tank pressure, together with separate high pressure storage tanks connected between each injector and the combustion chamber, and means to render said high pressure tanks selectively and immediately operative to inject the corresponding liquid to said chamber.

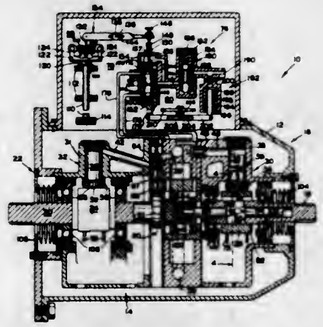


2,612,753

CONSTANT SPEED PUMP AND MOTOR HYDRAULIC TRANSMISSION

James Emil Bevins, Ramsey, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application November 7, 1947, Serial No. 784,708
6 Claims. (Cl. 60—53)



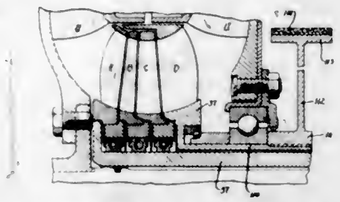
6. In hydraulic transmission means, the combination of a sump, a fluid operated motor including outlet means to the sump and having a shaft, a collector, a pump including a shaft and connected to pump fluid from the sump to the collector, means including valve means for controlling the delivery of the pump output from the pump to the collector, means including piston means to vary the output of the pump, radial valve means controlling the delivery of pump output from the collector to said motor for actuating the motor, radial valve actuating means including eccentric means carried by the motor shaft, centrifugal means responsive to motor shaft speed, pump pressure responsive means, and valve means controlled by joint operation of said centrifugal and pump pressure responsive means to actuate said piston means and thereby the output varying means in maintaining said output and said motor shaft speed at substantially constant values between zero load and given overload irrespective of variations in the speed of the pump shaft.

2,612,754

ROTARY HYDRAULIC TORQUE CONVERTER

John F. Swift, Royal Oak, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application July 26, 1946, Serial No. 686,529
4 Claims. (Cl. 60—54)



1. In a hydraulic torque converter, an impeller, a turbine, a plurality of reaction elements forming with said impeller and said turbine a fluid circuit, one-way brakes associated with certain of said reaction elements for permitting rotation of said reaction elements in one direction while preventing rotation in the opposite direction, and a selectively operated brake associated with another of said reaction elements for locking said last-mentioned element against rotation in both directions.

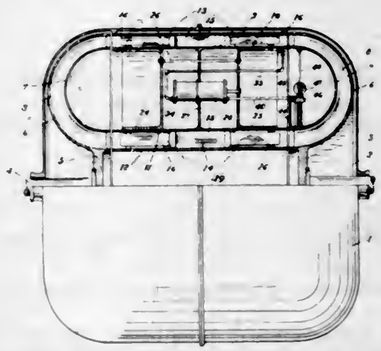
3. In a hydraulic converter, an impeller, a turbine, a plurality of adjacent reaction elements between the output side of said turbine and the input side of said impeller. and a plurality of blades carried by each of said reaction elements, the largest number of blades being carried by the reaction element immediately adjacent the output of said turbine with a progressively decreasing number of blades being carried by each succeeding reaction element, the number of blades carried by each reaction element being a prime number.

2,612,755

ROTARY HYDRAULIC TORQUE CONVERTER

Boleslaw Szczeniowski, West Montreal, Quebec, Canada

Application March 20, 1947, Serial No. 736,086
In Canada April 10, 1946
1 Claim. (Cl. 60—54)



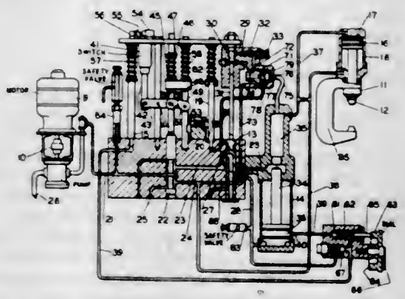
A rotary hydraulic torque converter including a housing; a drive shaft entering one end of said housing; an impeller rigidly secured to said drive shaft at a point within the housing; a driven shaft leaving the other end of said housing, said drive shaft and driven shafts being axially aligned; a turbine rigidly secured to said driven shaft, said impeller and turbine being of similar hemi-toroidal shape and longitudinally spaced apart within said housing; four sleeves rigidly mounted within said casing between said impeller and said turbine, said sleeves being arranged in pairs to form two annular passageways, one connecting the impeller outlet and the turbine inlet, the other connecting the turbine outlet and the impeller inlet; a plurality of blade elements mounted in each of said annular passageways, each of said blade elements having a rigid central portion fixed to the sleeves which form the passageways and flexible end portions; a web extending centrally between the pairs of sleeves which form the passageways; an hydraulic cylinder mounted by said web; a piston and a piston rod in said cylinder; a conduit for hydraulic fluid leading from said first mentioned passageway, at a point adjacent said impeller outlet, to said cylinder; a pair of cam sleeves slidably mounted between the sleeves forming said passageways, the cam sleeves being disposed on opposite sides of said web and the cylinder carried thereby, said cam sleeves being tied together so that movement imparted to one is also applied to the other, said piston rod being connected to one of said cam sleeves; cam slots in said cam sleeves; cams mounted in said sleeves forming said annular passageways, said cams being actuable by said cam slots to bend the flexible portions of said blades in said passageways whenever changes in the pressure of fluid directed to said cylinder imparts movement to said piston thereby moving said piston rod and said pair of cam sleeves, the pressure of said fluid being responsive to the speeds of said drive shaft and said driven shaft; and additional means responsive directly to the speed of said drive shaft for varying the influence upon said piston of pressure fluid fed through said conduit.

2,612,756

MEANS FOR PROTECTING HYDRAULIC PRESSURE RESPONSIVE DEVICES FROM THE EFFECTS OF FLUID SHOCK

Victor W. Peterson and Otto J. Maha, Chicago, Ill., assignors to Hannifin Corporation, Chicago, Ill., a corporation of Illinois

Application July 31, 1947, Serial No. 765,206
12 Claims. (Cl. 60—54.5)



10. In hydraulic pressure apparatus subjected to pressure shocks in excess of normal operating pressures during a portion of the cycle of operations, the combination comprising a work piston, a supply of hydraulic pressure, a pressure responsive device sensitive to said pressure shocks for controlling supply of pressure to said work piston and adapted to be actuated when operating pressures rise to a predetermined value in the apparatus, means for automatically closing communication of pressure to said pressure responsive device during the portion of the cycle of operation of said piston wherein pressure shocks occur to render said device insensitive and inoperative, and means for unblocking

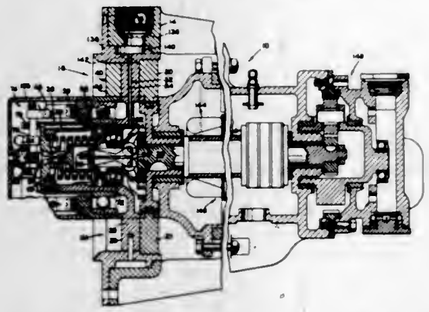
said communication during other portions of said cycle so that during said other portions of the cycle said device is operative to control supply of pressure to said work piston in response to operating pressures.

2,612,757

TURBINE APPARATUS DRIVEN BY EITHER OF TWO UNRELATED SOURCES OF AIR PRESSURE

Walter Dorwin Teague, Jr., Alpine, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application April 28, 1947, Serial No. 744,495
9 Claims. (Cl. 60—57)



5. In combination, a unit adapted to be carried by a movable apparatus comprising a vaned rotor, an element driven by said vaned rotor, said vaned rotor being rotatable in response to fluid pressure, a vaned stator positioned forwardly of said rotor and having spaced vanes, a throttle positioned forwardly of said stator and having spaced vanes, said throttle being mounted for rotary movement relative to said stator, the vanes of said throttle being so constructed and arranged as to open or close the space between the vanes of said stator upon the relative movement of the former to the latter, means for biasing said throttle to a first predetermined position whereby the spaces between the vanes of said stator are fully open, a source of fluid pressure, means for connecting said source of fluid pressure to said unit, nozzle means for directing said fluid pressure between the vanes of said stator and against said rotor, fluid pressure responsive means connected with and operative in response to fluid pressure from said pressure source to move said throttle to a second predetermined position whereby the spaces between the vanes of said rotor are fully closed, and governor means carried by said element and operatively connected to said throttle, said governor means being operative in response to the speed of said element to control the relative position of said throttle to said stator in response to the speed of said element when the fluid pressure responsive means is inoperative.

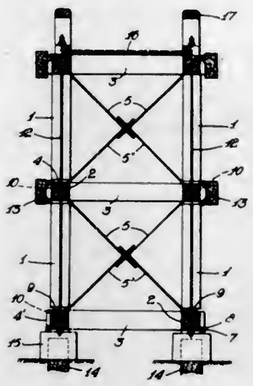
6. In a turbine driven selectively by either of two unrelated sources of fluid pressure, the combination comprising a first conduit for delivering fluid pressure from one of said sources to said turbine, means responsive to turbine speed for regulating the fluid pressure delivered from said first conduit to said turbine, a second conduit for delivering fluid from the other of said sources to said turbine, and fluid pressure responsive means operated by the fluid pressure from said other source for moving said regulating means to a position closing said first conduit upon delivery of fluid pressure from said other source through said second conduit to said turbine.

2,612,758

JETTY AND LIKE STRUCTURE

Carlos Wets and Andre Paduart, Uccle-Brussels, Belgium

Application June 15, 1946, Serial No. 677,006
In Belgium July 4, 1945
10 Claims. (Cl. 61—4)



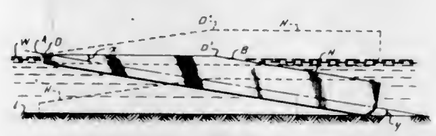
1. A concrete jetty and like structure, comprising a framework composed of pre-fabricated concrete beams and corner-bodies arranged to define adjoining parallelepipeds having their adjoining legs and corner-bodies in common, each set of adjacent ends of said beams freely bearing against one of said corner-bodies; elastic metal tie-rods extending diagonally in diagonal planes of said parallelepipeds, the two ends of each tie-rod being anchored to the corresponding diagonally opposed corner-bodies of the parallelepiped through which the tie-rod diagonally extends; said tie-rods having working tension applied thereto, thereby firmly pressing the beam-ends and corner bodies against each other while affording to the same the possibility of slightly tilting with relation to each other within the limits of the elasticity of the tie-rods under the action of horizontal stresses applied to the structure from the outside and means provided between adjacent faces of said beams and corner-bodies for preventing relative sliding of said faces.

2,612,759

SUBMERGIBLE DRILLING BARGE

John T. Hayward, Tulsa, Okla.

Application September 17, 1949, Serial No. 116,327
2 Claims. (Cl. 61—46)



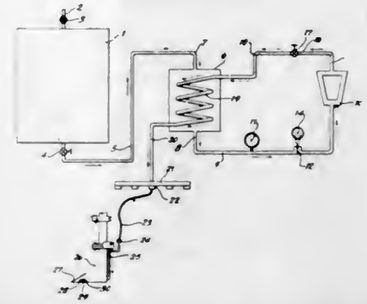
1. A submergible drilling barge, comprising, an enclosed generally rectangular hull having a substantially flat bottom, and having its upper side portions sloping upwardly from at least one end toward the mid-portion of the hull at an angle to the bottom determined by the length of the hull and the depth of a water body in which it is submerged, said angle being such that the hull volume at said one end which extends above the surface of the water body when the opposite end of the hull is resting on bottom approaches a minimum.

2,612,760

APPARATUS FOR METERING AND DISTRIBUTING ANHYDROUS AMMONIA IN A LIQUID STATE

Thomas Laffin Baggette, Leland, Miss., and Alton Russell Copithorne, Chelsea, Mass., assignors, by mesne assignments, to The Sperry Corporation, New York, N. Y., a corporation of Delaware

Application December 9, 1948, Serial No. 64,354
2 Claims. (Cl. 62—1)



1. In a portable system for controlling, metering, and distributing fluids subject to considerable agitation from boiling, a storage tank for storing fluids under pressure, a heat exchanger collecting tank connected with said storage tank, a discharge connection from said heat exchanger collecting tank, a flowmeter having an intake connection and a discharge connection, a connection between the discharge connection of said heat exchanger collecting tank and the intake connection of said flowmeter, temperature and pressure measuring devices located in said connection a throttle valve connected with the discharge connection of said flowmeter, a circulatory coil disposed in said heat exchanger collecting tank and connected at one end of said throttle valve and connected at the opposite end with a distributing system, said throttle valve operating to derive a low temperature gas from said fluid flow for passage through said coil and the absorption of heat from the fluid in said heat exchanger collecting tank for maintaining said fluid in a substantially constant fluid flow path with minimum agitation from boiling, and means for discharging the gas in needle-like streams to a surrounding medium which is at substantially atmospheric pressure.

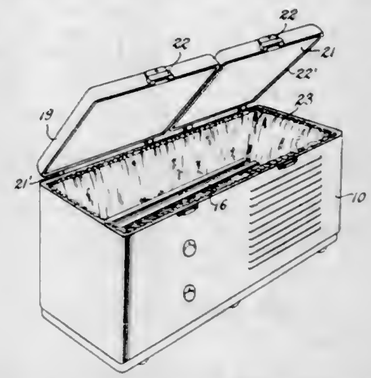
2,612,761

REFRIGERATED CASE

Raymond C. Hilker, Cincinnati, Ohio

Application June 19, 1950, Serial No. 168,896
1 Claim. (Cl. 62—116)

A refrigerated coffin for preserving a human corpse while exposed therein to view pending interment, which comprises an elongated, hollow, open-topped case having a bottom, and side and end walls, the case being adapted to receive a corpse therein, a platform mounted horizontally in said case in spaced relation to the bottom thereof for supporting the corpse in the case, said platform containing a plurality of spaced openings to permit passage of air through the platform, the edges of said platform terminating short of the walls of the case, whereby the platform is readily removable therefrom, refrigerant-evaporating elements in the walls of the case to refrigerate the interior thereof, cold air sinking down the sides of the case and circulating through the openings in the platform and around the corpse to refrigerate the corpse, there being a hollow compartment below the corpse-receiving case, a compressor and a condenser mounted in said compartment in series with the refrigerant-evaporating elements for compressing and condensing the refrigerant and for delivering the condensed refrigerant to the refrigerant-evaporating elements, and casters supporting the coffin whereby the refrigerated coffin can be moved about.

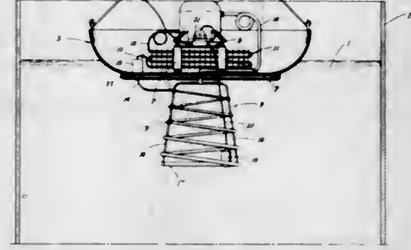


2,612,762

FLOATING COOLING DEVICE FOR BULK LIQUIDS

Paul Minghetti, Elk Grove, Calif.

Application April 19, 1949, Serial No. 88,258
4 Claims. (Cl. 62—~~158~~)



1. A cooling device for bulk liquids comprising the combination with a tank containing a liquid of an open topped float adapted to ride the liquid, a handle member on the float whereby it may be manually transported from point to point, a tubular heat exchange element mounted on and depending below the float, a motor driven compressor mounted on the float, means connecting the heat exchange unit in operative communication with the compressor, and a flexible electric cable connected in operative relation with the motor of the compressor.

2,612,763

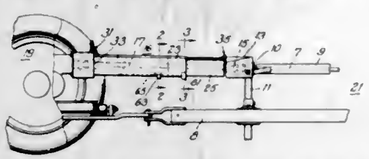
SAFETY SHIELD

Charles W. Hansen, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin

Application February 26, 1947, Serial No. 731,072
7 Claims. (Cl. 64—3)

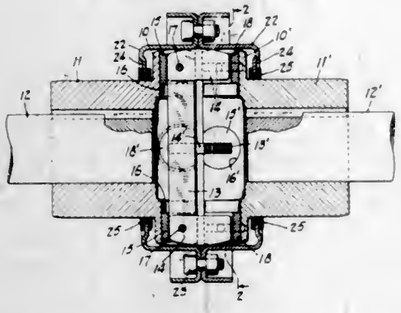
4. A safety shield for a power take-off shaft, which extends between two coupled vehicles, com-

prising, in combination, a permanent safety guard on each of said vehicles and an intermediate safety shield adapted to connect said guards, said intermediate shield including a pair of nested, generally semi-circular, open-ended sections adapted to extend around said power take-off shaft, the outer of said sections having a relatively wide, longitudinally extending rib which defines a channel, said rib being strengthened by a pair of longitudinally extending, stiffening members attached to said outer section which extend outwardly over said channel and which define a T shaped guide-way, the inner of said sections having a longitudinally extending, relatively narrow rib to which is attached a longi-



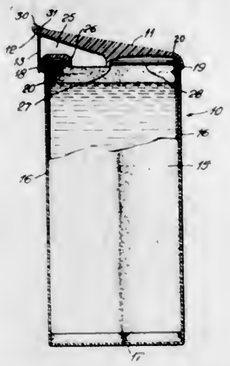
tudinally extending key, said key being proportioned so as to slidably engage said T shaped guideway in said outer section, thereby allowing extension of said shield in a longitudinal direction, a pair of stop tabs attached to each of said sections which are adapted to prevent the extension of said shield beyond a predetermined limit, one of said sections having means adapted to disengageably connect that section with the safety guard on one of said vehicles and hinge means for permanently connecting the other of said sections to the safety guard on the other of said vehicles, said hinge means including horizontal and vertical hinge pins so as to permit swivel movement of said intermediate safety shield in relation to the permanent safety guards.

2,612,764
COUPLING
Ralph Wiken, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application December 20, 1946, Serial No. 717,435
2 Claims. (Cl. 64—6)



1. In a power coupling the combination of driving and driven coupling heads, a bar carried by each of heads and rockable about a longitudinal axis disposed substantially diametrically of said head, said bars being angularly disposed and rockable relative to each other, a pair of separate substantially aligned slotted bushings carried by each of said heads and independently rockable therein about an axis disposed substantially diametrically of said head, and a pair of arms extending from the opposite ends of each of said bars and projecting into the bushings of a pair.

2,612,765
COMBINATION PITCHER AND CONTAINER FOR PAPER MILK CONTAINERS
Robert J. Gorey, Elmhurst, N. Y.
Application October 31, 1949, Serial No. 124,670
1 Claim. (Cl. 65—61)

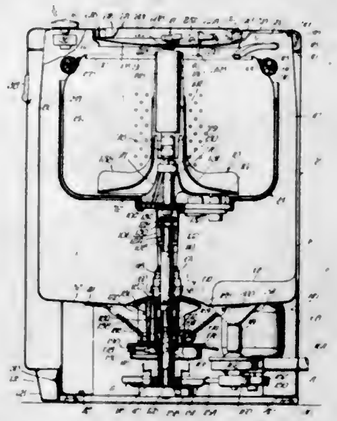


A combination pitcher and outer container for paper milk containers and the like, comprising an outer container which is of substantially rectangular shape to accommodate a correspondingly rectangular paper milk container having a hole in its top wall and an outwardly extending bead formed along the top of its side wall, a cover for said outer container having a spout and spout passageway with a downwardly extending neck formed therein for communication with the paper milk container through the opening in the top wall thereof, and having a hinged closure member at said spout and spout passageway, said cover being provided with a concave, downwardly extending flange, and said outer container being provided with a concavo-convex upwardly extending flange which is adapted to engage the downwardly extending flange of the cover to hold said cover in place on said outer container, said concavo-convex flange being also adapted to engage the bead on the paper milk container to hold said paper milk container in place in said outer container, the downwardly extending neck of the spout passageway projecting downwardly into the hole in the top wall of the paper milk container and engaging said top wall along the edge surrounding said hole to form a liquid-tight seal therewith.

2,612,766
WASHING MACHINE PROVIDED WITH INTERLOCKING LID MOUNTED VIBRATION CONTROL MEANS
Thomas R. Smith and Dudley P. Combs, Newton, Iowa, assignors to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application December 11, 1948, Serial No. 64,792
22 Claims. (Cl. 68—12)

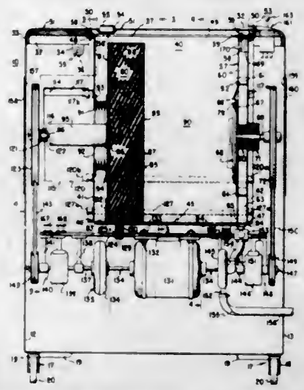
1. In a device for centrifuging material, the combination of a container adapted to receive material therein, means for rotating said container to extract liquid from the material contained therein, means providing a support for said container and to accommodate lateral movement thereof during rotation, a movable lid for said container, control means rendered inoperative upon movement of said lid to open position whereby said first named means is rendered inoperative to rotate said container, means operable when said lid is in its closed position for rendering said control means inoperative upon lateral

movement of said container beyond a predetermined limit, and means effective upon movement of said lid into its open position for automatical-



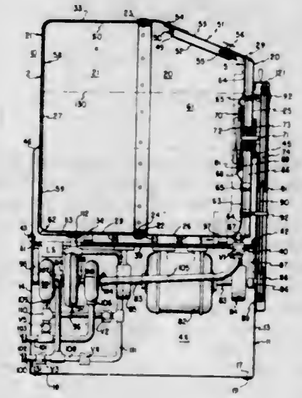
ly rendering said control means operative to control said means for rotating said container when said lid is again moved into its closed position.

2,612,767
CLOTHES-WASHING MACHINE
George P. Castner, Webster City, Iowa
Application October 18, 1949, Serial No. 122,118
12 Claims. (Cl. 68—21)



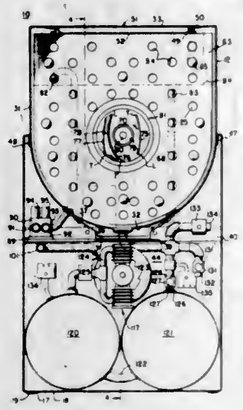
1. A clothes washing machine comprising a tub including wall structure and a pair of opposed walls, the space in said tub disposed between said walls constituting a chamber adapted to contain clothes and wash liquid, a dasher arranged in said chamber in a submerged position with respect to the wash liquid contained therein and adjacent to one of said walls and mounted thereon for rotation to effect a washing action upon the clothes contained in said chamber, means for mounting the other of said walls for movements with respect to said wall structure toward and away from said one wall, said other wall cooperating with said wall structure to confine the clothes in said chamber during operation of said dasher, movements of said other wall toward and away from said one wall accommodating adjustment of the volume of said chamber depending upon the load of the clothes to be washed, means for controlling the draining of the wash liquid from said chamber during movement of said other wall toward said one wall into close proximity with respect thereto to effect a squeezing action therebetween upon the clothes contained in said chamber in order to express the wash liquid therefrom, mechanism for selectively moving said other wall toward and away from said one wall, and means for limiting the force exerted by said mechanism upon said other wall in its movement toward said one wall in order to limit the squeezing action between said walls upon the clothes contained in said chamber.

2,612,768
CLOTHES-WASHING MACHINE WITH DIAPHRAGM SQUEEZER EXTRACTOR
George P. Castner, Webster City, Iowa
Application November 1, 1949, Serial No. 124,869
5 Claims. (Cl. 68—21)



1. A clothes washing machine comprising a stationary tub including a pair of opposed vertically disposed end walls and a horizontally disposed connecting tubular side wall, a vertically disposed flexible diaphragm arranged in said tub and secured about the perimeter thereof to an intermediate portion of said side wall, said diaphragm being movable in a horizontal direction from a concave position disposed adjacent to one end of said side wall and one of said end walls to a convex position disposed adjacent to the other end of said side wall and the other of said end walls, said diaphragm in its concave position cooperating with said other end of said side wall and said other end wall to define a compartment therebetween adapted to contain clothes and wash liquid, said other end of said side wall having an opening formed in the upper portion thereof above the level of the wash liquid contained in said compartment and rendering said compartment accessible from the exterior, a door mounted for movements between open and closed positions with respect to said opening, a vertically disposed substantially disk-like dasher arranged in said compartment in a submerged position with respect to the wash liquid contained therein and adjacent to said other end wall and mounted thereon for rotation in order to produce a washing action upon the clothes in said compartment, means for draining wash liquid from said compartment during movement of said diaphragm from its concave position into its convex position to produce a squeezing action upon the clothes in said compartment between said diaphragm and said dasher in order to express the wash liquid therefrom, and means for moving said diaphragm from its concave position into its convex position.

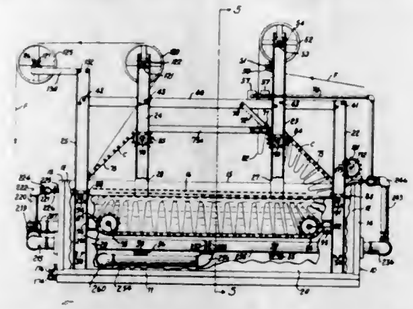
2,612,769
CLOTHES-WASHING MACHINE
George P. Castner, Webster City, Iowa
Application December 19, 1949, Serial No. 133,900
7 Claims. (Cl. 68—21)



1. In a clothes washing machine including a tub adapted to contain clothes and wash liquid, mechanism operative to produce a washing action upon the clothes in said tub, means for selectively controlling the draining of the wash liquid from said tub, a flexible diaphragm arranged in said tub and movable from a normal position into an operated position to produce a squeezing action upon the clothes in said tub in order to express the wash liquid therefrom, and means defining a chamber adjacent to said diaphragm and adapted to receive fluid under pressure in order to move said diaphragm from its normal position into its operated position; the combination comprising a storage tank, a compressor operative to compress air and to deliver it under pressure into said storage tank, an electric motor, first control means for selectively operating said mechanism from said motor, pressure responsive means controlled by the pressure of the air in said storage tank for selectively operating said compressor from said motor to maintain substantially a predetermined pressure of the air in said storage tank, valve means selectively operative to connect said chamber to said storage tank and to the atmosphere, and second control means for selectively operating said valve means, the volume of said storage tank and the volume of said chamber when said diaphragm is in its operated position being so correlated that said predetermined pressure of the air in said storage tank is substantially productive of a desired squeezing pressure of the air in said chamber when said chamber is connected to said storage tank.

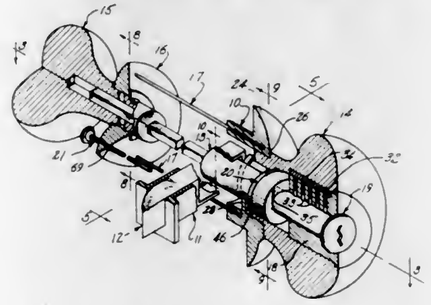
2,612,770
BOIL-OFF APPARATUS FOR TEXTILE FABRICS
Victor T. Fahringer, Clarksville, Va., assignor to Robbins Mills, Inc., New York, N. Y., a corporation of New York
Application January 31, 1951, Serial No. 208,763
8 Claims. (Cl. 68—157)

1. An improved apparatus for boiling-off textile fabrics comprising a boil-off tank adapted to contain a boil-off liquid, a horizontally disposed endless traveling conveyor having its lower reach disposed in the boil-off tank and submerged in the boil-off liquid and having its upper reach disposed above the liquid level, means for forming the fabric to be treated into depending loops on the upper reach of said conveyor at a point in advance of the point where the loops enter the boil-off liquid in said tank and means disposed below the lower reach of the



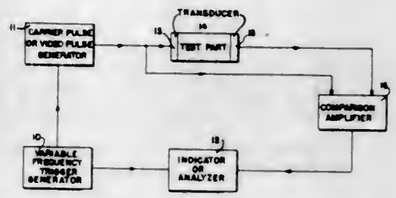
conveyor for directing jets of the boil-off liquid upwardly through the lower reach of the conveyor for inverting the loops upwardly as they are progressed through said liquid so as to insure uniform penetration of the fabric by the boil-off liquid.

2,612,771
DOOR LOCK
Ralph C. Clark, Willowbrook, Calif., assignor to Ray E. Clark, Willowbrook, Calif.
Application March 12, 1948, Serial No. 14,419
3 Claims. (Cl. 70—146)



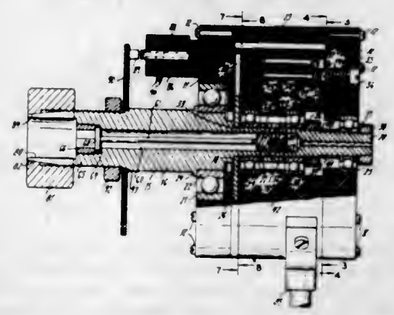
1. A door lock comprising an outer escutcheon structure having a centrally-apertured outer escutcheon plate formation thereon, a latch bolt housing operatively connected at its inner end to said structure, a latch bolt slidable in said housing and having a spindle-receiving opening adjacent the inner end thereof, a knob spindle extending through said outer escutcheon structure and said latch bolt operative upon rotation thereof to retract said latch bolt, an outer knob and an inner knob operatively associated with said knob spindle at corresponding ends thereof, a tumbler barrel and key cylinder in said outer knob, a key spindle having one end connected to said key cylinder and its opposite end extending through said latch bolt to retract the latter upon rotation of said key spindle, a formation on the outer end of said knob spindle locking said spindle and said outer knob against relative rotation, formations on said spindles maintaining said spindles, said outer escutcheon structure and said outer knob in operative association, an inner escutcheon plate surrounding said spindle at the inner end of said inner knob, means releasably attaching said inner escutcheon plate to said outer escutcheon structure, and locking means carried by said inner escutcheon plate and operatively engageable with said inner knob to restrain said knobs and said knob spindle against rotation to retract said latch bolt.

2,612,772
SUPERSONIC TEST DEVICE
Robert A. McConnell, Cambridge, Mass.
Application February 14, 1946, Serial No. 647,591
12 Claims. (Cl. 73—67)



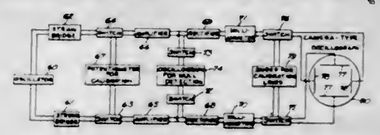
8. A supersonic test device comprising in combination, a supersonic pulse generating means, and a supersonic pulse receiving means arranged to receive a test part therebetween to conduct supersonic energy pulses from said generating means to said receiving means, a signal comparison means having first and second inputs thereto, said signal comparison means providing an output signal indicative of the instantaneous difference between the signals applied at the said two imputs, means coupling said first input to said pulse generating means, means coupling said second input to said pulse receiving means, and an indicator coupled to the output of said signal comparison means.

2,612,773
TORSIONAL VIBRATION PICKUP
Robert H. Beadle, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application January 7, 1950, Serial No. 137,348
7 Claims. (Cl. 73—68)



1. A pickup device for the purpose described, comprising concentrically related driven and inertia members, the inertia member being rotatably carried externally on the driven member and the driven member providing a bore axially therein, means for driving said inertia member from the driven member, including a relatively slender elongate torque rod extending axially in the bore of the driven member and secured at one end to the member, and means connecting the opposite end of said rod to the inertia member, said driving means permitting limited relative angular displacements of said members, and elements carried by said members cooperating to form a variable condenser, the capacitance of said condenser varying proportionately to the extent of relative angular displacements of said members.

2,612,774
METHOD AND APPARATUS FOR STRESS-STRAIN TESTING
Clarence M. Zener, Newton Center, and Delbert Van Winkle, Newtonville, Mass.
Original application June 3, 1944, Serial No. 538,674. Divided and this application August 30, 1945, Serial No. 613,686
4 Claims. (Cl. 73—89)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

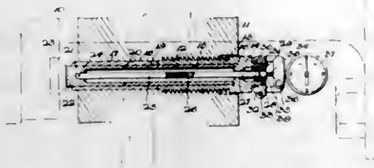


1. In a system for graphically indicating the instantaneous stress-strain characteristics of a test specimen during loading thereof, the combination of electrical means responsive to the stress produced by loading a test specimen, electrical means responsive to the resulting strain in the test specimen, means for generating voltages in said stress and strain responsive means respectively proportional to known values of stress and strain, means for dividing each of said voltages into a plurality of predetermined consecutive parts, means for amplifying said voltage divisions, a cathode ray oscillograph including a viewing screen for indicating thereon the position of an electron beam and a camera portion for simultaneously recording the deflection of said beam, a sweep circuit for moving said electron beam horizontally or vertically across said screen, means for successively applying said voltage divisions to said oscillograph to produce a plurality of intersecting horizontal and vertical traces on said screen for recording by said camera portion, said traces corresponding respectively to known values of stress and strain, switch means for rendering said voltage dividing means and said sweep circuit inoperative during loading of the test specimen, means for loading the test specimen up to and beyond the point of rupture thereof whereby corresponding voltage changes are respectively produced by said stress and strain responsive means, and means for combining at right angles the effects of said voltage changes to deflect said electron beam so as to produce the stress-strain curve of the test specimen, said oscillograph camera portion being arranged to superimpose said stress-strain curve on said coordinate record of said horizontal and vertical traces.

2,612,775
THRUST MEASURING DEVICE
Arthur B. Lakey, Philadelphia, Pa., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application December 19, 1946, Serial No. 717,124
6 Claims. (Cl. 73—140)

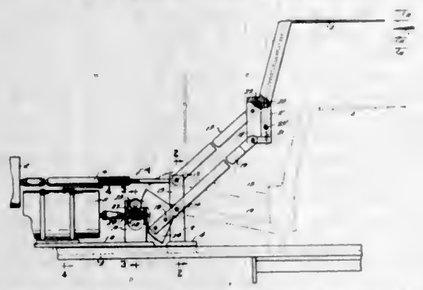
1. In a thrust measuring device for thrust bearings including at least one jackscrew for supporting a thrust sustaining member of the bearing, a hollow threaded shank for reception in the threaded aperture provided for the jackscrew, a sleeve in said shank constructed of ma-

terial which is compressible upon application of thrust pressure thereto, said shank having an abutment engaged by said compression sleeve, means for transmitting thrust pressure from a member of the bearing to said compression



sleeve, and means having an axially extending connection to said transmitting means for indicating the extent of movement of said transmitting means when said compression member is put under compression.

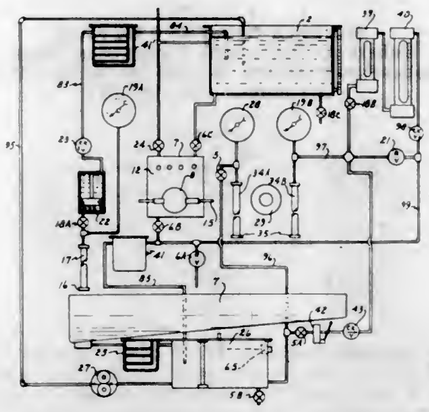
2,612,776
PROBE SUPPORTING APPARATUS FOR WIND TUNNELS
Harold W. Klas, Sylvania, Ohio, assignor to the United States of America as represented by the Secretary of the Air Force
Application October 17, 1951, Serial No. 251,656
6 Claims. (Cl. 73—147)



1. A probe supporting apparatus for wind tunnel testing of aerodynamic sections comprising, a base member extending longitudinally with respect to the wind tunnel, a parallelogram linkage having four links pivotally connected in opposite pairs, means adjustably supporting one link of one pair in an upright position on said base member, means for adjustably supporting one link of the other pair in any angular position over a limited range on both sides of a horizontal position, and means including the other link of said one pair for retaining a projecting probe on said parallelogram linkage.

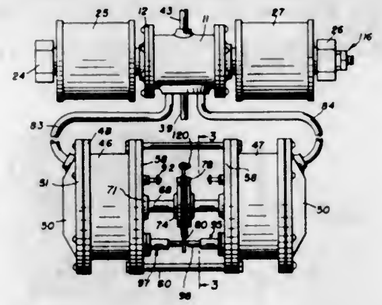
2,612,777
PUMP TESTING APPARATUS
Edward M. Greer, West Hempstead, N. Y., assignor to Greer Hydraulics, Inc., Brooklyn, N. Y.
Application July 22, 1946, Serial No. 685,555
1 Claim. (Cl. 73—168)

In a testing apparatus for fluid pumps, a first and second fluid reservoir and a sump, a fluid compartment to mount one type pump so that it is submerged in the fluid, said first reservoir positioned above said compartment, a fluid line and shut-off valve between said first reservoir and said compartment to fill said compartment, by gravity, a fluid line and filter connecting said compartment with said second reservoir, said sump connected to said second reservoir, said sump and second reservoir being low enough to empty said compartment, an external fluid pressure line to connect the pump under test to a shut-off valve, a flow meter connected to said valve, a pressure gauge also connected to said pressure line, a source of potential and



a switch to be connected to the motor of the pump under test, a voltmeter in said circuit, an ampere-hour meter in said circuit, means to close said circuit and operate said pump, and means to dump any excess fluid in said compartment into said sump and in turn into said second reservoir.

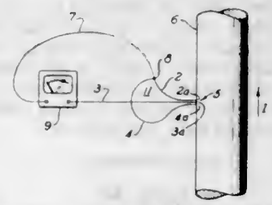
2,612,778
LIQUID FUEL MEASURING AND DELIVERY DEVICE
Guy R. Hubbard, Groton, Conn.
Application May 29, 1947, Serial No. 751,487
3 Claims. (Cl. 73—268)



1. In a fuel flow indicator, a housing, means forming a first and a second expansible chamber in said housing, a shaft connecting a part of said means forming each chamber so that expansion of one of the expansible chambers is reflected in contraction of the other chamber, a first and a second solenoid which includes a single core, a valve chamber member disposed around a part of said core, a fuel inlet element communicating with said valve chamber member, a fuel discharge member and ports in said valve chamber member, a conduit communicating said first chamber with one of the ports in said valve chamber member and a conduit communicating said second chamber with another of said ports in said valve chamber member, a valve disposed in said valve chamber member and fixed for

movement with said core, said valve being so arranged with respect to said ports and said discharge member that one of said ports communicates with the discharge member for fuel flow and upon movement of said core the other of the ports communicates with the discharge member, a switch carried by said housing and said shaft, and means operatively connected with said core and energized through said switch to prevent said core from coming to such a rest position that the valve does not communicate one of the ports with said discharge member.

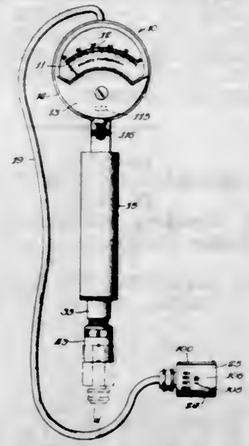
2,612,779
COMPENSATED THERMOCOUPLE
Stewart F. Mulford, Van Nuys, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application March 22, 1950, Serial No. 151,123
6 Claims. (Cl. 73—359)



1. A compensated thermocouple for measuring the temperature of a current carrying conductor including a meter and first and second dissimilar thermocouple wires connected to said meter and to each other at the hot juncture on the surface of said conductor, a third thermocouple wire of the same material as said first thermocouple wire connected to said hot juncture on the opposite side of said second wire from said first wire in the direction of current flow on said conductor and to said first wire at a predetermined point to form a balanced resistance bridge whereby a potential impressed between said thermocouple wires at said hot juncture is canceled.

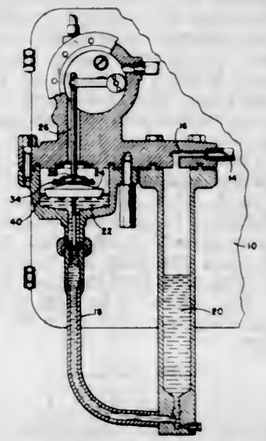
2,612,780
RESISTANCE THERMOMETER
Emil A. De Bruyne, Elmwood Park, Ill., assignor to Illinois Testing Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application July 19, 1947, Serial No. 762,070
5 Claims. (Cl. 73—362)

1. A portable resistance thermometer comprising, in combination, a tubular handle, an indicating instrument comprising an instrument case mounted on one end of said handle and having a resistance measuring circuit therein, a source of electric energy disposed within said tubular handle and connected in circuit with the resistance measuring circuit, a flexible lead conductor attached at one end to said instrument case and having a plurality of conductor wires leading from the attachment of the lead conductor into the instrument case and connected in circuit with the resistance measuring circuit within the case, a first plug-in connector mounted on the opposite end of said flexible lead conductor for connecting the resistance measuring circuit to an external temperature responsive resistance element, an end cap mounted on the opposite end of said handle, a fixed resistance non-responsive to temperature positioned within said end cap, and a second plug-in connector mounted on said end cap for connection with



said first plug-in connector, said second plug-in connector having contacts connected in circuit with said fixed resistance.

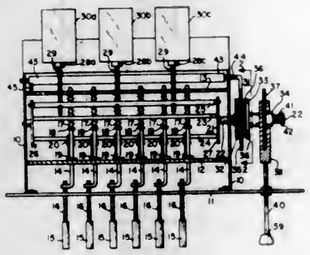
2,612,781
THERMORESPONSIVE COUPLING FOR DIFFERENTIAL PRESSURE REGISTERING MECHANISM
Howard J. Evans, Export, Pa., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 9, 1946, Serial No. 682,331
4 Claims. (Cl. 73—393)



1. In an orifice type fluid meter having a casing containing a liquid column subject at each end to different fluid pressures; means responsive to movements of said liquid column to transmit movement to a differential pressure registering instrument, said means comprising a member buoyantly supported by one end of the liquid column, a motion transmitting member, a thermo-responsive coupling element having a fixed connection to one of said members, and means slidably connecting said element to the other of said members and cooperating with said element upon movement of the liquid column in

response to differential pressures to impart a straight line axial movement to said motion transmitting member, said element in response to thermal variations slidably moving relative to said connecting means to prevent the transmission of movement by the coupling element to said motion transmitting member upon variation in volume of the liquid column resulting from ambient temperature changes.

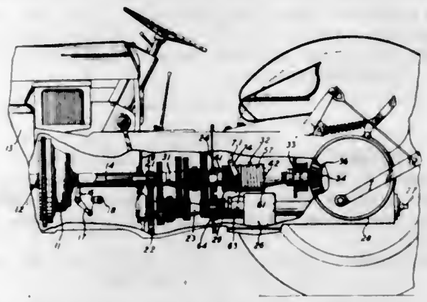
2,612,782
DRIVING MECHANISM FOR PUSH-BUTTON TUNERS
Clarence W. Wandrey, Wheaton, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application August 23, 1950, Serial No. 181,064
4 Claims. (Cl. 74—10.33)



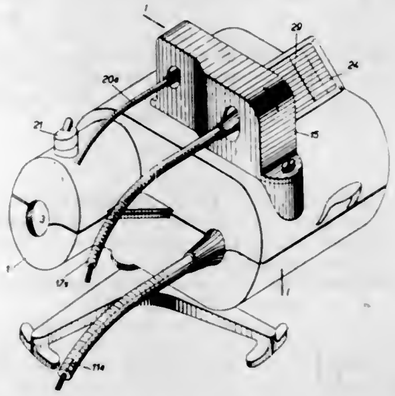
1. A tuning device for a radio receiver and the like comprising: a supporting frame; a series of push rods slidably supported by said frame; an actuating shaft rotatably supported by said frame; a carriage secured to said shaft for selective engagement and actuation by said push-rods to selected angular positions; a first bevel-gear mounted on said actuating shaft; a second bevel gear spaced from and supported coaxially with said first gear for rotation relative to said shaft; a locking member interposed between said gears; at least one planetary gear rotatably supported by said locking member in mechanical driving engagement with said first and second gears; a driving mechanism for rotating said second gear; a stop member supported from said frame for movement from a first position in which the stop member engages said locking member and completes a driving connection from said driving mechanism to said actuating shaft to a second position in which the stop member releases said locking member for rotation relative to said shaft; and a further member fixed to said stop member and operated by said push-rods for actuating said stop member from its first to its second position.

2,612,783
TRACTOR SPEED TRANSMISSION
Harold L. Brock, Detroit, and Leon G. Smith, Royal Oak, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application February 18, 1950, Serial No. 145,028
6 Claims. (Cl. 74—15.86)

1. In an agricultural tractor, a power plant, a variable speed transmission having axially aligned input and output shafts and a radially spaced countershaft constantly driven from said input shaft, an auxiliary power shaft driven by said countershaft, a main clutch between said power plant and the input shaft of said transmission, traction wheels for said tractor, an auxiliary clutch between the output shaft of said transmission and said traction wheels, a throw-out collar for said auxiliary clutch, a manually operated control lever, linkage interconnecting said control lever with said clutch throwout collar, a pawl and a ratchet lever having teeth adapted to be engaged by said pawl and cooperating with said control lever to prevent movement of said control lever to disengage said auxiliary clutch, a clutch pedal for operating said main clutch, and means inter-connecting said clutch pedal and said ratchet and pawl mechanism to release the engagement between said pawl and said ratchet teeth when said clutch pedal is operated to disengage said main clutch.

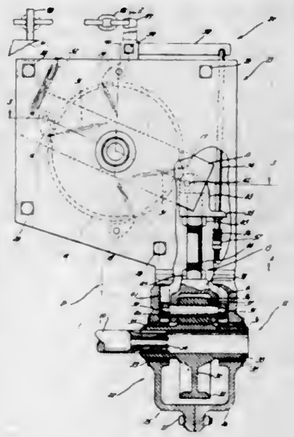


2,612,784
PORTABLE FILING, MILLING, AND GRINDING MACHINE
Karel Patzak, Prague, Czechoslovakia
Application December 18, 1947, Serial No. 792,534
In Czechoslovakia September 9, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 9, 1966
6 Claims. (Cl. 74—16)



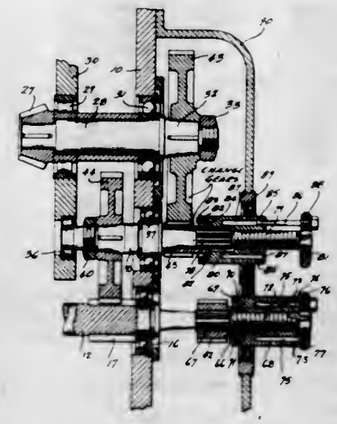
1. A portable drive unit for driving shafts bearing tools for making an article, comprising in combination, a casing; an electric motor arranged in said casing and having a motor shaft arranged in said casing; a bevelled roller secured to said motor shaft; a first tool bearing shaft rotatably arranged in said casing parallel to said motor shaft; a bevelled roller secured to said first tool bearing shaft and having a slope being equal and opposite to the slope of said bevelled roller secured to said motor shaft so as to leave a space having a constant width between said bevelled rollers; a bolt supported by said casing in the central line of the space between said bevelled rollers; a slide wheel arranged on said bolt and engaging said bevelled rollers so as to transfer the rotation from said motor shaft to said first tool bearing shaft; means for shifting said slide wheel along said bolt so as to vary the gear ratio between said motor shaft and said first tool bearing shaft; a second tool bearing shaft rotatably arranged in said casing; and means arranged in said casing for driving said second tool bearing shaft by said first tool bearing shaft at a constant high speed ratio.

2,612,785
VARIABLE-SPEED TRANSMISSION
Howard E. Wiltsey, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application June 28, 1950, Serial No. 170,870
4 Claims. (Cl. 74—124)



1. In a variable speed actuating mechanism for a wagon unloader having a driven shaft, the combination of a driving shaft spaced from and transverse to said driven shaft, a cam on said driving shaft and rotatable therewith in a plane substantially normal to the axis of said driving shaft, a housing enclosing said driving shaft and cam, a cam follower in said housing and engaged with said cam and including a yoke member, a ratchet wheel on said driven shaft, a rocking lever swingably associated with said ratchet wheel and aligned in a plane parallel to the longitudinal plane of said driving shaft, a rigid member extending from the yoke and pivotally secured to the lever for rocking the lever in response to to-and-fro movement of the yoke and whereby said yoke is given a rocking movement in the direction of the axis of said driving shaft, a pawl on said lever engaged with the ratchet wheel in position to rotate it upon rocking of said lever in one direction, said housing providing spaced guiding channels extending away from said driving shaft in a direction substantially normal to said driving shaft and in the direction of the plane thereof, guide engaging elements on said follower engaged with said channels for guiding said follower in substantially parallel movement as related to the plane of said driving shaft, a cam following roller journaled in said yoke and engaged with said cam, and said roller and said cam having complementary surfaces for effective actuating contact therebetween during such rocking of said yoke.

2,612,786
TRANSMISSION
Walter P. Schmitter, Wauwatosa, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application March 13, 1950, Serial No. 149,225
13 Claims. (Cl. 74—325)

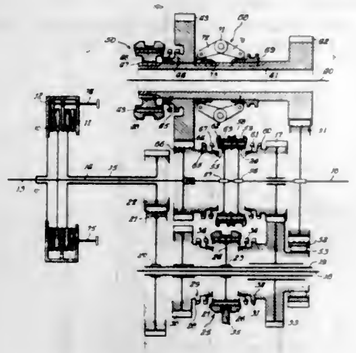


1. In a transmission mechanism, the combination of a housing, a driven shaft journalled in said housing, a countershaft journalled in said housing and having a reducing gear drive connection with said driven shaft and with its axis at right angles to that of said driven shaft, a drive shaft journalled in said housing parallel to said countershaft and at one side of said driven shaft, a second countershaft journalled in said housing parallel to said drive shaft, said drive shaft and said countershafts having parts extended from said housing, intermeshable gears for said countershafts and said drive shaft, the gear on said second countershaft and the gear on said drive shaft being separately shiftable into mesh with the gear on said first countershaft, means for shifting the gear on said drive shaft into meshing engagement with the gear on said first countershaft for a second reduction, means for shifting the gear on said second countershaft into meshing engagement with the gear on said first countershaft for a third reduction, there being a gear on said drive shaft constantly meshing with a gear on said countershaft and operative for said third reduction, and means for holding each shiftable gear in intermeshing relation with its associated gear.

2,612,787
DOUBLE COUNTERSHAFT TRANSMISSION
Harold T. Youngren, Birmingham, Mich., and Sidney V. Hettinger, Jr., Westchester, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application July 22, 1950, Serial No. 175,346
12 Claims. (Cl. 74—330)

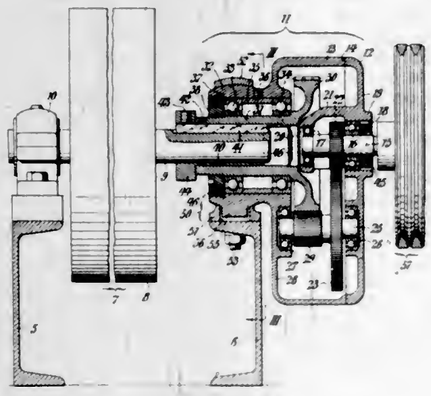
1. In a transmission, the combination of a drive shaft, a driven shaft, and means for providing a plurality of different gear trains including a reverse gear train between said shafts, a first one of said gear trains including a first friction clutch, a first positive clutch and a one-way engaging means for rendering said first gear train effective, a second one of said gear trains including a second friction clutch and a second positive clutch for rendering said second gear train effective, a

third one of said gear trains including said first friction clutch, said first positive clutch and a third positive clutch for rendering said third gear



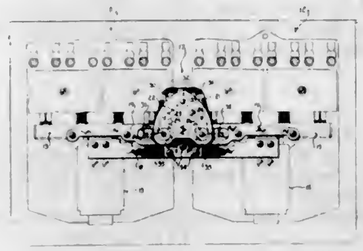
train effective, said reverse train including said first friction clutch, said second positive clutch and a fourth positive clutch for rendering said reverse gear train effective.

2,612,788
COMBINED SHAFT JOURNAL AND DRIVE UNIT
Joseph Dennis Christian, San Francisco, Calif., assignor to The American Pulley Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 22, 1951, Serial No. 207,170
6 Claims. (Cl. 74—421)



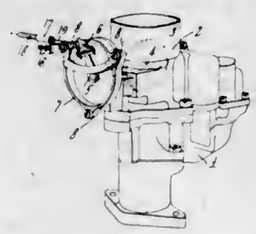
1. In a combined substitute shaft bearing and drive unit, a powered speed change device having a casing with a lateral projection at one side thereof, an output shaft extending through the projection for telescopic connection to one end of the shaft of a machine to be driven, a pair of longitudinally-spaced bearings for said output shaft within said projection; a powered input shaft extending through another part of the casing, and speed change gear connections within the casing between said output and input shafts; and a bracket with means for securing it to a frame portion of the machine in which the lateral projection on the casing is engaged for support of the unit cantilever fashion with capacity for limited universal movement of the unit incident to flexure of the driven shaft.

2,612,789
INTERLOCKED ELECTRIC SWITCH
Josef Bierenfeld, Milwaukee, Wis., assignor to Square D Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 9, 1950, Serial No. 137,590
9 Claims. (Cl. 74—483)



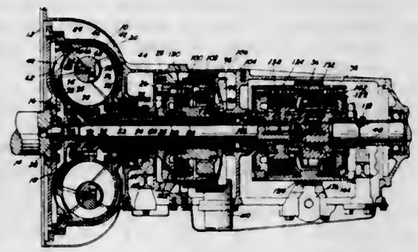
1. An interlock for preventing simultaneous operation of a pair of independent electromagnetic switches by requiring substantially complete opening of a closed switch before closure of the open switch can commence, comprising: cooperating movable and stationary elements; means on the stationary element for mounting the interlock in fixed relation to two switches to be interlocked; pivot forming parts on said elements cooperating with one another to provide spaced transient pivotal connections between said elements about either of which the movable element may be rocked from a neutral position to one of two lock-out positions; cooperating means on said elements separate from the pivot forming parts thereon for constraining the movable element when in either of its lock-out positions to retrograde rocking movement toward its neutral position, said cooperating means comprising a roller on one of the elements and a track on the other of said elements positioned to be engaged by the roller upon rocking of the movable element about either pivotal connection to a lock-out position to preclude all but returning motion of the movable element to a neutral position before it can be rocked about the other of its pivotal connections; and means on the movable element providing for connecting the same with each of two switches to be interlocked.

2,612,790
CARBURETOR CHOKE MECHANISM
Harvey G. Moore, Rochester, N. Y., assignor to Alex D. Karpoff, Boston, Mass., doing business as American Muffler Co.
Application July 28, 1948, Serial No. 41,063
1 Claim. (Cl. 74—501)



The combination with a carbureter, a rock shaft therein and extending outwardly thereof and provided with a crank arm at its outer end having an outwardly turned end, said carbureter having a wall portion having an outer face provided with spaced screw holes, of a frame member having holes spaced to mate said screw holes, screws securing said member to said wall portion, a pull wire casing, a clamp for one end of said casing carried by said frame member, a pull wire axially movable within said casing, a perforated post, an element on which said post is pivotally mounted, means for clamping said element to the outwardly turned end of said crank arm, means clamping the inner end portion of said pull wire within the perforation of said post, and manually operated means connected to the opposite end portion of said pull wire.

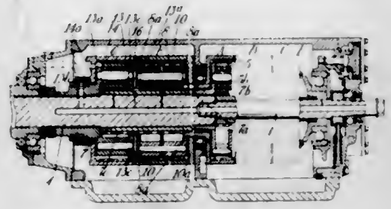
2,612,791
TRANSMISSION
Raymond J. Miller, Curt H. Garmager, and Gordon E. Whelpley, Detroit, Mich., assignors to Bendix Aviation Corporation, Detroit, Mich., a corporation of Delaware
Application November 28, 1947, Serial No. 788,388
8 Claims. (Cl. 74—677)



1. A variable speed transmission comprising an input structure, driving, driven and reaction elements cooperating with one another and providing a vortex chamber for the circulation of fluid, a power splitting differential connected to the input structure, means directly connecting the power splitting differential to the driven element, means connecting the power splitting differential to the driving element for the transmission of power through the medium of the fluid in the vortex chamber to the driven element. means for locking the power splitting differential for operation of the driving and driven elements as a single unit, a brake for the power splitting differential for holding the turbine and utilizing the reaction element as a driven element for effecting reverse drive, a driving shaft connected to the driven element, a driven shaft, power multiplying gear connected between the driving and driven shafts, means for connecting the reaction element to the power multiplying gear, a brake for holding one element of the power multiplying gear to effect torque multiplication and means for locking the power multiplying gear for rotation as a single unit.

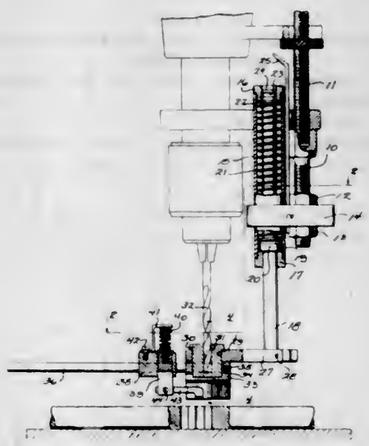
2,612,792
EPICYCLIC GEAR
Andrew Gordon Wilson and Albert A. Miller, Coventry, England, assignors to Self-Changing Gear Company Limited, Coventry, England
Application January 26, 1949, Serial No. 72,906
In Great Britain January 28, 1948
16 Claims. (Cl. 74—759)

1. An epicyclic two-speed gear unit for affording an exceptionally low forward speed ratio or an emergency low gear, including a first speed train having a sun wheel on the input shaft, planetary pinions carried by a cage on the output shaft, and a controllable reaction annulus, said train being compounded with a second and lower speed forward train comprising three elements namely, a controllable reaction annulus, a sun wheel, and a planet cage carrying planetary units each of which includes a pair of inter-



meshed planet pinions, the arrangement being such that one of the latter two elements is rotationally connected to the reaction annulus of the first speed train and the other element is rotationally connected to the planet cage of the first speed train.

2,612,793
HOLE SPACING AND CENTERING DEVICE
Henry Timpner, Milwaukee, Wis., assignor of one-half to Robert F. Krainz, Milwaukee, Wis.
Application November 17, 1950, Serial No. 196,298
4 Claims. (Cl. 77—55)

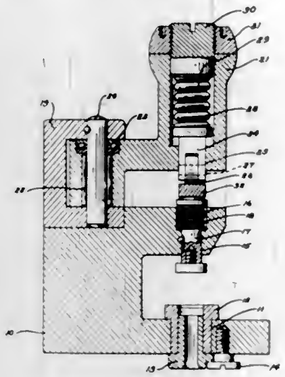


1. In combination with a bushing, a block centrally releasably attached thereunder, centering means embodied in the work-facing lower surfaces of said block, lateral guide means fixed to said block, a spacer block thereon, a spacer finger yieldably fixed to said spacer block adapted to successively engage holes to be drilled, and means for releasably fixing said spacer block on said guide means.

2,612,794
CLAMP
Edwin Pleasance, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application September 11, 1947, Serial No. 773,353
2 Claims. (Cl. 77—62)

1. In a clamping mechanism for the repetitious clamping of similar work pieces, a clamp-

ing member spring biased into the released position, a permanently energized clamping spring, a rocking bar pivoted intermediate its ends for applying the effort of the clamping spring to the clamping member, and means movable along said rocking bar from a position adjacent the



clamping member to a position on the opposite side of the pivot for transferring the effort of the energized clamping spring from the clamping member to another portion of the clamping mechanism without deenergizing the clamping spring.

2,612,795

APPARATUS FOR MANUFACTURING SLIDE FASTENERS

Henry Kaufmann, New York, N. Y., assignor to Star Fastener, Inc., New York, N. Y., a corporation of New York

Application June 2, 1949, Serial No. 96,649
1 Claim. (Cl. 78—13)

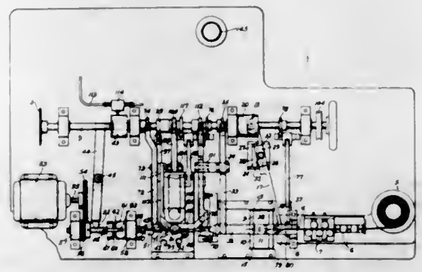
An apparatus for forming separable fastener elements from strip stock having a flat base and a raised portion comprising a press including male and female dies, and a feeding mechanism for feeding said strip stock to said male and female dies, said male die being substantially rectangular in shape across its face and disposed transversely of said strip stock to form a substantially rectangular cavity in said flat base, said female die being complementary to said male die to form a complementary projection in said raised portion of said strip stock opposite said cavity, said feeding mechanism comprising coacting rollers adapted to frictionally engage said strip stock, one of said rollers being provided with a peripheral groove proportioned to receive therethrough said raised portion of said strip stock.

2,612,796

AUTOMATIC BUTTON-PINNING MACHINE

Theron E. Bastian, Irondequoit, and John A. Hellaby and Edward A. Strollis, Rochester, N. Y., assignors to Bastian Bros. Co., Rochester, N. Y., a corporation of New York

Application February 17, 1950, Serial No. 144,752
13 Claims. (Cl. 79—3)



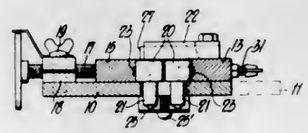
1. An automatic button-pinning machine comprising a cam-shaft, feeding mechanism operated by said cam-shaft acting to feed a predetermined length of wire to a given position, pointing mechanism controlled by said cam-shaft acting to point the end of the wire, cutting mechanism arranged between the feeding mechanism and pointing mechanism and controlled by said cam-shaft acting to cut the predetermined length of wire, and forming mechanism arranged between the cutting mechanism and pointing mechanism and controlled by said cam-shaft, said forming mechanism acting to form the wire with a button-engaging portion and to engage said portion inside a flange of a button, said cutting mechanism and pointing mechanism being located in proximity to and on opposite sides of the forming mechanism whereby a length of wire is engaged by the pointing mechanism, cutting mechanism, and forming mechanism respectively while in one position.

2,612,797

FINAL-SHAPING ATTACHMENT FOR WIRE-DRAWING MACHINES

Earl W. Johnston, Worcester, Mass., assignor to United States Steel Company, a corporation of New Jersey

Application April 4, 1950, Serial No. 153,927
4 Claims. (Cl. 80—40)



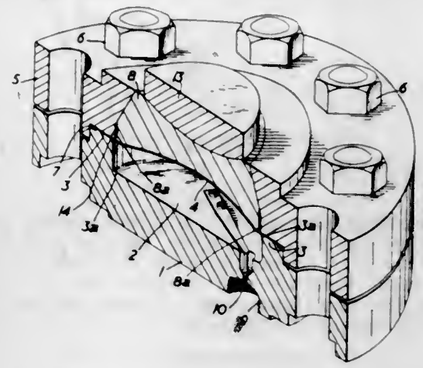
1. A wire-finishing device comprising a supporting plate, a pair of spaced blocks mounted on said plate for movement relative to each other, said blocks having semi-cylindrical recesses in their adjacent edges located in opposed relation, cylindrical rolls of substantially the same radius as the recesses loosely disposed therein and having sliding bearing engagement therewith, means for adjusting said blocks to bring said rolls into properly spaced relation and shiftable means retaining said rolls in said recesses, said rolls having wire-engaging perimeters intermediate their ends and said recesses being relieved in the zone of said perimeters.

2,612,798

BREAKER BLOCK FOR ROLLING MILLS

William Heap Bailey, London, England, assignor to The British Iron and Steel Research Association, London, England, a British company

Application October 28, 1949, Serial No. 124,184
In Great Britain October 28, 1948
6 Claims. (Cl. 80—57)



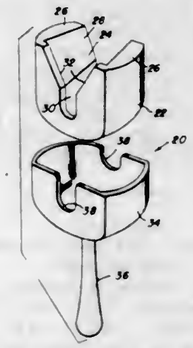
1. A breaker block comprising a body member having a chamber therein, a diaphragm extending over the chamber, means including an annular member secured to said body member to clamp said diaphragm to said body member to provide a hermetic seal for said chamber, a load receiving member within the bore of said annular member and seated upon said diaphragm, the diaphragm having a shear resistance equal only to a minor fraction of the load to be carried by said load receiving member, said body member being provided with an opening for the introduction of a pressure fluid into said chamber, and means for closing said opening to prevent the escape of the pressure fluid from said chamber, whereby the load which can be applied between the load receiving member and the body member is limited to the sum of the fluid load on the inner face of the diaphragm and the load required to shear the diaphragm.

2,612,799

MAGNETIZED VALVE KEEPER TOOL

George J. Gilbert, Lakeville, Minn.

Application July 30, 1948, Serial No. 41,579
2 Claims. (Cl. 81—3)



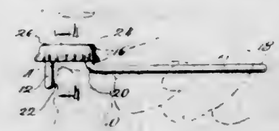
1. A tool for installing valve keepers comprising a U-shaped member having magnetic characteristics, said member including a web portion and leg portions, the outer ends of said leg portions having flat surfaces diverging outwardly relative to a plane disposed medially between said leg portions and also diverging relative to the longitudinal axis of said member, inwardly projecting flanges on said surfaces adjacent the longitudinally divergent end thereof, said flanges constituting keeper rests.

2,612,800

FULCRUM TYPE BOTTLE CAP LIFTER

Ray C. Dreier, Chicago, Ill., assignor to Vaughan Mfg. Co., Chicago, Ill., a corporation of Illinois

Application March 9, 1946, Serial No. 653,253
8 Claims. (Cl. 81—3.46)



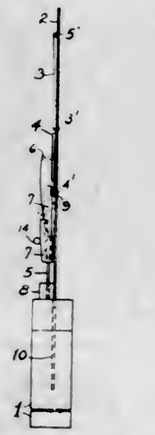
1. A bottle cap remover comprising a body portion having a first part depending therefrom to fulcrum on a bottle cap, a second part spaced from the first and depending from said body portion to extend past the cap and adjacent its periphery, said second part being formed to engage under the edge of the flange of said cap, a handle extending from said body in a direction substantially parallel to the plane of the top of said cap, and a bottle cap crimped over the body portion and providing a reinforcement for the body portion and a smooth bearing surface of enlarged area relative to the adjacent portions of the cap remover for engagement by the thumb of the user.

2,612,801

WATCHMAKER'S ROLLER TABLE JEWEL PIN SETTING JIG

Joseph Aiello, Pittsburgh, Pa.; Lena Titus, executrix of said Joseph Aiello, deceased

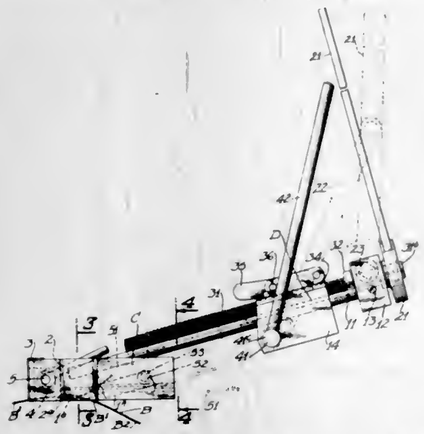
Application August 28, 1947, Serial No. 771,101
3 Claims. (Cl. 81—6)



1. A watchmaker's jig, comprising a sheet metal base, having a heat-insulating handle, and having mounted flatwise thereon a single-roller-table-holding slotted metal plate having a length and width about 1 to 3 times the diameter of a watch roller table and having a thickness not substantially greater than the portion

of a jewel pin protruding from a roller table, the back end of said plate being rigidly and directly attached to said base near the handle end thereof, and the front end of said plate being slotted with a slot having a length about 3 to 10 times its mouth width and having an interior width as great as the thickness of a jewel pin, said jig also having mounted thereon a resilient V-shaped strip having a conical locking pin at the free end thereof, so positioned that when said pin is closed by pressing toward the roller-table-holding plate the locking pin's point will be substantially directly over the point of the slot in said plate, and a slidable clip on said resilient strip for locking said pin in a closed position, in the center hole of a single roller table.

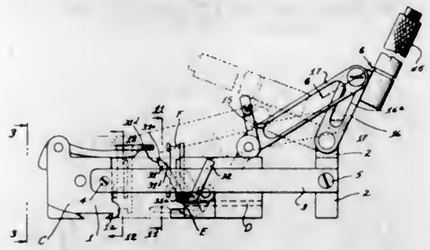
2,612,802
STRAP FASTENING TOOL
Michael J. McAneny, Hillsboro, N. Mex.
Application June 19, 1944, Serial No. 541,102
7 Claims. (Cl. 81—9.1)



1. In a means of the class described, the combination with a strap having a buckle secured at one end thereof and provided with means for receiving and securing another portion of the strap, the other end of the strap being securable to said buckle by said means, of a tightening tool having a jaw means for receiving and clamping the buckle, a second jaw means at one side of the first jaw means for gripping said other end of the strap, the second jaw means being movable on the tool for drawing said other end of the strap tightly with respect to the buckle, a dog at the opposite side of the first jaw means for gripping and holding said other end of the strap with respect to said buckle when said other end of the strap is released by the second jaw means, and means in association with the first jaw means for folding said other end over said buckle and securing said end thereto.

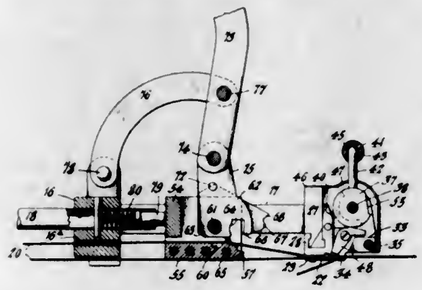
2,612,803
STRAP FASTENING TOOL
Michael J. McAneny, Hillsboro, N. Mex.
Application April 18, 1945, Serial No. 589,011
6 Claims. (Cl. 81—9.1)

1. In a strap fastening tool for fastening a strap to a buckle, a frame having a head with buckle and strap engaging means, a slide on the frame, an operating lever mechanism on the rear of the frame pivotally connected to the slide for reciprocating the same, the forward end of the slide having a shear portion, a shear member movably mounted on the slide to move at right angles to the direction of movement of the slide and adapted to engage the shear portion, and means connected with the lever mechanism



for operating the shear member at one end of the stroke of the slide, the shear portion and the shear member having forming die portions in connection therewith for bending the sheared end of the strap upwardly by continued downward movement of the shear.

2,612,804
STRAP FASTENING TOOL
Burnie M. Craig, Pasadena, Calif., assignor to Michael J. McAneny, Buffalo, N. Y.
Application June 2, 1947, Serial No. 751,912
13 Claims. (Cl. 81—9.1)

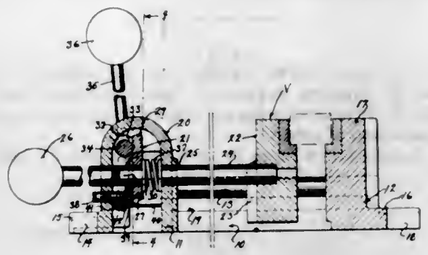


1. A strap fastening tool of the character described, comprising a frame having means thereon to detachably receive a buckle to which one end of a banded strap is connected, said buckle-receiving means including laterally-adjustable members having rests thereon for supporting the marginal side edges of the buckle, laterally-displaceable means mounted on said frame forwardly of said buckle-receiving means and adapted to receive and clamp thereto the other end of the strap to be fastened to the buckle, and means mounted on said frame and operatively connected to said strap-receiving means for actuating the same toward and from each other into and out of the engagement with the marginal side edges of the strap.

2,612,805
LOCKING PLATE ADJUSTING MEANS FOR VISE BEAMS
Robert O. Heinrich, Racine, Wis.
Application August 10, 1951, Serial No. 241,313
1 Claim. (Cl. 81—17)

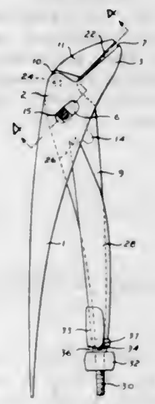
A quick adjustable vise comprising a frame, a fixed jaw on said frame, a movable jaw, a sliding beam secured to the movable jaw and slidably supported by said frame whereby said movable jaw can be freely slid toward and away from the

fixed jaw, a locking plate having an opening therethrough intermediate its ends for receiving the beam, said plate extending above and below the beam, a cam shaft being rockably carried by the frame, and having its throw portion disposed above the beam and engaging the upper end of the plate, means for turning the shaft, an adjustable stop carried by the frame, and disposed below the beam so as to contact the plate below



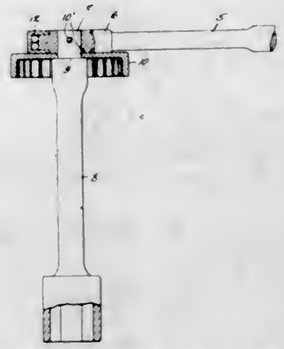
the beam, and spring means normally holding the plate tight against the throw portion of the shaft and against the stop, the stop being adjustable relative to a vertical line bisecting the axis of the shaft, and said stop having an enlarged head provided with a smooth forward plate-engaging face and a toothed periphery, and means engaging said toothed periphery to prevent accidental movement of the stop.

2,612,806
PLIERS
Carl L. Ohman, Vancouver, British Columbia, Canada
Application September 15, 1951, Serial No. 246,796
2 Claims. (Cl. 81—51.3)



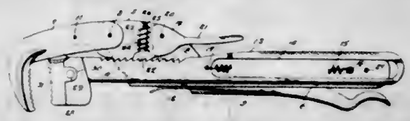
1. A plier comprising a hand lever having a head piece, a jaw and a slot extending obliquely of the head piece and a pin extending from a face of said head piece, a lever mounted for pivotal movement with respect to the hand lever, a second hand lever rockingly connected adjacent the free end of the lever, said second hand lever being pivotally connected to the first named hand lever, said lever having a head piece, a jaw and a slot in said head piece at right angles to said jaw in which the pin of the first named head piece has sliding movement, and a bolt connecting said head pieces together, said bolt also serving as a fulcrum about which the head pieces rock.

2,612,807
RATCHET WRENCH SPINNER
Ralph R. Hunt, Haddonfield, N. J.
Application November 17, 1947, Serial No. 786,388
1 Claim. (Cl. 81—58.1)



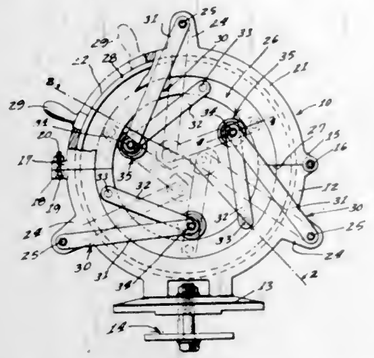
A slack wheel for a socket wrench having a projecting socket engaging member having a spring pressed ball therein, said slack wheel comprising a very thin disc having an out-turned flange formed on the periphery thereof and at right angles thereto, said flange being of undulating form, said disc having a square opening therein for registering with the socket engaging member of a socket wrench, the square opening in said disc cooperating with said spring pressed ball to retain the disc on the socket engaging member.

2,612,808
LEVER ACTUATED PIVOTED OUTER JAW WRENCH WITH PIVOTED RACK CATCH
Hervey W. Small, Dubois, Idaho
Application March 31, 1949, Serial No. 84,695
1 Claim. (Cl. 81—81)



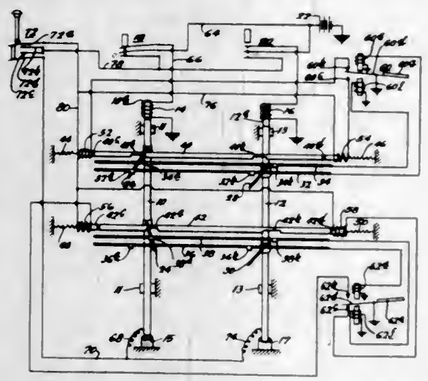
A wrench comprising an elongated handle, a jaw member pivotally connected to the handle for movement in an arcuate path adjacent one end of the handle, a jaw carried by the jaw member for movement in an arcuate path remote from the handle from an active position in which it extends substantially perpendicular to the longitudinal axis of the handle to an inactive position in which it lies at an angle to one side of the handle, a lever pivotally connected to the handle and connected to the jaw member for moving it in its arcuate path, a bar member mounted in the handle to move longitudinally through the end of the handle adjacent the jaw member, a second jaw carried by the bar member to move therewith in a rectilinear path toward and away from the handle adjacent the end thereof carrying the jaw member, yielding means connected between the handle and bar member for moving the second jaw toward the handle, rack teeth carried by the bar member, and a toothed latch bar pivoted on the handle for engaging the rack teeth and holding the bar member in a selected position and against movement by the yielding means, and cam means carried by the lever for engaging the second jaw and moving it toward the jaw member against the effort of the yielding means.

2,612,809
STEADY REST
Julian U. Shager, Tacoma, Wash.
Application December 10, 1948, Serial No. 64,580
6 Claims. (Cl. 82—39)



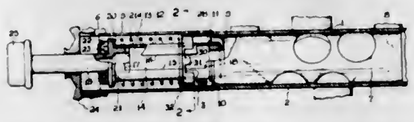
1. A rest of the class described, comprising a frame adapted to be secured to a machine tool, an adjusting member carried by the frame for turning about a center, a plurality of two-part pivotally joined work steadying arms each pivotally coupled at one extremity to said frame and at the other extremity to the adjusting member, a ball bearing work contacting roller rotatably supported by each arm at the pivotal coupling between the parts thereof to turn on an axis paralleling the turning axis of the adjusting member, and means for turning the adjusting member to effect movement of said work contacting element relative to said center, said adjusting member being turnable between two positions in one of which positions said arms are folded with the roller separated from said center and in the other of which positions the arms are unfolded with the rollers closely grouped together around the said center.

2,612,810
COMBINATION SETTER FOR ORGANS
Earle L. Kent, Elkhart, Ind., assignor to C. G. Conn Ltd., Elkhart, Ind., a corporation of Indiana
Application April 21, 1948, Serial No. 22,430
4 Claims. (Cl. 84—345)



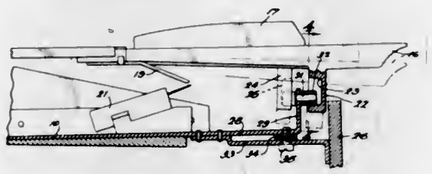
1. A combination setter to capture a setting of stop tablets in an organ or the like comprising in combination, a setter element, a plurality of combination pistons, a plurality of capture type operating mechanisms, one corresponding to each of said combination pistons and operative in response to actuation of said setter element and the corresponding combination piston to establish a predetermined condition in accord with the condition of stop tablets at that time, and means operative in response to actuation of each of said combination pistons to reset said stop tablets in accord with said condition of the corresponding operating mechanism.

2,612,811
VALVE FOR WIND INSTRUMENTS
Fred N. Meyers, Andover, Ohio, assignor to The H. N. White Company, Cleveland, Ohio, a corporation of Ohio
Application June 9, 1948, Serial No. 31,989
12 Claims. (Cl. 84—392)



1. In an instrument of the character described, a piston assembly comprising a hollow cylindrical barrel having an elongated opening in the wall thereof, a stem secured to said barrel, said stem having an annular flange formed integrally therewith, a piston guide embracing said barrel, said guide comprising an annular member having a tongue formed integrally therewith and extending radially-inwardly into said opening, and a compression coil spring interposed between said flange and said guide, said tongue terminating at a point slightly radially inwardly of said opening.

2,612,812
KEYBOARD CONSTRUCTION
Leland B. Greenleaf, Elkhart, and Earnest F. Swanson, Bristol, Ind., assignors to C. G. Conn, Ltd., Elkhart, Ind., a corporation of Indiana
Application February 1, 1949, Serial No. 74,024
8 Claims. (Cl. 84—433)



1. A keyboard construction comprising a pivotally mounted key, a flexible strip underlying and generally parallel to the key, interengaging parts on the key and the strip to limit relative movement therebetween, a fixed rigid member underlying the flexible strip and an adjustable tension fastening connecting the flexible strip and the rigid member.

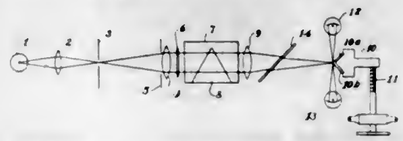
2,612,813
ATTACHING MEANS
Aaron Cohn, Philadelphia, Pa.
Application September 20, 1948, Serial No. 50,224
1 Claim. (Cl. 85—11)

An attaching means for use with a device of resilient material; said attaching means comprising a sheet material shank and a substantially V-shaped sheet material prong projecting from said shank and substantially perpendicular thereto; said prong comprising a face portion and an edge having a recess portion and a cam leading to said recess portion; said cam being adapted to guide said resilient material into said recess portion; said recess portion comprising a latching portion adapted to interlock with said resilient material



in said recess portion, said recess portion extending from said latching portion to said shank; and a protuberance extending from said face portion of said prong in proximity to the junction of said shank and said prong, and adapted to bear against said device and to draw said resilient material into said recess portion.

2,612,814
DIFFERENTIAL REFRACTOMETER
Leo G. Glasser, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 26, 1948, Serial No. 29,279
10 Claims. (Cl. 88—14)



1. A differential refractometer comprising the combination of a light source, a condensing lens, a restrictive light slit, a collimating lens, a light filter passing only light substantially continuous in intensity with wave length, a sample chamber disposed normal to the light path and provided with a space for one of the liquid materials to be compared and with a hollow prism disposed with its vertex parallel to the plane containing said restricting slit and its sides oblique to the light path for containing the second liquid material to be compared, a second condensing lens, a sharp-edged dividing mirror movably mounted in the plane of light deflection for splitting the once-refracted emergent light from said sample chamber into separate portions, and electrical means for measuring the ratio of the amount of said once-refracted light in each of said portions, and for moving said dividing mirror to a new position where the separate light portions are equalized, thereby indicating the amount of deflection of said once-refracted light.

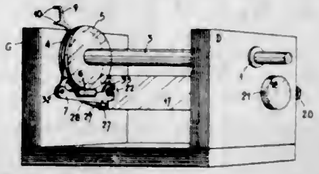
2,612,815
BOTTLE OR CONTAINER INSPECTION APPARATUS
Edwin H. Britt, Raleigh, N. C., assignor, by mesne assignments, to Harris Foundry and Machine Company, Cordele, Ga., a corporation of Georgia
Application October 30, 1946, Serial No. 706,555
5 Claims. (Cl. 88—14)

1. A container conveyor system including a supporting frame, an endless conveyor associated thereon for delivering a plurality of containers to a station adjacent the discharge end of said endless conveyor, inspection means at said station, a bracket fixed to said supporting frame, vertical shafts rotatably carried by said bracket, a star wheel on the upper end of one of said shafts overlying said endless conveyor and engageable with said containers, a stop wheel having a stop lug thereon secured to the lower end of one of said shafts, a hinged gate adjacent said endless conveyor, an actuating rod rotatably supported upon said supporting frame, a finger carried by one end of said rod and disposed adjacent said gate, a latch arm on the other end of said rod intermittently engageable with the stop lug on said stop wheel and releasable by



the crowding of the bottles against said gate causing the same to move outwardly to actuate said finger for releasing said latch arm, thereby permitting the release of a predetermined number of bottles to travel along said endless conveyor to a stationary position at said inspection station, means for retaining said bottles momentarily at the inspection station, and an arcuate bottle actuated finger pivotally supported on said supporting frame for releasing containers at said station.

2,612,816
MECHANISM FOR THE INTERMITTENT DRIVING OF CINEMATOGRAPHIC FILMS
Jean Thévenaz, Yverdon, Switzerland, assignor to Paillard S. A., Sainte-Croix, Switzerland, a corporation of Switzerland
Application March 14, 1950, Serial No. 149,502
In Switzerland March 24, 1949
2 Claims. (Cl. 88—18.4)

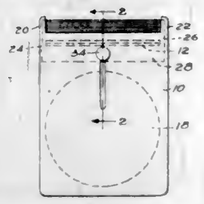


1. A mechanism for intermittently moving a film having perforations therein, comprising, a frame, an arm carrying adjacent one end claw means for insertion in the perforations, a control lever pivoted to the other end of the arm and fulcrumed on the frame, and torsion spring means urging the lever against a cam, said spring means constituted by an elastic blade subjected to torsion and having one of its opposite ends fixed to the frame, the other end of said blade being secured to the lever at two distinct points symmetrically situated with respect to the fulcrum of the lever.

2,612,817
PHOTOELECTRIC EXPOSURE METER FOR INCIDENT LIGHT MEASUREMENTS
Frederick P. Willcox, Bethesda, Md.
Application September 2, 1948, Serial No. 47,424
3 Claims. (Cl. 88—23)

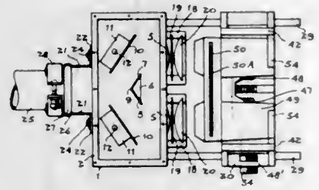
1. A photoelectric exposure meter comprising a substantially rectangular casing having one of its end walls formed to provide a window opening, a rectangular photoelectric cell disposed in said window opening, an indicating instrument mounted in said casing and connected with said cell, means adjacent said one end wall defining curved guides extending along two opposite edges of said window opening, a sheet of flexible, light-

transmitting and diffusing material mounted in said guides for movement between a first position in which it overlies said cell in a configuration convexly curved in one meridianal direction about an axis parallel to the long dimension of



said cell, and diffusing the light incident on said cell, and a second position in which it lies flat within the confines of said casing to one side of said cell and out of the path of light reaching said cell, and operating means for sliding said sheet between said respective positions.

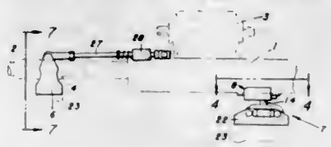
2,612,818
ATTACHMENT FOR PROJECTORS FOR PROJECTING STEREOSCOPIC PICTURES
William J. R. Jackson, Toronto, Ontario, Canada, assignor of fifty-one per cent to H. Sterling Ames, and ten per cent to Harold F. Halliday, both of Toronto, Ontario, Canada
Application June 9, 1950, Serial No. 167,058
6 Claims. (Cl. 88—29)



2. An attachment for use in stereoscopic projection comprising a beam splitting unit consisting of a casing having a plurality of openings therein, a pair of reflecting surfaces located to receive light rays entering one of said openings and meeting in a vertical edge opposite thereto and obtusely arranged to direct light rays falling thereon outwardly in opposite directions from said edge, and a second pair of obtusely arranged reflecting surfaces mounted within said casing in the path of said outwardly directed light rays to reflect same in a reverse direction as a pair of substantially parallel light beams through other of said openings, condenser lenses and polarizing media arranged in the path of said light beams, a guideway extending outwardly from said casing in the direction of said beams, a carriage slidably mounted on said guideway, a pair of clamps mounted on said slide and movable thereon transversely of said guideway, and means to operate said clamps while permitting said clamps to maintain equal spacing from a point midway between said light beams.

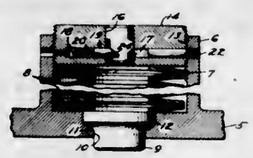
2,612,819
GUN MOUNT
Quinton C. Johnson, Torrance, Calif., assignor to North American Aviation, Inc.
Application July 5, 1949, Serial No. 103,063
6 Claims. (Cl. 89—37)

1. A rear mount for a gun of the recoiling type comprising means for supporting the rear portion of said gun with freedom for longitudinal sliding movement including a post in alignment with the centerline of the gun at all times, a block



for carrying said post, means for moving said block laterally with respect to a support, and means for moving said post vertically.

2,612,820
ADJUSTING SCREW FOR FIREARMS
Charles H. Cleveland, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War
Application March 8, 1950, Serial No. 148,441
3 Claims. (Cl. 89—198)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

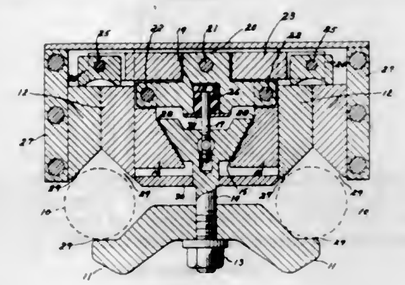


1. In a buffer mechanism for a firearm back plate having a rearwardly extending tubular buffer housing, the combination of, a buffer member longitudinally mounted in the back plate so as to protrude slightly therefrom, an adjusting screw threadably secured into the rear end of the buffer housing, a buffer spring interposed between said buffer member and said adjusting screw whereby rotative movement of the latter varies the amount of resistance of the former to impact, the housing having a pair of longitudinally extending slots formed on opposite sides thereof, a spring biased plunger transversely mounted in said adjusting screw and normally arranged to protrude therefrom into one of said slots in said housing for preventing rotative movement of said screw, a latch slidably carried in said screw for limiting the slot-engaging movement of said plunger, and cam means on said latch for actuating said plunger out of said housing slots when said latch is depressed into said adjusting screw.

2,612,821
UNIVERSAL CENTERING VISE
Frank Skay, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application June 8, 1948, Serial No. 31,801
1 Claim. (Cl. 90—60)

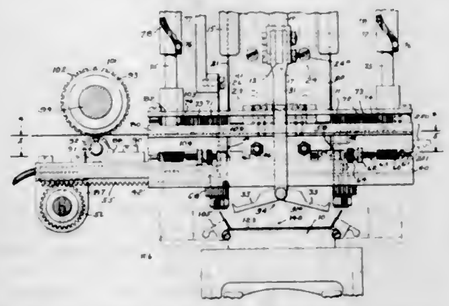
An apparatus for clamping rough castings comprising a bolt with a trapezoidal shaped head, a nut threaded on said bolt, a clamping jaw actuated by the nut, a headed rod connected to the trapezoidal shaped head, an elastomer member surrounding the headed rod adjacent the head of this rod, further clamping jaws opposite the first recited clamping jaw which are actuated by the bolt through the elastomer member and a linkage, and a clamping block located between the further clamping jaws and the

trapezoidal shaped head, said clamping block having one face parallel to the adjacent face of the trapezoidal head and its opposite face parallel to the adjacent face of the further clamping jaws, such that movement of the trapezoidal



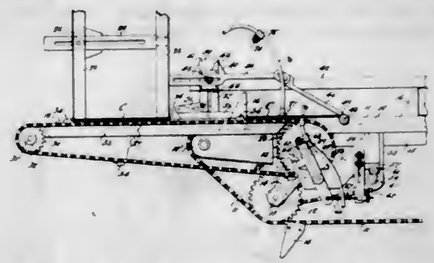
head relative to the clamping blocks causes said clamping block to clamp the further locking jaws firmly in position after the further locking jaws have been applied to the rough casting through the elastomer body.

2,612,822
PACKAGE FORMING MACHINE
Frederick E. Bickford, Rye, N. Y.
Application April 1, 1944, Serial No. 529,066
9 Claims. (Cl. 93—51)



5. In a device for forming reinforcing tray like members and applying said members to a sheet of cellulose acetate or the like, in combination, a molding chamber comprising a removable bottom element and upstanding side and end elements, said end elements being spaced from the ends of said side elements, a plunger adapted to be lowered into said molding chamber, means for feeding preformed blanks into position above said molding chamber, means for lowering said plunger against said blank to force the blank into the chamber and to cause bending of the sides and ends of said blank upwardly, and to pass the extremities of the ends of the blank through the spaces between said mold sides and ends, means located adjacent the corners of said chamber to fold the flaps of the ends of the blank against the sides thereof to form a tray, means to remove said removable bottom element, means to lower said plunger and to carry the formed tray from the molding chamber into contact with a sheet of cellulose acetate or the like in position beneath said tray, means to cause said tray to adhere to said sheet, and means carried by said plunger to cut said tray in half and to make an H-shaped incision in said sheet whereby the two half trays may be rotated about their edges to form reinforced ends for the ultimate package.

2,612,823
CARTON ERECTING MACHINE
Robert Otto Woelfer, Rahway, N. J., assignor to Container Equipment Corporation, Newark, N. J., a corporation of New Jersey
Application August 14, 1948, Serial No. 44,257
3 Claims. (Cl. 93—53)

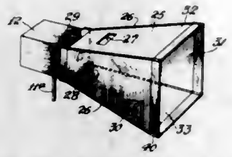


1. In a carton closing and sealing machine having track means to support cartons moved through the machine and a continuously running main conveyer for propelling the cartons along said track means, means for supplying collapsed cartons to the machine comprising a magazine mounted adjacent to the receiving end of said track means to hold a stack of collapsed cartons, a continuously running carton delivery conveyer traversing the bottom of the magazine and having push fingers to engage and withdraw bottommost cartons from the magazine, the discharge end of said carton delivery conveyer lapping the receiving end portion of the track means and the associated main conveyer whereby to deliver withdrawn collapsed cartons onto the track means subject to advance along the latter by the main conveyer, at least one pivoted detent lever arm disposed to overhang the track means subject to swinging movement toward and from the latter, said detent lever arm being adapted to engage a delivered collapsed carton at the juncture of its upper face panel and leading side panel so as to detain and lift said upper face panel while advance of the bottom face panel over the track means is effected by the main conveyer, thereby to expand the carton to endwise open condition, a bottom suction gripper means adapted to be moved into engagement with the bottom face panel of the collapsed carton so as to hold the same against displacement from the track means while advanced thereover by the main conveyer, and an oscillatable top suction gripper means adapted to be lowered to engage the upper panel of the collapsed carton and, when thereafter raised, to assist in lifting said upper panel for carton expanding effect, said top suction gripper means comprising a pivoted carrier lever mounted above the receiving portion of the track means for swinging movement toward and from a carton on the track means, a flexible air suction hose affixed to the free end of said carrier lever, said hose having a free end portion dependent from the carrier lever and terminating in a carton engageable suction cup, a rotated crank-arm to produce timed oscillation of the carrier lever, and a connecting rod connecting said carrier lever with the crank-arm.

2,612,824
TELEVISION PHOTOGRAPHIC DEVICE
Walter F. Kroemmelbein, Jr., New Brunswick, N. J.
Application August 9, 1950, Serial No. 178,389
1 Claim. (Cl. 95—11)

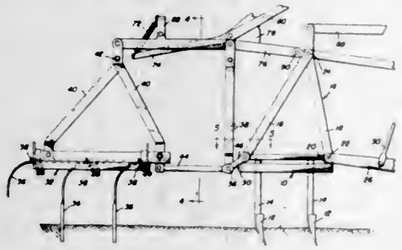
A prefocused television screen image photographic device comprising a supporting standard

upon which a camera is mounted, a light hood shield projecting forwardly from the camera and having forwardly flaring side walls and top and bottom walls, said walls being hingedly connected together along their meeting edges for movement into and out of a folded position, a clamping frame about the rear end of said hood fitting snugly about the front end portion of a camera and secured thereon to detachably hold the hood on the camera, a band of yieldable material ex-



tending about the front end of said hood and adapted to be positioned against a television screen, the top wall of the hood being formed with a sighting opening midway the width of its rear portion, and a mirror in said hood mounted upon the rear portion of the bottom wall and located beneath the sight opening and disposed below the lens of the camera and directed toward the forward open end of the hood to enable a person to view the picture on the television screen through said sight opening.

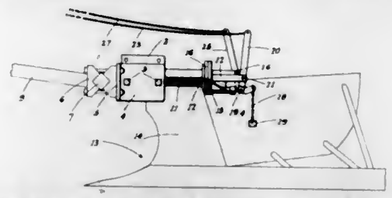
2,612,825
CULTIVATOR WITH WEEDER ATTACHMENT
Floyd B. Walker, Mountain Park, Okla.
Application December 30, 1947, Serial No. 794,511
11 Claims. (Cl. 97—8)



1. A farm implement comprising a frame having cultivator blades secured thereto, means for attaching said frame to a tractor, a support having ground cultivating elements thereon, means for detachably securing said support to said frame, said frame having a yoke associated therewith, a plurality of rods secured to said support, and means secured to said rods and detachably secured to said yoke for raising and lowering said support.

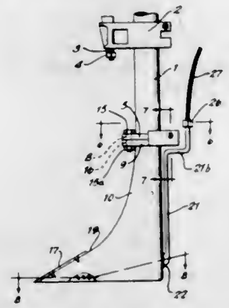
2,612,826
SWIVEL HITCH FOR EARTHWORKING IMPLEMENTS
Marvin L. Williams, Tulare, Calif.
Application September 27, 1948, Serial No. 51,397
3 Claims. (Cl. 97—47)

1. A swivel hitch comprising a cross bar, transverse attachment plates at opposite ends of the cross bar, mounting means adapted to secure the plates in connection with a tool bar, a spindle fixed to the cross bar and projecting longitudinally of the direction of travel, a sleeve turnable about the spindle, said sleeve being adapted to be attached in fixed relation to an earth working implement, and means releasably locking the sleeve in selective positions of relative rotative adjustment; said means comprising an index disc assembly between the spindle and sleeve including a spring pressed pin normally but releasably



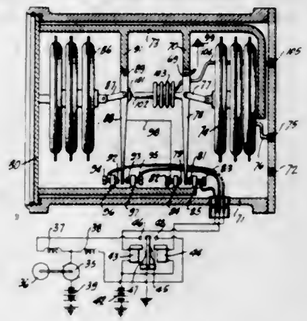
locking said assembly, the spindle extending beyond the sleeve adjacent said assembly, and a lever pivoted on the extension of the spindle and connected in releasing relation to the pin.

2,612,827
RELEASABLE IMPLEMENT CONNECTION
Thomas Laffin Baggette, Leland, Miss., and Alton Russell Copithorne, Chelsea, Mass., assignors, by mesne assignments, to The Sperry Corporation, New York, N. Y., a corporation of Delaware
Application December 9, 1948, Serial No. 64,355
3 Claims. (Cl. 97—185)



1. A releasable implement connection for a ground engaging tool including a vertical depending shank of substantial thickness terminating in a substantially horizontal plate having a length and width exceeding the thickness of said depending shank, the forward portion of said plate having a vertically extending aperture therein and the rearward portion of said plate having a pair of upstanding ears thereon, a plowshare having a vertically extending support axially aligned with said vertical depending shank, the support for said plowshare terminating in a second substantially horizontal plate at the top thereof, said second plate having a shape substantially conforming with the shape of said first mentioned plate and establishing contacting relation with the bottom of the first mentioned plate, said second plate having a pair of rearwardly disposed upstanding side portions aligned with the ears carried by said first mentioned plate, a pivot member extending horizontally through the side portions of said second plate and the ears of said first mentioned plate, said second plate having a vertically disposed aperture in the forwardly extending portion thereof aligned with the vertically extending aperture in said first mentioned plate, and a frangible connector extending through the vertically disposed apertures in both of said plates for maintaining said plowshare in alignment with said shank in a position subject to severance under conditions of excessive strain for releasing said plowshare for angular displacement about said pivot member.

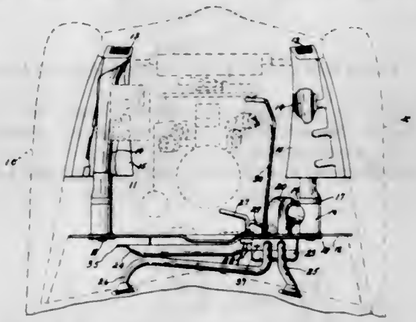
2,612,828
CABIN PRESSURE CONTROL INSTRUMENT
Bruce E. Del Mar, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.
Application December 9, 1950, Serial No. 200,045
17 Claims. (Cl. 98—1.5)



1. An instrument for use in a system for regulating pressure in an aircraft cabin which system includes means to effect and control air outflow from the cabin, comprising: a housing to be mounted within said cabin and including means for communicating the interior of said housing with the interior of said cabin; a first capsule mounted within said housing; means carried by said housing adapted to be connected to flight absolute pressure and communicating with the interior of said first capsule whereby the latter is to be subject to, and movable in response to changes in, the difference between cabin absolute pressure and flight absolute pressure; control effecting means including means adapted to be operatively connected to the means of said system for effecting and controlling outflow of air from the cabin; means operatively connecting said first capsule to said control effecting means whereby the latter is motivated by pressure change responsive movements of said capsule; an evacuated capsule mounted within said housing, exteriorly subject to cabin absolute pressure, and movable in response to changes in cabin absolute pressure; said capsules being so mounted within said housing as to be in mechanical force transmitting relationship with each other and so arranged that expansion of said evacuated capsule forcibly opposes expansion of said first capsule as said evacuated capsule expands in response to decreasing cabin absolute pressure during ascent of said aircraft; said evacuated capsule acting, whenever the ratio of cabin absolute pressure to flight absolute pressure exceeds a preselected value, to progressively restrain the expansion of said first capsule to produce such motivation of said control effecting means that the latter is adapted to control operation of said outflow effecting and controlling means of said system to vary cabin absolute pressure in accordance with said preselected ratio of cabin absolute pressure to flight absolute pressure.

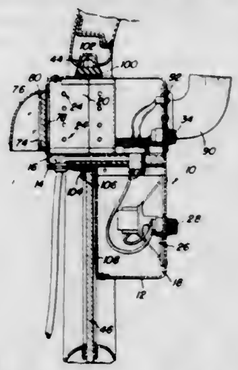
2,612,829
VEHICULAR HEATER
Harold V. Joyce, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application May 5, 1948, Serial No. 25,175
1 Claim. (Cl. 98—2)

In a motor vehicle, a heating system comprising an impact air conduit leading from a forward position on the vehicle and discharging directly into the passenger compartment, a branch conduit located intermediate the ends of the impact air conduit and terminating in a blower mechanism, a three-way valve at the intersection of the impact air conduit and the branch conduit, said three way valve comprising an approximately elliptically shaped rigid member whose minor axis is approximately the diameter of the impact air conduit and which supports a



thin elastomer gasket member which extends significantly beyond the limits of said rigid member at least in the vicinity of the minor axis whereby an over center locking action is obtained which will secure said rigid member in either of its extreme positions, a heater connected to said blower mechanism and a heat distributing means adapted to distribute in the passenger compartment air passing through the blower and heater.

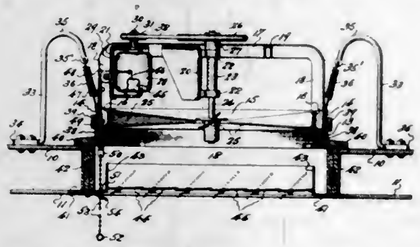
2,612,830
AIR CONDITIONING AND SPEAKER UNIT FOR AUTOMOBILES
James R. Kendrick, Greenville, S. C.
Application March 24, 1949, Serial No. 83,263
2 Claims. (Cl. 98—2)



1. An attachment for use in a vehicle window opening having a vertically sliding pane for closing same, said attachment comprising a generally L-shaped case having a horizontal portion and a vertical portion, said horizontal portion being adapted to be disposed between the upper edge of said pane and the top of said window opening with the vertical portion disposed within the vehicle, the lower surface of said horizontal portion being provided with a channel strip adapted to receive the upper edge of the pane and position said case in said window opening, a heater structure mounted in the horizontal portion, said vertical portion being

adapted to support a loud speaker and control means for said heater, said heater structure including an air inlet opening in the outer side of said horizontal portion, a longitudinally offset air outlet on the inner side of said horizontal portion, a tortuous passageway connecting said inlet and outlet opening, heating means disposed in said tortuous passageway for heating air passing therethrough, a blower mounted within said passageway adjacent said outlet opening.

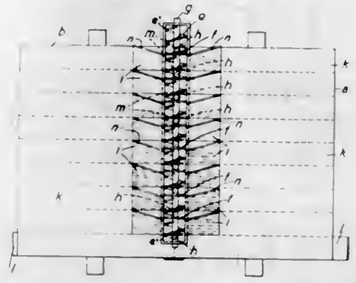
2,612,831
VENTILATING FAN AND MOUNTING THEREFOR
William J. Lohman, Jr., Morristown, N. J., assignor to Chelsea Products, Inc., Irvington, N. J., a corporation of New Jersey
Application January 12, 1948, Serial No. 1,685
1 Claim. (Cl. 98—43)



A ventilating mechanism for exhausting air through a rectangular passage opening in a floor and underlying ceiling comprising a horizontal fan housing formed by a flat body plate having a vertical rectangular external peripheral flange and a vertical circular internal flange forming a central opening, the external peripheral flange of said body plate being constructed and arranged so as to be adapted to overlie and register with the rectangular margins of the ceiling opening, an associated motor and fan supporting framework mounted upon the horizontal portion of said body plate which intervenes between its external and internal flanges in such a position that the fan blades will rotate concentrically within the said central opening provided by the internal flange, a completely rectangular flexible air duct secured at its upper end to the external flange of the body plate and adapted to have its lower end secured to the marginal edges of the floor surrounding the passage opening, and resilient suspension means for the fan housing comprising a plurality of upstanding standards having feet affixed to said floor, said standards being respectively disposed adjacent respective corners of the fan housing at opposite sides thereof, and extensible hanger springs depending from the upper free ends of the respective standards and having their lower ends connected to adjacent portions of the external flange of the body plate of said fan housing.

2,612,832
APPARATUS FOR FLAVOR TREATMENT OF CHOCOLATE
Herman Kürt Wiemer, Wallington, England
Original application December 10, 1949, Serial No. 132,352. Divided and this application December 12, 1950, Serial No. 200,317. In Great Britain December 10, 1948
4 Claims. (Cl. 99—236)

1. Apparatus for producing flavor development and improvement of chocolate from an already ground chocolate mass containing sugar in granular form comprising a pair of rolls, said rolls being mounted on horizontal parallel axes and spaced to provide a gap between them just exceeding the dimensions of the sugar grains in the mass, a longitudinally extending conveyor disposed above the gap between the rolls, said conveyor being subdivided into successive chambers each provided with a discharge outlet whereby chocolate mass delivered to said cham-



bers is deposited on the rolls in strips, means for advancing the chocolate mass from the feed end of the rolls to the other end, said means comprising a scraper having a scraping edge in contact with a roll at the position of each strip on the roll deposited from said chambers and having a delivery edge for delivering chocolate into a succeeding chamber, and scraping means disposed to contact the rolls adjacent said other end for removing the chocolate therefrom.

2,612,833
METHOD OF AND APPARATUS FOR BINDING BOXES
Chester M. MacChesney, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application December 22, 1944, Serial No. 569,383
78 Claims. (Cl. 100—2)

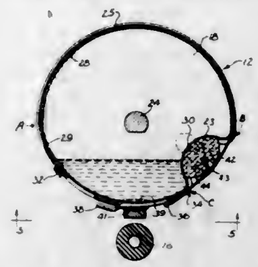


1. The method of binding a package with a flexible binder, which comprises the steps of drawing out a length of said binder from a source of supply, cutting off said length of binder, moving the ends of said length toward each other with the intermediate part of the binder unsupported to cause said length of binder to form a loop by gravity, passing a package into said loop, then effecting further relative movement of said ends toward each other to draw said binder taut around the package with its ends overlapping, and then securing said overlapping ends together.

2,612,834
DUPLICATING MACHINE
Herbert P. Sherman, Chicago, Ill.
Application February 14, 1950, Serial No. 144,158
6 Claims. (Cl. 101—119)

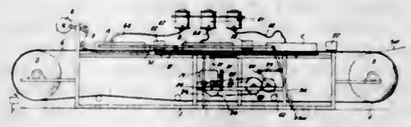
1. In a duplicating machine of the type described, a rotatable substantially cylindrical drum adapted to support a stencil, said drum comprising end members each having a substantially semicircular portion, an adjacent arcuate portion of progressively decreasing radius of curvature and a recessed portion connecting said two first mentioned portions, a porous plate through which ink may pass by capillary action

arranged between said semi-cylindrical portions and constituting a portion of the face of said drum, a non-porous plate arranged between said arcuate and said recessed portions and constituting the remainder of the face of said drum, said



non-porous plate having an aperture therein aligned with said recessed portion, a mass of absorbent material adjacent the face of said drum at said recessed portion, and means for securing a stencil contiguous to said porous plate.

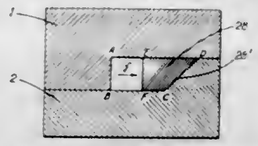
2,612,835
SCREEN PRINTING MACHINE FOR TEXTILES
Jan Ivo Marek, Margate, and Laurence Steinberg, Ramsgate, England
Application October 5, 1948, Serial No. 52,952
In Great Britain October 31, 1947
11 Claims. (Cl. 101—126)



10. In a screen printing machine for textiles, the combination, comprising, a main frame, an endless belt supported for movement on the frame and having holes adjacent its longitudinal edges, reciprocable ratchet rack means periodically engageable with the belt holes and while engaged therein moving the belt through a predetermined distance, means reciprocating the rack means and including a crank arm and a vertical shaft fixed to the arm, subframes movable onto and from the belt, squeegees movable backwards and forwards and stationary when the subframes are raised; means moving the squeegees, said means including, a main driving shaft geared to the vertical shaft and a half gear driven by the main shaft, cams carried by the main shaft, levers pivoted to the frame and intermittently rocked by the cams, channel means supporting the rack means and carrying inclined projections, rollers carried by the frame and engaged by the projections and raising the channel means and racks to engage the teeth thereof with the belt holes, and a motor driving the main shaft.

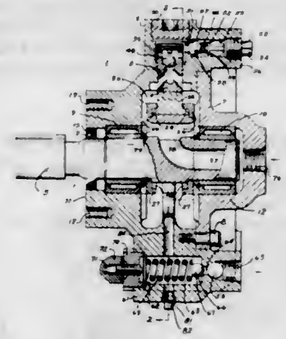
2,612,836
EQUIPMENT FOR STRIKING TYPE CHARACTERS
Alfred Bauer, Le Locle, Switzerland
Application February 26, 1948, Serial No. 11,058
In Switzerland July 20, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires July 20, 1966
2 Claims. (Cl. 101—401.5)

2. In a device for striking types of typewriting or calculating machines, a die formed from two adjacent parts bounding between them a space including an acute angle, both sides of which are formed by said parts, a removable spacing block of hardened steel inserted in said space and bounding a space exactly corresponding to the shape and dimensions of the stem of the type



inserted in the die, said spacing block being provided with an acute extension exactly fitted in said acute angle, whereby said extension acts as a wedge in helping to separate said adjacent die parts one from the other, after striking, to allow extraction of the type and spacing block assembly as a whole.

2,612,837
PUMP
Ernst L. Midgette, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 21, 1946, Serial No. 671,308
5 Claims. (Cl. 103—5)

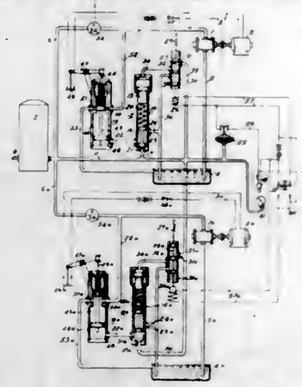


1. A pump comprising a fixed casing having one or more cylinders therein, a piston operating in each of said cylinders, a shaft rotatably mounted in said casing, cylindrical cam means carried by said shaft, a slipper pivotally attached to each of said pistons and engaging said cam means, said slipper having freedom for movement with respect to the said piston axially of the said pivot, and means for slidably retaining said slippers in engagement with said cam means, whereby upon operation of the latter by said shaft reciprocatory movements are imparted to said pistons, said retaining means comprising slipper-retaining elements together with means for fixing said elements axially of the shaft with respect both to the cam means and to the slippers so as to immobilize the slippers with respect to the cam means in direction axially of the latter.

2,612,838
FLUID PRESSURE CONTROL APPARATUS
Beverly R. Nichols, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 1, 1949, Serial No. 78,986
4 Claims. (Cl. 103—11)

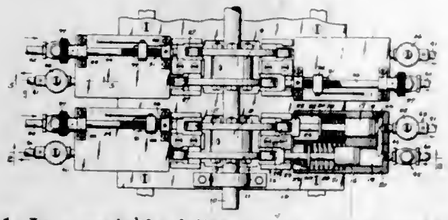
1. A dual pumping system wherein two pumping units supply fluid under pressure to a com-

mon conduit and each pumping unit comprises; fluid pumping means, pilot valve means responsive to the pumping means discharge pressure, biasing means resisting actuation of said pilot valve means, adjusting means having a first position whereby a predetermined resistance is imparted to said biasing means and a second position whereby a relatively greater resistance is



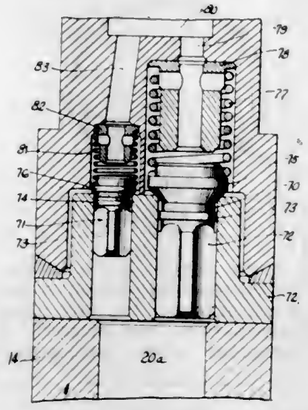
imparted to said biasing means, and pump control means actuable upon actuation of said pilot valve means for preventing discharge of said pumping means into said common conduit; the combination with said pumping units of means remotely controllable for selectively moving the adjusting means of either of said pumping units to said first position or to said second position.

2,612,839
VARIABLE-DELIVERY PUMP
Cartan H. Denny, Seattle, Wash., assignor to Webster-Brinkley Co., Seattle, Wash., a corporation of Washington
Application September 2, 1947, Serial No. 771,764
4 Claims. (Cl. 103—38)



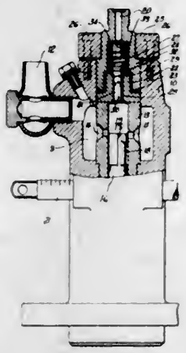
1. In a variable-delivery pump: the combination of a rotary drive shaft; a pair of identical eccentrics fixedly secured in axially spaced relation upon the drive shaft with the high point of one placed to coincide with the low point of the other; a pair of identical fluid pumps placed radial to the shaft in side-by-side relation and each comprising a cylinder and a reciprocally acting piston working in the cylinder and with the pumping chambers of the two cylinders in constant communication; a guide-block between the pistons and the eccentrics; piston-rods rigid with the pistons and each carrying a forked cross-head slidably journaled in the guide-block; respective rollers arranged to track upon the periphery of the eccentrics and journaled for rotary movement between the fork arms of the cross-heads; springs acting upon the cross-heads to yieldingly hold the rollers against the eccentrics; and adjustable means acting counter to the thrust of one of said springs and operating upon the piston-rod to serve as a stop for variably limiting the stroke travel of the rod.

2,612,840
FUEL INJECTION SYSTEM
Robert A. Lasley, Chicago, Ill., assignor, by mesne assignments, to Louis G. Simmons, Chicago, Ill.
Application May 13, 1948, Serial No. 26,850
3 Claims. (Cl. 103—41)



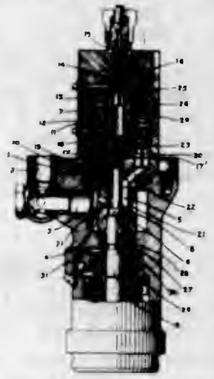
1. In a fuel injection system of the type including a pump adjustably operable to supply predetermined metered amounts of fuel under high pressure at each stroke and to release the high pressure abruptly upon delivery of said metered amounts, the combination of discharge valve means comprising a pair of valves connecting the high pressure side of said pump to the fuel line of said system, each of said valves including retraction means for withdrawing fuel from said fuel line during closing movement of said valves, stop members for limiting the opening movement of each of said valves, and individual spring means of different stiffness for resisting opening movement of said valves, whereby the opening of said valves and the amount of fuel withdrawn from said fuel line by said retraction means is dependent upon variations in the metered amounts of fuel supplied by said pump.

2,612,841
VARIABLE RETRACTION DISCHARGE VALVE FOR FUEL INJECTION PUMPS
Robert A. Lasley, Chicago, Ill., assignor, by mesne assignments, to Louis G. Simmons, Chicago, Ill.
Application September 29, 1948, Serial No. 51,816
5 Claims. (Cl. 103—41)



1. Variable retraction discharge valve means for a fuel injection system including a variable delivery pump for supplying metered amounts of fuel to a fuel line, said discharge valve means comprising a valve chamber in open communication with said fuel line and having a valve opening communicating with said pump and forming a valve seat, a hollow valve member slidably disposed in and substantially closing said opening and having a closed end extending into said chamber, a valve head on said valve member for engaging said valve seat, said valve member having radial apertures extending through the wall thereof below said valve head for communicating said pump with said valve chamber when said valve member moves inwardly of said chamber in response to the pressure developed by said pump, and spring means for moving said valve member outwardly to engage said valve head with said valve seat and to retract fuel from said fuel line upon release of said pump pressure, said apertures being spaced axially of said valve member so as to open in sequence and automatically vary in accordance with the amount of fuel delivered by said pump the extent of inward movement of said valve member and the amount of retraction effected during outward movement thereof.

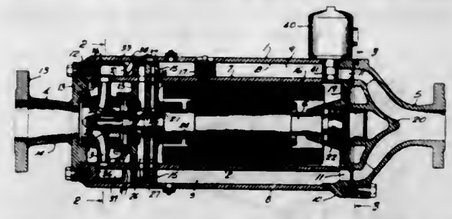
2,612,842
FUEL INJECTION PUMP
George Steven, Kenmore, and Roy R. Fruehauf, Buffalo, N. Y., assignors to Worthington Corporation, a corporation of Delaware
Application November 13, 1946, Serial No. 709,514
26 Claims. (Cl. 103—41)



1. In a fuel injection pump, a relatively small plunger and cylinder for providing a relatively slow rate of injection, a larger plunger and cylinder for providing a higher rate of injection than provided by the small plunger and cylinder, and by-pass means controlled by said small plunger for by-passing fuel from said small cylinder to said larger cylinder.

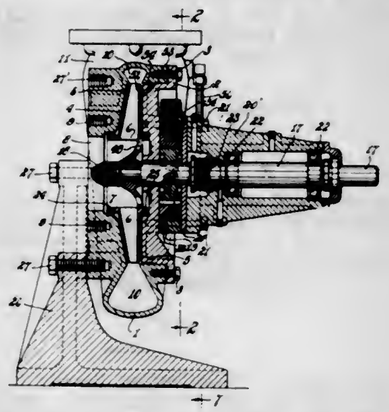
2,612,843
IN-LINE CENTRIFUGAL PUMP WITH FABRICATED VOLUTES
Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 16, 1946, Serial No. 654,824
3 Claims. (Cl. 103—87)

3. In an in-line centrifugal pump having an impeller mounted on one end of a shaft driven by an electric motor, a housing for said impeller and motor comprising a pair of tubular members concentrically secured together with the outer member extending over said impeller and with a passage between said members providing an outlet for fluid discharge by said impeller, a suction nozzle secured to said housing at one end and providing an inlet for fluid drawn into the pump by said impeller, at least one stamped metal volute of substantially U-shaped cross-section disposed circumferentially of said im-



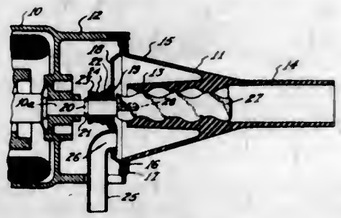
peller within the end of said outer tubular member to discharge fluid from said impeller into said discharge outlet passage of the housing, weld means securing said volute to the end of said inner tubular member, and a ring secured to said volute and said outer tubular member to close the end of said housing adjacent the impeller.

2,612,844
PRIMING MEANS FOR CENTRIFUGAL PUMPS
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application August 24, 1950, Serial No. 181,301
6 Claims. (Cl. 103—113)



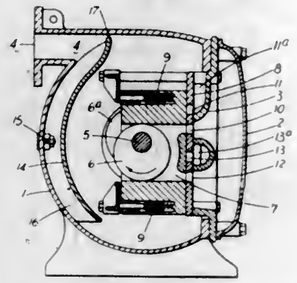
1. The combination with a centrifugal pump having an impeller, a driving shaft therefor, a casing in which the impeller is mounted and which is provided with an inlet axially of the impeller and a volute passage surrounding the impeller and terminating with an outlet, and a check valve located in said passage near said outlet and opening outwardly in the direction of liquid flow, of a variable-capacity priming pump, comprising a rotor connected to be driven by said shaft, a stator encompassing the rotor and shiftable to vary the pumping rate, a casing in which the stator is mounted and which has inlet and outlet chambers respectively connected to said inlet and outlet and a cylinder connected to said outlet chamber, a piston connected to said stator and slidable in said cylinder and adapted to be moved by liquid pressure, and a spring for moving the stator in opposition to the piston and tending to hold the stator in its maximum pumping rate position.

2,612,845
HELICAL GEAR PUMP WITH NONRIGID CASING
Frederick Cameron Byram, New Carlisle, and George H. Zimmer, Jr., Springfield, Ohio, assignors to Robbins & Myers, Inc., Springfield, Ohio, a corporation of Ohio
Application April 29, 1950, Serial No. 159,079
13 Claims. (Cl. 103—117)



1. A stator for a helical gear pump, comprising an internally helically grooved cylindrical member, and a conical casing member, said casing member, at its small end, merging with one end of said cylindrical member, and towards its large end flaring away from said cylindrical member over substantially the length of said cylindrical member, said stator being of resilient material.

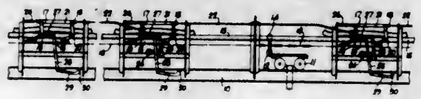
2,612,846
VENTING AND DRAINING MEANS FOR PUMPS
Frederick Walter McCombie, London, England, assignor to Megator Pumps & Compressors Limited, Feltham, England
Application July 30, 1947, Serial No. 764,827
In Great Britain September 11, 1946
6 Claims. (Cl. 103—203)



1. In a pump for delivering liquids having a casing, inlet and outlet connections leading to and from said casing and situated above the normal level of liquid in said casing when the pump is stationary, pumping elements for forcing liquid entering said inlet connection, out through said outlet connection by way of said casing, a by-pass connection leading from the bottom of said casing to said outlet connection for the passage of a proportion of the pumped liquid together with any solid matter which might otherwise accumulate in the lower part of the pump casing.
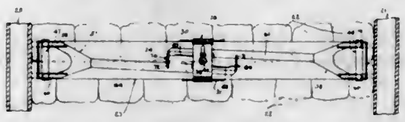
2,612,847
CONVEYER SYSTEM
Arthur Thomas Charles Burrows, Hitchin, England, assignor to Geo. W. King Limited, Hitchin, England, a British company
Application January 19, 1950, Serial No. 139,500
In Great Britain January 31, 1949
9 Claims. (Cl. 104—91)

1. In a conveyor system wherein load carrying trolleys are propelled along a main track by means of pusher dogs carried by a driving chain which is itself suspended from trolleys adapted to run on a second track disposed vertically above that on which the load carrying trolleys are caused to run such system also incorporating means for arresting any load trolley at a selected station in the conveyor path and means whereby the pusher dogs will be caused to move out of contact with any trolley so arrested thereby to discontinue the drive to the latter without interruption of the drive to said driving chain, the provision of indexing means comprising a pivoted actuating member adapted to be actuated by a load trolley on arrival at the aforesaid station, chain lifting means located at a point in the conveyor path preceding said station, said means being normally inoperative but adapted on actuation to lift the driving chain, a mechanical connection between said pivoted actuating member



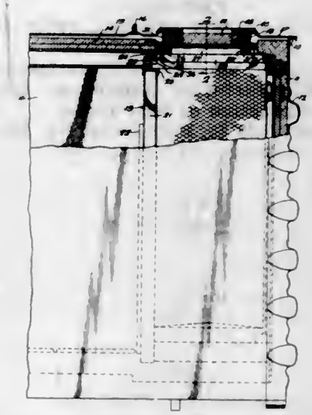
and said chain lifting means whereby the latter will be rendered operative on actuation of said pivoted actuating member by a trolley thereby to cause the drive to the next following trolley, to be discontinued, a pivoted stop member disposed adjacent the main track and at a point in the conveyor path adjacent said chain lifting means and means whereby actuation of said chain lifting means will result in projection of the stop member into the path of said next following trolley thereby positively to stop the same when the drive thereto is discontinued, the arrangement being such that on release of the first mentioned trolley from the station the pivoted actuating member will be returned to its initial position thereby to allow the chain lifting means and the stop member to be rendered inoperative and the drive to the next following trolley restored.

2,612,848
CARGO BRACE AND THE LIKE
Alfred Sowden, Arkansas City, Kans.
Application April 5, 1951, Serial No. 219,406
20 Claims. (Cl. 105—369)



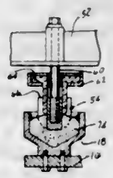
1. A cargo brace for use in a vehicle to extend between the opposite walls of said vehicle, said brace comprising in combination a bowed elastically flexible body member having a chord length not greater than the distance between said walls, a wall engaging element movably connected to each end portion of said bowed body member and movable endwise of said body member towards and away from the adjacent wall surface, common means carried by the body member for actuating said wall engaging elements, connections between said common actuating means and said wall engaging elements for simultaneous projection of said wall engaging elements endwise beyond the ends of the body member into engagement with the proximate wall surfaces, and means to releasably lock said common actuating means in its actuated position to retain the wall engaging elements in projected wall engaging condition.

2,612,849
HATCH CONSTRUCTION FOR RAILWAY CARS
John S. Lundvall, Park Ridge, Ill., assignor to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois
Application May 27, 1949, Serial No. 95,705
9 Claims. (Cl. 105—377)



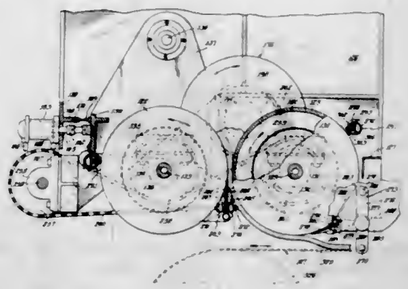
1. A hatch construction for a railway car comprising a non-metallic frame formed with a tapered opening therethrough, an outer metal cover sheet formed with a downwardly tapered flange extending into the frame opening in contact with the inner tapered wall thereof and terminating intermediate the upper and lower edges of the opening, and an inner metal cover sheet having an upwardly flaring flange extending into the frame opening in contact with the inner tapered wall thereof and terminating in spaced relation to the flange on the outer cover sheet, said flanges being aligned and forming a tapered surface to receive a tapered closure member, said non-metallic frame having an inwardly projecting ridge in its central portion lying between the flanges and forming with the flanges a substantially smooth surface.

2,612,850
FORMING HEAD FOR BREAD ROLL MACHINES
Joseph Marziani, Philadelphia, Pa.
Application April 17, 1948, Serial No. 21,578
2 Claims. (Cl. 107—8)



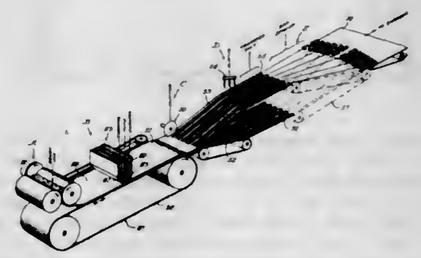
1. A lubricating device for the roll forming head of a bread-making machine in which said head is carried at the lower end of a vertically reciprocating rod, said device including a lubricant-permeable member mounted on said rod above said head and freely movable relative to said head and a lubricant-permeable extension depending from said member and adapted, when said rod is moved relative to said member, to have wiping contact with the surface of said head.

2,612,851
CANDY MAKING EQUIPMENT
Robert F. Morrison, Oak Park, Ill., assignor to Mars, Incorporated, Chicago, Ill., a corporation of Delaware
Application April 7, 1947, Serial No. 739,869
7 Claims. (Cl. 107—12)



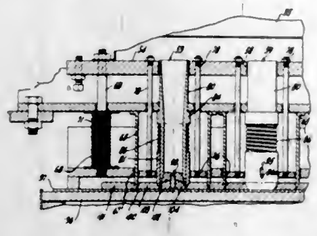
1. For use in spreading candy, a pair of parallel, cylindrical spreader rollers, means rotatably supporting the rollers in spaced relationship, a disc disposed at each end of the pair of rollers with the flat face of the disc against the ends of the rollers and spanning the space between the rollers, means mounting the discs for rotation, means connected in driving relationship with the rollers for rotating the rollers in opposite directions so that their adjoining faces are moving downwardly, means connected in driving relationship with the discs for rotating the discs, channel means in the rollers in heat exchange relationship with the peripheral surfaces, and pipe means communicating with the channel means for conducting a coolant into the channel means.

2,612,852
CANDY SLICING EQUIPMENT
Robert F. Morrison, Oak Park, Ill., assignor to Mars, Incorporated, Chicago, Ill., a corporation of Delaware
Application July 19, 1947, Serial No. 762,145
16 Claims. (Cl. 107—21)



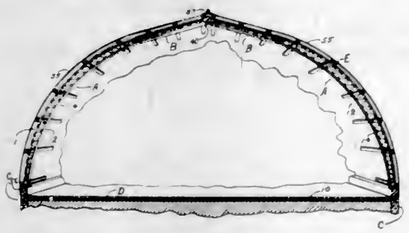
16. In combination, a plurality of slitting discs disposed in horizontal linear spaced relationship and adapted to rotate in parallel vertical planes, a slicer spaced from the discs in a direction lengthwise of said planes and provided with a plurality of slicing platforms arranged at different positions, slicer knife means above each platform, conveyor means extending from the slitting discs to each slicing platform and conveyor means extending from each slicing platform to a common position.

2,612,853
DOUGH RING CUTTING MACHINE
Andrew J. Bale, Jr., Berkeley, Calif., assignor to Pacific Bakery Machinery Co., Oakland, Calif., a corporation of California
Application January 3, 1950, Serial No. 136,598
7 Claims. (Cl. 107—25)



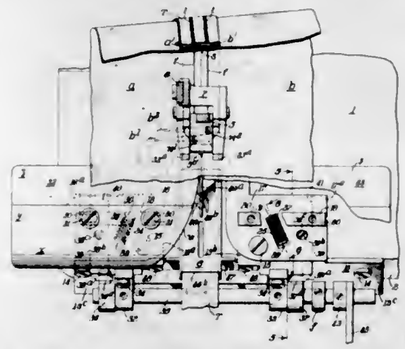
1. A machine of the character described comprising telescopically arranged inner and outer punches each having a tapered punching end forming a knife edge, the taper on the inner punch being opposite to the taper on the outer punch so as to form in effect a single knife edge when the punching ends of said punches lie in the same plane, said outer punch being slidably mounted on the inner punch for limited axial movement relatively to the inner punch, spring means operable to displace the outer punch axially so that its punching edge lies beyond the punching edge of the inner punch, means for advancing said punches in unison to perform a punching operation and for retracting the punches.

2,612,854
THREE-HINGED ARCH TRUSS
Karl W. Fuge, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a corporation of Wisconsin
Application July 3, 1948, Serial No. 36,856
1 Claim. (Cl. 108—1)



A structural support for a covering for buildings of the character described, comprising in combination, four structural elements, each comprising a pair of spaced apart channels formed from flat stock, with their flanges turned toward each other, each channel at its transverse center having inwardly pressed relatively small projections, braces secured to and forming a connection between projections, two of said elements being considerably longer than the other two, and being formed in easy curves in the same direction with the ends of the channels closer together than the center portion thereof, the other two elements being straight, plates secured to the projections of one end of said two long elements and to the projections on both ends of said straight elements with means for removably securing short and long elements together, and for securing the plates together on the other end of said short elements by means of a single bolt, for forming the apex of a building closure support, the other end of said long elements having plates secured to said projections, pads secured to a building foundation and having projections embracing said last plates and held thereto by means of single bolts.

2,612,855
FRENCH SEAMING ATTACHMENT FOR SEWING MACHINES
Rudolph J. Sailer, Townley, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application July 26, 1949, Serial No. 106,895
4 Claims. (Cl. 112—147)

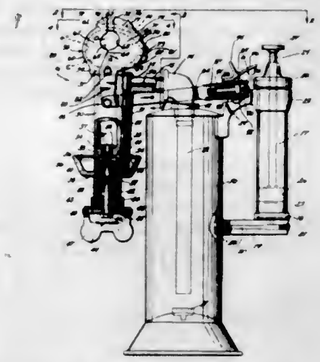


1. A sewing machine attachment comprising a base-plate adapted to be secured to the work-plate of a sewing machine; a pair of opposed work-supporting and -guiding members pivotally mounted on vertical axes on said base-plate, each of said members having a horizontally disposed portion constructed and arranged to lie between a work-piece and a folded back marginal portion thereof; spring means acting on said members to turn them inward in opposite directions about their pivots to cause them to engage the work therebetween; a pair of endwise movable slide-bars slidingly mounted on said base-plate and operatively connected with said work-supporting and -guiding members; a rock-shaft journaled on said base-plate; manually actuated means for turning said rock-shaft; and operative connections between said rock-shaft and said slide-bars.

2,612,856
SOLDERING UNIT
William A. Vinson, Madera, Calif.
Application December 17, 1946, Serial No. 716,798
8 Claims. (Cl. 113—111)

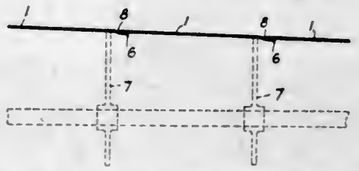
1. In a soldering unit, the combination of: a burner having a flame housing extending upwardly therefrom and through which the burning gases of combustion are conducted until the latter are discharged from the upper end of said housing; a pair of vise members pivotally related to each other and mounted upon the upper end of said burner housing, said vise members uniting to form therebetween a relatively confined chamber having an inlet opening connecting with the open upper end of said housing to receive the combustion gases discharged from said burner housing whereby relatively large interior surfaces of said members are exposed to said gases to cause the transfer of a substantial portion of the heat of said gases to said vise members, said chambers also having escape openings

for the dissipation of said gases; jaws provided on said vise members; and means causing relative



rotation between said members to bring said jaws into gripping relation with a piece of work and to release said jaws from such a relation.

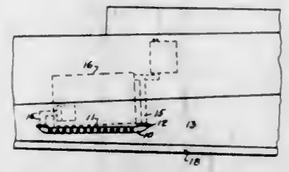
2,612,857
TORPEDO HULL
Lewis Jones, deceased, late of Upwey, Weymouth, England, by William Thomas Wilkinson, executor, Wimbledon, England, assignor to Vickers-Armstrongs Limited, London, England, a company of Great Britain
Application April 26, 1947, Serial No. 744,261
In Great Britain November 25, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires November 25, 1962
1 Claim. (Cl. 114—22)



A method of constructing a torpedo main hull of circular cross-section, consisting in pressing or stamping a plurality of sheet metal cup-like bodies each flanged outwardly at the rim of its open end and deformed at its periphery at its other end into a relatively shallow axial plug part merging into the closed base end of the body and adapted to nest snugly in the open end of an adjacent one of said bodies, removing said rim flange and machining back said plug part for mating with the adjacent body, removing a concentric part of the base of each cup-like body so as to leave an inwardly turned stiffening flange, assembling in co-axial relationship the said sheet metal stampings or pressings, mating the plug end parts into the other end parts of the pressings or stampings to produce a tubular hull structure uninterrupted from end-to-end, and thereupon welding the mating parts together to form a self-sustaining unitary tubular shell.

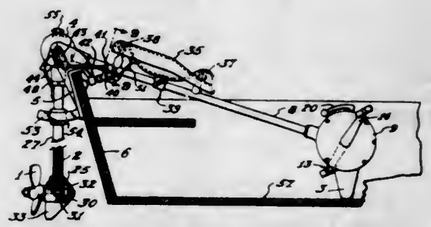
2,612,858
MARINE ENGINE WATER COOLER
Thomas Mairs, Tacoma, Wash.
Application May 17, 1948, Serial No. 27,402
1 Claim. (Cl. 115—0.5)

In a boat having a keel and a water-cooled engine provided with water intake and outlet ports; a closed cooling system for said water, comprising a tube adapted to be attached to the exterior of the boat below its water line adjacent the keel and secured at its opposite ends to said intake and outlet ports to form a closed cooling water circuit, and a plurality of cooling pipes extending transversely through said tube at an oblique



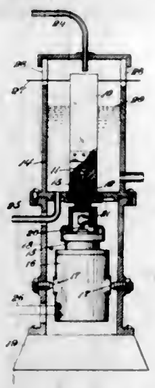
angle to the longitudinal axis of the latter, the cooling pipes projecting from the tube to form water scoops at their leading ends whereby the water surrounding the boat is driven through said pipes as the boat is propelled, the scoop ends of the cooling pipes facing the boat keel whereby to receive the water projected laterally outward from said keel as the boat is propelled.

2,612,859
PROPELLING AND STEERING MECHANISM
Beryl I. Billman, New Trenton, Ind., and Paul Slack, Detroit, Mich.
Application January 30, 1948, Serial No. 5,464
1 Claim. (Cl. 115—25)



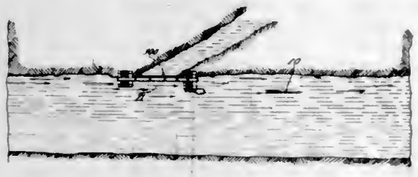
A removable boat propelling and steering mechanism comprising a clamp adapted to be fastened to the stern of a boat, a gear housing supported by said clamp, a shaft in a tubular casing projecting downwardly from said housing, a propeller mounted on the end of said casing and geared to said shaft, a second shaft in a tubular casing projecting from said gear housing to a second gear housing adapted to be supported on the bottom of a boat, foot actuated pedals associated with said second housing and a seat mounted on the casing containing said second shaft at a point between said first and second housings, said pedals rotating said propeller through said shafts and connecting gears, said first mentioned gear housing being formed of two halves, with one of the shaft casings being mounted on each half, the halves being rotatable in relation to each other in a vertical plane so as to permit variation of the angle formed by the two shafts, said first mentioned shaft casing being rotatable on said housing and said seat being mounted on bearings in a line substantially parallel to said second mentioned tubular casing so as to be tiltable, and connecting means between said seat and said first mentioned shaft casing so that the latter is rotated in response to the tilt of said seat for steering the boat.

2,612,860
FLUID PROCESSING APPARATUS
Pyam L. Pendleton, Cranston, R. I.
Application July 13, 1949, Serial No. 104,573
14 Claims. (Cl. 118—420)



1. Apparatus for the fluid treatment of strands or the like which comprises a fluid container, a pair of upright generally parallel resilient blades disposed in said container, fluid supply means for maintaining treating fluid in said container at a level below the upper ends of said blades, means for passing strand to be treated between the protruding ends of said blades, a shaft to which the lower ends of said blades are rigidly attached below said liquid level and means for vibrating said shaft in a direction generally normal to the planes of said blades at a frequency corresponding to a natural frequency of the same, said blades being so spaced apart that a vibrating field will be produced between their adjacent faces for raising fluid therebetween at least to the level of the path of strand level independently of any capillary action.

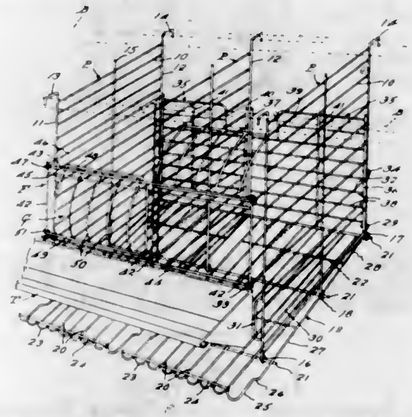
2,612,861
FISH DIVERTING APPARATUS
Henry T. Burkey, Los Angeles, Calif.
Application December 31, 1946, Serial No. 719,533
5 Claims. (Cl. 119—3)



1. A fish diverting barrier for use in a body of water having a tributary, said barrier extending across the mouth of said tributary and comprising: a plurality of spaced electric lamps, means interconnecting said lamps, and means operatively connected to said lamps for producing a moving light along said barrier.

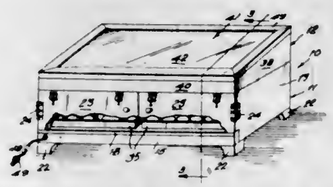
2,612,862
CHICKEN COOP
Victor M. Ipsen, Temple City, Calif.
Application January 17, 1950, Serial No. 138,980
3 Claims. (Cl. 119—18)

1. In an individual coop for chickens, a substantially rectangular body comprising bottom, back and side walls and having its top and front open, means at the lower edges of said side walls for supporting said bottom wall in a forwardly and downwardly sloping position with its front end projecting beyond the front vertical edges of the side walls, other means at the opposite ends of the top edges of said side walls for suspending the coop from a pair of parallel supporting elements, an egg catching trough carried at the



front end of said bottom wall, a feed trough, means projecting from the front edges of said side walls for supporting said feed trough crosswise of the lower portion of the open front of the coop, a closure for the open front of the coop above said feed trough, and means projecting from the front edges of said side walls for supporting said closure for vertical sliding opening and closing movements.

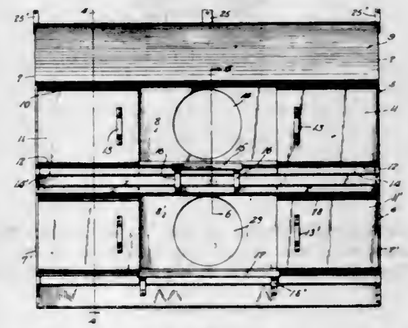
2,612,863
HOUSING STRUCTURE FOR USE EITHER AS AN INCUBATOR OR BROODER
George H. Wade, Sr., Middlebush, N. J.
Application August 30, 1950, Serial No. 182,253
4 Claims. (Cl. 119—30)



1. A housing structure for use either as an incubator housing or as a brooder housing, comprising a base section having a closed bottom and an open top and including end walls, a rear wall and a front wall, said front wall having an upper edge disposed below the level of the upper edges of the end walls and rear wall, doors hinged to the end walls for swinging movement between aligned closed positions coplanar with the front wall and at right angles to said end walls and open positions parallel to one another and in alignment with the end walls, said doors extending from the open top of said base section to adjacent the upper edge of the front wall, a top section comprising a frame having an open bottom resting on the open top of the base section, a cover hinged to the upper edge of said frame along one side thereof for vertical swinging movement between a closed

position against the open top of the frame and an open position out of engagement with the open top of the frame, said top section combining with the base section when disposed in superposed relationship thereon to form an incubator housing or being supported on the doors when the base section is inverted and the doors are in open positions to provide a brooder housing.

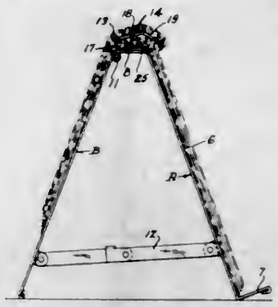
2,612,864
NESTING BOX
Frank J. Kummeth, Owatonna, Minn.
Application January 4, 1949, Serial No. 69,091
3 Claims. (Cl. 119—45)



1. A nesting box for suspension from the wall of a chicken house comprising a structure having end walls, a bottom wall and front wall, the front wall having end openings and a center entrance opening, doors slidably mounted on said front wall for longitudinal movement thereof to normally close said end openings, hangers at the rearward upper corners of said end walls for hingedly suspending said structure from the wall of the chicken house, and cleaning doors hingedly mounted on the rearward edges of the end walls above the bottom wall for outwardly swinging movement, said cleaning doors having flanges along their lower edges for engagement with the wall of the chicken house when swung outwardly to hold the structure in spaced relation to the wall when cleaning.

2,612,865
COPYHOLDER
John L. Macaulay and Alfeo Dal Favero, Corte Madera, Calif.
Application August 1, 1950, Serial No. 177,086
1 Claim. (Cl. 120—28)

A copyholder comprising a front leg including a substantially flat supporting surface, the upper end of said front leg terminating in a rearwardly extending book binding supporting shelf disposed at an angle of more than 45° with respect to the plane of said flat supporting surface of said front leg, a rear leg joined hingedly to the rearward marginal extremities of said shelf, a book binding spring clamp pivotally secured by a hinge connection to said shelf above and adjacent the hinge joint between said rear leg and said shelf, said clamp comprising an integral piece of sheet material substantially L-shaped in cross section defining first and second clamping surfaces, the first surfaces of said clamp extending forwardly from said hinge connection and being substantially coextensive in length and width to the length and width of said shelf and arranged to overlie said shelf when said clamp is spring biased in closed position, the second surface of said clamp establishing a flange depending downwardly from the forward extremities of said first



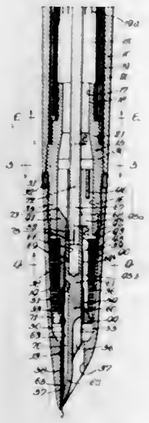
surface engageable against the upper portion of said supporting surface of said front leg when said clamp is spring biased in closed position.

2,612,866
COPYHOLDER AND BOOKHOLDER AND LINE FOLLOWER
Hazel B. Abbott, Wasington, D. C.
Application August 3, 1951, Serial No. 240,231
3 Claims. (Cl. 120—33)



1. A device of the character described comprising a flat body of sheet material formed close to its lower end with upper and lower transversely extending slots, a prop back of said body formed of sheet material and having its upper end hingedly connected with the body for swinging movement away from the body to a rearwardly inclined operative position, a brace for said prop formed of sheet material and hinged at its rear end to the lower edge of said prop for downward movement from a folded position close against the front face of the prop to a lowered forwardly extending operative position said brace having its forward portion gradually reduced in width and providing a wedge shaped portion adapting it to be passed forwardly through the upper slot and have wedging fit therein with a portion protruding forwardly from the body and constituting a book-supporting member, a lip formed of sheet material hinged along its upper edge to the front edge of said brace and foldable downwardly after being passed through the upper slot and disposed in a depending position at a rearward incline towards the front face of the body, and a tongue integral with said lip extending from the lower end thereof and of a width adapting it to be passed inwardly through the lower slot.

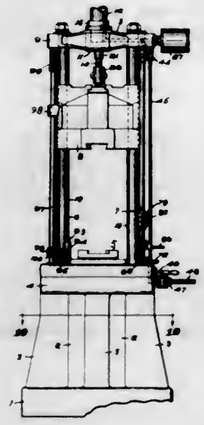
2,612,867
FOUNTAIN PEN
Marlin S. Baker and Harlan H. Zodtner, Janesville, Wis., assignors to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application August 23, 1948, Serial No. 45,776
8 Claims. (Cl. 120—46)



7. In a fountain pen, means forming an ink reservoir, an ink feed means having a wall forming a trap or well connected to said reservoir, and filling mechanism including a silver breather tube with one end passing through said trap and connected to said feed means and the other end projecting toward the rear end of said reservoir, said breather tube being thin-walled with a small internal diameter and having a vent opening in that portion of said tube passing through said trap of less diameter than the internal diameter of the corresponding portion of said tube but greater than the wall thickness of the tube.

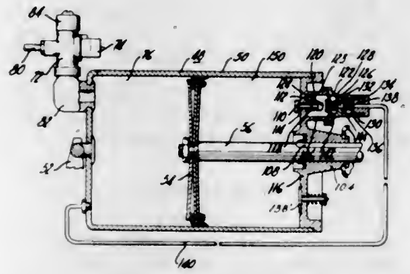
2,612,868
PNEUMATIC DROP HAMMER
Reginald P. Fitzgerald, Braintree, Mass., assignor to Pneumatic Drop Hammer Company, Braintree, Mass., a corporation of Massachusetts
Application March 3, 1948, Serial No. 12,707
10 Claims. (Cl. 121—30)

1. In a pneumatic drop hammer having an anvil, a frame mounted thereon having vertical columns for guiding the hammer connected at their upper end by an overhead beam, a hammer reciprocably mounted on said columns, and a cylinder mounted on said beam having a piston connected to the hammer, a conduit in said beam communicating at one end with the cylinder and at its other end with the atmosphere, a rotatable valve in said conduit having ports adapted respectively to be positioned to admit air into the cylinder or to permit escape of air from the cylinder and the hammer to drop, and means for supplying air under pressure to said valve, the provision of valve actuating mechanism comprising a rotatable vertical rod connected to and in axial alinement with said valve, and journaled at its lower end in said anvil, means rigid with the lower end of said rod having shoulders extending outwardly therefrom in different directions, a stop member rigid with said anvil positioned to engage one of said shoulders when the rod is rotated in a direction to position the valve ports to admit air into the cylinder, and a stop member adjustably mounted on said anvil adapted to be positioned in the path of the other shoulder so to limit the rotation of the rod



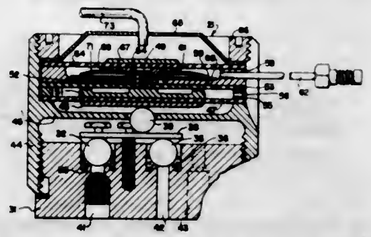
as to cause the ports of the valve so to restrict the escape of air from the cylinder as to cause the hammer to strike a blow of predetermined force.

2,612,869
CLUTCH CONTROL
Thomas H. Thomas, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 20, 1944, Serial No. 564,186
1 Claim. (Cl. 121—38)



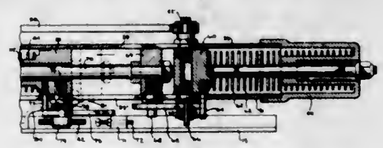
A stage type of pressure differential operated motor adapted for use in operating the friction clutch of an automotive vehicle comprising a double ended casing, a power element within the casing and combining therewith to provide two power fluid receiving control compartments, a three way control valve associated with one of the compartments and adapted to control the egress and ingress of power fluid into and from said compartment, valvular means, including a bleed valve mounted in one of the ends of the casing, for controlling the egress of power fluid from the other compartment, means, including a spring and a spring and fluid pressure operated motor, for controlling the operation of the bleed valve, and power operated means for controlling the operation of the latter motor including a pressure differential and spring operated valve and further including fluid transmitting means interconnecting the latter valve with the first mentioned control compartment.

2,612,870
PNEUMATIC CONTROL APPARATUS
Robert P. Roetter, Gary, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 1, 1949, Serial No. 119,175
8 Claims. (Cl. 121—41)



6. In a pneumatic reset relay, a valve unit comprising a base portion having supply and exhaust valve means therein, a flexible diaphragm mounted above said valve means and operably connected thereto, a second diaphragm spaced above said first normal diaphragm, a spacer including a partition having a relatively small central opening therein immediately above and in contact with said second diaphragm, means clamping the edge portions of said diaphragms to said unit, a pneumatic motor spaced above said second diaphragm and connected in operative relation therewith and to said flexible diaphragm and thereby connected in operative relation to said valve means, restricted air passage means from one side to the other of said flexible diaphragm, and a compression spring arranged between said partition member and said pneumatic motor.

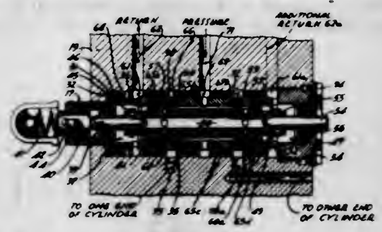
2,612,871
FLUID PRESSURE-OPERATED PISTON ASSEMBLY
Albert E. Weigele, Irvington, N. J., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass., a corporation of Delaware
Original application April 11, 1945, Serial No. 587,738. Divided and this application April 24, 1951, Serial No. 222,719
3 Claims. (Cl. 121—44)



1. A motive device as described, comprising a cylinder, a piston assembly in said cylinder, a plunger slidably mounted in an extension of said cylinder having provision for connection to a device to be operated, a latch member for connecting said plunger to said piston assembly, a second plunger for connection to said device, and a second latching device connecting said second plunger to said piston assembly.

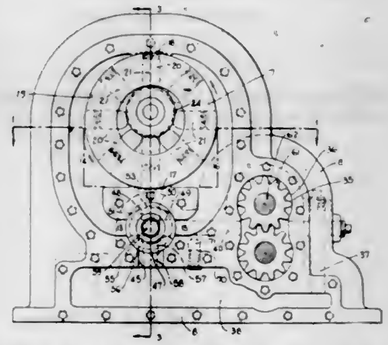
2,612,872
HYDRAULIC COUPLING VALVE
Chalmers A. Strayer, Wilmington, Calif., assignor to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application October 25, 1949, Serial No. 123,375
7 Claims. (Cl. 121—46.5)

1. A valve assembly comprising a hollow sleeve having a fluid pressure inlet therethrough, a fluid outlet, and two cylinder passages adapted to be connected, one with each side of a piston in a cylinder chamber, a spool member matching the interior of said sleeve and movable within said sleeve in either direction from a neutral position, each cylinder passage consisting of a plurality of metering holes through said sleeve around the periphery thereof and staggered lengthwise of said sleeve, said spool comprising two metering lands contacting the interior of said sleeve and spaced by the same distance as said two cylinder



passages, said fluid inlet communicating with one side of each metering land and said fluid outlet communicating with the other side of each metering land, said neutral position of said spool occurring where each of said metering lands covers all of the metering holes in each cylinder passage except the two holes of each passage which are farthest apart from each other longitudinally of said sleeve, these latter four holes being substantially bisected by the edges of said metering lands.

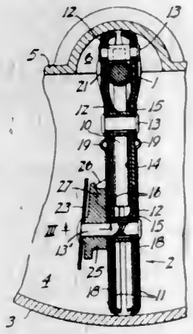
2,612,873
FLUID POWER CONVERSION APPARATUS
Jules G. Walter, Ridgewood, N. Y., assignor to Samcoe Holding Corporation, New York, N. Y., a corporation of New York
Application April 3, 1946, Serial No. 659,176
3 Claims. (Cl. 121—59)



1. A rotary hydraulic machine comprising a driven shaft, a rotor mounted on said shaft in annular formation with radially directed cylinders and pistons freely and independently mounted therein and projecting within said annular formation, a stator housing said rotor and having open-ended intake and exhaust chambers peripherally surrounding said rotor in communication with the outer ends of said cylinders and said pistons, a fixed member eccentrically positioned within said annular formation of said rotor and within the inner ends of said cylinders and having an outer piston-engaging ring running on anti-friction bearings, said pistons having curved end surfaces integral with and in fixed relation to said pistons in pivotal contact with said ring and closely approaching each other

in near contact adjacent the said ring and pressing against said ring on application of hydraulic pressure to said piston rotating said rotor and turning said piston about said contacting portion of said curved surfaces as the ring moves with said rotor and piston.

2,612,874
FLUID MOTOR
Raymond Deibel, East Aurora, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application July 23, 1949, Serial No. 106,356
6 Claims. (Cl. 121—97)



1. A fluid motor comprising an arcuate chamber, an oscillatory shaft journaled therein and formed with a radial recess, a piston movable back and forth in the chamber in fluid sealed contact with the chamber wall, said piston being in the form of a vane extending radially from the shaft and lying substantially in the plane of the axis of oscillation, and a radial crank pin secured in the recess of the shaft and having a play connection with the piston for limited radial movement in such plane.

2,612,875
PISTON PACKING
William Edward O'Shei, London, England
Application October 25, 1949, Serial No. 123,368
In Great Britain June 30, 1948
21 Claims. (Cl. 121—97)



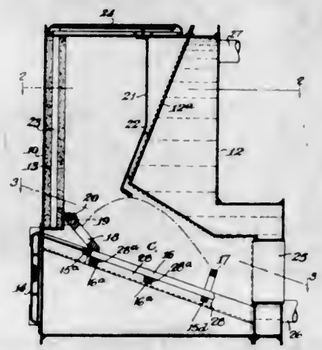
1. A fluid pressure motor of the oscillating paddle type comprising a paddle chamber and a paddle movable in said chamber, said paddle comprising a spacer having a pair of cupped packing members made of rubber-like material positioned on opposite sides of said spacer with their cuped edges facing towards one-another, and a pair of substantially rigid outer members secured respectively over the outer surfaces of the packing members, said outer members being of such a size that the clearance between the periphery of an outer member and the wall of the paddle chamber is insufficient to permit the flange to be sucked or otherwise moved so that it, or a part thereof, can face in the opposite direction to that in which it is designed to operate.

2,612,876
FLUID-ACTUATED RECIPROCATING SHOWER
Stephen Mahon, Fort Atkinson, Wis., assignor, by mesne assignments, to Charles A. Frankenhoff, Scarsdale, N. Y.
Application April 2, 1948, Serial No. 18,546
6 Claims. (Cl. 121—157)



1. A fluid-operated motor for effecting reciprocation of a fluid dispensing member comprising an elongated casing having a hydraulic actuator section at one end thereof, a fluid supply section at the opposite end thereof, and a reciprocable valve section intermediate said hydraulic actuator and fluid supply sections, a hollow piston rod extending into said casing through said hydraulic actuator section and terminating at an open end in said reciprocable valve section, a piston carried on said piston rod within said hydraulic actuator section for reciprocating movement therein, said piston rod being adapted to be coupled at its outer end to said fluid dispensing member, reversible valve structure disposed within said reciprocable valve section in flow communication with said hydraulic actuator and fluid supply sections for controlling the flow of a motive fluid alternately to and from opposite sides of said piston in said hydraulic actuator section, means for conducting fluid independently from said fluid supply section to said valve structure and to the open inner end of said piston rod, and means for commingling exhaust motive fluid from said valve structure with the fluid supplied to said piston rod.

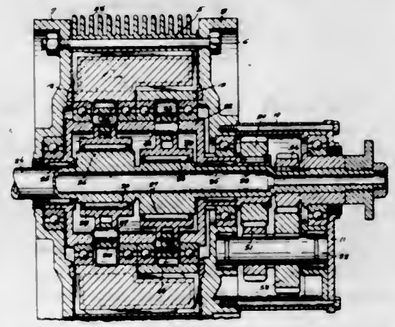
2,612,877
STOVE OR FURNACE FOR HEATING WATER
Rowland George Cubitt, Great Bookham, England
Application October 25, 1949, Serial No. 123,429
In Great Britain October 27, 1948
4 Claims. (Cl. 122—30)



1. A furnace for heating water comprising a front plate and side plates, a water back between the side plates and including a bottom wall declining rearwardly and a front wall rising upwardly and rearwardly therefrom, a baffle plate between the side plates spaced from the front wall of the water back and defining therewith

a downdraft air duct, the baffle plate terminating at its lower end in a lip spaced from the bottom wall of the water back and directing the draft substantially parallel to the water back bottom wall, grate means mounted between the lower parts of the side plates and declining rearwardly directly beneath the water back bottom wall, means defining air passages extending downwardly and opening directly above the forward end of the grate means, an outlet flue communicating with the combustion space between the grate and water back bottom wall and surrounded by water of the water back.

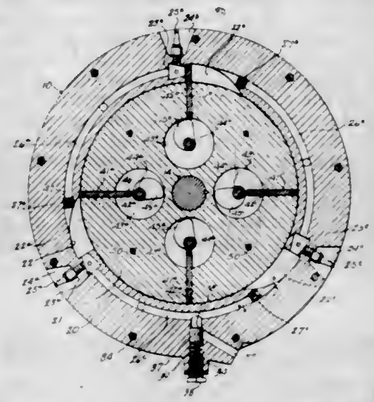
2,612,878
ROTARY INTERNAL-COMBUSTION ENGINE
Arthur O. Wilson, Okanogan, Wash., assignor of one-half to John Dwight Fisk, Seattle, Wash.
Application September 14, 1948, Serial No. 49,200
9 Claims. (Cl. 123—11)



1. In a rotary internal combustion engine, an engine case providing an annular working chamber, a main shaft journal-mounted in the case for rotary movement about an axis concentric thereto and formed to provide a pair of eccentrics occupying axially spaced positions within the working chamber, a pair of piston wheels each carrying a set of radial pistons and journal-mounted for rotary movement about an axis coinciding with that of the shaft, a carrier also received in the working chamber and likewise journal-mounted for rotary movement about the center of the shaft as an axis, sheaves working on the eccentrics, means connecting both sheaves to the rotary carrier and each sheave to a respective one of the two piston wheels for imparting relative rotary motion to the two sets of pistons in response to a rotary movement of the main shaft at a speed differing from that of the carrier, and connection between said shaft and the carrier for causing the one to turn at a different speed than the other.

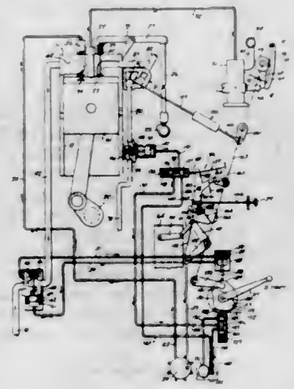
2,612,879
ROTARY INTERNAL-COMBUSTION ENGINE
Roger W. Hibbard, Quincy, Ill., assignor of thirty-five per cent to Elmo Tellbuescher, Quincy, Ill., and forty per cent to Everett Siegfried, Carthage, Ill.
Application September 26, 1950, Serial No. 186,800
5 Claims. (Cl. 123—16)

1. A rotary internal combustion engine comprising an annular stator having combustion chambers and tapered expansion chambers therein and having passages therein connecting each expansion chamber with an adjacent combustion chamber, a power shaft extending through said stator, end sections secured to said stator, bearings carried by said end sections rotatively supporting said shaft, a rotor mounted on said shaft and disposed within said stator, vanes carried by said rotor and movable into and out of said expansion chambers, electric ignition means connected with said combustion chambers, fuel injection means connected with said combustion chambers, engine driven supercharger means connected with said passages, check valves disposed one in each passage pre-



cluding flow of gas through each passage from the combustion chamber at one end to the expansion chamber at the other end of the passage while permitting flow of gas from the corresponding expansion chamber to the corresponding combustion chamber, and a relief valve connected with one of said passages for permitting the exhaust of gas above a predetermined pressure from said passages and combustion and expansion chambers.

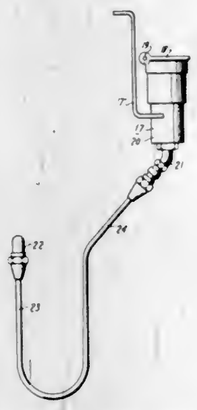
2,612,880
DUAL FUEL ENGINE
Clarence H. Schowalter, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application January 11, 1947, Serial No. 721,549
5 Claims. (Cl. 123—27)



1. In a dual fuel internal combustion engine of two-cycle type providing a cylinder and piston therein defining a cylinder combustion space, the cylinder having piston controlled air admission and exhaust ports, the combination therewith of an engine driven pump for the delivery of oil fuel to the cylinder combustion space, said pump hav-

ing a control element operable to vary pump fuel delivery, valve means for controlling delivery of gas fuel to the cylinder combustion space, an engine driven governor operable through at least two different control ranges, a member connected to said valve means and operable by said governor in one control range thereof, for actuating said valve means to control gas fuel delivery in accordance with engine load demands, means actuated by said member and engageable with said pump control element during governor operation in the other of its control ranges, to operate said control element for varying pump delivery of oil fuel in accordance with engine load demands, said member positioning said means out of engagement with the pump control element during operation of the member by the governor operating in said one control range thereof, and a control member engageable with said pump control element only when said means is out of engagement with the latter, for positioning the pump control element to determine pump delivery of oil fuel in pilot quantity sufficient to effect gas fuel ignition in the engine.

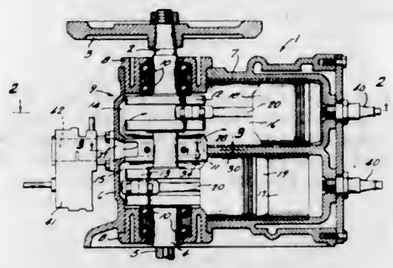
2,612,881
COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES
John C. Sionneger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corporation of Delaware
Application December 13, 1947, Serial No. 791,485
12 Claims. (Cl. 123—41.15)



10. A cooling system for internal combustion engines including, a cooling jacket vented to the atmosphere having a normal coolant level therein, an open top cup having its upper end above the elevation of said normal coolant level, the lower end of the cup being below said level, a spring-pressed lid for the cup, and a U-shaped tube communicating between the cup and the jacket, one leg of the tube being longer than the other and connected into the bottom of the cup, the shorter leg being connected into the jacket at a point substantially below the normal coolant level.

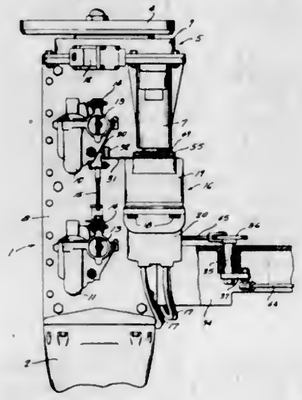
2,612,882
CRANKCASE INDUCTION VALVE FOR TWO-CYCLE ENGINES
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application September 23, 1949, Serial No. 117,325
6 Claims. (Cl. 123—73)

4. In a two-cycle internal-combustion engine including a crankshaft, a crankcase therefor receiving the fuel mixture for precompression, and at least two cylinders opening into said crankcase, a valve unit controlling the induction of fuel mixture into said crankcase comprising a valve body assembled on said crankshaft and disposed to divide said crankcase into individual crank chambers, said body being adapted to receive fuel mixture and having valve ports in opposite ends thereof arranged about



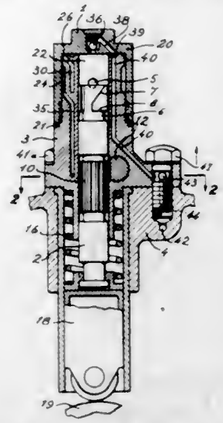
said crankshaft and opening into respective crank chambers, and flexible reed members carried by said valve body normally closing said ports and opening and closing the same in response to cyclic pressure variations in the respective chambers, at least one of said ports and reed members being disposed to direct the induction fuel mixture of a chamber into the corresponding cylinder.

2,612,883
MOUNTING AND CONTROL MEANS MAGNETO FOR ENGINES
Elmer C. Kiekhaefer, Cedarburg, Wis.
Application January 6, 1950, Serial No. 137.236
15 Claims. (Cl. 123—98)



1. In an internal-combustion engine, a magneto unit for said engine having a housing and a rotor shaft nominally rotatably supported within the housing, means rotatably carried and driven by said engine having connection at one end with a corresponding end of said rotor shaft and supporting by said connection the entire weight of said unit, and selectively adjustable means securing the housing of said unit against rotation with the rotor shaft thereof.

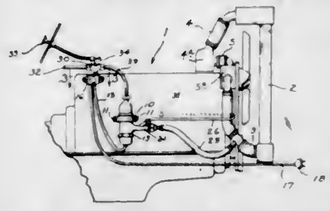
2,612,884
FUEL INJECTION PUMP
Ferdinando Carlo Reggio, Norwalk, Conn.
Original application February 3, 1939, Serial No. 254,355. Divided and this application August 6, 1947, Serial No. 766,580
12 Claims. (Cl. 123—139)



1. A fuel injection pump having a substantially cylindrical housing; a flange at one end of the housing perpendicular to the axis thereof for mounting the pump; a cylinder in said housing perpendicular to the flange; a plunger reciprocable in said cylinder; tappet means on the flange side of the plunger to impart reciprocating motion of constant stroke to the plunger; cooperating port and controlling edge means for bypassing fuel, whose relative adjustment determines the length of the effective delivery stroke of the plunger; means for altering the relative adjustment of said port and edge means to vary the fuel delivery of the pump; conduit means in said housing substantially parallel to the cylinder; threaded means including a coaxial resiliently loaded slidable check valve, first axial duct means for leading fuel to the check valve and second duct means having a radial component for leading fuel therefrom; said threaded means being mounted coaxially with the cylinder at the end thereof opposite to the flange to provide a pressure fuel connection through said first duct means, check valve and second duct means between the cylinder and said conduit means; peripherally spaced openings in said flange perpendicular to the latter for the insertion of mounting bolts; said conduit means being in fuel flow connection with one at least of said openings; and the mounting bolts being provided with axial and radial duct means, whereby a pressure tight fuel connection is established through said mounting bolts upon tightening of the latter.

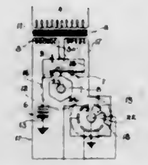
2,612,885
HEATER FOR INTERNAL-COMBUSTION ENGINES
Tracy W. Cox, Salem, Oreg., assignor to Cox Enterprises, Inc., Salem, Oreg., a corporation of Oregon
Application February 26, 1951, Serial No. 212,730
9 Claims. (Cl. 123—142.5)

3. A device for heating the liquid coolant carried in the thermostat controlled cooling jacket of an engine, comprising a vertical housing member having a hollow chamber communicating at the upper end thereof with the upper rear portion of said jacket and at the lower end thereof with a fluid conduit, respectively, said fluid conduit having means simultaneously for conveying said liquid coolant both from the top and the bottom of said jacket to said chamber to promote uniform heating of the engine, and means carried by said chamber to induce thermal circulation



through the jacket and conduits, said latter means being actuated by control means responsive to the temperature of said engine and preset to a temperature less than the actuation temperature of the thermostat control in said cooling jacket.

2,612,886
MAGNETO IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Eric Glen Mackay, Hawthorn, Victoria, Australia
Application June 21, 1949, Serial No. 100,466
In Australia August 5, 1948
12 Claims. (Cl. 123—148)

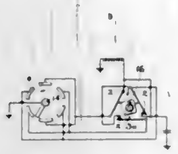


11. An improved magneto ignition system for internal combustion and like engines comprising a magneto having primary and secondary windings forming an induction coil and a battery source of direct current wired in circuit with said primary winding which consists of two substantially matched sections, a cam operated pair of relatively reciprocatory contacts, and a circuit changing rotary switch device for making and breaking the battery circuit through each of said sections alternately in such a manner that the battery current flows first in one direction in one of said sections and thence in the opposite direction in the other section to thereby alternately reverse the battery current flux in said induction coil, and means for synchronizing the movements of said rotary switch and reciprocatory contacts with the movements of the magneto shaft to thereby substantially match the reversing battery current flux in said induction coil with the alternating magneto flux therein.

2,612,887
IGNITION SYSTEM FOR INTERNAL-COMBUSTION AND LIKE ENGINES
Eric Glen Mackay, Hawthorn, Victoria, Australia
Application August 18, 1949, Serial No. 111,036
In Australia September 17, 1948
13 Claims. (Cl. 123—148)

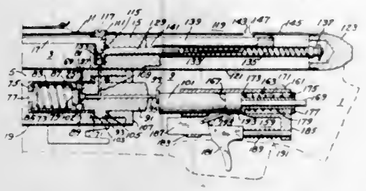
3. An improved ignition system for internal combustion and like engines comprising an induction coil having a primary winding which is

common to a plurality of circuits, a plurality of pairs of circuit breaker contacts which are relatively reciprocatory and mechanically operable, each pair of contacts being included in at least one of said circuits, separate circuit maker means which are also common to said circuits for completing each of them in sequence to the exclusion



of all others, and means for synchronizing the movements of said pairs of circuit breaker contacts and said circuit maker means whereby a greater output of electrical impulses is obtainable than would be possible if the ignition system included a single pair of contacts only for both making and breaking the primary circuit.

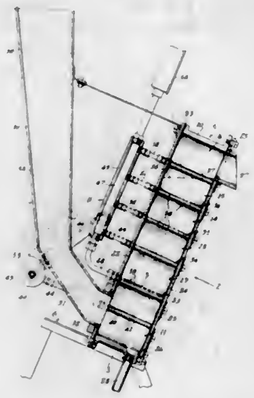
2,612,888
AIR GUN BREECH MAGAZINE
William S. Wells, Palo Alto, Calif., assignor to Paul S. Linforth, San Francisco, Calif.
Original application August 21, 1944, Serial No. 550,440. Divided and this application July 12, 1948, Serial No. 38,349
3 Claims. (Cl. 124—53)



1. In an air gun, a breech block having a feed passage therethrough leading to the loading position of a shot in said gun; a tubular housing extending rearwardly from said breech block and having a longitudinal opening therein, a tube extending rearwardly from said breech block within said housing and constituting a continuation of said feed passage, said tube having a longitudinal slit therein in registry with said housing opening, a breech pin in said feed passage and having a fin protruding through said slit, spring means behind said breech pin urging the same toward such loading position, a plurality of ratchet teeth disposed along the slit portion of said tube, and a thumb control pivotally secured to said fin and having a tail section removably engageable in said ratchet teeth.

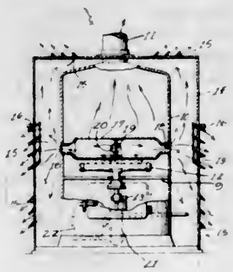
2,612,889
MICA SPLITTING APPARATUS
Moses D. Heyman, Woodmere, N. Y.
Application May 26, 1950, Serial No. 164,333
6 Claims. (Cl. 125—24)

1. In apparatus of the character described, a mica disintegrating unit comprising an elongated housing having a series of connected chambers for circulating pieces of mica in a liquid medium, said chambers being connected by restricted throats, the housing being provided with pairs of opposed lips defining said throats and one lip of each pair having a seat formed therein extending transversely of the housing, said unit being disposed so that the chambers are one above the other, and a liquid receiving tube



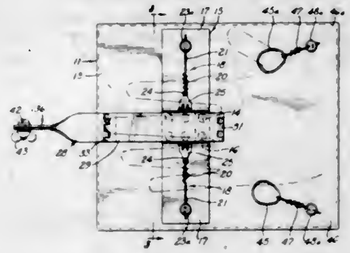
rotationally adjustably fitted in each seat and having a line of perforations directed to throw a line of jets of said liquid across each throat and tangentially against the wall defining the chamber therebelow.

2,612,890
HOT-AIR HEATING FURNACE
Joseph Delbert Harsh, Adel, Iowa
Application November 23, 1948, Serial No. 61,610
1 Claim. (Cl. 126—110)



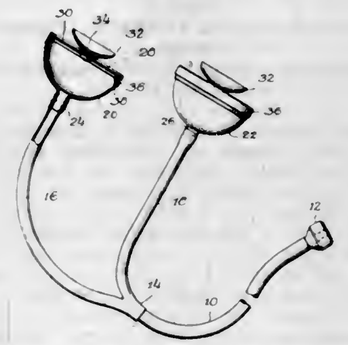
In a hot air heater, a casing having top, front, back and side walls, with the top and side walls provided with spaced groups of hot air outlets, a housing within the casing and having top, front, back and side walls spaced from the like walls of the casing, a horizontally disposed cylindrical chamber extending between the side walls of the housing in spaced centered relation with respect to the front and back walls and the top and bottom thereof and having restricted hot air outlets at its ends opening through the latter side walls, an air conduit leading inward of the back walls of the casing and housing and connecting with the chamber at its center, a baffle dividing the interior of the chamber in line with the vertical center of the end of the conduit which is connected to said chamber to direct the incoming air in opposite directions through the chamber, an elongated fluid fuel burner positioned lengthwise beneath the chamber, a flue extending upwardly from the top of the housing and through the top wall of the casing, means for force feeding unheated air into the chamber through the conduit, and other means for supplying a fluid fuel to the burner.

2,612,891
ADJUSTABLE SUPPORT FOR FINGER SURGERY
Maurice C. Smith, Redlands, Calif.
Application July 10, 1950, Serial No. 172,950
10 Claims. (Cl. 128—20)



1. In an appliance for finger surgery the combination of: finger supporting means for positioning a subject finger of the human hand in an elevated position relative to the remainder of the hand for surgery thereon; and a finger depressing bar adapted to limit the movement of the remaining fingers of the hand toward said subject finger.

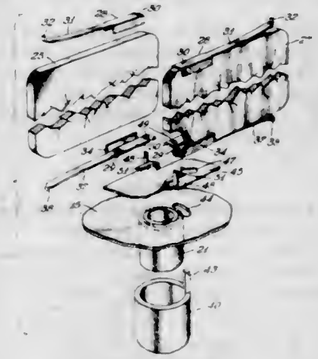
2,612,892
SUCTION AND FLUSHING MASSAGE DEVICE
Dorothy Beatman, Chicago, Ill.
Application April 27, 1949, Serial No. 89,979
3 Claims. (Cl. 128—66)



1. An improved massage and therapeutic device comprising a hose, a means on one end of said hose to attach it to a source of supply of fluid, the other end of said hose terminating in a bifurcated assembly of at least two therapeutic heads, each of the said heads comprising a plate, a means to spray water through said plate, and a suction cup attached to central portion of the plate of the said means to spray water, the said suction cup protruding beyond the said plate whereby suction and fluid spray can be applied simultaneously to different adjacent areas of the body.

2,612,893
OPTICAL INSTRUMENT
Otto R. Engelmann, Chicago, Ill.
Application July 5, 1949, Serial No. 103,123
11 Claims. (Cl. 128—76.5)

1. In an optical instrument of the character described, a supporting structure including a housing defining a chamber, said housing having spaced walls with respective apertures therein laterally offset relative to one another, a pair of mirrors mounted on said supporting structure with the reflective faces of the mirrors disposed in generally offset relation conformable to the offset relation of said apertures but in mutual light-reflecting relation so that an image of a target entering one of said apertures onto one of the mirrors will be reflected to and visible on the other of the mirrors through the other of said apertures, a handle for carrying said supporting structure manually, means for varying the reflecting angle of at least one of said mirrors with



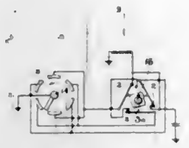
respect to the other of said mirrors and including a manually movable member having a portion spaced a substantial distance from the mirrors and manipulable to move relative to the handle while the instrument is held by said handle in position relative to the eye of a user for viewing the image reflected by the mirrors, and an actuated member operatively connecting said manually movable member and the movable mirror and movable relative to the handle by movement of said manually movable member.

2,612,894
NASAL CLEANSING DEVICE
Stephen A. Akins, Kansas City, Mo.
Application May 3, 1948, Serial No. 24,759
5 Claims. (Cl. 128—250)



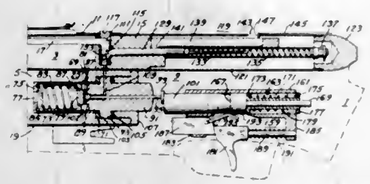
1. A nasal cleaning device comprising an imperforate pilot provided at its lower portion with a flexible skirt, a cleaning member tapered toward each end and arranged below said pilot provided with a plurality of discharge ports within said skirt, and means communicating with said cleaning member and adapted to force a liquid through said discharge ports and against the inner surface of the skirt.

common to a plurality of circuits, a plurality of pairs of circuit breaker contacts which are relatively reciprocatory and mechanically operable, each pair of contacts being included in at least one of said circuits, separate circuit maker means which are also common to said circuits for completing each of them in sequence to the exclusion



of all others, and means for synchronizing the movements of said pairs of circuit breaker contacts and said circuit maker means whereby a greater output of electrical impulses is obtainable than would be possible if the ignition system included a single pair of contacts only for both making and breaking the primary circuit.

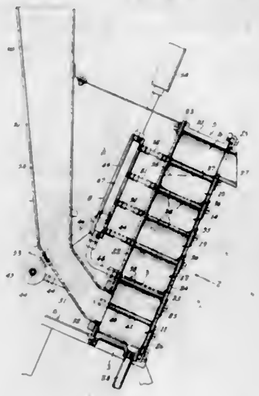
2,612,888
AIR GUN BREECH MAGAZINE
William S. Wells, Palo Alto, Calif., assignor to Paul S. Linforth, San Francisco, Calif.
Original application August 21, 1944, Serial No. 550,440. Divided and this application July 12, 1948, Serial No. 38,349
3 Claims. (Cl. 124—53)



1. In an air gun, a breech block having a feed passage therethrough leading to the loading position of a shot in said gun; a tubular housing extending rearwardly from said breech block and having a longitudinal opening therein, a tube extending rearwardly from said breech block within said housing and constituting a continuation of said feed passage, said tube having a longitudinal slit therein in registry with said housing opening, a breech pin in said feed passage and having a fin protruding through said slit, spring means behind said breech pin urging the same toward such loading position, a plurality of ratchet teeth disposed along the slit portion of said tube, and a thumb control pivotally secured to said fin and having a tail section removably engageable in said ratchet teeth.

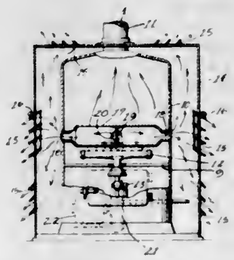
2,612,889
MICA SPLITTING APPARATUS
Moses D. Heyman, Woodmere, N. Y.
Application May 26, 1950, Serial No. 164,333
6 Claims. (Cl. 125—24)

1. In apparatus of the character described, a mica disintegrating unit comprising an elongated housing having a series of connected chambers for circulating pieces of mica in a liquid medium, said chambers being connected by restricted throats, the housing being provided with pairs of opposed lips defining said throats and one lip of each pair having a seat formed therein extending transversely of the housing, said unit being disposed so that the chambers are one above the other, and a liquid receiving tube



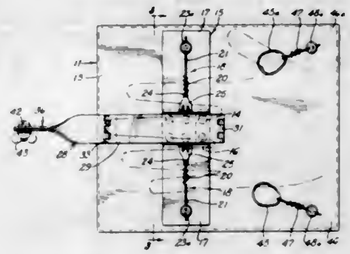
rotationally adjustably fitted in each seat and having a line of perforations directed to throw a line of jets of said liquid across each throat and tangentially against the wall defining the chamber therebelow.

2,612,890
HOT-AIR HEATING FURNACE
Joseph Delbert Harsh, Adel, Iowa
Application November 23, 1948, Serial No. 61,610
1 Claim. (Cl. 126—110)



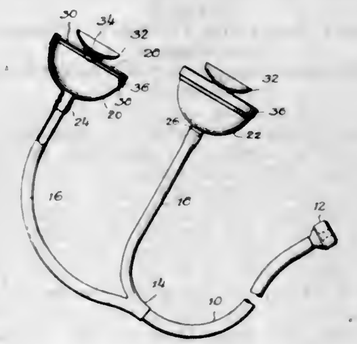
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2,612,891
ADJUSTABLE SUPPORT FOR FINGER SURGERY
Maurice C. Smith, Redlands, Calif.
Application July 10, 1950, Serial No. 172,950
10 Claims. (Cl. 128—20)



1. In an appliance for finger surgery the combination of: finger supporting means for positioning a subject finger of the human hand in an elevated position relative to the remainder of the hand for surgery thereon; and a finger depressing bar adapted to limit the movement of the remaining fingers of the hand toward said subject finger.

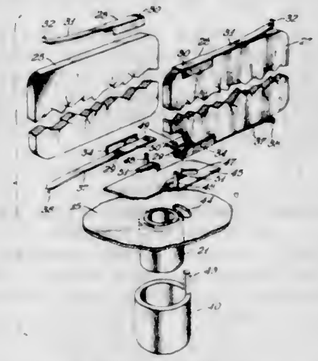
2,612,892
SUCTION AND FLUSHING MASSAGE DEVICE
Dorothy Beatman, Chicago, Ill.
Application April 27, 1949, Serial No. 89,979
3 Claims. (Cl. 128—66)



1. An improved massage and therapeutic device comprising a hose, a means on one end of said hose to attach it to a source of supply of fluid, the other end of said hose terminating in a bifurcated assembly of at least two therapeutic heads, each of the said heads comprising a plate, a means to spray water through said plate, and a suction cup attached to central portion of the plate of the said means to spray water, the said suction cup protruding beyond the said plate whereby suction and fluid spray can be applied simultaneously to different adjacent areas of the body.

2,612,893
OPTICAL INSTRUMENT
Otto R. Engelmann, Chicago, Ill.
Application July 5, 1949, Serial No. 103,123
11 Claims. (Cl. 128—76.5)

1. In an optical instrument of the character described, a supporting structure including a housing defining a chamber, said housing having spaced walls with respective apertures therein laterally offset relative to one another, a pair of mirrors mounted on said supporting structure with the reflective faces of the mirrors disposed in generally offset relation conformable to the offset relation of said apertures but in mutual light-reflecting relation so that an image of a target entering one of said apertures onto one of the mirrors will be reflected to and visible on the other of the mirrors through the other of said apertures, a handle for carrying said supporting structure manually, means for varying the reflecting angle of at least one of said mirrors with



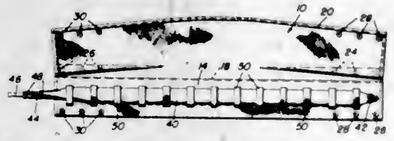
respect to the other of said mirrors and including a manually movable member having a portion spaced a substantial distance from the mirrors and manipulable to move relative to the handle while the instrument is held by said handle in position relative to the eye of a user for viewing the image reflected by the mirrors, and an actuated member operatively connecting said manually movable member and the movable mirror and movable relative to the handle by movement of said manually movable member.

2,612,894
NASAL CLEANSING DEVICE
Stephen A. Akins, Kansas City, Mo.
Application May 3, 1948, Serial No. 24,759
5 Claims. (Cl. 128—250)



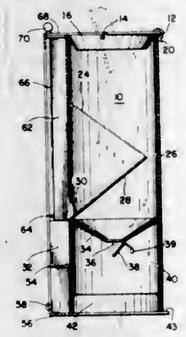
1. A nasal cleaning device comprising an imperforate pilot provided at its lower portion with a flexible skirt, a cleaning member tapered toward each end and arranged below said pilot provided with a plurality of discharge ports within said skirt, and means communicating with said cleaning member and adapted to force a liquid through said discharge ports and against the inner surface of the skirt.

2,612,895
SURGICAL DRAINAGE COLLECTION BELT
Richard B. Magee, Altoona, Pa.
Application February 26, 1951, Serial No. 212,707
6 Claims. (Cl. 128—275)



1. A surgical device comprising a belt, said belt having a pocket therein, a flexible receptacle disposed in said pocket loops releasably holding said receptable in said pocket, and an inlet tube connected to said receptacle and extending outwardly from said pocket.

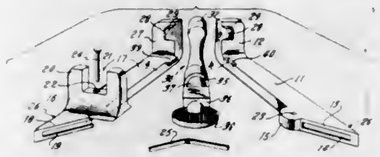
2,612,896
CIGARETTE SNUFFER WITH SAND RENEWING MEANS
Marvin C. Fox, Seattle, Wash., assignor of one-half to William O. Young, Seattle, Wash.
Application May 16, 1949, Serial No. 93,566
5 Claims. (Cl. 131—235)



1. A cigarette snuffer with sand renewing means, comprising: a supporting housing; a sand receiving tray supported at the top of said supporting housing adapted to be substantially filled with sand; discharge means for discharging the contents of said tray downwardly into said supporting housing and separating means for separating debris of larger size than the sand particles in said contents from sand in said contents and directing the separated sand to one side; a sand bucket and guide means hingedly secured to the bottom of said bucket; a sand bucket housing positioned at one side of said supporting housing and providing a vertical guideway for said guide means so that said sand bucket can travel from a lower position in which said sand bucket is disposed to receive said separated sand to an upper position where said sand bucket can be pivoted on said guide means and said separated sand can be dumped back into said sand receiving tray; and an elongated operating handle hingedly secured to the upper portion of said bucket for moving said sand bucket between its upper and lower positions.

2,612,897
DEVICE FOR STRAIGHTENING AND CURLING HAIR
Frances Bourland, Grand Prairie, Tex.
Application August 23, 1951, Serial No. 243,248
6 Claims. (Cl. 132—40)

1. In a device for curling and straightening hair, a clamp comprising a pair of arms pivoted adjacent one end, each having an upturned end opposite its pivotal point, a split tapered spindle in equal half-sections, one half section being formed on one upturned end of one of said arms, the other half-section being formed on the upturned end of the companion arm, a squared portion formed at the base of each of said half-sections, an ear formed on one of said arms having a square recess disposed over the pivot of said arms, a slotted roller having a head pro-



vided with a recess having a tapered portion adapted in one position of said roller to rotatably receive said tapered spindle and a squared portion adapted to receive the squared portion of said spindle in another position of said roller to secure said arms in clamping relationship and to prohibit rotation of said roller and means on said roller engageable with the squared recess of said ear to hold said roller against rotative and lateral displacement with respect to said clamp.

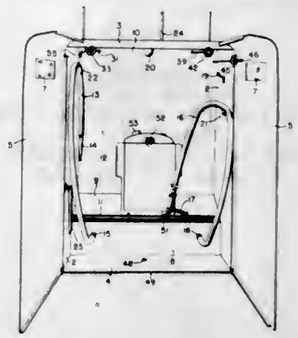
2,612,898
CLEANING OF MANUFACTURED JEWELRY PARTS
John V. Lorea and Thomas F. O'Rourke, Providence, R. I.
No Drawing. Application November 8, 1945, Serial No. 627,520
6 Claims. (Cl. 134—2)

1. The method of chemically cleaning metal jewelry parts made of gold-filled, karat gold, silver, brass, brass alloys and the like to remove oxidation, comprising the steps of immersing the jewelry parts in a solution containing when prepared five to ten ounces by weight of alkali metal cyanide and hydrogen peroxide equivalent to 600 to 800 cc. of 33% solution per 3½ gallons of water, and agitating the jewelry parts while immersed, the time of immersion and agitation being not more than fifteen minutes.

2,612,899
RADIATOR BACK FLUSH AND CLEANING BOOTH
Earle Grant Webb, Bellevue, Nebr., assignor, by mesne assignments, to Inland Manufacturing Company, Omaha, Nebr., a corporation of Nebraska
Application November 9, 1946, Serial No. 709,078
2 Claims. (Cl. 134—102)

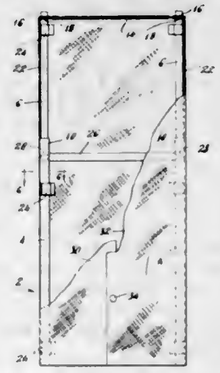
1. A device for cleaning the radiator of an internal combustion engine, said radiator comprising upper and lower liquid connections, external fins and internal passages, said device comprising a cabinet for supporting said radiator interiorly thereof, said cabinet comprising top, bottom and side walls together with a vertical wall extending between the front and rear of said cabinet and having a bottom portion offset forwardly to define a forwardly sloping support for said radiator in erect position above said bottom wall, said vertical wall subdividing said cabinet into front and rear compartments open, respectively, to the front and rear of said cabinet, said rear compartment having a forward

portion extending below a rear portion of said forward compartment, said bottom wall having an upstanding front flange and being apertured between said flange and said vertical wall, movable closure means for said front compartment, a first conduit for cleaning liquid extending in said rear compartment through said offset vertical wall portion, a second flexible conduit in said front compartment connected to said first



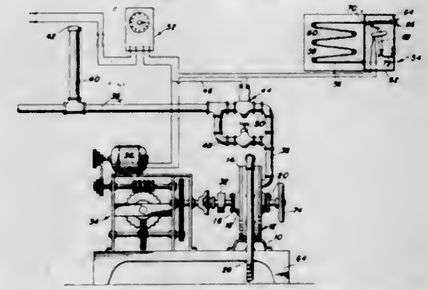
conduit, means for removably connecting said second conduit to a radiator liquid connection, a check valve in said first conduit permitting fluid flow therethrough only into said second conduit, a conduit for compressed air in said rear compartment connected to said first liquid conduit, and means accessible from the front of said cabinet for controlling the flow of fluid through said first conduit and through said air conduit.

2,612,900
COLLAPSIBLE AND PORTABLE DRESSING ROOM
Helen Treppa, Los Angeles, Calif.
Application June 10, 1950, Serial No. 167,379
1 Claim. (Cl. 135—5)



A device of the character described comprising four upright tubular members having lateral perforations in their upper portions, horizontal spacing members having their ends detachably connected to pairs of said tubular members and being rightangularly disposed to each other, a tube being slidable in each of said tubular members and having in one end portion a lateral perforation, while its other end portion is provided with a notch, a pin being radially slidable in each of the lateral perforations of said tubes and adapted for extending into the lateral perforation at the upper end of one of said tubular members, resilient means provided in said tubes being adapted for forcing said pins through the lateral perforations of said tube into the lateral perforations of said tubular members so that each of said tubular members forms with each of said tubes partially extended therefrom an upright post, and said posts forming with said spacing members a right-angular upright frame work, an upright sheet encompassing said frame work on its rear and side portions and having its end portions partially overlapping each other extended over the front portion of said frame work, means for detachably fastening to each other the overlapping ends of said sheet being provided thereon, straps having their ends secured to portions of the inner side of said sheet and encompassing portions of said posts extended between the main portions of said straps and the inner side of said sheet, a horizontal sheet having perforated corner portions in registering alignment with the upper ends of tubes, grommets through which extend the upper ends of said tubes and which engage the notches on said tubes being secured to the perforated corner portions of said horizontal sheet, and reinforcement strips extending from said grommets being secured to the edges of said horizontal sheet.

2,612,901
TIME AND HUMIDITY CONTROLLED FLUID DISPENSING SYSTEM
Peter J. Milano, Salt Lake City, Utah
Application June 5, 1947, Serial No. 752,745
5 Claims. (Cl. 137—78)

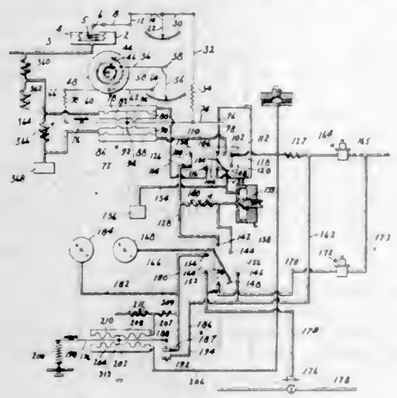


1. An automatic fluid dispensing apparatus comprising, a distributor housing, a plurality of delivery pipes leading outwardly from said housing, a disc-like distributor valve rotatably mounted in said housing and having an annular flange, said annular flange having an arcuate opening for communicating with said delivery pipes sequentially, means for rotating said valve, an electrical time mechanism operatively connected to and controlling said valve rotating means, a supply pipe connected to said housing for supplying a fluid to said valve, a further valve controlling the flow of fluid through said supply pipe, means responsive to the moisture content of a surrounding gaseous medium and operatively connected to said further valve and to said first-mentioned connection for actuating said further valve, a by-pass about said further valve, and a manually operated valve controlling said by-pass.

2,612,902
APPARATUS FOR MEASUREMENT AND CONTROL
Charles F. Ward, Narberth, Pa., assignor, by mesne assignments, to Reconstruction Finance Corporation, Philadelphia, Pa., a corporation of the United States
Application July 13, 1946, Serial No. 683,296
15 Claims. (Cl. 137—82)

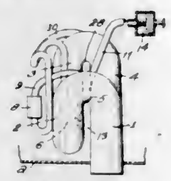
2. In combination, means automatically operating to provide a variable fluid pressure in ac-

cordance with changes of a variable, manually adjustable means for concurrently providing a second fluid pressure, means responsive to fluid pressure, a gauge continuously responsive to the first mentioned variable fluid pressure, a second gauge, and valve means and connections thereto, said valve means having two positions, in one of which it provides direct fluid connection between said automatically operating means and said responsive means to effect automatic operation thereof by the first mentioned fluid pressure and provides connection between the second



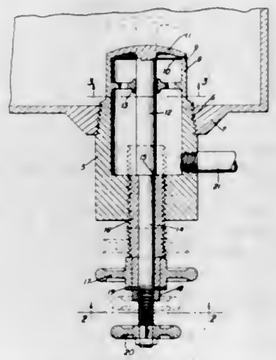
mentioned pressure gauge and said manually adjustable means so that by manual adjustment of the latter the pressure indications of said gauges may be equalized, and in the second of which it provides connection between said responsive means, said manually adjustable means and said second mentioned pressure gauge, and cuts the connection between said automatically operating means and said responsive means so that said responsive means is subject to control by said manually adjustable means, and said second mentioned pressure gauge indicates the pressure applied to the responsive means.

2,612,903
DOUBLE SIPHON
Fernando de Enciso y Carnerero, Madrid, Spain
Application June 4, 1946, Serial No. 674,346
In Spain May 4, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires May 4, 1965
9 Claims. (Cl. 137—133)



2. A compound siphon comprising two siphons connected in series and each including spaced parallel vertical legs and an upper bend, the second siphon having legs of greater vertical extent than and parallel to the legs of the first siphon, the bend of the second siphon being disposed at a higher level than the bend of the first siphon, a tube providing communication between the upper bends of the siphons, said tube having an enlarged portion therein adjacent the first siphon constituting a chamber parallel to the legs thereof, said tube further including a portion extending downwardly from said chamber, a reverse bend, and a portion extending upwardly therefrom toward the bend of the second siphon and communicating therewith at a point above the upper portion of the first siphon, said tube and enlarged portion therein constituting a vent tube eliminating intermittent leakage and permitting rapid exhaustion of the entrapped air plug lying between the siphons.

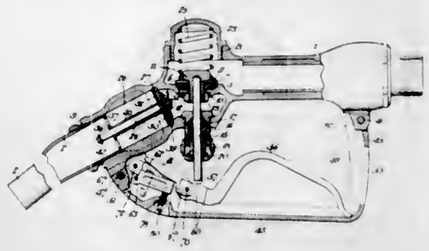
2,612,904
DRAIN VALVE
John W. Richards and Barnie G. Harris, Pampa, Tex.
Application February 10, 1950, Serial No. 143,508
1 Claim. (Cl. 137—333)



A drain valve comprising a valve body having an externally threaded portion intermediate its ends adapted for attaching to a tank with its inner end projecting into the tank, said valve body having a drain port in its outer end, a sleeve coaxial with the body and threaded in the outer end of the body, a valve stem axially movably disposed in the sleeve and projecting into said body farther than said sleeve, means operable from outside of said valve body for releasably locking the stem to the sleeve for uniform rotary and longitudinal movement therewith, a spider fixed to said body and located near the inner end of said body, said spider having an opening through which said stem passes to guide said stem and to serve as a means for aiding in preventing said stem from flexing, a valve seat at the inner end of said body, a valve head on the inner end of the stem and adapted to engage the seat, and independently manually operable means on the outer end of the sleeve and on the outer end of the stem for selectively turning the sleeve and stem.

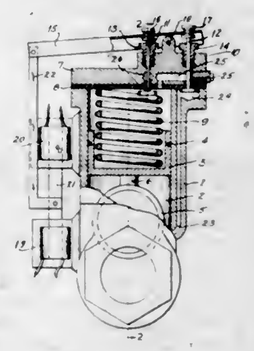
2,612,905
LEVER ACTUATED VALVE WITH SHIFTING FULCRUM
David S. Willson, Muskegon Heights, Mich., assignor to John Wood Company, a corporation of Delaware
Application December 6, 1947, Serial No. 790,172
6 Claims. (Cl. 137—382)

1. In a liquid dispensing nozzle; the combination with a main valve, including a valve push rod having a valve member, for controlling the passage of liquid through said nozzle; of a lever, including a curved fulcrum portion, said lever adapted to engage and move said push rod for opening said valve member; an adjustment fulcrum block engaged by said lever fulcrum portion, said lever being pivoted intermediate its ends at a point between said fulcrum block and said push rod, whereby the fulcrum is shifted progressively on the surface of said fulcrum block to vary the effective leverage of said lever with respect to said valve, with maximum lever-



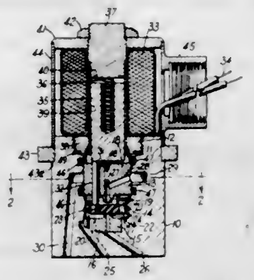
age afforded to initially displace said valve from its seat and with said leverage decreasing as said valve is displaced from its seat; pivot means for said fulcrum block; and means for effecting adjustable movement of said fulcrum block to predetermined position on said fulcrum block pivot means.

2,612,906
PRESSURE FLUID ACTUATED OPERATOR FOR PIPE LINE VALVES
Homer J. Shafer, Mansfield, Ohio, assignor to The Shafer Valve Co., Mansfield, Ohio, a corporation of Ohio
Application June 1, 1946, Serial No. 673,787
1 Claim. (Cl. 137—657)



A valve connectable in a pressure fluid conduit comprising a housing having a cylinder provided with a bore and a pressure fluid conducting passageway for association with the conduit; a cylinder head faced with gasket material for said cylinder; a reciprocable piston in said cylinder; a valve gate connected to said piston, the reciprocable movement of said piston opening and closing said gate; a pair of poppet valves in said head, one to control the admission to and the other to control the exhaust from said cylinder of pressure fluid to control the motion of said piston; a simple lever to selectively control said poppet valve means; a double solenoid for reversely actuating said lever, said piston when engaging said gasket acting as a seal to prevent the leakage of pressure fluid from the conduit; and spring means to close the valve gate when equal pressures act on both ends of said piston.

2,612,907
VALVE CONSTRUCTION
Dwight E. Harris, Stamford, Conn., assignor to The Skinner Chuck Company, Norwalk, Conn., a corporation of Connecticut
Application December 19, 1950, Serial No. 201,620
2 Claims. (Cl. 137—719)

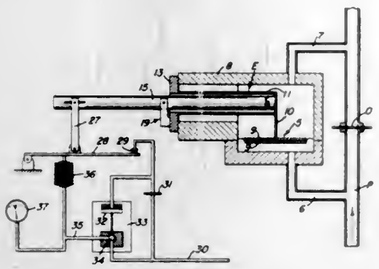


1. A valve mechanism comprising a base having a cylindrical recess terminating in one surface thereof and having sections of different diameter such that an annular shelf is defined in the wall of the recess, a cylindrical block snugly fitting the cylindrical walls of said recess and resting on the shelf so that a cylindrical valve chamber is defined between the bottom walls of said recess and block, annular recesses in the wall of the cylindrical recess and resilient sealing rings in the annular recesses sealing the juncture of the cylindrical recess and block, a first conduit in said base between the outside of said base and said valve chamber, a first valve seat in the bottom of said recess, a second conduit in said base between the outside of said base and said valve chamber through said first valve seat, a second valve seat in the lower wall of said block, an annular recess chamber in the wall of said cylindrical recess and channels in said block and base communicating with said annular recess chamber, said annular recess chamber and channels defining a third conduit between said second valve seat and the outside of said base, a valve head in said valve chamber movable axially thereof so as to engage selectably one of said valve seats while disengaging the other, spring means biasing said valve head toward engagement with one of said valve seats, and means for moving said valve head toward engagement with the other of said seats against the biasing force of said biasing means comprising slidable connecting rod means extending through and between the end faces of said block and contacting said valve head—all whereby said valve head may be selectably engaged with said first valve seat while disengaging said second valve seat to permit fluid flow between said first and third conduit through said valve chamber and with said second valve seat while disengaging said first valve seat to permit fluid flow between said first and second conduits through said valve chamber.

2,612,908
DIFFERENTIAL PRESSURE SENSING UNIT
Kenneth L. Tate and Floyd B. Newell, Rochester, N. Y., assignors to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application November 15, 1951, Serial No. 256,554
4 Claims. (Cl. 137—780)

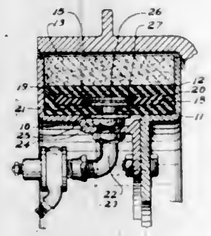
1. In a differential pressure sensing unit, a hollow casing having relatively thick walls, a

diaphragm dividing said casing into two separate closed chambers, means for introducing fluid under relatively high pressure to both chambers, the pressure in one chamber being somewhat less than that in the other, said casing having an opening therein communicating with one of said chambers, a hollow tube sealed at one end portion to the wall of the casing around said opening, the second end of the tube projecting



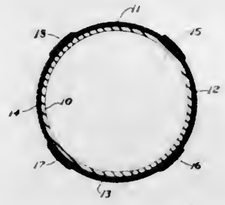
into said last mentioned chamber in operative relation to one surface of said diaphragm, means connecting the second end of the tube to the diaphragm, a rod within said tube and sealed at one of its ends to the second end of the tube, the second end of said rod projecting beyond said tube to the outside of the casing, a pivot supporting said rod at an intermediate point thereof and mechanism actuated by the second end of said rod.

2,612,909
EXPANDER FOR BRAKES AND CLUTCHES
Russell J. Keller, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application November 23, 1946, Serial No. 711,947
9 Claims. (Cl. 137—784)



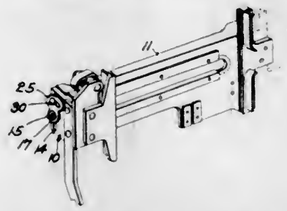
1. An expander for applying pressure to a brake or the like, said expander comprising a normally flat annular body of rubber-like material having a circumferential fluid-receiving cavity therein, and an annular core within said cavity, said core comprising a band of stiff material having beaded lateral margins and an outer peripheral surface therebetween depressed below said margins, said body having a radially displaceable surface substantially complementary to and closely conforming to and contacting said core throughout its peripheral surface in the deflated unstrained condition of the expander and separable from said core in the radial direction by inflating pressure of the expander fluid, and means on said body for supplying fluid under pressure to said fluid-receiving cavity.

2,612,910
FLEXIBLE HOSE
Carroll P. Krupp, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application November 12, 1948, Serial No. 59,500
10 Claims. (Cl. 138—55)



4. A flexible hose comprising a tubular wall of strips of woven fabric extending longitudinally of the hose with their margins in overlapping relation and providing seams spaced apart uniformly throughout the circumference of the hose, and overlapping seams being of equal extensibility and the material between successive seams being of uniform thickness and extensibility, said wall being at least equal in thickness to two of said strips at all positions between said seams.

2,612,911
HOLDING MEANS FOR LOOM BUSHINGS
Woodrow W. Usry, Langley, S. C.
Application June 20, 1951, Serial No. 232,504
2 Claims. (Cl. 139—158)

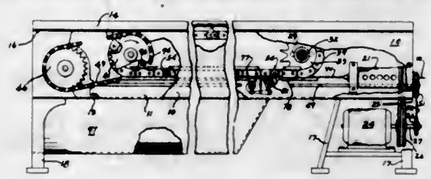


1. Means for holding in a slotted lay end-plate a screw threaded bushing which supports one end of a guiding spindle for a picker, the bushing having a flat faced wrench-engaging head, said means comprising a substantially flat and elongated plate having at one end a flat-walled opening shaped to fit the head of the bushing and at its other end an arcuate slot concentric with said opening and disposable in intersecting relation with the slot in the lay end-plate, and a screw threaded fastening to be positioned in the intersecting slots for clamping said plate against the lay end-plate.

2,612,912
MACHINE FOR STRAIGHTENING AND CUTTING WIRE
Oliver R. Brekle, Birmingham, Ala., assignor to M and B Metal Products Company, Birmingham, Ala., a partnership
Application August 26, 1948, Serial No. 46,295
8 Claims. (Cl. 140—140)

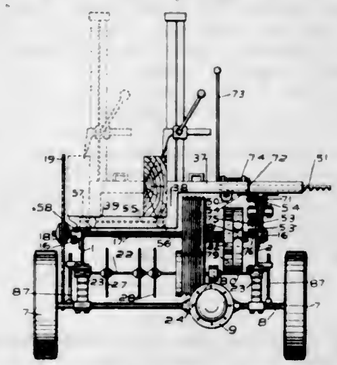
1. In apparatus for cutting wire into sections of predetermined length, a frame, an endless chain, a sprocket rotatably mounted on the frame supporting the chain for movement with its flights in superposed relation, forward and rear releasable wire gripping units mounted in spaced relation on the chain, means to hold the wire in

position to be engaged by the gripping units, means responsive to movement of the chain causing said units to grip the wire, a rotatable knife mounted on the frame operable to cut the wire



adjacent the forward gripping unit while held by said gripping units, and means responsive to movement of the chain to release the severed section of wire from the rearward gripping unit after the wire is cut by said knife.

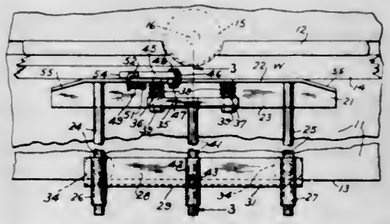
2,612,913
PORTABLE SAWMILL WITH CARRIAGE TRAVELING OVER HUSK
Arthur John Bach, Lumby, British Columbia, Canada
Application November 18, 1949, Serial No. 128,032
In Canada November 19, 1948
3 Claims. (Cl. 143—105)



1. In a sawmill a frame, a log saw mandrel shaft in the frame and a saw on the shaft, a motor, means connecting said shaft to be driven from the motor, said motor and driving means being carried on one side of a substantially medial line lengthwise of the frame, a carriage mounted for travel on the frame, said carriage providing upper and lower horizontal levels extending one on each side of a vertical substantially medial plane longitudinal of the carriage with the upper level adapted for travel over the motor and driving means, head blocks for the carriage, means mounting said head blocks for travel as a unit movable across the carriage, said lower level being adapted to carry the material to be sawed thereon, means for effecting movement of the head block unit, and means for driving the carriage in either direction including manual controls therefor.

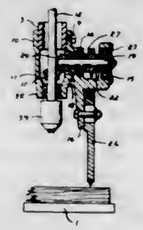
2,612,914
SAFETY DEVICE FOR WOODWORKING MACHINES
Fred P. Reynolds, Hamden, Conn., assignor to Gesner Machine Company, Hamden, Conn., a corporation of Connecticut
Application October 4, 1949, Serial No. 119,421
4 Claims. (Cl. 143—174)

4. In a safety device for a wood working machine which latter includes a work supporting table having an upper surface and a front edge, a work guiding fence substantially parallel with the table front edge and at right angles to the table upper surface, and a cutter to operate on work moved along the table and guided by said fence, a bar slidable on said table toward and away from said fence to permit work to be disposed therebetween, an elongated channel shaped member embracing the front edge of said table with one leg of said member resting on the table upper surface, a clamp screwed through the other leg of said member to engage the undersurface of the table to secure the member thereto, a sleeve secured to and disposed adjacent each end of said member, a rod extending forwardly at each end of said bar and in fixed relation thereto, said rods overlying said table upper surface and being slidingly received one in each sleeve, a third sleeve secured to and disposed



intermediate the ends of said member, an adjusting rod having one of its ends slidingly received in said third sleeve, a plate in fixed relation to the other end of said adjusting rod, a compression spring disposed between each end of said plate and said bar, a threaded stud extending from said bar and through each spring and each end of said plate, an adjusting nut threaded on the end of each stud outside of said plate to adjust the bar laterally of said plate to vary the compression of said springs, and means to clamp said adjusting rod to said third sleeve, a strip secured to and extending vertically from said bar, an arm pivoted to the upper end of said strip, and a spring reacting between said bar and the lower end of said arm to urge it downwardly, the lower end of said arm being cam shaped to engage work between said bar and said fence and prevent kick-back of said work.

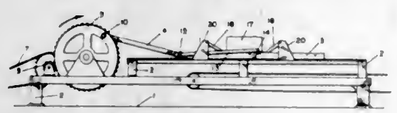
2,612,915
MORTISING ATTACHMENT FOR DRILL PRESSES
William N. Moss, Vancouver, British Columbia, Canada
Application October 6, 1948, Serial No. 53,069
1 Claim. (Cl. 144—72)



A chain mortising attachment for a drill press having a head, a quill and a drill spindle, said attachment comprising a sleeve adapted for attachment to the lower end of said quill and having a bearing at its lower end through which the

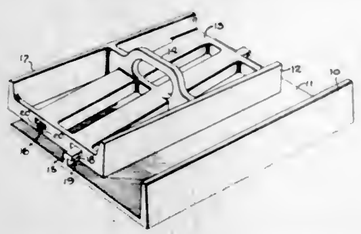
lower end of the drill spindle projects, a horizontal shaft carried by said sleeve, said shaft being mitre gear driven from the drill spindle, a sprocket secured adjacent the outer end of said shaft, a slide support carried from said sleeve, a chain guide mounted upon the slide support, a mortising chain surrounding the sprocket and the chain guide, said chain guide being detachable from the slide support to afford free access to the lower end of the drill spindle.

2,612,916
SPLITTING MACHINE FOR MAKING SHAKES
James G. Bailey, Vernonia, Oreg.
Application January 17, 1951, Serial No. 206,435
6 Claims. (Cl. 144—194)



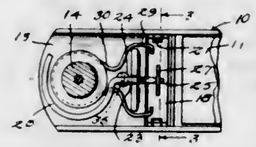
1. A shake splitting machine for removing shakes alternatively from the bottom of a relatively stationary block of wood, comprising a reciprocable carriage, knives mounted therein to be alternately raised into engagement with said block of wood from opposite ends, a reciprocating means for said carriage indirectly connected thereto, a knife shifter, said reciprocating means operatively connected to said knife shifter, and a lost motion device positioned between said knife shifter and said carriage.

2,612,917
WEDGING BENCH CLAMP
E. J. Watt and Adolph Nelson, Loves Park, Ill.
Application October 20, 1949, Serial No. 122,526
1 Claim. (Cl. 144—307)



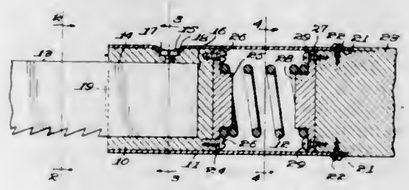
A clamp having in combination, a generally flat base, a fixed jaw upstanding from said base, a generally rectangular slide with a flat bottom resting on and slidable along said base and having a downwardly opening longitudinally extending groove perpendicular to said bottom and inclined at a predetermined angle with respect to opposite side edges of the slide, said groove being offset from the center of said slide to be nearer one edge of the slide than the other and being restricted along its lower part by similar inturned flanges, a rib upstanding perpendicularly from said base and having along its upper edge a laterally projecting flange complementing said slide flanges and interlocking with one or the other of said slide flanges when either end of said rib is inserted into one end of said groove, said rib being spaced from and inclined at said predetermined angle with respect to said fixed jaw to maintain said slide edges parallel to said fixed jaw during movement of the slide along the base with either edge of the slide opposing said fixed jaw and constituting the movable jaw of the clamp whereby to provide different ranges of adjustment of the clamp by turning said slide end for end.

2,612,918
WOODWORKING PLANE WITH CHIP RELEASING MEANS
Joseph P. Zaidan, Philadelphia, Pa.
Application May 23, 1951, Serial No. 227,865
3 Claims. (Cl. 145—15)



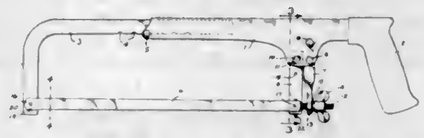
1. A woodworking plane comprising a bottom member, upstanding sides carried by the lengthwise edges of said member, said bottom member having a transverse opening, a cutting blade having the keen edge thereof projecting into said opening, a U-shaped member having the bight thereof disposed in said opening and the legs thereof confronting the inner faces of said sides, said legs having vertically elongated openings thereon terminating below the upper ends thereof, vertically disposed guides fixed to said sides and projecting into the openings of said legs, spring means constantly urging said U-shaped member downwardly, a lever, means carried by said bottom member engaging said lever between the ends thereof and rockably mounting said lever, and means connecting one end of said lever with said U-shaped member whereby rocking of said lever will raise said U-shaped member to shaving release position.

2,612,919
KINK ELIMINATOR FOR HANDSAWS
John L. Phillips, Teague, Tex.
Application September 19, 1949, Serial No. 116,510
1 Claim. (Cl. 145—33)



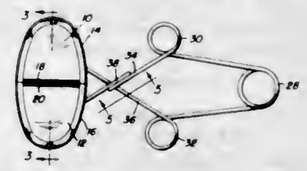
In a saw blade mounting, the combination which comprises a sleeve extended outwardly from the end of a saw handle, means attaching the sleeve to the handle, said sleeve having inwardly extended flanges on the outer end and an opening therethrough spaced from the outer end, a disk like spring guide on the inner ends of the piston and handle having a centrally located boss thereon, a piston having a saw blade receiving socket therein slidably mounted in said sleeve, a screw threaded in the piston positioned to register with the opening in the sleeve and also positioned to engage a saw blade in the socket of the piston, and a spring positioned between the guides on the bosses on the piston and end of the saw handle.

2,612,920
HACKSAW
Fred F. Williams, Everett, Wash.
Application August 28, 1950, Serial No. 181,779
4 Claims. (Cl. 145—34)



1. A hacksaw comprising a frame, an anchor arm firmly secured to and projecting from the frame, an adjusting lever having a slot therein extending obliquely to its longitudinal axis, pivot means extending through said slot and securing the lever adjustably to the frame, adjusting means releasably interengaging the anchor arm and lever adjacent their free ends, and means on the frame and adjusting lever for detachably mounting a cutting blade therebetween.

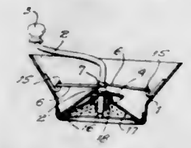
2,612,921
EGG OPENER
Anthony G. Tomola, Fairport Harbor, Ohio
Application December 19, 1949, Serial No. 133,750
1 Claim. (Cl. 146—2)



In an egg opener having a pair of identical elongated complementary arcuate plates each having a semioval shaped peripheral edge and a transverse edge, rims extending vertically and outwardly from said peripheral edges, vertical flanges having horizontal egg piercing edges carried by said transverse edges, and an operating handle carried by said plates; the improvement wherein said handle comprises a single piece of spring steel wire bent intermediate its ends to form a pair of integral legs resiliently interconnected by a coil, said legs being crossed and secured at their ends to said plates to urge said plates horizontally towards each other, said legs being bent intermediate their point of crossing and said coil to form finger receiving loops lying in a common plane with said coil, one of said legs being bent at the point of crossing to form a narrow elongated loop receiving and guiding the other of said legs to insure horizontal spreading only of said plates, said narrow elongated loop lying in a plane normal to said common plane.

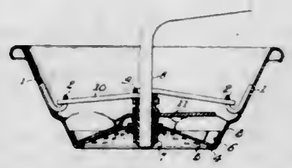
2,612,922
ROTARY MASHER
René Charles Roi, Paris, France, assignor to Societe Civile d'Etudes pour la Fabrication de Produits Industriels Manufactures (S. E. P. I. M.), Paris, France, a corporation of the French Republic
Application August 31, 1949, Serial No. 113,320
In France September 21, 1948
6 Claims. (Cl. 146—175)

4. A masher, comprising in combination, an open top container having a perforated bottom wall; a crank rotatably mounted in said bottom wall of said container for rotation about an axis extending along the length of said container; a mashing member fixed to said crank for rotation therewith and being located just above said bottom wall of said container; a pair of holding members each having a substantially U-shaped portion provided with an open end facing said bottom wall of said container and a closed end facing the top of said container, said holding members being respectively fixed to opposite inner side wall portions of said container, and said U-shaped portions each being entirely spaced



from said container side wall portions; and a one-piece, springy, wire member extending in a direction normal to said axis of rotation across the interior of said container and having opposite straight free ends respectively located beneath said closed ends of said U-shaped portions of said holding members, said springy, wire member being bent only at a central portion thereof to form a loop embracing said crank at a point just above said mashing member to resiliently urge the latter and said crank therewith toward said bottom wall of said container.

2,612,923
HOUSEHOLD IMPLEMENT FOR COMMINUTING FOODSTUFF
René Charles Roi, Paris, France, assignor to Societe Civile d'Etudes pour la Fabrication de Produits Industriels Manufactures (S. E. P. I. M.), Paris, France, a corporation of the French Republic
Application June 19, 1950, Serial No. 168,873
In France July 4, 1949
4 Claims. (Cl. 146—175)

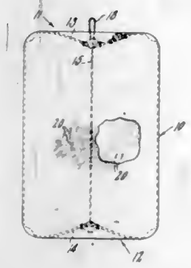


1. A household device for comminuting foodstuff, including a container the main body of which is circular in transverse section, a compression member and a removable self-positioning, perforated bottom; wherein the lower portion of said container is shaped to form an inverted frustum of a pyramid and said bottom is bounded by an upturned flange of complementary shape adapted to nest in said frustum, whereby said bottom may be automatically positioned and held against rotation with respect to the container body.

2,612,924
COLLAPSIBLE CONTAINER
Marion M. Cunningham, Woonsocket, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 6, 1949, Serial No. 131,407
11 Claims. (Cl. 150—1)

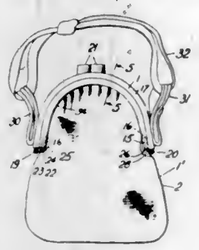
1. A collapsible fluid-tight shipping container formed primarily of coated cord fabric and hav-

ing a cylindrical body and rounded convex heads, said body being formed of plies of coated cord fabric arranged so that the cords of one ply form a substantial angle with the cords of the next ply and the end portions of the cylindrical body



being bent inwardly a short distance entirely around the body, and each rounded convex head being formed of a plurality of plies of coated fabric having their marginal edge portions lapped over said end portions and firmly bonded thereto.

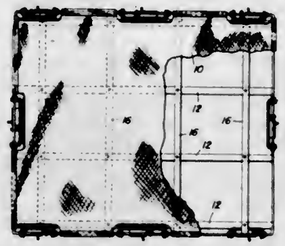
2,612,925
HANDBAG
Samuel Starr, Brooklyn, N. Y.
Application September 22, 1949, Serial No. 117,099
1 Claim. (Cl. 150—29)



A bag for a pair of hinged frames each curved a substantial part of its length and having a slit and enlarged groove for receiving the open top of the bag, the slits and grooves in both frames of said pair of frames being open at both ends and spaced apart as between the open ends of the grooves and slits in one frame and the open ends of the grooves and slits in the other frame, said bag comprising a tubular hem and a single string of beads in said hem spaced apart a distance greater than the distance between said open ends of said grooves and slits in one frame and said open ends of the grooves and slits in the other frame, whereby any two beads in said string of beads may be fed into said open ends at one end of said frames simultaneously and the remaining beads in said string of beads is divided into equal numbers as the beads are fed progressively into said open ends.

2,612,926
COLLAPSIBLE CONTAINER
Venerando Di Mauro, Joseph Di Mauro, and George De George, Brooklyn, N. Y.
Application April 1, 1949, Serial No. 84,966
2 Claims. (Cl. 150—49)

1. A collapsible container comprising sides and a bottom, said bottom being composed of one set of a plurality of substantially parallel cross members having vertical upwardly extending ends, a second set of substantially parallel cross members being arranged transverse to the other set, means connecting at least some of the members of the first set with members of the second set, the cross members in the second set having vertical upwardly extending ends, horizontal pivot bars secured to said ends and vertically spaced from said cross members, means pivotally



connecting said sides with said bars, each of said sides including sections pivoted together, each of said sections including spaced apart rod members, the confronting ends of said sections having reinforcing plates secured thereto, latches carried by said plates to retain said sections releasably in a single plane, said sections being pivoted together by means of an eye and pin connection, and a stop carried by one of the eyes limiting the relative movement of the sections.

2,612,927
BLIND FASTENER
Elmo E. Aylor, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application August 31, 1950, Serial No. 182,578
4 Claims. (Cl. 151—41.75)



1. A blind fastener comprising a sheet metal piece formed with a back, said back having a screw receiving hole therein, sides extending upward from said back formed with opening engaging lugs, a tongue connected to and extending over said back in spaced relation thereto and having wings extending upward and outwardly beyond the width of said back.

2,612,928
TIRE CASING WITH NOISELESS TREAD
Frederick E. Buddenhagen, Hamden, Conn., assignor to The Armstrong Rubber Company, West Haven, Conn., a corporation of Connecticut
Application June 28, 1950, Serial No. 170,827
8 Claims. (Cl. 152—209)

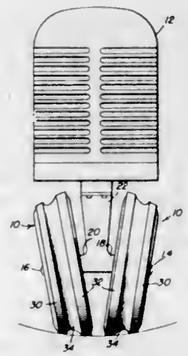
1. In a tire-tread of the character described, the combination including: a plurality of circumferential ribs, each rib having a tread-portion comprising a plurality of sequentially-arranged pattern-divisions, each pattern-division comprising a plurality of substantially uniformly-spaced peaks, the uniform spacing of the peaks of the respective pattern-divisions being different so that said pattern-divisions will have different

frequencies of vibration and a predetermined pitch-sequence; and traction-means in each of said pattern-divisions, said traction-means comprising substantially uniformly-spaced slots extending transversely of said ribs, the uniform spacing of the slots of the respective pattern-divisions being different from the uniform spacing



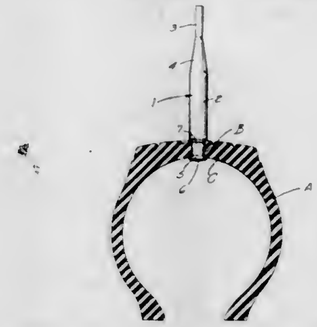
of the peaks of the corresponding pattern-divisions so that the frequencies of vibration of the slots and peaks of the respective pattern-divisions will be dissonant and the pitch-sequence of the traction-means will be substantially opposite to the pitch-sequence of the pattern-divisions, thereby to minimize the noise of operation of said tire-tread.

2,612,929
TRACTOR GUIDE TIRE
Wilfred N. Yeggy, Solon, Iowa
Application December 23, 1947, Serial No. 793,553
2 Claims. (Cl. 152—209)



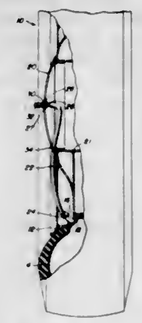
1. In a tractor steering assembly including a pair of vertically complemental opposed inclined guide wheels of the type provided with inflatable casings converging at their lower extremities; an improvement comprising a pair of axially spaced, radially extending annular ribs on the periphery of each of said casings, the inner rib of each of said pairs of annular ribs being of substantially larger diameter than the respective outer rib and being arranged immediately adjacent the adjacent sides of the casings and having side edges smoothly merging with said adjacent sides of the casings.

2,612,930
TIRE REPAIR PLUG
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application March 15, 1950, Serial No. 149,660
1 Claim. (Cl. 152—370)



A rubber-like repair plug for a pneumatic tire casing, comprising a unitary elongated body of circular cross section throughout its length, the body including an elongated plug forming cylindrical portion of uniform cross section throughout its length and having a free end, the said body further including a portion co-axial with the cylindrical portion and which tapers away from the other end thereof, and a second cylindrical portion of substantially less diameter than the first cylindrical portion extending axially from the smaller end of the tapered portion, the said first cylindrical portion being of a length greater than twice the thickness of the casing wall to be repaired, whereby a plurality of plugs may be formed from a single repair plug.

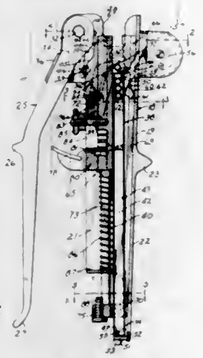
2,612,931
TIRE INFLATING MEANS
Stanley E. Orlicki, Jr., Chicago, Ill.
Application October 12, 1949, Serial No. 120,901
3 Claims. (Cl. 152—415)



1. In combination with a vehicle wheel including a tire having a valve stem, and a snap type hub cap, of a tire inflating means comprising a conduit having first and second end portions, means at the first end portion of said conduit receivably engaging the valve stem, said hub cap having a central opening, an externally threaded tube at the second end of said conduit received in said opening, and a pair of lock nuts threaded on said tube and bearing against opposite sides of the hub cap, said hub cap also having a peripheral slot receiving the conduit and permitting the first end of the conduit to extend

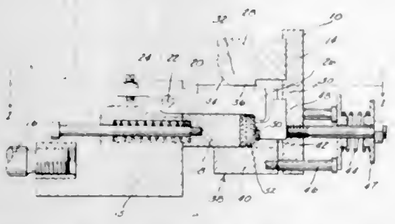
outwardly from the cap to engage the valve and the second end of the conduit to extend behind the cap.

2,612,932
SLEEVE COMPRESSING TOOL
William A. Vinson, Madera, Calif.
Application September 9, 1946, Serial No. 695,593
23 Claims. (Cl. 153—1)



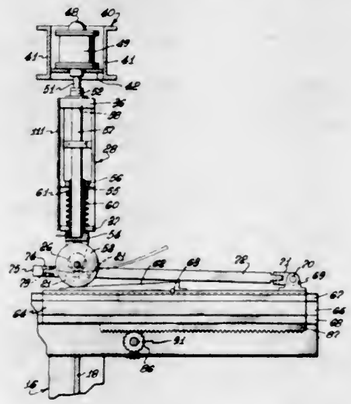
1. In a compression tool for deforming a sleeve into engagement with a member positionable therein, the combination of: a body and means for storing a series of sleeves in side-by-side position therein; a carriage structure mounted on and reciprocable relative to said body and including a pair of relatively movable jaw members providing opposed notches facing each other to define a sleeve-receiving space; means on said carriage structure for moving the end sleeve of said series into said sleeve-receiving space; and means for moving said jaw members toward each other to deform said sleeve while within said sleeve-receiving space to engage said sleeve with a member placed inside said sleeve.

2,612,933
CLIP CLINCHING MACHINE
George R. Reed, Grosse Pointe Park, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 18, 1947, Serial No. 722,899
2 Claims. (Cl. 153—1)



1. Mechanism for clinching the ends of members together comprising a stationary frame, a power actuated member relatively movable thereto, a forming tool pivotally supported thereon, a pressure block resiliently supported on the power actuated member for limited relative movement thereto, said tool extending substantially in the resilient supported direction of the pressure block, a pressure pad resiliently supported on the frame for limited movement relative thereto cooperable in resiliently opposed spaced relation to the pressure block to form a vise jaw therebetween adapted to hold the work upon which the clinching is to be done, said pressure block extending lineally away from the power actuating members, and biased therefrom, a greater distance than the forming tool extends therefrom, in the same direction, and a lesser distance when of minimum extended length relative thereto, a cam fixedly supported on the frame engageable by the forming tool to control the pivotal movement thereof, and a stationary forming tool on the frame disposed centrally of the pressure pad in spaced relation to the pressure block adapted to engage the work held between the resiliently supported block and pad, said pivotal tool having its forming portion pivoted to a position extending beyond the vise jaw portion of the pressure block when the pivotal tool is engaged by the cam.

2,612,934
FORMING ROLL MACHINE
Paul P. M. Dubosclard, Topanga, Calif.
Application June 13, 1949, Serial No. 98,831
15 Claims. (Cl. 153—32)

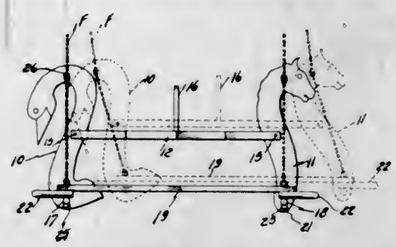


1. In a forming roll machine: a bed; a pair of stock-forming idle rolls rotatably mounted on said bed; a cross-head supported from said bed above said pair of rolls; a rigid beam supported from said cross-head; a stock-forming pressure idle roll carried by said beam above and between said pair of rolls for cooperation therewith; means for applying pressure to the roll carried by said beam; a carriage slidable at each side of the bed for reciprocal movement in directions normal to the axis of said rolls, said carriages having cam means in cooperative engagement with said beam for positively limiting effects of pressure applied to said beam; means for removably connecting a sheet of stock to said carriages; and means for differentially driving said carriages for moving opposite ends of the sheet of stock at different rates of speed while passing between said pressure roll and said pair of rolls.

2,612,935
SWING
Willard M. Bielby, Bay City, Mich.
Application April 7, 1947, Serial No. 739,881
4 Claims. (Cl. 155—63)

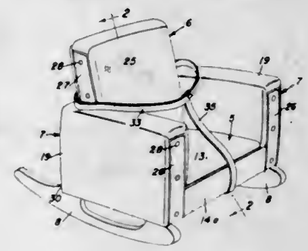
1. In a device of the class described, the combination of spaced-apart, vertically disposed panel members, a horizontally disposed seat member spanning said panel members and pivotally connected thereto at a point intermediate

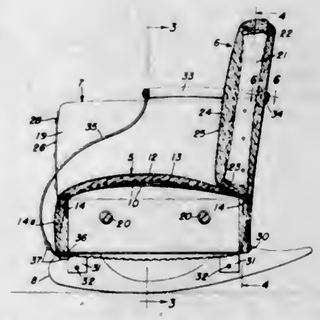
their height, transversely disposed bars in the lower ends of the panels, and longitudinally disposed foot supports spanning said bars on opposite sides of said panels and connected to said bars, yieldable, projecting bumper bars spanning



the foot supports on the opposite sides of the device transversely disposed pump bars mounted in the upper end sections of the panels, and flexible members for suspension from a support said flexible members being secured to said foot supports.

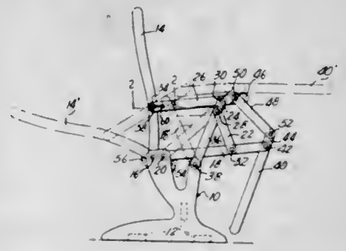
2,612,936
UPHOLSTERED ROCKING ARMCHAIR
Howard B. Lansaw, Huntington, W. Va.
Application August 21, 1950, Serial No. 180,581
2 Claims. (Cl. 155—69)





1. In an upholstered chair, a seat member including a box-type frame, and a bottom composed of arched springs attached at their ends to the upper portions of the front and rear members of said frame, and an upholstery covering over said springs whose fabric is tacked at its edges to the upper portion of said frame, a pair of side members, each side member including a frame having spaced vertical inner and outer bottom boards, and an upholstery covering for the top and the inner and outer sides of the latter frame whose fabric has its edges tacked to the front and rear members of said latter frame, to the inner bottom board thereof and to the lower edge of the outer bottom board of the same, bolts passing through the side members of the frame of the seat member and the inner bottom boards of the side members to rigidly secure the lower portions of said side members to the sides of the seat member, and a back member including a box-type frame, and an upholstery covering for the top, front and rear of the last-named frame whose fabric is tacked to the side and bottom members of the latter, said back member being seated on the rear of the seat member and disposed between the rear portions of the side members, the bottom member of the frame of said back member being fastened to the rear member of the frame of said seat member, and the side members of the frame of said back member being fastened to the rear members of the frames of said side members, rockers secured to the lower edges of the outer bottom boards of said side members, said rockers having top shoulders abutting the rear of said side members.

2,612,937
RECLINING ARTICLE OF FURNITURE
Anton Lorenz, Buffalo, N. Y.
Application November 7, 1946, Serial No. 708,311
11 Claims. (Cl. 155—110)

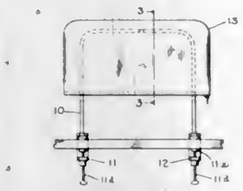


1. An article of repose for supporting the body of a person, comprising in combination: a support, a constrained linkage having stationary link-means and a plurality of movable links, said stationary link-means being included in said support, said movable links including a seat member, a back-rest member, guiding means and a chain of connecting links including a top connecting link at one end of the chain and a front connecting link at the other end of the chain, at least one of said connecting links being arranged above the plane of the seat-member, said guiding means being connected to said support and being engaged with at least one connecting link of said chain of connecting links, said top connecting link being pivoted to an intermediate point of the back-rest member, said front connecting link being pivoted to the front portion of said seat-member, means pivotally connecting at least one of said back-rest and seat-members with said support, a leg-rest swingably mounted on the front portion of said seat-member, and a controlling link, one end portion of said controlling link being pivoted to one of said connecting links, and the other end portion of said controlling link being pivoted to the structure of said leg-rest.

2,612,938
PORTABLE BACK REST
Henry E. Dawkins and Sheldon T. Dodin, New York, N. Y.
Application July 24, 1950, Serial No. 175,536
3 Claims. (Cl. 155—133)

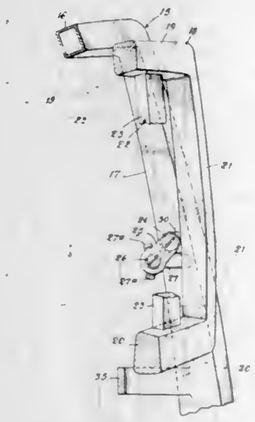
1. A portable back rest for benches, seats and the like, comprising a frame of inverted U shape, said frame consisting of a pair of members which

are of inverted L shape and which are telescopically and detachably connected to each other, a C-clamp swivelly connected to the lower end of each of the legs of said inverted U-shaped frame for mounting said frame on the back edge of a bench or the like, and a cover which is removably mounted on said frame, said cover being provided with padding which serves as a cushion



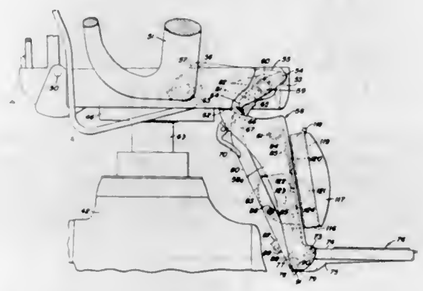
between said frame and the person whose back rests against said frame, said cover being sufficiently large, when the two inverted L-shaped members which comprise the frame are detached from each other and placed adjacent each other, to accommodate said inverted L-shaped members and the clamps which are connected to them, so that said back rest may conveniently be carried from place to place in said cover.

2,612,939
TILTING CHAIR BACK
John S. Burdick, North Muskegon, Mich., assignor to The Shaw-Walker Company, Muskegon, Mich., a corporation of Michigan
Application May 15, 1950, Serial No. 162,025
10 Claims. (Cl. 155—156)



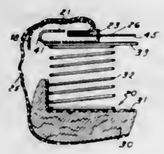
10. In a chair having a seat and a back rest support including stationary upright side rails, a pair of rearwardly extending trunnions mounted on said side rails having forwardly projecting arms pivotally adjustable on horizontal axes disposed approximately at the level of the small of the back of an average adult occupant to vary the forward angle of said arms relative to said trunnions, a back unit pivotally mounted for relatively free tilting movement on the ends of said arms to form the back rest of said chair between said upright side rails, and said back unit being bodily adjustable vertically between said side rails by the angular adjustment of said arms.

2,612,940
MEDICAL PRACTICE CHAIR WITH ADJUSTABLE LEG AND FOOTREST SUPPORTS
Norman E. Lauterbach, Newark, N. Y., assignor to Ritter Company, Inc., Rochester, N. Y., a corporation of Delaware
Original application July 2, 1946, Serial No. 680,983. Divided and this application October 1, 1949, Serial No. 119,095
6 Claims. (Cl. 155—171)



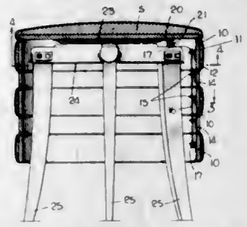
3. A chair comprising a seat, a frame mounted for pivotal movement relative to said seat, a foot rest adjustably mounted on said frame and movable to an inactive position folded thereagainst, said foot rest having a lower supporting section and an upper foot receiving section and connections between said sections for adjustably supporting said upper section at different elevations, a leg rest, and adjustable connections between said leg rest and frame for supporting said leg rest on said frame or on said upper foot rest section in different adjusted positions of said upper foot rest section.

2,612,941
UPHOLSTERING
Bartley J. Naughton, Jr., Birmingham, Mich., assignor of one-half to Stephen F. Olesak, Detroit, Mich.
Application February 28, 1951, Serial No. 213,240
16 Claims. (Cl. 155—180)



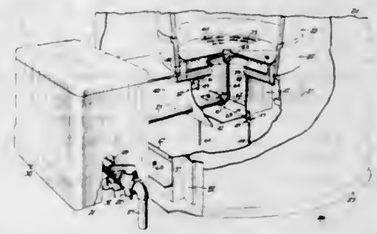
1. An upholstery fabric attaching device for securing fabric under tension effected by the resilience of a cushion or the fabric itself comprising a cushion, a first bar spaced from the bottom of said cushion paralleling the edge of said cushion, a second bar spaced from the bottom of said cushion paralleling said first bar in spaced relation thereto, a fabric covering said cushion looping around said first bar, a tab less flexible than the fabric and attached to the fabric and disposed in the space between said bars and said cushion and bridging the space between said bars thereby anchoring said fabric over said cushion.

2,612,942
FURNITURE MADE OF LAMINATIONS OR SECTIONS
Luther G. Simjian, Riverside, Conn., assignor to The Reflectone Corporation, Stamford, Conn., a corporation of Connecticut
Application October 22, 1949, Serial No. 122,997
5 Claims. (Cl. 155—184)



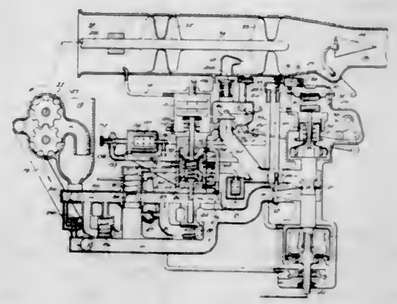
5. In an article of furniture, a series of laminations applied in vertical superimposed relation, means for holding said laminations assembled in said vertical superimposed relation with their exterior peripheral surfaces forming a composite exterior surface for said article of furniture, and a seat applied to the uppermost of said laminations.

2,612,943
GAS BURNER
Richard C. Wright, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Cleveland, Ohio
Application August 11, 1948, Serial No. 43,705
6 Claims. (Cl. 158—7)



1. Fuel gas burning means comprising in combination an air box, a primary combustion chamber, a secondary combustion chamber, a first passageway means for conducting atmospheric air into said air box, a second passageway means connecting the top of said air box with the bottom of said primary combustion chamber for the purpose of conducting combustion air from said air box centrally into said primary combustion chamber, means for conducting non-aerated fuel gas through said air box and centrally and vertically into said primary combustion chamber, means for discharging said non-aerated fuel gas centrally and substantially horizontally outwardly in multiple streams under regulated pressure into said primary combustion chamber and thereby inducing a flow of combustion air from said air box into said primary combustion chamber, means for igniting said air and gas mixture in said primary combustion chamber, multiple passageways through the top of said primary combustion chamber for conducting combusting gases through the top of said primary combustion chamber and into said secondary combustion chamber, passageway means from said secondary combustion chamber to the atmosphere, means for regulating the flow of air and combustion gases through all said passageways, and means for regulating the flow of non-aerated fuel gas in said gas conducting means.

2,612,944
SEMIISOCHRONOUS GOVERNOR FOR GAS TURBINES AUTOMATICALLY MODIFIED BY FUEL PRESSURE
Andrew William Orr, Jr., Detroit, Mich., assignor to George M. Holley and Earl Holley
Application June 7, 1948, Serial No. 31,583
17 Claims. (Cl. 158—36.4)



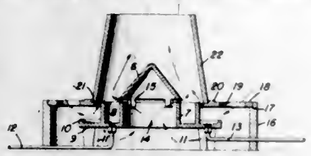
14. A centrifugal governor for a gas turbine and the like, a manually controlled spring opposing the centrifugal force derived from said governor, a control valve jointly controlled by said opposing forces, a source of motive fluid for said gas turbine, a main fluid passage therefor, said control valve being located in said main fluid passage to control the flow therethrough, a moving wall, a chamber enclosing said moving wall and divided thereby into two parts, a restriction in said passage, a pressure passage connecting the pressure side of said moving wall with the pressure in the main fluid passage, a low pressure passage connecting the low pressure side of said moving wall with the low pressure created by said restriction, the moving wall thus forming a fluid flow responsive means, a connection from the moving wall to said valve so that the motion of moving wall opposes the motion due to centrifugal force as the speed of the gas turbine and the velocity of the flow of said motive fluid are both increased and a spring interposed between the moving wall of the flow responsive means and the fuel valve.

17. A prime mover, a passage, a source of motive fluid for said prime mover under pressure connected to said passage to cause motive fluid to flow therethrough, a valve in said passage, a centrifugal governor for said prime mover connected to said valve, a manually controlled spring opposing the centrifugal force of said governor, flow responsive means responsive to the flow in said passage, a second spring interposed between said flow responsive means and said valve so that the flow responsive means imposes through said second spring, a second opposition force to said centrifugal force increasing as the square of the velocity of flow through said passage.

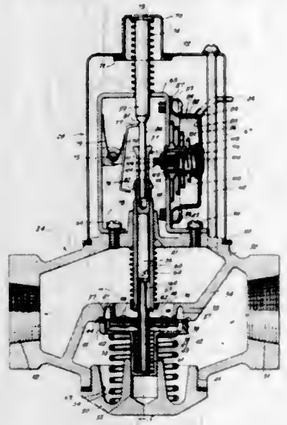
2,612,945
OIL BURNER FOR TOBACCO CURING BARNS
Charles C. Granger, Henderson, N. C.
Application May 27, 1949, Serial No. 95,747
2 Claims. (Cl. 158—91)

1. In a portable tobacco barn oil burner of the class described, a unitary burner casting embodying an annular channel circumscribing and forming an endless oil ring, the inner wall of said channel defining an unobstructed circular air circulating space, said channel having means whereby a fuel oil delivery pipe may be attached to the bottom of said channel, a circular horizon-

tal imperforate flange integral with and on a plane with said bottom and radiating from the outer wall of the channel and having an upstanding outer marginal lip combining with said flange in defining a relatively shallow oil overflow and draining trough, supporting legs integral with, underlying and depending from said flange, an air deflector cone, the base of the latter being of a diameter slightly greater than the aforementioned air space and having basal lugs telescoping and fitting frictionally in contact with the inner wall of said channel, and separate knockdown housing means for said burner embodying a truncated conical flue adapter lined up with the burner, said flue adapter being of a basal diameter larger than said channel and less than the diameter of said flange, support means spaced radially from and surrounding said oil ring and trough, said means being of a height which terminates on a plane with the upper open end of said channel, and a flat plate between said support means and flue adapter, said plate being disposed in a plane with the upper open top of said channel.

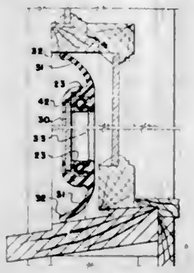


2,612,946
FLAME SENSITIVE FUEL CUTOFF DEVICE
Clifton A. Cobb, University City, Mo., assignor to Missouri Automatic Control Corporation, St. Louis, Mo., a corporation of Missouri
Application October 20, 1947, Serial No. 780,920
8 Claims. (Cl. 158—137)



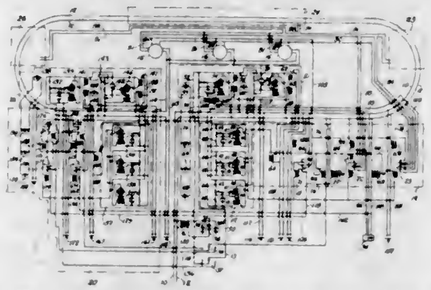
1. In a manual reset valve in combination, a valve body having main and pilot burner fuel supply ports therein, first and second valves for controlling said main and pilot ports respectively, a main spring for holding said second valve closed, a secondary spring biased between said second and first valves for holding said first valve closed, a spring returned manual actuator for opening said second valve, a counter spring capable of opening said first valve against said secondary spring when said second valve is opened, means operated by said manual actuator as it is moved in a valve opening direction to restrain said counter spring, said restraining means becoming inoperative upon return of said manual actuator, and means operative under certain conditions to hold said second valve in an open position.

2,612,947
RESILIENTLY EXPANSIVE WINDOW CLOSURE
Albert S. Jenks, Danbury, Conn.
Application April 27, 1950, Serial No. 158,431
7 Claims. (Cl. 160—40)



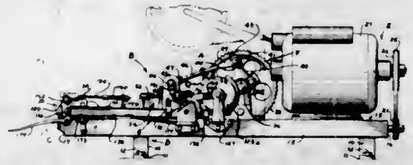
1. A window closure having a resilient outer frame adapted to substantially securely engage the opening of a window frame comprising, a frame formed of substantially rigid material having a U-shaped longitudinal groove formed therein, a frame of resilient material having longitudinal locking means adapted to securely engage said groove of the rigid frame and hold a screen therein, said resilient outer frame having means formed therein to receive a transparent substantially rigid member disposed in a plane substantially parallel with said screen, said resilient frame having ribbon flaps formed thereon and terminating in a bead on the outer peripheral edge and adapted to engage a window frame opening, locking means provided between said substantially rigid frame and said resilient outer frame for holding said frames in locked relation, and gripping means adapted to be secured to said resilient frame to facilitate insertion and removal of said window closure.

2,612,948
RACE TRACK TIMING DEVICE
Ira M. Malott, Louisville, Ky., and Herbert R. Crawford, Cincinnati, Ohio
Application July 14, 1948, Serial No. 38,706
5 Claims. (Cl. 161—18)



1. The combination of a device for timing a race on a continuous track in which objects circle the track at least once and mechanism for energizing the timing device at a start of a race after starting apparatus crosses a starting line, the mechanism for energizing the timing device comprising, a first and a second photo-electric device, means for directing a separate light beam into each device, a first relay means operable when the light beam to the first photo-electric device is broken, a second relay means for operation when the second light beam strikes said second photo-electric device, said second relay means being operable after operation of said first relay means to energize the timing device, the light beam to said second photo-electric device crossing the track adjacent the starting line, the light beam to the first photo-electric device being at least as far along the track in the direction of the race as the beam to the second photo-electric device, the distance along the track between the light beams being less than the length of the starting apparatus, whereby the first relay means is operated as the starting apparatus starts to cross the light beam to the first photo-electric device, and the second relay is operated thereafter as the starting apparatus finishes crossing the light beam to the second photo-electric device to energize the timing device, the timing device comprising, a time indicating means, means for starting the time indicating means when a first object passes the starting line after operation of the second relay means, a time delay relay startable when said time indicating means is started, said time delay relay operating a sufficient time after the first object passes the starting line to permit all objects in the race to clear a finish line for an initial time before operation of said time delay relay, and means at the finish line for stopping the time indicating means, the means for stopping the time indicating means being operable after operation of the time delay relay as objects pass the finish line a final time.

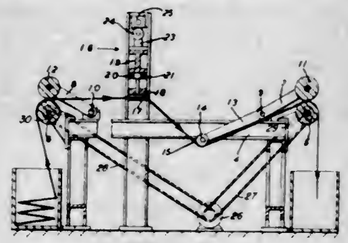
2,612,949
MACHINE FOR REMOVING METALLIC ELEMENTS FROM FLEXIBLE STRIPS
William R. McDaniel, Englewood, Tenn.
Application September 25, 1950, Serial No. 186,579
14 Claims. (Cl. 164—42)



1. In a machine for processing strip material, said strip material including a flexible strip provided with substantially rigid elements separate from and attached to the strip and extending from a face thereof in a continuous, longitudinally-extending row, said machine including means to move said strip material along its longitudinal axis; a movable knife; means to intermittently move said knife to cut through selected portions of said elements to remove portions of the elements, while leaving strip-attached portions of the cut-through elements attached to said strip; and means to remove the strip-attached portions of the cut-through elements from said strip.

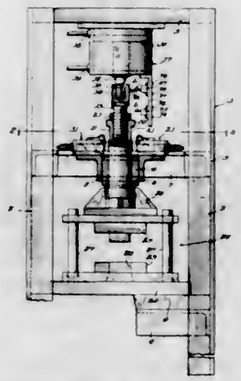
2,612,950
DEVICE FOR PERFORATING ELASTIC SHEET MATERIAL
Henry Ewing, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application February 4, 1947, Serial No. 726,309
In Great Britain February 12, 1946
4 Claims. (Cl. 164—89)

1. A device for perforating elastic sheet material, which comprises a pair of nip rollers adapted to draw and forward sheet material from a supply, a second pair of nip rollers spaced from and parallel to the first and adapted to draw sheet material from the first pair, means for continuously driving at least one of the first pair of nip rollers, means for continuously driving at least one of the second pair of nip rollers at a predetermined peripheral speed at least 2% higher than that of the first pair and in the same direction as the corresponding roller of the first pair, a perforator positioned between the two pairs of nip rollers and comprising a perforated guide plate over which the sheet material passes



and reciprocating punches which in one extreme position are well clear of the guide plate and in the other extend into the perforations in the guide plate, and between one of the pair of nip rollers and the perforator a single jockey roller parallel to the nip rollers and carried in an independently movable mounting such that in the absence of sheet material passing through the device the jockey roller will take up a position substantially below the plane in which lie the nip of the nip rollers next to the jockey roller and that edge of the upper surface of the guide plate which is the nearer to the jockey roller.

2,612,951
PNEUMATIC PRESS
Herbert Palmleaf, Chicago, Ill., assignor to A. J. Gerrard & Company, Chicago, Ill., a corporation of Illinois
Application August 6, 1947, Serial No. 766,721
19 Claims. (Cl. 164—95)



1. In a pneumatic punch press, the combination of an adjustable reciprocable work member of the punch press, a pneumatic actuating unit including an air cylinder and a cooperable piston, means operatively connecting said piston and member for transmitting motion from the former to the latter, valve means for controlling the flow of air to and from said cylinder, means responsive to movement of said member for actu-

ating said valve means to reciprocate said member through a power stroke of a predetermined length and a return stroke, said adjustable reciprocable work member having a cam surface thereon permitting adjustment thereof with respect to the length of the stroke of the reciprocable work member, a retard member movable with respect to said cam surface and having a yieldable element thereon, and means for urging said retard member toward and the yieldable element into the path of the cam surface on said reciprocable member, said yieldable element being temporarily rigid relative to said retard member and momentarily retarding movement of the work member during an intermediate fraction of a power stroke for increasing the effective impact force of the work member, and yieldable relative to said retard member during a return stroke to permit unrestricted return movement of said reciprocable work member.

2,612,952

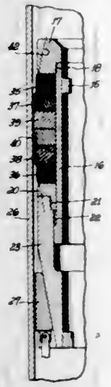
WITHDRAWN

2,612,953

PACKER

Charles K. Morgan and Lorrain D. Meddick, Los Angeles, and John S. McKenna, Alhambra, Calif., assignors to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware

Application May 4, 1946, Serial No. 667,316
4 Claims. (Cl. 166—12)



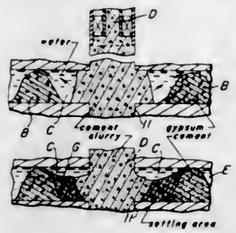
1. In a well packer adapted to be lowered into a well casing in unset condition with substantial clearance between the packer and the inner surface of the casing and having packer elements to be expanded radially for making sealing contact with the casing and maintaining such sealing contact in a deep well under severe temperature and pressure conditions tending to cause extrusion and flow of the packing material: an inner packer retainer sleeve; a series of separate, resilient, substantially rectangular cross-sectioned annular packer elements in end to end coaxial relationship surrounding said sleeve, each individual packer element being of substantially uniform Shore hardness and rigidity throughout but with different packer elements being of different Shore hardness and rigidity; the endmost packer elements of said series having the greatest Shore hardness and rigidity and the intermediate packer elements having lesser Shore hardness and rigidity, said endmost packer elements being less readily deformable than said intermediate packer elements under normal compressive forces applied thereto to expand the packer elements; and means for applying axial compressive forces to the endmost packer elements and through said series of packer elements to compress said packer elements axially on said sleeve and to thereby cause differential radial expansion of said packer elements toward a surrounding well casing with the intermediate packer elements partaking of the greatest initial radial expansion.

2,612,954

METHOD OF SEALING OPENINGS IN WELL CASINGS AND EARTH FORMATIONS

Andrew C. Hamilton, Jr., Dallas, Tex.

Application September 10, 1948, Serial No. 48,768
10 Claims. (Cl. 166—22)



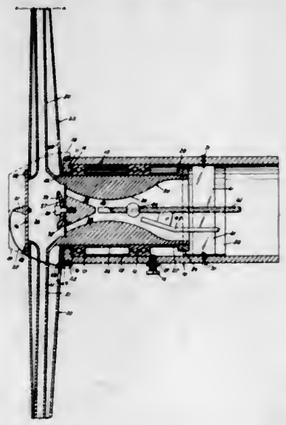
1. The method of sealing an earth formation which includes depositing a body of calcined gypsum cement slurry into a well tubing, then depositing a body of separating liquid into the well tubing, then depositing a body of Portland cement, applying pressure to said bodies so as to force the gypsum slurry and liquid into the earth formation, allowing the separating liquid to move from between the gypsum and Portland cement slurries, and forcing the Portland cement slurry into contact with the gypsum cement slurry in the formation.

2,612,955

AIR SCREW, INCLUDING A RESONANT PULSE JET SYSTEM

William L. Tenney, Crystal Bay, Minn., and Charles B. Marks, Las Vegas, Nev.; said Marks assignor to said Tenney

Application March 5, 1947, Serial No. 732,620
8 Claims. (Cl. 170—135.4)



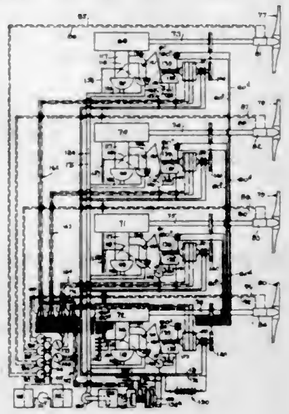
1. A self-powered rotary air screw capable of being powered while the screw is static or rotating comprising a hub and hollow shaft assembly mounted for rotation, airfoil propeller blades mounted on the shaft for rotation therewith, and a resonant pulse jet system including combustion chamber means in said hub and shaft assembly and having jet exhaust tubes internally of the propeller blades opening in substantially unrestricted relation directly into said combustion chamber and extending outwardly within said blades forming with said combustion chamber integral parts of a system resonant in gases, pressure responsive valve means located adjacent and in direct pressure responsive relation with said combustion chamber for periodic operation under the action of and in timed relation with the resonant pulsating action of the gases in said system, and means for discharging the periodic pulse jets from said exhaust tubes and the blade contour adjacent the tips of said propeller blades to develop thrust for effecting rotation of said air screw.

2,612,956

SYNCHRONIZING MEANS FOR MULTI-MOTORED AIRPLANES

Thomas A. Banning, Jr., Chicago, Ill.

Application September 22, 1942, Serial No. 459,336
25 Claims. (Cl. 170—135.29)



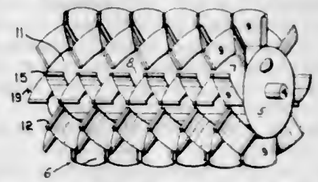
1. In an airplane having a plurality of power motors each of which is provided with a fuel control throttle, and a variable pitch propeller, means to control and synchronize said power motors for speed, comprising means under control of the pilot of the plane to generate a controllable frequency polyphase pilot circuit current, a polyphase reactive electro-magnetic control device for each power motor including two reactive elements, one being a polyphase wound element and the other being a fixed pole field element, means to journal both of said reactive elements for 360 degree rotation about a common axis, means to connect said polyphase wound element with said polyphase pilot circuit current, and means to drivingly connect one reactive element of each control device with the power motor shaft of a power motor, and slip drive means to connect the other reactive element of such control device with the fuel control throttle for such power motor to shift said throttle according to differential of frequencies of the polyphase pilot circuit current and the speed of the power motor shaft, substantially as described.

2,612,957

PROPULSION WHEEL

Rainer H. Knipping, San Antonio, Tex.

Application February 24, 1948, Serial No. 10,231
2 Claims. (Cl. 170—142)



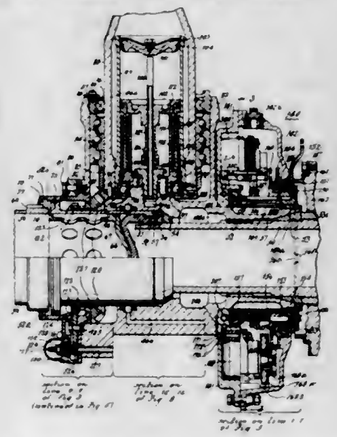
1. A propulsion wheel including, a drum having closed ends, an axle extending from said ends, a plurality of rows of buckets on said drum and extending axially thereof, each of said rows of buckets including a plurality of plates upstanding from the periphery of the drum with the alternate plates in each row slanted at oppositely extending, substantially equal angles from a plane transverse to the drum axis so that two adjacent plates comprise a bucket and in cross-section form two sides of a triangle, the converging ends of said plates being separated to provide a small opening thereinbetween, the base of the triangle being completed by the distance across the opening between the diverging edges, the rotation of the drum entrapping water in the buckets of each row as that row enters the water, and the small openings providing escape ports for the water trapped within the buckets as further rotation moves that portion of the drum out of the water.

2,612,958

HYDRAULICALLY OPERATED ENGINE-PROPELLER CONTROL

David A. Richardson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 30, 1945, Serial No. 613,563
15 Claims. (Cl. 170—160.21)



1. In a system of control for an engine-propeller power-plant having hydraulically operated propeller-pitch adjusting apparatus, a pressure system for the apparatus and a pressure pump driven by the plant, the combination comprising, a distributing valve in the pressure system and connected with the pump for controlling pressure flow to the apparatus, a differential mechanism disposed between the pressure system and the pitch adjusting apparatus for controlling the distributing valve and having a first mechanism

including a rack bar actuable by the pressure system and movable in response to a demand for propeller pitch adjustment and a second mechanism including a rack bar movable in response to operation of said apparatus to effect the demanded propeller pitch adjustment and having an element actuatable by both rack bars for controlling the distributing valve in response to the differential of the movements of said mechanism, a speed responsive governor valve open to the pressure system and operable upon the first said mechanism for controlling the demanding movement of the differential mechanism to effect a corrective propeller pitch adjustment when there is a deviation from a selected governed speed, and manually operable means actuating the governor valve for selecting the governed speed to be maintained.

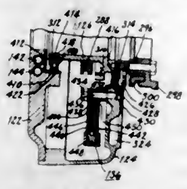
2,612,959

PROPELLER REGULATOR ASSEMBLY

Werner J. Blanchard, John F. Haines, and Thomas B. Martin, Dayton, Ohio, and Charles S. J. MacNeil, deceased, late of Dayton, Ohio, by Elise M. MacNeil, administratrix, Dayton, Ohio; said Werner J. Blanchard, John F. Haines, Thomas B. Martin, and Charles S. J. MacNeil, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Original application July 9, 1942, Serial No. 450,246, now Patent No. 2,405,285, dated August 6, 1946. Divided and this application September 11, 1945, Serial No. 615,522

7 Claims. (Cl. 170—160.21)



1. In a hydraulically controlled constant speed propeller, having a hub, the combination comprising, a regulator mechanism mounted for rotation with the hub and providing a fluid containing reservoir surrounding the hub, nonrotating means extending into the reservoir and providing oilseals engaged by the rotating part of the reservoir, a channel on said reservoir disposed adjacent an exterior surface on one of the oilseals for collecting any fluid that seeps past said one oilseal, and a breather valve within the reservoir and mounted thereon providing a valved passage for bypassing one of the oilseals, said passage connecting the bottom of said channel with the interior of said reservoir said breather valve having a weight element and being normally closed under the urge of spring pressure but adapted to open in response to a predetermined speed of rotation for venting the interior of the reservoir to outside atmosphere and to permit return to the reservoir of any fluid that has seeped past the oilseals.

2,612,960

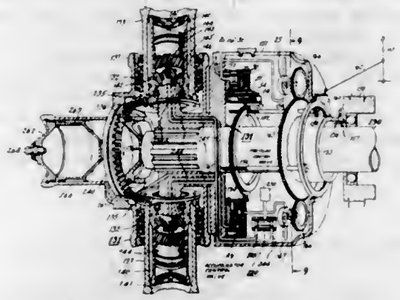
HYDRAULICALLY OPERATED PROPELLER PITCH CONTROL

Clifford L. Muzzey, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 17, 1945, Serial No. 635,459

7 Claims. (Cl. 170—160.21)

1. Apparatus for controlling propeller rotation subject to variable speed by change of blade angle, comprising blades rotatably mounted for change in blade angle, a servo-motor operatively connected to the blades for turning the same, a governor unit rotatable with the propeller and sensitive to speed of propeller rotation, a stabilizer unit rotatable with the propeller and sensitive to speed of propeller rotation, a source of fluid pressure common to said governor unit and said stabilizer unit, said governor unit including a member movable under the urge of fluid pressure from said source, a valve for controlling the application of fluid pressure from said source to



said member, and means for moving said valve for applying said fluid pressure to said member, said stabilizer unit including a member movable under the urge of fluid pressure from said source, a valve for controlling the application of fluid pressure from said source to said member, and means for moving said stabilizer valve for applying said fluid pressure to said stabilizer member, an independent source of power for said servo-motor, and means under joint control of both members for controlling the application of the independent source of power to the servo-motor.

2,612,961

PROPELLER HAVING ADJUSTABLE BLADES

Cornelis Kapsenberg, Middelburg, Netherlands, assignor to N. V. Koninklijke Maatschappij "De Schelde," Vlissingen, Netherlands, a company of the Netherlands

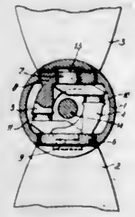
Application February 27, 1947, Serial No. 731,257

In the Netherlands March 9, 1943

Section 1, Public Law 690, August 8, 1946

Patent expires March 9, 1963

2 Claims. (Cl. 170—160.24)



1. A propeller comprising a hollow hub and a pair of blades diametrically protruding from said hub, the root ends of the blades extending into the hub and being crank-shaped within the space inside the hub, the portion of such root end between the blade and the crank-shaped portion being cylindrical in shape to constitute a trunnion, said hub having a cylindrical boring at the side of the blade serving as a bearing for said trunnion, said trunnion having a coaxial boring, the free end of the crank-shaped portion being provided with a cylindrical projection extending to

the opposite side of the hub and coaxially with the said trunnion, said projection having a smaller diameter than the said trunnion, the said projection bearing in the coaxial boring of the trunnion that forms part of the other blade of the pair of blades with which the projection is coherent.

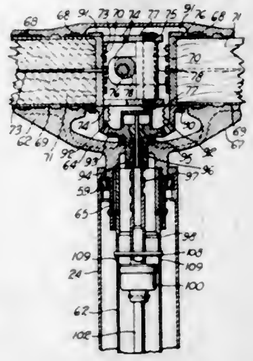
2,612,962

HELICOPTER ROTOR CONSTRUCTION

Paul M. Lewis, Chicago, Ill., assignor to Peninsular Metal Products Corporation, Detroit, Mich., a corporation of Michigan

Application September 9, 1947, Serial No. 772,953

7 Claims. (Cl. 170—160.42)



1. In a helicopter: a body having a longitudinal axis of flight; a rotor connected with said body and provided with a pair of radial blades normally disposed in generally horizontal planes and revolvable about a vertical axis; and adjustable interengaging means connecting said blades so that centrifugal force acting on either blade is counteracted by the centrifugal force applied to the other blade, said interengaging means including an eccentric element adjustable on each blade, said elements interlocking with their peripheries in contact.

2,612,963

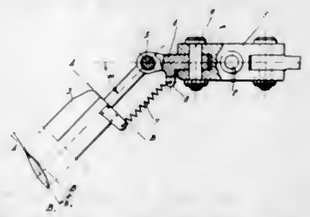
SPRING-BIASED AUTOGYRO ROTOR BLADE

René Dorand, Versailles, France

Application May 1, 1948, Serial No. 24,654

In France May 27, 1947

7 Claims. (Cl. 170—160.52)



7. In an autogyro rotor to be attached to an object for retarding the descent of the same, a wing arrangement, comprising in combination, hub means mounted for rotation about a central pivot axis; elongated link means having a pair of opposite end portions and being mounted at one of its end portions on said hub means for turning movement about a flapping axis normal to and spaced from said central pivot axis; blade means mounted on the other of said end portions of said link means for turning movement about a drag axis normal to and spaced from said flapping axis, said drag axis being parallel to and spaced from said central pivot axis; and resilient means interconnecting said blade means and link means for urging said blade means about said drag axis to a position in advance of its normal rotating position, said resilient means having a force which is substantially less than the centrifugal force acting on said blade means during normal rotation thereof so that said resilient means only acts on said blade means when the latter is staticnary or rotating slowly, whereby, when said blade means moves about said drag axis between said advance position and said normal operating position and about said flapping axis during movement between said two positions, the pitch of said blade automatically changes.

2,612,964

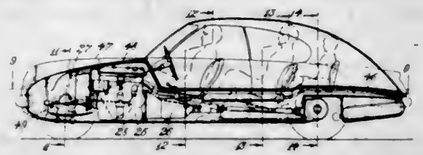
CHASSIS FRAME FOR ROAD VEHICLES

Dudley Edwin Hobbs, Bristol, England, assignor to The Bristol Aeroplane Company Limited, Bristol, England, a British company

Application February 6, 1950, Serial No. 142,645

In Great Britain February 17, 1949

1 Claim. (Cl. 180—54)



A motor vehicle comprising an open-ended tunnel-like chassis member which extends lengthwise of the vehicle and is of channel section the open face of which faces downwardly, an engine to drive the vehicle arranged within the chassis member, means for supporting the road wheels from the chassis, a main transmission from the engine to a differential gear box all within the chassis member, transmission means transversely of the chassis member from said differential gear to at least one pair of road wheels, a substantially flat floor unit having an upturned marginal edge, said floor unit being attached to the chassis member substantially throughout the length of the chassis member, a body shell secured to the upturned peripheral edge of the floor unit, a central longitudinal tunnel on said floor unit having an open bottom and within which said chassis member is mounted, and a cover plate on said floor unit for closing the tunnel and the chassis member.

2,612,965

ENGINE GOVERNOR CONTROL MEANS

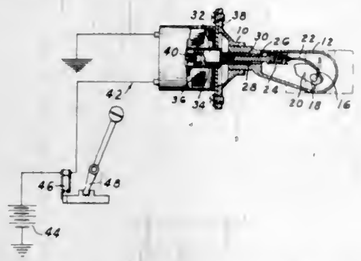
Chester D. Christie, South Euclid, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application November 13, 1947, Serial No. 785,658

2 Claims. (Cl. 180—82.1)

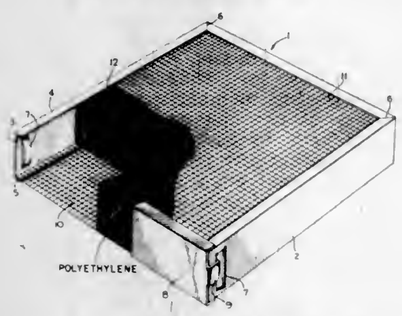
2. In combination with a vehicle, an engine therefor, a speed change transmission driven therefrom, a velocity type engine speed control governor comprising a housing interposed between the carburetor and the intake manifold of the engine having an orifice therethrough communicating on opposite ends thereof with the carburetor and manifold, a throttle plate pivotally mounted on the housing in the orifice for controlling fluid flow therethrough, adjustable

spring tension means for predeterminedly tensioning the throttle plate including a coil spring interconnected to the throttle plate on one axial extremity thereof, and an adjustable screw connected to the other opposite axial extremity of the spring, a solenoid comprising an electromagnetic coil and an armature cooperable therewith, said armature being threadingly coupled to the



adjustable screw whereby the screw is axially adjustable relative to the armature for varying the fixed spring load on the throttle plate and the screw and spring are axially movable in unison upon actuation of the armature, a source of electrical current for the coil, and speed controlled switch means actuated by the output speed of rotation of the transmission for controlling the supply of current to the coil.

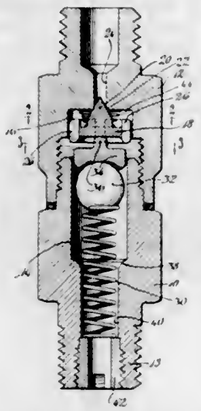
2,612,966
POLYETHYLENE AIR FILTER
William H. Nicol, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application March 29, 1950, Serial No. 152,670
8 Claims. (Cl. 183—45)



1. A gas filter for removing suspended particles of matter from a gas, which filter comprises polyethylene elements arranged to form a gas pervious mat of sufficient thickness to permit multiple contact with the polyethylene elements of the particles of matter carried by the gas.

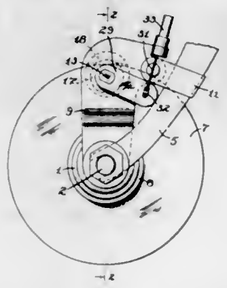
2,612,967
MEASURING VALVE FOR CENTRALIZED LUBRICATING SYSTEMS
John T. Leonard, Evanston, Ill.
Application June 21, 1949, Serial No. 100,423
2 Claims. (Cl. 184—7)

1. A measuring valve for use in a centralized lubricating system, comprising a casing having an inlet for connection to a source of lubricant which is intermittently placed under pressure and having an outlet for connection to a part to be supplied intermittently with measured charges of lubricant, said casing having a bore forming a cylinder, an inlet valve seat between the inlet and the cylinder, an outlet valve seat between the cylinder and the outlet, an outlet valve guided for reciprocatory movement in the cylinder, an inlet valve cooperable with the inlet valve seat, means limiting the extent of movement of the inlet valve from its seat, a spring acting in a direction to hold the inlet valve away



from its seat, said spring exerting a force on said valve only slightly greater than the weight of the valve, a piston reciprocable in the cylinder, the piston and cylinder providing a restricted bypass around the piston, and a spring compressed between the casing and the outlet valve and normally pressing the inlet valve against its seat by a force transmitted substantially axially through the outlet valve, the piston, and the inlet valve.

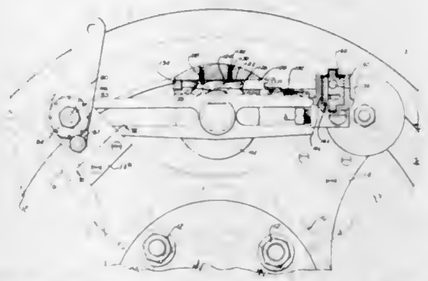
2,612,968
VEHICLE WHEEL BRAKE
E. Elliott Hood, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application August 21, 1950, Serial No. 180,615
7 Claims. (Cl. 188—26)



1. In combination with a vehicle wheel having a hub, an axle, and a frame member affixed to the axle, a brake disc mounted on said hub to rotate therewith, a brake support fixed to the axle and frame member, a bearing fixedly mounted in the support, a shaft journalled in the bearing having a threaded portion, a nut threaded on said shaft, a brake pad fixed to the nut and movable thereby into and out of engagement with the brake disc, a cup member slidably but non-rotatably connected to the support and having a splined connection with the nut, said cup member having a lateral opening into which the brake

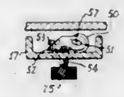
disc projects, a second brake pad in the bottom of the cup in position to engage the brake disc, a thrust bearing between the screw shaft and cup, and means for rotating said shaft.

2,612,969
BRAKE
Jesse G. Hawley, Painted Post, N. Y., assignor to Hawley Brake Corporation, Bath, N. Y.
Application September 13, 1946, Serial No. 696,634
19 Claims. (Cl. 188—72)



1. A vehicle brake comprising a stationary bracket including a pair of circumferentially-spaced, radially-directed arm portions, a rotary disc positioned closely adjacent the arm portions and of a radius slightly smaller than the arm portions, a pair of brake beams, one on each side of the disc, one of said beams being slidably supported on the arm portions for movement toward and from the disc, resilient means normally spacing the beams apart, hydraulically-operated means connecting one end of the pair of brake beams together and adapted to move the said ends of the pair of beams toward each other, means connecting the other ends of the brake beams together, cam means for operating said connecting means to move the said other ends of the beams toward each other to serve as a parking brake, means adjacent the center of each beam for holding a substantially round body of friction material adjacent the disc, said means including a plug threaded in the beam, teeth on the periphery of the plug, pawls engaging with the teeth, crank means, a sliding pin positioned between the brake beam ends and connected to the crank means, and links connecting the crank means to the pawls to effect rotation of the plugs to move the friction bodies towards the disc when the beam ends move together more than the proper spacing.

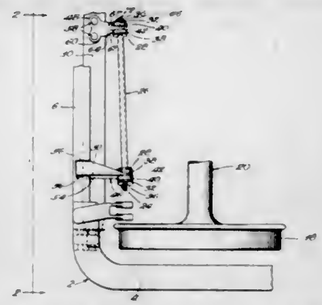
2,612,970
BRAKE ASSEMBLY FOR ROTARY CARD FILES
Bernard Discount, Jamaica, N. Y.
Application May 9, 1950, Serial No. 160,870
3 Claims. (Cl. 188—82.84)



1. The combination with a braking device for controlling the movement of a surface moving relative thereto, of means for projecting said device toward and retracting said device from said surface comprising a support member positioned adjacent said surface and spaced therefrom and having a through threaded bore there-

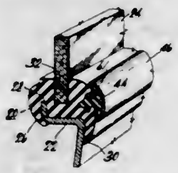
in; a stud having threads intermediate its ends, and including means at one end for facilitating manipulation thereof, and a reduced diameter at the other end thereof for rotatable engagement with said device, said stud threadedly engaging said bore with said reduced end on the side of said support nearest said surface; and a stop and guide member having a shank and a head at one end thereof and having its shank extending loosely through a hole in said device and its free end secured in said support on the side nearest said surface for making sliding engagement with said braking device whereby to prevent rotation thereof relative to said support and to limit the extent of projection from said support.

2,612,971
BRAKE BEAM STABILIZER
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 17, 1949, Serial No. 81,979
10 Claims. (Cl. 188—207)



10. In a brake arrangement for a railway car truck having a wheel and axle assembly and a truck structure supported thereby; the combination of brake means for said assembly comprising a beam extending transversely of the truck and carrying friction means for engagement with the assembly to decelerate rotation of the same, and stabilizing means for said beam comprising a stabilizer member having a pivotal connection to the structure and having another pivotal connection to the beam, said stabilizer extending transversely of the structure, and said connections comprising resilient means for biasing the beam to release position.

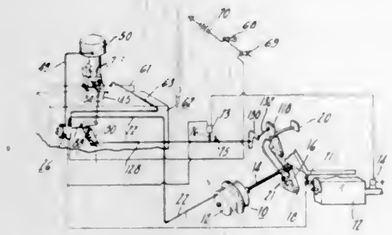
2,612,972
SEALING STRIP
Leo C. Heimgartner, Russell J. Bush, and Paul E. Clingman, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 8, 1949, Serial No. 103,652
1 Claim. (Cl. 189—78)



A connector strip of elastic deformable rubber-like material having continuous longitudinal grooves, adapted to receive portions of two mem-

bers to be joined, said connector strip also having a continuous longitudinal hollow into which one wall of one of said grooves is movable to facilitate assembling the strip on the two members, an auxiliary strip of elastic deformable rubber-like material having a continuously extending wedge portion of substantially the same shape as said hollow and insertable into said hollow throughout its length to spread the material of said connector strip and force it into pressure engagement with said members, said auxiliary strip having integral continuously extending flexible flanges thereon overlying and concealing said wedge portion and a metal trim strip having its marginal edges extending around the edges of said integral flexible flanges in gripping relation therewith for holding the metal trim strip to the connector strip.

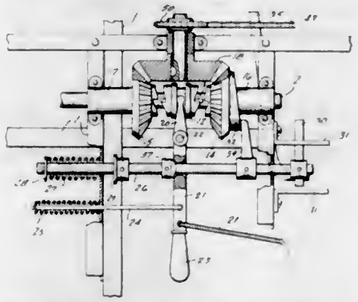
2,612,973
CLUTCH CONTROL MECHANISM
Stephen L. Janowski, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 26, 1950, Serial No. 164,505
8 Claims. (Cl. 192—.075)



1. In an automotive vehicle provided with an engine controlling throttle, a clutch, an accelerator for controlling the operation of the throttle and clutch, and manually operated means for opening the throttle; a motor operably connected to the clutch, valve means for controlling the operation of the motor, and force transmitting means interconnecting the accelerator, the manually operated means for opening the throttle, the throttle, and the valve means, said force transmitting means including means operated by the manually operated throttle opening means for opening the throttle independently of its operation by the accelerator.

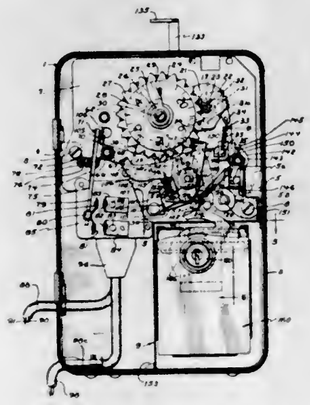
2,612,974
POWER ACTUATED OVERLOAD RELEASE CLUTCH
Norman R. Krause, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application February 14, 1947, Serial No. 728,617
11 Claims. (Cl. 192—150)

1. In a rotary clutch for driving work members and having intermeshing teeth on a pair of drive and driven clutch members presenting substantial resistance to axial disengagement under heavy power transmittal loads, a power clutch throwout mechanism comprising a cam rotated in correlation to the rotation of the driven clutch member, a lever mechanism normally free of said cam and disposed to be moved into the path of said cam to be operated thereby to effect axial separation of said clutch members, safety mechanism operable by said work members to move said lever mechanism into the path of said cam, and means for effecting disengagement of said lever



mechanism and cam and the resetting of said lever mechanism relative to said cam.

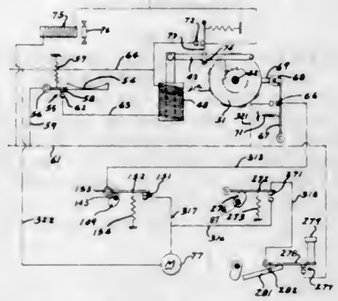
2,612,975
COIN CONTROLLED METER AND BANK THEREFOR
William P. Gallagher, River Forest, and Anthony Daniel Stolle and Donald E. Schroeder, Chicago, Ill., assignors to International Register Company, Chicago, Ill., a corporation of Illinois
Application August 26, 1950, Serial No. 181,618
13 Claims. (Cl. 194—9)



1. In combined meter and bank means of the character described, a casing, a switch in said casing for controlling the circuit of an associated apparatus, a coin controlled timing meter in said casing adapted for reception of a plurality of successively inserted coins, a bank in said casing receiving from said meter coins inserted thereinto, a setting member actuated responsive to insertion of coins in said meter and effective for advancing the latter a predetermined time period for each coin inserted, said meter comprising means for closing said switch responsive to insertion of a coin and holding it closed independently of said bank and for a time period corresponding to the number of coins inserted, lock means operable by two different keys effective when operated by one of said keys for locking said bank in said casing and releasing it for removal from said casing without unlocking said bank, said lock means when operated by the other of said keys being effective for unlocking said bank for removal of the coins therefrom, and means supplementary to said lock means for enabling and disabling said meter for advancement

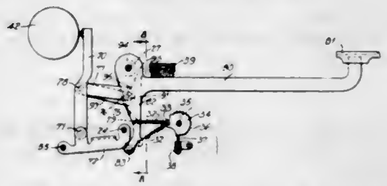
by inserted coins responsive to locking said bank in and releasing it for removal from said casing, respectively.

2,612,976
FORM ISSUING APPARATUS
William W. Harper and Lloyd E. Gilbert, Birmingham, Ala., assignors to Insurograph, Incorporated, a corporation of Delaware
Application December 24, 1948, Serial No. 67,207
15 Claims. (Cl. 194—10)



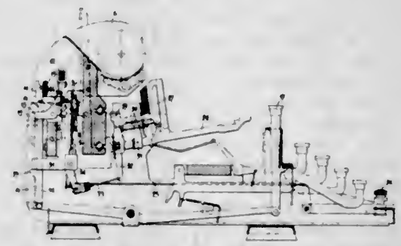
10. In apparatus for issuing individual forms from a continuous sheet of the same, a coin mechanism, an electric switch closable upon the insertion of a coin in the coin mechanism, mechanism for printing data on the forms embodying spring actuated hammers and a type carrying amount wheel, electrically operated means controlled by said switch to partially rotate the amount wheel and place the type thereon in printing position responsive to the insertion of a coin in said coin mechanism, spring actuated sheet feeding mechanism, an electric motor for stressing the springs of the hammer and feeding mechanism, a second electric switch closable upon partial rotation of the amount wheel, circuits leading from said second switch to the motor for energizing the motor, mechanism to operatively connect the motor for stressing the hammer and paper feeding springs, means for releasing the printing and paper feeding mechanisms for actuation by their springs, and a shear for cutting a form from said sheet after the printing and feeding operations.

2,612,977
TYPE BAR OPERATING MECHANISM FOR STENOGRAPHIC TYPEWRITERS
Harrison M. Von Duyke, Wilmington, Del., assignor to New Dictatype Company, Incorporated, Wilmington, Del., a corporation of Delaware
Original application October 18, 1947, Serial No. 780,607. Divided and this application March 14, 1950, Serial No. 149,497
4 Claims. (Cl. 197—9)



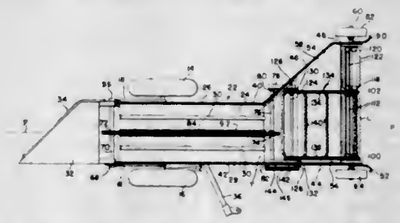
1. In a stenographic typewriter, a set of three type bars each having individual printing characters at one end thereof, separate links for operating said type bars to effect the printing, two manually operable control levers to which two of said links are respectively connected, and a third lever to which the other link is connected, said third lever being connected to said control levers at different points whereby said third lever is operated to effect printing action by its type bar only when both control levers are actuated in unison.

2,612,978
TYPEWRITER CARRIAGE CONTROL MEANS SUPPORT
Giuseppe Prezioso, Yverdon, Switzerland, assignor to Paillard S. A., Sainte-Croix (Vaud), Switzerland, a corporation of Switzerland
Application June 8, 1949, Serial No. 97,818
In Switzerland June 25, 1948
6 Claims. (Cl. 197—186)



1. In a typewriter including a carriage, the combination comprising a stationary frame including slideways for the carriage, a detachable support affixed to the frame behind the slideways, yieldable means mounted on the support and urging the carriage to a predetermined position, an escapement mechanism mounted on the support and controlling the advancement of the carriage, a back-spacing mechanism mounted on the support, margin counterstop means mounted on the support and limiting the movement of the carriage, a line lock mechanism mounted on the support, a carriage release mechanism mounted on the support, tabulating counterstop means mounted on the support, carriage brake means mounted on the support and operable simultaneously with the carriage release mechanism, and bell means mounted on the support.

2,612,979
BALE LOADER WITH WIDE PICKUP MEANS
Marcus E. McClellan, Ottumwa, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application February 2, 1950, Serial No. 141,933
9 Claims. (Cl. 198—9)



1. A bale-handling machine for picking up from the ground bales of material such as hay, straw or the like, which bales have greater length than width and which lie on the ground generally along but randomly lengthwise and crosswise of a pick-up path, comprising: a frame; means carrying the frame for advance along said

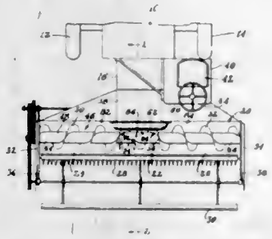
path; bale-receiving means on the frame having a forwardly disposed bale-receiving throat of sufficient width to receive a bale lengthwise but not crosswise thereof and a pair of guide elements extending rearwardly from said throat, said guide elements being parallel and spaced apart transversely on the order of the width of the throat; bale-gathering means connected to the frame ahead of said throat and including a first side wall element extending generally straight ahead from the throat substantially as an extension of one of said guide elements and having a front end portion in longitudinal alinement with said one guide element, and a second side wall having a rear end portion adjoining the throat in longitudinal alinement with the other of said guide elements and further having a front end portion laterally offset outwardly relative to said other guide element and transversely alined with and transversely spaced from the front end portion of said first side wall element a distance sufficient to receive a bale crosswise therebetween; bale-pick-up means extending substantially completely across between the front end portions of the side wall elements and operative to move a bale rearwardly between said side wall elements; and means of less effective width than the pick-up means and movable rearwardly immediately behind that portion of the pick-up means ahead of the throat, for receiving a bale from the pick-up means and for advancing the bale to the throat.

2,612,980

MATERIAL-HANDLING MECHANISM

Alvin W. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application November 17, 1950, Serial No. 196,145
9 Claims. (Cl. 198—9)



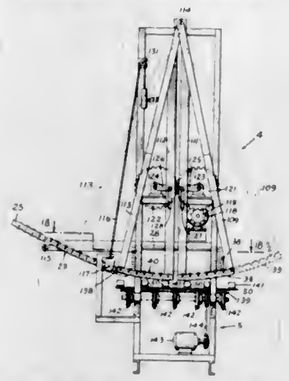
1. Material-handling mechanism for a harvester having a longitudinal body including a forward, relatively narrow feed opening and having a forward elongated conveyor trough arranged with its length transverse to the body and ahead of the feed opening to provide a trough portion immediately ahead of and substantially coextensive with the feed opening and a pair of extension trough portions projecting transversely at opposite sides of the body and feed opening, comprising: an elongated conveyor shaft rotatably carried by the trough and substantially coextensive therewith; a pair of main helical vanes oppositely wound on and fixed to the shaft for conveying material in opposite axial directions and along the trough from opposite ends thereof to the feed opening, said vanes having inner terminal ends spaced coaxially apart on the order of the width of the feed opening; means connected to and rotatable with the intermediate shaft portion between said inner terminal ends of the vanes for intercepting axially moving material conveyed by the main vanes and including radially projecting, material-engaging elements for moving such material rearwardly into the feed opening; and a plurality of helical vane extensions selectively mountable on or dismountable from said intermediate shaft portion and providing respectively continuations of the vanes at their inner terminal ends for selectively increasing or decreasing the axial lengths of the main helical vanes, said extensions when mounted intersecting the material-engaging elements to decrease the material-engaging capacity of said elements.

2,612,981

MATERIAL-CONTROLLED ARTICLE TRANSFER MECHANISM

William Hyde Alden, Jr., Bryn Athyn, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Original application December 4, 1948, Serial No. 63,513. Divided and this application January 25, 1950, Serial No. 140,502
6 Claims. (Cl. 198—21)



4. Apparatus adapted to deposit a stack of articles onto a conveyor comprising a combination means for passing a stack of articles onto a platform, said platform comprising one sloping section hinged at one end, a curved second section adjacent the unhinged end, and a curved third section adjacent said second section, said three sections forming a substantially continuous surface, a counterweight for pivotally elevating said first section out of the path of said second section, supports for suspending said second and third sections, a switch adapted to be operated by articles on said platform, means including said supports under control of said switch for diverging said second section and said third section thereby forming an aperture between them through which the stack of articles may drop, and a conveyor beneath said platform adapted to receive said stack of articles dropping through the aperture, a second switch adapted to be operated by said articles on said conveyor, and means including said supports under control of said second switch for returning the second and third sections of platform to their normal closed position.

2,612,982

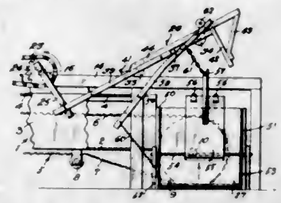
AUTOMATIC FEEDER AND TRANSFER MECHANISM FOR TOBACCO ORDERING MACHINES

William W. Michaux, Jr., Richmond, Va.

Application May 26, 1949, Serial No. 95,527
3 Claims. (Cl. 198—24)

1. In a feeding attachment for a tobacco ordering machine having a main belt with a horizontal

loading pass, a feed belt, means for mounting said feed belt to have a horizontal delivery pass movable closely over and transversely across the loading pass of the ordering machine, a pair of spaced normally horizontal tracks fixed at right angles to said feed belt, and parallel with the main belt, a frame, scraper means on said frame, first and second pairs of coaxial rollers journaled on said frame and mounting the same for movement on and along tracks, a shaft journaled at right angles to said tracks, first and second par-



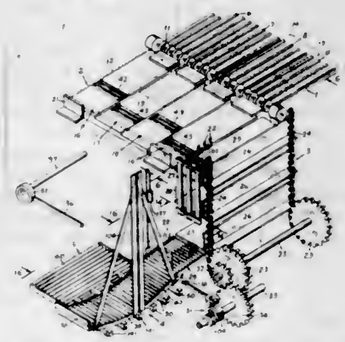
allel crank arms fixed to said shaft, first and second pitmans each pivoted at one end to a respective crank and at the other end to said frame to move said scraper across said feed belt in a feeding stroke, means carried by said pitmans to engage said frame at the end of said feeding stroke to pivot said frame and scraper about the axis of said first pair of rollers to thereby elevate said scraper means during the return stroke of said frame, and power-driven means driving said shaft and feed belt in timed relation.

2,612,983

SHINGLE COLLECTING AND BUNDLING MACHINE

William Hyde Alden, Jr., Bryn Athyn, Pa., assignor to Allied Chemical and Dye Corporation, New York, N. Y., a corporation of New York

Application December 4, 1948, Serial No. 63,513
3 Claims. (Cl. 198—35)



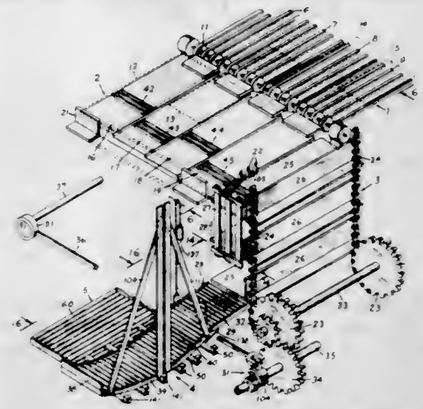
1. An article handling and stacking apparatus comprising a table platform composed of a plurality of spaced rollers disposed at a right angle to the direction of the delivery of the articles and divided into parallel lanes of descending level upon which articles discharge, said table platform being inclined at an angle to permit incoming articles to slide onto said lanes by gravity, a stop adjacent the end of said lanes to maintain the articles on the table, pushers operating across the parallel lanes in the spaces between rollers adapted to push the articles on said lanes from lanes of higher elevation to lanes of lower elevation thereby stacking said articles and discharging the stacked articles from said table, means for retaining said pushers during its forward motion in upright position in contact with the edges of said articles on said table, and means for lowering said pushers beneath the horizontal plane of said articles on said table when retracting said pushers.

2,612,984

SHINGLE CONVEYER

William Hyde Alden, Jr., Bryn Athyn, Pa., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

Original application December 4, 1948, Serial No. 63,513. Divided and this application January 25, 1950, Serial No. 140,501
5 Claims. (Cl. 198—35)



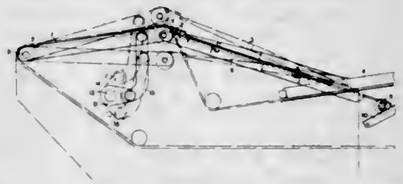
1. An article collecting and counting conveyor comprising in combination a continuous chain passing over sprockets disposed above and below the position for receiving articles, a series of spaced collecting pockets adapted to receive said articles mounted on said continuous chain, a discharge position of said collecting pockets disposed at an elevation below said receiving position, said collecting pockets at the discharge position being inclined at an angle to cause discharge by gravity of the articles on the collecting pockets, an escapement adapted to regulate the movement of said collecting pockets, and means for actuating the escape mechanism to permit intermittent movement of said collecting pockets.

2,612,985

VERTICALLY SWINGABLE CONVEYER AND CHUTE

Edward Milner Crosland, Culcheth, near Warrington, England, assignor to T. & T. Vicars Limited, Newton-le-Willows, England, a British company

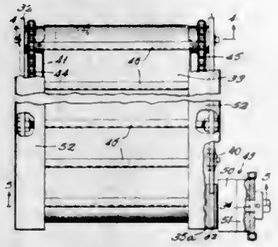
Application February 13, 1948, Serial No. 8,224
In Great Britain February 7, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires February 7, 1960
3 Claims. (Cl. 198—73)



1. A conveyor arrangement for individual articles comprising in combination a conveyor, a

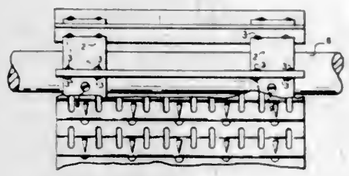
pair of guide pulleys for said conveyor relatively adjustable in height, a fixed series of guide fins above part of said conveyor, an adjustable dribble board pivotally connected at one end to one of said guide pulleys supporting one end of said dribble board, an inclined track, and a roller support displaceable along said inclined track for the opposite end of said dribble board.

2,612,986
CHIP CONVEYING MEANS
Edmund J. Lomazzo, Norwalk, Conn., assignor to Sparks Machine Tool Corporation, Norwalk, Conn., a corporation of Connecticut
Application September 25, 1948, Serial No. 51,290
2 Claims. (Cl. 198—168)



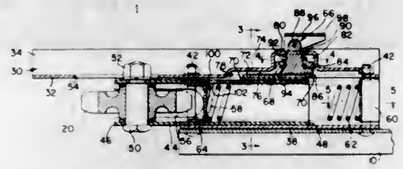
2. A chip conveyor for use with a metal working machine having a chip-receiving opening comprising a frame having one end adapted to be supported under said opening; a shaft at each end of the frame; an endless band stretched between and supported by said shafts to form a chip-receiving table, one of said shafts being fixed against rotation and holding said band against movement and the other shaft being rotatable and having drive means therefor; endless chains positioned on each side of the band, and mounted on sprockets rotatable on said first shaft and connected to said other shaft to be driven thereby; and a plurality of cross bars each having a scraper member thereon carried by the chains and movable longitudinally over the band to scrape chips deposited thereon and discharge them from the other end of the frame.

2,612,987
BARRED ROLL DRIVE
Robert L. Sjostrom, Andover, Mass.
Application August 4, 1949, Serial No. 108,550
2 Claims. (Cl. 198—203)



2. In combination with a link feed apron of the type described, having individual slats interlocked with one another in arcuate engaging sections on both side edges of the slat, a driving means for said apron, comprising a plurality of cylindrical collars coaxially aligned, a plurality of equally spaced radial grooves in the outer face of the collars with the grooves in successive collars aligned with one another, a bar in each series of aligned grooves securing the collars together as a single unit, the spacing of said bars being such as to engage the arcuate side sections of the slats.

2,612,988
CHAIN-TIGHTENING MEANS WITH RATCHET LOCK
Norman F. Andrews, Ankeny, Iowa, assignor to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application January 14, 1950, Serial No. 138,655
13 Claims. (Cl. 198—208)

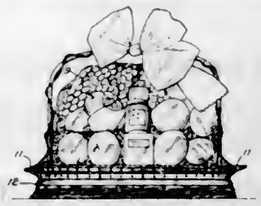


1. For a crop harvester having gathering mechanism including a support, an endless crop-moving chain disposed in elongated looped form over the support and having opposite end loops, and rotatable means mounted on the support and carrying one end loop of the chain, the improvement residing in adjustable mechanism for mounting on the support to carry the other looped end of the chain in spaced relation to the rotatable means, comprising: a carrier having means for affixation to the support at a portion of the support spaced lengthwise of the chain from the rotatable means, said carrier including a tubular guide extending lengthwise as respects the chain and having an open end remote from the rotatable means, and including means closing its opposite end; a slide means carried by the guide for movement lengthwise thereof and having an inner end portion within the guide and further having an outer end portion projecting lengthwise outwardly of the open end of the guide; biasing means within the guide and acting between the inner end portion of the slide and the end-closing means of the guide to urge the slide outwardly of the guide; means on the projecting end portion of the slide for the carrying of the other looped end of the chain; a first lock member fixed to the inner end portion of the slide; means providing a chamber on the guide opening to the interior of the guide in the zone of the first lock member; a second lock member movably carried by the chamber means for engagement with the first lock member; means within the chamber means normally urging the second lock member into engagement with the first lock member, said lock members having cooperative interengageable, one-way-overrunning portions arranged to provide for movement of the slide outwardly under action of the aforesaid biasing means and for locking of the members upon attempted inward movement of the slide; and limit means cooperative between the guide and slide and separate from the chain for limiting outward movement of the guide.

2,612,989
DISPLAY PACKAGE AND MOUND THEREFOR
Glenn Harrison, Medford, Oreg.
Application November 16, 1946, Serial No. 710,303
1 Claim. (Cl. 206—45)

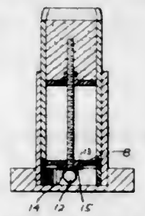
A package adapted for sale, display and shipping purposes, comprising a mound having a plurality of recesses therein to provide support for items over the outer surface of said mound, and a holder receiving said mound, said holder having bail type handle means and a configuration generally conforming to the base rim configuration of said mound, a plurality of items on said mound, a transparent wrapping between

said handle and said mound and enclosing said mound and items thereon, and means binding said wrapper under tension to said holder and in contact with such items to substantially im-



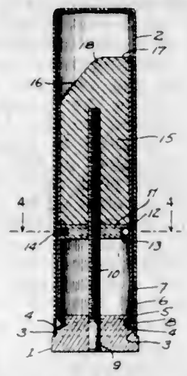
mobilize said items, said means including corners of said wrapping brought out to either side of said bail type handle means and twisted together and held in such twisted relationship by a piece of tape.

2,612,990
CARTRIDGE LIPSTICK
Chester H. Braselton, New York, N. Y.
Application January 7, 1948, Serial No. 835
10 Claims. (Cl. 206—56)



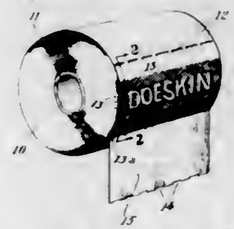
1. A cosmetic applicator of the cartridge type comprising a casing, a cartridge enterable into the casing, said cartridge having a paste feeding means therein including a portion rotatably fixed in the bottom of the cartridge, undercut drive-connecting means for said paste feeding means projecting from said rotatable portion, and spring means carried by said casing in position to be flexed to admit said connecting means therepast and to spring back into the undercut portion thereof to retain said cartridge in said casing.

2,612,991
NONRETRACTABLE LIPSTICK
Chester H. Braselton, New York, N. Y.
Application September 15, 1948, Serial No. 49,328
1 Claim. (Cl. 206—56)



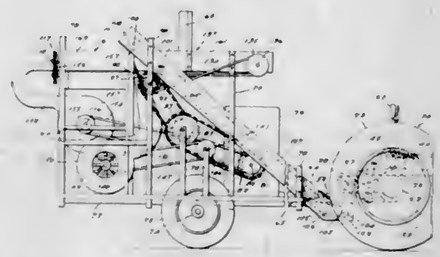
A non-retractable cosmetic applicator comprising a cylindrical tube, a base plug fitting the bottom end of the tube, said plug having a cylindrical portion fitting within the tube and provided with a peripheral groove, the bottom portion of said tube being displaced into said groove and establishing a rotatable connection between said base and tube, a plunger within said tube, screw means carried by said base and threaded through said plunger operable by rotation of said base relative to said plunger for advancing said plunger toward the upper end of the tube, and in which said plunger has a peripheral groove, and in which a split metal ring is located in said groove and frictionally engages said plunger and the inside wall of said tube with sufficient grip to prevent relative rotation therebetween during operation of said plunger advancing means.

2,612,992
ROLL PULL TAB
Thornton W. Tinkham, La Haska, Pa., assignor to Doeskin Products, Inc., New York, N. Y., a corporation of New York
Application February 3, 1950, Serial No. 142,254
2 Claims. (Cl. 206—58)



1. The roll of web material constituted by serially winding a length of said material upon itself and having a pattern of indentations impressed on a portion of the round surface of said roll, said indentations penetrating through more than one layer of said material and said pattern being spaced from the end of the outermost layer, and wherein the indentations of said pattern nearest the end of said outermost layer bend said end away from said roll.

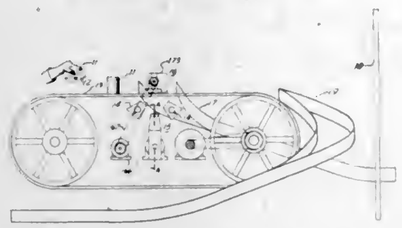
2,612,993
POTATO SEPARATOR
Simon J. Levesque, St. Leonard, New Brunswick, Canada
Application December 30, 1947, Serial No. 794,655
2 Claims. (Cl. 209—32)



1. In a towed apparatus for conveying, separating from spoil, and loading in containers a quantity of potatoes deposited thereon, a mobile frame rectangular in plan and having means extending from its front end connectable to a towing vehicle; a first conveyor aligned longitudinally with one side of the frame and ex-

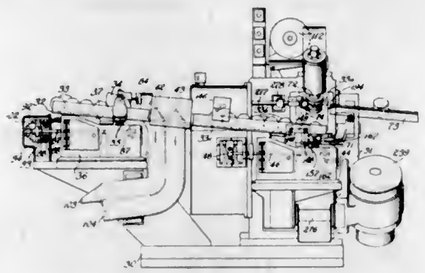
tending from the front end to the rear end thereof to receive intermixed potatoes and spoil at the front end and move the same to the rear end of the frame, the first conveyor having cleats alternating with open spaces to effect gravitation of some of the spoil to the ground surface during said movement; a second conveyor arranged transversely of the frame at the rear end thereof and extending from said one side to the other side of the frame, said second conveyor having its head end positioned to receive material from the discharge end of the first conveyor and its discharge end projecting laterally of and beyond the other side of the frame; a first blower having its discharge end disposed between the discharge end of the first conveyor and the head end of the second conveyor and adapted to blow an additional quantity of spoil from the potatoes; a third conveyor aligned longitudinally with said other side of the frame and having its head end disposed adjacent one side of the second conveyor intermediate the ends of the second conveyor, the discharge end of the third conveyor being disposed proximate the front end of the frame; a second blower having its discharge end arranged transversely of the second conveyor and aligned longitudinally with the third conveyor to blow the potatoes laterally off the second conveyor onto the third conveyor while leaving the remaining spoil on the second conveyor for passage off the discharge end thereof; a platform mounted on the front end of the frame contiguous to said other side of the frame and to said discharge end of the third conveyor, the platform being adapted to support containers for the filling thereof with potatoes discharged from the third conveyor, said conveyors being arranged in the shape of a U extending about the respective sides and rear end of the frame and defining an open space at the center of the frame; and means mounted in said open space of the frame operatively linked to the respective conveyors and blowers for driving the same simultaneously.

2,612,994
CLASSIFYING APPARATUS AND METHOD
Norman J. Woodland, Ventnor, N. J., and Bernard Silver, Philadelphia, Pa.
Application October 20, 1949, Serial No. 122,416
11 Claims. (Cl. 209—111)



1. Apparatus for classifying articles having thereon concentric circular light-reflective outer classification lines and inner auxiliary lines; comprising means for continuously moving the articles in a straight path past a scanning position; scanning means at said position for producing electrical pulses corresponding to said lines; means for oscillating said scanning means transversely of said path to effect scanning diametrically of the circular pattern on each article; a plurality of normally-inoperative electronic classifying devices; electronic means responsive to the pulses corresponding to said auxiliary lines for conditioning said devices for operation; and means for effecting operation of said devices, by the pulses corresponding to said classification lines, in a pattern corresponding to the pattern of the classification lines on each article.

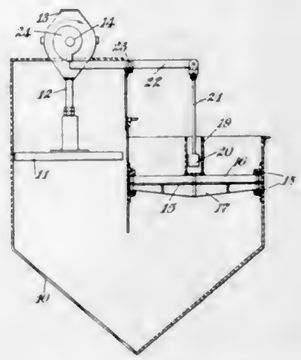
2,612,995
PISTON WEIGHING AND ASSORTING MACHINE
Walter R. Kahle and Edward R. Johnson, Cincinnati, Ohio, assignors to The Morris Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio
Original application December 22, 1949, Serial No. 134,400. Divided and this application March 1, 1951, Serial No. 213,418
5 Claims. (Cl. 209—121)



1. In a piston weighing and trimming machine, a piston grading apparatus which comprises a conveyor, a scale in the run of said conveyor, said scale having a movable beam adapted to register the weight of pistons in said conveyor one at a time, a block attached to said beam and movable therewith, a backing member having a face adjacent and parallel to the path of movement of said block, a pair of switch actuator plates pivotally attached to said backing member, each of said actuator plates having an actuator arm overlying the path of movement of the block and adapted to engage the block and hold the block against the face of the backing member, said actuator arms being spaced along the path of the block, said block being wider than the space between the actuator arms, said beam and block being adapted to come to rest at a position where both actuator arms are engageable with the block when a piston having a weight between predetermined maximum and minimum values is disposed on the scale, a pair of switches, each of said switch actuator plates being adapted to actuate one of said switches when the actuator arm thereof is advanced past said block, said beam and block being adapted to come to rest at a position where one of said actuator arms is adapted to swing past the block to actuate one of the switches when a piston having a weight above the predetermined maximum value is disposed on the scale, said beam and block being adapted to come to rest at a position where the other of said actuator arms is adapted to swing past the block to actuate the other of said switches when a piston having a weight below the predetermined minimum value is disposed on the scale, means for automatically advancing pistons onto the scale one at a time and for holding each piston on the scale a predetermined time to permit the scale beam and block to come to rest, means for operating in timed relation with the piston advancing and holding means for urging the actuator arms toward the face of the backing member a predetermined time after one of the pistons is advanced onto the scale, and a piston discharge

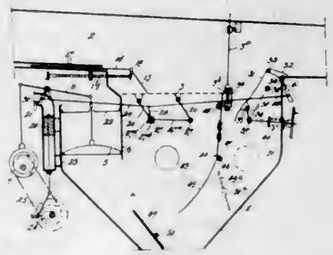
actuated by said switches for discharging the piston from the conveyor if the weight thereof is outside the predetermined maximum and minimum limits.

2,612,996
ORE JIGGER
Ian Leslie Patterson, Kuala Lumper, Selangor, Malaya
Application September 19, 1949, Serial No. 116,495
In Great Britain July 8, 1948
4 Claims. (Cl. 209—425)



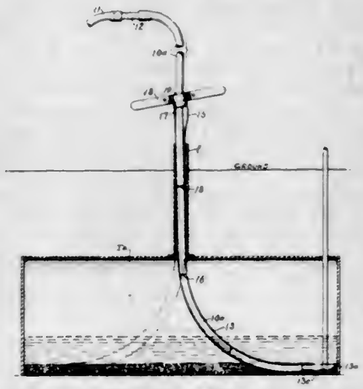
1. In a jig for the treatment of mineral ores of the type wherein the ore is passed over a screen under water and is subjected by water currents to pulsating up-and-down movements to effect stratification of the ore, the provision of a stationary shell, a screen, upper and lower grid members between which the screen is rigidly clamped in a horizontal position within the shell, upper and lower resilient rubber pads carried by the shell between which the screen-and-grid assembly is mounted for oscillatory up-and-down movement as a unit in the shell, and a hammer guided for vertical movement centrally of the screen for imparting blows direct to the grid members to produce vertical oscillatory shock movements to the screen-and-grid assembly.

2,612,997
JIG FOR TREATING MATERIALS OF DIFFERENT SPECIFIC GRAVITIES
Edmond Harvengt, Moustier-sur-Sambre, Belgium, assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois
Application May 16, 1947, Serial No. 748,428
In Belgium May 22, 1946
11 Claims. (Cl. 209—457)



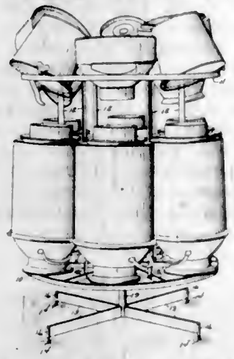
1. A jig for treating materials comprising grains or particles of different densities, such as coals, ores and the like, in variable quantities and variable compositions subjected to periodic liquid impulses, including a jig box adapted to have liquid therein to a predetermined level, means for producing pulsations in the liquid, a sieve pivotally supported in the upper portion of the jig box and spaced at its discharge end from the adjacent wall of the box to provide a discharge opening emptying into the portion of the box located below the sieve, adjustable means to set said sieve in a basic lengthwise position within an angle extending on either side of the horizontal, an adjustable weir at the discharge end of the sieve, adjustable discharge means positioned in the aforesaid discharge opening for controlling the effective area of said opening, and plate means for covering a portion of the length of the sieve surface to establish the useful working area of said surface.

2,612,998
APPARATUS FOR REMOVAL OF OIL TANK SLUDGE AND SEDIMENT
Talbot A. Smith, Baltimore, Md.
Application March 12, 1947, Serial No. 734,112
3 Claims. (Cl. 210—209)



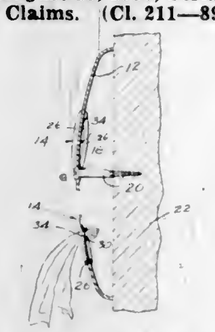
1. In a device for conducting sludge and sediment from oil-tanks, the combination comprising a suction-conduit that includes primary and secondary flexible conduit-sections; and a transparent conduit-section having its ends in and secured to ends of the flexible conduit-sections and in open communication therewith, a rigid conduit-section secured to the primary flexible conduit-section and in open communication therewith and being a means movable along and across a tank's bottom and to receive sludge therefrom, said primary flexible conduit section having an inlet-end cooperatively engaged with said rigid conduit section and being a means to extend into a tank and operable to be deflected so as to dispose said rigid conduit section at various points on the bottom of the tank while a long enough portion of said primary flexible conduit-section extends from the tank to be grasped by an operator for moving the inlet-end and the rigid conduit-section to various points on the bottom of the tank, a manipulative lever that includes a sleeve around and movable on said primary flexible conduit-section, and a thin-wide springy metal strip having one end secured to said primary flexible conduit-section at a point near said inlet-end and extending thence along the primary flexible conduit-section and secured to the latter at points between said inlet-end and lever and secured to said lever for manipulative cooperation in causing said primary flexible conduit to be flexed either forwardly or rearwardly.

2,612,999
ROTARY MILK CAN AND BUCKET RACK
Donald C. Zeis, Cromers, Ohio
Application March 13, 1950, Serial No. 149,299
1 Claim. (Cl. 211—77)



In a rotatable milking equipment rack, the combination which comprises a spider having radially disposed arms with a vertically disposed arms with a vertically disposed centrally positioned shaft extended upwardly therefrom, bolts threaded in the outer ends of the arms of the spider, lock nuts on the said bolts, a tube freely positioned over the vertically positioned shaft, radially disposed arms extended outwardly from the upper end of the tube, a circular band carried by the outer ends of the radially disposed arms extended from the tube, spaced vertically positioned bars extended upwardly from the said arms on the upper end of the tube, corresponding radially positioned arms carried by the upper ends of the bars, a cylindrical band carried by the outer ends of the arms on the upper ends of the bars, and a hub connecting the inner ends of the arms on the upper ends of the bars.

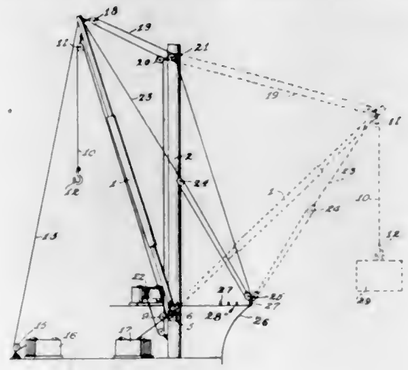
2,613,000
TOWEL OR CLOTH HOLDER
Dudley E. Moore, Kansas City, Mo.
Application August 15, 1950, Serial No. 179,547
2 Claims. (Cl. 211—89)



1. A cloth holder comprising a support having openings with edges formed therein, means for mounting the support on a wall, resilient discs having grooved circumferential edges, said grooved edges being mounted on the edges of the openings in the support and said discs having reinforced slits extending transversely therethrough.

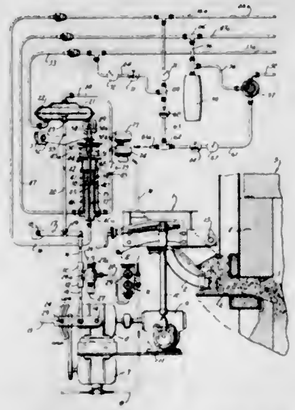
2,613,001
CARGO HANDLING APPARATUS FOR SHIPS
Burton M. Green, Ballston Spa, N. Y.
Application November 12, 1947, Serial No. 785,383
4 Claims. (Cl. 212—3)

1. A cargo handling derrick apparatus comprising with a supporting structure such as a ship deck having an upstanding cargo mast with a cargo boom swingably mounted at one end on the lower part of the mast for up and down swinging lifting movement of the outer end and for transverse swinging movement over the ship deck and to positions with the outer end laterally extending beyond the deck, a hoist cable on said boom with a hoist end depending from the outer end of the boom and a hauling end extending to and available upon the deck, a cable pulley on the outer portion of the boom, a pair of cable pulleys on the upper part of the mast, a deck



cable pulley connected on the deck at a location spaced outwardly laterally from the lower part of the mast, a rigging cable connected with the outer end of the boom extending through said deck cable pulley and then through one of the pair of cable pulleys and through the cable pulley on the outer end of the boom and then back through the other cable pulley of the pair and then downwardly with a hauling end extending to and available upon the deck, and an inboard control guy cable connected at one end to the outer end of the boom and having a hauling end extending to and available upon the deck.

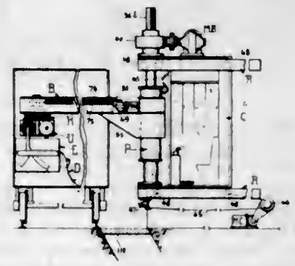
2,613,002
MOLTEN GLASS LEVEL CONTROL APPARATUS
John S. Light, Granby, and Earl V. De Carli, Ellington, Conn., assignors to Emhart Manufacturing Company, a corporation of Delaware
Application September 17, 1948, Serial No. 49,748
15 Claims. (Cl. 214—18.2)



1. In a glass level control apparatus, the combination of a level gauging mechanism to detect

departures from a predetermined control point of the level of molten glass in a forehearth or like container, operationally adjustable means to control the charging rate of apparatus for charging batch to a glass melting tank for supplying molten glass to said container, and control means operatively connecting said level gauging mechanism and said operationally adjustable means and responsive to the former automatically to adjust the latter at a rate proportional to departures of glass level from said predetermined control point detected by said gauging mechanism.

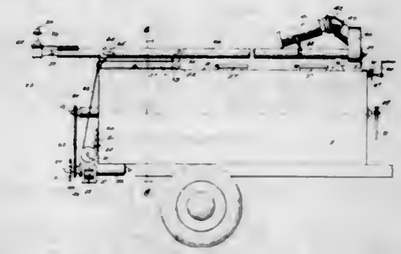
2,613,003
GRAIN UNLOADING MACHINE
Andrew P. W. Buck, St. Paul, Minn., assignor of one-half to Walter A. Kostick, Minneapolis, Minn.
Application January 21, 1946, Serial No. 642,546
6 Claims. (Cl. 214—44)



6. In a machine for unloading material in particle form from boxcars and the like, a support mounting adapted to be positioned within the medial portion of a boxcar, a head journaled in said mounting in the manner of a turntable for adjustment on a vertical axis, a pair of horizontally extensible supporting and actuating units mounted in side by side relationship upon said head and telescopically extensible, oppositely substantially diametrically of said head, a depending upstanding push shovel connected to the outer end of each of said extensible units and wholly supported thereby, mechanism for rotatively adjusting said head from a point removed therefrom and power mechanism for alternately protracting and retracting said extensible supporting units in unison to actuate said push shovels, thereby intermittently conveying material from opposite positions within a boxcar to a location substantially below said head while balancing the operation of and power applied to said pair of extensible supporting units, and control mechanism for limiting the outward or protracted extension of said supporting units, comprising an abutment element mounted adjacent the outer end of each of said units actuated when the push shovel adjacent thereto is thrust against a wall to shut off protracting power.

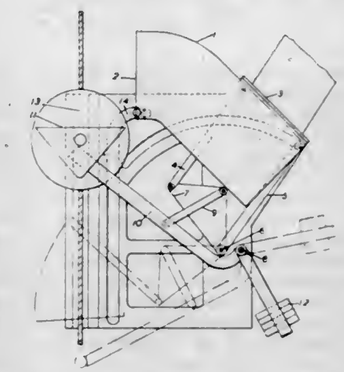
2,613,004
APPARATUS FOR TRANSPORTING AND HANDLING FINELY GROUND MATERIALS
Arthur R. Kane, Corpus Christi, Tex., assignor to Bulk Barites, Inc., Corpus Christi, Tex., a corporation of Texas
Application March 5, 1948, Serial No. 13,136
4 Claims. (Cl. 214—83.32)

1. An apparatus for transporting and handling ground materials, comprising a body having a discharge opening at one end thereof, a vertically movable spiral conveyor rotatable in a horizontal plane, resting on the surface of the material handled within the body portion, means for rotating the spiral conveyor whereby material is fed longitudinally of the body portion to the discharge opening, a discharge tube communicating with



the body through the discharge opening, a spiral conveyor operating within the discharge tube feeding material longitudinally of the tube, and a discharge pipe including a spiral conveyor into which material is fed from the discharge tube, and a delivery spout mounted on the discharge end of the discharge pipe.

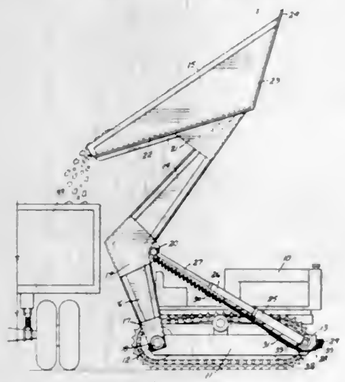
2,613,005
TRANSFER OF MATERIALS
Arthur Crompton, Lincoln, England, assignor of one-half to Robey & Co. Limited, Lincoln, England, a British company
Application August 24, 1950, Serial No. 181,246
In Great Britain August 31, 1949
3 Claims. (Cl. 214—118)



1. Apparatus for the transfer of materials from a collecting receptacle in predetermined quantities into another receptacle, such as a conveyor bucket, skip or movable container, comprising a transfer chamber in the form of a hollow cube having a curved discharge mouth, a filling opening in the lower portion of the chamber, the transfer chamber being pivotally mounted on two pairs of levers, one pair of levers mounted at their lower ends on an immovable fulcrum and the lower ends of the other pair on a plate or system of levers pivoted on the immovable fulcrum, an operating arm pivotally mounted on an immovable fulcrum with the other end extended to a suitable point at which the system can be operated, a link between the operating arm and the plate or system of levers, so arranged that on depressing the end of the operating arm, a movement is imparted to the transfer chamber so that it produces a radial movement of the discharge mouth of the trans-

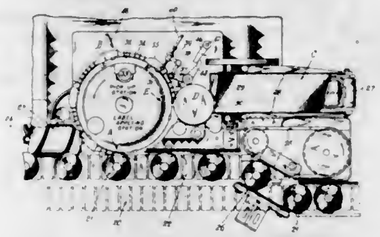
fer chamber until same is in line vertically with the bucket, skip or container after which the continued movement of the discharge mouth of the chamber is vertically downwards, while at the same time the bottom of the chamber is pivotally declined from its upwards slope, through the horizontal and further declined until the contents of the chamber can slide down and out of the mouth into the bucket, skip or container, the motion being continued to the maximum arranged position by which time the contents of the chamber have been gradually and completely discharged, and means for returning the chamber to normal position.

2,613,006
SHOVEL ATTACHMENT FOR CRAWLER TRACTORS
Shirrell F. Bradford, Longmont, Colo.
Application August 20, 1949, Serial No. 111,469
1 Claim. (Cl. 214—131)



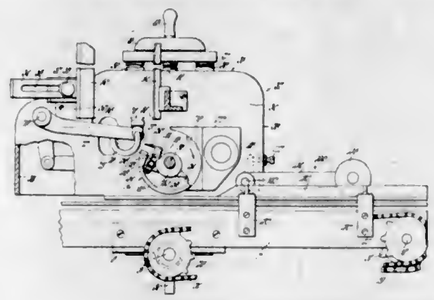
A tractor shovel comprising a tractor, an elongated substantially horizontal frame member mounted along each side of the lower portion of said tractor, a pivot member projecting outwardly from each frame member adjacent the rear end thereof a ram-carrying shaft projecting outwardly from each frame member adjacent the front end thereof, a shovel-carrying beam at each side of the tractor pivoted at its rear end to a companion pivot member and extending forwardly at an upward incline for a portion of its length and then at a downward incline for the remainder of its length, the downwardly inclined portions of said beams being of a length adapting them to extend beyond the front end of the tractor to a point adjacent the ground, a shovel carried by and supported between the front ends of the shovel-carrying beams and having a backing plate extending upwardly at a rearward incline over the said beams, a bottom plate secured along the front end of the backing plate and extending horizontally forwardly therefrom, a pivot shaft disposed under each beam transversely thereof at the point where the forwardly and inwardly inclined portion joins the forwardly and downwardly inclined portion thereof, plates carrying the pivot shafts and mounted against side faces of the said beams and constituting reinforcements for the same, a telescoping hydraulic ram pivotally mounted on each ram-carrying shaft and extending rearwardly therefrom at an upward incline and having its rear end pivoted to the pivot shaft adjacent the shovel-carrying beam, the said rams being sufficiently extensible to swing the shovel carrying beams upwardly and rearwardly to an elevated position shifting the backing plate from a rearwardly and upwardly inclined position ahead of the tractor to a rearwardly and downwardly inclined discharging position above and to the rear of the tractor, and means for returning the beams and the shovel to the loading poistion.

2,613,007
METHOD OF AND APPARATUS FOR ACTIVATING LABELS
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application January 18, 1950, Serial No. 139,271
29 Claims. (Cl. 216—55)



2. In a labeling machine, a support for a source of supply of labels coated with thermo-activatable adhesive, means spaced from said source for supporting articles to be labeled, means for successively feeding individual labels from said source and applying such labels to articles at said spaced supporting means, means intermediate said source and support to apply heat directly to the thermo-activatable adhesive coatings on said labels, and means for maintaining the other surfaces of said labels cool during application of such heat.

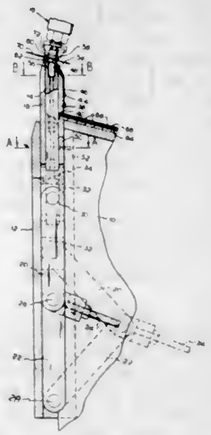
2,613,008
LABELING APPARATUS
Clarence Ouellette, Springfield, Mass., assignor to Wrap-King Corporation, West Springfield, Mass., a corporation of Massachusetts
Application October 31, 1950, Serial No. 193,222
3 Claims. (Cl. 216—55)



1. Unitary self-contained apparatus for applying labels adapted for securement to a conveyor for conveying successive objects comprising, rods extending vertically upwardly from said conveyor, a housing slidable up and down on said rods provided with a front wall and having means for moving said housing up and down, a drum shaft extending through and rotatable on a horizontal axis in said front wall having a label receiving and applying drum fixed thereto forwardly of said wall, a vertically extending guide fixed to said wall having a lower end above said drum, a

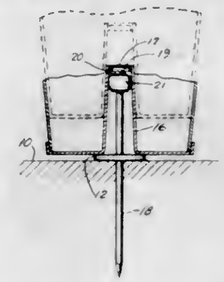
pair of separate vertically extending movable guides and means adjustably connecting said guides to said front wall, said fixed and movable guides cooperating to provide a chute for a vertical stack of horizontally superposed labels with a leading edge of a lowermost label adjacent said drum, a shaft oscillatable in said front wall, a lever fixed on said oscillatable shaft forwardly of said front wall having a free end provided with suction cup for engaging and transferring a lowermost label of a stack therefrom and presenting and releasing a leading edge thereof to said drum, means for rotating said shaft and drum in label applying direction, operative connections between said drum and second-named shafts for oscillating the latter for swinging said arm between label engaging and releasing positions, said drum provided with relatively movable means for engaging a label presented thereto and for releasing the same, a bearing fixed to said front wall in which said drum shaft is journalled having a cam fixed thereto for operating said label engaging means as said label drum rotates, said drum having a surface concentrically disposed relative to its axis of rotation for supporting a label engaged by said movable means, and a heater fixed to said front wall having an inner surface complemental to that of the label supporting drum and closely adjacent thereto for heating a label as it is moved therepast by said drum.

2,613,009
INCLINED UNDERFEED RIVETING MACHINE WITH MAGNETIC ANVIL
Gifford B. Cranor, Jackson, Mich., assignor to Tomkins-Johnson Company, Jackson, Mich., a corporation of Michigan
Application January 10, 1950, Serial No. 137,830
2 Claims. (Cl. 218—2)



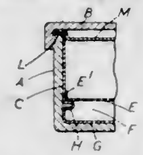
1. In a machine for upsetting rivets and the like, fixed frame structure defining an upper horizontal surface and a front wall downwardly and rearwardly inclined from said surface, said surface supporting a horizontal rivet feed magazine, said frame structure having an elongated guide slot vertically inclined in corresponding relation to said inclined front wall, a rivet feeding ram, means mounting said ram for vertical reciprocation in said slot to feed the rivet against an upsetting die, said ram having a horizontal top surface with an upstanding abutment at the side thereof remote from a side opening in an upstanding wall portion of said frame structure through which said side opening a rivet is capable of being fed from said magazine onto said ram surface, a recess in said ram surface, and a permanent magnet mounted in said recess with its upper end flush with said ram surface, said abutment serving fully to position a rivet upon said ram surface.

2,613,010
GARBAGE CAN AND SUPPORT THEREFOR
Darrell R. Atkinson, Colorado Springs, Colo.
Application December 31, 1951, Serial No. 264,307
3 Claims. (Cl. 220—18)



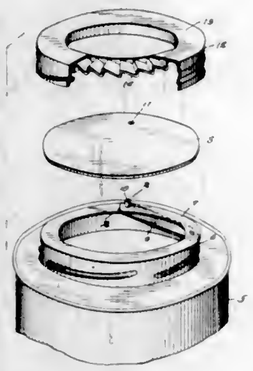
1. A garbage can and support therefor comprising in combination, a can having a central opening in its bottom, an upwardly tapering tube secured to the bottom in concentric relation with the hole therein, the upper end of the tube being closed, a support pin having a flange intermediate its ends, the lower end being tapered to facilitate driving it into the ground, the other end projecting upwardly into the tube, and a ring of rubber or the like surrounding the pin near its upper end, the length of the pin above the flange being slightly less than the distance from the bottom of the can to the top of the tube so that the can will rest on the flange and be held against tilting by that portion of the pin in the tube, the diameter of the ring being substantially equal to the inside diameter of the tube at the point where the ring is located whereby tilting movement of the can will be limited relative to the pin.

2,613,011
CONTAINER FOR CLEANSING LIQUIDS
Rosemary Foreshaw-Smith, London, England
Application September 2, 1950, Serial No. 183,059
In Great Britain September 2, 1949
2 Claims. (Cl. 220—22)



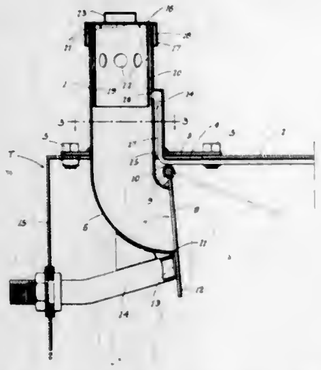
2. A container for complexion milk, skin lotions or cleansing liquids and application pads comprising a shallow box, an open topped casing fitting within said box and flanged to rest on the edge of the box, said casing formed with an annular inwardly projecting rib, a removable perforated false bottom affording a space between it and the bottom of the casing and supported by said rib, said false bottom formed with an upturned rim fitting closely to the wall of the casing, a protecting lid supported on the flange of the casing, and a screw top lid for the box serving to hold the protecting lid in position on the casing.

2,613,012
SAFETY SEALING DEVICE FOR REFILLABLE CONTAINERS
Marvel E. Taylor and Henry F. Miller, North Little Rock, Ark.
Application July 2, 1951, Serial No. 234,726
2 Claims. (Cl. 220—27)



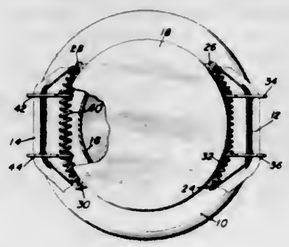
1. In a refillable container, a body, a threaded neck forming a part of the body, an annular flange extending inwardly from the top edge of the neck, a spring pressed lock pin extending upwardly through said flange, a perishable seal disc positioned on said flange closing the container, said seal disc having an opening through which the locking pin extends, a removable closure ring rotatable in a clockwise direction mounted on the neck in contact with said disc, ratchet teeth on the closure ring cooperating with said pin normally preventing reverse rotation of said closure ring to remove said ring and seal disc, and said pin adapted to be moved out of engagement with said ratchet teeth, releasing said ring for reverse rotation, upon mutilation of said disc.

2,613,013
FILLER NECK AND AIR VENT UNIT FOR WATER TANKS
Percy E. Van Pelt, Oakdale, Calif.
Application December 17, 1949, Serial No. 133,629
2 Claims. (Cl. 220—44)



2. A filler neck and air vent unit for a water tank, comprising an upstanding filler neck mounted in connection with the tank top and extending above and below the same, the lower end portion of the filler neck being in the form of an elbow opening substantially horizontally in the tank, a flap-valve hinged above said elbow opening and normally depending in closure relation thereto, an air vent passageway communicating between the tank at the top adjacent but independent of the filler neck and the latter at a point above said tank top, and a vented cap removably disposed on the upper end of the filler neck; said cap including a baffle sleeve depending into the filler neck in clearance relation and the sleeve terminating at its lower end below said point.

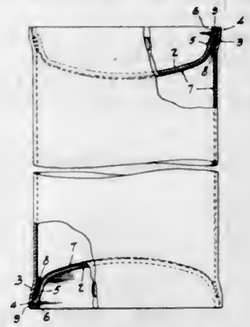
2,613,014
MILK CAN COVER
Richard B. Walsh, Spooner, Wis., and Robert J. Sims, St. Paul, Minn.
Application May 26, 1950, Serial No. 164,438
1 Claim. (Cl. 220—55)



In a milk can which has a pair of handles and a neck, a closure comprising a plate disposed on said neck and having a skirt depending from the periphery of said plate, means carried by said plate and releasably connected with the handles for holding said plate in place on said neck, said means comprising a first pair of brackets spaced from each other and secured to said skirt, a second pair of brackets spaced from each other and secured to said skirt, a first spring secured at its ends to said first pair of brackets, a second spring secured at its ends to said second pair of brackets, both of said springs extending peripherally of said skirt, hooks extending generally axially of the milk can and pivotally secured at their upper ends to said springs intermediate the ends of said springs, and said hooks having V-shaped members at their opposite ends, one side of which releasably engages the lower surface of the handles of the can.

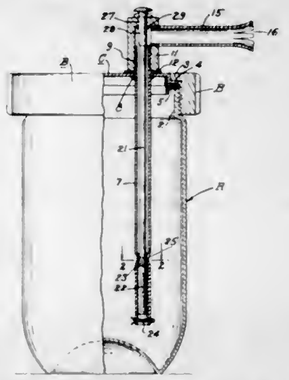
2,613,015
WELDED TANK CONSTRUCTION
Leonard Mathew Keating, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application March 29, 1948, Serial No. 17,667
5 Claims. (Cl. 220—64)

5. A hot water tank comprising a generally cylindrical shell and an end head therefor, said shell having an end section flared outwardly and terminating in a cylindrical end flange of substantial length and said head having a flange fitting within the end of the shell and flared and formed cylindrically at the outer end complementary to the end section of the shell, a ceramic enamel lining extending on the inside of the shell and head of the tank to a line leaving the cylindrical ends of the shell and head free for welding, a non-metallic corrosion resistant gasket disposed between the shell and head at the overlapping sections thereof with said cylindrical ends providing for relative axial adjustment of the shell and head to squeeze the gasket therebetween under a radial pressure to seal the approach to the joint, and an electric resistance weld joining



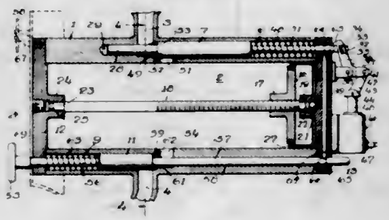
the shell and head ends together around the tank.

2,613,016
DISPENSER FOR VISCOUS LIQUIDS AND VALVE THEREFOR
Jerry Jarrett and Hal C. Berggren, San Francisco, Calif., assignors to The National Dispenser Corp., San Francisco, Calif., a corporation of California
Application January 14, 1949, Serial No. 70,944
3 Claims. (Cl. 222—394)



1. A dispenser for viscous liquids comprising a container arranged to carry a viscous liquid under pressure, a tube arranged interiorly of said container, the bottom end of said tube being disposed adjacent the bottom of said container and the other end of said tube projected outwardly and above the top of said container, a piston disposed longitudinally and slidably within said tube and spaced concentrically therefrom, a plug carried by the bottom end of said piston and positioned adjacent the bottom of said tube, a reduced diameter portion formed in said tube near the bottom thereof, a portion of said plug and said reduced diameter portion forming a valve, the portion of said tube above said reduced diameter portion forming a first aeration chamber, a hollow cap forming a second aeration chamber attached to the top of said tube and positioned above the top of said container, a dispensing pipe in flow communication with the interior of said cap member and attached thereto, and a manually accessible control member carried slidably by said cap and arranged to coact with the top of said piston whereby said piston may be moved slidably and longitudinally within said tube to open said valve, said valve being biased to closed position by said viscous liquid under pressure, said valve being positioned remote from said dispensing pipe to provide an elongated first aeration chamber for viscous liquids passing through said tube prior to entrance into said second aeration chamber.

2,613,017
DISPENSING DEVICE AND VALVE ASSEMBLY THEREFOR
Alfred T. Phillips, Chicago, Ill., assignor to National Packaging Machinery Repair Co., Chicago, Ill., a corporation of Illinois
Application September 8, 1949, Serial No. 114,643
4 Claims. (Cl. 222—440)

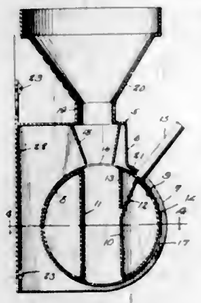


1. A liquid dispensing device and valve assembly therefor comprising a housing having a chamber of predetermined capacity for dispensing a measured quantity of liquid and spaced bores in the housing extending longitudinally thereof, an inlet controlling passage to the chamber and an outlet controlling discharge therefrom, a reciprocatory valve member in one bore for controlling the passage through the inlet and a reciprocatory valve member in the other bore for controlling discharge from the outlet and each of said valve members being spring-biased to closed position and located outside the liquid chamber, means operated upon insertion of a coin for moving the valve member controlling the inlet to open position to permit the passage through the inlet and into the chamber of a quantity of liquid to fill said chamber, and manually operated means operable only when the inlet valve member is moved to and locked in closed position for moving the valve member controlling the outlet to open position to permit discharge and emptying of the chamber.

2,613,018
DEVICE FOR DISPENSING GRANULAR MATERIALS IN PREDETERMINED BULK QUANTITIES, HAVING A MEASURING COMPARTMENT AND A VALVE
Charles E. Truitt, Springfield, Ill.
Application August 13, 1951, Serial No. 241,607
1 Claim. (Cl. 222—452)

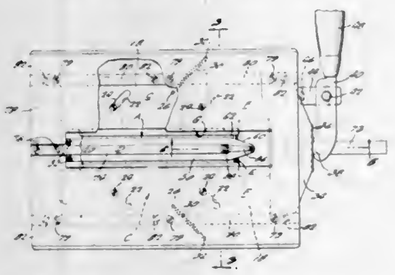
In a device for measuring and dispensing granular material, a body including an upper hopper and a lower section having an open-ended measuring compartment mounted therein in spaced relation with the wall of the lower section, a spout within said lower section located adjacent to the lower end of the hopper, through which material is directed from the hopper to the measuring compartment, a rotary valve operating in the space between the wall of the lower section and measuring compartment, said valve having an inlet opening and an outlet opening adapted to align with the open ends of the measuring compartment, controlling the passage of material to and from the measuring compartment, and a passageway within the housing communi-

cating with the measuring compartment through which the granular material is directed from said



space between the wall of the lower section and measuring compartment, into the measuring compartment.

2,613,019
BOX PLEATING MACHINE
Jacob Silverman, Brooklyn, N. Y.
Application June 30, 1950, Serial No. 171,421
30 Claims. (Cl. 223—30)



1. A pleating machine comprising a frame, a forming plate comprising an operative portion and a mounting portion at one end of said operative portion and secured to said frame, an upper pressure plate secured to said frame at a point to one side of the operative portion of said forming plate and overlying but vertically spaced from said operative portion of said forming plate, said forming plate being relatively movable toward and away from said upper pressure plate, a lower pressure plate on said frame below said forming plate, folding members mounted on said frame so as to be movable between a retracted position in which their inner edges are laterally spaced from the outer edges of the operative portion of said forming plate and an operative position in which their inner edges are moved toward one another so that said folding members are interposed between the operative portion of said forming plate and one of said pressure plates, means operatively connected to said folding members for moving them between operative and retracted positions, and means operatively connected to at least one of said pressure plates for causing relative motion of said pressure plates toward one another so as to press therebetween a fabric sheet folded around said forming plate.

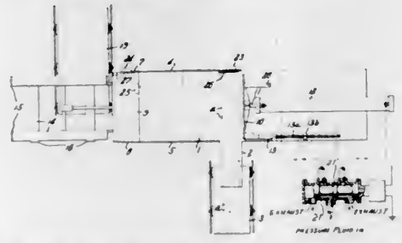
2,613,020
BOAT CARRIER FOR AUTOMOBILES
Donald N. Berry, Denver, Colo.
Application June 9, 1950, Serial No. 167,180
4 Claims. (Cl. 224—42.1)

1. A boat carrier for automobiles of the type having a rain gutter, comprising: two cross beams; a bracket member beneath each extremity of each cross beam; clamping straps securing said bracket members to said cross beams, each bracket member extending outwardly and downwardly from its clamping strap beneath an extremity of the cross beam; a pad member below the lower extremity of each angle bracket; hinge means pivoting each pad member



to the adjacent angle bracket; an angle clip extending upwardly from each pad member; a clamp screw extending through each angle clip; and a hook member mounted on each clamp screw and adapted to engage said rain gutter, said brackets being longitudinally adjustable along said cross beams to accommodate automobiles of various widths.

2,613,021
CARTON PACKING APPARATUS
Leslie H. Bowes, Wadsworth, Ohio, assignor, by mesne assignments, to Morton Salt Company, Chicago, Ill., a corporation of Illinois
Application March 24, 1947, Serial No. 736,739
11 Claims. (Cl. 226—14)

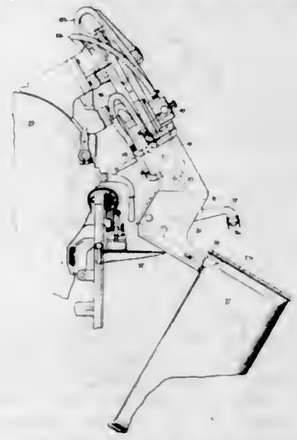


8. In carton packing apparatus, a feed platform, means for delivering package units to said platform transversely thereof and determining successive series of predetermined numbers of said units and for arranging said series in predetermined multiples constituting a group and moving the resultant group of units on said platform lengthwise thereof, said means comprising a feed conveyor for delivering successive series of units to said platform and control means actuated by the leading unit of a series delivered to said platform and pusher means reciprocable lengthwise of said platform, and control means actuated by the units of said group on said platform after their consolidation into a group effective for causing a reciprocative movement of said pusher means sufficient to insert said group of units into a container positioned to receive it.

2,613,022
APPARATUS FOR SEALING VALVED BAGS
William R. Peterson, Oswego, and Carl H. Hartman, New Rochelle, N. Y., assignors to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application March 20, 1947, Serial No. 735,866
19 Claims. (Cl. 226—48)

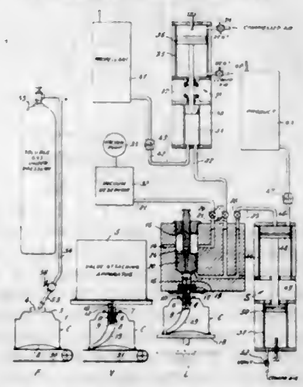
19. In apparatus for filling valve bags and sealing the valves thereof, such valves being of a type

bearing heat sensitive adhesive on opposed wall portions which are adapted to be brought together and adhered to seal the valve, the combination comprising: a valve bag filling spout, means adjacent and connected to said spout for urging material therethrough, bag chair means pivotally associated with said apparatus and normally positioned for holding a bag in filling relation with said spout, the latter then being in the valve of such bag, said chair means being angularly shiftable to another position for supporting a bag with



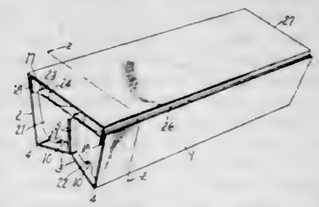
such valve tilted away from said spout, the longitudinal axis of the bag valve being angularly removed from the horizontal in such latter position, and heated clamping means movably mounted on said apparatus adjacent said spout and movable, relative to a bag on said chair means, from an inactive to an active position to clamp together such wall portions of the valve after said bag chair means has been shifted angularly to said other position and a bag thereon is so tilted away from said spout.

2,613,023
METHOD OF FILLING PRESSURETIGHT CONTAINERS WITH A LIQUID PRODUCT AND A VOLATILE PROPELLANT
Irving Reich, Brooklyn, N. Y., assignor to Carter Products, Inc., New York, N. Y., a corporation of Maryland
Application March 11, 1950, Serial No. 149,168
10 Claims. (Cl. 226—100)



1. The method of packaging in a pressure-tight container a composition comprising a liquid product and a volatile propellant in liquid phase which comprises substantially completely displacing air from the container with a gas that is soluble in the composition, introducing the composition into the container under pressure to thereby raise the pressure in the container above atmospheric pressure, and then closing the container, whereby the soluble gas in the container when the composition is introduced is substantially completely dissolved in the composition and the gas pressure in the head space of the container after filling is substantially solely that due to the vapor of the volatile propellant.

2,613,024
COLLAPSIBLE CELLULAR CARTON
Kenneth T. Buttery, Kalamazoo, Mich., assignor to Sutherland Paper Company, Kalamazoo, Mich., a corporation of Michigan
Original application November 1, 1945, Serial No. 626,069. Divided and this application January 22, 1947, Serial No. 723,614
2 Claims. (Cl. 229—28)

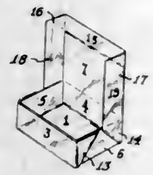


1. In a cellular carton, spaced walls, one of said walls constituting a front wall, a bottom member hingedly joined to said walls, a top member hingedly connected to said walls and having a sealing flap integral therewith secured to the inner side of the front wall, the outer edge of the sealing flap being closely adjacent the upper edge of the front wall whereby the upper edge of the front wall is stiffened, the top member being slitted and scored to provide a plurality of transverse partitions and to provide hinge members therefor connected to said sealing flap, a hinged cover having a closure flap on its front edge adapted to be disposed on the inner side of the reinforced upper edge portion of the front wall, said closure flap having a plurality of tongues on its edge adapted to engage beneath said hinge members when the cover is closed, the front wall and sealing flap secured thereto having a finger opening adjacent one end thereof in opposed relation to the corresponding end of the closure-flap to facilitate forcing said closure flap inwardly and disengagement of the tongues thereof from beneath the hinge members, and facilitating opening of said cover after disengagement of said tongues from said hinge members, said front wall and sealing flap secured thereto fixedly retaining the hinge members against displacement while the closure flap is forced inwardly by a finger in said finger receiving opening and while opening the cover.

2,613,025
PACKAGE FOR FROZEN FOODS AND THE LIKE
William A. Ringler, Wayne, Pa., assignor to The Gardner Board and Carton Co., a corporation of Ohio
Application January 2, 1947, Serial No. 719,889
2 Claims. (Cl. 229—31)

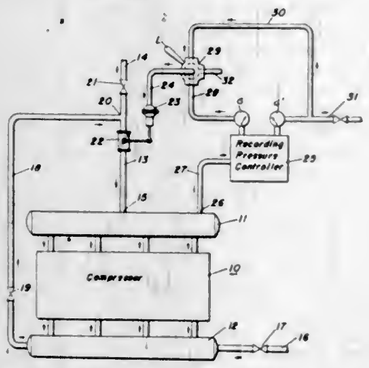
1. In a package structure for the purposes described, a boxboard blank consisting only of a

front wall, a bottom wall, a rear wall, and a top wall in articulation in the order named, and end walls articulated to opposite end edges of said bottom wall, and a sheet of thinner flexible material in adhesive union with said blank, said sheet having a width substantially equal to the combined widths of said bottom wall and said end walls, and having a length somewhat greater than the combined lentghs of said front, bottom, rear and top walls, said sheet being positioned so that three side edges thereof substantially coincide with the outer edges of said front wall and said end walls, so as to provide free areas of sheet



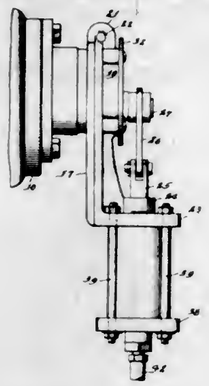
material extending beyond the end edges of said front wall, said rear wall and said top wall, and an additional free area of sheet material extending beyond the free side edge of said top wall, the areas of sheeting extending beyond the ends of said front and rear walls constituting bellows-folding connecting webs serving to connect the otherwise unsecured end edges of the said front, rear and end walls to each other, the areas of sheet material extending beyond the free side edge and the end edges of said top wall constituting a peripheral flange serving to connect the top wall to said front wall and said end walls.

2,613,026
VACUUM PUMP SUCTION CONTROL
Daniel B. Banks, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application November 13, 1948, Serial No. 59,808
5 Claims. (Cl. 230—4)



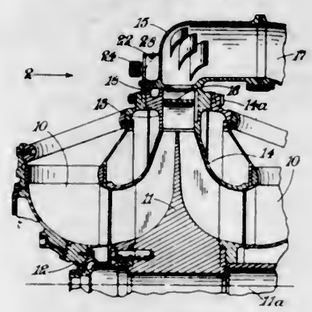
1. A fluid pressure reducing device in combination with a reduced pressure system which includes a compressor having suction and discharge conduits, said suction conduit being connected to said system, said device comprising a valve in said suction conduit positioned between said system and said compressor, an automatically operating pressure controller means for actuating said valve, and a conduit connecting said controller means with said suction conduit at a point between said compressor and said valve so that said valve is actuated in accordance with the pressure in said suction conduit between said compressor and said valve.

2,613,027
AIR COMPRESSOR
Elmer F. Baumgart and George E. Willard, Danville, Ill.
Application November 5, 1948, Serial No. 58,442
1 Claim. (Cl. 230—38)



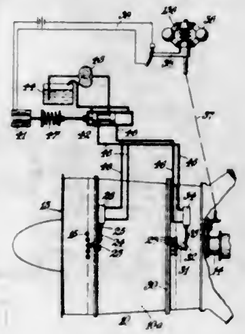
An air compressor comprising an adapter sleeve arranged for detachable mounting on a device in coaxial relation to a splined driving shaft thereof, a frame detachably secured to the sleeve, a pump cylinder having a piston carried by the frame, a hollow crankshaft for telescopically receiving the driving shaft within the sleeve and being inwardly toothed for driven engagement with the driving shaft, the crankshaft being freely insertable within and spaced from the sleeve, and driving connections between the crankshaft and piston including a piston rod slidable in the frame.

2,613,028
AIR COMPRESSOR FOR USE ON AIRCRAFT
Christopher Ainsworth Davis, Barnoldswick, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application March 19, 1947, Serial No. 735,691
In Great Britain January 8, 1946
4 Claims. (Cl. 230—47)



1. A centrifugal compressor for a gas-turbine engine comprising an impeller, a casing structure enclosing the impeller, there being a chamber formed in the casing peripherally of and radially beyond the impeller, a plurality of diffuser blades mounted in the chamber to extend outwards in a direction inclined to the radial direction to have each an inwardly-facing surface and an outwardly-facing surface and to form a plurality of diffuser outlet channels, a closed circumferential passageway formed in said casing adjacent the diffuser blades, there being a plurality of circumferentially-spaced ports in the casing to provide communication between the diffuser channels and the passageway, said ports being arranged to open into the diffuser channels one at the trailing end of each of a plurality of the diffuser blades to abstract the boundary layer from the surfaces of the diffuser blades, the area of each port adjacent the inwardly-facing surface of the associated diffuser blade being greater than adjacent the outwardly-facing surface of said diffuser blade, and an outlet connection from said passageway rigidly supported by the compressor casing.

2,613,029
AXIAL FLOW COMPRESSOR REGULATION
Geoffrey Light Wilde, Coxbench, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application June 1, 1948, Serial No. 30,330
In Great Britain June 4, 1947
11 Claims. (Cl. 230—114)



1. A multi-stage axial flow compressor comprising a high pressure section and a low pressure section, each section comprising a plurality of stages, said compressor further comprising a stator casing; a row of stator blades at the entry to each said section; bearing means supporting the stator blades of each said row in said casing so as to be adjustable in pitch; motor means operative to rotate each row of stator blades in unison but in opposite directions; a power supply for said motor means; and power supply control means, including a device sensitive to the speed of the compressor, automatically to control the power to supply to said motor means to rotate the stator blades of said low pressure section to give an increased swirl in the direction of rotation of the compressor at low compressor speeds and to rotate the stator blades of said high pressure section to give a decreased swirl at low compressor speeds.

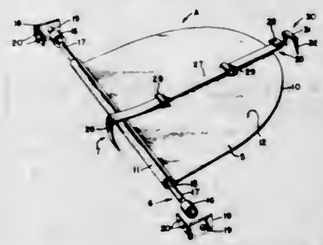
2,613,030
AIR MOVING DEVICE
Raymond C. Troy, Cedar Rapids, Iowa
Application July 1, 1949, Serial No. 102,565
4 Claims. (Cl. 230—258)

1. In a device of the character described for use in conjunction with a vacuum cleaner; a casing, an air turbine therein having an output shaft projecting from one side of the casing, a base member having a cradle-like portion adapted to receive the lower end of the casing, means for securing the casing in said cradle-like portion, hose means connecting the air turbine and the vacuum cleaner, a disc-like drive plate mounted on the output shaft and having radially elongated apertures therein, a detachable mounting plate also having radially elongated apertures therein, latching members having hook-like portions projecting through the apertures in both of



said plates, means for aligning the mounting plate with the drive plate, means biasing said latching members into latching engagement with the drive plate, and fan blades secured to the mounting plate.

2,613,031
MAIL DELIVERY SIGNAL FOR MAILBOXES
James J. Joyce, Portsmouth, N. H.
Application April 4, 1951, Serial No. 219,209
6 Claims. (Cl. 232—35)

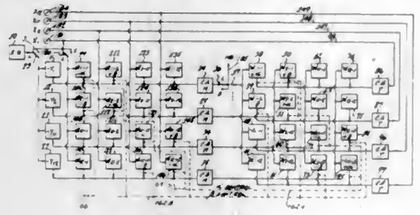


1. A mail delivery signal for a mailbox including a signal element provided with a body having an edge provided with a sleeve, an elongated reciprocable member of springy material, slidable over a portion of said element including a portion of the outer face of said sleeve and sprung against said sleeve, said member having an end portion extending beyond said element adjacent said sleeve, with said end portion provided with a fingerhold, the other end portion of said member having a hook, a keeper for said hook, disposed in the path of travel of said hook and carried by said mailbox, a bearing for said member and carried by said element, and means for pivotally mounting said signal upon said mailbox including a shaft extending through said sleeve.

2,613,032
COMPUTING DEVICE
Robert Serrell, Princeton, and Edwin A. Goldberg, Princeton Junction, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application May 7, 1949, Serial No. 92,032
6 Claims. (Cl. 235—61)

4. An equation solver including original and transposed matrices each comprising a plurality

of interconnected elements each of which elements includes a first and second voltage divider of the potentiometer type, and means including switches settable to one position for interconnect-



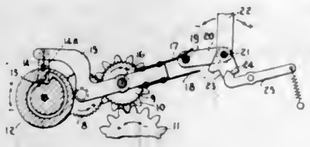
ing said matrices to solve linear simultaneous equations and to another position for interconnecting said matrices to solve secular equations and polynomials.

2,613,033

REGISTER TRANSFER MECHANISM

Frederick W. Pfieger, Paulinskill Lake, Newton, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application August 18, 1951, Serial No. 242,447
5 Claims. (Cl. 235—136)



1. In a register comprising numeral wheels having carry mechanism of the crawl type between said wheels, and reversible differential actuators for said wheels; the combination with a lower and a higher order wheel, of a cam having oppositely disposed faces and rotatable with said lower order wheel, a cam follower disposed between said cam faces, drive means operable by said cam follower to counteract the carry movement transmitted to said higher order wheel upon rotation of said lower order wheel in either direction, and upon rotation of said lower order wheel from 0 to 9 or from 9 to 0 registering position to rotate said higher order wheel in the direction of and a distance equal to said counteracted movement.

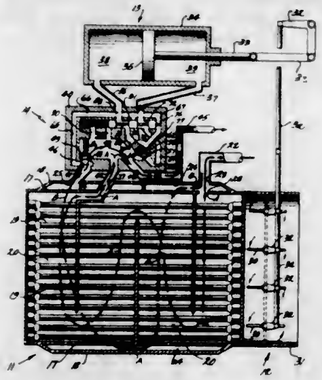
2,613,034

THERMOSTATIC OIL COOLER CONTROL WITH SURGE PREVENTING VALVE

Carl A. Weise, Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif.

Application December 14, 1942, Serial No. 469,013
8 Claims. (Cl. 236—35.3)

1. In a system for cooling the liquid of a liquid stream under pressure, the combination of: a cooler having a liquid inlet and a liquid outlet and a liquid passage connecting the inlet and outlet and cooled by an airstream; shutter means for the airstream; means for adjusting the shutter means between limiting positions of maximum and minimum closure; a double acting hydraulic motor for operating said adjusting means in either direction; first and second conduit means flow connected to said motor for operating it in opposite directions to open and close said shutter means respectively; third conduit means connected to said liquid stream upstream from said inlet; fourth conduit means connected to said liquid stream downstream from said outlet; a reversibly movable valve for selectively either flow connecting said first and third conduits and flow connecting said second and fourth conduits of flow connecting said first and fourth conduits and said second and third conduits; a thermostat in the liquid stream downstream from said outlet for operating said valve to connect said third and second conduits and to connect said first and fourth conduits in response to subnormal liquid temperatures and to connect said first and third conduits and said second and fourth conduits in response to supernormal liquid temperatures; a piston valve having first and second port passages interposed in and normally open across said first and second



conduits respectively; a fifth conduit means connecting said liquid stream upstream from said inlet to said second conduit, said piston valve normally closing said fifth conduit and being movable to dispose said second port passage to open said fifth conduit; a sixth conduit means connecting said liquid stream upstream from said inlet with a chamber, having exposed thereto a working face at one end of said piston valve for moving said piston valve in one direction; a seventh conduit connecting the bore of said piston valve to said fourth conduit; and a spring for moving said piston valve in the other direction, said movement of said piston valve from normal position in said one direction closing said first and second conduits across said port passages, disposing said second port passage to open said fifth conduit and disposing said first port passage to connect said first conduit to said seventh conduit.

2,613,035

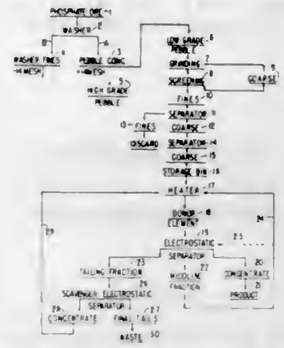
BENEFICIATION OF NONMETALLIC MINERALS

James E. Lawver, Lakeland, Fla., assignor to International Minerals & Chemical Corporation, a corporation of New York

Application February 8, 1950, Serial No. 142,982
24 Claims. (Cl. 241—24)

1. A process for beneficiating an ore containing nonmetallic, nonsilicate minerals, which comprises comminuting the mineral-containing ore sufficiently to substantially liberate the desired components from the included gangue, drying said comminuted ore, heating said substantially dry ore to between about 150° and about 550° F., contacting said ore, while heated within

the aforesaid temperature range, with a source of electrons, subjecting said contacted ore as



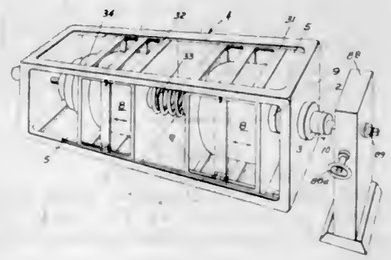
free-falling bodies to an electrostatic field, and separating mineral from gangue material.

2,613,036

VIBRATORY AND ROTARY BALL MILL

Richard S. Robinson, Gloucester, Mass., assignor, by mesne assignments, to Vibro Dynamic Engineering, Inc., Boston, Mass., a corporation of Massachusetts

Application January 11, 1947, Serial No. 721,507
4 Claims. (Cl. 241—175)



1. In a comminuting machine of the class described, a container for the material to be comminuted and loose pulverizing elements, said container being supported for rotary and vibratory movement, a vibratile body supported for compensatory vibratory movement with the container, resilient means mediate said container and said body, said means being disposed in the plane of the axis of rotation of the container and the axis of the body, means for rotating said container and means for inducing vibratory movement of said container and said body in said plane at natural resonant vibratory frequency.

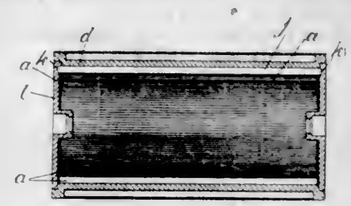
2,613,037

MACHINE FOR GRINDING OR REFINING PAINT, CELLULOSE, CHOCOLATE, AND SIMILAR SUBSTANCES

John McIntyre, Portobello, Midlothian, Scotland

Application April 29, 1949, Serial No. 90,382
In Great Britain May 10, 1948
2 Claims. (Cl. 241—299)

1. In a machine of the type set forth a cylinder lining formed solely of parallel grinding bars, the two sides of each grinding bar bearing hard on the grinding bars on each side thereof throughout their length so that such close contact of grinding bar against grinding bar gives the maximum grinding surface to the liner and which grinding bars are secured together by the fusion



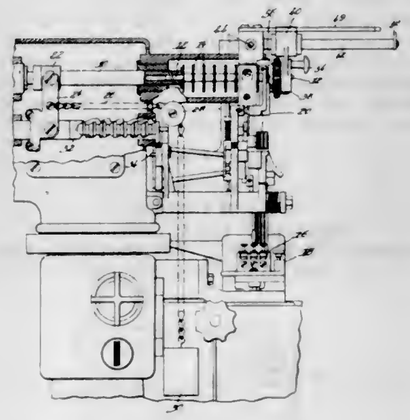
of metal so that they can be fitted in the cylinder and removed therefrom, when worn, as a complete unit.

2,613,038

BOBBIN WINDING MACHINE

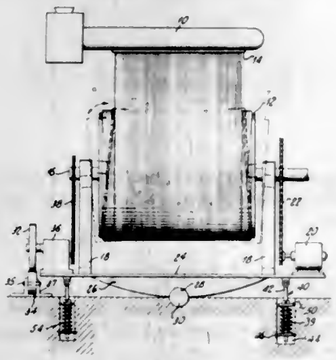
Roland Heeley, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application September 2, 1949, Serial No. 113,799
1 Claim. (Cl. 242—23)



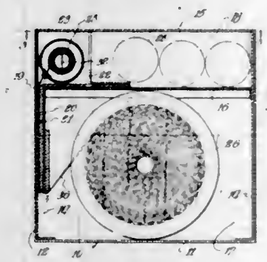
A bobbin winding machine having a rotatable and reciprocable spindle, a fixed bearing for the spindle, a removable mandrel secured at one end to the end of the spindle projecting from the bearing to support a plurality of bobbins in end-to-end relation, a thread guide acting to direct thread to a bobbin on the spindle, and step-by-step mechanism for actuating the spindle lengthwise through its bearing a distance between successive bobbins after each bobbin is filled with thread, in combination with a bearing for steadying the mandrel at the end thereof opposite the spindle, a stationary guide rod on which the steadying bearing is mounted for swinging movement to clear the mandrel in preparation for its removal from the spindle and a separate bar engaged with the bearing and arranged parallel to the rod to prevent swinging movement of the bearing but terminating short of the end of the rod to enable the bearing to swing on the rod clear of the end of the mandrel, and friction means on the rod to hold the bearing clear of the mandrel, comprising an arcuate member on the rod and a spring clip on the bearing arranged to engage the arcuate member when the bearing is disengaged from the mandrel.

2,613,039
APPARATUS FOR DRAWING FILAMENTS
Harry E. Holcomb, Stratford, Conn., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application October 22, 1947, Serial No. 781,362
5 Claims. (Cl. 242—54)



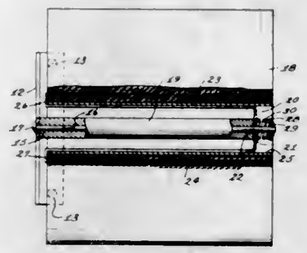
1. In a device for drawing a multiplicity of filaments lying in substantially a single plane and winding them on a drum to form successive layers, a shaft supporting said drum, first means for rotating the shaft, and second means for rocking the shaft in predetermined, timed relationship to the rotation of the shaft to wind the filaments on the drum with filaments of successive layers in intercrossed relationship.

2,613,040
FILM HOLDER
Emanuel J. Lewis, Chicago, Ill.
Application March 3, 1948, Serial No. 12,850
5 Claims. (Cl. 242—55)



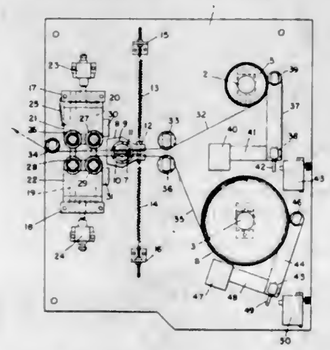
1. A merchandising and storage package for wound bulk photographic film which is to be threaded into magazines without exposure to light, said package comprising a box housing the bulk film, partition means in said box to confine said film and shield the same from light and dividing said box into two adjoining upper compartments one of which constitutes a magazine-loading compartment and includes a sidewall of the box, a movable tab portion in said sidewall providing an access opening into said loading compartment for manipulation of a magazine therein, means in said box defining a lightproof film-threading passage for leading the bulk film past said partition means into said magazine compartment, cover means for said box to fit over said tab and close said magazine compartment, at least, and a magazine-winding device insertible into said magazine compartment for engagement with a magazine therein.

2,613,041
PAPER ROLL HOLDER
Lonnie O. Cantrell, Whittier, Calif.
Application April 3, 1951, Serial No. 219,029
3 Claims. (Cl. 242—55.2)



1. A paper roll holder comprising an angle bracket having one leg apertured for attachment to a wall and its other leg provided with an aperture adjacent the distal end thereof, a pin received in the aperture in said other leg and having at one end a head bearing against one side of said other leg, a sleeve receiving said pin and bearing at one end against the other side of said other leg, a spring structure including an apertured intermediate portion receiving said pin and bearing against the other end of said sleeve and arms spaced from and extending along said sleeve from respectively opposite sides of said intermediate portion, an abutment washer secured on said pin at the other end of the latter, and a compression spring surrounding said pin between said abutment washer and the intermediate portion of said spring structure compressing said sleeve between the intermediate portion of said spring structure and said other bracket leg to provide a braking action on said spring structure.

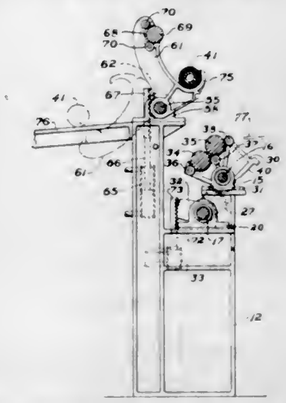
2,613,042
SPLICING DEVICE
William M. Dice, Jr., Willoughby, Ohio, assignor, by mesne assignments, to The Ohio Rubber Company, Willoughby, Ohio, a corporation of Delaware
Application July 13, 1948, Serial No. 38,451
5 Claims. (Cl. 242—58)



2. Means operative to splice two adhesive webs together comprising two pneumatic piston-cylinder assemblies having their respective pistons axially opposed, a pair of rollers carried by each said pistons adapted to be brought into engagement with the opposed pair thereof, and a shears adjacent thereto adapted to sever a travelling web in timed relation to actuation of said piston-cylinder assemblies whereby the leading end portion of a web placed between said opposed rollers may be adhered to the trailing end portion of a web travelling therebetween after severance by said shears.

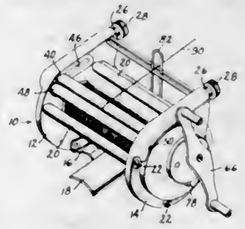
5. A rotary shears selectively operative to sever one of two webs passing therethrough comprising a fixed intermediate blade, a rockable mount, two spaced blades carried by said mount to either side of said fixed blade respectively and adapted alternately to cooperate therewith in shearing relation when said mount is rocked in opposite directions, whereby such two webs may respectively pass between different rockable blades and said fixed blade, and means selectively operable to rock said mount in opposite directions.

2,613,043
APPARATUS FOR WINDING SHEET MATERIAL ABOUT CYLINDRICAL BODIES
Waldemar D. Kmentt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 21, 1948, Serial No. 22,423
4 Claims. (Cl. 242—66)



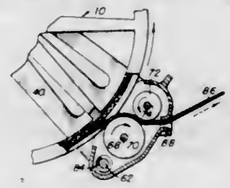
1. Apparatus for winding sheet material about a body, said apparatus comprising means for supporting the body and wrapping sheet material about it, means for pressing the body against said supporting means, a conveyor, and means on said pressing means comprising a receiving element movable simultaneous therewith for transferring the body from said supporting means to said conveyor.

2,613,044
FISHING REEL
Joseph J. Zetts, Gaithersburg, Md.
Application June 17, 1948, Serial No. 33,488
8 Claims. (Cl. 242—84.4)



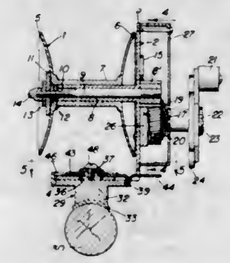
1. A fishing reel having a frame, an attaching flange extending forwardly from said frame, a line spool journalled in said frame, a feed roller rotatably interconnected with said spool, a presser member biased towards said feed roller to form a bight for delivering line upwardly and rearwardly from said frame, and a guide member beyond said bight for delivering line forwardly from said frame.

2,613,045
FISHING REEL
Dwayne A. Kester, Mansfield, Wash.
Application July 15, 1949, Serial No. 104,834
2 Claims. (Cl. 242—84.5)



1. A fishing reel comprising a rotatable line holder, a frame attached to the line holder and constituting a means for attaching the holder to a pole, a casing pivotally mounted on said frame, a guide sleeve carried by said casing, a line wound on said holder and extending through said guide sleeve, a pair of rollers mounted within said casing for rotation, said rollers being spaced to receive said line and adapted to rotate as the line is pulled through the guide sleeve, means for holding the casing in a selected pivoted position, and means for locking the casing in a selected pivoted position, said means for holding said casing in a selected pivoted position including a supporting axle for one of said rollers having an outwardly projecting end portion, said frame having a plurality of recesses therein for selectively receiving the outwardly projecting end portion of said axle.

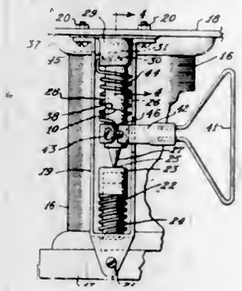
2,613,046
FISHING REEL
Benjiman F. Redding, Monterey Park, Calif.
Application June 30, 1950, Serial No. 171,310
2 Claims. (Cl. 242—84.5)



1. A casting reel for mounting on a fishing pole comprising a bracket plate having a base flange joined thereto at a right angle with respect to the plane of the plate, said base flange being provided with an aperture at its juncture with said plate, a reel mounted on said plate to extend over said flange, a circular base plate attachable to said pole and provided with an arcuate edge flange at one side thereof and an edge notch opposite said arcuate flange, a pivot member securing said base flange on said base plate for rotation in opposite directions to correspondingly rotate said bracket plate, said base

flange engaging opposite ends of said arcuate flange to limit rotation of said base flange and bracket plate in opposite directions, and a resilient latch tongue for snap action engagement with said notch to latch said base flange and bracket plate to said base plate in one limit of rotation of said bracket plate, said tongue overlying said base flange with one end rotatably mounted on said pivot and its other end extending outwardly through said aperture for rotation of the tongue with said base flange and bracket plate into and out of registration with said notch and for manipulation at said other end thereof to disengage said tongue from said notch.

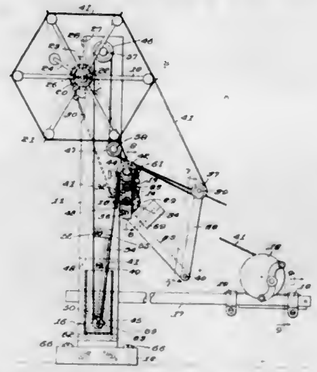
2,613,047
ANTIBACKLASH FISHING DEVICE
Wilbur A. Kelso, Cincinnati, Ohio
Application April 25, 1947, Serial No. 743,984
3 Claims. (Cl. 242—84.5)



1. As an article of manufacture, a self-contained anti-backlash device attachable to a conventional fishing reel, comprising a frame having attaching elements at each end whereby it can be attached to the two side walls of a fishing reel in a position within the lateral confines of said reel, a sleeve fixedly mounted in said frame, a shaft rockably mounted in said sleeve, a shoulder on said shaft, the mutually opposed surfaces of said sleeve and shoulder being of helical conformation whereby rocking motion of said shaft produces axial motion of said shaft, a brake shoe associated with said shaft in a position to bear against a rotating part of said reel in one position of said shaft, and line contacting means secured to said shaft to rock the same under the influence of tension on said line to move said shaft axially to another position in which said brake shoe clears said rotating part of said reel.

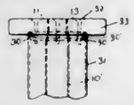
2,613,048
FISHING LINE OILING, GREASING, AND DRYING REEL
James K. McKelvey, Massillon, Ohio
Application August 31, 1949, Serial No. 113,447
1 Claim. (Cl. 242—104)

In an apparatus for handling a fishing line, a horizontally disposed base, a vertically disposed upright extending upwardly from said base and secured thereto, a first reel rotatably supported by said upright, a shaft supporting said reel on said upright, a block arranged contiguous to said upright and connected to said upright, a horizontally disposed bar extending from said block, a level winder including a carriage movably mounted on said bar, a screw member rotatably connected to said block for actuating said carriage, a horizontally disposed rod arranged above said base, means for detachably mounting a second reel on said rod said first reel including a hub mounted on said shaft, a plurality of arms extending radially from said hub, a crank connected to an end of said shaft, a ratchet wheel connected to said first reel, a ratchet pivotally connected to said upright and mounted for movement into and out of engagement with said ratchet wheel, belt and pulley means connecting said shaft to said screw member, a link connecting said screw member and bar together, a body mem-



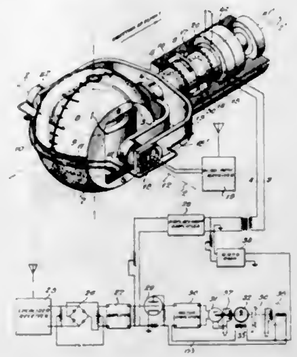
ber pivotally connected to said carriage and depending downwardly therefrom, an arm extending from said body member, an idler pulley supported by said last named arm, a plate spaced from said upright and clamping said rod to said upright, a pair of pulleys rotatably supported by said upright, a pair of spaced pulleys rotatably connected to said carriage, and a pulley connected to said block, said pulleys and reels having the fishing line trained thereover.

2,613,049
SPOOL WITH REMOVABLE HEAD
John B. Hawley, Sharon Center, Ohio, assignor to Akron Spool & Manufacturing Co., a corporation of Ohio
Application September 19, 1947, Serial No. 774,944
2 Claims. (Cl. 242—124)



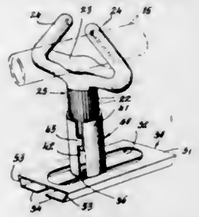
1. A spool having a cylindrical barrel which is a section of tubing and having heads at each end against which rest the ends of the barrel, a tubular spindle guide located axially of the spool and having end areas reduced in diameter which extend through said heads to provide bearings for said spindle, shoulders formed on said guide at the inner ends of each reduced area, each of said heads engaging at least a portion of one of said shoulders, a centrally apertured cup welded in each end of said barrel and having an outer peripheral flange that extends toward the adjacent end of the barrel with the outer edge of each flange being substantially flush with the adjacent edge of the barrel, said spindle guide passing through said central apertures in said cups without being joined thereto, said heads and said cups being provided with aligned openings, and threaded bolts extending through the latter openings into threaded engagement with the adjacent cup, to hold the heads of the spool to the barrel and prevent rotation of the barrel relative to either head.

2,613,050
BLIND LANDING INDICATOR AND CONTROLLER FOR AIRCRAFT
Orland E. Esval, Huntington, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application February 5, 1947, Serial No. 726,605
18 Claims. (Cl. 244—77)



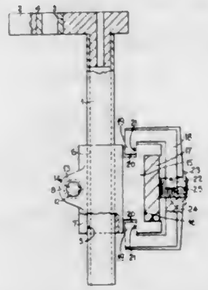
1. In a radio blind landing indicator for aircraft having a glide path and a localizer receiver, a movable physical index, an attitude gyroscope showing by its position relative to said index both pitch and bank, means for altering the position of said index in pitch from said glide path receiver and means for governing the tilt thereof in bank from said localizer receiver, whereby a change of attitude is indicated when the craft is off its radio course in azimuth or elevation, such as to indicate that the craft should be turned toward its radio course.

2,613,051
MOUNTING MEANS FOR TUBULAR MEMBERS
Joseph Baum, New York, N. Y.
Application December 23, 1947, Serial No. 793,443
1 Claim. (Cl. 248—50)



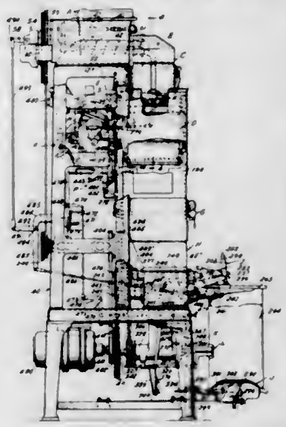
A mounting for elongated tubes comprising, in combination, a box shaped bracket having a pair of parallel walls; means on one of said walls adapted to interlock the bracket to a supporting plate; an elongated slot in the opposite wall; a substantially cylindrical socket having a pair of spring fingers projecting radially in opposite directions from one end, said socket being interlocked with said bracket by inserting said fingers in the slot and turning the socket so that said fingers extend transversely of the slot and engage such opposite wall; a tube mounting post having a substantially cylindrical shank receivable in said socket; longitudinal fluting on said shank; and means on said socket effective to engage said fluting to prevent relative rotation of said post and socket.

2,613,052
DEVICE FOR THE ATTACHMENT OF LAMPS TO MOTOR VEHICLES
Fred McDuff Sellars, Rochdale, England
Application January 5, 1950, Serial No. 136,870
In Great Britain February 3, 1949
2 Claims. (Cl. 248—214)



1. A device for the attachment of a lamp to a bar of a power propelled vehicle, comprising a jaw of channel section, a lug on the said jaw and having a hole, a pillar slidable and rotatable in the said hole, a second, separate jaw of channel section, inwardly directed flanges on the second jaw for engagement with the back of the first named jaw, a boss on the second jaw, the second jaw and boss having a screwthreaded hole, a clamping screw engaging the screwthreaded hole for clamping the engaged jaws to the bar, and a screw on the lug for fixing the pillar to the lug, the clamping screw and last named screw having tightening key holes of the same size.

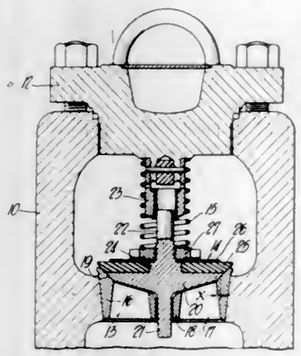
2,613,053
BAG FILLING MACHINE
Neill E. Dorrington, John A. Dyker, and William R. Peterson, Oswego, N. Y., assignors to St. Regis Paper Company, New York, N. Y., a corporation of New York
Application August 23, 1945, Serial No. 612,248
13 Claims. (Cl. 249—60)



1. In bag-filling apparatus, a filling spout, a clamp movable from open position to closed position to secure a bag to said filling spout, weighing mechanism for periodically weighing charges of material, means for delivering material to said weighing mechanism, control means operatively interconnected to said weighing mechanism, operative in response to weighing movement thereof and normally operable to cause delivery of a

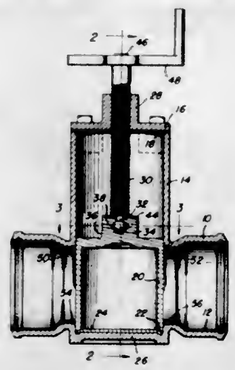
weighed charge of material from said weighing mechanism to said filling spout, an interrupter device operable in response to movement of said clamp to the open position for interrupting the operative interconnection of said weighing mechanism and said control means for preventing operation of said control means when said clamp is in open position, and means controlled by said interrupter device to interrupt the delivery of material to said weighing mechanism when the clamp is open at the end of a weighing cycle.

2,613,054
PUMP VALVE
August R. Maier, Dallas, Tex., assignor to United States Steel Company, a corporation of New Jersey
Application July 8, 1948, Serial No. 37,629
1 Claim. (Cl. 251—27)



In a high pressure pump valve, a body, a seat member fixed in said body, and a disk supported for reciprocable movement in said body, said seat member having an upwardly directed flared machined circumferential face and including central ribs having upwardly directed unmachined faces, said unmachined faces being at a smaller angle from the horizontal than said circumferential face, said disk including a metal section having a downwardly directed flared machined circumferential face and an unmachined bottom face in its medial portion, the unmachined face of said disk section being spaced closely above the unmachined faces of said ribs, a rubber section superposed on said metal section and having a downwardly directed flared circumferential face forming a continuation of that on said metal section, the angle of flare of the circumferential faces on said disk sections being complementary to that of the circumferential face of said seat sections so that these faces can engage for closing the valve, the upper face of said metal section having a central shoulder and a screw-threaded stem upstanding from said shoulder, said rubber section having upper and lower faces which are flat throughout and being received around said shoulder, a retaining plate having a flat underface which bears directly against the upper face of said rubber section and said shoulder, and a nut threadedly engaged with said stem and bearing against the upper face of said retaining plate, the projection of the circumference of said retaining plate downwardly lying approximately midway of the flared face of said metal section.

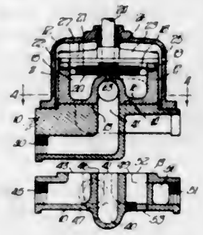
2,613,055
MANUALLY OPERATED BACKWATER SEWER VALVE
Tony Slapnicher, Hibbing, Minn.
Application July 14, 1948, Serial No. 38,607
1 Claim. (Cl. 251—63)



A manually operated back sewer valve comprising an elongated body having a longitudinal passage extending therethrough, a chamber fixed to and projecting outwardly from the body intermediate the ends of the body and intersecting the passage, said chamber having a removable closure at its end remote from the passage, a valve seat located with the wall of the passage spaced from and in registry with the other end of said chamber, a soft metallic lining in said seat and having a beveled peripheral edge, a hollow cylindrical valve slidably received in said chamber and having a beveled peripheral edge facing said lining and complemental to the beveled edge of said lining for engaging said beveled edge of said lining as the valve is moved to its closed position in the passage, an operating rod extending axially through the chamber and having an end threaded through said closure, the other end of said rod being reduced, a spherical element at the reduced end of said rod, a lug integrally formed with the end of said valve remote from the beveled edge of said valve and having a channeled groove receiving said spherical element, a gasket fixed to said lug and overlying said groove, said gasket having an aperture receiving the reduced end of said rod and retaining the spherical element in said groove said lug having a pair of spaced parallel horizontal bores intersecting said groove at right angles, and pins fitted in said bores and confining the spherical element therebetween.

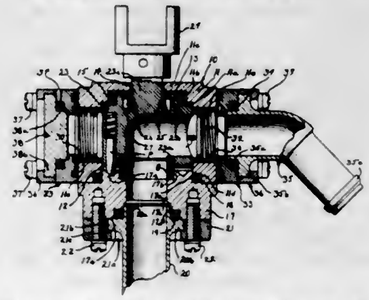
2,613,056
ROTARY DISK VALVE
Walter J. Hughes, Chicago, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware
Application November 13, 1947, Serial No. 785,624
7 Claims. (Cl. 251—85)

1. A rotary disc valve comprising a stationary seat, an inlet port in the center of said seat, a plurality of equally spaced peripheral ports equidistant from the inlet port, a rotatable valve disc co-acting with the stationary valve seat, a central port in the rotatable valve disc registering with the inlet port of the stationary seat, a peripheral port in the rotatable disc, a passageway connecting said ports in said rotatable valve disc, a pair of connected peripheral ports in said rotatable valve disc, one of said ports being diametrically opposite the first peripheral port in said disc and the other spaced therefrom by an angle of 60 degrees, means to rotate said valve disc, and means to force said disc against said seat, comprising a wall surrounding said disc,



a diaphragm across the open face of said disc and forming with said disc and wall a chamber, means opposing outward movement of said diaphragm, and a port connecting said passageway and said chamber in all positions of said disc.

2,613,057
SEAL AND SWIVEL MOUNTING
Jacob Rush Snyder, Cleveland, and James Frederick Norton, Cleveland Heights, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 24, 1945, Serial No. 624,242
3 Claims. (Cl. 251—103)



1. In a plug valve of the type having a valve body, a rotary valve plug therein, a plurality of ports in said valve body and combination port seals and gaskets in said ports having tubular portions slidable in the ports with active end faces engaging the valve plug and gasket-defining flange portions overlying outer faces of the valve body, the improvement of a combination seal and swivel mounting comprising a mounting block fixedly secured to the valve body, said block having a recessed end face receiving the gasket-defining flange portion of a seal, an axially extending bead around the periphery of said gasket-defining flange portion of the seal, a groove in the recessed end face of the mounting block receiving said bead, and a second groove in the recessed end face of the mounting block for receiving the tubular portion of the seal adjacent the flange portion thereof.

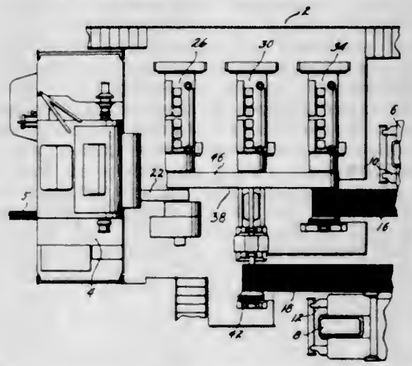
2,613,058
COOLED BLADED ROTOR
Joseph Atkinson, London, England
Application November 19, 1946, Serial No. 710,764
In Great Britain November 30, 1945
2 Claims. (Cl. 253—39.15)

1. A bladed rotor for an axial flow gas turbine operating at high temperatures comprising a rotor body composed of a plurality of flat metal discs, means to hold the discs together in mutually supporting relation as a pack, some of said discs having a plurality of circumferentially spaced apertures therethrough extending for only a part of the radius and only partly overlapping



like apertures in adjacent discs to define a coolant passageway extending between laminae from a point adjacent the axis of the pack to its margin, blades, and means affixing said blades adjacent the marginal termini of said passageways.

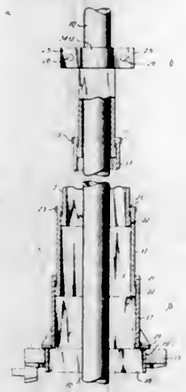
2,613,059
WELL DRILLING RIG
August R. Maier and John W. Jacoby, Oil City, Pa., assignors to United States Steel Company, a corporation of New Jersey
Application June 5, 1946, Serial No. 674,612
5 Claims. (Cl. 255—19)



1. In a rotary drilling apparatus including a drawworks, a main slush pump, and an auxiliary slush pump, the combination of a multiple engine drive unit comprising a plurality of parallel engines having driving shafts at their rear ends, a compounding drive unit positioned across the rear ends of the engines at right angles to the engine shafts, said compounding drive unit including an extension shaft for each engine, selectively engageable coupling means between each engine shaft and its extension shaft, means on said extension shafts to connect the extension shafts selectively to drive the drawworks, means on one of said extension shafts selectively to drive the main slush pump, and an auxiliary drive means connected to another of said extension shafts selectively to drive the auxiliary slush pump, said auxiliary drive means comprising a support fixed relatively to the compounding drive unit, a driven shaft supported thereby and positioned in line with the last named extension shaft, a removable coupling including a spacer element between the last named extension shaft

and the driven shaft of the auxiliary driving means, and means on the driven shaft selectively to drive the auxiliary slush pump, the compounding driving unit being removable from the engines as a unit when the couplings between the engines and the extension shafts are disengaged and the spacer element is removed.

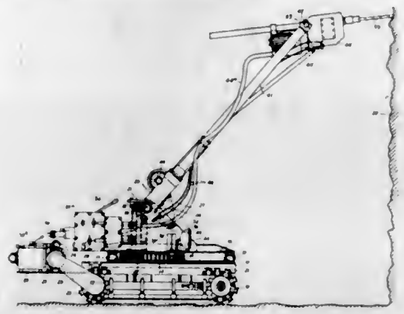
2,613,060
ROTARY TABLE DRIVE CONNECTION
Claudie R. Trahan, Kountze, Tex.
Application February 13, 1950, Serial No. 143,845
2 Claims. (Cl. 255—23)



1. A drive connection for drivingly connecting a rotary table to a pipe extending therethrough, comprising, a plurality of concentric tubular sections telescopically connected together for longitudinal extension and retraction adapted to surround the pipe, each of the sections except the outermost one, having a plurality of angularly spaced spline grooves in the exterior thereof extending longitudinally from the upper end thereof to points spaced from the lower end thereof to define upwardly facing shoulders at the lower ends of the grooves, each of the sections except the innermost one having mounted adjacent its upper end inwardly extending lugs projecting into the grooves of the adjacent section for engagement with said shoulders to thereby limit outward relative movement of the adjacent sections, and each of the sections except the outermost one having mounted adjacent its upper end outwardly projecting lug means engageable with the upper end of the next larger section to limit relative inward movement of the adjacent sections, a base member of polygonal shape mounted on the lower end of the outermost section for insertion in a correspondingly shaped socket in a rotary table, an outwardly extending flange about said base member engageable with the upper end of said rotary table, and releasable pipe gripping means mounted on the upper end of the innermost section for connection to said pipe.

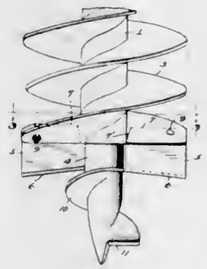
2,613,061
MACHINE FOR OPERATING IN ROCK, COAL, AND THE LIKE
Eric Wilson Hurd, Sheffield, England, assignor to Hardypick Limited, Sheffield, England, a corporation of Great Britain and Northern Ireland
Application January 22, 1951, Serial No. 207,218
In Great Britain July 5, 1949
6 Claims. (Cl. 255—51)

1. In a coal or rock working machine the combination of a turntable turnable about a vertical axis, means for adjusting said turntable, a jib carrying cradle carried on said turntable and pivotally mounted thereon at one end for movement in a vertical plane, means for adjusting said jib carrying cradle in a vertical plane, a hollow shaft journalled in said jib carrying cradle for rotation about its own axis and movable with said jib carrying cradle, means for adjusting said hollow shaft about its own axis, a jib member which is bifurcated at its outer end, said jib member being co-axial with said hollow shaft and secured thereto at its inner end, a drill



unit pivotally cradled in the bifurcated end of said jib member for movement about an axis normal to the axis of the jib member said pivot intersecting the axis of the drill, and drill unit angle adjusting means comprising a rod member mounted in said jib carrying cradle for lateral movement in relation thereto together with associated lateral motion means, and a second rod member pivotally secured to the upper end of the latter and pivotally secured to said drill unit for rotational movement of the latter about its pivoting axis.

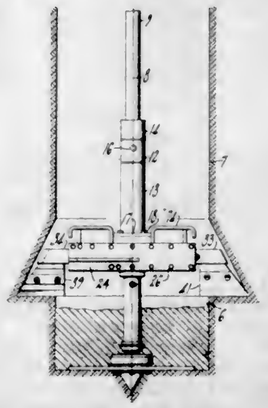
2,613,062
EARTH DRILLING BIT
Carl M. Harbert, New Castle, Pa.
Application December 20, 1950, Serial No. 201,797
1 Claim. (Cl. 255—69)



In an earth auger an elongated drill rod having a recess opening through one end thereof, helical blades carried by the drill rod and extending laterally therefrom in longitudinally spaced convolutions which terminate in transverse diametrically disposed radially extending edges adjacent the end of the drill rod having the recess therein, a pilot rod seated in the recess in said drill rod and extending longitundinally from said drill rod in axial alignment therewith, a relatively narrow helical blade carried by the pilot shaft and extending laterally therefrom in longitudinally spaced convolutions, radial blades carried by the pilot shaft and detachably connected to the wide helical blades adjacent the radial edges thereof

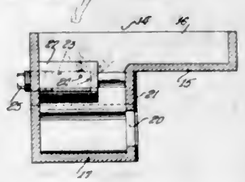
for retaining the pilot shaft in the recess, and said radial blades lying at an acute angle to the axis of the pilot shaft.

2,613,063
UNDERCUTTING EARTH AUGER
Ralph A. Ransdall, San Francisco, Calif.
Application October 31, 1949, Serial No. 124,680
8 Claims. (Cl. 255—74)



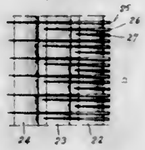
1. An undercutting earth auger for use in a hole having a central axis comprising a crosshead, means for supporting said crosshead for rotation about said axis, a cutter carrier, means for supporting said cutter carrier in said crosshead for movement approximately radially of said axis, a cutter on said cutter carrier, means for urging said cutter carrier toward said axis, and earth engaging plunger mounted in and depending from said crosshead for movement along said axis, and means interconnecting said plunger and said cutter carrier for moving said cutter carrier away from said axis upon upward movement of said plunger along said axis.

2,613,064
PURGING HEAD FOR RADIATOR CORE SECTION
Thomas W. Huffman, Odessa, Tex.
Application April 29, 1950, Serial No. 159,067
1 Claim. (Cl. 257—1)



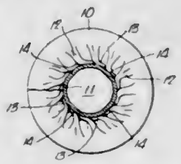
In an engine radiator composed of multiple core sections and upper and lower water reservoirs, a purging head for each end of each of said core sections, said heads each comprising a substantially L-shaped body in vertical cross section having a portion provided with a perimetrical flange receiving an end of a core section and a hollow portion adapted for sealing engagement with a water reservoir, said hollow portion having openings in register with openings in said water reservoir for the circulation of water, means for securing said body to said core section and water reservoir, a hollow boss formed integral with and extending inwardly from the outer wall of said hollow portion having its inner end closed except for a series of orifices disposed at a variety of angles with respect to the longitudinal axis of the boss and means threaded into the outer end of said boss to close the same.

2,613,065
COOLING RADIATOR
Maurice Didier, Asnieres, France, assignor to Societe Anonyme des Usines Chausson, Asnieres, France, a joint-stock company of France
Application March 17, 1948, Serial No. 15,456
In France November 21, 1947
1 Claim. (Cl. 257—124)



Cooling radiator comprising a group of these successive rows of tubes which are successively spaced further apart in each row so that the tubes decrease in number and area from the front row to the rear row of said group and a plurality of transverse fins spaced longitudinally along the length of the rows of tubes and arranged in groups of three, the first fins of each group extending crosswise of and around the front row of tubes, the intermediate fin of each group extending crosswise of and around the front and intermediate rows of tubes and the third fins of each group extending crosswise of and around all three rows of tubes, so that the total fin area decreases from the front to the rear of said group, and the radiator being positioned so that the flow of air is directed normally against the front surfaces of the front row of tubes.

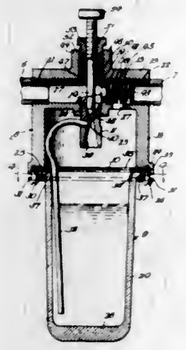
2,613,066
FINNED TUBE CONSTRUCTION
John Shipley Newlin, Paoli, Pa., assignor to Merchant & Evans Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application July 23, 1948, Serial No. 40,389, now Patent No. 2,532,239, dated November 28, 1950. Divided and this application November 22, 1949, Serial No. 128,873
4 Claims. (Cl. 257—262.20)



1. An article of manufacture comprising a hollow tubular member, a spiral fin helically wound on said tubular member, a plurality of radially extending folds formed in the base of the fin, and an integral foot on the fin extending along the inner periphery of said fin and tightly surrounding the outer periphery and extending axially of the hollow member, the said foot comprising compressed portions of said folds overlapped circumferentially with respect to the outer periphery of said hollow member, the foot being formed throughout the entire contact between the fin and the tubular member to provide

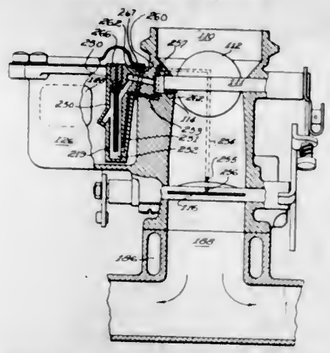
substantial mechanical support for the fin and increased heat transfer between the tubular member and the fin.

2,613,067
DEVICE FOR INTRODUCING ATOMIZED LIQUID INTO GAS UNDER PRESSURE
Harold J. Goodyer, Chicago, Ill., assignor, by mesne assignments, to Hills-McCanna Company, Chicago, Ill., a corporation of Illinois
Application January 21, 1950, Serial No. 139,809
6 Claims. (Cl. 261—2)



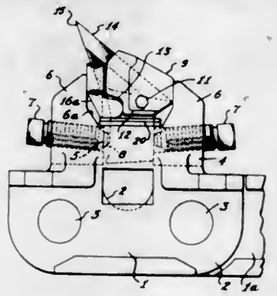
1. A device adapted to introduce liquid in atomized form into gas under pressure and comprising an inverted cup-shaped housing embodying a top wall and a continuous side wall depending from the top wall and forming therewith a chamber, and having its top wall shaped to form a duct for receiving the gas under pressure, an outlet duct, a cross partition between the inner ends of the two ducts and with an aperture therein for permitting part of the gas under pressure that enters the inlet duct to flow directly into the outlet duct, and an opening establishing communication between the upper portion of the chamber and the inner end of the outlet duct; a receptacle connected removably to, and depending from, the lower end of the housing side wall and adapted to contain a column of liquid to be atomized; a vertically extending Venturi tube disposed in the upper portion of the chamber, having the upper end thereof in communication with the inner end of the inlet duct, and adapted to have the remainder of the gas under pressure that enters said inlet duct flow downwards in stream form therethrough; an upstanding suction tube having the lower end thereof leading to the bottom portion of the receptacle interior and its upper end extending laterally into the Venturi tube, and adapted in response to downward flow of the stream of gas through the Venturi tube to supply liquid in droplet form from the receptacle into said stream for admixture with, and atomization by, the latter; and a horizontal baffle plate extending across the lower portion of the chamber, clamped between the lower end of the housing side wall and the upper end of the receptacle, spaced a small distance beneath the lower end of the Venturi tube, and adapted to have the downwardly flowing stream of gas with the atomized liquid therein impinge against it and then to deflect such stream so that it flows upwards through the chamber and thence through the opening into the outlet duct for mixture with the gas admitted directly via said aperture.

2,613,068
ANTIPERCOLATING DEVICE
William E. Egerer, Harry B. Medley, and Milton J. Kittler, Detroit, Mich., assignors to George M. Holley and Earl Holley
Application January 19, 1950, Serial No. 139,352
1 Claim. (Cl. 261—41)



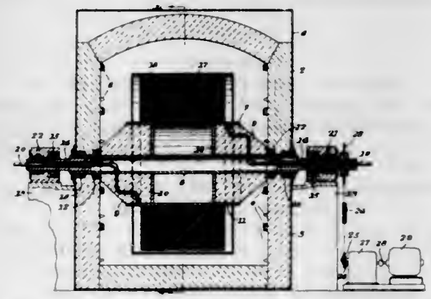
In a downdraft carburetor for an internal combustion engine, a constant level fuel supply chamber, an L shaped element, separate from and independent of the said chamber, the vertical leg consisting of an air vented well having a restricted fuel entrance, the lower horizontal leg carrying an automatic valve adapted to admit additional fuel to the well, engine suction operated means actuating said valve, a flange on the upper end of the vertical leg, said flange being bolted to the inside of the fuel supply chamber, low and high speed fuel passages through said flange, engine suction means for drawing the fuel through both sets of fuel passages.

2,613,069
MINING MACHINE BIT AND BLOCK
Armin O. Bruestle, Cincinnati, Ohio, assignor to The Cincinnati Mine Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application October 15, 1948, Serial No. 54,779
4 Claims. (Cl. 262—33)



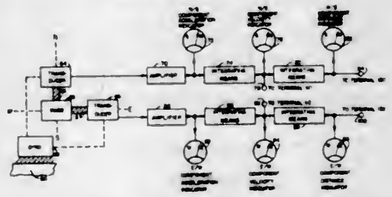
1. In a bit block and bit holder combination in which the bit block has a socketed body portion with two upwardly projecting lugs forming a bit holder head recess and clamping screws to engage the bit holder shank at either side; a bit holder having a head which retains the bit so as to project a cutting edge with a slanted underside, said bit holder having a shank which has some freedom of lateral movement in the socketed body portion, and an abutment piece separate from the bit block, said abutment piece and the bit holder having interengaging elements whereby the head holds down the abutment piece in a position between the two upwardly projecting lugs, said abutment piece being arranged to engage the slanting underside of the cutting edge of the bit, and to engage the upwardly extending face of one of the lugs when the bit holder head is in engagement with the upwardly extending face of the other of the lugs, and in which the abutment presents an abutting surface to the bottom of the bit holder head recess when in engagement with the bit and one of the block lugs and washer means is located about the bit holder shank resting on the bottom of the recess thus elevating the point of abutment and adjusting the position of the bit holder head without altering the relation of the abutment and the bit.

2,613,070
HEAT-TREATING STRIP
Clarence H. Verwohlt, St. Clairsville, Ohio
Application June 28, 1949, Serial No. 101,755
16 Claims. (Cl. 263—2)



1. A method of heat-treating strip comprising arranging the strip in generally circular coil form in a heating chamber with the axis of the coil generally horizontal, applying heat to the coil and while applying heat thereto maintaining the entire strip in generally circular coil form and rotating the coil about its axis.

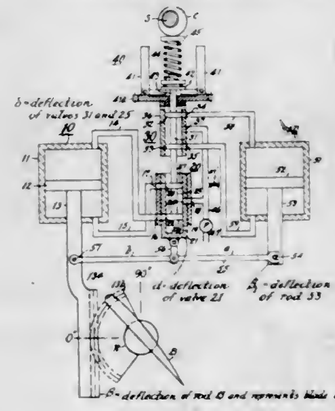
2,613,071
NAVIGATION SYSTEM, INCLUDING ACCELERATION INTEGRATING MEANS
Paul G. Hansel, Long Branch, N. J.
Application June 19, 1947, Serial No. 755,694
11 Claims. (Cl. 264—1)



1. A navigation system comprising; means for determining velocity components along a pair of mutually perpendicular axes, a cathode ray tube, means for deflecting the trace on the screen of said cathode ray tube along one axis in accordance with one of said velocity components, and means for deflecting said trace along a second axis orthogonal to said first-named axis in accordance with the second of said velocity components.

6. A motion measuring system comprising; a mass, a transducer responsive to changes in the momentum of said mass, a first integrating arrangement receptive of transducer outputs corresponding to positive accelerations of said mass, a second integrating arrangement receptive of transducer outputs corresponding to negative accelerations of said mass, means for combining the outputs of said first and second integrating arrangements to produce a resultant proportional to instantaneous speed, a speed indicator responsive to said resultant, means for integrating said resultant and a displacement indicating arrangement responsive to the integral of said resultant.

2,613,072
SPEED CONTROL GOVERNING APPARATUS
Howard Carson and Clifford L. Muzzey, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 23, 1945, Serial No. 630,378
5 Claims. (Cl. 264—4)

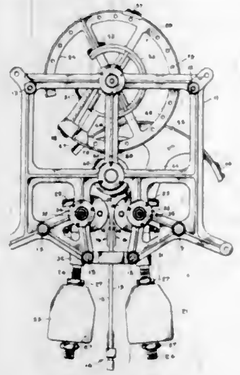


1. Governing apparatus comprising an hydraulic servo-motor having a cylinder and a piston, a fluid pressure source, means operated by the piston for controlling the speed of a prime-mover, a valve mechanism for connecting the source with said cylinder, said valve mechanism including a valve guide providing an intake port connected with the source and distribution ports connected with opposite ends of the cylinder, and two cooperable valve elements each movable relative to said valve guide for jointly controlling connection between the intake port and the distribution ports, centrifugal means for positioning one of the valve elements in accordance with the amount of speed error, and means including a pilot valve actuated by said centrifugal means, a piston controlled by the pilot valve, and a floating lever pivoted intermediate its length to the other valve element and at its ends to the first mentioned piston and to the last recited piston for positioning said other valve element in accordance with integrated speed error, whereby the position of the piston is under joint control of speed error and integrated speed error, and whereby the rate of movement of the piston is proportional to rate of change of speed error and to the amount of speed error.

2,613,073
WEIGHING SCALE
Lester D. Singleton, Rutland, Vt., assignor to The Howe Scale Company, a corporation of Vermont
Application February 11, 1946, Serial No. 646,883
15 Claims. (Cl. 265—62)

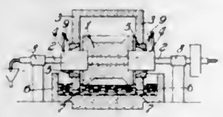
12. In a weighing scale of the class described, the combination with a load counterbalancing

pendulum and a cam carried thereon, of means for transmitting the load to said pendulum, said means comprising a connector having a flat portion and a rotatable deflector, a metal strap fixed to said flat portion of said connector at one end



and at the other end to the load and a relatively short flexible tape pivotally mounted at one end on said flat portion of said connector and at its other end on said cam and contacting said deflector at a point intermediate said pivotal points.

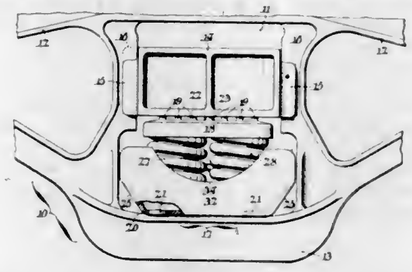
2,613,074
APPARATUS FOR SHOWERING MOLTEN METALS
Stephen Esslemont Woods, Bristol, England, assignor to The National Smelting Company Limited, London, England
Application January 24, 1950, Serial No. 140,281
In Great Britain February 7, 1949
9 Claims. (Cl. 266—15)



5. A gland sealing arrangement for a metal showering apparatus comprising a gland, a shaft passing through the gland with a substantially unimpeded annular clearance therebetween, metal showering means secured to the shaft which feed liquid metal to one end of the clearance to close the clearance and flow metal therethrough, and means for collecting the liquid metal escaping from the other end of the clearance, said shaft being rotatably mounted in an external bearing.

2,613,075
BOLSTER SPRING AND SNUBBER MEANS FOR RAILWAY CAR TRUCKS
Charles D. Barrett, Altoona, Pa.
Application April 21, 1949, Serial No. 88,834
14 Claims. (Cl. 267—9)

1. Bolster spring and snubber means in the form of a pre-assembled unit for use with a standard railway car truck side frame having a window opening whereof the upper portion serves as a vertical guideway for the corresponding end of the bolster, and whereof the lower portion is wider to clear the bolster end incident to assembling, said unit comprising a box-like element of a width to substantially fill the lower portion of the window in the side frame, a pad of a width somewhat less than that of the upper guide portion of said window upon which the bolster end is rested, a group of five upright helical springs arranged transversely of the window opening in closely spaced relation with a center spring be-



tween pairs of inner and outer springs, and snubber means within the hollow of the box-like element positioned at opposite sides of the center spring, to cooperate with the pad in controlling the action of the springs.

2,613,076
DOOR OPERATION CONTROL
Cyrus W. Bassett, Port-au-Peck, N. J., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass., a corporation of Delaware
Application March 20, 1948, Serial No. 16,113
2 Claims. (Cl. 268—46)



2. The combination, with a wall pocket, of a door slidable into said wall pocket, to clear a passageway, a door operating motor, means for controlling energization of said motor, in a direction to cause sliding movement of the door into said wall pocket, said means including a motor energizing circuit having a movable switch element therein, a pair of striker elements abutting said movable switch elements on opposite sides thereof, and means for causing one or the other of said striker elements to exert circuit closing pressure upon said movable switch element, said last named means including a pair of flat plates carried on opposite surfaces of the door adjacent said striker elements, either of said flat plates being movable toward the other, to move said switch element to circuit-closing position in response to pressure applied to either face of the door; said flat plates being concealed within said wall pocket when the door reaches the limit of its motion in one direction.

2,613,077
FOLDING AND GATHERING MEANS FOR BOOKS
Edwin K. Smith, Jr., New York, N. Y., assignor, by mesne assignments, to The de Florez Company, Inc., a corporation of Delaware
Application January 13, 1949, Serial No. 70,744
2 Claims. (Cl. 270—5)

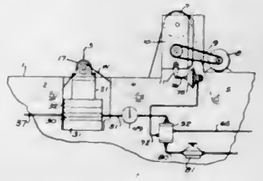
1. In a folding and gathering apparatus for processing a continuous web which has successive cyclic groups of printed page impressions arranged in ranks and files on the web, said groups constituting all the pages of a book, said apparatus including, in combination, a plurality of form folders for longitudinally folding the ranks

of page impressions across the web into a strip of one page width, cutting rollers adapted to receive the folded web strip and laterally sever said strip into successive segments of one page length; the improvement, comprising, feed rollers operating at a higher peripheral speed than the cutting rollers and adapted to receive the cut page segments, and, by the accelerated speed of said feed rollers, to space the segments from each other as they are moved successively through said feed rollers, guide plate members adapted to receive



the page segments therebetween, means for pivotally mounting the edges of said guide plates adjacent the feed rollers, indexing means adapted to vary the positional disposition of the edges of the guide plates remote from the feed rollers so that the successive page segments will be discharged from the guide plates in successively different planes, and a continuously moving receiving station adapted to receive the successive page segments in side-by-side relation to each other, the plane of delivery of the sheets being at right angles to the path of the conveyor.

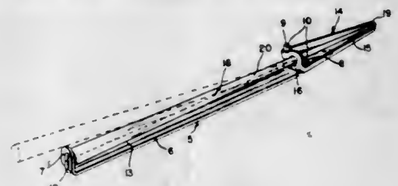
2,613,078
APPARATUS FOR MAINTAINING LOAD ON LENGTHWISE MOVING WORKPIECES
Milton N. Weber, Detroit, Mich., assignor of one-half to Herbert W. Link, Detroit, Mich.
Application August 1, 1950, Serial No. 177,077
6 Claims. (Cl. 271—2.3)



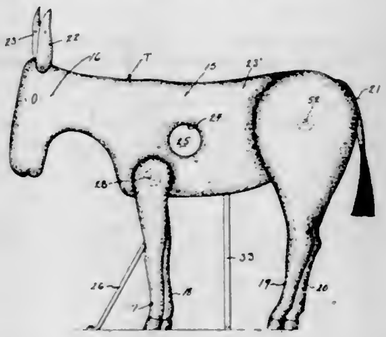
1. In combination with a machine having guide devices over which a long work piece moves for passage of the work piece through the machine with lengthwise movement, including a driving roller which the work piece engages and a variable speed driving mechanism for driving the roller to propel the work piece, said variable speed driving mechanism having a control member which is shiftable to vary the speed of the driving roller; an air pressure device for supporting a guide device, valve means sensible to variations in the load on the guide device for varying the air pressure which supports the guide device, means for shifting the control member and means operable incident to variation in the air pressure which supports the guide device for actuating said control means of the variable speed driving mechanism.

2,613,079
CUE HOLDER
Hylus G. Reynolds, Plaza, Wash.
Application August 22, 1950, Serial No. 180,782
2 Claims. (Cl. 273—71)

1. A cue holder comprising a body of lesser length than the cue and having a cue centering recess therein and an upstanding ear at one end thereof, whereby a cue mounted therein will have the butt end centered by said recess and be supported against end movement by said ear; upstanding and diverging fingers on the end of said body opposed to said ear and defining a V-shaped slot for engaging the cue rearwardly spaced from its tip end; and a resilient band removably secured to said fingers for passing over the tip end of the cue to exert end pressure thereon.



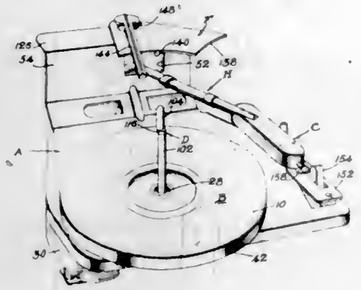
2,613,080
KICKING ANIMAL TARGET
Edward P. Dow, Manitowoc, Wis.
Application February 21, 1951, Serial No. 211,987
3 Claims. (Cl. 273—102.2)



1. An animated amusement device simulating the appearance of a kicking mule comprising a pair of front rigidly supported legs, a body rockably mounted at its forward end on said legs, spring means normally tending to swing the body on the legs with the front end of the body in a lowered position and the rear end of the body in a raised position, said body having a target opening, a movable target plate in rear of said opening, a releasable latch normally holding the body in a normal lowered position against movement under said spring means, means operatively connecting the target plate to the latch for releasing the latch when said target plate is forcibly struck, rear legs pivotally carried by the rear end of the body, spring means normally urging the legs to a raised kicking position on said body, and cooperable latch means between the body and said rear legs for normally holding the legs in a lowered position against the tension of said spring means when said body is in its normal lowered position, and said last named latch means including a rigid latch keeper bar secured to the rear legs above the pivot point thereof having a front beveled nose, a swinging latch lever, a swinging supporting link pivotally connected to the forward end of the latch lever and pivotally connected to a rigid part of the device, a lift link pivotally secured to the body and to the latch lever adjacent to its latch end, said latch end of the lever having a beveled nose for inter-

latching engagement with the beveled nose of the keeper bar and means normally holding the latch lever and the links in a predetermined raised position.

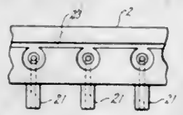
2,613,081
RECORD CHANGER PHONOGRAPH
Berne N. Fisher, New York, N. Y., assignor to General Instrument Corporation, Elizabeth, N. J., a corporation of New Jersey
Application July 26, 1946, Serial No. 686,313
4 Claims. (Cl. 274—10)



1. In an automatic phonograph, a base plate, a turntable rotatably mounted thereon, a tone arm above said turntable movable through record playing and record changing positions, a cam rotatably mounted below said base plate and having a plurality of paths corresponding to different initial playing positions of said tone arm, a tone arm operating member connected to the tone arm, extending below said base plate, and there being provided with a follower engageable with said cam and movable within the paths on said cam, the cam and cam follower functioning in the operation of the phonograph to move the tone arm to a record changing position and return the same to any one of a plurality of initial playing positions, control means on said tone arm operating member to one side of said base plate, a record holder mounted on and above said base plate and movable between positions for supporting records of large and small sizes, said record holder comprising a rotatable plate connected to a vertical member extending downwardly from said plate, said vertical member having a lateral projection, said tone arm operating member having a finger projecting from a portion thereof, said projection and said finger, by rotation of said plate to support records of one size, being positioned so as to be engageable to cause said cam follower to move in a given cam path so as to select an appropriate initial playing position for said tone arm, rotation of said plate to support records of another size positioning said projection so as to be non-engageable with said finger, thus permitting said cam follower to move in a different cam path so as to select an appropriate initial playing position for said tone arm.

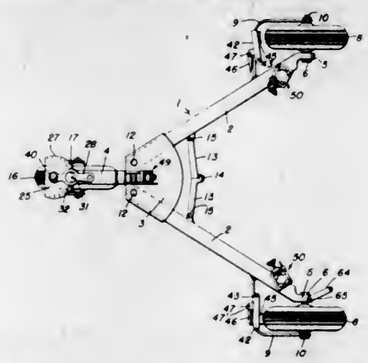
2,613,082
GAS MANIFOLD AND VALVE FOR ANALYZING GAS MIXTURES
Lloyd V. Guild, Pittsburgh, Pa.
Application March 15, 1949, Serial No. 81,516
1 Claim. (Cl. 277—60)

In apparatus for analyzing gas mixtures, a valved manifold comprising an elongated body portion having a plurality of depending cylindrical members with glands communicating with a common meeting channel, said channel having cylindrical recesses concentric with the glands of said depending members, a second body portion of complementary dimensions to said first-named body portion, and a resilient strip disposed between the abutting faces of said portions, the second-named body portion having cylindrical portions in register with the cylindrical recesses of the first-named body portion,



a cylinder in each of said portions and adjusting screws abutting the ends of the cylinders whereby upon displacement of the cylinders, portions of the resilient strip are displaced in the recesses of the first-named body portion to effectively seal the gland with which it is in register, said first-named body portion being counterbored in the gland passage for receiving springs to restore the flexible strip to its normal open position when the screw acting on the cylinders is retracted.

2,613,083
DOLLY FOR TRANSPORTING TRIPOD CAMERAS
Rudolph Joseph Moludy, Akron, Ohio
Application December 29, 1947, Serial No. 794,301
1 Claim. (Cl. 280—42)

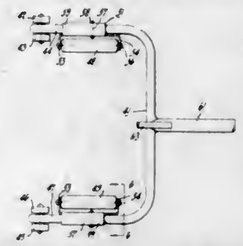


In a folding dolly for transporting a tripod camera, a pair of side bars having front and rear ends, a plate to which the front ends of said side bars are pivoted for swinging of said bars into and from divergent relation to unfold and fold the dolly respectively, side flanges on said plate for limiting swinging of said side bars into divergent relation, a rear wheel on the rear end of each side bar, an upwardly arched bar fixed to and extending forwardly of said plate, a front steering wheel mounted in said arched bar, holding means extending between and connected to said side bars for retaining the same in divergent relation against said flanges, and means on said arched bar and said side bars for fastening the legs of a tripod thereto.

2,613,084
WHEEL AND TIRE LIFTER
Arthur R. Burch, Berkeley, Calif.
Application December 17, 1948, Serial No. 65,779
2 Claims. (Cl. 280—53)

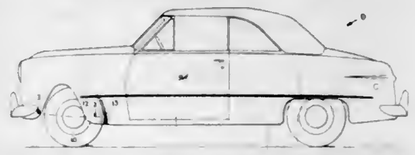
1. A wheel and tire lifter comprising a frame having a fork at one end to provide a pair of tines,

ground engaging wheels on said frame at said end, a handle at the other end of said frame, a pair of rocking frameworks each including a channel straddling one of said tines, a pair of arms affixed to each of said channels and extend-



ing inwardly of said frame, a tire-supporting roller journaled between each of said pairs of arms, and pivots passing eccentrically through said channels and said tines an intermediate portion of said frame between said ground engaging wheels and said handle.

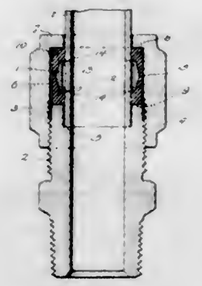
2,613,085
MOTOR VEHICLE FENDER AND FENDER SHIELD CONSTRUCTION
Jules Haltenberger, La Jolla, Calif.
Application November 27, 1948, Serial No. 62,361
6 Claims. (Cl. 280—153)



5. With an automobile having front doors, front steering wheels, front fender structures for each of the steering wheels having an upper portion and with front and rear portions spaced from the wheel extending down and around and at least to the horizontal center of the front steering wheels, said fender structure having depending outer masking portions in surface continuation with said doors covering the rear upper quarter of the steering wheels and tires and being bowed outwardly to clear the wheels and tires upon steering movement of the wheels, and forward portions depending from the front portions of the fender structure clearing the forward parts of the tires and wheels on steering movement thereof and disposed inwardly with respect to and from the bowed out rear depending portions, and said depending portions being spaced apart and having a downwardly tapering opening between the rear and forward portions of appreciably less width than the diameter of the wheel and tire through which the wheel and tire forward parts extend angularly when in outer extreme of steering adjustment.

2,613,086
COUPLING FOR FLARELESS TUBES
John N. Wolfram, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application March 29, 1944, Serial No. 528,582
11 Claims. (Cl. 285—90)

1. A coupling for flareless tubes comprising coupling members having a threaded connection, said members having opposed end walls and being shaped so as to provide an inner recess disposed for surrounding a tube inserted in the coupling and a sleeve of non-compressible deformable material disposed in said recess and surrounding the tube, said sleeve being dimensioned so as to be deformed by the coupling members into pressure gripping engagement with the tube as said coupling members are moved rela-



tively to bring said end walls closer together, and a split metal ring located within said sleeve between the ends thereof with a portion of the sleeve disposed for sealing engagement with the tube endwise of the ring at each end thereof, said ring having on the inner face thereof sharp cutting edges adapted to bite into the wall of the tube when said ring is contracted into engagement therewith by the deforming of said sleeve.

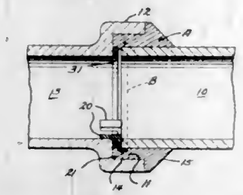
2,613,087
FLEXIBLE CONDUIT JOINT
Joseph S. Alford, Nahant, Mass., assignor to General Electric Company, a corporation of New York
Application December 24, 1948, Serial No. 67,104
3 Claims. (Cl. 285—92)



1. In a sealed flexible joint adapted to effect angular displacements between portions of a conduit for carrying fluid at a pressure different from ambient pressure, the combination of first and second conduit sections with portions thereof adapted to be in overlapping relationship forming a slip joint, flexible sealing means enclosing said joint and having end portions sealed to the first and second conduit sections respectively beyond the portions thereof adapted to be in overlapping relationship, and first and second wall portions enclosing and spaced from said sealing means and having end portions secured to the first and second conduit sections respectively,

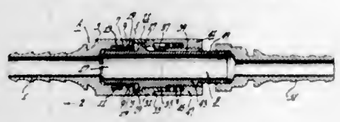
said first and second wall portions having substantially continuous contacting surfaces of revolution with a slope at any point thereon with respect to the axis of said conduit sections greater than the coefficient of friction of said wall materials between said contacting surface.

2,613,088
PIPE JOINT
George J. Burke, Arlington, Va., assignor of one-third to William F. Barrett, Arlington County, Va.
Application August 15, 1946, Serial No. 690,662
2 Claims. (Cl. 285—115)



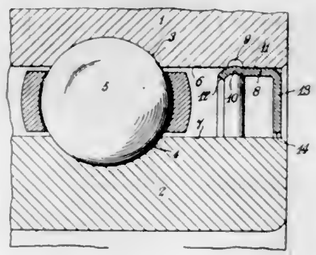
1. An improved pipe joint between two adjacent pipes having a bell end and a spigot end in juxtaposition comprising, a gasket mounted upon said spigot end and having centering lugs extending therefrom and engaging the inner surface of the pipe having the bell end inwardly of the bell when the pipes are brought into assembled relation, a joint material sealing the space between the adjacent end portions of said pipes, said gasket being in the form of a split ring provided with apertured ears, a threaded bolt disposed in the apertures in said ears, a nut on said threaded bolt, and said gasket being provided with a resilient band for bridging the space between the adjacent ends of said pipes to prevent the joint material when in a fluid state from entering the interior of said pipes.

2,613,089
HOSE COUPLING
Herbert A. Maiman, Havertown, Pa.
Application August 3, 1950, Serial No. 177,383
5 Claims. (Cl. 285—178)



3. A hose coupling comprising male and female members, said female member having a pair of inwardly directed, diametrically oppositely disposed segmental flanges at one end thereof, the spaces between said flanges constituting a pair of diametrically oppositely located seats, said male member having a pair of outwardly extending diametrically opposite segmental flanges adapted to engage behind said first named flanges when said male member is inserted into said female member a predetermined distance and said members are rotated relative to each other through a predetermined angle to thereby bring said flanges into mating relationship for connecting said members together, a first locking sleeve slidably carried by said male member and having a pair of diametrically opposed projections adapted to be received in said seats to prevent relative rotation of said members to a position where said flanges are withdrawn from said mating relationship, a second sleeve threaded on said male member adapted to be turned up against said first sleeve to lock it in position with its said projections in said seats thereby to positively lock said members in connected relationship, said second sleeve being cup-like in form, and a coil spring within said cup-like sleeve around said male member, said spring being adapted, when said cup-like sleeve is turned up along said male member sufficiently toward said first locking sleeve, to engage said first locking sleeve and force said first locking sleeve into position where its said projections will enter said seats.

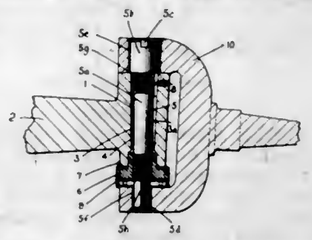
2,613,090
GREASE SHIELD FOR ANTIFRICTION BEARINGS
Frederick Osgood Hickling, West Bridgford, Nottingham, England, assignor to Ransome and Marles Bearing Company Limited, Nottingham, England, a British company
Application November 18, 1948, Serial No. 60,806
In Great Britain September 1, 1947
7 Claims. (Cl. 286—5)



1. A bearing assembly comprising two relatively rotatable members, one of which is ground to provide a seating surface and has a circumferential groove in the ground surface, a grease shield seated around said ground surface and being in the form of a ring of substantially L shape in cross section to provide an axial sleeve engaging said ground surface and a radial flange substantially closing the space between said members, means of convex shape pre-formed on said axial sleeve of the grease shield and seated in said groove, said convex means being at least as wide as said groove to span said groove and engaging the side edges of said groove to prevent axial displacement of the said grease shield between said members, the periphery of the grease shield being of such diameter as to have an easy push fit with respect to said ground surface.

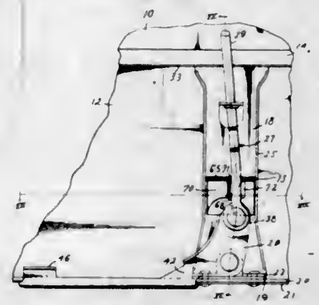
2,613,091
STUB AXLE OR THE LIKE HINGED ASSEMBLY
Kenneth Rutland Funnell, Blenheim, Marlborough, New Zealand, assignor to Funnells Inventions Limited, Blenheim, Marlborough, New Zealand, a New Zealand company
Application December 18, 1946, Serial No. 716,976
In New Zealand March 29, 1946
5 Claims. (Cl. 287—100)

1. A stub axle assembly associated with an axle beam comprising a forked member, an inner member associated with the axle beam and located within the fork of the forked member, a tapered hinge member extending through the forked member and the inner member and securable within the latter, and rotary means associated with the tapered hinge member and located between the inner member and one side of the fork and abutting against the inner member, said rotary means being adapted when rotated in one direction to cause a positive initial axial



movement of the said tapered hinge member to permit ready withdrawal of the latter, the rotary means being adapted when rotated in the other direction to tighten the tapered hinge member within the inner member.

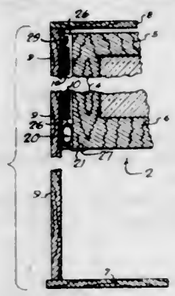
2,613,092
FENDER SHIELD LATCHING DEVICE
George W. Schatzman, Detroit, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application August 15, 1947, Serial No. 768,915
5 Claims. (Cl. 292—66)



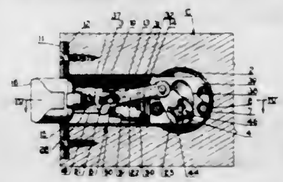
4. In combination in a fender shield latching mechanism of the character described, a vertical supporting member, a bearing structure on the upper portion of said supporting member affording a vertical axis bearing eye, a latch rod reciprocably guided in said bearing eye, a link pivotally mounted at the lower end of said supporting structure and pivotally connected above said pivotal mounting to said latch rod, and an elongated generally horizontally disposed handle member of dished reinforced form having a narrow flange along its inner longitudinal edge, said handle member being connected to said link so that the handle member can engage under a fender shield marginal flange with said narrow flange along side the inner edge of the fender shield flange, the distal end portion of the narrow handle flange having an upwardly and inwardly turned tongue extension providing a finger hold for manipulating the handle member to operate said link.

2,613,093
WINDOW SASH BALANCE
Harry B. Foresman, Oklahoma City, Okla.
Application August 23, 1948, Serial No. 45,716
4 Claims. (Cl. 292—76)

3. A spring for producing friction between a window frame and the edge of a vertically slidable window sash to support the sash in the frame, including: a strip of resilient sheet metal bent longitudinally outward upon itself to form a hollow loop with one end of the strip confined within the loop and free to move longitudinally therein to resiliently reinforce the same; an outwardly extending off-set portion formed by the strip and projecting from the loop; and an end portion extending laterally from the off-set portion and forming an anchoring bracket for the strip.



2,613,094
REVERSIBLE LATCH BOLT UNIT
Ernest L. Schlage, Burlingame, Calif.
Application July 12, 1949, Serial No. 104,178
13 Claims. (Cl. 292—244)



10. A door lock with a reversible latch bolt unit comprising a housing, a latch bolt slidable within said housing along a longitudinal axis, a crank rotatable with respect to said housing about either one of two transverse axes on opposite sides of said longitudinal axis, a retractor pivotally connected to said crank, and a longitudinal lost-motion connection between said retractor and said latch bolt.

2,613,095
SEAL
Winfred M. Brooks, West Orange, N. J., assignor to E. J. Brooks Company, Newark, N. J., a corporation of New Jersey
Application December 19, 1950, Serial No. 201,662
1 Claim. (Cl. 292—322)



In a seal of sheet material comprising two connected main sections movable toward one another on a bending line located where they are connected together, and having means adjacent their free ends to interengage when closing the seal, one of said main sections having inner and outer curved surfaces, and the other of said main sections having substantially flat inner and outer surfaces, said main sections being provided with a rupture-opening that spans said bending line intermediate the ends of the latter, said opening tapering at opposite ends

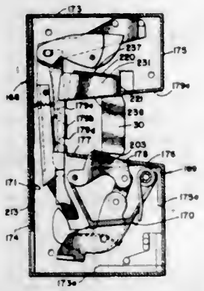
in a direction at right angles to said bending line, a portion of the material of the substantially flat main section being outwardly raised to form a hood adjacent one end of said rupture-opening (to admit the insertion of a tool for the purpose of rupturing the seal) on the bending line.

2,613,096
STRIKE
Adolf Schoepe, Anaheim, Calif., assignor to Kwikset Locks, Inc., Anaheim, Calif., a corporation of California
Application June 10, 1949, Serial No. 98,209
2 Claims. (Cl. 292—340)



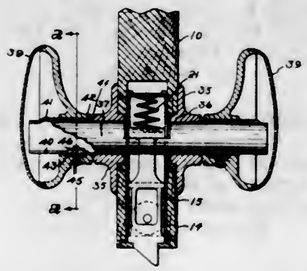
2. A strike for door locks comprising a section of sheet metal having an aperture therethrough adapted to receive the bolt of a door lock and one edge of which serves as a locking edge engageable by the bolt, the metal of the strike along said edge being bent outwardly out of the plane of the strike so as to extend toward the edge of the door with whose door lock the strike is adapted to be associated.

2,613,097
DOVETAIL CONSTRUCTION
Burnie J. Craig, Los Angeles County, Calif.
Application April 30, 1949, Serial No. 90,597
4 Claims. (Cl. 292—341.12)



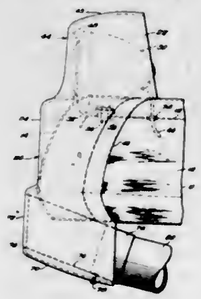
2. A keeper structure adapted to be fastened to a vehicle for cooperative engagement with door abutment means carried on a swinging door, comprising a unitary, generally C-shaped body having a front face and having upper and lower opposed jaw portions which are integral continuations of the front face, said jaw portions being spaced apart vertically to provide an opening closed at its inner side by a vertical portion of the keeper body and including a part which is an integral continuation of the front face and is disposed substantially perpendicular to the front face and which rigidly connects the upper and lower spaced jaw portions, a dovetail wedge, means including a portion on one of the jaw portions and having a surface slidably engaged by a face of the dovetail wedge for slidably mounting the dovetail wedge for movement on said one of the jaw portions, and spring means urging the dovetail wedge outwardly, the other jaw portion of the keeper body having a surface disposed on a part thereof which is a continuation of the front face of the body and is disposed perpendicular to the front face of the body and from which a projection extends for cooperation with the door abutment means, the door abutment means being movable between the other jaw portion and the dovetail wedge in wedging relation thereto, the upper and lower jaw surfaces being held by the keeper body in fixed vertically spaced relation.

2,613,098
SPINDLE AND HANDLE CONNECTION
Gunther K. E. Kleeberg, Belfast, Maine
Original application October 9, 1946, Serial No. 702,182, now Patent No. 2,510,746, dated June 6, 1950. Divided and this application May 9, 1950, Serial No. 160,954
5 Claims. (Cl. 292—355)



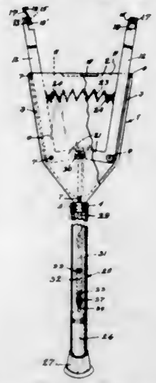
1. In combination, a spindle member and a handle including a hub member having an aperture to receive one extremity of said spindle member, one of said members having a recess, and means to deform a portion of the other member into said recess to positively interconnect said handle and said spindle.

2,613,099
BUMPER GUARD STRUCTURE
Richard H. Arbib, Grosse Pointe Woods, Mich., assignor to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application December 11, 1948, Serial No. 64,771
7 Claims. (Cl. 293—65)



1. A bumper guard structure for attachment to a vehicle bumper comprising, in combination, an elongated housing shell defining a hollow chamber, spaced apertures in said housing shell, a support bracket disposed within said housing shell, a light mounted on said bracket in alignment with one of said apertures, a cylindrical sleeve secured in said housing having one open end in alignment with the other of said apertures, and the other open end arranged for connection to the end of an exhaust pipe.

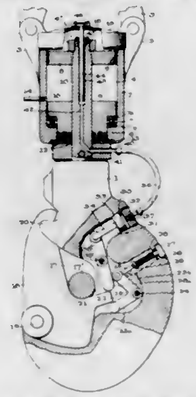
2,613,100
ARTICLE GRASPING AND HANDLING DEVICE
Walter Lee Casey, Jr., Bonners Ferry, Idaho
Application December 6, 1951, Serial No. 260,158
4 Claims. (Cl. 294—19)



1. An article holder comprising a hollow head having top and bottom walls and side walls and being open at its front, a bored shank extending rearwardly from said body, the top wall being removable, a tubular handle into which the front end of said shank fits, arms extending longitudinally in said head adjacent opposite side walls thereof and pivoted at rear ends for swinging movement transversely of the head towards and away from each other, said arms projecting forwardly through the open front of the head and having outer front end portions bent diagonally across the front edge of the bottom wall, ears projecting upwardly along inner side edges of front ends of said arms and having bent rear portions forming abutment tongues, lugs projecting from inner side edges of said arms within the body, a spring in said head extending transversely thereof with its ends fitting about said lugs and urging the arms apart, extensions extending towards each other from inner ends of said arms and overlapped, one extension being formed with an opening and the other with a longitudinal slot, jaws pivoted to the ears at front ends of said arms and each having an inwardly extending bill at its front end, pivoted movement of the jaws being limited by engagement with said flanges, and an actuating rod extending longitudinally through the handle and the shank into the head and at its front end having a pin passing through the opening and the slot in said extensions and serving to swing the arms transversely of the body when the rod is shifted longitudinally.

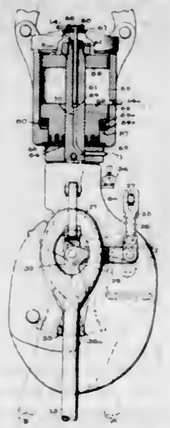
2,613,101
HOOK LATCH OPERATING MECHANISM
Claude McJunis Roberson, Shreveport, La.
Application October 17, 1950, Serial No. 190,516
20 Claims. (Cl. 294—82)

13. In a hook assembly for oil well drilling apparatus comprising a hook and hook body, the hook having a notch for receiving a bail, a latch member pivotally mounted adjacent said notch selectively movable with respect to the hook to positions to open and close said notch, said latch member having an extension portion adapted to support a bail and extending inwardly from the pivot point of the latch member into a space formed within said hook, the bail urging said latch member to its closed position when it is supported on said extension portion thereof, a piston positioned in a chamber formed by the walls bounding said space, a sealing plug at one end of said chamber, said piston and said sealing plug defining the ends of an expansible fluid chamber, means for conducting fluid under pressure to said expansible chamber, a bell crank lever pivoted on the hook within said space and having one arm positioned at one side of the extension portion of the latch member, means yieldingly urging said one arm of the bell crank lever away from said extension portion of the latch member, a locking lever pivoted intermediate its ends connected at one end to the piston and bearing adjacent its other end against the other arm of said bell crank lever, said other



end of the locking lever being urged by the last-mentioned means to a position in the path of movement of said extension portion of the latch member to the open position of the latch member, supply of fluid under pressure to said expansible chamber causing the piston to move the locking lever out of the path of the extension portion of the latch member to the open position of the latch member and against said other arm of the bell crank lever to move the bell crank lever against said last-mentioned means in a direction to cause said one arm of the bell crank lever to engage the extension portion of the latch member and move the latch member to its open position.

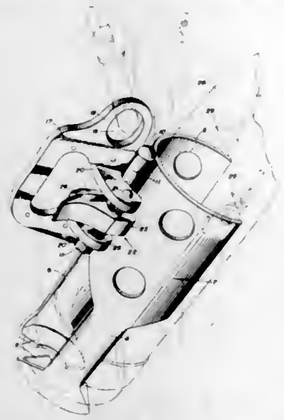
2,613,102
PNEUMATICALLY OPERATED ELEVATOR BAIL
Claude M. Roberson, Shreveport, La.
Application December 14, 1950, Serial No. 200,774
13 Claims. (Cl. 294—82)



1. A hook assembly for oil well drilling comprising a hook, a hook body, an elevator-support-

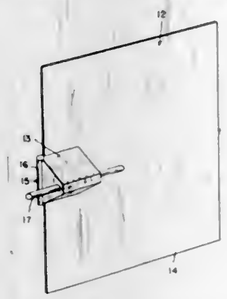
ing bail supported by said hook for swinging movement, and means carried by the hook assembly and connected to the bail for swinging said bail.

2,613,103
GRAPPLE
Horace K. Bushnell, Jr., Glen Mills, Pa.
Application August 23, 1949, Serial No. 111,960
9 Claims. (Cl. 294—106)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



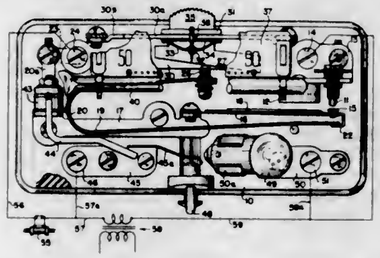
1. A carrier for cylindrical objects comprising a pair of hinged gripping jaws, a handle mounted on one of the jaws, a latch having a cam surface said latch being pivotally attached to one of said jaws and serving to cam the other jaw into engagement with the object to be carried, a lug on the second of said jaws against which the latch is resiliently urged to maintain the gripping jaws in article gripping position, a guard to prevent accidental release of the latch said latch having a manually engageable portion whereby it can be manually moved against the resilient pressure from contact with the said lug so that the said gripping jaws can open to engage or disengage an article.

2,613,104
DETACHABLE LIGHT REFLECTOR FOR VEHICLE BODIES
Walter W. Parsons, Lakeville, Mich.
Application May 15, 1950, Serial No. 161,947
2 Claims. (Cl. 296—97)



1. A light reflector for use in connection with a vehicle body having a window surrounded by metal framing, comprising a shield in the form of a relatively stiff, flat sheet having light reflecting characteristics, a supporting block of nonmagnetic material fixed to one side of said shield and having a face substantially coinciding with one marginal edge of said shield, said face extending laterally with respect to said shield from the said one marginal edge, a permanent magnet secured to said face of said block adjacent the said one marginal edge of said shield in a position to engage a selected part of the framing and to secure said shield thereto, and a brace carried by said block in laterally spaced relation to said shield and extending beyond the said marginal edge of the latter for engagement with the framing, thereby to resist tipping of said shield from its operative position relative to the vehicle body window.

2,613,105
CONTROL DEVICE
Carl G. Kronmiller, Edina, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 23, 1948, Serial No. 67,008
3 Claims. (Cl. 297—11)

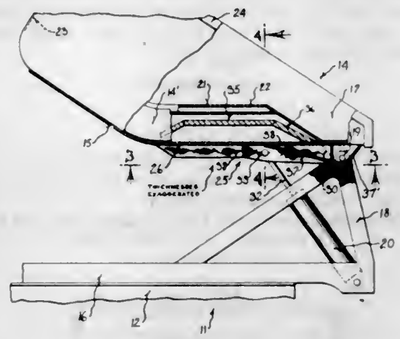


1. In a condition control device, a base adapted to be mounted on the wall of a room, a condition responsive means positioned on said base, said condition responsive means having an adjustable portion the position of which determines the control condition value, a bracket on said base having parallel members forming a longitudinal track, a slider carried by said members and movable along the track provided thereby, said track having parallel inner and outer faces, said slider having a manually engageable portion and having a cam operatively engaging the adjustable portion of the condition responsive means, said slider having a rigid track engaging portion movable along the outer faces of the track, said slider also including resilient biasing means engaging the inner faces of the track for holding said rigid track engaging portion firmly against the outer faces of the track forming members, a scale plate bearing indicia of the condition carried by said bracket and arranged parallel to said track, and a pointer carried by said slider and movable along said scale plate.

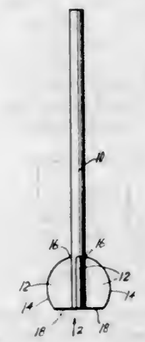
2,613,106
DUMP BODY CONSTRUCTION
Glenway Maxon, Jr., Milwaukee, Wis.
Application January 25, 1947, Serial No. 724,261
7 Claims. (Cl. 298—17)

1. In a dump truck having a chassis: a shell-like body of resilient relatively light sheet metal, said body being open at its top and having an upwardly and rearwardly slanting bottom wall extending to its rear end, and having laterally outer sections at the junctions of said bottom wall with the body side walls which are curved on substantial radii and laterally inner sections

at each side of the longitudinal center line of said bottom wall which curve upwardly therefrom on substantial radii to provide a central longitudinal keel for the body relative to which the laterally outer portions of said bottom wall are free to flex; a pivotal support on the chassis adjacent to the rear thereof; hoist mechanism on the chassis; and means for mounting the body on the chassis for tilting motion on said pivotal support and for connecting the body to the hoist mechanism, said means including a rigid lever-like support secured to said bottom wall of the body and mounted at its rear on said pivotal support and having said hoist mechanism connected to it intermediate its ends, engagement of that portion of the lever-like support from its outer end rearwardly to and including the area of its connection with the hoist mechanism being confined to longitudinal portions of said bottom wall adjacent to the junctions of said bottom with the curved inner sections at the base of the keel so that the portions of the body laterally outwardly of said longitudinal portions are free to flex.

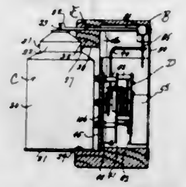


2,613,107
SWIRLING AND MIXING SIPPING STRAW
Paul L. Hartnett, Leominster, Mass.
Application September 14, 1950, Serial No. 184,815
1 Claim. (Cl. 299—17)



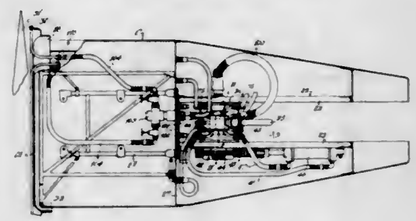
An article of manufacture comprising a hollow sipping stem and a series of radially extending flat stirring blades at one end only of said stem, said blades being convex at the outermost radial edges and flat and co-planar at the extreme ends thereof at the intake end of the hollow stem to form a series of crushing or muddling edges arranged radially of the stem, said flat co-planar edges including a central ring-like connection forming the termination of the sipping stem.

2,613,108
FLUID DISPENSER
George F. Kraus, Camden, N. J.
Application April 1, 1949, Serial No. 85,007
6 Claims. (Cl. 299—25)



1. In an automatic dispensing device the combination of a supporting frame, clockwork mechanism supported by said frame including gear reduction mechanism and a shaft slowly driven thereby, said shaft having a screw threaded portion, a nut threaded upon said shaft for movement therealong as the shaft rotates, a spring normally rotatably urging said nut to rotate in one direction upon said shaft, a fluid dispenser carried by said frame having a fluid releasing member, movable means carried by the frame to operate said member, said nut having means associated therewith to engage and operate the movable means upon rotation of the nut by said spring, and detent means to restrain rotation of the nut until said shaft has been turned to a predetermined extent sufficient to feed the nut along the screw threaded portion of the shaft out of the path of said detent means.

2,613,109
APPARATUS FOR DISTRIBUTING FLUENT MATERIALS
Walter Walker, Short Hills, N. J.
Application January 2, 1947, Serial No. 719,894
4 Claims. (Cl. 299—41)

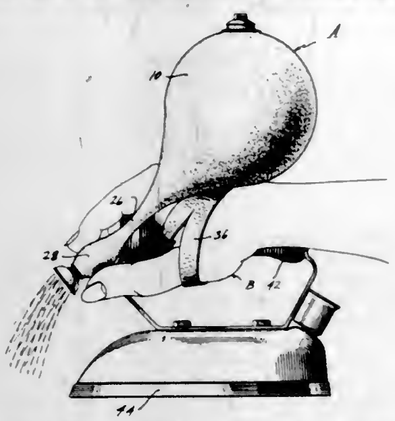


1. Apparatus of the character described comprising a base, a frame mounted thereon for rotation about a substantially vertical axis and to swing about a horizontal axis that is disposed substantially in a common plane with said vertical axis, power-driven means on said frame for forcing air outwardly, a gear connected to said frame to rotate about said horizontal axis, a rack bar meshing with said gear, a second gear connected to said frame to rotate about said vertical axis, a second rack bar meshing with said second gear, and a fluid pressure operated device for actuating each of said rack bars.

2,613,110
HAND-CARRIED SPRINKLER
Arnold Spingarn, Philadelphia, Pa.
Application August 6, 1949, Serial No. 108,941
1 Claim. (Cl. 299—91)

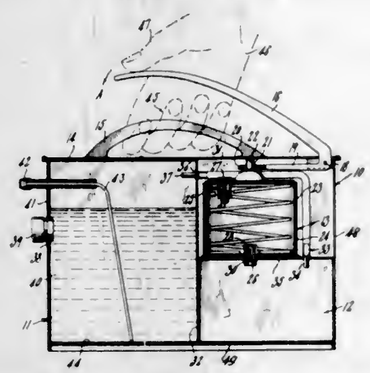
A clothes moistening device comprising a flexible bulb, a spray nozzle attached to said bulb

through an elongated member, said elongated member being adapted to be compressed by the fingers of the user whereby fluid in said first named bulb will be ejected, an endless strap to



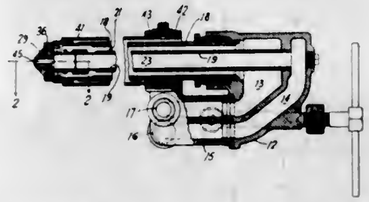
which said first named bulb is attached, and said strap being bifurcated along a portion thereof whereby the users thumb may pass through said bifurcation.

2,613,111
SPRAYING APPARATUS
Frederick Freund, New York, and Illo Kreismann, Kew Gardens, N. Y., assignors, by mesne assignments, to said Kreismann
Application March 8, 1946, Serial No. 652,953
3 Claims. (Cl. 299—96)



1. A spraying apparatus comprising a tank adapted to contain liquid and having a bottom, an air compression chamber including valve means, air compression means positioned substantially in alignment with said chamber and adapted to communicate through said valve means with the latter, nozzle means having an extension and projecting from without said tank therewithin, a handle lever operatively connected with said air compression means, tubular conduit means providing communication between said chamber and said tank, a tube extending from adjacent said bottom of said tank into said nozzle extension and forming between the latter and said tube a passageway, one end of said tubular conduit means being positioned substantially at the level of said passageway and being substantially aligned with the latter, whereby upon operation of said handle lever said air compression means will be actuated to force compressed air through said valve means into said chamber for precompression therein and thence through said one end of said tubular conduit means into said tank and nozzle means to thereby provide a substantially uninterrupted flow of liquid through said tube and of compressed air out of said nozzle means, and a housing having a top wall, said chamber and said compressing means being positioned in side by side relation to said tank and within said housing, said handle lever being arranged for movement on said top wall and extending through an opening thereof to said air compressing means for operating the same, said air compressing means forming a bellows.

2,613,112
ATOMIZER
James Fletcher, Akron, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application April 30, 1947, Serial No. 744,891
14 Claims. (Cl. 299—140)

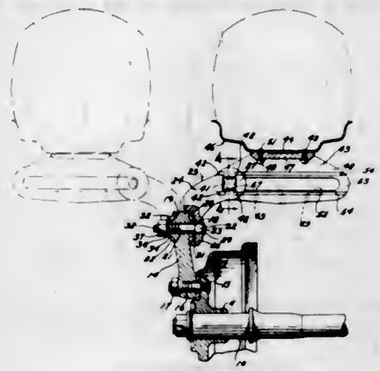


1. Apparatus for spraying liquid in a fan-shaped pattern comprising a sprayer plate having a rearward and a forward surface transversely arranged relative to a common rectilinear axis, means defining a fluid directing path through said plate from one of said surfaces to the other, said path being of symmetrical formation relative to a median plane containing said axis and providing a total flow area throughout of greater dimension in said median plane than in a plane normal thereto, said plate having fluid inlet ports extending partially therethrough from said rearward surface and individually forming junctures with said fluid directing path, said ports being arranged in spaced groups respectively at opposite sides of said median plane and being cylindrically formed throughout about straight-line axes parallel to said normal plane, each port of each of said groups opening into said fluid directing path intermediate opposite ends of said path and at an acute angle relative to said median plane.

2,613,113
ADJUSTABLE WHEEL ASSEMBLY
William G. Spurlin, Dearborn, and Harold L. Brock, Detroit, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application July 26, 1949, Serial No. 106,834
10 Claims. (Cl. 301—9)

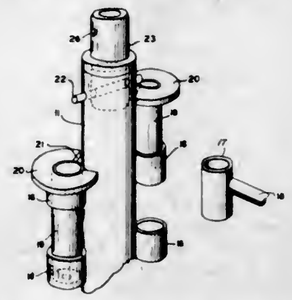
2. In an adjustable wheel assembly, a wheel support, a plurality of individually reversible spokes each adapted to be independently mounted upon said wheel support in reversed positions, a tire-carrying rim, a plurality of axially slotted brackets secured to said rim and supported upon the outer ends of said spokes, and cooperating means between said spokes and the slotted brackets secured to said tire-carrying rim providing a predetermined range of axial adjustment therebetween for each position of said spokes, said

range of axial adjustment of the rim relative to each spoke being at least as large as the dis-



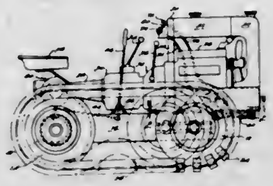
tance between the two positions of the outer ends of the spokes obtained when said spokes are reversed.

2,613,114
SCAFFOLD CONNECTION
Robert E. Hagan, Youngstown, Ohio
Application October 22, 1949, Serial No. 123,061
3 Claims. (Cl. 304—40)



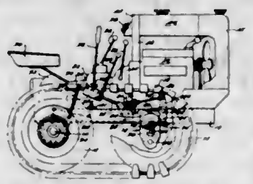
1. In a tubular sectional scaffolding of the type comprising spaced vertically disposed frames having spaced pairs of rigidly connected upstanding posts, diagonal brace members for connecting the top portions of certain of said frames to the bottom portions of certain others of said frames, and detachable means for releasably connecting said brace members to said frames; the improvement in said detachable means comprising spaced vertically aligned pairs of tubular collars rigidly secured to and directly in contact with the outer surface of said posts near both the top and bottom ends thereof, the space between said collars being substantially greater than the internal diameter thereof, vertically aligned elongated tubular fittings of the same cross-section as said collars rigidly secured at each end of said diagonal brace members and adapted to be received between the collars of each pair, said fittings being substantially equal in length to the length of said space, pins slidably received in said collars and adapted to be inserted simultaneously in said collars and fittings to contact said members to said spaced frames, and means limiting the sliding movement of said pins whereby each pin is at all times inserted in a collar and thus held against separation from the adjacent post, the outside diameter of said pins being substantially equal to the inside diameters of said tubular collars and fittings.

2,613,115
TRACK-LAYING TRACTOR
Harry V. Tutton, Detroit, Mich., assignor to Sherman Products Inc., Royal Oak, Mich.
Application March 15, 1947, Serial No. 734,946
9 Claims. (Cl. 305—8)



1. In a tractor vehicle, a pair of vehicle supporting wheels at each side of the vehicle, an endless track trained over and around each pair of wheels with its lower run unsupported between said wheels, a mounting for one wheel in each pair permitting bodily movement thereof longitudinally of said vehicle and relative to the other wheel with which it is associated, mechanism for urging said movable wheels constantly away from the other of said wheels, said mechanism including levers pivoted on the vehicle and connected to said movable wheel mountings in such manner as to be rocked about said pivots by movement of said mountings in a direction to loosen said endless belts, spring means confined by said levers and acted upon simultaneously by the latter to yieldably resist movement by said mountings in said mentioned direction, said spring means exerting less force tending to separate the wheels on each side of said vehicle than that force required to support either side of said vehicle solely through engagement of the unsupported lower run portion of the track on the same side of said vehicle with an object over which said lower run travels, means for imposing a preload tension on said spring means including a rotatable shaft having a screw-threaded connection with the spring means, whereby at least one end of said spring means moves axially on the shaft when the latter is rotated, a driven worm gear loosely mounted on the shaft, a driving worm in mesh with said worm gear, clutch means rotatably fixed but slidable on said shaft and engageable with the worm gear to lock the same for rotation with the shaft, and separate means for manually actuating said worm and said clutch means.

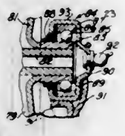
2,613,116
TRACK-LAYING TRACTOR
Harry V. Tutton, Detroit, Mich., assignor to Sherman Products Inc., Royal Oak, Mich.
Application June 18, 1947, Serial No. 755,395
18 Claims. (Cl. 305—8)



1. In a tractor vehicle, a pair of wheels at each side of the vehicle; an endless track trained over each pair of wheels with its lower run unsupported between said wheels, at least one wheel in each pair being mounted for limited movement

longitudinally of the vehicle and the mounting for each of such wheels comprising a wheel supporting means, a pair of pivoted arms, one of said arms carrying said wheel supporting means and said arms collectively constructed and arranged to move the wheel supporting means longitudinally of the vehicle, and means coactive with said arms for restricting the loci of points made by the wheel-supporting means substantially to a rectilinear line; and weight means connected to the arm which carries said wheel supporting means, said weight means actuated by movement of said wheels longitudinally of the vehicle and normally urging the wheels in a direction to tauten such endless tracks and operative to resist travel of said wheels in a direction to loosen said tracks, said weight means exerting less force tending to tauten said tracks than that force required to support the vehicle solely through engagement of the unsupported lower run portions of the tracks with an object or objects over which said portions travel.

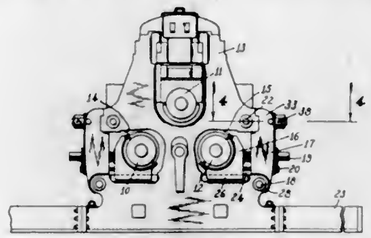
2,613,117
CONVEYER BELT SUPPORTING MECHANISM
Arthur L. Lee, Upper Arlington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application March 8, 1945, Serial No. 581,630, now Patent No. 2,592,915, dated April 15, 1952. Divided and this application July 26, 1947, Serial No. 763,822
10 Claims. (Cl. 308—20)



1. A belt idler mechanism including a roller and a live hollow shaft rigidly attached thereto, spaced anti-friction bearing means for opposite ends of said shaft including inner and outer races, separate housings for said spaced bearing means, and means for lubricating one of said bearing housings direct, said hollow live shaft communicating with the housing of the other bearing to communicate lubricating material thereto which is fed to said one bearing housing, said one housing being formed near the inner race of the adjacent bearing to restrict the flow of lubricating fluid to its bearing which is fed to said one housing thereby encouraging it to flow to said other bearing housing through said live hollow shaft.

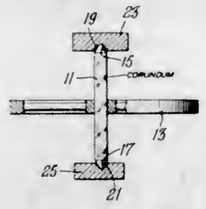
2,613,118
CANE MILL
Philip V. Tippet, Ansonia, Conn., assignor to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a corporation of Connecticut
Application March 7, 1947, Serial No. 732,967
10 Claims. (Cl. 308—22)

1. In a cane mill, the combination of a housing having a laterally facing open-mouthed recess leading to a side edge of the housing, a cap hinged to the housing below said recess and swingable on its hinge to close said recess and having its upper end abutted against the housing above the recess, and means providing a detachable fastening between the upper end of said cap and the housing, the housing having provision for supporting said cap when the latter is swung downwardly, said recess having a floor portion for supporting a bearing box, and said cap having a portion which when the cap is in



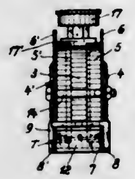
the lowered position serves as a continuation of said floor portion onto which the bearing box can be moved.

2,613,119
PIVOTED DEVICE
Arthur K. Seemann, Manhasset, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application October 19, 1946, Serial No. 704,350
10 Claims. (Cl. 308—159)



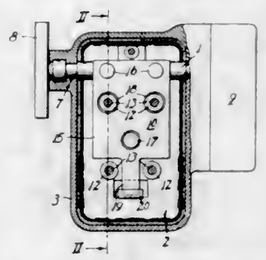
1. A unitary shaft of unicrystalline corundum having tapered pivots at the ends thereof provided with smooth, scratch-free, flame-glossed surfaces, and a machine element mounted on said shaft between said ends.

2,613,120
HOUSING FOR ANTIFRICTION BEARINGS
Julius Lanvermeyer, Melle, Germany
Application September 14, 1949, Serial No. 115,597
In Germany January 31, 1949
4 Claims. (Cl. 308—207)



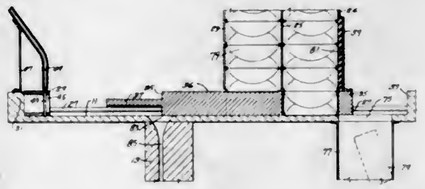
1. A housing for antifriction bearings of the type having a base and an outer bearing race, including a separate independent tubular retaining ring encircling said bearing race, a pair of sheet metal elements formed so as to completely encircle the outside of said retaining ring, each of said sheet metal elements having a foot portion, said sheet metal elements being disposed one at each end of the retaining ring with the foot portions arranged in symmetrical spaced relationship so that each of the foot portions forms a longitudinally extending side of the base of the housing.

2,613,121
MOTOR
John R. Olshei, Buffalo, and Raymond Deibel, East Aurora, N. Y., assignors to Trico Products Corporation, Buffalo, N. Y.
Application March 25, 1949, Serial No. 83,486
11 Claims. (Cl. 309—22)



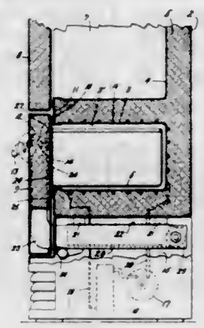
1. A fluid motor comprising an arcuate chamber, an oscillatory shaft journaled substantially concentrically therein, a piston oscillatable in the chamber in fluid sealed contact with the chamber wall, and a driving connection between the piston and the shaft constituting a driving coupling between the two for angular movement as a unit and embodying parts slidable in a plane radially of the shaft to enable the piston to adjust itself to any misalinement between the shaft and the chamber.

2,613,122
OPERATING MECHANISM FOR VENDING MACHINES
Homer G. Wells, Memphis, Tenn.
Application August 6, 1948, Serial No. 42,834
7 Claims. (Cl. 312—67)



1. Operating mechanism for a vending machine, which comprises: a plurality of vertically disposed chutes adapted to receive merchandise packages and having open bottoms for gravity discharge of said merchandise packages therefrom, said chutes being positioned in alinement, a slideway longitudinally alined with said chute alinement spaced below said chutes and longitudinally extending oppositely beyond said chutes, a conveyor slide mounted on said slideway for sliding movement longitudinally of said slideway beneath said chutes, said conveyor slide having a merchandise supporting upper face and a merchandise receiving aperture, said conveyor slide having a vertical flange projecting upwardly from one end thereof, said aperture lying adjacent said flange and between said flange and said face, said slideway having a discharge opening therethrough positioned in the slideway extension adjacent said flange and aperture beyond said chutes, means for moving said slide longitudinally along said slideway in one direction to position said aperture over said discharge opening for gravity discharge of merchandise from said aperture into said opening, said face underlying said chutes during said movement to retain said merchandise therein, spring means urging opposite movement of said slide along said slideway effective on release of said moving means, said opposite movement of said slide moving said aperture to underlie one of said chutes, said chutes including vertical wall means positioned transverse said slideway, the said wall means of the chute most remote from said opening extending downwardly below the level of the upper end of said flange, the lower edge of the remaining said wall means being spaced above said slide for the passage of said flange therethrough, said opposite movement of said slide moving said flange into contact with merchandise contained in a chute to stop said opposite movement and position said aperture below said merchandise containing chute.

2,613,123
FROZEN FOOD DRAWER FOR REFRIGERATORS
Ray E. Patten, deceased, late of Westport, Conn., by Carl L. De Pue, executor, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application April 16, 1949, Serial No. 87,984
1 Claim. (Cl. 312—214)

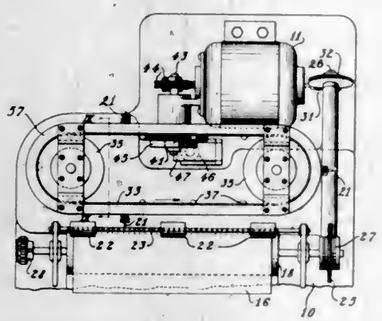


A refrigerator cabinet including an outer case, a spaced inner wall formed to provide a compartment, means for refrigerating said compartment, a machinery compartment, a drawer adapted to move horizontally within said first-named compartment in spaced relationship thereto, horizontal supports mounted in said machinery compartment, and a plurality of L-shaped brackets fixedly secured to said drawer, each of said brackets having one leg extending into said machinery compartment and into sliding engagement with one of said horizontal supports for slidably maintaining said drawer horizontal and in spaced relationship to said inner wall.

2,613,124
FACSIMILE RECORDER WITH STYLI ACTUATED OR PROPELLED BY A BELT
Austin G. Cooley, New York, and George B. Busch, Brooklyn, N. Y., assignors to Times Facsimile Corporation, New York, N. Y., a corporation of New York
Application June 27, 1946, Serial No. 679,703
3 Claims. (Cl. 346—49)

1. In a facsimile recorder of the character described, feeding means for a continuous length of recording paper, a travelling belt having a straight section in opposed relation to the recording area of said length of recording paper, said belt comprising an endless flexible metallic strip provided with integral teeth along one edge

thereof, recording styli moved successively by said belt across the recording area, a drive gear



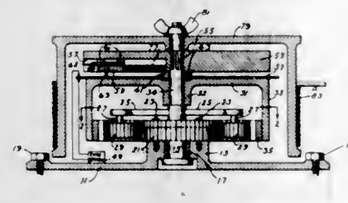
engaging the teeth in said belt and motor means for driving said gear.

2,613,125

VELOCITY RECORDER

Joseph Brown, Philadelphia, Pa.

Application September 16, 1949, Serial No. 116,181
13 Claims. (Cl. 346—73)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Velocity-recording mechanism comprising a base member, a shaft carried rotatably in a bearing in said member, a drum reel secured to said shaft, a disc carried by said shaft, a mass carried by and slidable radially relative said disc, means to constrain radial movement of said mass, recording means on said mass, a table mounted rotatably on said shaft and adapted to carry a calibrated card to be scored by said recording means, and a speed-reducing linkage coupling said shaft and said table.

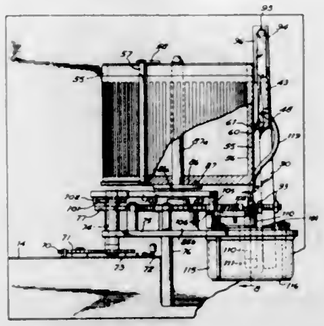
2,613,126

RECORDING APPARATUS FOR RECORDING GAS CONCENTRATIONS IN THE ATMOSPHERE

Arnold O. Beckman, Altadena, and James D. McCullough, Los Angeles, Calif.; said McCullough assignor to said Beckman

Application February 18, 1946, Serial No. 648,496
4 Claims. (Cl. 346—75)

1. In a device for recording at a recording station a variable phenomenon by use of a record member having a component chemically reactive with a chemical-containing fluid medium to produce a change in appearance of said record member in the zone of such reaction, the amount of chemical in said fluid medium varying from time to time with the phenomenon to be recorded, the combination of: means for moving said record member relative to said recording station; a fluid-expelling member providing a space for receiving said fluid medium; actuating means for moving said fluid-expelling member toward and away from said record member to transfer said fluid medium from said fluid-expelling member to said record member;



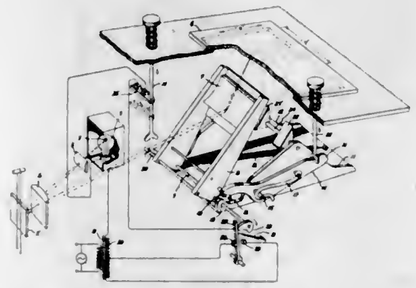
and means for operatively connecting said means for moving said record member and said actuating means to apply increments of said fluid medium to said record member at positions spaced from each other along said record member.

2,613,127

OPTICAL SYSTEM FOR OSCILLOGRAPHS

Kenneth R. Geiser, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application May 23, 1950, Serial No. 163,697
15 Claims. (Cl. 346—109)



1. An optical system for an oscillograph comprising a line source of light, a light sensitive member, a concave cylindrical surfaced light reflecting and focusing member located to receive light from said line source and to project and focus the light as a spot upon said light sensitive member, means for deflecting the light from said light source in a direction parallel to a focal line lying in the optical plane of said light reflecting and focusing member thereby to move the light spot projected from said light reflecting and focusing member along one axis of said light sensitive member, and means to propel said light reflecting and focusing member to travel through an arcuate path during a short interval of time, said light reflecting and focusing member intercepting the light from said light source during its travel to re-deflect the projected and focused light spot along a coordinate axis of said light sensitive member.

CHEMICAL

2,613,128

VAT DYEING COMPOSITIONS, INCLUDING A MIXTURE OF COBALT PHTHALOCYANINE DYES

Fritz Baumann, Leverkusen-Bayerwerk, and Berthold Bienert, Leverkusen-Wiesdorf, Germany, assignors to Farbenfabriken Bayer, Leverkusen, Germany

No Drawing. Application March 11, 1949, Serial No. 81,025. In Germany October 29, 1948
2 Claims. (Cl. 8—28)

1. A vat dyeing composition comprising a cobalt phthalocyanine free from hydrophilic groups, a cobalt phthalocyanine monosulphonic acid, sodium hydrosulphite, water, and caustic soda.

2,613,129

MIXTURE OF PHTHALOCYANINE VAT DYES AND PROCESS OF MAKING THE SAME

William B. McCormack and Frederic B. Stilmar, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 27, 1951, Serial No. 217,888
4 Claims. (Cl. 8—28)

1. A coloring composition of matter comprising a mixture of cobalt phthalocyanine and phosphonylated cobalt phthalocyanine, the average composition of the mixture corresponding to the formula

$$\left[\text{CoPc}\right]_{1-x}\left[\text{P(OH)}_2\right]_x$$

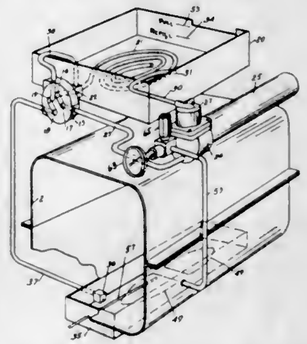
wherein CoPc represents the molecule of cobalt phthalocyanine, while x has a value between 0.2 and 0.4.

2,613,130

STERILIZER

Raymond L. Jewell and George J. Dyckes, Erie, Pa., assignors to American Sterilizer Company, Erie, Pa., a corporation of Pennsylvania

Application January 21, 1949, Serial No. 71,808
6 Claims. (Cl. 21—96)



1. In a sterilizer, a pressure sterilizing chamber for receiving material to be sterilized and a water supply for generation of steam, means for heating the water supply received in the chamber to a sterilizing temperature and pressure above atmospheric, a water reservoir, a water measuring chamber, a condenser coil discharging to the reservoir, a valve control connecting the measuring chamber to the reservoir and the lower part of the sterilizing chamber to the condenser whereby the measuring chamber is filled and the steam and water in the sterilizing chamber is discharged to the condenser and alternatively connecting the measuring chamber to the sterilizing chamber and closing the connection to the condenser whereby the sterilizing chamber is supplied with the measured quantity of water.

2,613,131

PROCESS OF REDUCING THE CORROSION OF FERROUS METALS BY AMMONIACAL SOLUTION AND CORROSION INHIBITOR THEREFOR

Marion D. Barnes, Boyd L. Embrey, and Russell E. Koons, El Dorado, Ark., assignors to Lion Oil Company, El Dorado, Ark., a corporation of Delaware

No Drawing. Application October 27, 1950, Serial No. 192,628
18 Claims. (Cl. 23—1)

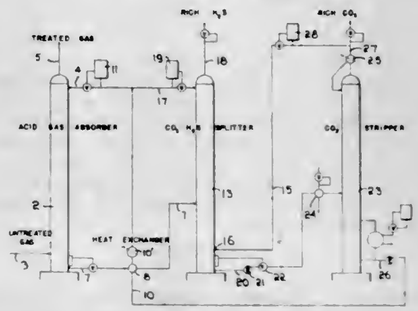
1. Process of reducing corrosion of a ferrous metal by an ammoniacal solution of a nitrogen compound, which comprises incorporating in said solution a compound having an SH group and an OH group together with an inorganic trivalent arsenic compound, the amounts of said compounds being sufficient to substantially reduce the rate of corrosion of a ferrous metal by the solution, and contacting said solution with said ferrous metal.

2,613,132

PROCESS FOR SELECTIVE SEPARATION OF ACIDIC GASES

Arthur J. L. Hutchinson, Houston, Tex., assignor to Fish Engineering Corporation, Houston, Tex., a corporation of Delaware

Application April 21, 1949, Serial No. 88,788
8 Claims. (Cl. 23—2)



1. A method of treating a gaseous mixture containing acidic gases such as hydrogen sulphide and carbon dioxide comprising the steps of, contacting said gas with an absorbent that is composed of a polyhydric alcohol and an aliphatic amine to simultaneously separate the hydrogen sulphide and carbon dioxide from the mixture, treating the solution of absorbent, hydrogen sulphide and carbon dioxide by passing a stream of relatively pure carbon dioxide gas therethrough

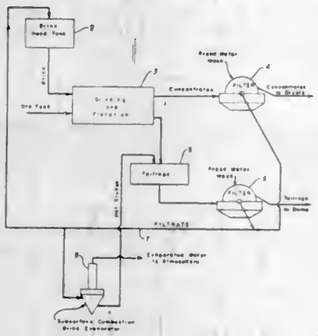
to remove hydrogen sulphide and countercurrently washing the hydrogen sulphide with fresh absorbent solution and thereafter separating the carbon dioxide from the absorbent.

2,613,133

PROCESS FOR RECOVERING A DESIRED SOLUBLE SALT FROM A SOLID MIXTURE CONTAINING SAME

Leslie D. Anderson, Carlsbad, N. Mex., assignor to Potash Company of America, a corporation of Colorado

Application January 18, 1950, Serial No. 139,170
7 Claims. (Cl. 23—89)



1. A process for separating a desired component salt from admixture in a water-soluble ore, which comprises the steps of mixing the finely divided ore with a solution saturated with the component salts comprising said ore, removing an undesired component salt from said ore by flotation with the desired salt formed as a concentrate, separating the said other salt from solution entrained therewith after its removal from the flotation stage, separating the desired salt from the saturated solution in the concentrate, washing at least one of the component salts so separated with water and combining said wash water with the solution previously separated from at least one of the salts, evaporating a portion of the liquid mixture so formed to a concentration such that at a determined temperature of evaporation an amount of water is removed which is substantially equivalent to the amount of water used in said washing operation, thereby forming a salt sludge while preventing crystallization and precipitation of the desired component salt from solution, returning said sludge to one of said prior separation stages to separate associated solution from its solids content, and recycling the solution remaining after said evaporation for mixing with the ore prior to flotation, so that any crystallization of the desired component salt will occur not later than discharge from the flotation stages and will thus accompany the concentrates.

2,613,134

OXIDATION OF PHOSPHORUS WITH STEAM

Kelly L. Elmore, Sheffield, Ala., assignor to Tennessee Valley Authority, a corporation of the United States

Application September 27, 1950, Serial No. 186,979
4 Claims. (Cl. 23—165)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

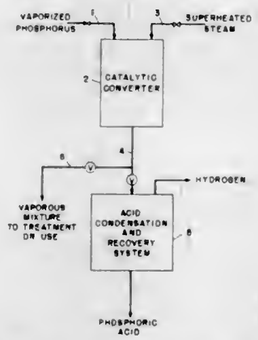
3. A process for the oxidation of phosphorus with steam which comprises mixing superheated steam and phosphorus vapor in proportions in the range from about 16:1 to 30:1; passing the resulting mixture of vapors over and in intimate contact with a catalyst comprising a material selected from the group consisting of copper, copper phosphide, platinum, and the platinum phosphides supported on a material selected from the group consisting of aluminum orthophosphate, aluminum metaphosphate, aluminum phosphide, and mixtures thereof in a reaction zone; maintaining the temperature of the catalyst and vapors in contact therewith in the range from about 650° to 900° C.; maintaining the rate of flow of said vapors over said catalyst in the range from about 500 to 2000 volumes of vapor per volume of catalyst per hour; and withdrawing a complex vaporous equilibrium mixture, in which substantially all phosphorus is oxidized to pentavalent and trivalent states, from said reaction zone.

2,613,135

OXIDATION OF PHOSPHORUS WITH STEAM

John F. Shultz, Pittsburgh, Pa., assignor to Tennessee Valley Authority, a corporation of the United States

Application September 28, 1950, Serial No. 187,337
7 Claims. (Cl. 23—165)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



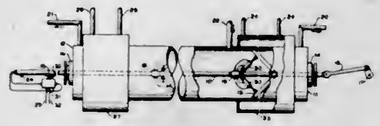
1. A process for the oxidation of phosphorus with steam which comprises mixing superheated steam and phosphorus vapor in proportions in the range from about 16:1 to 35:1; passing the resulting mixture of vapors over and in intimate contact with a catalyst comprising a material selected from the group consisting of copper, platinum, their phosphides, and mixtures thereof supported on a material selected from the group consisting of pyrophosphates of titanium and zirconium in a reaction zone; maintaining the temperature of the catalyst and vapors in contact therewith in the range from about 600° to 900° C.; maintaining the rate of flow of said vapors over said catalyst in the range from about 500 to 7500 volumes of vapor per volume of catalyst per hour; and withdrawing a vaporous mixture of reaction products, in which substantially all phosphorus is present in pentavalent and trivalent states, from said reaction zone.

2,613,136

FRACTIONAL CRYSTALLIZER

Dwight L. McKay, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 21, 1949, Serial No. 134,225
8 Claims. (Cl. 23—273)



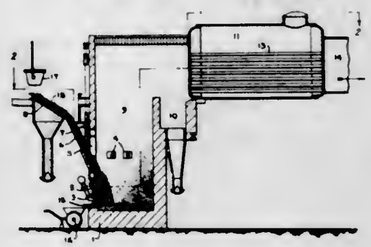
1. A fractional crystallization apparatus which comprises, in combination, an elongated enclosed container, a product outlet adjacent each end of said container and a feed inlet intermediate said ends, means for adding heat to said container adjacent one end thereof, means for abstracting heat from said container along a portion thereof between said feed inlet and the unheated end, and means for moving solid granular material through said container from the cooled to the heated end which comprises a reciprocating support extending axially through said container, a plurality of foldable perforate conveyor flights hinged at spaced intervals to said support, said foldable conveyor flights being adapted to close on the intake stroke and open on the pump stroke of said flights, and a motor pivotally attached to said support and said conveyor flights for applying impetus to the closing and opening of said conveyor flights.

2,613,137

FURNACE FOR THE RECOVERY OF METAL OXIDES

Hans-Joachim Hellwig, Oker/Harz, Germany, assignor to Unterharzer Berg- und Huttenwerke G. m. b. H., Oker/Harz, Germany

Application September 8, 1949, Serial No. 114,657
In Germany October 1, 1948
5 Claims. (Cl. 23—277)



1. In a furnace for the recovery of volatile metal oxides, a water jacket surrounding substantially one-half of the bottom portion of the furnace, a feed opening in a wall of the furnace above said water jacket, a chute extending downwardly towards said opening and being inclined to direct the charge into the preheated one-half of said bottom portion, a slide closure in said opening above said chute adjustable to control the quantity of charge flowing through said opening on said chute, the top portion of said furnace being enlarged to form a chamber for the flue gases, a horizontal discharge flue connected to said enlarged top portion, a boiler in said discharge flue of which the horizontal heating flues freely extend into said enlarged top portion and a vertical collector shaft for the flue dust attached to the bottom portion of said chamber and located between the latter and the boiler.

2,613,138

GAS-SOLID CONTACT REACTOR

Willem van Loon, Sittard, Netherlands, assignor to De Directie van de Staatsmijnen in Limburg, handelend voor en namens den Staat der Nederlanden, Heerlen, Netherlands

Application February 28, 1949, Serial No. 78,686
In the Netherlands March 8, 1948
2 Claims. (Cl. 23—284)



1. Apparatus for creating intimate contact between finely divided solid substances and gases in carrying out chemical reactions which comprises a series of vertically superimposed enclosed chambers, each chamber having a bottom at least a portion of which constitutes a plane inclined at an angle to the vertical, tubes fixed into the bottoms of each of said chambers at the bases of said inclined planes with the longitudinal axes of the tubes at an angle to the vertical and at an angle to said inclined planes, said tubes constituting communicating passages between adjacent chambers, and at least one of said chambers having a vertical tube descending from the bottom thereof at a point appreciably distant from the point of entrance of the inclined tube into said chamber, said vertical tube having its debouchment above the inclined plane portion of the underlying chamber.

2,613,139

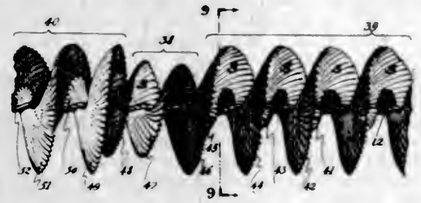
CONVOLUTED ORNAMENT

Charles A. Herold and Burt Lee, New York, N. Y., assignors to Paper Novelty Manufacturing Company, Inc., Brooklyn, N. Y., a corporation of New York

Application January 28, 1950, Serial No. 141,087
4 Claims. (Cl. 41—10)

3. A decorative article comprising a pair of wires separated by a strip of sheet material, said wires being disposed lengthwise with respect to said strip and offset laterally from the longitudinal centerline thereof equally distant in the

same direction, and said strip and said wires being twisted together with portions of said strip



extending radially from the axis of the twist forming two concentric helixes of different sizes staggered axially.

2,613,140
SLIP-ON ORNAMENT
Henry A. Hart, Bayside, N. Y., assignor to Paper Novelty Manufacturing Company, Inc., Brooklyn, N. Y., a corporation of New York
Application May 20, 1950, Serial No. 163,289
4 Claims. (Cl. 41—10)



1. An ornament of the class described, comprising a sheet of material having a symmetrical periphery and being folded on a median line, thereby providing similar half portions, each of said portions having a tab integral therewith, the tabs being folded toward each other and being perforated and adapted to overlap for registering the perforations of the tabs.

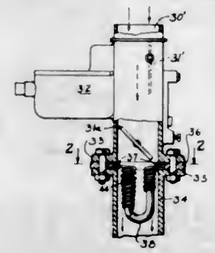
2,613,141
CHEMICAL BRIGHTENING OF ALUMINUM
William C. Cochran, Brussels, Belgium, assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application July 29, 1949, Serial No. 107,645
5 Claims. (Cl. 41—42)

1. A method for chemical brightening of aluminum which comprises immersing an aluminum article in a solution consisting essentially of about 60 to 80 per cent phosphoric acid, about 1 to 10 per cent hydrogen peroxide and about 15 to 35 per cent water, referred to the total weight of the aforesaid components, the solution being maintained at a temperature above about 70° C.

2,613,142
ALCOHOL FUEL GEL
Sol B. Wicser, Washington, D. C.
No Drawing. Application May 11, 1948, Serial No. 26,470
6 Claims. (Cl. 44—7)

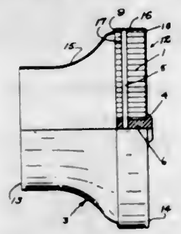
1. A combustible gel comprising a volatile combustible liquid and a gelating agent therefor, said combustible liquid being composed of at least 75% of commercial alcohol having 1–3 carbon atoms, said commercial alcohol consisting of at least 70% of alcohol, the balance of said commercial alcohol being substantially water, said combustible liquid being gelled with 3–50% by weight thereof of methyl cellulose.

2,613,143
FUEL TREATING DEVICE
William M. Malouf, Los Angeles, Calif., assignor to M-M & M Engineering and Research Corporation, Inc.
Application May 24, 1948, Serial No. 28,941
18 Claims. (Cl. 48—180)



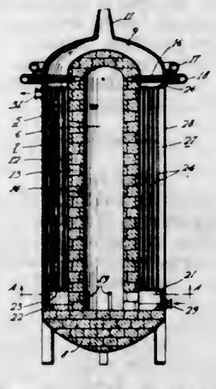
1. A rotatable ball member comprising a diametric bore through said ball, a chordal bore in said ball intersecting said diametric bore, a peripheral recess acting as a vane at the surface of said ball and connected to one end of said chordal bore.

2,613,144
BACKFIRE TRAP
Orson A. Carnahan, Syracuse, N. Y.
Application January 10, 1950, Serial No. 137,800
1 Claim. (Cl. 48—192)



A back fire trap for internal combustion engines comprising in combination, a tubular metal housing provided with a ledge positioned on the interior wall thereof a spaced distance from a terminal edge of said housing, a preformed flame arresting element positioned within said tubular housing in abutment with said ledge comprising a core member formed with a cylindrically shaped body portion, a plurality of convolutions of a transversely corrugated thin metal strip and a spacer strip of thin material positioned in contact with a side thereof spirally wound about the cylindrical body portion of said cylindrical core member, a plurality of passages each extending in a radial direction in alignment through said core member and convolutions of said strips and having a length substantially equal to the diameter of said flame arresting element, said passages being angularly disposed with respect to one another and offset a spaced distance along the axis of said core and convolutions, a reinforcing member positioned within each of said passages in frictional contact with the wall thereof and extending between the peripheral surfaces of said flame arresting element to maintain said core and strips in the aforesaid pre-formed arrangement, and an annular rim extending inwardly adjacent said terminal edge of the housing and over the edge of said flame arresting element for maintaining said element in abutment with said ledge.

2,613,145
APPARATUS FOR PRODUCING SYNTHESIS GAS
Clarence L. Crawford, Plum Township, Allegheny County, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application December 30, 1948, Serial No. 68,280
1 Claim. (Cl. 48—196)



An apparatus for producing synthesis gas by conversion of hydrocarbons which comprises in combination in a pressure-tight vessel, an elongated conversion tube centrally and axially located in said vessel, closed at its upper and lower ends and insulated over substantially all of its inner surface by insulating heat retentive walls, said elongated conversion tube containing at least one inlet conduit at the top thereof extending from without the said vessel and a plurality of slots disposed in the bottom of and extending through the side wall of said conversion tube, cooling means comprising a lower tube sheet, a water wall beneath said lower tube sheet and surrounded by the lower portion of said pressure-tight vessel, vertical heat exchange tubes open at each end, an upper tube sheet, and a heat exchange chamber, said cooling means surrounding said conversion tube within said reaction vessel with its said lower tube sheet positioned at a higher vertical point than but immediately adjacent to said slots, and an annular chamber surrounding said conversion tube closed at the lower end by an insulating heat retentive wall and bounded also by the insulating heat retentive side wall of the lower end of said conversion tube containing said slots, by said water wall, and by said lower tube sheet, said annular chamber being in communication with the interior of said conversion tube by means of said slots and with said heat exchange tubes, whereby hot reaction gases formed in said conversion tube flow downwardly through said conversion tube while they are maintained at an elevated equilibrium temperature by said insulating heat retentive walls of said conversion tube and pass from said conversion tube through said slots to said annular chamber while avoiding any substantial transfer of heat by radiation from said conversion tube to said cooling means and then flow upwardly through said cooling means.

2,613,146
UNSHEATHED SAFETY EXPLOSIVE COMPOSITION
Arthur J. Lowe, West Kilbride, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application March 26, 1951, Serial No. 217,677. In Great Britain May 5, 1950
7 Claims. (Cl. 52—7)

1. Safety explosive compositions consisting of a mixture of trinitrotoluene, ammonium nitrate, sodium nitrate, and sodium chloride as major ingredients, having a bulk density of 0.90 to 1.05 gram per cc. at 25 lbs. pressure per sq. in., and having a calculated oxygen balance between —0.5 and +3 grams oxygen per 100 grams of the composition characterized in that the percentage by weight of trinitrotoluene is between 11 and 22%, of ammonium nitrate is between 22 and 36%, of sodium nitrate is between 12 and 27%, and of sodium chloride is between 29 and 35%.

2,613,147
METHOD OF PRODUCING A PLANT FOOD AND PLANT STIMULANT, AND UTILIZATION THEREOF
William L. Owen, Baton Rouge, and Albert J. Isacks, Houma, La.
No Drawing. Application May 6, 1949, Serial No. 91,868
15 Claims. (Cl. 71—26)

1. The method of treating dewaxed sugar cane mud to adapt it as a plant stimulant and fertilizer, said mud being derived from sugar cane mud which has been dewaxed by the action thereon of a dewaxing solvent, said dewaxing step functioning to decrease the microbial population of the resulting dewaxed mud, said microbial population including species which function as a plant food and a plant stimulant, comprising the dewaxed sugar cane mud with between 2% and 10% of a volatile organic solvent having little germicidal effect on the microbial population of the mud, and retaining a substantial proportion of said solvent in the mud.

2,613,148
METHOD OF ALLOYING COPPER AND IRON
Christopher H. Audette, Minneapolis, Minn.
No Drawing. Application October 11, 1950, Serial No. 189,680
2 Claims. (Cl. 75—129)

1. The method of alloying copper and steel, which comprises heating said steel to approximately 2860 degrees Fahrenheit to liquify same, adding to said liquified steel said copper and a relatively small quantity of copper sulphate, and agitating said ingredients while all three are in a liquid state.

2,613,149
DIAZOTYPE PHOTOPRINTING MATERIAL
Henry C. Unkauf, Endicott, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 29, 1947, Serial No. 782,967
17 Claims. (Cl. 95—7)

1. A diazotype sensitizing solution for water-repellent vinyl polymer resins of the class con-

sisting of polymers of vinyl chloride and vinylidene chloride, and copolymers of vinyl chloride with vinyl acetate and of vinyl chloride with maleic acid, comprising as the solvent medium thereof, a mixture of a gamma-lactone having 4 to 6 carbon atoms with at least one low boiling ketone, said solution containing a light sensitive diazo compound dissolved in said solvent medium.

2,613,150

METHOD OF MAKING A COLD-MIXING FOOD STARCH POWDER

Alfred A. Halden, New York, N. Y., assignor to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 17, 1949, Serial No. 93,850

8 Claims. (Cl. 99—139)

1. The method of making a cold-mixing food starch powder, which consists in pretreating a starch selected from the class consisting of potato, tapioca and waxy maize to produce an inhibited starch, i. e., a starch characterized by the property that when mixed with water and subjected to normal gelatinizing conditions the bursting of the starch granules will be inhibited and characterized by a reduction of the natural rubbery cohesiveness of the starch when in a gelatinized state, in subjecting said inhibited starch in an aqueous medium to the steps of gelatinization, drying on heated drums and comminuting the drum dried starch powder, and in adding sugar to and dissolving the sugar in the aqueous suspension of said inhibited starch prior to the drying step, the dried inhibited starch-sugar mix obtained in the drum drying step being characterized by being relatively brittle and easily removable from the drum.

2,613,151

METHODS OF PROCESSING MEAT PRODUCTS

John S. Forsyth, Chicago, Ill., assignor to Wilson & Co., Inc., a corporation of Delaware

No Drawing. Application June 30, 1950, Serial No. 171,567

10 Claims. (Cl. 99—159)

1. The method of curing meat products which comprises the steps of immersing the cooked meat products in a dilute solution of sodium nitrite containing from about 50 to about 200 p. p. m. of the nitrite thereby effecting absorption of the nitrite in the meat, and subsequently packing the meat products in dilute vinegar and storing the packed meat products for at least seven days, to effect the curing and coloring of the meat product.

2,613,152

PHONOGRAPH RECORD

Philip C. Doyle, Rocky River, Ohio, and Kenneth H. Rudd, Mount Lebanon, Pa., assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application June 30, 1948, Serial No. 36,296

4 Claims. (Cl. 106—37)

1. A phonograph record in which the binder comprises from 5 to 50 parts by weight of oxidized wax tailings having a softening point of at least about 210° F. and from 50 to 95 parts by weight of a resin selected from the group consisting of shellac, copal resin and a gasoline-insoluble resin obtained by extracting pine wood with a coal tar hydrocarbon solvent, precipitating the gasoline-insoluble fraction by addition of a saturated paraffinic hydrocarbon and separating the precipitated resin by filtration.

2,613,153

REFRACTORY INSULATING BRICK AND METHOD OF MANUFACTURE

William L. Stafford, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

No Drawing. Application May 17, 1949, Serial No. 93,844

12 Claims. (Cl. 106—41)

1. A light weight refractory insulating brick having a density of 60–67 lbs./cu. ft. and substantial volumetric stability up to 3000° F. consisting essentially of Al_2O_3 and SiO_2 in the weight ratio of about 2:1 and having a high content of crystalline mullite, said brick being an unvitrified oxidized and fired reaction product of a uniformly distributed mixture comprising water, finely divided kaolin clay, alumina, combustible material and metallic aluminum.

2,613,154

MIXED BORIDES

Harold R. Montgomery, Niagara Falls, Ontario, Canada, assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

No Drawing. Application May 18, 1950, Serial No. 162,800

12 Claims. (Cl. 106—43)

1. Process of making solid articles of carbon boride and metal boride which comprises heating to a temperature of at least 1900° C. under mechanical pressure of at least 1000 pounds to the square inch a mixture of carbon boride and metal selected from the group consisting of titanium, vanadium, chromium, zirconium, columbium, molybdenum, hafnium, tantalum and tungsten and mixtures thereof, the amount of metal being sufficient to synthesize with the boron in the carbon boride at least 10% and being insufficient to synthesize more than 50% by volume of metal boride selected from the group consisting of TiB_2, VB_2, CrB_2, ZrB_2, CbB_2, Mo_2B_5, HfB_2, TaB_2 and W_2B_5 and mixtures thereof, said carbon boride having at least as much boron as is represented by the formula CB_4, the amount of boron in the mixture being sufficient and the amount of carbon in the mixture being limited so that over and above the carbon in CB_4 and in boride selected from the aforesaid group there will not be present after the synthesis uncombined carbon in excess of 2% by weight of the CB_4 and such excess nor metal carbide in excess of 4% by weight of said article.

2,613,155

VISCOSITY-STABLE CASEIN ADHESIVES

Thomas Aubrey White, Jackson Heights, N. Y., assignor to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 26, 1949, Serial No. 95,580

6 Claims. (Cl. 106—138)

1. A viscosity-stable casein adhesive comprising casein as the adhesive component, a casein solubilizer of which the prime and necessary solubilizing agent is selected from the group consisting of urea and ammonium thiocyanate, the urea and ammonium thiocyanate, singly or in combination, being present in the proportion of at least 50%, based on the dry weight of the casein, such adhesive when mixed with water producing an adhesive paste which is substantially stable and has a working life of at least several months, said adhesive having added thereto an alkaline earth compound in a proportion not more than ten per cent. (10%) in weight based on the dry weight of the casein, the added alkaline earth compound acting to increase the viscosity of the adhesive paste while retaining the stability and long working life thereof.

2,613,156

THERMOPLASTIC ADHESIVE COMPOSITIONS

Ralph C. McGaffin, Plainfield, N. J., and Alfred G. Battaglia, New York, N. Y., assignors to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 21, 1949, Serial No. 106,092

8 Claims. (Cl. 106—170)

1. The method of making a thermoplastic adhesive composition for production of dried adhesive films which are non-tacky at room temperatures but which are activatable to a tacky and adhesive condition by heat, which consists in coalescing a thermoplastic polymeric material and an normally solid plasticizer, and in then emulsifying the resulting coalesced product yielding an emulsion of particles of the plasticized polymeric material, the plasticizer being present in a proportion greater than that which is compatible at room temperatures with the thermoplastic polymeric material to provide two plasticizer parts in the dried adhesive film of the composition, one part, being compatible with the thermoplastic polymeric material, remaining in a state of coalescence with the same and producing particles of plasticized thermoplastic polymeric material, and the other part, constituting an excess incompatible with the thermoplastic polymeric material, separating out from the state of coalescence therewith and forming solid plasticizer particles distributed in the thermoplastic polymeric material.

2,613,157

POLYMERIC PLASTICIZERS

Hogan B. Knight, Philadelphia, Pa., assignor to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application January 13, 1950, Serial No. 138,530

15 Claims. (Cl. 106—179)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process which comprises heating at condensation temperature approximately equimolecular proportions of phthalic acid anhydride and a monomeric ester of 9,10-dihydroxystearic acid, and continuing such heating until the major portion of the phthalic acid anhydride has been converted to a condensation polymer formed by interaction with said ester, the ester being of the formula X—COOR in which X—CO— is the acyl radical of 9,10-dihydroxystearic acid and R is a radical of the group consisting of alkyl hydrocarbon radicals and the radicals $—CH_2CH_2OR'$ and $—CH_2CH_2OCH_2—CH_2R''$ in which R' is a member of the group consisting of alkyl, phenyl, and benzyl hydrocarbon radicals and R'' is an alkyl hydrocarbon radical.

2,613,158

POWDERED PIGMENT COMPOSITIONS

William T. Walton, Chicago, Ill., and Arthur B. Holton, Bay Village, Ohio, assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 29, 1950, Serial No. 152,764

15 Claims. (Cl. 106—218)

7. A granular color concentrate useful to change the coloration of a a liquid paint system in a uniform manner through manual incorporation therein which comprises a pigmented resin, dry-powdered, the pigmentary portion selected from the group consisting of phthalocyanine blue and lampblack having an everage particle diameter of from 0.08 to 0.2 micron, dispersed in a resin friable at 20° C. but plastic at elevated temperatures and soluble in oleoresinous varnishes, said pigment constituting from 10% to not more than 35% by weight of the total pigment-in-resin dispersion, and said solid concentrate classified in particle size to pass through a 40 mesh screen and be retained on a 200 mesh screen.

2,613,159

POWDERED PIGMENT COMPOSITIONS

William T. Walton, Chicago, Ill., and Arthur B. Holton, Bay Village, Ohio, assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 29, 1950, Serial No. 152,765

18 Claims. (Cl. 106—218)

14. A granular color concentrate useful to change the coloration of a liquid paint system in a uniform manner through manual incorporation therein which comprises a pigmented resin, dry-powdered, the pigmentary portion selected from the group consisting of iron blue, toluidine red, ferrite yellow and titanium dioxide, each of said pigments having an average particle diameter of from 0.2 to 0.3 micron, dispersed in a friable but thermoplastic resin soluble in oleoresinous varnishes, said pigment constituting from 25% to not more than 35% by weight of the total pigment-in-resin dispersion, and said solid concentrate preferentially classified in particle size to pass through a 50 mesh screen and be retained on a 140 mesh screen.

2,613,160

POWDERED PIGMENT COMPOSITIONS

William T. Walton, Chicago, Ill., and Arthur B. Holton, Bay Village, Ohio, assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 29, 1950, Serial No. 152,766

16 Claims. (Cl. 106—218)

12. A granular color concentrate useful to change the coloration of a liquid paint system in a uniform manner through manual incorporation therein which comprises a pigmented resin, dry-powdered, the pigmentary portion selected from the group consisting of red iron oxides, chrome greens and chrome yellows, each of said pigments having an average particle diameter of from 0.3 to 0.5 micron, dispersed in a resin friable at 20° C. but plastic at elevated temperatures and soluble in oleoresinous varnishes, said pigment constituting at least 50% but not more than 80% by weight of the total pigment-in-resin dispersion, and said solid concentrate

classified in particle size so as to completely pass through a 40 mesh screen and retained on a 200 mesh screen.

2,613,161

FLUID GASKET SEALING COMPOSITION

Chester M. White, Rochester, N. Y., assignor to Genesee Research Corporation, Rochester, N. Y., a corporation of New York

No Drawing. Application September 17, 1947, Serial No. 774,680
3 Claims. (Cl. 106—220)

3. A fluid gasket sealing composition consisting essentially of 8–12% of a resinous material, 17–23% of a filler, 14–17% of a low-boiling solvent and a base consisting essentially of 49–55% of a non-esterified oil selected from the group consisting of castor oil, blown castor and acetylated castor oil and 1.15% to 4.60% of added KOH (45%), said oil, by virtue of the presence of in situ formed potassium soap, being fluid and flowable and effectively stabilized against gumming and setting-up characteristic of untreated oil.

2,613,162

COATING COMPOSITIONS CONTAINING ALUMINUM ALCOHOLATES AS DRIERS

Herbert Walter Chatfield, Croydon, England, assignor to Leon Frenkel Limited, London, England, a company of Great Britain

No Drawing. Application January 26, 1949, Serial No. 73,007. In Great Britain January 30, 1948
3 Claims. (Cl. 106—264)

1. A rapid setting coating composition consisting essentially of a drying oil and a minor proportion of an aluminum alcoholate selected from the group consisting of heptyl and octyl alcoholates in amount sufficient to produce rapid setting.

2,613,163

LINOLEUM COMPOSITIONS

Charles G. Elliott, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application May 13, 1950, Serial No. 161,897
16 Claims. (Cl. 106—265)

1. A method of making linoleum type cement which comprises oxidizing and polymerizing a mixture containing at least 50% by weight of a siccative oil and a cyclic petroleum hydrocarbon fraction obtained as a by-product of the pyrolysis of petroleum, said fraction boiling between about 200° C. and 500° C., containing about 10% aromatics and having an iodine number of about 190 to 250.

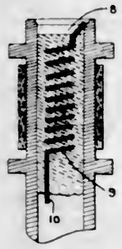
2,613,164

METHOD OF COATING ELECTRON EMISSIVE CATHODES

William P. Toorks, Roxbury, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Original application May 23, 1945, Serial No. 595,309. Divided and this application December 30, 1947, Serial No. 794,519
4 Claims. (Cl. 117—33.19)

1. The method of coating an external portion of a hollow or cylindrical cathode with an electron emissive powder the portion to be coated having numerous interstices, comprising the steps of immersing the cathode in a coating suspension of electron emissive powder in a volatile liquid containing a small percentage of temporary binder, centrifuging the cathode in the suspension so as to compact the powder about and



within the interstices of the cathode and thus depositing on the exterior thereof an adherent coating in excess amount, and thereafter cutting the excess coating material from the cathode.

2,613,165

SURFACE TREATMENT OF MAGNESIUM AND MAGNESIUM ALLOY ARTICLES

Edward F. Fischer, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application July 3, 1950, Serial No. 172,015
10 Claims. (Cl. 148—6.2)

10. In the process of applying a black color to magnesium base alloy die castings, the steps comprising immersing said castings for a period of ¼ to 5 minutes in an aqueous solution having as essential components thereof for producing a bright finish on said castings, prior to the application of the black color, 0.75 to 12% by weight of nitric acid, 5 to 60% by weight of chromic acid and 0.01 to 2% by weight of hydrofluoric acid, the ratio of nitric acid with respect to chromic acid being such that the weight of nitric acid is between 1.25 and 75% of the weight of chromic acid, said ratio diminishing as the chromic acid content increases beyond the point where the minimum amount of chromic acid can be used with the maximum amount of nitric acid so that at a concentration of 50% and more of chromic acid the nitric acid does not exceed 3% by weight and the hydrofluoric acid does not exceed 0.2% by weight of the solution, said solution being maintained at a temperature between 85 and 100° F., withdrawing said castings from said solution, rinsing them, immersing them for a period of ½ to 2 minutes in a second aqueous solution containing from 1 to 20% by weight of an alkali metal hydroxide maintained at a temperature between 180° F. and the boiling point of said solution, withdrawing said castings from said second solution, rinsing them and thereafter immersing them in a third aqueous solution containing potassium chrome alum and sodium dichromate as the essential components to produce a black color on said castings.

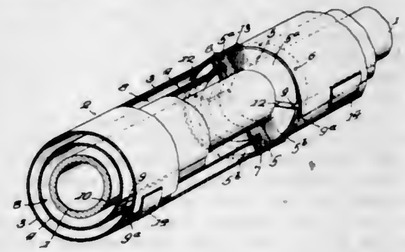
2,613,166

THERMAL INSULATION

George E. Gronemeyer, Wilmington, Del.

Application March 11, 1949, Serial No. 80,896
8 Claims. (Cl. 154—45)

1. A durable and readily removable and replaceable insulating structure comprising self-contained insulating units, each unit consisting of one or more layers of resilient heat reflective metal insulating sheets, means comprising a spacer ring formed of low heat conducting material having annular grooves to separate and receive the ends of the inner insulating sheets to form isolated air spaces, whereby said sheets are capable of freely expanding and contracting



with temperature changes, means for compensating for the thermal expansion and contraction of the insulated structure, means for closing the joints and seams to render them weatherproof, and means for securing the units in position.

2,613,167

METHYL CELLULOSE-MODIFIED PHENOLIC ADHESIVE AND PLYWOOD PRODUCT

Charles N. Cone, Portland, Oreg., assignor to United States Plywood Corporation, New York, N. Y., a corporation of New York

Application March 28, 1949, Serial No. 83,998
31 Claims. (Cl. 154—45.9)



3. The process of making an adhesive composition which comprises forming a mixture of an aqueous alkaline solution of a thermosetting, resinous condensation product of a phenol and an aldehyde and an aqueous dispersion of an alkali dispersible cellulose ether, the said dispersion containing from about 0.5% to about 4.0% by weight cellulose ether, the mixture containing from about 0.1 part to about 10.0 parts by weight cellulose ether (solids basis) for each 200 parts by weight phenol aldehyde resin (solids basis).

4. The plywood product the plies of which have been glued together with an adhesive composition comprising a mixture of an aqueous alkaline solution of a thermosetting, resinous condensation product of a phenol and an aldehyde, and an aqueous dispersion of an alkali dispersible cellulose ether, the said dispersion containing from about 0.5% to about 4.0% by weight cellulose ether, and the said mixture containing from about 0.1 part to about 10.0 parts by weight cellulose ether (solids basis) for each 200 parts by weight phenol-aldehyde resin (solids basis).

2,613,168

LABEL FOR RE-USABLE BOTTLES

Arthur Irving Totten, Jr., Richmond, Va., assignor to Reynolds Metals Company, Richmond, Va., a corporation of Virginia

Application April 14, 1949, Serial No. 87,571
2 Claims. (Cl. 154—46)

1. A gloss coated label adapted to be decomposed in the normal washing of bottles into exceedingly minute non-adhesive flecks consisting of a flexible paper base adhesively joined to a metal foil, said metal foil having a gloss coating thereon comprising about 4.5% to about 95.5% nitrocellulose with a nitrogen content of 9.20% to 11.70%, about 95.5% to about 4.5% a resinous reaction product which is non-resistant to hydrolysis and consisting of about two-



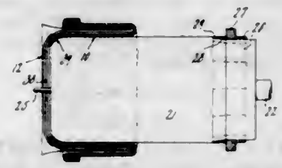
thirds to about a mole of a polyhydric alcohol, about two to three moles of an organic polybasic acid, and about three to four moles of hydrogenated abietyl alcohol, and a plasticizer.

2,613,169

METHOD OF MAKING COLLAPSIBLE CONTAINERS

Marion M. Cunningham, Woonsocket, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application February 16, 1950, Serial No. 144,523
15 Claims. (Cl. 154—83)



1. The method of making a collapsible closed container having a body and heads secured to the body, which comprises forming the body of coated fabric laid over a supporting form, securing a head of coated fabric to one end of said body, peeling the body part way back over itself far enough to bring one end approximately opposite the other end, securing a second head of coated fabric to the peeled back end of the body, and removing the body from the form.

2,613,170

CALCIUM SULFANILAMIDE PREPARATIONS

Simon L. Ruskin, New York, N. Y., assignor to Physiological Chemicals Company, New Rochelle, N. Y., a corporation of New York

No Drawing. Application March 2, 1944, Serial No. 524,781
15 Claims. (Cl. 167—51.5)

1. A therapeutic composition comprising an aqueous solution containing a calcium compound of a sulfanilamide, desoxyephedrine, and an effective quantity but less than 1% of calcium chloride as a stabilizing agent.

2,613,171

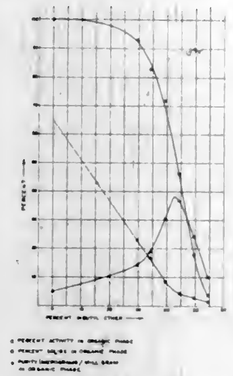
TWO-PHASE THREE-SOLVENT CONCENTRATION OF ANTIPERNICIOUS ANEMIA FACTORS

William G. Jackson, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

Application February 25, 1950, Serial No. 146,337
3 Claims. (Cl. 167—81)

1. A process for purifying anti-pernicious anemia factors whereby a material containing not more than 5.0 micrograms of vitamin B_{12} activity per milligram of solids may be purified to a product having a purity in excess of approximately 120 micrograms of vitamin B_{12} activity per milligram of solids, which comprises: inti-

mately distributing a material containing anti-pernicious anemia factors throughout a 2-phase ternary solvent system consisting of water, phenol, and dibutyl ether, said system having a con-



centration of dibutyl ether in the upper phase between about 30 and about 55 percent, separating the two phases, and thereafter recovering purified anti-pernicious anemia factors from the separated upper phase.

2,613,172

X-RAY CONTRAST COMPOSITIONS

William Galler, Valley Stream, N. Y., assignor to American Cystoscope Makers, Inc., New York, N. Y., a corporation of New York

No Drawing. Application August 10, 1949, Serial No. 109,630

7 Claims. (Cl. 167—95)

1. An X-ray contrast composition comprising a mixture of a plurality of 2,4,6-triiodophenoxy alkanes dissolved in a vegetable oil, the iodine content of said composition being between 10 and 75%.

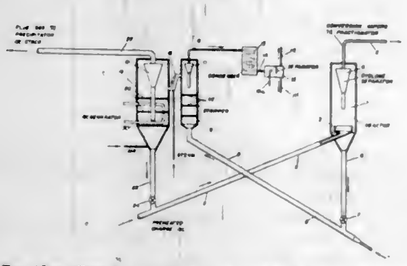
2,613,173

PROCESS FOR THE CATALYTIC CONVERSION OF HYDROCARBONS AND THE STRIPPING OF THE FOULED CATALYST PARTICLES WITH STEAM

Orin G. Kaasa, Highland, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application April 30, 1947, Serial No. 745,042

3 Claims. (Cl. 196—52)



1. In the fluid catalyst process for the conversion of hydrocarbons wherein dense phase bodies of the fluidized catalyst are maintained in a reaction zone and in a regenerating zone, respectively, the catalyst is continuously regenerated in the regenerating zone by contact with air under conditions adapted to avoid excessive rise in temperature, regenerated catalyst is withdrawn from the body of the catalyst in the regenerating zone, suspended in oil vapors and conveyed thereby to the reaction zone, catalyst is continuously withdrawn from the body of catalyst in the reaction zone, stripped of oil in a stripping zone by contact with a steam stripping medium and returned to a body of catalyst in the regenerating zone, the improvement which comprises withdrawing catalyst by gravity from a lower portion of the body of catalyst in the reaction zone, suspending the withdrawn, substantially unstripped catalyst in a steam stream and conveying it thereby upwardly to the lower portion of a stripping zone separate from the reaction zone, positioned at an elevation such that the body of catalyst therein extends to an elevation higher than the upper surface of the body of catalyst in the regenerating zone and is in a relatively dense phase and from which the passing of stripping steam to the reaction zone is prevented, stripping the catalyst in the stripping zone by passing the steam conveying medium upwardly through the dense phase catalyst in this zone, passing the stripped catalyst by gravity from the stripping zone to the upper portion of the dense phase body of catalyst in the regenerating zone, introducing steam into the catalyst as it passes from the stripping zone to the regenerating zone to effect a seal for preventing regeneration gases from passing into the stripping zone, and passing regeneration air upwardly through the body of catalyst in the regenerating zone, whereby substantial burning of the carbonaceous deposit from the catalyst in transit from the reaction zone to the zone of regeneration is avoided.

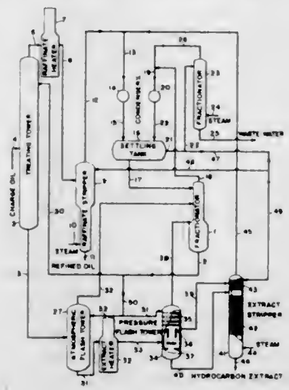
2,613,174

FURFURAL RECOVERY

Carl E. Ockert, Chicago, Ill., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application August 13, 1949, Serial No. 110,050

7 Claims. (Cl. 202—40)



3. The method for recovering furfural from a mixture comprising a major proportion of furfural, a minor proportion of hydrocarbon material less volatile than furfural and a small proportion of acidic furfural derivatives which comprises: distilling said mixture in a first distillation zone; removing from said first distillation zone an overhead fraction comprising essentially furfural and a residue comprising a major proportion of furfural, a minor proportion of hydrocarbon material, and a small proportion of acidic furfural derivatives; distilling said residue in a second distillation zone; removing from said second distillation zone an overhead fraction comprising essentially furfural and containing no substantial amount of acidic furfural derivatives, a sidestream comprising a major proportion of furfural, a minor proportion of hydrocarbon material, and a substantial proportion of acidic furfural derivatives, and a second residue comprising a major proportion of hydrocarbon material and a minor proportion of furfural; introducing said residue between the stripping and rectifying zones of a steam stripping zone containing a stripping zone and a rectifying zone; introducing said sidestream into said rectifying zone of said steam stripping zone at a level intermediate of the ends of said rectifying zone; stripping said sidestream and said second residue with steam in said steam stripping zone; and removing from said steam stripping zone as vapor a mixture comprising essentially furfural and water and containing no substantial amount of acidic furfural derivatives.

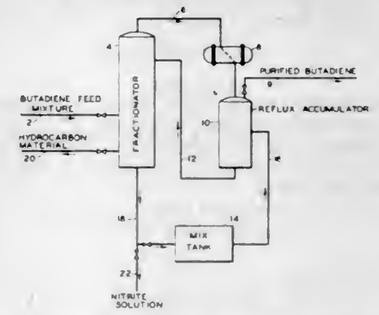
2,613,175

INHIBITING FORMATION OF SELF-PROPAGATING POLYMERS DURING DISTILLATION BY USE OF WATER-SOLUBLE NITRITES

Leo H. Johnstone, Ludwig A. Webber, and John J. Costolow, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application October 18, 1948, Serial No. 55,192

12 Claims. (Cl. 202—57)



4. A continuous process for inhibiting the formation of benzene insoluble self-propagating polymer in a butadiene fractionation zone in which a butadiene is being fractionated, which comprises introducing an aqueous solution containing 1 to 20 weight per cent of sodium nitrite into an upper portion of said butadiene fractionation zone and maintaining said aqueous solution in the fractionation zone during the butadiene fractionation operation, allowing said aqueous solution to flow downwardly through said fractionation zone, and removing said aqueous solution from the bottom portion of said fractionation zone.

2,613,176

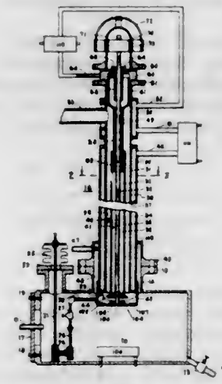
FALLING FILM TYPE OF VACUUM STILL WITH ROTATING PARTIAL CONDENSER

Albert W. Goldsbarry, Northbrook, and Meyer S. Agruss, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application December 26, 1947, Serial No. 793,896

3 Claims. (Cl. 202—153)

1. A fractionating column comprising a plurality of concentrically supported conduits defining a plurality of annuli, a central shaft rotatably supporting at least the innermost one of said conduits, rotational driving means connected to said shaft, cooling liquid conduit means in telescopic relationship with the inner portion of the upper end of said innermost concentric conduit, cooling liquid dispersion means within the top of said innermost concentric conduit providing a falling film of cooling liquid on the inner surface of said innermost conduit, circumferential ports along the bottom periphery of said innermost concentric conduit, a supporting and cooling liquid dispersing means attached to the lower portion of said shaft and impinging in supporting relationship on the bottom periphery of said innermost conduit, the concentric arrangement of the innermost conduit and the surrounding one defining a vapor space, means for introducing vapors into the bottom of said vapor space, the two concentric conduits next adjacent to said innermost conduit being joined adjacent their lower ends to define a liquid holding space, means to charge liquid to said space, said supporting and cooling liquid dispersing means being adjacent the point of entry of vapors into said vapor space and said last mentioned dispersing means being positioned to cooperate with said ports to discharge liquid from said space into the path of ascending vapors entering the bottom of said vapor space.



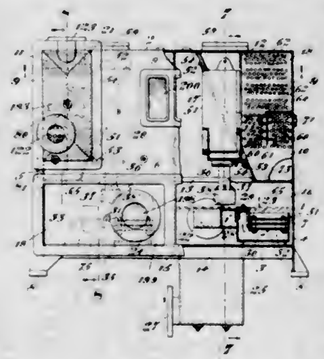
2,613,177

LOW-PRESSURE FLASH EVAPORATOR

Eugene Porter Worthen, Braintree, and Fenner Smith Barbour, Wollaston, Mass., assignors to Bethlehem Steel Company, a corporation of Pennsylvania

Application July 1, 1948, Serial No. 36,306

11 Claims. (Cl. 202—174)



2. An apparatus for evaporating and distilling a liquid, comprising a feed heater in which the feed liquid is heated, a pair of flash chambers in

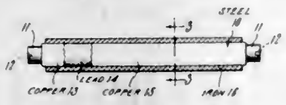
series relation for receiving and evaporating the heated feed liquid, means to maintain said flash chambers at progressively lower temperatures and pressures than in the feed heater, conduit means in each chamber having totally submerged orifices for releasing flash vapors under the surface of the feed liquid, and superposed spaced plates provided with a plurality of vertically staggered perforations adjacent said orifices for removing fine droplets from said vapors.

2,613,178

METHOD OF ELECTROFORMING SEAMLESS TUBES

Arthur W. Grant, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application January 19, 1946, Serial No. 642,233
3 Claims. (Cl. 204—9)



1. The method of making upon the same form successive tubular objects of iron having a smooth accurately sized inner surface, which comprises providing a steel form having a smooth accurately formed outer surface, electrodepositing a thin barrier in the form of a flash film of copper over the form, electrodepositing a film of lead approximately .001 inch thick over the copper, electrodepositing a second flash film of copper of similar thickness to the first as a barrier over the lead, electrodepositing a seamless iron jacket of substantial thickness over said second flash film so that the bore of this jacket will conform within approximately .001 of an inch to the size of the corresponding portion of said form, and then melting the lead film and drawing the iron jacket off the form while the lead is prevented by the barriers from contacting the metal of the form or jacket.

2,613,179

SILVER PLATING

Henry Wolfson and Bernard Thomson, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

No Drawing. Application June 19, 1947, Serial No. 755,738. In Great Britain June 20, 1946
8 Claims. (Cl. 204—46)

1. An argentocyanide electrolyte for use in electrodepositing bright silver plate at high current densities of at least 10 amp./ft.^{2} of cathode area that consists essentially of an aqueous solution of the following substances in substantially the proportions indicated:

	G./l.
Silver cyanide	40
Potassium cyanide	55
Potassium nitrate	100
Potassium selenite	1.0

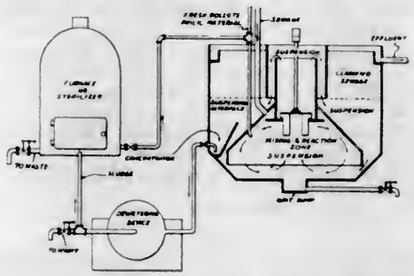
2,613,180

SEWAGE TREATING PROCESS

Walter H. Green, Batavia, and Anton A. Kalinske, Elmhurst, Ill., assignors to Infilco Incorporated, Chicago, Ill., a corporation of Delaware

Application July 3, 1948, Serial No. 37,042
6 Claims. (Cl. 210—2)

1. The process of treating sewage which comprises maintaining a suspension of calcium carbonate in sewage undergoing treatment, continuously adding incoming sewage to be treated to said suspension, thereby displacing treated sewage therefrom, and simultaneously adding to said suspension a quantity of calcium carbonate about equal to the B. O. D. of the incoming sewage, applying mechanical agitation to said suspension to mix the newly entering sewage and calcium carbonate therewith, retaining and accumulating in said suspension calcium carbonate left behind by the sewage displaced therefrom and thereby attaining therein a concentration of calcium carbonate per unit volume of sewage being treated many times greater than the quantity of calcium carbonate added per unit volume of incoming sewage, and withdrawing to waste from said suspension spent calcium carbonate with fixed pollute.

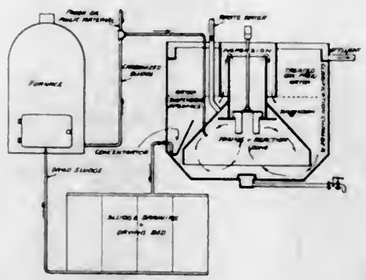


2,613,181

TREATMENT OF OILY WASTE WATER

Walter H. Green, Geneva Township, Kane County, and Anton A. Kalinske, Elmhurst, Ill., assignors to Infilco Incorporated, Chicago, Ill., a corporation of Delaware

Application September 13, 1947, Serial No. 773,858
4 Claims. (Cl. 210—2)



1. A process of removing adsorbable impurities from a liquid contaminated therewith comprising the steps of maintaining a concentrated suspension of solid particles of calcium carbonate, said suspension containing at least about 20 percent solids, by volume, continually supplying to said suspension new calcium carbonate particles, introducing liquid to be treated into said suspension and retaining it therein for a period of time, applying mechanical energy to maintain a circulation of, and to mix new calcium carbonate particles and liquid to be treated with, said suspension, separating treated liquid from said circulating suspension after said period of time, and removing contaminated particles of calcium carbonate from said suspension after a period of retention therein longer than the period of retention of the liquid and at the rate of addition of new calcium carbonate particles thereto.

2,613,182

KETO-ACID SOAP GREASES

Lorne W. Sproule, Warren C. Pattenden, and Laurence F. King, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application January 5, 1950, Serial No. 137,030
7 Claims. (Cl. 252—39)

1. A lubricating grease composition comprising a major proportion of lubricating oil thickened to a grease consistency with a minor proportion of a metal soap of 12-keto stearic acid.

2,613,183

SULFURIZED ADDITIVES FOR LUBRICATING COMPOSITIONS

Abraham D. Kirshenbaum, Union, and James M. Boyle, Bayonne, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 19, 1949, Serial No. 111,343
19 Claims. (Cl. 252—46.7)

1. An extreme pressure additive composition for lubricants consisting essentially of the reaction product of about 1 molar proportion of a monocyclic terpene with about 1 to 2 molar proportions of a sulfur chloride, the quantity of said sulfur chloride being substantially sufficient to saturate one double bond in said terpene, said reaction product being further reacted with about 0.001 to 0.1 molar proportion of phosphorus sulfide at a temperature of 100° to 175° C.

2,613,184

LUBRICATING OIL CONTAINING A COPOLYMER OF AN ESTER OF AN UNSATURATED ACID AND A N-HYDROCARBON AMIDE OF AN UNSATURATED ACID

Willard E. Catlin, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 8, 1951, Serial No. 255,523
17 Claims. (Cl. 252—51.5)

1. A lubricating oil containing from 0.1% to 10% by weight of an oil-soluble copolymer of an alkyl ester, in which the alkyl ester group contains from four to eighteen carbon atoms, of an unsaturated aliphatic acid, and a N-hydrocarbon amide of an unsaturated aliphatic acid in which the hydrocarbon radical attached to the nitrogen atom has from four to eighteen carbon atoms, said unsaturated acid in each instance being selected from the group consisting of acrylic acid and alpha-alkylacrylic acids in which the alkyl group contains from 1 to 3 carbon atoms, the amide-nitrogen content of said copolymer ranging from 0.2% to 7.0% by weight.

2,613,185

COMPOSITE DETERGENT BAR

Donald E. Marshall, Minneapolis, Minn., assignor to Micro Processing Equipment Inc., Des Plaines, Ill., a corporation of Illinois

Application March 30, 1951, Serial No. 218,371
8 Claims. (Cl. 252—92)

1. A composite or multi-part bar of detergent comprising: a homogeneous solid body consisting essentially of unadulterated mechanically cold milled soap having an ultra-microcrystalline structure and exceptional cold welding properties, said body being preshaped and having substantial mass; another preshaped homogeneous solid body of a detergent selected from a group consisting of fatty acid soap and organic sulfated and sulfonated anionic water soluble detergents separate and at all times distinguishable from the first named body and also having substantial



mass; said bodies having contiguous surfaces in intimate contact with one another and permanently bonded together by the cold welding properties of said ultra-microcrystalline cold milled soap, whereby said bodies will remain joined together despite the action of temperature, time and moisture encountered in storage and use.

2,613,186

CLEANING COMPOSITION

Charles F. Pickett, Bel Air, and Myer Rosenfeld, Aberdeen, Md.

No Drawing. Application December 23, 1948, Serial No. 67,082
4 Claims. (Cl. 252—170)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. A cleaning composition consisting essentially of from about 33% to about 90% of high flash naphtha, from about 7% to about 55% of kerosene, and from about 1% to about 15% of a tertiary aliphatic alcohol selected from the group consisting of diacetone alcohol and tertiary butyl alcohol.

2,613,187

PREPARATION OF A SUPPORTED H_3PO_4 CATALYST

Julian M. Mavity, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 14, 1949, Serial No. 99,122
12 Claims. (Cl. 252—435)

1. A process for manufacturing a solid catalyst which comprises mixing from about 50 to about 75% by weight of a phosphoric acid, from about 15 to about 49.5% by weight of a siliceous adsorbent, and from about 0.5 to about 10% by weight of an oxygen-containing organic silicon compound selected from the group consisting of an alkyl orthosilicate and a siloxane to form a composite, and calcining said composite.

2,613,188

PREPARATION OF A SUPPORTED H_3PO_4 CATALYST

Julian M. Mavity, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 14, 1949, Serial No. 99,123
10 Claims. (Cl. 252—435)

1. A process for manufacturing a solid catalyst which comprises mixing from about 50 to about 75% by weight of a phosphoric acid, from about 15 to about 49.5% by weight of a siliceous adsorbent, and from about 0.5 to about 10% by weight of a halogen-containing silicon compound to form a composite, and calcining said composite.

2,613,189

CELLULAR MATERIAL AND BLOWING AGENT THEREFOR

Donald V. Sarbach, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 2, 1950, Serial No. 183,100

19 Claims. (Cl. 260—2.5)

6. A composition capable of being blown to cellular form comprising a heat-softening binding material having dispersed therein a mixture in finely-divided form, of sodium bicarbonate with from 2 to 30%, by weight of the mixture, of an amide selected from the class consisting of cyanamide, dicyandiamide, and melamine.

2,613,190

PREPARATION OF SHEET MATERIALS CONTAINING FIBERS, CORK PARTICLES, AND A RUBBERLIKE BINDER

David A. Feigley, Jr., Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application January 26, 1951, Serial No. 208,081

7 Claims. (Cl. 260—17.4)

1. A method of making sheet material containing fibers, cork particles, and a rubberlike binder, which comprises forming an aqueous slurry containing papermaking fibers and 200 mesh to dust cork particles; adding to said slurry a water-soluble salt of the group consisting of aluminum salts, ferric salts, and stannic salts; converting said salt to a water-insoluble hydroxide by reacting the same with a hydroxide; adding to the resulting slurry a latex of a synthetic rubber of the group consisting of rubberlike polymers of butadiene, rubberlike polymers of isoprene, rubberlike polymers of chloroprene, rubberlike copolymers of butadiene with copolymerizable vinyl compounds, and rubberlike copolymers of isoprene with copolymerizable vinyl compounds; agitating the resulting material to coagulate the solids of said latex until substantially all of the solids content thereof has carried said cork particles onto said fibers; and forming the resulting suspension into a sheet.

2,613,191

THERMOPLASTIC ADHESIVES

Ralph C. McGaffin, Plainfield, N. J., and Alfred G. Battaglia, New York, N. Y., assignors to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application June 4, 1949, Serial No. 97,312

4 Claims. (Cl. 260—29.2)

1. The method of making a thermoplastic adhesive composition suitable for the production of thin, dried adhesive coatings which are non-tacky at room temperatures but which are activatable to a tacky and adhesive condition by heat which consists, in melting a solid plasticizer, in mixing the melted plasticizer with an emulsifying agent in an aqueous medium and producing an emulsion of the plasticizer particles in which the plasticizer particles are coated with the emulsifying agent, and then mixing the emulsion with a thermoplastic polymeric material and producing the thermoplastic adhesive composition, the resolidified plasticizer particles being dispersed in the composition and being physically separated in the form of discrete particles from the thermoplastic polymeric material thereof, the said coated plasticizer particles being inactive towards the thermoplastic polymeric material at room temperature but being fusible and rendered activated as a plasticizer for said thermoplastic polymeric material to render coatings thereof tacky and adhesive under heat applied to such coatings.

2,613,192

POLISHING COMPOSITION

Herbert Honig, New York, N. Y.

No Drawing. Application October 21, 1947, Serial No. 781,251

2 Claims. (Cl. 260—29.3)

1. As a new composition of matter, a polishing agent, comprising, in combination, resin varnish containing phenol-formaldehyde resin ranging from 10 to 15% by weight, a liquid soap in the form of chlorophyl containing pine oil soap ranging from 10 to 14% by weight, whereby said formaldehyde resin and said soap are present within said agent in substantially equal amounts, 8 to 10% by weight of turpentine, 15 to 20% by weight of lemon oil with the addition of paraffin oil amounting to 15 to 20% by weight, whereby said lemon oil and said paraffin oil are present within said agent in substantially equal amounts and each being present in a larger amount than that of each of said phenol-formaldehyde resin and of said soap, and with the further addition of a cleansing vehicle consisting of a mixture of acetic acid in the amount of 12 to 16%, and alcohol in the amount of 5 to 8%, the remainder being water.

2,613,193

SPRAYABLE POLYTETRAFLUOROETHYLENE AQUEOUS SUSPENSOIDS CONTAINING AN ORGANIC LIQUID

Le Verne Kenneth Osdal, Upper Darby, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 10, 1950, Serial No. 137,890

21 Claims. (Cl. 260—29.6)

1. A sprayable emulsion comprising a premade aqueous suspensoid of colloidal substantially completely polymerized tetrafluoroethylene and an organic liquid emulsified therewith.

2,613,194

FIBER FORMING SOLUTIONS

Alfred B. Craig, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application September 26, 1950, Serial No. 186,909

14 Claims. (Cl. 260—308)

1. A fiber spinning solution comprising a solvent for fiber-forming acrylonitrile polymers, polymer of monomeric substances of which from two to ten percent of the total monomer is a vinylpyridine and at least 80 percent is acrylonitrile, and from 0.01 to 3.0 per cent by weight (based on the solution) of sulfuric acid.

2,613,195

FIBER SPINNING SOLUTIONS

Alfred B. Craig, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application September 26, 1950, Serial No. 186,910

19 Claims. (Cl. 260—30.8)

1. A fiber spinning solution comprising a solvent for fiber-forming acrylonitrile polymers, a blend of a polymer of at least 90 per cent acrylonitrile and a polymer of at least 30 per cent vinylpyridine, said polymers being so proportioned so as to provide a total of from two to ten per cent of vinylpyridine in polymeric form in the blended polymer, and from 0.02 to 5.0 per cent by weight (based on the solution) of an alkyl ester of an aromatic sulfonic acid.

2,613,196

SOLUTIONS OF ACRYLONITRILE POLYMERS REACTED WITH A TRIALKYL AMINE

George E. Ham, Dayton, Ohio, assignor, by mesne assignments, to The Chemstrand Corporation, a corporation of Delaware

No Drawing. Application October 22, 1949, Serial No. 123,092

14 Claims. (Cl. 260—32.6)

1. A fiber spinning solution of a copolymer of 75 to 98 percent of acrylonitrile and from two to 25 percent of a vinyl ester of α-chloroacetic acid, said copolymer having been contacted and reacted with a trialkylamine wherein the alkyl group has up to two carbon atoms, and a solvent for the acrylonitrile copolymers.

2,613,197

BALANCING RING MATERIAL CONSISTING OF SOLUTIONS OF POLYSTYRENE IN TETRABROMOETHANE

Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware

No Drawing. Application December 7, 1949, Serial No. 131,687

3 Claims. (Cl. 260—33.8)

1. As a new composition of matter, a solution consisting of tetrabromethane and a polystyrene in an amount of approximately 5 to 5¼ per cent by weight of the solution.

2,613,198

RESOL-ALKYD RESIN PRODUCT

Herbert Hönel, Hamburg-Wandsbek, Germany, and Heinrich Manzano, Vienna, Austria

No Drawing. Application July 22, 1947, Serial No. 762,788. In Germany March 1, 1941

Section 1, Public Law 690, August 8, 1946

Patent expires March 1, 1961

6 Claims. (Cl. 260—44)

1. In a process of producing a hardenable resin, the improvement which comprises combining (1) a hardenable low molecular condensation product comprising essentially phenol alcohols obtained by means of a strong alkaline catalyst from formaldehyde and a phenolic component selected from a group consisting of (*a*) phenols having more than two reactive positions, (*b*) mixtures of such phenols, and (c) mixtures of such phenols with up to 10% of phenols having only two reactive positions, said phenolic component having 1⅓ to 2 aliphatic carbon atoms as substituents per phenolic OH group, with (2) a plasticizing alkyd resin containing long aliphatic chains and having alcoholic hydroxyl groups in substantial excess over the amount necessary for completely esterifying the carboxylic groups of the ester-forming components, by protracted heating beyond the point necessary for removal of the water content of the condensation product, in a slightly acid medium at a temperature and for a period insufficient for carrying out the hardening reaction but sufficient for effecting etherification, and interrupting the heating before gelation takes place.

2,613,199

ELASTIC HYDROCARBONSUBSTITUTED POLYSILOXANES AND ALIPHATIC AZO COMPOUNDS AS CATALYSTS

Philip A. Di Giorgio and Moyer M. Safford, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

No Drawing. Application April 5, 1951, Serial No. 219,527

6 Claims. (Cl. 260—46.5)

1. A heat-convertible composition of matter comprising (1) a heat-curable polymerized hydrocarbon-substituted polysiloxane wherein the hydrocarbon radicals are selected from the class consisting of alkyl, aryl, aralkyl, and alkaryl radicals, and containing an average of from 1.95 to 2.1 hydrocarbon groups per silicon atom and (2) an aliphatic azo compound present, by weight, in an amount equal to from about 0.1 to 10% by weight of (1).

2,613,200

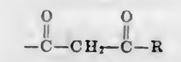
DIKETONE ION-EXCHANGE RESINS

Charles H. McBurney, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application August 26, 1950, Serial No. 181,697

7 Claims. (Cl. 260—66)

1. A process for preparing resins which are capable of adsorbing cations and which contain enolizable groups having the formula



which comprises reacting under substantially anhydrous conditions and in the presence of an alkaline catalyst from the class consisting of sodium alkoxides, sodamide and sodium hydride (*a*) a copolymer of 0.5% to 10% divinylbenzene and 99.5% to 90% of an alkyl ester of acrylic acid with (*b*) a ketone having the formula $CH_3—CO—R$, the character R in both formulas being the same alkyl group.

2,613,201

CONCENTRATION OF PARTIALLY POLYMERIZED DIALLYL PHTHALATE

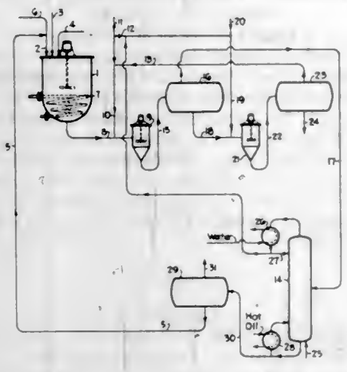
John Anderson, Berkeley, and John W. Mecorney, Albany, Calif., and George E. Ham, Dayton, Ohio, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application April 21, 1947, Serial No. 742,820

8 Claims. (Cl. 260—78.4)

1. A process for producing a concentrated solution of diallyl phthalate partial polymers comprising polymerizing diallyl phthalate in a polymerization zone until polymerization is from 20% to 40% complete, contacting the partial polymer so produced with from 2 5 to 12 volumes per volume of partial polymer of a dual solvent, said dual solvent containing from 65% to 85% acetone and the balance water, whereby two phases are formed, separating the phases and subjecting the upper phase to steam stripping whereby an overhead fraction is produced comprising dual solvent and a bottoms is produced containing water and diallyl phthalate monomer, separating the water from the monomer and returning the monomer to the polymerization

vessel, contacting the lower phase with from 2.5 to 12 volumes per volume of partial polymer of an acetone-water dual solvent containing from 80% to 87½% acetone to again form two phases,



separating the phases, recovering the bottom phase as product and recycling the upper phase to the effluent of the polymerization zone, the above extractions being conducted at a temperature of from 0° C. to 40° C.

2,613,202

METHOD FOR POLYMERIZING CHLOROTRIFLUOROETHYLENE

George F. Roedel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application June 28, 1950, Serial No. 170,940

15 Claims. (Cl. 260—92.1)

1. The process for obtaining polymeric chlorotrifluoroethylene having a softening point above 220° C., which process comprises (1) forming a suspension of ingredients comprising (*a*) chlorotrifluoroethylene, (*b*) water, the ratio of water to monomer on a weight basis being above 1 to 1, (c) an organic peroxide polymerization catalyst for (*a*), (*d*) a heavy metal compound whose metal ion is capable of existing in at least two valence states and which compound is soluble in the chlorotrifluoroethylene, and (*e*) a water-soluble reducing agent for the heavy metal ion, and (2) effecting reaction under autogenous pressure between the ingredients at a pH of from about 2.3 to 4.0 at a temperature below 35° C. for a time sufficient to effect polymerization of the monomer to polymeric chlorotrifluoroethylene.

2,613,203

METHOD FOR POLYMERIZING TETRAFLUOROETHYLENE

Robert L. Myers, Burnt Hills, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application June 28, 1950, Serial No. 170,947

10 Claims. (Cl. 260—92.1)

1. The process for obtaining polymeric tetrafluoroethylene having a softening point above 350° C., which process comprises (1) forming a suspension of ingredients comprising (*a*) tetrafluoroethylene as essentially the sole polymerizable ingredient, (*b*) water, the ratio of water to monomer on a weight basis being above 1 to 1, (c) an organic peroxide polymerization catalyst for (*a*), (*d*) a heavy metal compound whose metal ion is capable of existing in at least two valence states and which compound is soluble in the tetrafluoroethylene, and (*e*) a water-soluble reducing agent for the heavy metal ion, and (2) effecting reaction under autogenous pressure between the ingredients at a pH of from about 2.3 to 4.0 at a temperature below 35° C. for a time sufficient to effect polymerization of the monomer to polymeric tetrafluoroethylene.

2,613,204

CRYSTALLINE COMPLEXES OF UREA AND CYCLIC OXYGEN CONTAINING COMPOUNDS

Lloyd C. Fetterly, Seattle, Wash., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application January 9, 1948, Serial No. 1,477

7 Claims. (Cl. 260—96.5)

1. As a new composition of matter, a crystalline molecular complex of urea with an unsubstituted oxacyclohydrocarbon having only C, H and O atoms and containing from 5 to 6 atoms in the oxacyclohydrocarbon ring, and in which the only oxygen present forms a part of the oxacyclohydrocarbon ring.

2,613,205

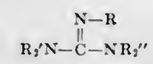
PRODUCT OF REACTION OF PHOSPHORUS SULFIDE, AND HYDROCARBON, WITH GUANIDINE CARBONATE

Max W. Hill, Somerville, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application April 23, 1949, Serial No. 89,370

16 Claims. (Cl. 260—132)

1 As a new composition of matter a product obtained by reacting one molecular proportion of a phosphorus sulfide with about 1 to about 10 molecular proportions of a hydrocarbon at a temperature of about 200° to about 600° F. and neutralizing the acidic reaction product with an organic basic reacting compound selected from the group consisting of: (1) free bases of the composition



in which R, R′ and R″ are each members of the group consisting of hydrogen and hydrocarbon radicals containing 1–20 carbon atoms, and (2) basic reacting salts of the aforementioned free bases.

2,613,206

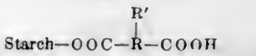
FREE-FLOWING STARCH ESTERS

Carlyle G. Caldwell, Forest Hills, N. Y., assignor to National Starch Products Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application December 14, 1949, Serial No. 133,004

5 Claims. (Cl. 260—233.5)

1. A free-flowing ungelatinized starch derivative comprising the product of an ungelatinized starch acid-ester of a substituted dicarboxylic acid of the following formula:



wherein R is a radical from the group of dimethylene and trimethylene radicals and R′ is a hydrocarbon substituent from the class consisting of an alkyl, alkenyl, aralkyl, and aralkenyl, reacted with a compound containing a polyvalent metal ion.

2,613,207

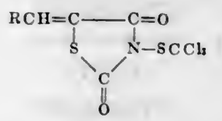
3-TRICHLOROMETHYLSULFENYL-5-ARALKYLIDENE-2,4-THIAZOLIDINEDIONES

Chien-Pen Lo, Philadelphia, Pa., Elwood Y. Shropshire, Moorestown, N. J., and Willard J. Croxall, Bryn Athyn, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application November 24, 1950, Serial No. 197,490

5 Claims. (Cl. 260—240)

1. As new chemical substances, compounds of the formula



wherein R is a member of the class consisting of phenyl and phenylethenyl groups of not over 18 carbon atoms.

2,613,208

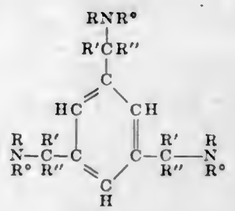
TERTIARY AMINOMETHYLBENZENES

John O. Van Hook, Roslyn, and Willard J. Croxall, Bryn Athyn, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application June 29, 1949, Serial No. 102,163

6 Claims. (Cl. 260—247)

1. Compounds of the formula



where R and R° are monovalent hydrocarbon groups when taken individually having a total of not over twelve carbon atoms and when taken together form a saturated divalent chain from the class consisting of —$CH_2CH_2CH_2CH_2$—, —$CH_2CH_2CH_2CH_2CH_2$—, —$CH_2CH_2OCH_2CH_2$—, and —$CH_2CH_2SCH_2CH_2$—, said chain forming a five- to six-sided heterocycle with the nitrogen, and R′ and R″ represent a member of the class consisting of hydrogen and monovalent hydrocarbon groups containing not over eleven carbon atoms.

2,613,209

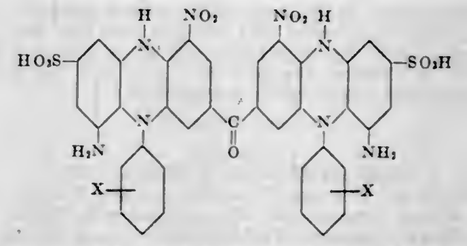
WOOL DYESTUFFS

Emil Beniers, Frankfort-on-the-Main-Hochst, Germany, assignor to Farbwerke Hoechst vormals Meister Lucius & Bruning, Frankfort-on-the-Main-Hochst, Germany

No Drawing. Application June 26, 1951, Serial No. 233,713. In Germany July 14, 1950

4 Claims. (Cl. 260—267)

1. The wool dyestuffs corresponding in the free form to the general formula



wherein the X's stand for members of the group consisting of hydrogen, chlorine, methyl, methoxy and sulfonic acid groups, being brown powders, soluble in water, which dye wool brown shades of very good fastness to light and to wet processing.

2,613,210

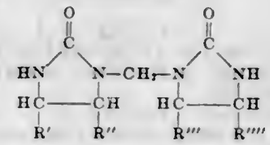
METHYLENE-BIS-2-IMIDAZOLIDONES

Melvin D. Hurwitz, Philadelphia, and Robert W. Auten, Jenkintown, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application September 13, 1950, Serial No. 184,724

6 Claims. (Cl. 260—309.7)

1. As new chemical substances, compounds of the formula



wherein R′, R″, R‴, and R⁗ represent members of the class consisting of hydrogen and the methyl group with the proviso that at least one of the pair R′ and R″ and of R‴ and R⁗ is hydrogen.

2,613,211

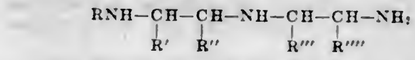
IMIDAZOLIDINETHIONES

Melvin D. Hurwitz, Philadelphia, and Robert W. Auten, Jenkintown, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application October 26, 1950, Serial No. 192,350

4 Claims. (Cl. 260—309.7)

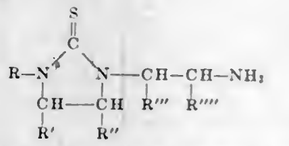
1. A process for preparing imidazolidinethiones which comprises reacting together carbon bisulfide and an amine of the formula



and heating the reaction mixture to a temperature between 200° and 250° C., in the above formula the R substituents representing at least one member of the class consisting of hydrogen and the methyl group with the requirement that

of the pair R′ and R″ and of the pair R‴ and R⁗ at least one of the substituents is hydrogen.

3. As new chemical substances, compounds of the formula



wherein the R substituents represent members of the class consisting of hydrogen and the methyl group with the requirement that of the pair R′ and R″ and of the pair R‴ and R⁗ at least one of the substituents is hydrogen.

2,613,212

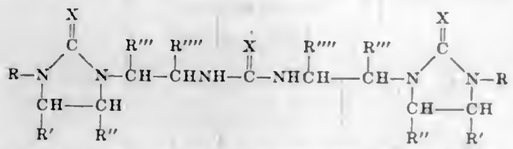
IMIDAZOLIDONE DERIVATIVES

Melvin D. Hurwitz, Philadelphia, and Robert W. Auten, Jenkintown, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application October 26, 1950, Serial No. 192,351

3 Claims. (Cl. 260—309.7)

1. As a new chemical, a compound of the formula



wherein the R substituents represent members of the class consisting of hydrogen and the methyl group and X is a member of the class consisting of oxygen and sulfur.

2,613,213

PURIFICATION OF TETRAHYDROPHTHALIMIDES WITH ALKALINE EARTH METAL HYDROXIDES

Allen R. Kittleson, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 10, 1951, Serial No. 245,979

4 Claims. (Cl. 260—326)

1. A process for the purification of a tetrahydrophthalimide which comprises the steps of dissolving the crude imide in water maintained at a temperature in the range of about 75° to 100° C., adding an alkaline earth metal hydroxide to the resulting solution maintained in the same temperature range so as to precipitate water-insoluble impurities therefrom, and separating the impurities while hot from the residual solution so as to leave a purified tetrahydrophthalimide solution.

2,613,214

SYNTHESIS OF CHLOROMETHYLATED HALOALKYL THIOPHENES

Herman Pines, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 28, 1946, Serial No. 719,127

7 Claims. (Cl. 260—332.5)

1. A haloalkyl - chloromethyl - thiophene in which the haloalkyl group contains at least two carbon atoms and the halogen atom is combined with a carbon atom of said haloalkyl group other than the carbon atom attached to the thiophene ring.

2,613,215

TREATMENT OF GLYCERIDE OILS

Karl F. Mattil, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application August 6, 1947, Serial No. 766,859

4 Claims. (Cl. 260—409)

1. The process of producing a relatively nonreverting glyceride oil from a reverting glyceride oil, which comprises hydrogenating said reverting oil containing unsaponifiable matter to reduce the iodine value of the said oil by about 4 to 20 points, subjecting the partially hydrogenated oil containing the unsaponifiable fraction in an unoxidized state to a fractionation operation in the presence of a liquefied normally gaseous hydrocarbon solvent under temperature conditions whereby the resulting solution separates into two phases, one phase being rich in unoxidized unsaponifiable matter and another phase being relatively rich in nonreverting glyceride oil, and separating said phases.

2,613,216

WITHDRAWN

2,613,217

WITHDRAWN

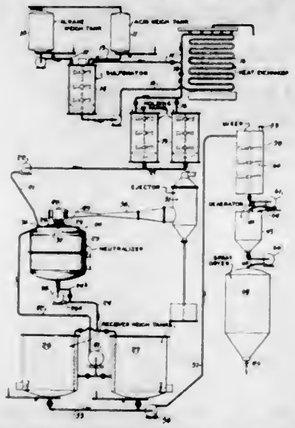
2,613,218

VACUUM NEUTRALIZATION OF DETERGENTS

Alan C. Stoneman, San Marino, Calif., assignor to Purex Corporation, Ltd., South Gate, Calif., a corporation of California

Application June 12, 1950, Serial No. 167,642

13 Claims. (Cl. 260—457)



1. The method of neutralizing an acidic stock of the class consisting of sulfonated and sulfated organic compounds having an aliphatic radical containing between about 8 to 18 carbon atoms and the alkali metal salts of which have detergent properties, that includes converting said stock to a slurry of a water dispersable alkali metal salt thereof by discharging a mixture of said stock and an aqueous solution of an alkali metal hydroxide in finely divided form openly and through an extended path within the atmosphere of a zone maintained at an absolute pressure between about 9 to 88 mm. of mercury and at a temperature between about 50° to 120° F., limiting dehydration of the mixture to produce a flowable slurry, and flowing the slurry from said zone.

2,613,219

BORIC ACID ESTERS OF MONO-HYDROXYCYCLOALKANES

Margaret M. Clark, Mountain Lakes, N. J., assignor of one-half to Arthur R. Clark, Mountain Lakes, N. J.

No Drawing. Application October 20, 1949, Serial No. 122,589

6 Claims. (Cl. 260—462)

1. A partially dehydrated ester selected from the group consisting of the metaborate and pyroborate of a mono-hydroxycycloalkane containing 4 to 10 carbon atoms to the molecule of the mono-hydroxycycloalkane.

2,613,220

MANUFACTURE OF TRICHLOROACETIC ACID AND DERIVATIVES

Charles M. Eaker, Affton, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 14, 1950, Serial No. 190,247

13 Claims. (Cl. 260—487)

1. In a process for the production of trichloroacetic acid and compounds prepared therefrom, the step comprising chlorinating a mixture containing about 15% to about 75% glacial acetic acid and about 85% to about 25% acetic anhydride to approximately the trichloroacetic acid stage.

12. In a process for the production of commercially pure esters of trichloroacetic acid, the step comprising reacting an alcohol and a reaction product obtained by chlorinating a mixture containing from about 15% to about 75% glacial acetic acid and from about 85% to about 25% acetic anhydride to approximately the trichloroacetic acid stage.

2,613,221

PREPARING POLYHALOGENOALKENYL COMPOUNDS

Elbert C. Ladd and Merlin P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 30, 1948, Serial No. 24,444

7 Claims. (Cl. 260—493)

1. A method which comprises reacting a tetrahalogenoalkane containing a trihalogenomethyl group in which two of the halogens are chlorine and the third halogen is selected from the group consisting of chlorine and bromine, said trihalogenomethyl group being connected to an additional halogen atom by an aliphatic chain of two carbon atoms, with an alkaline substance selected from the class consisting of compounds of the type MA where M is a cation-forming atom, and A is a radical selected from the class consisting of acidyloxy, alkoxy, alkenylalkoxy, aryloxy, and amino radicals, and separating a compound of the type formula

$$X_2C{=}CR{-}CR'R''{-}A$$

where X is chlorine, and R, R′ and R″ are selected from the class consisting of hydrogen and a hydrocarbon radical.

2,613,222

PREPARATION OF ACRYLIC ACID AND ITS ANHYDRIDE

Edward H. Specht, Philadelphia, Andrew Neuman, North Hills, and Harry T. Neher, Bristol, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application April 6, 1951, Serial No. 219,752

11 Claims. (Cl. 260—533)

1. A process for preparing acrylic anhydride which comprises reacting together acetylene, nickel carbonyl, and acrylic acid at a temperature between 35° and 55° C. in the presence of an inert organic solvent which is at least partially miscible with water and while these substances are reacting together, introducing into the reacting mixture and therein reacting between 35° and 55° C. carbon monoxide and acetylene, the carbon monoxide supplying 20 to 60 mole per cent of the total carbonyl groups of both carbon monoxide and nickel carbonyl, the total acetylene being about equivalent to the total carbonyl groups, and the acrylic acid being used in a proportion about equivalent to the total carbonyl groups and to the nickel.

2,613,223

HYDROXYLATION OF OLEFINIC COMPOUNDS

Donald Peter Young, Sanderstead, England, assignor to The Distillers Company Limited, Edinburgh, Scotland, a British company

No Drawing. Application January 14, 1949, Serial No. 71,027. In Great Britain February 5, 1948

2 Claims. (Cl. 260—535)

1. Process for the hydroxylation of compounds with one olefinic linkage which comprises forming a solution of the olefinic compound, aqueous hydrogen peroxide and an oxide of a metal selected from the group consisting of tungsten and molybdenum and heating said solution in the presence of sulphuric acid at a temperature between 70° and 100° C. and thereafter separating the formed hydroxylated compound.

2,613,224

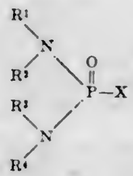
PROCESS FOR MAKING PHOSPHORAMIDES

Marvin Paulshock, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 20, 1950, Serial No. 150,820

3 Claims. (Cl. 260—545)

1. A process for making an oil having useful insecticidal properties which comprises mixing and heating metallic sodium and a compound represented by the formula



where R^1, R^2, R^3 and R^4 are each an alkyl group containing from 1 thru 5 carbon atoms and X is a halogen selected from the group consisting of chlorine and bromine.

2,613,225

α-PHENYLAMINO-PROPIONIC ACID AMIDINE AND ITS SALTS

Karl Miescher, Riehen, and Ernst Urech, Binningen, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application June 28, 1951, Serial No. 234,137. In Switzerland July 5, 1950

3 Claims. (Cl. 260—564)

1. A member selected from the group consisting of α-phenylamino-propionic acid amidine and its salts with acids.

2,613,226

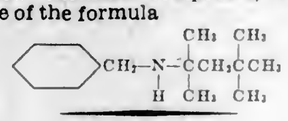
BENZYL-TERT.-OCTYLAMINE

W E Craig and Lawrence J. Exner, Philadelphia, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application January 5, 1951, Serial No. 204,690

1 Claim. (Cl. 260—570.9)

As a new chemical compound, benzyl-tert.-octylamine of the formula



2,613,227

CUMENE OXIDATION

George G. Joris, Convent, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application May 23, 1950, Serial No. 163,805

4 Claims. (Cl. 260—610)

1. The improvement in processes for oxidizing cumene in liquid phase by elemental oxygen to cumene hydroperoxide which comprises contacting said cumene with solid calcium carbonate during said oxidation.

2,613,228

PRODUCTION OF UNSATURATED FLUORINE-CONTAINING ALICYCLIC ETHERS

Robert P. Ruh, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 2, 1950, Serial No. 165,877

6 Claims. (Cl. 260—611)

1. A method of producing an unsaturated, fluorine-containing alicyclic ether that comprises subjecting (*a*) 1,2-dichloro-3,3,4,4-tetrafluoro cyclobutene to the action of (*b*) an acyclic hydroxy-substituted hydrocarbon having not more than four carbon atoms, not more than one ethylenic double bond, and no acetylenic unsaturation, in the presence of (*c*) a base of the group consisting of alkali metal hydroxides, alkali metals, and alkali metal salts of acyclic hydroxy-hydrocarbons having not more than four carbon atoms.

2,613,229

HYDROXYPENTACHLORODIMETHOXY-METHANOTETRAHYDROINDANE

Willard J. Croxall, Bryn Athyn, Pa., and John W. Dawson, Huntsville, Ala., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application December 9, 1950, Serial No. 200,088

1 Claim. (Cl. 260—611)

A hydroxypentachloro - 8,8 - dimethoxy - 4,7-methano-3*a*,4,7,7*a*-tetrahydroindane, obtained by reacting together 1,1-dimethoxy-2,3,4,5-tetrachlorocyclopentadiene and cyclopentadiene, whereby 4,5,6,7-tetrachloro-4,7-methano-8,8-dimethoxy-3*a*,4,7,7*a*-tetrahydroindene is formed, and reacting this compound with an aqueous solution of hypochlorous acid.

2,613,230

PROCESS OF LIMITING POLYMERIZATION

Joseph B. Niederl, Brooklyn, N. Y., assignor to J. B. Niederl & Associates, Inc., New York, N. Y., a corporation of New York

No Drawing. Application July 8, 1948, Serial No. 37,520

6 Claims. (Cl. 260—613)

1. A process which consists essentially in forming a mixture of and condensing p-tt-octylphenol with formaldehyde in the presence of less than equimolar quantities of a 2,4-di-alkyl-phenol in the absence of unalkylated phenol, the ratio of formaldehyde to alkylated phenols being equimolecular, and in the presence of a catalyst selected from the group of substances consisting of acids and alkalies.

2,613,231

PREPARATION OF CYCLOOCTATETRAENE

Alfred J. Canale, Moorestown, and John F. Kincaid, Mount Holly, N. J., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application March 9, 1950, Serial No. 148,734

4 Claims. (Cl. 260—666)

1. A process for preparing cyclooctatetetraene which comprises tetramerizing acetylene by contacting it with nickel monocyanide at 90° to 150° C. under a pressure of 100 to 600 pounds per square inch.

2,613,232

PROCESS FOR REMOVING ORGANIC FLUORIDES FROM HYDROCARBONS

Edward J. Janoski, Philadelphia, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application November 14, 1949, Serial No. 127,249

29 Claims. (Cl. 260—676)

1. Process for removing organic fluorides from hydrocarbons which comprises contacting a mixture of hydrocarbons and organic fluorides with sulfuric acid having a compound selected from the group consisting of a salt of a rare earth metal and an oxide of a rare earth metal incorporated therein.

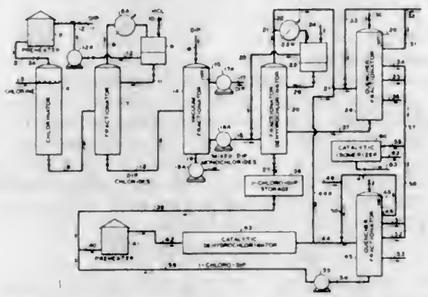
2,613,233

METHOD FOR PRODUCING UNSATURATED HYDROCARBONS

Donald R. Blumer, St. Paul, Minn., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 28, 1948, Serial No. 67,673

15 Claims. (Cl. 260—677)



1. A process for producing mono-olefinic hydrocarbons which comprises chlorinating 2,3-dimethylbutane under conditions such that monochloride derivatives of said hydrocarbon are the principal reaction products, separating thus produced monochloride derivatives from more highly chlorinated derivatives of said hydrocarbon, separating the primary monochloride derivative from the tertiary monochloride derivative by fractionally distilling the mixture of same at a kettle temperature effecting concomitant selective dehydrochlorination of the tertiary monochloride derivative and distillation of resulting mono-olefinic hydrocarbons and hydrogen chloride as overhead product, and removing liquid unconverted primary monochloride derivative as kettle product.

ELECTRICAL

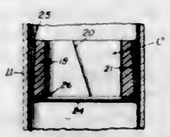
2,613,234

PLUG OR SEPTUM FOR ELECTROLYTIC CELLS

Marion Eppley, Portsmouth, R. I., assignor to The Eppley Laboratory, Inc., Newport, R. I., a corporation of Rhode Island

Application November 19, 1949, Serial No. 128,449

4 Claims. (Cl. 136—88)



1. In an electrolytic cell having a straight cylindrical portion of tubing, the combination with said tubing of a hollow frustrum shaped plug of non-porous synthetic plastic material and a layer of porous material covering the large end of the plug with the remainder of said layer passing over the plug toward the reduced end thereof, said plug and porous material disposed tightly within the tubing, and said plug being split generally longitudinally.

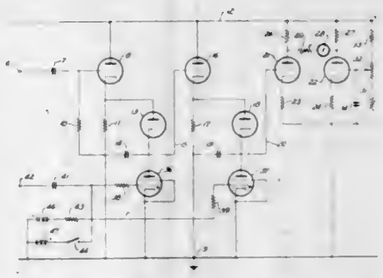
2,613,235

MEGA VOLTMETER

Carl E. Grunsky, Garden City, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application October 20, 1948, Serial No. 55,601

3 Claims. (Cl. 171—95)



1. In a measuring device, a first vacuum tube having input and output circuits, said output circuit being connected from the cathode of said first vacuum tube to ground and comprising a resistor, and a series-connected diode and capacitor in shunt with said cathode resistor, said capacitor being charged through said diode in response to a pulse to be measured which is applied to said input circuit, a second vacuum tube having input and output circuits, said output circuit being connected between the cathode of said second vacuum tube and ground and comprising a resistor and a series-connected second diode and second capacitor in shunt with said resistor, means connecting said first capacitor to the input circuit of said second vacuum tube, said second capacitor being charged through said second diode in response to the signal voltage applied to the input of said second vacuum tube circuit by said first condenser, vacuum tube voltmeter means for determining the value of charge on said second capacitor, and first and second gaseous discharge devices each containing at least a cathode, an anode, and a control grid, said first and second anodes being connected to one side of said first and second capacitors, said first and second cathodes being connected to the other side of said capacitors, and means for applying a voltage to the control grid of said gaseous discharge devices whereby said first and second capacitors are discharged.

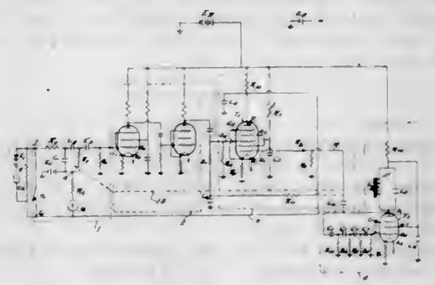
2,613,236

VOLTAGE MEASURING APPARATUS

Harry Palevsky, Chicago, and Robert K. Swank, Urbana, Ill., assignors to the United States of America as represented by the United States Atomic Energy Commission

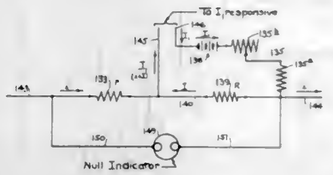
Application August 9, 1946, Serial No. 689,480

4 Claims. (Cl. 171—95)



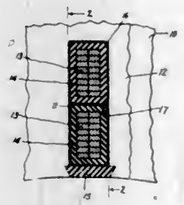
1. Apparatus for measuring direct voltage or charge comprising, in combination, a dynamic condenser adapted to convert an input direct voltage to an input alternating voltage, an oscillator coupled to said dynamic condenser, an alternating current amplifier, an isolating coupling circuit connecting the output of the dynamic condenser to the input of the amplifier including a plurality of cascaded resistance-capacity couplings, a synchronous detector comprising a vacuum tube having at least two control electrodes and an output circuit, means for coupling the oscillator to one of the control electrodes of the synchronous detector, means for coupling the output of the amplifier to the other of said control electrodes, means for connecting the output circuit of the synchronous detector in series opposition with the dynamic condenser, and means for measuring the direct voltage output of the synchronous detector.

2,613,237
CALCULATING TABLES AND THE LIKE
James H. Starr, La Grange, Ill.
Application August 27, 1947, Serial No. 770,850
8 Claims. (Cl. 171—95)



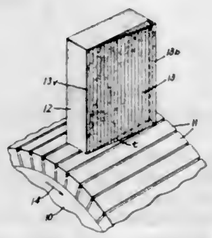
1. In a calculating board for the solution of networks by simulation, means for the measurement of selected simulating network currents including a known resistance arranged to carry the current to be measured, a second known resistance connected in series relation with the first mentioned resistance and arranged to carry a locally generated current, terminal connections to the ends of said first mentioned and said second mentioned resistances, respectively, remote from the point of series connection therebetween, a local current source, means for adjusting the current in said second resistance to produce zero voltage drop across the first mentioned and second mentioned resistances in series when said simulating network current is flowing between said terminals, means for indicating said zero voltage drop condition, and current responsive indicating means responsive to the sum of currents in said first mentioned and said second mentioned resistances, whereby the current producing an indication on said indicating means is related to the said simulating network current by a predetermined multiplying factor which factor is a definite function of the relative magnitudes of said first and said second known resistances when said zero voltage drop condition is indicated by said zero voltage drop indicating means.

2,613,238
ELIMINATION OF CORONA IN ELECTRICAL APPARATUS
Robert W. Wieseman, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 27, 1951, Serial No. 238,887
3 Claims. (Cl. 171—252)



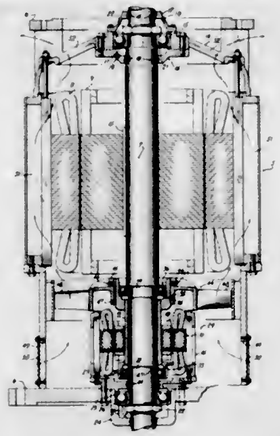
1. In electrical apparatus having a magnetic core member provided with winding slots, the combination of a coating of a semi-conducting material on the walls of said slots, high voltage insulated conductors located in said slots, and a semi-conducting coating covering the insulation of said conductors adjacent said coating of semi-conducting material on the walls of said slots.

2,613,239
DYNAMOELECTRIC MACHINE BRUSH
Richard T. Lundy, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 14, 1950, Serial No. 173,804
4 Claims. (Cl. 171—325)



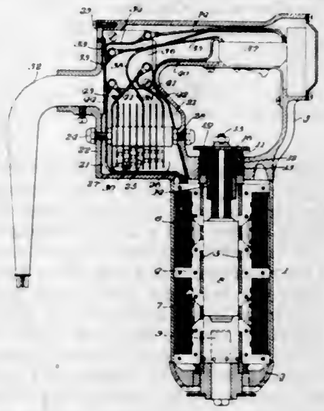
1. A brush for a dynamoelectric machine comprising a solid rectangular body portion of low resi tance carbonaceous material and a wedge shaped assembly of laminations of carbonaceous material each abutting on one side face of said rectangular body portion and progressively ranging in length and in unit resistivity from a short lamination of low resistance material at the V of said wedge to a long lamination of high resistance material at the base of said wedge.

2,613,240
MEANS FOR COOLING HEAVY DUTY MOTORS
Russell I. Robinson, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 11, 1950, Serial No. 184,145
3 Claims. (Cl. 172—36)



1. In a heavy duty electric motor having a housing provided with ventilating openings adjacent to its opposite ends, a heavy duty motor in one end portion of the housing, an impeller equipped cooling motor in the other end portion of the housing, each of said motors including a stator fixed with respect to the housing and an armature encircled by the stator, characterized by the provision of: a single motor shaft encircled by said armatures and journalled in bearings on the ends of the housing, and having the armature of the heavy duty motor fixed thereto; a sleeve rotatably journalled on the motor shaft by bearings confined between the shaft and the walls of bearing hubs formed on the ends of the sleeve, said sleeve having the armature of the cooling motor fixed to its exterior, and the impeller being mounted on the bearing hub of the sleeve adjacent to the heavy duty motor; and a frame upon which the stator of the cooling motor is mounted, said frame being secured to the end of the housing remote from the heavy duty motor and being radially spaced from the surrounding housing walls to permit the passage of cooling air therebetween.

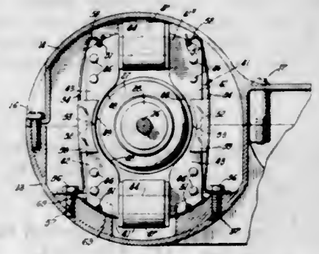
2,613,241
ELECTRIC HAMMER WITH RECTIFIER IN HANDLE
Carl S. Weyandt, Homer City, Pa.
Application September 19, 1949, Serial No. 116,509
4 Claims. (Cl. 172—126)



1. An electric hammer comprising a housing, a free piston of magnetic material reciprocable in said housing, spaced coils carried by said housing to electromagnetically actuate the free piston and having their adjacent ends connected together, a unidirectionally assembled rectifier stack and switch means for opening the line current mounted on said housing, a tri-conductor current supply cable having one conductor for ground connected to said housing and the other two conductors to supply alternating current to said switch means, conductors from the two poles on the other side of said switch to the center of the rectifier stack and the common coil connection respectively, and conductors between the other ends of said coils and the ends of the rectifier stack, respectively thereby eliminating external control and reducing the external connections to the primary power supply.

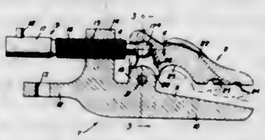
2. An integral handle casting for an electromagnetic reciprocating hammer consisting of a transverse handgrip having spaced therefrom an annular reciprocating motor housing, an integral wall on one end of the handgrip extending to said housing and annularly shaped to form a chamber open on one end thereof, a disc rectifier having mounting means engageable with the wall of the chamber to support the rectifier in the chamber with the discs lying parallel with the axis of the reciprocating motor housing, and a closure member for said chamber.

2,613,242
ELECTRIC MOTOR WITH SPLIT POLE PIECES
Howard A. Shumaker, Amherst, Ohio, and Edgar P. Turner, Fanwood, N. J., assignors to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application February 10, 1949, Serial No. 75,552
7 Claims. (Cl 172—278)



1. A split frame electric motor comprising a lower frame, a lower pole piece supported by an internal portion of said lower frame, an upper pole piece identical in form to said lower pole piece, a pair of spring clips carried by said lower frame, and a hook on the upper end of each of said spring clips, said hooks engaging said upper pole piece and thereby holding said two pole pieces together.

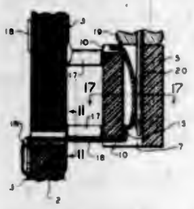
2,613,243
SAFETY GROUND CLAMP
Oscar W. S. Frear, Williamsport, Pa.
Application November 5, 1948, Serial No. 58,473
1 Claim. (Cl. 173—273)



A high tension line satety ground clamp for the protection of workmen working on deenergized or "dead" electrical equipment which has been temporarily taken out of service for repair comprising a relatively stationary jaw unit embodying a one-piece elongated body of current conducting material fashioned at one end into a relatively long substantially flat faced jaw, and fashioned at its other end into an apertured line attaching lug, said lug being in a substantial plane with said body and jaw, said jaw being provided intermediate its ends with a lateral ear, and said body being provided adjacent said ear and inwardly of the apertured lug with a permanent lateral extension, the latter substantially paralleling and being in alignment with said ear and having a screw-threaded hole in approximate parallelism with said jaw and constituting a mount for a feed screw, a relatively movable jaw unit also of current conducting material and including a body portion having a jaw opposed to said first-named jaw and swingable toward and from the latter, said relatively movable jaw unit being of a length approximately equal to that of said first-named jaw and having an end portion terminating in close spaced parallelism with said mount and provided with a cavity forming a socket, said socket hooding over said ear and being open on the side facing and confronting said extension and open at the bottom and having spaced parallel ears straddling and hingedly connected with said ear, the walls of said socket be-

ing at approximate right angles to said first jaw and characterized by inclined planes of predetermined inclinations, and a metal feed screw overlying said lug in spaced parallelism and adjustably mounted in the screw-threaded hole and having tool accommodating means at one end extending beyond said lug and a ball jointing head at the opposite end, said head fitting into and being swivelly and positively coupled with said socket, said head having end thrust cam coaction with the inclined walls in said socket, said ball and socket connection being in close proximity to the hinge connection between said ears.

2,613,244
ELECTRIC SOCKET FOR MINIATURE TUBES
Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application September 2, 1948, Serial No. 47,365
6 Claims. (Cl. 173—328)



5. A vacuum tube socket installation comprising an insulating panel having at least one aperture therein, a conducting element affixed to a surface of said panel adjacent said aperture, a socket body having a plurality of prong-receiving bores extending through said body from one end face to an opposite end face substantially parallel a side face of said body, a contact member including a resilient prong-engaging portion having an element extending out of the plane thereof and engaging one end face of said body and a terminal portion extending in substantially perpendicular relation to said prong-engaging portion, said termnal portion having an element engaging an opposite end face of said body and combining with said first mentioned body-engaging element to secure said contact member to said body, said terminal portion having laterally extending portions in engagement with said socket body and said panel for spacing said socket body from said panel, the free end of said terminal extending through said aperture of said panel and being electrically engaged with said conducting element.

2,613,245
WALL MOUNTED ELECTRIC OUTLET
Irenee Brouillette, Montreal, Quebec, Canada
Application March 3, 1950, Serial No. 147,550
4 Claims. (Cl. 173—330)



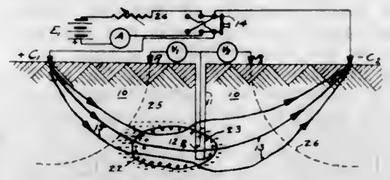
1. An electric outlet comprising a solid cylindrical body having an outward flange at one end and threaded on the outside and made of insulating material and adapted to be inserted into a hole of a partition, a nut engaging said threads for securing said body to said partition, said body having spaced bores extending therethrough, said bores having a restricted portion defining a shoulder therewithin, electrical contact prongs positioned entirely within said bores and abutting said shoulders, resilient contacts disposed at the other end of said body, electrical connectors extending within said restricted portion of said bores and securing said prongs and resilient contacts together and to said body, a cap housing, electrical contacts mounted on said housing, a threaded coupling affixable to said body in threaded engagement, said last mentioned electrical contacts abutting said resilient contacts when said housing is secured to said body by means of said coupling.

2,613,246
MAGNETIC SYSTEM
Heinrich Spodig, Dortmund-Wambel, Germany
Application May 4, 1950, Serial No. 159,919
In Germany October 1, 1948
7 Claims. (Cl. 175—21)



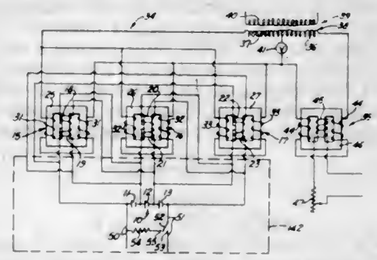
1. A magnet system for attracting magnetizable particles contained in a freely-flowing medium comprising a pair of permanent magnets, each having a north and a south pole, two outer plates of soft magnetic material spaced from each other, and an intermediate plate of soft magnetic material disposed between said outer plates and spaced therefrom, said intermediate plate being disposed between and in contact with identical poles of said magnets, each of said outer plates being in contact with the remaining pole of a magnet, said outer plates extending throughout their contour beyond said intermediate plate and said magnets to form a free, substantially unobstructed space between said outer plates, said intermediate plate and said magnets, whereby substantially no magnetic lines of force originate from the outer surfaces of said outer plates while the magnetic field from said intermediate plate is very strong.

2,613,247
METHOD OF GEOPHYSICAL PROSPECTING
Frederick W. Lee, Baltimore, Md.
Application March 19, 1948, Serial No. 15,947
8 Claims. (Cl. 175—182)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A method of prospecting for polarized geologic bodies below the earth's surface comprising the steps of selecting a central station, selecting a pair of potential application points one on each side of said central station and both substantially on an azimuthal line extending through said station, selecting two measuring points each of which is between said station and one of said application points, applying a first unidirectional potential of one polarity between said application points, measuring the potential between the central station and each of said two potential measuring points during application of the first unidirectional potential, applying a second unidirectional potential of the opposite polarity, measuring the potential between said measuring points and said central station during the application of said second potential, selecting at least one other pair of potential application points on a different azimuthal line, repeating with respect to the other pair of potential application points the steps of measuring potentials as set forth for a unidirectional potential of two polarities, and the steps of measuring potential as set forth for the first pair of potential application points, plotting the ground conductivity as to all azimuthal lines used for both polarities of applied potential to determine the location of adjacent polarized geologic bodies.

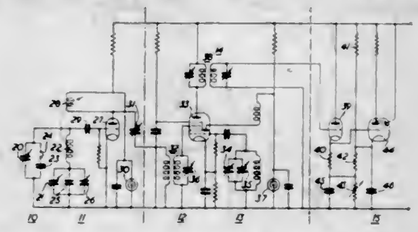
2,613,248
BATTERY TESTING APPARATUS AND METHOD
Soren L. Christie, Los Angeles, Calif., assignor to McColpin-Christie Corp., a corporation of California
Application March 22, 1948, Serial No. 16,258
22 Claims. (Cl. 175—183)



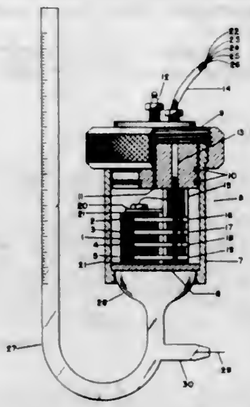
1. In an apparatus which is responsive to the condition of a battery having at least three cells and which includes a single instrumentality responsive to the maximum difference between the voltages of the battery cells, the combination of: electric circuit means connectible to the battery cells for producing at least two electric quantities respectively variable with variations in any voltage differences between the battery cells; and means connecting said electric circuit means and said instrumentality for combining said electric quantities into a single value applied to said instrumentality and proportional to the maximum difference between the voltages of the battery cells.

2,613,249
TESTING INSTRUMENT
Alfred Thomas Symonds Babb, Wembley, England, assignor to J. Lyons and Company Limited, London, England, a British company
Application December 23, 1948, Serial No. 67,025
In Great Britain September 9, 1947
2 Claims. (Cl. 175—183)

1. A moisture content meter, comprising in combination, a cell for the material under test, said cell having a capacitance; a first manually variable capacitor; a second manually variable capacitor connected in parallel with said first variable capacitor; an inductor, said cell, said variable capacitors in parallel, and said inductor being connected in series so as to form a high frequency resonant circuit; a capacitor having a predetermined capacitance; manually controllable switch means for effectively connecting said capacitor having a predetermined capacitance in said resonant circuit; means for inducing in said resonant circuit electric oscillations of frequency equal to the resonance frequency of said resonant circuit; a generator of oscillations of frequency different from the high frequency of said resonant circuit; means for mixing oscillations from said resonant circuit with oscillations from said generator to produce a beat note of low radio frequency; filter means for selecting said beat note; and indicating means responsive to a change of frequency of the beat note produced by said mixing means.



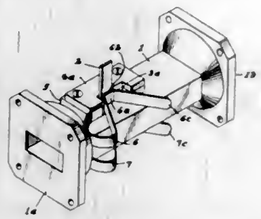
2,613,250
METHOD FOR MEASURING RESISTIVITY OF EARTH SAMPLES
Harrell L. Bilhartz and Henry F. Dunlap, Dallas, Tex., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 6, 1950, Serial No. 188,768
7 Claims. (Cl. 175—183)



1. The method of determining the variation of electrical resistivity of an earth sample with the brine saturation of said sample which comprises washing said sample to remove substantially all impurities therefrom, saturating said sample with a selected brine, and thereafter measuring the resistance to flow of electric current through a plurality of selected increments of said sample intermediate the ends thereof, applying pressure to the sample through the medium of a non-conducting displacing fluid to reduce the brine saturation of said sample to a selected

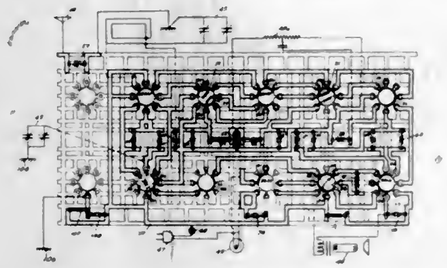
value, and again measuring the resistance to flow of electric current through the same said selected increments of said sample.

2,613,251
RESISTANCE COMPARATOR
John E. Ebert, Woodside, N. Y., assignor to Polytechnic Institute of Brooklyn, Brooklyn, N. Y., a corporation of New York
Application February 11, 1947, Serial No. 727,839
12 Claims. (Cl. 175—183)



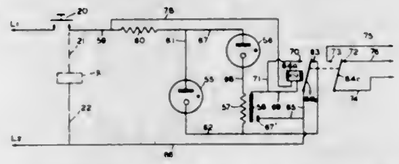
1. A device for comparing resistors of plate-like form comprising, a section of rectangular wave guide adapted to transmit electromagnetic waves of high frequency and having a passageway formed therein for the passage of said resistors transversely through said guide and comprising aligned slots formed in the broad walls of said guide, said slots being formed near the center of said walls, longitudinally thereof, and being of a size such that said plate-like resistors may be passed through said slots, and means arranged on the outside of said waveguide adjacent each slot and forming a guideway for inserting said resistors into said slots from either side of said waveguide.

2,613,252
ELECTRIC CIRCUIT AND COMPONENT
Jerome D. Heibel, Erie, Pa., assignor to Erie Resistor Corporation, Erie, Pa., a corporation of Pennsylvania
Application September 23, 1947, Serial No. 775,649
18 Claims. (Cl. 175—298)



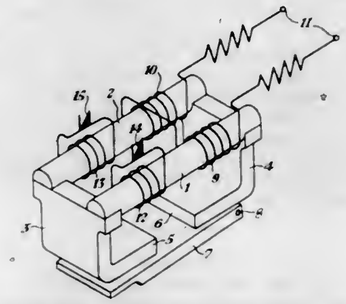
5. In an electric circuit containing a plurality of unitary independently manufactured circuit elements such as resistors and condensers and circuit interconnections between the elements, a metal mesh generally in the form of a sheet and containing terminals for external connection of the circuit, clips for receiving the terminals of unitary independent circuit elements and circuit interconnections between the mesh terminals and clips, the circuit interconnections including those necessary for a plurality of different circuits whereby some of the interconnections are unwanted for any particular circuit, separately manufactured circuit impedance elements having terminals making frictional electric contact with the clips, flowable plastic molded around and embedding the mesh and elements and the frictional contacts between the element terminals and clips, and means providing access for severing unwanted circuit interconnections.

2,613,253
ELECTRICAL CONTROL
George H. Lister, Cleveland, Ohio, assignor to The Electronic Research and Manufacturing Corporation, Cleveland, Ohio, a corporation of Ohio
Application December 7, 1946, Serial No. 714,821
5 Claims. (Cl. 175—320)



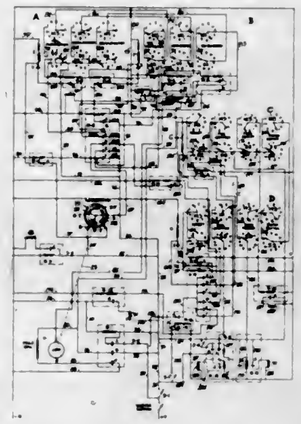
1. In combination, a source of alternating current, a space discharge device and an associated current limiting resistor in circuit therewith, said device and resistor connected with said source, said device being adapted to pass current only above a predetermined lower voltage level, a second space discharge device connected in circuit with said source and in shunt circuit around said first device and said current limiting resistor, said second device being adapted to pass current only above a predetermined higher voltage level, whereby said first device passes current at each alternating current cycle only between said two voltage levels, means heated by the current passing said first device, a pair of contacts, and said last named means positioned to close said contacts upon receiving a predetermined amount of heat.

2,613,254
ELECTRIC RELAY
Kenneth Gordon King, London, England, assignor to Westinghouse Brake and Signal Company Limited, London, England
Application May 5, 1950, Serial No. 160,127
In Great Britain May 11, 1949
3 Claims. (Cl. 175—335)



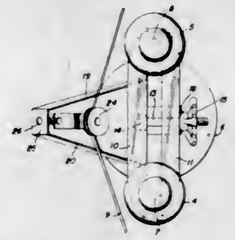
1. In an alternating current relay of the tractive armature type, a main magnetic circuit including a pair of parallel spaced magnetic core members and a pair of magnetic yokes one connected across each end of said core members, each said yoke having an extended pole member, said two pole members extending in the same direction from the plane of said core members, a rectangular armature having one end pivotally mounted adjacent one of said pole members and its other end attractively movable with respect to the other pole member, said two pole members and armature in series being an auxiliary magnetic circuit between said yokes, an exciting winding mounted for magnetic relationship with said main magnetic circuit to create a magnetic flux in the main magnetic circuit when supplied with current, said flux flowing in the main magnetic circuit exclusive to said auxiliary magnetic circuit due to the connection of said yokes between said core members, a pair of auxiliary windings one mounted on each of said core members, each said auxiliary winding inductively receiving an alternating electromotive force when alternating flux flows in the respective core member, a pair of half wave rectifiers one connected across each said auxiliary winding, each said auxiliary winding and connected rectifier in its forward direction being a low resistance circuit in which rectified current flows to create a unidirectional flux in the corresponding core member when an alternating electromotive force is induced in the auxiliary winding, said unidirectional flux opposing in the core member a given half cycle of the alternating flux flowing in the main magnetic circuit when alternating current is supplied to said exciting winding and forcing corresponding flux to thread said auxiliary magnetic circuit, and said rectifiers poled reverse to each other, whereby the armature is attracted only when alternating current is supplied to the exciting winding and the relay is immune to direct current and unidirectional flux flows in the pole members and armature in series and chattering is avoided.

2,613,255
CONTROL SYSTEM
Louis Kahn, New Bedford, Mass., assignor to Aerovox Corporation, New Bedford, Mass., a corporation of Massachusetts
Application November 10, 1947, Serial No. 785,018
6 Claims. (Cl. 175—373)



1. An electrical control system comprising an electric motor, means to start said motor, a first set of automatically rotatable switches, a second set of automatically rotatable switches, electromagnetic means associated with each of said sets of switches intermittently to rotate the latter, means driven by said motor for automatically delivering periodic impulses to said electromagnetic means to energize the latter, said means comprising a commutator driven by said motor, said commutator comprising a continuous conducting ring and a segmental conducting ring insulated from said continuous conducting ring and comprising a plurality of conducting segments each insulated from the other, one of said segments being connected to said continuous ring, a brush normally engaging said continuous conducting ring and connected to said electromagnetic means associated with said first set of switches, a pair of brushes adapted simultaneously to engage successive segments of said segmental ring, one of said brushes being connected to a source of current and the other of said brushes being connected to said electromagnetic means associated with said second set of switches whereby upon each complete revolution of said commutator, and engagement by the brush of said pair of brushes connected to said source of current with said segment connected to said continuous conducting ring, a circuit will be completed through said brush engaging said continuous conducting ring to said electromagnetic means associated with said first set of switches and upon each engagement of each of said segments of said segmental conducting ring with said pair of brushes, a circuit will be completed through said brushes to said electromagnetic means associated with said second set of switches.

2,613,256
WIRE STRINGING DEVICE
Henry C. Thomas, Orangeburg, S. C.
Application February 10, 1950, Serial No. 143,420
6 Claims. (Cl. 175—376)



1. A device for stringing and sagging in wires comprising a pair of elongated clamp members, said members being of substantially the same length, clamping means joining said member for clamping said members to a pair of spaced insulator supporting pins beneath the insulators, a bracket extending outwardly from the mid-portion of one of said clamp members and having the free end thereof extending upwardly beyond the upper ends of said insulators, a grooved pulley for supporting the wire to be sagged in, a pulley support including means for mounting said pulley for rotation on its axis, adjustable means supporting said pulley support from the upper end of said bracket and in a position such that said pulley is located to one side of said insulator pins and substantially equidistant therefrom, said adjustable supporting means providing for movement of said pulley in substantially a horizontal direction to enter the space between the tops of said insulators.

2,613,257
WIRE CREEPER
Edward Wollet, Lakewood, Ohio
Application June 3, 1950, Serial No. 165,909
3 Claims. (Cl. 175—376)

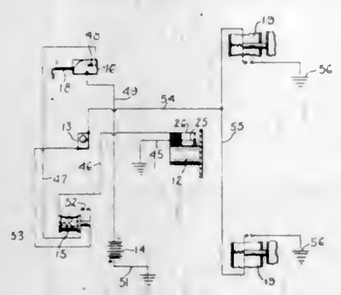
1. A wire creeper and stringer comprising in combination with a pre-strung wire, an elongated body of frame-like form, a traveler (or

creeper) slidably mounted on and supported by a horizontal rod extending lengthwise of and supported in such body, the said traveler adapted to be propelled on the said pre-strung wire, a block pivotally supported underneath and in conjunction with the said traveler and having its upper end surface provided with means for contacting and gripping the said wire, a forward block pivotally supported in said body and derively in position beneath the said wire, a pulley sheave provided in each of the lower end



portions of the said pivotally supported blocks, said pulleys adapted to receive a rope for operating the device, one end of said rope attached to the said forward pivotal block and the free end being passed around the said pulley in the said rear pivotal block, then forward around said pulley in said forward pivotal block, said free end then passes out through and beyond the rear end of the said body, a spiral spring having its one end attached to and within such body, and its opposite end secured to the lower end of the said rear pivotal block.

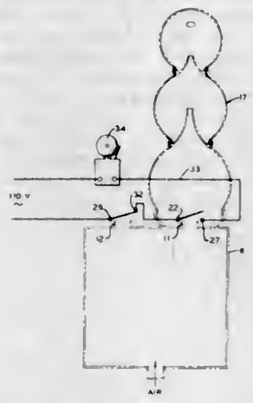
2,613,258
PROTECTIVE SIGNAL DEVICE FOR AUTOMOBILES
Anthony Azano, New Haven, Conn.
Application December 31, 1948, Serial No. 68,675
4 Claims. (Cl. 177—311)



1. A signal system for an automobile having an ignition lock and a key to operate said lock, said system comprises an electrical circuit including, in series, a signal, a source of current, a switch actuated by movement of the door of the automobile, and a second switch to connect the circuit to said current source, and means for closing said second switch, said means comprising a normally open circuit closed by the insertion of the key in the lock and by lack of suction in the motor.

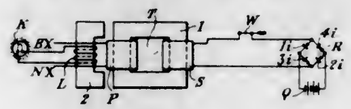
2,613,259
SMOKE-OPERATED ELECTRICAL ALARM DEVICE
Sante Giudice, Owosso, Mich.
Application March 17, 1949, Serial No. 81,911
9 Claims. (Cl. 177—311)

1. A smoke-operated electrical alarm device comprising a chamber having a plurality of outlets through which air is circulated, an electrical alarm circuit, means movably mounted adjacent one of the outlets for opening and closing said circuit, means movably mounted adjacent the other outlet for opening and closing said circuit, an aspirator connected to circulate air through the chamber and discharge it through both of said outlets against said movable means for holding one of said means in open-circuit position



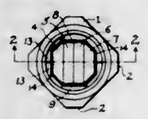
and the other means in closed-circuit position, and means for reducing the rate of flow of the air through one of said outlets to permit the movable means which is in open-circuit position to move to closed-circuit position when the air is contaminated with smoke.

2,613,260
INDICATOR FOR ALTERNATING ELECTRIC CURRENT TRANSFORMERS
Sydney Arthur Stevens, London, England, assignor, by mesne assignments, to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application November 7, 1947, Serial No. 784,671
In Great Britain April 24, 1947
4 Claims. (Cl. 177—311)



1. In combination, a transformer comprising a primary winding and a secondary winding on a core, a leakage block for said core, a leakage flux winding surrounding said leakage block, and an indication device energized by current from said leakage flux winding only if said primary winding is energized and said secondary winding is in a closed circuit.

2,613,261
UNDERWATER TRANSDUCER
Frank Massa, Cleveland Heights, Ohio
Application December 8, 1948, Serial No. 64,148
10 Claims. (Cl. 177—386)



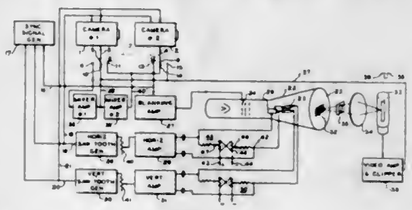
1. In an underwater transducer capable of generating or receiving sound waves in the lower audible frequency range, an assembly of one or more piezo-electric crystal elements, each element having a pair of end faces and a number of side faces, each element characterized in that an electrical voltage will be generated within the element by the application of an alternating mechanical pressure along an axis normal to said pair of end faces and also along an axis at right angles to said normal axis, a rigid walled housing structure having at least one open end surrounding said crystal assembly, the inner wall of said housing structure being closely spaced from at least one of the side faces of said crystal assembly, at least one of the end faces of said crystal assembly being exposed through the open end of said housing and a layer of material of lower acoustic impedance than the crystal substance substantially filling the space between the inner wall of said housing and the side face of the crystal element mounted within said housing, the thickness of said low acoustic impedance material being of the order of 10% or less of the crystal element dimension measured in a direction at right angles to the surface of said low acoustic impedance material.

2,613,262
TAPE PRINTER
Jacob H. Drillick, Brooklyn, N. Y.
Application October 17, 1950, Serial No. 190,600
8 Claims. (Cl. 178—4)



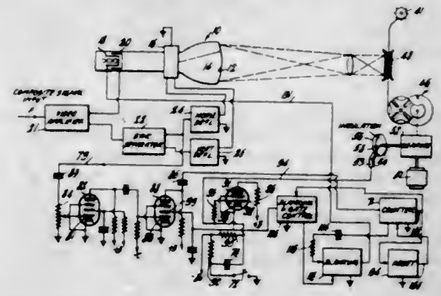
1. In apparatus for printing a message upon a single tape in response to a series of consecutive signals corresponding to consecutive characters of the message, means for dividing said signals into two or more complementary series of spaced signal groups, a separate teleprinter corresponding to each of said complementary signal series and responsive thereto, a single tape for receiving printed characters, said tape being adapted to pass through said teleprinters in series, and means for synchronizing the operation of said teleprinters so that the totality of characters imprinted on said tape forms a single consecutive series corresponding in order to the original series of consecutive signals.

2,613,263
PLURAL CAMERA TELEVISION TRANSMITTER WITH ELECTRONIC WIPEOUT CONTROL
Earl D. Hilburn, Silver Spring, Md.
Application April 8, 1949, Serial No. 86,273
7 Claims. (Cl. 178—7.2)



1. A wipe-out control system for television comprising separate means for simultaneously and synchronously scanning two object areas and a portion of a control area to produce independent series of signals, said control area comprising high and low light transferring portions, means for suppressing the signals from one of the object areas when the high light transferring portion of the control area is being scanned, means for suppressing the signals from the other object area when the low light transferring portion of the control area is being scanned, means for combining the unsuppressed signals, and means comprising potentiometers for controlling the size and the position of said portion of said control area with respect to said control area.

2,613,264
IMAGE RECORDING APPARATUS
Harold E. Haynes, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 4, 1949, Serial No. 125,538
1 Claim. (Cl. 178—7.4)

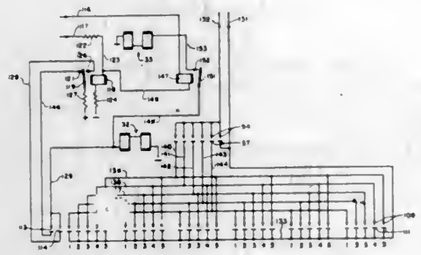


A recording system for recording television images comprising a cathode ray tube and means for causing operation of said tube to produce images, said means including a sync pulse separator, a camera for photographing said images, an electronic counter, means to feed sync pulses to said counter from said sync pulse separator comprising a vacuum tube having at least a cathode, an anode, a control grid, and a screen grid, a gaseous discharge tube, means whereby said gaseous discharge tube varies the voltage applied to said screen grid, means including a connection from said camera whereby said gaseous discharge tube acts normally under control of said camera to control the feeding of sync pulses to said counter, electronic means capable of completing a circuit and being effectively in series with said gaseous discharge tube, means for controlling said electronic means from said counter to interrupt its conductivity and hence the conductivity of said gaseous discharge tube, and additional means for controlling said gaseous discharge tube comprising a manually operable switch connected to said connection from said camera, a resistor and capacitor combination effectively in series with said switch and with a source of D. C. biasing voltage, and a discharge resistor shunting said resistor and capacitor.

2,613,265
MESSAGE NUMBERING DEVICE
Ralph H. Halvorsen, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application July 9, 1949, Serial No. 103,769
12 Claims. (Cl. 178—17)

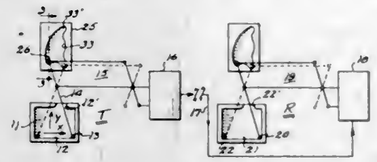
1. In an automatic telegraph transmitter having a signaling channel connected thereto, a plurality of signal generating means for generat-

ing permutative signals, each of said permutative signals representing numerical digits, means for advancing each of said signal generating means to vary the numerical digits in consecutive numerical order, sequentially operable means for successively connecting each of the signal generating means to the signaling channel, a first circuit for operating said sequentially operable means to connect each of said signal generating means to the signaling channel, whereby con-



secutively generated permutative signals represent identical multi-digit numerals, and a second circuit including means for actuating the advancing means to advance one or more of said signal generating means to generate consecutive multi-digit numerical signals consecutively, said second circuit also including the circuit for operating the sequentially operable means of the first circuit to transmit the generated multi-digit numerical signal to the signalling channel.

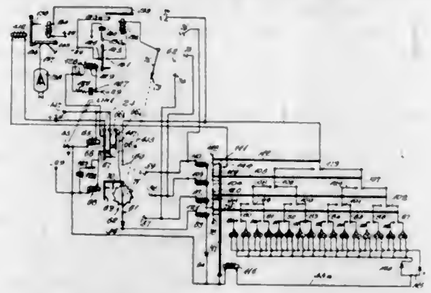
2,613,266
MARGIN GUIDE FOR TELE-AUTOGRAPHIC APPARATUS
Thomas I. Ress, Evanston, Ill., assignor to Consolidated Electric Company, Chicago, Ill., a corporation of Illinois
Application April 27, 1950, Serial No. 158,568
10 Claims. (Cl. 178—18)



1. In tele-autographic apparatus including a writing surface of restricted area and a writing head arranged to move to any point within said restricted area; a cam member having a continuous interior cam surface; and a cam follower connected to such head, said cam follower cooperating with said cam member whereby said cam member restricts the movement of said cam follower to the area encompassed by said cam surface, said cam surface defining the path followed by said cam follower as said head is moved along the edges of such writing surface.

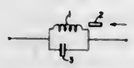
2,613,267
PRINTING TELEGRAPH SYSTEM
James D. Durkee, Fairlington, Va.
Application January 23, 1950, Serial No. 139,977
5 Claims. (Cl. 178—23)

1. In a printing telegraph system, a type bar printer including at the printing position thereof a platen for supporting and advancing the printer copy, a printing ribbon aligned with said platen at the instance of striking of the printer copy by a type bar, an error indicator device movable into the path of impact of the type bar with the print-



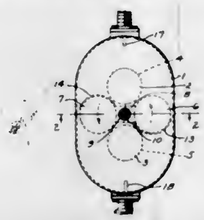
ing ribbon and the printer copy for indicating failure of receipt of the required signal code impulse permutations and combinations for effecting the selection and printing of the intended character.

2,613,268
BROAD BAND-PASS CIRCUIT ARRANGEMENT
Alphonsus Maria Jacobus Jaspers, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 28, 1948, Serial No. 29,896
In the Netherlands June 21, 1947
2 Claims. (Cl. 178—44)



1. A broad band-pass circuit arrangement, particularly for passing high-frequency electrical oscillations, consisting solely of an inductance coil having a core of ferromagnetic material and a capacitor in parallel with the coil, said core material consisting essentially of a mixed crystal ferrite, said core material having a magnetic permeability $\mu = Cf^{-m}$ wherein C is a constant, f is a frequency of oscillation, and m is a number lying between 0.8 and 2.

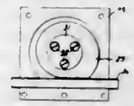
2,613,269
WIDE RANGE ULTRAHIGH FREQUENCY TUNING CAVITY
Harry E. S. Stockman, Waltham, Mass.
Application June 23, 1950, Serial No. 169,951
7 Claims. (Cl. 178—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A tuning device comprising metallic means forming an oblong resonant cavity having paral-

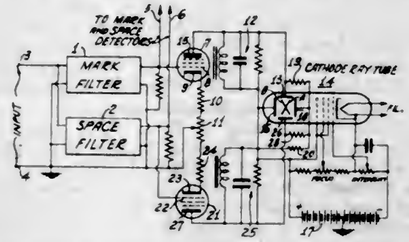
lelly arranged upper and lower inner surfaces; conductive means extending from opposite positions on said upper and lower surfaces and forming oppositely disposed relatively widely spaced electrodes, each of said electrodes being centered relative to the longitudinal axis of said cavity; a conductor having a length slightly less than the transverse dimension of said cavity, a thickness slightly less than the space between said oppositely disposed electrodes and a width commensurate with the cross-sectional dimensions of said electrodes; means for supporting said conductor within said cavity and for moving said conductor to any position between and including two extreme positions, one of said extreme positions being that in which the longitudinal axis of said conductor is parallel to the longitudinal axis of said cavity and said conductor is positioned between said oppositely disposed electrodes, and the other of said extreme positions being that in which the longitudinal axis of said conductor is transverse to the longitudinal axis of said cavity; and means for coupling input and output circuits to said cavity.

2,613,270
WAVE GUIDE ATTENUATOR
Paul B. King, Jr., Mountain Lakes, N. J., assignor to Aircraft Radio Corporation, Boonton, N. J., a corporation of New Jersey
Application May 24, 1946, Serial No. 671,950
15 Claims. (Cl. 178—44)



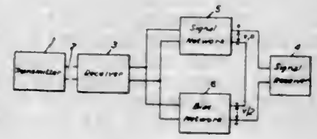
1. In a wave guide of adjustable transmission characteristics, means defining a wave guide passage having a slot at its transverse medial plane, an arcuate attenuator element, and means supporting said attenuator element for rotary motion to project the same through said slot to enter the wave guide passage, said supporting means comprising a pair of complementary plates with recessed inner faces between which said attenuator strip is located.

2,613,271
TUNING INDICATOR FOR FREQUENCY SHIFT TELEGRAPHY
Bertram A. Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application April 7, 1950, Serial No. 154,650
12 Claims. (Cl. 178—69)



1. A tuning indicator for a frequency shift telegraphy receiver adapted to receive alternatively-present signals of one frequency representing mark and signals of another frequency representing space, comprising first selective means for passing signals of mark frequency and attenuating signals of space frequency, second selective means for passing signals of space frequency and attenuating signals of mark frequency, means for applying signals of mark frequency to said first selective means, means for applying signals of space frequency to said second selective means, a cathode ray tube having means for producing an electron beam, deflecting means operative on said beam, and receptive of the output of said first selective means, for deflecting said beam in one sense in accordance with the output of said first selective means, and deflecting means operative on said beam, and receptive of the output of said second selective means, for deflecting said beam in a different sense in accordance with the output of said second selective means.

2,613,272
CARRIER TELEGRAPH SYSTEM
Victor John Terry, Thomas Frederick Stanley Hargreaves, and Hector Thomas Prior, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application November 30, 1949, Serial No. 130,326
In Great Britain December 3, 1948
21 Claims. (Cl. 178—88)

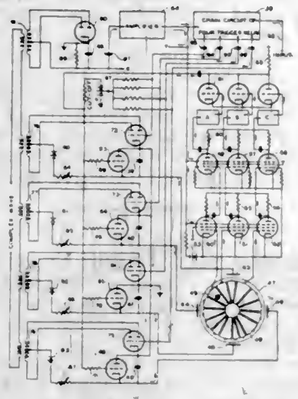


1. An electric telegraph receiver for receiving a signal wave, said receiver comprising means for converting said signal wave into a second signal wave having a maximum slope at predetermined times and having an amplitude dependent upon the amplitude of said first-mentioned signal wave, means for converting said first-mentioned signal wave into a third signal wave having a predetermined maximum amplitude substantially independent of the amplitude of said first-mentioned second wave, means for converting said third signal wave into a biasing voltage and means for combining said second signal wave and said voltage.

2,613,273
SPEECH WAVE ANALYSIS
Meguer Kalfaian, Asbury Park, N. J.
Application January 23, 1947, Serial No. 723,881
5 Claims. (Cl. 179—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. The system of translating speech waves into discrete signals corresponding to the phonetic characters represented by the speech, which comprises means for subdividing the speech waves into wave trains of minor wave-peaks that occur between major wave-peaks, four storage elements, means for producing electric quantities substantially proportional to said minor peaks, distributor means to distribute said quantities among the storage elements in a pre-arranged sequence, so as to produce four totalized quantities at the end of each wave train, means for producing a ray, means for deflecting that ray in a first direction substantially in proportion to the difference between two of the totalized quantities, means for simultaneously deflecting that ray in a second direction substantially perpendicular to the first

direction in substantial proportion to the difference between the other two of the totalized quantities, so that the resultant deflection may take various directions depending on the ratio of said differences, a plurality of target sectors at predetermined directions from the undeflected path of the ray, said targets being adapted to receive

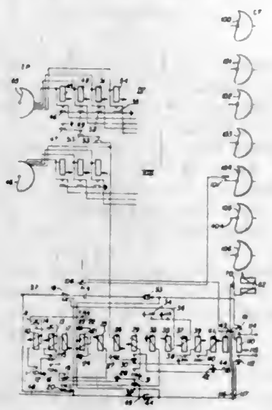


the ray and produce signal currents therefrom, means for detecting major wave-peaks, and discharger means controlled by said detecting means to discharge the previously-totalized quantities at the beginning of each successive wave-train, so that the pattern of minor wave-peaks within that wave-train alone determines which target produces a signal at the end of the wave-train.

2,613,274
AUTOMATIC RECORDING OF TELEPHONE NUMBERS

Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Original application April 25, 1947, Serial No. 743,964. Divided and this application November 30, 1949, Serial No. 130,127. In Great Britain July 26, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 26, 1959
7 Claims. (Cl. 179—7)



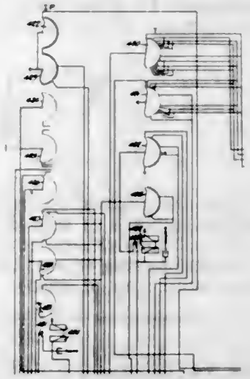
7. In a toll ticketing telephone system including, a recorder for recording various items of record information pertaining to each connection established between a calling and a called line, a plurality of exchanges each terminating a group of lines, at least one of said exchanges being identified by a first code comprising a predetermined number of digits and at least one other of said exchanges being identified by a second code comprising a predetermined smaller number of digits, each line in each of said exchanges being identified by a plural digit number, automatic switching apparatus including a trunk circuit, and a register mechanism controllable over a calling line in a calling exchange to register therein the code digits identifying a called exchange and a plural digit number identifying a called line in said called exchange and for controlling said switching apparatus to set up a connection from said calling line to said called line via said trunk circuit and for storing in said trunk circuit various items of record information pertaining to said connection including said called exchange code digits and said called line plural digit number; the combination comprising a recorder controller, means for associating said controller and said trunk circuit, a plurality of storage relays in said controller, means controlled incident to said association of said controller and said trunk circuit for transferring said items of record information including said called exchange code digits and said called line plural digit number stored in said trunk circuit to successive ones of said storage relays, a control relay in said controller, means controlled by said storage relays for operating said control relay only in the event the called exchange code digits stored in said storage relays correspond to said second code, means in said controller for selectively controlling said recorder to produce a record of the various items of record information stored in said storage relays including each of the digits of said called exchange code and said called line number, and means selectively governed by said control relay for controlling said recorder to produce an arbitrary character on the record between the last digit of a called exchange code and the first digit of a called line number whether the code of said called exchange is said first code or said second code.

2,613,275
AUTOMATIC CALL RECORDING SYSTEM FOR AUTOMATIC TELEPHONY

Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application April 25, 1947, Serial No. 743,966
In Great Britain January 24, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires January 24, 1961
17 Claims. (Cl. 179—7.1)

1. In a telephone system in which storage apparatus is provided for storing certain items of record information pertaining to a telephone connection from a calling line to a called line and in which recording apparatus is provided for recording the stored items of record information; record controlling apparatus included in said connection comprising a first relay controlled incident to the answering of a call extended to said called line, a second relay controlled incident to the release of said connection for establishing a time item indicative of the total elapsed time said connection is maintained, means including said second relay controlled incident to the release of a connection extended to said called line for operating said recorder to record said stored items of record information pertaining to said connection whether or not said first relay is controlled, and means including said second relay for selectively operating said recorder to record said established time item only in the event said

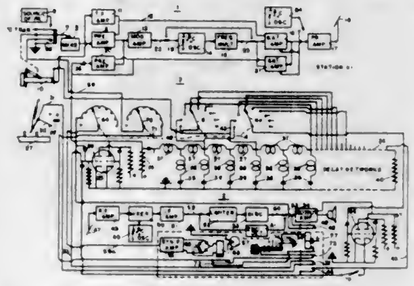


first relay is controlled incident to the answering of a call.

2,613,276
MULTIPLEX TIME DIVISION RADIOPHONE SYSTEM

John H. Homrighous, Oak Park, Ill.

Application January 7, 1949, Serial No. 69,772
20 Claims. (Cl. 179—15)



5. In a transmitter-receiver station, means to produce a carrier wave, pulse generator means comprising at least one electron tube and an associated pulse delay network coupled in series relation to produce a recurring synchronizing pulse and a plurality of recurring time pulses, transmitter means to transmit said synchronizing pulses over said carrier wave, means including a station calling device and suitable circuits to select a first one and a second one of said timing pulses, said first selected timing pulse to control said transmitter means for message signal transmission over said carrier wave during a first recurring period of time, and receiver means under control of said second selected timing pulse to control reception of message signals during a second recurring period.

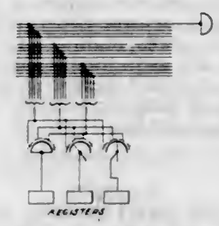
2,613,277
TELEPHONE SYSTEM

Martinus den Hertog, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application May 8, 1948, Serial No. 25,901
In the Netherlands October 5, 1947
6 Claims. (Cl. 179—18)

1. In an automatic telephone system having a plurality of groups of lines, a group of register controllers common to said lines a plurality of

selector switches having banks of terminals to which said lines are respectively connected, said switches being selectively operative to connect a line to one of said registers in response to a calling condition of said line, said selector switches each having a different home position on the respective groups of terminals connected

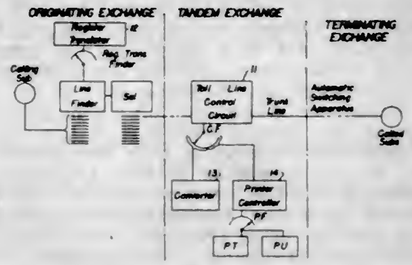


respectively to said line groups, circuit means connecting two corresponding terminals of each of said selector switches in a closed series circuit, and starting means connected to said circuit means operative in response to a call on any of said lines to start that free selector switch which is nearest to the terminals of the calling line in the switching direction.

2,613,278
TELEPHONE SYSTEM

Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application April 25, 1947, Serial No. 743,965
In Great Britain January 5, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires January 5, 1960
10 Claims. (Cl. 179—18)



1. In a telephone system, a calling line, a called line, switching apparatus for automatically setting up a connection from said calling line to said called line, information collecting means included in said connection comprising a plurality of storage devices for storing said called line number, means for operating said storage devices to store the digits of said called line number, an automatic switch included in said collecting means, a sender, a relay group in said sender operative to register only one digit at any one time, means for associating said sender with said collecting means, means controlled responsive to said association for successively operating one or more of the relays in said relay group in accordance with the successive digits of said called subscriber number stored in said storage devices, means in said sender controlled responsive to each operation of said relay group in accordance with each of the digits stored in said storage devices for generating a series of impulses corresponding to

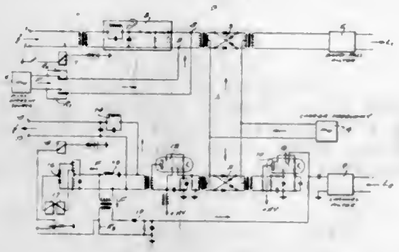
the numerical value of each of said stored digits and for controlling said automatic switch to select said digit storage device storing the next digit of said called subscriber number, a routing switch in said sender operated responsive to a predetermined number of series of said generated impulses for transmitting a predetermined number of routing digits to said switching apparatus, and means operated responsive to the remaining number of series of said generated impulses for transmitting a corresponding number of directing digits to said switching apparatus, whereby said routing and said directing digits complete the setting up of said connection from said calling line to said called line.

2,613,279

RINGING AND REGULATING DEVICE FOR CARRIER CURRENT TRANSMISSION SYSTEMS

Jean Louis Hurault, Paris, France, assignor to Compagnie Industrielle des Telephones, Paris, France, a French corporation

Application September 13, 1950, Serial No. 184,647
In France September 2, 1949
8 Claims. (Cl. 179—84)



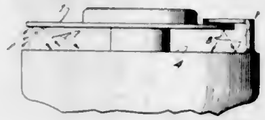
1. An arrangement for preventing the pilot frequency currents increased during transmission of signalling currents in the transmission of the transmitting part of a carrier current communication station from affecting the communication currents at the receiving part of the station, comprising in combination, a generator connected to the transmission line of the station, said generator generating pilot frequency currents; means connected to said generator for keeping the pilot frequency currents at a low level while no signalling currents are transmitted; means for increasing the level of the pilot frequency currents during a transmission of signalling currents; means arranged at the receiving part of the station for separating the received pilot frequency currents from the communication currents; an amplifier arranged at the receiving part of the station, said amplifier having an adjustable gain; means for deriving from the received pilot frequency currents a regulating rectified voltage for controlling the gain of said amplifier; means for deriving from the received pilot frequency currents a rectified current; a relay energized by the rectified current derived from the received pilot frequency currents, said relay operating only when the pilot frequency currents are transmitted and received at an increased level controlled by said level increasing means; and a circuit having a contact actuated on the operation of said relay, said circuit being connected to said amplifier so as to decrease the gain thereof by the closing of said contact, whereby at an increased level of the pilot frequency currents said amplifier is controlled so as to keep the anode current thereof substantially constant.

2,613,280

TELEPHONE DIAL

Joseph A. Petnel, Troy, N. Y.

Application August 16, 1950, Serial No. 179,661
2 Claims. (Cl. 179—90)



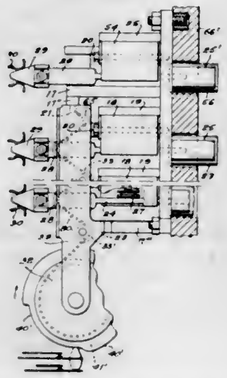
1. A telephone dial formed entirely of stainless steel; the bottom surface of said dial being polished to provide a high light-reflectivity; and the top surface thereof having in and integral therewith a dark colored film of oxide.

2,613,281

CORDLESS TELEPHONE SWITCHBOARD WITH INTERLOCKS

Louis Micha, Rue Augustin Vento, Principality de Monaco

Application December 23, 1949, Serial No. 134,823
In France December 30, 1948
3 Claims. (Cl. 179—91)



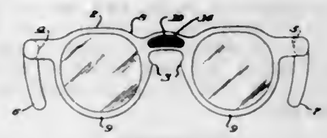
1. A switchboard for connecting local lines to trunk lines and local lines in pairs, comprising in combination, a chassis; hand operated members arranged in said chassis; means whereby said members initiate, respectively, the connections between any local lines and the lines to be connected to same; first movable pulleys arranged parallel to one another; means whereby said first movable pulleys are, actuated, respectively, by said members; first stationary pulleys; means whereby said stationary pulleys are associated, respectively, with said first movable pulleys, said first stationary pulleys being arranged parallel to said first movable pulleys; a first pulling cord; means whereby said first pulling cord cooperates with said first movable pulleys and said first stationary pulleys; a first drum driven by said first pulling cord and adapted to be rotated by said first pulling cord through an integral multiple of a unit angle; a bracket connected to said chassis and carrying said first stationary pulleys and said first drum; means actuated by said first drum when said first drum is rotated through more than one unit angle and adapted to prevent a wrong connection of the lines; second movable pulleys; means whereby said second movable pulleys are actuated, respectively, by said members; said second movable pulleys being arranged parallel to one another and at right angles to said first movable pulleys; second stationary pulleys arranged parallel to said second movable pulleys; means whereby said second stationary pulleys are associated, respectively, with said second movable pulleys; a second pulling cord; means whereby said second pulling cord cooperates with said second movable pulleys and said second stationary pulleys; a second drum driven by said second pulling cord and adapted to be rotated by said second pulling cord through integral multiples of a unit angle; a box rigidly connected to said chassis and carrying said second stationary pulleys and said second drum; and means actuated by said second drum when said second drum is rotated through more than two unit angles and adapted to prevent a wrong connection of the lines.

2,613,282

SPECTACLE TYPE HEARING AID

Alan M. Scaife, Pittsburgh, Pa.

Application September 8, 1949, Serial No. 114,537
1 Claim. (Cl. 179—107)



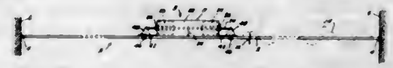
A hearing aid comprising a support adapted to be worn in substantially fixed position on the head of the user and having the general configuration of a spectacle frame, the support having a hollow bridge portion positioned to lie above the nose, means for converting sound vibrations into electrical impulses, said means having a sound vibration receiving portion carried in fixed position within the hollow bridge portion so that movement of the wearer's head correspondingly moves said sound vibration receiving portion, a sound reproducer carried by the support near the ear of the user and connections between said means and the sound reproducer whereby the electrical impulses produced by said means in turn produce audible sounds in the sound reproducer, the connections being disposed within the support so as to be invisible from without.

2,613,283

VIBRATION TRANSDUCER ASSEMBLY

Samuel M. Bagno, Astoria, and Sidney L. Westerman, Great Neck, N. Y., assignors to The Alertronic Protective Corporation of America, New York, N. Y., a corporation of New York

Application December 9, 1948, Serial No. 64,344
10 Claims. (Cl. 179—110)



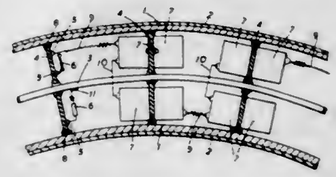
1. A vibration generator assembly comprising a thin, narrow elongated strip supported at both ends and capable of vibration in a direction perpendicular to its length, a magnetostriction transducer housing, lips on said housing oriented in the direction of said strip and connected thereto at points spaced along the length of said strip, at least one of said points being spaced far inwardly from an end of said strip, a magnetostriction coil in said housing, a magnetostriction rod inside said coil and oriented in the direction of said strip, the ends of said rod projecting from said housing and overlying said housing lips, and connections between the ends of said rod and said lips, whereby contractions and expansions of said rod set up the vibrations in said strip, said strip thus acting as a vibration sender over substantially its entire length.

2,613,284

HOUSING FOR APPARATUS INSTALLED IN SUBAQUEOUS CABLES

Alleman Holly Roche and Frederick Ormesher Roe, London, England, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of New York

Application August 10, 1948, Serial No. 43,358
In Great Britain August 15, 1947
3 Claims. (Cl. 179—171)



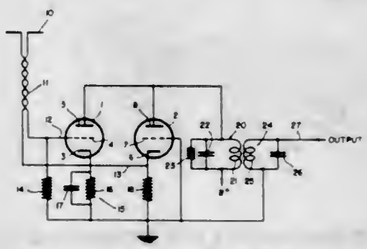
1. A submersible amplifying repeater for use in connection with subaqueous telecommunication cables comprising a flexible pressure resisting cylindrical housing, an elongated central support member coaxially positioned within said housing, a plurality of solid disc members, each of said members having a centrally located aperture of substantially the same circumference as said central member, said discs being mounted on said central member within said housing in planes perpendicular to the axis of said central member, a resilient buffer fastened to the periphery of each of said discs so that the disc including the buffer fits snugly inside said housing, a plurality of circuit components mounted on said disc members, and means for flexibly connecting respective ones of said circuit components mounted on different discs to each other.

2,613,285

BALANCED INPUT HIGH-FREQUENCY AMPLIFIER

Kenneth N. Fromm, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana

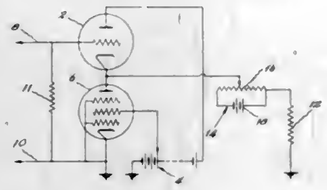
Application August 16, 1946, Serial No. 690,877½
9 Claims. (Cl. 179—171)



1. A high-frequency amplifier comprising a first and a second electric discharge device, each having a grid, a cathode and an anode, a source of signal voltages balanced with respect to a fixed potential and coupled to the grid of said first device and to the cathode of said second device,

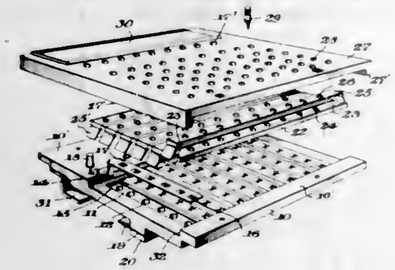
a cathode impedance in the cathode circuit of said second device, an anode voltage supply, a common anode impedance for connecting said voltage supply to the anodes of said devices, and means for deriving an unbalanced amplified output signal across said anode impedance.

2,613,286
CATHODE FOLLOWER AMPLIFIER
Donald G. C. Hare, Clemson, S. C., assignor to Deering Milliken Research Trust, New York, N. Y., a nonprofit trust of New York
Application June 20, 1947, Serial No. 756,070
5 Claims. (Cl. 179—171)



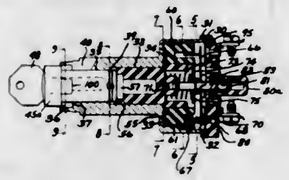
1. A cathode follower comprising in combination an electron tube operating as a triode, an input circuit connected to the control grid of said tube, a pentode having its plate tied to the cathode of said first mentioned tube to be at the same potential therewith, means for applying, with respect to the cathode of said pentode, a substantially constant positive potential to the anode of said first mentioned tube and a substantially constant, but lesser, positive potential to the screen grid of said pentode, means for maintaining the potential of the control grid of said pentode substantially fixed with respect to the cathode of said pentode and an output circuit connected across said pentode.

2,613,287
CROSS CONNECTING BOARD
Edward F. Geiger, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 27, 1948, Serial No. 56,893
6 Claims. (Cl. 200—1)



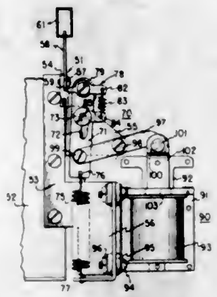
2. A cross connecting board comprising in combination as a unitary device an insulating structure including a base plate, a series of electrical conducting strips arranged within said structure in insulated relation one with respect to the other, each of said strips having one end thereof projecting through the base plate and depending therefrom to a predetermined position, a second series of electrical conducting strips also arranged within said structure in crossed relation to the first mentioned series of strips and insulated therefrom and also each other, each of said second mentioned strips having both ends thereof projecting from the insulating structure and adapted for electrical connection to a program device, a series of spring metal electrical contact straps fastened to the base plate and extending in a direction toward and beyond the depending ends of the first mentioned strips, each contact strap of said series being positioned to lie directly beneath a depending end of a strip of said first mentioned series of strips and with all of the straps biased in a direction to normally make contact with the depending end of its cooperating strip, means for electrically connecting each of the contact straps to a signal device or buzzer, plug means for electrically connecting any one of the first mentioned series of strips with any one of the second mentioned series of strips at the points of intersection between said strips, whereby upon operation of the program device certain signal devices will be operated according to the electrical connection made, and manually operated means permanently carried by the insulating structure and adapted for moving any one of the contact straps to break electrical circuit between said strap and the depending end of its cooperating strip.

2,613,288
KEY OPERATED ELECTRIC SWITCH
William E. Brown, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 20, 1951, Serial No. 216,587
2 Claims. (Cl. 200—4)



1. A combined ignition and starter comprising, a lock and switch housing, a lock cylinder supported for rotating and longitudinal movement in the housing; a closure for the housing having a guide passage; a driven member of insulating material coupled with the lock cylinder; a pin having one end fixed to the driven member and having the other end fitting into the guide passage for guiding the driven member in a straight line; a removable abutment carried by the pin; insulated ignition terminals and a pair of insulated starter terminals carried by the closure; a bridging member about the pin; a spring for holding the bridging member against the abutment and for maintaining the coupled relation between the driven member and the lock cylinder; a carrier of insulating material driven by the driven member; a contact plate carried by the carrier and engageable with the ignition terminals upon rotary motion of the lock cylinder; a second spring disposed between the closure and the abutment for resisting axial movement of the driven member in one direction; and provision provided by the lock cylinder and the housing for permitting axial movement of the lock cylinder and driven member for actuating the bridging member into engagement with the starter terminal only when the contact plate engages the ignition terminals.

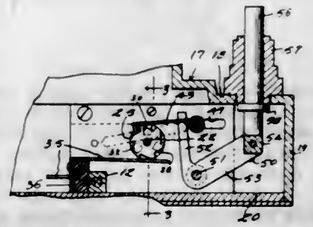
2,613,289
SWITCHING APPARATUS FOR ELECTRIC COOKING APPLIANCES
Roland O. Warner, Chicago, Ill., assignor to Hotpoint Inc., a corporation of New York
Application February 18, 1950, Serial No. 144,921
5 Claims. (Cl. 200—5)



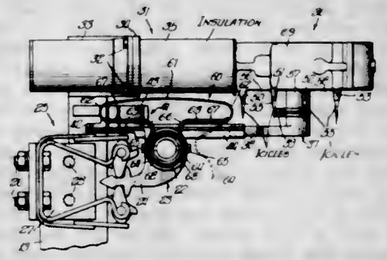
5. Switching apparatus comprising mechanism selectively operative into a plurality of different switching positions, manually operable means for selectively operating said mechanism into its different switching positions, a pivotally mounted lever operatively connected to said mechanism and movable between a normal position and an operated position, said lever being moved from its normal position into its operated position in response to operation of said mechanism into a predetermined one of its switching positions and being moved from its operated position into its normal position in response to operation of said mechanism into any other of its switching positions, movement of said lever from its normal position into its operated position operating said mechanism into said predetermined one of its switching positions from any other of its switching positions, an element mounted for movements between a normal position and an operated position, motor means for selectively moving said element between its normal position and its operated position, and means including a one-way connection between said element and said lever for effecting movement of said lever from its normal position into its operated position in response to movement of said element from its operated position into its normal position without effecting movement of said lever regardless of the position thereof in response to movement of said element from its normal position into its operated position, said one-way connection permitting ready movement of said lever between its normal position and its operated position in response to selective operations of said mechanism without interference with said element regardless of the position of said element.

2,613,290
PUSH-BUTTON MULTIPLE SWITCH
Pierre P. Pattyn, Detroit, Mich., assignor, by mesne assignments, to Eugene Morasco
Application April 18, 1950, Serial No. 156,520
1 Claim. (Cl. 200—8)

A push-button multiple switch for multiple filament lamps or circuits comprising a frame formed of a pair of side members and connecting means secured between said side members, a contact carrier rotatably disposed between said side member, said carrier comprising a shaft, a pair of longitudinally spaced cylindrical insulating members fixed to said shaft, a plurality exceeding two of lengthwise extending and circumferentially spaced apart bridging contacts fixed in each cylindrical member, the contacts of one cylindrical member aligning with the contacts of the other cylindrical member, the space between adjacent pairs of contacts constituting circuit breaking means, a plurality in excess of two wipers carried by said frame an equal number engaging each insulating member each contact being of a length to bridge only an adjacent two wipers, a ratchet fixed to said shaft between said members, said frame having a pair of elongated openings a slide shaft carried by said frame and engaging in said openings, a pawl rockably carried by said slide shaft and engaging said ratchet, a pair of bellcranks, means rockably mounting said bellcranks in said frame whereby one leg of each bellcrank will engage the inner side of said slide shaft, springs constantly urging said slide shaft rearwardly, and push button means extending out of said frame for rocking said bellcranks for moving said ratchet to rotate said carrier to juxtapose a selected pair of contacts to bridge selected pairs of wipers.



2,613,291
AUXILIARY CONTACT CONSTRUCTION FOR LOAD INTERRUPTER SWITCHES
John J. Kojis, Chicago, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware
Application April 26, 1950, Serial No. 158,246
14 Claims. (Cl. 200—48)



1. A switch construction for outdoor mounting comprising, in combination, a stationary contact member having a plurality of depending projections on its underside on the lower ends of which icicles may form, a switch blade movable underneath said projections, a bow shaped resilient contact member extending from said switch blade for sequentially engaging the lower ends of said projections to make electrical contact therewith and to break off any icicles formed thereon, the ends of said bow shaped contact member being secured to said switch blade, and brace means cooperating with said ends of said bow shaped contact member to pretension and rigidity the same and prevent upward travel of one bow end when the opposite bow end is depressed on initial engagement with the first of said projections.

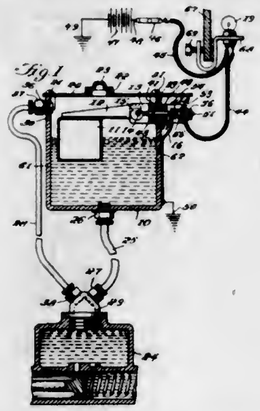
2,613,292
SOCKET CASING AND SWITCH STRUCTURE
Conrad Laurier Dupuis, Eastview, Ontario, and Austin Hastie, Carleton Place, Ontario, Canada
Application August 11, 1947, Serial No. 767,982
In Canada August 12, 1946
2 Claims. (Cl. 200—51.16)



1. An electric lamp socket casing and switch structure comprising a unitary hollow switch casing cylindrical shell open at one end and curved over and inwardly and provided with a conductor receiving opening at the opposite end, a lamp receiving socket member endwise removably fitted in the open end and presenting a threaded opening for reception of a lamp bulb, spaced-apart insulating discs carried at the opposite end of the lamp socket member, a terminal connector on the lamp receiving socket portion, a terminal member carried by one of said insulating discs presenting a central lamp engaged contact within and insulated from the lamp receiving socket member and having a switch contact on the opposite side of the insulating disc, a second terminal connector on the spaced-apart insulating disc having a switch contact opposite the first-mentioned switch contact, said cylindrical shell being provided with a switch lever opening through one side at a location communicating with the clearance between the spaced-apart insulating discs, a switch operating member swingably mounted intermediate its ends between the insulating discs with an outer end presented toward the switch lever opening and with said switch operating member entirely within the confines of the spaced-apart insulating discs to thus permit endwise fitting and removal of the lamp receiving socket member with respect to the cylindrical shell switch casing, a substantially U-shaped contact arm disposed between the insulating discs having pintles at its ends received in bearing openings in said discs with the contact arm swingable to a closed position between the spaced-apart oppositely disposed switch contact portions and to an open position away from said switch contact portions, a spring bearing within the U-shaped contact arm and at its opposite end against the inner end of the operating member, and a switch lever fitted movably through the opening of the casing removably mounted on the outer end of the switch operating member and retaining the lamp receiving socket and switch structure against endwise removal and displacement from the cylindrical shell casing.

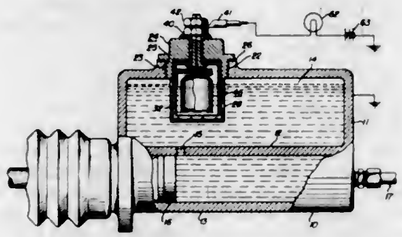
2,613,293
HYDRAULIC BRAKE FLUID WARNING DEVICE
Frederick J. Marks, Barnsboro, N. J.
Application June 29, 1950, Serial No. 171,025
1 Claim. (Cl. 200—84)

In a hydraulic brake system, a reservoir, a plug extended through a wall of the reservoir, a socket positioned on the inner end of the plug, a float carrying arm pivotally mounted on the socket, a pin extended through the plug and socket, a cam positioned in the socket and mounted to be actuated by the float carrying arm to move a contact through the pin outwardly, a spring contact positioned to engage the outer end of the pin actuated by the cam, a stationary contact, a bracket extended from the chamber in



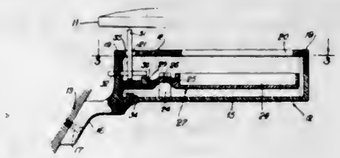
which the stationary contact is mounted, and said bracket positioning the stationary contacts to be engaged by the spring contacts.

2,613,294
FLOAT OPERATED SWITCH
Albert T. McNea, Cleveland, Ohio
Application June 15, 1951, Serial No. 231,833
8 Claims. (Cl. 200—84)



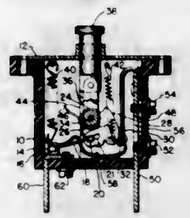
1. A float operated switch for a liquid level indicator for a hydraulic brake fluid reservoir, said reservoir having a filling hole provided with internal threads, said float operated switch comprising an inverted hollow cup-shaped metal plug having external threads for threadably engaging the internal threads of the filling hole, said metal plug having a top wall and an annular perforated side wall adapted to extend downwardly into said fluid reservoir, an inverted annular cup-shaped metal shield mounted within said hollow cup-shaped metal plug and having a top wall and an annular side wall, an electrical terminal stud electrically connected to the top wall of the shield and mechanically securing the top wall of the shield to the top wall of the plug with the annular side wall of the shield inwardly spaced from the annular perforated side wall of the plug, insulation means electrically insulating the terminal stud and the top wall of the shield from the top wall of the plug, a hollow metal float floatable on the hydraulic brake fluid within the annular shield, metal spring means for resiliently supporting the hollow float within the shield, said spring means having a first end mechanically and electrically connected to said shield and having a second end mechanically and electrically connected to the float, a perforated metal disk mounted in the bottom of the cup-shaped plug, said perforated metal disk having electrical contact points extending upwardly towards said metal float and being contactable by said metal float for closing a circuit between the metal plug and the terminal stud in response to the hydraulic brake fluid in the reservoir receding below a predetermined level.

2,613,295
RAIN-CONTROLLED SWITCH FOR CONVERTIBLE TOP AUTOMOBILES
Walter R. Stone, Mount Vernon, N. Y.
Application November 24, 1950, Serial No. 197,214
2 Claims. (Cl. 200—85)



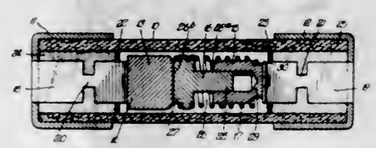
1. A rain-controlled switch of the character described, comprising a pivotally mounted support, a rain-collecting pan and a contact bar on said support, an upwardly projecting post mounted on said support on the opposite side of the pivot from the side where the rain-collecting pan is situated, a pair of contact members fixedly mounted adjacent said contact bar, said support being delicately balanced to maintain a state of equilibrium until the balance is upset by rain collecting in the pan, in which case the support is caused to pivot and thereby to bring the contact bar into engagement with the fixed contact members, said support being pivotally movable in the opposite direction in response to a downward force applied to said post to disengage the contact bar from the fixed contact members, and a catch on the upwardly projecting post to hold said post in a fixed position and thereby to maintain the pivotally mounted support in a fixed state of equilibrium.

2,613,296
TRIP-FREE CIRCUIT BREAKER
Morris B. Wood, Newburyport, Mass.
Application June 24, 1949, Serial No. 101,013
14 Claims. (Cl. 200—116)



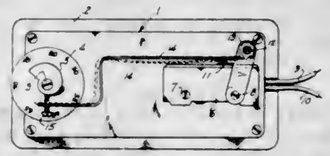
14. A trip free circuit breaker having contacts, a pair of swinging cam members having a common pivot, one of which cam members actuates the contacts and a manually actuated wedging device for swinging the cam members away from each other about said pivot, in combination with a current responsive latch engaging the other cam member to lock it in position where the contacts may be closed against the resistance offered by the locked cam member, said latch engaging cam member having a projection to retain the wedging device between the cam members but to release the wedging device when the latch engaging cam member is unlocked and is swung to one side, and two springs, one of which is connected to the contact actuating cam member to open the contacts and the other of which is connected to the latch engaging cam member to press the wedging device out from between the cam members after the contacts are opened and to turn the latch engaging cam member to locked position after releasing the wedging device.

2,613,297
LAG FUSE
Gordon F. Laing, Delavan, Wis., assignor to Economy Fuse and Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application October 23, 1950, Serial No. 191,627
5 Claims. (Cl. 200—123)



4. A lag fuse assembly comprising, in combination, a pair of fuse links in spaced relation, a relatively massive metallic conductor of large thermal capacity permanently connecting said free links in bridging relation, said massive conductor being in three parts, two of said parts being constructed and arranged to slide axially of each other into and out of abutting relation to the third part; and a helical spring tending to withdraw said sliding parts from abutment with said third part, and low melting point solder holding said three parts in abutting relation.

2,613,298
THERMOSTAT
Charles E. Armstrong, Portland, Oreg.
Application September 12, 1949, Serial No. 115,168
1 Claim. (Cl. 200—139)



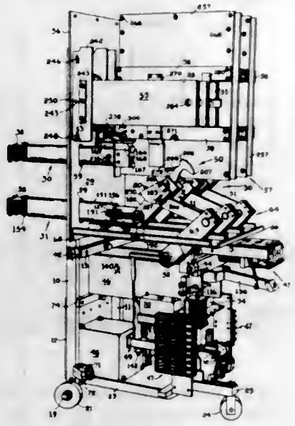
A thermostatically actuated switching mechanism comprising in combination, an elongated base, a single length of bimetal temperature-sensitive controlling element extending substantially full length of the base and pivotally attached at one of its ends to one end of the base, a cam rotatably mounted on the opposite end of the base, the opposite end of said bimetal element being in adjustable contact with the cam, a switch mounted on the base near said one end thereof, a spring-urged plunger extending outwardly from the switch for actuating the switching mechanism, said plunger being in contact with said bimetal element and positioned at a point closer to said pivotal attachment of the bimetal element than to the center of said bimetal element whereby said plunger will be depressed with maximum pressure upon minimum temperature rise and released with minimum temperature fall.

2,613,299

HIGH-VOLTAGE CIRCUIT BREAKER

Joseph D. Wood, Upper Darby, and Arthur S. Caswell and Elmer Goessel, Philadelphia, Pa., assignors to I. T. E. Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania

Application January 11, 1947, Serial No. 721,648
4 Claims. (Cl. 200—147)



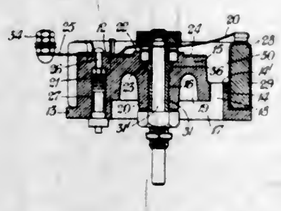
1. A unit assembly for a movable truck mounting for a circuit breaker including metallic structural elements comprising a back main supporting structure, said supporting structure being an open structure comprising vertical supporting bars and a plurality of horizontal bars connecting said vertical bars for bracing said vertical bars, the lower ends of said vertical bars providing bearings and a shaft carrying wheels mounted in said bearings and a circuit breaker mechanism mounted thereon, including circuit breaker elements comprising back connection studs, a movable contact arm, operating mechanism for said movable contact arm and arc chutes, and said circuit breaker elements being separated from said metallic structural elements to a maximum extent by virtue of said vertical and horizontal bar construction, whereby arcing to ground when said circuit breaker elements are actuated is minimized.

2,613,300

ELECTRIC RESISTANCE APPARATUS

Henry Paul-Huhne, Great Missenden, England

Application September 1, 1950, Serial No. 182,676
In Great Britain July 6, 1949
3 Claims. (Cl. 201—48)



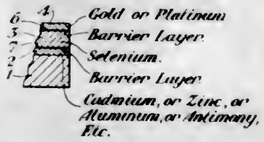
1. A dielectric supporting structure for electric resistance apparatus comprising a base and an arcuate resistance-carrying core mounted on said base with at least a part of said core upstanding from the upper surface of said base, said base having on the upper surface thereof a bored integral central portion for a spindle for a potentiometer brush, which central portion projects centrally through said core and forms an arcuate ventilating space, open to the air, between said upstanding part of said core and said central portion and extending substantially the whole length of said core and said base being provided with ventilating passages between the underface of said base and said space.

2,613,301

PROCESS OF MANUFACTURING PHOTOELECTRIC CELLS

Léon Jules Marie Joseph Dubar, Paris, and Roger Philippe Millet, Pavillons-sous-Bois, France, assignors to Compagnie des Freins et Signaux Westinghouse, Paris, France

Application January 6, 1950, Serial No. 137,301
In France January 17, 1949
1 Claim. (Cl. 201—63)



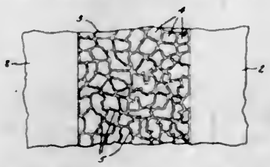
A process of manufacturing a photo-electric cell which comprises depositing an organic film such as varnish, or a film of a mineral selected from the group consisting of quartz, fluorite and cryolite on a base plate of a metal capable of forming a barrier layer with a semi-conductor material such as selenium, then depositing a layer of said semi-conductor material on said film, providing a thin layer of metal such as gold or platinum in contact with the opposite side of said layer of semi-conductor material, applying heat to transform said semi-conductor material into a conducting state, in which said barrier layer is formed between said base plate and said layer of semi-conductor material, said barrier layer having high resistance to electric current of a given polarity and having low resistance to electric current of the opposite polarity, and in which a second barrier layer is formed between said thin layer of metal and said opposite side of said layer of semi-conductor material, said second barrier layer having low resistance to electric current of said given polarity, and having high resistance to electric current of said opposite polarity.

2,613,302

HUMIDITY INDICATOR

Anatole M. Gurewitsch, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 24, 1949, Serial No. 101,033
18 Claims. (Cl. 201—73)



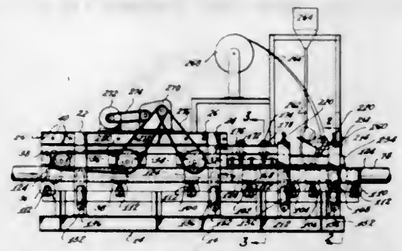
1. A method for making an electrical resistance element comprising the steps of forming an electrically conductive surface film on a dielectric, and then breaking up the electrically conductive film into a plurality of electrically conductive elements separated from each other by a network of relatively non-conductive channels.

2,613,303

PIPE WELDING MACHINE

Charles A. Babbitt, South Gate, Calif., assignor to Cal-Metal Corporation, Torrance, Calif., a corporation of California

Application March 5, 1949, Serial No. 79,900
13 Claims. (Cl. 219—6)



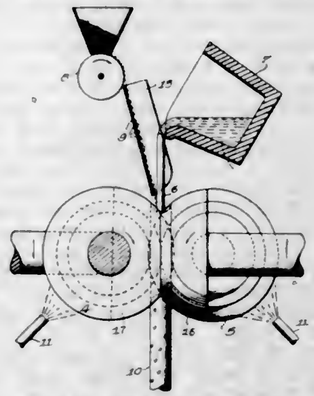
6. A pipe forming and welding machine comprising: a frame; a plurality of pairs of cooperating rollers journaled in longitudinally spaced relation on said frame for gripping and feeding a preformed pipe blank of substantially circular cross section and having a longitudinally extending slit therein, one of each pair of rollers being positioned to engage the inner surface of the pipe blank at opposite sides of the slit, the other of each pair of rollers being positioned to engage the outer surface of the pipe blank opposite to its respective inner roller, one pair of said rollers being shaped to roll the marginal edges along the slit inward beyond the circumference of a circle, and a succeeding pair of said rollers being shaped to roll such edges outward to the true circumference of the finished pipe; power means for driving one of each pair of rollers to feed the pipe blank through the machine, the peripheral speed of the first driven roller being greater than the succeeding rollers, whereby a blank fed into the machine in spaced relation to a preceding blank will catch up with and abut against such preceding blank; and automatic means for welding the seam to form a pipe.

2,613,304

WELDING ROD OR WIRE

Rene D. Colinet, Philadelphia, Pa., assignor to La Soudure Electrique Autogene S. A., Brussels, Belgium, a Belgian company

Application September 6, 1949, Serial No. 114,085
8 Claims. (Cl. 219—8)



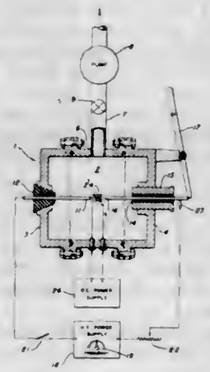
1. A welding rod or wire, comprising an aggregate of solid fluxing particles dispersed throughout a continuous solid mass of a matrix metal of substantially higher melting point than the fluxing particles, the solid fluxing particles being not fused in contact with the molten matrix metal, said metal having a metallic structure indicative of fast-cooling casting followed by mechanical compression in the plastic stage.

2,613,305

WELDING DEVICE

Robert W. Clack, Lafayette, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application November 26, 1951, Serial No. 258,225
10 Claims. (Cl. 219—8)



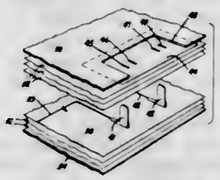
1. An improved welding device comprising an evacuated chamber, means for inserting a pair of metallic parts to be welded therein, a source of high frequency voltage connected between said parts, voltage control means connected to said high voltage source for setting the voltage between said parts to produce multipaction, and means forcing said parts into contact after heating thereof by multipaction therebetween.

2,613,306

ELECTRICAL WIRING PANEL

Felix S. Waltersdorf, Bridgeport, and Robert W. Scott, Milford, Conn., and Frank T. Grothouse, South Euclid, Ohio, assignors to General Electric Company, a corporation of New York

Application February 28, 1949, Serial No. 78,738
4 Claims. (Cl. 219—19)



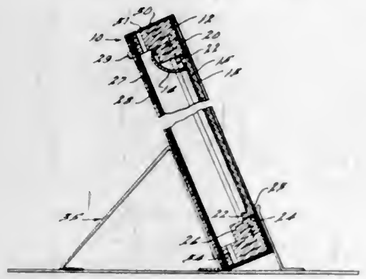
1. An electric heating panel comprising a plurality of sheets of insulating material, a grid of resistance wire positioned between opposed surfaces of said sheets, thermally conductive layers positioned on the other surfaces of said sheets, said sheets and said layers being bonded together by a plastic material, one of said layers having a cut-out portion therein, said wire having a pair of terminals located in said portion, a dielectric member for supporting said terminals in spaced relation and positioned in said cut-out portion, said dielectric member and said terminals having outer surfaces substantially coplanar with the outer surface of said one layer.

2,613,307
VEHICLE ENGINE HEATER
Walter La Mirand, Detroit, Mich., assignor to Glassheat, Inc., Detroit, Mich., a corporation of Michigan
Application March 16, 1950, Serial No. 150,061
5 Claims. (Cl. 219—19)



1. In a portable heater for vehicle engines, a main frame, a sub-frame movable vertically with respect to said main frame, an electrically energized heat radiating element carried by said sub-frame, a handle extending from and carried by said main frame, cable means carried on said handle for moving said sub-frame, and clamping means carried by said handle adapted to engage said cable for retaining said sub-frame in selected positions.

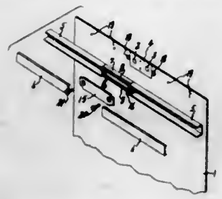
2,613,308
RADIANT HEATER AND TRAY
Walter La Mirand, Detroit, Mich., assignor to Glassheat, Inc., Detroit, Mich., a corporation of Michigan
Application March 16, 1950, Serial No. 150,062
2 Claims. (Cl. 219—19)



1. In a heating device adapted for use as a warming tray and portable heater, a rectangular frame, a heating element of sheet form mounted in said frame in substantially flush relationship therewith, means retaining said element in said frame comprising angle sections disposed along the sides of said element, one leg thereof overlapping the top marginal edge of said element and having a trim strip secured thereto overlapping said leg and the adjacent frame portion, the other leg thereof extending along and below the sides of the element, a securing strip disposed along the bottom marginal edge of the element adjacent said other leg, and common fastening means securing said strip and angle section to said frame.

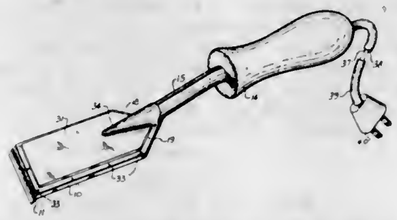
2,613,309
CONTACTING DEVICE FOR ELECTRIC HEATING PANELS
Clarence Frere, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application November 15, 1950, Serial No. 195,845
4 Claims. (Cl. 219—19)

1. In an electric heating panel installation including one or more panels mounted on an interior surface of a room, each of said panels having terminals for its heating element on its front face along an edge thereof, means supplying power to a plurality of panels comprising a hollow molding attached to aligned panels over and in alignment with said terminals, a removable cover for said molding, power supply conductors positioned in said molding, and a terminal block interfitting with said molding, said terminal



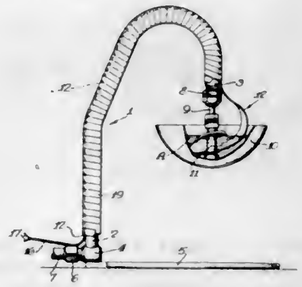
block including conductor means electrically connected to the terminals of the panel, an insulation piercing pin integral with each of said conductor means, a channel in said terminal block for receiving each power supply conductor, each of said pins being positioned in a respective one of said channels, and means forcing the power supply conductors against said pins.

2,613,310
ELECTRICALLY HEATED PAINT REMOVING TOOL
Robert H. Green, Cleveland, Ohio, assignor, by mesne assignments, to The Otto Konigslow Mfg. Co., Cleveland, Ohio, a corporation of Ohio
Application December 27, 1949, Serial No. 135,127
4 Claims. (Cl. 219—21)



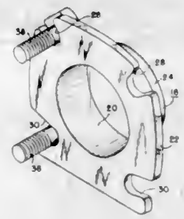
1. An electrically heated paint removing tool comprising a flat steel blade having at the forward end thereof an integrally formed downwardly and forwardly extending scraping edge terminating below the plane of the lower surface of said blade, a thin flat electric resistance heating element mounted on the upper surface of said blade, a layer of heat reflecting material disposed above said element, a layer of heat insulating material disposed above said layer of heat reflecting material, a housing enclosing and compressing said heating element and said layers, said housing comprising a hollow steel stamping having a peripheral flange welded to the upper surface of said blade, a hollow shank formed integrally with said blade and extending upwardly and rearwardly from the rear end of said blade and terminating in a handle supporting portion extending rearwardly and parallel to and offset from said blade, said housing having a conical raised portion overlying the end of said shank at the juncture of said shank and said blade, a handle composed of heat insulating material mounted on said handle supporting portion, and conductors extending within said handle, said handle supporting portion, said hollow shank and said conical raised portion for supplying electricity to said heating element.

2,613,311
ELECTRICAL HEATING DEVICE FOR POULTRY WATERING BOWLS
John W. Goff, St. Paul, Minn., assignor to Miller Manufacturing Company, Incorporated, St. Paul, Minn., a corporation of Minnesota
Application January 25, 1950, Serial No. 140,431
2 Claims. (Cl. 219—38)



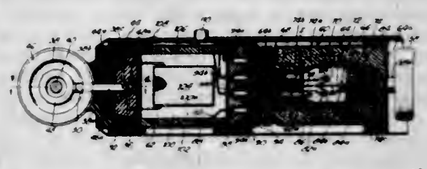
1. In a device of the class described, a liquid reservoir, a supply pipe for the reservoir, said reservoir depending from the supply pipe in spaced relation to the ground, and a heating device for the liquid in said supply pipe and reservoir, said heating device comprising an elongated strip of moulded rubber-like material, a generally U-shaped wire heating element imbedded in said strip for the greater portion of the length of the strip, and a two-conductor electrical conduit having one end imbedded in one end of the strip, the conductors of said conduit being connected one each to an opposite end of said heating element within said strip, said heating device for a portion of its length being in surface contact with said supply pipe, the free end of said heating device extending downwardly into said reservoir below the normal liquid level thereof.

2,613,312
HEATING APPARATUS
Vinal Dale Thurston, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 2, 1950, Serial No. 193,620
7 Claims. (Cl. 219—38)



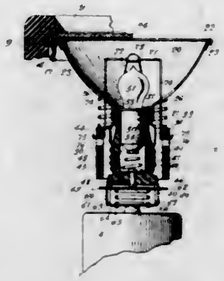
5. An electric water heater comprising a tank having a vertical wall and an opening in said wall, a coupling member having a tubular portion fixedly attached to said wall in registry with said opening, an electric heater having a mounting plate clamped to said coupling member and having a heating element extending through said tubular portion into said tank, said coupling member having a peripheral flange disposed in a vertical plane adjacent said tubular portion, said flange having upper and lower slots, said upper slots and said lower slots being disposed above and below the horizontal centerline of said tubular portion, respectively, each of said slots having a bolt received therein for clamping said mounting plate to said flange, said slots extending at an angle to the horizontal and having a closed bottom end to thereby retain the bolts in position to receive said mounting plate.

2,613,313
ULTRAVIOLET FLASHLIGHT AND ENERGIZING UNIT THEREFOR
Charles Weeks, Menlo Park, Calif., assignor to Menlo Research Laboratory, Menlo Park, Calif., a copartnership
Application December 9, 1950, Serial No. 200,010
6 Claims. (Cl. 240—10.6)



1. A self-contained energizing unit for a mercury vapor ultra-violet light source, comprising; an elongated conducting tube; relatively massive transformer and battery units disposed in the tube; and a vibrator unit sandwiched between the transformer and battery unit, the vibrator unit comprising a housing snugly received by the tube, a resilient fill material in the housing, and a mechanical contact making vibrator mechanism disposed in the fill material.

2,613,314
COMBINATION FILAMENT CRUSHER AND CIRCUIT BREAKER FOR SAFETY HAND LAMPS
Edward J. Garland, Worcester, Mass., assignor to Blake Manufacturing Corporation, Clinton, Mass., a corporation of Massachusetts
Application November 3, 1947, Serial No. 783,695
4 Claims. (Cl. 240—11.3)



1. A portable safety hand lamp comprising a reflector having a tubular extension at its base, a conductive lamp receptacle adapted at its upper end for fixed positioning within said tubular extension, an insulating plug, threadedly connected with said lamp receptacle, said plug having a cylindrical interior bore adapted to receive the base of a pre-focused lamp, a conducting bulb-sustaining spring within said bore, said spring, said plug and said lamp receptacle cooperating to support said lamp in fixed position, a conductive

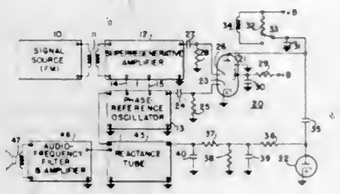
element extending through the base of said plug and in conductive contact with said conducting spring, a conducting cup affixed to the base of said plug, said cup having a base adapted for direct contact with a battery terminal, slots within the walls of said cup, a contact plate disposed within said cup said contact plate having a plurality of ears which extend laterally through said slots and beyond the side wall of said cup, a second spring within said cup, said second spring being in conductive contact with said cup and said contact plate and yieldingly urging the latter into engagement with said conductive element in said plug base, an insulating tube surrounding said lamp receptacle, a lamp filament crushing member having depending arms which engage said insulating tube, said tube having appreciable wall thickness and having an inner diameter appreciably greater than the maximum exterior diameter of said lamp receptacle, the inner diameter of said tube being smaller than the maximum distance between the ends of said ears, a third spring mounted between said reflector and said insulating tube, said third spring being adapted upon breaking of the lamp bulb to depress said insulating tube to engage said ears and depress said contact plate out of engagement with said conducting element in said plug base.

2,613,315

SUPERREGENERATIVE SYSTEM FOR RECEIVING ANGULAR - VELOCITY - MODULATED WAVE SIGNALS

Donald Richman, Flushing, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application June 25, 1948, Serial No. 35,243
10 Claims. (Cl. 250—20)



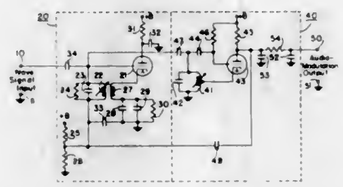
1. A system for receiving an angular-velocity-modulated wave signal comprising: a superregenerative amplifier, arranged to have said modulated signal applied thereto, for generating in each quench cycle thereof oscillations having a phase varying with the phase of said modulated signal during the maximum-sensitivity period of said each quench cycle; a signal generator, including a blocking oscillator having residual oscillations throughout each blocking interval, for generating a continuous-phase reference signal; an impedance network coupled in circuit with said amplifier and said oscillator for synchronizing the quenching action of said amplifier and the blocking action of said oscillator; a phase detector for receiving and for comparing the apparent relative phase of said oscillations of said amplifier and said phase-reference signal to develop an output signal having characteristic variations representing the modulation components of said modulated signal; and means responsive to said output signal to tend to maintain a substantially fixed apparent phase relationship between said oscillations of said amplifier and said phase-reference signal.

2,613,316

ANGULAR-VELOCITY-MODULATION WAVE-SIGNAL TRANSLATING SYSTEM

Bernard D. Loughlin, Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application June 25, 1948, Serial No. 35,257
6 Claims. (Cl. 250—20)



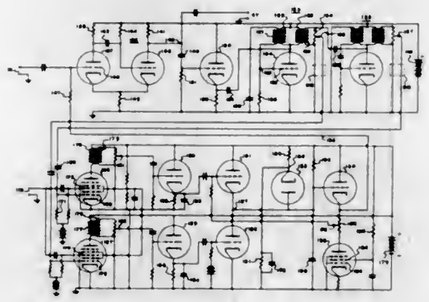
5. A receiving system of the phase comparison type for translating an angular-velocity-modulated wave signal comprising: a source of phase-reference oscillations; a superregenerative amplifier to which said modulated signal is applied and effective in each quench cycle to generate oscillations having a phase varying with the phase of said modulated signal; a phase detector comprising a blocking oscillator including said source for receiving said oscillations of said amplifier and for comparing during spaced intervals the apparent phase of said reference oscillations and said amplifier oscillations to develop an output signal having characteristic variations representing the modulation components of said modulated signal; and a control network responsive to the phase relations of said reference oscillations and said amplifier oscillations during said intervals of phase comparison for controlling a frequency characteristic of said system to tend to maintain a substantially fixed apparent phase relation between said reference oscillations and said amplifier oscillations.

2,613,317

CIRCUITS FOR OBJECT LOCATOR APPARATUS

Robert F. Mozley, Berkeley, Calif., assignor to The Sperry Corporation, a corporation of Delaware

Original application April 12, 1943, Serial No. 482,807, now Patent No. 2,495,753, dated January 31, 1950. Divided and this application August 27, 1949, Serial No. 112,666
9 Claims. (Cl. 250—27)



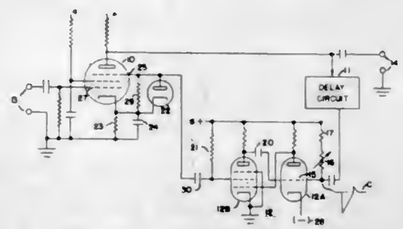
8. Object locator circuits comprising a signal coincidence circuit having a pair of coincidence devices with input terminals for receiving a signal and input terminals for receiving time displaced range gates, said coincidence devices having anode circuits and phase inversion transformers connected thereto, and a pair of peak voltmeters, each of said voltmeters being coupled to one of said coincidence devices.

2,613,318

COUNTING DOWN CIRCUIT

Ellery P. Snyder, United States Navy, Albany, N. Y., and James H. Mulligan, Jr., United States Navy, East Orange, N. J.

Application March 26, 1946, Serial No. 657,322
5 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



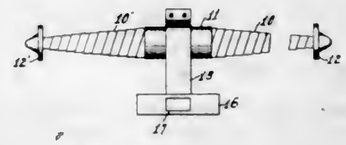
1. A frequency divider comprising, a vacuum tube having at least a suppressor, and a control grid, said control grid being adapted to receive input pulses, a keyed pulse generator connected to the output of said tube and operative in response to an output signal from said tube for generating a negative voltage pulse of controllable duration greater than the repetition period of the input pulse signal, and means for applying said negative voltage pulse to the suppressor grid of said tube to thereby render the latter non-responsive for the duration of said negative voltage pulse.

2,613,319

ADJUSTABLE ANTENNA

David M. Lisbin, Sunbury, and Ira Bivans, Northumberland, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 18, 1950, Serial No. 150,488
7 Claims. (Cl. 250—33)



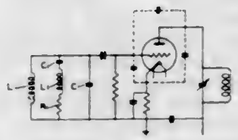
1. In an adjustable antenna, in combination, a support including a rigid sleeve and a volute strip of resilient conductive material, each turn of which is an overlapping contact with the next succeeding turn, said strip having its outermost turn bearing against the inside of said sleeve and anchored to said support, said strip being extendible and capable of fixation in any extended position by rotating its free end in a sense tending to expand the turns of the strip.

2,613,320

SYSTEM FOR USING OVERTONE ACTIVITY OF PIEZOELECTRIC CRYSTALS

Albert R. Panetta, Cleveland, Ohio, assignor to Electronic Research and Manufacturing Corporation, Cleveland, Ohio, a corporation of Ohio

Application December 2, 1948, Serial No. 63,066
9 Claims. (Cl. 250—36)



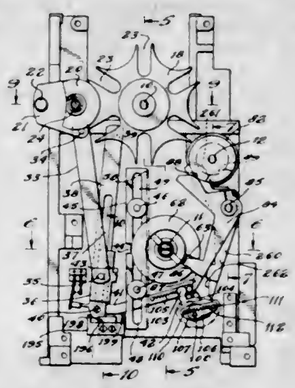
7. A piezo electric crystal in an oscillator circuit operating as an equivalent inductance at its *n*th overtone, in which the inherent crystal holder capacity and connected external capacities of said circuit are connected in parallel with the crystal, an inductive reactance effectively coupled across the crystal which is sufficient with said inherent crystal holder capacity and connected external capacities to anti resonate to a frequency below the *n*th overtone frequency of said crystal, the resulting equivalent capacity of said anti resonant circuit combining with the equivalent inductance of the crystal slightly above its *n*th overtone to result in a high or relatively high impedance appearing across the crystal terminals at a frequency just slightly above the *n*th overtone frequency of said crystal.

2,613,321

PRESELECTOR TUNING MECHANISM

Bernard Howard, Ramsay, N. J., assignor to Air Associates, Incorporated, Teterboro, N. J., a corporation of New Jersey

Application September 6, 1951, Serial No. 245,349
6 Claims. (Cl. 250—40)



4. In a preselector frequency tuning mechanism, a tuning shaft mounted for rotation on said frame and having a plurality of arcuately spaced sets of carrier wave tuning means providing a plurality of frequency ranges, a drive shaft mounted on said frame, cooperating means connected with said drive and tuning shafts for turning said tuning shaft in step by step rotation to positions for connecting said sets respectively in oscillator, radio frequency and antenna circuits, a tuning shaft mounted on said frame and having a plurality of tunable capacitors connected in the oscillator, radio frequency and antenna circuits, cooperating means connected

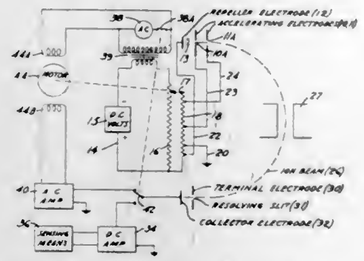
with said last mentioned tuning shaft and with the first mentioned cooperating means for imparting reciprocatory turning movement to the last mentioned tuning shaft with the rotation of the drive shaft, disks corresponding in number to the number of said sets of tuning means mounted on said last mentioned tuning shaft in longitudinally spaced relation for turning therewith and having detents in the peripheries thereof respectively, a manually controlled member rotatably mounted on said frame in parallel relation with said last mentioned tuning shaft and having detents in the periphery thereof corresponding in number to the number of said disks, pawls pivotally mounted on said frame and corresponding in number to the number of said disks and each disposed in alignment with one of the disks and with one of the detents in said manually controlled member, said pawls having projections adapted to simultaneously engage in the detents respectively in the disks and manually controlled member to stop the turning of the last mentioned tuning shaft, an electric motor operatively connected with said drive shaft for turning the same, a starting switch in circuit with said motor, means carried by said second mentioned cooperating means adapted to be engaged by said pawls respectively for closing the switch to start said motor with the setting of the manually controlled member for engagement by any one of said pawls, and means carried by said second mentioned cooperating means adapted to be engaged by the pawls respectively for disengaging said cooperating means when any one of the pawls engages the disks to stop the turning of said second mentioned tuning shaft.

2,613,322

DEVICE FOR HOLDING MASS SPECTROMETER ON A PRESET MASS PEAK

Charles F. Robinson, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application November 15, 1949, Serial No. 127,411
14 Claims. (Cl. 250—41.9)



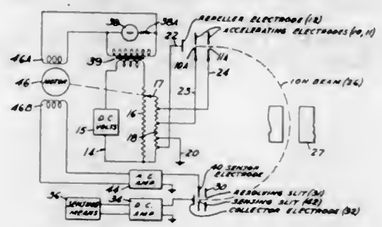
1. In mass spectrometry involving ionizing a sample to be analyzed, propelling the ions by means of a D. C. accelerating potential into an analyzing zone as a heterogeneous beam, subjecting the ions in the analyzing zone to a transverse magnetic field to separate the heterogeneous beam into a plurality of diverging beams, focussing one of said beams on an outlet slit in the analyzing zone, discharging the ion beam passing through the outlet slit, and measuring the current developed by discharge of the beam, the improvement which comprises superimposing on the D. C. accelerating potential an A. C. component to cause the ion beam to oscillate transversely with respect to the outlet slit and at an amplitude such that the beam will impinge on an edge of said outlet slit at least once in each cycle of oscillation, detecting the mean position of the oscillating beam, and adjusting the accelerating potential to maintain said mean position centered on said outlet slit.

2,613,323

MASS SPECTROMETRY

George D. Perkins, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application November 15, 1949, Serial No. 127,447
16 Claims. (Cl. 250—41.9)



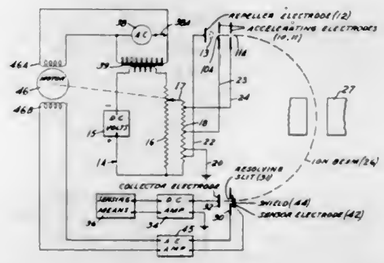
1. In mass spectrometry involving ionizing a sample to be analyzed, propelling the ions by means of a D. C. accelerating potential into an analyzer region, subjecting the ions in the analyzer region to a transverse magnetic field to separate them into individual ion beams, focussing one of said ion beams through a resolving slit in a terminal electrode, discharging the beam passing through the resolving slit and sensing the current developed by discharge of the beam, the improvement comprising passing the ion beam through a sensing slit after passage through the resolving slit and prior to discharging it, superimposing on the D. C. accelerating potential an A. C. component to cause the ion beam to oscillate transversely with respect to the sensing slit, detecting uncentered oscillation of the beam and adjusting the accelerating potential to restore centered oscillation.

2,613,324

MASS SPECTROMETRY

George D. Perkins and Charles F. Robinson, Pasadena, Calif., assignors to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application November 15, 1949, Serial No. 127,448
21 Claims. (Cl. 250—41.9)



1. In mass spectrometry involving ionizing a sample to be analyzed, propelling the ions by means of a D. C. accelerating potential into an analyzer region, subjecting the ions in the analyzer region to a transverse magnetic field to

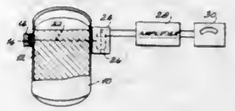
separate them into individual ion beams, focussing one of said ion beams through a resolving slit, discharging the beam passing through the resolving slit, and sensing the current developed by discharge of the beam, the improvement comprising superimposing on the D. C. accelerating potential an A. C. component to cause the ion beam to oscillate transversely with respect to the resolving slit and with an amplitude less than that which would cause the beam to strike a side edge of the slit, detecting uncentered oscillation of the beam and adjusting the accelerating voltage to restore centered oscillation.

2,613,325

METHOD OF DETERMINING PROPORTIONS IN COMPOSITIONS OF SUBSTANCES

Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application June 20, 1950, Serial No. 169,257
5 Claims. (Cl. 250—43.5)



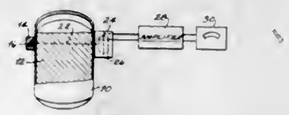
1. The method of determining the proportions of two substances in a mixture which comprises transmitting a beam of neutrons through said mixture over a predetermined path, transmitting said beam through mixtures of said substances wherein the proportions of the substances are known while maintaining the length of the path the same as for said first transmission, measuring the intensities of said beam after being transmitted through said unknown mixture and said known mixtures, and from a comparison of the measurements so obtained calculating the proportions of the substances in the unknown mixture.

2,613,326

METHOD OF DETERMINING PROPORTIONS IN COMPOSITIONS OF SUBSTANCES

Gerhard Herzog, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application June 20, 1950, Serial No. 169,258
5 Claims. (Cl. 250—43.5)



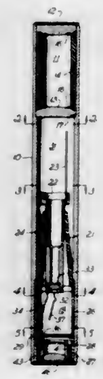
1. The method of determining the proportions of two substances in a mixture which comprises transmitting a beam of electrons through said mixture over a predetermined path, transmitting said beam through mixtures of said substances wherein the proportions of the substances are known while maintaining the length of the path the same as for said first transmission, measuring the intensities of said beam after being transmitted through said unknown mixture and said known mixtures, and from a comparison of the measurements so obtained calculating the proportions of the substances in the unknown mixture.

2,613,327

DOSIMETER

Arnold O. Beckman, Altadena, Harold H. Herd, South Pasadena, and Alfred D. Robinson, Pasadena, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application January 5, 1951, Serial No. 204,522
10 Claims. (Cl. 250—83.6)



2. A radiation dosimeter comprising a housing enclosing an ionizable atmosphere, an ionization chamber and an electroscope chamber within said housing, an electrically conducting charge-receiving member centrally located within said housing, a hollow conical insulator disposed about said charge-receiving member and in rigid contact therewith, said insulator extending to the inner surface of said housing and being rigidly secured thereto thereby supporting and insulating said charge-receiving member which, together with said insulator, separates said ionization chamber from said electroscope chamber, an electrode electrically connected to said charge-receiving member and extending into said ionization chamber, a plurality of electroscope electrodes electrically connected to said charge-receiving member and extending into said electroscope chamber adjacent each other, one of said electrodes comprising a flexible member readily deflected under the influence of electrostatic forces, charging means for applying a potential difference between said charge-receiving member and said housing, and means for optically viewing the position of said flexible electroscope electrode.

2,613,328

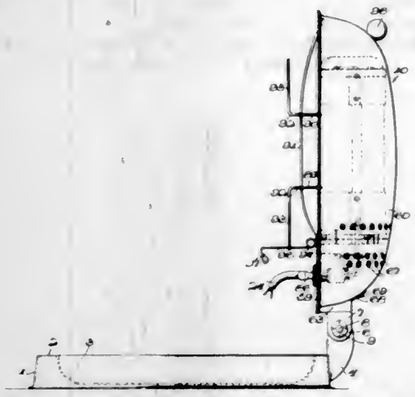
LAMP

George F. Embshoff, Hamilton County, and George Sperti, Cincinnati, Ohio, assignors to The Institutum Divi Thomae Foundation, Cincinnati, Ohio, an Ohio corporation not for profit

Application July 14, 1950, Serial No. 173,824
6 Claims. (Cl. 250—85)

1. A lamp of the type described comprising a base having a pivot mounting at one end, a cover unit movable into juxtaposition with said base and cooperating therewith to form a housing, said cover unit comprising a supporting plate and a dished elongated cover element pivoted at one end on said mounting, said plate having a section forming a partition across the end of said cover element adjacent said pivot mounting and said element beyond said partition comprising a reflector, a substantially tubular ultraviolet lamp and an elongated ballast resistance means extend-

ing in spaced substantially parallel relation with one another and with said reflector and each having one end mounted on said partition, a lamp supply cord entering the compartment formed



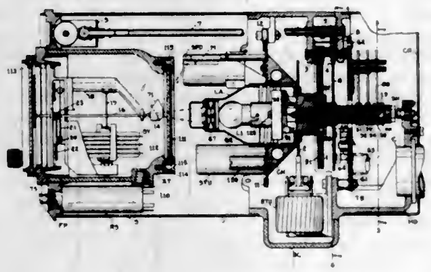
in the end of said cover unit behind said partition, and electrical connections between said cord, lamp and resistance means and enclosed in said compartment.

2,613,329

ALTIMETER SWITCH

Ralph W. Hewes, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

Application April 13, 1949, Serial No. 87,183
16 Claims. (Cl. 250—203)



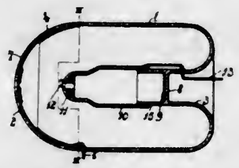
1. In a circuit controlling device operated in accordance with changes in altitude, an altimeter having a shaft rotated to different altitude positions in accordance with changes in altitude, a rotatable contact carrying chassis mounted with its axis coincident with the axis of said shaft, two photoelectric circuit elements mounted adjacent each other near the rim of said chassis, an inclined mirror mounted at the axis of said shaft and rotated therewith for causing a light beam to describe a circular path along the rim of said chassis, two slightly spaced mirrors attached to said chassis and located between said two photoelectric circuit elements at such angles with respect to each other that a light beam from the center of said chassis falling on one mirror is reflected to one photoelectric element and falling on the other mirror is reflected to the other photoelectric circuit element, an incandescent lamp and light focusing means mounted at the center of said chassis for causing a beam of light to fall on said inclined mirror, slip rings mounted upon said chassis for making connections from the circuit elements mounted upon said chassis to external control circuit means, and electromechanical means governed by said external control circuit means for imparting clockwise rotation to said chassis when said light beam impinges upon the light sensitive portion of one of said photoelectric circuit elements and for imparting counter-clockwise rotation to said chassis when said light beam impinges upon the light sensitive portion of the other of said photoelectric circuit elements, whereby said traveling light beam tends to impinge upon said space between said two mirrors attached to said chassis.

2,613,330

CATHODE-RAY IMAGE CONVERTER TUBE

Hajo Bruining, Floris de Boer, and Pieter Schagen, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application November 4, 1950, Serial No. 194,074
In the Netherlands November 25, 1949
4 Claims. (Cl. 313—65)



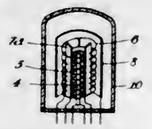
1. A cathode ray image converting device comprising a carrier member, a photoelectric layer mounted on said carrier member and having an active area with a given boundary, said carrier member having within the boundary of said area a portion defining a non-photoelectrically active figure of given configuration on said photoelectric layer, an electron-responsive screen, and an electron focussing member interposed between said layer and said screen.

2,613,331

SCREEN GRID STRUCTURE FOR ELECTRON DISCHARGE TUBES

Johan Lodewijk Hendrik Jonker and Adrianus Johannes Wilhelmus Marie van Overbeek, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 15, 1946, Serial No. 683,591
In the Netherlands February 16, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 16, 1963
1 Claim. (Cl. 313—300)



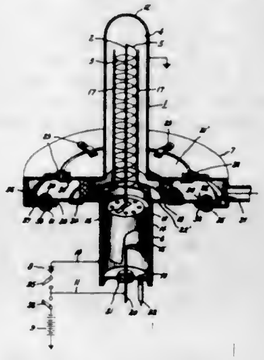
An electric discharge tube comprising an envelope, a set of concentric electrodes within said envelope comprising an anode, a cathode, two electron permeable control grids interposed between said anode and said cathode, and a screen grid interposed between said control grids and consisting of a plurality of thin substantially planar strips having spacings therebetween, the longest dimension of each portion being greater than the said spacing between adjacent portions, said strips being disposed substantially coincident with radial planes through the axis of said cathode.

2,613,332

ELECTRIC DISCHARGE DEVICE

Elmer D. McArthur, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 14, 1949, Serial No. 104,772
6 Claims. (Cl. 315—5)



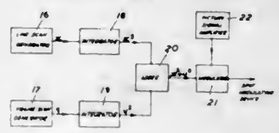
1. An electron discharge device for use at high frequencies comprising an anode, a grid and a cathode, said cathode including a directly energizable filamentary member, said grid including a structure symmetrically surrounding said cathode, means connecting one end of said cathode directly to the adjacent part of said grid structure, means connecting the other end of said cathode to said grid structure and forming a low impedance path between said cathode and said grid at the frequencies of operation of the discharge device whereby said cathode and grid operate essentially as a high frequency unit, and resonator structure connected between said anode and the essentially high frequency unit formed with said cathode and said grid.

2,613,333

TELEVISION RECEIVING APPARATUS

Eric William Bull, Hounslow, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain

Application July 24, 1948, Serial No. 40,591
In Great Britain July 31, 1947
5 Claims. (Cl. 315—22)



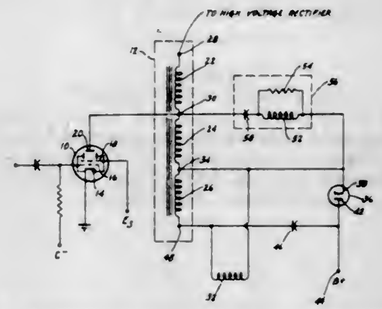
1. Television or like receiving apparatus comprising a cathode ray tube having a screen for reconstituting an image, means for varying the intensity of the beam of said tube under the control of picture signals whereby the size of the spot reproduced on said screen tends to vary, means for causing said beam to scan lines on said screen, means for imparting to said beam an elongated form in cross section with the major dimension of cross section lying transversely of said lines, means for varying said major dimension, means for generating control signals varying in accordance with the amplitude of the picture signals, and means for applying said control signals to change said dimension in accordance with said signals to counteract the tendency for the spot size to vary and to maintain the width of the lines scanned substantially constant.

2,613,334

ELECTRICAL SYSTEM

Charles F. Otis, Roslyn, and Winston H. Starks, Philadelphia, Pa., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application January 18, 1952, Serial No. 267,148
8 Claims. (Cl. 315—27)



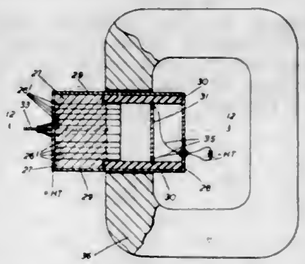
1. A magnetic deflection system comprising a pulse signal source operating at a given repetition rate, a transformer comprising a plurality of winding elements connected in series and susceptible to ringing currents at a frequency different from said repetition rate, means to couple said winding elements to said source as a load therefor, a deflection element coupled to one of said winding elements, means to damp oscillations in said one winding element, and means to suppress ringing currents in another of said winding elements, said last-named means comprising a network shunting a portion of said other winding element, said network having a low impedance at the said frequency of said ringing currents and a high impedance at a frequency corresponding to said repetition rate.

2,613,335

CAVITY RESONATOR ELECTRONIC OSCILLATION GENERATOR

John Heaver Fremlin and Roger Norman Hall, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

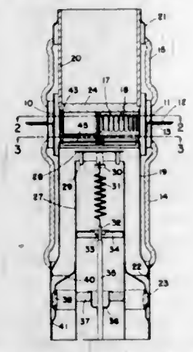
Application October 28, 1942, Serial No. 463,699
In Great Britain December 12, 1941
13 Claims. (Cl. 315—40)



2. An electron discharge device with a means for producing a concentrated electron beam comprising a cavity resonator, a wall of said resonator provided with an opening through which the

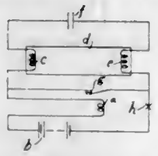
oscillating field of the resonator can extend, a cathode having an electron emitting surface of substantial length in one direction opposite and equidistant from the resonator wall, means connected to said resonator and said cathode for producing a potential difference therebetween, and means adjacent said cathode and said resonator for maintaining a magnetic field therebetween, the field having lines of force perpendicular to said direction of the length thereof and an intensity adapted to deflect electrons emitted along the length of said surface in arcuate paths having a substantial portion equidistant from the resonator wall adjacent the opening and concentrated across the opening.

2,613,336
GAS FILLED THYRATRON
Howard D. Doolittle, Stamford, Conn., assignor to Machlett Laboratories, Incorporated, Springdale, Conn., a corporation of Connecticut
Application June 15, 1951, Serial No. 231,772
35 Claims. (Cl. 315—62)



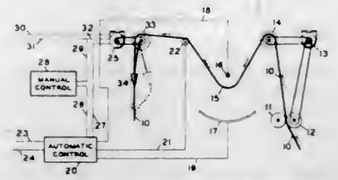
1. An electron tube comprising a vacuum envelope filled with low pressure gas and having therein an anode, an emitting cathode, a grid wall between the anode and the cathode which has perforations therein opposing the anode and the edges of which terminate at portions of the vacuum envelope, baffle means so positioned between cathode and grid and close to the grid perforations that the path lengths between cathode and anode through each grid perforation are substantially equal, metallic deionization vanes affixed to portions of the grid, and auxiliary electrodes between the grid and the anode having perforations therethrough.

2,613,337
MEANS FOR ACTUATING GAS-DISCHARGE LAMPS
Thomas Curzon, London, England, assignor to C. A. V. Limited, London, England
Application July 20, 1949, Serial No. 105,824
In Great Britain July 22, 1948
2 Claims. (Cl. 315—97)



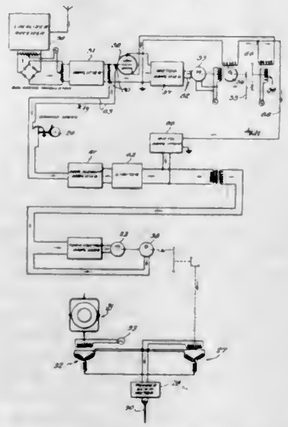
1. Means for utilizing a low-voltage direct-current source to operate a high-voltage tubular gas discharge lamp of the type having at each end thereof a filamentary electrode provided with a pair of terminals, comprising the combination with said lamp of a condenser electrically connected immediately to one terminal of each of the lamp electrodes, a pair of vibrator-type interrupter contacts connected immediately between the respective other terminals of the lamp electrodes, and a low-voltage source of direct current and an energy-storing inductance connected in series across said interrupter contacts, said inductance being arranged to constitute with said contacts a continually operable interrupter utilizing the magnetic field of said inductance to open said contacts periodically to discharge energy stored in said inductance through said electrodes and said condenser.

2,613,338
ELECTRIC MOTOR CONTROL SYSTEM
James C. Ryder, Fairhaven, Mass., assignor to United Merchants and Manufacturers, Inc., Wilmington, Del., a corporation of Delaware
Application May 20, 1949, Serial No. 94,327
14 Claims. (Cl. 318—6)



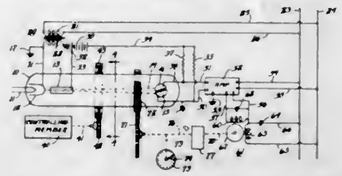
1. A device for controlling an electric D. C shunt motor, comprising a cold cathode tube, alternate means for completing the starter anode circuit of said cold cathode tube, a relay activated by the plate circuit of said tube, a second relay having a ratchet and controlled by the first relay, said second relay adapted to alternately increase or decrease the resistance in the field circuit of said motor, and simultaneously shift the starter anode circuit of the cold cathode tube from one to the other of said circuit completing means.

2,613,339
RADIO NAVIGATION SYSTEM FOR DIRIGIBLE CRAFT
Winslow Palmer, West Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application July 16, 1947, Serial No. 761,354
23 Claims. (Cl. 318—16)



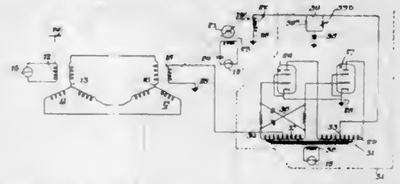
1. A radio navigation system for dirigible craft comprising radio means defining a line of position distant from the craft, means for providing a first signal in accordance with substantially the perpendicular distance of the craft from the line of position defined by said radio means, means for providing a second signal in accordance with the rate of change of the perpendicular distance of the craft from the line of position defined by said radio means, steering means on the craft for directing the longitudinal axis thereof operated by the combined signals of said first and second signal means, and means for limiting the signal of said first signal means to an amplitude equal to or less than the maximum amplitude of the signal derivable from said second signal-providing means.

2,613,340
ELECTRON BEAM DEFLECTION AND REBALANCING APPARATUS
Waldo H. Kliever, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 28, 1948, Serial No. 35,614
12 Claims. (Cl. 318—28)



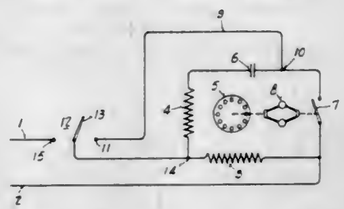
1. In combination: means for directing an electron beam along an axis; target means disposed about said axis for impingement by said beam; deflecting means having spaced, opposed poles to provide a directed field to deflect said beam from said axis to produce a signal on said target means; means mounting said deflecting means for rotation about an axis perpendicular to said field and aligned with said axis of said beam; and means responsive to a condition to be sensed to position said deflecting means in accordance with the value of said condition.

2,613,341
CONTROL CIRCUITS
Gerald L. Tawney, Port Washington, N. Y.
Application August 8, 1951, Serial No. 240,909
8 Claims. (Cl. 318—30)



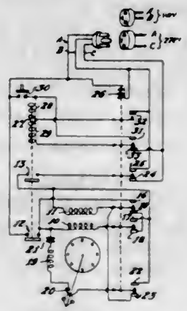
8. A control circuit for a two-phase motor having a pair of windings comprising a source of alternating voltage coupled to one of said windings, a pair of gas discharge tubes each having an anode and a grid, a transformer having a primary winding excited from said source and a secondary winding having a center tap, said anodes being directly coupled to respective ends of said secondary winding, and said second motor winding being coupled to said center tap to be excited by the sum of the currents through said tubes, means for applying equal alternating bias voltages anti-phasally to said grids, and means for applying a control signal cophasally to said same grids.

2,613,342
DYNAMIC BRAKING CIRCUITS FOR ELECTRIC MOTORS
George G. Thompson, Pasadena, and Arthur J. Vail, Altadena, Calif., assignors to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application November 2, 1949, Serial No. 125,104
13 Claims. (Cl. 318—211)



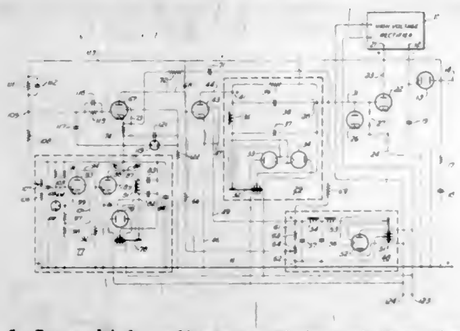
1. In a dynamic braking arrangement adapted to be employed with a single phase motor having main and starting windings, a speed-responsive control switch for the starter winding, a capacitor, and switching means to disconnect said motor from its source of energy and substantially simultaneously short one of said windings through said capacitor independently of said starter winding switch to dynamically brake said motor.

2,613,343
PLURAL VOLTAGE MOTOR
Roy Ober, Springfield, Ohio, assignor to Robbins & Myers, Inc., Springfield, Ohio, a corporation of Ohio
Application February 1, 1949, Serial No. 75,987
3 Claims. (Cl. 318—225)



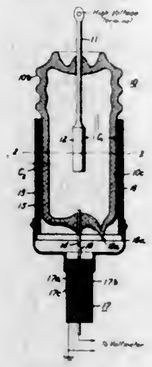
1. A control system for an A. C. motor operable on either of two voltages, comprising a polarized plug having a plurality of prongs adapted to be inserted in a polarized receptacle having a plurality of sockets, said polarized receptacle, when connected to one of said operating voltages having certain of said sockets connected to a source of said voltage and the remainder of its sockets blank, and when connected to the other of said voltages having sockets, other than the sockets connected to said first voltage source, connected to a source of said second voltage and the remainder of its sockets blank, a plurality of leads connected between said prongs and said motor for energizing said motor from either of said voltages, relay means having a coil connected between certain of said leads so that said coil is energized when said motor is connected to one of said voltages and non-energized when connected to the other of said voltages, and switch means operated by said coil for changing the circuit connections of said motor to adapt it to operate on either of said voltages.

2,613,344
HIGH-VOLTAGE REGULATOR
Walter H. Nelson, Cadillac, Mich., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application March 8, 1949, Serial No. 80,269
5 Claims. (Cl. 323—22)



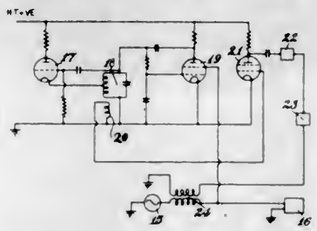
1. In a high voltage regulator of the direct coupled type and adapted to be connected to a source of voltage to be regulated and a load circuit requiring a constant voltage, the combination comprising a variable impedance means serially connected with said load circuit across said source of unregulated voltage, a voltage dividing network, a source of standard voltage connected to said voltage dividing network to provide a differential voltage, and a broadband direct coupled amplifier having a negative feedback circuit therein, said amplifier being connected to said voltage dividing network for receiving said differential voltage therefrom and also connected to said variable impedance, said feedback circuit comprising resistive and reactive elements forming a high impedance at low frequencies and a low impedance at high frequencies, said amplifier serving to apply an amplified differential voltage of such sign and magnitude to said variable impedance as to cause said variable impedance to maintain said load voltage substantially constant.

2,613,345
VOLTAGE DIVIDER
Edmund H. Osterland, Parsippany, N. J.
Application June 5, 1946, Serial No. 674,606
5 Claims. (Cl. 323—79)



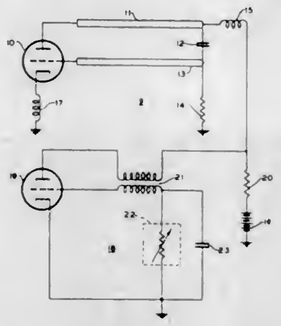
1. A voltage divider of the capacity type comprising an envelope of dielectric material, an electrode supported within said envelope, voltage input terminal means connected to said electrode, a first conductive layer on the exterior surface of said envelope forming with said electrode the plates of a first capacitor, a layer of dielectric material overlying said first conductive layer, and a second conductive layer overlying said dielectric layer and substantially the entire surface area of said first conductive layer to constitute a shield for the layer against stray electrostatic fields, said first and second conductive layers forming the plates of a second capacitor constituting a measuring output adapted for connection to a high impedance voltmeter.

2,613,346
ELECTRIC CONTROL SYSTEM
James Robinson, London, England
Application March 15, 1949, Serial No. 81,490
In Great Britain December 17, 1946
19 Claims. (Cl. 323—100)



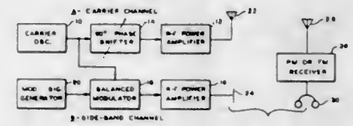
1. An electric control system comprising means for generating a first A. C. signal having a characteristic depending on the value of a variable quantity; means for effecting modulation of a second A. C. signal with said first signal so as to produce a number of separable side bands the amplitude of which varies with the characteristic of said first signal in a non-linear manner; means for isolating the resultant signal in one of the frequency bands from the spectrum of frequency bands so produced; and means for employing said resultant signal as a controlling signal.

2,613,347
MODULATOR FOR RADIOSONDE APPARATUS
William Todd, Neptune City, N. J., assignor to the United States of America as represented by the Secretary of War
Application September 12, 1945, Serial No. 615,902
3 Claims. (Cl. 332—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



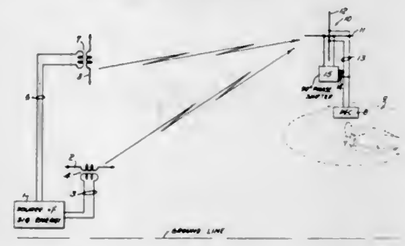
1. In a radiosonde transmitter for transmitting signals varying in accordance with atmospheric conditions, a vacuum tube oscillator, a modulator for modulating the oscillator output, said modulator including a vacuum tube whose grid circuit includes a resistance whose value is altered in accordance with changes in atmospheric conditions to vary the frequency of the modulator, and a resistor common to the plate circuits of both said vacuum tube oscillator and said modulator and coupled to a source of positive plate potential, whereby variations in the frequency of said modulator will cause the plate voltage of said vacuum tube oscillator to be similarly modulated and thereby modulate the output of said oscillator.

2,613,348
FREQUENCY MODULATION SYSTEM
Edwin K. Stodola, Neptune, N. J.
Application October 6, 1944, Serial No. 557,539
16 Claims. (Cl. 343—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



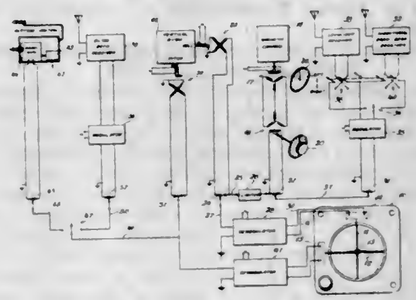
9. A system for radiating a direction dependent wave pattern comprising a source of wave energy, a pair of radiating channels coupled to said source for separately radiating said wave energy from substantially the same point in said medium with different degrees of directivity, means in at least one of said channels for amplitude modulating the energy therein, and means in at least one of said channels for producing a substantially constant phase displacement of less than 180° between the radiated wave fields at all points in said medium about said point, whereby when the radiated waves are received and combined at any point in said medium they produce a resultant wavelength modulated signal having a degree of modulation which is dependent upon direction.

2,613,349
ANTENNA
Armig G. Kandoian, Glen Rock, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 27, 1949, Serial No. 112,820
7 Claims. (Cl. 343—100)



1. Means for transmitting high frequency waves comprising an antenna disposed at a given elevation and arranged to radiate vertically polarized waves, a second antenna disposed at a different elevation than the first antenna and arranged to radiate horizontally polarized waves, the difference in elevations of said antennas being sufficient that in the space about the antennas the null points of the vertical polarizations are non-coincident with the null points of the horizontal polarization, and means for supplying said antennas simultaneously with high frequency energy.

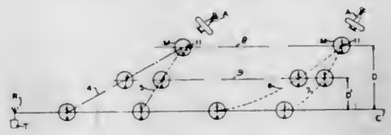
2,613,350
FLIGHT INDICATING SYSTEM FOR DIRIGIBLE CRAFT
Spencer Kellogg, 2nd, Glen Head, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application March 16, 1948, Serial No. 15,064
34 Claims. (Cl. 343—107)



1. In a flying aid system for manually piloted dirigible craft, the combination of; a meter having a face with a reference position, a pointer movable relative to the reference position, and means for moving said pointer; first signal means for providing an output in accordance with changes of the craft from a predetermined heading, second signal means for providing an output in accordance with the angle of the bank of the craft, and coordinating means for said first and second signal means operatively connected to said pointer moving means to indicate to the pilot the sense and amount of the attitude change of the craft required to restore the same to the predetermined heading.

13. A navigating system comprising means for supplying a signal proportional to the lateral displacement of a craft from a directional radio path, means for supplying a signal in accordance with the rate of approach of the craft toward the radio defined path, means for providing a signal proportional to the angle of bank of the craft, and means connected to receive said signals for supplying an output proportional to the algebraic sum thereof.

2,613,351
RADIO NAVIGATION DEVICE
Gregor L. Lang, Suffield, Conn., assignor to The Sperry Corporation, a corporation of Delaware
Continuation of abandoned application Serial No. 497,786, August 7, 1943. This application May 18, 1948, Serial No. 27,732
13 Claims. (Cl. 343—107)



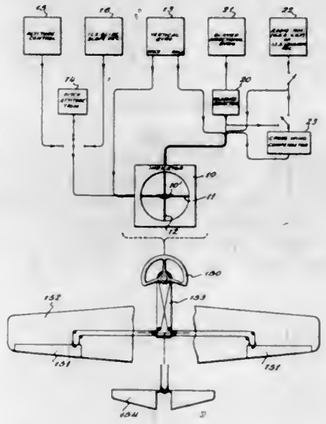
5. An indicator system for denoting to the pilot of an aircraft correct instantaneous headings of the aircraft in order to effect an asymptotic approach to and maintenance of flight thereafter along a radio beam-defined flight

path, said system comprising means including a radio receiver for providing a first signal proportional to displacement of said craft laterally from said path, means controlled by said first signal for deriving a second signal proportional to the time rate of change of said first signal, and means for algebraically combining said signals and supplying an indication to the pilot proportional to the resultant signal.

2,613,352
RADIO NAVIGATION SYSTEM
Spencer Kellogg, 2nd, Glen Head, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application November 18, 1949, Serial No. 128,227
32 Claims. (Cl. 343—108)

1. A navigating system for aircraft whereby the craft may be caused to approach and thereafter maintain a chosen course, said system comprising means for obtaining a signal proportional to the error between the present craft course and the desired course, means for limiting the maximum value of said signal to some predetermined value whereby to limit the angle of approach of the craft when operated in accordance with said signal, means for obtaining a signal corresponding to the angle of bank of the craft, and means connected to receive said signals for supplying an output proportional to the algebraic sum thereof.

29. In a navigating system by means of which a craft may be controlled to approach and thereafter maintain a chosen course, means for supplying a signal proportional to vertical craft displacement from a radio defined glide path, means for providing a signal corresponding to the pitch angle of the craft, means for providing

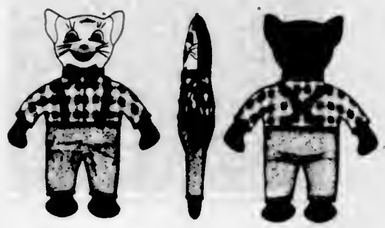


a signal having a predetermined fixed value dependent upon the normal landing pitch attitude angle of the craft, and means connected to receive said signals for supplying an output proportional to the algebraic sum thereof.

DESIGNS

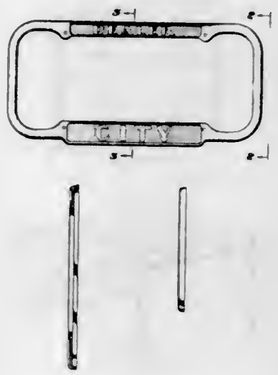
OCTOBER 7, 1952

167,877
DOLL
Lenna D. Ballew, Chicago, Ill.
Application September 18, 1951, Serial No. 16,679
Term of patent 14 years
(Cl. D34—4)



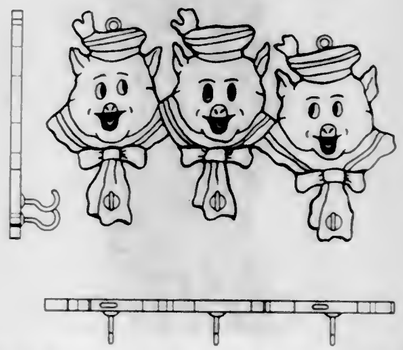
The ornamental design for a doll, as shown.

167,878
LICENSE PLATE HOLDER
Joseph C. Bessolo, Glendale, Calif.
Application February 14, 1949, Serial No. 829
Term of patent 14 years
(Cl. D14—6)



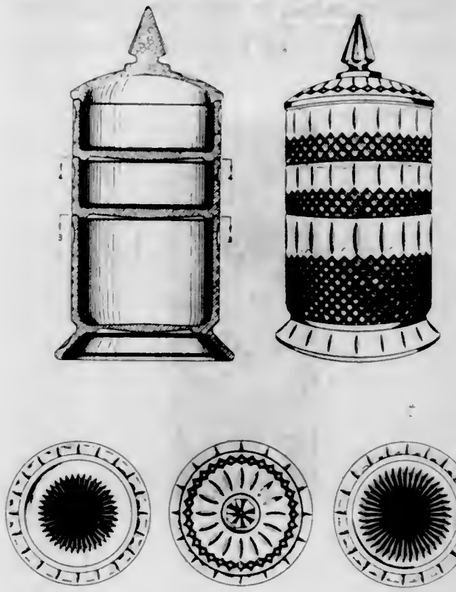
The ornamental design for a license plate holder, as shown and described.

167,879
RACK FOR POT HOLDERS
Barney L. Buchanan, Hayward, Calif.
Application May 13, 1949, Serial No. 2,625
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a rack for pot holders, as shown.

167,880
STACKED SNACK JAR OR SIMILAR ARTICLE
Albert J. Dreitzer, New York, N. Y., assignor to Pitman-Dreitzer & Co. Inc., New York, N. Y., a corporation of New York
Application April 26, 1952, Serial No. 19,493
Term of patent 14 years
(Cl. D36—2)



The ornamental design for a stacked snack jar or similar article, substantially as shown.

167,881
LACE OR SIMILAR ARTICLE
Bert Edson, Pawtucket, R. I., assignor to North American Lace Co., Inc., Philadelphia, Pa.
Application May 24, 1952, Serial No. 19,882
Term of patent 3½ years
(Cl. D47—6)



The ornamental design for a lace or similar article, substantially as shown and described.

167,882
LACE
Herbert Farnsworth, Norwalk, Conn., assignor to I. Zendman, Inc., New York, N. Y.
Application May 17, 1952, Serial No. 19,768
Term of patent 3½ years
(Cl. D47—6)



The ornamental design for a lace, substantially as shown and described.

167,883
EMBOSSED PLASTIC SHEET OR SIMILAR ARTICLE
Adele Q. Freedman, New York, N. Y.
Application June 5, 1952, Serial No. 20,052
Term of patent 14 years
(Cl. D87—3)



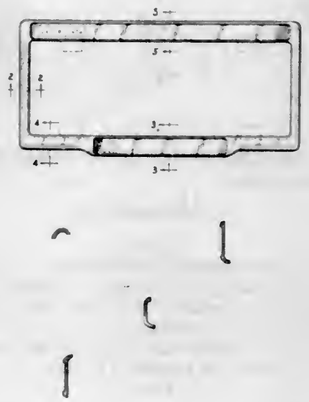
The ornamental design for an embossed plastic sheet or similar article, substantially as shown and described.

167,884
EXTENSION COMMODE
Harry B. Gaines, Chicago, Ill., assignor to Saginaw Furniture Shops, Inc., Chicago, Ill., a corporation of Michigan
Application January 31, 1951, Serial No. 14,050
Term of patent 14 years
(Cl. D33—6)



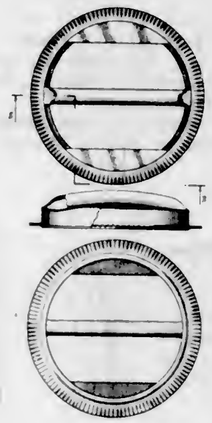
The ornamental design for an extension commode, substantially as shown and described.

167,885
AUTOMOBILE LICENSE PLATE HOLDER
George A. Gazan, Jr., Ferndale, Mich.
Application April 16, 1949, Serial No. 2,075
Term of patent 14 years
(Cl. D14—6)



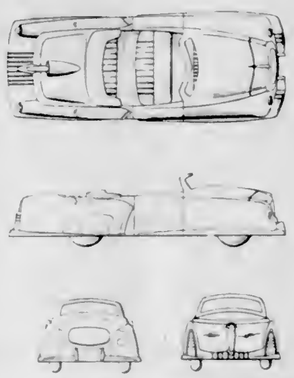
The ornamental design for an automobile license plate holder as shown and described.

167,886
PIE CRUST CRIMPER
Gertrude B. Genhart, Meadville, Pa.
Application October 5, 1951, Serial No. 16,840
Term of patent 7 years
(Cl. D44—29)



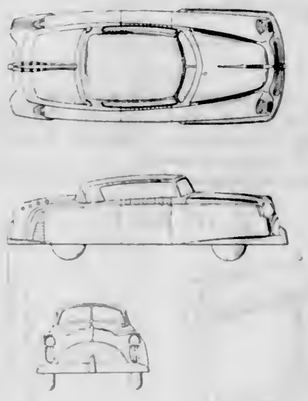
The ornamental design for a pie crust crimper, substantially as shown.

167,887
TOY AUTOMOBILE
Robert I. Genin, Hollis, and Gerald E. Stahl, Rye, N. Y., assignors to Archer Plastics, Inc., Astoria, N. Y.
Application February 7, 1952, Serial No. 18,430
Term of patent 3½ years
(Cl. D34—15)



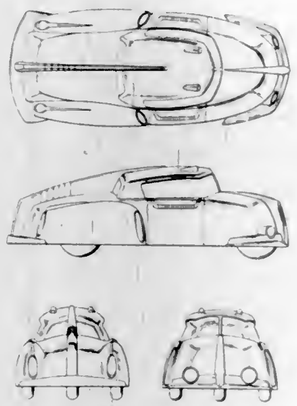
The ornamental design for a toy automobile, substantially as shown.

167,888
TOY AUTOMOBILE
Robert I. Genin, Hollis, and Gerald E. Stahl, Rye, N. Y., assignors to Archer Plastics, Inc., Astoria, N. Y.
Application February 8, 1952, Serial No. 18,447
Term of patent 3½ years
(Cl. D34—15)



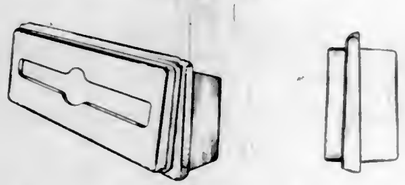
The ornamental design for a toy automobile, substantially as shown.

167,889
TOY AUTOMOBILE
Robert I. Genin, Hollis, and Gerald E. Stahl, Rye, N. Y., assignors to Archer Plastics, Inc., Astoria, N. Y.
Application February 11, 1952, Serial No. 18,466
Term of patent 3½ years
(Cl. D34—15)



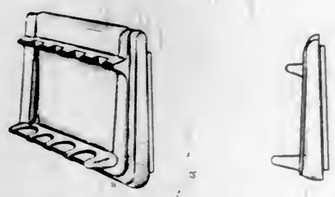
The ornamental design for a toy automobile, substantially as shown.

167,890
TISSUE HOLDER
Michael Hallward, Swampscott, Mass., assignor to Stylon Corporation, Milford, Mass., a corporation of Massachusetts
Application November 29, 1951, Serial No. 17,552
Term of patent 14 years
(Cl. D4—3)



The ornamental design for a tissue holder, substantially as shown.

167,891
TOOTHBRUSH HOLDER
Michael Hallward, Swampscott, Mass., assignor to Stylon Corporation, Milford, Mass., a corporation of Massachusetts
Application November 29, 1951, Serial No. 17,554
Term of patent 14 years
(Cl. D4—3)



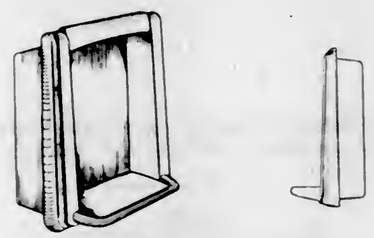
The ornamental design for a toothbrush holder, substantially as shown.

167,892
TOWEL BAR
Michael Hallward, Swampscott, Mass., assignor to Stylon Corporation, Milford, Mass., a corporation of Massachusetts
Application November 29, 1951, Serial No. 17,555
Term of patent 14 years
(Cl. D4—3)



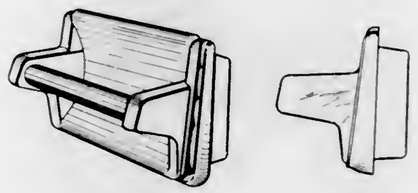
The ornamental design for a towel bar, substantially as shown.

167,893
TUMBLER HOLDER
Michael Hallward, Swampscott, Mass., assignor to Stylon Corporation, Milford, Mass., a corporation of Massachusetts
Application November 29, 1951, Serial No. 17,556
Term of patent 14 years
(Cl. D4—3)



The ornamental design for a tumbler holder, substantially as shown.

167,894
PAPER HOLDER
Michael Hallward, Swampscott, Mass., assignor to Stylon Corporation, Milford, Mass., a corporation of Massachusetts
Application November 29, 1951, Serial No. 17,557
Term of patent 14 years
(Cl. D4—3)



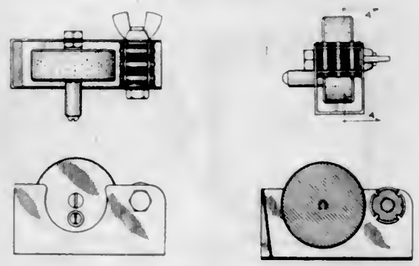
The ornamental design for a paper holder, substantially as shown.

167,895
SOAP HOLDER
Michael Hallward, Swampscott, Mass., assignor to Stylon Corporation, Milford, Mass., a corporation of Massachusetts
Application November 29, 1951, Serial No. 17,558
Term of patent 14 years
(Cl. D4—3)



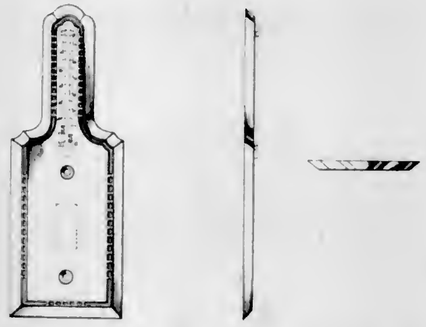
The ornamental design for a soap holder, substantially as shown.

167,896
MULTIPLE POINTER FOR PENCILS
Thaddeus L. E. Haug, Berkeley, Calif.
Application November 5, 1951, Serial No. 17,295
Term of patent 14 years
(Cl. D74—23)



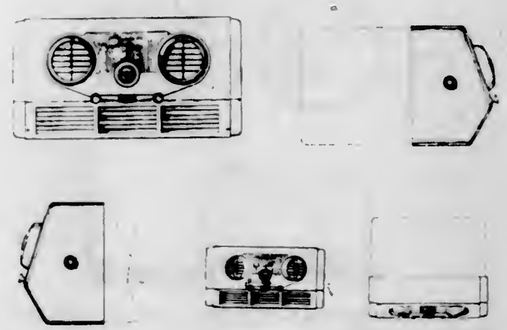
The ornamental design for a multiple pointer for pencils, as shown.

167,897
COMBINED SWITCH PLATE AND THERMOMETER PLATE
James C. Hughes, New City, N. Y.
Application June 11, 1952, Serial No. 20,125
Term of patent 14 years
(Cl. D26—13)



The ornamental design for a combined switch plate and thermometer plate, as shown and described.

167,898
ROOM AIR CONDITIONING UNIT
Bernard W. Jewell, Wichita, Kans., assignor to The O. A. Sutton Corporation, Inc., Wichita, Kans., a corporation of Kansas
Application January 2, 1952, Serial No. 17,895
Term of patent 14 years
(Cl. D62—4)



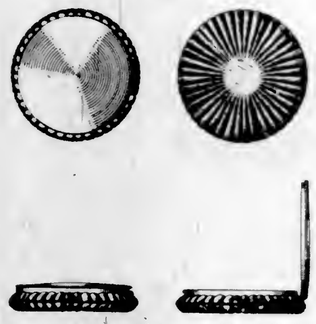
The ornamental design for a room air conditioning unit, as shown and described.

167,899
COMBINATION SCREWDRIVER, CAP REMOVER, ENVELOPE OPENER, AND NAIL FILE
Nicholas Joannides, Ames, Iowa
Application July 15, 1952, Serial No. 20,614
Term of patent 14 years
(Cl. D44—29)



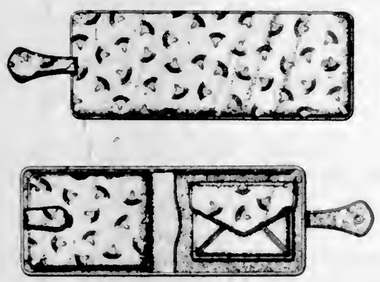
The ornamental design for a combination screwdriver, cap remover, envelope opener, and nail file, as shown.

167,900
COMPACT
Nathan Kasdan, Plainfield, Conn., assignor to Majestic Metal Specialties, Inc., Moosup, Conn., a corporation of Connecticut
Application January 16, 1952, Serial No. 18,087
Term of patent 7 years
(Cl. D86—10)



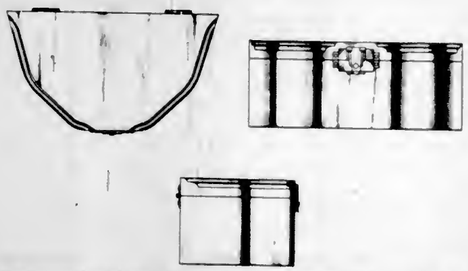
The ornamental design for a compact, substantially as shown.

167,901
WALLET OR SIMILAR ARTICLE
Simon Knee, Newark, N. J.
Application July 5, 1952, Serial No. 20,476
Term of patent 14 years
(Cl. D87—3)



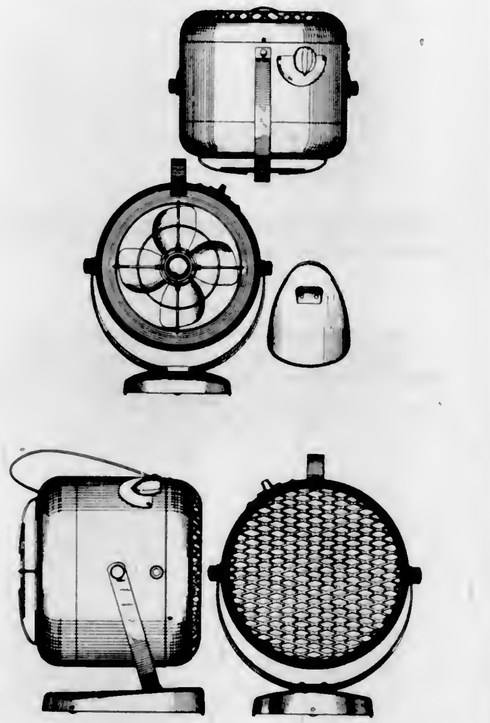
The ornamental design for a wallet or similar article, substantially as shown, and described.

167,902
NOVELTY BOX
Clemens Kraml, Iberia, Mo.
Application July 17, 1950, Serial No. 11,234
Term of patent 14 years
(Cl. D58—12)



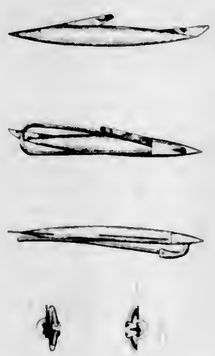
The ornamental design for a novelty box, as shown.

167,903
AIR FAN HEATER
Max E. Lautner, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application January 20, 1951, Serial No. 13,889
Term of patent 14 years
(Cl. D26—7)



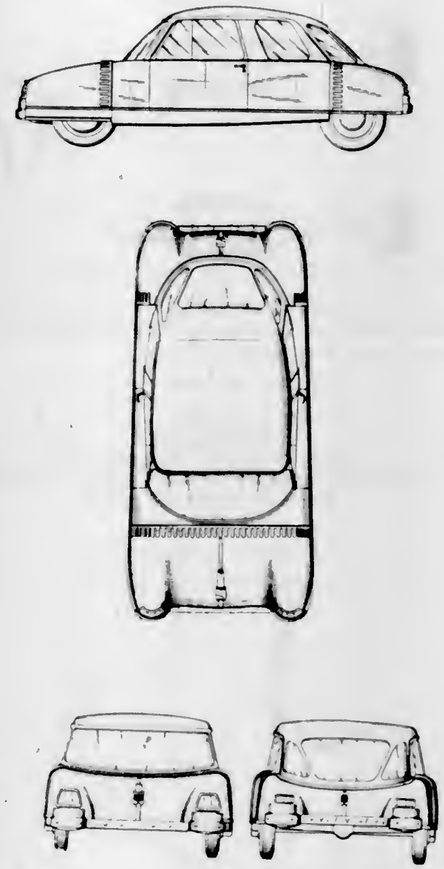
The ornamental design for an air fan heater, substantially as shown.

167,904
TIE CLASP
Raymond Loewy, New York, N. Y.
Application May 14, 1952, Serial No. 19,710
Term of patent 3½ years
(Cl. D17—10)



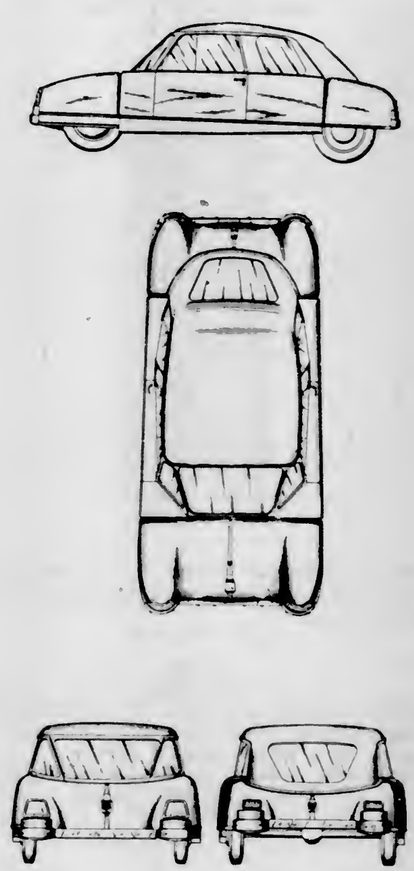
The ornamental design for a tie clasp as shown.

167,905
AUTOMOBILE
Georges H. Muller, Poissy, France
Application October 5, 1950, Serial No. 12,459
Term of patent 3½ years
(Cl. D14—3)



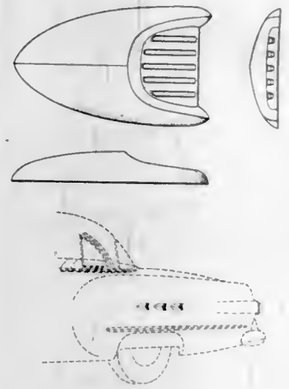
The ornamental design for an automobile, as shown.

167,906
AUTOMOBILE
Georges H. Muller, Poissy, France
Application October 5, 1950, Serial No. 12,460
Term of patent 3½ years
(Cl. D14—3)



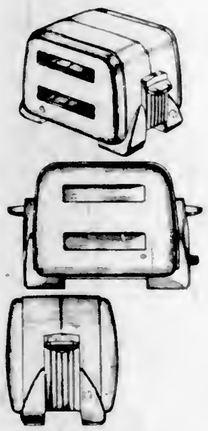
The ornamental design for an automobile, as shown.

167,907
VEHICLE TRIM LOUVER OR SIMILAR ARTICLE
Charles H. Phaneuf, Royal Oak, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application October 10, 1951, Serial No. 16,889
Term of patent 14 years
(Cl. D14—6)



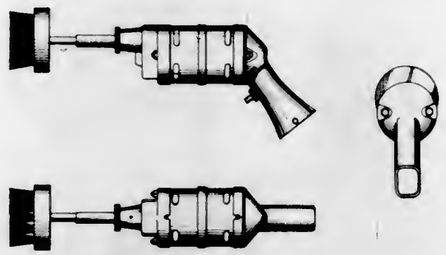
The ornamental design for a vehicle trim louver or similar article, substantially as shown and described.

167,908
TOASTER
Dudley C. Pulliam, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 15, 1952, Serial No. 18,067
Term of patent 14 years
(Cl. D81—10)



The ornamental design for a toaster, as shown and described.

167,909
ROTARY BRUSH TO SHINE SHOES OR SIMILAR ARTICLE
Vincent A. Restagno, Watertown, Mass.
Application January 8, 1951, Serial No. 13,709
Term of patent 7 years
(Cl. D9—2)



The ornamental design for a rotary brush to shine shoes or similar article, substantially as shown and described.

167,910
STOCKING
George W. Smith, Mohnton, Pa.
Application January 2, 1952, Serial No. 17,884
Term of patent 14 years
(Cl. D47—7)



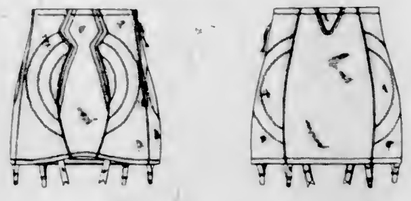
The ornamental design for a stocking, as shown.

167,911
KNITTING DEVICE OR SIMILAR ARTICLE
James Murray Smith, Denver, Colo.
Application May 8, 1952, Serial No. 19,634
Term of patent 14 years
(Cl. D47—5)



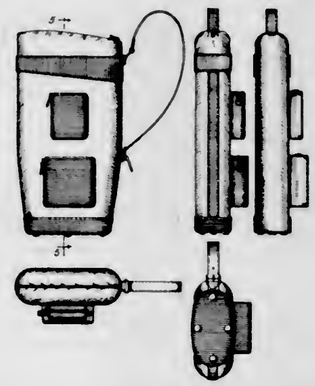
The ornamental design for a knitting device or similar article, substantially as shown.

167,912
GIRDLE
Alan C. Spero, Great Neck, N. Y., assignor to Enchantress Foundations, Inc., Great Neck, N. Y., a corporation
Application May 23, 1952, Serial No. 19,843
Term of patent 3½ years
(Cl. D20—2)



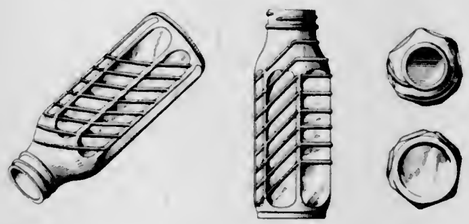
The ornamental design for a girdle, as shown.

167,913
SHOULDER BAG
Charles Stark, Kew Gardens Hills, N. Y.
Application May 16, 1952, Serial No. 19,733
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a shoulder bag, as shown.

167,914
NURSING BOTTLE
Alman J. Taranton, Riverside, Conn.
Application October 23, 1951, Serial No. 17,071
Term of patent 14 years
(Cl. D83—8)



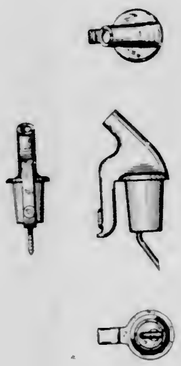
The ornamental design for a nursing bottle, as shown.

167,915
WOVEN ECCLESIASTICAL BANDING
Arthur J. Vervaet, Paterson, N. J.
Application May 6, 1952, Serial No. 19,601
Term of patent 7 years
(Cl. D3—9)



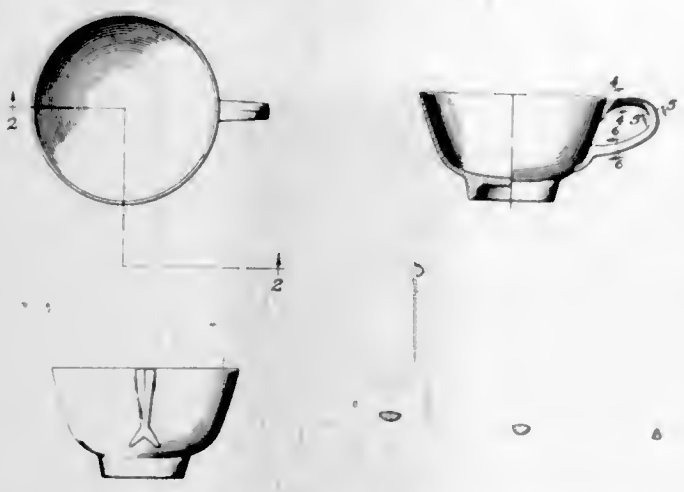
The ornamental design for a woven ecclesiastical banding, substantially as shown.

167,916
DISPENSING STOPPER FOR BOTTLES
August L. Voight, Berea, Ohio
Application November 21, 1951, Serial No. 17,484
Term of patent 3½ years
(Cl. D58—26)



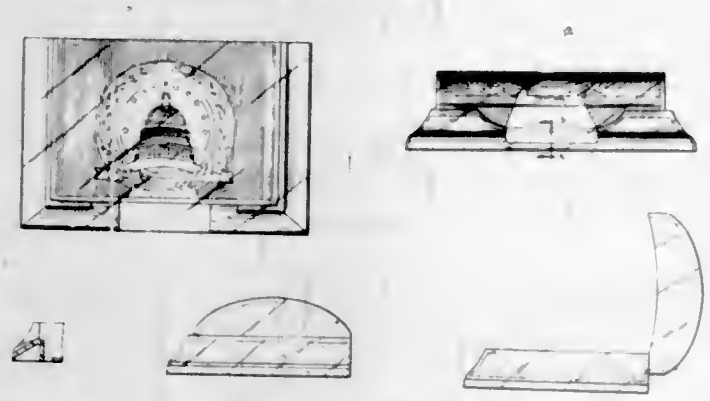
The ornamental design for a dispensing stopper for bottles, as shown.

167,917
CUP
Franz Wagner, Chicago, Ill., assignor to Easterling China Company, Chicago, Ill., a corporation of Illinois
Application October 30, 1951, Serial No. 17,170
Term of patent 14 years
(Cl. D44—9)



The ornamental design for a cup, as shown and described.

167,918
JEWELRY BOX
Milton Weill, New York, N. Y.
Application May 20, 1952, Serial No. 19,790
Term of patent 7 years
(Cl. D80—5)



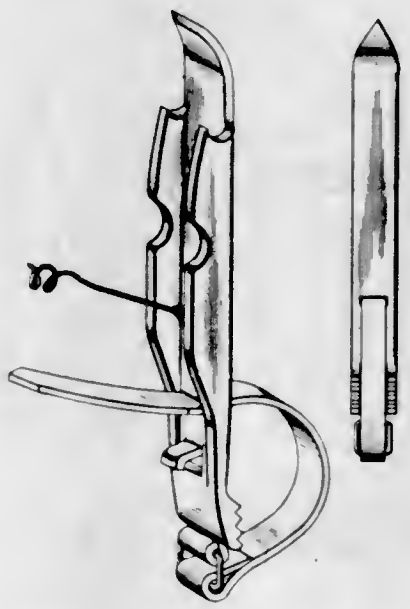
The ornamental design for a jewelry box, as shown.

167,919
INFLATABLE BURRO FOR WATER SPORT
Robert H. Wendt, Evanston, Ill.
Application July 24, 1951, Serial No. 15,999
Term of patent 14 years
(Cl. D34—15)



The ornamental design for an inflatable burro for water sport, as shown.

167,920
COMBINED JAR WRENCH, CAN PUNCH, AND BOTTLE OPENER
Constantine Zuras, Silver Spring, Md.
Application July 17, 1952, Serial No. 20,651
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a combined jar wrench, can punch, and bottle opener, as shown.

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UNITED STATES PATENT OFFICE

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Patents expiring: Patent Numbers 2,017,034 to 2,017,835, inclusive, issued October 15, 1935, expire October 15, 1952

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Air Facts, Inc., New York, N. Y. Periodical. Serial No. 623,447, Oct. 14. Class 38.

Air Reduction Company, Incorporated, New York, N. Y. Inhalation anesthetic. Serial No. 629,275, Oct. 14. Class 18

Air Seal Corporation, Flint, Mich. Building insulation materials. Serial No. 560,081, Oct. 14. Class 12.

Alfra Manufacturing Corporation, New York, N. Y. Fountain pens and pencils. Serial No. 558,767, Oct. 14. Class 37.

Alma Products Company, San Francisco, Calif. Hair milk and scalp conditioner, a face cream, etc. Serial No. 612,232, Oct. 14. Class 51.

American Cyanamid Company, New York, N. Y. Explosive. Serial No. 626,774, Oct. 14. Class 9.

Angelica Uniform Company, St. Louis, Mo. Poplin fabric. Serial No. 627,481, Oct. 14. Class 42.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Bath salts. Serial Nos. 626,138–9, Oct. 14. Class 51.

Askin, Martin L., Philadelphia, Pa. Perforated and unperforated band or tape to be wrapped over surgical dressings and bandages. Serial No. 621,746, Oct. 14. Class 44.

Associated Merchandising Corporation, The, New York, N. Y. Toilet seats. Serial No. 628,030, Oct. 14. Class 13.

Autotype Company Limited, The, London, England. Unsensitized photographic paper. Serial No. 626,071, Oct. 14. Class 37.

B. V. M. Corporation, Cleveland, Ohio. Vitamin preparations. Serial No. 574,885, Oct. 14. Class 18.

Barry, Donald, Productions, Inc., Los Angeles, Calif. Pamphlets and booklets. Serial No. 617,856, Oct. 14. Class 38.

Barwick, E. T., doing business as E T Barwick Mills, Chamblee, Ga. Cotton carpeting. Serial Nos. 626,777–8, Oct. 14. Class 42.

Barwick, E T, Mills: *See*—
Barwick, E. T.

Beautility Precut Structures Company: *See*—
Williams, James T.

Bebon Corporation, assignee: *See*—
United Hosiery Mills Corporation.

Beltone Hearing Aid Company, Chicago, Ill. Electronic hearing aids and parts thereof. Serial No. 609,585, Oct. 14. Class 44.

Bersworth Chemical Company, Framingham, Mass. Water softening agents. Serial No. 624,386, Oct. 14. Class 52.

Blackhawk Mfg. Co., Milwaukee, Wis. Socket wrenches; box wrenches; open end wrenches, etc. Serial No. 576,511, Oct. 14. Class 23.

Blair, L. W., doing business under the name of Proof of Parentage Association, Pocahontas, Iowa. Registering calves, colts, kids, etc. Serial No. 609,118, Oct. 14. Class 100.

Blanchet, Maurice, Parfums de Luxe Societe Anonyme, Suresnes, France. Perfume, toilet water, eau de cologne, etc. Serial No. 569,720, Oct. 14. Class 51.

Blum, Chase, doing business as Chase Industrial Refrigerator Equipment & Engineering Co., Cincinnati, Ohio. Liquid rubber cement. Serial No. 613,758, Oct. 14. Class 5.

Boston Machine Works Company, Lynn, Mass. Cut and slabbed bricks and stripping. Serial No. 609,024, Oct. 14. Class 12.

Bounce, Inc., Dayton, Ohio. Foot lotion. Serial No. 622,797, Oct. 14. Class 51.

Bourjois, Inc., New York, N. Y. Aromatized sachet packets. Serial No. 609,531, Oct. 14. Class 51.

Braro Products, Chicago, Ill. Nursing aids. Serial No. 625,844, Oct. 14. Class 44.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Antibiotic. Serial Nos. 615,813–14, Oct. 14. Class 18.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Antibiotic derivative. Serial No. 630,472, Oct. 14. Class 18.

Bruning, Charles, Company, Inc., Teterboro, N. J. Photographic materials. Serial No. 626,144, Oct. 14. Class 26.

Bullseye Corporation, The, Woodbridge, Conn. Liquid preparations for combined cleaning and polishing of automobiles and furniture. Serial No. 600,017, Oct. 14. Class 4.

Burlington Mills Corporation, Greensboro, N. C. Men's, women's, and children's hosiery. Serial No. 552,836, Oct. 14. Class 39.

Cadwallader Pacific Company, Los Angeles, Calif. Rattan chairs, sofas, tables, etc. Serial No. 607,791, Oct. 14. Class 32.

Cameo Curtains Inc., New York, N. Y. Window draperies and curtains. Serial No. 627,623, Oct. 14. Class 42.

Camp Thunderbird: *See*—
Camping, Inc.

Campana Corporation, Batavia, Ill. Liquid make-up preparation. Serial No. 613,500, Oct. 14. Class 51.

Camping, Inc., doing business as Camp Thunderbird, St. Louis, Mo. Services in the nature of escorted camping trips. Serial No. 613,116, Oct. 14. Class 100.

Carey, Philip, Manufacturing Company, The, Cincinnati, Ohio. Asphalt impregnated asbestos felt. Serial No. 556,281, Oct. 14. Class 12.

Cascades Plywood Corporation, Portland, Oreg. "Hardboard." Serial No. 623,336, Oct. 14. Class 12.

Casco Products Corporation, Bridgeport, Conn. Electric heating pads for therapeutic use. Serial No. 611,472, Oct. 14. Class 44.

Chair-Loc Company, The: *See*—
Lindenthal, Walter.

Chase Industrial Refrigerator Equipment & Engineering Co.: *See*—
Blum, Chase.

Chemical Research Products, Inc., Seattle, Wash. Activators and conditioners for septic tanks, etc. Serial No. 619,073, Oct. 14. Class 6.

Chicopee Mills, Inc., New York, N. Y. Fabric in the piece. Serial No. 620,801, Oct. 14. Class 42.

Cimarron Lumber and Supply Company, Kansas City, Mo. Asphalt composition roofing and siding. Serial No. 601,023, Oct. 14. Class 12.

City Tool Accessories Corporation, Chicago, Ill. Automobile accessories. Serial No. 613,117, Oct. 14. Class 19.

Claroka Co.: *See*—
Rumfelt, W. M.

Coleman Instruments, Inc., Maywood, Ill. Instruments for performing laboratory titrations. Serial No. 618,532, Oct. 14. Class 26.

Colony Broadcasting Corporation, The, New Haven, Conn. Periodicals. Serial No. 623,238, Oct. 14. Class 38.

Colorcrete Industries, Incorporated, Holland, Mich. Cementitious material. Serial No. 612,589, Oct. 14. Class 12.

Columbus Plastic Products, Inc., Columbus, Ohio. Combination cheese slicers and storage containers, and spoon-type kitchen scoops. Serial No. 602,599, Oct. 14. Class 23.

Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Coated paper. Serial No. 547,617, Oct. 14. Class 37.

Continental Cigar Company, Inc., New York, N. Y. Cigars. Serial No. 626,151, Oct. 14. Class 17.

Continental Copper & Steel Industries, Inc., New York, N. Y. Wire screening. Serial No. 619,449, Oct. 14. Class 13.

Cordo Chemical Corporation, The, Norwalk, Conn. Polyester type, impregnated glass fiber. Serial No. 624,931, Oct. 14. Class 1.

Courtaulds, Limited, London, England. Raw fibrous textile materials. Serial No. 622,069, Oct. 14. Class 1.

Coyne & Delany Co., Brooklyn, N. Y. Flush valves and parts thereof. Serial No. 624,397, Oct. 14. Class 13.

Crown Fabrics Corporation, New York, N. Y. Textile fabrics in the piece. Serial No. 626,863, Oct. 14. Class 42.

Crown Overall Manufacturing Company, The, doing business as Larned, Carter & Company, Cincinnati, Ohio. Overalls and work clothes. Serial No. 588,083, Oct. 14. Class 39.

Cutler-Hammer, Inc., Milwaukee, Wis. Plastic molding compositions in powdered and granular form. Serial No. 604,257, Oct. 14. Class 1.

Del Busto Razon, Sofia, doing business under the name of Laboratorios Busto, Madrid, Spain. Medicine. Serial No. 598,114, Oct. 14. Class 18.

Dick, A. B., Company, Niles, Ill. Materials used in lithographic and planographic printing. Serial No. 605,549, Oct. 14. Class 37.

Dixie Advertisers, Jackson, Miss. Fresh apples. Serial No. 617,651, Oct. 14. Class 46.

Donfield Company, Inc., Syracuse, N. Y. Skin lotion. Serial No. 627,307, Oct. 14. Class 51.

Downey, C. L., Company, The, Hannibal, Mo. Tubular coin wrappers. Serial No. 599,933, Oct. 14. Class 37.

Drew, E. F., & Co., Inc., New York, N. Y. Detergents. Serial No. 601,717, Oct. 14. Class 52.

Drexel Furniture Company, Drexel, N. C. Ash trays. Serial No. 626,314, Oct. 14. Class 8.

Du Bois Company, The, Cincinnati, Ohio. Phosphatizing paint-preparatory wash. Serial No. 614,244, Oct. 14. Class 52.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Adhesives. Serial No. 621,057, Oct. 14. Class 5.

Eaton Laboratories Inc., Norwich, N. Y. Anti-bacterial preparations. Serial No. 621,508, Oct. 14. Class 18.

Egry Register Company, The, Dayton, Ohio. Partially printed forms. Serial No. 596,991, Oct. 14. Class 37.

Ercona Camera Corporation, New York, N. Y. Photographic lenses. Serial No. 626,450, Oct. 14. Class 26.

Exclusive Import Company, Inc., Chicago, Ill. Perfumes, perfume essences, and toilet water. Serial No. 619,613, Oct. 14. Class 51.

Fabrique de Chocolat et de Produits Alimentaires de Villars, Société Anonyme, Fribourg, Switzerland. Candy. Serial No. 622,153, Oct. 14. Class 46.

Fair Tex Mills, Inc., Catasauqua, Pa., and New York, N. Y. Knitted textile fabrics. Serial No. 626,613, Oct. 14. Class 42.

Fansler, Walter A., doing business as sole proprietor under the name and style of Fuller Pharmaceutical Company, Minneapolis, Minn. Disposable cleansing cloths moistened with witch-hazel solution. Serial No. 619,460, Oct. 14. Class 51.

Fansteel Metallurgical Corporation, North Chicago, Ill. Alloys of refractory metals. Serial No. 623,754, Oct. 14. Class 14.

Ferguson, Edgar A., Jr., Brooklyn, N. Y. Medicament. Serial No. 615,633, Oct. 14. Class 18.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals. Serial No. 594,206, Oct. 14. Class 18.

Firmenich, Incorporated: *See*—
Firmenich & Co.

Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals. Serial No. 617,605, Oct. 14. Class 51.

Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals. Serial Nos. 617,611–13, Oct. 14. Class 51.

Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals. Serial No. 617,615, Oct. 14. Class 51.

Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils and aromatic chemicals. Serial No. 617,617, Oct. 14. Class 51.

Flamingo: *See*—
Smith, Matthew.

Fleischmann Handle Company, a Division of The Fleischmann Corporation, Baltimore, Md. Handles for axes, adzes, sledges, etc. Serial No. 604,775, Oct. 14. Class 23.

Flintkote Company, The, New York, N. Y. Rubber additive for asphaltic concrete or for concrete. Serial No. 625,528, Oct. 14. Class 12.

Flintkote Company, The, New York, N. Y. Roofing shingles. Serial No. 626,502, Oct. 14. Class 12.

Flintkote Company, The, New York, N. Y. Asbestos cement shingles. Serial No. 626,504, Oct. 14. Class 12.

Fraternal Order of Police, Philadelphia, Pa. Publication. Serial No. 567,254, Oct. 14. Class 38.

Fuld Brothers, Inc., Baltimore, Md. Detergents and soaps. Serial No. 604,090, Oct. 14. Class 52.

Fuller Pharmaceutical Company: *See*—
Fansler, Walter A.

Gadomski, Zygmunt, Jersey City, N. J. Rubbing alcohol compound. Serial No. 606,781, Oct. 14. Class 18.

Garnich, Emil, Egg Harbor, N. J. Cement building blocks. Serial No. 618,393, Oct. 14. Class 12.

General Box Company, Chicago, Ill. The custom fabrication of containers. Serial No. 603,685, Oct. 14. Class 106.

Gerber, Dr., Albert, Berne, Canton of Berne, Switzerland. Articulators. Serial No. 616,029, Oct. 14. Class 44.

Gerson-Stewart Corporation Company, The, Cleveland, Ohio. Disinfectant. Serial No. 610,014, Oct. 14. Class 6.

Gevaert Photo-Producten N. V., Mortsel, Belgium. Light sensitive photographic material. Serial No. 613,871, Oct. 14. Class 26.

Gevaert Photo-Producten N. V., Mortsel, Belgium. Sensitized photographic material. Serial No. 626,323, Oct. 14. Class 26.

Glida Audrey Products, Inc., New York, N. Y. Cold wave solution. Serial No. 619,326, Oct. 14. Class 51.

Gilmore, C. B., New York, N. Y. Hinge device, for use in loose leaf binders. Serial No. 592,563, Oct. 14. Class 37.

Gliebe Co., The, Brooklyn, N. Y. Fish hook holder and protector. Serial No. 625,559, Oct. 14. Class 22.

Gloeckler, Hugo, New York, N. Y. Fluid filled, plastic, form fitting and light weight container with fluid sealed therein and used as a hot and cold pack for comfort and therapeutic purposes. Serial No. 618,927, Oct. 14. Class 44.

Glove Roofing Products Co., Inc., Whiting, Ind. Shingles and siding. Serial No. 617,365, Oct. 14. Class 12.

Gloversville Knitting Company, Gloversville, N. Y. Knitted coat fabric. Serial No. 627,572, Oct. 14. Class 42.

Goodyear Aircraft Corporation, Wilmington, Del. and Akron, Ohio. Metal clad sandwich core bonded panels. Serial No. 620,598, Oct. 14. Class 12.

Great Lakes Carbon Corporation, New York, N. Y. Expanded and vesiculated volcanic glass. Serial No. 602,506, Oct. 14. Class 12.

Greene, Mort, Enterprises, Inc., Los Angeles, Calif. Combination stopper and liquid pouring device. Serial No. 584,196, Oct. 14. Class 13.

Grove Laboratories, Inc., The, St. Louis, Mo. After shave lotion, a preparation for setting waves, hair tonic, etc. Serial No. 619,829, Oct. 14. Class 51.

Guerlain, Inc., New York, N. Y. Perfumes, and toilet preparations. Serial No. 622,823, Oct. 14. Class 51.

Gulco Chemical Company, Inc., Gulfport, Miss. Preparation for polishing and cleaning automobiles, furniture, etc. Serial No. 609,366, Oct. 14. Class 4.

Hartz Mountain Products, New York, N. Y. Birds. Serial No. 625,800, Oct. 14. Class 1.

Heller, William, Inc., New York, N. Y. Rayon piece goods. Serial No. 625,801, Oct. 14. Class 42.

Hoffman, Martin, Co., Livonia, Mich. Building fronts. Serial No. 606,774, Oct. 14. Class 12.

Independent Lock Company, Fitchburg, Mass. Padlocks and keys therefor. Serial No. 626,293, Oct. 14. Class 25.

International Granite & Marble Corp., New York, N. Y. Quarried granite, marble, onyx, etc. Serial No. 618,168, Oct. 14. Class 12.

International Parts Corp., Chicago, Ill. Mufflers for internal combustion engines and parts thereof. Serial No. 612,399, Oct. 14. Class 23.

Irving-Cloud Publishing Company, The, Chicago, Ill. Periodical publication section. Serial No. 618,432, Oct. 14. Class 38.

Irwin-Willert Company, assignor to Irwin-Willert Company, East St. Louis, Ill. Container for and volatile mothproofing chemical. Serial No. 544,871, Oct. 14. Class 6.

Johnson & Johnson, New Brunswick, N. J. Adhesive tape. Serial No. 625,808, Oct. 14. Class 44.

Juva-Tex, Inc., Chicago, Ill. Cellular rubber cosmetic applicators in the nature of powder puffs. Serial No. 617,665, Oct. 14. Class 29.

Kennedy, David E., Inc., Brooklyn, N. Y., now by change of name Kentile, Inc. Floor and wall tile. Serial No. 589,260, Oct. 14. Class 12.

Kentile, Inc.: *See*—
Kennedy, David E., Inc.

Kentile, Inc., Brooklyn, N. Y. Merchandising display and storage cabinet. Serial No. 619,087, Oct. 14. Class 32.

Keystone Steel and Wire Company, Peoria, Ill. Welded metal mesh fabric. Serial No. 622,261, Oct. 14. Class 13.

Kip, Aldrich & Co., Inc., Mineola, N. Y. Buffered acidic solution, and for a liquid douche. Serial No. 619,204, Oct. 14. Class 18.

Kogap Lumber Industries, Medford, Oreg. Construction lumber and finish lumber. Serial No. 605,660, Oct. 14. Class 12.

Kotake Company, Limited, Honolulu, Hawaii. Incense. Serial No. 610,277, Oct. 14. Class 6.

Laboratorios Busto: *See*—
Del Busto Razon, Sofia.

Lancaster Chemical Corporation, New York, N. Y. Coal tar pitch emulsion used as a protective coating. Serial No. 616,713, Oct. 14. Class 16.

Lanteen Medical Laboratories, Inc., Evanston, Ill. Medicinal tooth powder. Serial No. 610,693, Oct. 14. Class 18.

Larned, Carter & Company: *See*—
Crown Overall Manufacturing Company, The.

Lindenthal, Walter, doing business as The Chair-Loc Company, Lakehurst, N. J. Liquid brush-on dye. Serial No. 619,026, Oct. 14. Class 6.

Lord, Philips H., Inc., New York, N. Y. Entertainment through the medium of an integrated series of dramatic radio programs broadcast. Serial Nos. 608,115–17, Oct. 14. Class 107.

Lorillard, P., Company, New York, N. Y. Cigarettes. Serial No. 617,508, Oct. 14. Class 17.

Loxit Systems, Inc., Chicago, Ill. Metal tubing; metal carpet strips; metal price tag mouldings, etc. Serial No. 585,850, Oct. 14. Class 13.

Macvaugh, Gilbert S., Chevy Chase, Md. Educational board game. Serial No. 623,281, Oct. 14. Class 22.

Magnolia Pharmaceuticals, Inc., Jackson, Miss. Dietary supplement. Serial No. 629,805, Oct. 14. Class 18.

Manning, Maxwell & Moore, Incorporated, New York, N. Y. Valves. Serial No. 621,974, Oct. 14. Class 13.

Manton & Smith Company, Chicago, Ill. Bicycles. Serial No. 616,639, Oct. 14. Class 19.

Marathon Corporation, Rothschild, Wis. Collapsible paper cartons. Serial No. 618,174, Oct. 14. Class 2.

Markwell Manufacturing Co., Inc., New York, N. Y. Staples. Serial No. 628,004, Oct. 14. Class 13.

Marsh Wall Products, Inc., Dover, Ohio, assignor to United States Plywood Corporation, New York, N. Y. Wall panels. Serial No. 619,397, Oct. 14. Class 12.

Maschinenfabrik Heid Aktiengesellschaft, Vienna, Austria. Lathes. Serial No. 603,585, Oct. 14. Class 23.

McNaught Syndicate, Inc., The, New York, N. Y. Daily and Sunday comic strip. Serial No. 626,632, Oct. 14. Class 38.

Meb Export Co. Inc., New York, N. Y. Cotton piece goods. Serial No. 627,634, Oct. 14. Class 42.

Miller, Roe, Dental Laboratory: *See*—
Miller, Roland M.

Miller, Roland M., doing business as Roe Miller Dental Laboratory, Cleveland, Ohio. Dentures, dental plates and bridges. Serial No. 625,990, Oct. 14. Class 44.

Minneapolis Savings and Loan Association, The, Minneapolis, Minn. Making home loans, accepting savings for deposits, etc. Serial No. 608,120, Oct. 14. Class 102.

Monsanto Chemical Company, St. Louis, Mo. Soil additives. Serial No. 624,044, Oct. 14. Class 10.

Monsanto Chemical Company, St. Louis, Mo. Soil additives. Serial No. 624,046, Oct. 14. Class 10.

Monsanto Chemical Company, St. Louis, Mo. Publication. Serial No. 626,103, Oct. 14. Class 38.

Monsanto Chemical Company, St. Louis, Mo. Compounds used as vulcanization accelerators. Serial No. 626,813, Oct. 14. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Compounds for use in rubber. Serial No. 626,814, Oct. 14. Class 6.

Monsanto Chemical Company, St. Louis, Mo. High molecular weight alcohol. Serial No. 626,897, Oct. 14. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Chemicals. Serial No. 626,898, Oct. 14. Class 6.

Montenier, Jules, Inc., Chicago, Ill. Body deodorants. Serial No. 600,966, Oct. 14. Class 51.

Moore, Robert J., Spokane, Wash. Children's books. Serial No. 621,160, Oct. 14. Class 38.

Morgan & Bush, Inc., Bakersfield, Calif. Mixture of mineral for enriching the soil. Serial No. 626,524, Oct. 14. Class 10.

Morse Sewing Machine and Supply Corp., New York, N. Y. Sewing machines. Serial No. 625,992, Oct. 14. Class 23.

NEA Service, Inc., Cleveland, Ohio. Comic strips. Serial No. 622,220, Oct. 14. Class 38.

Natural Foods Institute, Olmsted Falls, Ohio. Food liquifiers. Serial No. 592,093, Oct. 14. Class 21.

Newbro Mfg. Co., Atlanta, Ga. Preparation for conditioning the hair and scalp. Serial No. 620,010, Oct. 14. Class 51.

Normatone Hearing Aid Co., St. Paul, Minn. Hearing aids. Serial No. 620,011, Oct. 14. Class 44.

North American Fibre Products Company, The: *See*—
North American Mogul Products Company, The.

North American Mogul Products Company, The, Cleveland, Ohio, assignee of The North American Fibre Products Company. Water, damp, and leakproof coating of an adhesive cement nature, etc. Serial No. 540,856, Oct. 14. Class 12.

Oconomowoc Canning Company, Oconomowoc, Wis. Canned peas. Serial No. 559,044, Oct. 14. Class 46.

Orkin Exterminating Co., Inc., Atlanta, Ga. Ridding property and structures of termites, pests, etc. Serial No. 621,328, Oct. 14. Class 103.

Osceola Foods, Inc., Osceola, Ark. Oleomargarine. Serial No. 629,036, Oct. 14. Class 46.

Parfums Ciro, Inc., New York, N. Y. Perfume. Serial No. 627,274, Oct. 14. Class 51.

Parke, Davis & Company, Detroit, Mich. Vitamin preparation. Serial No. 630,146, Oct. 14. Class 18.

Patton Manufacturing Company, Decherd, Tenn., now by change of name, N. M. Patton and Company. Men's and women's suits and coats. Serial No. 595,975, Oct. 14. Class 39.

Patton, N. M., and Company: *See*—
Patton Manufacturing Company.

Peck's Products Company, St. Louis, Mo. Liquid detergents, solid detergents, soap bases, etc. Serial No. 619,845, Oct. 14. Class 52.

Petrolite Corporation: *See*—
Petrolite Corporation, Ltd.

Petrolite Corporation, Ltd., doing business under the name of Tret-O-Lite Co. of Calif., St. Louis, Mo., and Los Angeles, Calif., now by change of name Petrolite Corporation. Chemical reagent for cleaning, etc. Serial No. 575,423, Oct. 14. Class 52.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 630,467, Oct. 14. Class 18.

Phillips Petroleum Company, Bartlesville, Okla. Nitrogenous fertilizer. Serial No. 569,474, Oct. 14. Class 10.

Premo Pharmaceutical Labs., Inc., South Hackensack, N. J. Preparation of penicillin G procaine, buffered penicillin G sodium, etc. Serial No. 617,262, Oct. 14. Class 18.

Presstite Engineering Company, The, St. Louis, Mo. Plastic, containing glass fiber reinforcements. Serial No. 625,436, Oct. 14. Class 1.

Proof of Parentage Association: *See*—
Blair, L. W.

Proportioneers, Inc., Providence, R. I. Casings containing filter units. Serial No. 555,078, Oct. 14. Class 31.

Rail Steel Bar Association, Chicago, Ill. Technical and promotional bulletins and literature. Serial No. 610,633, Oct. 14. Class 38.

Rattan Manufacturing Co., The, New Haven, Conn. Solderless electrical wire connectors. Serial No. 623,365, Oct. 14. Class 21.

Reda Pump Company, Bartlesville, Okla. Melting furnaces. Serial No. 628,126, Oct. 14. Class 34.

Rheumatol Company, The: *See*—
Wirth, Barbara.

Rice Barton Corporation, Worcester, Mass. Periodical publication. Serial No. 619,916, Oct. 14. Class 38.

Rumfelt, W. M., doing business as Claroka Co., Claremore, Okla. Plaster or stucco. Serial No. 620,829, Oct. 14. Class 12.

Sales Affiliates, Inc., New York, N. Y. Waving lotion and a neutralizer. Serial No. 616,052, Oct. 14. Class 51.

Samar Cosmetic Co.: *See*—
Samar, George E.

Samar, George E., doing business as Samar Cosmetic Co., Syracuse, N. Y. Cologne, perfume, face powder, etc. Serial No. 615,136, Oct. 14. Class 51.

Samar, George E., doing business as Samar Cosmetic Co., Syracuse, N. Y. Cologne, perfume, face powder, etc. Serial No. 616,132, Oct. 14. Class 51.

Sanders, H. M., Co., Boston, Mass. Heavy hardware, general household hardware, etc. Serial No. 596,952, Oct. 14. Class 13.

Sandusky Foundry & Machine Co., Sandusky, Ohio. Metal rolls for paper-making machinery and miscellaneous metal machinery parts. Serial No. 604,394, Oct. 14. Class 23.

Sandusky Foundry & Machine Co., Sandusky, Ohio. Metal rolls for paper-making machinery and miscellaneous metal machinery parts. Serial No. 604,396, Oct. 14. Class 23.

Scala, John L., doing business as Vail Pharmacal Company, Union, N. J. Ointment. Serial No. 600,148, Oct. 14. Class 18.

Schachet Mercantile Company, Denver, Colo. Herring fillets, smoked salmon, pickled fish, etc. Serial No. 619,475, Oct. 14. Class 46.

Schell Leather Goods Co., Inc., Cincinnati, Ohio. Luggage and carrying cases. Serial No. 628,720, Oct. 14. Class 3.

Sealy, Incorporated, Chicago, Ill. Mattresses and box springs. Serial No. 616,874, Oct. 14. Class 32.

Sears, Roebuck and Co., Chicago, Ill. Hand operated mechanical paint striping tool. Serial No. 561,503, Oct. 14. Class 23.

Sebel, D., and Company, Limited, Erith, Kent, England. Perambulators and push-chairs. Serial No. 619,476, Oct. 14. Class 19.

Seeman Brothers, Inc., New York, N. Y. Solidified air freshening deodorant. Serial No. 626,541, Oct. 14. Class 6.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Medicinal preparation. Serial No. 629,586, Oct. 14. Class 18.

Sier-Bath Gear and Pump Co., Inc., North Bergen, N. J. Gears, worms, wormwheels, etc. Serial No. 627,305, Oct. 14. Class 23.

Singer Manufacturing Company, The, Elizabeth, N. J. Emery cord. Serial No. 630,158, Oct. 14. Class 4.

Smith, Matthew, trading as Flamingo, Kearny, N. J. Plastic patch repair kits. Serial No. 624,163, Oct. 14. Class 5.

Societe Jacques Frederic Fath et Compagne, Paris, France. Perfumes, rice powder and lipsticks. Serial No. 554,728, Oct. 14. Class 51.

South Shore Broadcasting Company, Quincy, Mass. Radio broadcasting. Serial No. 619,040, Oct. 14. Class 104.

Spencer Chemical Company, Kansas City, Mo. Ammonium nitrate fertilizer. Serial No. 628,654, Oct. 14. Class 10.

Sprayed Insulation, Inc., Newark, N. J. Asbestos insulation materials. Serial No. 614,998, Oct. 14. Class 12.

Standard Industrial Products, Inc., Evansville, Ind. Polish. Serial No. 608,896, Oct. 14. Class 4.

Steininger, Harry P., Detroit, Mich. Explosive cartridges. Serial No. 617,822, Oct. 14. Class 9.

Syndicat Francais des Textiles Artificiels, Paris, France. Textile fabrics. Serial No. 605,070, Oct. 14. Class 42.

Terrytoons, Inc., New Rochelle, N. Y. Series of motion picture animated cartoons. Serial No. 611,922, Oct. 14. Class 26.

Topton Rug Manufacturing Co., Topton, Pa. Cotton and rayon braided rugs. Serial No. 626,714, Oct. 14. Class 42.

Tret-O-Lite Co. of Calif.: *See*—
Petrolite Corporation, Ltd.

Union Carbide and Carbon Corporation, New York, N. Y. Metal alloys, metal alloy welding rods, metal alloy hard-facing rods, etc. Serial No. 620,115, Oct. 14. Class 14.

United Hosiery Mills Corporation, assignor to Bebon Corporation, Chattanooga, Tenn. Cotton piece goods. Serial No. 630,814, Oct. 14. Class 42.

United States Plywood Corporation: *See*—
Marsh Wall Products, Inc.

United States Plywood Corporation, New York, N. Y. Plywood. Serial No. 626,648, Oct. 14. Class 12.

United States Tobacco Company, New York, N. Y. Smoking tobaccos. Serial No. 626,842, Oct. 14. Class 17.

Universal Atlas Cement Company, New York, N. Y. Hydraulic cement. Serial No. 627,018–20, Oct. 14. Class 12.

Vail Pharmacal Company: *See*—
Scala, John L.

Vance, Melvin L., assignee: *See*—
Wirth, Barbara.

Van Pels, Max, New York, N. Y. Insecticides. Serial No. 618,473, Oct. 14. Class 6.

Verney Corporation, Manchester, N. H. Piece goods. Serial No. 620,793, Oct. 14. Class 42.

Vineland Laboratories, Inc., Landis Township, Cumberland County, N. J. Rodenticides. Serial No. 626,356, Oct. 14. Class 6.

Vitacreme Products Company, Oakmont, Pa. Skin ointment. Serial No. 616,306, Oct. 14. Class 18.

Vital Products Manufacturing Company, Cleveland, Ohio. Gun-type hand tool. Serial Nos. 626,227–8, Oct. 14. Class 23.

Votana Company, The, Portsmouth, Ohio. Medicinal preparation. Serial No. 606,093, Oct. 14. Class 18.

Wagner, Ivanna, Los Angeles, Calif. Men's, women's, and children's clothing. Serial Nos. 593,148–9. Oct. 14. Class 39.

Wall-Lundberg & Company, Portland, Oreg. Wood base cementitious material. Serial No. 600,160, Oct. 14. Class 12.

Wamsutta Mills, New Bedford, Mass. Bed sheets. Serial No. 618,252, Oct. 14. Class 42.

Wamsutta Mills, New Bedford, Mass. Cotton piece goods. Serial No. 620,181, Oct. 14. Class 42.

Warner, Roscoe W., assignee: *See*—
Wirth, Barbara.

White House Co., Harrison, N. J. Fertilizing and soil conditioning agent. Serial No. 630,642, Oct. 14. Class 10.

Wilkinson-Gresh, Inc., St. Petersburg, Fla. Shelf adapted to be installed above the windshield in the interior of a vehicle. Serial No. 586,609, Oct. 14. Class 19.

Williams, James T., doing business under the fictitious name and style of Beautility Precut Structures Company, Rocklin, Calif. Prefabricated building structures. Serial No. 622,966, Oct. 14. Class 12.

Wilson, Grant, Incorporated, Chicago, Ill. Asbestos woven tape. Serial No. 619,557, Oct. 14. Class 12.

Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Mixture having plant nutritional properties. Serial No. 624,317, Oct. 14. Class 10.

Wirth, Barbara, doing business as The Rheumatol Company, assignor to R. W. Warner, Davenport, Iowa, and M. L. Vance, Mount Vernon, Ind. Pharmaceutical preparation. Serial No. 617,521, Oct. 14. Class 18.

Wright, Norman S., and Company, Limited, Toronto, Ontario, Canada. Plant and vegetable fertilizer. Serial No. 625,179, Oct. 14. Class 10.

Wyeth Incorporated, Philadelphia, Pa. Methyl cellulose granules. Serial No. 619,049, Oct. 14. Class 18.

Wyner, I. A., & Co., Inc., New York, N. Y. Knitted piece goods. Serial No. 624,517, Oct. 14. Class 42.

Yale & Towne Manufacturing Co., The, New York, N. Y. Padlocks. Serial No. 538,221, Oct. 14. Class 25.

LIST OF REGISTRANTS OF TRADE-MARKS

Aberfoyle Manufacturing Company, Philadelphia, Pa. Yarns. 565,369, Oct. 14; Serial No. 623,230, published July 15, 1952. Class 43.

Abos's Mfg. Co., Inc., Mishawaka, Ind. Price evaluating books. 565,433, Oct. 14; Serial No. 624,440. Class 38.

Accurate Parts Manufacturing Company, Cleveland, Ohio. Screws, bolts, nuts, etc. 296,766, renewed Aug. 23, 1952. O. G. Oct. 14. Class 13.

Airosol Company, Inc., Neodesha, Kans. Insecticide. 565,247, Oct. 14; Serial No. 610,815, published July 22, 1952. Class 6.

Aldens, Inc., Chicago, Ill. Shotguns, rifles, cartridges, and shotgun shells. 565,231, Oct. 14; Serial No. 608,485, published June 17, 1952. Class 9.

Alderson Candy Shop: *See*—
Alderson, Rolla.

Alderson, Rolla, doing business as Alderson Candy Shop, Denver, Colo. Candy bars. 565,289, Oct. 14; Serial No. 616,068, published Nov. 20, 1951. Class 46.

Allen, Charles J., Philadelphia, Pa., to C. J. Allen, Moorestown, N. J. Coal-meters. 87,701, re-renewed Aug. 6, 1952. O. G. Oct. 14. Class 26.

Allen Underwear Manufacturing Co., Inc., New York, N. Y. Ladies' underwear. 565,254, Oct. 14; Serial No. 611,749, published Mar. 11, 1952. Class 39.

Allied Laboratories, Inc., Kansas City, Mo. Sedative expectorant. 565,311, Oct. 14; Serial No. 619,783, published June 10, 1952. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Veterinary intravenous anesthetic agent. 565,312, Oct. 14; Serial No. 619,784, published June 10, 1952. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Preparation for the treatment of heart-worms. 565,313, Oct. 14; Serial No. 619,786, published June 10, 1952. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Preparation for the treatment of patients with psychic fatigue, mental depression, etc. 565,314, Oct. 14; Serial No. 619,787, published June 10, 1952. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Preparation indicated for the relief of spasmodic conditions. 565,315, Oct. 14; Serial No. 619,788, published June 10, 1952. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Diphtheria and tetanus toxoids and pertussis vaccine. 565,316, Oct. 14; Serial No. 619,789, published June 10, 1952. Class 18.

Allied Laboratories, Inc., Kansas City, Mo. Veterinary preparation. 565,317–20, Oct. 14; Serial No. 619,790–3, published June 10, 1952. Class 18.

Allied Stores Corporation: *See*—
Hahn Department Stores, Inc.

Alpha Kappa Kappa Fraternity, Columbus, Ohio. Advancement of medical science and establishing and maintaining membership in the organization. 565,395, Oct. 14; Serial No. 590,573, published July 22, 1952. Class 100.

Alpha Omicron Pi, Oxford, Ohio. Establishment and maintenance of membership in a national collegiate sorority. 565,396, Oct. 14; Serial No. 604,134, published July 22, 1952. Class 100.

Amalgamated Leather Companies, Inc., Wilmington, Del., Philadelphia, Pa., New York, N. Y., Boston, Mass., Rochester, N. Y., Chicago, Ill., and St. Louis, Mo., to Amalgamated Leatber Companies, Inc., Wilmington, Del. Kid, glazed kid, and other leathers. 296,417, renewed Aug. 9, 1952. O. G. Oct. 14. Class 1.

American Blouse Co. Inc., New York, N. Y. Girls' blouses. 565,232, Oct. 14; Serial No. 608,528, published July 1, 1952. Class 39.

American Enka Corporation, Enka, N. C. Rayon yarns. 565,161, Oct. 14; Serial No. 531,001, published July 1, 1952. Class 43.

American Sip Corporation: *See*—
Societe Genevoise D'Instruments De Physique.

American Window Glass Company, Pittsburgh, Pa. Laminated glass. 565,266, Oct. 14; Serial No. 614,028, published July 1, 1952. Class 33.

Amulette Company, New York, N. Y. Blouses for women and misses. 565,191, Oct. 14; Serial No. 586,719, published July 1, 1952. Class 39.

Arko Herbs Incorporated, Buffalo, N. Y. Herb teas beneficial for all stomach disorders, etc. 297,927, renewed Oct. 4, 1952. O. G. Oct. 14. Class 18.

Armour and Company, Chicago, Ill. Glue and an adhesive agent. 565,268, Oct. 14; Serial No. 614,122, published July 22, 1952. Class 5.

Asiatic Petroleum Company, Limited, The, London, England, assignor to Shell Oil Company, to Shell Oil Company, New York, N. Y. Dry cleaning solvents. 295,441, renewed July 5, 1952. O. G. Oct. 14. Class 52.

Associated Patent Industries, Chicago, Ill. Miniature bowling game. 444,722, Oct. 14; Serial No. 518,745, published July 22, 1952. Class 22.

Asten-Hill Mfg. Co., Philadelphia, Pa. Felts for paper machinery, felts for fabric processing machinery, etc. 565,169–70, Oct. 14; Serial No. 560,597–8, published June 24, 1952. Class 50.

Atlantic Service Co., Inc., Brooklyn, N. Y. Renting on a contract basis electric meat saws and slicers, etc. 565,388, Oct. 14; Serial No. 578,188, published July 22, 1952. Class 100.

Atlas Plywood Corporation, Boston, Mass. Wooden and paper-board packing and shipping cases. 565,400, Oct. 14; Serial No. 574,808. Class 2.

Atlas Powder Company: *See*—
Waukegan Chemical Company.

Autol Incorporated, New York, N. Y. Lubricating oil and greases. 565,171, Oct. 14; Serial No. 561,287, published Nov. 14, 1950. Class 15.

Autospare Mfg. Corp., Brooklyn, N. Y. Weatherstrip cement. 565,264, Oct. 14; Serial No. 613,864, published July 22, 1952. Class 5.

Avondale Mills, Sylacauga, Ala. Cotton piece goods. 565,339, Oct. 14; Serial No. 621,855, published July 22, 1952. Class 42.

Balfour, Guthrie & Co., Limited, San Francisco, Calif. Firecrackers. 565,328, Oct. 14; Serial No. 620,949, published June 17, 1952. Class 9.

Battle Creek Equipment Company, Battle Creek, Mich. Electrically-heated pads and blankets for therapeutic uses. 565,165, Oct. 14; Serial No. 549,411, published July 22, 1952. Class 44.

Baur, O. P., Confectionery Company, The, Denver, Colo. Candies. 565,401, Oct. 14; Serial No. 576,895. Class 46.

Bear Brand Hosiery Co.: *See*—
Paramount Knitting Company.

Benz, George, Sons, Inc., St. Paul, Minn., by Schenley Distillers, Inc., New York, N. Y. Whiskey. 309,130, Jan. 2, 1934. Republished Oct. 14. Class 49.

Bergen Brush Supplies: *See*—
Kappeler, John D.

Best Foods, Inc., The, New York, N. Y. Salad dressings, mayonnaise, relish sandwich spread, etc. 565,259, Oct. 14; Serial No. 612,583, published July 22, 1952. Class 46.

Bifex Foundations, Inc., New York, N. Y. Brassières. 565,371, Oct. 14; Serial No. 623,298, published July 8, 1952. Class 39.

Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y. Page feature. 565,412, Oct. 14; Serial No. 599,926. Class 38.

Bigelow-Sanford Carpet Company, Inc.: *See*—
Bigelow-Sanford Carpet Co., Inc.

Bing & Bing, Inc., New York, N. Y. Cardboard model furniture cut-outs. 565,255, Oct. 14; Serial No. 612,381, published July 22, 1952. Class 50.

Blakey's Boot Protectors Limited, Leeds, England. Boot protectors, boot studs and boot nails. 297,383, renewed Sept. 13, 1952. O. G. Oct. 14. Class 13.

Blaze, Ben B., doing business under the fictitious name and style of One-Two Sales, San Francisco, Calif. Chlorophyll tablets. 565,229, Oct. 14; Serial No. 607,283, published June 10, 1952. Class 18.

Bloomingdale Bros., Inc., to Federated Department Stores, Inc., New York, N. Y. Spirits of camphor U. S. P., spirits of nitre U. S. P., aromatic spirits of ammonia U. S. P., etc. 298,664, renewed Nov. 1, 1952. O. G. Oct. 14. Class 18.

Booth, Walter, Shoe Co., to Mid-States Shoe Company, Milwaukee, Wis. Boots, shoes, and oxfords. 298,450, renewed Oct. 25, 1952. O. G. Oct. 14. Class 39.

Borden Company, The, New York, N. Y. Cheddar cheese and limburger cheese. 565,340, Oct. 14; Serial No. 621,939, published July 15, 1952. Class 46.

Botany Mills, Inc., Passaic, N. J. Yarns. 565,370, Oct. 14; Serial No. 623,233, published July 1, 1952. Class 43.

Bourjois, Inc., New York, N. Y. Powder puffs. 308,895, Dec. 26, 1933. Republished Oct. 14. Class 29.

Bourjois, Inc., New York, N. Y. Toilet soap. 310,371, Feb. 20, 1934. Republished Oct. 14, 1952. Class 52.

Bourjois, Inc., New York, N. Y. Perfume, eau parfumee and talcum powder. 394,118, Mar. 17, 1942. Republished Oct. 14. Class 51.

Bradson Company, The, North Hollywood, Calif. Garden hose attachment. 565,206, Oct. 14; Serial No. 596,325, published June 24, 1952. Class 23.

Bradstone Rubber Company, doing business under the name of Park Cement & Chemical Co., Woodbine, N. J. Liquid adhesive cement. 565,301, Oct. 14; Serial No. 618,782, published July 22, 1952. Class 5.

Brand & Oppenheimer Incorporated, New York, N. Y. Textile fabrics. 565,341, Oct. 14; Serial No. 621,940, published July 22, 1952. Class 42.

Brann, Donald R., doing business as East-Bild Pattern Company, Pleasantville, N. Y. Pattern books. 565,409, Oct. 14; Serial No. 593,778. Class 38.

British Pens Limited: *See*—
Mitchell, William, (Pens) Limited.

Brothers, M. P., Co., Nashville, Tenn. Canned tomatoes. 565,236, Oct. 14; Serial No. 608,915, published July 8, 1952. Class 46.

Brown, Boveri & Cie., Baden, Switzerland. Steam generators and accessories. 295,063, renewed June 14, 1952. O. G. Oct. 14. Class 34.

Brown, Boveri & Cie., Baden, Switzerland. Heating tubes and tube couplings. 296,959, renewed Aug. 30, 1952. O. G. Oct. 14. Class 13

Brown, Boveri & Cie., Baden, Switzerland. Circulating water pumps, and exhaust gas turbines. 297,356, renewed Sept. 13, 1952. O. G. Oct. 14. Class 23.

Buckeye Steel Castings Company, The, Columbus, Ohio. Railway car trucks and the component parts. 565,354, Oct. 14; Serial No. 622,426, published June 10, 1952. Class 19.

Bullen Chemical Company, The: *See*—
Bullen, Joseph W.

Bullen Chemical Company, Inc., The: *See*—
Bullen, Joseph W.

Bullen, Joseph W., doing business as The Bullen Chemical Company, to The Bullen Chemical Company, Inc., Folcroft, Pa. Cleanser. 296,324, renewed Aug. 2, 1952. O. G. Oct. 14. Class 52.

Bunyan, Paul, Foods, Inc., Seattle, Wash., Minneapolis, Minn., and Omaha, Nebr. Canned vegetables, candy, coffee, etc. 565,195, Oct. 14; Serial No. 588,785, published July 22, 1952. Class 46.

Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. 565,344, Oct. 14; Serial No. 622,065, published July 15, 1952. Class 39.

Calder Manufacturing Company: *See*—
Calder, William H.

Calder, William H., doing business as Calder Manufacturing Company, Lancaster, Pa. Doors. 565,404, Oct. 14; Serial No. 587,988. Class 12.

California Wine Association: *See*—
California Wine Association, The.

California Wine Association, The, to California Wine Association, San Francisco, Calif. Claret-wine. 82,960, re-renewed Aug. 8, 1951. O. G. Oct. 14. Class 47.

Campomat Rubber Co., Inc., The, Brooklyn, N. Y. Rubber mats. 565,307, Oct. 14; Serial No. 619,497, published July 8, 1952. Class 50.

Capper Laboratories, Ontario, Calif. Feed for horses. 565,252, Oct. 14; Serial No. 611,639, published July 22, 1952. Class 46.

Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Combination cleaning and polishing preparation. 565,295, Oct. 14; Serial No. 617,335, published July 22, 1952. Class 4.

Central States Paper & Bag Co., St. Louis, Mo. Bags, merchandise envelopes, boxes, etc. 565,309, Oct. 14; Serial No. 619,601, published July 22, 1952. Class 2.

Chapin & Gore, Inc., Chicago, Ill., by Schenley Distillers, Inc., New York, N. Y. Whiskey. 343,385, Feb. 16, 1937. Republished Oct. 14. Class 49.

Chattanooga Medicine Company, The, Chattanooga, Tenn. Dusting antiseptic powder and a laxative medicine. 294,028, May 17, 1932. Republished Oct. 14. Class 18.

Chemical Concentrates, Inc., New York, N. Y. Dry powdered preparations or concentrated liquids, jellies, pastes, and powders which upon mixing with water or a liquid organic solvent will form face creams, etc. 565,216, Oct. 14; Serial No. 602,248, published July 22, 1952. Class 51.

Chemical Corporation, The, Springfield, Mass. Disinfectant and household and industrial germicidal material. 565,278, Oct. 14; Serial No. 615,049, published July 22, 1952. Class 6.

Chicago Roller Skate Company, Chicago, Ill. Roller skates. 565,179, Oct. 14; Serial No. 572,162, published July 22, 1952. Class 22.

Chicopee Mills, Inc., New York, N. Y. Cotton fabric in the piece. 565,327, Oct. 14; Serial No. 620,800, published July 22, 1952. Class 42.

Choshi Shoyu Kabushiki Kaisha: *See*—
Tanaka, Genba.

Churchey Products Company: *See*—
Churchey, Theodore.

Churchey, Theodore, doing business as Churchey Products Company, Brockton, Mass. Wax-containing liquid cleaner, etc. 565,175, Oct. 14; Serial No. 568,426, published Oct. 9, 1951. Class 4.

Clairol Incorporated, Stamford, Conn. Hair tinting and coloring preparations. 565,410, Oct. 14; Serial No. 597,813. Class 51.

Clemson Bros. Inc., Middletown, N. Y. Saws and saw blades. 296,680, renewed Aug. 16, 1952. O. G. Oct. 14. Class 23.

Clinton Foods Inc., Clinton, Iowa. Salad oil. 565,217, Oct. 14; Serial No. 602,437, published July 22, 1952. Class 46.

Clover Farm Stores: *See*—
Grocers & Producers Co., The.

Clover Farm Stores Corporation: *See*—
Grocers & Producers Co., The.

Coblentz Bag Co., Inc., New York, N. Y. Ladies' handbags. 371,303, Sept. 19, 1939. Republished Oct. 14. Class 3.

Collins & Aikman Corporation, New York, N. Y. Upholstery fabrics. 565,368, Oct. 14; Serial No. 623,185, published July 22, 1952. Class 42.

Columbia Broadcasting System, Inc., New York, N. Y. Radio program broadcasting services. 565,434, Oct. 14; Serial No. 545,082. Class 104.

Columbia River Packers Association, Inc., Astoria, Oreg. Canned salmon. 565,234, Oct. 14; Serial No. 608,785, published Feb. 5, 1952. Class 46.

Columbia River Packers Association, Inc., Astoria, Oreg. Canned salmon. 565,250, Oct. 14; Serial No. 611,408, published Feb. 12, 1952. Class 46.

Conkey, G. E., Co., Cleveland, Ohio, now by change of name Wirthmore Feed Co., assignee of The G. E. Conkey Company. Livestock feed. 565,164, Oct. 14; Serial No. 545,826, published July 22, 1952. Class 46.

Conkey, G. E., Company, The: *See*—
Conkey, G. E., Co.

Conn, C. G., Ltd., Elkhart, Ind. Key pads for woodwind musical instruments. 565,361, Oct. 14; Serial No. 622,768, published July 8, 1952. Class 36.

Consumers. Cooperative Association, Kansas City, Mo. Canned vegetables. 565,398, Oct. 14; Serial No. 567,390. Class 46.

Cooper's, Incorporated, Kenosha, Wis. Men's and boys' underwear. 565,351, Oct. 14; Serial No. 622,380, published July 15, 1952. Class 39.

Cordeleria Santa Ines, S. A., Merida, Mexico. Rope, binder, baler, and wrapping string. 565,372, Oct. 14; Serial No. 623,403, published July 15, 1952. Class 7.

Craddock-Terry Co., to Craddock-Terry Shoe Corporation, Lynchburg, Va. Shoes. 298,459, renewed Oct. 25, 1952. O. G. Oct. 14. Class 39.

Craddock-Terry Shoe Corporation: *See*—
Craddock-Terry Co.

Creco Company, Inc., Long Island City, N. Y. Liquid soap. 296,765, renewed Aug. 23, 1952. O. G. Oct. 14. Class 52.

Creco Company, Inc., Long Island City, N. Y. Floor scrubbing soap. 297,154, renewed Sept. 6, 1952. O. G. Oct. 14. Class 52.

Crown Zellerbach Corporation, San Francisco, Calif. Dried solids of ammonia base waste sulfite liquor, for use as a fertilizer and soil conditioner. 565,362, Oct. 14; Serial No. 622,809, published July 1, 1952. Class 10.

Cycling Press, Inc., New York, N. Y. Section in a periodical. 565,403, Oct. 14; Serial No. 586,625. Class 38.

Dairy Belle Foods, Inc., Chicago, Ill. Spray-process nonfat dry milk solids, roller process nonfat dry milk solids, and spray whole milk powder. 565,183, Oct. 14; Serial No. 578,574, published June 24, 1952. Class 46.

Dairy Products Company, Inc., Birmingham, Ala. Skimmed milk powder. 565,224, Oct. 14; Serial No. 606,368, published July 22, 1952. Class 46.

Dentists' Supply Company of New York, The, New York, N. Y. Artificial teeth, dental wax, dental foil, etc. 565,182, Oct. 14; Serial No. 576,315, published July 22, 1952. Class 44.

Diplomat Products, Inc., New York, N. Y., to Diplomat Products, Inc., North Bergen, N. J. Chicken cream of potato soup, old fashioned chicken fricassee, etc. 295,004, renewed June 14, 1952. O. G. Oct. 14. Class 46.

Diplomat Products, Inc., New York, N. Y., to Diplomat Products, Inc., North Bergen, N. J. Chicken cream of potato soup, old fashioned chicken fricassee, etc. 295,068, renewed June 14, 1952. O. G. Oct. 14. Class 46.

Donnell & Mudge, Inc., Salem, Mass. Whole sheep and lambskin linings. 565,222, Oct. 14; Serial No. 605,649, published July 22, 1952. Class 1.

Donovan Enterprises, Saugatuck, Conn. Bibs. 565,347, Oct. 14; Serial No. 622,147, published July 15, 1952. Class 39.

Donovan Enterprises, Saugatuck, Conn. Bibs. 565,348, Oct. 14; Serial No. 622,149, published July 15, 1952. Class 39.

Dougherty, C. A., Cordage Mill, Los Dos Caminos, Estado Miranda, Venezuela. Rope and twine. 565,262, Oct. 14; Serial No. 613,631, published July 15, 1952. Class 7.

Dow Chemical Company, The, Midland, Mich. Liquid fertilizer. 565,367, Oct. 14; Serial No. 623,047, published July 8, 1952. Class 10.

Downing Taylor Company, Springfield, Mass. Goods in cans, bottles, jars, and packages. 565,209, Oct. 14; Serial No. 598,166, published July 8, 1952. Class 46.

Downing Taylor Company, Springfield, Mass. Goods in cans, bottles, and jars. 565,210, Oct. 14; Serial No. 598,167, published July 15, 1952. Class 46.

Dresser Industries, Inc., Dallas, Tex. Bonding kits comprising preformed bonds, welders, flint guns, etc. 565,251, Oct. 14; Serial No. 611,506, published July 22, 1952. Class 50.

Duplan Corporation, The, New York, N. Y. Fabrics. 565,334, Oct. 14; Serial No. 621,507, published July 22, 1952. Class 42.

Dy-Co Mills, Inc., Norwood, N. J. Knitted and woven fabrics. 565,321–2, Oct. 14; Serial Nos. 620,148–9, published July 22, 1952. Class 42.

Easi-Bild Pattern Company: *See*—
Brann, Donald R.

Eastern Shore Canning Co., Inc., Machipongo, Va. Canned vegetables. 565,397, Oct. 14; Serial No. 567,339. Class 46.

Eddy Bakeries, Inc., Helena, Mont. Bread. 565,177, Oct. 14; Serial No. 570,813, published July 22, 1952. Class 46.

Ellena Brothers, Etiwanda, Calif. Wines. 565,429, Oct. 14; Serial No. 618,569. Class 47.

Ely & Walker Dry Goods Company, St. Louis, Mo. Ladies' and misses,' and children's gloves, and hosiery. 565,167, Oct. 14; Serial No. 553,353, published Oct. 31, 1950. Class 39.

Emery Industries, Inc., Cincinnati, Ohio. Detergent and dry cleaning compound. 565,287, Oct. 14; Serial No. 615,922, published July 22, 1952. Class 52.

Empire Chemical Company, Inc., Houston, Tex. Liquid metal cleaner. 565,349, Oct. 14; Serial No. 622,208, published July 22, 1952. Class 52.

Even-Pul Foundations, Inc., New York, N. Y. Brassières, girdles, corselets, and foundation garments. 565,377, Oct. 14; Serial No. 623,794, published July 15, 1952. Class 39.

Ezee Flow Corporation, Chicago, Ill. Depth placement fertilizer and seeder machines. 565,256, Oct. 14; Serial No. 612,492, published June 24, 1952. Class 23.

Fairbanks, Jerry, Inc., Hollywood, Calif. Recording sound in synchronism with the photographing of motion pictures. 565,390, Oct. 14; Serial No. 595,832, published July 22, 1952. Class 107.

Fairchild Publications, Inc., New York, N. Y. Newspaper column or columns. 565,432, Oct. 14; Serial No. 622,108. Class 38.

Fairfield Glove Co., Fairfield, Iowa. Gloves. 565,192, Oct. 14; Serial No. 587,865, published July 1, 1952. Class 39.

Famous Bathrobe Co., Inc., New York, N. Y. Children's playsuits and pajamas. 565,356, Oct. 14; Serial No. 622,530, published July 15, 1952. Class 39.

Federated Department Stores, Inc.: *See*—
Bloomingdale Bros., Inc.

Ferncliff Feed & Grain Co., Louisville, Ky. Feeds. 565,189, Oct. 14; Serial No. 584,487, published Dec. 25, 1951. Class 46.

Filler Products, Inc., Atlanta, Ga. Corn chips. 565,242, Oct. 14; Serial No. 610,317, published July 22, 1952. Class 46.

Finger Lakes Chemical Company, Inc., Etna, N. Y. Detergents. 565,376, Oct. 14; Serial No. 623,756, published July 22, 1952. Class 52.

Fisherman Press, Inc., Oxford, Ohio, by change of name from Midwest Fisherman, Inc. Periodical publication. 565,414, Oct. 14; Serial No. 603,491. Class 38.

Florez, Incorporated, Detroit, Mich. Mounting paper. 565,402, Oct. 14; Serial No. 579,313. Class 37.

Fort Schuyler Knitting Company, Utica, N. Y. Women's underwear. 565,235, Oct. 14; Serial No. 608,866, published July 22, 1952. Class 89.

"400" Records, Inc., New York, N. Y. Grooved phonograph records. 565,330, Oct. 14; Serial No. 621,059, published July 8, 1952. Class 36.

Free Sewing Machine Co.: *See*—
Illinois Sewing Machine Company.

Gaseteria Incorporated, to Gaseteria Incorporated, Indianapolis, Ind. Lubricating oils. 296,953, renewed Aug. 30, 1952. O. G. Oct. 14. Class 15.

Gaylord Container Corporation: *See*—
St. Louis Basket & Box Corporation.

Gebr. de Trey, Aktiengesellschaft, Zurich, Switzerland. Acrylic resin for dental uses. 565,303, Oct. 14; Serial No. 619,013, published July 22, 1952. Class 44.

Gebruder Junghans Aktiegesellschaft: *See*—
Vereinigte Uhrenfabriken von Gebruder Junghans und Thomas Haller A.-G.

General Floral Products Co., Inc., Winchester, Mass. Preparation for vitalizing and preserving the life of cut flowers. 565,385, Oct. 14; Serial No. 626,160, published July 15, 1952. Class 10.

General Motors Corporation: *See*—
Olds Motor Works.

General Tire & Rubber Company, The, Akron, Ohio. Aerial practice bombs. 565,281, Oct. 14; Serial No. 615,382, published June 24, 1952. Class 9.

Gilman, J. P., Granite Company, Kansas City, Kans. Rough and unfinished granite. 565,200, Oct. 14; Serial No. 591,479, published July 15, 1952. Class 1.

Gleize-Rambal, Louis, Marseille, France. Radioscopes, radiographs, and X-ray units. 565,162, Oct. 14; Serial No. 533,804, published July 22, 1952. Class 44.

Globe-Union Inc.: *See*—
Howard Manufacturing Corporation.

Golding Bros. Company, Inc., New York, N. Y. Plastic coated sheets. 565,186, Oct. 14; Serial No. 580,058, published Apr. 22, 1952. Class 50.

Goodrich, B. F., Company, The, New York, N. Y., to The B. F. Goodrich Company, Akron, Ohio. Rubber vehicle tires. 294,731, renewed June 7, 1952. O. G. Oct. 14. Class 35.

Goodrich, B. F., Company, The, New York, N. Y., and Akron, Ohio. Outboard motors. 565,257, Oct. 14; Serial No. 612,538, published June 24, 1952. Class 23.

Gordon, Graham M., assignor to Viber Company, Limited, Los Angeles, to Viber Company, Burbank, Calif. Machinery. 297,997, renewed Oct. 11, 1952. O. G. Oct. 14. Class 23.

Gotham Hosiery Company, Inc., New York, N. Y. Women's and girls' hosiery, underwear, and gloves. 565,240, Oct. 14; Serial No. 609,406, published July 15, 1952. Class 39.

Graded Egg Co.: *See*—
Marriott, Roy G.

Gray, Frank A., Kansas City, Mo., to York Drug Company, Inc., New York, N. Y. Hair remedies. 89,250, re-renewed Dec. 3, 1952. O. G. Oct. 14. Class 18.

Greenwell, Gean, New York, N. Y. Vocal and instrumental musical entertainment services. 565,394, Oct. 14; Serial No. 608,161, published July 22, 1952. Class 107.

Grey Hosiery Mills, also doing business as Mary Grey Hosiery Mills, Bristol, Va. Hosiery. 565,273–4, Oct. 14; Serial Nos. 614,625–6, published July 15, 1952. Class 39.

Grey, Mary, Hosiery Mills: *See*—
Grey Hosiery Mills.

Grocers & Producers Co., The, doing business as Clover Farm Stores, to Clover Farm Stores Corporation, Cleveland, Ohio. Prepared cocoanut, cake flour, pancake flour, etc. 294,723, renewed June 7, 1952. O. G. Oct. 14. Class 46.

Groves Thread Company, Inc., Gastonia, N. C. Cotton thread and yarns. 298,564, renewed Nov. 1, 1952. O. G. Oct. 14. Class 43.

Hahn Department Stores, Inc., Wilmington, Del., by Allied Stores Corporation, New York, N. Y. Electric laundry washing machines. 290,809, Jan. 19, 1932. Republished Oct. 14. Class 24.

Hanson-Van Winkle-Munning Company, Matawan, N. J. Chemical composition. 565,375, Oct. 14; Serial No. 623,654, published July 22, 1952. Class 6.

Harding, Milo, Company: *See*—
Harding, Milo, Company, Ltd.

Harding, Milo, Company, Ltd., to Milo Harding Company, Los Angeles, Calif. Stencils. 293,678, renewed May 3, 1952. O. G. Oct. 14. Class 37.

Har-Ken Products, Inc., Chicago, Ill. Combination baby stroller, rocker, sled, and walker. 565,180, Oct. 14; Serial No. 575,908, published June 10, 1952. Class 19.

Herrman-McLean Company, The, Cleveland, Ohio. Table cora meal and all kinds of grain feed for live stock and poultry feed, and dog food. 565,199, Oct. 14; Serial No. 590,979, published July 15, 1952. Class 46.

Hershel California Fruit Products Co., San Jose, Calif. Canned food products. 565,166, Oct. 14; Serial No. 549,929, published July 15, 1952. Class 46.

Hershey Chocolate Corporation, Hershey, Pa. Cocoa. 565,380, Oct. 14; Serial No. 624,336, published July 15, 1952. Class 46.

Hicoria Hickory Company: *See*—
Jolliffe, Glenn A.

High Standard Manufacturing Corporation, The, Hamden, Conn. Pistols and parts therefor. 565,238, Oct. 14; Serial No. 609,177, published July 8, 1952. Class 9.

Hockmeyer Bros., Inc., to Hockmeyer Bros., Inc., New York, N. Y. Cotton piece goods. 290,959, renewed Jan. 19, 1952. O. G. Oct. 14. Class 42.

Howard Manufacturing Corporation, Council Bluffs, Iowa, by Globe-Union Inc., Milwaukee, Wis. Skate wheels. 426,674, Jan. 7, 1947. Republished Oct. 14. Class 22.

Howard Manufacturing Corporation, Council Bluffs, Iowa, by Globe-Union Inc., Milwaukee, Wis. Skate wheels. 427,960, Mar. 4, 1947. Republished Oct. 14. Class 22.

Howard Manufacturing Corporation, Council Bluffs, Iowa, by Globe-Union Inc., Milwaukee, Wis. Skate wheels. 429,822, May 20, 1947. Republished Oct. 14. Class 22.

Hungerford Plastics Corporation, New Providence, N. J. Hand grips for manually operated handles. 565,193, Oct. 14; Serial No. 588,094, published July 15, 1952. Class 50.

Hunter Douglas Corporation, New York, N. Y. Wall tiles. 565,194, Oct. 14; Serial No. 588,095, published Jan. 2, 1951. Class 12.

Hunter Douglas Corporation, New York, N. Y. Metal stock. 565,283, Oct. 14; Serial No. 615,605, published May 27, 1952. Class 14.

Huttig Sash & Door Co., St. Louis, Mo. Window units. 565,213, Oct. 14; Serial No. 601,358, published July 22, 1952. Class 12.

Illinois Sewing Machine Company, Chicago, to Free Sewing Machine Co., Rockford, Ill. Sewing-machines. 36,950, re-renewed Aug. 20, 1951. O. G. Oct. 14. Class 23.

Imperial Chemical Industries Limited, London and Millbank, London, England. Explosive fuses. 565,298, Oct. 14; Serial No. 617,963, published June 17, 1952. Class 9.

Independent Leather Manufacturing Co., Inc., Gloversville, N. Y. Waterproof and treated leather. 565,331, Oct. 14; Serial No. 621,104, published July 22, 1952. Class 1.

Industrial Engineering Works, Trenton, N. J. Metal windows. 565,207, Oct. 14; Serial No. 596,923, published July 22, 1952. Class 12.

International Minerals & Chemical Corporation, Chicago, Ill. Salt substitute used for food purposes. 565,265, Oct. 14; Serial No. 613,993, published July 15, 1952. Class 46.

Isbell, Vernon, Fort Worth, Tex. Cutting of women's hair. 565,436, Oct. 14; Serial No. 580,788. Class 100.

Johns-Manville Corporation: *See*—
Johns-Manville, H. W., Company.

Johns-Manville, H. W., Company, by Johns-Manville Corporation, New York, N. Y. Fireproof cements. 38,208, Apr. 29, 1902. Republished Oct. 14. Class 12.

Johnston, Robert A., Company, Milwaukee, Wis. Cookies. 565,288, Oct. 14; Serial No. 615,981, published July 22, 1952. Class 46.

Jolliffe, Glenn A., doing business as Hicoria Hickory Company, Knob Fork, W. Va. Discs of hickory wood in its natural state. 565,345, Oct. 14; Serial No. 622,076, published July 22, 1952. Class 1.

Jordan Marsh Company, Boston, Mass. Hair nets. 565,373, Oct. 14; Serial No. 623,418, published July 8, 1952. Class 39.

Kappeler, John D., trading as Bergen Brush Supplies, Lyndhurst, N. J. Artists' brushes, soft hair brushes, paint brushes. 565,290, Oct. 14; Serial No. 616,636, published July 22, 1952. Class 29.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., by The May Department Stores Company, St. Louis, Mo. Razor blades. 292,431, Mar. 15, 1932. Republished Oct. 14. Class 23.

Kayser, Julius, & Co., New York, N. Y. Hosiery. 565 342–3, Oct. 14; Serial Nos. 621,969–70, published July 15, 1952. Class 39.

Kende Sales Corp., New York, N. Y. Musical singing bird boxes, musical singing bird cages, and musical whistling figures. 565,386, Oct. 14; Serial No. 627,420, published July 22, 1952. Class 36.

Keystone Driller Company, Beaver Falls, Pa. Power percussion well-drilling machines and cable well-drilling machines, steam-engines, etc. 88,893, re-renewed Oct. 29, 1952. O. G. Oct. 14. Class 23.

Kingsland Saw Works, Inc., Kingsland, Ga. Saws. 565,198, Oct. 14; Serial No. 590,315, published June 24, 1952. Class 23.

Kleinert, I. B., Rubber Company, New York, N. Y. Shower curtains and window drapes and waterproofed fabrics in the piece. 321,826, Feb. 19, 1935. Republished Oct. 14. Class 42.

Kluyskens, Gerard J., New York, N. Y. Woven rugs. 565,304, Oct. 14; Serial No. 619,299, published July 22, 1952. Class 42.

Knighton Franchise Distributing Company, Birmingham, Ala. Concrete blocks. 565,407, Oct. 14; Serial No. 589,096. Class 12.

Laitner Brush Company, Detroit, Mich. Fountain brush. 565,428, Oct. 14; Serial No. 618,358. Class 29.

Landau, Sam, New York, N. Y. Ladies' and misses' slips, negligees, negligee ensembles, etc. 565,374, Oct. 14; Serial No. 623,421, published July 8, 1952. Class 39.

Lee Fabric Corporation, Cleveland, Ohio. Matellasse fabric. 565,269, Oct. 14; Serial No. 614,209, published July 22, 1952. Class 42.

Lehon Company, The, Chicago, Ill. Aprons, overall coats, overall pants, etc. 444,723, Oct. 14; Serial No. 520,742, published July 8, 1952. Class 39.

Lelong, Lucien, Inc., Chicago, Ill. Talcum powder colognes, and lipsticks. 565,185, Oct. 14; Serial No. 579,281, published Aug. 5, 1952. Class 51.

Lerch, Benjamin F., New York, N. Y. Tea. 565,226, Oct. 14; Serial No. 606,923, published July 22, 1952. Class 46.

Lerner, Joseph, & Son, Inc., Brooklyn N. Y. Hollow ware. 565,416, Oct. 14; Serial No. 604,974. Class 28.

Levin Bros. Paper Co., Chicago, Ill. Gummed paper tape. 565,277, Oct. 14; Serial No. 614,882, published July 15, 1952. Class 5.

Lexington Manufacturing Company: *See*—
Wachusett Shirt Company.

Link-Belt Speeder Corporation, Cedar Rapids, Iowa. Variable pressure hydraulic systems. 565,211, Oct. 14; Serial No. 599,880, published Mar. 18, 1952. Class 23.

Lisa's Food Product Company, Hollywood, Fla. Salad dressing. 565,352, Oct. 14; Serial No. 622,393, published July 22, 1952. Class 46.

Little Fashion Togs, New York, N. Y. Children's dresses, boys' suits, and play clothes. 565,272, Oct. 14; Serial No. 614,351, published July 1, 1952. Class 39.

Lowe, Joe, Corporation New York, N. Y. Frozen confections-on-sticks, liquid syrups and dry powdered concentrates. 565,421, Oct. 14; Serial No. 612,659. Class 46.

Lubricating Gasoline Co.: *See*—
Thaison, Fred W.

M & C Foods, Inc., Chicago, Ill. Ravioli, grated cheese, prepared spaghetti, etc. 565,300, Oct. 14; Serial No. 618,459, published July 22, 1952. Class 46.

Manhattan Drug Company, Brooklyn, N. Y. Anesthetic and antiseptic salve. 565,417, Oct. 14; Serial No. 605,103. Class 18.

Manhattan Drug Company, Brooklyn, N. Y. Sedative tablets. 565,418, Oct. 14; Serial No. 605,104. Class 18.

Manheimer Watch Company, Chicago, Ill., to Waltham Watch Company, Waltham, Mass. Watches, watch cases, and watch movements. 288,983, renewed Nov. 10, 1951. O. G. Oct. 14. Class 27.

Markell, Maurice J., Brooklyn, N. Y. Men's, women's, and children's shoes. 299,424, renewed Dec. 6, 1952. O. G. Oct. 14. Class 39.

Marriott, Roy G., doing business under the trade name Graded Egg Co., Perry, Okla. Fresh eggs. 565,326, Oct. 14; Serial No. 620,518, published June 17, 1952. Class 46.

Mars, Incorporated, to Mars Incorporated, Chicago, Ill. Whole eggs. 298,137, renewed Oct. 11, 1952. O. G. Oct. 14. Class 46.

Mars, Incorporated, to Mars, Incorporated, Chicago, Ill. Egg whites. 298,138, renewed Oct. 11, 1952. O. G. Oct. 14. Class 46.

Mars, Incorporated, to Mars, Incorporated, Chicago, Ill. Egg yolks. 298,139, renewed Oct. 11, 1952. O. G. Oct. 14. Class 46.

Martini & Rossi Corporation: *See*—
Martini & Rossi S. A.

Martini & Rossi S. A., Turin, Italy, to Martini & Rossi Corporation, New York, N. Y. Vermouth, cocktails, liquors, etc. 299,161, renewed Nov. 22, 1952. O. G. Oct. 14. Class 49.

Marvel Industries, Inc., Skokie, Ill. Materials handling trucks. 565,258, Oct. 14; Serial No. 612,551, published June 10, 1952. Class 19.

May Department Stores Company, The: *See*—
Kaufmann Department Stores, Inc.

McCallum, D. & J., Limited: *See*—
McCallum, D. & J., Ltd.

McCallum, D. & J., Ltd., to D. & J. McCallum Limited, Edinburgh, Scotland. Scotch whisky. 298,322, renewed Oct. 25, 1952. O. G. Oct. 14. Class 49.

McCann, E. S., and Son, Inc., assignor to McCann-Roy, Inc., New York, N. Y. Chemically treated saturated saw dust contained in tin cans used to dry clean and wash carpets, etc. 565,270, Oct. 14; Serial No. 614,307, published July 22, 1952. Class 52.

McCann-Roy, Inc., assignee: *See*—
McCann, E. S., and Son, Inc.

McComb Manufacturing Company, McComb, Miss. Knitting yarn. 565,291, Oct. 14; Serial No. 616,959, published July 1, 1952. Class 43.

McDonnell Aircraft Corporation, Lambert Field, Mo. Airplanes. 565,359, Oct. 14; Serial No. 622,668, published June 3, 1952. Class 19.

Mead, Fred J.: *See*—
Mead-Suydam Company.

Mead-Suydam Company, to F. J. Mead, Orange, N. J. Burial vault. 294,273, renewed May 24, 1952. O. G. Oct. 14. Class 2.

Meltzer, Henry, doing business under the name of Popcorn Service Company, New York, N. Y. Snack crackers. 565,163, Oct. 14; Serial No. 544,748, published July 15, 1952. Class 46.

Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Women's, men's, and children's hats and hat bodies. 565,174, Oct. 14; Serial No. 564,730, published July 15, 1952. Class 39.

Meyercord Co., The, Chicago, Ill. Decalcomanias. 565,411, Oct. 14; Serial No. 598,196. Class 38.

Miami Margarine Company, The, Cincinnati, Ohio. Margarine type shortening. 565,271, Oct. 14; Serial No. 614,309, published July 1, 1952. Class 46.

Mid-States Shoe Company: *See*—
Booth, Walter, Shoe Co.

Midwest Fisherman, Inc.: *See*—
Fisherman Press, Inc.

Miles, Dora, Company, The, Branford, Conn. Corsets, brassières and foundation garments. 565,310, Oct. 14; Serial No. 619,706, published July 22, 1952. Class 39.

Milk Producers Marketing Company, Kansas City, Kans. Dairy products. 565,208, Oct. 14; Serial No. 597,772, published July 22, 1952. Class 46.

Minnesota and Ontario Paper Company, Minneapolis, Minn. Surface coated fiber composition board and fiberboard tile for interior use. 565,408, Oct. 14; Serial No. 591,944. Class 12.

Mira-Flex Watchband Corporation, New York, N. Y. Wrist watch bracelets. 565,297, Oct. 14; Serial No. 617,883, published June 24, 1952. Class 28.

Miron Mills, Inc., Clinton, Mass. Woolen piece goods. 565,384, Oct. 14; Serial No. 626,099, published July 22, 1952. Class 42.

Mitchell, William, (Pens) Limited, to British Pens Limited, Birmingham, England. Steel and metallic pens. 87,787, re-renewed Aug. 6, 1952. O. G. Oct. 14. Class 37.

Monsanto Chemical Company, St. Louis, Mo. Adhesive cements. 565,305–6, Oct. 14; Serial Nos. 619,467–8, published July 22, 1952. Class 5.

Monsanto Chemical Company, St. Louis, Mo. Synthetic polyelectrolyte soil conditioning agent. 565,355, Oct. 14; Serial No. 622,449, published July 1, 1952. Class 10.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resinous polyelectrolyte soil conditioning agent. 565,365–6, Oct. 14; Serial Nos. 623,002–3, published July 1, 1952. Class 10.

Monsanto Chemical Company, St. Louis, Mo. Fertilizers. 565,379, Oct. 14; Serial No. 624,043, published July 1, 1952. Class 10.

Monsanto Chemical Company, St. Louis, Mo. Soil conditioning agents. 565,387, Oct. 14; Serial No. 627,520, published July 22, 1952. Class 10.

Montenier, Jules, Chicago, Ill. Cosmetic preparations. 565,350, Oct. 14; Serial No. 622,267, published July 22, 1952. Class 51.

Montenier, Jules, Inc., Chicago, Ill. Body antiperspirant and deodorant preparations. 565,399, Oct. 14; Serial No. 569,086. Class 51.

Montres Delbana S. a. r. L., Granges, Switzerland. Watches and chronographs. 565,168, Oct. 14; Serial No. 557,865, published July 1, 1952. Class 27.

Moseslan, Paul A., & Sons, Inc., Fresno, Calif. Fresh grapes, fresh deciduous fruits, fresh citrus fruits, etc. 355,192, Mar. 8, 1938. Corrected. O. G. Oct. 14. Class 46.

Mosesian, Paul A., & Sons, Inc., Fresno, Calif. Fresh grapes, deciduous fruits, fresh vegetables, etc. 392,192. Dec. 16, 1941. Corrected. O. G. Oct. 14. Class 46.

Mother's Food Products, Inc., Newark, N. J. Fishballs. 565,172, Oct. 14; Serial No. 562,270, published July 15, 1952. Class 46.

Moulton, Lee L., Minneapolis, Minn. Product for use as a poultry stuffing and meat dressing. 565,280, Oct. 14; Serial No. 615,186, published July 15, 1952. Class 46.

Musser, Hilda M., Union Dale, Pa. Toilet lotions. 565,346, Oct. 14; Serial No. 622,087, published July 22, 1952. Class 51.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 86,926, re-renewed June 11, 1952. O. G. Oct. 14. Class 46.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 86,929, re-renewed June 11, 1952. O. G. Oct. 14. Class 46.

Netherland American Trading Corporation, New York, N. Y. Cooked ham. 565,419, Oct. 14; Serial No. 605,326. Class 46.

Norman Aluminum Window Co. Inc., Jamaica, N. Y. Windows and doors. 565,413, Oct. 14; Serial No. 600,140. Class 12.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Dynamite, gunpowder, blasting-powder, etc. 565,173, Oct. 14; Serial No. 564,206, published July 1, 1952. Class 9.

NuTone, Inc., Cincinnati, Ohio. Electrically illuminated push buttons. 565,426, Oct. 14; Serial No. 617,051. Class 21.

O P W Corporation, assignee: *See*—
Ohio Pattern Works & Foundry Co., The.

Ohio Pattern Works & Foundry Co., The, assignor to O P W Corporation, by O P W Corporation, Cincinnati, Ohio. Automatic barrel fillers, ball and socket attachments, bottom loader assemblies, etc. 443,970, May 9, 1950. Republished Oct. 14; Class 13.

Old Bushmills Distillery Co., Ltd., The, to The "Old Bushmills" Distillery Company, Limited, Belfast, Northern Ireland. Irish malt whisky. 86,825, re-renewed June 4, 1952. O. G. Oct. 14. Class 49.

"Old Bushmills" Distillery Company, Limited, The: *See*—
Old Bushmills Distillery Co., Ltd., The.

Olds Motor Works, Detroit and Lansing, to General Motors Corporation, Detroit, Mich. Automobiles. 39,405, re-renewed Dec. 2, 1952. O. G. Oct. 14. Class 19.

Olds & Whipple, Inc., Hartford, Conn. Food for plants, vegetables, lawns, etc. 295,652, July 5, 1932. Republished Oct. 14. Class 10.

Olin Industries, Inc., East Alton, Ill. Rifle and pistol cartridges. 565,201, Oct. 14; Serial No. 592,095, published June 17, 1952. Class 9.

Olive Oil Industry, Inc., New York, N. Y. Olive oil. 565,188, Oct. 14; Serial No. 583,168, published July 15, 1952. Class 46.

One-Two Sales: *See*—
Blaze, Ben B.

Ormond Hosiery Shops, assignee: *See*—
Ormond Hosiery Shops, Inc.

Ormond Hosiery Shops, Inc., assignor to Ormond Hosiery Shops, New York, N. Y. Women's and children's hosiery, stockings and anklets, etc. 565,227, Oct. 14; Serial No. 607,110, published July 15, 1952. Class 39.

Osborn, C., & Company Limited, London, England. Anchovy paste. 565,422, Oct. 14; Serial No. 615,568. Class 46.

Otis, McAllister & Co.: *See*—
Portland Flouring Mills Company, The.

Pabco Products Inc., San Francisco, Calif. Wall paint and enamels. 565,427, Oct. 14; Serial No. 618,123. Class 16.

Packard Motor Car Company, Detroit, Mich. Fabric cleaner, cleaner for removing dirt and other foreign matter from painted surfaces of automotive vehicles, etc. 565,176, Oct. 14; Serial No. 570,117, published July 22, 1952. Class 52.

Paramount Knitting Company, to Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 87,002, re-renewed June 18, 1952. O. G. Oct. 14. Class 39.

Paramount Paper Products Co., Inc., Philadelphia, Pa. Paper bags. 291,758, renewed Feb. 23, 1952. O. G. Oct. 14. Class 2.

Park Cement & Chemical Co.: *See*—
Bradstone Rubber Company.

Parke, Davis & Company, Detroit, Mich. Vitamin preparation. 565,308, Oct. 14; Serial No. 619,516, published May 27, 1952. Class 18.

Parker, Babs, Inc., Springfield, Ill. Women's coats, suits, dresses, etc. 565,202, Oct. 14; Serial No. 593,188, published Jan. 16, 1951. Class 39.

Parrott & Co., San Francisco, Calif. Canned fish and canned shellfish. 565,244, Oct. 14; Serial No. 610,521, published July 22, 1952. Class 46.

Patten, Lee, Seed Company, Jersey City, N. J. Lawn seed mixture. 565,323, Oct. 14; Serial No. 620,362, published July 22, 1952. Class 1.

Peck's Products Company, St. Louis, Mo. General detergent concentrate. 565,383, Oct. 14; Serial No. 625,027, published July 22, 1952. Class 52.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Absorbent detergent. 565,253, Oct. 14; Serial No. 611,716, published July 22, 1952. Class 52.

Perfect Bloomer Co., Brooklyn, N. Y. Baby panties. 565,353, Oct. 14; Serial No. 622,404, published July 15, 1952. Class 39.

Pillsbury Mills, Inc., Minneapolis, Minn. Wheat flour. 565,190, Oct. 14; Serial No. 585,186, published July 22, 1952. Class 46.

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Sheet glass. 565,302, Oct. 14; Serial No. 618,814, published July 1, 1952. Class 33.

Poloron Products, Incorporated, New Rochelle, N. Y. Fiber glass liners for thermic jugs. 565,187, Oct. 14; Serial No. 581,496, published July 22, 1952. Class 2.

Popcorn Service Company: *See*—
Meltzer, Henry.

Portland Flouring Mills Company, The, Portland, Oreg., to Otis, McAllister & Co., San Francisco, Calif. Wheat flour. 88,948, re-renewed Oct. 29, 1952. O. G. Oct. 14. Class 46.

Port Morris Machine & Tool Works, New York, N. Y. Frozen custard machines. 565,221, Oct. 14; Serial No. 605,492, published July 1, 1952. Class 31.

Procter & Gamble Company, The, Cincinnati, Ohio. Processed deodorized edible vegetable oil. 565,381, Oct. 14; Serial No. 624,658, published June 17, 1952. Class 46.

Queen Stove Works, Inc.: *See*—
Super-Fan Mfg. Co.

Red-Cliff Co., Chicago, Ill. China table ware and oven ware. 565,275, Oct. 14; Serial No. 614,842, published July 1, 1952. Class 30.

Republic Battery Sales Co., Inc., Brooklyn, N. Y. Storage batteries. 565,285, Oct. 14; Serial No. 615,851, published Feb. 19, 1952. Class 21.

Rex Hosiery Finishers, Inc., Philadelphia, Pa. Finishing hosiery. 565,392–3, Oct. 14; Serial Nos. 606,086–7, published July 22, 1952. Class 106.

Rhoads, J. E., & Sons, Philadelphia, Pa. Belting. 565,284, Oct. 14; Serial No. 615,722, published July 22, 1952. Class 35.

Rhodes, James H., & Company, Chicago, Ill. Steel wool and pumice stone. 299,231, renewed Nov. 22, 1952. O. G. Oct. 14. Class 4.

Riegel & Dechter Inc. New York, N. Y. Girls' dresses, pinafores, skirts, etc. 565,363–4, Oct. 14; Serial Nos. 622,955–6, published July 1, 1952. Class 39.

Rogers, Gladwin A., doing business as Vanco Products Co., Houston, Tex. Chili powder, chill pods, stick cinnamon, etc. 565,282, Oct. 14; Serial No. 615,501, published July 22, 1952. Class 46.

Rosenberg, F., Elevator Company, Milwaukee, Wis. Electric control devices. 292,018, Mar. 1, 1932. Republished Oct. 14. Class 21.

Rothwell Ceramic Laboratory: *See*—
Rothwell, Peter.

Rothwell, Peter, doing business as Rothwell Ceramic Laboratory, Buffalo, N. Y. Custom made porcelain caps or crowns and porcelain bridgework, etc. 565,324, Oct. 14; Serial No. 620,436, published July 22, 1952. Class 44.

Rowe, H. C., & Co., to H. C. Rowe and Company, Inc., New Haven, Conn. Fresh oysters. 84,682, re-renewed Dec. 26, 1951. O. G. Oct. 14. Class 46.

Rowe, H. C., & Company, Inc.: *See*—
Rowe, H. C., & Co.

Rowen, Emil, Company, Philadelphia, Pa. Women's hosiery. 565,360, Oct. 14; Serial No. 622,679, published July 15, 1952. Class 39.

Royal Baking Powder Company, to Standard Brands Incorporated, New York, N. Y. Gelatin dessert and gelatin aspic. 298,504, renewed Oct. 25, 1952. O. G. Oct. 14. Class 46.

Russeks Fifth Avenue, Inc., New York, N. Y. Women's and girls' wearing apparel. 565,223, Oct. 14; Serial No. 606,192, published July 22, 1952. Class 39.

S. T. S. Company, Los Angeles, Calif. Body and breath deodorant. 565,415, Oct. 14; Serial No. 603,818. Class 18.

St. Louis Basket & Box Corporation, to Gaylord Container Corporation, St. Louis, Mo. Fiberboard boxes. 298,570, renewed Nov. 1, 1952. O. G. Oct. 14. Class 2.

Sanner, W. M., Company: *See*—
Sanner, Wilmer M.

Sanner, Wilmer M., doing business as W. M. Sanner Company, Baltimore, Md. Printing and engraving. 565,435, Oct. 14; Serial No. 578,942. Class 101.

Saydah & Maloof, Inc., New York, N. Y. Handkerchiefs. 565,219, Oct. 14; Serial No. 604,495, published July 1, 1952. Class 39.

Schenley Distillers, Inc.: *See*—
Benz, George, Sons, Inc.
Chapin & Gore, Inc.

Schenley Industries, Inc.: *See*—
Schenley Products Company.

Schenley Products Company, by Schenley Industries, Inc., New York, N. Y. Whiskey, gin and brandy. 347,148, June 15, 1937. Republished Oct. 14. Class 49.

Schenley Products Company, by Schenley Industries, Inc., New York, N. Y. Distillers dried grains. 353,571, Jan. 11, 1938. Republished Oct. 14. Class 46.

Scott Radio Laboratories, Inc., to Scott Radio Laboratories, Inc., Chicago, Ill. Radio receiving sets, radio receiving apparatus. 296,757, renewed Aug. 16, 1952. O. G. Oct. 14. Class 21.

Scriptex Products Co. Inc., Philadelphia, Pa. Mucilage. 565,196, Oct. 14; Serial No. 589,171, published July 22, 1952. Class 5.

Seafood Packers Inc., Provincetown, Mass. Frozen fish. 565,218, Oct. 14; Serial No. 604,412, published July 22, 1952. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Synthetic soap powder. 565,263, Oct. 14; Serial No. 613,734, published July 22, 1952. Class 52.

Selas Corporation of America, Philadelphia, Pa. Gas mixing apparatus. 565,239, Oct. 14; Serial No. 609,381, published July 1, 1952. Class 23.

Shaped Charge Explosive Manufacturers, Inc., Martinsburg, W. Va. Blasting explosives. 565,225, Oct. 14; Serial No. 606,570, published July 15, 1952. Class 9.

Shell Oil Company, assignee: *See*—
Asiatic Petroleum Company, Limited, The.

Sherman, Donald W., doing business as Sue-Don, Denver, Colo. Bed jackets. 565,197, Oct. 14; Serial No. 590,287, published July 8, 1952. Class 39.

Sherman, Robert M., Yonkers, N. Y. Medical preparation. 565,430, Oct. 14; Serial No. 618,603. Class 18.

Shuler & Benninghofen, Hamilton, Ohio. Blankets. 565,337, Oct. 14; Serial No. 621,585, published July 22, 1952. Class 42.

Societe Anonyme des Caves & des Producteurs Reunis de Roquefort, Roquefort, France. Cheese. 297,591, renewed Sept. 20, 1952. O. G. Oct. 14. Class 46.

Societe Genevoise D'Instruments De Physique, Geneva, Switzerland, to American Sip Corporation, New York, N. Y. Drawing instruments, astronomical instruments, and micrometers, etc. 296,687, renewed Aug. 16, 1952. O. G. Oct. 14. Class 26.

Societe Genevoise D'Instruments De Physique, Geneva, Switzerland, to American Sip Corporation, New York, N. Y. Machines, lathes, and tools. 297,447, renewed Sept. 13, 1952. O. G. Oct. 14. Class 23.

Society for the Advancement of Management, Inc., The, New York, N. Y. Collecting through research, study, investigation, etc., information in the field of scientific management, etc. 565,391, Oct. 14; Serial No. 597,849, published July 22, 1952. Class 100.

Solar Aircraft Company, San Diego, Calif. Ceramic coated exhaust structures for internal combustion engines. 565,325, Oct. 14; Serial No. 620,474, published June 24, 1952. Class 23.

Solar Aircraft Company, San Diego, Calif. Ceramic coated exhaust structures for internal combustion engines. 565,329, Oct. 14; Serial No. 620,975, published June 24, 1952. Class 23.

Sorbo Foundry Products Company, St. Louis, Mo. All purpose core and mold binders. 565,294, Oct. 14; Serial No. 617,320, published July 22, 1952. Class 5.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 565,292, Oct. 14; Serial No. 616,984, published July 22, 1952. Class 2.

Southern Advance Bag & Paper Co., Inc., Bangor, Maine, and Boston, Mass. Paper bags. 565,293, Oct. 14; Serial No. 616,986, published July 22, 1952. Class 2.

Southern Mills, Inc., Atlanta, Ga. Fabric woven of paper. 565,245, Oct. 14; Serial No. 610,527, published July 22, 1952. Class 42.

Southern States Cooperative, Incorporated, Richmond, Va. Frozen eviscerated chickens. 565,181, Oct. 14; Serial No. 576,020, published July 15, 1952. Class 46.

Speedi-Dri Corporation, Philadelphia, Pa. Fuller's earth. 565,335, Oct. 14; Serial No. 621,531, published July 22, 1952. Class 1.

Speidel Corporation Providence, R. I. Watch bracelets. 565,296, Oct. 14; Serial No. 617,820, published June 24, 1952. Class 28.

Spice Mill Publishing Co., The, New York, N. Y. Monthly trade publication. 565,423, Oct. 14; Serial No. 615,660. Class 38.

Sporting Goods Publishing Company, The, St. Louis, Mo. Monthly columns in trade publication. 565,425, Oct. 14; Serial No. 616,730. Class 38.

Squibb, E. R., & Sons, New York, N. Y. Germicidal preparations. 298,849, renewed Nov. 8, 1952. O. G. Oct. 14. Class 18.

Staley, A. E., Manufacturing Company, Decatur, Ill. Edible vegetable oils. 565,336, Oct. 14; Serial No. 621,532, published Apr. 1, 1952. Class 46.

Staley Milling Company, North Kansas City, Mo. Poultry and live stock feed. 565,332, Oct. 14; Serial No. 621,107, published June 17, 1952. Class 46.

Standard Brands Incorporated: *See*—
Royal Baking Powder Company.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Gas for illuminating purposes, gas for fuel purposes, etc. 295,042, renewed June 14, 1952. O. G. Oct. 14. Class 6.

Stettheimer Co., San Francisco, Calif. Knitted underwear, union suits, knitted outer shirts, etc. 565,230, Oct. 14; Serial No. 608,179, published July 15, 1952. Class 39.

Stillman Hosiery Mills Co., Philadelphia, Pa. Women's hosiery. 565,333, Oct. 14; Serial No. 621,340, published July 8, 1952. Class 39.

Stocker Manufacturing Company, Netcong, N. J. Sealing tapes of laminated kraft paper. 565,382, Oct. 14; Serial No. 624,978, published July 22, 1952. Class 5.

Storm Flooring Co. Inc., New York, N. Y. Wooden flooring. 565,243, Oct. 14; Serial No. 610,345, published July 15, 1952. Class 12.

Sue-Don: *See*—
Sherman, Donald W.

Sundial Broadcasting Corporation, Sausalito and Mount Beacon, Sausalito, Calif. Radio broadcasting. 565,405, Oct. 14; Serial No. 588,152. Class 107.

Super-Fan Mfg. Co., Freeport, Ill., by Queen Stove Works, Inc., Albert Lea, Minn. Ventilating fans. 310,841, Mar. 13, 1934. Republished Oct. 14. Class 34.

Supreme Council, Mystic Order Veiled Prophets of the Enchanted Realm, Chicago, Ill. Lapel buttons lapel pins, badges, etc. 565,286, Oct. 14; Serial No. 615,911, published July 1, 1952. Class 28.

Sweet, H. Gordon: *See*—
Rowe, H. C., & Co.

Swift & Company, doing business as White Provision Company, Chicago, Ill., and Atlanta, Ga. Butter, shell eggs, cheese, etc. 565,205, Oct. 14; Serial No. 595,569, published July 22, 1952. Class 46.

Tanaka, Genba, Kaijogori, Chiba-Ken, to Choshi Shoyu Kabushiki Kaisha, Tokyo, Japan. Sauce (soy). 86,674, re-renewed May 21, 1952. O. G. Oct. 14. Class 46.

Tape, Inc., Green Bay, Wis. Gummed tape. 565,248, Oct. 14; Serial No. 610,870, published July 22, 1952. Class 5.

Tarasi, Joseph, Harmarville, Pa. Sea food sauce. 565,279, Oct. 14; Serial No. 615,144, published July 22, 1952. Class 46.

Technical Publishing Company, The, Cleveland, Ohio. Publication. 565,424, Oct. 14; Serial No. 616,344. Class 38.

Tek Bearing Co., Inc., Bridgeport, Conn. Ball and roller bearings. 565,214, Oct. 14; Serial No. 602,126, published June 24, 1952. Class 23.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., to The Texas Company, New York, N. Y. Lubricating-oils. 88,032, re-renewed Aug. 20, 1952. O. G. Oct. 14. Class 15.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y., to The Texas Company, New York, N. Y. Lubricating-oil. 88,712, re-renewed Oct. 15, 1952. O. G. Oct. 14. Class 15.

Texas Company, The, to The Texas Company, New York, N. Y. Compounded mineral oil. 299,210, renewed Nov. 22, 1952. O. G. Oct. 14. Class 6.

Textile Distributors, Inc., Thomasville, N. C. Ladies' hosiery. 565,338, Oct. 14; Serial No. 621,737, published July 15, 1952. Class 39.

Textileather Corporation, Toledo, Ohio. Coated fabrics and resinous sheet material. 565,267, Oct. 14; Serial No. 614,072, published July 22, 1952. Class 50.

Thalson, Fred W., doing business as Lubricating Gasoline Co., Houston, Tex. Specially prepared chemical compound to be used as an admixture in treating gasoline, etc. 565,406, Oct. 14; Serial No. 588,987. Class 15.

Tom-A-Toe Produce Co., Inc., Atlanta, Ga. Tomatoes. 565,228, Oct. 14; Serial No. 607,272, published July 22, 1952. Class 46.

Tredway, Martha, Dallas, Tex. Baby pants. 565,261, Oct. 14; Serial No. 613,576, published July 8, 1952. Class 39.

Trusty Manufacturers, Inc., La Porte, Ind. Hand trucks and dollies. 565,220, Oct. 14; Serial No. 605,452, published June 10, 1952. Class 19.

Ultramix Corporation, Cleveland, Ohio. Sugarless imitation ice cream. 565,233, Oct. 14; Serial No. 608,575, published July 15, 1952. Class 46.

Uni-Mark, Inc., Boston, Mass. Artificial leather. 565,246, Oct. 14; Serial No. 610,809, published July 1, 1952. Class 50.

United Elastic Corporation, Easthampton, Mass. Elastic fabrics. 298,698, renewed Nov. 1, 1952. O. G. Oct. 14. Class 42.

U. S. Manufacturing Corporation, Decatur, Ill. Fabrics. 297,892, renewed Oct. 4, 1952. O. G. Oct. 14. Class 42.

Universal Mills, Fort Worth, Tex. Food for livestock. 565,178, Oct. 14; Serial No. 571,768, published July 15, 1952. Class 46.

Vanco Products Co.: *See*—
Rogers, Gladwin A.

Van Houten, C. J., & Zoon, Weesp, to C. J. van Houten & Zoon, N. V., Weesp, Netherlands. Cocoa, chocolate, and cocoabutter. 294,707, renewed June 7, 1952. O. G. Oct. 14. Class 46.

Van Houten, C. J., & Zoon, N. V.: *See*—
Van Houten, C. J., & Zoon.

Van Melle's Biscuits-en Toffeefabricken N. V., Rotterdam, Netherlands. Biscuits, and wafers or cookies or cakes. 565,215, Oct. 14; Serial No. 602,235, published July 22, 1952. Class 46.

Vereinigte Uhrenfabriken von Gebruder Junghans und Thomas Haller A.-G., to Gebruder Junghans Aktiegesellschaft, Schramberg, Germany. Clock-works, watch-cases and clock and watch dial-plates. 77,347, re-renewed Mar. 29, 1950. O. G. Oct. 14. Class 27.

Viber Company, Assignee: *See*—
Gordon, Graham M.

Viber Company, Limited: *See*—
Gordon Graham M.

Victor Food Corporation, Victor, N. Y. Canned vegetables. 565,237, Oct. 14; Serial No. 608,965, published July 15, 1952. Class 46.

Vienna Beauty Products Co., Chicago, Ill. Chemically treated pads. 565,260, Oct. 14; Serial No. 612,878, published July 22, 1952. Class 44.

Vigny, Inc., New York, N. Y. Perfumes, toilet waters face lotions, etc. 565,420, Oct. 14; Serial No. 607,059. Class 51.

Vilas & Company, Storm Lake, Iowa. Dressed poultry, fresh eggs and frozen eggs. 565,357, Oct. 14; Serial No. 622,568, published July 22, 1952. Class 46.

Virginia-Carolina Chemical Corporation, Richmond, Va. Cleansing compositions. 565,241, Oct. 14; Serial No. 609,706, published July 22, 1952. Class 52.

Wachusett Shirt Company, Leominster, Mass., to Lexington Manufacturing Company, Lexington, N. C. Dress and negligee shirts. 298,270, renewed Oct. 18, 1952. O. G. Oct. 14. Class 39.

Walker, Hiram, & Sons Inc., Detroit, Mich. Whiskey. 339,939, Oct. 27, 1936. Republished Oct. 14. Class 49.

Waltham Watch Company: *See*—
Manheimer Watch Company.

Waukegan Chemical Company, North Chicago, Ill., to Atlas Powder Company, Wilmington, Del. Gum varnishes, syntbetic resin varnishes, asphaltum varnish, etc. 293,782, renewed May 3, 1952. O. G. Oct. 14. Class 12.

Weekly Publications, Inc., New York, N. Y. Periodical publication. 565,431, Oct. 14; Serial No. 620,069. Class 38.

West Disinfecting Company, Long Island City, N. Y. Powdered hand soap. 565,249, Oct. 14; Serial No. 611,165, published July 22, 1952. Class 52.

White Motor Company, The, Cleveland, Ohio. Motor trucks and buses. 565,184, Oct. 14; Serial No. 578,660, published June 10, 1952. Class 19.

White Provision Company: *See*—
Swift & Company.

Willson Products, Inc., Reading, Pa. Respirator and mask attachments. 565,358, Oct. 14; Serial No. 622,571, published July 22, 1952. Class 44.

Willys-Overland Motors, Inc., Toledo, Ohio. Automotive vehicles and structural parts thereof. 565,160, Oct. 14; Serial No. 463,220, published June 10, 1952. Class 19.

Wilson Rubber Company, The, Canton, Ohio. Rubber gloves. 293,390, Apr. 19, 1932. Republished Oct. 14. Class 39.

Wilson, Walter, Pasadena, Calif. Ceramic tableware. 565,212, Oct. 14; Serial No. 600,406, published July 1, 1952. Class 30.

Winn & Lovett Grocery Company, Jacksonville, Fla. Dressed poultry. 565,276, Oct. 14; Serial No. 614,860, published July 22, 1952. Class 46.

Winne, Frank W., & Son, Inc., Philadelphia, Pa. Cordage items. 565 378, Oct. 14; Serial No. 623,864, published July 15, 1952. Class 7.

Wirthmore Feed Co.: *See*—
Conkey, G. E., Co.

Wood, J. R., & Sons, Inc., New York, N. Y. Finger rings. 565,299, Oct. 14; Serial No. 618,429, published July 1, 1952. Class 28.

World Adventure Series, Incorporated, Detroit, Mich. Lecturing on experiences, places, and events of interest throughout the world. 565,389, Oct. 14; Serial No. 586,831, published July 22, 1952. Class 107.

York Drug Company, Inc.: *See*—
Gray, Frank A.

Zion Industries, Inc., Zion, Ill. Chocolate fig bars. 565,203, Oct. 14; Serial No. 593,897, published July 22, 1952. Class 46.

Zion Industries, Inc., Zion, Ill. Date and nut bars. 565,204, Oct. 14; Serial No. 593,898, published July 22, 1952. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Discs of hickory wood in its natural state. G. A. Jolliffe. 565,345, Oct. 14; Serial No. 622,076, published July 22, 1952.

Fuller's earth. Speedi-Dri Corporation. 565,335, Oct. 14; Serial No. 621,531, published July 22, 1952.

Kid, glazed kid, and other leathers. Amalgamated Leather Companies, Inc. 296,417, renewed Aug. 9, 1952. O. G. Oct. 14.

Lawn seed mixture. Lee Patten Seed Company. 565,323, Oct. 14; Serial No. 620,362, published July 22, 1952.

Leather, Waterproof and treated. Independent Leather Manufacturing Co., Inc. 565,331, Oct. 14; Serial No. 621,104, published July 22, 1952.

Rough and unfinished granite. J. P. Gilman Granite Company. 565,200, Oct. 14; Serial No. 591,479, published July 15, 1952.

Whole sheep and lambskin linings. Donnell & Mudge, Inc. 565,222, Oct. 14; Serial No. 605,649, published July 22, 1952.

CLASS 2

Bags, merchandise envelopes, boxes, etc. Central States Paper & Bag Co. 565,309, Oct. 14; Serial No. 619,601, published July 22, 1952.

Bags, Paper. Paramount Paper Products Co., Inc. 291,758, renewed Feb. 23, 1952. O. G. Oct. 14.

Bags, Paper. Southern Advance Bag & Paper Co., Inc. 565,292, Oct. 14; Serial No. 616,984, published July 22, 1952.

Bags, Paper. Southern Advance Bag & Paper Co., Inc. 565,293, Oct. 14; Serial No. 616,986, published July 22, 1952.

Boxes, Fiberboard. St. Louis Basket & Box Corporation. 298,570, renewed Nov. 1, 1952. O. G. Oct. 14.

Cases, Wooden and paper-board packing and shipping. Atlas Plywood Corporation. 565,400, Oct. 14; Serial No. 574,808.

Fiber glass liners for thermic jugs. Poloron Products, Incorporated. 565,187, Oct. 14; Serial No. 581,496, published July 22, 1952.

Vault, Burial. Mead-Suydam Company. 294,273, renewed May 24, 1952. O. G. Oct. 14.

CLASS 3

Handbags, Ladies'. Coblentz Bag Co., Inc. 371,303, Sept. 19, 1939. Republished Oct. 14.

CLASS 4

Cleaning and polishing preparation, Combination. Cee-Bee Chemical Co., Inc. 565,295, Oct. 14; Serial No. 617,335, published July 22, 1952.

Steel wool and pumice stone. James H. Rhodes & Company. 299,231, renewed Nov. 22, 1952. O. G. Oct. 14.

Wax-containing liquid cleaner, etc. T. Churchey. 565,175, Oct. 14; Serial No. 568,426, published Oct. 9, 1951.

CLASS 5

Adhesive cement, Liquid. Bradstone Rubber Company. 565,301, Oct. 14; Serial No. 618,782, published July 22, 1952.

Adhesive cements. Monsanto Chemical Company. 565,305–6, Oct. 14; Serial Nos. 619,467–8, published July 22, 1952.

Core and mold binders, All purpose. Sorbo Foundry Products Company. 565,294, Oct. 14; Serial No. 617,320, published July 22, 1952.

Glue and an adhesive agent. Armour and Company. 565,268, Oct. 14; Serial No. 614,122, published July 22, 1952.

Gummed paper tape. Levin Bros. Paper Co. 565,277, Oct. 14; Serial No. 614,882, published July 15, 1952.

Gummed tape. Tape, Inc. 565,248, Oct. 14; Serial No. 610,870, published July 22, 1952.

Mucilage. Scriptex Products Co. Inc. 565,196, Oct. 14; Serial No. 589,171, published July 22, 1952.

Sealing tapes of laminated kraft paper. Stocker Manufacturing Company. 565,382, Oct. 14; Serial No. 624,978, published July 22, 1952.

Weatherstrip cement. Autospare Mfg. Corp. 565,264, Oct. 14; Serial No. 613,864, published July 22, 1952.

CLASS 6

Chemical composition. Hanson-Van Winkle-Munning Company. 565,375, Oct. 14; Serial No. 623,654, published July 22, 1952.

Disinfectant and household and industrial germicidal material. The Chemical Corporation. 565,278, Oct. 14; Serial No. 615,049, published July 22, 1952.

Gas for illuminating purposes, gas for fuel purposes, etc. Standard Oil Company of California. 295,042, renewed June 14, 1952. O. G. Oct. 14.

Insecticide. Airosol Company, Inc. 565,247, Oct. 14; Serial No. 610,815, published July 22, 1952.

Mineral oil, Compounded. The Texas Company. 299,210, renewed Nov. 22, 1952. O. G. Oct. 14.

CLASS 7

Cordage items. Frank W. Winne & Son, Inc. 565,378, Oct. 14; Serial No. 623,864, published July 15, 1952.

Rope and twine. C. A. Dougherty Cordage Mill. 565,262, Oct. 14; Serial No. 613,631, published July 15, 1952.

Rope, binder, baler, and wrapping string. Cordeleria Santa Ines, S. A. 565,372, Oct. 14; Serial No. 623,403, published July 15, 1952.

CLASS 9

Blasting explosives. Shaped Charge Explosive Manufacturers, Inc. 565,225, Oct. 14; Serial No. 606,570, published July 15, 1952.

Bombs, Aerial practice. The General Tire & Rubber Company. 565,281, Oct. 14; Serial No. 615,382, published June 24, 1952.

Cartridges, Rifle and pistol. Olin Industries, Inc. 565,201, Oct. 14; Serial No. 592,095, published June 17, 1952.

Dynamite, gunpowder, blasting-powder, etc. Norsk Hydro-Elektrisk Kvaelstofaktieselskab. 565,173, Oct. 14; Serial No. 564,256, published July 1, 1952.

Firecrackers. Balfour, Guthrie & Co., Limited. 565,328, Oct. 14; Serial No. 620,949, published June 17, 1952.

Fuses, Explosive. Imperial Chemical Industries Limited. 565,298, Oct. 14; Serial No. 617,963, published June 17, 1952.

Pistols and parts therefor. The High Standard Manufacturing Corporation. 565,238, Oct. 14; Serial No. 609,177, published July 8, 1952.

Shotguns, rifles, cartridges, and shotgun shells. Aldens, Inc. 565,231, Oct. 14; Serial No. 608,485, published June 17, 1952.

CLASS 10

Dried solids of ammonia base waste sulfite liquor, for use as a fertilizer and soil conditioner. Crown Zellerbach Corporation. 565,362, Oct. 14; Serial No. 622,809, published July 1, 1952.

Fertilizer, Liquid. The Dow Chemical Company. 565,367, Oct. 14; Serial No. 623,047, published July 8, 1952.

Fertilizers. Monsanto Chemical Company. 565,379, Oct. 14; Serial No. 624,043, published July 1, 1952.

Food for plants, vegetables, lawns, etc. Olds & Whipple, Inc. 295,652, July 5, 1932. Republished Oct. 14.

Preparation for vitalizing and preserving the life of cut flowers. General Floral Products Co., Inc. 565,385, Oct. 14; Serial No. 626,160, published July 15, 1952.

Soil conditioning agents. Monsanto Chemical Company. 565,387, Oct. 14; Serial No. 627,520, published July 22, 1952.

Synthetic polyelectrolyte soil conditioning agent. Monsanto Chemical Company. 565,355, Oct. 14; Serial No. 622,449, published July 1, 1952.

Synthetic resinous polyelectrolyte soil conditioning agent. Monsanto Chemical Company. 565,365–6, Oct. 14; Serial Nos. 623,002–3, published July 1, 1952.

CLASS 12

Cements, Fireproof. H. W. Johns-Manville Company. 38,208, Apr. 29, 1902. Republished Oct. 14.

Concrete blocks. Knighton Franchise Distributing Company. 565,407, Oct. 14; Serial No. 589,096.

Doors. W. H. Calder. 565,404, Oct. 14; Serial No. 587,988.

Flooring, Wooden. Storm Flooring Co. Inc. 565,243, Oct. 14; Serial No. 610,345, published July 15, 1952.

Gum varnishes, synthetic resin varnishes, asphaltum varnish, etc. Waukegan Chemical Company. 293,782, renewed May 3, 1952. O. G. Oct. 14.

Surface coated fiber composition board and fiberboard tile for interior use. Minnesota and Ontario Paper Company. 565,408, Oct. 14; Serial No. 591,944.

Tiles, Wall. Hunter Douglas Corporation. 565,194, Oct. 14; Serial No. 588,095, published Jan. 2, 1951.

Window units. Huttig Sash & Door Co. 565,213, Oct. 14; Serial No. 601,358, published July 22, 1952.

Windows and doors. Norman Aluminum Window Co. Inc. 565,413, Oct. 14; Serial No. 600,140.

Windows, Metal. Industrial Engineering Works. 565,207, Oct. 14; Serial No. 596,923, published July 22, 1952.

CLASS 13

Automatic barrel fillers, ball and socket attachments, bottom loader assemblies, etc. The Ohio Pattern Works & Foundry Co. 443,970, May 9, 1950. Republished Oct. 14.

Boot protectors, boot studs, and boot nails. Blakey's Boot Protectors Limited. 297,383, renewed Sept. 13, 1952. O. G. Oct. 14.

Screws, bolts, nuts, etc. Accurate Parts Manufacturing Company. 296,766, renewed Aug. 23, 1952. O. G. Oct. 14.

Tubes, Heating, and tube couplings. Brown, Boveri & Cie. 296,959, renewed Aug. 30, 1952. O. G. Oct. 14.

CLASS 14

Metal stock. Hunter Douglas Corporation. 565,283, Oct. 14; Serial No. 615,605, published May 27, 1952.

CLASS 15

Lubricating-oil. The Texas Company. 88,712, re-renewed Oct. 15, 1952. O. G. Oct. 14.

Lubricating-oils. The Texas Company. 88,032, re-renewed Aug. 20, 1952. O. G. Oct. 14.

Oil and greases, Lubricating. Autol Incorporated. 565,171, Oct. 14; Serial No. 561,287, published Nov. 14, 1950.

Oils, Lubricating. Gaseteria Incorporated. 296,953, renewed Aug. 30, 1952. O. G. Oct. 14.

Specially prepared chemical compound to be used as an admixture in treating gasoline, etc. F. W. Thalson. 565,406, Oct. 14; Serial No. 588,987.

CLASS 16

Paint, Wall, and enamels. Pabco Products Inc. 565,427, Oct. 14; Serial No. 618,123.

CLASS 18

Anesthetic and antiseptic salve. Manhattan Drug Company. 565,417, Oct. 14; Serial No. 605,103.

Antiseptic powder, Dusting, and a laxative medicine. The Chattanooga Medicine Company. 294,028, May 17, 1932. Republished Oct. 14.

Body and breath deodorant. S. T. S. Company. 565,415, Oct. 14; Serial No. 603,818.

Chlorophyll tablets. B. B. Blaze. 565,229, Oct. 14; Serial No. 607,283, published June 10, 1952.

Diphtheria and tetanus toxoids and pertussis vaccine. Allied Laboratories, Inc. 565,316, Oct. 14; Serial No. 619,789, published June 10, 1952.

Germicidal preparations. E. R. Squibb & Sons. 298,849, renewed Nov. 8, 1952. O. G. Oct. 14.

Hair remedies. F. A. Gray. 89,250, re-renewed Dec. 3, 1952. O. G. Oct. 14.

Herb teas beneficial for all stomach disorders, etc. Arko Herbs Incorporated. 297,927, renewed Oct. 4, 1952. O. G. Oct. 14.

Medical preparation. R. M. Sherman. 565,430, Oct. 14; Serial No. 618,603.

Preparation for the treatment of heartworms. Allied Laboratories, Inc. 565,313, Oct. 14; Serial No. 619,786, published June 10, 1952.

Preparation for the treatment of patients with psychic fatigue, mental depression, etc. Allied Laboratories, Inc. 565,314, Oct. 14; Serial No. 619,787, published June 10, 1952.

Preparation indicated for the relief of spasmodic conditions. Allied Laboratories, Inc. 565,315, Oct. 14; Serial No. 619,788, published June 10, 1952.

Sedative expectorant. Allied Laboratories, Inc. 565,311, Oct. 14; Serial No. 619,783, published June 10, 1952.

Sedative tablets. Manhattan Drug Company. 565,418, Oct. 14; Serial No. 605,104.

Spirits of camphor U. S. P., spirits of nitre U. S. P., aromatic spirits of ammonia U. S. P., etc. Bloomingdale Bros., Inc. 298,664, renewed Nov. 1, 1952. O. G. Oct. 14.

Veterinary intravenous anesthetic agent. Allied Laboratories, Inc. 565,312, Oct. 14; Serial No. 619,784, published June 10, 1952.

Veterinary preparation. Allied Laboratories, Inc. 565,317–20, Oct. 14; Serial Nos. 619,790–3, published June 10, 1952.

Vitamin preparation. Parke, Davis & Company. 565,308, Oct. 14; Serial No. 619,516, published May 27, 1952.

CLASS 19

Airplanes. McDonnell Aircraft Corporation. 565,359, Oct. 14; Serial No. 622,668, published June 3, 1952.

Automobiles. Olds Motor Works. 39,405, re-renewed Dec. 2, 1952. O. G. Oct. 14.

Automotive vehicles and structural parts thereof. Willys-Overland Motors, Inc. 565,160, Oct. 14; Serial No. 463,220, published June 10, 1952.

Baby stroller, rocker, sled, and walker, Combination. Har-Ken Products, Inc. 565,180, Oct. 14; Serial No. 575,908, published June 10, 1952.
Railway car trucks and the component parts. The Buckeye Steel Castings Company. 565,354, Oct. 14; Serial No. 622,426, published June 10, 1952.
Trucks, Hand, and dollies. Trusty Manufacturers, Inc. 565,220, Oct. 14; Serial No. 605,452, published June 10, 1952.
Trucks, Materials handling. Marvel Industries, Inc. 565,258, Oct. 14; Serial No. 612,551, published June 10, 1952.
Trucks, Motor, and buses. The White Motor Company. 565,184, Oct. 14; Serial No. 578,660, published June 10, 1952.

CLASS 21

Batteries, Storage. Republic Battery Sales Co., Inc. 565,285, Oct. 14; Serial No. 615,851, published Feb. 19, 1952.
Electric control devices. F. Rosenberg Elevator Company. 292,018, Mar. 1, 1932. Republished Oct. 14.
Electrically illuminated push buttons. NuTone, Inc. 565,426, Oct. 14; Serial No. 617,051.
Radio receiving sets, radio receiving apparatus. Scott Radio Laboratories, Inc. 296,757, renewed Aug. 16, 1952. O. G. Oct. 14.

CLASS 22

Miniature bowling game. Associated Patent Industries. 444,722, Oct. 14; Serial No. 518,745, published July 22, 1952.
Roller skates. Chicago Roller Skate Company. 565,179, Oct. 14; Serial No. 572,162, published July 22, 1952.
Skate wheels. Howard Manufacturing Corporation. 426,674, Jan. 7, 1947. Republished Oct. 14.
Skate wheels. Howard Manufacturing Corporation. 429,822, May 20, 1947. Republished Oct. 14.
Skate wheels. Howard Manufacturing Corporation. 427,960, Mar. 4, 1947. Republished Oct. 14.

CLASS 23

Ball and roller bearings. Tek Bearing Co., Inc. 565,214, Oct. 14; Serial No. 602,126, published June 24, 1952.
Ceramic-coated exhaust structures for internal combustion engines. Solar Aircraft Company. 565,325, Oct. 14; Serial No. 620,474, published June 24, 1952.
Ceramic coated exhaust structures for internal combustion engines. Solar Aircraft Company. 565,329, Oct. 14; Serial No. 620,975, published June 24, 1952.
Depth placement fertilizer and seeder machines. Ezee Flow Corporation. 565,256, Oct. 14; Serial No. 612,492, published June 24, 1952.
Gas mixing apparatus. Selas Corporation of America. 565,239, Oct. 14; Serial No. 609,381, published July 1, 1952.
Hose attachment, Garden. The Bradson Company. 565,206, Oct. 14; Serial No. 596,325, published June 24, 1952.
Hydraulic systems, Variable pressure. Link-Belt Speeder Corporation. 565,211, Oct. 14; Serial No. 599,880, published Mar. 18, 1952.
Machinery. G. M. Gordon. 297,997, renewed Oct. 11, 1952. O. G. Oct. 14.
Machines, lathes, and tools. Societe Genevoise D'Instruments De Physique. 297,447, renewed Sept. 13, 1952. O. G. Oct. 14.
Motors, Outboard. The B. F. Goodrich Company. 565,257, Oct. 14; Serial No. 612,538, published June 24, 1952.
Power percussion well-drilling machines and cable well-drilling machines, steam-engines, etc. Keystone Driller Company. 88,893, re-renewed Oct. 29, 1952. O. G. Oct. 14.
Pumps, Circulating water, and exhaust gas turbines. Brown, Boveri & Cie. 297,356, renewed Sept. 13, 1952. O. G. Oct. 14.
Razor blades. Kaufmann Department Stores, Inc. 292,431, Mar. 15, 1932. Republished Oct. 14.
Saws. Kingsland Saw Works, Inc. 565,198, Oct. 14; Serial No. 590,315, published June 24, 1952.
Saws and saw blades. Clemson Bros. Inc. 296,680, renewed Aug. 16, 1952. O. G. Oct. 14.
Sewing-machines. Illinois Sewing Machine Company. 36,950, re-renewed Aug. 20, 1951. O. G. Oct. 14.

CLASS 24

Laundry washing machines, Electric. Hahn Department Stores, Inc. 290,809, Jan. 19, 1932. Republished Oct. 14.

CLASS 26

Coal-meters. C. J. Allen. 87,701, re-renewed Aug. 6, 1952. O. G. Oct. 14.
Drawing instruments, astronomical instruments, and micrometers, etc. Societe Genevoise D'Instruments De Physique. 296,687, renewed Aug. 16, 1952. O. G. Oct. 14.

CLASS 27

Clock-works, watch-cases and clock and watch dial-plates. Vereinigte Uhrenfabriken von Gebruder Jungbans und Thomas Haller A.-G. 77,347, re-renewed Mar. 29, 1950. O. G. Oct. 14.
Watches and chronographs. Montres Delbana S. a. r. L. 565,168, Oct. 14; Serial No. 557,865, published July 1, 1952.
Watches, watch cases, and watch movements. Manheimer Watch Company. 288,983, renewed Nov. 10, 1951. O. G. Oct. 14.

CLASS 28

Hollow ware. Joseph Lerner & Son, Inc. 565,416, Oct. 14; Serial No. 604,974.
Lapel buttons, lapel pins, badges, etc. Supreme Council, Mystic Order Veiled Prophets of the Enchanted Realm. 565,286, Oct. 14; Serial No. 615,911, published July 1, 1952.
Rings, Finger. J. R. Wood & Sons, Inc. 565,299, Oct. 14; Serial No. 618,429, published July 1, 1952.
Watch bracelets. Speidel Corporation. 565,296, Oct. 14; Serial No. 617,820, published June 24, 1952.
Watch bracelets, Wrist. Mira-Flex Watchband Corporation. 565,297, Oct. 14; Serial No. 617,883, published June 24, 1952.

CLASS 29

Brush, Fountain. Laitner Brush Company. 565,428, Oct. 14; Serial No. 618,358.
Brushes, Artists', soft hair brushes, paint brushes. J. D. Kappeler. 565,290, Oct. 14; Serial No. 616,636, published July 22, 1952.
Powder puffs. Bourjois, Inc. 308,895, Dec. 26, 1933. Republished Oct. 14.

CLASS 30

Ceramic tableware. W. Wilson. 565,212, Oct. 14; Serial No. 600,406, published July 1, 1952.
China table ware and oven ware. Red-Cliff Co. 565,275, Oct. 14; Serial No. 614,842, published July 1, 1952.

CLASS 31

Frozen custard machines. Port Morris Machine & Tool Works. 565,221, Oct. 14; Serial No. 605,492, published July 1, 1952.

CLASS 33

Glass, Laminated. American Window Glass Company. 565,266, Oct. 14; Serial No. 614,028, published July 1, 1952.
Glass, Sheet. Pittsburgh Plate Glass Company. 565,302, Oct. 14; Serial No. 618,814, published July 1, 1952.

CLASS 34

Fans, Ventilating. Super-Fan Mfg. Co. 310,841, Mar. 13, 1934. Republished Oct. 14.
Steam generators and accessories. Brown, Boveri & Cie. 295,063, renewed June 14, 1952. O. G. Oct. 14.

CLASS 35

Belting. J. E. Rhoads & Sons. 565,284, Oct. 14; Serial No. 615,722, published July 22, 1952.
Tires, Rubber vehicle. The B. F. Goodrich Company. 294,731, renewed June 7, 1952. O. G. Oct. 14.

CLASS 36

Key pads for woodwind musical instruments. C. G. Conn, Ltd. 565,361, Oct. 14; Serial No. 622,768, published July 8, 1952.
Musical singing bird boxes, musical singing bird cages, and musical whistling figures. Kende Sales Corp. 565,386, Oct. 14; Serial No. 627,420, published July 22, 1952.
Phonograph records, Grooved. "400" Records, Inc. 565,330, Oct. 14; Serial No. 621,059, published July 8, 1952.

CLASS 37

Paper, Mounting. Florez, Incorporated. 565,402, Oct. 14; Serial No. 579,313.
Pens, Steel and metallic. William Mitchell (Pens) Limited. 87,787, re-renewed Aug. 6. O. G. Oct. 14.
Stencils. Milo Harding Company, Ltd. 293,678, renewed May 3, 1952. O. G. Oct. 14.

CLASS 38

Books, Pattern. D. R. Brann. 565,409, Oct. 14; Serial No. 593,778.
Books, Price evaluating. Abos's Mfg. Co., Inc. 565,433, Oct. 14; Serial No. 624,440.
Columns in trade publication, Monthly. The Sporting Goods Publishing Company. 565,425, Oct. 14; Serial No. 616,730.
Decalcomanias. The Meyercord Co. 565,411, Oct. 14; Serial No. 598,196.
Newspaper column or columns. Fairchild Publications, Inc. 565,432, Oct. 14; Serial No. 622,108.
Page feature. Bigelow-Sanford Carpet Co., Inc. 565,412, Oct. 14; Serial No. 599,926.
Publication. The Technical Publishing Company. 565,424, Oct. 14; Serial No. 616,344.
Publication, Monthly trade. The Spice Mill Publishing Co. 565,423, Oct. 14; Serial No. 615,660.
Publication, Periodical. Fisherman Press, Inc. 565,414, Oct. 14; Serial No. 603,491.
Publication, Periodical. Weekly Publications, Inc. 565,431, Oct. 14; Serial No. 620,069.

Section in a periodical. Cycling Press, Inc. 565,403, Oct. 14; Serial No. 586,625.

CLASS 39

Aprons, overall coats, overall pants, etc. The Lehon Company. 444,723, Oct. 14; Serial No. 520,742, published July 8, 1952.
Bibs. Donovan Enterprises. 565,347, Oct. 14; Serial No. 622,147, published July 15, 1952.
Bibs. Donovan Enterprises. 565,348, Oct. 14; Serial No. 622,149, published July 15, 1952.
Blouses for women and misses. Amulette Company. 565,191, Oct. 14; Serial No. 586,719, published July 1, 1952.
Blouses, Girls'. American Blouse Co. Inc. 565,232, Oct. 14; Serial No. 608,528, published July 1, 1952.
Boots, shoes, and oxfords. Walter Booth Shoe Co. 298,450, renewed Oct. 25, 1952. O. G. Oct. 14.
Brassières. Biflex Foundations, Inc. 565,371, Oct. 14; Serial No. 623,298, published July 8, 1952.
Brassières, girdles, corselets and foundation garments. Even-Pul Foundations, Inc. 565,377, Oct. 14; Serial No. 623,794, published July 15, 1952.
Coats, suits, dresses, etc., Women's. Parker, Babs, Inc. 565,202, Oct. 14; Serial No. 593,188, published Jan. 16, 1951.
Corsets, brassières and foundation garments. The Dora Miles Company. 565,310, Oct. 14; Serial No. 619,706, published July 22, 1952.
Dresses, Children's, boys' suits, and play clothes. Little Fashion Togs. 565,272, Oct. 14; Serial No. 614,351, published July 1, 1952.
Dresses, pinafores, skirts, etc., Girls'. Riegel & Dechter Inc. 565,363–4, Oct. 14; Serial Nos. 622,955–6, published July 1, 1952.
Gloves. Fairfield Glove Co. 565,192, Oct. 14; Serial No. 587,865, published July 1, 1952.
Gloves, and hosiery, Ladies' and misses', and children's. Ely & Walker Dry Goods Company. 565,167, Oct. 14; Serial No. 553,353, published Oct. 31, 1950.
Gloves, Rubber. The Wilson Rubber Company. 293,390, Apr. 19, 1932. Republished Oct. 14, 1952.
Hair nets. Jordan Marsh Company. 565,373, Oct. 14; Serial No. 623,418, published July 8, 1952.
Handkerchiefs. Saydah & Maloof, Inc. 565,219, Oct. 14; Serial No. 604,495, published July 1, 1952.
Hats and hat bodies, Women's, men's, and children's. Merrimac Hat Corporation. 565,174, Oct. 14; Serial No. 564,730, published July 15, 1952.
Hosiery. Grey Hosiery Mills. 565,273–4, Oct. 14; Serial Nos. 614,625–6, published July 15, 1952.
Hosiery. Julius Kayser & Co. 565,342–3, Oct. 14; Serial Nos. 621,969–70, published July 15, 1952.
Hosiery. Paramount Knitting Company. 87,002, renewed June 18, 1952. O. G. Oct. 14.
Hosiery, Ladies'. Textile Distributors, Inc. 565,338, Oct. 14; Serial No. 621,737, published July 15, 1952.
Hosiery, stockings and anklets, etc., Women's and children's. Ormond Hosiery Shops, Inc. 565,227, Oct. 14; Serial No. 607,110, published July 15, 1952.
Hosiery, underwear, and gloves, Women's and girls'. Gotham Hosiery Company, Inc. 565,240, Oct. 14; Serial No. 609,406, published July 15, 1952.
Hosiery, Women's. Burlington Mills Corporation. 565,344, Oct. 14; Serial No. 622,065, published July 15, 1952.
Hosiery, Women's. Emil Rowen Company. 565,360, Oct. 14; Serial No. 622,679, published July 15, 1952.
Hosiery, Women's. Stillman Hosiery Mills Co. 565,333, Oct. 14; Serial No. 621,340, published July 8, 1952.
Jackets, Bed. D. W. Sherman. 565,197, Oct. 14; Serial No. 590,287, published July 8, 1952.
Panties, Baby. Perfect Bloomer Co. 565,353, Oct. 14; Serial No. 622,404, published July 15, 1952.
Pants, Baby. M. Tredway. 565,261, Oct. 14; Serial No. 613,576, published July 8, 1952.
Playsuits and pajamas, Children's. Famous Bathrobe Co., Inc. 565,356, Oct. 14; Serial No. 622,530, published July 15, 1952.
Shirts, Dress and negligee. Wachusett Shirt Company. 298,270, renewed Oct. 18, 1952. O. G. Oct. 14.
Shoes. Craddock-Terry Co. 298,459, renewed Oct. 25, 1952. O. G. Oct. 14.
Shoes, Men's, women's, and children's. M. J. Markell. 299,424, renewed Dec. 6, 1952. O. G. Oct. 14.
Slips, negligees, negligee ensembles, etc., Ladies' and misses'. S. Landau. 565,374, Oct. 14; Serial No. 623,421, published July 8, 1952.
Underwear, union suits, knitted outer shirts, etc., Knitted. Stettheimer Co. 565,230, Oct. 14; Serial No. 608,179, published July 15, 1952.
Underwear, Ladies'. Allen Underwear Manufacturing Co., Inc. 565,254, Oct. 14; Serial No. 611,749, published Mar. 11, 1952.
Underwear, Men's and boys'. Cooper's, Incorporated. 565,351, Oct. 14; Serial No. 622,380, published July 15, 1952.
Underwear, Women's. Fort Schuyler Knitting Company. 565,235, Oct. 14; Serial No. 608,866, published July 22, 1952.
Wearing apparel, Women's and girls'. Russeks Fifth Avenue, Inc. 565,223, Oct. 14; Serial No. 606,192, published July 22, 1952.

CLASS 42

Blankets. Shuler & Benninghofen. 565,337, Oct. 14; Serial No. 621,585, published July 22, 1952.
Curtains, Shower, and window drapes and waterproofed fabrics in the piece. I. B. Kleinert Rubber Company. 321,826, Feb. 19, 1935. Republished Oct. 14.
Fabric in the piece, Cotton. Chicopee Mills, Inc. 565,327, Oct. 14; Serial No. 620,800, published July 22, 1952.
Fabric, Matellasse. Lee Fabric Corporation. 565,269, Oct. 14; Serial No. 614,209, published July 22, 1952.
Fabric woven of paper. Southern Mills, Inc. 565,245, Oct. 14; Serial No. 610,527, published July 22, 1952.
Fabrics. The Duplan Corporation. 565,334, Oct. 14; Serial No. 621,507, published July 22, 1952.
Fabrics. U. S. Manufacturing Corporation. 297,892, renewed Oct. 4, 1952. O. G. Oct. 14.
Fabrics, Elastic. United Elastic Corporation. 298,698, renewed Nov. 1, 1952. O. G. Oct. 14.
Fabrics, Knitted and woven. Dy-Co Mills, Inc. 565,321–2, Oct. 14; Serial Nos. 620,148–9, published July 22, 1952.
Fabrics, Textile. Brand & Oppenheimer Incorporated. 565,341, Oct. 14; Serial No. 621,940, published July 22, 1952.
Fabrics, Upholstery. Collins & Aikman Corporation. 565,368, Oct. 14; Serial No. 623,185, published July 22, 1952.
Piece goods, Cotton. Avondale Mills. 565,339, Oct. 14; Serial No. 621,855, published July 22, 1952.
Piece goods, Cotton. Hockmeyer Bros., Inc. 290,959, renewed Jan. 19, 1952. O. G. Oct. 14.
Piece goods, Woolen. Miron Mills, Inc. 565,384, Oct. 14; Serial No. 626,099, published July 22, 1952.
Rugs, Woven. G. J. Kluyskens. 565,304, Oct. 14; Serial No. 619,299, published July 22, 1952.

CLASS 43

Thread and yarns, Cotton. Groves Thread Company, Inc. 298,564, renewed Nov. 1, 1952. O. G. Oct. 14.
Yarn, Knitting. McComb Manufacturing Company. 565,291, Oct. 14; Serial No. 616,959, published July 1, 1952.
Yarns. Aberfoyle Manufacturing Company. 565,369, Oct. 14; Serial No. 623,230, published July 15, 1952.
Yarns, Botany Mills, Inc. 565,370, Oct. 14; Serial No. 623,233, published July 1, 1952.
Yarns, Rayon. American Enka Corporation. 565,161, Oct. 14; Serial No. 531,001, published July 1, 1952.

CLASS 44

Acrylic resin for dental uses. Gebr. de Trey, Aktiengesellschaft. 565,303, Oct. 14; Serial No. 619,013, published July 22, 1952.
Artificial teeth, dental wax, dental foil, etc. The Dentists' Supply Company of New York. 565,182, Oct. 14; Serial No. 576,315, published July 22, 1952.
Chemically treated pads. Vienna Beauty Products Co. 565,260, Oct. 14; Serial No. 612,878, published July 22, 1952.
Custom made porcelain caps or crowns and porcelain bridgework, etc. P. Rothwell. 565,324, Oct. 14; Serial No. 620,436, published July 22, 1952.
Pads and blankets for therapeutic uses, Electrically-heated. Battle Creek Equipment Company. 565,165, Oct. 14; Serial No. 549,411, published July 22, 1952.
Radioscopes, radiographs and X-ray units. L. Gleize-Rambal. 565,162, Oct. 14; Serial No. 533,804, published July 22, 1952.
Respirator and mask attachments. Willson Products, Inc. 565,358, Oct. 14; Serial No. 622,571, published July 22, 1952.

CLASS 46

Anchovy paste. C. Osborn & Co. Limited. 565,422, Oct. 14; Serial No. 615,568.
Biscuit. National Biscuit Company. 86,926, re-renewed June 11, 1952. O. G. Oct. 14.
Biscuit. National Biscuit Company. 86,929, re-renewed June 11, 1952. O. G. Oct. 14.
Biscuits, and wafers or cookies or cakes. Van Melle's Biscuits- en Toffeefabrieken N. V. 565,215, Oct. 14; Serial No. 602,235, published July 22, 1952.
Bread. Eddy Bakeries, Inc. 565,177, Oct. 14; Serial No. 570,813, published July 22, 1952.
Butter, shell eggs, cheese, etc. Swift & Company. 565,205, Oct. 14; Serial No. 595,569, published July 22, 1952.
Candies. The O. P. Baur Confectionery Company. 565,401, Oct. 14; Serial No. 576,895.
Candy bars. R. Alderson. 565,289, Oct. 14; Serial No. 616,068, published Nov. 20, 1951.
Canned fish and canned shellfish. Parrott & Co. 565,244, Oct. 14; Serial No. 610,521, published July 22, 1952.
Canned food products. Hershel California Fruit Products Co. 565,166, Oct. 14; Serial No. 549,929, published July 15, 1952.

Canned salmon. Columbia River Packers Association, Inc. 565,234, Oct. 14; Serial No. 608,785, published Feb. 5, 1952.

Canned salmon. Columbia River Packers Association, Inc. 565,250, Oct. 14; Serial No. 611,408, published Feb. 12, 1952.

Canned tomatoes. M. P. Brothers Co. 565,236, Oct. 14; Serial No. 608,915, published July 8, 1952.

Canned vegetables. Consumers Cooperative Association. 565,398, Oct. 14; Serial No. 567,390.

Canned vegetables. Eastern Shore Canning Co., Inc. 565,397, Oct. 14; Serial No. 567,339.

Canned vegetables. Victor Food Corporation. 565,237, Oct. 14; Serial No. 608,965, published July 15, 1952.

Canned vegetables, candy, coffee, etc. Paul Bunyan Foods, Inc. 565,195, Oct. 14; Serial No. 588,785, published July 22, 1952.

Cheddar cheese and limburger cheese. The Borden Company. 565,340, Oct. 14; Serial No. 621,939, published July 15, 1952.

Cheese. Societe Anonyme des Caves & des Producteurs Reunis de Roquefort. 297,591, renewed Sept. 20, 1952. O. G. Oct. 14.

Chicken cream of potato soup, old fashioned chicken fricassee, etc. Diplomat Products, Inc. 295,004, renewed June 14, 1952. O. G. Oct. 14.

Chicken cream of potato soup, old fashioned chicken fricassee, etc. Diplomat Products, Inc. 295,068, renewed June 14, 1952. O. G. Oct. 14.

Chickens, Frozen eviscerated. Southern States Cooperative, Incorporated. 565,181, Oct. 14; Serial No. 576,020, published July 15, 1952.

Chili powder, chili pods, stick cinnamon, etc. G. A. Rogers. 565,282, Oct. 14; Serial No. 615,501, published July 22, 1952.

Cocoa. Hershey Chocolate Corporation. 565,380, Oct. 14; Serial No. 624,336, published July 15, 1952.

Cocoa, chocolate, and cocoabutter. C. J. van Houten & Zoon. 294,707, renewed June 7, 1952. O. G. Oct. 14.

Cocoanut, Prepared, cake flour, pancake flour, etc. The Grocers & Producers Co. 294,723, renewed June 7, 1952. O. G. Oct. 14.

Confections-on-sticks, Frozen, liquid syrups and dry powdered concentrates. Joe Lowe Corporation. 565,421, Oct. 14; Serial No. 612,659.

Cookies. Robert A. Johnston Company. 565,288, Oct. 14; Serial No. 615,981, published July 22, 1952.

Corn chips. Filler Products, Inc. 565,242, Oct. 14; Serial No. 610,317, published July 22, 1952.

Corn meal, Table, and all kinds of grain feed for live stock and poultry feed, and dog food. The Herrman-McLean Company. 565,199, Oct. 14; Serial No. 590,979, published July 15, 1952.

Crackers, Snack. H. Meltzer. 565,163, Oct. 14; Serial No. 544,748, published July 15, 1952.

Dairy products. Milk Producers Marketing Company. 565,208, Oct. 14; Serial No. 597,772, published July 22, 1952.

Date and nut bars. Zion Industries, Inc. 565,204, Oct. 14; Serial No. 593,898, published July 22, 1952.

Dry milk solids, Spray process nonfat, roller process nonfat dry milk solids, and spray whole milk powder. Dairy Belle Foods, Inc. 565,183, Oct. 14; Serial No. 578,574, published June 24, 1952.

Egg whites. Mars, Incorporated. 298,138, renewed Oct. 11, 1952. O. G. Oct. 14.

Egg yolks. Mars, Incorporated. 298,139, renewed Oct. 11, 1952. O. G. Oct. 14.

Eggs, Fresh. R. G. Marriott. 565,326, Oct. 14; Serial No. 620,518, published June 17, 1952.

Eggs, Whole. Mars, Incorporated. 298,137, renewed Oct. 11, 1952. O. G. Oct. 14.

Feed for horses. Capper Laboratories. 565,252, Oct. 14; Serial No. 611,639, published July 22, 1952.

Feed, Livestock. G. E. Conkey Co. 565,164, Oct. 14; Serial No. 545,826, published July 22, 1952.

Feed, Poultry and live stock. Staley Milling Company. 565,332, Oct. 14; Serial No. 621,107, published June 17, 1952.

Feeds. Forncliff Feed & Grain Co. 565,189, Oct. 14; Serial No. 584,487, published Dec. 25, 1951.

Fig bars, Chocolate. Zion Industries, Inc. 565,203, Oct. 14; Serial No. 593,897, published July 22, 1952.

Fishballs. Mother's Food Products, Inc. 565,172, Oct. 14; Serial No. 562,270, published July 15, 1952.

Fish, Frozen. Seafood Packers Inc. 565,218, Oct. 14; Serial No. 604,412, published July 22, 1952.

Flour, Wheat. Pillsbury Mills, Inc. 565,190, Oct. 14; Serial No. 585,186, published July 22, 1952.

Food for livestock. Universal Mills. 565,178, Oct. 14; Serial No. 571,768, published July 15, 1952.

Gelatin dessert and gelatin aspic. Royal Baking Powder Company. 298,504, renewed Oct. 25, 1952. O. G. Oct. 14.

Goods in cans, bottles and jars. Downing Taylor Company. 565,210, Oct. 14; Serial No. 598,167, published July 15, 1952.

Goods in cans, bottles, jars and packages. Downing Taylor Company. 565,209, Oct. 14; Serial No. 598,166, published July 8, 1952.

Grains, Distillers dried. Schenley Products Company. 353,571, Jan. 11, 1938. Republished Oct. 14.

Grapes, Fresh, deciduous fruits, fresh vegetables, etc. Paul A. Mosesian & Sons, Inc. 392,192, Dec. 16, 1941. Corrected. O. G. Oct. 14.

Grapes, Fresh, fresh deciduous fruits, fresh citrus fruits, etc. Paul A. Mosesian & Sons, Inc. 355,192, Mar. 8, 1938. Corrected. O. G. Oct. 14.

Ham, Cooked. Netherland American Trading Corporation. 565,419, Oct. 14; Serial No. 605,326.

Ice cream, Sugarless imitation. Ultramix Corporation. 565,233, Oct. 14; Serial No. 608,575, published July 15, 1952.

Milk powder, Skimmed. Dairy Products Company, Inc. 565,224, Oct. 14; Serial No. 606,368, published July 22, 1952.

Olive oil. Olive Oil Industry, Inc. 565,188, Oct. 14; Serial No. 583,168, published July 15, 1952.

Oysters, Fresh. H. C. Rowe & Co. 84,682, re-renewed Dec. 26, 1951. O. G. Oct. 14.

Poultry, Dressed. Winn & Lovett Grocery Company. 565,276, Oct. 14; Serial No. 614,860, published July 22, 1952.

Poultry, Dressed, fresh eggs, and frozen eggs. Vlias & Company. 565,357, Oct. 14; Serial No. 622,568, published July 22, 1952.

Product for use as a poultry stuffing and meat dressing. L. L. Moulton. 565,280, Oct. 14; Serial No. 615,186, published July 15, 1952.

Ravioli, grated cheese, prepared spaghetti, etc. M & C Foods, Inc. 565,300, Oct. 14; Serial No. 618,459, published July 22, 1952.

Salad dressing. Lisa's Food Product Company. 565,352, Oct. 14; Serial No. 622,393, published July 22, 1952.

Salad dressings, mayonnaise, relish sandwich spread, etc. The Best Foods, Inc. 565,259, Oct. 14; Serial No. 612,583, published July 22, 1952.

Salad oil. Clinton Foods Inc. 565,217, Oct. 14; Serial No. 602,437, published July 22, 1952.

Salt substitute used for food purposes. International Minerals & Chemical Corporation. 565,265, Oct. 14; Serial No. 613,993, published July 15, 1952.

Sauce (soy). Genba Tanaka Kaijogori. 86,674, re-renewed May 21, 1952. O. G. Oct. 14.

Sea food sauce. J. Tarasi. 565,279, Oct. 14; Serial No. 615,144, published July 22, 1952.

Shortening, Margarine type. The Miami Margarine Company. 565,271, Oct. 14; Serial No. 614,309, published July 1, 1952.

Tea. B. F. Lerch. 565,226, Oct. 14; Serial No. 606,923, published July 22, 1952.

Tomatoes. Tom-A-Toe Produce Co., Inc. 565,228, Oct. 14; Serial No. 607,272, published July 22, 1952.

Vegetable oil, Processed deodorized edible. The Procter & Gamble Company. 565,381, Oct. 14; Serial No. 624,658, published June 17, 1952.

Vegetable oils, Edible. A. E. Staley Manufacturing Company. 565,336, Oct. 14; Serial No. 621,532, published Apr. 1, 1952.

Wheat-flour. The Portland Flouring Mills Company. 88,948, re-renewed Oct. 29, 1952. O. G. Oct. 14.

CLASS 47

Claret-wine. The California Wine Association. 82,960, re-renewed Aug. 8, 1951. O. G. Oct. 14.

Wines. Ellena Brothers. 565,429, Oct. 14; Serial No. 618,569.

CLASS 49

Vermouth, cocktails, liquors, etc. Martini & Rossi S. A. 299,161, renewed Nov. 22, 1952. O. G. Oct. 14.

Whiskey. George Benz Sons Inc. 309,130, Jan. 2, 1934. Republished Oct. 14.

Whiskey. Chapin & Gore, Inc. 343,385, Feb. 16, 1937. Republished Oct. 14.

Whiskey. Hiram Walker & Sons, Inc. 339,939, Oct. 27, 1936. Republished Oct. 14.

Whisky, Irish malt. The Old Bushmills Distillery Co., Ltd. 86,825, re-renewed June 4, 1952. O. G. Oct. 14.

Whisky, Scotch. D. & J. McCallum, Ltd. 298,322, renewed Oct. 25, 1952. O. G. Oct. 14.

Whiskey, gin and brandy. Schenley Products Company. 347,148, June 15, 1937. Republished Oct. 14.

CLASS 50

Artificial leather. Uni-Mark, Inc. 565,246, Oct. 14; Serial No. 610,809, published July 1, 1952.

Bonding kits comprising preformed bonds, welders, flint guns, etc. Dresser Industries, Inc. 565,251, Oct. 14; Serial No. 611,506, published July 22, 1952.

Cardboard model furniture cut-outs. Bing & Bing, Inc. 565,255, Oct. 14; Serial No. 612,381, published July 22, 1952.

Coated fabrics and resinous sheet material. Textileather Corporation. 565,267, Oct. 14; Serial No. 614,072, published July 22, 1952.

Felts for paper machinery, felts for fabric processing machinery, etc. Asten-Hill Mfg. Co. 565,169–70, Oct. 14; Serial Nos. 560,597–8, published June 24, 1952.

Hand grips for manually operated handles. Hungerford Plastics Corporation. 565,193, Oct. 14; Serial No. 588,094, published July 15, 1952.

Mats, Rubber. The Campomat Rubber Co., Inc. 565,307, Oct. 14; Serial No. 619,497, published July 8, 1952.

Plastic coated sheets. Golding Bros. Company, Inc. 565,186, Oct. 14; Serial No. 580,058, published Apr. 22, 1952.

CLASS 51

Antiperspirant, Body, and deodorant preparations. Jules Montenier, Inc. 565,399, Oct. 14; Serial No. 569,086.

Cosmetic preparations. Jules Montenier. 565,350, Oct. 14; Serial No. 622,267, published July 22, 1952.

Dry powdered preparations or concentrated liquids, jellies, pastes, and powders which upon mixing with water or a liquid organic solvent will form face creams, etc. Chemical Concentrates, Inc. 565,216, Oct. 14; Serial No. 602,248, published July 22, 1952.

Hair tinting and coloring preparations. Clairol Incorporated. 565,410, Oct. 14; Serial No. 597,813.

Lotions, Toilet. H. M. Musser. 565,346, Oct. 14; Serial No. 622,087, published July 22, 1952.

Perfume, eau parfumee and talcum powder. Bourjois, Inc. 394,118, Mar. 17, 1942. Republished Oct. 14.

Perfumes, toilet waters, face lotions, etc. Vigny, Inc. 565,420, Oct. 14; Serial No. 607,059.

Talcum powder, colognes, and lipsticks. Lucien Lelong, Inc. 565,185, Oct. 14; Serial No. 579,281, published Aug. 5, 1952.

CLASS 52

Chemically treated saturated saw dust contained in tin cans used to dry clean and wash carpets, etc. E. S. McCann and Son, Inc. 565,270, Oct. 14; Serial No. 614,307, published July 22, 1952.

Cleaner, Fabric, cleaner for removing dirt and other foreign matter from painted surfaces of automotive vehicles, etc. Packard Motor Car Company. 565,176, Oct. 14; Serial No. 570,117, published July 22, 1952.

Cleaner, Liquid metal. Empire Chemical Company, Inc. 565,349, Oct. 14; Serial No. 622,208, published July 22, 1952.

Cleanser. J. W. Bullen. 296,324, renewed Aug. 2, 1952. O. G. Oct. 14.

Cleansing compositions. Virginia-Carolina Chemical Corporation. 565,241, Oct. 14; Serial No. 609,706, published July 22, 1952.

Detergent, Absorbent. The Pennsylvania Salt Manufacturing Company. 565,253, Oct. 14; Serial No. 611,716, published July 22, 1952.

Detergent and dry cleaning compound. Emery Industries, Inc. 565,287, Oct. 14; Serial No. 615,922, published July 22, 1952.

Detergent concentrate, General. Peck's Products Company. 565,383, Oct. 14; Serial No. 625,027, published July 22, 1952.

Detergents. Finger Lakes Chemical Company, Inc. 565,376, Oct. 14; Serial No. 623,756, published July 22, 1952.

Dry cleaning solvents. The Asiatic Petroleum Company, Limited. 295,441, renewed July 5, 1952. O. G. Oct. 14.

Soap, Floor scrubbing. Creco Company, Inc. 297,154, renewed Sept. 6, 1952. O. G. Oct. 14.

Soap, Liquid. Creco Company, Inc. 296,765, renewed Aug. 23, 1952. O. G. Oct. 14.

Soap powder, Synthetic. Sears, Roebuck and Co. 565,263, Oct. 14; Serial No. 613,734, published July 22, 1952.

Soap, Powdered hand. West Disinfecting Company. 565,249, Oct. 14; Serial No. 611,165, published July 22, 1952.

Soap, Toilet. Bourjois, Inc. 310,371, Feb. 20, 1934. Republished Oct. 14.

CLASS 100

Advancement of medical science and establishing and maintaining membership in the organization. Alpha Kappa Kappa Fraternity. 565,395, Oct. 14; Serial No. 590,573, published July 22, 1952.

Collecting through research, study, investigation, etc., information in the field of scientific management, etc. The Society for the Advancement of Management, Inc. 565,391, Oct. 14; Serial No. 597,849, published July 22, 1952.

Cutting of women's hair. V. Isbell. 565,436, Oct. 14; Serial No. 580,788.

Establishment and maintenance of membership in a national collegiate sorority. Alpha Omicron Pi. 565,396, Oct. 14; Serial No. 604,134, published July 22, 1952.

Renting on a contract basis electric meat saws and slicers, etc. Atlantic Service Co., Inc. 565,388, Oct. 14; Serial No. 578,188, published July 22, 1952.

CLASS 101

Printing and engraving. W. M. Sanner. 565,435, Oct. 14; Serial No. 578,942.

CLASS 104

Radio program broadcasting services. Columbia Broadcasting System, Inc. 565,434, Oct. 14; Serial No. 545,082.

CLASS 106

Finishing hosiery. Rex Hosiery Finishers, Inc. 565,392–3, Oct. 14; Serial Nos. 606,086–7, published July 22, 1952.

CLASS 107

Lecturing on experiences, places, and events of interest throughout the world. World Adventure Series, Incorporated. 565,389, Oct. 14; Serial No. 586,831, published July 22, 1952.

Radio broadcasting. Sundial Broadcasting Corporation. 565,405, Oct. 14; Serial No. 588,152.

Recording sound in synchronism with the photographing of motion pictures. Jerry Fairbanks, Inc. 565,390, Oct. 14; Serial No. 595,832, published July 22, 1952.

Vocal and instrumental musical entertainment services. G. Greenwell. 565,394, Oct. 14; Serial No. 608,161, published July 22, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 14TH DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Barney, Harold L., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Control of impedance of semiconductor amplifier circuits. Re. 23,563, Oct. 14.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Barney, Harold L.

Floeter, Adalene E., administratrix: *See*—
Waack, Ervin V., and Floeter.

Floeter, Edward J.: *See*—
Waack, Ervin V., and Floeter.

Hobson, John R., West Hartford, assignor to Plax Corporation, Hartford, Conn. Multiple cavity mold. Re. 23,564, Oct. 14.

Plax Corporation assignee: *See*—
Hobson, John R.

Waack, Ervin V., Saginaw, Mich., and E. J. Floeter, deceased, Saginaw, Mich., by A. E. Floeter, administratrix, Bay Port, Mich. Beet harvester. Re. 23,565, Oct. 14.

LIST OF PLANT PATENTEES

Coates, Leonard, Nurseries, Inc., assignee: *See*—
Marken, Harry L. and W. J.

Howard, Arthur P., Sierra Madre, assignor to Howard & Smith, Montebello, Calif. Rose plant. 1,136, Oct. 14.

Howard & Smith, assignee: *See*—
Howard, Arthur P.

Marken, Harry L. and W. J., Morgan Hill, assignors to Leonard Coates Nurseries, Inc., San Jose, Calif. Raphiolepis plant. 1,138, Oct. 14.

Marken, William J.: *See*—
Marken, Harry L. and W. J.

Wheeler, Rufus L., Macon, Ga. Camellia plant. 1,137, Oct. 14.

LIST OF DESIGN PATENTEES

Ansehl, Harry P., University City, Mo. Cosmetic jar. 167,921, Oct. 14.

Bendix Aviation Corporation, assignee: *See*—
Erskine, Donal G., Jr.

Berger, C. L., & Sons, Inc., assignee: *See*—
Churgin, Leopold, and Grundberg.

Bigley, Alfred V., Albany, N. Y. Deck of playing cards. 167,923, Oct. 14.

Bisharat, Victor H., Berkeley, Calif. Candelabrum. 167,924, Oct. 14.

Bjornstad, Olin: *See*—
Grindstad, George M.

Blauvelt, Helen S., Montclair, N. J. Cosmetic box. 167,922, Oct. 14.

Cameron, Ewan, Jr., Clinton, Mass. Flashlight casing. 167,925, Oct. 14.

Chrysler Corporation, assignee: *See*—
King, Henry T.

Churgin, Leopold, New York, N. Y., and D. N. Grundberg, Stoneham, assignors to C. L. Berger & Sons, Inc., Boston, Mass. Surveying instrument. 167,926, Oct. 14.

Cohn, Herman M., Rochester, N. Y. Display stand. 167,927, Oct. 14.

Coward, Samuel H., Jr., Jacksonville, Fla., assignor to Liberty Glass Company, Sapulpa, Okla. Mailbox. 167,928, Oct. 14.

Doe, Walter P.: *See*—
Fisher, Herman G., Doe, and Sly.

Doe, Walter P., assignor to Fisher-Price Toys, Inc., East Aurora, N. Y. Toy dog or the like. 167,929, Oct. 14.

Dribnack, Andrew S., Binghamton, N. Y. Aquarium light fixture. 167,930, Oct. 14.

Dworkin, Louis H., Philadelphia, Pa. Combination cooky jar and bank. 167,931, Oct. 14.

Errill, Frederick F., Tuckahoe, assignor, by mesne assignments, to Home Decorators, Inc., Newark, N. Y. Dinner plate. 167,932, Oct. 14.

Erskine, Donal G., Jr., Baltimore County, assignor to Bendix Aviation Corporation, Baltimore, Md. Instrument for measuring humidity and temperature. 167,933, Oct. 14.

Fisher, Herman G., W. P. Doe, and L. W. Sly, East Aurora, N. Y. Figure trundle toy. 167,934, Oct. 14.

Fisher-Price Toys, Inc., assignee: *See*—
Doe, Walter P.

Flato, Paul E., assignor to Paul Flato Sales Corporation, New York, N. Y. Compact or similar article. 167,935, Oct. 14.

Flato, Paul Sales Corporation, assignee: *See*—
Flato, Paul E.

Folley, Donald E., Fayetteville, assignor to Onondaga Pottery Company, Syracuse, N. Y. Cup. 167,936, Oct. 14.

Friedel, Elizabeth, New York, N. Y. Pencil holder. 167,937, Oct. 14.

Goldsmith, Lou, Handbag Corp., assignee: *See*—
Stucker, Leslie L.

Grindstad, George M., Verona, assignor of one-half to O. Bjornstad, Madison, Wis. Trailer door fastener. 167,938, Oct. 14.

Grossman, Max, Jersey City, N. J. Frame handbag. 167,939, Oct. 14.

Grundberg, Donald N.: *See*—
Churgin, Leopold, and Grundberg.

Hofgesang, James M., San Francisco, Calif. Chair. 167,940, Oct. 14.

Home Decorators, Inc., assignee: *See*—
Errill, Frederick F.

International Engineering, Inc., assignee: *See*—
McElroy, Roy H.

Jacoby-Bender, Inc., assignee: *See*—
Rodriguez, Emil.

Jamison, Alfred R., Quantico, Va. Golf club head. 167,941, Oct. 14.

Jones, Maurice W., Baytown, Tex. Silverware placemat. 167,942, Oct. 14.

King, Henry T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Grille bar for an automobile. 167,943, Oct. 14.

Kolenda, Edward R., Oak Lawn, and V. V. Postillion, Cicero, Ill. Utility clip for automobiles. 167,944, Oct. 14.

Larson, Tage, Milwaukee, Wis. Height record chart. 167,945, Oct. 14.

Liberty Glass Company, assignee: *See*—
Coward, Samuel H., Jr.

Liblick, Al A., Monterey Park, Calif. Silverware holder 167,946, Oct. 14.

McElroy, Roy H., assignor to International Engineering, Inc., Dayton, Ohio. Muller. 167,947, Oct. 14.

McKenna, Edward J., St. Louis, Mo. Combined display fixture and container. 167,948, Oct. 14.

Munising Wood Products Co., Inc., assignee: *See*—
Simpson, Thomas H.

National Brush Company, assignee: *See*—
Porter, Clyde A.

Onondaga Pottery Company, assignee: *See*—
Folley, Donald E.
Vreeland, Peggy S.

Packard, Virgil S., San Francisco, Calif. Game board. 167,949, Oct. 14.

Porter, Clyde A., assignor to National Brush Company, Aurora, Ill. Brush for kitchen utensils or the like. 167,950, Oct. 14.

Porter, Clyde A., assignor to National Brush Company, Aurora, Ill. Clothesbrush or the like. 167,951, Oct. 14.

Postillion, Victor V.: *See*—
Kolenda, Edward R., and Postillion.

Rabinowitz, Isidor, Philadelphia, Pa. Stocking. 167,952, Oct. 14.

Rockola, David C., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Cabinet for a phonograph remote-control unit. 167,953, Oct. 14.
Rock-Ola Manufacturing Corporation, assignee: *See*—
Rockola, David C.
Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 167,954, Oct. 14.
Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 167,955, Oct. 14.
Ronzoni, Angelo, Great Neck, assignor to Ronzoni Macaroni Co. Inc., Long Island City, N. Y. Macaroni. 167,956, Oct. 14.
Ronzoni Macaroni Co. Inc., assignee: *See*—
Ronzoni, Angelo.
Simpson, Thomas H., assignor to Munising Wood Products Co., Inc., Chicago, Ill. Serving tray. 167,957, Oct. 14.
Sly, Leslie W.: *See*—
Fisher, Herman G., Doe, and Sly.
Snyder, Samuel L., Mill City, Pa. Corner rack. 167,958, Oct. 14.
Stucker, Leslie L., Bronx, assignor to Lou Goldsmith Handbag Corp., New York, N. Y. Lady's handbag or the like. 167,959, Oct. 14.
Tuteur, Marianne, New York, N. Y. Animal figure or the like. 167,960, Oct. 14.
Vervuurt, Etienne L., Caracas, Venezuela. Deck of playing cards. 167,961, Oct. 14.
Vreeland, Peggy S., Westfield, N. J., assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 167,962, Oct. 14.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 14TH DAY OF OCTOBER, 1952

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Abel, George G.: *See*—
Swerdlow, Nathan, and Abel.
Abrahamson, Charles M., Aurora, Ill., assignor to All-Steel Equipment Inc. Typewriter support for desks. 2,614,011, Oct. 14.
Ackley, Warren C., assignee: *See*—
Arnold, Junior K.
Adams, Robert T., Chatham, N. J., and J. A. Wagner, Cleveland Heights, Ohio, assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for advancing electrical cordage. 2,613,426, Oct. 14.
Adams, Robert T., Chatham, N. J., and J. A. Wagner, Cleveland Heights, Ohio, assignors to Western Electric Company, Incorporated, New York, N. Y. Article forming apparatus. 2,613,427, Oct. 14.
Admiral Corporation, assignee: *See*—
Morton, Evans T.
Ahrens, Fredrick J., Oakland, Calif. Weaving loom. 2,613,691, Oct. 14.
Akobjanoff, Lev, St. Louis, Mo. Metallo-thioplasts. 2,614,097, Oct. 14.
Aktiebolaget Addo, assignee: *See*—
Saimivuori, Johannes E.
Alberts, Lawrence E., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Aircraft control apparatus. 2,614,236, Oct. 14.
Alexander, Donald F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Direct current motor control. 2,614,238, Oct. 14.
Allen & Hanburys Limited, assignee: *See*—
Woodhall, Harold.
Allen, William M., Glendale, assignor to Model Crafters Inc., Hamilton, Ohio. Preparing dough for baking. 2,613,620, Oct. 14.
All-Steel Equipment Inc., assignee: *See*—
Abrahamson, Charles M.
Almquist, Nils T., assignor to Landers, Frary & Clark, New Britain, Conn. Electric flatiron. 2,613,459, Oct. 14.
Aluminum Company of America, assignee: *See*—
Bobb, Russell V., and Brunger.
American Crop-Drying Equipment Company, assignee: *See*—
Andersen, Arthur A., and Mathews.
American Cyanamid Company, assignee: *See*—
Lundberg, Lennart A.
American MonoRail Company, The, assignee: *See*—
Simon, Andrew B.
American Pop Corn Company, assignee: *See*—
Smith, Howard C.
American Steel Foundries, assignee: *See*—
Baselt, Walter H.
American Viscose Corporation, assignee: *See*—
Heffelfinger, Robert D.
Roberts, Ingham S.
Walmsley, Leslie L.
Amico, Joseph A., Rochester, N. Y. Arch support. 2,613,455, Oct. 14.
Amico, Joseph A., Rochester, N. Y. Arch support and metatarsal pad. 2,613,456, Oct. 14.
Amity Leather Products Co., assignee: *See*—
Jeffery, David B.
Anaconda Wire and Cable Company, assignee: *See*—
Benton, William H., Jr.
Greenfield, Eugene W., and Widmer.
Andersen, Arthur A., Crystal Lake, and B. C. Mathews, Chicago, assignors to American Crop-Drying Equipment Company, Crystal Lake, Ill. Crop drier and unloader. 2,613,452, Oct. 14.
Anderson, Arvid J.: *See*—
Anderson, Enfred W. and A. J.
Anderson, Enfred W. and A. J., Norway, Mich. Folding chair. 2,613,729, Oct. 14.
Anderson, Enfred W. and A. J., Norway, Mich. Folding chair. 2,613,730, Oct. 14.
Anderson, Eugene J., New Orleans, La., assignor to Rheem Manufacturing Company, Richmond, Calif. Apparatus for processing surfaces of cylindrical articles and the like. 2,613,631, Oct. 14.
Anderson, Joseph S.: *See*—
Moise, James E., Anderson, and Johnson.
Anderson, W. Carl, and S. L. Dewey, assignors to The Union Metal Manufacturing Company, Canton, Ohio. Backing clamp for trailers. 2,613,946, Oct. 14.
Anderson, Wilmer C., assignor to Deering Milliken Research Trust, Greenwich, Conn. Textile detecting device. 2,613,692, Oct. 14.
Anstalt für die Entwicklung von Erfindungen und Gewerblichen Anwendungen "Energa," assignee: *See*—
Brandt, Edgar W.
Anxionnaz, René, and R. J. Imbert, assignors to Societe Rateau (Societe Anonyme), Paris, France. Axial flow compressor. 2,613,869, Oct. 14.
Appleman, Glen, Bethlehem, Pa., assignor to W. N. Matthews Corporation, St. Louis, Mo. Fuse link. 2,614,192, Oct. 14.
Archibald, Francis M., Elizabeth, N. J., assignor to Standard Oil Development Company. Continuous settling apparatus. 2,613,811, Oct. 14.
Ardis, Alan E.: *See*—
Gilbert, Harry, and Ardis.
Armour and Company, assignee: *See*—
Keil, Havard L.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Hunrath, George.
Price, Charles C., and Roberts.
Arnold, Junior K., assignor of twenty-five per cent to W. C. Ackley and twenty-five per cent to H. V. Hardacre, Cedar Rapids, Iowa. Child's car seat. 2,613,724, Oct. 14.
Art Metal Construction Company, assignee: *See*—
Olson, Herbert H., and Johnson.
Askania Regulator Company, assignee: *See*—
Ziebolz, Herbert, Gundersen, and Baetzmann.
Atkins, Allen L.: *See*—
Hoffmann, Elmer L., and Atkins.
Attride, George R., Riverside, Calif. Apparatus for packaging frozen fruit juices. 2,613,488, Oct. 14.
Austin Motor Company Limited, The, assignee: *See*—
Avery, Raymond W., and Dangerfield.
Stanfield, James R.
Austin, William M., Needham, Mass. Gun sight. 2,613,442, Oct. 14.
Autogiro Company of America, assignee: *See*—
Pullin, Cyril G., and Shapiro.
Automatic Electric Laboratories, Inc., assignee: *See*—
Bakker, Pier.
Balzer, Harvey W., and Ostline.
Averill, Seward J., Boston, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Stabilization of vinylidene cyanide polymer solutions. 2,614,090, Oct. 14.
Avery, Raymond W., Kings Norton, and K. J. Dangerfield, Selly Oak, Birmingham, assignors to The Austin Motor Company Limited, Birmingham, England. Heat exchanger. 2,614,198, Oct. 14.
Avila, Frank W., Columbia City, Ind., assignor to International Harvester Company. Torsion-type axle suspension for tandem axle vehicles. 2,613,954, Oct. 14.
Ayers, Arnold L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Refining glyceride oil in a liquid paraffinic solvent with a concentrated alcoholic alkali metal hydroxide solution. 2,614,111, Oct. 14.
Babson Bros. Co., assignee: *See*—
Babson, Henry B.
Crawford, Thomas B.
Babson, Henry B., Chicago, Ill., assignor to Babson Bros. Co. Support for milking apparatus. 2,613,636, Oct. 14.
Backhouse, Headley T., Sunningdale, England. Sheet registering apparatus. 2,613,930, Oct. 14.
Bacon, Conrad G., Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Diffusion measuring meter. 2,613,531, Oct. 14.
Baetzmann, Robert K.: *See*—
Ziebolz, Herbert, Gundersen, and Baetzmann.
Bagley & Sewall Company, The, assignee: *See*—
Post, Arthur K.
Bahnson, Agnew H., Jr., Winston-Salem, N. C. Self-cleaning spray nozzle. 2,613,992, Oct. 14.
Ballar, John C., Jr., and R. W. Parry, Urbana, Ill., assignors to the United States of America as represented by the Secretary of the Navy. Metal chloride screening smoke mixture. 2,614,083, Oct. 14.
Bailey Company, Incorporated, The, assignee: *See*—
Bailey, David C.
Bailey, David C., assignor to The Bailey Company, Incorporated, Amesbury, Mass. Weather strip. 2,613,408, Oct. 14.
Bailey, Frank N., and R. P. Humpal, assignors to Woodward Governor Company, Rockford, Ill. Speed responsive signaling mechanism. 2,614,161, Oct. 14.
Baird, Carl E., Louisiana, Mo., and P. V. Mullins, Amarillo, Tex. Automatic cutoff valve. 2,613,683, Oct. 14.

Balsch, Stephen J., Kaukauna, and H. C. Lee, Oshkosh, assignors to Thilmany Pulp and Paper Company, Kaukauna, Wis. Paper reinforcing machine. 2,614,054, Oct. 14.

Baker, Jack M., South Peabody, Mass., assignor to General Electric Company. Multiple governing system for turbine with automatic transfer. 2,614,229, Oct. 14.

Baker Oil Tools, Inc., assignee: *See*—
Whitney, Clarle E.

Baker, Walter S., Logansport, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Forming mechanism for composite sealing strips. 2,613,720, Oct. 14.

Bakewell, G. G., assignee: *See*—
Diebel, Henry S.

Bakker, Pier, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Trunk circuit repeater. 2,614,173, Oct. 14.

Ball, Thomas M., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fuel atomizing nozzle. 2,613,997, Oct. 14.

Balzer, Harvey W., Downers Grove, and J. E. Ostline, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,614,174, Oct. 14.

Bangerter, Fred, St. Clair Shores, assignor to Herron-Zimmers Moulding Company, Detroit, Mich. Die assembly for striking tabs from moulding retainer strips or other similar workpieces. 2,613,743, Oct. 14.

Barr, Frank T., Summit, N. J., assignor to Standard Oil Development Company. Production of sulfur free water gas. 2,614,038, Oct. 14.

Barthel, Oliver E.: *See*—
Murray, Addie P., and Barthel.

Bartleson, John D., assignor to The Standard Oil Company, Cleveland, Ohio. Reaction product of an aliphatic amide and a phosphorus sulfide and lubricants containing the same. 2,614,075, Oct. 14.

Bartlett, Eleanor P., Dover-Foxcroft, Maine. Folding wheeled carrier for suitcases. 2,613,950, Oct. 14.

Baselt, Walter H., Flossmoor, assignor to American Steel Foundries, Chicago, Ill. Journal box arrangement. 2,614,008, Oct. 14.

Basic Refractories, Inc., assignee: *See*—
Rusoff, Samuel.

Battersby, James E., assignor to Masson Scott & Company Limited, London, England. Apparatus for cutting sheets from webs of carboard, paper, and the like. 2,613,741, Oct. 14.

Bauer, Edmund S., Jr., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Friction elements from the reaction product of melamine, formaldehyde and toluene sulfonamide. 2,614,091, Oct. 14.

Bauman, Jack L.: *See*—
Blaydes, Frederick T., and Bauman.

Bauman, William C., and R. McKellar, assignors to The Dow Chemical Company, Midland, Mich. Anion exchange resins. 2,614,099, Oct. 14.

Bawden, Henry H., and R. E. Jenkins, Granger, Utah. System and apparatus for handling grain. 2,613,799, Oct. 14.

Baxter, Philip, Davyhulme, Manchester, England, assignor to General Electric Company. Volt-ampere meter. 2,614,139, Oct. 14.

Bayer, Frank C.: *See*—
Noon, T Cyril, and Bayer.

Beam, Jon, Blue Ridge, Ga. Gravity buoyancy pump. 2,613,608, Oct. 14.

Bear Archery Company, assignee: *See*—
Bear, Frederick B.

Bear, Frederick B., Detroit, assignor to Bear Archery Company, Grayling, Mich. Glass fiber-reinforced archery bow. 2,613,660, Oct. 14.

Bechman, William O., Chicago, Ill., assignor to International Harvester Company. Lubricating system on track roller. 2,614,006, Oct. 14.

Becker, Harold A., La Grange, assignor to Universal Oil Products Company, Chicago, Ill. Heating of fluids. 2,613,654, Oct. 14.

Behrens, Herbert C., assignor to Diebold, Incorporated, Canton, Ohio. Insulated filing cabinet construction. 2,613,623, Oct. 14.

Bell Aircraft Corporation, assignee: *See*—
Woods, Robert J.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Dimond, Thomas L.
Edson, James O.
Edson, James O., and Kreer.
Goodall, William M.
Herborn, Ludwig E.
Kreer, John G., Jr.
Skellett, Albert M.
Vroom, Edward.

Beman, Ward W., Glendale, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Variable ratio booster system. 2,613,890, Oct. 14.

Bendix Aviation Corporation, assignee: *See*—
Campbell, William J.
Digby, James J.
Sloane, Robert W., Thomas, and Fricke.

Benton, William H., Jr., Marion, Ind., assignor to Anaconda Wire and Cable Company. Abrasion resistant electric cable. 2,614,147, Oct. 14.

Berg, Clyde H. O.: *See*—
Reed, Homer C., Berg, and Leffert.

Bergstrom, Eric V.: *See*—
Drew, Robert D., and Bergstrom.

Bettendorf Company, The, assignee: *See*—
Kottmann, Arthur A.

Biggs, John W., Sharon, Mass. Dental pad. 2,613,441, Oct. 14.

Bivens, Maurice E., Schenectady, N. Y., assignor to General Electric Company. Electric sequence and timing circuits. 2,614,240, Oct. 14.

Blackmore, Robert B., Casper, Wyo. Cutting timber and connecting the slabs. 2,613,708, Oct. 14.

Blaw-Knox Company, assignee: *See*—
Harcourt, Guy N.
Montgomery, Duncan B., and Hegg.
Shields, James R.

Blaydes, Frederick T., and J. L. Bauman, Canton, Ill., assignors to International Harvester Company. Tractor-mounted cultivator. 2,613,583, Oct. 14.

Bobb, Russell V., Mulberry, and R. G. Brunger, La Fayette, Ind., assignors to Aluminum Company of America, Pittsburgh, Pa. Making aluminum alloy tubing and product. 2,614,053, Oct. 14.

Boden, George, Waterbury, and M. V. Duell, Oakville, assignors to Scovill Manufacturing Company, Waterbury, Conn. Resilient snap hook. 2,613,422, Oct. 14.

Boden, Wendell A., Detroit, Mich. Apparatus for preparing citrus fruit. 2,613,711, Oct. 14.

Boenig, Martin E., Woodsboro, Tex. Row marker. 2,613,586, Oct. 14.

Boisvieux, Jacques, and J. Chaumeron, assignors to Societe Francaise Sadir-Carpentier, Paris, France. Pulse modulating system. 2,614,247, Oct. 14.

Bonin, Henri V. A., Paris, France. Nipple and cap construction. 2,613,671, Oct. 14.

Bone, Herbert L., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Railway track skate. 2,613,612, Oct. 14.

Borden Company, The, assignee: *See*—
Spahr, Raymond J.

Bordewieck, Robert W., Southboro, J. O. Roebuck, and N. M. Sleeper, assignors to Moore Electronic Laboratories, Incorporated, Worcester, Mass. Cathode follower photoelectric direct current amplifier circuit. 2,614,227, Oct. 14.

Borg-Warner Corporation, assignee: *See*—
Carlson, Raymond A.
Crutchley, Frederick.
Flint, Kendall H.
Mohns, Leslie F.
Polomski, John B., and Knos.

Borgerd, William F., and J. Calling, Evansville, Ind., assignors to International Harvester Company. Condensate disposal means. 2,613,514, Oct. 14.

Borgerd, William F., Evansville, Ind., assignor to International Harvester Company. Compressor cylinder head assembly. 2,613,870, Oct. 14.

Borglin, E. O., Company, assignee: *See*—
Borglin, Ernest O., and MacKenzie.

Borglin, Ernest O., Detroit, and H. D. MacKenzie, Grosse Pointe, assignors to E. O. Borglin Company, Hazel Park, Mich. Picture frame. 2,613,467, Oct. 14.

Borkland, Gustave W., Marion, Ind., assignor to Owens-Corning Fiberglas Corporation. Manufacture of molded articles. 2,613,397, Oct. 14.

Born, Paul L., Wilmette, Ill. Liquid level gauge. 2,613,535, Oct. 14.

Bortolotti, Louis: *See*—
Tenerowicz, Frank A., and Bortolotti.

Bossmeyer, Charles L., Rockford, Ill., assignor to Dictaphone Corporation, Bridgeport, Conn. Backspacing mechanism. 2,613,938, Oct. 14.

Boudreau, Philip N., Lake Megantic, Quebec, Canada. Hairpin receptacle. 2,613,859, Oct. 14.

Bowder, David H., Attleboro, Mass., assignor to Swank, Inc. Identification assembly unit. 2,613,466, Oct. 14.

Bower, Russell B.: *See*—
Nichols, Charles A., Bower, Weiser, Edwards, Fletcher, McCoy, and Sample.

Bowman, William A., Baltimore, Md. Window raising and cleaning unit. 2,613,738, Oct. 14.

Boyce, Mabel C., Danbury, Conn. Infant's gown. 2,613,359, Oct. 14.

Boyce, William S., Denver, Colo. Tie plate. 2,613,876, Oct. 14.

Boyd, Thomas, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Polymeric titanium mixed esters. 2,614,112, Oct. 14.

Brackin, Carey W.: *See*—
Healy, Judd W., and Brackin.

Brandt, Edgar W., Geneva, Switzerland, assignor to Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen "Energa," Vaduz, Liechtenstein. Projectile. 2,613,605, Oct. 14.

Breguet, Louis, and R. Devillers, Paris, France; said Devillers assignor to said Breguet. Speed and acceleration actuated power plant control means. 2,613,750, Oct. 14.

Brice, Thomas J.: *See*—
Simons, Joseph H., and Brice.

Brinkmann, Guenther, assignor to Ex-Cell-O Corporation, Detroit, Mich. Boring machine. 2,613,554, Oct. 14.

Brinkoeter, Paul H., assignor to Ed. Friedrich, Inc., San Antonio, Tex. Open top frozen food refrigerator. 2,613,508, Oct. 14.

Brinkoeter, Paul H., assignor to Ed. Friedrich, Inc., San Antonio, Tex. Refrigerator door locking and opening mechanism. 2,613,973, Oct. 14.

Bristol, John E., Niagara Falls, and N. Turnbull, Grand Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Emulsion polymerization of vinyl acetate. 2,614,088, Oct. 14.

British Soya Products Limited, assignee: *See*—
Learmonth, Eric M.

Brockway Company, The, assignee: *See*—
Richardson, James C.

Brooks, David D., Union City, Ohio. Measuring rule with opposed sliding contacts. 2,613,444, Oct. 14.

Brooks, John: *See*—
Simpson, George K., and Brooks.

Broussard, Robert F., Houston, Tex., and L. D. Sollenberger, assignors to Duncan Parking Meter Corporation, Chicago, Ill. Coin handling apparatus. 2,613,792, Oct. 14

Broussard, Robert F., Houston, Tex., and H. J. Miller, assignors to Duncan Parking Meter Corporation, Chicago, Ill. Coin handling apparatus. 2,613,871, Oct. 14.

Brousseau, Fred, Schenectady, and P. J. Brousseau, Peasleeville, N. Y. Safety valve for fluid pressure systems. 2,614,003, Oct. 14.

Brousseau, Philip J.: *See*—
Brousseau, Fred and P. J.

Brouwer, Nick J., Rock Valley, Iowa. Wheel checking device. 2,613,447, Oct. 14.

Brown, Herbert C.: *See*—
Schlesinger, Hermann L., and Brown.

Brown, Max, assignor to The Waterbury Metal Stamping Co., Waterbury, Conn. Buckle for holding ribbons. 2,613,420, Oct. 14.

Brown and Sharpe Manufacturing Company, assignee: *See*—
Weimar, Hans C.

Brown, Walter E.: *See*—
Harrison, Stuart A., and Brown.

Brown, William C., assignor to The National Cash Register Company, Dayton, Ohio. Split mechanism. 2,613,872, Oct. 14.

Brummerstedt, Egon F., assignor to Foster Wheeler Corporation, New York, N. Y. Catalyst vessel. 2,614,034, Oct. 14.

Bruner, Marvin J., assignee: *See*—
Ritter, Saul.

Brunger, Robert G.: *See*—
Bobb, Russell V., and Brunger.

Bruns, Louis E. and T. M., Hecla, S. Dak. Bale loading attachment for balers. 2,613,591, Oct. 14.

Bruns, Theodore M.: *See*—
Bruns, Louis E. and T. M.

Brush Development Company, The, assignee: *See*—
Williams, Alfred L. W.

Bryant, Leroy F., Louisville, Ky. Saddle attachment for cycle seats. 2,613,723, Oct. 14.

Bucher, Fred J., Library, Pa. Direct current circuit breaker tester. 2,614,150, Oct. 14.

Büchi, Alfred, Winterthur, Switzerland. Compressing machine such as centrifugal blower or pump. 2,613,609, Oct. 14.

Buckley, Charles W.: *See*—
Smith, Edwin K., Jr., and Buckley.

Budd Company, The, assignee: *See*—
Dean, Albert G.

Budny, Walter V., Ossining, N. Y. Pocket attached holder. 2,613,413, Oct. 14.

Buffalo Electro-Chemical Company, Inc., assignee: *See*—
McEwen, Robert L.

Burgess, L. W., assignee: *See*—
Jordan, James W.

Burke, Olliver V., Burnham, Canterbury, New Zealand. Safety razor. 2,613,436, Oct. 14.

Buschman, E. W., Co., The, assignee: *See*—
Schottelkotte, Franklin B.

Butler, Henry J., Sutton Coldfield, assignor to Dunlop Rubber Company Limited, London, England. Brake. 2,613,765, Oct. 14.

Butterfield, John P., Grosse Pointe, Woods, assignor to Chrysler Corporation, Highland Park, Mich. Piston structure. 2,614,009, Oct. 14.

Buzzell, Maurice E., Mahtomedi, Minn., and L. W. Kanninen, Wausau, Wis., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Roofing granules and making same. 2,614,051, Oct. 14.

Byrnie, Leo A., Torrington, Conn. Panel unit for radiant heating. 2,613,900, Oct. 14.

C-Eight Laboratories, assignee: *See*—
Clark, Nelson O.

Caesar, Philip D., and P. G. Waldo, Wenonah, N. J., and D. J. Crowley, Oak Ridge, Tenn., assignors to Socony-Vacuum Oil Company, Incorporated. Alkyl thiophene sulfonate wetting agents and making same. 2,614,084, Oct. 14.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. β-hydroxyalkyl diesters of dicarboxydiphenyl sulfones and preparing same. 2,614,120, Oct. 14.

California Research Corporation, assignee: *See*—
Postlewaite, William R.

Calkins, Dwight L., assignor to Calkins Manufacturing Company, Spokane, Wash. Rotary subsoiler. 2,613,585, Oct. 14.

Calkins Manufacturing Company, assignee: *See*—
Calkins, Dwight L.

Calling, John: *See*—
Borgerd, William F., and Calling.

Calling, John, Evansville, Ind., assignor to International Harvester Company. Rotation indicator for hermetically sealed motor compressor units. 2,613,628, Oct. 14.

Caltex Sportswear Co. of California, Inc., assignee: *See*—
Russell, Winifred M.

Calvert, Harry B., Boring, Oreg. Volumetric hydraulic system for precisely controlling position. 2,613,703, Oct. 14.

Cameron, Dave, York, S. C. Hay storage and feeding barn. 2,613,640, Oct. 14.

Campbell, William J., Elmira Heights, N. Y., assignor to Bendix Aviation Corporation. Coaster brake for velocipedes. 2,613,763, Oct. 14.

Canfield, Earl L., Essex, Conn. Desk lighting unit and work surface. 2,614,204, Oct. 14.

Carlson, Carl S., Elizabeth, and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Separation of mixtures containing alcohols, aldehydes, and ketones. 2,614,072, Oct. 14.

Carlson, Raymond A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Combination spring-loaded and overcenter clutch. 2,613,777, Oct. 14.

Carlson, Raymond A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Multiple friction clutch. 2,613,778, Oct. 14.

Carney, Samuel C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Method of and apparatus for liquid-liquid contacting. 2,614,064, Oct. 14.

Carniol, Bohdan, assignor of one-half to Tesla, National Corporation, Prague, Czechoslovakia. Method of and device for measuring and controlling the quality factor and damping factor of electric circuits and components thereof. 2,614,153, Oct. 14.

Carr, William H., Jr., Kansas City, Mo. Dispenser. 2,613,879, Oct. 14.

Carroll, James W., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Pickling bath foaming agent. 2,614,081, Oct. 14.

Carter Carburetor Corporation, assignee: *See*—
Coffey, Irven E.

Carter, Charles E.: *See*—
Cornell, Paul W., and Carter.

Carter, Clarence F., Danville, Ill. Apparatus for filling containers. 2,613,864, Oct. 14.

Carter, Joseph H., Jr.: *See*—
Sartoretto, Paul A., and Carter.

Cary, Rex H. J., Great Malvern, England, assignor to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland. Aerial system. 2,614,219, Oct. 14.

Catterall, William E., Elizabeth, and E. O. Ohsol, Cranford, N. J., assignors to Standard Oil Development Company. Multistage process for condensing hydrocarbon synthesis products. 2,614,115, Oct. 14.

Celanese Corporation of America, assignee: *See*—
Olpin, Henry C., and Jackson.

Champion Knitwear Company, Inc., assignee: *See*—
Friedland, Samuel N., and Feinbloom.

Chance, A. B., Company, assignee: *See*—
Hubbard, David C.

Chandler & Price Company, The, assignee: *See*—
Rupp, William C.

Chapman, William A., Lithonia, Ga. Conveyer idler. 2,613,802, Oct. 14.

Chase National Bank of the City of New York, The, executor: *See*—
Gilbert, Charles E.

Chaumeron, Jacques: *See*—
Boisvieux, Jacques, and Chaumeron.

Cheesman, John J., Gerrards Cross, England, assignor, by mesne assignments, to General Strapping Corporation, New York, N. Y. Package binding. 2,613,389, Oct. 14.

Chenicek, Joseph A., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Production of selective olefinic polymers. 2,614,137, Oct. 14.

Chilton, Roland, Glen Rock, N. J., assignor to Curtiss-Wright Corporation. Centrifugal clutch. 2,613,784, Oct. 14.

Chireix, Henri, Paris, France, assignor to Societe Francaise Radio-Electrique. Phase modulation apparatus. 2,614,245, Oct. 14.

Christ, William E., Hempstead, N. Y. Starting gate. 2,613,638, Oct. 14.

Christ, William E., Hempstead, N. Y. Starting gate. 2,613,639, Oct. 14.

Christensen, Bette J., assignor to Jantzen Knitting Mills Inc., Portland, Oreg. Woman's garment. 2,613,357, Oct. 14.

Chromatic Television Laboratories, Inc., assignee: *See*—
Lawrence, Ernest O.

Chrysler Corporation, assignee: *See*—
Ball, Thomas M.
Butterfield, John P.
Dunn, William T.
Gilfillan, Henry W.
Herreshoff, Alexander G.
Letts, John B.
Maurer, Edwin R.
Miers, Archie M.
Neracher, Carl A., and Dunn.
Newby, Charles A., and Steinbrecher.
Nims, Paul T.
Robinson, Maurice C.
Syrovy, Augustin J.

Churchill, Leonard R., Cranford, assignor to Tide Water Associated Oil Company, Bayonne, N. J. Lubricating compositions. 2,614,078, Oct. 14.

Ciba Limited, assignee: *See*—
Jenny, Walter, and Kern.

Cisco, Edward S., Highland, Ind., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Hatch skirt and insulation pan support. 2,613,616, Oct. 14.

Clark Equipment Company, assignee: *See*—
Elliott, Morris R., and Turner.
Gault, Donald W.

Clark, John W., Buffalo, N. Y. Watch hand pressing tool. 2,613,562, Oct. 14.

Clark, Nathaniel, Madison, W. Va. Car coupling. 2,613,820, Oct. 14.

Clark, Nelson O., Winthrop, assignor, by mesne assignments, to C-Eight Laboratories, New Bedford, Mass. Gaseous electric discharge device circuits. 2,614,243, Oct. 14.

Clarke, Daniel J., assignor to Stalker Development Company, Bay City, Mich. Fluid turning blade. 2,613,911, Oct. 14.

Clarke, William P. O.: *See*—
Howard, John S., Jr., and Clarke.

Clasen, John H.: *See*—
Evans, Russell T., and Clasen.

Clausen, Mads, and C. Matthiesen, Nordborg, Denmark. Pilot-operated valve. 2,613,689, Oct. 14.

Cleveland Twist Drill Company, The, assignee: *See*—
Emmons, Joseph V.

Coash, Conrad V., Chicago, Ill., assignor to The Sherwin-Williams Co., Cleveland, Ohio. Preparing DDT dispersions using carboxy methyl cellulose. 2,614,061, Oct. 14.

Coates, Norman, executor: *See*—
Gilbert, Charles E.

Coffey, Irven E., assignor to Carter Carburetor Corporation, St. Louis, Mo. Charge forming device. 2,613,658, Oct. 14.

Coffing, Frederick W., assignor to Coffing Hoist Company, Danville, Ill. Outboard mounting structure. 2,613,967, Oct. 14.

Coffing Hoist Company, assignee: *See*—
Coffing, Frederick W.

Cohen, Arnold A., Minneapolis, J. L. Hill, North St. Paul, and R. M. Kalb, Minneapolis, Minn., assignors to Engineering Research Associates, Inc., Arlington, Va. Storage and relay system. 2,614,169, Oct. 14.

Cohen, Herman, administrator: *See*—
Lenz, William J.

Cole, Lyndon C.: *See*—
Miller, Leon F., and Cole.

Coleman, Joseph A., assignor to Maiden Form Brassiere Company, Inc., New York, N. Y. Nursing brassière. 2,613,355, Oct. 14.

Coles, Otis C., Jr., El Paso, Tex. Beverage case. 2,613,839, Oct. 14.

Coles, Otis C., Jr., El Paso, Tex. Metallic cellular beverage case. 2,613,840, Oct. 14.

Collins, Douglas, Salisbury, N. C. Shelf elevating mechanism and control. 2,614,020, Oct. 14.

Collins, Edward W., Chicago, Ill. Window washing and wiping device. 2,613,384, Oct. 14.

Collins Radio Company, assignee: *See*—
Hancock, Noel W.

Commonwealth Engineering Company of Ohio, assignee: *See*—
Wenzelberger, Elwood P.

Conrad, John F., assignor to Deltron Electric Products, Inc., Ebensburg, Pa. Fused electrical connector. 2,614,190, Oct. 14.

Conrad, Owen, assignor to Metal Products Corporation, Miami, Fla. Electing means for machines for making frames. 2,613,719, Oct. 14.

Consalvi, Anthony L., Philadelphia, G. H. Webber, Conshohocken, Pa., and H. C. Lawrence, Jr., Haddonfield, N. J., assignors to Radio Corporation of America. Switch register. 2,614,181, Oct. 14.

Continuous Metalcast Corporation, assignee: *See*—
Rossi, Irving.

Cook, Dudley R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Ice-making machine. 2,613,506, Oct. 14.

Cooper, Charles, assignor to W. C. Holmes & Company Limited, Huddersfield, England. Delivery of liquids. 2,613,681, Oct. 14.

Cooper, Charles W.: *See*—
Moss, Eric B., and Cooper.

Cooper, Lester S., Columbia, Conn., assignor to Rubatex Products Inc., New York, N. Y. Making radar domes. 2,614,059, Oct. 14.

Cooper, Richard W., Hutchinson, Kans. Bottle case. 2,613,841, Oct. 14.

Cordis, Nat, Wilmot, Wis., assignor of one-half to G. L., C. H., and L. Kitson, Rockford, Mich. Automatic flock feeder. 2,613,641, Oct. 14.

Cornell, Paul W., Mount Lebanon, and C. E. Carter, Canonsburg, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Hydrodesulfurization reactor. 2,614,033, Oct. 14.

Cornell, Paul W., Mount Lebanon, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Hydrodesulfurization of petroleum hydrocarbons. 2,614,066, Oct. 14.

Cornercroft Limited, assignee: *See*—
Rycroft, Norman.

Cornett, Walter V., Los Angeles, Calif. Pavement breaking machine. 2,613,923, Oct. 14.

Corning Glass Works, assignee: *See*—
Stong, Guy E.

Cote, Amanda C., assignee: *See*—
Cote, Arthur J.

Cote, Arthur J., assignor of one-half to A. C. Cote, Clearwater, Fla. Closure operator. 2,613,928, Oct. 14.

Courchene, Theodore P., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,613,376, Oct. 14.

Covert Electric Machinery Company, assignee: *See*—
Gifford, Maurice E.

Cramer, Roy A., Kansas City, Mo. Combined foot and spring supported caster. 2,613,389, Oct. 14.

Crawford, Thomas B., Arcadia, Calif., assignor to Babson Bros. Co. Lid for suspended milkers. 2,613,637, Oct. 14.

Cremer, Michel, assignor to Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France. Air blast circuit breaker with switching resistance. 2,614,193, Oct. 14.

Crest Lock Co., Inc., assignee: *See*—
Levine, David.

Crossley, Royal E., Fayetteville, assignor to Crouse-Hinds Company, Syracuse, N. Y. Actuating mechanism for reciprocating carriages. 2,613,541, Oct. 14.

Crouse-Hinds Company, assignee: *See*—
Crossley, Royal E.
Lester, Ray F.

Crowell, Ernest M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Making inner molds. 2,613,398, Oct. 14.

Crowley, Duncan J.: *See*—
Caesar, Philip D., Waldo, and Crowley.

Crown Controls Company, Inc., assignee: *See*—
Will, Wilbert A.

Crump, Lindell L., Kirkwood, and J. T. Finley, St. Louis, Mo. Mounting for electrical switches. 2,614,148, Oct. 14.

Crutchley, Frederick, Leamington Spa, England, assignor to Borg-Warner Corporation, Chicago, Ill. Driven plate for friction clutches. 2,613,515, Oct. 14.

Cullman, Otto, assignor to Cullman Wheel Co., Chicago, Ill. Mounting for transmission gearing and guard. 2,613,544, Oct. 14.

Cullman Wheel Co., assignee: *See*—
Cullman, Otto.

Cullum, Douglas J. W., London, England. Baffle type muffler with sound absorbing material. 2,613,758, Oct. 14.

Curtis, John C., Claremont, N. H., assignor to Joy Manufacturing Company. Rock drill. 2,613,647, Oct. 14.

Curtiss-Wright Corporation, assignee: *See*—
Chilton, Roland.
Donovan, Allen F., and Hirsch.
Edelstein, Murray I.
Knight, James E.
Vaughn, Stanley I., and Tucker.
Wiegand, Francis J., Stark, and Rowe.
Young, Richard H.

Cutter Cravat, Inc., assignee: *See*—
Hirsch, Julius A.

Dahl, George W., Barrington, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass. Shaft seal. 2,613,962, Oct. 14.

Dalton, Harry, Jr., and T. M. Macario, Philadelphia, Pa. Runway marker for airports. 2,614,203, Oct. 14.

Dalton, Thomas B., assignor to Valley Research Corporation, Montague, Mich. Retractable arrow point. 2,613,936, Oct. 14.

Dangerfield, Kenneth J.: *See*—
Avery, Raymond W., and Dangerfield.

Darbee, John R., Clawson, Mich. Unversal mouthpiece for smokers' pipes. 2,613,675, Oct. 14.

Darden, Robert R., Jr.: *See*—
Karp, Harvey, Darden, and Kolodziej.

Darr, Harold W., assignor of twenty-seven and one-half per cent to M. J. Darr, twenty-two and one-half per cent to H. F. Woo, and twenty-two and one-half per cent to L. Y. Woo, Minneapolis, Minn. Carton. 2,613,867, Oct. 14.

Darr, M. Josephine, assignee: *See*—
Darr, Harold W.

Davis Brake Beam Company, assignee: *See*—
Stillwagon, Charles K.

Davis, Flavius E., III, Jackson, Mich. Photoelectric device. 2,614,226, Oct. 14.

Davis, Jack C., Charleston, W. Va. Apparatus for making structural elements for buildings. 2,613,423, Oct. 14.

Davis, James N., Crystal Lake, Ill. Radio control device. 2,613,548, Oct. 14.

Davis, Walter C., Tredyffrin Township, Chester County, Pa., assignor to The Sharples Corporation. Recovery of oil and meal from oil-bearing marine life. 2,614,110, Oct. 14.

Dawbarn, Waring L., Winchester, assignor to Arthur D. Little, Inc., Cambridge, Mass. Rotary seal for furnace tops. 2,613,826, Oct. 14.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Closure and frame construction. 2,613,406, Oct. 14.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Weather seal for closures. 2,613,617, Oct. 14.

Deering Milliken Research Trust, assignee: *See*—
Anderson, Wilmer C.

De Florez Company, Inc., The, assignee: *See*—
Smith, Edwin K., Jr., and Buckley.

De Kiraly, Paul, assignor to The Hispaniola Corporation (La Hispaniola C. P. A.), Ciudad Trujillo, Dominican Republic. Automatic sear for automatic firearms. 2,613,577, Oct. 14.

De La Mater, George B.: *See*—
Homeyer, August H., and De La Mater.

De Laval Separator Company, The, assignee: *See*—
Scott, Walter A.

Deltron Electric Products, Inc., assignee: *See*—
Conrad, John F.

Demas, Epaminondas J., North Hollywood, assignor to Triplett & Barton Inc., Burbank, Calif. Weight determining apparatus. 2,613,927, Oct. 14.

Denham, Enos M., assignor to Dodge Tool & Manufacturing Company, Grand Rapids, Mich. Flushing valve. 2,613,367, Oct. 14.

Deringer, Clifton H., Patton, Pa. Flexible bridge. 2,613,364, Oct. 14.

Deruette, Louis E., San Francisco, Calif. Flush valve. 2,613,690, Oct. 14.

Senarclens, Gérard, Breitenbach, Switzerland, assignor, by mesne assignments, to Samica Corporation Dover, Del. Treating mica. 2,614,055, Oct. 14.

Detling, Kenneth D., Berkeley, and T. Skei, Lafayette, assignors to Shell Development Company, San Francisco, Calif. Olefin oxidation process employing cuprous oxide catalysts. 2,614,125, Oct. 14.

Detroit Steel Products Company, assignee: *See*—
Gillett, William.

Dever, Otto E., Burbank, Calif. Track tread landing gear with prerotation means. 2,613,892, Oct. 14.

Devillers, René: *See*—
Breguet, Louis, and Devillers.

De Vries Robbe & Co. N. V., assignee: *See*—
Wieland, Jacob.

De Vry Corporation, assignee: *See*—
Lindberg, Arthur F.

Dewey, Sydney L.: *See*—
Anderson, W. Carl, and Dewey.

Di Addario, Thomas D., Buffalo, N. Y. Measuring vessel. 2,613,537, Oct. 14.

Diamantides, Nicholas D., assignor to The Leece-Neville Company, Cleveland, Ohio. Voltage regulating apparatus. 2,614,241, Oct. 14.

Diamond, David, Forest Hills, N. Y. Assembler slide return. 2,613,803, Oct. 14.

Dictaphone Corporation, assignee: *See*—
Bossmeyer, Charles L.

Diebel, Henry S., Downey, assignor to G. G. Bakewell, Pasadena, Calif. Steering motor for airplane landing wheels. 2,613,649, Oct. 14.

Diebold, Incorporated, assignee: *See*—
Behrens, Herbert C.

Dierbeck, John J., Milwaukee, Wis., assignor to International Harvester Company. Forming rings for bearings. 2,613,429, Oct. 14.

Digby, James J., Elmira, N. Y., assignor to Bendix Aviation Corporation. Engine starter drive. 2,613,539, Oct. 14.

Dimond, Thomas L., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Translating and selecting system. 2,614,175, Oct. 14.

Dimond, Thomas L., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic induction number group translator. 2,614,176, Oct. 14.

Dinstman, Hyman, assignor to I. D. Watch Case Co., Inc., New York, N. Y. Waterproof watchcase. 2,613,494, Oct. 14.

Dionne, John C., Chicago, Ill. Vertical split head detecting apparatus. 2,614,154, Oct. 14.

Dodge Tool & Manufacturing Company, assignee: *See*—
Denham, Enos M.

Doerner, Steve T., Chicago, Ill. Television antenna. 2,614,220, Oct. 14.

Doherty, William H., Elmhurst, N. Y. Shoe soling apparatus. 2,613,394, Oct. 14.

Dome, Robert B., Geddes Township, Onondaga County, N. Y., assignor to General Electric Company. Modulation system. 2,614,246, Oct. 14.

Donaldson, Raymond W., Lexington, assignor to The Ohio Brass Company, Mansfield, Ohio. Overhead switching system. 2,614,179, Oct. 14.

Donaldson, Raymond W., Lexington, and W. J. Lewis, assignors to The Ohio Brass Company, Mansfield, Ohio. Overhead switching system. 2,614,179, Oct. 14.

Donaldson, Raymond W., Lexington, assignor to The Ohio Brass Company, Mansfield, Ohio. Current collector head. 2,614,180, Oct. 14.

Donovan, Allen F., Kenmore, and H. Hirsch, Buffalo, N. Y., assignors to Curtiss-Wright Corporation. Helicopter control. 2,613,751, Oct. 14.

Doolittle, Waddie W., Picayune, Miss., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Marine seismic surveying. 2,614,165, Oct. 14.

Dorgelys, Henri J., Hempstead, N. Y. Fastener. 2,613,419, Oct. 14.

Dorothea, Gale, Jackson Heights, N. Y. Device for producing timed electrical impulses. 2,614,187, Oct. 14.

Dow Chemical Company, The, assignee: *See*—
Bauman, William C., and McKellar.
Reilly, John H.

Dowty Equipment Limited, assignee: *See*—
Stratford, Henry R.

Drain, Herbert D., assignor to Walter E. Selck and Co., Chicago, Ill. Mitering tool. 2,613,740, Oct. 14.

Dravo Corporation, assignee: *See*—
Nowhall, Welrose L., Willison and Stevens.

Dreesen, William R., Indianapolis, Ind. Wax powder applicator and offset eliminator. 2,613,633, Oct. 14.

Drew, Robert D., Wenonah, and E. V. Bergstrom, Short Hills, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Heater. 2,613,924, Oct. 14.

Du Bois, Le Roy, New York, N. Y. Liquid dispensing device. 2,613,851, Oct. 14.

Dudek, Gustave C., assignor to Yates-American Machine Company, Beloit, Wis. Ripsaw table having a hinged section. 2,613,699, Oct. 14.

Duell, Morgan V.: *See*—
Boden, George, and Duell.

Duncan Parking Meter Corporation, assignee: *See*—
Broussard, Robert F., and Miller.
Broussard, Robert F., and Sollenberger.

Dunlop Rim & Wheel Co. Ltd., assignee: *See*—
Wylie, Hamilton N.

Dunlop Rubber Company Limited, assignee: *See*—
Butler, Henry J.

Dunn, William T.: *See*—
Neracher, Carl A., and Dunn.

Dunn, William T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle brake. 2,613,775, Oct. 14.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Bristol, John E., and Turnbull.
Moede, Jerome A.
Schaumann, Holger H.
Swanson, Ralph G.
Turnbull, Norris.

Dur-O-Lite Pencil Company, assignee: *See*—
Merryman, Carl.

Dye, Kenneth R., Marine City, and M. Stubnitz, assignors to Stubnitz-Greene Spring Corporation, Adrian, Mich. Seat spring. 2,613,732, Oct. 14.

Eastman Kodak Company, assignee: *See*—
Caldwell, John R.

Eaton, George F., executor: *See*—
Terrill, Delmer D.

Eaton, Thomas T., Haddon Heights, N. J., assignor to Radio Corporation of America. Automatic steering system. 2,614,249, Oct. 14.

Ebert, Edward A., Snyder, N. Y. Aerated bait container. 2,613,472, Oct. 14.

Eclipse Air Brush Co., assignee: *See*—
MacWilliam, Wallace.

Edelstein, Murray I., Columbus, Ohio., assignor to Curtiss-Wright Corporation. Low precession gyroscope. 2,613,538, Oct. 14.

Edson, James O., Warren Township, Somerset County, and J. G. Kreer, Jr., Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Counting circuit. 2,614,141, Oct. 14.

Edson, James O., Warren Township, Somerset County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Trigger circuit. 2,614,142, Oct. 14.

Edwal Laboratories, Inc., The, assignee: *See*—
Krueger, John.

Edwards, James R.: *See*—
Nichols, Charles A., Bower, Welser, Edwards, Fletcher, McCoy, and Sample.

Ehlinger, Marcel: *See*—
Mercier, Ernest, and Ehlinger.

Eichelman, Frank J., Brookfield, assignor to National Cylinder Gas Company, Chicago, Ill. Pressure regulating valve. 2,613,481, Oct. 14.

Eichstaedt, Alvin W., East Aurora, N. Y., assignor to International Salt Company, Inc., Scranton, Pa. Salt dissolver. 2,614,032, Oct. 14.

Eisler, Joseph D., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Pendulum damping device for elevation meters. 2,613,449, Oct. 14.

Elliott, Morris R., Buchanan, and G. L. Turner, Niles, assignors to Clark Equipment Company, Buchanan, Mich. Industrial truck. 2,613,828, Oct. 14.

Ely, Oscar L., Dorchester, Mass. Measuring dispenser for cartons. 2,613,856, Oct. 14.

Emerson, Elizabeth K., executrix: *See*—
Emerson, Walter H.

Emerson, Walter H., deceased; by E. K. Emerson, executrix, East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va. Multicolor stamping of dinnerware. 2,613,594, Oct. 14.

Emhart Manufacturing Company, assignee: *See*—
Mongan, Charles E., Jr.

Emmons, Joseph V., Shaker Heights, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Machine bit for drilling wood. 2,613,710, Oct. 14.

Emrick, Melvin H., Jamaica, N. Y. Air-cooled tapping attachment. 2,613,786, Oct. 14.

Engel, Walter, Woodmere, N. Y. Combination cabinet. 2,614,018, Oct. 14.

Engineering Research Associates, Inc., assignee: *See*—
Cohen, Arnold A., Hill, and Kalb.

Ergen, William K., Princeton, N. J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Flight instrument. 2,614,251, Oct. 14.

Ericson, Donald E., Detroit, and E. E. Kwierant, Van Dyke, Mich., assignors to United States Rubber Company, New York, N. Y. Tire building drum. 2,614,057, Oct. 14.

Ericson, Elmer W., Chicago, Ill. Combined binder and display easel. 2,613,956, Oct. 14.

Erickson, Fred E., and L. K. Roe, Sacramento, Calif.; said Roe assignor to said Erickson. Control mechanism for vending and like machines. 2,613,793, Oct. 14.

Eslinger, John, Chicago, Ill. Artificial fish bait. 2,613,470, Oct. 14.

Etablissements Jouan, assignee: *See*—
Mathieu, Paul C.

Evans Products Company, assignee: *See*—
Nampa, Sulo M.

Evans, Ronald M., Ickenham, and P. G. Jones, London, assignors to Glaxo Laboratories Limited, Greenford, England. Preparation of new unsaturated ketone. 2,614,124, Oct. 14.

Evans, Russell T., and J. H. Clasen, Anaheim, Calif. Horizontally hinged wheeled disk harrow. 2,613,491, Oct. 14.

Ex-Cell-O Corporation, assignee: *See*—
Brinkmann, Guenther.

Faber, Eberhard, Pencil Company, assignee: *See*—
Goerlitz, Henry.

Fairbanks, Lee, Jackson Heights, N. Y., and P. Rosenfeld, Newark, N. J. Detachable wire frame for brassières. 2,613,365, Oct. 14.

Fairchild Engine and Airplane Corporation, assignee: *See*—
Wescott, John E.

Falge, Robert N., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Rearview mirror assembly and mounting means. 2,613,575, Oct. 14.

Fallon, David G., Jersey City, N. J., assignor to The Wilcolator Company. Control system for electric appliances. 2,614,199, Oct. 14.

Fantell, Michael, West Orange, N. J. Curling. 2,613,697, Oct. 14.

Fein, Louis, Arlington, assignor, by mesne assignments, to E. G. Martin, Cambridge, Mass. Electrical apparatus for measuring angles. 2,614,171, Oct. 14.

Feinbloom, William F.: *See*—
Friedland, Samuel N., and Feinbloom.

Feldser, R., assignee: *See*—
Henry, Nelson R.

Fillion, Stanley H., Scarsdale, N. Y. Cushion underframe. 2,613,819, Oct. 14.

Finlay, Walter L., Fairfield, Conn., assignor, by mesne assignments, to Rem-Cru Titanium, Inc., Midland, Pa. Titanium molybdenum alloys. 2,614,041, Oct. 14.

Finley, John T.: *See*—
Crump, Lindell L., and Finley.

Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Wear plate for the breech mechanism of guns. 2,613,576, Oct. 14.

Finpinger, Elmer G., Forest Park, Ill. Saw setting tool. 2,613,553, Oct. 14.

Fisher, Edith M., Toledo, Ohio. Shoe supporting device for furniture. 2,613,735, Oct. 14.

Flakice Corporation, assignee: *See*—
Walsh, Edward C.

Flanagan, William F., assignor to New Wrinkle, Inc., Dayton, Ohio. Apparatus for producing wrinkle texture on nonwrinkling films. 2,613,393, Oct. 14.

Fletcher, William A.: *See*—
Nichols, Charles A., Bower, Weiser, Edwards, Fletcher, McCoy and Sample.

Flexico (U. S. A.) S. A., assignee: *See*—
Madsen, Borge.

Flint, Kendall H., Kalamazoo, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Heat exchanger. 2,613,920, Oct. 14.

Food Research Laboratories, Inc., assignee: *See*—
Winsten, Walter A.

Foote, Lawrence R., and W. L. O. Graves, Schenectady, N. Y., assignors to General Electric Company. Indicating system. 2,614,160, Oct. 14.

Forbes, Spencer D., Seattle, Wash. Ink fountain agitator. 2,613,601, Oct. 14.

Foresman, Harry B., Oklahoma City, Okla. Weather stripping. 2,613,407, Oct. 14.

Forges et Ateliers de Constructions Electriques de Jeumont, assignee: *See*—
Cremer, Michel.

Forgue, Stanley V., Cranbury, N. J., assignor to Radio Corporation of America. Color television pickup tube. 2,614,235, Oct. 14.

Foster Wheeler Corporation, assignee: *See*—
Brummerstedt, Egon F.

Fram Corporation, assignee: *See*—
Rodman, Clarke A., and Tewksbury.

Francis, Richard J., Granville, Ohio. Forming reinforced hollow plastic articles. 2,614,058, Oct. 14.

Frantz, Walter A., Shaker Heights, Ohio. Creamer. 2,613,517, Oct. 14.

Fraser, Kenneth G., assignee: *See*—
Stillwagon, George B., Jr.

Frazier, Allen W., Glen Ellen, Calif. Chemical solution feeder. 2,614,074, Oct. 14.

Freas, Robert R., Jr., Jermyn, Pa., assignor to Radio Corporation of America. Timing or drift circuits for Loran navigation systems. 2,614,159, Oct. 14.

Frederick, Charles S., Cleveland, Ohio. Collapsible tube casing and dispenser having a rotatable and slidable closure plug. 2,613,852, Oct. 14.

French, George F. and R., Manchester, England. Woven ladder webbing. 2,613,694, Oct. 14.

French, Roger: *See*—
French, George F. and R.

Fricke, Guy C.: *See*—
Sloane, Robert W., Thomas, and Fricke.

Friedland, Samuel N., and W. F. Feinbloom, assignors to Champion Knitwear Company, Inc., Rochester, N. Y. Athletic garment or the like. 2,613,360, Oct. 14.

Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Feed clutch for cold headers. 2,613,776, Oct. 14.

Friedrich, Ed. Inc., assignee: *See*—
Brinkoeter, Paul H.
Pabst, Richard E.

Frolich, Louise K., Kansas City, Mo. Storage box for clothes. 2,613,805, Oct. 14.

Fryling, Charles F.: *See*—
Uraneck, Carl A., St. John, Fryling, and Troyan.

Funk, William: *See*—
Johns, Stanley S., and Funk.

G-M Laboratories, Inc., assignee: *See*—
Kitto, William H.

Gaffield, Eli W., assignee: *See*—
Ruppert, Clarence J.

Garden City Plating & Manufacturing Co., assignee: *See*—
Kurtzon, George B.

Gardner, Harve E., Jr., assignor of one-half to W. C. Vaughan, Lynchburg, Va. Removable window sash mounting. 2,613,403, Oct. 14.

Gaskell, Walter L., Ypsilanti, assignor to King-Seeley Corporation, Ann Arbor, Mich. Drill press. 2,613,556, Oct. 14.

Gatchet, Francis L., Gardiner, Wash. Solution mixing and distributing apparatus. 2,613,922, Oct. 14.

Gaugler, Richard S., assignor to General Motors Corporation, Dayton, Ohio. Freezing device. 2,613,512, Oct. 14.

Gault, Donald W., Battle Creek, assignor to Clark Equipment Company, Buchanan, Mich. Self-centering bale handler. 2,613,829, Oct. 14.

Gecsei, László A., Sarospatak, Hungary. Training typewriter. 2,613,453, Oct. 14.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Baker, Jack M.
Baxter, Philip.
Bivens, Maurice E.
Dome, Robert B.
Foote, Lawrence R., and Graves.
Kalb, John W.
Keim, Donald B.
King, Robert A.
McNairy, Jacob W.
Mounce, Alfred R.
Prendergast, James J.
Swerdlow, Nathan, and Abel.
Van Nest, Francis H., and Wales.
Warren, Glenn B.

General Motors Corporation, assignee: *See*—
Alexander, Donald F.
Falge, Robert N.
Gaugler, Richard S.
Heyl, Russell G., Jr.
Leach, Clayton B.
Louthan, Chester F., and Long.
Nichols, Charles A., Bower, Weiser, Edwards, Fletcher, McCoy, and Sample.
Schneider, Paul L.
Tynan, Andrew G.

General Precision Laboratory Incorporated, assignee: *See*—
Maybarduk, Leon A.

General Strapping Corporation, assignee: *See*—
Cheesman, John J.

General Tire and Rubber Company, The, assignee: *See*—
Baker, Walter S.
Kraft, Herman T.

Gerrits, Paul H., Appleton, Wis. Steering means for mobile conveyances. 2,613,944, Oct. 14.

Giffard, Whitney, assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,614,021, Oct. 14.

Gifford, Maurice E., Berryville, Ark., assignor to Covert Electric Machinery Company, Joplin, Mo. Device for operation of farm gates. 2,613,972, Oct. 14.

Gilbert, Charles E., deceased, Long Island City, N. Y.; M. D. Gilbert, N. Coates, and The Chase National Bank of the City of New York, executors of said C. E. Gilbert. Machine for assembling electrical connectors. 2,613,432, Oct. 14.

Gilbert, Harry, and A. E. Ardis, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Stabilization of monomeric 1,1 dicyano ethylene. 2,614,117, Oct. 14.

Gilbert, Margaret D., executrix: *See*—
Gilbert, Charles E.

Giles, William J., Belleville, assignor to Tobacco Machine Supply Company, Inc., Linden, N. J. Double wrapping die mechanism for cigar wrapping machines. 2,613,674, Oct. 14.

Giles, Zellner H., Pinole, Calif. Lumber cutting jig. 2,613,707, Oct. 14.

Gilfillan, Henry W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Transmission and controls therefor. 2,613,773, Oct. 14.

Gill, Bertram T., Dorking, and H. Kemp, Surbiton, England; said Gill assignor to said Kemp. Knockdown crate. 2,613,834, Oct. 14.

Gillen, Leslie C., assignee: *See*—
Tuttle, Mary C.

Gillerstrom, Hilmer A., Arcadia, Calif., assignor to Independent Pneumatic Tool Co., Chicago, Ill. Valve mechanism for pneumatic tools. 2,613,646, Oct. 14.

Gillett, William, Grosse Pointe Park, assignor to Detroit Steel Products Company, Detroit, Mich. End filler flash section. 2,613,768, Oct. 14.

Gillette Company, The, assignee: *See*—
Testi, Nicholas.

Gilson, Robert M., Pittsburgh, and P. N. Martin, Penn Township, Allegheny County, Pa., assignors to Westinghouse Air Brake Company. Determining the resistance of insulated joints. 2,614,151, Oct. 14.

Giovannoni, Cash E., Boulder City, Nev. Monowheel vehicle harness. 2,613,953, Oct. 14.

Glasgow, Daniel and H., New York, N. Y. Artificial flower and cluster and making same. 2,614,036, Oct. 14.

Glasgow, Horace: *See*—
Glasgow, Daniel and H.

Glaxo Laboratories Limited, assignee: *See*—
Evans, Ronald M., and Jones.

Goad, Dow, Flippin, Ky. Flashlight assembly having combined support and visor means. 2,614,206, Oct. 14.

Goerlitz, Henry, New York, N. Y., assignor to Eberhard Faber Pencil Company. Rod feeding machine with rod receiving grooved member movable to actuate rod feeding means. 2,613,861, Oct. 14.

Goertz, Raymond C., Hempstead, N. Y., assignor to The Sperry Corporation. Signal mixing circuits. 2,614,237, Oct. 14.

Golick, Joseph J., and R. L. Moore, assignors to Revere Camera Company, Chicago, Ill. Auxiliary spring attachment for motion-picture cameras. 2,613,761, Oct. 14.

Goodall, William M., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency controlled radio relaying system. 2,614,211, Oct. 14.

Goodrich, B. F., Company, The, assignee: *See*—
Averill, Seward J.
Gilbert, Harry, and Ardis.
Hamner, Charles L.
Harrison, Stuart A., and Brown.
Kamlet, Jonas.
Miller, Floyd F.
Shelley, Thomas H., Jr.
Wheelock, George L.

Goodwin, Ernest G., Toledo, Ohio. Anchor for high-tension loading bands for gondola cars. 2,613,614, Oct. 14.

Gora, Henry Z., assignor to The Gora-Lee Corporation, Stratford, Conn. Fastener and washer assembling. 2,613,374, Oct. 14.

Gora-Lee Corporation, The, assignee: *See*—
Gora, Henry Z.

Gorbach, Georg, Graz, Austria, assignor to Sartorius-Werke A.G., Gottingen, Germany. Precision weighing balance. 2,613,926, Oct. 14.

Goserud, Chester O., St. Paul, Minn. Door latch. 2,613,971, Oct. 14.

Goss Printing Press Company, The, assignee: *See*—
McWhorter, Henry L.

Gottstein, Theodore R., Chicago, Ill. Battery lifter. 2,613,982, Oct. 14.

Gouge, Arthur, Ryde, assignor to Saunders-Roe Limited, Osborne, East Cowes, Isle-of-Wight, England. Window for pressurized chambers. 2,613,402, Oct. 14.

Graves, William L. O.: *See*—
Foote, Lawrence R., and Graves.

Gray Manufacturing Company, The, assignee: *See*—
Moore, Frank L.

Graybill, Wilbur H., Lititz, Pa. Bale tension means. 2,613,590, Oct. 14.

Graycik, Eugene L., Cloquet, Minn. Artificial bait. 2,613,471, Oct. 14.

Greene, Charles R.: *See*—
Retter, Harry R., and Greene.

Greenfield, Eugene W., Hastings-on-Hudson, and A. E. Widmer, Ossining, N. Y., assignors to Anaconda Wire and Cable Company. High impedance shielded twin conductor cable. 2,614,172, Oct. 14.

Gregory, James N., Fullerton, assignor to Shell Development Company, San Francisco, Calif. Sampling sub with removable cutting collector. 2,613,916, Oct. 14.

Gregson, Frank, Jonesboro, Ark. Stump saw angling beam and self-propelling and steering attachment. 2,613,698, Oct. 14.

Gridley, George O., Berlin, assignor to The New Britain Machine Company, New Britain, Conn. Chucking means. 2,613,941, Oct. 14.

Grosvenor-Dale Company, Inc., assignee: *See*—
Jarvis, Adolphus.

Gulf Oil Corporation, assignee: *See*—
Cornell, Paul W.
Cornell, Paul W., and Carter.

Gulton Mfg. Corp., assignee: *See*—
Howatt, Glenn N.

Gundersen, Daniel T.: *See*—
Zieboltz, Herbert, Gundersen, and Raetzmann.

Guyton, Frank, Sperry, Okla. Oil routing valve. 2,613,684, Oct. 14.

Haberkorn, Matthew J., Oak Park, Ill. Fish lure. 2,613,469, Oct. 14.

Hadley, Everett M., Riverside, Calif. Vise wrench. 2,613,566, Oct. 14.

Haesly, Rudoph E., Davenport, Iowa. Truss pad. 2,613,669, Oct. 14.

Hagen, Harold: *See*—
Smith, Albert C., and Hagen.

Hailey, William H., Kansas City, assignor to Schreiber Mills, Inc., St. Joseph, Mo. Control system. 2,613,878, Oct. 14.

Halvorsen, Wilmet P., Red Wing, Minn. Dispenser with slidable pressure plates for collapsible tubes. 2,613,853, Oct. 14.

Hamacher, Karl F., Milwaukee, Wis. Wet blasting apparatus. 2,613,482, Oct. 14.

Hammons, Charles T.: *See*—
Mitacek, George C., and Hammons.

Hamner, Charles L., East Lansing, Mich., assignor to The B. F. Goodrich Company, New York, N. Y. Composition for and methods of preserving the freshness of botanical products after severance thereof from living plants. 2,614,039, Oct. 14.

Hancock, Noel W., assignor to Collins Radio Company, Cedar Rapids, Iowa. Timing device. 2,614,218, Oct. 14.

Hand, John B., Haddonfield, N. J. Fishing reel. 2,613,468, Oct. 14.

Hansen, Louis H., San Bruno, Calif. Eraser and cap assembly for pencils. 2,613,644, Oct. 14.

Hansen, Theodore A., Park Ridge, assignor to Teletype Corporation, Chicago, Ill. Electronic distributor. 2,614,217, Oct. 14.

Harcourt, Guy N., Buffalo, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa. Desolventizing materials by distillation. 2,614,073, Oct. 14.

Hardacre, Hugh V., assignee: *See*—
Arnold, Junior K.

Harrell, Comer W., Bainbridge, Ga. Tree puller. 2,613,458, Oct. 14.

Harris, Garrett H., Jackson, Miss. Time controlled cigarette case. 2,613,527, Oct. 14.

Harrison, Stuart A., Stow, Ohio, and W. E. Brown, Cambridge, Mass., assignors to The B. F. Goodrich Company, New York, N. Y. Preparation of synthetic polymeric materials. 2,614,089, Oct. 14.

Harshberger, Russell P., Altadena, Calif. Garden tractor with vibratory tool. 2,613,582, Oct. 14.

Harstick, William H., Oak Park, and O. E. Hintz, Chicago, Ill., assignors to International Harvester Company. Drive coupling for centrifugal separators. 2,613,968, Oct. 14.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Steyer, Friedhelm, and Werner.

Hawkins, Amos E., Hayti, Va. Adjustable pitch propeller for aircraft. 2,613,752, Oct. 14.

Hawkins, Kenneth C., Arcadia, Calif. Fishing tool. 2,613,980, Oct. 14.

Hawthorne, William R., Silver Spring, Md., assignor to Power Jets (Research and Development) Limited, London, England. Turbine and compressor blading in axial flow internal-combustion turbine power plants. 2,613,909, Oct. 14.

Hawxhurst, Bernard S., Zanesville, Ohio. Device for receiving and extinguishing lighted cigarettes. 2,613,677, Oct. 14.

Hays, Leonard A., Jr.: *See*—
Wanderer, Kenneth H., Hays, and Selund.

Hazeltine Research, Inc., assignee: *See*—
Loughlin, Bernard D.

Healy, Judd W., Whiting, and C. W. Brackin, Crown Point, Ind., assignors to Standard Oil Company, Chicago, Ill. Multiunit catalytic cracking operations. 2,614,068, Oct. 14.

Hedding, Linnie K.: *See*—
Taylor, Herbert L., and Hedding.

Heffelfinger, Robert D., Lansdowne, Pa., assignor to American Viscose Corporation, Wilmington, Del. Apparatus for treating fabrics and uncurling the edges thereof. 2,613,522, Oct. 14.

Heftler, Paul, Windsor, Ontario, Canada. Carpet sweeper wheel linkage. 2,613,380, Oct. 14.

Hegg, Edward V.: *See*—
Montgomery, Duncan B., and Hegg.

Heibel, Frank B., St. Louis, Mo. Animal trap. 2,613,473, Oct. 14.

Heimlich, Milton, Larchmont, N. Y. Buttonhole guide for facilitating layout of buttonholes. 2,613,446, Oct. 14.

Heintz Manufacturing Company, assignee: *See*—
Whitney, Forrest J., Jr.

Helmick, Marion A., Fairmont, W. Va., assignor to Owens-Illinois Glass Company. Glass level recording mechanism. 2,613,443, Oct. 14.

Henry, Nelson R., assignor to R. Feldser, Atlanta, Ga. Control for fluid pumping and dispensing machines. 2,614,185, Oct. 14.

Herborn, Ludwig E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Dielectric test circuit. 2,614,152, Oct. 14.

Herman, Nathan L., Cleveland, Ohio, assignor to Poe Machine and Engineering Company, Inc., New Wilmington, Pa. Removable spacer. 2,613,571, Oct. 14.

Herman Pneumatic Machine Company, assignee: *See*—
Johnston, Loyal L.

Herreshoff, Alexander G., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Engine. 2,613,651, Oct. 14.

Herron-Zimmers Moulding Company, assignee: *See*—
Bangerter, Fred.

Heyl, Russell G., Jr., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Unitary body frame construction. 2,613,986, Oct. 14.

Higbee, William W., Xenia, Ohio. Jet engine container. 2,613,807, Oct. 14.

Hill, John L.: *See*—
Cohen, Arnold A., Hill, and Kalb.

Hiller, Erwin J., Cuero, Tex. Container for feeding suckling calves. 2,613,642, Oct. 14.

Hillmer, Herman H., and H. P. Orent, assignors to Printing Engineers Incorporated, Omaha, Nebr. Punch for printing apparatus. 2,613,744, Oct. 14.

Hintz, Otto E.: *See*—
Harstick, William H., and Hintz.

Hirsch, Harold: *See*—
Donovan, Allen F., and Hirsch.

Hirsch, Julius A., Chicago, Ill., assignor to Cutter Cravat, Inc. Tied clip-on bow tie. 2,613,361, Oct. 14.

Hirsch, Julius A., Valparaiso, Ill., assignor to Cutter Cravat, Inc. Tied clip-on bow tie. 2,613,362, Oct. 14.

Hirschler, Alfred E., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Selective adsorption of nonpolar organic compounds. 2,614,135, Oct. 14.

Hispaniola Corporation (La Hispaniola C. P. A.), The, assignee: *See*—
De Kiraly, Paul.

Hobson, H. M., Limited, assignee: *See*—
Mott, Lawrence F.

Hocher, Andrew A., Glenshaw, assignor to Hubbard & Company, Pittsburgh, Pa. Wood clamp. 2,613,963, Oct. 14.

Hocher, Andrew A., Glenshaw, assignor to Hubbard & Company, Pittsburgh, Pa. Clamp. 2,613,964, Oct. 14.

Hocher, Andrew A., Glenshaw, assignor to Hubbard & Company, Pittsburgh, Pa. Clamp. 2,613,965, Oct. 14.

Hocher, Andrew A., Glenshaw, assignor to Hubbard & Company, Pittsburgh, Pa. Clamp. 2,613,966, Oct. 14.

Hoffman, Frank A., Homer City, Pa. Holder and carrier for containers. 2,613,860, Oct. 14.

Hoffmann, Elmer L., Park Ridge, and A. L. Atkins, Chicago, Ill., said Hoffmann assignor to said Atkins. Jig saw blade mounting. 2,613,700, Oct. 14.

Hogg, Reuben T., Chicago, Ill. Typewriter operating apparatus. 2,613,797, Oct. 14.

Holden, James R., Medindie, South Australia, Australia. Sprinkler. 2,613,993, Oct. 14.

Holmes, W. C., & Company Limited, assignee: *See*—
Cooper, Charles.

Holmsten, Neil O., New Rochelle, N. Y. Lock mechanism for window latches. 2,613,523, Oct. 14.

Holmsten, Neil O., New Rochelle, N. Y. Locking mechanism for window latches. 2,613,524, Oct. 14.

Holmsten, Neil O., New Rochelle, N. Y. Locking mechanism for window latches. 2,613,525, Oct. 14.

Holmsten, Neil O., New Rochelle, N. Y. Window lock. 2,613,526, Oct. 14.

Holmsten, Neil O., New Rochelle, N. Y. Fastening device. 2,613,970, Oct. 14.

Homer Laughlin China Company, The, assignee: *See*—
Emerson, Walter H.

Homeyer, August H., Webster Groves, and G. B. De La Mater, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Preparation of 8-chlorotheophylline. 2,614,105, Oct. 14.

Hood, Archie: *See*—
Lange, Willy, and Hood.

Hoover Company, The, assignee: *See*—
Sutton, Otis B., and Wilson.
Vance, John E.
Welland, Edward A.
Whitaker, Uncas A.
White, Harry B.
Wilson, Herbert W.

Hopkes, Henry, New Baltimore, assignor to No-Sag Spring Company, Macomb County, Mich. Spring supporting clip. 2,613,734, Oct. 14.

Hosemaster Machine Company Limited, assignee: *See*—
Wickardt, Kurt W.

Howard, John S., Jr., Baltimore, and W. P. O. Clarke, Annapolis, Md.; said Clarke assignor to said J. S. Howard, Jr. Boat cradle. 2,613,821, Oct. 14.

Howard, Kenneth C., Fort Worth, Tex. Kite control. 2,613,894, Oct. 14.

Howard, Kenneth C., Fort Worth, Tex. Kite control. 2,613,895, Oct. 14.

Howatt, Glenn N., Metuchen, N. J., assignor to Gulton Mfg. Corp. Transducer element and making same. 2,614,144, Oct. 14.

Hubbard & Company, assignee: *See*—
Hocher, Andrew A.

Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Strain carrier for twin strings of insulators. 2,613,913, Oct. 14.

Huber, Russell C., Downey, Calif. Masonry cutter. 2,613,661, Oct. 14.

Huebner, William C., New York, N. Y. Color separation. 2,614,042, Oct. 14.

Hughes, David W., Phoenix, Ariz. Sealable food container. 2,613,804, Oct. 14.

Humpal, Raymond P.: *See*—
Bailey, Frank N., and Humpal.

Hunrath, George, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of the Amy. Supersonic treatment of battery materials. 2613,877, Oct. 14.

Huston, Owen H., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Mutual inductance system. 2,614,164, Oct. 14.

Hutson, Alton W., Richmond, Calif. Arrow adapter for sling shots. 2,613,659, Oct. 14.

Hy-Way Machinery, Incorporated, assignee: *See*—
Miller, William J.

I. D. Watch Case Co., Inc., assignee: *See*—
Dinstman, Hyman.

Ibanez, Joseph, New York, N. Y. Sewless button or cuff link. 2,613,418, Oct. 14.

Imbert, Roger J.: *See*—
Anxionnaz, René, and Imbert.

Imperial Chemical Industries Limited, assignee: *See*—
Simpson, George K., and Brooks.
Simpson, George K., and Traill.

Imperial Paper and Color Corporation, assignee: *See*—
Jones, George F.

Independent Pneumatic Tool Co., assignee: *See*—
Gillerstrom, Hilmer A.

Ingersoll-Rand Company, assignee: *See*—
Reynolds, Harold C.

Interior, United States of America as represented by the Secretary of the, assignee: *See*—
Wender, Irving, and Orchin.

International Cigar Machinery Company, assignee: *See*—
Sartoretto, Paul A., and Carter.

International Harvester Company, assignee: *See*—
Avila, Frank W.
Bechman, William O.
Blaydes, Frederick T., and Bauman.
Borgerd, William F.
Borgerd, William F., and Calling.
Calling, John.
Dierbeck, John J.
Harstick, William H., and Hintz.
Jedrzykowski, Edmund.
Karlsson, Elof K.
Morris, David M.
Schreiber, Paul F.
Toland, Wayne G.

International Salt Company, Inc., assignee: *See*—
Eichstaedt, Alvin W.

Ipatieff, Vladimir N.: *See*—
Pines, Herman, Kvetinskas, and Ipatieff.

Ireton, Carl A., assignor to The Specialty Papers Company, Dayton, Ohio. Method and apparatus for setting moisture-setting printing inks. 2,613,603, Oct. 14.

Jackson, Tom: *See*—
Olpin, Henry C., and Jackson.

Jacoby, George W., Jr., Wooster, Ohio. Holder for hypodermic needle. 2,613,485, Oct. 14.

Jacquier, Pierre A. C., Paris, France. Sealable storage battery construction. 2,614,138, Oct. 14.

Jaguden, Irving, New York, N. Y. Wallet. 2,613,717, Oct. 14.

Jakosky, John J., Los Angeles, Calif. Gravity meter. 2,613,536, Oct. 14.

Jantzen Knitting Mills Inc., assignee: *See*—
Christensen, Bette J.

Jarbeau, Charles F., Dayton, assignor of one-half to F. E. Shankle, Mad River Township, Ohio. Beverage dispensing device. 2,613,988, Oct. 14.

Jarvis, Adolphus, assignor to Grosvenor-Dale Company, Inc., Grosvenor-Dale, Thompson Township, Windham County, Conn. Loom. 2,613,693, Oct. 14.

Jedrzykowski, Edmund, Chicago, Ill., assignor to International Harvester Company. Overload release coupling. 2,613,947, Oct. 14.

Jeffery, David B., assignor to Amity Leather Products Co., West Bend, Wis. Combined billfold and coin purse. 2,613,716, Oct. 14.

Jenkins, Rulon E., *See*—
Bawden, Henry H., and Jenkins.

Jenny, Walter, Reinach, and W. Kern, Sissach, assignors to Ciba Limited, Basel, Switzerland. 1-amido-6,7 dichloro anthraquinone dyestuffs. 2,614,108, Oct. 14.

Jenny, Walter, Reinach, and W. Kern, Sissach, assignors to Ciba Limited, Basel, Switzerland. Alkyl sulfone derivatives of 1:4-diaroylamino 6:7-dichloro anthraquinones. 2,614,109, Oct. 14.

Jensen, Ejler: *See*—
Sylvest, Karl J., and Jensen.

Jessen, Le Roy S., Fairborn, Ohio. Aerial pickup and release device. 2,613,921, Oct. 14.

Jet-Heet, Inc., assignee: *See*—
MacCracken, Calvin D.

Joerndt, Wilbur A., Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy. Ruggedized klystron tube. 2,614,233, Oct. 14.

Johns, Henry S., Cleveland Heights, and W. H. Johns, Gates Mills, Ohio. Photoelectric cell control for bowling alleys. 2,613,933, Oct. 14.

Johns, Stanley S., Baltimore, Md., and W. Funk, Houston, Tex., assignors to Rheem Manufacturing Company, Richmond, Calif. Apparatus for processing surfaces of tubular articles such as steel drums and the like. 2,613,634, Oct. 14.

Johns, Stanley S., Baltimore, Md., assignor to Rheem Manufacturing Company, Richmond, Calif. Automatic barrel handling device for horn presses. 2,613,823, Oct. 14.

Johns, William H.: *See*—
Johns, Henry S. and W. H.

Johnson, Carl E., Verona, assignor to Scaife Company, Oakmont, Pa. Pressure vessel. 2,613,462, Oct. 14.

Johnson, Edward D., assignor to Wagner Electric Corporation, St. Louis, Mo. Throttle control device. 2,613,648, Oct. 14.

Johnson, Francis B., and G. A. Starleaf, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Aircraft tank assembly and supporting means for the same. 2,613,715, Oct. 14.

Johnson, Frank B.: *See*—
Moise, James E., Anderson, and Johnson.

Johnson, Milton A.: *See*—
Olson, Herbert H., and Johnson.

Johnson, Walter, Gary, Ind. Folding pick. 2,614,004, Oct. 14.

Johnston, Loyal L., Zelienople, assignor to Herman Pneumatic Machine Company, Pittsburgh, Pa. Molding apparatus. 2,613,410, Oct. 14.

Johnston Testers, Inc., assignee: *See*—
Long, Thomas L.

Joiner, Edgar E., Jr.: *See*—
Russ, Harley W., and Joiner.

Jones, Clarence M., Tulsa, Okla. Instrument for determining wheel balance. 2,613,532, Oct. 14.

Jones, Clarence M., Tulsa, Okla. Instrument for determining wheel balance. 2,613,533, Oct. 14.

Jones, George F., assignor to Imperial Paper and Color Corporation, Glens Falls, N. Y. Dye bath composition. 2,614,086, Oct. 14.

Jones, James A., Memphis, Tenn., assignor to Reconstruction Finance Corporation, New Orleans, La. Awning. 2,613,404, Oct. 14.

Jones, Kelso, assignee: *See*—
Jones, Ralph E.

Jones, Patrick G.: *See*—
Evans, Ronald M., and Jones.

Jones, Ralph E., assignor of one-half to K. Jones, San Diego, Calif. Shoe latch. 2,613,414, Oct. 14.

Jordan, James W., assignor of fifty per cent to L. W. Burgess, Tallulah, La. Fence post setting and pulling rig. 2,613,912, Oct. 14.

Jordan, Paul O., Hudson, Wis. Air conditioning apparatus. 2,614,202, Oct. 14.

Jorgensen, Aage E., Jersey City, N. J. Drive chains and chain drives adapted to use said chains. 2,613,546, Oct. 14.

Joy Manufacturing Company, assignee: *See*—
Curtis, John C.
Merck, John.

K. A. C. Limited, assignee: *See*—
Llewhellin, Thomas G.

K. N. H. Corporation, assignee: *See*—
Nemir, Clarence T.

Kaikinger, Philippe, Selzaete, Belgium, assignor to Manufactures de Produits Chimiques du Nord Etablissements Kuhlmann, Paris, France. Ammonization. 2,614,040, Oct. 14.

Kalb, John W., Barberton, Ohio, assignor to General Electric Company. Air gap construction. 2,614,232, Oct. 14.

Kalb, Robert M.: *See*—
Cohen, Arnold A., Hill, and Kalb.

Kamlet, Jonas, assignor to The B. F. Goodrich Company, New York, N. Y. Manufacture of manganese dioxide from manganous sulfate solutions. 2,614,030, Oct. 14.

Kamlet, Jonas, assignor to The B. F. Goodrich Company, New York, N. Y. Manufacture of hydroquinone. 2,614,127, Oct. 14.

Kamm, Lawrence J., assignor to The Teleregister Corporation, New York, N. Y. Static electromagnetic memory device. 2,614,167, Oct. 14.

Kanninen, Lauren W.: *See*—
Buzzell, Maurice W., and Kanninen.

Karlsson, Elof K., Moline, Ill., assignor to International Harvester Company. Stalk chopper for corn pickers. 2,613,490, Oct. 14.

Karoff, Robert B., assignor, by mesne assignments, to Novelty Utilities, Inc., New York, N. Y. Multicompartment dish with coacting covers. 2,613,518, Oct. 14.

Karos, George: *See*—
Polomski, John B., and Karos.

Karp, Harvey, Waltham, Mass., R. R. Darden, Jr., Solromar, Calif., and M. F. Kolodziej, Waltham, assignors to Raytheon Manufacturing Company, Newton, Mass. Electronic gating circuits. 2,614,215, Oct. 14.

Kaye, Maxwell M.: *See*—
Kidzus, Michael F., and Kaye.

Kearney, James R., Corporation, assignee: *See*—
Rees, Ned J.

Keil, Havard L., Clarendon Hills, assignor to Armour and Company, Chicago, Ill. Preparation of catalase. 2,614,062, Oct. 14.

Keil, Havard L., Clarendon Hills, assignor to Armour and Company, Chicago, Ill. Preparation of catalase from red blood cells and whole blood. 2,614,063, Oct. 14.

Keim, Donald B., deceased, late of Syracuse, N. Y., by A. C. Kneibler, administrator, Syracuse, N. Y., assignor to General Electric Company. Wire tuning drive. 2,613,540, Oct. 14.

Kellner, Theodore K.: *See*—
Wagner, Samuel, and Kellner.

Kellogg, Henry M., Stratford, Conn. Piecrust lifter. 2,613,977, Oct. 14.

Kelly, Joseph M.: *See*—
Perlow, Gilbert J., and Kelly.

Kemp, Harold: *See*—
Gill, Bertram T., and Kemp.

Kenney, Robert F., Gardner, Mass. Safety pin holder. 2,613,817, Oct. 14.

Kenney, William H., Teaneck, N. J. Wall form system. 2,613,424, Oct. 14.

Kern, Walter: *See*—
Jenny, Walter, and Kern.

Keto, August I., Los Altos, Calif., assignor to the United States of America as represented by the Secretary of the Navy. Torpedo depth control system. 2,613,627, Oct. 14.

Keyes, Kenneth S., Jr., South Miami, Fla. Turnover bed. 2,613,371, Oct. 14.

Kidzus, Michael F., Matawan, and M. M. Kaye, assignors to Mikay Optical Company, Newark, N. J. Novel type of sunglasses. 2,613,354, Oct. 14.

King, Robert A., Erie, Pa., assignor to General Electric Company. Refrigerator cabinet. 2,613,838, Oct. 14.

King-Seeley Corporation, assignee: *See*—
Gaskell, Walter L.
Slvacek, Emil E.
Torrey, Lee E.

Kitson, Charles H., assignee: *See*—
Cordis, Nat.

Kitson, Gerald L., assignee: *See*—
Cordis, Nat.

Kitson, Leon, assignee: *See*—
Cordis, Nat.

Kitson, Ralph A., Hull, Mass. Toy house marble game. 2,613,937, Oct. 14.

Kitto, William H., Evanston, assignor to G-M Laboratories, Inc., Chicago, Ill. Electrical contact assembly. 2,614,195, Oct. 14.

Klein, John O., assignor to Texas Foundries, Inc., Lufkin, Tex. Vehicle coupling. 2,613,948, Oct. 14.

Knaggs, Harold J., deceased, Sandusky, Ohio; L. L. Knaggs, administratrix. Valve. 2,613,688, Oct. 14.

Knaggs, Leah L., administratrix: *See*—
Knaggs, Harold J.

Kneibler, Arthur C., administrator: *See*—
Keim, Donald B.

Knight, James E., Columbus, Ohio, assignor to Curtiss-Wright Corporation. Control system and variable linkage therefor. 2,613,891, Oct. 14.

Knowles, Lloyd G.: *See*—
Karp, Harvey, Darden, and Kolodziej.

Knudsen, Raymond G.: *See*—
Walraven, George M., and Knudsen.

Knudsen, Raymond G., assignor to Snap-On Tools Corporation, Kenosha, Wis. Sleeve pulling device. 2,613,983, Oct. 14.

Kolfenbach, John J., Somerville, N. J., and A. B. Small, Baton Rouge, La., assignors to Standard Oil Development Company. Polymerizing olefins with phosphorus pentoxide-trialkyl phosphate catalyst solution. 2,614,136, Oct. 14.

Kolite Incorporated, assignee: *See*—
View, Stanley E.
Kollsman, Paul, New York, N. Y. Intermittent duct engine. 2,613,496, Oct. 14.
Kollsman, Paul, New York, N. Y. Device for sterilizing hollow thermoplastic articles by heat. 2,614,027, Oct. 14.
Kolodziej, Michael F.: *See*—
Karp, Harvey, Darden, Kolodziej.
Kottmann, Arthur A., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Paper roll support. 2,613,881, Oct. 14.
Kradoska, Edward C., Melrose Park, Pa. Dedenting machine for closed end containers. 2,613,721, Oct. 14.
Kraft, Herman T., assignor to The General Tire and Rubber Company, Akron, Ohio. Method of and apparatus for forming tire bands and band so formed. 2,614,056, Oct. 14.
Krebs, Robert W., Baton Rouge, La., assignor to Standard Oil Development Company. Hydrocarbon synthesis. 2,614,114, Oct. 14.
Kreer, John G., Jr.: *See*—
Edson, James O., and Kreer.
Kreer, John G., Jr., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Trigger circuit. 2,614,140, Oct. 14.
Kueger, John, West Caldwell, N. J., assignor to The Edwal Laboratories, Inc., Ringwood, Ill. Preparation of symmetrical trihydroxy benzene compounds. 2,614,126, Oct. 14.
Kuljian, Harry A., Merion, Pa. Synthetic thread manufacturing apparatus. 2,613,451, Oct. 14.
Kurtzon, George B., Chicago, Ill., assignor to Garden City Plating & Manufacturing Co. Drawer slide. 2,614,022, Oct. 14.
Kvetinskas, Bruno: *See*—
Pines, Herman, Kvetinskas, and Ipatieff.
Kwierant, Ernest E.: *See*—
Ericson, Donald E., and Kwierant.
Lacher, Carl J., Cleveland, Ohio. Luggage container. 2,613,847, Oct. 14.
Lambesis, John G., Chicago, Ill. Switch operating means for stand lamps. 2,614,208, Oct. 14.
Landers, Frary & Clark, assignee: *See*—
Almquist, Nils T.
Landes, Spencer H.: *See*—
Uraneck, Carl A., and Landes.
Lange, Willy, Cincinnati, Ohio, and A. Hood, assignors to Ozark-Mahoning Company, Tulsa, Okla. Production of hydrocarbon-oxy phosphoryl monofluorides. 2,614,116, Oct. 14.
Langius, Manuel, Grand Rapids, Mich. Extension table with detachable end leaves. 2,614,013, Oct. 14.
Lannon, James P., Chevy Chase, Md. Golf bag carrier. 2,613,952, Oct. 14.
Larson, Kenneth R., Des Plaines, Ill. Driver coupler attachment. 2,613,780 Oct. 14.
Lascari, Joseph T., Torrington, Conn. Dry cleaning method and apparatus. 2,614,026, Oct 14.
Lawrence, Ernest O., Berkeley, assignor to Chromatic Television Laboratories, Inc., San Francisco, Calif. Cathode-ray tube for polychrome television apparatus. 2,614,231, Oct. 14.
Lawrence, Howard C., Jr.: *See*—
Consalvi, Anthony L., Webber, and Lawrence.
Lawter, Curtis N., Trenton, N. J., assignor to Packard Motor Car Company, Detroit, Mich. Starter and ignition means for turbojet engines. 2,613,499, Oct. 14.
Leach, Clayton B., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Belleville rotator and spring surge damper. 2,613,656, Oct. 14.
Leake, Armistead, assignor to The Lerio Corporation, Mobile, Ala. Bilge drum assembling machine. 2,613,625, Oct. 14.
Learmonth, Eric M., Charlwood, assignor to British Soya Products Limited, London, England. Treatment of soya beans and other leguminous seeds. 2,614,045, Oct. 14.
Ledig, Charles W., Cranford, N. J., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass. Two-hand safety control for power machinery. 2,613,787, Oct. 14.
Lee, Chite S., Detroit, Mich. Indexing mechanism for machine tools. 2,613,428, Oct. 14.
Lee, Herman C.: *See*—
Balsch, Stephen J., and Lee.
Lee, Robert J., La Marque, and P. D. May, Galveston, assignors to Pan American Refining Corporation, Texas City, Tex. Recovery of drying oils from HF-hydrocarbon complexes. 2,614,132, Oct. 14.
Leece-Neville Company, The, assignee: *See*—
Diamantides, Nicholas D.
Leeds and Northrup Company, assignee: *See*—
Williams, Albert J., Jr., and Tarpley.
Lefere Forge & Machine Company, assignee: *See*—
Lefere, Maurice P.
Lefere, Maurice P., assignor to Lefere Forge & Machine Company, Jackson, Mich. Shear accessory. 2,613,739, Oct. 14.
Leffert, Charles B.: *See*—
Reed, Homer C., Berg, and Leffert.
Lehane, Timothy J.: *See*—
Russell, Edward A., Lehane, and Pidgeon.
Lenz, William J., deceased, Louisville, Ky.; H. Cohen, administrator. Roasting coffee. 2,614,043, Oct. 14.
Lerio Corporation, The, assignee: *See*—
Lease, Armistead.
Lester, Ray F., assignor to Crouse-Hinds Company, Syracuse, N. Y. Switch structure. 2,614,194, Oct. 14.
Letts, John B., assignor to Chrysler Corporation, Highland Park, Mich. Sealed flow device. 2,613,996, Oct. 14.
Levine, David, assignor to Crest Lock Co., Inc., New York, N. Y. Luggage hardware. 2,613,770, Oct. 14.
Levine, David, assignor to Crest Lock Co., Inc., New York, N. Y. Article of luggage hardware. 2,613,771, Oct. 14.
Lewis, James P., and R. R. Rader, Howard, Kans. Lawn mower sharpening device. 2,613,483, Oct. 14.
Lewis, Warren J.: *See*—
Donaldson, Raymond W., and Lewis.
Ligett, Waldo B.: *See*—
McBee, Earl T., Robb, and Ligett.
Lightfoot, Richard D., Oak Park, Ill. Flexible shaft remote-control switch. 2,614,197, Oct. 14.
Limpright, Clifford B., Marysville, Wash. Fishing reel. 2,613,883, Oct. 14.
Lindberg, Arthur F., assignor to De Vry Corporation, Chicago, Ill. Mechanical dowser for motion-picture projecting apparatus. 2,613,573, Oct. 14.
Link, Herbert W., assignee: *See*—
Weber, Milton N.
Linn, William J., Pittsburgh, Pa. Liquid fuel atomizer. 2,614,037, Oct. 14.
Lippy, Fleming L., Richmond, Va. Electric shock eliminator. 2,614,155, Oct. 14.
Lisle, Robert L., Dallas, Tex. Sign mounting. 2,613,464, Oct. 14.
Little, Arthur D., Inc., assignee: *See*—
Dawbarn, Waring L.
Llewhellin, Thomas G., Hillington, Glasgow, assignor to K. A. C. Limited, Glasgow, Scotland. Toggle fastener. 2,613,974, Oct. 14.
Lockheed Aircraft Corporation, assignee: *See*—
Beman, Ward W.
Johnson, Francis B., and Starleaf.
Price, Nathan C.
Stewart, Charles D.
Loibl, Fred, Sr., Honolulu, Territory of Hawaii. Foldable table and seat unit. 2,613,728, Oct. 14.
Loken, Jenard C., Inglewood, Calif. Tripod leg connection. 2,613,902, Oct. 14.
Long, George B.: *See*—
Louthan, Chester F., and Long.
Long, Thomas L., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex. Wire line core barrel. 2,613,918, Oct. 14.
Lorenz, Anton, Buffalo, N. Y. Convertible sofa seat and bed. 2,613,370, Oct. 14.
Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,613,727, Oct. 14.
Lorenz, Anton, Buffalo, N. Y., and H. Nock, Elizabeth, N. J. Combined sofa seat and bed. 2,613,369, Oct. 14.
Lorenz, Vincent C., Anaconda, Mont. Froth breaking apparatus. 2,613,810, Oct. 14.
Loughlin, Bernard D., Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Frequency converter system for radio receivers. 2,614,212, Oct. 14.
Louthan, Chester F., and G. B. Long, assignors to General Motors Corporation, Dayton, Ohio. Apparatus for charging and sealing tubing with solder. 2,613,863, Oct. 14.
Lundberg, Lennart A., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Use of cationic surface active agent in preparation of anionic resin in bead form. 2,614,085, Oct. 14.
Lustek, John, Lorain, Ohio. Deodorizer block and holder. 2,613,990, Oct. 14.
Lysholm, Alf, Stockholm, Sweden. Gas turbine power plant having means for joint control of the fuel and the air supply. 2,613,500, Oct. 14.
M & W Company, Inc., assignee: *See*—
Massler, Abraham I.
Macario, Thomas M.: *See*—
Dalton, Harry, Jr., and Macario.
MacCracken, Calvin D., New Rochelle, assignor to Jet-Heet, Inc., New York, N. Y. Diffuser. 2,613,587, Oct. 14.
MacDonald, Gilmour C., Ames, Iowa. Controllable rocket thrust device. 2,613,497, Oct. 14.
MacGregor, Elizabeth, Clearwater, Fla. Combing and cutting implement. 2,613,477, Oct. 14.
Machinefabriek Kiekens, N. V., assignee: *See*—
Sher, Alfred, and Vet.
MacIntyre, John A., Bristol, R. I. Acoustical cloth. 2,613,696, Oct. 14.
MacKenzie, Harry D.: *See*—
Borglin, Ernest O., and MacKenzie.
MacWilliam, Wallace, Boonton, assignor to Eclipse Air Brush Co., Newark, N. J. Apparatus for spraying rotating radial surfaces. 2,613,635, Oct. 14.
Madsen, Borge, Copenhagen, Denmark, assignor, by mesne assignments, to Flexico (U. S. A.) S. A., Tangier, North Africa. Slide fastener. 2,613,421, Oct. 14.
Magdits, Louis, Chicago, Ill. Bow facing oar. 2,613,373, Oct. 14.

Maiden Form Brassiere Company, Inc., assignee: *See*—
Coleman, Joseph A.
Mallett, Edwin A., and M. M. Seeloff, assignors to The Taylor-Winfield Corporation, Warren, Ohio. Seam welder head. 2,614,146, Oct. 14.
Mallinckrodt Chemical Works, assignee: *See*—
Homeyer, August H., and De La Mater.
Stoughton, Roger W.
Mandato, Henry E., Goshen, N. Y. Barber's comb. 2,613,678, Oct. 14.
Mandell, Bertram H., assignee: *See*—
Mandell, David E.
Mandell, David E., New York, assignor to B. H. Mandell, Elmhurst, N. Y. Truss. 2,613,668, Oct. 14.
Manners, Frank, New York, N. Y. Exercising apparatus. 2,613,932, Oct. 14.
Manning, Maxwell & Moore, Inc., assignee: *See*—
Roper, Charles G.
Manufactures de Produits Chimiques du Nord Etablissements Kuhlman, assignee: *See*—
Kaikinger, Philippe.
Marié, Pierre, Boston, Mass., assignor to Societe francaise Sadir-Carpentier, Paris, France. Directional coupler for polyphase networks. 2,614,170, Oct. 14.
Mariner, Norman E., Beverly, and L. G. Knowles, Hamilton, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in making insoles. 2,613,377, Oct. 14.
Marschke, Berthold V., administrator: *See*—
Marschke, Reinhold B.
Marschke, Reinhold B., deceased, St. Paul, Minn., by B. V. Marschke, administrator. Foldable stairs. 2,613,866, Oct. 14.
Marshall Field and Company, assignee: *See*—
Moberg, Ivar O.
Martenot, Maurice, Neuilly-sur-Seine, France. Musical sound generating device. 2,613,568, Oct. 14.
Martin, Edward G., assignee: *See*—
Fein, Louis.
Martin, George O., Walnut Ridge, Ark. Combination staking tool. 2,613,434, Oct. 14.
Martin, Paul N.: *See*—
Gilson, Robert M., and Martin.
Marulli, Ernesto C., Holyoke, Mass. Detachable handle for cupcake pans and the like. 2,613,978, Oct. 14.
Massler, Abraham I., Irvington, assignor to M & W Company, Inc., Newark, N. J. Apparatus and method for producing disk phonograph records. 2,613,395, Oct. 14.
Masson Scott & Company Limited, assignee: *See*—
Battersby, James E.
Matheson, George L., Union, N. J., assignor to Standard Oil Development Company. Carbonizing subdivided solids. 2,614,069, Oct. 14.
Mathews, Bernard C.: *See*—
Andersen, Arthur A., and Mathews.
Mathieu, Paul C., Epinay-sur-Orge, assignor to Etablissements Jouan, Paris, France. Apparatus for spectrophotometry. 2,613,572, Oct. 14.
Matson, Raymond N., assignee: *See*—
Ruppert, Clarence J.
Matthews, W. N., Corporation, assignee: *See*—
Appleman, Glen.
Mosley, Carl E.
Matthiesen, Christian: *See*—
Clausen, Mads, and Matthiesen.
Maurer, Edwin R., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Synchronized centrifugal clutch. 2,613,782, Oct. 14.
Maurer, Edwin R., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Synchronized centrifugal pawl clutch. 2,613,783, Oct. 14.
May, Paul D.: *See*—
Lee, Robert J., and May.
Maybarduk, Leon A., Sunnyside, N. Y., assignor to General Precision Laboratory Incorporated. Full-view concentric indicator. 2,613,629, Oct. 14.
McBee, Earl T., R. M. Robb, and W. B. Ligett, La Fayette, assignors to Purdue Research Foundation, West Lafayette, Ind. Perfluorination. 2,614,129, Oct. 14.
McClintock, Imogene, assignee: *See*—
McClintock, Sherman E.
McClintock, Sherman E., assignor of one-half to P. J. Stine, Orlando, Fla., and one-half to I. McClintock. Drive-in service device. 2,613,762, Oct. 14.
McCoy, Harold W.: *See*—
Nichols, Charles A., Bower, Welser, Edwards, Fletcher, McCoy, and Sample.
McEwen, Robert L., Williamsville, assignor to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Sizing and bleaching a wet web. 2,613,579, Oct. 14.
McGee, Leland T., Los Angeles, Calif. Making hydraulic cylinders with plungers. 2,613,431, Oct. 14.
McGehee, Charles L., Los Angeles, Calif. Wax paper dispenser. 2,614,015, Oct. 14.
McGhan, Elmer W., and H. S. Ungerleider, Salt Lake City, Utah. Ticket severing device. 2,613,742, Oct. 14.
McGraw Electric Company, assignee: *See*—
Sefton, Robert C., and Zimsky.
McKay, James G., Chicago, Ill. Code printing attachment for tape dispensing machines. 2,613,598, Oct. 14.
McKellar, Robert: *See*—
Bauman, William C., and McKellar.
McLaughlin, Edward F., Philadelphia, Pa. Instep guard for safety shoes. 2,613,457, Oct. 14.
McLaughlin, John J., assignor to The Wilkie Company, Philadelphia, Pa. Telescoping conveyer line. 2,613,788, Oct. 14.
McLaughlin, John J., assignor to The Wilkie Company, Philadelphia, Pa. Gravity conveyer section. 2,613,789, Oct. 14.
McNair, Irving M., Emmaus, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y. Leak detector for immersion heaters. 2,614,200, Oct. 14.
McNairy, Jacob W., Westport, Conn., assignor to General Electric Company. Control device. 2,613,630, Oct. 14.
McPhee, John E., assignor to John Widdicomb Company, Grand Rapids, Mich. Pallet conveyer and selector. 2,613,798, Oct. 14.
McPhee, William F., Ringwood, assignor of six-tenths to I. M. Slepicka, Chicago, Ill. Power-operated pivoted shears. 2,613,437, Oct. 14.
McWhorter, Henry L., Hinsdale, assignor to The Goss Printing Press Company, Chicago, Ill. Inking arrangement for printing presses. 2,613,600, Oct. 14.
Medlin, Milton, New York, N. Y. Belt buckle. 2,613,417, Oct. 14.
Meissner, Karl W., New York, N. Y. Stencil printing apparatus. 2,613,596, Oct. 14.
Mellor, Adrien R., Loma Linda, Calif. Striking toy. 2,613,475, Oct. 14.
Melzer, Herman M., McKeesport, Pa. Portable loudspeaker heater attachment for drive-in theaters. 2,613,757, Oct. 14.
Mercier, Ernest, and M. Ehlinger, Paris, France, assignors, by mesne assignments, to Moore, Inc., Atlanta, Ga. Vapor and gas power plant utilizing equipressure vapor generator. 2,613,495, Oct. 14.
Merck, John, Franklin, Pa., assignor to Joy Manufacturing Company. Articulated conveyer take-up. 2,613,800, Oct. 14.
Mergenthaler Linotype Company, assignee: *See*—
Yutang, Lin.
Merrill Trust Company, The, executor: *See*—
Terrill, Delmer D.
Merryman, Carl, assignor to Dur-O-Lite Pencil Company, Melrose Park, Ill. Mechanical pencil. 2,613,643, Oct. 14.
Mertzweiller, Joseph K., Baton Rouge, La., assignor to Standard Oil Development Company. Controlled distillation of oxo alcohols containing high-boiling impurities. 2,614,128, Oct. 14.
Metal Products Corporation, assignee: *See*—
Conrad, Owen.
Metals & Controls Corporation, assignee: *See*—
Thomas, Elton K.
Metz, Charles, Youngstown, Ohio. Captive hoop toy. 2,613,476, Oct. 14.
Miers, Archie M., Croton-on-Hudson, N. Y., assignor to Chrysler Corporation, Highland Park, Mich. Brake rigging. 2,613,766, Oct. 14.
Mikay Optical Company, assignee: *See*—
Kidzus, Michael F., and Kaye.
Mikeska, Louis A., Westfield, N. J., assignor to Standard Oil Development Company. Preparation of dicarboxylic acids from saturated monocarboxylic acids. 2,614,122, Oct. 14.
Milford, Francis H., Syracuse, N. Y. Vane type hydraulic clutch or coupling. 2,613,779, Oct. 14.
Miller, Floyd F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Stabilization of monomeric 1,1-dicyano ethylene. 2,614,118, Oct. 14.
Miller, Henry J.: *See*—
Broussard, Robert F., and Miller.
Miller, Leon F., Fairview Village, and L. C. Cole, Cleveland Heights, assignors to The Osborn Manufacturing Company, Cleveland, Ohio. Molding machine and molding. 2,613,409, Oct. 14.
Miller, Paul H., Indianapolis, Ind. Slicing device for culinary purposes. 2,613,714, Oct. 14.
Miller, William J., assignor to Hy-Way Machinery, Incorporated, Youngstown, Ohio. Apparatus for heating and handling bituminous materials. 2,613,665, Oct. 14.
Milster, Arthur N., assignor to Wagner Electric Corporation, St. Louis, Mo. Bumper hitch. 2,613,949, Oct. 14.
Milton, Roy, Company, assignee: *See*—
Saalfrank, Royal B.
Sheen, Milton R., R. T., and Saalfrank.
Sheen, Robert T., and Saalfrank.
Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Cary, Rex H. J.
Minit-Man, Inc., assignee: *See*—
Rousseau, Leo J.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Alberts, Lawrence E.
Ergen, William K.
Minnesota Mining & Manufacturing Company, assignee: *See*—
Buzzell, Maurice W., and Kanninen.
Simons, Joseph H., and Brice.
Minor, Burt S., Whittier, assignor to Regan Forge and Engineering Company, San Pedro, Calif. Hook. 2,613,981, Oct. 14.

Mitacek, George C., San Francisco, and C. T. Hammons, Berkeley, assignors to Spark Stove Co., Inc., Oakland, Calif. Space heater and air circulating accessory therefor. 2,613,663, Oct. 14.

Mitchell, Reid L.: *See*—
Schlosser, Paul H., and Mitchell.

Mize, Paul D., Detroit, Mich. Machine for applying solid rubber tires to wheel rims. 2,613,736, Oct. 14.

Moberg, Ivar O., Spray, N. C., assignor to Marshall Field and Company, Chicago, Ill. Distortion weave fabric structure. 2,613,695, Oct. 14.

Model Crafters Inc., assignee: *See*—
Allen, William M.

Moede, Jerome A., New Brunswick, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Purification of silver nitrate solutions. 2,614,029, Oct. 14.

Mohns, Leslie F., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Clutch plate with vibration dampener. 2,613,785, Oct. 14.

Mohrmann, Albert L., Brooklyn, N. Y. Weighting member for card sorting racks. 2,613,815, Oct. 14.

Moise, James E., J. S. Anderson, and F. B. Johnson, Baton Rouge, La., assignors to Standard Oil Development Company. Distillation of oxo alcohols in the presence of intermediate boiling diluents. 2,614,071, Oct. 14.

Moll, Pierre, Paris, France. Frequency control device. 2,614,221, Oct. 14.

Mongan, Charles E., Jr., Hartford, Conn., assignor to Emhart Manufacturing Company. Apparatus for treating glassware. 2,613,480, Oct. 14.

Monsanto Chemical Company, assignee: *See*—
Bauer, Edmund S., Jr.
Boyd, Thomas.
Nichols, William T.
Rogers, David F.

Montgomery, Duncan B., Gardenville, and E. V. Hegg, Eggertsville, N. Y., assignors to Blaw-Knox Company, Pittsburgh, Pa. Flaking fused crystalline solids. 2,613,396, Oct. 14.

Montgomery, Orin C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Sealed shaft and alignment coupler for use in electrical assembly. 2,614,157, Oct. 14.

Moore Electronic Laboratories, Incorporated, assignee: *See*—
Bordewieck, Robert W., Roebuck, and Sleeper.

Moore, Frank L., assignor to The Gray Manufacturing Company, Hartford, Conn. Sound recording and reproducing machine. 2,613,939, Oct. 14.

Moore, Inc., assignee: *See*—
Mercier, Ernest, and Ehlinger.

Moore, Laurence L., assignor to Winslow Engineering Co., Oakland, Calif. Filter. 2,613,814, Oct. 14.

Moore, Robert J., Oakland, and W. Saarni, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Grease compositions. 2,614,076, Oct. 14.

Moore, Robert J., Oakland, and W. Saarni, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Grease composition. 2,614,077, Oct. 14.

Moore, Robert J., Oakland, assignor to Shell Development Company, San Francisco, Calif. Lubricating grease. 2,614,079, Oct. 14.

Moore, Robert L.: *See*—
Golick, Joseph J., and Moore.

Morey Machinery Co., Inc., assignee: *See*—
Trudeau, Max O.

Morgan, George T., Pacific Palisades, Calif. Pedal skirt garment. 2,613,363, Oct. 14.

Morris, David M., Richmond, Ind., assignor to International Harvester Company. Cover fastener. 2,613,969, Oct. 14.

Morton, Eldred O., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Washing machine having a resiliently supported tub structure. 2,613,837, Oct. 14.

Morton, Evans T., assignor to Admiral Corporation, Chicago, Ill. Refrigerator. 2,613,510, Oct. 14.

Moseley, Tomlinson I., Atherton, Calif. Jalousie. 2,613,405, Oct. 14.

Mosley, Carl E., Overland, assignor to W. N. Matthews Corporation, St. Louis, Mo. Current limiter. 2,614,189, Oct. 14.

Moss, Edward, New York, N. Y. Slide projector-sound synchronization system. 2,613,574, Oct. 14.

Moss, Eric B., and C. W. Cooper, Cricklewood, London, England. Electrical indicating device. 2,614,244, Oct. 14.

Mott, Lawrence F., Walton, Stone, assignor to H. M. Hobson Limited, London, England. Hydraulic servomotor. 2,613,650, Oct. 14.

Mounce, Alfred R., Fort Wayne, Ind., assignor to General Electric Company. Sliding door assembly. 2,613,844, Oct. 14.

Moutinho, Antonio, Oakville, Conn. Clock train periodic switch. 2,614,183, Oct. 14.

Mouw, Andrew, Huntington Woods, assignor to No-Sag Spring Company, Detroit, Mich. Spring construction. 2,613,733, Oct. 14.

Mugnier, Joachim, Seynod, France. Multiple table desk. 2,614,017, Oct. 14.

Mullins Manufacturing Corporation, assignee: *See*—
Stanitz, Jacques.

Mullins, Paul V.: *See*—
Baird, Carl E., and Mullins.

Munson, William H., Callahan, Calif. Adjustable rollerway for sawmill feed carriages. 2,613,702, Oct. 14.

Multiscreen Corporation, assignee: *See*—
Weldon, Joseph T.

Murray, Addie P., and O. E. Barthel, Detroit, Mich. Articulator for making artificial dentures. 2,613,440, Oct. 14.

Muskat, Louis R., Oak Park, assignor to Triangle Package Machinery Company, Chicago, Ill. Automatic weighing machine. 2,613,905, Oct. 14.

Myers, Errol L., Detroit, Mich., assignor to H. O. Trerice, doing business as H. O. Trerice Company. Steam trap. 2,613,685, Oct. 14.

Nampa, Sulo M., assignor to Evans Products Company, Detroit, Mich. Freight loading. 2,613,615, Oct. 14.

Nash-Kelvinator Corporation, assignee: *See*—
Giffard, Whitney.
Philipp, Lawrence A.
Ulrich, Theodore.

Nathan, Albert F., Plainfield, N. J. Hydraulically operated jig saw. 2,613,701, Oct. 14.

National Broach and Machine Company, assignee: *See*—
Praeg, Walter S.

National Cash Register Company, The, assignee: *See*—
Brown, William C.

National Cylinder Gas Company, assignee: *See*—
Eichelman, Frank J.

National Machinery Company, The, assignee: *See*—
Friedman, John H.

National Pneumatic Co., Inc., assignee: *See*—
Ledig, Charles W.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Ballar, John C., Jr., and Parry.
Joerndt, Wilbur A.
Keto, August I.

Neal, Harry A., La Grange, Ill. Manhole lid locking means. 2,613,975, Oct. 14.

Nelson, Thomas E., Pontiac, Mich. Oil seal. 2,613,960, Oct. 14.

Nemenyi-Katz, Laszlo, London, England. Device for timing and adjusting balance wheel assemblies. 2,613,529, Oct. 14.

Nemir, Clarence T., assignor to K. N. H. Corporation, Washington, D. C. Apparatus for expressing oil. 2,613,592, Oct. 14.

Neon Products Inc., assignee: *See*—
Smith, Kenneth F.

Neracher, Carl A., and W. T. Dunn, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Vehicle brake. 2,613,774, Oct. 14.

New Britain Machine Company, The, assignee: *See*—
Gridley, George O.

Newby, Charles A., Hazel Park, and D. W. Steinbrecher, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Battery holding device. 2,613,755, Oct. 14.

Newhall, Welrose L., Coraopolis, E. Willison, Greentree, and J. Stevens, Sewickley, assignors to Dravo Corporation, Pittsburgh, Pa. Shipping container. 2,613,836, Oct. 14.

Newman, Melvin S., and S. Swaminathan, assignors to The Ohio State University Research Foundation, Columbus, Ohio. 1-acetyl-6-Oxo-8a-methyl-3,4,6,7,8,8a-hexahydronaphthalene. 2,614,123, Oct. 14.

New Wrinkle, Inc., assignee: *See*—
Flanagan William F.

Nichols, Charles A., R. B. Bower, G. L. Weiser, J. R. Edwards, W. A. Fletcher, H. W. McCoy, Anderson, Ind., and B. S. Sample, Danville, Ill., assignors to General Motors Corporation, Detroit, Mich. Material heating and handling means. 2,613,450, Oct. 14.

Nichols, Charles R., McAllen, Tex., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Mud weighing apparatus. 2,613,530, Oct. 14.

Nichols, William T., Kirkwood, assignor to Monsanto Chemical Company, St. Louis, Mo. Inhibition of polymerization of acrylonitrile. 2,614,119, Oct. 14.

Nims, Paul T., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Instrument panel. 2,614,156, Oct. 14.

Nock, Harry: *See*—
Lorenz, Anton, and Nock.

Nolcken, Woldemar G., Headington, Oxford, assignor to Pressed Steel Company Limited, Oxford, England. Control valve, such as for refrigerating systems. 2,613,505, Oct. 14.

Noon, T Cyrill, Bainbridge Township, Geauga County, and F. C. Bayer, East Cleveland, assignors to Thompson Products, Inc., Cleveland, Ohio. Variable area fuel nozzle. 2,613,998, Oct. 14.

No-Sag Spring Company, assignee: *See*—
Hopkes, Henry.
Mouw, Andrew.

Novelty Utilities, Inc., assignee: *See*—
Karoff, Robert B.

Nyffenegger, Hans, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Steam locomotive, including individual axle drive. 2,613,613, Oct. 14.

Ockert, Carl E., Wilmington, Del., assignor to Sun Oil Company, Philadelphia, Pa. Continuous adsorption process. 2,614,133, Oct. 14.

Ogorzaly, Henry J., Summit, and W. A. Rex, Westfield, N. J., assignors to Standard Oil Development Company. Feeding subdivided solids. 2,613,832, Oct. 14.

Ohio Brass Company, The, assignee: *See*—
Donaldson, Raymond W.
Donaldson, Raymond W., and Lewis.

Ohio, State University Research Foundation, The, assignee: *See*—
Newman, Melvin S., and Swaminathan.

Ohsol, Ernest O.: *See*—
Catterall, William E., and Ohsol.

Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,613,387, Oct. 14.

Olpin, Henry C., and T. Jackson, Spondon, near Derby, England, assignors to Celanese Corporation of America. Dyeing cellulose derivative textile material by impregnating it with a swelling solution containing urea and an esterified leuco vat dye and subsequently steaming twice. 2,614,023, Oct. 14.

Olson, Clifford H., Fargo, N. Dak. Fruit holder. 2,613,984, Oct. 14.

Olson, Herbert H., Jamestown, and M. A. Johnson, Lakewood, assignors to Art Metal Construction Company, Jamestown, N. Y. Filing cabinet drawer. 2,614,019, Oct. 14.

Orchin, Milton: *See*—
Wender, Irving, and Orchin.

Orent, Henry P.: *See*—
Hillmer, Herman H., and Orent.

Orms, Francis, Akron, Ohio. Telephone holder 2,614,177, Oct. 14.

Osborn Manufacturing Company, The, assignee: *See*—
Miller, Leon F., and Cole.

Ostline, John E.: *See*—
Balzer, Harvey W., and Ostline.

Ostreicher, Warren J., New York, N. Y., assignor to Tele-Tone Radio Corporation. Tuning unit. 2,614,248, Oct. 14.

Oswald, Alfons, Zurich, Switzerland, assignor to United Shoe Machinery Corporation, Flemington, N. J. Margin-stretching wiper for folding machines. 2,613,378, Oct. 14.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Borkland, Gustave W.

Owens-Illinois Glass Company, assignee: *See*—
Helmick, Marion A.

Ozark-Mahoning Company, assignee: *See*—
Lange, Willy, and Hood.

Paatero, Yrjö V., Helsinki, Finland. Chair for use in X-ray photographing of teeth. 2,613,726, Oct. 14.

Pabst, Richard E., assignor to Ed Friedrich, Inc., San Antonio, Tex. Open top frozen food refrigerator. 2,613,507, Oct. 14.

Packard Motor Car Company, assignee: *See*—
Lawter, Curtis N.

Palen, Peter H., Paterson, assignor to Reaction Motors, Inc., Dover, N. J. Three-way ball valve. 2,613,908, Oct. 14.

Pan American Refining Corporation, assignee: *See*—
Lee, Robert J., and May.

Pansegrau, Arthur, Marshalltown, Iowa. Grease dispenser. 2,613,855, Oct. 14.

Parry, Robert W.: *See*—
Ballar, John C., Jr., and Parry.

Parson, James C., Kansas City, Kans. Float operated measuring valve. 2,613,686, Oct. 14.

Patterson, Louis L., Los Angeles, Calif. Liquid dispensing device having a globular combined applicator and outlet valve. 2,613,382, Oct. 14.

Pearlman, Harry, Syracuse, N. Y. Portable vegetable peeling machine. 2,613,712, Oct. 14.

Pechtel, Victor H., Farmingdale, N. Y. Garment hanger. 2,613,857, Oct. 14.

Peebles, Noah F., Odon, Ind. Soft soap dispenser. 2,613,713, Oct. 14.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Carroll, James W.

Perdue, Dwight J., and C. B. Richards, Canton, assignors to Republic Steel Corporation, Cleveland, Ohio. Feeding apparatus for straightening machines. 2,613,801, Oct. 14.

Perlow, Gilbert J., Washington, D. C., and J. M. Kelly, Arlington, Va. Panoramic receiver. 2,614,214, Oct. 14.

Peters, Charles P., Arlington, Tex. Combined sprinkler and dispenser. 2,613,994, Oct. 14.

Philco Corporation, assignee: *See*—
Tellier, Joseph C.

Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,613,509, Oct. 14.

Phillips Petroleum Company, assignee: *See*—
Ayers, Arnold L.
Carney, Samuel C.
Montgomery, Orin C.
Pletv, Raymond G.
Robinson, Sam P.
Uraneck, Carl A., and Landes.
Uraneck, Carl A., St. John, Fryling, and Troyan.
Uraneck, Carl A. Tucker, and St. John.

Pidgeon, Robert E.: *See*—
Russell, Edward A., Lehane, and Pidgeon.

Piety, Raymond G., Bartlesville, Okla., assignor to Phillips Petroleum Company. Determining the direction of arrival of waves. 2,614,166, Oct. 14.

Pines, Herman, B. Kvetinskas, and V. N. Ipatieff, assignors to Universal Oil Products Company, Chicago, Ill. Oxidative condensation of alkyl aromatic hydrocarbons and of nuclearly chlorinated alkyl aromatic hydrocarbons. 2,614,130, Oct. 14.

Platz Company, Inc., The, assignee: *See*—
Platz, Henry T.

Platz, Henry T., assignor to The Platz Company, Inc., Detroit, Mich. Dual load balancing hoist. 2,613,903, Oct. 14.

Poe Machine and Engineering Company, Inc., assignee: *See*—
Herman, Nathan L.

Polomski, John B., and G. Karos, Detroit, Mich., assignors to Borg-Warner Corporation, Chicago, Ill. Positive clutch for power transmission. 2,613,781, Oct. 14.

Ponnequin, Louie H., Honolulu, Hawaii. Lift truck fork. 2,613,830, Oct. 14.

Portello, Theodore J., assignee: *See*—
Tuttle, Mary C.

Post, Arthur K., assignor to The Bagley & Sewall Company, Watertown, N. Y. Web winder reel. 2,613,880, Oct. 14.

Postlewaite, William R., Menlo Park, assignor, by mesne assignments, of one-half to California Research Corporation, San Francisco, Calif., and one-half to A. O. Smith Corporation, Milwaukee, Wis. Turbine-impact drill. 2,613,917, Oct. 14.

Potts, Louis M., deceased; by M. W. C. Potts, executrix, Evanston, assignor to Teletype Corporation, Chicago, Ill. Ticket sorting apparatus. 2,613,809, Oct. 14.

Potts, Martha W. C., executrix: *See*—
Potts, Louis M.

Power Jets (Research and Development) Limited, assignee: *See*—
Hawthorne, William R.

Powers, John M., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Purification of crystalline substances. 2,614,134, Oct. 14.

Praeg, Walter S., assignor to National Broach and Machine Company, Detroit, Mich. Finishing gears. 2,613,486, Oct. 14.

Pratt, Henry, Company, assignee: *See*—
Smith, Stuart B.

Prel Incorporated, assignee: *See*—
Ward, Lawrence T.

Prendergast, James J. Erie, Pa., assignor to General Electric Company. Oil separation and reclaiming means for gas turbine power plants. 2,613,498, Oct. 14.

Pressed Steel Company Limited, assignee: *See*—
Nolcken, Woldemar G.

Pretty Products, Inc., assignee: *See*—
Timmons, William D.

Pretzer, Paul R., Bratenahl, Ohio. Soil mixing attachment for power tractors. 2,613,581, Oct. 14.

Price, Charles C., South Bend, Ind., and R. M. Roberts, Austin, Tex., assignors to the United States of America as represented by the Secretary of the Army. Making intermediates for producing basic compounds. 2,614,121, Oct. 14.

Price, Nathan C., St. Helena, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Gas turbine power plant having propeller drive. 2,613,749, Oct. 14.

Price, Nathan C., Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Internal-combustion turbine power plant. 2,613,501, Oct. 14.

Pricer, Lowell L., Hayward, Calif. Work holder. 2,613,557, Oct. 14.

Printing Engineers Incorporated, assignee: *See*—
Hillmer, Herman H., and Orent.

Proud, Ralph A., Wickliffe, and H. C. Stanley, Willoughby, Ohio, assignors to Talon, Inc. Machine for attaching snap fasteners to tape and the like. 2,613,835, Oct. 14.

Prouty, Lawrence R., New York, N. Y. Continuously rotary character-wheel printing machine. 2,613,796, Oct. 14.

Pullin, Cyril G., Tadburn, Ampfield, and J. S. Shapiro, Hampstead, London, England, assignors, by mesne assignments, to Autogiro Company of America, Philadelphia, Pa. Helicopter with auxiliary rotor. 2,613,748, Oct. 14.

Pung, Ol G., assignee: *See*—
Singer, Henry.

Purdue Research Foundation, assignee: *See*—
McBee, Earl T., Robb, and Ligett.

Purington, Ellison S., Gloucester, Mass., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Pulsed radio signaling. 2,614,210, Oct. 14.

Pyle, Robert A., Lapeer, Mich. Projectile booster. 2,613,604, Oct. 14.

R. G. D. Corporation, The, assignee: *See*—
Ritter, Emil C.

Radar, Ralph R.: *See*—
Lewis, James P., and Rader.

Radio Corporation of America, assignee: *See—*
Consalvi, Anthony L., Webber, and Lawrence.
Eaton, Thomas T.
Forgue, Stanley V.
Freas, Robert R., Jr.
Purlington, Ellison S.
Ramberg, Edward G.
Smith, Arthur L. J.

Ramberg, Edward G., Feasterville, Pa., assignor to Radio Corporation of America. Method of and apparatus for making electron-micrographs of opaque metallographic specimens. 2,614,223, Oct. 14.

Rapisarda, Joseph A., Springfield, Mass. Locking bobby pin. 2,613,680, Oct. 14.

Ray, William A., Los Angeles, Calif., assignor to General Controls Co. Fluid control valve. 2,613,682, Oct. 14.

Raynor, John S., Jr., Philadelphia, Pa. Plasterboard clip. 2,613,416, Oct. 14.

Rayonier Incorporated, assignee: *See—*
Schlosser, Paul H., and Mitchell.

Raytheon Manufacturing Company, assignee: *See—*
Karp, Harvey, Darden, and Kolodziej.

Reaction Motors, Inc., assignee: *See—*
Palen, Peter H.

Reconstruction Finance Corporation, assignee: *See—*
Dahl, George W.
Jones, James A.

Record Files, Inc., assignee: *See—*
Regenhardt, Hans W.

Reed, Homer C., Glendale, C. H. O. Berg, and C. B. Leffert, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Refining process and apparatus. 2,614,067, Oct. 14.

Rees, Louis N., Cathlamet, Wash. Log-handling apparatus. 2,613,831, Oct. 14.

Rees, Ned J., assignor to James R. Kearney Corporation, St. Louis, Mo. Overload release coupling. 2,613,516, Oct. 14.

Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Speed-varying power transmission. 2,613,545, Oct. 14.

Reeves Pulley Company, assignee: *See—*
Reeves, Paul B.

Regan Forge and Engineering Company, assignee: *See—*
Minor, Burt S.

Reifurth, Otto, Immigrath Rhld, Germany. Rail joint. 2,613,875, Oct. 14.

Regenhardt, Hans W., assignor to Record Files, Inc., Wooster, Ohio. Interlocking filing cabinet. 2,614,016, Oct. 14.

Reilly, John H., assignor to The Dow Chemical Company, Midland, Mich. Infusible copolymeric vinylidene chloride composition. 2,614,092, Oct. 14.

Reinhold, Charles, Geneva, Switzerland. Spray gun for paints and other liquids. 2,613,995, Oct. 14.

Reinhold, Charles L., Geneva, Switzerland. Nozzle for spray guns. 2,614,000, Oct. 14.

Rem-Cru Titanium, Inc., assignee: *See—*
Finlay, Walter L.

Renne, William C., Kansas City, Mo. Wallpaper pasting and trimming machine. 2,613,632, Oct. 14.

Republic Steel Corporation, assignee: *See—*
Perdue, Dwight J., and Richards.

Retter, Harry R., and C. R. Greene, Tipp City, Ohio; said Retter assignor to said Greene. Form compensating means. 2,613,602, Oct. 14.

Revere Camera Company, assignee: *See—*
Golick, Joseph J., and Moore.

Rex, Walter A.: *See—*
Ogorzaly, Henry J., and Rex.

Reynolds, Harold C., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Rotary driven percussive tool. 2,613,662, Oct. 14.

Rheem Manufacturing Company, assignee: *See—*
Anderson, Eugene J.
Johns, Stanley S.
Johns, Stanley S., and Funk.

Rich, Everett W., Stockton, Calif. Registering device for counting the operations of oscillatory machine elements. 2,613,873, Oct. 14.

Richard, Millard A., Lakeville, Ind. Egg candler and grader. 2,613,808, Oct. 14.

Richard, William E., Evansville, Ind., assignor to Seeger Refrigerator Company, St. Paul, Minn. Refrigerator shelf. 2,613,818, Oct. 14.

Richards, Clarence B.: *See—*
Perdue, Dwight J., and Richards.

Richards, Willard R., Warren, Ohio. Shuttlecock type play ball. 2,613,935, Oct. 14.

Richardson, James C., Waterbury, assignor to The Brockway Company, Naugatuck, Conn. Coupling for double-walled pipes. 2,613,958, Oct. 14.

Richardson, James C., Waterbury, assignor to The Brockway Company, Naugatuck, Conn. Coupling for threadless pipes. 2,613,959, Oct. 14.

Ring, Roland, Houston, Tex., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Well surveying instrument. 2,613,448, Oct. 14.

Ringle, Harvey E., Riverside, Calif. Apparatus for heating orchards and the like. 2,613,478, Oct. 14.

Riordan, Howard C., Oak Park, and W. S. Stone, Chicago, Ill.; said Stone assignor to said Riordan. Method and machine for making globular surgical sponges. 2,613,399, Oct. 14.

Riordan, Howard C., Oak Park, and W. S. Stone, Chicago, Ill.; said Stone assignor to said Riordan. Method and machine for making globular surgical sponges. 2,613,400, Oct. 14.

Ritter, Emil C., assignor to The R. G. D. Corporation, New York, N. Y. Connecting means for parallel tubes. 2,613,957, Oct. 14.

Ritter, Saul, assignor of one-half to M. J. Bruner, New York, N. Y. Clasp for bracelets. 2,613,415, Oct. 14.

Rivoche, Eugene J., Washington, D. C. Self-heating container having hermetic sealing means. 2,613,664, Oct. 14.

Robb, Richard M.: *See—*
McBee, Earl T., Robb, and Ligett.

Roberts, Ingham S., Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Strand cushioning device. 2,613,884, Oct. 14.

Roberts, Ingham S., Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del. Strand tensioning device. 2,613,886, Oct. 14.

Roberts, Royston M.: *See—*
Price, Charles C., and Roberts.

Robinson, Blanche E., Chicago, Ill. Corsage pin. 2,613,412, Oct. 14.

Robinson, Joseph W., Trenton, N. J. Razor blade holder. 2,612,438, Oct. 14.

Robinson, Marion B., Great Neck, N. Y. Electrical relay. 2,614,184, Oct. 14.

Robinson, Maurice C., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Motion converting apparatus. 2,613,551, Oct. 14.

Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Evaporative crystallization process and apparatus therefor. 2,614,035, Oct. 14.

Rock-Ola Manufacturing Corporation, assignee: *See—*
Triman, Eugene L.

Rodman, Clarke A., Garden City, N. Y., and N. L. Tewksbury, Fall River, Mass., assignors to Fram Corporation. Filtering by attracting sludge particles. 2,613,813, Oct. 14.

Roe, Loyal K.: *See—*
Erickson, Fred E., and Roe.

Roebuck, James O.: *See—*
Bordewieck, Robert W., Roebuck, and Sleeper.

Roesen, Oscar C., Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J. Machine for milling pockets in curved stereotype plates. 2,613,578, Oct. 14.

Rogers, Bertram C., Sharon, Pa. High-voltage breaker and recloser. 2,614,191, Oct. 14.

Rogers, David F., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Germicidal compositions. 2,614,060, Oct. 14.

Roginski, John S., Boston, Mass. Headrest. 2,613,731, Oct. 14.

Rojahn, Fred H., Lynbrook, N. Y. Apparatus for interlockably assembling fastener stringers. 2,613,433, Oct. 14.

Roper, Charles G., Fairfield, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y. Electromechanical control and indicating system. 2,614,163, Oct. 14.

Roper, John M., Washington, D. C., and T. O. Twist, Chevy Chase, Md. Illuminating device for instrument panels. 2,614,205, Oct. 14.

Rose, Clarence W., Denver, Colo. Safety belt. 2,613,865, Oct. 14.

Rosenbaum, Maurice, New York, N. Y. Shower curtain. 2,613,368, Oct. 14.

Rosenfeld, Paul: *See—*
Fairbanks, Lee, and Rosenfeld.

Rossi, Irving, Morristown, N. J., assignor to Continuous Metalcast Corporation, Wilmington, Del. Cooling system for continuous casting molds. 2,613,411, Oct. 14.

Rossman, Allen M., Wilmette, Ill. Pull rod carrier. 2,614,005, Oct. 14.

Rousseau, Leo J., Grosse Pointe, assignor to Minit-Man, Inc., Detroit, Mich. Rotary vehicle washing brush. 2,613,383, Oct. 14.

Rowe, Mark R.: *See—*
Wiegand, Francis J., Stark, and Rowe.

Rozières, Jean, Saint-Cloud, France. Wire rolling mill. 2,613,560, Oct. 14.

Rubatex Products Inc., assignee: *See—*
Cooper, Lester S.

Rupp, William C., Parma, assignor to The Chandler & Price Company, Cleveland, Ohio. Oscillating bed and platen press. 2,613,599, Oct. 14.

Ruppert, Clarence J., assignor of thirty-three and one-third per cent to E. W. Gaffield, Washington, D. C., and thirty-three and one-third per cent to R. N. Matson, Silver Spring, Md. Saddle cover. 2,613,722, Oct. 14.

Rusnak, Paul, Los Angeles, Calif. Folding utility cart. 2,613,951, Oct. 14.

Rusoff, Samuel, Tiffin, assignor to Basic Refractories, Inc., Cleveland, Ohio. Refractory compositions. 2,614,050, Oct. 14.

Russ, Harley W., Haverhill, and E. E. Joiner, Jr., Andover, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Machine for forming the upper faces of wedge heels. 2,613,705, Oct. 14.

Russell, Edward A., and T. J. Lehane, Chicago, and R. E. Pidgeon, Round Lake, assignors to Vapor Heating Corporation, Chicago, Ill. Electrical system for controlling the temperature of individual air streams. 2,613,919, Oct. 14.

Russell, Winifred M., Los Angeles, Calif., assignor, by mesne assignments, to Caltex Sportswear Co. of California, Inc. Brassière. 2,613,356, Oct. 14.

Rust, John D., Memphis, Tenn. Cotton picking machine. 2,613,492, Oct. 14.

Rutishauser, Edgar, Zurich, Switzerland. Sheet feed device for rotary duplicating machines. 2,613,597, Oct. 14.

Ryan, Herbert W.: *See—*
Setzer, Curt F., and Ryan.

Rycroft, Norman, Meriden, assignor to Cornercroft Limited, Coventry, England. Wheel cover securing means. 2,614,001, Oct. 14.

Saalfrank, Royal B.: *See—*
Sheen, Milton R. and R. T., and Saalfrank.
Sheen, Robert T., and Saalfrank.

Saalfrank, Royal B., Gulfport, Fla., assignor to Milton Roy Company, Philadelphia, Pa. Differential bellows pump. 2,613,610, Oct. 14.

Saarni, Walfrid: *See—*
Moore, Robert J., and Saarni.

Sacrey, Elmer P., Syracuse, N. Y. Depth adjustment for motor-driven cutting tools. 2,613,704, Oct. 14.

Saflir, Jacob A., Los Angeles, Calif. Artificial teeth. 2,613,439, Oct. 14.

St. John, Willard M.: *See—*
Uraneck, Carl A., St. John, Fryling, and Troyan.

St. John, Willard M., Jr.: *See—*
Uraneck, Carl A., Tucker, and St. John.

Salmivuori, Johannes E., Helsingfors, Finland, assignor to Aktiebolaget Addo, Malmo, Sweden. Cylinder lock. 2,613,528, Oct. 14.

Samica Corporation, assignee: *See—*
De Senarclens, Gérard.

Sample, Basil S.: *See—*
Nichols, Charles A., Bower, Weiser, Edwards, Fletcher, McCoy, and Sample.

Sartoretto, Paul A., New York, and J. H. Carter, Jr., Forest Hills, N. Y., assignors to International Cigar Machinery Company. Tobacco sheet material and producing the same. 2,613,672, Oct. 14.

Sartoretto, Paul A., New York, and J. H. Carter, Jr., Forest Hills, N. Y., assignors to International Cigar Machinery Company. Tobacco sheet material and producing the same. 2,613,673, Oct. 14.

Sartorius-Werke A. G., assignee: *See—*
Gorbach, Georg.

Sato, Takeo, Honolulu, Hawaii. Angle post and shoring head. 2,613,904, Oct. 14.

Saunders, Enos P., Berkley, Mich. Stud driver and puller. 2,613,565, Oct. 14.

Saunders, Enos P., Berkley, Mich. Stud driver. 2,613,942, Oct. 14.

Saunders-Roe Limited, assignee: *See—*
Gouge, Arthur.

Sbicca, Frank, Los Angeles, Calif. Support for shoes mounted upon lasts. 2,613,816, Oct. 14.

Scalfe Company, assignee: *See—*
Johnson, Carl E.

Schaefer, Hilbert C., South Amana, Iowa. Expansion control for hay balers. 2,613,593, Oct. 14.

Schaefer, Margaret E., St. Louis, Mo. Knitted footwear. 2,613,520, Oct. 14.

Schaumann, Holger H., Newark, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Superheating titanium tetrachloride. 2,614,028, Oct. 14.

Schindler, John, Brooklyn, N. Y. Packaging. 2,613,991, Oct. 14.

Schlesinger, Hermann I., Chicago, Ill., and H. C. Brown, Detroit, Mich., assignors to the United States of America as represented by the United States Atomic Energy Commission. Uranium purification as complexes of esters of trifluoroacetoacetic acid. 2,614,113, Oct. 14.

Schlosser, Paul H., and R. L. Mitchell, assignors to Rayonier Incorporated, Shelton, Wash. Steeping of cellulose. 2,614,102, Oct. 14.

Schlumberger Well Surveying Corporation, assignee: *See—*
Huston, Owen H.

Schneider, Paul L., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Engine starting apparatus. 2,614,230, Oct. 14.

Schnitzler, Walter A., Emerald, Wis. Welding helmet with air pressure responsive shiftable eye protective lens. 2,613,353, Oct. 14.

Schock, Gusmer & Co. Inc., assignee: *See—*
Smith, Albert C., and Hagen.

Schottelkotte, Franklin B., St. Bernard, assignor to The E. W. Buschman Co., Cincinnati, Ohio. Switching means for conveyers. 2,613,790, Oct. 14.

Schraeder, Charles H., Detroit, Mich. Eaves flashing for gutter-protecting device. 2,613,621, Oct. 14.

Schreiber Mills, Inc., assignee: *See—*
Hailey, William H.

Schreiber, Paul F., Evansville, Ill., assignor to International Harvester Company. Testing for excess moisture content in refrigerating systems. 2,613,534, Oct. 14.

Schultz Manufacturing Company, assignee: *See—*
Schultz, Otto.

Schwebel, John F., Sr., Van Nuys, Calif. Eyeglass rim-stretching apparatus. 2,613,561, Oct. 14.

Schweizerische Lokomotiv- und Maschinenfabrik, assignee: *See—*
Nyffenegger, Hans.

Schultz, Otto, assignor to Schultz Manufacturing Company, Cleveland, Ohio. Drilling and centering attachment for turret lathes. 2,613,555, Oct. 14.

Schwietert, Gustav, McGregor, Iowa. Oil burner nozzle. 2,613,737, Oct. 14.

Scott, Walter A., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Vacuum regulator for milking systems. 2,613,759, Oct. 14.

Scovill Manufacturing Company, assignee: *See—*
Boden, George, and Duell.

Seeger Refrigerator Company, assignee: *See—*
Richard, William E.

Seeloff, Melvin M.: *See—*
Mallett, Edwin A., and Seeloff.

Sefton, Robert C., and J. J. Zimsky, Pittsburgh, Pa., assignors, by mesne assignments, to McGraw Electric Company. Making transformer cores. 2,613,430, Oct. 14.

Sefton, Robert C., Dormont Borough, and J. J. Zimsky, Canonsburg, Pa., assignors, by mesne assignments, to McGraw Electric Company. Magnetic core. 2,614,158, Oct. 14.

Selck, Walter E., and Co., assignee: *See—*
Drain, Herbert D.

Self, Douglas R.: *See—*
Wimberly, Sam B., and Self.

Selund, Robert B.: *See—*
Wanderer, Kenneth H., Hays, and Selund.

Servel, Inc., assignee: *See—*
Cook, Dudley R.

Setzer, Curt F., and H. W. Ryan, assignors to Setzer Forest Products, Inc., Sacramento, Calif. Lumber sorting apparatus. 2,613,825, Oct. 14.

Setzer Forest Products, Inc., assignee: *See—*
Setzer, Curt F., and Ryan.

Shaffer, Walter D., Chicago, Ill., assignor to United Shoe Machinery Corporation, Flemington, N. J. Work guiding means for shoe sewing machines. 2,613,624, Oct. 14.

Shankle, Franklin E., assignee: *See—*
Jarbeau, Charles F.

Shapiro, Isadore, Danbury, Conn. Hinged-clamp for applying antiskid. 2,613,563, Oct. 14.

Shapiro, Isadore, Albany, N. Y. Film packet for use with dental X-ray machines. 2,614,225, Oct. 14.

Shapiro, Jacob S.: *See—*
Pullin, Cyril G., and Shapiro.

Sharp, Albert, and G. Sharp, Bayonne, N. J. Cutting mechanism and extrusion nozzle for continuously moving plastic bars. 2,613,618, Oct. 14.

Sharp, George: *See—*
Sharp, Albert, and G.

Sharples Corporation, The, assignee: *See—*
Davis, Walter C.

Sheen, Emma E., coexecutor: *See—*
Sheen, Milton R., R. T., and Saalfrank.

Sheen, Milton R., deceased, Glenside, Pa., by E. E. Sheen, coexecutor, Glenside, and R. T. Sheen, Wyndmoor, Pa., and R. B. Saalfrank, Gulfport, Fla., said R. T. Sheen and said Saalfrank assignors to Milton Roy Company, Chestnut Hill, Pa. Constant delivery pump. 2,613,606, Oct. 14.

Sheen, Robert T.: *See—*
Sheen, Milton R., R. T., and Saalfrank.

Sheen, Robert T., Wyndmoor, Pa., and R. B. Saalfrank, Gulfport, Fla., assignors to Milton Roy Company, Springfield Township, Montgomery County, Pa. Bellows pump. 2,613,607, Oct. 14.

Shell Development Company, assignee: *See—*
Detling, Kenneth D., and Skei.
Gregory, James N.
Moore, Robert J.
Moore, Robert J., and Saarni.

Shelley, Thomas H., Jr., Spottswood, N. J., assignor to The B. F. Goodrich Company, New York, N. Y. Heat stabilization of a chlorine containing polymer with a mercapto acid amide. 2,614,095, Oct. 14.

Sher, Alfred, and D. Vet, assignors, by mesne assignments, to Machinefabriek Klekens, N. V., Amsterdam, Netherlands. Surface-atom'zer. 2,613,999, Oct. 14.

Sherwin-Williams Co., The, assignee: *See—*
Coash, Conrad V.

Shields, James R., assignor to Blaw-Knox Company, Pittsburgh, Pa. Vapor condensing apparatus and method. 2,613,513, Oct. 14.

Shroyer, Jacob L., Oak Park, Ill. Hotel type pressure cooker. 2,613,666, Oct. 14.

Shulman, Maurice H., Brookline, Mass. Can opener auxiliary. 2,613,846, Oct. 14.

Simon, Andrew B., assignor to The American MonoRail Company, Cleveland, Ohio. Removing lint by variable-speed traveling blower. 2,613,611, Oct. 14.

Simons, Joseph H., and T. J. Brice, State College, Pa., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Fluorocarbon mono-iodides and making. 2,614,131, Oct. 14.

Simpson, George K., Fairlie, and D. Traill, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited. Thioformaldehyde and mercuric chloride treatment of protein filaments. 2,614,024, Oct. 14.

Simpson, George K., Ardrossan, and J. Brooks, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited. Formaldehyde and uranyl salt treatment of protein filaments. 2,614,025, Oct. 14.

Singer, Henry, assignor of one-half to O. G. Pung, Honolulu, Hawaii. Toy carrousel. 2,613,931, Oct. 14.

Sivacek, Emil E., assignor to King-Seeley Corporation, Ann Arbor, Mich. Windshield wiper drive mechanism. 2,613,386, Oct. 14.

Skei, Thurston: *See*—
Detling, Kenneth D., and Skei.

Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave generating circuits. 2,614,222, Oct. 14.

Sleeper, Neal M.: *See*—
Bordewieck, Robert W., Roebuck, and Sleeper.

Slepicka, Irvin M., assignee *See*—
McPhee, William F.

Sloane, Robert W., Detroit, M. J. Thomas, Birmingham, and G. C. Fricke, Pleasantridge, Mich., assignors to Bendix Aviation Corporation, South Bend, Ind. Governor. 2,613,657, Oct. 14.

Slyk, Stanley S., Chicago, Ill. Combined expander and oil check for piston rings. 2,614,010, Oct. 14.

Small, Augustus B.: *See*—
Kolfenbach, John J., and Small.

Small, Edward F., Newton, Mass. Fishing reel. 2,613,882, Oct. 14.

Smidth, F. L., & Co., assignee: *See*—
Sylvest Karl J., and Jensen.

Smith, A. O., Corporation, assignee: *See*—
Postlewaite, William R.

Smith, Albert C., and H. Hagen, Wilkes-Barre, Pa., assignors to Schock, Gusmer & Co. Inc., Hoboken, N. J. Timer for barrel washing machines. 2,614,239, Oct. 14.

Smith, Arthur L. J., Lancaster, Pa., assignor to Radio Corporation of America. Zinc sulfide type phosphors containing magnesium sulfide. 2,614,082, Oct. 14.

Smith, Edgar G., Youngstown, Ohio. Currency denomination indicator. 2,614,162, Oct. 14.

Smith, Edwin K., Jr., New York, and C. W. Buckley, Mount Vernon, N. Y., assignors, by mesne assignments, to The de Florez Company, Inc. Apparatus for gluing-off and end sheet pasting. 2,613,375, Oct. 14.

Smith, H. V., assignee: *See*—
Smith, Harold C.

Smith, H. V., Company, assignee: *See*—
Smith, Harold C.

Smith, Harold C., Minneapolis, assignor to H. V. Smith, St. Paul, Minn., doing business as H. V. Smith Company. Scent disseminator. 2,613,989, Oct. 14.

Smith, Howard C., assignor to American Pop Corn Company, Sioux City, Iowa. Preparing corn for popping. 2,614,044, Oct. 14.

Smith, Kenneth F., assignor to Neon Products Inc., Lima, Ohio. Support for illuminated globe used on gasoline pumps. 2,614,207, Oct. 14.

Smith, Orson P., assignor, by mesne assignments, to Smithway Machine Co., Inc., Seattle, Wash. Weighted feed roll for woodworking machines. 2,613,706, Oct. 14.

Smith, Paul V., Jr.: *See*—
Carlson, Carl S., and Smith.

Smith, Stuart B., Chicago, Ill., assignor to Henry Pratt Company. Louver damper with pressure seal. 2,613,940, Oct. 14.

Smith, Warren M., Baton Rouge, La., assignor to Standard Oil Development Company. Heat treating and distillation of oxo alcohols. 2,614,070, Oct. 14.

Smith, Wilbert P. E., Thomaston, Conn. Automatic engine cutoff for tractors. 2,613,756, Oct. 14.

Smithway Machine Co., Inc., assignee: *See*—
Smith, Orson P.

Smurr, Harry M., Hanford, Calif. Wave motor assembly. 2,613,868, Oct. 14.

Snap-On Tools Corporation, assignee: *See*—
Knudsen, Raymond G.
Walraven, George M., and Knudsen.

Snow, Barton S., Batavia, Ill., assignor to T. W. Snow Construction Company, Inc. Sand dispensing apparatus. 2,614,002, Oct. 14.

Snow, T. W., Construction Company, Inc., assignee: *See*—
Snow, Barton S.

Societe Francaise Radio-Electrique, assignee: *See*—
Chireix, Henri.

Societe Francaise Sadir-Carpentier, assignee: *See*—
Boisvieux, Jacques, and Chaumeron.
Marié, Pierre.

Societe Rateau (Societe Anonyme), assignee: *See*—
Anxionnaz, René, and Imbert.
Waeselynck, Raymond F. M.

Socony-Vacuum Oil Company, Incorporated: *See*—
Caesar, Philip D., Waldo, and Crowley.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Drew, Robert D., and Bergstrom.

Soderman, George W., West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Grinding fixture. 2,613,484., Oct. 14.

Sokolik, Edward, New Brighton, Minn. Carpenter's nail. 2,613,570, Oct. 14.

Sokolik, Edward, New Brighton, Minn. Sanitary vaginal appliance. 2,613,670, Oct. 14.

Sollenberger, Lester D.: *See*—
Broussard, Robert F., and Sollenberger.

Sollers, Allan A., Baltimore, Md. Toxic bait for oyster beds. 2,613,474, Oct. 14.

Sorensen, Andrew J., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Inductive railway train communication system. 2,614,209, Oct. 14.

Spahr, Raymond J., Cranbury, N. J., assignor to The Borden Company, New York, N. Y. Condensation products of phenol, formaldehyde and unsubstituted mononuclear dihydric phenols. 2,614,096, Oct. 14.

Spark Stove Co., Inc., assignee: *See*—
Mitacek, George C., and Hammons.

Specialty Papers Company, The, assignee: *See*—
Ireton, Carl A.

Sperry Corporation, The, assignee: *See*—
Goertz, Raymond C.

Sperry-Sun Well Surveying Company, assignee: *See*—
Nichols, Charles R.
Ring, Roland.

Sprague, Robert M., Pittsburgh, Pa. Garment hanger. 2,613,858, Oct. 14.

Staffa, Joseph, Chicago, Ill. Dress separator for wardrobe trunks or suitcases. 2,613,769, Oct. 14.

Stalker Development Company, assignee: *See*—
Clarke, Daniel J.

Stalker, Edward A., Bay city, Mich. Slotted turbine blade. 2,613,910, Oct. 14.

Standard Oil Company, assignee: *See*—
Healy, Judd W., and Brackin.
Wanderer, Kenneth H., Hays, and Selund.

Standard Oil Company, The, assignee: *See*—
Partleson, John D.

Standard Oil Development Company, assignee: *See*—
Archibald, Francis M.
Barr, Frank T.
Carlson Carl S., and Smith.
Catterall, William E., and Ohsol.
Kolfenbach, John J., and Small.
Krebs, Robert W.
Matheson, George L.
Mertzweiller, Joseph K.
Mikeska, Louis A.
Nolse, James E., Anderson, and Johnson.
Ogorzaly, Henry J., and Rex.
Powers, John M.
Smith, Warren M.
Stone, Albert L.
Tickler, Richard B.
Welch, Lester M.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Cisco, Edward S.

Stanfield, James R., Castle Bromwich, Birmingham, assignor to The Austin Motor Company Limited, Birmingham, England. Raising and lowering tops of motor vehicles. 2,613,987, Oct. 14.

Stanitz, Jacques, Warren, assignor to Mullins Manufacturing Corporation, Salem, Ohio. Table top and back splash construction. 2,614,014, Oct. 14.

Stanley Aviation Corporation, assignee: *See*—
Stanley, Robert M.

Stanley, Howard C.: *See*—
Proud, Ralph A., and Stanley.

Stanley, Robert M., assignor to Stanley Aviation Corporation, Buffalo, N. Y. Weapons handling unit. 2,613,822, Oct. 14.

Stanley, Russell M., Lebanon, Oreg. Toenail correcting device. 2,613,667, Oct. 14.

Stanolind Oil and Gas Company, assignee: *See*—
Doolittle, Waddie W.
Eisler, Joseph D.

Stark, William T.: *See*—
Wiegand, Francis J., Stark, and Rowe.

Starleaf, George A.: *See*—
Johnson, Francis B., and Starleaf.

Steinmen, Lawrence E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Vibration damping mount for machines. 2,613,897, Oct. 14.

Stein, Hall & Company, Inc., assignee: *See*—
Werbin, Sanford J.

Steinbrecher, Don W.: *See*—
Newby, Charles A., and Steinbrecher.

Stepkin, David, Bronx, N. Y. Cigarette holder for automobile ash trays. 2,613,676, Oct. 14.

Stevens, Joseph: *See*—
Newhall, Welrose L., Willison, and Stevens.

Stewart, Charles D., Glendale, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Dual throttle control. 2,613,547, Oct. 14.

Steyer, Friedhelm, and W. Werner, Hamburg, Germany, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Variable capacitor. 2,614,149, Oct. 14.

Still, Sidney S., Orlando, Fla. Preparation of drawn poultry carcasses. 2,613,391, Oct. 14.

Stillabower, Donald R., Detour, Mich. Piepan lifting and handling implement. 2,613,979, Oct. 14.

Stillwagon, Charles K., assignor to Davis Brake Beam Company, Johnstown, Pa. Brake beam. 2,613,767, Oct. 14.

Stillwagon, George B., Jr., assignor of one-half to K. G. Fraser, Dayton, Ohio. Sealing unit for a valve mechanism. 2,613,907, Oct. 14.

Stine, Paul J., assignee: *See*—
McClintock, Sherman E.

Stodola, Edwin K., Neptune, N. J., assignor to the United States of America as represented by the Secretary of War. Moving target pulse echo measuring system. 2,614,250, Oct. 14.

Stone, Albert L., Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Hoisting device. 2,613,915, Oct. 14.

Stone, John, 4th, Havertown, Pa., assignor to Warren Webster & Company, Camden, N. J. Reactor-controlled electronic circuit. 2,614,242, Oct. 14.

Stone, Wilfred S.: *See*—
Riordan, Howard C., and Stone.

Stong, Guy E., Elmira, assignor to Corning Glass Works, Corning, N. Y. Glass reheating and reshaping. 2,613,479, Oct. 14.

Story, Gethro, Fort Worth, Tex. Can opener. 2,613,435, Oct. 14.

Stoughton, Roger W., assignor to Mallinckrodt Chemical Works, St. Louis, Mo. α,α-N-trimethyl succinimide. 2,614,106, Oct. 14.

Stratford, Henry R., assignor to Dowty Equipment Limited, Cheltenham, England. Aircraft castorable or steerable landing element mountings. 2,613,888, Oct. 14.

Stubnitz-Greene Spring Corporation, assignee: *See*—
Dye, Kenneth R., and Stubnitz.

Stubnitz, Maurice: *See*—
Dye, Kenneth R., and Stubnitz.

Stuebing, Walter C., Jr., Cincinnati, Ohio. Motorized drive wheel assembly for lift trucks or the like. 2,613,753, Oct. 14.

Suda, Charles R., Minneapolis, Minn. Pivoted bucket closure. 2,613,843, Oct. 14.

Sullivan, Edward B., Cincinnati, Ohio. Sheet dividing and compiling machinery. 2,613,929, Oct. 14.

Sun Oil Company, assignee: *See*—
Hirschler, Alfred E.
Ockert, Carl E.

Sutton, Otis B., Canton, and H. W. Wilson, assignors to The Hoover Company, North Canton, Ohio. Snap switch. 2,614,186, Oct. 14.

Swaminathan, Sambasiva: *See*—
Newman, Melvin S., and Swaminathan.

Swank, Inc., assignee: *See*—
Bowder, David H.

Swanson, Donald F., Chicago, Ill. Automatic coffee making and dispensing apparatus. 2,613,588, Oct. 14.

Swanson, Ralph G., Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polishing composition. 2,614,049, Oct. 14.

Swenson, Gordon C., Erie, Pa. Chatterless countersink. 2,613,558, Oct. 14.

Swerdlow, Nathan, Philadelphia, and G. G. Abel, Media, Pa., assignors to General Electric Company. Gasketed cover for isolated phase bus. 2,613,845, Oct. 14.

Sylvest, Karl J., and E. Jensen, Copenhagen, Denmark, assignors to F. L. Smidth & Co., New York, N. Y. Packing machine. 2,613,854, Oct. 14.

Syrovy, Augustin J., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Rotary hydraulic torque converter. 2,613,503, Oct. 14.

Tabler, Guy R., Hardin, Mo. Portable target apparatus. 2,613,934, Oct. 14.

Talbert, Austin G., Lyons, Ill. Coupling for tractor and semitrailer units. 2,613,945, Oct. 14.

Tallman, Jesse J., Fort Bragg, Calif. Stacking apparatus. 2,613,824, Oct. 14.

Talon, Inc., assignee: *See*—
Proud, Ralph A., and Stanley.

Tarpley, Raymond E.: *See*—
Williams, Albert J., Jr., and Tarpley.

Tatar, Joseph S., Chicago, Ill. Portable and collapsible support for musical instruments. 2,613,901, Oct. 14.

Taylor, Herbert L., Turtle Creek, and L. K. Hedding, Wilkinsburg, Pa., assignors to Westinghouse Air Brake Company. Manufacture of copper oxide rectifiers. 2,614,052, Oct. 14.

Taylor-Winfield Corporation, The, assignee: *See*—
Mallett, Edwin A., and Seeloff.

Telephonics Corporation, assignee: *See*—
Weideman, William T.

Teleregister Corporation, The, assignee: *See*—
Kamm, Lawrence J.

Tele-Tone Radio Corporation, assignee: *See*—
Ostreicher, Warren J.

Teletype Corporation, assignee: *See*—
Hansen, Theodore A.
Potts, Louis M.

Tellier, Joseph C., Penn Wynne, assignor to Philco Corporation, Philadelphia, Pa. Superregenerative detector. 2,614,216, Oct. 14.

Tenerowicz, Frank A., and L. Bortolotti, Lackawanna, N. Y. Handgrip wrench with a lever and cam feed sliding jaw. 2,613,567, Oct. 14.

Ternes, Raymond F., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Apparatus for manufacturing inner tubes. 2,613,392, Oct. 14.

Terrill, Delmer D., Bangor, Maine, deceased; G. F. Eaton and The Merrill Trust Company, Bangor, Maine, executors of said D. D. Terrill. Tensioning means for bow saw frame. 2,613,709, Oct. 14.

Terry, Payton A., Bristol, Va. Press sealing head for wrapping and sealing edibles. 2,613,489, Oct. 14.

Tesla, National Corporation, assignee: *See*—
Carniol, Bohdan.

Testi, Nicholas, assignor to The Gillette Company, Boston, Mass. Blade-dispensing magazine. 2,613,806, Oct. 14.

Tewksbury, Norman L.: *See*—
Rodman, Clarke A., and Tewksbury.

Texas Foundries, Inc., assignee: *See*—
Klein, John O.

Thilmany Pulp and Paper Company, assignee: *See*—
Baisch, Stephen J., and Lee.

Thomas, Elton K., Norton, assignor to Metals & Controls Corporation, Attleboro, Mass. Relief valve. 2,613,874, Oct. 14.

Thomas, Michael J.: *See*—
Sloane, Robert W., Thomas, and Fricke.

Thompson Products, Inc., assignee: *See*—
Noon, T Cyril, and Bayer.

Thurber Corporation, The, assignee: *See*—
Thurber, Edward J.

Thurber, Edward J., assignor to The Thurber Corporation, New Orleans, La. Power transmission mechanism. 2,613,549, Oct. 14.

Thurber, Edward J., assignor to The Thurber Corporation, New Orleans, La. Power transmission mechanism. 2,613,550, Oct. 14.

Thurber, Edward J., assignor to The Thurber Corporation, New Orleans, La. Power transmission mechanism. 2,613,772, Oct. 14.

Tickler, Richard B., Baton Rouge, La., assignor to Standard Oil Development Company. Liquid-liquid extraction tower. 2,614,031, Oct. 14.

Tide Water Associated Oil Company, assignee: *See*—
Churchill, Leonard R.

Timmons, William D., assignor to Pretty Products, Inc., Coshocton, Ohio. Bathing cap. 2,613,358, Oct. 14.

Titchener, E. H., & Co., assignee: *See*—
Wayne, Edward T.

Tobacco Machine Supply Company, Inc., assignee: *See*—
Giles, William J.

Toland, Wayne G., Canton, Ill., assignor to International Harvester Company. Hydraulic ram attachment for implements. 2,613,584, Oct. 14.

Tonnelé, André M., Fez, Morocco. Automatic device for landing aircraft. 2,613,889, Oct. 14.

Torrey, Lee E., Ypsilanti, assignor to King-Seeley Corporation, Ann Arbor, Mich. Drill press. 2,614,007, Oct. 14.

Traill, David: *See*—
Simpson, George K., and Traill.

Transue, Edward S., Denver, Colo. Portable road signal. 2,613,463, Oct. 14.

Trerice, H. O., Company: *See*—
Myers, Errol L.

Trerice, Howard O.: *See*—
Myers, Errol L.

Triangle Package Machinery Company, assignee: *See*—
Muskat, Louis R.

Trico Products Corporation, assignee: *See*—
Oishei, John R.

Triman, Eugene L., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill. Electrically operated accumulator. 2,613,791, Oct. 14.

Troyan, James E.: *See*—
Uraneck, Carl A., St. John, Fryling, and Troyan.

Trudeau, Max O., Jackson Heights, assignor to Morey Machinery Co., Inc., Astoria, N. Y. Chucking device for lathes. 2,613,943, Oct. 14.

Tucker, Alfred W.: *See*—
Vaughn, Stanley I., and Tucker.

Tucker, Charles M.: *See*—
Uraneck, Carl A., Tucker, and St. John.

Tucker, Irvin L., Cedar Rapids, Iowa. Fountain brush implement. 2,613,381, Oct. 14.

Turnbull, Norris: *See*—
Bristol, John E., and Turnbull.

Turnbull, Norris, Grand Island, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation of polyvinyl acetate emulsions. 2,614,087, Oct. 14.

Turner, George L.: *See*—
Elliott, Morris R., and Turner.

Turner, Thomas W., Newport News, Va. Frozen confection on a stick. 2,614,047, Oct. 14.

Tuttle, Mary C., Menlo Park, assignor of twenty-five per cent to L. C. Gillen, and twenty-five per cent to T. J. Portello, San Francisco, Calif. Yarn or thread holder. 2,613,885, Oct. 14.

Twist, Thomas O.: *See*—
Roper, John M., and Twist.

Tynan, Andrew G., deceased, by G. R. Tynan, administratrix, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich. Signal actuated tuner control. 2,614,213, Oct. 13.

Tynan, Geneva R., administratrix: *See*—
Tynan, Andrew G.

Umaniec, Andrew, Minneapolis, Minn. Bumper structure. 2,613,976, Oct. 14.

Ulrich, Theodore, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Vehicle body cowl construction. 2,613,985, Oct. 14.

Ungerleider, Henry S.: *See*—
McGhan, Elmer W., and Ungerleider.

Union Metal Manufacturing Company, The, assignee: *See*—
Anderson, W. Carl, and Dewey.

Union Oil Company of California, assignee: *See*—
Reed, Homer C., Berg, and Leffert.

United Gas Pipe Line Company, assignee: *See*—
Wood, Jesse W.

United Shoe Machinery Corporation, assignee: *See*—
Courchene, Theodore P.
Crowell, Ernest M.
Finn, Sidney J.
Mariner, Norman E., and Knowles.
Oswald, Alfons.
Russ, Harley W., and Joiner.
Shaffer, Walter D.
Stelmen, Lawrence E.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Bacon, Conrad G.
Schlesinger, Hermann I., and Brown.

United States Rubber Company, assignee: *See*—
Ericson, Donald E., and Kwierant.
Ternes, Raymond F.

Universal Oil Products Company, assignee: *See*—
Becker, Harold A.
Chenicek, Joseph A.
Pines, Herman, Kvetinskas, and Ipatieff.

Uraneck, Carl A., Borger, and S. H. Landes, Phillips, Tex., assignors to Phillips Petroleum Company. Emulsion polymerization of a conjugated diene with a heavy hydroperoxide and a hyposulfite. 2,614,098, Oct. 14.

Uraneck, Carl A., Borger, C. M. Tucker, Phillips, and W. M. St. John, Jr., Borger, Tex., assignors to Phillips Petroleum Company. Stabilized activators and their use in emulsion polymerization. 2,614,100, Oct. 14.

Uraneck, Carl A., and W. M. St. John, Borger, and C. F. Fryling and J. E. Troyan, Phillips, Tex., assignors to Phillips Petroleum Company. Activator compositions and their use in emulsion polymerization. 2,614,101, Oct. 14.

Valley Research Corporation, assignee: *See*—
Dalton, Thomas B.

Vance, John E., assignor to The Hoover Company, North Canton, Ohio. Temperature control dial for electric irons. 2,613,460, Oct. 14.

Van Doorne, Hubertus J., Deurne, Netherlands. Motor vehicle engine mounting. 2,613,754, Oct. 14.

Van Doorne, Hubertus J., Deurne, Netherlands. Self-loading and unloading vehicle. 2,613,827, Oct. 14.

Van Nest, Francis H., and L. B. Wales, Marblehead, Mass., assignors to General Electric Company. Valve gear for steam turbines and the like. 2,613,542, Oct. 14.

Vapor Heating Corporation, assignee: *See*—
Russell, Edward A., Lehane, and Pidgeon.

Varco, Charles B., La Crosse, Wis. Mechanical speed planter. 2,613,850, Oct. 14.

Varis, Peter, Long Beach, Calif. Electric fan with heating attachment. 2,614,201, Oct. 14.

Vaughan, William C., assignee: *See*—
Gardner, Harve E., Jr.

Vaughn, Chester D., Woodward, Okla. Hair curler. 2,613,679, Oct. 14.

Vaughn, Sidney P., San Diego, Calif. Packaging hygroscopic sponges. 2,613,487, Oct. 14.

Vaughn, Sidney P., San Diego, Calif. Packaging hygroscopic sponges. 2,613,862, Oct. 14.

Vaughn, Stanley L., and A. W. Tucker, Columbus, Ohio, assignors to Curtiss-Wright Corporation. Drop stretch forming. 2,613,718, Oct. 14.

Vet, Dirk: *See*—
Sher, Alfred, and Vet.

View, Stanley E., Chicago, Ill., assignor to Kollte Incorporated. Ultraviolet light fixture. 2,613,465, Oct. 14.

Voge, Jean P., Paris, France. Oscillating and amplifying vacuum tube for very short waves. 2,614,234, Oct. 14.

Volk, Joseph A., Normandy, Mo. System of seismographic visual recording. 2,614,228, Oct. 14.

Von Kameniczky, Daniel W., Elmhurst, N. Y. Pencil point sharpener. 2,613,645, Oct. 14.

Vroom, Edward, Ossining, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal transmitter. 2,614,168, Oct. 14.

Waeselynck, Raymond F. M., Indret, par Basse-Indre, assignor of one-half to Societe Rateau (Societe Anonyme) Paris, France. Anticavitation device for removing boiling liquids from steam and water drums. 2,613,655, Oct. 14.

Wagner Electric Corporation, assignee: *See*—
Johnson, Edward D.
Milster, Arthur N.

Wagner, Julius A.: *See*—
Adams, Robert T., and Wagner.

Wagner, Samuel, and T. K. Kellner, Sheridan, Wyo. Christmas tree stand. 2,613,899, Oct. 14.

Wald, Samuel, Bronx, N. Y. Fuel saving furnace. 2,613,653, Oct. 14.

Waldo, Pharez G.: *See*—
Caesar, Philip D., Waldo, and Crowley.

Wales, Lawrence B.: *See*—
Van Nest, Francis H., and Wales.

Walker, Frank G., Santa Barbara, Calif. Vacuum cleaner air nozzle and adjustable brush therefor. 2,613,388, Oct. 14.

Wallace, David A., Grosse Pointe Farms, Mich. Hoisting apparatus. 2,613,914, Oct. 14.

Walmsley, Leslie L., Ridley Park, assignor to American Viscose Corporation, Philadelphia, Pa. Apparatus for handling tricot fabrics. 2,613,521, Oct. 14.

Walraven, George M., and R. G. Knudsen, assignors to Snap-on Tools Corporation, Kenosha, Wis. Adjustable and reversible stud removers and resetters. 2,613,564, Oct. 14.

Walsh, Edward C., Oak Ridge, Tenn., assignor to Flakice Corporation, Brooklyn, N. Y. Ice-making machine. 2,613,511, Oct. 14.

Walter, Orren J., Cheyenne, Wyo. Tank ball guide. 2,613,366, Oct. 14.

Wanderer, Kenneth H., Chicago, Ill., L. A. Hays, Jr., Hammond, and R. B. Selund, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill. Propane dewaxing chilling procedure. 2,614,065, Oct. 14.

War, United States of America as represented by the Secretary of, assignee: *See*—
Stodola, Edwin K.

Ward, Lawrence T., assignor to Prel Incorporated, East Orange, N. J. Cartridge for pressure dispensing devices. 2,613,849, Oct. 14.

Warren, Glenn B., Schenectady, N. Y., assignor to General Electric Company. Compound turbine power plant with intercept valve. 2,613,504, Oct. 14.

Waterbury Metal Stamping Co., The, assignee: *See*—
Brown, Max.

Waterman, Gene, assignee: *See*—
Waterman, Samuel A.

Waterman, Samuel A., Miami, Fla., assignor, by mesne assignments, to S. A. and G. Waterman. Mobile transfer device for a litter and operating table. 2,613,372, Oct. 14.

Watkins, Victor L., Salina, Kans. Electromagnetically actuated sign structure. 2,614,145, Oct. 14.

Wayne, Edward T., Port Crane, assignor to E. H. Titchener & Co., Binghamton, N. Y. Poultry shackle. 2,613,390, Oct. 14.

Webber, George H.: *See*—
Consalvi, Anthony L., Webber, and Lawrence.

Weber, Milton N., assignor of one-half to H. W. Link, Detroit, Mich. Pneumatic load indicating device. 2,613,925, Oct. 14.

Webster, Warren, & Company, assignee: *See*—
Stone, John, 4th.

Weidenman, William T., Spring Valley, assignor to Telephonics Corporation, Huntington, N. Y. Electrical impulse transmitter. 2,613,552, Oct. 14.

Weiland, Edward A., Garfield Heights, assignor to The Hoover Company, North Canton, Ohio. Control for electric irons. 2,613,461, Oct. 14.

Weimar, Hans C., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I. Hydraulic control valve. 2,613,906, Oct. 14.

Weiser, George L.: *See*—
Nichols, Charles A., Bower, Weiser, Edwards, Fletcher, McCoy, and Sample.

Welch, Lester M., Madison, N. J., assignor to Standard Oil Development Company. Lubricating oil additive materials. 2,614,080, Oct. 14.

Weldon, Joseph T., assignor, by mesne assignments, to Multiscreen Corporation, New York, N. Y. Revolving multiple color screen process printing table. 2,613,595, Oct. 14.

Wells, Ralph L., deceased, Dunedin, Fla., by T. S. Wells, executrix. Delayed-action electric switch. 2,614,182, Oct. 14.

Wells, Tilton S., executrix: *See*—
Wells, Ralph L.

Wender, Irving, and M. Orchin, Pittsburgh, Pa., assignors to the United States of America as represented by the Secretary of the Interior. Reduction of carbonyl compounds. 2,614,107, Oct. 14.

Wenzelberger, Elwood P., assignor to Commonwealth Engineering Company of Ohio, Dayton, Ohio. Extraction and treatment of fruit products. 2,614,048, Oct. 14.

Werbin, Sanford J., assignor to Stein, Hall & Company, Inc., New York, N. Y. Enhancing the whipping properties of egg albumen solutions and whippable egg albumen compositions. 2,614,046, Oct. 14.

Werner, Willy: *See*—
Steyer, Friedhelm, and Werner.

Wescott, John E., Hagerstown, Md., assignor to Fairchild Engine and Airplane Corporation. Quick disconnect holding means. 2,613,961, Oct. 14.

West, Thomas S., San Antonio, Tex. Well tester. 2,613,747, Oct. 14.

Western Electric Company, Incorporated, assignee: *See*—
Adams, Robert T., and Wagner.
McNair, Irving M.
Soderman, George W.

Westinghouse Air Brake Company, assignee: *See*—
Bone, Herbert L.
Gilson, Robert M., and Martin.
Sorensen, Andrew J.
Taylor, Herbert L., and Hedding.

Westinghouse Electric Corporation, assignee: *See*—
Morton, Eldred O.

Wheelock, George L., Coventry Township, Summit County, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparation of synthetic polymeric materials. 2,614,093, Oct. 14.

Wheelock, George L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Plasticized vinyl resin compositions and preparing the same. 2,614,094, Oct. 14.

Whitaker, Carl F., Beverly, Mass. Bobbin stripping apparatus. 2,613,425, Oct. 14.

Whitaker, Uncas A., Harrisburg, Pa., assignor to The Hoover Company, North Canton, Ohio. Expanding mouth filter for suction cleaning devices. 2,613,760, Oct. 14.

White Cap Company, assignee: *See*—
Williams, Raymond H.

White, Francis, Littlefork, Minn. Auxiliary wheel for tractors. 2,613,955, Oct. 14.

White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Demonstrating device for suction cleaners. 2,613,454, Oct. 14.

Whitney, Claire E., Houston, Tex., assignor to Baker Oil Tools, Inc., Vernon, Calif. Collar locating and tool operating device. 2,613,746, Oct. 14.

Whitney, Forrest J., Jr., Wayne, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Cold drawing sheet metal. 2,613,626, Oct. 14.

Wickardt, Kurt W., assignor to Hosemaster Machine Company Limited, Liverpool, England. Thread carrier driving mechanism for straight bar knitting machines. 2,613,519, Oct. 14.

Widdcomb, John, Company, assignee: *See*—
McPhee, John E.

Widmer, Alfred E.: *See*—
Greenfield, Eugene W., and Widmer.

Wiegand, Francis J., Ridgewood, W. T. Stark, Pompton Lakes, and M. R. Rowe, Teaneck, N. J., assignors to Curtiss-Wright Corporation. Liquid distributing system. 2,613,687, Oct. 14.

Wieland, Jacob, Gorinchem, assignor to De Vries Robbe & Co. N. V., Arkelschedijk, Gorinchem, Netherlands. Tilting door. 2,613,401, Oct. 14.

Wilcolator Company, The, assignee: *See*—
Fallon, David G.

Wilkie Company, The, assignee: *See*—
McLaughlin, John J.

Will, Wilbert A., assignor to Crown Controls Company, Inc., New Bremen, Ohio. Damper motor. 2,613,543, Oct. 14.

Williams, Albert J., Jr., and R. E. Tarpley, assignors to Leeds and Northrup Company, Philadelphia, Pa. Vibratory type of synchronous converter. 2,614,188, Oct. 14.

Williams, Alfred L. W., Cleveland Heights, assignor to The Brush Development Company Cleveland, Ohio. Electromechanical transducer. 2,614,143, Oct. 14.

Williams, Clark H., New York, N. Y. Cushion support for typewriters. 2,613,898, Oct. 14.

Williams, Joseph H., Alameda, Calif. Mechanism for teaching the piano. 2,613,569, Oct. 14.

Williams, Raymond H., assignor to White Cap Company, Chicago, Ill. Ring shaped closure remover. 2,613,833, Oct. 14.

Willison, Ernest: *See*—
Newhall, Welrose L., Willison and Stevens.

Willomitzer, Adolf E., Salt Lake City, Utah. Multiple mold continuous plastic forming machine. 2,613,619, Oct. 14.

Wilson, Herbert W.: *See*—
Sutton, Otis B., and Wilson.

Wilson, Herbert W., assignor to The Hoover Company, North Canton, Ohio. Switch casing. 2,614,196, Oct. 14.

Wimberly, Sam B., and D. R. Self, Birmingham, Ala. Combined punch and pencil device. 2,613,745, Oct. 14.

Winslow Engineering Co., assignee: *See*—
Moore, Laurence L.

Winsten, Walter A., Forest Hills, assignor to Food Research Laboratories, Inc., Long Island City, N. Y. Derivatives of para-amino salicylic acid. 2,614,104, Oct. 14.

Witt, Robert M., North Riverside, Ill. Bracket for outboard motors. 2,613,896, Oct. 14.

Wolf, Harry S., Brooklyn, N. Y. Film holder. 2,613,580, Oct. 14.

Wolters, August W., Southampton, N. Y. Money box. 2,613,622, Oct. 14.

Woo, Howard F., assignee: *See*—
Darr, Harold W.

Woo, Lolita Y., assignee: *See*—
Darr, Harold W.

Wood, Jesse W., assignor to United Gas Pipe Line Company, Shreveport, La. Transferring liquid samples from pressure vessels. 2,613,848, Oct. 14.

Wood Newspaper Machinery Corporation, assignee: *See*—
Roesen, Oscar C.

Woodhall, Harold, assignor to Allen & Hanburys Limited, London, England. Neurosurgical operating chair. 2,613,725, Oct. 14.

Woods, Robert J., Grand Island, assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Aircraft with radar antenna. 2,613,887, Oct. 14.

Woodward Governor Company, assignee: *See*—
Bailey, Frank N., and Humpal.

Woody, Joseph R., Stuarts Draft, Va. Container cap-supporting attachment. 2,613,842, Oct. 14.

Worden, Edward C., Averill Park, N. Y. Chock block for vehicles. 2,613,764, Oct. 14.

Wright, Arthur, assignor to Wright Engineering Company, Mountain Lakes, N. J. Radiographic equipment. 2,614,224, Oct. 14.

Wright Engineering Company, assignee: *See*—
Wright, Arthur.

Wylie, Hamilton N., Richmond, assignor to Dunlop Rim & Wheel Co. Ltd., London, England. Windshield wiper having a curved spring wiper arm. 2,613,385, Oct. 14.

Yancey, Joseph L., Great Bend, Kans. Device for separating water from crude oil. 2,613,812, Oct. 14.

Yates-American Machine Company, assignee: *See*—
Dudek, Gustave C.

Young, Richard H., Columbus, Ohio, assignor to Curtiss-Wright Corporation. Airfoil construction. 2,613,893, Oct. 14.

Yuan, John C. C., Washington, D. C. Coffee table with vertically adjustable top. 2,614,012, Oct. 14.

Yutang, Lin, New York, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Visual selecting device for Chinese typewriters and the like. 2,613,794, Oct. 14.

Yutang, Lin, New York, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Chinese typewriter. 2,613,795, Oct. 14.

Ziebolz, Herbert, D. T. Gundersen and R. K. Baetzmann, assignors to Askania Regulator Company, Chicago, Ill. Positioning control system for remote elements, including hydraulic transmission units. 2,613,502, Oct. 11.

Ziegelmeyer, Lynn J., North Hollywood, Calif. Pressure operated reciprocating valve. 2,613,652, Oct. 14.

Zimmerman, Bernhard G., Guilford College, N. C. Reaction product of starch with glycolalkylolamine condensates for the sizing of textile warp strands. 2,614,103, Oct. 14.

Zimsky, John J.: *See*—
Sefton, Robert C., and Zimsky.

Zubienko, Joseph, Cleveland, Ohio. Apparatus for guiding hot metal stock. 2,613,559, Oct. 14.

Zuckerman, Samuel G., New York, N. Y. Micrometer. 2,613,445, Oct. 14.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Control of impedance of semiconductor amplifier circuits. H. L. Barney. Re. 23,563, Oct. 14.
Harvester, Beet. E. V. Waack and E. J. Floeter. Re. 23,565, Oct. 14.
Multiple cavity mold. J. R. Hobson. Re. 23,564, Oct. 14.

LIST OF PLANT INVENTIONS

Camellia plant. R. L. Wheeler. 1,137, Oct. 14.
Raphiolepis plant. H. L. Marken and W. J. Marken. 1,138, Oct. 14.
Rose plant. A. P. Howard. 1,136, Oct. 14.

LIST OF DESIGN INVENTIONS

Animal figure or the like. M. Tuteur. 167,960, Oct. 14.
Box, Cosmetic. H. S. Blauvelt. 167,922, Oct. 14.
Brush for kitchen utensils or the like. C. A. Porter. 167,950, Oct. 14.
Cabinet for a phonograph remote-control unit. D. C. Rockola. 167,953, Oct. 14.
Candelabrum. V. H. Bisharat. 167,924, Oct. 14.
Chair. J. M. Hofgesang. 167,940, Oct. 14.
Chart, Height record. T. Larson. 167,945, Oct. 14.
Clothesbrush or the like. C. A. Porter. 167,951, Oct. 14.
Compact or similar article. P. E. Fiato. 167,935, Oct. 14.
Cooky jar and bank, Combination. L. H. Dworkin. 167,931, Oct. 14.
Cup. D. E. Folley. 167,936, Oct. 14.
Deck of playing cards. A. V. Bigley. 167,923, Oct. 14.
Deck of playing cards. E. L. Vervuurt. 167,961, Oct. 14.
Dinner plate or similar article. P. S. Vreeland. 167,962, Oct. 14.
Display fixture and container, Combined. E. J. McKenna. 167,948, Oct. 14.
Flashlight casing. E. Cameron, Jr. 167,925, Oct. 14.
Game board. V. S. Packard. 167,949, Oct. 14.
Golf club head. A. R. Jamison. 167,941, Oct. 14.
Grille bar for an automobile. H. T. King. 167,943, Oct. 14.
Handbag, Frame. M. Grossman. 167,939, Oct. 14.
Handbag or the like, Lady's. L. L. Stucker. 167,959, Oct. 14.
Holder, Pencil. E. Friedel. 167,937, Oct. 14.
Holder, Silverware. A. A. Liblick. 167,946, Oct. 14.
Instrument for measuring humidity and temperature. D. G. Erskine, Jr. 167,933, Oct. 14.
Instrument, Surveying. L. Churgin. 167,926, Oct. 14.
Jar, Cosmetic. H. P. Ansehl. 167,921, Oct. 14.
Light fixture, Aquarium. A. S. Dribnack. 167,930, Oct. 14.
Link chain for a bracelet or the like, Expansible. E. Rodriguez. 167,954–5, Oct. 14.
Macaroni. A. Ronzoni. 167,956, Oct. 14.
Mailbox. S. H. Coward, Jr. 167,928, Oct. 14.
Muller. R. H. McElroy. 167,947, Oct. 14.
Placemat, Silverware. M. W. Jones. 167,942, Oct. 14.
Plate, Dinner. F. F. Errill. 167,932, Oct. 14.
Rack, Corner. S. L. Snyder. 167,958, Oct. 14.
Stand, Display. H. M. Cohn. 167,927, Oct. 14.
Stocking. I. Rabinowitz. 167,952, Oct. 14.
Toy dog or the like. W. P. Doe. 167,929, Oct. 14.
Toy, Figure trundle. H. G. Fisher, W. P. Doe, and L. W. Sly. 167,934, Oct. 14.
Trailer door fastener. G. M. Grindstad. 167,938, Oct. 14.
Tray, Serving. T. H. Simpson. 167,957, Oct. 14.
Utility clip for automobiles. E. R. Kolenda and V. V. Postillion. 167,944, Oct. 14.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 14TH DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasion resistant electric cable. W. H. Benton, Jr. 2,614,147, Oct. 14.
Acoustical cloth. J. A. MacIntyre. 2,613,696, Oct. 14.
Activator compositions and their use in emulsion polymerization. C. A. Uraneck, W. M. St. John, C. F. Fryling, and J. E. Troyan. 2,614,101, Oct. 14.
Actuating mechanism for reciprocating carriages. R. E. Crossley. 2,613,541, Oct. 14.
Adjustable and reversible stud removers and resetters. G. M. Walraven and R. G. Knudsen. 2,613,564, Oct. 14.
Aerated bait container. E. A. Ebert. 2,613,472, Oct. 14.
Aerial pickup and release device. L. R. S. Jessen. 2,613,921, Oct. 14.
Aerial system. R. H. J. Cary. 2,614,219, Oct. 14.
Air blast circuit breaker with switching resistance. M. Cremer. 2,614,193, Oct. 14.
Air conditioning apparatus. P. O. Jordan. 2,614,202, Oct. 14.
Air-cooled tapping attachment. M. H. Emrick. 2,613,786, Oct. 14.
Aircraft castorable or steerable landing element mountings. H. R. Stratford. 2,613,888, Oct. 14.
Aircraft control apparatus. L. E. Alberts. 2,614,236, Oct. 14.
Aircraft tank assembly and supporting means for the same. F. B. Johnson and G. A. Starleaf. 2,613,715, Oct. 14.
Aircraft with radar antenna. R. J. Woods. 2,613,887, Oct. 14.
Airfoil construction. R. H. Young. 2,613,893, Oct. 14.
Air gap construction. J. W. Kalb. 2,614,232, Oct. 14.
Alkyl sulfone derivatives of 1:4-diaroylamino 6:7-dichloro anthraquinones. W. Jenny and W. Kern. 2,614,109, Oct. 14.
Alkyl thiophene sulfonate wetting agents and making same. P. D. Caesar, P. G. Waldo, and D. J. Crowley. 2,614,084, Oct. 14.
α,α-N-trimethyl succinimide. R. W. Stoughton. 2,614,106, Oct. 14.
Aluminum alloy tubing and product, Making. R. V. Bobb and R. G. Brunger. 2,614,053, Oct. 14.
Ammonization. P. Kalkinger. 2,614,040, Oct. 14.
Anchor for high-tension loading bands for gondola cars. E. G. Goodwin. 2,613,614, Oct. 14.
Angle post and shoring head. T. Sato. 2,613,904, Oct. 14.
Animal trap. F. B. Heibel. 2,613,473, Oct. 14.
Anion exchange resins. W. C. Bauman and R. McKellar. 2,614,099, Oct. 14.
Antenna, Television. S. T. Doerner. 2,614,220, Oct. 14.
Anticavitation device for removing boiling liquids from steam and water drums. R. F. M. Waeselynck. 2,613,655, Oct. 14.
Apparatus and method for producing disk phonograph records. A. I. Massler. 2,613,395, Oct. 14.
Apparatus for advancing electrical cordage. R. T. Adams and J. A. Wagner. 2,613,426, Oct. 14.
Apparatus for charging and sealing tubing with solder. C. F. Louthan and G. B. Long. 2,613,863, Oct. 14.
Apparatus for cutting sheets from webs of cardboard, paper, and the like. J. E. Battersby. 2,613,741, Oct. 14.
Apparatus for expressing oil. C. T. Nemir. 2,613,592, Oct. 14.
Apparatus for filling containers. C. F. Carter. 2,613,864, Oct. 14.
Apparatus for gluing-off and end sheet pasting. E. K. Smith, Jr., and C. W. Buckley. 2,613,375, Oct. 14.
Apparatus for guiding hot metal stock. J. Zublenko. 2,613,559, Oct. 14.
Apparatus for handling tricot fabrics. L. L. Walmsley. 2,613,521, Oct. 14.
Apparatus for heating and handling bituminous materials. W. J. Miller. 2,613,665, Oct. 14.
Apparatus for heating orchards and the like. H. E. Ringle. 2,613,478, Oct. 14.
Apparatus for interlockably assembling fastener stringers. F. H. Rojahn. 2,613,433, Oct. 14.
Apparatus for making structural elements for buildings. J. C. Davis. 2,613,423, Oct. 14.
Apparatus for manufacturing inner tubes. R. F. Ternes. 2,613,392, Oct. 14.
Apparatus for packaging frozen fruit juices. G. R. Attride. 2,613,488, Oct. 14.
Apparatus for preparing citrus fruit. W. A. Boden. 2,613,711, Oct. 14.
Apparatus for processing surfaces of cylindrical articles and the like. E. J. Anderson. 2,613,631, Oct. 14.
Apparatus for processing surfaces of tubular articles such as steel drums and the like. S. S. Johns and W. Funk. 2,613,634, Oct. 14.
Apparatus for producing wrinkle texture on nonwrinkling films. W. F. Flanagan. 2,613,393, Oct. 14.
Apparatus for spectrophotometry. P. C. Mathieu. 2,613,572, Oct. 14.
Apparatus for spraying rotating radial surfaces. W. MacWilliam. 2,613,635, Oct. 14.
Apparatus for treating fabrics and uncurling the edges thereof. R. D. Heffelfinger. 2,613,522, Oct. 14.
Apparatus for treating glassware. C. E. Mongan, Jr. 2,613,480, Oct. 14.
Arch support. J. A. Amico. 2,613,455, Oct. 14.
Arch support and metatarsal pad. J. A. Amico. 2,613,456, Oct. 14.
Archery bow, Glass fiber-reinforced. F. B. Bear. 2,613,660, Oct. 14.
Arrow adapter for sling shots. A. W. Hutson. 2,613,659, Oct. 14.
Article forming apparatus. R. T. Adams and J. A. Wagner. 2,613,427, Oct. 14.
Article of furniture, Reclining. A. Lorenz. 2,613,727, Oct. 14.
Article of luggage hardware. D. Levine. 2,613,771, Oct. 14.
Articulated conveyer take-up. J. Merck. 2,613,800, Oct. 14.
Articulator for making artificial dentures. A. P. Murray and O. E. Barthel. 2,613,440, Oct. 14.
Artificial bait. E. L. Graycik. 2,613,471, Oct. 14.
Artificial flower and cluster and making same. D. and H. Glasgow. 2,614,036, Oct. 14.
Artificial teeth. J. A. Saffir. 2,613,439, Oct. 14.
Assembler slide return. D. Diamond. 2,613,803, Oct. 14.
Atomizer, Liquid fuel. W. J. Linn. 2,614,037, Oct. 14.
Automatic barrel handling device for horn presses. S. S. Johns. 2,613,823, Oct. 14.
Automatic cutoff valve. C. E. Baird and P. V. Mullins. 2,613,683, Oct. 14.
Automatic device for landing aircraft. A. M. Tonnelé. 2,613,889, Oct. 14.
Automatic flock feeder. N. Cordis. 2,613,641, Oct. 14.
Automatic sear for automatic firearms. P. De Kiraly. 2,613,577, Oct. 14.
Automatic steering system. T. T. Eaton. 2,614,249, Oct. 14.
Auxiliary spring attachment for motion-picture cameras. J. J. Golick and R. L. Moore. 2,613,761, Oct. 14.
Awning. J. A. Jones. 2,613,404, Oct. 14.
Axial flow compressor. R. Anxionnaz and R. J. Imbert. 2,613,869, Oct. 14.
Axle suspension for tandem axle vehicles, Torsion-type. F. W. Avila. 2,613,954, Oct. 14.
Backing clamp for trailers. W. C. Anderson and S. L. Dewey. 2,613,946, Oct. 14.
Backspacing mechanism. C. L. Bossmeyer. 2,613,938, Oct. 14.
Bale loading attachment for balers. L. E. and T. M. Bruns. 2,613,591, Oct. 14.
Bale tension means. W. H. Graybill. 2,613,590, Oct. 14.
Bathing cap. W. D. Timmons. 2,613,358, Oct. 14.
Battery holding device. C. A. Newby and D. W. Steinbrecher. 2,613,755, Oct. 14.
Battery lifter. T. R. Gottstein. 2,613,982, Oct. 14.
Bed, Turnover. K. S. Keyes, Jr. 2,613,371, Oct. 14.
Belleville rotator and spring surge damper. C. B. Leach. 2,613,656, Oct. 14.
Bellows pump. R. T. Sheen and R. B. Saalfrank. 2,613,607, Oct. 14.
Belt, Safety. C. W. Rose. 2,613,865, Oct. 14.
β-Hydroxyalkyl diesters of dicarboxydiphenyl sulfones and preparing same. J. R. Caldwell. 2,614,120, Oct. 14.
Beverage case. O. C. Coles, Jr. 2,613,839, Oct. 14.
Bilge drum assembling machine. A. Leake. 2,613,625, Oct. 14.
Billfold and coin purse, Combined. D. B. Jeffery. 2,613,716, Oct. 14.
Binder and display easel, Combined. E. W. Ericson. 2,613,956, Oct. 14.
Blade-dispensing magazine. N. Testi. 2,613,806, Oct. 14.
Boat cradle. J. S. Howard, Jr., and W. P. O. Clarke. 2,613,821, Oct. 14.
Bobbin stripping apparatus. C. F. Whitaker. 2,613,425, Oct. 14.
Boring machine. G. Brinkmann. 2,613,554, Oct. 14.

Bottle case. R. W. Cooper. 2,613,841, Oct. 14.
Box: *See*—
Money box.
Bracket for outboard motors. R. M. Witt. 2,613,896, Oct. 14.
Brake: *See*—
Vehicle brake.
Brake. H. J. Butler. 2,613,765, Oct. 14.
Brake beam. C. K. Stillwagon. 2,613,767, Oct. 14.
Brake rigging. A. M. Miers. 2,613,766, Oct. 14.
Brassière. W. M. Russell. 2,613,356, Oct. 14.
Brassière Nursing. J. A. Coleman. 2,613,355, Oct. 14.
Brush, Rotary vehicle washing. L. J. Rousseau. 2,613,383, Oct. 14.
Buckle, Belt. M. Medlin. 2,613,417, Oct. 14.
Buckle for holding ribbons. M. Brown. 2,613,420, Oct. 14.
Bumper hitch. A. N. Milster. 2,613,949, Oct. 14.
Bumper structure. A. Ulmaniec. 2,613,976, Oct. 14.
Buttonhole guide for facilitating layout of buttonholes. M. Helmlich. 2,613,446, Oct. 14.
Button or cuff link, Sewless. J. Ibanez. 2,613,418, Oct. 14.
Cabinet: *See*—
Interlocking filing cabinet. Refrigerator cabinet.
Cabinet drawer, Filing. H. H. Olson and M. A. Johnson. 2,614,019, Oct. 14.
Cable: *See*—
Abrasion resistant electric cable. High impedance shielded twin conductor cable.
Can opener auxiliary. M. H. Shulman. 2,613,846, Oct. 14.
Cap: *See*—
Bathing cap.
Car coupling. N. Clark. 2,613,820, Oct. 14.
Carbonizing subdivided solids. G. L. Matheson. 2,614,069, Oct. 14.
Carpet sweeper wheel linkage. P. Heftler. 2,613,380, Oct. 14.
Carrier: *See*—
Golf bag carrier.
Cart, Folding utility. P. Rusnak. 2,613,951, Oct. 14.
Carton. H. W. Darr. 2,613,867, Oct. 14.
Cartridge for pressure dispensing devices. L. T. Ward. 2,613,849, Oct. 14.
Case: *See*—
Beverage case. Time controlled cigarette case.
Bottle case.
Metallic cellular beverage case.
Catalase from red blood cells and whole blood, Preparation of. H. L. Keil. 2,614,063, Oct. 14.
Catalase, Preparation of. H. L. Keil. 2,614,062, Oct. 14.
Catalyst vessel. E. F. Brummerstedt. 2,614,034, Oct. 14.
Cathode follower photoelectric direct current amplifier circuit. R. W. Bordewieck, J. O. Roebuck and N. M. Sleeper. 2,614,227, Oct. 14.
Cathode-ray tube for polychrome television apparatus. E. O. Lawrence. 2,614,231, Oct. 14.
Centrifugal clutch. R. Chilton. 2,613,784, Oct. 14.
Chair: *See*—
Folding chair.
Neurosurgical operating chair.
Chair for use in X-ray photographing of teeth. Y. V. Pantero. 2,613,726, Oct. 14.
Charge forming device. I. E. Coffey. 2,613,658, Oct. 14. Oct. 14.
Chatterless countersink. G. C. Swenson. 2,613,558.
Chemical solution feeder. A. W. Frazier. 2,614,074, Oct. 14.
Child's car seat. J. K. Arnold. 2,613,724, Oct. 14.
Chock block for vehicles. E. C. Worden. 2,613,764, Oct. 14.
Christmas tree stand. S. Wagner and T. K. Kellner. 2,613,899, Oct. 14.
Chucking device for lathes. M. O. Trudeau. 2,613,943, Oct. 14.
Chucking means. G. O. Gridley. 2,613,941, Oct. 14.
Cigaret.e holder for automobile ash trays. D. Stepkin. 2,613,676, Oct. 14.
Circuit: *See*—
Counting circuit. Trigger circuit.
Dielectric test circuit.
Reactor - controlled electronic circuit.
Clamp: *See*—
Wood clamp.
Clamp. A. A. Hocher. 2,613,964–6, Oct. 14.
Clamp for bracelets. S. Ritter. 2,613,415, Oct. 14.
Cleaner: *See*—
Windshield cleaner.
Clip: *See*—
Plasterboard clip. Spring supporting clip.
Clock train periodic switch. A. Moutinho. 2,614,183, Oct. 14.
Closure and frame construction. A. G. Dean. 2,613,406, Oct. 14.
Closure operator. A. J. Cote. 2,613,928, Oct. 14.
Clutch: *See*—
Centrifugal clutch. Synchronized centrifugal clutch.
Combination spring-loaded and overcenter clutch. Synchronized centrifugal pawl clutch.
Multiple friction clutch.
Clutch for power transmission, Positive. J. B. Polomski and G. Karos. 2,613,781, Oct. 14.
Clutch or coupling, Vane type hydraulic. F. H. Milford. 2,613,779, Oct. 14.
Clutch plate with vibration dampner. L. F. Mohns. 2,613,785, Oct. 14.
Coaster brake for velocipedes. W. J. Campbell. 2,613,763, Oct. 14.
Code printsng attachment for tape dispensing machines. J. G. McKay. 2,613,598, Oct. 14.
Coffee making and dispensing apparatus, Automatic. D. F. Swanson. 2,613,588, Oct. 14.
Coin handling apparatus. R. F. Broussard and L. D. Soilenberger. 2,613,792, Oct. 14.
Coin handling apparatus. R. F. Broussard and H. J. Miller. 2,613,871, Oct. 14.
Cold drawing sheet metal. F. J. Whitney, Jr. 2,613,626, Oct. 14.
Collar locating and tool operating device. C. E. Whitney. 2,613,746, Oct. 14.
Color separation. W. C. Huebner. 2,614,042, Oct. 14.
Color television pickup tube. S. V. Forgue. 2,614,235, Oct. 14.
Comb, Barber's. H. E. Mandato. 2,613,678, Oct. 14.
Combination cabinet. W. Engel. 2,614,018, Oct. 14.
Combination spring-loaded and overcenter clutch. R. A. Carlson. 2,613,777, Oct. 14.
Combination staking tool. G. O. Martin. 2,613,434, Oct. 14.
Combing and cutting implement. E. MacGregor. 2,613,477, Oct. 14.
Composition for and methods of preserving the freshness of botanical products after severance thereof from living plants. C. L. Hamner. 2,614,039, Oct. 14.
Compound turbine power plant with intercept valve. G. B. Warren. 2,613,504, Oct. 14.
Compressing machine such as centrifugal blower or pump. A. Blichl. 2,613,609, Oct. 14.
Compressor cylinder head assembly. W. F. Borgerd. 2,613,870, Oct. 14.
Condensate disposal means. W. F. Borgerd and J. Calling. 2,613,514, Oct. 14.
Condensation products of phenol, formaldehyde, and unsubstituted mononuclear dihydric phenols. R. J. Spahr. 2,614,096, Oct. 14.
Connecting means for parallel tubes. E. C. Ritter. 2,613,957, Oct. 14.
Connector: *See*—
Fused electrical connector.
Constant delivery pump. M. R. Sheen. 2,613,606, Oct. 14.
Container: *See*—
Aerated bait container. Sealable food container.
Jet engine container. Shipping container.
Luggage container.
Container cap-supporting attachment. J. R. Woody. 2,613,842, Oct. 14.
Container for feeding suckling calves. E. J. Hiller. 2,613,642, Oct. 14.
Container having hermetic sealing means, Self-heating. E. J. Rivoche. 2,613,664, Oct. 14.
Continuous adsorption process. C. E. Ockert. 2,614,133, Oct. 14.
Continuous settling apparatus. F. M. Archibald. 2,613,811, Oct. 13.
Control device. J. W. McNairy. 2,613,630, Oct. 14.
Control for electric irons. E. A. Weiland. 2,613,461, Oct. 14.
Control for fluid pumping and dispensing machines. N. R. Henry. 2,614,185, Oct. 14.
Control mechanism for vending and like machines. F. E. Erickson and L. K. Roe. 2,613,793, Oct. 14.
Control system. W. H. Halley. 2,613,878, Oct. 14.
Control system and variable linkage therefor. J. E. Knight. 2,613,891, Oct. 14.
Control system for electric appliances. D. G. Fallon. 2,614,109, Oct. 14.
Control valve, such as for refrigerating systems. W. G. Nolcken. 2,613,505, Oct. 14.
Controllable rocket thrust device. G. C. MacDonald. 2,613,497, Oct. 14.
Controlled distillation of Oxo alcohols containing high-boiling impurities. J. K. Mertzweiller. 2,614,128, Oct. 14.
Conveyer idler. W. A. Chapman. 2,613,802, Oct. 14.
Cooling system for continuous casting molds. I. Rossi. 2,613,411, Oct. 14.
Copper oxide rectifiers, Manufacture of. H. L. Taylor and L. K. Hedding. 2,614,052, Oct. 14.
Core barrel, Wire line. T. L. Long. 2,613,918, Oct. 14.
Corsage pin. B. E. Robinson. 2,613,412, Oct. 14.
Cotton picking machine. J. D. Rust. 2,613,492, Oct. 14.
Counting circuit. J. O. Edson and J. G. Kreer, Jr. 2,614,141, Oct. 14.
Coupling: *See*—
Car coupling. Vehicle coupling.
Overload release coupling.
Coupling for double-walled pipes. J. C. Richardson. 2,613,958, Oct. 14.

Coupling for threadless pipes. J. C. Richardson. 2,613,959, Oct. 14.
Coupling for tractor and semitrailer units. A. G. Talbert. 2,613,945, Oct. 14.
Cover: *See*—
Saddle cover.
Cover fastener. D. M. Morris. 2,613,969, Oct. 14.
Crate, Knockdown. B. T. Gill and H. Kemp. 2,613,834, Oct. 14.
Creamer. W. A. Frantz. 2,613,517, Oct. 14.
Crop drier and unloader. A. A. Anderson and B. C. Mathews. 2,613,452, Oct. 14.
Cultivator, Tractor-mounted. F. T. Blaydes and J. L. Bauman. 2,613,583, Oct. 14.
Curling. M. Fantell. 2,613,697, Oct. 14.
Currency denomination indicator. E. G. Smith. 2,614,162, Oct. 14.
Current collector head. R. W. Donaldson. 2,614,180, Oct. 14.
Current limiter. C. E. Mosley. 2,614,189, Oct. 14.
Curtain, Shower. M. Rosenbaum. 2,613,368, Oct. 14.
Cushion support for typewriters. C. H. Williams. 2,613,898, Oct. 14.
Cushion underframe. S. H. Fillion. 2,613,819, Oct. 14.
Cutter: *See*—
Masonry cutter.
Cutting mechanism and extrusion nozzle for continuously moving plastic bars. A. and G. Sharp. 2,613,618, Oct. 14.
Cylinder lock. J. E. Salmivuori. 2,613,528, Oct. 14.
DDT dispersions using carboxy methyl cellulose, Preparing. C. V. Coash. 2,614,061, Oct. 14.
Damper motor. W. A. Will. 2,613,543, Oct. 14.
Dedenting machine for closed end containers. E. C. Kradoska. 2,613,721, Oct. 14.
Delayed-action electric switch. R. L. Wells. 2,614,182, Oct. 14.
Delivery of liquids. C. Cooper. 2,613,681, Oct. 14.
Demonstrating device for suction cleaners. H. B. White. 2,613,454, Oct. 14.
Dental pad. J. W. Biggs. 2,613,441, Oct. 14.
Deodorizer block and holder. J. Lustek. 2,613,990, Oct. 14.
Depth adjustment for motor-driven cutting tools. E. P. Sacrey. 2,613,704, Oct. 14.
Derivatives of para-amino salicylic acid. W. A. Winsten. 2,614,104, Oct. 14.
Desk lighting unit and work surface. E. L. Canfield. 2,614,204, Oct. 14.
Desk, Multiple table. J. Mugnier. 2,614,017, Oct. 14.
Desolventizing materials by distillation. G. N. Harcourt. 2,614,073, Oct. 14.
Determining the direction of arrival of waves. R. G. Piety. 2,614,166, Oct. 14.
Determining the resistance of insulated joints. R. M. Gilson and P. N. Martin. 2,614,151, Oct. 14.
Device for operation of farm gates. M. E. Gifford. 2,613,972, Oct. 14.
Device for producing timed electrical impulses. G. Dorothea. 2,614,187, Oct. 14.
Device for receiving and extinguishing lighted cigarettes. B. S. Hawxhurst. 2,613,677, Oct. 14.
Device for separating water from crude oil. J. L. Yancey. 2,613,812, Oct. 14.
Device for sterilizing hollow thermoplastic articles by heat. P. Kollsman. 2,614,027, Oct. 14.
Device for timing and adjusting balance wheel assemblies. L. Nemenyi-Katz. 2,613,529, Oct. 14.
Dicarboxylic acids from saturated monocarboxylic acids, Preparation of. L. A. Mikeska. 2,614,122, Oct. 14.
Die assembly for striking tabs from moulding retainer strips or other similar workpieces. F. Bangerter. 2,613,743, Oct. 14.
Dielectric test circuit. L. E. Herborn. 2,614,152, Oct. 14.
Differential bellows pump. R. B. Saalfrank. 2,613,610, Oct. 14.
Diffuser. C. D. MacCracken. 2,613,587, Oct. 14.
Diffusion measuring meter. C. G. Bacon. 2,613,531, Oct. 14.
Direct current circuit breaker tester. F. J. Bucher. 2,614,150, Oct. 14.
Direct current motor control. D. F. Alexander. 2,614,238, Oct. 14.
Directional coupler for polyphase networks. P. Marié. 2,614,170, Oct. 14.
Dish with coacting covers, Multicompartment. R. B. Karoff. 2,613,518, Oct. 14.
Dispenser: *See*—
Grease dispenser. Wax paper dispenser.
Soft soap dispensr.
Dispenser. W. H. Carr, Jr. 2,613,879, Oct. 14.
Dispenser for cartons, Measuring. O. L. Ely. 2,613,856, Oct. 14.
Dispenser with slidable pressure plates for collapsible tubes. W. P. Halvorsen. 2,613,853, Oct. 14.
Dispensing apparatus, Sand. B. S. Snow. 2,614,002, Oct. 14.
Dispensing device, Beverage. C. F. Jarbeau. 2,613,988, Oct. 14.
Dispensing device, Liquid. L. Du Bois. 2,613,851, Oct. 14.
Distillation of oxo alcohols in the presence of intermediate boiling diluents. J. E. Moise, J. S. Anderson, and F. B. Johnson. 2,614,071, Oct. 14.
Distortion weave fabric structure. I. O. Moberg. 2,613,695, Oct. 14.
Door: *See*—
Tilting door.
Door latch. C. O. Goserud. 2,613,971, Oct. 14.
Double wrapping die mechanism for cigar wrapping machines. W. J. Giles. 2,613,674, Oct. 14.
Drawer slide. G. B. Kurtzon. 2,614,022, Oct. 14.
Drawn poultry carcasses, Preparation of. S. S. Still. 2,613,391, Oct. 14.
Dress separator for wardrobe trunks or suitcases. J. Staffa. 2,613,769, Oct. 14.
Drill: *See*—
Rock drill. Turbine-impact drill.
Drill press. W. L. Gaskell. 2,613,556, Oct. 14.
Drill press. L. E. Torrey. 2,614,007, Oct. 14.
Drilling and centering attachment for turret lathes. O. Schultz. 2,613,555 Oct. 14.
Drive chains and chain drives adapted to use said chains. A. E. Jorgensen. 2,613,546, Oct. 14.
Drive coupling for centrifugal separators. W. H. Harstick and O. E. Hintz. 2,613,968, Oct. 14.
Drive-in service device. S. E. McClintock. 2,613,762, Oct. 14.
Driven plate for friction clutches. F. Crutchley. 2,613,515, Oct. 14.
Driver coupler attachment. K. R. Larson. 2,613,780, Oct. 14.
Drop stretch forming. S. I. Vaughn and A. W. Tucker. 2,613,718, Oct. 14.
Dry cleaning method and apparatus. J. T. Lascari. 2,614,026, Oct. 14.
Dual load balancing hoist. H. T. Platz. 2,613,903, Oct. 14.
Dual throttle control. C. D. Stewart. 2,613,547, Oct. 14.
Dye bath composition. G. F. Jones. 2,614,086, Oct. 14.
Dyeing cellulose derivative textile material by impregnating it with a swelling solution containing urea and an esterified leuco vat dye and subsequently steaming twice. H. C. Olpin and T. Jackson. 2,614,023, Oct. 14.
Eaves flashing for gutter-protecting device. C. H. Schraeder. 2,613,621, Oct. 14.
Egg candler and grader. M. A. Richard. 2,613,808, Oct. 14.
8-chlorotheophylline, Preparation of. A. H. Homeyer and G. B. De La Mater. 2,614,105, Oct. 14.
Ejecting means for machines for making frames. O. Conrad. 2,613,719, Oct. 14.
Electric sequence and timing circuits. M. E. Bivens. 2,614,240, Oct. 14.
Electric shock eliminator. F. L. Lippy. 2,614,155, Oct. 14.
Electrical apparatus for measuring angles. L. Fein. 2,614,171, Oct. 14.
Electrical contact assembly. W. H. Kitto. 2,614,195, Oct. 14.
Electrical indicating device. E. B. Moss and C. W. Cooper. 2,614,244, Oct. 14.
Electrical relay. M. B. Robinson. 2,614,184, Oct. 14.
Electrical system for controlling the temperature of individual air streams. E. A. Russell, T. J. Lehane, and R. E. Pidgeon. 2,613,919, Oct. 14.
Electrically operated accumulator. E. L. Triman. 2,613,791, Oct. 14.
Electromagnetically actuated sign structure. V. L. Watkins. 2,614,145, Oct. 14.
Electromechanical control and indicating system. C. G. Roper. 2,614,163, Oct. 14.
Electromechanical transducer. A. L. W. Williams. 2,614,143, Oct. 14.
Electronic distributor. T. A. Hansen. 2,614,217, Oct. 14.
Electronic gating circuits. H. Karp, R. R. Darden, Jr., and M. F. Kolodziej. 2,614,215, Oct. 14.
Electronic induction number group translator. T. L. Dimond. 2,614,176, Oct. 14.
Emulsion polymerizationof a conjugated diene with a heavy hydroperoxide and a hyposulfite. C. A. Uraneck and S. H. Landes. 2,614,098, Oct. 14.
Emulsion polymerization of vinyl acetate. J. E. Bristol and N. Turnbull. 2,614,088, Oct. 14.
End filler flash section. W. Gillett. 2,613,768, Oct. 14.
Engine: *See*—
Intermittent duct engine.
Engine. A. G. Herreshoff. 2,613,651, Oct. 14.
Engine cutoff for tractors, Automatic. W. P. E. Smith. 2,613,756, Oct. 14.
Engine starter drive. J. J. Digby. 2,613,539, Oct. 14.
Engine starting apparatus. P. L. Schneider. 2,614,230, Oct. 14.
Enhancing the whipping properties of egg albumen solutions and whippable egg albumen compositions. S. J. Werbin. 2,614,046, Oct. 14.
Eraser and cap assembly for pencils. L. H. Hansen. 2,613,644, Oct. 14.
Evaporative crystallization process and apparatus therefor. S. P. Robinson. 2,614,035, Oct. 14.
Exercising apparatus. F. Manners. 2,613,932, Oct. 14.
Expander and oil check for piston rings, Combined. S. S. Slyk. 2,614,010, Oct. 14.
Expanding mouth filter for suction cleaning devices. U. A. Whitaker. 2,613,760, Oct. 14.
Expansion control for hay balers. H. C. Schaefer. 2,613,593, Oct. 14.

Extraction and treatment of fruit products. E. P. Wenzelberger. 2,614,048, Oct. 14.
Eyeglass rim-stretching apparatus. J. F. Schwebel, Sr 2,613,561, Oct. 14.
Fan with heating attachment, Electric. P. Varis. 2,614,201, Oct. 14.
Fastener: *See*—
Cover fastener. Toggle fastener.
Slide fastener.
Fastener. H. J. Dorgelys. 2,613,419, Oct. 14.
Fastener and washer assembling. H. Z. Gora. 2,613,374, Oct. 14.
Fastening device. N. O. Holmsten. 2,613,970, Oct. 14.
Feed clutch for cold headers. J. H. Friedman. 2,613,776, Oct. 14.
Feed roll for woodworking machines, Weighted. O. P. Smith. 2,613,706, Oct. 14.
Feeder: *See*—
Automatic flock feeder. Chemical solution feeder.
Feeding apparatus for straightening machines. D. J. Perdue and C. B. Richards. 2,613,801, Oct. 14.
Feeding subdivided solids. H. J. Ogorzaly and W. A. Rex. 2,613,832, Oct. 14.
Fence post settling and pulling rig. J. W. Jordan. 2,613,912, Oct. 14.
Filing cabinet construction, Insulated. H. C. Behrens. 2,613,623, Oct. 14.
Film holder. H. S. Wolf. 2,613,580, Oct. 14.
Film packet for use with dental X-ray machines. I. Shapiro. 2,614,225, Oct. 14.
Filter. L. L. Moore. 2,613,814, Oct. 14.
Filtering by attracting sludge particles. C. A. Rodman and N. L. Tewksbury. 2,613,813, Oct. 14.
Finishing gears. W. S. Praeg. 2,613,486, Oct. 14.
Fish bait, Artificial. J. Eslinger. 2,613,470, Oct. 14.
Fish lure. M. J. Haberkorn. 2,613,469, Oct. 14.
Fishing reel. J. B. Hand. 2,613,468, Oct. 14.
Fishing reel. C. B. Limpright. 2,613,883, Oct. 14.
Fishing reel. E. F. Small. 2,613,882, Oct. 14.
Fishing tool. K. C. Hawkins. 2,613,980, Oct. 14.
Flaking fused crystalline solids. D. B. Montgomery and E. V. Hegg. 2,613,396, Oct. 14.
Flashlight assembly having combined support and visor means. D. Goad. 2,614,206, Oct. 14.
Flatiron, Electric. N. T. Almquist. 2,613,459, Oct. 14.
Flexible bridge. C. H. Deringer. 2,613,364, Oct. 14.
Flexible shaft remote-control switch. R. D. Lightfoot. 2,614,197, Oct. 14.
Float operated measuring valve. J. C. Parson. 2,613,686, Oct. 14.
Fluid control valve. W. A. Ray. 2,613,682, Oct. 14.
Fluid turning blade. D. J. Clarke. 2,613,911, Oct. 14.
Fluorocarbon mono-Iodides and method of making. J. H. Simons and T. J. Brice. 2,614,131, Oct. 14.
Flush valve. L. E. Dernette. 2,613,690, Oct. 14.
Flushing valve. E. M. Denham. 2,613,367, Oct. 14.
Folding chair. E. W. and A. J. Anderson. 2,613,729–30, Oct. 14.
Folding pick. W. Johnson. 2,614,004, Oct. 14.
Foot and spring supported caster, Combined. R. A. Cramer. 2,613,389, Oct. 14.
Footwear, Knitted. M. E. Schaefer. 2,613,520, Oct. 14.
Form compensating means. H. R. Retter and C. R. Greene. 2,613,602, Oct. 14.
Formaldehyde and uranyl salt treatment of protein filaments. G. K. Simpson and J. Brooks. 2,614,025, Oct. 14.
Forming mechanism for composite sealing strips. W. S. Baker. 2,613,720, Oct. 14.
Forming reinforced hollow plastic articles. R. J. Francis. 2,614,058, Oct. 14.
Forming rings for bearings. J. J. Dierbeck. 2,613,429, Oct. 14.
Forming tire bands and band so formed, Method of and apparatus for. H. T. Kraft. 2,614,056, Oct. 14.
Fountain brush implement. I. L. Tucker. 2,613,381, Oct. 14.
Frame: *See*—
Picture frame.
Freezing device. R. S. Gaugler. 2,613,512, Oct. 14.
Freight loading. S. M. Nampa. 2,613,615, Oct. 14.
Frequency control device. P. Moll. 2,614,221, Oct. 14.
Frequency controlled radio relaying system. W. M. Goodall. 2,614,211, Oct. 14.
Frequency converter system for radio receivers. B. D. Loughlin. 2,614,212, Oct. 14.
Friction elements from the reaction product of melamine, formaldehyde, and toluene sulfonamide. E. S. Bauer, Jr. 2,614,091, Oct. 14.
Froth breaking apparatus. V. C. Lorenz. 2,613,810, Oct. 14.
Frozen confection on a stick. T. W. Turner. 2,614,047, Oct. 14.
Fruit holder. C. H. Olson. 2,613,984, Oct. 14.
Fuel saving furnace. S. Wald. 2,613,653, Oct. 14.
Full-view concentric indicator. L. A. Maybarduk. 2,613,629, Oct. 14.
Furnace: *See*—
Fuel saving furnace.
Fuse link. G. Appleman. 2,614,192, Oct. 14.
Fused electrical connector. J. F. Conrad. 2,614,190, Oct. 14.
Garment hanger. V. H. Pechtel. 2,613,857, Oct. 14.
Garment hanger. R. M. Sprague. 2,613,858, Oct. 14.
Garment or the like, Athletic. S. N. Friedland and W. F. Feinbloom. 2,613,360, Oct. 14.
Garment, Pedal skirt. G. T. Morgan. 2,613,363, Oct. 14.
Garment, Woman's. B. J. Christensen. 2,613,357, Oct. 14.
Gas turbine power plant having means for joint control of the fuel and the air supply. A. Lysholm. 2,613,500, Oct. 14.
Gas turbine power plant having propeller drive. N. C. Price. 2,613,749, Oct. 14.
Gaseous electric discharge device circuits. N. O. Clark 2,614,243, Oct. 14.
Gasketed cover for isolated phase bus. N. Swerdlow and G. G. Abel. 2,613,845, Oct. 14.
Gate: *See*—
Starting gate.
Gauge: *See*—
Liquid level gauge.
Germicidal compositions. D. F. Rogers. 2,614,060, Oct. 14.
Glass level recording mechanism. M. A. Helmick. 2,613,443, Oct. 14.
Glass reheating and reshaping. G. E. Stong. 2,613,479, Oct. 14.
Golf bag carrier. J. P. Lannon. 2,613,952, Oct. 14.
Governor. R. W. Sloane, M. J. Thomas, and G. C. Fricke. 2,613,657, Oct. 14.
Gown, Infant's. M. C. Boyce. 2,613,359, Oct. 14.
Gravity buoyancy pump. J. Beam. 2,613,608, Oct. 14.
Gravity conveyer section. J. J. McLaughlin. 2,613,789, Oct. 14.
Gravity meter. J. J. Jakosky. 2,613,536, Oct. 14.
Grease composition. R. J. Moore and W. Saarni. 2,614,077, Oct. 14.
Grease compositions. R. J. Moore and W. Saarni. 2,614,076, Oct. 14.
Grease dispenser. A. Pansegrau. 2,613,855, Oct. 14.
Grinding fixture. G. W. Soderman. 2,613,484, Oct. 14.
Gun sight. W. M. Austin. 2,613,442, Oct. 14.
Gyroscope, Low precession. M. I. Edelstein. 2,613,538, Oct. 14.
Hair curler. C. D. Vaughn. 2,613,679, Oct. 14.
Hairpin receptacle. P. N. Boudreau. 2,613,859, Oct. 14.
Handle for cupcake pans and the like, Detachable. E. C. Marulli. 2,613,978, Oct. 14.
Hanger: *See*—
Garment hanger.
Hatch skirt and insulation pan support. E. S. Cisco. 2,613,616, Oct. 14.
Hay storage and feeding barn. D. Cameron. 2,613,640, Oct. 14.
Headrest. J. S. Roginski. 2,613,731, Oct. 14.
Heat exchanger. R. W. Avery and K. J. Dangerfield. 2,614,198, Oct. 14.
Heat exchanger. K. H. Flint. 2,613,920, Oct. 14.
Heat stabilization of a chlorine containing polymer with a mercapto acid amide. T. H. Shelley, Jr. 2,614,095, Oct. 14.
Heat treating and distillation of oxo alcohols. W. M. Smith. 2,614,070, Oct. 14.
Heater. R. D. Drew and E. V. Bergstrom. 2,613,924, Oct. 14.
Heating of fluids. H. A. Becker. 2,613,654, Oct. 14.
Helicopter control. A. F. Donovan and H. Hirsch. 2,613,751, Oct. 14.
Helicopter with auxiliary rotor. C. G. Pullin and J. S. Shapiro. 2,613,748, Oct. 14.
High impedance shielded twin conductor cable. E. W. Greenfield and A. E. Widmer. 2,614,172, Oct. 14.
High-voltage breaker and recloser. B. C. Rogers. 2,614,191, Oct. 14.
Hinged-clamp for applying antiskid chains. I. Shapiro. 2,613,563, Oct. 14.
Hoisting apparatus. D. A. Wallace. 2,613,914, Oct. 14.
Hoisting device. A. L. Stone. 2,613,915, Oct. 14.
Holder: *See*—
Film holder. Telephone holder.
Pocket attached holder. Work holder.
Razor blade holder. Yarn or thread holder.
Safety pin holder.
Holder and carrier for containers. F. A. Hoffman. 2,613,860, Oct. 14.
Holder for hypodermic needle. G. W. Jacoby, Jr. 2,613,485, Oct. 14.
Hook: *See*—
Resilient snap hook.
Hook. B. S. Minor. 2,613,981, Oct. 14.
Horizontally hinged wheeled disk harrow. R. T. Evans and J. H. Clasen. 2,613,491, Oct. 14.
Hydraulic control valve. H. C. Weimar. 2,613,906, Oct. 14.
Hydraulic cylinders with plungers, Making. L. T. McGee. 2,613,431, Oct. 14.
Hydraulic ram attachment for implements. W. G. Toland. 2,613,584, Oct. 14.
Hydraulic servomotor. L. F. Mott. 2,613,650, Oct. 14.
Hydrocarbon-oxy phosphoryl monofluorides, Production of. W. Lange and A. Hood. 2,614,116, Oct. 14.
Hydrocarbon synthesis. R. W. Krebs. 2,614,114, Oct. 14.
Hydrodesulfurization of petroleum hydrocarbons. P. W. Cornell. 2,614,066, Oct. 14.
Hydrodesulfurization reactor. P. W. Cornell and C. E. Carter. 2,614,033, Oct. 14.

Hydroquinone, Manufacture of. J. Kamlet. 2,614,127, Oct. 14.
Ice-making machine. D. R. Cook. 2,613,506, Oct. 14.
Ice-making machine. E. C. Walsh. 2,613,511, Oct. 14.
Identification assembly unit. D. H. Bowder. 2,613,466, Oct. 14.
Illuminating device for instrument panels. J. M. Roper and T. O. Twist. 2,614,205, Oct. 14.
Indexing mechanism for machine tools. C. S. Lee. 2,613,428, Oct. 14.
Indicating system. L. R. Foote and W. L. O. Graves. 2,614,160, Oct. 14.
Indicator: *See*—
Currency denomination indicator. Full-view concentric indicator.
Inductive railway train communication system. A. J. Sorensen. 2,614,209, Oct. 14.
Infusible copolymeric vinylidene chloride composition. J. H. Reilly. 2,614,092, Oct. 14.
Inhibition of polymerization of acrylonitrile. W. T. Nichols. 2,614,119, Oct. 14.
Ink fountain agitator. S. D. Forbes. 2,613,601, Oct. 14.
Inking arrangement for printing presses. H. L. McWhorter. 2,613,600, Oct. 14.
Inner molds, Making. E. M. Crowell. 2,613,398, Oct. 14.
Instep guard for safety shoes. E. F. McLaughlin. 2,613,457, Oct. 14.
Instrument, Flight. W. K. Ergen. 2,614,251, Oct. 14.
Instrument for determining wheel balance. C. M. Jones. 2,613,532–3, Oct. 14.
Instrument panel. P. T. Nims. 2,614,156, Oct. 14.
Instrument, Well surveying. R. Ring. 2,613,448, Oct. 14.
Interlocking filing cabinet. H. W. Regenhardt. 2,614,016, Oct. 14.
Intermediates for producing basic compounds, Making. C. C. Price and R. M. Roberts. 2,614,121, Oct. 14.
Intermittent duct engine. P. Kollsman. 2,613,496, Oct. 14.
Internal-combustion turbine power plant. N. C. Price. 2,613,501, Oct. 14.
Jalousie. T. I. Moseley. 2,613,405, Oct. 14.
Jet engine container. W. W. Higbee. 2,613,807, Oct. 14.
Jig saw blade mounting. E. L. Hoffmann and A. L. Atkins. 2,613,700, Oct. 14.
Jig saw, Hydraulically operated. A. F. Nathan. 2,613,701, Oct. 14.
Joint: *See*—
Rail joint.
Journal box arrangement. W. H. Baselt. 2,614,008, Oct. 14.
Kite control. K. C. Howard. 2,613,894–5, Oct. 14.
Landing gear with prerotation means, Track tread. O. E. Dever. 2,613,892, Oct. 14.
Lasting machine. T. P. Courchene. 2,613,376, Oct. 14.
Latch: *See*—
Door latch. Shoe latch.
Lawn mower sharpening device. J. P. Lewis and R. R. Rader. 2,613,483, Oct. 14.
Leak detector for immersion heaters. I. M. McNair. 2,614,200, Oct. 14.
Lid for suspended milkers. T. B. Crawford. 2,613,637, Oct. 14.
Lift truck fork. L. H. Ponnequin. 2,613,830, Oct. 14.
Lifter: *See*—
Piecrust lifter.
Light fixture, Ultraviolet. S. E. View. 2,613,465, Oct. 14.
Liquid dispensing device having a globular combined applicator and outlet valve. L. L. Patterson. 2,613,382, Oct. 14.
Liquid distributing system. F. J. Wiegand, W. T. Stark, and M. R. Rowe. 2,613,687, Oct. 14.
Liquid level gauge. P. L. Born. 2,613,535, Oct. 14.
Liquid-liquid contacting, Method of and apparatus for. S. C. Carney. 2,614,064, Oct. 14.
Liquid-liquid extraction tower. R. B. Tickler. 2,614,031, Oct. 14.
Lock: *See*—
Cylinder lock. Window lock.
Lock mechanism for window latches. N. O. Holmsten. 2,613,523, Oct. 14.
Locking bobby pin. J. A. Rapisarda. 2,613,680 Oct. 14.
Locking mechanism for window latches. N. O. Holmsten. 2,613,524–5, Oct. 14.
Log-handling apparatus. L. N. Rees. 2,613,851, Oct. 14
Loom: *See*—
Weaving loom.
Loom. A. Jarvis. 2,613,693, Oct. 14.
Loud-speaker heater attachment for drive-in threaters, Portable. H. M. Melzer. 2,613,757, Oct. 14.
Louver damper with pressure seal. S. B. Smith. 2,613,940, Oct. 14.
Lubricating compositions. L. R. Churchill. 2,614,078, Oct. 14.
Lubricating grease. R. J. Moore. 2,614,079, Oct. 14.
Lubricating oil additive materials. L. M. Welch. 2,614,080, Oct. 14.
Lubricating system on track roller. W. O. Bechman. 2,614,006, Oct. 14.
Luggage container. C. J. Lacher. 2,613,847, Oct. 14.
Luggage hardware. D. Levine. 2,613,770, Oct. 14.
Lumber cutting jig. Z. H. Giles. 2,613,707, Oct. 14.
Lumber sorting apparatus. C. F. Setzer and H. W. Ryan. 2,613,825, Oct. 14.
Machine bit for drilling wood. J. V. Emmons. 2,613,710, Oct. 14.
Machine for applying solid rubber tires to wheel rims. P. D. Mize. 2,613,736, Oct. 14.
Machine for assembling electrical connectors. C. E. and M. D. Gilbert, and N. Coates. 2,613,432, Oct. 14.
Machine for attaching snap fasteners to tape and the like. R. A. Proud and H. C. Stanley. 2,613,835, Oct. 14.
Machine for forming the upper faces of wedge heels. H. W. Russ and E. E. Joiner, Jr. 2,613,705, Oct. 14.
Machine for milling pockets in curved stereotype plates. O. C. Roesen. 2,613,578, Oct. 14.
Machine for use in making insoles. N. E. Mariner and L. G. Knowles. 2,613,377, Oct. 14.
Magnetic core. R. C. Sefton and J. J. Zimsky. 2,614,158, Oct. 14.
Making electron-micrographs of opaque metallographic specimens, Method of and apparatus for. E. G. Ramberg. 2,614,223, Oct. 14.
Manganese dioxide from manganous sulfate solutions, Manufacture of. J. Kamlet. 2,614,030, Oct. 14.
Manhole lid locking means. H. A. Neal. 2,613,975, Oct. 14.
Margin-stretching wiper for folding machines. A. Oswald. 2,613,378, Oct. 14.
Marine seismic surveying. W. W. Doolittle. 2,614,165, Oct. 14.
Masonry cutter. R. C. Huber. 2,613,661, Oct. 14.
Material heating and handling means. C. A. Nichols, R. B. Bower, G. L. Welser, J. R. Edwards, W. A. Fletcher, H. W. McCoy, and B. S. Sample. 2,613,450, Oct. 14.
Measuring vessel. T. D. Di Addario. 2,613,537, Oct. 14.
Mechanical dowser for motion-picture projecting apparatus. A. F. Lindberg. 2,613,573, Oct. 14.
Mechanical seed planter. C. B. Varco. 2,613,850, Oct. 14.
Mechanism for teaching the piano. J. H. Williams. 2,613,569, Oct. 14.
Metal chloride screening smoke mixture. J. C. Ballar, Jr., and R. W. Parry. 2,614,083, Oct. 14.
Metallic cellular beverage case. O. C. Coles, Jr. 2,613,840, Oct. 14.
Metallo-thioplasts. L. Akobjanoff. 2,614,097, Oct. 14.
Meter: *See*—
Diffusion measuring meter. Volt-ampere meter.
Gravity meter.
Method and machine for making globular surgical sponges. H. C. Riordan and W. S. Stone. 2,613,399–400, Oct. 14.
Method of and device for measuring and controlling the quality factor and damping factor of electric circuits and components thereof. B. Carniol. 2,614,153, Oct. 14.
Method of cutting timber and of connecting the slabs. R. B. Blackmore. 2,613,708, Oct. 14.
Micrometer. S. G. Zuckerman. 2,613,445, Oct. 14.
Mill: *See*—
Wire rolling mill.
Mirror assembly and mounting means, Rearview. R. N. Falge. 2,613,575, Oct. 14.
Mitering tool. H. D. Drain. 2,613,740, Oct. 14.
Mobile transfer device for a litter and operating table. S. A. Waterman. 2,613,372, Oct. 14.
Modulation system. R. B. Dome. 2,614,246, Oct. 14.
Mold: *See*—
Multiple cavity mold.
Molded articles. Manufacture of. G. W. Borkland. 2,613,397, Oct. 14.
Molding apparatus. L. L. Johnston. 2,613,410, Oct. 14.
Molding machine and molding. L. F. Miller and L. C. Cole. 2,613,409, Oct. 14.
Money box. A. W. Wolters. 2,613,622, Oct. 14.
Motion converting apparatus. M. C. Robinson. 2,613,551, Oct. 14.
Motor: *See*—
Damper motor.
Motor vehicle engine mounting. H. J. van Doorne. 2,613,754, Oct. 14.
Motorized drive wheel assembly for lift trucks or the like. W. C. Stuebing, Jr. 2,613,753, Oct. 14.
Mounting: *See*—
Jig saw blade mounting. Removable window sash
Motor vehicle engine mounting. mounting.
Sign mounting.
Mounting for electrical switches. L. L. Crump and J. T. Finley. 2,614,148, Oct. 14.
Mounting for transmission gearing and guard. O. Cullman. 2,163,544, Oct. 14.
Mouthpiece for smokers' pipes, Universal. J. R. Darbee. 2,613,675, Oct. 14.
Moving target pulse echo measuring system. E. K. Stodola. 2,614,250, Oct. 14.
Mud weighing apparatus. C. R. Nichols. 2,613,530, Oct. 14.
Muffler with sound absorbing material, Baffle type. D. J. W. Cullum. 2,613,758, Oct. 14.
Multicolor stamping of dinnerware. W. H. Emerson. 2,613,594, Oct. 14.
Multiple friction clutch. R. A. Carlson. 2,613,778, Oct. 14.
Multiple governing system for turbine with automatic transfer. J. M. Baker. 2,614,229, Oct. 14.
Multiple mold continuous plastic forming machine. A. E. Willomitzer. 2,613,619, Oct. 14.
Multistage process for condensing hydrocarbon synthesis products. W. E. Catterall and E. O. Ohsol. 2,614,115, Oct. 14.

Multiunit catalytic cracking operations. J. W. Healy and C. W. Brackin. 2,614,068, Oct. 14.
Musical sound generating device. M. Martenot. 2,613,568, Oct. 14.
Mutual inductance system. O. H. Huston. 2,614,164, Oct. 14.
Nail, Carpenter's. E. Sokolik. 2,613,570, Oct. 14.
Neurosurgical operating chair. H. Woodhall. 2,613,725, Oct. 14.
New unsaturated ketone, Preparation of. R. M. Evans and P. G. Jones. 2,614,124, Oct. 14.
Nipple and cap construction. H. V. A. Bonin. 2,613,671, Oct. 14.
Nozzle for spray guns. C. L. Reinhold. 2,614,000, Oct. 14.
Nozzle, Fuel atomizing. T. M. Ball. 2,613,997, Oct. 14.
Nozzle, Oil burner. G. Schwietert. 2,613,737, Oct. 14.
Nozzle, Self-cleaning spray. A. H. Bahnson, Jr. 2,613,992, Oct. 14.
Nozzle, Variable area fuel. T. C. Noon and F. C. Bayer. 2,613,998, Oct. 14.
Oar, Bow facing. L. Magdits. 2,613,373, Oct. 14.
Oil routing valve. F. Guyton. 2,613,684, Oct. 14.
Oil seal. T. E. Nelson. 2,613,960, Oct. 14.
Oil separation and reclaiming means for gas turbine power plants. J. J. Prendergast. 2,613,498, Oct. 14.
Olefin oxidation process employing cuprous oxide catalysts. K. D. Detling and T. Skei. 2,614,125, Oct. 14.
1 - acetyl - 6 - Oxo - 8a - methyl - 3,4,6,7,8,8a - hexahydronaphthalene. M. S. Newman and S. Swaminathan. 2,614,123, Oct. 14.
1-amido-6,7 dichloro anthraquinone dyestuffs. W. Jenny and W. Kern. 2,614,108, Oct. 14.
Opener, Can. G. Story. 2,613,435, Oct. 14.
Oscillating and amplifying vacuum tube for very short waves. J. P. Voge. 2,614,234, Oct. 14.
Oscillating bed and platen press. W. C. Rupp. 2,613,599, Oct. 14.
Outboard mounting structure. F. W. Coffing. 2,613,967, Oct. 14.
Overhead switching system. R. W. Donaldson. 2,614,178, Oct. 14.
Overhead switching system. R. W. Donaldson and W. J. Lewis. 2,614,179, Oct. 14.
Overload release coupling. E. Jedrzykowski. 2,613,947, Oct. 14.
Overload release coupling. N. J. Rees. 2,613,516, Oct. 14.
Oxidative condensation of alkyl aromatic hydrocarbons and of nuclearly chlorinated alkyl aromatic hydrocarbons. H. Pines and V. N. Ipatieff. 2,614,130, Oct. 14.
Package binding. J. J. Cheesman. 2,613,589, Oct. 14.
Packaging. J. Schindler. 2,613,991, Oct. 14.
Packaging hygroscopic sponges. S. P. Vaughn. 2,613,487, Oct. 14.
Packaging hygroscopic sponges. S. P. Vaughn. 2,613,862, Oct. 14.
Packing machine. K. J. Sylvest and E. Jensen. 2,613,854, Oct. 14.
Pad: *See*—
Dental pad. Truss pad.
Pallett conveyer and selector. J. E. McPhee. 2,613,798, Oct. 14.
Panel unit for radiant heating. L. A. Byrnie. 2,613,900, Oct. 14.
Panoramic receiver. G. J. Perlow and J. M. Kelly. 2,614,214, Oct. 14.
Paper reinforcing machine. S. J. Baisch and H. C. Lee. 2,614,054, Oct. 14.
Paper roll support. A. A. Kottmann. 2,613,881, Oct. 14.
Pavement breaking machine. W. V. Cornett. 2,613,923, Oct. 14.
Peeling machine, Portable vegetable. H. Pearlman. 2,613,712, Oct. 14.
Pencil, Mechanical. C. Merryman. 2,613,643, Oct. 14.
Pencil point sharpener. D. W. von Kameniczky. 2,613,645, Oct. 14.
Pendulum damping device for elevation meters. J. D. Eisler. 2,613,449, Oct. 14.
Perfluorination. E. T. McBee, R. M. Robb and W. B. Ligett. 2,614,129, Oct. 14.
Phase modulation apparatus. H. Chireix. 2,614,245, Oct. 14.
Photoelectric cell control for bowling alleys. H. S. and W. H. Johns. 2,613,933, Oct. 14.
Photoelectric device. F. E. Davis, III. 2,614,226, Oct. 14.
Pickling bath foaming agent. J. W. Carroll. 2,614,081, Oct. 14.
Picture frame. E. O. Borglin and H. D. MacKenzie. 2,613,467, Oct. 14.
Piecrust lifter. H. M. Kellogg. 2,613,977, Oct. 14.
Piepan lifting and handling implement. D. R. Stillabower. 2,613,979, Oct. 14.
Pilot-operated valve. M. Clausen and C. Matthiesen. 2,613,689, Oct. 14.
Pin: *See*—
Corsage pin. Locking hobby pin.
Piston structure. J. P. Butterfield. 2,614,009, Oct. 14.
Pitch propeller for aircraft, Adjustable. A. E. Hawkins. 2,613,752, Oct. 14.
Pivoted bucket closure. C. R. Suda. 2,613,843, Oct. 14.
Plasterboard clip. J. S. Raynor, Jr. 2,613,416, Oct. 14.
Plasticized vinyl resin compositions and preparing the same. G. L. Wheelock. 2,614,094, Oct. 14.
Play ball, Shuttlecock type. W. R. Richards. 2,613,935, Oct. 14.
Pneumatic load indicating device. M. N. Weber. 2,613,925, Oct. 14.
Pocket attached holder. W. V. Budny. 2,613,413, Oct. 14.
Polishing composition. R. G. Swanson. 2,614,049, Oct. 14.
Polymeric titanium mixed esters. T. Boyd. 2,614,112, Oct. 14.
Polymerizing olefins with phosphorus pentoxide-trialkyl phosphate catalyst solution. J. J. Kolfenbach and A. B. Small. 2,614,136, Oct. 14.
Polyvinyl acetate emulsions, Preparation of. N. Turnbull. 2,614,087, Oct. 14.
Portable road signal. E. S. Transue. 2,613,463, Oct. 14.
Positioning control system for remote elements, including hydraulic transmission units. H. Ziebolz, D. T. Gundersen and R. K. Baetzmann. 2,613,502, Oct. 14.
Poultry shackle. E. T. Wayne. 2,613,390, Oct. 14.
Power transmission mechanism. E. J. Thurber. 2,613,549–50, Oct. 14.
Power transmission mechanism. E. J. Thurber. 2,613,772, Oct. 14.
Precision weighing balance. G. Gorbach. 2,613,926, Oct. 14.
Preparing corn for popping. H. C. Smith. 2,614,044, Oct. 14.
Preparing dough for baking. W. M. Allen. 2,613,620, Oct. 14.
Press: *See*—
Drill press.
Press sealing head for wrapping and sealing edibles. P. A. Terry. 2,613,489, Oct. 14.
Pressure cooker, Hotel type. J. L. Shroyer. 2,613,666, Oct. 14.
Pressure operated reciprocating valve. L. J. Ziegelmeyer. 2,613,652, Oct. 14.
Pressure regulating valve. F. J. Eichelman. 2,613,481, Oct. 14.
Pressure vessel. C. E. Johnson. 2,613,462, Oct. 14.
Printing machine, Continuously rotary character-wheel. L. R. Prouty. 2,613,796, Oct. 14.
Projectile. E. W. Brandt. 2,613,605, Oct. 14.
Projectile booster. R. A. Pyle. 2,613,604, Oct. 14.
Propane dewaxing chilling procedure. K. H. Wanderer, L. A. Hays, Jr., and R. B. Selund. 2,614,065, Oct. 14.
Pull rod carrier. A. M. Rossman. 2,614,005, Oct. 14.
Puller: *See*—
Tree puller.
Pulse modulating system. J. Boisvieux and J. Chaumeron. 2,614,247, Oct. 14.
Pulsed radio signaling. E. S. Purington. 2,614,210, Oct. 14.
Pump: *See*—
Bellows pump. Differential bellows pump.
Constant delivery pump. Gravity buoyancy pump.
Punch and pencil device, Combined. S. B. Wimberly and D. R. Self. 2,613,745 Oct. 14.
Punch for printing apparatus. H. H. Hillmer and H. P. Orent. 2,613,744, Oct. 14.
Purification of crystalline substances. J. M. Powers. 2,614,134, Oct. 14.
Purification of silver nitrate solutions. J. A. Moede. 2,614,029, Oct. 14.
Quick disconnect holding means. J. E. Wescott. 2,613,961, Oct. 14.
Radar domes, Making. L. S. Cooper. 2,614,059, Oct. 14.
Radio control device. J. N. Davis. 2,613,548, Oct. 14.
Radiographic equipment. A. Wright. 2,614,224, Oct. 14.
Rail joint. O. Reifurth. 2,613,875, Oct. 14.
Railway track skate. H. L. Bone. 2,613,612, Oct. 14.
Raising and lowering tops of motor vehicles. J. R. Stanfield. 2,613,987, Oct. 14.
Razor blade holder. J. W. Robinson. 2,612,438, Oct. 14.
Razor, Safety. O. V. Burke. 2,613,436, Oct. 14.
Reaction product of an aliphatic amide and a phosphorus sulfide and lubricants containing the same. J. D. Bartleson. 2,614,075, Oct. 14.
Reaction product of starch with glycolalkylolamine condensates for the sizing of textile warp strands. B. G. Zimmerman. 2,614,103, Oct. 14.
Reactor,controlled electronic circuit. J. Stone, 4th. 2,614,242, Oct. 14.
Receptacle: *See*—
Hairpin receptacle.
Recovery of drying oils from HF-hydrocarbon complexes. R. J. Lee and P. D. May. 2,614,132, Oct. 14.
Recovery of oil and meal from oil-bearing marine life. W. C. Davis. 2,614,110, Oct. 14.
Reduction of carbonyl compounds. I. Wender and M. Orchin. 2,614,107, Oct. 14.
Reel: *See*—
Fishing reel. Web winder reel.
Refining glyceride oil in a liquid paraffinic solvent with a concentrated alcoholic alkali metal hydroxide solution. A. L. Ayers. 2,614,111, Oct. 14.
Refining process and apparatus. H. C. Reed, C. H. O. Berg and C. B. Leffert. 2,614,067, Oct. 14.
Refractory compositions. S. Rusoff. 2,614,050, Oct. 14.
Refrigerating apparatus. W. Giffard. 2,614,021, Oct. 14.
Refrigerating apparatus. L. A. Philipp. 2,613,509, Oct. 14.
Refrigerator. E. T. Morton. 2,613,510, Oct. 14.
Refrigerator cabinet. R. A. King. 2,613,838, Oct. 14.
Refrigerator door locking and opening mechanism. P. H. Brinkoeter. 2,613,973, Oct. 14.

Refrigerator, Open top frozen food. P. H. Brinkoeter. 2,613,508, Oct. 14.
Refrigertor, Open top frozen food. R. E. Pabst. 2,613,507, Oct. 14.
Refrigerator shelf. W. E. Richard. 2,613,818, Oct. 14.
Registering device for counting the operations of oscillatory machine elements. E. W. Rich. 2,613,873, Oct. 14.
Relief valve. E. K. Thomas. 2,613,874, Oct. 14.
Removable spacer. N. L. Herman. 2,613,571, Oct. 14.
Removable window sash mounting. H. E. Gardner, Jr. 2,613,403, Oct. 14.
Removing lint by variable-speed traveling blower. A. B. Simon. 2,613,611, Oct. 14.
Resilient snap hook. G. Boden and M. V. Duell. 2,613,422, Oct. 14.
Retractable arrow point. T. Dalton. 2,613,936, Oct. 14.
Revolving multiple color screen process printing table. J. T. Weldon. 2,613,595, Oct. 14.
Ring shaped closure remover. R. H. Williams. 2,613,833, Oct. 14.
Ripsaw table having a hinged section. G. C. Dudek. 2,613,699, Oct. 14.
Roasting coffee. W. J. Lenz. 2,614,043, Oct. 14.
Rock drill. J. C. Curtis. 2,613,647, Oct. 14.
Rod feeding machine with rod receiving grooved member movable to actuate rod feeding means. H. Goerlitz. 2,613,861, Oct. 14.
Rollerway for sawmill feed carriages, Adjustable. W. H. Munson. 2,613,702, Oct. 14.
Roofing granules and making same. M. E. Buzzell and L. W. Kanninen. 2,614,051, Oct. 14.
Rotary driven percussive tool. H. C. Reynolds. 2,613,662, Oct. 14.
Rotary hydraulic torque converter. A. J. Syrovy. 2,613,503, Oct. 14.
Rotary seal for furnace tops. W. L. Dawbarn. 2,613,826, Oct. 14.
Rotary subsoiler. D. L. Calkins. 2,613,585, Oct. 14.
Rotation indicator for hermetically sealed motor compressor units. J. Calling. 2,613,628, Oct. 14.
Row marker. M. E. Boenig. 2,613,586, Oct. 14.
Ruggedized klystron tube. W. A. Joerndt. 2,614,233, Oct. 14.
Rule with opposed sliding contacts, Measuring. D. D. Brooks. 2,613,444, Oct. 14.
Runway marker for airports. H. Dalton, Jr., and T. M. Macarlo. 2,614,203, Oct. 14.
Saddle attachment for cycle seats. L. F. Bryant. 2,613,723, Oct. 14.
Saddle cover. C. J. Ruppert. 2,613,722, Oct. 14.
Safety pin holder. R. F. Kenney. 2,613,817, Oct. 14.
Salt dissolver. A. W. Eichstaedt. 2,614,032, Oct. 14.
Sampling sub with removable cutting collector. J. N. Gregory. 2,613,916, Oct. 14.
Sanitary vaginal appliance. E. Sokolik. 2,613,670, Oct. 14.
Saw setting tool. E. G. Fippinger. 2,613,553, Oct. 14.
Scent disseminator. H. C. Smith. 2,613,989, Oct. 14.
Sealable food container. D. W. Hughes. 2,613,804, Oct. 14.
Sealed flow device. J. B. Letts. 2,613,996, Oct. 14.
Sealed shaft and alignment coupler for use in electrical assembly. O. C. Montgomery. 2,614,157, Oct. 14.
Sealing unit for a valve mechanism. G. B. Stillwagon, Jr. 2,613,907, Oct. 14.
Seam welder head. E. A. Mallett and M. M. Seeloff. 2,614,146, Oct. 14.
Seat: *See*—
Child's car seat.
Seat spring. K. R. Dye and M. Stubnitz. 2,613,732, Oct. 14.
Selective adsorption of nonpolar organic compounds. A. E. Hirschler. 2,614,135, Oct. 14.
Selective olefinic polymers, Production of. J. A. Chenicek. 2,614,137, Oct. 14.
Self-centering bale handler. D. W. Gault. 2,613,829, Oct. 14.
Self-loading and unloading vehicle. H. J. van Doorne. 2,613,827, Oct. 14.
Separation of mixtures containing alcohols, aldehydes, and ketones. C. S. Carlson and P. V. Smith, Jr. 2,614,072, Oct. 14.
Setting moisture-setting printing inks, Method and apparatus for. C. A. Ireton. 2,613,603, Oct. 14.
Shaft seal. G. W. Dahl. 2,613,962, Oct. 14.
Shear accessory. M. P. Lefere. 2,613,739, Oct. 14.
Shears, Power-operated pivoted. W. F. McPhee. 2,613,437, Oct. 14.
Sheet dividing and compiling machinery. E. B. Sullivan. 2,613,929, Oct. 14.
Sheet feed device for rotary duplicating machines. E. Rutishauser. 2,613,597, Oct. 14.
Sheet registering apparatus. H. T. Backhouse. 2,613,930, Oct. 14.
Shelf elevating mechanism and control. D. Collins. 2,614,020, Oct. 14.
Shipping container. W. L. Newhall, E. Willison and J. Stevens. 2,613,836, Oct. 14.
Shoe latch. R. E. Jones. 2,613,414, Oct. 14.
Shoe soling apparatus. W. H. Doherty. 2,613,394, Oct. 14.
Shoe supporting device for furniture. E. M. Fisher. 2,613,735, Oct. 14.
Sign mounting. R. L. Lisle. 2,613,464, Oct. 14.
Signal: *See*—
Portable road signal.
Signal actuated tuner control. A. G. Tynan. 2,614,213, Oct. 14.
Signal mixing circuits. R. C. Goertz. 2,614,237, Oct. 14.
Sizing and bleaching a wet web. R. L. McEwen. 2,613,579, Oct. 14.
Sleeve pulling device. R. G. Knudsen. 2,613,983, Oct. 14.
Slicing device for culinary purposes. P. H. Miller. 2,613,714, Oct. 14.
Slide fastener. B. Madsen. 2,613,421, Oct. 14.
Slide projector-sound synchronization system. E. Moss. 2,613,574, Oct. 14.
Sliding door assembly. A. R. Mounce. 2,613,844, Oct. 14.
Slotted turbine blade. E. A. Stalker. 2,613,910, Oct. 14.
Snap switch. O. B. Sutton and H. W. Wilson. 2,614,186, Oct. 14.
Sofa seat and bed, Combined. A. Lorenz and H. Nock. 2,613,369, Oct. 14.
Sofa seat and bed, Convertible. A. Lorenz. 2,613,370, Oct. 14.
Soft soap dispenser. N. F. Peebles. 2,613,713, Oct. 14.
Soil mixing attachment for power tractors. P. R. Pretzer. 2,613,581, Oct. 14.
Solution mixing and distributing apparatus. F. L. Gatchet. 2,613,922, Oct. 14.
Sound recording and reproducing machine. F. L. Moore. 2,613,939, Oct. 14.
Space heater and air circulating accessory therefor. G. C. Mitacek and C. T. Hammons. 2,613,663, Oct. 14.
Speed and acceleration actuated power plant control means. L. Breguet and R. Devillers. 2,613,750, Oct. 14.
Speed responsive signaling mechanism. F. N. Bailey and R. P. Humpal. 2,614,161, Oct. 14.
Speed-varying power transmission. P. B. Reeves. 2,613,545, Oct. 14.
Split mechanism. W. C. Brown. 2,613,872, Oct. 14.
Spray gun for paints and other liquids. C. Reinhold. 2,613,995, Oct. 14.
Spring: *See*—
Seat spring.
Spring construction. A. Mouw. 2,613,733, Oct. 14.
Spring supporting clip. H. Hopkes. 2,613,734, Oct. 14.
Sprinkler. J. R. Holden. 2,613,993, Oct. 14.
Sprinkler and dispenser, Combined. C. P. Peters. 2,613,994, Oct. 14.
Stabilization of monomeric 1,1-dicyano ethylene. H. Gilbert and A. E. Ardis. 2,614,117, Oct. 14.
Stabilization of monomeric 1,1-dicyano ethylene. F. F. Miller. 2,614,118, Oct. 14.
Stabilization of vinylidene cyanide polymer solutions. S. J. Averill. 2,614,090, Oct. 14.
Stabilized activators and their use in emulsion polymerization. C. A. Uraneck, C. M. Tucker, and W. M. St. John, Jr. 2,614,100, Oct. 14.
Stacking apparatus. J. J. Tallman. 2,613,824, Oct. 14.
Stairs, Foldable. R. B. Marschke. 2,613,866, Oct. 14.
Stalk chopper for corn pickers. E. K. Karlsson. 2,613,490, Oct. 14.
Stand: *See*—
Christmas tree stand.
Starter and ignition means for turbojet engines. C. N. Lawter. 2,613,499, Oct. 14.
Starting gate. W. E. Christ. 2,613,638–9, Oct. 14.
Static electromagnetic memory device. L. J. Kamm. 2,614,167, Oct. 14.
Steam trap. E. L. Myers. 2,613,685, Oct. 14.
Steeping of cellulose. P. H. Schlosser and R. L. Mitchell. 2,614,102, Oct. 14.
Steering means for mobile conveyances. P. H. Gerrits. 2,613,944, Oct. 14.
Steering motor for airplane landing wheels. H. S. Diebel. 2,613,649, Oct. 14.
Stencil printing apparatus. K. W. Meissner. 2,613,596, Oct. 14.
Storage and relay system. A. A. Cohen, J. L. Hill, and R. M. Kalb. 2,614,169, Oct. 14.
Storage battery construction, Sealable. P. A. C. Jacquier. 2,614,138, Oct. 14.
Storage box for clothes. L. K. Frolich. 2,613,805, Oct. 14.
Strain carrier for twin strings of insulators. D. C. Hubbard. 2,613,913, Oct. 14.
Strand cushioning device. I. S. Roberts. 2,613,884, Oct. 14.
Strand tensioning device. I. S. Roberts. 2,613,886, Oct. 14.
Stud driver. E. P. Saunders. 2,613,942, Oct. 14.
Stud driver and puller. E. P. Saunders. 2,613,565, Oct. 14.
Stump saw angling beam and self-propelling and steering attachment. F. Gregson. 2,613,698, Oct. 14.
Sulfur free water gas, Production of. F. T. Bar. 2,614,038, Oct. 14.
Sunglasses, Novel type of. M. F. Kidzus and M. M. Kaye. 2,613,354, Oct. 14.
Superheating titanium tetrachloride. H. H. Schaumann. 2,614,028, Oct. 14.

Superregenerative detector. J. C. Tellier. 2,614,216, Oct. 14.
Supersonic treatment of battery materials. G. Hunrath. 2,613,877, Oct. 14.
Support: *See*—
Arch support.
Paper roll support.
Support for illuminated globe used on gasoline pumps. K. F. Smith. 2,614,207, Oct. 14.
Support for milking apparatus. H. B. Babson. 2,613,636, Oct. 14.
Support for musical instruments, Portable and collapsible. J. S. Tatar. 2,613,901, Oct. 14.
Support for shoes mounted upon lasts. F. Sbicca. 2,613,816, Oct. 14.
Surface-atomizer. A. Sher and D. Vet. 2,613,999, Oct. 14.
Switch: *See*—
Clock train periodic switch.
Delayed - action electric switch.
Flexible shaft remote - control switch.
Snap switch.
Switch casing. H. W. Wilson. 2,614,196, Oct. 14.
Switch operating means for stand lamps. J. G. Lambesis. 2,614,208, Oct. 14.
Switch register. A. L. Consalvi, G. H. Webber, and H. C. Lawrence, Jr. 2,614,181, Oct. 14.
Switch structure. R. F. Lester. 2,614,194, Oct. 14.
Switching means for conveyers. F. B. Schottelkotte. 2,613,790, Oct. 14.
Symmetrical trihydroxy benzene compounds, Preparation of. J. Krueger. 2,614,126, Oct. 14.
Synchronized centrifugal clutch. E. R. Maurer. 2,613,782, Oct. 14.
Synchronized centrifugal pawl clutch. E. R. Maurer. 2,613,783, Oct. 14.
Synthetic polymeric materials, Preparation of. S. A. Harrison and W. E. Brown. 2,614,089, Oct. 14.
Synthetic polymeric materials, Preparation of. G. L. Wheelock. 2,614,093, Oct. 14.
Synthetic thread manufacturing apparatus. H. A. Kuljian. 2,613,451, Oct. 14.
System and apparatus for handling grain. H. H. Bawden and R. E. Jenkins. 2,613,799, Oct. 14.
System of seismographic visual recording. J. A. Volk. 2,614,228, Oct. 14.
Table: *See*—
Revolving multiple color screen process printing table.
Table and seat unit, Foldable. F. Loibl, Sr. 2,613,728, Oct. 14.
Table top and back splash construction. J. Stanitz. 2,614,014, Oct. 14.
Table with detachable end leaves, Extension. M. Langlus. 2,614,013, Oct. 14.
Table with vertically adjustable top, Coffee. J. C. C. Yuan. 2,614,012, Oct. 14.
Tank ball guide. O. J. Walter. 2,613,366, Oct. 14.
Target apparatus, Portable. G. R. Tabler. 2,613,934, Oct. 14.
Telephone holder. F. Orms. 2,614,177, Oct. 14.
Telephone system. H. W. Balzer and J. E. Ostline. 2,614,174, Oct. 14.
Telescoping conveyer line. J. J. McLaughlin. 2,613,788, Oct. 14.
Temperature control dial for electric irons. J. E. Vance. 2,613,460, Oct. 14.
Tensioning means for bow saw frame. D. D. Terrill. 2,613,709, Oct. 14.
Testing for excess moisture content in refrigerating systems. P. F. Schreiber. 2,613,534, Oct. 14.
Textile detecting device. W. C. Anderson. 2,613,692, Oct. 14.
Thioformaldehyde and mercuric chloride treatment of protein filaments. G. K. Simpson and D. Traill. 2,614,024, Oct. 14.
Thread carrier driving mechanism for straight bar knitting machines. K. W. Wickhardt. 2,613,519, Oct. 14.
Three-way ball valve. P. H. Palen. 2,613,908, Oct. 14.
Throttle control device. E. D. Johnson. 2,613,648, Oct. 14.
Ticket severing device. E. W. McGhan and H. S. Ungerleider. 2,613,742, Oct. 14.
Ticket sorting apparatus. L. M. Potts. 2,613,809, Oct. 14.
Tie plate. W. S. Boyce. 2,613,876, Oct. 14.
Tie, Tied clip-on bow. J. A. Hirsch. 2,613,361–2, Oct. 14.
Tilting door. J. Wieland. 2,613,401, Oct. 14.
Time controlled cigarette case. G. H. Harris. 2,613,527, Oct. 14.
Timer for barrel washing machines. A. C. Smith and H. Hagen. 2,614,239, Oct. 14.
Timing device. N. W. Hancock. 2,614,218, Oct. 14.
Timing or drift circuits for Loran navigation systems. R. R. Freas, Jr. 2,614,159, Oct. 14.
Tire building drum. D. E. Ericson and E. E. Kwierant. 2,614,057, Oct. 14.
Titanium molybdenum alloys. W. L. Finlay. 2,614,041, Oct. 14.
Tobacco sheet material and producing the same. P. A. Surtoretto and J. H. Carter, Jr. 2,613,672–3, Oct. 14.
Toenail correcting device. R. M. Stanley. 2,613,667, Oct. 14.
Toggle fastener. T. G. Llewhellin. 2,613,974, Oct. 14.
Tool: *See*—
Combination staking tool.
Mitering tool.
Rotary driven percussive tool.
Saw setting tool.
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Torpedo depth control system. A. I. Keto. 2,613,627, Oct. 14.
Toxic bait for oyster beds. A. A. Sollers. 2,613,474, Oct. 14.
Toy, Captive hoop. C. Metz. 2,613,476, Oct. 14.
Toy carrousel. H. Singer. 2,613,931, Oct. 14.
Toy house marble game. R. A. Kitson. 2,613,937, Oct. 14.
Toy, Striking. A. B. Mellor. 2,613,475, Oct. 14.
Tractor with vibratory tool, Garden. R. P. Harshberger. 2,613,582, Oct. 14.
Transducer element and making same. G. N. Howatt. 2,614,144, Oct. 14.
Transferring liquid samples from pressure vessels. J. W. Wood. 2,613,848, Oct. 14.
Transformer cores, Making. R. C. Sefton and J. J. Zimsky. 2,613,430, Oct. 14.
Translating and selecting system. T. L. Dimond. 2,614,175, Oct. 14.
Transmission and controls therefor. H. W. Gilfillan. 2,613,773, Oct. 14.
Transmitter, Electrical impulse. W. T. Weidenman. 2,613,552, Oct. 14.
Transmitter, Signal. E. Vroom. 2,614,168, Oct. 14.
Trap: *See*—
Animal trap.
Steam trap.
Treating mica. G. de Senarclens. 2,614,055, Oct. 14.
Treatment of soya beans and other leguminous seeds. E. M. Learmonth. 2,614,045, Oct. 14.
Tree puller. C. W. Harrell. 2,613,458, Oct. 14.
Trigger circuit. J. O. Edson. 2,614,142, Oct. 14.
Trigger circuit. J. G. Kreer, Jr. 2,614,140, Oct. 14.
Tripod leg connection. J. C. Loken. 2,613,902, Oct. 14.
Truck, Industrial. M. R. Elliott and G. L. Turner. 2,613,828, Oct. 14.
Trunk circuit repeater. P. Bakker. 2,614,173, Oct. 14.
Truss. D. E. Mandell. 2,613,668, Oct. 14.
Truss pad. R. E. Haesly. 2,613,669, Oct. 14.
Tube: *See*—
Color television pickup tube.
Ruggedized kylstron tube.
Tube casing and dispenser having a rotatable and slidable closure plug, Collapsible. C. S. Frederick. 2,613,852, Oct. 14.
Tuning unit. W. J. Ostreicher. 2,614,248, Oct. 14.
Turbine and compressor blading in axial flow internal-combustion turbine power plants. W. R. Hawthorne. 2,613,909, Oct. 14.
Turbine-impact drill. W. R. Postlewaite. 2,613,917, Oct. 14.
Two-hand safety control for power machinery. C. W. Ledig. 2,613,787, Oct. 14.
Typewriter, Chinese. L. Yutang. 2,613,795, Oct. 14.
Typewriter operating apparatus. R. T. Hogg. 2,613,797, Oct. 14.
Typewriter support for desks. C. M. Abrahamson. 2,614,011, Oct. 14.
Typewriter, Training. L. A. Gecsel. 2,613,453, Oct. 14.
Unitary body frame construction. R. G. Heyl, Jr. 2,613,986, Oct. 14.
Uranium purification as complexes of esters of trifluoroacetoacetic acid. H. I. Schlesinger and H. C. Brown. 2,614,113, Oct. 14.
Use of cationic surface active agent in preparation of anionic resin in bead form. L. A. Lundberg. 2,614,085, Oct. 14.
Vacuum cleaner air nozzle and adjustable brush therefor. F. G. Walker. 2,613,388, Oct. 14.
Vacuum regulator for milking systems. W. A. Scott. 2,613,759, Oct. 14.
Valve: *See*—
Automatic cutoff valve.
Float operated measuring valve.
Fluid control valve.
Flush valve.
Flushing valve.
Hydraulic control valve.
Oil routing valve.
Pilot-operated valve.
Pressure operated reciprocating valve.
Pressure regulating valve.
Relief valve.
Three-way ball valve.
Valve. H. J. Knaggs. 2,613,688, Oct. 14.
Valve for fluid pressure systems, Safety. F. and P. J. Brousseau. 2,614,003, Oct. 14.
Valve gear for steam turbines and the like. F. H. Van Nest and L. B. Wales. 2,613,542, Oct. 14.
Valve mechanism for pneumatic tools. H. A. Gillerstrom. 2,613,646, Oct. 14.
Vapor and gas power plant utilizing equipressure vapor generator. E. Mercier and M. Ehlinger. 2,613,495, Oct. 14.
Vapor condensing apparatus and method. J. R. Shields. 2,613,513, Oct. 14.
Variable capacitor. F. Steyer and W. Werner. 2,614,149, Oct. 14.
Variable ratio booster system. W. W. Beman. 2,613,890, Oct. 14.
Vehicle: *See*—
Self - loading and unloading vehicle.
Vehicle body cowl construction. T. Ulrich. 2,613,985, Oct. 14.
Vehicle brake. W. T. Dunn. 2,613,775, Oct. 14.

Vehicle brake. C. A. Neracher and W. T. Dunn. 2,613,774, Oct. 14.
Vehicle coupling. J. O. Klein. 2,613,948, Oct. 14.
Vehicle harness, Monowheel. C. E. Giovannoni. 2,613,953, Oct. 14.
Vertical split head detecting apparatus. J. C. Dionne. 2,614,154, Oct. 14.
Vibration damping mount for machines. L. E. Stelmen. 2,613,897, Oct. 14.
Vibratory type of synchronous converter. A. J. Williams, Jr., and R. E. Tarpley. 2,614,188, Oct. 14.
Vise wrench. E. M. Hadley. 2,613,566, Oct. 14.
Visual selecting device for Chinese typewriters and the like. L. Yutang. 2,613,794, Oct. 14.
Voltage regulating apparatus. N. D. Diamantides. 2,614,241, Oct. 14.
Volt-ampere meter. P. Baxter. 2,614,139, Oct. 14.
Volumetric hydraulic system for precisely controlling position. H. B. Calvert. 2,613,703, Oct. 14.
Wall form system. W. H. Kenney. 2,613,424, Oct. 14.
Wallet. I. Jaguden. 2,613,717, Oct. 14.
Wallpaper pasting and trimming machine. W. C. Renne. 2,613,632, Oct. 14.
Washing machine having a resiliently supported tub structure. E. O. Morton. 2,613,837, Oct. 14.
Watch hand pressing tool. J. W. Clark. 2,613,562, Oct. 14.
Waterproof watchcase. H. Dinstman. 2,613,494, Oct. 14.
Wave generating circuits. A. M. Skellett. 2,614,222, Oct. 14.
Wave motor assembly. H. M. Smurr. 2,613,868, Oct. 14.
Wax paper dispenser. C. L. McGehee. 2,614,015, Oct. 14.
Wax powder applicator and offset eliminator. W. R. Dreesen. 2,613,633, Oct. 14.
Weapons handling unit. R. M. Stanley. 2,613,822, Oct. 14.
Wear plate for the breech mechanism of guns. S. J. Finn. 2,613,576, Oct. 14.
Weather seal for closures. A. G. Dean. 2,613,617, Oct. 14.
Weather strip. D. C. Bailey. 2,613,408, Oct. 14.
Weather stripping. H. B. Foresman. 2,613,407, Oct. 14.
Weaving loom. F. J. Ahrens. 2,613,691, Oct. 14.
Web winder reel. A. K. Post. 2,613,880, Oct. 14.
Weighing machine, Automatic. L. R. Muskat. 2,613,905, Oct. 14.
Weight determining apparatus. E. J. Demas. 2,613,927, Oct. 14.
Weighting member for card sorting racks. A. L. Mohrmann. 2,613,815, Oct. 14.
Welding helmet with air pressure responsive shiftable eye protective lens. W. A. Schnitzler. 2,613,353, Oct. 14.
Well tester. T. S. West. 2,613,747, Oct. 14.
Wet blasting apparatus. K. F. Hamacher. 2,613,482, Oct. 14.
Wheel checking device. N. J. Brouwer. 2,613,447, Oct. 14.
Wheel cover securing means. N. Ryeroft. 2,614,001, Oct. 14.
Wheel for tractors, Auxiliary. F. White. 2,613,955, Oct. 14.
Wheeled carrier for suitcases, Folding. E. P. Bartlett. 2,613,950, Oct. 14.
Window for pressurized chambers. A. Gouge. 2,613,402, Oct. 14.
Window lock. N. O. Holmsten. 2,613,526, Oct. 14.
Window raising and cleaning unit. W. A. Bowman. 2,613,738, Oct. 14.
Window washing and wiping device. E. W. Collins. 2,613,384, Oct. 14.
Windshield cleaner. J. R. Oishei. 2,613,387, Oct. 14.
Windshield wiper drive mechanism. E. E. Sivacek. 2,613,386, Oct. 14.
Windshield wiper having a curved spring wiper arm. H. N. Wylie. 2,613,385, Oct. 14.
Wire frame for brassières, Detachable. L. Fairbanks and P. Rosenfeld. 2,613,365, Oct. 14.
Wire rolling mill. J. Rozières. 2,613,560, Oct. 14.
Wire tuning drive. D. B. Keim. 2,613,540, Oct. 14.
Wood clamp. A. A. Hocher. 2,613,963, Oct. 14.
Work guiding means for shoe sewing machines. W. D. Shaffer. 2,613,624, Oct. 14.
Work holder. L. L. Pricer. 2,613,557, Oct. 14.
Woven ladder webbing. G. F. and R. French. 2,613,694, Oct. 14.
Wrench: *See*—
Vise wrench.
Wrench with a lever and cam feed sliding jaw, Handgrip. F. A. Tenerowicz and L. Bortolotti. 2,613,567, Oct. 14.
Yarn or thread holder. M. C. Tuttle. 2,613,885, Oct. 14.
Zinc sulfide type phosphors containing magnesium sulfide. A. L. J. Smith. 2,614,082, Oct. 14.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 14, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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CLASSIFICATION OF DESIGNS

D 8— 1: Des. 167,956
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U. S. GOVERNMENT PRINTING OFFICE: 0—1952

Condition of Applications Under Examination at Close of Business September 26, 1952

Total number of patent applications awaiting action, 96,557. Date of oldest new application, December 27, 1951; date of oldest amended application, December 28, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
•(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	1-12-52	1-12-52	1506
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-20-52	2-1-52	1199
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	2-28-52	2-29-52	1661
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	1-5-52	1-2-52	1427
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-11-52	1-10-52	1121
6. SURLE, H., Carbon Chemistry (part)	2-2-52	2-8-52	2019
7. ANDERSON, E. G., (Acting), Optics; Photography (part)	2-1-52	1-26-52	1374
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	2-1-52	1-31-52	1331
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	1-3-52	1-2-52	1445
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	1-23-52	1-22-52	1324
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	1-10-52	1-15-52	1179
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	1-2-52	1-2-52	1258
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	12-27-51	12-29-51	1186
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus.	1-10-52	1-7-52	1453
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	2-28-52	2-28-52	1412
16. LOVEWELL, N. N., Television, Telephony	1-22-52	1-17-52	1352
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	1-2-52	1-3-52	1321
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-4-52	1-2-52	821
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-14-52	1-9-52	1093
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	1-18-52	1-19-52	1373
21. MADER, R. C., Textiles	1-3-52	1-5-52	1321
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	1-8-52	1-8-52	1110
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	1-23-52	1-17-52	820
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	2-7-52	2-7-52	1377
25. McNAB, J. C., (Acting), Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	1-10-52	1-4-52	1432
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	1-15-52	1-14-52	1183
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	1-25-52	1-25-52	1387
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	1-2-52	1-2-52	1214
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	1-12-52	2-2-52	1237
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	2-7-52	2-7-52	1478
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	1-31-52	1-12-52	2279
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-proportioning Systems.	1-23-52	1-14-52	1266
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-11-52	1-9-52	1762
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	1-10-52	1-10-52	1077
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-11-52	1-16-52	1317
36. McFADYEN, A. D., Measuring and Testing	1-18-52	1-16-52	1111
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	1-23-52	1-23-52	1231
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-7-52	1-7-52	1577
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	2-13 52	2-8-52	1267
40. DRUMMOND, E. J., Receptacles (part); Packages	3-4-52	3-4-52	1232
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	1-23-52	2-19-52	893
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	1-26-52	1-24-52	1035

•Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 96,557. Date of oldest new application, December 27, 1951; date of oldest amended application, December 28, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
43. SCHWARTZ, A. C. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	2-4-52	1-17-52	1409
44. HARVEY, L. P., Beds; Chairs; Seats	1-7-52	1-7-52	1129
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	2-2-52	1-31-52	1198
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	1-10-52	12-28-51	1109
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	12-31-51	1-2-52	1581
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	1-16-52	1-14-52	1648
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	1-2-52	1-2-52	1399
50. BENGEL, W. G., Synthetic Resins; Rubber	2-25-52	2-27-52	1528
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	1-29-52	1-28-52	1402
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	1-31-52	1-28-52	2004
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-30-52	1-28-52	927
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	1-3-52	12-29-51	1689
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-2-52	1-16-52	1013
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	1-16-52	1-17-52	1929
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	2-12-52	2-8-52	1533
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	1-28-52	1-18-52	1175
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	1-30-52	1-31-52	1072
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	2-20-52	2-7-52	881
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	1-9-52	1-8-52	1281
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	2-6-52	1-28-52	1156
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	1-2-52	1-2-52	1719
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	1-21-52	1-12-52	1727
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	1-22-52	1-22-52	1430
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-2-52	12-29-51	922
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	3-1-52	2-23-52	1139
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-14-52	2-7-52	1411
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	1-5-52	1-2-52	1220
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	12-31-51	1-2-52	3007
DESIGNS: A. BREHM, G. L., Industrial Arts	6-12-52	7-1-52	698
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	6-3-52	6-2-52	760

Total number of trade-mark applications awaiting action (including renewals and republications), 14,578. Date of oldest new application, April 1, 1952; date of oldest amended application, April 2, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	4-9-52	4-9-52	3454
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	4-9-52	4-10-52	3704
Renewals (All Classes)	7-1-52	7-26-52	635
Republications (All Classes)	7-2-52	7-14-52	294
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	4-1-52	4-10-52	3587
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-8-52	4-2-52	2904

DECISIONS IN PATENT AND TRADE-MARK CASES

Assistant Commissioner's Decision

IN RE APPLICATION FILED JULY 24, 1948

Decided March 25, 1951

TRADE-MARKS — CONVERSION TO SUPPLEMENTAL REGISTER—NOT PERMITTED AFTER FINAL DECISION.

Rule 13.5, Rules of Practice in Trade-Mark Cases, so construed that an applicant who elects to prosecute a case to final decision and an appeal on one register is not entitled thereafter to convert to the other register.

ON PETITION.

Murphy, Assistant Commissioner.

The applicant petitions from the refusal of the Head of Trade-Mark Operations to permit the conversion of this application from the Principal to the Supplemental Register. The record shows that the application was prosecuted before the Examiner as one on the Principal Register and was finally rejected by the Examiner. Thereafter appeal was taken and the decision of the Examiner was affirmed by the Examiner-in-Chief. Following that decision the applicant filed a request to convert the application to the Supplemental Register and such request was denied by the Head of Trade-Mark Operations on the ground that it was made too late.

While it is true that Rule 13.5 does not expressly preclude an amendment to convert an application from one register to the other after a decision has been made on appeal, it is thought that the reasonable construction of that rule is that any such conversion should be made while the case is still pending before the Examiner and that an applicant who elects to prosecute a case to final decision and on appeal on one register is not entitled thereafter to convert to the other register and begin anew.

The refusal to permit conversion of this application was therefore proper and the petition is denied.

U. S. Court of Customs and Patent Appeals

IN RE JOHN H. RICE

No. 5852. Decided March 18, 1952

[— F.2d —; 93 USPQ 170]

1. PATENTABILITY—INVENTION—MODIFICATION OF REFERENCE SUGGESTED BY APPLICANT'S DISCLOSURE.

Where the Board of Appeals held that the modification of the reference, as disclosed by appellant, was not inventive, *Held* that the Board's conclusion did not necessarily follow, since after a knowledge of a new device has been acquired, it is not difficult to then see how another device, though different from the former, could be employed in the same fashion.

2. SAME—PARTICULAR SUBJECT MATTER—GAME BOARD.

A certain claim to a game board *Held* to exhibit invention over the prior art.

APPEAL from Patent Office. Serial No. 641,719.

REVERSED.

Charles C. Reif and *Edwin A. Blosk* for appellant.

E. L. Reynolds for the Commissioner of Patents.

WORLEY, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office sustaining that of the Examiner in finally rejecting as unpatentable over the prior art the single claim of appellant's patent application for an invention relative to certain new and useful improvements in "Game Apparatus."

The claim reads as follows:

7. A game board comprising a surface marked to provide a square center area, a rectangular wing area extending from each side of said center area with one side coincident with a side of the center area, said center and wing areas being divided by intersecting lines to provide rows of checkered squares of substantially equal size, each corner at the juncture of adjacent wing areas having three squares marked therein to provide paths of movement between two rows of said wing areas for a game wherein playing pieces are to be moved along paths diagonal to the squares of said areas, alternate squares of the respective rows being of different color, and an undivided zone at the outer margin of each wing area extending the full length of said area and having a width corresponding to one side of said squares for a game wherein a playing piece is to be moved throughout the length of said outer zone into registration with any of the rows perpendicular to said elongated zone, said squares and zones constituting coplanar playing surfaces.

The references relied on are: Standidge, 701,414, June 3, 1902; Billman, 1,555,937, October 6, 1925; Simpkins, D-124,373, December 31, 1940.

The invention claimed by appellant is aptly described by the Primary Examiner as follows:

• • • a checkered board which is a modification of the conventional checkerboard in that it has end or wing portions added to the marginal portions of a checker board. A wing portion rectangular in shape, three spaces wide and equal in width to the length of one side of the main section is added to each side with the checkered spaces of the wings coinciding with the rows of spaces or squares of the mainboard to form a cruciform type of checker board. A plurality of additional squares, • • •, three in number, are provided in each corner between the ends of the rectangular portions with the sides of adjacent squares being colored differently to form horizontal and vertical extensions of the center or main playing area to provide paths of travel from one wing area to an adjacent one without passing through the central portion. Each wing has an elongated zone, one square wide and extending across the entire width and at the outer end thereof. All end zones being of the same color. • • •

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PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $22.75 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

With the apparatus described various forms of checker games may be played. For the conventional game of checkers the center or main portion of the board is used. Using the wing portions a three or four handed game of checkers could be played but the game preferred by the applicant is similar to "Chinese Checkers" and which he calls "Yankee Checkers" and which can be played by two, three or four players. In the main, the game is similar to the class of games which go under the name of "Chinese Checkers." Some of the rules applicant's [sic] which are different from that game will be pointed out since they relate to some of the elements on the board. * * *

The elongated end zones * * *, positioned at the outermost ends of the wings, are used as shifting areas for the playing pieces. A player can move into this area from any playing square bordering said zone and he can move sidewise any distance therein he wishes before moving into another square of the same wing portion. This feature is supposed to give the player greater flexibility in making his plays. The corner squares * * * permit the passage of a playing piece from wing section to another without being compelled to pass through the main section of the board. * * *

The Examiner rejected the claim because he did not regard it as being patentably distinct from the prior art. He stated that the Standidge, Billman and Simpkins patents each discloses a cruciform type of checkerboard; that the Standidge board was the same size as appellant's board and provided four areas juxtaposed to the four wings which could be used, if desired, as shifting zones similar to those claimed by appellant. He was further of the opinion that the Billman board anticipated appellant's structure because three extra spaces are provided in the corners between the wings of the patent device, acting as extensions of the rows of spaces therein. He held that such spaces could be employed in the same manner in which appellant uses his own cornered spaces. He also held that, although the Standidge specification was silent in that regard, there is shown by the drawing therein shaded narrow portions adjacent the outer row of spaces and coterminous therewith which could be used as shifting zones if that feature were found to be desirable in playing a modified game of checkers.

In responding to the argument advanced by counsel for the appellant, that the narrow strips shown in the Standidge reference were not a part of the device itself and not coplanar with the playing surface, the Examiner held it was immaterial whether such strips were on the same plane as the playing surface because they could still be used for shifting the pieces from one column to another, and added that even though they were not coplanar the difference was insignificant because the degree would be but the thickness of the game board and that it could be used for the shifting purpose of appellant.

The Board of Appeals sustained the Examiner. In denying appellant's petition for reconsideration it stated it could find no patentability in merely providing the board of the Standidge patent, which it considered as being most pertinent with extensions having undivided, or shifting, zones.

Counsel for appellant states in his brief that:

> The main novelty in appellant's board or the main novel feature thereof is in the provision of the additional zones * * *. These zones constitute the greatest difference in appellant's board over the prior art and these zones produce *new functions* of the board and *new results* are produced in the additional possibilities of play. * * *
>
> Using the [shifting] zone * * * and playing the regular and well-known game of checkers, a piece can be moved into said zone from any of the squares adjacent or contacting said zone. The piece can then be moved lengthwise of [the shifting] zone * * * so as to come into alignment with any of the squares contacting said zone. It will readily be seen that this *really produces a new game*. The possibilities of maneuvering the pieces on the board to get into advantageous positions are *greatly* increased. Said zone * * * could be used as the king row so that the opponent's pieces would have to be moved into said zone before they would become kings. The end rows in the portions * * * could be used as the king rows, as in common, and then the kings could be moved into the zone * * * and would then acquire the privilege of moving into the unshaded squares, * * * and could also have the privilege of moving any distance lengthwise of [the shifting] zone * * *.
>
> It is thus readily seen that a really new game and gameboard is produced having *many more possibilities of plays* and much more flexibility in maneuvering the pieces into advantageous positions. * * *
>
> * * * It is apparent therefore that appellant has a novel structure constituting a *novel combination*, which *combination* produces *new functions* and *new and useful results*. [Italics quoted.]

We are in agreement with the Board of Appeals on all points except its conclusion that no patentability exists in the idea of forming the undivided or shifting zones as extensions of the Standidge reference.

It is to be noted that the Examiner held the lateral shaded zones in Standidge were a part of the game board itself, but the Board agreed with appellant that the shaded areas did not constitute a part of the board itself but was a part of the playing table upon which the board rested. An examination of the Standidge specification and drawing convinces us of the correctness of the Board's holding in that respect. The Board did hold, however, that if players were informed of the rules devised for using the board of appellant the game could be played on Standidge even though the board and table on which it is placed were not coplanar; and held further that an extension of the Standidge board as disclosed by the appellant did not constitute invention. [1] That, in our opinion, does not necessarily follow. Of course after a knowledge of a new device has been acquired, it is not difficult to then see how another device, though different from the former, could be employed in the same fashion. In our opinion appellant's conception of the shifting zone, offering as it does a new and different structure which provides an opportunity for a multitude of new games, required something more than ordinary skill.

We do not believe that any of the references or combination thereof are sufficient upon which to base a rejection of the claim directed to the shifting zone as disclosed by the appellant. Incidentally, it may be noted that the Standidge device was patented nearly fifty years ago, and as far as prior art is concerned it was not until appellant offered his invention were any changes made to provide a shifting zone. We feel the appellant has disclosed a new and novel feature relating to game apparatus and that such disclosure required the exercise of invention.

[2] For the reasons set out above, we feel that the decision of the Board of Appeals should be, and is hereby, reversed.

REVERSED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,082,413, Mueller & Yancey, Well head equipment; 2,117,444, same, Method of setting and equipping casing in wells and drilling under control; 2,150,887, same, Method and apparatus for completing wells; 2,241,333, R. Smith, Well head, D. C., S. D. Tex. (Houston), Doc. 2747, *Gray Tool Co.* v. *Humble Oil & Refining Co.* Order of dismissal with prejudice July 22, 1952.

2,117,444. (See 2,082,413.) 2,150,887. (See 2,082,413.)

2,241,333. (See 2,082,413.)

2,279,435, E. Berg, Hair net, D. C., S. D. N. Y., Doc. 75/127, *Regal Mfg. Co., Inc.* v. *M. B. H. Knitting Mills, Inc., et al.* Consent decree, defendants enjoined July 23, 1952.

2,299,331. (See 2,588,183.)

2,410,321, W. S. Watts, Electrical connector; 2,429,585, J. Rogoff, Pressed insulated connector, filed July 28, 1952, D. C. Conn. (New Haven), Doc. 3924, *Aircraft-Marine Products, Inc.* v. *Burndy Engineering Co., Inc.*

2,429,585. (See 2,410,321.)

2,459,110, S. P. Midouhas, Collapsible clothes line, filed Sept. 6, 1952, D. C., E. D. N. Y. (Brooklyn), Doc. C–12080, *Kampkap, Inc.* v. *Anchor Hardware, Inc.*

2,503,599, E. J. Smayda, Jr., Cabinet, D. C., N. D. Ohio (Cleveland), Doc. 27512, *E. J. Smayda, Jr.* v. *Crescent Metal Products, Inc., et al.* Stipulation of counsel dismissing case July 10, 1952.

2,519,121, S. M. Del Camp, Electrical socket and contact therefor, D. C., N. D. Ill. (Chicago), Doc. 51c1668, *Cinch Mfg. Corp.* v. *General Laminated Products, Inc.* Consent judgment holding patent valid and infringed, injunction July 21, 1952.

2,538,552, L. L. Beery, Door lock repair unit, filed July 24, 1952, D. C., E. D. Mich. (Detroit), Doc. 11981, *Roto Lokit Co.* v. *Regal Motor Products, Inc.*

2,588,183, J. Vigon, Hollow fluorescent character and mounting; 2,299,331, C. Marinone, Sign, D. C., N. D. Ill. (Chicago), Doc. 52c512, *Precision Plastic Products Co.* v. *Neo Products Co.* Consent judgment holding patents valid and infringed, injunction July 21, 1952.

2,593,392. (See Des. 158,439.)

2,593,859, A. H. Dunlap, Shoulder-bead for use in dry-wall, filed July 1, 1952, D. C., W. D. Wash. (Seattle), Doc. 3132, *A. H. Dunlap* v. *Pioneer Sand & Gravel Co.*

2,597,154, M. Maccaferri, Stringed musical instrument, filed July 22, 1952, D. C., S. D. N. Y., Doc. 77/238, *French American Reeds Mfg. Co., Inc.* v. *Emenee Industries.*

2,597,695. (See Des. 158,439.)

2,603,891, G. Cohn, Slipper, filed July 23, 1952, D. C., S. D. N. Y., Doc. 77/253, *Gustave, Inc.* v. *Bertlyn Corp.*

Des. 145,124, C. Fenton, Wind control weatherproof feed box, filed July 24, 1952, D. C., S. D. Fla. (Tampa), Doc. 2214–T, *C. Fenton* v. *D. Knight.*

Des. 151,732, W. G. Bley, Lady's stocking, D. C., S. D. N. Y., Doc. 67/264, *Sanson Hosiery Mills, Inc., et al.* v. *Rivoli Hosiery Co., Inc.* Consent judgment holding design valid, injunction granted July 24, 1952.

Des. 158,439, 2,593,392, Budlane & Dusek, Electric deep frier; 2,597,695, Braski & Schwaneke, Cooking utensil, supplemental counterclaim filed July 3, 1952, D. C., N. D. Ill. (Chicago), Doc. 50c1647, *Dulane, Inc.* v. *Dormeyer Corp.*

Des. 166,987, H. L. Miller, Wind deflector, filed July 25, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1578, *Sinko Mfg. & Tool Co.* v. *Rowse Mfg. Co.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 344,245, D. E. Kennedy, Inc., Floor tile; T. M. 396,155, same, Asphalt tile, filed July 23, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13978, *Kentile, Inc.* v. *Royal Carpet Co. et al.*

T. M. 396,155. (See T. M. 344,245.)

T. M. 433,899. (See T. M. 507,943.)

T. M. 507,943, T. M. 523,809, T. M. 433,899, T. M. 518,524, The Spring Cotton Mills, Sheets, pillow cases, table cloths, etc., filed July 25, 1952, D. C., S. D. N. Y., Doc. 77/282, *The Springs Cotton Mills et al.* v. *Springtex Fabrics Co.*

T. M. 508,653, A. H. Robins Co., Inc., An antirheumatic preparation in tablet form, filed July 23, 1952, D. C., S. D. N. Y., Doc. 77/245, *A. H. Robins Co., Inc.* v. *Bonded Laboratories, Inc., et al.*

T. M. 518,524. (See T. M. 507,943.)

T. M. 523,809. (See T. M. 507,943.)

NOTICES

Erratum

In the OFFICIAL GAZETTE, September 30, 1952, page 1201, Decisions in Patent and Trade-Mark Cases, *In re Shackell*, first column, line 4, for the references "[F.2d 720; 90 USPQ 34]" read [*194 F.2d 720; 90 USPQ 34*].

Adjudicated Patent

(D. C. Mass.) Clayton Patent No. 2,528,035, for a switch. Claims 1 to 4 *Held* invalid. *Essex Wire Corporation* v. *Cole-Hersee Company*, 105 F. Supp. 752; 93 USPQ 292.

Order No. 5300

Mr. Archibald R. McCallum, whose post office address is 7019 Georgia Avenue, N. W., Washington, D. C., and whose registration number is 12754, is hereby excluded from practice as an attorney in any and all applications before the United States Patent Office.

This action is taken under the provisions of Section 487, Revised Statutes (U. S. C. title 35, Section 11).

THOMAS F. MURPHY,
Assistant Commissioner.

Aug. 28, 1952.

Cancellation Notice

Eldo H. Ewald, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Vitalic Battery Company, Inc., 2040 Amelia Street, Dallas, Texas, to effect the cancellation of trademark registration of Eldo H. Ewald (Allied Dealers Company, assignee, substituted, Mason City, Iowa), No. 320,045, dated December 18, 1934, and the notice of such proceeding sent by registered mail to the said Allied Dealers Company, at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless said Allied Dealers Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Oct. 7, 1952.)

THOMAS F. MURPHY,
Assistant Commissioner of Patents.

Sept. 15, 1952.

Extension of Patent Granted

Patent No. 2,040,248, TYPEWRITER KEYBOARD. Granted May 12, 1936. August Dvorak and William L. Dealey. The above cited patent has been extended under the provisions of the act of June 30, 1950, 64 Stat. 316, as amended, Public Law 437—82nd Congress, for 6 years and 93 days from the expiration of the original term thereof.

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,418,136, W. A. Munson and J. C. Steinberg, Acoustic range finder, decided Sept. 9, 1952, claim 1.

Pat. 2,442,951, H. A. Iams, Systems for focusing and for directing radio frequency energy, decided July 24, 1952, claims 1 and 2.

Pat. 2,518,389, M. S. Sisulak, Side delivery rake, decided Sept. 18, 1952, claims 1 and 3.

Pat. 2,528,265, C. J. Cretors, Elevator mechanism, decided Aug. 18, 1952, claims 1, 2, and 3

Pat. 2,531,141, W. F. Lootens, Demagnetization of electromagnetic recording heads, decided July 24, 1952, claims 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10.

Pat. 2,540,751, H. J. Mumma, Egg totalizers, decided Sept. 24, 1952, claims 1, 3, 4, 5, 6, and 11.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

E. I. du Pont de Nemours and Company has placed on the Register, as available for licensing on reasonable terms, 288 patents contained in Schedules XXIV, XXV, and XXVI. The listing was begun in the OFFICIAL GAZETTE, Oct. 7, 1952, and is concluded in this issue. The present listing includes Reg. Nos. 49,381 through 49,516.

Inquiries concerning these patents should be addressed to: Patent Division, E. I. du Pont de Nemours and Company, Wilmington, Del.

SCHEDULE XXIV (284 patents)—*Continued*

Unrestricted licenses will be granted under these patents.

Pat. 2,475,886. Sulfonated Copolymer of Styrene and Maleic Anhydride. July 12, 1949. A styrene/maleic anhydride copolymer in which a plurality of sulfonic groups are attached to aromatic carbon atoms of the styrene. Group 28—81.

Pat. 2,478,619. Method of Extraction. Aug. 9, 1949. A method of extracting ether-soluble substances from colloided material, e. g., smokeless powder, wherein the solvent is continuously recycled. Group 28—84.

Pat. 2,479,409. Coating Compositions and Articles Coated Therewith. Aug. 16, 1949. Sheet metal coated with a mixture of a heat-hardening phenol-formaldehyde resin and a dialkyl fumarate (or maleate)/vinyl chloride copolymer. Group 28—34.

Pat. 2,480,109. Benzanthronylamino-Thiophanthraquinone Compounds. Aug. 30, 1949. 5(or 8)-(3-benzanthronylamino)-thiophanthraquinones in which the 9-position of the benzanthraquinone and/or the 2-position of the thiophanthraquinone may be substituted with halogen. Group 28—86.

Pat. 2,480,110. Benzanthrone-Thiophanthraquinone Acridines. Aug. 30, 1949. Vat dyes obtained by the caustic alkali condensation of the compounds claimed by U. S. Pat. 2,480,109. Group 28—81—89.

Pat. 2,480,111. Benzanthronylamino-Thiophanthraquinone Compounds. Aug. 30, 1949. 5(or 8)-(3-benzanthronylamino)-thiophanthraquinones in which the benzanthronyl group is substituted in the 9-position with an anthraquinonylamino or a 5(or 8)-thiophanthraquinonylamino group. Group 28—81—89.

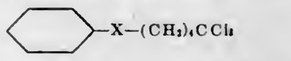
Pat. 2,480,112. Aminobenzanthrone-Thiophanthraquinone Acridines. Aug. 30, 1949. Vat dyes produced by the caustic alkali fusion of the compounds claimed by U. S. Pat. 2,480,111. Group 28—81—89.

Pat. 2,481,916. Apparatus for Processing Yarn. Sept. 13, 1949. Pan washing yarn on a horizontal reel or the like. Washing or other treating liquid may be cascaded down corrugated trays mounted around the lower half of the reel or the yarn on the reel may merely touch the liquid in pans beneath the reel. Groups 22—23; 35—52.

Pat. 2,485,237. Synthesis of Aromatic Aldehydes. Oct. 18, 1949. Synthesis of aromatic aldehydes from an aromatic hydrocarbon and CO in the presence of a mixed anhydrous hydrogen fluoride-boron trifluoride catalyst. Group 28—86.

Pat. 2,487,223. Adhesive Compositions. Nov. 8, 1949. Thermosetting adhesive containing formaldehyde, an acidic catalyst, and a polyvinyl butyral having a hydroxyl number of 40–200. Group 28—83.

Pat. 2,489,935. 5,5,5-Trichloropentyl Phenyl Ethers. Nov. 29, 1949. A compound of formula



where X is oxygen or sulfur. Group 28—86—89.

Pat. 2,490,454. Process for the Recovery of Hydrogen Chloride From Off-Gas. Dec. 6, 1949. HCl is recovered from gas liberated in chlorinating ethanol by cooling in a series of stages to liquefy a fraction of organic vapors in each stage. Group 28—89.

Pat. 2,490,677. Aqueous Dispersion of a Salt of an N-Monoalkyl Substituted Polymeric Amic Acid. Dec. 6, 1949. Aqueous dispersion of an ammonium or amine salt of an N-monoalkyl substituted polymeric amic acid of an interpolymer of a polymerizable organic compound containing an ethylenic double bond with a butenedioic acid anhydride, and fabric coated therewith. Group 28—83.

Pat. 2,491,472. Polymerization of Vinylpyridines. Dec. 20, 1949. The process which comprises polymerizing in an aqueous solution a salt of a monomeric vinyl pyridine with an acid having a dissociation constant of at least 1.49×10^{-4}. Group 28—83.

Pat. 2,491,915. Process for the Preparation of Acetals. Dec. 20, 1949. Preparation of acetals by reacting CO and H_2, in the presence of a cobalt catalyst, with a monoethylenic acyclic hydrocarbon and a lower primary or secondary alkanol. Group 28—89.

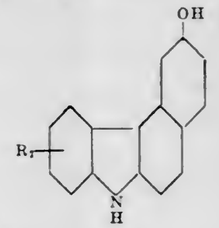
Pat. 2,493,615. Beta-Chloroethyl-p-Trichloromethyl Benzoate. Jan. 3, 1950. The compound beta-chloroethyl-p-trichloromethyl benzoate. Group 28—86.

Pat. 2,497,303. Reaction Between Olefinic Compounds, Carbon Monoxide, and Hydrogen in the Presence of a Metal Carbonyl Catalyst. Feb. 14, 1950. Reaction of an olefinic compound with carbon monoxide and hydrogen, using cobalt, nickel, or iron carbonyl as the catalyst. Group 28—86.

Pat. 2,497,310. Synthesis of Amines. Feb. 14, 1950. Synthesis of amines by heating an olefinic compound with carbon monoxide, hydrogen and ammonia or an amine in the presence of a metallic cobalt catalyst. Group 28—86.

Pat. 2,497,810. Production of Peroxide Solutions. Feb. 14, 1950. Hydrogen peroxide produced by reacting aqueous metal peroxide (barium or sodium) with an acidified cation-exchange resin of the sulfonated phenol formaldehyde condensation type. Group 28—89.

Pat. 2,499,800. Azo Dyes Formed From p-Nitro-Anilines and 2-Hydroxy-7-Benzo-(c) Carbazoles and Their Formation on the Fiber. Mar. 7, 1950. Compounds in which the diazo of 4-nitroaniline or its derivatives in which the 2-position is substituted by C_1-^{5} alkyl or alkoxy or chloro or fluoro groups is coupled to the 1-position of a compound of the formula



Group 28—81—89.

Pat. 2,502,340. Polyamide Cold Bonded Laminate. Mar. 28, 1950. A laminate, particularly plywood, bonded with an adhesive containing an alcohol soluble N-alkoxymethyl polyamide and a process of cold bonding the laminate at a temperature below 100° F. Group 28—89.

Pat. 2,502,344. Delta-(5-Carboxy-2-Thienyl)-Valeric Acid and Esters. Mar. 28, 1950. 2-thiophenevaleric acid and its alkyl esters in which the thiophene nucleus is substituted in the 5-position with —CN, —COOH, or the lower alkyl esters of —COOH. Group 28—31.

Pat. 2,502,353. Coated Fabric and Process of Making Same. Mar. 28, 1950. A coated fabric upholstery material comprising a fabric base coated with a neoprene composition having a topcoat of a copolymer of butadiene-acrylonitrile and an alkyd resin formed in situ. Group 28—83.

Pat. 2,504,153. Sulfur Colors of Novel Shades and Method of Preparing the Same. Apr. 18, 1950. Reacting with an addition compound of constitution $AlCl_3$—$2S_2Cl_2$ upon a triphendioxazine compound and dyes so obtained. Group 28—81—89.

Pat. 2,504,207. Smear for Screwworm Control. Apr. 18, 1950. Aqueous emulsion with a solution of diphenylamine in benzol as the dispersed phase. Group 28—31.

Pat. 2,504,382. Miticidal Compositions Comprising a 2,2-Bis-(Para-Alkoxyphenyl)-Propane. Apr. 18, 1950. A 2,2-bis-(para-alkoxyphenyl) propane in admixture with a surface-active agent. Group 28—31.

Pat. 2,505,253. Thenoylaminoanthraquinones. Apr. 25, 1950. Mono- or bis(2-thenoylamino)anthraquinones in which the thiophene may be substituted in the 5-position with halogen, methyl, or nitro groups and in which the anthraquinone may be substituted by not more than three Cl, Br, NO_2, NH_2, OH, or OCH_3 groups. Group 28—81—89.

Pat. 2,506,571. Acetals From Acrylonitrile, Carbon Monoxide, Hydrogen, and Alcohols. May 9, 1950. Preparation of cyano-acetals by heating acrylonitrile, CO, and a primary or secondary aliphatic alcohol in the presence of a ruthenium or other hydrogenation catalyst. Group 28—86.

Pat. 2,512,708. Resorcinol-Aldehyde Tanning Product. June 27, 1950. Tanning composition containing mixture of a water-soluble tanning resorcinol-aldehyde polymer with 25–150% of a water-soluble boron-oxygen compound, the aldehyde having less than 12 carbon atoms, and the ratio of resorcinol to aldehyde being from 2 : 1 to 5 : 1. Group 28—81.

Pat. 2,512,969. Dyeing of Acrylonitrile Polymers Using Acetate Dyes and M-Cresol as an Assistant. June 27, 1950. A process for dyeing structures prepared from acrylonitrile polymers which comprise treating said structures with an aqueous dyebath containing meta-cresol and a dispersed acetate dye. Group 28—81—89.

Pat. 2,518,442. Plasticized Vinylidene Chloride Copolymers. Aug. 15, 1950. Use of polyoxyalkylene ethers of ring dehydration products of hexitol as plasticizers for vinylidene chloride copolymer. Group 28—83.

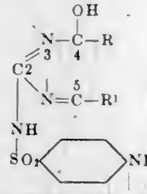
Pat. 2,519,037. Preparation of 3′-Bromo-4′-Methyl-2-Benzoylbenzoic Acid. Aug. 15, 1950. Bromination of o-(p-toluyl)benzoic acid with bromine in sulfuric acid of 82.5 to 92.5% strength with 1 to 2 atoms of bromine per mole of p-toluylbenzoic acid in the presence of 1 to 2 molar equivalents of sulfuryl chloride. Group 28—89.

Pat. 2,519,764. Esters of Maleic Acid. Aug. 22, 1950. Resinous esters obtained by reacting a C_3—C_4 2-alkenol (allyl alcohol), a C_8—C_8 normal alkanol, and a copolymer of maleic anhydride with a polymerizable monovinyl compound. Group 28—83.

Pat. 2,519,803. Preparation of Ethylene Diamines. Aug. 22, 1950. The steps of aminating aqueous formaldehyde cyanhydrin to aminoacetonitrile, heating the mixture in water to 65°–95° C. for 3 minutes at 5–80 mm. pressure separating the aminoacetonitrile vapor from the vapor-liquid mixture, cooling the nitrile vapor to 5° C. in less than ½ hour, subjecting the purified nitrile to hydrogenation at 25°–300° C. and 100 atm. in the presence of a hydrogenation catalyst. Group 28—89.

Pat. 2,521,705. Cyanine Dyes. Sept. 12, 1950. Symmetrical carbocyanine dyes are derived from 2-methyl 5-benzoyl benzoxazole by reacting a quaternary salt of 2-methyl-5-benzoyl benzoxazole with an alkyl ortho ester of a carboxylic acid in the presence of an acid binding agent. Group 28—81—89.

Pat. 2,523,528. N′(4-Hydroxy-4-Isoimidazol-2-yl) Sulfonamides and Their Production. Sept. 26, 1950. A compound of the formula



and its alkali metal salts, where R and R^1 are hydrogen or alkyl; and process for manufacture. Group 28—86.

Pat. 2,526,742. Ketones From Secondary Alcohols, Olefinic Compounds, and Carbon Monoxide. Oct. 24, 1950. Reaction of a saturated secondary alcohol, a non-aromatic olefinic linkage compound, and CO in the presence of a catalyst consisting of reduced cobalt oxide hydrogenation catalyst and cobalt salts of organic carboxylic acids, in the absence of an inorganic acidic catalyst, the reaction at a pressure in excess of 50 atm. and at 100°–500° C.; separating the ketone from the resulting mixture. Group 28—89.

Pat. 2,531,197. Asymmetrical Dichloroethylene/Isobutylene Interpolymers. Nov. 21, 1950. An interpolymer consisting of interpolymerized asymmetrical dichloroethylene and isobutylene containing 5 to 30% of the latter compound by weight. Group 28—34.

Pat. 2,532,983. Plywood. Dec. 5, 1950. Laminated structures, especially plywood, in which the laminae are bonded by an adhesive obtained by heating a composition containing a peroxy compound and a vinyl carboxylate polymer alone or admixed with a heat convertible condensation product of an aldehyde with a phenol amide. Group 24—32.

Pat. 2,533,994. Thermosetting Adhesive Composition and Laminate. Dec. 12, 1950. Hot pressed plywood glued with an adhesive comprising a methoxymethoxyethyl carbamate-modified melamine-formaldehyde condensation product. Group 24—32.

Pat. 2,542,288. Laminate Using Polyamide Adhesive. Feb. 20, 1951. Plywood and similar laminates of cellulose sheet material bonded with an adhesive comprised of an alcohol soluble linear N-alkoxymethyl polyamide, a finely divided insoluble cellulosic extender such as nut shell flour, and an acid reacting catalyst. Group 24—32.

Pat. 2,542,747. Olefin Reactions. Feb. 20, 1951. Preparation of oxygen-containing saturated organic compounds by heating a mixture of an olefin, cobalt carbonyl, and H_2 at 25°–88° C. under subatmospheric pressure in absence of a substantial quantity of added CO and separating the product from the resulting mixture. Same process to prepare nitrogen-containing saturated compounds, temperature 25°–250° C. Examples of compounds prepared: propionaldehyde, isoamyl alcohol, isoamyl amines. Group 28—86.

Pat. 2,542,766. Production of Amides. Feb. 20, 1951. Synthesis of organic amides by reacting an olefin hydrocarbon, CO, a compound of the class consisting of NH_3, primary amines, secondary amines, and a catalytic quantity of an organic compound of cobalt which is soluble in at least one of the reactants, heating the mixture to 150°–350° C. at a pressure exceeding 50 atm., separating the amide and recovering the cobalt catalyst for recycling. Group 28—86.

Pat. 2,542,767. Organic Ester Synthesis. Feb. 20, 1951. Production of esters of organic carboxylic acids—heating a non-aromatic hydrocarbon with an olefinic linkage with CO and a primary alcohol at 150°–500° C. and at least 50 atm. in the presence of a catalyst from the class consisting of metallic cobalt, cobalt oxide, cobalt metal carbonyls, and cobalt salts of organic carboxylic acids, and separating the ester from the products. Group 28—89.

Pat. 2,543,994. Vat Dyeing of Acrylonitrile Polymers. Mar. 6, 1951. Structures of acrylonitrile polymers are dyed in an aqueous dyebath containing an aromatic monoamine and an alkaline solution of a reduced indigo or thioindigo vat dye. Group 28—81—89.

Pat. 2,544,365. Acylated Phenol-Formaldehyde Resins Containing Ketene Polymers of Higher Fatty Acids. Mar. 6, 1951. Coating composition vehicles prepared by reacting phenol-formaldehyde resin, fatty oil acid, and acetic anhydride in a particular manner. Group 28—11.

Pat. 2,548,803. Catalytic Process. Apr. 10, 1951. Alkylation of cyclic unsaturated hydrocarbons having a hydrogen-bearing saturated carbon atom attached to an unsaturated ring carbon, e. g., toluene, by reacting them with monoolefinic hydrocarbons in the presence of an organo-alkali metal compound. Group 28—86.

Pat. 2,548,880. Process for Producing Cyclonite-Containing Explosive. Apr. 17, 1951. A method of preparing a gelatinous explosive free from a normally liquid high explosive. Group 28—84.

Pat. 2,549,220. Coated Wrapping Tissue and Process of Making Same. Apr. 17, 1951. A wrapping tissue coated with a vinylidene chloride copolymer and an anchoring medium comprising a compound in which a trivalent nuclear atom of a metal is coordinated with a carboxylic acido group. Groups 26—24; 28—83.

Pat. 2,549,261. Calcium Sulfate-Extended Titanium Dioxide Pigments. Apr. 17, 1951. Production of hydrophilic composite anhydrite-rutile TiO_2 pigments by heating gypsum to 600–825° C. until converaion to porous anhydrite occurs, blending the anhydrite with rutile TiO_2, and then subjecting the mixture to a dual grinding treatment. Group 28—12.

Pat. 2,549,416. Preparation of Alcohols. Apr. 17, 1951. A process for preparing 3,5,5-trimethylhexanol-1 by a vapor phase reaction between 3,5,5-trimethylhexanal and hydrogen over a copper-zinc oxide catalyst. Group 28—61—89

Pat. 2,549,453. Anhydride Synthesis. Apr. 17, 1951. A process for the synthesis of organic carboxylic acid anhydrides by a reaction between carbon monoxide, water and an olefin in the presence of a nickel carbonyl catalyst. Group 28—86.

Pat. 2,549,455. Production of Esters From Olefinic Compounds, Carbon Monoxide, Hydrogen and Organic Carboxylic Acids. Apr. 17, 1951. A process for the synthesis of esters by reacting carbon monoxide, hydrogen, an olefin and a saturated organic carboxylic acid in the presence of a salt (e. g., cobalt) of an organic carboxylic acid. Group 28—86.

Pat. 2,549,457. Preparation of Alpha-Methylacrolein. Apr. 17, 1951. A process for preparing alpha-methylacrolein by heating a mixture of propionaldehyde, paraformaldehyde, water and boron trifluoride, and distilling off the alpha-methylacrolein-water azeotrope. Group 28—89.

Pat. 2,549,945. Process for the Production of a Lead Arsenate in the Form of Flat, Plate-Like Crystals. Apr. 24, 1951. Into an aqueous solution of an acid that reacts with litharge to form a soluble lead salt, arsenic acid and litharge are fed at such rates relative to each other as to keep the reaction medium between pH_x and $pH(x+1)$, pH_x being the pH of the starting aqueous solution. Group 28—33.

Pat. 2,550,808. Coagulating Bath Circulating Eductor. May 1, 1951. The use of a low pressure jet together with a suitable mixing tube to induce flow of coagulating bath against a hydrostatic head. Group 28—83.

Pat. 2,551,003. Production of Azo Compounds. May 1, 1951. Azo compounds are prepared by reacting a nitrobenzene with alkali and alcohol at superatmospheric pressure and at temperatures above 100° C. Group 28—12.

Pat. 2,551,134. Process of Color Developing With 2-Thiohydantoin Derivatives. May 1, 1951. The process of developing colloid silver halide emulsion layers with primary aromatic amino developing agents in the presence of compounds derived from 2-thiohydantoin. Group 28—89.

Pat. 2,551,281. Automatic Gas Analyzer. May 1, 1951. A recording instrument for gas analysis comprising a travelling tape incorporated with materials which are color-sensitive to the gases being analyzed, a photo-electric cell measuring the change in color intensity of the tape. Group 28—86.

Pat. 2,554,482. Preparation of Cyanoalkenes. May 29, 1951. A process for preparing a cyanoalkene, e. g., acrylonitrile or methacrylonitrile by the vapor phase reaction of a cyanoalkane, e. g., propionitrile or isobutyronitrile, with oxygen in the presence of iodine. Group 28—31.

Pat. 2,554,484. Preparation of Cyanoalkenes. May 29, 1951. A process for preparing a cyanoalkene, e. g., acrylonitrile or methacrylonitrile by the vapor phase reaction of a cyanoalkane, e. g., propionitrile or isobutyronitrile, with oxygen. The above reaction is also claimed in the presence of a chromium oxide, molybdenum oxide-on-aluminum oxide catalyst. Group 28—89.

Pat. 2,554,670. Yarn-Advancing Reel. May 29, 1951. A yarn-advancing reel having two sets of yarn-contacting bars; one fixed; one radically and axially movable. Group 35—52.

Pat. 2,555,309. Flaking Machine and Method. June 5, 1951. A device and method for producing solids in subdivided form directly upon the solidification thereof from the fluid form. Group 35—59.

Pat. 2,555,918. Di-esters of Aryl-Substituted Glycols and Their Preparation. June 5, 1951. Diesters of glycols having a plurality of arylethylene units, and preparation by reacting formaldehyde with a monoarylethylene in presence of a mono- or dicarboxylic acid. Group 28—61—89.

Pat. 2,555,950. Preparation of 2-Methoxy-1-Alkanols and 2-Methoxy-1-Alkanals. June 5, 1951. Preparation of 2-methoxy alcohols and aldehydes by reacting 1,1-dimethoxyethane or 1,1-dimethoxypropane with CO and H_2 in presence of cobalt catalysts. Group 28—86.

Pat. 2,556,241. Silk Screen Stencil Ink. June 12, 1951. A stencil ink comprising a vinyl resin, plasticizer, wax, pigment and a mixture of volatile solvents for the said resin and wax. Group 28—83.

Pat. 2,556,465. Explosive Rivet. June 12, 1951. A rivet containing an explosive charge adapted to expand the rivet both within the hole and outside the hole. Group 33—12—91.

Pat. 2,556,729. Metal-Free Phthalocyanine of Novel Color Characteristics. June 12, 1951. Metal-free phthalocyanine in the form of beta crystals at least 90% which are not greater than 0.2 micron in size. Group 28—89.

Pat. 2,556,885. Coated Products. June 12, 1951. Fabric base having a coating of vinyl chloride polymer, and an anchor coating obtained from an aqueous composition of a butadiene-acrylonitrile copolymer and a water-soluble phenol-formaldehyde thermosetting resin. Group 28—83.

Pat. 2,556,953. Barium Perborate. June 12, 1951. Dispersion of barium perborate approximately

$$Ba(BO_2)_2.1.5H_2O_2.H_2O$$

in tricresyl phosphate, and production by reacting at 40–60° C., 1 mole sodium peroxide, 1.5–2 moles hydrogen peroxide, 1–1.1 mole borax, 1.8–2.2 moles barium salt and 100–400 moles water. Group 28—89.

Pat. 2,557,299. Urea-Formaldehyde Paper-Treating Compositions. June 19, 1951. A process for the manufacture of wet-strength paper, the step of adding to the paper material 0.5 per cent to 25 per cent of a urea-formaldehyde condensation product modified with diglycolic acid or alkali metal salts of diglycolic acid. Composition claims to an alkali metal diglycolic-modified urea-formaldehyde condensation product. Group 28—89.

Pat. 2,558,245. Liquid Sulfur Colors Comprising Hydroxy-Aliphatic Compounds. June 26, 1951. Liquid sulfur dye composition consisting of 20 to 60 parts of sulfur black dye, 7 to 15 parts of Na_2S, 30 to 70 parts of water, and 3 to 15 parts of water-miscible aliphatic alcohol containing one to four carbon atoms. Group 28—89.

Pat. 2,558,285. Preparation of Para-Tertiary Amino Aromatic Aldehydes. June 26, 1951. Para-tertiary amino aldehydes are derived from e. g. triphenylamine, methyl diphenylamine, etc. by reaction with dimethyl formamide in the presence of phosphorous oxy-chloride. Group 28—81—89.

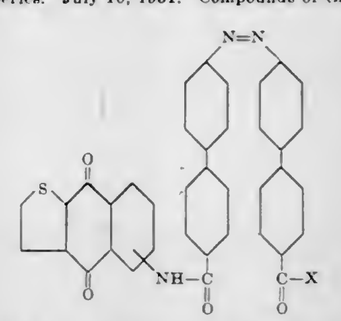
Pat. 2,558,392. Moisture Indicator for Webs. June 26, 1951. An impulse timer particularly valuable as an adjunct to the yarn-moisture measuring device claimed in U. S. Pat. 2,508,045. Group 22—13.

Pat. 2,558,634. Paper Impregnating or Saturating Composition. June 26, 1951. Impregnating or saturating compositions for fibrous sheets comprising rubber (natural or synthetic) latex modified with lignin. Group 28—83.

Pat. 2,559,247. Purification of Chloral. July 3, 1951. Chloral is obtained from chlorination products of ethanol by adding water to the chlorination products and then distilling to separate an alcohol-water azeotrope therefrom. Group 28—83.

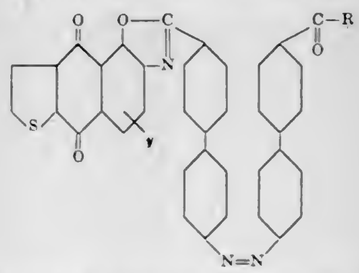
Pat. 2,559,269. Method for Producing Indigo Vat Dye Paste. July 3, 1951. Production of high-density, air-free indigo pastes by passing steam through a filter cake of indigo until the occluded air is removed, and adding water to the filter cake. Group 28—89—91.

Pat. 2,559,670. Azo Compounds of the Thiophanthraquinone Series. July 10, 1951. Compounds of the general formula



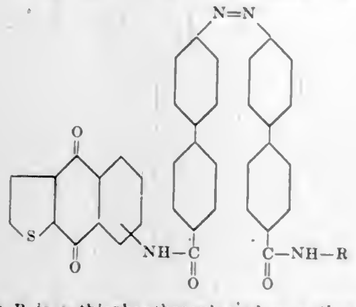
in which X is —OH, —NH_2, —Cl, or —O—alkyl. Group 28—12—89.

Pat. 2,559,671. Azo Compounds of the Thiophanthraquinone Series. July 10, 1951. Compounds of the formula



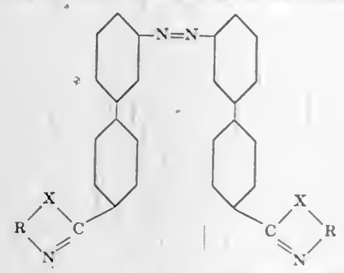
in which y is H, Cl, or Br, and R is —OH, —Cl, —O-alkyl, —NH_2, —NH-alkyl, or —NH-aryl. The isomeric compound in which the heterocyclic S atom is in the 3 position is also claimed. Group 28—12—89.

Pat. 2,559,672. Azo Compounds of the Thiophanthraquinone Series. July 10, 1951. Compounds of the formula



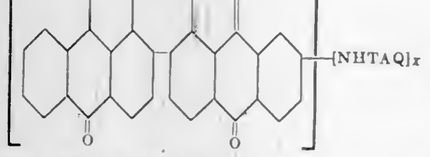
in which R is a thiophanthraquinonyl or anthraquinonyl radical, which radical may be substituted with chloro, bromo, methoxy, benzamido, or thenoylamino groups. Group 28—12—89.

Pat. 2,559,673. Azo Dyes of the Thiophanthraquinone Series. July 10, 1951. Compounds of the formula



in which X is O or S and R stands for thiophanthraquinone or anthraquinone, which may be halogen-substituted, at least one R being thiophanthraquinone. Group 28—12—89.

Pat. 2,559,676. Anthraquinone Vat Dyestuffs. July 10, 1951. Compounds of the formula



in which TAQ is the thiophanthraquinone nucleus attached to the imino group through the 5 or 8 position and X is 1 or 2. Group 28—12—89.

Pat. 2,559,677. Amino-Halogen-Thiophanthraquinones. July 10, 1951. Amino-halogen-thiophanthraquinone compounds in which the amino and the halogen (chlorine or bromine) is attached to the benzene nucleus of the thiophanthraquinone and at least one halogen is ortho or para to the amino group. Group 28—12—89.

Pat. 2,560,156. Method of Separating Carboxylic Acids Resulting From the Liquid Phase Oxidation of Oleic Acid. July 10, 1951. Group 28—89.

Pat. 2,560,341. Hot Tube Drying. July 10, 1951. A heated hair pin shaped yarn drying tube having string up means at one end and vapor removal means at the other end. Group 28—86.

Pat. 2,561,190. Preparation of 2-Methyl-5-Benzoyl Benzoxazole and Cyclammonium Salts Thereof. July 17, 1951. The compounds taken from the group consisting of 2-methyl-5-benzoyl benzoxazole and its quaternary salts and the process of preparing them. Group 28—89—91.

Pat. 2,563,469. Light Sensitive Elements for Color Photography. Aug. 7, 1951. Photographic elements for color photography comprise films consisting of a support bearing a pigmented silver halide emulsion layer and having superimposed thereon an anti-abrasion layer of a water soluble orthosulfobenzaldehyde acetal of polyvinyl alcohol. Group 39—12.

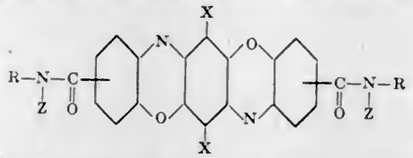
Pat. 2,564,078. Fractionating Column. Aug. 14, 1951. Fractionating column comprising sieve-plates having the hole area varied from a minimum at the bottom to a maximum at the top. Groups 28—89; 35—59.

Pat. 2,564,104. Process for Reacting Olefinic Compounds With Carbon Monoxide and Hydrogen. Aug. 14, 1951. A process for preparing oxygen-containing compounds by reacting an olefinic compound with carbon monoxide and hydrogen in the presence of an inert reaction medium having dissolved therein a catalyst consisting of a salt of cobalt, nickel or copper. Claims for the preparation of aldehydes such as propionaldehyde and alpha-methyl-beta-ethyl-acrolein. Group 28—86.

Pat. 2,564,124. Bread Staling. Aug. 14, 1951. A method for decreasing the staling of baked products from doughs which comprises incorporating into the dough 0.5 per cent to 2 per cent of nonaethylene-glycol monostearate. Group 20—51.

Pat. 2,564,130. One-Step Butyl Alcohol Process. Aug. 14, 1951. A process for preparing butanols by reacting a mixture of propylene, butyl formate, water, carbon monoxide and hydrogen in the presence of a cobalt-containing catalyst (e. g. cobalt acetate). Group 28—89.

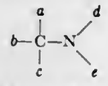
Pat. 2,564,380. Sulfur Colors of the Dioxazine Series. Aug. 14, 1951. Reacting with a complex of the formula $AlCl_3.2S_2Cl_2$ on a triphendioxazine of the formula



in which X is hydrogen, halogen, or methyl, Z is hydrogen or methyl, and R is an aromatic hydrocarbon radical. The dyes so prepared are also claimed. Group 28—81—89.

Pat. 2,564,381. Sulfur Colors of the Dioxazine Series and Method of Preparing the Same. Aug. 14, 1951. Reacting in the presence of a tertiary nitrogenous base a bis(chlorocarbonyl)triphendioxazine with a thiocyanoaniline. The products are also claimed. Group 28—81—89.

Pat. 2,565,189. Electropolishing Steel. Aug. 21, 1951. Electropolishing steel and other metal articles by anodically treating in an electrolyte consisting of 0.01 to 30% by weight of water and the hydrogen fluoride salt of cyclohexylamine or a heterocyclic organic base or amine having the type formula



where *a*, *b*, *c*, *d* and *e* each represent a radical selected from the group, hydrogen alkyl, hydroxyalkyl, aminoalkyl and phenyl. Group 28—34.

Pat. 2,566,149. Textile Size Containing Polymethacrylic Acid, a Polymethacrylic Acid Salt, and a Wetting Agent. Aug. 28, 1951. A textile size comprising a polymethacrylic acid powder soluble in water to the extent of at least 10 per cent at 100° C., containing from 0.3 per cent to 12 per cent polymethacrylic acid neutralized with an alkali metal base and an ammonium base or an organic base, and containing from 0.01 per cent to 5 per cent of a wetting agent such as sulfonated lauryl alcohol. Group 28—83.

Pat. 2,567,135. Vulcanization of Butadiene Copolymer Rubbers. Sept. 4, 1951. Incorporating in an unvulcanized butadiene-styrene copolymer from 0.25 to 20 parts, per 100 parts of copolymer, of o-chlorobenzotrichloride and heating to effect vulcanization. Product so obtained is also claimed. Group 28—83.

Pat. 2,568,844. Process and Apparatus for the Electrolytic Production of Fluorine. Sept. 25, 1951. An electrolytic fluorine cell and process for electrolytic production of fluorine using an electrolyte having a constitution in the range KF : 1.8HF to KF : 3HF. Group 28—81—89.

Pat. 2,568,847. Method of Coating Wire-Wound Electrical Resistors. Sept. 25, 1951. The process of producing vitreous enameled resistors which comprises applying three or more coats of enamel in which the first coat is fired to a smooth, glossy coating, the second and any additional coats, except the last coat, are fired to a temperature at which the enamel sinters but remains porous, and the last coat is applied and fired to form all the enamel into a smooth, even, glossy coating. Group 28—11.

Pat. 2,568,864. Flash Dry Wood Filler. Sept. 25, 1951. A wood filler which dries sufficiently to accept surface coats within about one-half hour, comprising from 16 to 75 parts of pigment and one part of binder selected from vegetable drying oils and drying oil modified alkyd resins. Group 28—83.

Pat. 2,569,511. Blasting Device. Oct. 2, 1951. A blasting timer containing relay-operated short-circuiting and firing circuit closing elements for firing explosive charges at time intervals of from 0.005 to 0.040 seconds. Group 36—41.

Pat. 2,569,549. Imidohalides and Process of Preparing Them and Their Hydrolysis Products. Oct. 2, 1951. Preparation of imidohalides of N-acy-beta-haloamines by chlorinating or brominating an ethylenically unsaturated hydrocarbon in contact with a nitrile; the imidochlorides obtained; and their hydrolysis to the corresponding amides and imides. Group 28—86.

Pat. 2,569,588. Flushing Nozzle. Oct. 2, 1951. Nozzle arrangement for cleaning and flushing barrels, tanks and the like. Group 33—59—61.

Pat. 2,570,157. Purification of Ketone-Containing Liquid. Oct. 2, 1951. A method for the removal of diacetyl from organic solvents by the reduction of the diacetyl in the presence of an organic solvent or mixture of organic solvents by treatment with nascent hydrogen and separating by distillation the organic solvents from the reduction products. Group 28—34.

Pat. 2,570,478. Vinylidene Chloride Interpolymer As a Coating for Regenerated Cellulose Film. Oct. 9, 1951. A regenerated cellulose film having a self anchored coating composition comprising a copolymer of itaconic nitrile, vinyl chloride, methyl vinyl ketone, etc. Group 28—83.

Pat. 2,570,760. Preparation of N-Cyanomethyl Morpholine. Oct. 9, 1951. A process for preparing N-cyanomethyl morpholine by adding formaldehyde cyanhydrin to morpholine in the presence of water and in the absence of a catalyst at 20° to 65° C. and thereafter heating the resulting mixture to 75° to 100° C. until the reaction is complete. Group 28—89.

Pat. 2,570,793. Preparation of Acyl Fluorides. Oct. 9, 1951. A process for the synthesis of acyl fluorides (e. g. beta-chloro-isobutyryl fluoride) by reacting a secondary organic halide containing fluorine or bromine with carbon monoxide and hydrogen fluoride in the presence of a boron trifluoride catalyst at a temperature from −5° to +40° C. and a pressure above 10 atmospheres. Group 28—34.

Pat. 2,570,856. Process for Obtaining Pigmented Films. Oct. 9, 1951. Film comprising film-forming binder and metal particles of pigment size, at least 50% of which are in flake form and at least 10% of which are ferromagnetic, the flake particles being oriented so that major axes thereof are parallel to each other and at an angle of 20° to 75° to the plane of the film. Group 28—12.

Pat. 2,570,886. 7-Chloro-6-Ethoxy-3-Heptenoic Acid Nitrile. Oct. 9, 1951. A compound of the formula $ClCH_2CH_2(OC_2H_5)CH_2CH=CHCH_2CN$ having a boiling point of 123° C. at a pressure of one mm. of mercury. Group 28—89.

Pat. 2,570,887. Dichloro-Dialkoxy Dodecadienes. Oct. 9, 1951. Composition: 1,12-dichloro-2,11-dialkoxy-4,8-dodecadiene. Group 28—83.

Pat. 2,572,019. Catalytic Process for Alkylating Aromatic Compounds Using a Metal Molybdite Catalyst. Oct. 23, 1951. Catalytic alkylation of aromatic compounds by reaction with olefins in the presence of selected metal molybdite catalysts. Group 28—89.

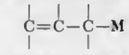
Pat. 2,577,110. Explosive Composition Containing Vermiculite. Dec. 4, 1951. Density control of ammonium nitrate explosives is obtained by the inclusion of expanded vermiculite in the composition. Group 28—83.

Pat. 2,577,571. Apparatus for Yarn Twisting. Dec. 4, 1951. A centrifugal locking cap for bobbins on twister spindles. Group 35—52.

Pat. 2,577,593. Stabilizing Cellulose Yarns. Dec. 4, 1951. The use of 1-phenylbiguanide in regenerated cellulose yarn to improve its heat stability. Group 28—83.

Pat. 2,578,514. Film Registration Device. Dec. 11, 1951. A cine film registration device for stripping film processing comprising a wheel having two rows of the retractable registration pins around the periphery thereof and associated apparatus. Group 39—12.

Pat. 2,579,257. Alkali Metal Dispersions. Dec. 18, 1951. Alkali metal dispersion products; using as dispersing agents, addition compounds resulting from the reaction between an alkali metal alkoxide of formula MOR (M=alkali metal and R=an aliphatic, cycloaliphatic or aromatic radical) and a compound having a



structure (M=alkali metal), e. g., alkali metal cleavage products of 1,10-dimethoxy-3,7-decadiene or diallyl ether, their preparation and diesel fuels containing dispersed alkali metal and above dispersing agents. Group 28—89.

Pat. 2,579,563. Fabric Conveying Apparatus. Dec. 25, 1951. Apparatus for forwarding and plaiting fabric into a J-box for storage during bleaching operation comprising the combination of a pair of slotted fabric forwarding reels having the slats of opposite reels intermeshing with a pair of cooperating oscillating plaiting members with auxiliary means for rotating the reels, for traversing the fabric back and forth between the reels and means for oscillating the plaiting members in unison with each other. Group 35—52.

Pat. 2,580,070. Synthesis of Acyl Halides. Dec. 25, 1951. A process for the synthesis of acyl halides (e. g. trimethylacetyl chloride) by interacting an alkyl halide (e. g. tertiary butyl chloride) with carbon monoxide in the presence of boron trifluoride. Group 28—83.

Pat. 2,580,550. Bis(p-Chlorophenyl)Mercaptole Acetone and Its Miticidal Activity. Jan. 1, 1952. The compound bis(p-chlorophenyl)mercaptole acetone, and miticidal composition containing it in admixture with a dispersing agent. Group 28—33.

Pat. 2,580,931. Production of Sebacic Acid. Jan. 1, 1952. Subjecting saponified solid mixture of an alkali and a ricinoleate-containing compound to pyrolysis through contact with steam at atmospheric pressure. Group 28—89.

Pat. 2,581,832. Heterogeneous, Basic Hydrolysis of Carboxylic Acid Esters of Polyvinyl Alcohol With Quaternary Ammonium Bases. Jan. 8, 1952. A process for heterogeneously hydrolyzing a water-insoluble polyvinyl ester which comprises forming a mixture of water and a quaternary ammonium base; adding to the resultant hydrolyzing medium said water-insoluble polyvinyl ester and heating. Group 28—89.

Pat. 2,583,991. Heterogeneous, Acidic Hydrolysis of Polymeric Esters With Alkyl Phosphoric Acid Esters. Jan. 29, 1952. A process comprising the heterogeneous hydrolysis of water-insoluble polymeric carboxylic acid esters in aqueous media containing a strong orthophosphoric acid ester appreciably soluble in the said polymeric esters in the presence of water. Group 28—83.

Pat. 2,584,589. Preparation of Diacyl 1,3-Amino Alcohols and Their Hydrolyzed Products, 1,3-Amino Alcohols. Feb. 5, 1952. Preparation of 1,3-amino alcohols and their diacyl derivatives by reacting a C_3 to C_5 monoethylenic hydrocarbon with formaldehyde and a C_2 to C_5 alkyl mononitrile in the presence of a C_1 to C_5 alkyl monocarboxylic acid and an oxygen-containing strong acid catalyst. Group 35—52.

Pat. 2,585,424. Method of Transferring Yarn and Apparatus Therefor. Feb. 12, 1952. Method and apparatus for transferring yarn by means of an endless belt which discharges the yarn while travelling in a vertically downward direction as it passes over a small diameter roller which rapidly changes the direction of the belt. Group 35—52.

Pat. 2,585,902. Inhibition of Oxidation in Tin Solutions. Feb. 19, 1952. In electroplating tin from a stannous chloride solution having a pH 2–5 and containing 2 to 12 moles of alkali metal fluoride per mole of stannous chloride, the improvement of adding thereto 0.1 to 5 grams per liter of thiourea. Group 37—42.

Pat. 2,586,341. Process for Producing Trans-3-Pentenoic Acid. Feb. 19, 1952. A process for preparing trans-3-pentenoic acid which comprises heating butadiene with carbon monoxide and water in the presence of dimethylformamide or dimethylacetamide and a cobalt carbonyl catalyst. Group 28—86.

Pat. 2,586,438. Sterol Esters of Nicotinic Acid. Feb. 19, 1952. A sterol ester of nicotinic acid. Method of transforming nicotinic acid into a water-insoluble form which comprises converting it into the ester of a sterol. Group 28—31.

Pat. 2,586,541. Detonating Assembly. Feb. 19, 1952. Nitramon assembly wherein lengths of enclosed detonating fuse are used to insure detonation of the entire column. Group 28—92.

Pat. 2,587,861. Preparation of Benzidine Sulfate. Mar. 4, 1952. Preparation of benzidine sulfate by treating a solution of one part benzidine hydrochloride in 9 to 15 parts of water at 60–80° C. with sufficient salt to precipitate the benzidine hydrochloride, and adding 2 to 2.5 parts of 30–40% sulfuric acid which contains 0.1–0.5 parts of hydrochloric acid per part of sulfuric acid. Group 28—89.

Pat. 2,587,904. Esterification of Monohydric Ether Alcohols. Mar. 4, 1952. Esterification of a mixture of esterifiable reactants containing reducible color forming bodies in the presence of catalyst consisting of a mixture of ferrous sulfate and an acid of phosphorus. Group 28—89.

Pat. 2,587,905. Process for Printing Textile Fabrics With Vat Dyes. Mar. 4, 1952. Printing a textile with a vat color in the form of an aqueous paste containing 1.5–6% of sodium alginate, sodium carboxymethyl-cellulose, or locust bean powder, drying, over-printing with a thickened aqueous solution containing 2–10% caustic alkali and 2–10% sodium hydrosulfite wherein the ratio of hydrosulfite to caustic is between 0.5 to 3.0, and passing fabric within 20 seconds into an air-free steam chamber for 5–50 seconds. Group 22—51—52—53.

Pat. 2,590,196. Retaining Device. Mar. 25, 1952. An internal support for flexible tubing consisting of a wire helix and means for holding the helix in a collapsible condition comprising hooks made of the end of the wire helix and reposing within the helix. Group 34—95.

Pat. 2,590,518. Kinetic Stop Motion Device. Mar. 25, 1952. Apparatus for detecting failure in a filament kept running by a feeding mechanism which comprises an electrical switch, a pivoted member rotatable by said filament through frictional contact; and means for rotating said member in the reverse direction upon filament failure to alter said switch, whereby stoppage of the feeding mechanism is effected. Group 36—19.

SCHEDULE XXV (2 patents)

Licenses will be granted under these two patents under the conditions, to the extent, and for the term in respect of which E. I. du Pont de Nemours and Company can grant such licenses.

Pat. 2,229,422. Spinning of Highly Viscous Masses. Jan. 21, 1941. Screw feed extrusion hopper. Group 35—52.

[1] 2,268,350. Method of Preparing Luminescent Magnesium Tungstate. Dec. 30, 1941. Luminescent magnesium tungstate is prepared from solutions of magnesium chloride and sodium tungstate by mixing and then heating to above 60° C. to crystallize out magnesium tungstate as a granular mass. Group 28—89.

[1] This patent was previously registered as available for unrestricted licensing on reasonable terms, and listed in Schedule XXI in the OFFICIAL GAZETTE, Oct. 30, 1951. It is hereby removed from that category.

SCHEDULE XXVI (2 patents)

Licenses will be granted under these two patents to (1) make adhesive cement compositions containing a polyisocyanate and an elastomeric material, (2) use such compositions in the bonding together of two or more surfaces to make composite structures other than pressure-sensitive adhesive tapes and sheets, and (3) use or sell such structures, at a specified royalty per pound on all polyisocyanates used in practicing the licensed inventions under such patents.

Pat. 2,356,005. Method of Adhering Gelatine Coatings to Metal. Aug. 15, 1944. A printer's roll with a gelled gelatine-glycerine surface bonded to a metal core by a Buna N-organic diisocyanate mixture. Group 28—83.

Pat. 2,388,656. Paint Compositions. Nov. 6, 1945. Coating composition comprising a condensation derivative of rubber, a drying oil and an organic diisocyanate. Group 28—11.

Correction

Pat. 2,547,424. Ratchet Spanner Wrench. Listed by General Electric Company in OFFICIAL GAZETTE, June 3, 1952, Reg. No. 47,832, should read Pat. 2,574,424.

TRADE-MARKS

[VOL. 663. No. 2]

OFFICIAL GAZETTE, OCTOBER 14, 1952

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 604,257. Cutler-Hammer, Inc., Milwaukee, Wis. Filed Sept. 30, 1950.

THERMOPLAX

Applicant claims ownership of Registration No. 97,127.

For Plastic Molding Compositions in Powdered and Granular Form, Basically Comprising a Chemically Inert Filler and a Binder, for Use in the Molding of Articles Having Good Electrical Insulating and/or Heat Resisting Properties.

Claims use since Dec. 11, 1913.

Ser. No. 622,069. Courtaulds, Limited, London, England. Filed Dec. 4, 1951.

RAYOLANDA

Applicant claims ownership of United States Registration No. 343,048.

For Raw Fibrous Textile Materials—Namely, Artificial Staple Fibres Made From Cellulose.

Claims use since 1938 in Great Britain; and since 1949 in commerce between the United States and the United Kingdom of Great Britain and Northern Ireland.

Ser. No. 624,931. The Cordo Chemical Corporation, Norwalk, Conn. Filed Feb. 14, 1952.

CORDOPREG

For Polyester Type, Impregnated Glass Fiber for Low Pressure and Temperature Molding.

Claims use since May 1951.

Ser. No. 625,436. The Presstite Engineering Company, St. Louis, Mo. Filed Feb. 23, 1952.

SKYLUX

For Plastic, Containing Glass Fiber Reenforcements, in Sheet Form.

Claims use since Feb. 6, 1952.

Ser. No. 625,800. Hartz Mountain Products, New York, N. Y. Filed Mar. 1, 1952.

MASTER CANARY

The word "Canary" is disclaimed. Applicant claims ownership of Registrations Nos. 315,205 and 348,673.

For Birds.

Claims use since Feb. 9, 1933.

CLASS 2

RECEPTACLES

Ser. No. 618,174. Marathon Corporation, Rothschild, Wis. Filed Aug. 28, 1951.

V-LOCK

The word "Lock" is disclaimed.

For Collapsible Paper Cartons.

Claims use since July 11, 1951.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 628,720. Schell Leather Goods Co., Inc., Cincinnati, Ohio. Filed Apr. 25, 1952.

Tripak

Applicant claims ownership of Registration No. 432,792.

For Luggage and Carrying Cases—Namely, Traveling Bags, Handbags, Traveling Cases, Overnight Cases, Weekend Cases, Duffle Bags, and Gladstone Bags.

Claims use since on or about Jan. 1, 1938.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 600,017. The Bullseye Corporation, Woodbridge, Conn. Filed June 30, 1950.

Kelvex

For Liquid Preparations for Combined Cleaning and Polishing of Automobiles and Furniture.

Claims use since on or about Mar. 1, 1950.

Ser. No. 608,896. Standard Industrial Products, Inc., Evansville, Ind. Filed Jan. 17, 1951.

TRIPLAC

For Polish for Furniture and for Varnished and Painted Surfaces.
Claims use since Jan. 10, 1948.

Ser. No. 609,366. Gulco Chemical Company, Inc., Gulfport, Miss. Filed Jan. 29, 1951.

GULCO

Applicant claims ownership of Registration No. 400,053.
For Preparation for Polishing and Cleaning Automobiles, Furniture, Painted, Varnished and Enameled Surfaces, Walls, Floors, Window Shades and Venetian Blinds.
Claims use since Jan. 2, 1951, as shown; and since July 1941, as to the word "Gulco."

Ser. No. 630,158. The Singer Manufacturing Company, Elizabeth, N. J. Filed May 23, 1952. (Sec. 2f.)

SINGER

Applicant claims ownership of Registrations Nos. 49,599, 49,600, and others.
For Emery Cord.
Claims use since 1925.

CLASS 5

ADHESIVES

Ser. No. 613,758. Chase Blum, doing business as Chase Industrial Refrigerator Equipment & Engineering Co., Cincinnati, Ohio. Filed May 11, 1951. (Sec. 2f.)

CHASE SEAL-X

For Liquid Rubber Cement for Attaching Rubber Gasketing and Weather Strips.
Claims use since on or about Mar. 11, 1941.

Ser. No. 621,057. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Nov. 9, 1951. (Sec. 2f.)

DU PONT

Applicant claims ownership of Registrations Nos. 161,936 and 511,942.
For Adhesives Based on Nitrocellulose, on Natural or Synthetic Rubber, or on Synthetic Resins.
Claims use since Feb. 28, 1941.

Ser. No. 624,163. Matthew Smith, trading as Flamingo, Kearny, N. J. Filed Jan. 26, 1952.

FLAMINGO

For Plastic Patch Repair Kits Comprising Plastic Patches and Cement for Mending Plastic Articles.
Claims use since Jan. 17, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 544,871. Irwin-Willert Company, East St. Louis, Ill., assignor to Irwin-Willert Company, East St. Louis, Ill., a corporation of Illinois. Filed Dec. 19, 1947.

Mothmaster

Applicant claims ownership of Registrations Nos. 246,746, 503,263, and 530,790.
For Container for and Volatile Mothproofing Chemical in Solid Form Sold Together in Trade as a Unit.
Claims use since Oct. 15, 1947.

Ser. No. 610,014. The Gerson-Stewart Corporation Company, Cleveland, Ohio. Filed Feb. 13, 1951.

HYKOTAR

For Disinfectant.
Claims use since January 1918.

Ser. No. 610,277. Kotake Company, Limited, Honolulu, Territory of Hawaii. Filed Feb. 19, 1951.

SENNENKO 線香

The Japanese word "Sennenko" is composed of the characters "Sen" meaning "Hermit," "Nen" meaning "Years" and "Ko" meaning "Smell," the three characters in combination meaning "Smell of a Thousand Years."
For Incense.
Claims use since Nov. 8, 1948.

Ser. No. 618,473. Max Van Pels, New York, N. Y. Filed Sept. 6, 1951.

MAXAPHENE

For Insecticides.
Claims use since July 15, 1951.

Ser. No. 619,026. Walter Lindenthal, doing business as The Chair-Loc Company, Lakehurst, N. J. Filed Sept. 20, 1951.

Rugadub

The term "Rug" is disclaimed.
For Liquid Brush-On Dye.
Claims use since May 1950.

Ser. No. 619,073. Chemical Research Products, Inc., Seattle, Wash. Filed Sept. 21, 1951.

Sea-Cal

For Activators and Conditioners for Septic Tanks and Sewage Disposal Plants.
Claims use since on or about August 1951.

Ser. No. 626,356. Vineland Laboratories, Inc., Landis Township, Cumberland County, N. J. Filed Mar. 12, 1952.

WARFET

For Rodenticides.
Claims use since Nov. 2, 1951.

Ser. No. 626,541. Seeman Brothers, Inc., New York, N. Y. Filed Mar. 15, 1952.

CF

For Solidified Air Freshening Deodorant.
Claims use since Jan. 22, 1952.

Ser. No. 626,813. Monsanto Chemical Company, St. Louis, Mo. Filed Mar. 21, 1952.

RZ-50

For Compounds Used as Vulcanization Accelerators in the Curing of Rubber Articles.
Claims use since May 18, 1950.

Ser. No. 626,814. Monsanto Chemical Company, St. Louis, Mo. Filed Mar. 21, 1952.

SANTOVAR

Applicant claims ownership of Registration No. 347,356.
For Compounds for Use in Rubber Particularly for the Preservation of Unvulcanized Synthetic and Natural Rubber.
Claims use since Feb. 25, 1938.

Ser. No. 626,897. Monsanto Chemical Company, St. Louis, Mo. Filed Mar. 22, 1952.

AE-1

For High Molecular Weight Alcohol.
Claims use since Mar. 24, 1950.

Ser. No. 626,898. Monsanto Chemical Company, St. Louis, Mo. Filed Mar. 22, 1952.

FILCON

For Chemicals for Use in the Drilling and Treatment of Oil Wells.
Claims use since Mar. 7, 1952.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 626,314. Drexel Furniture Company, Drexel, N. C. Filed Mar. 12, 1952.

Perspective

For Ash Trays.
Claims use since Aug. 14, 1951.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 617,822. Harry P. Steininger, Detroit, Mich. Filed Aug. 17, 1951.

WATCH DOG

For Explosive Cartridges for Producing Fire Alarm Audible Signals.
Claims use since Jan. 10, 1951.

Ser. No. 626,774. American Cyanamid Company, New York, N. Y. Filed Mar. 21, 1952.

CYA-GEL-PAK

The words "Gel" and "Pak" are disclaimed.
For Explosive—Namely, Dynamite.
Claims use since Feb. 9, 1952.

CLASS 10

FERTILIZERS

Ser. No. 569,474. Phillips Petroleum Company, Bartlesville, Okla. Filed Nov. 26, 1948. (Sec. 2f as to "Phillips.")



The drawing is lined for mandarin orange and black.
Applicant claims ownership of Registrations Nos. 516,410, 516,425, 518,930, and 529,105.
For Nitrogenous Fertilizer.
Claims use since on or about Oct. 11, 1948; and since Nov. 19, 1927, as to "Phillips."

Ser. No. 624,044. Monsanto Chemical Company, St. Louis, Mo. Filed Jan. 24, 1952.

MONSANTO

For Soil Additives—Namely, Fertilizers and Soil Conditioning Agents.

Claims use since June 1935.

Ser. No. 624,046. Monsanto Chemical Company, St. Louis, Mo. Filed Jan. 24, 1952.

MONSANTO

For Soil Additives—Namely, Fertilizers and Soil Conditioning Agents.

Claims use since September 1947.

Ser. No. 624,317. Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Filed Jan. 30, 1952.

I-F-N

For Mixture Having Plant Nutritional Properties for Use in Sprays or as Dust Applications.

Claims use since 1938.

Ser. No. 625,179. Norman S. Wright and Company, Limited, Toronto, Ontario, Canada. Filed Feb. 18, 1952.

FERTABS

For Plant and Vegetable Fertilizer.

Claims use since February 1920; and since February 1920 in commerce among the several States and Canada.

Ser. No. 626,524. Morgan & Bush, Inc., Bakersfield, Calif. Filed Mar. 15, 1952.

PANAKA

For Mixture of Mineral for Enriching the Soil.

Claims use since Apr. 7, 1948.

Ser. No. 628,654. Spencer Chemical Company, Kansas City, Mo. Filed Apr. 24, 1952.



For Ammonium Nitrate Fertilizer.

Claims use since Apr. 2, 1952.

Ser. No. 630,642. White House Co., Harrison, N. J. Filed June 2, 1952.

LOAMIUM

For Fertilizing and Soil Conditioning Agent.

Claims use since May 22, 1952.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 540,856. The North American Mogul Products Company, Cleveland, Ohio, assignee of The North American Fibre Products Company. Filed Nov. 12, 1947. (Sec. 2f.)

Hardboard

The drawing is lined to indicate orange and black. Applicant claims ownership of Registration No. 146,025.

For Water, Damp, and Leakproof Coating of an Adhesive Cement Nature, and a Primer of an Adhesive Cement Nature.

Claims use since about Oct. 18, 1915.

Ser. No. 556,281. The Philip Carey Manufacturing Company, Cincinnati, Ohio. Filed May 5, 1948.

FIBEROCK

For Asphalt Impregnated Asbestos Felt for Building Construction Purposes.

Claims use since July 1, 1926.

Ser. No. 560,081. Air Seal Corporation, Flint, Mich. Filed June 24, 1948.

AIR SEAL

The word "Seal" is disclaimed.

For Building Insulation Materials Relating to Heat, Moisture, and Sound, Comprising Fiber Glass, Rock Wool, Corrugated Cardboard, and Pressed Fiber Sheeting; Asphalt and Aluminum Siding, Asphalt Shingles, Storm Doors and Storm Windows, Screens for Doors and Windows, and Ceramic, Metal, and Composition Tile for Floors, Walls, and Ceilings.

Claims use since Nov. 13, 1947.

Ser. No. 589,260. David E. Kennedy, Inc., Brooklyn, N. Y., now by change of name Kentile, Inc. Filed Dec. 13, 1949.

RUBBER TILE
by the makers of
KENTILE

The words "Tile," "Rubber Tile by the Makers of" and the representation of the goods are disclaimed. Applicant claims ownership of Registrations Nos. 344,245, 396,155, and others.

For Floor and Wall Tile Made of Rubber.

Claims use since Nov. 23, 1949.

Ser. No. 600,160. Wall-Lundberg & Company, Portland, Oreg. Filed June 30, 1950.

PLASTO-FIL

The letters "Fil" are disclaimed. Applicant claims ownership of Registration No. 408,359.

For Wood Base Cementitious Material for Patching, Filling and Repairing Wood.

Claims use since Aug. 22, 1945.

Ser. No. 601,023. Cimarron Lumber and Supply Company. Kansas City, Mo. Filed July 21, 1950.



HIPPO HIDE

The word "Hide" is disclaimed.

For Asphalt Composition Roofing and Siding in Rolled Sheet and Shingle Form.

Claims use since June 1, 1950.

Ser. No. 602,506. Great Lakes Carbon Corporation, New York, N. Y. Filed Aug. 21, 1950.

Strata-Crete

For Expanded and Vesiculated Volcanic Glass—Namely, Perlite, as an Additive to Cement for Oil Well Cementing.

Claims use since Feb. 3, 1950.

Ser. No. 605,660. Kogap Lumber Industries, Medford, Oreg. Filed Oct. 31, 1950.



The wording "Keep Oregon Green and Productive" is disclaimed.

For Construction Lumber and Finish Lumber.

Claims use since June 1947.

Ser. No. 606,774. Martin Hoffman Co., Livonia, Mich. Filed Nov. 22, 1950.



The drawing is lined for the colors green, orange, and gold.

For Building Fronts—Namely, Decorative Wall Panels; Panels Composed of Steel, Concrete, and Enamel; Molding, Enameled Metal Tile; Decorative Trim Panels for Structural Members.

Claims use since May 2, 1935.

Ser. No. 609,024. Boston Machine Works Company, Lynn, Mass. Filed Jan. 20, 1951. (Sec. 2f.)

INSTANT-GLO

For Cut and Slabbed Bricks and Stripping To Be Assembled to Form a Combustion Chamber.

Claims use since Dec. 20, 1945.

Ser. No. 612,589. Colorcrete Industries, Incorporated, Holland, Mich. Filed Apr. 13, 1951.

COLORCRETE

Applicant claims ownership of Registration No. 258,379.

For Cementitious Material To Be Mixed With Water and Applied to Walls and Other Building Components, and to Other Objects, as a Protective and Decorative Coating.

Claims use since Dec. 1, 1927.

Ser. No. 614,998. Sprayed Insulation, Inc., Newark, N. J. Filed June 9, 1951.

Spray Craft

The word "Spray" is disclaimed.

For Asbestos Insulation Materials in Bulk, Flake Form.

Claims use since May 22, 1951.

Ser. No. 617,365. Globe Roofing Products Co., Inc., Whiting, Ind. Filed Aug. 6, 1951.

Top-Flite

For Shingles and Siding.

Claims use since Mar. 21, 1947.

Ser. No. 618,168. International Granite & Marble Corp., New York, N. Y. Filed Aug. 28, 1951.

IGM

For Quarried Granite, Marble, Onyx and Stone Cut in Aggregate, Slabs, Blocks, Tiles, and Other Shapes and Suitable for Immediate Use for Construction Purposes for Walls, Floors, and Other Parts of Buildings, Monuments, and Other Structures.
Claims use since Aug. 2, 1951.

Ser. No. 618,393. Emil Garnich, Egg Harbor, N. J. Filed Sept. 5, 1951.

STON-O-FECT

The word "Ston" is disclaimed.
For Cement Building Blocks.
Claims use since June 28, 1951.

Ser. No. 619,397. Marsh Wall Products, Inc., Dover, Ohio, assignor to United States Plywood Corporation, New York, N. Y. Filed Sept. 29, 1951.

VELWOOD

For Wall Panels in Sheet or Panel Form for a Wall Covering To Be Used Instead of Plaster or Lumber for Constructional and/or Decorative Purposes.
Claims use since Sept. 11, 1951.

Ser. No. 619,557. Grant Wilson, Incorporated, Chicago, Ill. Filed Oct. 3, 1951.

Flexi-Duct

The word "Duct" is disclaimed. The drawing is lined for the color orange but no claim is made to color as a feature of the mark.
For Asbestos Woven Tape for Attachment to Air Transmission Lines To Prevent Noise Vibrations.
Claims use since Aug. 9, 1951.

Ser. No. 620,598. Goodyear Aircraft Corporation, Wilmington, Del., and Akron, Ohio. Filed Oct. 29, 1951.

BONDOLITE

For Metal Clad Sandwich Core Bonded Panels.
Claims use since Aug. 22, 1951.

Ser. No. 620,829. W. M. Rumfelt, doing business as Claroka Co., Claremore, Okla. Filed Nov. 2, 1951.

CLAROKA

For Plaster or Stucco in Powdered or Granulated Form.
Claims use since Sept. 26, 1951.

Ser. No. 622,966. James T. Williams, doing business under the fictitious name and style of Beautility Precut Structures Company, Rocklin, Calif. Filed Dec. 28, 1951.

BEAUTILITY

For Prefabricated Building Structures for Commercial, Industrial, Agricultural, or Domestic Housing Use.
Claims use since Aug. 15, 1951.

Ser. No. 623,336. Cascades Plywood Corporation, Portland, Oreg. Filed Jan. 9, 1952.

Lebanite

The color red is a material feature of the trade-mark as used.
For "Hardboard," a Product Composed of Defiberized Wood Held Together by a Natural or Synthetic Binder, and Used as a Building and Industrial Material.
Claims use since Dec. 29, 1951.

Ser. No. 625,528. The Flintkote Company, New York, N. Y. Filed Feb. 26, 1952.

FLINTBINDER

For Rubber Additive for Asphaltic Concrete or for Concrete.
Claims use since Jan. 23, 1952.

Ser. No. 626,502. The Flintkote Company, New York, N. Y. Filed Mar. 15, 1952.

FLINTLOCK

For Roofing Shingles.
Claims use since Aug. 21, 1934.

Ser. No. 626,504. The Flintkote Company, New York, N. Y. Filed Mar. 15, 1952.

STRI-TEX

For Asbestos Cement Shingles.
Claims use since Dec. 13, 1949.

Ser. No. 626,648. United States Plywood Corporation, New York, N. Y. Filed Mar. 18, 1952.

SURFWOOD

For Plywood.
Cinims use since Dec. 12, 1951.

Ser. No. 627,018. Universal Atlas Cement Company, New York, N. Y. Filed Mar. 25, 1952.

ATLAS

Applicant claims ownership of Registrations Nos. 46,058, 85,938, and others.
For Hydraulic Cement.
Claims use since about Dec. 1, 1888.

Ser. No. 627,019. Universal Atlas Cement Company, New York, N. Y. Filed Mar. 25, 1952.

LUMNITE

Applicant claims ownership of Registrations Nos. 261,704 and 192,958.
For Hydraulic Cement.
Claims use since June 5, 1924.

Ser. No. 627,020. Universal Atlas Cement Company, New York, N. Y. Filed Mar. 25, 1952.

UNAFLO

Applicant claims ownership of Registrations Nos. 351,606, 362,676, and others.
For Hydraulic Cement.
Claims use since Oct. 5, 1936.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 584,196. Mort Greene Enterprises, Inc., Los Angeles, Calif. Filed Aug. 29, 1949.

Tipsy

For Combination Stopper and Liquid Pouring Device for Pouring Drinks for Use on Bottles.
Claims use since June 22, 1949.

Ser. No. 585,850. Loxit Systems, Inc., Chicago, Ill. Filed Oct. 6, 1949. (Sec. 2f.)

LOXIT

For Metal Tubing; Metal Carpet Strips; Metal Price Tag Mouldings; Metal Rug Ends; Metal Bar Rails; Clips and Anchors for Use in Laying Floors; Clips, Splines, T's and Crosses for Use in Suspension Systems for the Erection of Acoustical Tiles and Slabs; Clips; Springs; Metal Bar Troughs; and Combined Map Hooks and Spring Clips.
Claims use since 1934.

Ser. No. 596,952. H. M. Sanders Co., Boston, Mass. Filed May 5, 1950. (Sec. 2f.)

HARDWARE

The trade-mark consists of the collective picturization of the multiple items cognizable as pertinent to the hardware trade, the pictured items being fancifully posed as letter components and being novelly set in word-ordered arrangement. No claim of exclusive use right is here made for the word "Hardware" as such, nor per se for any individual representation of any hardware item apart from the fanciful collective picturization thereof in the mark substantially as shown by the drawing and specimens.
For Heavy Hardware—Namely, Bolts and Nuts, Nails, Brads, Tacks, Staples and Screws, Cotter Pins, Door Checks, Door Closers, Door Hangers and Trucks, Metal Pipe and Tube and Parts, Connections and Couplings Therefor, Hardware Hooks and Eyes, Basemetal Chains, Metallic Washers, Springs, Fluid Valves and Metal Valve Parts, Metal and Wire Fencing and Posts; General Household Hardware—Namely, Metal Brackets, Holders, Racks, Cleats, Clips, Hasps, Trays, Plates, Wire and Plastic Screening, Shower Heads, Lawn Sprinklers, Nozzles; Furniture and Cabinet Hardware and Accessories—Namely, Hinges, Handles, Fasteners, Catches, Latches, Pulls and Knobs, Door Knockers; Window Hardware—Namely, Sash Chain, Sash Fasts, Sash Pulls, and Sash Pulleys; and Kitchen Hardware—Namely, Enamelware and Basemetal Pots and Pans and Double-Boilers, Canning Racks, Coffee Makers, and Pressure Cookers.
Claims use at least since 1892.

Ser. No. 619,449. Continental Copper & Steel Industries, Inc., New York, N. Y. Filed Oct. 1, 1951. (Sec. 2f.)

HANOVER

For Wire Screening.
Claims use since 1903.

Ser. No. 621,974. Manning, Maxwell & Moore, Incorporated, New York, N. Y. Filed Dec. 1, 1951.

MANNING MAXWELL & MOORE INC. M&M

The words "Manning, Maxwell & Moore Inc." are disclaimed. Applicant claims ownership of Registration No. 139,576.
For Valves—Namely, Safety, Relief, Globe, Angle and Gate Valves and Parts Thereof—Namely, Bases, Bushings, Feathers, Spindles, Compression Screws, Springs, Discs, Disc Guides, Metallic Washers, Discharge Elbows, and Mufflers.
Claims use since July 1946.

Ser. No. 622,261. Keystone Steel and Wire Company, Peoria, Ill. Filed Dec. 8, 1951.

KEYWELD

For Welded Metal Mesh Fabric.
Claims use since Oct. 17, 1951.

Ser. No. 624,397. Coyne & Delany Co., Brooklyn, N. Y. Filed Feb. 1, 1952. (Sec. 2f.)

DELANY

For Flush Valves and Parts Thereof Consisting of Diaphragms, Tilting Valves, Washers, Handle Actuators, and Handle Sealing Units.
Claims use since 1928.

Ser. No. 628,004. Markwell Manufacturing Co., Inc., New York, N. Y. Filed Apr. 12, 1952.

RW

For Staples Used for Fastening Papers, Cardboard, Fabrics and Light Gage Metal Together, Also for Fastening Papers, Cardboard, Fabrics and Light Gage Metal on to Wood.
Claims use since December 1940.

Ser. No. 628,030. The Associated Merchandising Corporation, New York, N. Y. Filed Apr. 14, 1952.

AMC

Applicant claims ownership of Registration No. 531,203.
For Toilet Seats.
Claims use since Feb. 18, 1952.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 620,115. Union Carbide and Carbon Corporation, New York, N. Y. Filed Oct. 17, 1951.

HASCROME

Applicant claims ownership of Registration No. 269,966.
For Metal Alloys, Metal Alloy Welding Rods, Metal Alloy Hard-Facing Rods, and Metal Alloy Castings.
Claims use since 1929.

Ser. No. 623,754. Fansteel Metallurgical Corporation, North Chicago, Ill. Filed Jan. 18, 1952.

TANTALOY

Applicant claims ownership of Registrations Nos. 353,397 and 353,960.
For Alloys of Refractory Metals in the Form of Sheets, Rods, and Wire.
Claims use since May 7, 1937.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 616,713. Lancaster Chemical Corporation, New York, N. Y. Filed July 20, 1951.

SOLAC

For Coal Tar Pitch Emulsion Used as a Protective Coating on Pavements, Runways, Pipes, Etc.
Claims use since Mar. 14, 1949.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 617,508. P. Lorillard Company, New York, N. Y. Filed Aug. 9, 1951.



The drawing is lined for the color red. The outline of a cigarette package is disclaimed. Applicant claims ownership of Registration No. 506,836.
For Cigarettes.
Claims use since May 22, 1947.

Ser. No. 626,151. Continental Cigar Company, Inc., New York, N. Y. Filed Mar. 8, 1952.

BON GUSTO

For Cigars.
Claims use since Jan. 18, 1952.

Ser. No. 626,842. United States Tobacco Company, New York, N. Y. Filed Mar. 8, 1952. (Sec. 2f.)

PATTERSON'S

Applicant claims ownership of Registration No. 376,755.
For Smoking Tobaccos.
Claims use since Jan. 26, 1939.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 574,885. B. V. M. Corporation, Cleveland, Ohio. Filed Mar. 4, 1949.

Fi-Dō-Min

The drawing is lined for the colors blue and yellow.
For Vitamin Preparations for Veterinary Use.
Claims use since May 17, 1948.

Ser. No. 594,206. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware. Filed Mar. 18, 1950.



Applicant claims ownership of Registration No. 210,917.
For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Flavoring Material, or Ingredient in Medicines and Pharmaceutical Preparations.
Claims use since 1910.

Ser. No. 598,114. Sofia del Busto Razon, doing business under the name of Laboratorios Busto, Madrid, Spain. Filed May 25, 1950.



The drawing is lined for shading only. Applicant claims ownership of Spanish Registration No. 11,357, dated Mar. 6, 1905, renewed.
For Medicine for the Treatment of Obstruction (Costiveness), of Affections of the Respiratory Tract, of Broncho-Pulmonary Affections, and of Affections of the Urinary Tract.

Ser. No. 600,148. John L. Scala, doing business as Vail Pharmacal Company, Union, N. J. Filed July 1, 1950.

ACNEGO

The word "Acne" is disclaimed.
For Ointment Intended for the Treatment of Acne.
Claims use since June 5, 1950.

Ser. No. 606,093. The Votana Company, Portsmouth, Ohio. Filed Nov. 8, 1950.

VOTANA
FOR THE HAIR

The words "For the Hair" are disclaimed.
For Medicinal Preparation for the Treatment of Hair—Namely, a Liquid Particularly Useful in the Medicinal Treatment for the Scalp and Hair Roots and an Aid in Controlling Dandruff.
Claims use since Sept. 5, 1950.

Ser. No. 606,781. Zygmunt Gadomski, Jersey City, N. J. Filed Nov. 22, 1950.



For Rubbing Alcohol Compound.
Claims use since Jan. 24, 1950.

Ser. No. 610,693. Lanteen Medical Laboratories, Inc., Evanston, Ill. Filed Mar. 1, 1951.

Lantocillin

For Medicinal Tooth Powder Containing Penicillin.
Claims use since Feb. 23, 1951.

Ser. No. 615,633. Edgar A. Ferguson, Jr., Brooklyn, N. Y. Filed June 25, 1951.

HUNGREX

For Medicament in Tablet, Wafer, Gum and Liquid Form To Satiate the Appetite.
Claims use since May 5, 1951.

Ser. No. 615,813. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed June 28, 1951.

Bristamycin

For Antibiotic.
Claims use since June 13, 1951.

Ser. No. 615,814. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed June 28, 1951.

Peniceuticals

For Antibiotics.
Claims use since June 13, 1951.

Ser. No. 616,306. Vitacreme Products Company, Oakmont, Pa. Filed July 10, 1951.

Vitacreme

For Skin Ointment.
Claims use since June 19, 1948.

Ser. No. 617,262. Premo Pharmaceutical Labs., Inc., South Hackensack, N. J. Filed Aug. 2, 1951.

Fortimycin

For Preparation of Penicillin G Procaine, Buffered Penicillin G Sodium and Dihydrostreptomycin as the Sulphate for Aqueous Injection.
Claims use since July 18, 1951.

Ser. No. 617,521. Barbara Wirth, doing business as The Rheumatol Company, Davenport, Iowa, assignor to Roscoe W. Warner, Davenport, Iowa, and Melvin L. Vance, Mount Vernon, Ind. Filed Aug. 9, 1951.

RHEUMATOL + WR + WIRTH

The surname "Wirth" is disclaimed.
For Pharmaceutical Preparation—Namely, a Medicinal Liniment for External Use in Treating Human Ailments—Namely, the Diseases of Rheumatism, Neuralgia, Coughs, Pneumonia, Asthma, Bronchitis, Lumbago, Pain in the Stomach, Bowels, and Abdomen Due to Inflammation and Flatulence, and for General External Use in Congestion and Inflammation.
Claims use since June 1, 1907.

Ser. No. 619,049. Wyeth Incorporated, Philadelphia, Pa. Filed Sept. 20, 1951.

CAMOLOSE

Applicant claims ownership of Registration No. 131,889.
For Methyl Cellulose Granules for the Treatment of Constipation.
Claims use since Sept. 5, 1951.

Ser. No. 619,204. Kip, Aldrich & Co., Inc., Mineola, N. Y. Filed Sept. 25, 1951.

SANALĀV

For Buffered Acidic Solution Indicated in the Treatment of Trichomonal, Monilial and Mixed Non-Specific Bacterial Infections of the Vaginal Tract, and for a Liquid Douche for Maintaining Feminine Hygiene.
Claims use since June 15, 1951.

Ser. No. 621,508. Eaton Laboratories Inc., Norwich, N. Y. Filed Nov. 21, 1951.

FURADANTIN

Applicant claims ownership of Registrations Nos. 403,279, 441,715, and 541,155.
For Anti-Bacterial Preparations for Use in the Systemic and/or Local Treatment of Infections.
Claims use since July 17, 1950.

Ser. No. 629,275. Air Reduction Company, Incorporated, New York, N. Y. Filed May 7, 1952.

TRIMAR

For Inhalation Anesthetic.
Claims use since Jan. 14, 1952.

Ser. No. 629,586. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed May 12, 1952.

MIJIT

For Medicinal Preparation Particularly Useful as a Nasal Decongestant.
Claims use since Dec. 18, 1951.

Ser. No. 629,805. Magnolia Pharmaceuticals, Inc., Jackson, Miss. Filed May 16, 1952.

ZENGA

For Dietary Supplement.
Claims use since Feb. 21, 1952.

Ser. No. 630,146. Parke, Davis & Company, Detroit, Mich. Filed May 23, 1952.

NATABEC

For Vitamin Preparation.
Claims use since Apr. 25, 1952.

Ser. No. 630,467. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed June 6, 1952.

MAGNAMYCIN

For Antibiotic Preparation.
Claims use since June 3, 1952.

Ser. No. 630,472. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed May 29, 1952.

BRAZAMYCIN

For Antibiotic Derivative.
Claims use since Feb. 5, 1952.

CLASS 19

VEHICLES

Ser. No. 586,609. Wilkinson-Gresh, Inc., St. Petersburg, Fla. Filed Oct. 20, 1949.

TRAVEL-SHELF

The word "Shelf" is disclaimed.
For Shelf Adapted To Be Installed Above the Windshield in the Interior of a Vehicle.
Claims use since July 15, 1949.

Ser. No. 613,117. City Tool Accessories Corporation, Chicago, Ill. Filed Apr. 25, 1951.

CITCO

For Automobile Accessories—Namely, Dash Trays, Dash Rails, Ash Trays, Clothing Hangers, and Hood Ornaments, for Use in and on Automotive Vehicles.
Claims use since Apr. 17, 1950.

Ser. No. 616,639. Manton & Smith Company, Chicago, Ill. Filed July 18, 1951.

Bikemobile

For Bicycles.
Claims use since July 14, 1938.

Ser. No. 619,476. D. Sebel and Company Limited, Erith, Kent, England. Filed Oct. 1, 1951.

MOBO

Applicant claims ownership of British Registration No. 699,349, dated June 27, 1951.
For Perambulators and Push-Chairs.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 592,093. Natural Foods Institute, Olmsted Falls, Ohio. Filed Feb. 7, 1950.

VITA— — —MIX

The word "Mix" is disclaimed.
For Food Liquifiers.
Claims use since May 1, 1937.

Ser. No. 623,365. The Rattan Manufacturing Co., New Haven, Conn. Filed Jan. 9, 1952. (Sec. 2f.)

MARR

For Solderless Electrical Wire Connectors.
Claims use since on or about Feb. 1, 1924.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 623,281. Gilbert Stillman Macvaugh, Chevy Chase, Md. Filed Jan. 7, 1952.

ARITHO

For Educational Board Game Played With Movable Parts Including Practice Sheets.
Claims use since Oct. 15, 1948.

Ser. No. 625,559. The Gliebe Co., Brooklyn, N. Y. Filed Feb. 2, 1952. (Sec. 2f.)

GLIEBE'S *Hook-Pak*

The wording "Hook-Pak" is disclaimed. Applicant claims ownership of Registration No. 502,221.
For Fish Hook Holder and Protector.
Claims use since Jan. 8, 1947.

CLASS 23

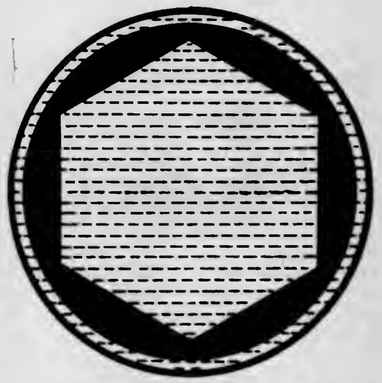
CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 561,503. Sears, Roebuck and Co., Chicago, Ill. Filed July 15, 1948. (Sec. 2f.)

KLEEN LINE

The representation of the goods is disclaimed. Applicant claims ownership of Registration No. 396,238.
For Hand Operated Mechanical Paint Striping Tool in the Nature of a Receptacle Having a Nozzle and Roller Tip in Combination With an Adjustable Valve Which Controls the Flow of Paint.
Claims use since July 20, 1939.

Ser. No. 576,511. Blackhawk Mfg. Co., Milwaukee, Wis. Filed Apr. 2, 1949.



The drawing is lined for silver. Applicant claims ownership of Registration No. 212,682.
For Socket Wrenches; Box Wrenches; Open End Wrenches; Ratchet Wrenches; Screw Driving Wrenches; Torque Indicating Wrenches; Tire Rim Wrenches; Universal Joint Wrenches; Pliers; Hydraulic Jacks; Hydraulic Rams; Hydraulic Pumps; Swivel Joints; Portable Service Jacks; Hydraulic Lifts; Metal Straightening, Bending, Clamping, and Spreading Mechanisms and Tools; Pipe, Tube, and Rod Benders; Spreading Wedges; Remote Control Apparatus for Hydraulic Pressure Applying Units; Wheel Pullers; Machine Element Pullers and Pushers for Removing and Inserting Parts; Tool Racks; Mechanics Work-Supporting Stands and Benches; Metal Cutters and Formers; and Hydraulic Control Mechanisms.
Claims use since May 6, 1924.

Ser. No. 602,599. Columbus Plastic Products, Inc., Columbus, Ohio. Filed Aug. 23, 1950.

Lustro-Ware

The word "Ware" is disclaimed. Applicant claims ownership of Registrations Nos. 416,862, 517,431, and 521,835.
For Combination Cheese Slicers and Storage Containers for Storing and Cutting Block Cheeses, and Spoon-Type Kitchen Scoops for General Culinary Use, Both Composed of Thermoplastic and/or Thermosetting Resins.
Claims use since July 1949.

Ser. No. 603,585. Maschinenfabrik Heid Aktiengesellschaft, Vienna, Austria. Filed Sept. 15, 1950.

SENSITAST

Priority under Sec. 44(d). Austrian application S. N. AM1435/50, filed May 25, 1950, Registration No. 18,556, dated May 25, 1950.

For Lathes—Namely, Copying Lathes With an Electric Tracer Mechanism, Sold as a Unit.

Ser. No. 604,394. Sandusky Foundry & Machine Co., Sandusky, Ohio. Filed Oct. 3, 1950.



The representation of the human is fanciful.

For Metal Rolls for Paper-Making Machinery and Miscellaneous Metal Machinery Parts—Namely, Bushings, Cylinders, Liners, Sleeves, Guides, Rolls, and Rotors.

Claims use since Mar. 1, 1946.

Ser. No. 604,396. Sandusky Foundry & Machine Co., Sandusky, Ohio. Filed Oct. 3, 1950.



The representation of the human is fanciful.

For Metal Rolls for Paper-Making Machinery and Miscellaneous Metal Machinery Parts—Namely, Bushings, Cylinders, Liners, Sleeves, Guides, Rolls, and Rotors.

Claims use since Mar. 1, 1946.

Ser. No. 604,775. Fleischmann Handle Company, a Division of The Fleischmann Corporation, Baltimore, Md. Filed Oct. 12, 1950.

REDSKIN
FIRE TEMPERED

The words "Fire Tempered" are disclaimed.

For Handles for Axes, Adzes, Sledges, Mauls, Picks, Mattocks, Grub Hoes, Hammers, and Hatchets.

Claims use since July 14, 1950.

Ser. No. 612,399. International Parts Corp., Chicago, Ill. Filed Apr. 9, 1951.



The words "Parts" and "Corp.," the phrase "The Symbol of Quality," and the representation of goods are disclaimed. Applicant claims ownership of Registration No. 371,823.

For Mufflers for Internal Combustion Engines and Parts Thereof—Namely, Tail Pipes, Exhaust Pipes, and Muffler Clamps; Axle and Drive Shafts, Cylinder Heads, Gears, and Pinions.

Claims use since Apr. 4, 1951, as shown; since July 1938 as to the words; and since Mar. 15, 1939, as to the emblem.

Ser. No. 625,992. Morse Sewing Machine and Supply Corp., New York, N. Y. Filed Mar. 5, 1952.

MARGARET

For Sewing Machines.

Claims use since May 10, 1950.

Ser. No. 626,227. Vital Products Manufacturing Company, Cleveland, Ohio. Filed Mar. 8, 1952.

Vitamatic

For Gun-Type Hand Tool for Dispensing Plastic Material Such as Calking Compound.

Claims use since Nov. 23, 1949.

Ser. No. 626,228. Vital Products Manufacturing Company, Cleveland, Ohio. Filed Mar. 8, 1952.

ROTO CALKER

The word "Calker" is disclaimed.

For Gun-Type Hand Tool for Dispensing Plastic Material Such as Calking Compound.

Claims use since Nov. 23, 1949.

Ser. No. 627,305. Sier-Bath Gear and Pump Co., Inc., North Bergen, N. J. Filed Mar. 6, 1952.

SIER-BATH

Applicant claims ownership of Registration No. 305,463.

For Gears, Worms, Wormwheels, Spiral, Spur and Bevel Gears, Sprockets for Roller and Silent Chains, Gear Pumps, Screw Pumps, and Gear Couplings.

Claims use since 1907.

CLASS 25

LOCKS AND SAFES

Ser. No. 538,221. The Yale & Towne Manufacturing Co., New York, N. Y. Filed Oct. 17, 1947.

Silver Six

For Padlocks.

Claims use since September 1939.

Ser. No. 626,293. Independent Lock Company, Fitchburg, Mass. Filed Mar. 12, 1952.

Black Knight

Applicant claims ownership of Registration No. 285,266.

For Padlocks and Keys Therefor.

Claims use since Apr. 15, 1930.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 611,922. Terrytoons, Inc., New Rochelle, N. Y. Filed Mar. 28, 1951.



The name "Terry" is disclaimed. The drawing is lined for shading only.

For Series of Motion Picture Animated Cartoons.

Claims use since Mar. 13, 1951.

Ser. No. 613,871. Gevaert Photo-Producten N. V., Mortsel, Belgium. Filed May 15, 1951.

GEVACOPY

Applicant claims ownership of Belgian Registration No. 15,131 (Antwerp), dated Mar. 12, 1951.

For Light Sensitive Photographic Material—Namely, Paper, Plates, and Films; Photographic Developing Apparatus—Namely, Trays and Tanks Connected or Not With Photographic Printing Apparatus, Enlargers, or Photographic Cameras.

Ser. No. 618,532. Coleman Instruments, Inc., Maywood, Ill. Filed Sept. 8, 1951.

AUTOTRATOR

For Instruments for Performing Laboratory Titrations of the Nature Having Valve Mechanism for Controlling the Addition of Titrant to a Solution and Electrical Apparatus for Indicating the Termination of the Titration and Controlling the Valve Mechanism.

Claims use since on or about Apr. 1, 1951.

Ser. No. 626,144. Charles Bruning Company, Inc., Teterboro, N. J. Filed Mar. 8, 1952. (Sec. 2f.)

BRUNING

For Photographic Materials—Namely, Sensitized Papers.

Claims use since 1945.

Ser. No. 626,323. Gevaert Photo-Producten N. V., Mortsel, Belgium. Filed Mar. 12, 1952.

LARJEX

Applicant claims ownership of Belgian Registration No. 15,376 (Antwerp), dated Feb. 20, 1952.

For Sensitized Photographic Material—Namely, Paper, Plates, and Films.

Ser. No. 626,450. Ercona Camera Corporation, New York, N. Y. Filed Mar. 14, 1952.

Makro Plasmat

For Photographic Lenses.

Claims use since June 1950.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 617,665. Juva-Tex, Inc., Chicago, Ill. Filed Aug. 14, 1951.

JUVA-TEX

Applicant claims ownership of Registration No. 374,397.

For Cellular Rubber Cosmetic Applicators in the Nature of Powder Puffs.

Claims use since Apr. 27, 1938.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 555,078. Proportioneers, Inc., Providence, R. I. Filed Apr. 20, 1948.

PUR-O-CEL

For Casings Containing Filter Units for Water, Liquid Foods, Varnishes, Oils, and Industrial Coolants.

Claims use since Sept. 1, 1946.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 607,791. Cadwallader Pacific Company, Los Angeles, Calif. Filed Dec. 18, 1950.

NATTAR

For Rattan Chairs, Sofas, Tables, Magazine Racks, and Stools.

Claims use since Aug. 21, 1950.

Ser. No. 616,874. Sealy, Incorporated, Chicago, Ill. Filed July 24, 1951.



The representation of the human figure is fanciful. Applicant claims ownership of Registrations Nos. 426,168, 433,307, and 518,024.

For Mattresses and Box Springs.

Claims use since June 1, 1950.

Ser. No. 619,087. Kentile, Inc., Brooklyn, N. Y. Filed Sept. 21, 1951.

JUNIOR KENSTYLER

The word "Junior" is disclaimed. Applicant claims ownership of Registration No. 515,131.
For Merchandising Display and Storage Cabinet.
Claims use since May 30, 1951.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 628,126. Reda Pump Company, Bartlesville, Okla. Filed Apr. 15, 1952.

REDA

For Melting Furnaces.
Claims use since Aug. 18, 1950.

CLASS 37

PAPER AND STATIONERY

Ser. No. 547,617. Consolidated Water Power & Paper Company, Wisconsin Rapids, Wis. Filed Jan. 21, 1948. (Sec. 2f.)

MODERN GLOSS

For Coated Paper for Printing Purposes.
Claims use since Oct. 16, 1939.

Ser. No. 558,767. Alfra Manufacturing Corporation, New York, N. Y. Filed June 9, 1948.

ROGER

For Fountain Pens and Pencils.
Claims use since Jan. 25, 1948.

Ser. No. 592,563. C. B. Gilmore, New York, N. Y. Filed Feb. 16, 1950. (Sec. 2f.)

HANDI HINGE

The word "Hinge" is disclaimed.
For Hinge Device Made of Fibrous Material—Namely, Paper or Fabric or a Combination Thereof for Use in Loose Leaf Binders.
Claims use since Oct. 23, 1934.

Ser. No. 596,991. The Egry Register Company, Dayton, Ohio. Filed May 6, 1950.

CONTINUFLO

For Partially Printed Forms for All Kinds of Business Transactions.
Claims use since Oct. 19, 1949.

Ser. No. 599,933. The C. L. Downey Company, Hannibal, Mo. Filed June 29, 1950.

POP-OPEN

For Tubular Coin Wrappers Which When Filled Constitute Rouleaux.
Claims use since on or about Jan. 1, 1925.

Ser. No. 605,549. A. B. Dick Company, Niles, Ill. Filed Oct. 28, 1950.

MIMEOLITH

For Materials Used in Lithographic and Planographic Printing for Office Duplication—Namely, Coated Paper Lithographic and Planographic Plates, Crayons, Pencils, Erasers, Masking Paper, Adapters in the Form of Sheets of Paper Gummed on One Side, and Reinforcement Sheets for Lithographic Plates in the Form of Sheets of Paper Gummed on One Side.
Claims use since Mar. 3, 1947.

Ser. No. 626,071. The Autotype Company Limited, London, England. Filed Mar. 7, 1952.

A AUTOTYPE

Applicant claims ownership of United States Registration No. 435,700.
For Unsensitized Photographic Paper.
Claims use since July 5, 1951, in Great Britain; and since Dec. 28, 1951, in commerce between Great Britain and the United States.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 567,254. Fraternal Order of Police, Philadelphia, Pa. Filed Oct. 20, 1948.

FOP

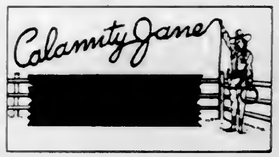
For Publication, Published From Time to Time.
Claims use since 1915.

Ser. No. 610,633. Rail Steel Bar Association, Chicago, Ill. Filed Feb. 28, 1951. (Sec. 2f.)

RAIL STEEL FOR STRENGTH

For Technical and Promotional Bulletins and Literature Published From Time to Time.
Claims use since June 30, 1922.

Ser. No. 617,856. Donald Barry Productions, Inc., Los Angeles, Calif. Filed Aug. 20, 1951.



The portrait of the woman is fanciful. "Calamity Jane" is the popular name of Martha Jane Canary Burke, 1852–1903.
For Pamphlets and Booklets Issued From Time to Time Dealing With the Life of and Times of Martha Jane Canary Burke, Popularly Known as "Calamity Jane."
Claims use since July 13, 1951.

Ser. No. 618,432. The Irving-Cloud Publishing Company, Chicago, Ill. Filed Aug. 1, 1951.

WASHINGTON PUMP ISLAND

The word "Washington" is disclaimed.
For Periodical Publication Section.
Claims use since July 1950.

Ser. No. 619,916. Rice Barton Corporation, Worcester, Mass. Filed Oct. 12, 1951.

Cellu-Letter

The term "Letter" is disclaimed.
For Periodical Publication.
Claims use since Aug. 1, 1951.

Ser. No. 621,160. Robert J. Moore, Spokane, Wash. Filed Nov. 13, 1951.

A KANDIKOTE Story

The word "Story" is disclaimed. The drawing is lined for red.
For Children's Books.
Claims use since Oct. 12, 1951.

Ser. No. 622,220. NEA Service, Inc., Cleveland, Ohio. Filed Dec. 7, 1951.

CHRIS WELKIN, Planeteer

The mark is the name of a fictitious character.
For Comic Strips Published in Daily Newspapers.
Claims use since Nov. 5, 1951.

Ser. No. 623,238. The Colony Broadcasting Corporation, New Haven, Conn. Filed Jan. 5, 1952.

INFO

For Periodicals.
Claims use since Jan. 1, 1952.

Ser. No. 623,447. Air Facts, Inc., New York, N. Y. Filed Jan. 11, 1952. (Sec. 2f.)

AIR FACTS

For Periodical, More Specifically a Monthly Publication.
Claims use since Feb. 1, 1938.

Ser. No. 626,103. Monsanto Chemical Company, St. Louis, Mo. Filed Mar. 7, 1952. (Sec. 2f.)

plastics MERCHANDISER

Applicant claims ownership of Registration No. 535,884.
For Publications Issued From Time to Time Devoted to Presenting New Plastic Articles of Manufacture and New Designs for Plastic Articles of Manufacture.
Claims use since February 1947.

Ser. No. 626,632. The McNaught Syndicate, Inc., New York, N. Y. Filed Mar. 18, 1952.

JOHNNY COMET

The name "Johnny Comet" is fanciful.
For Daily and Sunday Comic Strip.
Claims use since Jan. 28, 1952.

CLASS 39

CLOTHING

Ser. No. 552,836. Burlington Mills Corporation, Greensboro, N. C. Filed Mar. 24, 1948.

Woven into the Life of America

For Men's, Women's, and Children's Hosiery.
Claims use since Aug. 5, 1949.

Ser. No. 588,083. The Crown Overall Manufacturing Company, doing business as Larned, Carter & Company, Cincinnati, Ohio. Filed Nov. 19, 1949.

ZIP-IT

For Overalls and Work Clothes—Namely, Pants, Jumpers, and Shirts for Outer Wear and Shirts for Under Wear.
Claims use since Jan. 1, 1930.

Ser. No. 593,148. Ivanna Wagner, Los Angeles, Calif. Filed Feb. 27, 1950.

Ivanna Wagner designed "CLASSIC BUMS"

The word "Designed" is disclaimed.
For Men's, Women's, and Children's Clothing—Namely, Outer Shirts, Blouses, Slacks, Outer Shorts, Shirts, Jackets, Coats, Sweaters, Dresses, and Vests.
Claims use since May 1949.

Ser. No. 593,149. Ivanna Wagner, Los Angeles, Calif. Filed Feb. 27, 1950.

Ivanna Wagner designed "KENWILL-WEAR" OF CALIFORNIA

The words "Wear," "Designed," and "Of California" are disclaimed.
For Men's, Women's, and Children's Clothing—Namely, Outer Shirts, Blouses, Slacks, Outer Shorts, Skirts, Jackets, Coats, Sweaters, Dresses, Vests, and Lounging and Sleeping Pajamas.
Claims use since May 1949.

Ser. No. 595,975. Patton Manufacturing Company, Decherd, Tenn., now by change of name N. M. Patton and Company. Filed Apr. 19, 1950. (Sec. 2f as to "Fashion Center.")

TAILORED BY FASHION CENTER Clothes INCORPORATED

All wording except "Fashion Center" is disclaimed.
For Men's and Women's Suits and Coats.
Claims use since Jan. 16, 1935.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 605,070. Syndicat Francais des Textiles Artificiels, Paris, France. Filed Oct. 17, 1950.



Priority under Sec. 44(d). French application filed June 6, 1950, Registration No. 403,548, dated June 6, 1950.
For Textile Fabrics, Including Embroidered Ones, of Cotton, Silk, and Synthetic Fibres.

Ser. No. 618,252. Wamsutta Mills, New Bedford, Mass. Filed Aug. 30, 1951.

BEDMAKER

For Bed Sheets.
Claims use since Aug. 16, 1951.

Ser. No. 620,181. Wamsutta Mills, New Bedford, Mass. Filed Oct. 18, 1951.

SUTTAMODE

Applicant claims ownership of Registrations Nos. 532,920 and 532,921.
For Cotton Piece Goods.
Claims use since Oct. 2, 1951.

Ser. No. 620,793. Verney Corporation, Manchester, N. H. Filed Nov. 1, 1951.

Sweetwater

For Piece Goods Made of Acetate and Rayon Blended Together or Blended With Other Synthetic Fibers or Cotton Fibers.
Claims use since Sept. 5, 1951.

Ser. No. 620,801. Chicopee Mills, Inc., New York, N. Y. Filed Nov. 2, 1951.

Crinolast

For Fabric in the Piece of Cotton and Synthetic Fibers.
Claims use since Sept. 6, 1951.

Ser. No. 624,517. I. A. Wyner & Co., Inc., New York, N. Y. Filed Feb. 4, 1952.

Caerfree

Applicant claims ownership of Registration No. 260,653.
For Knitted Piece Goods, Composed of Silk, Rayon, Nylon, Wool, Cotton, Worsted, Linen, and Combinations Thereof.
Claims use since Apr. 1, 1929.

Ser. No. 625,801. William Heller, Inc., New York, N. Y. Filed Mar. 1, 1952.

HALIX

For Rayon Piece Goods.
Claims use since Dec. 23, 1951.

Ser. No. 626,613. Fair Tex Mills, Inc., Catasauqua, Pa., and New York, N. Y. Filed Mar. 18, 1952.

Fair Tex Mills, Inc.

For Knitted Textile Fabrics Made of Cotton, Wool, Rayon, Nylon, and Mixtures of the Same, in the Piece.
Claims use since July 1, 1950.

Ser. No. 626,714. Topton Rug Manufacturing Co., Topton, Pa. Filed Mar. 19, 1952.

Heritage

For Cotton and Rayon Braided Rugs.
Claims use since Jan. 25, 1950.

Ser. No. 626,777. E. T. Barwick, doing business as E T Barwick Mills, Chamblee, Ga. Filed Mar. 21, 1952.

Royal Crest

For Cotton Carpeting.
Claims use since Oct. 15, 1951.

Ser. No. 626,778. E. T. Barwick, doing business as E T Barwick Mills, Chamblee, Ga. Filed Mar. 21, 1952.

Royal Tweed

The word "Tweed" is disclaimed.
For Cotton Carpeting.
Claims use since Oct. 15, 1951.

Ser. No. 626,863. Crown Fabrics Corporation, New York, N. Y. Filed Mar. 22, 1952.



Applicant claims ownership of Registration No. 408,795.
For Textile Fabrics in the Piece Made of Wool, Cotton, Silk, Rayon, and Mixtures Thereof.
Claims use since July 1943.

Ser. No. 627,481. Angelica Uniform Company, St. Louis, Mo. Filed Apr. 3, 1952.

Luxtraply

For Poplin Fabric.
Claims use since Mar. 24, 1952.

Ser. No. 627,572. Gloversville Knitting Company, Gloversville, N. Y. Filed Apr. 4, 1952.

Mistiglo

For Knitted Coat Fabric Composed of Cotton Backing With a Wool Facing.
Claims use since Sept. 6, 1951.

Ser. No. 627,623. Cameo Curtains Inc., New York, N. Y. Filed Apr. 5, 1952.

fliks

For Window Draperies and Curtains.
Claims use since Jan. 6, 1952.

Ser. No. 627,634. Meb Export Co. Inc., New York, N. Y. Filed Apr. 5, 1952.



ATESH

For Cotton Piece Goods.
Claims use since Feb. 25, 1952.

Ser. No. 630,814. United Hosiery Mills Corporation, Chattanooga, Tenn., assignor to Bebon Corporation, Chattanooga, Tenn., a corporation of Tennessee. Filed June 5, 1952.

BEBON

Applicant claims ownership of Registration No. 551,345.
For Cotton Piece Goods.
Claims use since May 23, 1952.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 609,585. Beltone Hearing Aid Company, Chicago, Ill. Filed Feb. 3, 1951.

fashionear

For Electronic Hearing Aids and Parts Thereof—Namely, External Microphones and Covers and Connecting Cords for External Microphones.
Claims use since Oct. 10, 1950.

Ser. No. 611,472. Casco Products Corporation, Bridgeport, Conn. Filed Mar. 17, 1951. (Sec. 2f.)

Perfection

Applicant claims ownership of Registration No. 391,429.
For Electric Heating Pads for Therapeutic Use.
Claims use since Aug. 23, 1940.

Ser. No. 616,029. Dr. Albert Gerber, Berne, Canton of Berne, Switzerland. Filed July 3, 1951.

CONDYLATOR

Applicant claims ownership of Swiss Registration No. 136,201, dated Dec. 15, 1950.
For Articulators.

Ser. No. 618,927. Hugo Gloeckler, New York, N. Y. Filed Sept. 18, 1951.

Fro Glow

For Fluid Filled, Plastic, Form Fitting and Light Weight Container With Fluid Sealed Therein and Used as a Hot and Cold Pack for Comfort and Therapeutic Purposes.
Claims use since July 27, 1951.

Ser. No. 620,011. Normatone Hearing Aid Co., St. Paul, Minn. Filed Oct. 15, 1951.

Normatone

For Hearing Aids.
Claims use since Oct. 1, 1951.

Ser. No. 621,746. Martin I. Askin, Philadelphia, Pa. Filed Nov. 28, 1951.

Plastiband

For Perforated and Unperforated Band or Tape Made of Plastic, Vinyl, or Other Waterproof Material, in Various Widths, From ½ Inch to 4 Inches, Etc. and Various Lengths, 3 Yards to 10 Yards, Etc., To Be Wrapped Over Surgical Dressings and Bandages, To Protect or Guard Them From Soiling, To Keep Them Clean, and To Also Keep the Dressings or Bandages Dry When Bathing or Washing the Affected Parts of the Anatomy.
Claims use since June 1950.

Ser. No. 625,808. Johnson & Johnson, New Brunswick, N. J. Filed Mar. 1, 1952.

FLEXIKON

For Adhesive Tape for Surgical, Medical, and Emergency Use.
Claims use since Jan. 22, 1952.

Ser. No. 625,844. Braro Products, Chicago, Ill. Filed Mar. 3, 1952.

ALWAZE

For Nursing Aids—Namely, Fluid Ducts and Valves for Use in Nursing Bottles and Nursing Bottle Nipples.
Claims use since Nov. 26, 1951.

Ser. No. 625,990. Roland M. Miller, doing business as Roe Miller Dental Laboratory, Cleveland, Ohio. Filed Mar. 5, 1952.

ROE ○ TECH

The dot between "Roe" and "Tech" is white. Applicant claims ownership of Registration No. 550,966.
For Dentures, Dental Plates, and Bridges.
Claims use since Dec. 17, 1951.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 559,044. Oconomowoc Canning Company, Oconomowoc, Wis. Filed June 11, 1948. (Sec. 2f—Additional evidence.)

Big Sweets



The drawing is stippled for shading purposes only. The representation of the peas is disclaimed. Applicant claims ownership of Registration No. 372,053.
For Canned Peas.
Claims use since Aug. 20, 1938.

Ser. No. 617,651. Dixie Advertisers, Jackson, Miss. Filed Aug. 14, 1951.

Wapples

For Fresh Apples.
Claims use since July 6, 1951.

Ser. No. 619,475. Schachet Mercantile Company, Denver, Colo. Filed Oct. 1, 1951.

Bonnie SAILS

For Herring Fillets, Smoked Salmon, Pickled Fish, Smoked Fish, Spices, Soup Mix, Dill Pickles, Dilled Tomatoes, Pickled Cherry Peppers, Cocktail Sauces, Horseradish, and Canned Vegetables.
Claims use since June 1, 1951.

Ser. No. 622,153. Fabrique de Chocolat et de Produits Alimentaires de Villars, Société Anonyme, Fribourg, Switzerland. Filed Dec. 6, 1951.

DE VILLARS

The trade-mark consists of the words "De Villars," the letters of which are arranged to represent the picture of a cow. Applicant claims ownership of Swiss Registration No. 121,600, dated Aug. 28, 1947, and United States Registration No. 274,497.
For Candy.
Claims use since 1901 in Switzerland; and since 1928 in commerce between Switzerland and the United States.

Ser. No. 629,036. Osceola Foods, Inc., Osceola, Ark. Filed May 1, 1952.



The portrait of the girl is fanciful. The drawing is lined for red and blue but no claim is made to color.
For Oleomargarine.
Claims use since May 31, 1949.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 554,728. Societe Jacques Frederic Fath et Compagnie, Paris, France. Filed Apr. 15, 1948.

"IRIS GRIS"

The word "Iris" is disclaimed. Applicant claims ownership of French Registration No. 392,846, dated July 17, 1946.
For Perfumes, Rice Powder, and Lipsticks.

Ser. No. 569,720. Maurice Blanchet Parfums de Luxe Societe Anonyme, Suresnes, France. Filed Dec. 1, 1948.

CORYSE SALOMÉ

Applicant claims ownership of French Registration No. 363,724, dated Jan. 31, 1946, and United States Registrations Nos. 265,317 and 544,785.
For Perfume, Toilet Water, Eau de Cologne, Face Powder, Rouge.

Ser. No. 600,966. Jules Montenier, Inc., Chicago, Ill. Filed July 20, 1950.

Poof! ...there goes perspiration

The words "There Goes Perspiration" are disclaimed.
For Body Deodorants.
Claims use since Feb. 21, 1950.

Ser. No. 609,531. Bourjois, Inc., New York, N. Y. Filed Feb. 2, 1951.

HIDE 'N SEEK

For Aromatized Sachet Packets.
Claims use since Dec. 8, 1950.

Ser. No. 612,232. Alma Products Company, San Francisco, Calif. Filed Apr. 5, 1951.

Cathy

For Hair Milk and Scalp Conditioner, a Face Cream, and a Preparation for Removing Dandruff From the Scalp.
Claims use since Jan. 5, 1950.

Ser. No. 613,500. Campana Corporation, Batavia, Ill. Filed May 4, 1951.

Sheer Magic

The word "Sheer" is disclaimed. Applicant claims ownership of Registration No. 520,980.
For Liquid Make-Up Preparation.
Claims use since Feb. 20, 1951.

Ser. No. 615,136. George E. Samar, doing business as Samar Cosmetic Co., Syracuse, N. Y. Filed June 13, 1951.

Convicted

For Cologne, Perfume, Face Powder, Skin Creams, and Lipsticks.
Claims use since Dec. 21, 1950.

Ser. No. 616,052. Sales Affiliates, Inc., New York, N. Y. Filed July 3, 1951.

WAVE LOCK

The word "Wave" is disclaimed.
For Waving Lotion and a Neutralizer Used in the Cold Wave Process of Waving Hair.
Claims use since June 15, 1951.

Ser. No. 616,132. George E. Samar, doing business as Samar Cosmetic Co., Syracuse, N. Y. Filed July 5, 1951.

My destiny

For Cologne, Perfume, Face Powder, Skin Creams, and Lipsticks.
Claims use since May 8, 1951.

Ser. No. 617,605. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

ACETYRISIA

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Aug. 10, 1937.

Ser. No. 617,611. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

IRROZOL

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Jan. 7, 1930.

Ser. No. 617,612. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

MADRYSIA

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since May 3, 1947.

Ser. No. 617,613. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

MELYSFLOR

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Nov. 4, 1935.

Ser. No. 617,615. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

SUMATREX

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Nov. 6, 1939.

Ser. No. 617,617. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

TUBERANTHIA

For Natural and Synthetic Essential Oils and Aromatic Chemicals Used as a Base or an Ingredient in Perfumery.
Claims use since Feb. 2, 1949.

Ser. No. 619,326. Glida Audrey Products, Inc., New York, N. Y. Filed Sept. 28, 1951.

CUSTOMCOOL

For Cold Wave Solution, for the Hair.
Claims use since Aug. 29, 1951.

Ser. No. 619,460. Walter A. Fansler, doing business as sole proprietor under the name and style of Fuller Pharmaceutical Company, Minneapolis, Minn. Filed Oct. 1, 1951.

Tucks

For Disposable Cleansing Cloths Moistened With Witch-Hazel Solution.
Claims use since June 23, 1951.

Ser. No. 619,613. Exclusive Import Company, Inc., Chicago, Ill. Filed Oct. 5, 1951.

SIBONNE

For Perfumes, Perfume Essences, and Toilet Water.
Claims use since June 18, 1951.

Ser. No. 619,829. The Grove Laboratories, Inc., St. Louis, Mo. Filed Oct. 10, 1951. (Sec. 2f.)

FITCH

Applicant claims ownership of Registrations Nos. 69,936, 516,740, and others.
For After Shave Lotion, a Preparation for Setting Waves Used in Dressing the Hair, Hair Tonic, Hair Dressing, Hair Oil, Brilliantine, Brush Shaving Cream, Vanishing Cream, Disappearing Cream, Cleansing Cream, Lemon Cleansing Cream, Cocoa Butter Lubricating Cream, Toilet Finishing Cream, and Massage Cream.
Claims use since 1893.

Ser. No. 620,010. Newbro Mfg. Co., Atlanta, Ga. Filed Oct. 15, 1951.

SULFUR-Q

The word "Sulfur" is disclaimed.
For Preparation for Conditioning the Hair and Scalp.
Claims use since May 22, 1951.

Ser. No. 622,797. Bounce, Inc., Dayton, Ohio. Filed Dec. 26, 1951.

BOUNCE!

For Foot Lotion Which Imparts Cooling, Refreshing, and Deodorizing Properties.
Claims use since Dec. 12, 1951.

Ser. No. 622,823. Guerlain, Inc., New York, N. Y. Filed Dec. 26, 1951.

ATUANA

For Perfumes, and Toilet Preparations—Namely, Perfume Extract, Eau de Toilette, Eau de Cologne, Brilliantine, Bath Oil; Talcum Powder, Face Powder, and Lotion for the Face and Hands.
Claims use since Dec. 14, 1951.

Ser. No. 626,138. Elizabeth Arden Sales Corporation, New York, N. Y. Filed Mar. 8, 1952. (Sec. 2f.)

ALLAMANDA

For Bath Salts.
Claims use since Feb. 20, 1931.

Ser. No. 626,139. Elizabeth Arden Sales Corporation, New York, N. Y. Filed Mar. 8, 1952. (Sec. 2f.)

ROSE GERANIUM

For Bath Salts.
Claims use since Feb. 20, 1931.

Ser. No. 627,274. Parfums Ciro, Inc., New York, N. Y. Filed Mar. 29, 1952.

one on the house

For Perfume.
Claims use since Feb. 28, 1952.

Ser. No. 627,307. Donfield Company, Inc., Syracuse, N. Y. Filed Mar. 10, 1952.

CHYLIA

For Skin Lotion.
Claims use since Nov. 5, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 575,423. Petrolite Corporation, Ltd., doing business under the name of Tret-O-Lite Co. of Calif., St. Louis, Mo., and Los Angeles, Calif., now by change of name Petrolite Corporation. Filed Mar. 14, 1949.

MUD-EX

The word "Mud" is disclaimed.
For Chemical Reagent for Cleaning and for Removing From a Well or From an Oil- or Gas-Bearing Formation in a Well Mud-Like Sheathing or Coating on the Well Wall Resulting From the Use of Drilling Fluids in the Drilling Operation, or Resulting From the Presence in the Well, at Some Other Time, of Fluids Capable of Producing Such Sheathing or Coating and for Penetrating the Formation To Facilitate the Return of Water to the Hole Whether Derived From Drilling Mud, Cognate Waters, or Any Other Source.
Claims use since December 1935.

Ser. No. 601,717. E. F. Drew & Co., Inc., New York, N. Y. Filed Aug. 4, 1950.

CONSYN

For Detergents in the Form of a Viscous Liquid for General Use and Having the Properties of Lowering Surface Tension, Causing Colloidal Dispersion or Deflocculation, Forming Emulsions or Suspensions and Foaming, for Use for Industrial and Household Maintenance, and as an Ingredient of Hand Soaps and Shampoos.
Claims use since May 3, 1948.

Ser. No. 604,090. Fuld Brothers, Inc., Baltimore, Md. Filed Sept. 27, 1950.



The lining in the drawing is intended only to show contrast and no claim is made to the lining as such. The words "Guaranteed" and "Quality" are disclaimed.
For Detergents and Soaps for: Toilet Use, Hands, Floors, Industrial Uses, Hospitals, Walls, Waxed Surfaces, Rugs, Upholstery, General Cleaning, Automobiles, Removing Carbon Deposits, Degreasing, Dishwashing, Windows, Fabrics, Tile, Porcelain, Enamel, and Metals.
Claims use since Aug. 30, 1950.

Ser. No. 614,244. The Du Bois Company, Cincinnati, Ohio. Filed May 23, 1951.

ION-KOTE

The term "Kote" is disclaimed.
For Phosphatizing Paint-Preparatory Wash for Metal Surfaces.
Claims use since May 1, 1951.

Ser. No. 619,645. Peck's Products Company, St. Louis, Mo. Filed Oct. 5, 1951. (Sec. 2f.)

PECK'S

For Liquid Detergents for Dishwashing, Glass Washing, and Floor Cleaning Purposes, Solid Detergents for Dishwashing and Laundry Purposes, Soap Bases, Soap Powders, Liquid Soaps, Bar Soaps, Neutral Cleaners, Disinfectant Cleaners, Germicidal Rinse for Sanitizing Washed Tableware, Deodorizing Cleaning Compounds, Powdered Hand Soap, Dishwashing Compounds, Liquid Rug Shampoo, Liquid Concrete Cleaner, Degreasers, Powdered Car Wash, Emulsion Bases for Disinfectant Cleaners, and Antiseptic Soaps.
Claims use since 1926.

Ser. No. 624,386. Bersworth Chemical Company, Framingham, Mass. Filed Feb. 1, 1952.

VERSENER

Applicant claims ownership of Registration No. 410,354.
For Water Softening Agents in Powdered and Liquid Form With Detergents.
Claims use since June 8, 1951.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 609,118. L. W. Blair, doing business under the name of Proof of Parentage Association, Pocahontas, Iowa. Filed Jan. 23, 1951.

POPA

For Registering Calves, Colts, Kids, Shoats, Pups, and Other Animals Begotten by Artificial Insemination; Registering the Parentage of Such Animals; Issuing Certificates Identifying Such Animals and Their Parentage; and Disseminating Information Regarding the Parentage of Such Certified Animals.
Claims use since Nov. 21, 1950.

Ser. No. 613,116. Camping, Inc., doing business as Camp Thunderbird, St. Louis, Mo. Filed Apr. 25, 1951.

CAMP THUNDERBIRD

The word "Camp" is disclaimed.
For Services in the Nature of Escorted Camping Trips.
Claims use since October 1946.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 608,120. The Minneapolis Savings and Loan Association, Minneapolis, Minn. Filed Dec. 27, 1950.



For Making Home Loans, Accepting Savings for Deposits for Depositors or Residents of the State of Minnesota and Other States Within the United States.
Claims use since June 30, 1930.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 621,328. Orkin Exterminating Co., Inc., Atlanta, Ga. Filed Nov. 16, 1951. (Sec. 2f.)

ORKIN

Applicant claims ownership of Registration No. 289,510.
For Ridding Property and Structures of Termites, Pests, and Rodents and Controlling and Protecting Such Property and Structures Against Infestation and Reinfestation by Termites, Pests, and Rodents by the Use of Various Chemicals, Gases, Traps, and Other Devices; Fumigating; and Horticultural Spraying Services.
Claims use since 1901; and since 1926 in the exact form shown.

CLASS 104

COMMUNICATION

Ser. No. 619,040. South Shore Broadcasting Company, Quincy, Mass. Filed Sept. 20, 1951.

DON DIXON

The name "Don Dixon" is fanciful.
For Radio Broadcasting of Weather Reports.
Claims use since Sept. 11, 1947.

CLASS 106

MATERIAL TREATMENT

Ser. No. 602,685. General Box Company, Chicago, Ill. Filed Aug. 24, 1950. (Sec. 2f—Additional evidence.)

The Container is "Part of the Product"

For the Custom Fabrication of Containers.
Claims use since February 1944.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 608,115. Phillips H. Lord, Inc., New York, N. Y. Filed Dec. 27, 1950.

Counter Spy

For Entertainment Through the Medium of an Integrated Series of Dramatic Radio Programs Broadcast From Time to Time.
Claims use since on or about May 18, 1942.

Ser. No. 608,116. Phillips H. Lord, Inc., New York, N. Y. Filed Dec. 27, 1950.

Gangbusters

For Entertainment Through the Medium of an Integrated Series of Dramatic Radio Programs Broadcast From Time to Time.
Claims use since on or about Jan. 15, 1936.

Ser. No. 608,117. Phillips H. Lord, Inc., New York, N. Y. Filed Dec. 27, 1950.

Mr. District Attorney

For Entertainment Through the Medium of an Integrated Series of Dramatic Radio Programs Broadcast From Time to Time.
Claims use since on or about Apr. 3, 1939.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,722. Miniature Bowling Game. Associated Patent Industries, Chicago, Ill.
Filed Mar. 10, 1947, Serial No. 518,745. Published July 22, 1952. Class 22.

444,723. Aprons — Namely, Carpenters' Aprons and Yardsmen's Aprons, Overall Coats, Overall Pants, Etc. The Lehon Company, Chicago, Ill.
Filed Apr. 15, 1947, Serial No. 520,742. Published July 8, 1952. Class 39.

ACT OF 1946, PRINCIPAL REGISTER

565,160. Automobile Vehicles and Structural Parts Thereof. Willys-Overland Motors, Inc., Toledo, Ohio.
Original filed, act of 1905, Sept. 3, 1943; amended to application under act of 1946, Principal Register, June 23, 1949, Serial No. 463,220. Published June 10, 1952. Class 19.

565,161. Rayon Yarns. American Enka Corporation, Enka, N. C.
Filed Aug. 11, 1947, Serial No. 531,001. Published July 1, 1952. Class 43.

565,162. Radioscopes, Radiographs, and X-Ray Units for Therapeutic or Surgical Purposes. Louis Gleize-Rambal, Marseille, France.
Filed Aug. 26, 1947, Serial No. 533,804. Published July 22, 1952. Class 44.

565,163. Snack Crackers Made by the Pretzel Making Process. Henry Melitzer, doing business under the name of Popcorn Service Company, New York, N. Y.
Filed Dec. 18, 1947, Serial No. 544,748. Published July 15, 1952. Class 46.

565,164. Livestock Feed, the Principal Ingredients of Which Are Cotton Seed Meal, Linseed Oil Meal, Soybean Oil Meal, Corn Gluten Meal, and Ground Grain Screenings (Corn, Wheat, and Oats). G. E. Conkey Co., Cleveland, Ohio, a corporation of Maine, now by change of name Wirthmore Feed Co., assignee of The G. E. Conkey Company, a corporation of Ohio.
Filed Dec. 31, 1947, Serial No. 545,826. Published July 22, 1952. Class 46.

565,165. Electrically-Heated Pads and Blankets for Therapeutic Uses. Battle Creek Equipment Company, Battle Creek, Mich.
Filed Feb. 11, 1948, Serial No. 549,411. Published July 22, 1952. Class 44.

565,166. Canned Food Products—Namely, Tomato Paste, Tomato Sauce, Peeled Tomatoes, Spaghetti, and Canned Peppers. Hershel California Fruit Products Co., San Jose, Calif.
Filed Feb. 17, 1948, Serial No. 549,929. Published July 15, 1952. Class 46.

565,167. Ladies' and Misses', and Children's Gloves Made of Leather, Fabric, or Combinations Thereof, and Hosiery. Ely & Walker Dry Goods Company, St. Louis, Mo.
Filed Mar. 30, 1948, Serial No. 553,353. Published Oct. 31, 1950. Class 39.

565,168. Watches and Chronographs. Montres Delbana S. a. r. l., Granges, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 123,436, filed Jan. 16, 1948.
Filed May 26, 1948, Serial No. 557,865. Published July 1, 1952. Class 27.

565,169. Felts for Paper Machinery, Felts for Fabric Processing Machinery, Fabric Press Pads Employed as Cushions or Pads in Platen Presses, and Fabric Aprons for Laundry Drying and Ironing Machines. Asten-Hill Mfg. Co., Philadelphia, Pa.
Filed July 2, 1948, Serial No. 560,597. Published June 24, 1952. Class 50.

565,170. Felts for Paper Machinery, Felts for Fabric Processing Machinery, Fabric Press Pads Employed as Cushions or Pads in Platen Presses, and Fabric Aprons for Laundry Drying and Ironing Machines. Asten-Hill Mfg. Co., Philadelphia, Pa.
Filed July 2, 1948, Serial No. 560,598. Published June 24, 1952. Class 50.

565,171. Lubricating Oil and Greases. Autol Incorporated, New York, N. Y.
Filed July 14, 1948, Serial No. 561,287. Published Nov. 14, 1950. Class 15.

565,172. Fishballs Cooked and Ready To Eat Packed in Glass Jars. Mother's Food Products, Inc., Newark, N. J.
Filed July 27, 1948, Serial No. 562,270. Published July 15, 1952. Class 46.

565,173. Dynamite, Gunpowder, Blasting-Powder, and Like Explosives. Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway.
Filed Aug. 20, 1948, Serial No. 564,256. Published July 1, 1952. Class 9.

565,174. Women's, Men's, and Children's Hats and Hat Bodies of Straw, Felt, and Fabric. Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y.
Filed Sept. 4, 1948, Serial No. 564,730. Published July 15, 1952. Class 39.

565,175. Wax Containing Liquid Cleaner Capable of Waxing an Automobile Finish Requiring Negligible Cleaning, Etc. Theodore Churchey, doing business as Churchey Products Company, Brockton, Mass.
Filed Nov. 9, 1948, Serial No. 568,426. Published Oct. 9, 1951. Class 4.

565,176. Fabric Cleaner, Cleaner for Removing Dirt and Other Foreign Matter From Painted Surfaces of Automotive Vehicles, Side Wall Tire Cleaner, Upholstery Spot Remover, and Tar Remover. Packard Motor Car Company, Detroit, Mich.
Filed Dec. 7, 1948, Serial No. 570,117. Published July 22, 1952. Class 52.

565,177. Bread. Eddy Bakeries, Inc., Helena, Mont.
Filed Nov. 15, 1948, Serial No. 570,813. Published July 22, 1952. Class 46.

565,178. Food for Livestock Fortified With Vitamins A and D. Universal Mills, Fort Worth, Tex.
Filed Jan. 6, 1949, Serial No. 571,768. Published July 15, 1952. Class 46.

565,179. Roller Skates. Chicago Roller Skate Company, Chicago, Ill.
Filed Jan. 14, 1949, Serial No. 572,162. Published July 22, 1952. Class 22.

565,180. Combination Baby Stroller, Rocker, Sled, and Walker. Har-Ken Products, Inc., Chicago, Ill.
Filed Mar. 23, 1949, Serial No. 575,908. Published June 10, 1952. Class 19.

565,181. Frozen Eviscerated Chickens. Southern States Cooperative, Incorporated, Richmond, Va.
Filed Mar. 24, 1949, Serial No. 576,020. Published July 15, 1952. Class 46.

565,182. Artificial Teeth, Dental Wax, Dental Foil, Dental Ceramic Porcelain, Etc. The Dentists' Supply Company of New York, New York, N. Y.
Filed Mar. 30, 1949, Serial No. 576,315. Published July 22, 1952. Class 44.

565,183. Spray Process Nonfat Dry Milk Solids, Roller Process Nonfat Dry Milk Solids, and Spray Whole Milk Powder. Dairy Belle Foods, Inc., Chicago, Ill.
Filed May 11, 1949, Serial No. 578,574. Published June 24, 1952. Class 46.

565,184. Motor Trucks and Buses. The White Motor Company, Cleveland, Ohio.
Filed May 11, 1949, Serial No. 578,660. Published June 10, 1952. Class 19.

565,185. Talcum Powder, Colognes, and Lipsticks. Lucien Lelong, Inc., Chicago, Ill.
Filed May 21, 1949, Serial No. 579,281. Published Aug. 5, 1952. Class 51.

565,186. Plastic Coated Sheets of a Type To Substitute for Leather. Golding Bros. Company, Inc., New York, N. Y.
Filed June 7, 1949, Serial No. 580,058. Published Apr. 22, 1952. Class 50.

565,187. Fiber Glass Liners for Thermic Jugs and Sold as Part Thereof. Poloron Products, Incorporated, New Rochelle, N. Y.
Filed July 2, 1949, Serial No. 581,496. Published July 22, 1952. Class 2.

565,188. Olive Oil. Olive Oil Industry, Inc., New York, N. Y.
Filed Aug. 8, 1949, Serial No. 583,168. Published July 15, 1952. Class 46.

565,189. Feeds Composed Principally of Grains for Horses, Mules, Dairy Cattle, Swine, and Poultry. Ferneliff Feed & Grain Co., Louisville, Ky.
Filed Sept. 6, 1949, Serial No. 584,487. Published Dec. 25, 1951. Class 46.

565,190. Wheat Flour. Pillsbury Mills, Inc., Minneapolis, Minn.
Filed Sept. 22, 1949, Serial No. 585,186. Published July 22, 1952. Class 46.

565,191. Blouses for Women and Misses. Annulette Company, New York, N. Y.
Filed Oct. 24, 1949, Serial No. 586,719. Published July 1, 1952. Class 39.

565,192. Gloves Made of Fabric. Fairfield Glove Co., Fairfield, Iowa.
Filed Nov. 16, 1949, Serial No. 587,865. Published July 1, 1952. Class 39.

565,193. Hand Grips for Manually Operated Handles. Hungerford Plastics Corporation, New Providence, N. J.
Filed Nov. 19, 1949, Serial No. 588,094. Published July 15, 1952. Class 50.

565,194. Wall Tiles. Hunter Douglas Corporation, New York, N. Y.
Filed Nov. 19, 1949, Serial No. 588,095. Published Jan. 2, 1951. Class 12.

565,195. Canned Vegetables, Candy, Coffee, and Fresh Vegetables. Paul Bunyan Foods, Inc., Seattle, Wash., Minneapolis, Minn., and Omaha, Nebr.
Filed Dec. 5, 1949, Serial No. 588,785. Published July 22, 1952. Class 46.

565,196. Mucilage. Scriptex Products Co., Inc., Philadelphia, Pa.
Filed Dec. 10, 1949, Serial No. 589,171. Published July 22, 1952. Class 5.

565,197. Bed Jackets. Donald W. Sherman, doing business as Sue-Don, Denver, Colo.
Filed Jan. 3, 1950, Serial No. 590,287. Published July 8, 1952. Class 39.

565,198. Saws. Kingsland Saw Works, Inc., Kingsland, Ga.
Filed Jan. 4, 1950, Serial No. 590,315. Published June 24, 1952. Class 23.

565,199. Table Corn Meal and All Kinds of Grain Feed for Live Stock and Poultry Feed, and Dog Food. The Herrman-McLean Company, Cleveland, Ohio.
Filed Jan. 17, 1950, Serial No. 590,979. Published July 15, 1952. Class 46.

565,200. Rough and Unfinished Granite. J. P. Gilman Granite Company, Kansas City, Kans.
Filed Jan. 26, 1950, Serial No. 591,479. Published July 15, 1952. Class 1.

565,201. Rifle and Pistol Cartridges. Olin Industries, Inc., East Alton, Ill.
Filed Feb. 7, 1950, Serial No. 592,095. Published June 17, 1952. Class 9.

565,202. Women's Coats, Suits, Dresses, Blouses, Sweaters, and Slacks. Babs Parker, Inc., Springfield, Ill.
Filed Feb. 28, 1950, Serial No. 593,188. Published Jan. 16, 1951. Class 39.

565,203. Chocolate Fig Bars. Zion Industries, Inc., Zion, Ill.
Filed Mar. 13, 1950, Serial No. 593,897. Published July 22, 1952. Class 46.

565,204. Date and Nut Bars. Zion Industries, Inc., Zion, Ill.
Filed Mar. 13, 1950, Serial No. 593,898. Published July 22, 1952. Class 46.

565,205. Butter, Shell Eggs, Cheese, Dressed Chickens, Lard, Hams, Bacon, Smoked Beef Tongues, Beef Carcasses and Portions Thereof, Veal Carcasses and Parts Thereof, Pork Sausages, Frankfurts, Bologna, Meat Loaf, and Liver Sausage. Swift & Company, doing business as White Provision Company, Chicago, Ill., and Atlanta, Ga.
Filed Apr. 11, 1950, Serial No. 595,569. Published July 22, 1952. Class 46.

565,206. Garden Hose Attachment—Namely, a Sprayer for Diluting and Applying Concentrated Liquid Fertilizer, Liquid and Powdered Plant Food, and Weed Killer. The Bradson Company, North Hollywood, Calif.
Filed Apr. 26, 1950, Serial No. 596,325. Published June 24, 1952. Class 23.

565,207. Metal Windows. Industrial Engineering Works, Trenton, N. J.
Filed May 5, 1950, Serial No. 596,923. Published July 22, 1952. Class 12.

565,208. Dairy Products—Namely, Dry Milk Solid, Fluid Milk, Fluid Buttermilk, Butter, and Fluid Chocolate Milk. Milk Producers Marketing Company, Kansas City, Kans.
Filed May 19, 1950, Serial No. 597,772. Published July 22, 1952. Class 46.

565,209. Goods in Cans, Bottles, Jars, and Packages—Namely, Tomato Catsup, Etc. Downing Taylor Company, Springfield, Mass.
Filed May 26, 1950, Serial No. 598,166. Published July 8, 1952. Class 46.

565,210. Goods in Cans, Bottles, and Jars—Namely, Baked Beans, Green Beans, Etc. Downing Taylor Company, Springfield, Mass.
Filed May 26, 1950, Serial No. 598,167. Published July 15, 1952. Class 46.

565,211. Variable Pressure Hydraulic Systems for Controlling the Operating Functions of Machines, Etc. Link-Belt Speeder Corporation, Cedar Rapids, Iowa.
Filed June 28, 1950, Serial No. 599,880. Published Mar. 18, 1952. Class 23.

565,212. Ceramic Tableware—Namely, Pansy Rings, Candy Boxes, and Relish Trays. Walter Wilson, Pasadena, Calif.
Original filed, act of 1946, Supplemental Register, July 8, 1950; amended to application, Principal Register, July 9, 1951, Serial No. 600,406. Published July 1, 1952. Class 30.

565,213. Window Units of Sliding Sash Type. Huttig Sash & Door Co., St. Louis, Mo.
Filed July 28, 1950, Serial No. 601,358. Published July 22, 1952. Class 12.

565,214. Ball and Roller Bearings. Tek Bearing Co., Inc., Bridgeport, Conn.
Filed Aug. 12, 1950, Serial No. 602,126. Published June 24, 1952. Class 23.

565,215. Biscuits, and Wafers or Cookies or Cakes. Van Melle's Biscuits- en Toffeefabrieken N. V., Rotterdam, Netherlands.
Filed Aug. 15, 1950, Serial No. 602,235. Published July 22, 1952. Class 46.

565,216. Dry Powdered Preparations or Concentrated Liquids, Jellies, Pastes and Powders Which Upon Mixing With Water or a Liquid Organic Solvent Will Form Face Creams, Hand and Body Creams and Lotions, Etc. Chemical Concentrates, Inc., New York, N. Y.
Filed Aug. 16, 1950, Serial No. 602,248. Published July 22, 1952. Class 51.

565,217. Salad Oil for Use in Salad Dressing. Clinton Foods Inc., Clinton, Iowa.
Filed Aug. 19, 1950, Serial No. 602,437. Published July 22, 1952. Class 46.

565,218. Frozen Fish. Seafood Packers Inc., Provincetown, Mass.
Filed Sept. 30, 1950, Serial No. 604,412. Published July 22, 1952. Class 46.

565,219. Handkerchiefs. Saydah & Maloof, Inc., New York, N. Y.
Filed Oct. 5, 1950, Serial No. 604,495. Published July 1, 1952. Class 39.

565,220. Hand Trucks and Dollies. Trusty Manufacturers, Inc., La Porte, Ind.
Filed Oct. 25, 1950, Serial No. 605,452. Published June 10, 1952. Class 19.

565,221. Frozen Custard Machines. Port Morris Machine & Tool Works, New York, N. Y.
Filed Oct. 27, 1950, Serial No. 605,492. Published July 1, 1952. Class 31.

565,222. Whole Sheep and Lambskin Linings. Donnell & Mudge, Inc., Salem, Mass.
Filed Oct. 31, 1950, Serial No. 605,649. Published July 22, 1952. Class 1.

565,223. Women's and Girls' Wearing Apparel—Namely, Coats and Suits, and Fur Coats, Jackets, Scarves, Capes, and Stoles. Russeks Fifth Ave., Inc., New York, N. Y.
Filed Oct. 13, 1950, Serial No. 606,192. Published July 22, 1952. Class 39.

565,224. Skimmed Milk Powder. Dairy Products Company, Inc., Birmingham, Ala.
Filed Nov. 14, 1950, Serial No. 606,368. Published July 22, 1952. Class 46.

565,225. Blasting Explosives. Shaped Charge Explosive Manufacturers, Inc., Martinsburg, W. Va.
Filed Nov. 17, 1950, Serial No. 606,570. Published July 15, 1952. Class 9.

565,226. Tea. Benjamin F. Lerch, New York, N. Y.
Filed Nov. 25, 1950, Serial No. 606,923. Published July 22, 1952. Class 46.

565,227. Women's and Children's Hosiery, Stockings, and Anklets, and for Women's Negligees, Night-Gowns, Brassières, Garter Belts, Girdles, Pajamas, Bed-Jackets, Slips, Half Slips, Panties, Gloves, Blouses, and Sweaters. Ormond Hosiery Shops, Inc., New York, N. Y., assignor to Ormond Hosiery Shops, New York, N. Y., a firm.
Filed Nov. 29, 1950, Serial No. 607,110. Published July 15, 1952. Class 39.

565,228. Tomatoes in Their Natural State. Tom-A-Toe Produce Co., Inc., Atlanta, Ga.
Filed Dec. 4, 1950, Serial No. 607,272. Published July 22, 1952. Class 46.

565,229. Chlorophyll Tablets That Are Taken Internally To Prevent Breath Odors. Ben Baker Blaze, doing business under the fictitious name and style of One-Two Sales, San Francisco, Calif.
Filed Dec. 5, 1950, Serial No. 607,283. Published June 10, 1952. Class 18.

565,230. Knitted Underwear, Union Suits, Knitted Outer Shirts, Sweaters; Sport Clothing—Namely, Pullovers, Sweat Shirts, Knickers; and Pants; Pajamas for Men, Women, and Children. Stettheimer Co., San Francisco, Calif.
Filed Dec. 28, 1950, Serial No. 608,179. Published July 15, 1952. Class 39.

565,231. Shotguns, Rifles, Cartridges, and Shotgun Shells. Aldens, Inc., Chicago, Ill.
Filed Jan. 8, 1951, Serial No. 608,485. Published June 17, 1952. Class 9.

565,232. Girls' Blouses. American Blouse Co. Inc., New York, N. Y.
Filed Jan. 9, 1951, Serial No. 608,528. Published July 1, 1952. Class 39.

565,233. Sugarless Imitation Ice Cream. Ultramix Corporation, Cleveland, Ohio.
Filed Jan. 9, 1951, Serial No. 608,575. Published July 15, 1952. Class 46.

565,234. Canned Salmon. Columbia River Packers Association, Inc., Astoria, Oreg.
Filed Jan. 15, 1951, Serial No. 608,785. Published Feb. 5, 1952. Class 46.

565,235. Women's Underwear. Fort Schuyler Knitting Company, Utica, N. Y.
Filed Jan. 17, 1951, Serial No. 608,866. Published July 22, 1952. Class 39.

565,236. Canned Tomatoes. M. P. Brothers Co., Nashville, Tenn.
Filed Jan. 18, 1951, Serial No. 608,915. Published July 8, 1952. Class 46.

565,237. Canned Vegetables. Victor Food Corporation, Victor, N. Y.
Filed Jan. 18, 1951, Serial No. 608,965. Published July 15, 1952. Class 46.

565,238. Pistols and Parts Therefor. The High Standard Manufacturing Corporation, Hamden, Conn.
Filed Jan. 24, 1951, Serial No. 609,177. Published July 8, 1952. Class 9.

565,239. Gas Mixing Apparatus for Use in the Mixing of Gases for Industrial and Other Uses, Pressure Regulators for Associated Use as a Part Thereof or Therewith, and Apparatus Designed To Dissipate or Protect Against Explosion of Such Mixture of Gases. Selas Corporation of America, Philadelphia, Pa.
Filed Jan. 29, 1951, Serial No. 609,381. Published July 1, 1952. Class 23.

565,240. Women's and Girls' Hosiery, Underwear, and Gloves. Gotham Hosiery Company, Inc., New York, N. Y.
Filed Jan. 30, 1951, Serial No. 609,406. Published July 15, 1952. Class 39.

565,241. Cleansing Compositions Having General and Specialized Uses in Industries, Public Service Institutions, Farms, and Homes. Virginia-Carolina Chemical Corporation, Richmond, Va.
Filed Feb. 6, 1951, Serial No. 609,706. Published July 22, 1952. Class 52.

565,242. Corn Chips. Filler Products, Inc., Atlanta, Ga.
Filed Feb. 20, 1951, Serial No. 610,317. Published July 22, 1952. Class 46.

565,243. Wooden Flooring. Storm Flooring Co. Inc., New York, N. Y.
Filed Feb. 20, 1951, Serial No. 610,345. Published July 15, 1952. Class 12.

565,244. Canned Fish and Canned Shellfish. Parrott & Co., San Francisco, Calif.
Filed Feb. 26, 1951, Serial No. 610,521. Published July 22, 1952. Class 46.

565,245. Fabric Woven of Paper for Making Automobile Seat Covers. Southern Mills, Inc., Atlanta, Ga.
Filed Feb. 26, 1951, Serial No. 610,527. Published July 22, 1952. Class 42.

565,246. Artificial Leather—Namely, a Product Being Made of a Composition of Prepared Materials and Simulating the Appearance of Leather. Uni-Mark, Inc., Boston, Mass.
Filed Mar. 3, 1951, Serial No. 610,809. Published July 1, 1952. Class 50.

565,247. Insecticide. Airosol Company, Inc., Neodesha, Kans.
Filed Mar. 5, 1951, Serial No. 610,815. Published July 22, 1952. Class 6.

565,248. Gummed Tape Used for Sealing Packages, Cartons, and Shipping Containers. Tape, Inc., Green Bay, Wis.
Filed Mar. 5, 1951, Serial No. 610,870. Published July 22, 1952. Class 5.

565,249. Powdered Hand Soap. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 10, 1951, Serial No. 611,165. Published July 22, 1952. Class 52.

565,250. Canned Salmon. Columbia River Packers Association, Inc., Astoria, Oreg.
Filed Mar. 16, 1951, Serial No. 611,408. Published Feb. 12, 1952. Class 46.

565,251. Bonding Kits Comprising Preformed Bonds, Welders, Flint Guns, Powder, and Coating Compound. Dresser Industries, Inc., Dallas, Tex.
Filed Mar. 19, 1951, Serial No. 611,506. Published July 22, 1952. Class 50.

565,252. Feed for Horses. Capper Laboratories, Ontario, Calif.
Filed Mar. 22, 1951, Serial No. 611,639. Published July 22, 1952. Class 46.

565,253. Absorbent Detergent Used To Absorb Oils, Greases, and Water From Floors in Garages, Factories, Machine Shops, and the Like. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Mar. 23, 1951, Serial No. 611,716. Published July 22, 1952. Class 52.

565,254. Ladies' Underwear—Namely, Panties and Slips. Allen Underwear Manufacturing Co., Inc., New York, N. Y.
Filed Mar. 26, 1951, Serial No. 611,749. Published Mar. 11, 1952. Class 39.

565,255. Cardboard Model Furniture Cut-Outs To Enable Placement and Layout of Furniture on Typical Floor Plans. Bing & Bing, Inc., New York, N. Y.
Filed Apr. 9, 1951, Serial No. 612,381. Published July 22, 1952. Class 50.

565,256. Depth Placement Fertilizer and Seeder Machines. Ezee Flow Corporation, Chicago, Ill.
Filed Apr. 11, 1951, Serial No. 612,492. Published June 24, 1952. Class 23.

565,257. Outboard Motors. The B. F. Goodrich Company, New York, N. Y., and Akron, Ohio.
Filed Apr. 12, 1951, Serial No. 612,538. Published June 24, 1952. Class 23.

565,258. Materials Handling Trucks. Marvel Industries, Inc., Skokie, Ill.
Filed Apr. 12, 1951, Serial No. 612,551. Published June 10, 1952. Class 19.

565,259. Salad Dressings, Mayonnaise, Relish Sandwich Spread, Pickles, Edible Vegetable Oils, Vegetable Oil Shortenings, and Prepared Mustard With Horse-Radish. The Best Foods, Inc., New York, N. Y.
Filed Apr. 13, 1951, Serial No. 612,583. Published July 22, 1952. Class 46.

565,260. Chemically Treated Pads for Use in Machineless Permanent Hair Waving. Vienna Beauty Products Co., Chicago, Ill.
Filed Apr. 19, 1951, Serial No. 612,878. Published July 22, 1952. Class 44.

565,261. Baby Pants. Martha Tredway, Dallas, Tex.
Filed May 5, 1951, Serial No. 613,576. Published July 8, 1952. Class 39.

565,262. Rope and Twine. C. A. Dougherty Cordage Mill, Los Dos Caminos, Estado Miranda, Venezuela.
Filed May 8, 1951, Serial No. 613,631. Published July 15, 1952. Class 7.

565,263. Synthetic Soap Powder. Sears, Roebuck and Co., Chicago, Ill.
Filed May 10, 1951, Serial No. 613,734. Published July 22, 1952. Class 52.

565,264. Weatherstrip Cement for Sealing or Attaching Rubber Weatherstrips to Doors, Etc. Autospare Mfg. Corp., Brooklyn, N. Y.
Filed May 15, 1951, Serial No. 613,864. Published July 22, 1952. Class 5.

565,265. Salt Substitute Used for Food Purposes. International Minerals & Chemical Corporation, Chicago, Ill.
Filed May 17, 1951, Serial No. 613,993. Published July 15, 1952. Class 46.

565,266. Laminated Glass. American Window Glass Company, Pittsburgh, Pa.
Filed May 18, 1951, Serial No. 614,028. Published July 1, 1952. Class 33.

565,267. Coated Fabrics and Resinous Sheet Material in the Nature of Artificial Leather. Textileather Corporation, Toledo, Ohio.
Filed May 18, 1951, Serial No. 614,072. Published July 22, 1952. Class 50.

565,268. Glue and an Adhesive Agent for Use With Insecticides and Fungicides. Armour and Company, Chicago, Ill.
Filed May 21, 1951, Serial No. 614,122. Published July 22, 1952. Class 5.

565,269. Matellasse Fabric of Cotton and Synthetic Fiber for Upholstery and Drapes. Lee Fabric Corporation, Cleveland, Ohio.
Filed May 22, 1951, Serial No. 614,209. Published July 22, 1952. Class 42.

565,270. Chemically Treated Saturated Saw Dust Contained in Tin Cans Used To Dry Clean and Wash Carpets and Carpet Materials by Applying Same Directly to the Carpet Material, Rubbing It In and Vacuuming It Off. E. S. McCann and Son, Inc., New York, N. Y., assignor to McCann-Roy, Inc., New York, N. Y., a corporation of New York.
Filed May 24, 1951, Serial No. 614,307. Published July 22, 1952. Class 52.

565,271. Margarine Type Shortening. The Miami Margarine Company, Cincinnati, Ohio.
Filed May 24, 1951, Serial No. 614,309. Published July 1, 1952. Class 46.

565,272. Children's Dresses, Boys' Suits, and Play Clothes for Boys and Girls—Namely, Overalls, Coveralls, Sunsuits, Sundresses, Shorts, Rompers, and Shirt and Romper Sets. Little Fashion Togs, New York, N. Y.
Filed May 25, 1951, Serial No. 614,351. Published July 1, 1952. Class 39.

565,273. Hosiery for Women. Grey Hosiery Mills, also doing business as Mary Grey Hosiery Mills, Bristol, Va.
Filed June 1, 1951, Serial No. 614,625. Published July 15, 1952. Class 39.

565,274. Hosiery for Women. Grey Hosiery Mills, also doing business as Mary Grey Hosiery Mills, Bristol, Va.
Filed June 1, 1951, Serial No. 614,626. Published July 15, 1952. Class 39.

565,275. China Table Ware and Oven Ware. Red-Cliff Co., Chicago, Ill.
Filed June 6, 1951, Serial No. 614,842. Published July 1, 1952. Class 30.

565,276. Dressed Poultry—Namely, Duck. Winn & Lovett Grocery Company, Jacksonville, Fla.
Filed June 6, 1951, Serial No. 614,860. Published July 22, 1952. Class 46.

565,277. Gummed Paper Tape. Levin Bros. Paper Co., Chicago, Ill.
Filed June 7, 1951, Serial No. 614,882. Published July 15, 1952. Class 5.

565,278. Disinfectant and Household and Industrial Germicidal Material in Powdered Form Containing a Chlorine or Hypochlorite. The Chemical Corporation, Springfield, Mass.
Filed June 12, 1951, Serial No. 615,049. Published July 22, 1952. Class 6.

565,279. Sea Food Sauce, the Principal Ingredients Being Ketchup, Horseradish, Chili Sauce, Celery, Parsley, Olive Oil, Wine Vinegar, Lemon Juice and Rind, White Pepper, Salt, Nutmeg, Cayenne Pepper, and Spanish Bermuda Onions. Joseph Tarasi, Harmarville, Pa.
Filed June 13, 1951, Serial No. 615,144. Published July 22, 1952. Class 46.

565,280. Product for Use as a Poultry Stuffing and Meat Dressing Consisting of Bread, Liver, Heart, and Seasoning. Lee L. Moulton, Minneapolis, Minn.
Filed June 14, 1951, Serial No. 615,186. Published July 15, 1952. Class 46.

565,281. Aerial Practice Bombs Made of Concrete. The General Tire & Rubber Company, Akron, Ohio.
Filed June 19, 1951, Serial No. 615,382. Published June 24, 1952. Class 9.

565,282. Chili Powder With Garlic, Chili Pods, Stick Cinnamon, and Barbecue Spice Mix. Gladwin A. Rogers, doing business as Vanco Products Co., Houston, Tex.
Filed June 21, 1951, Serial No. 615,501. Published July 22, 1952. Class 46.

565,283. Metal Stock in Both Coil and Flat Form From Which Venetian Blind Slats Are Made. Hunter Douglas Corporation, New York, N. Y.
Filed June 23, 1951, Serial No. 615,605. Published May 27, 1952. Class 14.

565,284. Belting. J. E. Rhoads & Sons, Philadelphia, Pa.
Filed June 26, 1951, Serial No. 615,722. Published July 22, 1952. Class 35.

565,285. Storage Batteries. Republic Battery Sales Co., Inc., Brooklyn, N. Y.
Filed June 28, 1951, Serial No. 615,851. Published Feb. 19, 1952. Class 21.

565,286. Lapel Buttons, Lapel Pins, Badges, Cuff Links, Belt Buckles, Tie Pins, Tie Clasps, Etc. Supreme Council, Mystic Order Veiled Prophets of the Enchanted Realm, Chicago, Ill.
Filed June 29, 1951, Serial No. 615,911. Published July 1, 1952. Class 28.

565,287. Detergent and Dry Cleaning Compound for Removing Smoke and Other Odors From Garments. Emery Industries, Inc., Cincinnati, Ohio.
Filed June 29, 1951, Serial No. 615,922. Published July 22, 1952. Class 52.

565,288. Cookies. Robert A. Johnston Company, Milwaukee, Wis.
Filed July 2, 1951, Serial No. 615,981. Published July 22, 1952. Class 46.

565,289. Candy Bars. Rolla Alderson, doing business as Alderson Candy Shop, Denver, Colo.
Filed July 5, 1951, Serial No. 616,068. Published Nov. 20, 1951. Class 46.

565,290. Artists' Brushes, Soft Hair Brushes, Paint Brushes. John D. Kappeler, trading as Bergen Brush Supplies, Lyndhurst, N. J.
Filed July 18, 1951, Serial No. 616,636. Published July 22, 1952. Class 29.

565,291. Knitting Yarn. McComb Manufacturing Company, McComb, Miss.
Filed July 26, 1951, Serial No. 616,959. Published July 1, 1952. Class 43.

565,292. Paper Bags. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed July 26, 1951, Serial No. 616,984. Published July 22, 1952. Class 2.

565,293. Paper Bags. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed July 26, 1951, Serial No. 616,986. Published July 22, 1952. Class 2.

565,294. All Purpose Core and Mold Binders. Sorbo Foundry Products Company, St. Louis, Mo.
Filed Aug. 3, 1951, Serial No. 617,320. Published July 22, 1952. Class 5.

565,295. Combination Cleaning and Polishing Preparation for Fabric and Painted Surfaces. Cee-Bee Chemical Co., Inc., Los Angeles, Calif.
Filed Aug. 4, 1951, Serial No. 617,335. Published July 22, 1952. Class 4.

565,296. Watch Bracelets (Not Including Watches.) Speidel Corporation, Providence, R. I.
Filed Aug. 17, 1951, Serial No. 617,820. Published June 24, 1952. Class 28.

565,297. Wrist Watch Bracelets. Mira-Flex Watchband Corporation, New York, N. Y.
Filed Aug. 20, 1951, Serial No. 617,883. Published June 24, 1952. Class 28.

565,298. Explosive Fuses. Imperial Chemical Industries Limited, London and Millbank, London, England.
Filed Aug. 22, 1951, Serial No. 617,963. Published June 17, 1952. Class 9.

565,299. Finger Rings. J. R. Wood & Sons, Inc., New York, N. Y.
Filed Sept. 5, 1951, Serial No. 618,429. Published July 1, 1952. Class 28.

565,300. Ravioli, Grated Cheese, Prepared Spaghetti With Tomato Sauce and Meat Balls, a Combination Package, Etc. M & C Foods, Inc., Chicago, Ill.
Filed Sept. 6, 1951, Serial No. 618,459. Published July 22, 1952. Class 46.

565,301. Liquid Adhesive Cement Containing Natural Rubber for Use by Artists, Draftsmen, Printers, Engravers, and Photographers and for General Paper Use. Bradstone Rubber Company, doing business under the name of Park Cement & Chemical Co., Woodbine, N. J.
Filed Sept. 14, 1951, Serial No. 618,782. Published July 22, 1952. Class 5.

565,302. Sheet Glass. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Sept. 14, 1951, Serial No. 618,814. Published July 1, 1952. Class 33.

565,303. Acrylic Resin for Dental Uses, Curing at Room Temperature. Gebr. de Trey Aktiengesellschaft, Zurich, Switzerland.
Filed Sept. 20, 1951, Serial No. 619,013. Published July 22, 1952. Class 44.

565,304. Woven Rugs. Gerard J. Kluyskens, New York, N. Y.
Filed Sept. 27, 1951, Serial No. 619,299. Published July 22, 1952. Class 42.

565,305. Adhesive Cements. Monsanto Chemical Company, St. Louis, Mo.
Filed Oct. 1, 1951, Serial No. 619,467. Published July 22, 1952. Class 5.

565,306. Adhesive Cements. Monsanto Chemical Company, St. Louis, Mo.
Filed Oct. 1, 1951, Serial No. 619,468. Published July 22, 1952. Class 5.

565,307. Rubber Mats. The Campomat Rubber Co., Inc., Brooklyn, N. Y.
Filed Oct. 2, 1951, Serial No. 619,497. Published July 8, 1952. Class 50.

565,308. Vitamin Preparation. Parke, Davis & Company, Detroit, Mich.
Filed Oct. 2, 1951, Serial No. 619,516. Published May 27, 1952. Class 18.

565,309. Bags, Merchandise Envelopes, Boxes, and Cartons Made of Paper and Synthetic Plastic Stock. Central States Paper & Bag Co., St. Louis, Mo.
Filed Oct. 5, 1951, Serial No. 619,601. Published July 22, 1952. Class 2.

565,310. Corsets, Brassières, and Foundation Garments. The Dora Miles Company, Branford, Conn.
Filed Oct. 8, 1951, Serial No. 619,706. Published July 22, 1952. Class 39.

565,311. Sedative Expectorant for Human Use. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,783. Published June 10, 1952. Class 18.

565,312. Veterinary Intravenous Anesthetic Agent. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,784. Published June 10, 1952. Class 18.

565,313. Preparation for the Treatment of Heartworms (*Dirofilaria immitis*) in Dogs. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,786. Published June 10, 1952. Class 18.

565,314. Preparation for the Treatment of Patients With Psychic Fatigue, Mental Depression, Malaise, Muscular Weakness, Neurasthenia, and General Nutritional Inadequacy. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,787. Published June 10, 1952. Class 18.

565,315. Preparation Indicated for the Relief of Spasmodic Conditions. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,788. Published June 10, 1952. Class 18.

565,316. Diphtheria and Tetanus Toxoids and Pertussis Vaccine. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,789. Published June 10, 1952. Class 18.

565,317. Veterinary Preparation for Intramammary Application in Mastitis. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,790. Published June 10, 1952. Class 18.

565,318. Veterinary Preparation for Treatment of Cattle Suffering From Tympany (Bloat) of the Rumen. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,791. Published June 10, 1952. Class 18.

565,319. Veterinary Preparation Used as a Rumen Stimulant, Carminative and Antacid. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,792. Published June 10, 1952. Class 18.

565,320. Veterinary Preparation Containing Sodium Sulfamerazine and Sodium Sulfapyridine. Allied Laboratories, Inc., Kansas City, Mo.
Filed Oct. 10, 1951, Serial No. 619,793. Published June 10, 1952. Class 18.

565,321. Knitted and Woven Fabrics Made of Wool, Other Animal Fibers, Silk, Cotton, Synthetic Fibers, or Any Combination Thereof, Sold in the Piece. Dy-Co Mills, Inc., Norwood, N. J.
Filed Oct. 18, 1951, Serial No. 620,148. Published July 22, 1952. Class 42.

565,322. Knitted and Woven Fabrics Made of Wool, Other Animal Fibers, Silk, Cotton, Synthetic Fibers, or Any Combination Thereof, Sold in the Piece. Dy-Co Mills, Inc., Norwood, N. J.
Filed Oct. 18, 1951, Serial No. 620,149. Published July 22, 1952. Class 42.

565,323. Lawn Seed Mixture. Lee Patten Seed Company, Jersey City, N. J.
Filed Oct. 23, 1951, Serial No. 620,362. Published July 22, 1952. Class 1.

565,324. Custom Made Porcelain Caps or Crowns and Porcelain Bridgework Built From Porcelain Powder, Etc. Peter Rothwell, doing business as Rothwell Ceramic Laboratory, Buffalo, N. Y.
Filed Oct. 24, 1951, Serial No. 620,436. Published July 22, 1952. Class 44.

565,325. Ceramic Coated Exhaust Structures for Internal Combustion Engines—Namely, Exhaust Manifolds and Parts Therefor, Etc. Solar Aircraft Company, San Diego, Calif.
Filed Oct. 25, 1951, Serial No. 620,474. Published June 24, 1952. Class 23.

565,326. Fresh Eggs. Roy G. Marriott, doing business under the trade name Graded Egg Co., Perry, Okla.
Filed Oct. 26, 1951, Serial No. 620,518. Published June 17, 1952. Class 46.

565,327. Cotton Fabric in the Piece. Chicopee Mills, Inc., New York, N. Y.
Filed Nov. 2, 1951, Serial No. 620,800. Published July 22, 1952. Class 42.

565,328. Firecrackers. Balfour, Guthrie & Co., Limited, San Francisco, Calif.
Filed Nov. 7, 1951, Serial No. 620,949. Published June 17, 1952. Class 9.

565,329. Ceramic Coated Exhaust Structures for Internal Combustion Engines—Namely, Exhaust Manifolds and Parts Therefor, Etc. Solar Aircraft Company, San Diego, Calif.
Filed Nov. 7, 1951, Serial No. 620,975. Published June 24, 1952. Class 23.

565,330. Grooved Phonograph Records. "400" Records, Inc., New York, N. Y.
Filed Nov. 9, 1951, Serial No. 621,059. Published July 8, 1952. Class 36.

565,331. Waterproof and Treated Leather. Independent Leather Manufacturing Co., Inc., Gloversville, N. Y.
Filed Nov. 10, 1951, Serial No. 621,104. Published July 22, 1952. Class 1.

565,332. Poultry and Live Stock Feed Composed of Cereal Grains and Other Ingredients. Staley Milling Company, North Kansas City, Mo.
Filed Nov. 10, 1951, Serial No. 621,107. Published June 17, 1952. Class 46.

565,333. Women's Hosiery. Stillman Hosiery Mills Co., Philadelphia, Pa.
Filed Nov. 16, 1951, Serial No. 621,340. Published July 8, 1952. Class 39.

565,334. Fabrics of Cotton, Wool, Silk, Linen and Synthetic Fibers and Mixtures Thereof. The Duplan Corporation, New York, N. Y.
Filed Nov. 21, 1951, Serial No. 621,507. Published July 22, 1952. Class 42.

565,335. Fuller's Earth Having Oil and Grease Absorbent Properties. Speedi-Dri Corporation, Philadelphia, Pa.
Filed Nov. 21, 1951, Serial No. 621,531. Published July 22, 1952. Class 1.

565,336. Edible Vegetable Oils. A. E. Staley Manufacturing Company, Decatur, Ill.
Filed Nov. 21, 1951, Serial No. 621,532. Published Apr. 1, 1952. Class 46.

565,337. Blankets. Shuler & Benninghofen, Hamilton, Ohio.
Filed Nov. 23, 1951, Serial No. 621,585. Published July 22, 1952. Class 42.

565,338. Ladies' Hosiery. Textile Distributors, Inc., Thomasville, N. C.
Filed Nov. 27, 1951, Serial No. 621,737. Published July 15, 1952. Class 39.

565,339. Cotton Piece Goods. Avondale Mills, Sylacauga, Ala.
Filed Nov. 30, 1951, Serial No. 621,855. Published July 22, 1952. Class 42.

565,340. Cheddar Cheese and Limburger Cheese. The Borden Company, New York, N. Y.
Filed Dec. 1, 1951, Serial No. 621,939. Published July 15, 1952. Class 46.

565,341. Textile Fabrics Woven of Cotton, Wool, and Synthetic Fibers, and of Mixtures Thereof. Brand & Oppenheimer Incorporated, New York, N. Y.
Filed Dec. 1, 1951, Serial No. 621,940. Published July 22, 1952. Class 42.

565,342. Hosiery for Women. Julius Kayser & Co., New York, N. Y.
Filed Dec. 1, 1951, Serial No. 621,969. Published July 15, 1952. Class 39.

565,343. Hosiery for Women. Julius Kayser & Co., New York, N. Y.
Filed Dec. 1, 1951, Serial No. 621,970. Published July 15, 1952. Class 39.

565,344. Women's Hosiery. Burlington Mills Corporation, Greensboro, N. C.
Filed Dec. 4, 1951, Serial No. 622,065. Published July 15, 1952. Class 39.

565,345. Discs of Hickory Wood in Its Natural State Adapted To Be Added to Open Fires Used in Barbecuing Meats. Glenn A. Jolliffe, doing business as Hicoria Hickory Company, Knob Fork, W. Va.
Filed Dec. 4, 1951, Serial No. 622,076. Published July 22, 1952. Class 1.

565,346. Toilet Lotions. Hilda M. Musser, Union Dale, Pa.
Filed Dec. 4, 1951, Serial No. 622,087. Published July 22, 1952. Class 51.

565,347. Bibs for Children. Donovan Enterprises, Saugatuck, Conn.
Filed Dec. 6, 1951, Serial No. 622,147. Published July 15, 1952. Class 39.

565,348. Bibs for Children. Donovan Enterprises, Saugatuck, Conn.
Filed Dec. 6, 1951, Serial No. 622,149. Published July 15, 1952. Class 39.

565,349. Liquid Metal Cleaner for Use in Cleaning Silverware, Sterling Silver, Copper Utensils, Brass, Gold, Precious and Costume Jewelry, Etc. Empire Chemical Company, Inc., Houston, Tex.
Filed Dec. 7, 1951, Serial No. 622,208. Published July 22, 1952. Class 52.

565,350. Cosmetic Preparations—Namely, Hand Creams, and Body Deodorants for Personal Use. Jules Montenier, Chicago, Ill.
Filed Dec. 8, 1951, Serial No. 622,267. Published July 22, 1952. Class 51.

565,351. Men's and Boys' Underwear—Namely, Shorts. Cooper's, Incorporated, Kenosha, Wis.
Filed Dec. 12, 1951, Serial No. 622,380. Published July 15, 1952. Class 39.

565,352. Salad Dressing. Lisa's Food Product Company, Hollywood, Fla.
Filed Dec. 12, 1951, Serial No. 622,393. Published July 22, 1952. Class 46.

565,353. Baby Panties. Perfect Bloomer Co., Brooklyn, N. Y.
Filed Dec. 12, 1951, Serial No. 622,404. Published July 15, 1952. Class 39.

565,354. Railway Car Trucks and the Component Parts of Such Trucks. The Buckeye Steel Castings Company, Columbus, Ohio.
Filed Dec. 13, 1951, Serial No. 622,426. Published June 10, 1952. Class 19.

565,355. Synthetic Polyelectrolyte Soil Conditioning Agent. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 13, 1951, Serial No. 622,449. Published July 1, 1952. Class 10.

565,356. Children's Playsuits and Pajamas. Famous Bathrobe Co., Inc., New York, N. Y.
Filed Dec. 15, 1951, Serial No. 622,530. Published July 15, 1952. Class 39.

565,357. Dressed Poultry, Fresh Eggs, and Frozen Eggs. Vilas & Company, Storm Lake, Iowa.
Filed Dec. 15, 1951, Serial No. 622,568. Published July 22, 1952. Class 46.

565,358. Respirator and Mask Attachments in the Form of Fabric Linings Surrounding the Face-Contacting Portions of the Respirator or Mask. Willson Products, Inc., Reading, Pa.
Filed Dec. 15, 1951, Serial No. 622,571. Published July 22, 1952. Class 44.

565,359. Airplanes. McDonnell Aircraft Corporation, Lambert Field, Mo.
Filed Dec. 19, 1951, Serial No. 622,668. Published June 3, 1952. Class 19.

565,360. Women's Hosiery. Emil Rowen Company, Philadelphia, Pa.
Filed Dec. 19, 1951, Serial No. 622,679. Published July 15, 1952. Class 39.

565,361. Key Pads for Woodwind Musical Instruments. C. G. Conn, Ltd., Elkhart, Ind.
Filed Dec. 22, 1951, Serial No. 622,768. Published July 8, 1952. Class 36.

565,362. Dried Solids of Ammonia Base Waste Sulfite Liquor, for Use as a Fertilizer and Soil Conditioner. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Dec. 26, 1951, Serial No. 622,809. Published July 1, 1952. Class 10.

565,363. Girls' Dresses, Pinafores, Skirts, Jumpers, Playsuits, Slacks, Jerkins, Blouses, and Suits. Riegel & Dechter Inc., New York, N. Y.
Filed Dec. 28, 1951, Serial No. 622,955. Published July 1, 1952. Class 39.

565,364. Girls' Dresses, Pinafores, Skirts, Jumpers, Playsuits, Slacks, Jerkins, Blouses, and Suits. Riegel & Dechter Inc., New York, N. Y.
Filed Dec. 28, 1951, Serial No. 622,956. Published July 1, 1952. Class 39.

565,365. Synthetic Resinous Polyelectrolyte Soil Conditioning Agent. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 29, 1951, Serial No. 623,002. Published July 1, 1952. Class 10.

565,366. Synthetic Resinous Polyelectrolyte Soil Conditioning Agent. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 29, 1951, Serial No. 623,003. Published July 1, 1952. Class 10.

565,367. Liquid Fertilizer. The Dow Chemical Company, Midland, Mich.
Filed Jan. 2, 1952, Serial No. 623,047. Published July 8, 1952. Class 10.

565,368. Upholstery Fabrics of Wool, Cotton, Mohair, and Synthetic Fibers, of Plastic and Synthetic Yarns, and of Mixtures Thereof. Collins & Aikman Corporation, New York, N. Y.
Filed Jan. 4, 1952, Serial No. 623,185. Published July 22, 1952. Class 42.

565,369. Yarns Spun of Synthetic and Cotton Fibers. Aberfoyle Manufacturing Company, Philadelphia, Pa.
Filed Jan. 5, 1952, Serial No. 623,230. Published July 15, 1952. Class 43.

565,370. Yarns. Botany Mills, Inc., Passaic, N. J.
Filed Jan. 5, 1952, Serial No. 623,233. Published July 1, 1952. Class 43.

565,371. Brassières. Biflex Foundations, Inc., New York, N. Y.
Filed Jan. 8, 1952, Serial No. 623,298. Published July 8, 1952. Class 39.

565,372. Rope, Binder, Baler, and Wrapping String Made From Hard Fibers, Such as, Manila, Sisal, and Henequen Fiber. Cordelería Santa Ines, S. A., Merida, Mexico.
Filed Jan. 10, 1952, Serial No. 623,403. Published July 15, 1952. Class 7.

565,373. Hair Nets. Jordan Marsh Company, Boston, Mass.
Filed Jan. 10, 1952, Serial No. 623,418. Published July 8, 1952. Class 39.

565,374. Ladies' and Misses' Slips, Negligees, Negligee Ensembles, and Nightgowns. Sam Landau, New York, N. Y.
Filed Jan. 10, 1952, Serial No. 623,421. Published July 8, 1952. Class 39.

565,375. Chemical Composition Used as a Brightener in Electroplating Solutions. Hanson-Van Winkle-Munning Company, Matawan, N. J.
Filed Jan. 16, 1952, Serial No. 623,654. Published July 22, 1952. Class 6.

565,376. Detergents Used for Cleaning Metal Surfaces. Finger Lakes Chemical Company, Inc., Etna, N. Y.
Filed Jan. 18, 1952, Serial No. 623,756. Published July 22, 1952. Class 52.

565,377. Brassières, Girdles, Corselets, and Foundation Garments. Even-Pul Foundations, Inc., New York, N. Y.
Filed Jan. 19, 1952, Serial No. 623,794. Published July 15, 1952. Class 39.

565,378. Cordage Items—Namely, Hay Baler Twine, Binder Twine, Cotton Twine, Jute Twine, Sisal Twine. Frank W. Winne & Son, Inc., Philadelphia, Pa.
Filed Jan. 21, 1952, Serial No. 623,864. Published July 15, 1952. Class 7.

565,379. Fertilizers. Monsanto Chemical Company, St. Louis, Mo.
Filed Jan. 24, 1952, Serial No. 624,043. Published July 1, 1952. Class 10.

565,380. Cocoa. Hershey Chocolate Corporation, Hershey, Pa.
Filed Jan. 31, 1952, Serial No. 624,336. Published July 15, 1952. Class 46.

565,381. Processed Deodorized Edible Vegetable Oil. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Feb. 7, 1952, Serial No. 624,658. Published June 17, 1952. Class 46.

565,382. Sealing Tapes of Laminated Kraft Paper Provided on One Face With an Adhesive or Gummed Surface. Stocker Manufacturing Company, Netcong, N. J.
Filed Feb. 14, 1952, Serial No. 624,978. Published July 22, 1952. Class 5.

565,383. General Detergent Concentrate. Peck's Products Company, St. Louis, Mo.
Filed Feb. 15, 1952, Serial No. 625,027. Published July 22, 1952. Class 52.

565,384. Woolen Piece Goods. Miron Mills, Inc., Clinton, Mass.
Filed Mar. 7, 1952, Serial No. 626,099. Published July 22, 1952. Class 42.

565,385. Preparation for Vitalizing and Preserving the Life of Cut Flowers, and Adapted to Be Added to Water in Which the Flower Stems Are Immersed. General Floral Products Co., Inc., Winchester, Mass.
Filed Mar. 8, 1952, Serial No. 626,160. Published July 15, 1952. Class 10.

565,386. Musical Singing Bird Boxes, Musical Singing Bird Cages and Musical Whistling Figures Wherein the Music Is Produced by Bellows and Air on Reeds. Kende Sales Corp., New York, N. Y.
Filed Apr. 9, 1952, Serial No. 627,420. Published July 22, 1952. Class 36.

565,387. Soil Conditioning Agents. Monsanto Chemical Company, St. Louis, Mo.
Filed Apr. 3, 1952, Serial No. 627,520. Published July 22, 1952. Class 10.

Service Marks

565,388. Renting on a Contract Basis Electric Meat Saws and Slicers, Hand Meat Saws, Meat Choppers, Electric Grinding Machines, Band Saws, Cutter Blades, and Knife Holders, Used by Butchers, Meat Packers, and Meat Processors in Their Respective Businesses and Establishments. Atlantic Service Co., Inc., Brooklyn, N. Y.
Filed May 4, 1949, Serial No. 578,188. Published July 22, 1952. Class 100.

565,389. Lecturing on Experiences, Places, and Events of Interest Throughout the World Through the Medium of Radio and Television Broadcast Programs. World Adventure Series, Incorporated, Detroit, Mich.
Filed Oct. 25, 1949, Serial No. 586,831. Published July 22, 1952. Class 107.

565,390. Recording Sound in Synchronism With the Photographing of Motion Pictures. Jerry Fairbanks, Inc., Hollywood, Calif.
Filed Apr. 17, 1950, Serial No. 595,832. Published July 22, 1952. Class 107.

565,391. Collecting Through Research Study, Investigation, Group Meetings, and Other Appropriate Means, Information in the Field of Scientific Management and the Distribution of Such Information to the Public. The Society for the Advancement of Management, Inc., New York, N. Y.
Filed May 20, 1950, Serial No. 597,849. Published July 22, 1952. Class 100.

565,392. Finishing Hosiery by Boarding, Pre-Boarding, Dyeing, and Shrinking Such Hosiery. Rex Hosiery Finishers, Inc., Philadelphia, Pa.
Filed Nov. 8, 1950, Serial No. 606,086. Published July 22, 1952. Class 106.

565,393. Finishing Hosiery by Boarding, Pre-Boarding, Dyeing, and Shrinking Such Hosiery. Rex Hosiery Finishers, Inc., Philadelphia, Pa.
Filed Nov. 8, 1950, Serial No. 606,087. Published July 22, 1952. Class 106.

565,394. Vocal and Instrumental Musical Entertainment Services Presented Through the Medium of Radio and Television Broadcasts, Recordings, Motion Pictures With Sound, and Personal Appearance Performances. Gean Greenwell, New York, N. Y.
Filed Dec. 28, 1950, Serial No. 608,161. Published July 22, 1952. Class 107.

Collective Marks

565,395. Advancement of Medical Science and Establishing and Maintaining Membership in the Organization. Alpha Kappa Kappa Fraternity, Columbus, Ohio.
Filed Jan. 10, 1950, Serial No. 590,573. Published July 22, 1952. Class 100.

565,396. Establishment and Maintenance of Membership in a National Collegiate Sorority. Alpha Omicron Pi, Oxford, Ohio.
Filed Sept. 28, 1950, Serial No. 604,134. Published July 22, 1952. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

565,397. (Class 46. Foods and Ingredients of Foods.) Eastern Shore Canning Co., Inc., Machipongo, Va. Original filed, act of 1946, Principal Register, Aug. 30, 1948; amended to application, Supplemental Register, Apr. 18, 1952, Serial No. 567,339.

EasternShore

Applicant claims ownership of Registration No. 342,381.
For Canned Vegetables.
Claims use since August 1930.

565,398. (Class 46. Foods and Ingredients of Foods.) Consumers Cooperative Association, Kansas City, Mo. Original filed, act of 1946, Principal Register, Oct. 21, 1948; amended to application, Supplemental Register, Apr. 15, 1952, Serial No. 567,390.

NILE VALLEY

For Canned Vegetables.
Claims use since Sept. 1, 1948.

565,399. (Class 51. Cosmetics and Toilet Preparations.) Jules Montenier, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 19, 1948; amended to application, Supplemental Register, Apr. 15, 1952, Serial No. 569,086.



For Body Antiperspirant and Deodorant Preparations.
Claims use since June 26, 1947.

565,400. (Class 2. Receptacles.) Atlas Plywood Corporation, Boston, Mass. Original filed, act of 1946, Principal Register, Mar. 3, 1949; amended to application, Supplemental Register, Mar. 28, 1950, Serial No. 574,808.

PLY-FOLD

For Wooden and Paper-Board Packing and Shipping Cases.
Claims use since Feb. 24, 1949.

565,401. (Class 46. Foods and Ingredients of Foods.) The O. P. Baur Confectionery Company, Denver, Colo. Original filed, act of 1946, Principal Register, Apr. 11, 1949; amended to application, Supplemental Register, Sept. 10, 1951, Serial No. 576,895.

Candies of DISTINCTION

For Candies.
Claims use since 1946.

565,402. (Class 37. Paper and Stationery.) Florez, Incorporated, Detroit, Mich. Original filed, act of 1946, Principal Register, May 23, 1949; amended to application, Supplemental Register, Aug. 2, 1952, Serial No. 579,313.

Flok-Tite

For Mounting Paper for Presentation Boards.
Claims use since Mar. 31, 1949.

565,403. (Class 38. Prints and Publications.) Cycling Press, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 21, 1949; amended to application, Supplemental Register, Oct. 9, 1950, Serial No. 586,625.

MONTHLY BULLETIN SECTION
of the
NATL. BICYCLE DEALERS' ASSN.

For Section in a Periodical.
Claims use since Aug. 17, 1949.

565,404. (Class 12. Construction Materials.) William H. Calder, doing business as Calder Manufacturing Company, Lancaster, Pa. Filed Oct. 24, 1949, Serial No. 587,988.

Calder Wedge Tight Overhead Garage Doors

For Doors.
Claims use since Sept. 30, 1948.

565,405. (Class 107. Education and Entertainment.) Sundial Broadcasting Corporation, Sausalito and Mount Beacon, Sausalito, Calif. Original filed, act of 1946, Principal Register, Nov. 21, 1949; amended to application, Supplemental Register, Dec. 7, 1951, Serial No. 588,152. SERVICE MARK.

Musicast

For Radio Broadcasting of Background Music to Commercial and Professional Organizations.
Claims use since Sept. 1, 1949.

565,406. (Class 15. Oils and Greases.) Fred W. Thaison, doing business as Lubricating Gasoline Co., Houston, Tex. Original filed, act of 1946, Principal Register, Oct. 20, 1949; amended to application, Supplemental Register, Sept. 18, 1951, Serial No. 588,987.

For Motors Sake" use
LUBRICATING
GAS·O·LINE
ADMIXTURE

For Specially Prepared Chemical Compound To Be Used as an Admixture in Treating Gasoline, Blended Gasoline, Motor Fuels, and Motor Fuel Compounds.
Claims use since June 1931.

565,407. (Class 12. Construction Materials.) Knighton Franchise Distributing Company, Birmingham, Ala. Original filed, act of 1946, Principal Register, Dec. 9, 1949; amended to application, Supplemental Register, Mar. 24, 1952, Serial No. 589,096.



For Concrete Blocks.
Claims use since Jan. 15, 1949.

565,408. (Class 12. Construction Materials.) Minnesota and Ontario Paper Company, Minneapolis, Minn. Original filed, act of 1946, Principal Register, Feb. 3, 1950; amended to application, Supplemental Register, June 12, 1952, Serial No. 591,944.

LUSTERLITE

Applicant claims ownership of Registrations Nos. 369,022, 322,084, and 387,134.
For Surface Coated Fiber Composition Board and Fiberboard Tile for Interior Use.
Claims use since Jan. 3, 1950.

565,409. (Class 38. Prints and Publications.) Donald R. Brann, doing business as Easi-Bild Pattern Company, Pleasantville, N. Y. Original filed, act of 1946, Principal Register, Mar. 11, 1950; amended to application, Supplemental Register, June 14, 1952, Serial No. 593,778.

Easi-Bild
BUILD IT YOURSELF
Pattern Book

Applicant claims ownership of Registration No. 519,855.
For Pattern Books Published in a Series.
Claims use since June 1, 1946.

565,410. (Class 51. Cosmetics and Toilet Preparations.) Clairol Incorporated, Stamford, Conn. Original filed, act of 1946, Principal Register, May 20, 1950; amended to application, Supplemental Register, Apr. 26, 1952, Serial No. 597,813.

HAIR COLOR BATH

The drawing is lined for the colors red and blue.
For Hair Tinting and Coloring Preparations.
Claims use since Mar. 1, 1950.

565,411. (Class 38. Prints and Publications.) The Meyercord Co., Chicago, Ill. Original filed, act of 1946, Principal Register, May 26, 1950; amended to application, Supplemental Register, May 17, 1952, Serial No. 598,196.

Fuson

For Decalcomanias.
Claims use since Mar. 7, 1950.

565,412. (Class 38. Prints and Publications.) Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware. Original filed, act of 1946, Principal Register, June 29, 1950; amended to application, Supplemental Register, June 17, 1952, Serial No. 599,926.

CARPET YARNS

For Page Feature Published in a Bi-Monthly House Organ.
Claims use since July 1949; and since Apr. 15, 1950, in the lettering shown.

565,413. (Class 12. Construction Materials.) Norman Aluminum Window Co. Inc., Jamaica, N. Y. Original filed, act of 1946, Principal Register, July 1, 1950; amended to application, Supplemental Register, July 17, 1951, Serial No. 600,140.

Nu-Seal

For Windows and Doors.
Claims use since May 24, 1950.

565,414. (Class 38. Prints and Publications.) Fisherman Press, Inc., Oxford, Ohio, by change of name from Midwest Fisherman, Inc. Original filed, act of 1946, Principal Register, Sept. 13, 1950; amended to application, Supplemental Register, June 18, 1952, Serial No. 603,491.

MIDWEST
FISHERMAN

For Periodical Publication Devoted to Fishing.
Claims use since June 10, 1950.

565,415. (Class 18. Medicines and Pharmaceutical Preparations.) S. T. S. Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Sept. 20, 1950; amended to application, Supplemental Register, Oct. 19, 1951, Serial No. 603,818.

ODORBAN

For Body and Breath Deodorant in Tablet Form, Taken Orally.
Claims use since Aug. 10, 1950.

565,416. (Class 28. Jewelry and Precious-Metal Ware.) Joseph Lerner & Son, Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Oct. 16, 1950; amended to application, Supplemental Register, Dec. 21, 1951, Serial No. 604,974.



For Hollow Ware—Namely, Candy Dishes, Relish Dishes, Platters, Trays, Serving Pieces, Silent Butlers, Tea Pots, Coffee Pots, Hot Water Kettles, Cocktail Shakers, Sugars and Creamers, Vegetable Dishes, Well and Trees, Duo Entrees, Which Are Large Platters With Central Serving Compartments and End Vegetable Receptacles, Racks to Hold Toasted Bread, Ice Vaults, Hostess Trays, Candelabra, and Condiment Sets, All of Said Goods Made in Whole or in Part of Silver-Plated Base Metal.
Claims use since Mar. 16, 1950.

565,417. (Class 18. Medicines and Pharmaceutical Preparations.) Manhattan Drug Company, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Oct. 18, 1950; amended to application, Supplemental Register, June 18, 1952, Serial No. 605,103.

GUMJEL

For Anesthetic and Antiseptic Salve for the Treatment of Sore Gums.
Claims use since June 15, 1950.

565,418. (Class 18. Medicines and Pharmaceutical Preparations.) Manhattan Drug Company, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Oct. 18, 1950; amended to application, Supplemental Register, June 24, 1952, Serial No. 605,104.

NERVTABS

For Sedative Tablets for the Relief of Simple Nervous Sleeplessness and Restlessness.
Claims use since May 15, 1950.

565,419. (Class 46. Foods and Ingredients of Foods.) Netherland American Trading Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 23, 1950; amended to application, Supplemental Register, Nov. 29, 1951, Serial No. 605,326.

Delft

For Cooked Ham.
Claims use since Sept. 14, 1950.

565,420. (Class 51. Cosmetics and Toilet Preparations.) Vigny, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 28, 1950; amended to application, Supplemental Register, May 23, 1952, Serial No. 607,059.



For Perfumes, Toilet Waters, Face Lotions, Face Creams, Face Powders, Rouges, and Lipsticks.
Claims use since June 1921.

565,421. (Class 46. Foods and Ingredients of Foods.) Joe Lowe Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 14, 1951; amended to application, Supplemental Register, Apr. 14, 1952, Serial No. 612,659.

Tasti-Fudge

For Frozen Confections-on-Sticks, Liquid Syrups and Dry Powdered Concentrates for Making the Same.
Claims use since Mar. 29, 1951.

565,422. (Class 46. Foods and Ingredients of Foods.) C. Osborn & Company Limited, London, England. Original filed, act of 1946, Principal Register, June 22, 1951; amended to application, Supplemental Register, June 4, 1952, Serial No. 615,568.

THE GENTLEMAN'S RELISH

Applicant claims ownership of Registration No. 540,748.
For Anchovy Paste.
Claims use since July 1873 and since Jan. 1, 1919 in commerce between the United States and the United Kingdom of Great Britain and Northern Ireland.

565,423. (Class 38. Prints and Publications.) The Spice Mill Publishing Co., New York, N. Y. Original filed, act of 1946, Principal Register, June 25, 1951; amended to application, Supplemental Register, May 22, 1952, Serial No. 615,660.

COFFEE & TEA INDUSTRIES
and the flavor lives

Applicant claims ownership of Registration No. 363,599.
For Monthly Trade Publication.
Claims use since January 1951.

565,424. (Class 38. Prints and Publications.) The Technical Publishing Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, July 11, 1951; amended to application, Supplemental Register, July 1, 1952, Serial No. 616,344.

PRECISION METAL MOLDING

For Publication Published Monthly or From Time to Time, the Subject Matter of Which Is Directed to Precision Metal Molding.
Claims use since on or about June 26, 1951.

565,425. (Class 38. Prints and Publications.) The Sporting Goods Publishing Company, St. Louis, Mo. Original filed, act of 1946, Principal Register, July 20, 1951; amended to application, Supplemental Register, June 24, 1952, Serial No. 616,730.

TERSE TALES of the TRADE

For Monthly Columns in Trade Publication.
Claims use since November 1949.

565,426. (Class 21. Electrical Apparatus, Machines, and Supplies.) Nutone, Inc., Cincinnati, Ohio. Original filed, act of 1946, Principal Register, July 27, 1951; amended to application, Supplemental Register, July 17, 1952, Serial No. 617,051.

PUSH-LITE

For Electrically Illuminated Push Buttons for Use in Conjunction With Illuminated Name Plates and House Numbers To Ring a Doorbell.
Claims use since July 9, 1951.

565,427. (Class 16. Protective and Decorative Coatings.) Pabco Products Inc., San Francisco, Calif. Original filed, act of 1946, Principal Register, Aug. 27, 1951; amended to application, Supplemental Register, Feb. 25, 1952, Serial No. 618,123.

California Original

For Wall Paint and Enamels.
Claims use since August 1950.

565,428. (Class 29. Brooms, Brushes, and Dusters.) Laitner Brush Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Sept. 4, 1951; amended to application, Supplemental Register, July 18, 1952. Serial No. 618,358.

E-ZEE

For Fountain Brush.
Claims use since Oct. 27, 1950.

565,429. (Class 47. Wines.) Ellena Brothers, Etiwanda, Calif. Original filed, act of 1946, Principal Register, Sept. 10, 1951; amended to application, Supplemental Register, July 22, 1952, Serial No. 618,569.

ETIWANDA

For Wines.
Claims use since Aug. 1, 1950.

565,430. (Class 18. Medicines and Pharmaceutical Preparations.) Robert Miles Sherman, Yonkers, N. Y. Original filed, act of 1946, Principal Register, Sept. 10, 1951; amended to application, Supplemental Register, Apr. 19, 1952, Serial No. 618,603.

BOOSTER

For Medical Preparation, in Tablet or Capsule Form, for Human Use, Especially Prepared To Induce Sobriety, Relieve Headache Due to Overindulgence in Alcoholic Beverages, Improve Subjective Feeling Tone, Increase Memory Span.
Claims use since Mar. 23, 1950.

565,431. (Class 38. Prints and Publications.) Weekly Publications, Inc., New York, N. Y. Filed Oct. 16, 1951, Serial No. 620,069.

A WELL INFORMED PUBLIC IS AMERICA'S GREATEST SECURITY

For Periodical Publication.
Claims use since Sept. 30, 1940.

565,432. (Class 38. Prints and Publications.) Fairchild Publications, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 5, 1951; amended to application, Supplemental Register, July 17, 1952, Serial No. 622,108.

. . . the material of fashion . . .

For Newspaper Column or Columns.
Claims use since Apr. 9, 1951.

565,433. (Class 38. Prints and Publications.) Abos's Mfg. Co., Mishawaka, Ind. Original filed, act of 1946, Principal Register, Feb. 2, 1952; amended to application, Supplemental Register, July 30, 1952, Serial No. 624,440.

OUTBOARD DEALER TRADE-IN GUIDE

For Price Evaluating Books Issued Periodically.
Claims use since June 16, 1950.

Service Marks

565,434. (Class 104. Communication.) Columbia Broadcasting System, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 22, 1947; amended to application, Supplemental Register, Apr. 19, 1951, Serial No. 545,082.

Talent Scouts

For Radio Program Broadcasting Services.
Claims use since July 2, 1946.

565,435. (Class 101. Advertising and Business.) Wilmer M. Sanner, doing business as W. M. Sanner Company, Baltimore, Md. Original filed, act of 1946, Principal Register, May 16, 1949; amended to application, Supplemental Register, Dec. 10, 1951, Serial No. 578,942.

FINE PRINTING SANNER AND ENGRAVING

For Printing and Engraving.
Claims use since Apr. 1, 1949.

565,436. (Class 100. Miscellaneous.) Vernon Isbell, Fort Worth, Tex. Original filed, act of 1946, Principal Register, June 20, 1949; amended to application, Supplemental Register, Mar. 12, 1952, Serial No. 580,788.

Vernon's "A Wan Haircut"

The word "Haircut" is disclaimed.
For Cutting of Women's Hair.
Claims use since Mar. 1, 1939.

TRADE-MARK REGISTRATIONS RENEWED

36,950. FREE. Registered Aug. 20, 1901. Illinois Sewing Machine Company, Chicago, Ill. Re-renewed Aug. 20, 1951, to Free Sewing Machine Co., Rockford, Ill., a corporation of Illinois. Sewing-Machines. Class 23.

39,405. OLDSMOBILE. Registered Dec. 2, 1902. Olds Motor Works, Detroit and Lansing, Mich. Re-renewed Dec. 2, 1952, to General Motors Corporation, Detroit, Mich., a corporation of Delaware. Automobiles. Class 19.

77,347. UNGHANS J. Registered Mar. 29, 1910. Vereinigte Uhrenfabriken von Gebrüder Junghans und Thomas Haller A.-G. Re-renewed Mar. 29, 1950, to Gebruder Junghans Aktiegesellschaft, Schramberg, Germany, a corporation organized under the laws of Germany. Clock-Works, Watch-Cases and Clock and Watch Dial-Plates. Class 27.

82,960. CALWA. Registered Aug. 8, 1911. The California Wine Association. Re-renewed Aug. 8, 1951, to California Wine Association, San Francisco, Calif., an association organized under the laws of California. Claret-Wine. Class 47.

84,682. "H C R & CO" ETC. AND DESIGN. Registered Dec. 26, 1911. H. C. Rowe & Co. Re-renewed Dec. 26, 1951, to H. C. Rowe and Company, Inc., New Haven, Conn. Fresh Oysters. Class 46.

86,674. REPRESENTATION OF JAPANESE SYMBOL. Registered May 21, 1912. Genba Tanaka, Kaijogori, Chiba-Ken, Japan. Re-renewed May 21, 1952, to Choshi Shoyu Kabushiki Kaisha, Tokyo, Japan, a corporation of Japan. Sauce (Soy). Class 46.

86,825. OLD BUSHMILLS. Registered June 4, 1912. The Old Bushmills Distillery Co., Ltd. Re-renewed June 4, 1952, to The "Old Bushmills" Distillery Company, Limited, Belfast, Northern Ireland, a corporation organized under the laws of Great Britain. Irish Malt Whisky. Class 49.

86,926. ROSETTES. Registered June 11, 1912. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed June 11, 1952, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

86,929. FIRESIDE. Registered June 11, 1912. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed June 11, 1952, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

87,002. MOCCASIN. Registered June 18, 1912. Paramount Knitting Company. Re-renewed June 18, 1952, to Bear Brand Hosiery Co., Chicago, Ill., a corporation of Illinois. Hosiery. Class 39.

87,701. "C.J" ETC. AND DESIGN. Registered Aug. 6, 1912. Charles J. Allen, Philadelphia, Pa. Re-renewed Aug. 6, 1952, to Charles J. Allen, Moorestown, N. J. Coal-Meters. Class 26.

87,787. "SELECTED PENS" ETC. AND DRAWING. Registered Aug. 6, 1912. William Mitchell (Pens) Limited. Re-renewed Aug. 6, 1952, to British Pens Limited, Birmingham, England, a corporation of Great Britain. Steel and Metallic Pens. Class 37.

88,032. REGAL. Registered Aug. 20, 1912. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Re-renewed Aug. 20, 1952, to The Texas Company, New York, N. Y., a corporation of Delaware. Lubricating-Oils. Class 15.

88,712. OLYMPIAN. Registered Oct. 15, 1912. The Texas Company, Houston and Port Arthur, Tex., and New York, N. Y. Re-renewed Oct. 15, 1952, to The Texas Company, New York, N. Y., a corporation of Delaware. Lubricating-Oil. Class 15.

88,893. "KEYSTONE" AND DESIGN. Registered Oct. 29, 1912. Keystone Driller Company, Beaver Falls, Pa., a corporation of Pennsylvania. Re-renewed Oct. 29, 1952. Power Percussion Well-Drilling Machines and Cable Well-Drilling Machines, Steam-Engines, Etc. Class 23.

88,948. "EL VAQUERO" ETC. Registered Oct. 29, 1912. The Portland Flouring Mills Company, Portland, Oreg. Re-renewed Oct. 29, 1952, to Otis, McAllister & Co., San Francisco, Calif., a corporation of California. Wheat-Flour. Class 46.

89,250. BARBO. Registered Dec. 3, 1912. Frank A. Gray, Kansas City, Mo. Re-renewed Dec. 3, 1952, to York Drug Company, Inc., New York, N. Y., a corporation of New York. Hair Remedies. Class 18.

288,083. OPERA. Registered Nov. 10, 1931. Manheimer Watch Company, Chicago, Ill. Renewed Nov. 10, 1951, to Waltham Watch Company, Waltham, Mass., a corporation of Massachusetts. Watches, Watch Cases, and Watch Movements. Class 27.

290,959. VELSUEDE. Registered Jan. 19, 1932. Hockmeyer Bros., Inc. Renewed Jan. 19, 1952, to Hockmeyer Bros., Inc., New York, N. Y., a corporation of Maine. Cotton Piece Goods. Class 42.

291,758. "VISUALIZED" AND REPRESENTATION OF EYE. Registered Feb. 23, 1932. Paramount Paper Products Co., Inc., Philadelphia, Pa., a corporation of Delaware. Renewed Feb. 23, 1952. Paper Bags. Class 2.

293,678. "TEMPO" AND DRAWING. Registered May 3, 1932. Milo Harding Company, Ltd. Renewed May 3, 1952, to Milo Harding Company, Los Angeles, Calif., a partnership. Stencils. Class 37.

293,782. "BREVOLITE" AND DESIGN. Registered May 3, 1932. Waukegan Chemical Company, North Chicago, Ill. Renewed May 3, 1952, to Atlas Powder Company, Wilmington, Del., a corporation of Delaware. Gum Varnishes, Synthetic Resin Varnishes, Asphaltum Varnish, Etc. Class 12.

294,273. MONOLEUM. Registered May 24, 1932. Mead-Suydam Company. Renewed May 24, 1952, to Fred J. Mead, Orange, N. J. Burial Vault. Class 2.

294,707. VAN HOUTEN'S RONA. Registered June 7, 1932. C. J. van Houten & Zoon. Renewed June 7, 1952, to C. J. van Houten & Zoon, N. V., Weesp, Netherlands, a joint stock company existing under the laws of the Kingdom of the Netherlands. Cocoa, Chocolate, and Cocoabutter for Food Purposes. Class 46.

294,723. CLOVER FARM. Registered June 7, 1932. The Grocers & Producers Co., doing business as Clover Farm Stores. Renewed June 7, 1952, to Clover Farm Stores Corporation, Cleveland, Ohio, a corporation of Ohio. Prepared Cocoanut, Cake Flour, Pancake Flour, Etc. Class 46.

294,731. ZERO. Registered June 7, 1932. The B. F. Goodrich Company, New York, N. Y. Renewed June 7, 1952, to The B. F. Goodrich Company, Akron, Ohio, a corporation of New York. Rubber Vehicle Tires. Class 35.

295,004. DIPLOMAT. Registered June 14, 1932. Diplomat Products, Inc., New York, N. Y. Renewed June 14, 1952, to Diplomat Products, Inc., North Bergen, N. J., a corporation of New York. Chicken Cream of Potato Soup, Old Fashioned Chicken Fricassee, Etc. Class 46.

295,042. BU-GAS. Registered June 14, 1932. Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif., a corporation of Delaware. Renewed June 14, 1952. Gas for Illuminating Purposes, Gas for Fuel Purposes, Gas for Heating Purposes, Etc. Class 6.

295,063. VELOX. Registered June 14, 1932. Brown, Boveri & Cie., Baden, Switzerland, a corporation organized under the laws of Switzerland. Renewed June 14, 1952. Steam Generators and Accessories—Namely, Water Separators, High-Pressure Fire Boxes Made of Tubes, Superheaters, and Preheaters for Make-up Water. Class 34.

295,068. REPRESENTATION OF ROOSTER AND MEDALLION BAR DESIGN LINED FOR RED AND GREEN. Registered June 14, 1932. Diplomat Products, Inc., New York, N. Y. Renewed June 14, 1952, to Diplomat Products, Inc., North Bergen, N. J., a corporation of New York. Chicken Cream of Potato Soup, Old Fashioned Chicken Fricassee, Etc. Class 46.

295,441. "SHELL BRAND" AND DRAWING. Registered July 5, 1932. The Asiatic Petroleum Company, Limited, London, England, assignor to Shell Oil Company. Renewed July 5, 1952, to Shell Oil Company, New York, N. Y., a corporation of Delaware. Dry Cleaning Solvents. Class 52.

296,324. "BULLEN'S UNIVERSAL CLEANER" ETC. Registered Aug. 2, 1932. Joseph Warren Bullen, doing business as The Bullen Chemical Company. Renewed Aug. 2, 1952, to The Bullen Chemical Company, Inc., Folcroft, Pa., a corporation of Pennsylvania. Cleanser for Cleaning, Preserving, and Renewing Varnished and Painted Surfaces of All Kinds, and Also for General Household Use. Class 52.

296,417. HYLITE. Registered Aug. 9, 1932. Amalgamated Leather Companies, Inc., Wilmington, Del., Philadelphia, Pa., New York, N. Y., Boston, Mass., Rochester, N. Y., Chicago, Ill., and St. Louis, Mo. Renewed Aug. 9, 1952, to Amalgamated Leather Companies, Inc., Wilmington, Del., a corporation of Delaware. Kid, Glazed Kid, and Other Leathers. Class 1.

296,680. MOLY. Registered Aug. 16, 1932. Clemson Bros. Inc., Middletown, N. Y., a corporation of New York. Renewed Aug. 16, 1952. Saws and Saw Blades. Class 23.

296,687. "G SIP" ETC. Registered Aug. 16, 1932. Societe Genevoise d'Instruments de Physique, Geneva, Switzerland. Renewed Aug. 16, 1952, to American Sip Corporation, New York, N. Y., a corporation of New York. Drawing Instruments, Astronomical Instruments, and Micrometers and Other High Precision Appliances and Instruments for Laboratory and Factory Use for Measuring, Etc. Class 26.

296,757. SCOTT. Registered Aug. 16, 1932. E. H. Scott Radio Laboratories, Inc. Renewed Aug. 16, 1952 (Supplemental Register), to Scott Radio Laboratories, Inc., Chicago, Ill., a corporation of Illinois. Radio Receiving Sets, Radio Receiving Apparatus—Namely, Audio Frequency Transformers, Intermediate Frequency Transformers, Etc. Class 21.

296,765. CRECO KLEENWELL. Registered Aug. 23, 1932. Creco Company, Inc., Long Island City, N. Y., a corporation of New York. Renewed Aug. 23, 1952. Liquid Soap for Washing Purposes. Class 52.

296,766. "AP" WITHIN DIAMOND DESIGN. Registered Aug. 23, 1932. Accurate Parts Manufacturing Company, Cleveland, Ohio, a corporation of Ohio. Renewed Aug. 23, 1952. Screws, Bolts, Nuts, Metal Washers, Lock Washers, and Coil Springs, for General Use. Class 13.

296,953. "PHILAPENN" AND DRAWING. Registered Aug. 30, 1932. Gaseteria Incorporated. Renewed Aug. 30, 1952, to Gaseteria Incorporated, Indianapolis, Ind., a corporation of Indiana. Lubricating Oils. Class 15.

296,959. VELOX. Registered Aug. 30, 1932. Brown, Boveri & Cie., Baden, Switzerland, a corporation organized under the laws of Switzerland. Renewed Aug. 30, 1952. Heating Tubes and Tube Couplings. Class 13.

297,154. CRECO KLEENRITE. Registered Sept. 6, 1932. Creco Company, Inc., Long Island City, N. Y., a corporation of New York. Renewed Sept. 6, 1952. Floor Scrubbing Soap. Class 52.

297,356. VELOX. Registered Sept. 13, 1932. Brown, Boveri & Cie., Baden, Switzerland, a corporation organized under the laws of Switzerland. Renewed Sept. 13, 1952. Circulating Water Pumps, and Exhaust Gas Turbines. Class 23.

297,383. SEGS. Registered Sept. 13, 1932. Blakey's Boot Protectors Limited, Leeds, England, a limited liability company registered under the laws of Great Britain. Renewed Sept. 13, 1952. Boot Protectors, Boot Studs, and Boot Nails. Class 13.

297,447. "G SIP" ETC. Registered Sept. 13, 1932. Societe Genevoise d'Instruments de Physique, Geneva, Switzerland. Renewed Sept. 13, 1952, to American Sip Corporation, New York, N. Y., a corporation of New York. Machines, Lathes, and Tools for Cutting, Boring, Dividing, Etc. Class 23.

297,591. "LA BERGÈRE" ETC. AND DRAWING. Registered Sept. 20, 1932. Societe Anonyme des Caves & des Producteurs Reunis de Roquefort, Roquefort, France, a corporation organized under the laws of the Republic of France. Renewed Sept. 20, 1952. Cheese. Class 46.

297,892. FIBR-CELO. Registered Oct. 4, 1932. U. S. Manufacturing Corporation, Decatur, Ill., a corporation of Illinois. Renewed Oct. 4, 1952. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

297,927. "ARKO HERBS" ETC. AND DRAWING. Registered Oct. 4, 1932. Arko Herbs Incorporated, Buffalo, N. Y., a corporation of New York. Renewed Oct. 4, 1952. Herb Teas Beneficial for All Stomach Disorders and as a General Tonic. Class 18.

297,997. VIBER. Registered Oct. 11, 1932. Graham M. Gordon, Los Angeles, Calif., assignor to Viber Company, Limited. Renewed Oct. 11, 1952, to Viber Company, Burbank, Calif., a corporation of California. Machinery for Tamping, Vibrating, Placing, and Packing Wet Concrete Mixture in Molds and Forms. Class 23.

298,137. MILKY WAY WHOLE EGGS. Registered Oct. 11, 1932. Mars, Incorporated. Renewed Oct. 11, 1952, to Mars, Incorporated, Chicago, Ill., a corporation of Delaware. Whole Eggs. Class 46.

298,138. MILKY WAY EGG WHITES. Registered Oct. 11, 1932. Mars, Incorporated. Renewed Oct. 11, 1952, to Mars, Incorporated, Chicago, Ill., a corporation of Delaware. Egg Whites. Class 46.

298,139. MILKY WAY EGG YOLKS. Registered Oct. 11, 1932. Mars, Incorporated. Renewed Oct. 11, 1952, to Mars, Incorporated, Chicago, Ill., a corporation of Delaware. Egg Yolks. Class 46.

298,270. "LEXINGTON" AND DRAWING. Registered Oct. 18, 1932. Wachusett Shirt Company, Leominster, Mass. Renewed Oct. 18, 1952, to Lexington Manufacturing Company, Lexington, N. C., a corporation of North Carolina. Dress and Negligee Shirts. Class 39.

298,322. "McCALLUM'S" ETC. AND DRAWING. Registered Oct. 25, 1932. D. & J. McCallum, Ltd. Renewed Oct. 25, 1952, to D. & J. McCallum Limited, Edinburgh, Scotland, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Scotch Whisky. Class 49.

298,450. "CROSBY SQUARE" ETC. AND DESIGN. Registered Oct. 25, 1932. Walter Booth Shoe Co. Renewed Oct. 25, 1952, to Mid-States Shoe Company, Milwaukee, Wis., a corporation of Wisconsin. Boots, Shoes, and Oxfords Made Wholly or in Part of Leather, Fabric, or Combinations Thereof. Class 39.

298,459. "NATURAL BRIDGE" WITHIN CIRCLE DESIGN. Registered Oct. 25, 1932. Craddock-Terry Co. Renewed Oct. 25, 1952, to Craddock-Terry Shoe Corporation, Lynchburg, Va., a corporation of Virginia. Shoes of Leather and Fabric. Class 39.

298,504. ROYAL. Registered Oct. 25, 1932. Royal Baking Powder Company. Renewed Oct. 25, 1952, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Gelatin Dessert and Gelatin Aspic. Class 46.

298,564. CLIPPER. Registered Nov. 1, 1932. Groves Thread Company, Inc., Gastonia, N. C., a corporation of North Carolina. Renewed Nov. 1, 1952. Cotton Thread and Yarns. Class 43.

298,570. CIRCLE. Registered Nov. 1, 1932. St. Louis Basket & Box Corporation. Renewed Nov. 1, 1952, to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland. Fiberboard Boxes. Class 2.

298,664. "TRAV-EL-AIDS" ETC. Registered Nov. 1, 1932. Bloomingdale Bros., Inc. Renewed Nov. 1, 1952, to Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware. Spirits of Camphor U. S. P., Spirits of Nitre U. S. P., Aromatic Spirits of Ammonia U. S. P., Etc. Class 18.

298,698. GLENDALE. Registered Nov. 1, 1932. United Elastic Corporation, Easthampton, Mass., a corporation of Massachusetts. Renewed Nov. 1, 1952. Elastic Fabrics. Class 42.

298,849. QUINOLOR. Registered Nov. 8, 1932. E. R. Squibb & Sons, New York, N. Y., a corporation of New York. Renewed Nov. 8, 1952. Germicidal Preparations. Class 18.

299,161. REPRESENTATION OF DISTILLERY, ETC. Registered Nov. 22, 1932. Martini & Rossi S. A., Turin, Italy. Renewed Nov. 22, 1952, to Martini & Rossi Corporation, New York, N. Y., a corporation of Delaware. Vermouth, Cocktails, Liquors, and Bitters. Class 49.

299,210. TEXSPRAY. Registered Nov. 22, 1932. The Texas Company. Renewed Nov. 22, 1952, to The Texas Company, New York, N. Y., a corporation of Delaware. Compounded Mineral Oil for Use in the Treatment of Textile Fibers. Class 6.

299,231. REPRESENTATION OF COLOSSUS OF RHODES, ETC. Registered Nov. 22, 1932. James H. Rhodes & Company, Chicago, Ill., a corporation of Illinois. Renewed Nov. 22, 1952. Steel Wool and Pumice Stone. Class 4.

299,424. TARSO SUPINATOR. Registered Dec. 6, 1932. Maurice J. Markell, Brooklyn, N. Y. Renewed Dec. 6, 1952. Men's, Women's, and Children's Shoes Made of Leather, Rubber, or Fabric and Combinations of These Materials. Class 39.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

355,192. STATE CENTER. Registered Mar. 8, 1938. Paul A. Mosesian & Sons, Inc., Fresno, Calif. Fresh Grapes, Fresh Deciduous Fruits, Fresh Citrus Fruits, Etc. Class 46. Corrected as follows: In the certificate, lines 2 and 16; in the heading to the statement; in line 1 of the statement; and in the printed signature, "Sons" should be *Son*.

392,192. STATE O' GOLD. Registered Dec. 16, 1941. Paul A. Mosesian & Sons, Inc., Fresno, Calif. Fresh Grapes, Deciduous Fruits, Fresh Vegetables, Etc. Class 46. Corrected as follows: In the certificate, lines 2 and 16; in the heading to the statement; in line 1 of the statement; and in the printed signature, "Sons" should be *Son*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 371,303. Registered Sept. 19, 1939. Coblentz Bag Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

HONEY

For Ladies' Handbags.
Claims use since Apr. 8, 1939.

CLASS 10

FERTILIZERS

Reg. No. 295,652. Registered July 5, 1932. Olds & Whipple, Inc., Hartford, Conn., a corporation of Connecticut. Republished by registrant.

LUXURA

For Food for Plants, Vegetables, Lawns, Shrubs, and Trees.
Claims use since Feb. 29, 1932.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 38,208. Registered Apr. 29, 1902. H. W. Johns-Manville Company, New York, N. Y. Republished by Johns-Manville Corporation, New York, N. Y., a corporation of New York.

FIREITE

For Fireproof Cements for Use in Furnaces.
Claims use since on or about Mar. 1, 1902.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 443,970. Registered May 9, 1950. The Ohio Pattern Works & Foundry Co., Cincinnati, Ohio, assignor to O P W Corporation. Republished by O P W Corporation, Cincinnati, Ohio, a corporation of Ohio.

OPW

For Automatic Barrel Fillers, Ball and Socket Attachments for Loading and Unloading Fluid Fuels, Bottom Loader Assemblies, Bushings, Cage Valve Assemblies, Combination Check Valve and Strainer, Companion Flanges, Coupling Assemblies, Drain Back Connections, Drain Flanges, Drop Tubes, Drum Unloaders, Dust Caps, Elbows, Elbow Filler Tubes, Extractor Fittings, Fill Boxes, Fill Caps, Fill Cap Vents, Fill Deflectors, Filling Adaptors, Flanges, Fuel Nozzles, Hose Elbows, Hose Nozzles, Hose Nozzles Including Flow Control Valves, Hose Spouts, Intake Floats, Line Strainers, Loading and Unloading Attachments for Use With Fluid Fuels and Truck Carriers Thereof, Manholes, Nipples, Nipple Assemblies, Nozzle Strainers, Nozzle Tubes, Pipe Couplings, Pipe Line Deflectors, Plug Seats, Safety Bungs, Slide Sleeve Loading Arms, Slip Spouts, Suction Line Strainers, Suction Stub Assemblies, Swing Joints, Swivel Elbow Couplings, Swivel Hose-Connectors, Tank Car Loading and Unloading Connections, Tank Vents, Tube Caps, Tube Strainers, Tubing Adapters, Union Couplings, Union Elbows, Vacuum Breakers, Valves—Namely, Air Control Valves, Air Relief Valves, Air Valves, Angle Check Valves, Angle Valves, Anti-Freeze Drain Valves, By-Pass Valves, Cage Valves, Check Valves, Compressor Check Valves, Cross Check Valves, Cross Valves, Disk Valves, Emergency Valves, Extractor Valves and Fittings Therefor, Flanged Valves, Foot Valves, Globe Valves, Inlet Check Valves, Loading Valves, Outlet Check Valves, Poppet Valves for Use in Pipelines, Pressure Relief Valves, Quick Opening Valves, Swing Check Valves, Truck Tank Valves, Vacuum Valves, Water Locking Valves and Parts Thereof, Water Valves, Welding Pads, and Vent Caps.
Claims use since on or about October 1931.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 294,028. Registered May 17, 1932. The Chattanooga Medicine Company, Chattanooga, Tenn., a corporation of Tennessee. Republished by registrant.

Bee Dee

For Dusting Antiseptic Powder and a Laxative Medicine for Live Stock.
Claims use since Aug. 25, 1910.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 292,018. Registered Mar. 1, 1932. F. Rosenberg Elevator Company, Milwaukee, Wis., a corporation of Wisconsin. Republished by registrant.

HYDROMATIC

For Electric Control Devices for Hydraulic Elevators.
Claims use since July 7, 1931.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Reg. No. 426,674. Registered Jan. 7, 1947. Howard Manufacturing Corporation, Council Bluffs, Iowa. Republished by Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware.

RINKMASTER

For Skate Wheels.
Claims use since October 1945.

Reg. No. 427,960. Registered Mar. 4, 1947. Howard Manufacturing Corporation, Council Bluffs, Iowa. Republished by Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware.

Dancemaster

For Skate Wheels.
Claims use since October 1945.

Reg. No. 429,822. Registered May 20, 1947. Howard Manufacturing Corporation, Council Bluffs, Iowa. Republished by Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware.

Speedmaster

For Skate Wheels.
Claims use since October 1945.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 292,431. Registered Mar. 15, 1932. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Republished by The May Department Stores Company, St. Louis, Mo., a corporation of New York.

Ivo

For Razor Blades.
Claims use since about Nov. 12, 1931.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Reg. No. 290,809. Registered Jan. 19, 1932. Hahn Department Stores, Inc., Wilmington, Del. Republished by Allied Stores Corporation, New York, N. Y., a corporation of Delaware.

Super-Gyro

For Electric Laundry Washing Machines.
Claims use since June 30, 1931.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Reg. No. 308,895. Registered Dec. 26, 1933. Bourjois, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Evening in Paris

For Powder Puffs.
Claims use since Oct. 6, 1928.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Reg. No. 310,841. Registered Mar. 13, 1934. Super-Fan Mfg. Co., Freeport, Ill. Republished by Queen Stove Works, Inc., Albert Lea, Minn., a corporation of Delaware.

Super-Fan

The word "Fan" is disclaimed apart from the mark as shown.

For Ventilating Fans.
Claims use since June 6, 1932.

CLASS 39

CLOTHING

Reg. No. 293,390. Registered Apr. 19, 1932. The Wilson Rubber Company, Canton, Ohio, a corporation of Ohio. Republished by registrant.

WILTEX

For Rubber Gloves for Household or Industrial Use.
Claims use since on or about May 5, 1931.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 321,826. Registered Feb. 19, 1935. I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York. Republished by registrant.

ILLUSION

For Shower Curtains and Window Drapes Made of Waterproofed Fabrics, and Waterproofed Fabrics in the Piece.
Claims use since August 1933.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 353,571. Registered Jan. 11, 1938. Schenley Products Company, New York, N. Y. Republished by Schenley Industries, Inc., New York, N. Y., a corporation of Delaware.



For Distillers Dried Grains for Use as a Cattle Feed.
Claims use since Jan. 2, 1937.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 309,130. Registered Jan. 2, 1934. George Benz Sons, Inc., St. Paul, Minn. Republished by Schenley Distillers, Inc., New York, N. Y., a corporation of Delaware.

Oldays

For Whiskey.
Claims use since Mar. 1, 1903.

Reg. No. 339,939. Registered Oct. 27, 1936. Hiram Walker & Sons Inc., Peoria, Ill., a corporation of Michigan. Republished by registrant, present address Detroit, Mich.

TEN HIGH

For Whiskey.
Claims use since on or about Oct. 23, 1934.

Reg. No. 343,385. Registered Feb. 16, 1937. Chapin & Gore, Inc., Chicago, Ill. Republished by Schenley Distillers, Inc., New York, N. Y., a corporation of Delaware.



Chapin & Gore

CHAPIN & GORE

For Whiskey.
Claims use since 1892.

Reg. No. 347,148. Registered June 15, 1937. Schenley Products Company, New York, N. Y. Republished by Schenley Industries, Inc., New York, N. Y., a corporation of Delaware.



For Whiskey, Gin, and Brandy.
Claims use since Aug. 18, 1936.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 394,118. Registered Mar. 17, 1942. Bourjois, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

mais Oui

For Perfume, Eau Parfumee, and Talcum Powder.
Claims use since June 6, 1938.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 310,371. Registered Feb. 20, 1934. Bourjois, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Evening in Paris

For Toilet Soap.
Claims use since Feb. 15, 1932.

REISSUES

OCTOBER 14, 1952

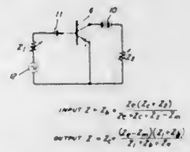
23,563

CONTROL OF IMPEDANCE OF SEMICONDUCTOR AMPLIFIER CIRCUITS

Harold L. Barney, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Original No. 2,585,077, dated February 12, 1952, Serial No. 58,684, November 6, 1948. Application for reissue July 3, 1952, Serial No. 297,198

5 Claims. (Cl. 179—171)



1. An amplifier network having an adjustable input impedance which comprises a transistor comprising a semiconductive body, a base electrode, an emitter electrode and a collector electrode cooperatively associated therewith, said transistor being characterized by a ratio of short-circuit collector current increments to emitter current increments which, under proper conditions of electrode bias is greater than unity, means including an energy source for establishing said proper bias conditions, an input circuit interconnecting said base electrode and said emitter electrode, an output circuit interconnecting said emitter electrode and said collector electrode, and a load connected in said output circuit, the effective resistance R_2 of said load being proportioned in accordance with the formula

$$R_{in}=r_b+\frac{r_e(r_c+R_2)}{r_e+r_c+R_2-r_m}$$

where

r_e=emitter resistance of the transistor
r_b=base resistance of the transistor
r_c=collector resistance of the transistor
r_m=mutual resistance of the transistor
R_{in}=input resistance of the transistor network

to cause the input impedance of the network to have a desired value.

23,564

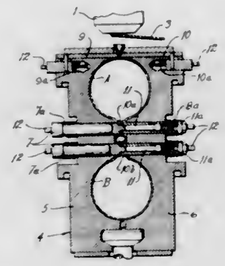
MULTIPLE CAVITY MOLD

John R. Hobson, West Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware

Original No. 2,541,249, dated February 13, 1951, Serial No. 768,163, August 12, 1947. Application for reissue March 13, 1951, Serial No. 215,370

23 Claims. (Cl. 18—5)

2. The process of forming hollow articles of organic plastic material which comprises extruding a vertically suspended tube of such material from an extrusion nozzle, closing a sectional mold about the suspended tube, closing the leading end of said tube between the mold sections, admitting a gaseous pressure medium into said closed tube through a blowhead in said extrusion nozzle and expanding said closed tube to the shape of said mold, sealing said tube at spaced points to form a plurality of spaced, sealed sections of said tubular



material, and separating the sealed sections within the mold.

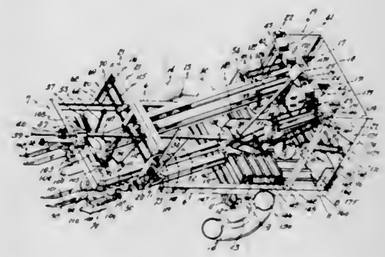
23,565

BEET HARVESTER

Ervin V. Waack, Saginaw, Mich., and Edward J. Floeter, deceased, late of Saginaw, Mich., by Adalene E. Floeter, administratrix, Bay Port, Mich.

Original No. 2,589,361, dated March 18, 1952, Serial No. 14,782, March 12, 1948. Application for reissue April 4, 1952, Serial No. 280,558

12 Claims. (Cl. 55—106)



16. In a beet harvesting machine of the type wherein the foliage of partially unearthed beets is frictionally engaged by coacting conveyor elements on a wheeled frame passing thereover which raise the beets rearwardly and upwardly to a pair of oppositely driven disc cutters for severing the crown and foliage from the main body of the beet root, improved beet positioning means for presenting each beet to the cutters at a proper level, characterized by laterally yielding beet positioning guides connected to the frame and located below and on either side of the foliage engaging surfaces of said conveyor, said guides being constructed with continuous longitudinally extending surfaces for simultaneous engagement with the foliage stalk and the crown of each beet root during its conveyance, notwithstanding variations in beet sizes, and said guide surfaces having a path departing from the conveyor sufficiently to cause positive vertical positioning engagement with the crown of each beet root as said beet is conveyed toward the cutters.

PLANT PATENTS

GRANTED OCTOBER 14, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,136
ROSE PLANT
Arthur Preston Howard, Sierra Madre, Calif., assignor to Howard & Smith, Montebello, Calif.
Application August 28, 1951, Serial No. 243,985
1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant, in many respects similar to its parent but characterized particularly as to novelty by its robust, climbing habit of growth; the position of its blooms on the stems; and its bloom of medium size and approximately salmon-orange suffused with pink, substantially as shown and described.

1,137
CAMELLIA PLANT
Rufus L. Wheeler, Macon, Ga.
Application April 26, 1950, Serial No. 158,173
1 Claim. (Cl. 47—60)

The new and distinct variety of camellia plant as herein disclosed, characterized by the flower semi-double to incomplete double, of from five to about six and one half inches in diameter, borne singly on unusually heavy stems, rose colored petals of round or oval form and smooth edges; the flower being distinguished further by having stamens forming a circular center and having large yellow anthers and long, large yellow filaments; plant of rapid, erect growth, vigorous, with foliage reddish green when new and glossy dark green when old, large averaging from two and one half to four and one half inches wide, to four to six inches long.

1,138
RAPHIOLEPIS PLANT
Harry L. Marken and William J. Marken, Morgan Hill, Calif., assignors to Leonard Coates Nurseries, Inc., San Jose, Calif., a corporation of California
Application September 10, 1951, Serial No. 245,804
1 Claim. (Cl. 47—60)

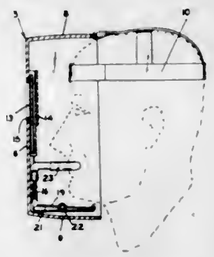
A new and distinct variety of Raphiolepis plant, substantially as herein shown and described, characterized particularly by the distinctive and unique coloring of the flowers.

PATENTS

GRANTED OCTOBER 14, 1952

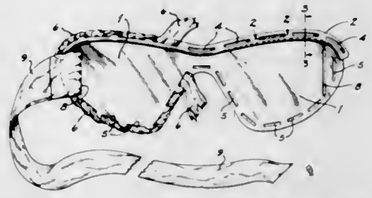
GENERAL AND MECHANICAL

2,613,353
WELDING HELMET WITH AIR PRESSURE RESPONSIVE SHIFTABLE EYE PROTECTIVE LENS
Walter A. Schnitzler, Emerald, Wis.
Application May 25, 1950, Serial No. 164,250
1 Claim. (Cl. 2—8)



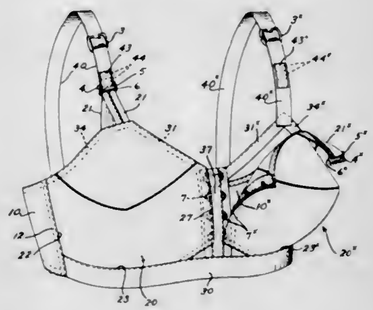
A shield unit for use by welders comprising an opaque shield adapted to be mounted on a welder's head and having an opening therein disposed in front of the welder's eyes, a shiftable anti-glare lens normally interposed between said opening and the eyes of the welder, guiding means mounted on said shield for guiding said lens during its shifting movement, an air confining flexible bag mounted with a portion thereof engaged against the inner surface of said shield, a plate engaged against an opposed surface of said bag and shiftable when air under pressure is applied to the interior of said bag, linkage interconnecting said shiftable bag engaging plate and said lens for transmitting the shifting movement of said plate to said lens, and a mouth piece connected with said bag to permit a welder to blow therein and apply air pressure thereto to shift said lens out of normal position.

2,613,354
NOVEL TYPE OF SUNGLASSES
Michael F. Kidzus, Matawan, and Maxwell M. Kaye, Newark, N. J., assignors to Mikay Optical Company, Newark, N. J., a corporation of New Jersey
Application July 9, 1949, Serial No. 103,878
1 Claim. (Cl. 2—14)



An eye shield comprising eye pieces having a vertical slot at each side end of the eye shield, a strip of flexible material attached to each of said slots to form a headband, a rigid reenforcing edge member attached to and extending around at least a portion of the edge of said eye pieces, said edge member having a series of slots extending around its peripheral portion, said slots in said edge member being biased in one direction, the peripheral edge of that portion of said eye pieces not in engagement with said rigid reinforcing edge member being provided with a series of slots extending therearound, and a length of flexible material threaded through said slots and forming a cushion-like border for said eye shield.

2,613,355
NURSING BRASSIÈRE
Joseph A. Coleman, New York, N. Y., assignor to Maiden Form Brassiere Company, Inc., New York, N. Y., a corporation of New York
Application August 25, 1948, Serial No. 46,159
3 Claims. (Cl. 2—42)



1. In a nursing brassière, in combination, a pair of rear body bands, the front edges of which terminate in lateral seams, a front body band joined at its ends to the said lateral seams, means secured to the rear facing edges of the rear body bands for detachably connecting the two to form a body encircling loop which is in underlying relation to the breasts: a left and right suspensory band, each band formed as a wide-spread inverted-V, the inner ends of each band being mutually united to each other at the front medial point of the brassière, a front medial stay or pillar joined at its lower end to said front body band and at its upper end to the said pair of suspensory bands, the outer ends of the said pair of suspensory bands being joined to the said pair of rear body bands at their said lateral seams, thereby forming a pair of breast encircling loops; a pair of shoulder straps, the rear ends of which are joined to the said rear body bands near their facing rear edges and the front ends thereof are joined at the said apex points of said pair of suspensory bands, whereby a framework is provided which is intact on the body irrespective of the breast pockets; a pair of breast-pockets each coextensive in area with the said pair of breast-encircling loops, the distal edges of said breast-pockets being sewed to the pair of body portions

at their said lateral seams and the bottom edges thereof being sewed to the lower body band, the facing proximal edges of the pockets being detachably secured to the said front medial stay, and the upper edge of the pockets being detachably suspended from a predetermined point on said shoulder straps, whereby the top edge of a breast pocket may be dropped and its proximal edge unfastened to expose the full breast.

2,613,356

BRASSIÈRE

Winifred M. Russell, Los Angeles, Calif., assignor, by mesne assignments, to Caltex Sportwear Co. of California, Inc., a corporation of Delaware

Application October 6, 1951, Serial No. 250,053
2 Claims. (Cl. 2—42)



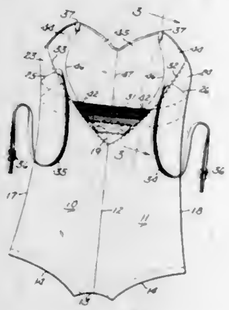
1. A bust shaping and supporting garment comprising a bust encircling band including two breast supporting cups, a pair of shoulder straps each connected at one end thereof to the approximate center of the top edge of each of said cups, resilient breast supporting frame elements including two arcuately shaped and continuous end portions positioned within a casing and attached to the bottom edges of said cups, and elastic tapes secured to the edges of said cups and extending at an angle of approximately 45° from the point of meeting of the said breast supporting frame elements to the point of attachment of the cups to said shoulder straps.

2,613,357

WOMAN'S GARMENT

Bette J. Christensen, Portland, Oreg., assignor to Jantzen Knitting Mills Inc., Portland, Oreg., a corporation of Nevada

Application November 21, 1949, Serial No. 128,612
4 Claims. (Cl. 2—67)



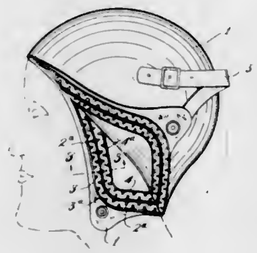
1. A woman's garment comprising an upper portion including breast pockets, a pair of forwardly bowed stiffener strips secured within said pockets, each extending vertically along the profile line of one of said pockets, a relatively wide elastic band extending around the interior of the front of the garment with its upper edge adjacent the lower edges of said pockets, said band being free from said garment throughout its length and being secured to said garment at its ends, said ends being spaced apart and located at the sides of the rear of said garment, said strips having elongated, lower end portions extending freely beneath said pockets across said band, and means securing said lower end portions throughout their lengths to said band to maintain said stiffener strips extending upright therefrom.

2,613,358

BATHING CAP

William D. Timmons, Coshocton, Ohio, assignor to Pretty Products, Inc., Coshocton, Ohio, a corporation of Ohio

Application November 1, 1949, Serial No. 124,793
3 Claims. (Cl. 2—68)



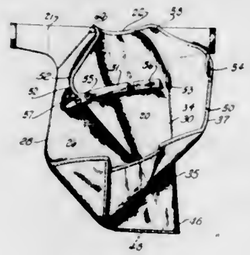
1. A bathing cap of resilient rubber-like material having its inner surface provided with integral inwardly extending parallel spaced resilient sealing ribs near the edge thereof and provided also with separate resilient integral buttresses extending substantially normal to and connected independently of each other with the adjacent sides of said ribs, the buttresses of one of said ribs extending in opposite direction and towards and being staggered with respect to those of another rib, so as to permit flexing action of said ribs independently of each other.

2,613,359

INFANT'S GOWN

Mabel C. Boyce, Danbury, Conn.

Application March 23, 1949, Serial No. 83,050
2 Claims. (Cl. 2—69.5)



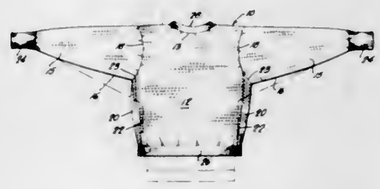
1. An infant's gown comprising a rear panel and sleeves integral with the rear panel, each sleeve having an undersleeve seam which joins the sleeve into a tubular formation, an inner front panel immediately adjoining the rear panel in closed position, stitched to one sleeve along a diagonal seam, free from the other sleeve, stitched to the rear panel along one side and the bottom and loose at the other side, an outer front panel immediately adjoining and overlapping the inner front panel in closed position, stitched to the other sleeve along a diagonal, stitched to the rear panel along the other side and bottom, and loose at the one side, the sleeves at the top extending substantially straight across and there being a neck recess at the top in the space between the sleeves, the front panels opening wide at the top so that an infant can rest on the rear panel without discomfort from any back sleeve seams while the gown is being taken off or put on.

2,613,360

ATHLETIC GARMENT OR THE LIKE

Samuel N. Friedland and William F. Feinbloom, Rochester, N. Y., assignors to Champion Knitwear Company, Inc., Rochester, N. Y.

Application August 13, 1951, Serial No. 241,582
5 Claims. (Cl. 2—90)



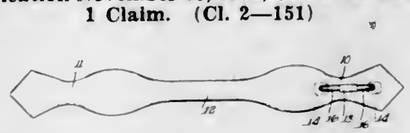
1. A garment of the class described comprising a section of knitted material having its knitted courses extending generally horizontally in the garment body such that said garment body is subject to a reduction in width when laundered or stretched longitudinally, and an expansion gusset included in said garment body, said expansion gusset being made of knitted material having knitted courses in generally normal relation to said horizontally extending knitted courses of the garment body so as to expand in a manner to compensate for said reduction in width of the garment body.

2,613,361

TIED CLIP-ON BOW TIE

Julius A. Hirsch, Chicago, Ill., assignor to Cutter Cravat, Inc., a corporation of Illinois

Application November 30, 1951, Serial No. 259,266
1 Claim. (Cl. 2—151)



A tied clip-on bow tie comprising, a single tie member having a pair of wing portions and a free central knot portion of less length than either of the wing portions, and an attaching clip secured only to one of the wing portions, said single tie member being tied into a bowknot with the wing portions forming overlying loops and ends, with the free central knot portion encircling and forming a central knot about the wing portions and the attaching clip and with the attaching clip exposed and extending outwardly from each side of the central knot for clipping the tied bow tie to a collar.

2,613,362

TIED CLIP-ON BOW TIE

Julius A. Hirsch, Valparaiso, Ill., assignor to Cutter Cravat, Inc., a corporation of Illinois

Application March 3, 1952, Serial No. 274,591
3 Claims. (Cl. 2—154)



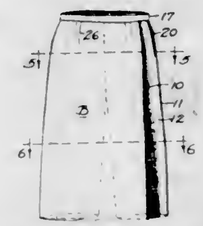
1. A tied clip-on bow tie comprising, a single tie member having a pair of wing portions and a free central knot portion of less length than either of the wing portions and consisting of front and rear fabric pieces secured together completely about their edges with an inside seam and including fabric stiffening pieces secured between the front and rear fabric pieces in the wing portions only of the tie member, and an attaching clip secured only to the rear fabric piece of one of the wing portions, said single tie member being tied into a bowknot with the stiffened wing portions forming overlying loops and ends, with the unstiffened free central knot portion encircling and forming a central knot about the wing portions and the attaching clip and with the attaching clip exposed and extending outwardly from each side of the central knot for clipping the tied bow tie to a collar.

2,613,363

PEDAL SKIRT GARMENT

George Thomas Morgan, Pacific Palisades, Calif.

Application December 12, 1950, Serial No. 200,386
1 Claim. (Cl. 2—212)



In a combination garment having a belt defining the waist extremity thereof: an inner garment comprising front and rear sections, side seams joining said front and rear sections to define respective side margins of the garment, at least one of said seams terminating at a point below said belt to define a slit in the corresponding side margin, for opening said inner garment at said waist extremity, and separable fastener means for closing said slit, said inner garment comprising a complete, independent bifurcated garment the lower portion of which comprises a pair of laterally separated pantaloon leg members; and in combination therewith, a pair of front and rear panel members, each secured throughout its width at its upper extremity to said belt along the upper extremity of a respective one of said inner garment sections and extending downwardly from said belt to the lower extremities of said leg members throughout the full length of said bifurcated inner garment, said panels corresponding substantially in shape and area to the front and rear areas of the bifurcated garment, respectively, and, in their normal, freely pendant positions, substantially covering said front and rear areas so as to completely conceal

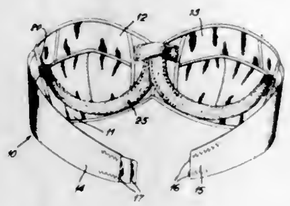
the separation of said leg members, said panels being said front and rear panels having lateral margins attached to the inner garment at the opposite side seams thereof, each panel being thus attached to a respective side seam at one of its lateral margins, extending substantially the width of the inner garment, and having its opposite lateral margin free and slightly spaced from the other side seam to provide a pleated effect adjacent said other side seam.

2,613,364
FLEXIBLE BRIDGE
Clifton Hurtt Deringer, Patton, Pa.
Application November 1, 1949, Serial No. 124,904
2 Claims. (Cl. 2—255)



1. A wrinkle preventer, said wrinkle preventer comprising a rectangularly shaped flexible body, said body having an I-shaped slot therein thereby forming inwardly extending flanges within the lines of the body, struck-out flexible lugs struck-out from portions of the flanges adjacent their sides and extending in the same direction as the direction of each flange, said lugs adapted to grip seam flanges and clamp the seam flanges against the flanges of the wrinkle preventer.

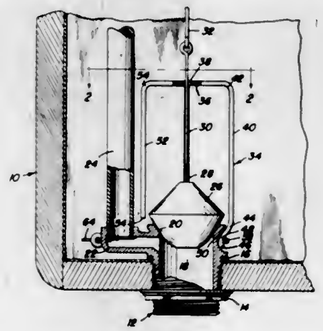
2,613,365
DETACHABLE WIRE FRAME FOR BRASSIÈRES
Lee Fairbanks, Jackson Heights, N. Y., and Paul Rosenfeld, Newark, N. J.
Application July 14, 1949, Serial No. 104,752
1 Claim. (Cl. 2—302)



A wire frame attachment for brassières and the like, comprising a cloth tape which consists of two arcuate portions joined together at one end, a pair of arcuate cloth sheaths, snap fasteners on said tape and said sheaths for detachably securing said sheaths to said tape, and a wire frame having two arcuate portions which are joined together at one end, said arcuate portions of the wire frame being removably inserted in said cloth sheaths.

2,613,366
TANK BALL GUIDE
Orren J. Walter, Cheyenne, Wyo.
Application December 27, 1949, Serial No. 135,172
1 Claim. (Cl. 4—57)

In a tank flush valve of the type including a discharge conduit having a ball valve seat formed in its upper end and an L-shaped conduit connected to said discharge conduit and formed integrally therewith, and a ball valve engaging said seat and having a lift rod attached thereto; an improvement comprising a guide having an aperture slidingly receiving said lift rod, a plurality of elongated valve guide members extending radially outward in spaced angular relation to each other from said guide and having their upper ends attached thereto, each of said members being bent and extending downwardly in spaced parallelism to each other and each having an arcuate clamp seat formed adjacent its lower end by being curved inwardly and then outwardly with respect to the guide, said discharge conduit being provided with a seating groove adjacent its upper end receiving the curved portions of the

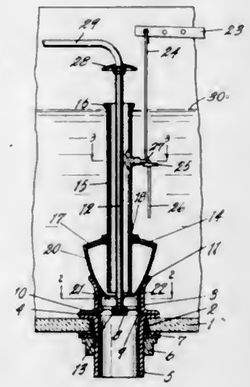


guide members forming the seats, a further elongated guide member having one end secured to the guide and extending radially outwardly therefrom and thence downwardly parallel to the guide members and terminating at its other end spaced above the juncture of the conduits, and a clamp including a substantially U-shaped member having spaced legs, the clamp being disposed about the lower ends of the guide members and seated in the seats formed therein, the legs of the clamp extending along opposite sides of the L-shaped conduit, and adjustable fastening means connecting the outer ends of the legs for urging the guide members into frictional engagement with the discharge conduit with the ball valve being disposed and guidingly retained between the guide members and the further guide member.

2,613,367
FLUSHING VALVE
Enos M. Denham, Grand Rapids, Mich., assignor to Dodge Tool & Manufacturing Company, Grand Rapids, Mich., a corporation of Michigan
Application August 18, 1949, Serial No. 110,995
10 Claims. (Cl. 4—58)

1. A flushing valve comprising a tubular valve seat member having an upwardly facing inwardly inclined valve seat, a bridge carried by said valve seat member disposed below its valve seat, an open tubular guide rod disposed on said bridge to project above said valve seat, an open tubular valve stem of a diameter substantially greater than that of said guide rod loosely and floatingly embracing the rod, a hollow valve of resilient material open at the bottom thereof but otherwise closed and comprising a top secured to the stem and through which the stem extends and curved downwardly tapering side walls, the lower end of the tubular stem being adjacent but above the edge of the opening of the valve and coacting therewith to provide an annular opening to the hollow valve around the stem, a stop on said

guide rod coacting with the upper end of the stem limiting the opening stroke of the valve, said stop constituting a baffle for water discharged upwardly through the stem, an arm on the stem having a downwardly projecting portion, an actuating link having an eye loosely re-



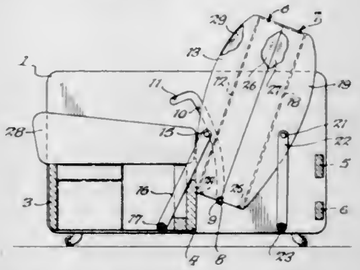
ceiving said downwardly projecting portion of said arm, and a refill tube opening to the upper end of said guide rod, said stem constituting an overflow passage opening to within said valve seat, said valve when lifted from its seat being open to the discharging water and constituting a float.

2,613,368
SHOWER CURTAIN
Maurice Rosenbaum, New York, N. Y.
Application May 21, 1951, Serial No. 227,300
2 Claims. (Cl. 4—154)



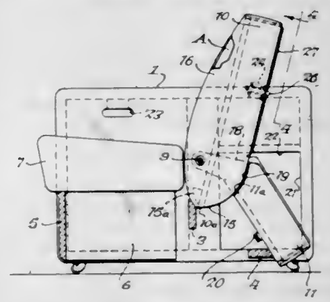
1. A shower curtain comprising a plurality of panels of flexible material, a pocket of flexible material in the shape of a truncated cone having an upper opening and a lower opening, said upper opening being larger than said lower opening, said pocket being in the form of a loop of material having side edges, means consisting of a stitched seam for joining the adjacent side edges of a pair of said curtain panels and for securing the side edges of said pocket material in said seam, said upper and lower pocket openings extending to said seam, said lower pocket opening extending across the entire bottom portion of said pocket.

2,613,369
COMBINED SOFA SEAT AND BED
Anton Lorenz, Buffalo, N. Y., and Harry Nock, Elizabeth, N. J.
Application December 18, 1948, Serial No. 66,043
16 Claims. (Cl. 5—16)



1. A sofa bed comprising a support, a mattress-supporting frame formed of front and rear sections, a hinge connecting said sections to fold together and open as a book with the hinged edge lowermost when folded, a link at each end of said support hinged at one end to said front section and at its other end to said support, said links being generally vertical and rearwardly inclined, when the sections are folded together, and movable forwardly through a vertical dead center position to carry said front section from folded position forwardly and downwardly into horizontal position, a flexible mattress confined in folded condition between the abutting faces of said frame when the sections are folded, and opening out into flat condition when the sections are opened flat, a seat cushion removably mounted on said support in front of said sections when folded, a cam element on said support, a follower guided by said cam element and carried by said hinge between said sections for guiding that hinge upwardly and forwardly as the sections are opened into flat, straight relation to each other, and a fulcrum member carried by said support and directly engaging with the rear section intermediate its front and rear edges and supporting it for rocking and forward and rearward movements as the sections are folded or opened.

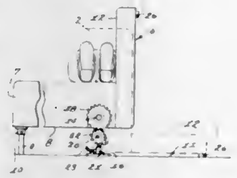
2,613,370
CONVERTIBLE SOFA SEAT AND BED
Anton Lorenz, Buffalo, N. Y.
Application December 2, 1948, Serial No. 63,048
7 Claims. (Cl. 5—43)



2. A sofa-bed comprising a support having upright end members connected by an intermediate portion, a shallow box of two sections disposed between said members, hinged together on an axis that extends between said members, and

hinged on the same axis to said end members intermediate the latter's front and rear edges, one of said sections being rockable on said axis forwardly from an upstanding position to an approximately horizontal position, and vice versa, the other section being rockable on said axis between a horizontal position and a rearwardly and downwardly inclined position, said one of said sections having a portion that overlaps and is engageable with the other section to cause movement together of said sections after they form approximately a straight angle as said one section moves towards horizontal position, a flexible mattress disposed in said box and exposed and facing upwardly when the sections are horizontal, a stop carried by said one section and movable into and out of locking engagement with said support when said one section is in said horizontal position, and a seat cushion removably supported on said support between said members and abutting at its rear edge against said one box section when that section is upstanding and removable when one desires to move said one section into its said horizontal position.

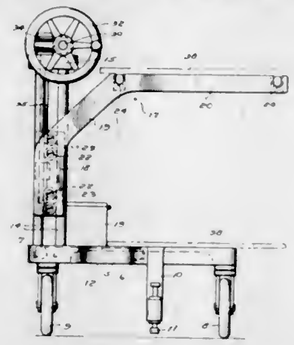
2,613,371
TURNOVER BED
Kenneth S. Keyes, Jr., South Miami, Fla.
Application June 16, 1950, Serial No. 168,617
1 Claim. (Cl. 5—61)



In a turn-over bed, a mattress assembly comprising a main mattress normally occupying a horizontal position, a secondary mattress secured to a side edge of the main mattress and normally occupying a vertical position and extending upwardly from the main mattress, supporting means for supporting said mattress assembly in vertically spaced relation to and upon a floor to rotate from the normal position to an alternate position in which said secondary mattress is in a horizontal position and said main mattress is in a vertical position and extends above the secondary mattress, and rotating means connected to said mattress assembly and arranged to act between said mattress assembly and the floor for rotating said assembly between the normal and the alternate positions thereof, said main and secondary mattress having feet extending therefrom to supportably engage the floor at points spaced laterally outwardly from the axis of the supporting means in the normal and alternate positions of the mattress assembly.

2,613,372
MOBILE TRANSFER DEVICE FOR A LITTER AND OPERATING TABLE
Samuel A. Waterman, Miami, Fla., assignor, by mesne assignments, to Samuel A. Waterman and Gene Waterman
Application June 18, 1949, Serial No. 99,922
3 Claims. (Cl. 5—86)

1. A mobile operating and transfer table comprising a base frame including spaced and horizontally arranged frame members, rigid bars connected to the frame members for providing a generally U-shaped open front frame, caster wheels carried at the four corners of the frame, a pair of vertically arranged and parallel rods supported by the rear ends of each frame member in spaced relation, bearing blocks rigidly attached to the upper ends of each pair of rods, a brace tie rod connecting the bearing blocks, elevating arms arranged at either end of the table outwardly of the rods, means carried by the arm for antifriction sliding engagement with the rods in a vertical plane, guide means for maintaining the arms in traverse position upon the rods, said



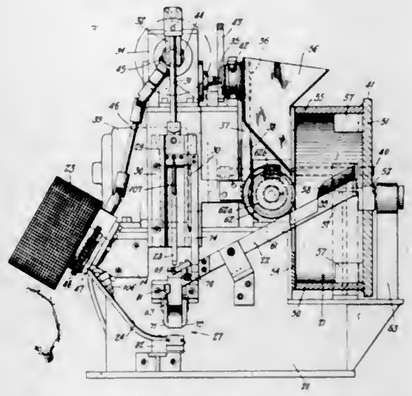
arms each including a horizontal support, said supports being parallel with respect to each other for the detachable reception of a body supporting table, an operating shaft journalled at each end in the bearing blocks and projecting therebeyond and provided with hand wheels at each end, gear means carried by the shaft and means controllable by the gear means and having operative connection with the guide means for imparting simultaneous vertical movement to the arms and stop means carried by the frame members for maintaining the table against shifting upon its caster wheels.

2,613,373
BOW FACING OAR
Louis Magdits, Chicago, Ill.
Application March 15, 1949, Serial No. 81,425
1 Claim. (Cl. 9—25)



A bow facing oar comprising a bracket including a bar for mounting on the gunwale of a boat, longitudinally spaced, aligned bearings on said bar, a U-member, comprising threaded legs, having its bight portion journalled in said bearings, parallel sleeves journalled, at an intermediate point, on said legs, handle and blade oar sections fixed in said sleeves and projecting from opposite ends thereof, said legs passing diametrically through said sleeves and said oar sections, inwardly curved arms on the other ends of the sleeves, a link pivotally connected to said arms, a brace having its end portions journalled on the legs and resting on the sleeves, and retaining nuts, for said sleeves and said brace, threaded on said legs.

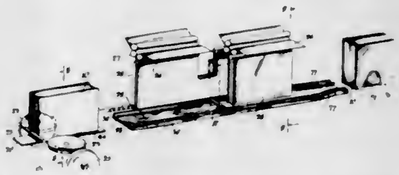
2,613,374
FASTENER AND WASHER ASSEMBLING
Henry Z. Gora, Stratford, Conn., assignor to The Gora-Lee Corporation, Stratford, Conn., a corporation of Connecticut
Application November 19, 1947, Serial No. 786,849
10 Claims. (Cl. 10—155)



1. A machine for assembling nails and washers comprising in combination a nail hopper, a washer hopper, means presenting the nails one at a time from the nail hopper to an assembly position, means presenting the washers one at a time from the washer hopper to the assembly position in axial alignment with the nail, and means driving the positioned nail into the positioned washer, characterized by the fact that there is a chute carrying a succession of nails from the nail hopper to the assembly position; means to spread out said nails in evenly spaced contacting relationship; and means at the assembly position positively moving one nail at a time from the end of the chute laterally into position over a located washer, and further by the fact that there is a washer chute carrying the washers from the washer hopper to the assembly position and means delivering one washer at a time in spaced non-contacting relationship from the washer hopper to the washer chute to be carried therein out of contact with preceding or succeeding washers and presented one at a time to said assembly position.

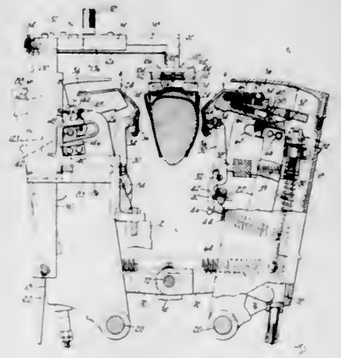
2,613,375
APPARATUS FOR GLUING-OFF AND END SHEET PASTING
Edwin K. Smith, Jr., New York, and Charles W. Buckley, Mount Vernon, N. Y., assignors, by mesne assignments, to The de Florez Company, Inc., a corporation of Delaware
Application December 17, 1948, Serial No. 65,764
4 Claims. (Cl. 11—1)

4. In the manufacture of books, the apparatus comprising, conveying means for continuously advancing successive page blocks endwise in a vertical upright position with their binding edges downward along a predetermined path, a jogger operable on each advancing page block, adhesive applying means arranged to apply a narrow strip of adhesive to the outside sheets of each advancing page block adjacent to the binding edge of said page block, other conveying means for ad-



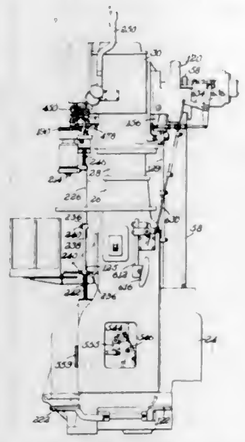
vancing end sheets into position alongside the outside sheets of each advancing page block, means to press the end sheets into adhesive contact with the strips of adhesive on the outside sheets of each advancing page block, other adhesive applying means arranged to apply adhesive to the binding edge of each advancing page block, and a drier arranged to dry the adhesive applied to the binding edge of each advancing page block.

2,613,376
LASTING MACHINE
Theodore P. Courchene, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application April 9, 1949, Serial No. 86,425
11 Claims. (Cl. 12—8.1)



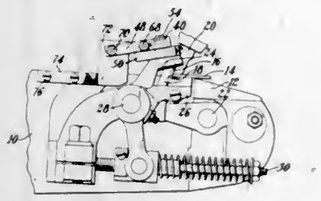
9. In a lasting machine, means for lasting the shank portion of a shoe having an insole provided at the inner side of its shank portion with a lateral extension arranged to overlap a portion of the inner side face of the last, a holddown movable heightwise of the shoe by the operator prior to the starting of the power operation of the machine into position to press the shank portion of the insole on the bottom of the last, said holddown including means for engaging said lateral extension of the insole and for holding it against the side face of the last, a device for retaining the holddown in operative position, a shoe support movable to carry the shoe heightwise with the holddown to cause the lasting means to wipe the upper heightwise of the last, means for causing said device to release the holddown in response to the movement of the shoe support, and spring means for moving the holddown heightwise of the shoe away from the insole when it is thus released.

2,613,377
MACHINE FOR USE IN MAKING INSOLES
Norman E. Mariner, Beverly, and Lloyd G. Knowles, Hamilton, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 3, 1948, Serial No. 58,082
27 Claims. (Cl. 12—20)



1. In a machine for applying ribbed strips to insoles to form sewing ribs thereon, the combination of a yielding table for supporting an insole, a four-motion feed foot above the table through which the strip is guided, pawls in the feed foot for feeding the strip relatively to the insole, and a plate on the feed foot for pressing the margins of the strip upon the insole and for feeding the insole.

2,613,378
MARGIN-STRETCHING WIPER FOR FOLDING MACHINES
Alfons Oswald, Zurich, Switzerland, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 21, 1951, Serial No. 247,687
In Great Britain November 10, 1950
6 Claims. (Cl. 12—55)

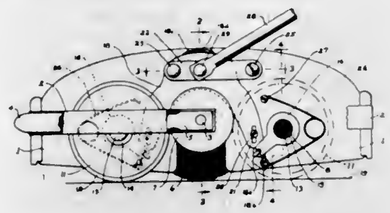


1. In a machine of the character described, a folding member, work gripping and feeding mechanism movable along the margin of the work to feed it, said mechanism including a hammer mounted for movement to press the fold against the work, a work stretcher movably mounted on the hammer, and means to actuate said stretcher during its movement parallel to the margin of the work to stretch the folded margin tightly over the work.

2,613,379

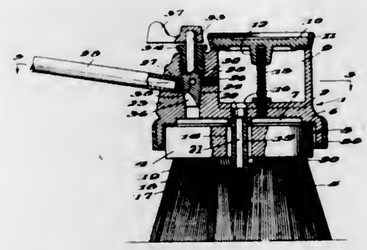
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2,613,380
CARPET SWEEPER WHEEL LINKAGE
Paul Heftler, Windsor, Ontario, Canada
Application April 23, 1946, Serial No. 664,390
8 Claims. (Cl. 15—41)



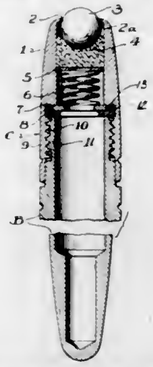
1. In a carpet sweeper, a case, a brush mounted to turn on a fixed axis in the case and having friction pulleys on its ends outside of the case, four wheels movable up and down with respect to the case, one wheel being located on each side of each pulley and arranged to roll on the floor and against the pulley to drive the brush, end covers outside of the pulleys and the wheels, levers lying outside of the pulleys and the wheels and inside of the end covers, each lever being connected at one end to an end cover and at the other end to a wheel, and a handle connected to each lever between its ends.

2,613,381
FOUNTAIN BRUSH IMPLEMENT
Irvin L. Tucker, Cedar Rapids, Iowa
Application July 30, 1948, Serial No. 41,561
6 Claims. (Cl. 15—129)



1. In a self-contained fountain brush implement, a housing comprising a base, recessed on its underside to form a water chamber, a brush element including a brush block removably mounted in said recess and spaced outwardly from the base thereof to form one wall of said water chamber and a brush proper secured to said brush block, a soap chamber formed on the upper side of said base, a water discharge opening extending through the center of said brush block placing said water chamber in communication with the brush proper, a soap mixture discharge tube placing said soap chamber in communication with said brush proper and extending concentrically through said water chamber and water discharge opening, in spaced relation to the latter, means connecting a water supply tube to said housing, a two-way valve for selectively directing the flow of water from said tube either to said soap chamber or said water chamber, a handle secured to said means and a valve control lever located in close proximity to said handle.

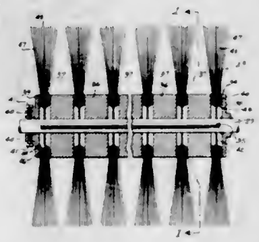
2,613,382
LIQUID DISPENSING DEVICE HAVING A GLOBULAR COMBINED APPLICATOR AND OUTLET VALVE
Louis L. Patterson, Los Angeles, Calif.
Application September 9, 1946, Serial No. 695,711
1 Claim. (Cl. 15—132.7)



A liquid dispensing device having a combined applicator and outlet valve, comprising an elongated, fusiform article having a hollow body portion, an elongated, open-ended cap having a somewhat tapered nose portion with a concentric circular dispensing mouth portion, a ball valve occupying said mouth portion, a leak-preventing gasket in said mouth portion surrounding said valve, said valve being of greater diameter than said mouth and normally in part projecting therefrom, a body of spongy material within said cap and in continual contact with a portion of said ball valve, an annular washer loosely fitted within said cap in an underlying relation to said body of spongy material, a spiral compression spring one end of which abuts against said washer pressing the latter against said body of spongy material, a second annular washer against which the opposite end of said spring abuts, said second washer being externally screwthreaded and said cap having an internally screwthreaded skirt with an unthreaded annular pocket at the inner end of its screw-threaded part, said second washer being insertable into said pocket by screwing it through said threaded part of said skirt; whereby to hold said ball valve, body of spongy material, said first washer and compression spring in an assembled relation with said cap, there being, toward the dispensing end of the article in relation to said pocket, an annular shoulder which forms an end wall of said pocket and against which said second washer flatly abuts, and an annular gasket occupying said pocket and underlying the side of said second washer opposite to said shoulder, said screwthreaded skirt of said cap being screwed onto an externally threaded end of said body portion in such a manner as to clamp said annular gasket between said open end of said body portion and said second washer in a liquidtight manner.

2,613,383
ROTARY VEHICLE WASHING BRUSH
Leo J. Rousseau, Grosse Pointe, Mich., assignor to Minit-Man, Inc., Detroit, Mich., a corporation of Michigan
Application July 2, 1948, Serial No. 36,691
1 Claim. (Cl. 15—181)

A rotary vehicle washing brush with removable and replaceable brush units comprising a driving shaft, and a multiple stacked brush unit and spacer assembly mounted on said shaft, said assembly including a plurality of bristle hubs of substantially equal diameters removably mounted on said shaft in axially spaced relationship and drivingly connected to said shaft, each hub comprising a disc having a central shaft aperture and an enlarged rim portion with an annular peripheral groove therein, said groove being of arcuate cross-section and said rim being secured to and integral with said disc, a multiplicity of tufts of approximately U-shaped



bristle fibers having their connecting portions seated in each groove and having their free end portions projecting radially outward therefrom, an annular bristle-binding element encircling each annular groove outwardly of said connecting portions and securing said bristle tufts in said grooves, spacing collars of substantially the same diameters as said hubs removably interposed between successive discs in engagement with the sides of said rims, and retaining collars secured to said shaft at the opposite ends of said assembly, at least one of said retaining collars being removably secured to said shaft.

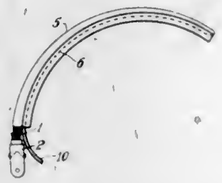
2,613,384
WINDOW WASHING AND WIPING DEVICE
Edward W. Collins, Chicago, Ill.
Application July 18, 1950, Serial No. 174,470
5 Claims. (Cl. 15—244)



1. A window cleaning implement comprising a substantially T-shaped member receiving a handle at its lower end, a holder journaled in the head of the member to be rockable in a plane transverse of said head, a window cleaning element carried by the holder and normally projected therefrom in a direction opposite from the shank of the member, and means operated by the rotation of the handle to rock the holder and tilt said element to a position at an angle to the shank for edgewise application to the window, the shank having a longitudinal bore, and said means comprising a shaft connected to the handle at one end and passing through said bore to terminate with its other end in a cavity made in the headpiece, a spur gear carried by said other end, a second spur gear journaled in the head at right angles to the first spur gear,

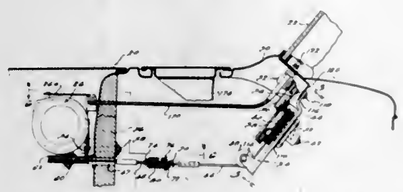
a third spur gear carried by said holder and in mesh with the second spur gear, and a gear projecting from the face of the second spur gear in meshing relation with the first spur gear.

2,613,385
WINDSHIELD WIPER HAVING A CURVED SPRING WIPER ARM
Hamilton Neil Wylie, Richmond, England, assignor to Dunlop Rim & Wheel Co. Ltd., London, England, a British corporation
Application July 9, 1947, Serial No. 759,815
In Great Britain July 5, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 5, 1965
6 Claims. (Cl. 15—250.3)



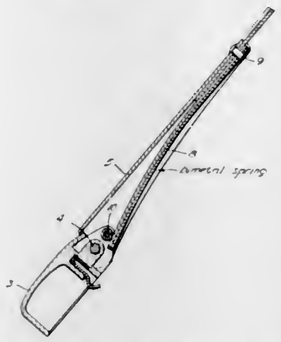
1. A windshield wiper which comprises a pivoted base, a spring wiper arm mounted on said base, curved in a plane radial to the pivotal axis of said base and of progressively decreasing stiffness at increasing distance from said base, and a squeegee of relatively soft material mounted directly on said arm lengthwise thereof and on the inner side of its curvature.

2,613,386
WINDSHIELD WIPER DRIVE MECHANISM
Emil E. Sivacek, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application November 13, 1945, Serial No. 628,159
16 Claims. (Cl. 15—253)



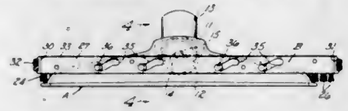
1. In a vehicle windshield wiper system, a plurality of spaced wiper actuating shafts, a power transmitting mechanism, transmission means coupling said shafts and mechanism, a unitary mounting means adapted for securement in predetermined relation to said windshield, said shafts, mechanism and transmission means being carried by said mounting means and being supported thereby in predetermined positions with respect to each other, motive mechanism for moving said shafts and adapted to be carried by said vehicle remotely from said mounting means, additional transmission means coupling said motive mechanism to said power transmitting mechanism, and means common to said shafts and operable to simultaneously adjust the location of the arc of movement of each of said shafts relative to said windshield.

2,613,387
WINDSHIELD CLEANER
John R. Oishei, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application February 4, 1947, Serial No. 726,396
12 Claims. (Cl. 15—255)



1. A wiper arm for windshield cleaners, having a movable wiper carrying part, and resilient means acting on said part to impose a spring urge upon a carried wiper, said resilient means including a thermoresponsive element for varying the spring urge upon the wiper in accordance with predetermined temperature changes.

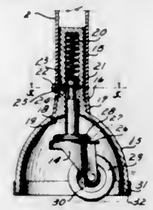
2,613,388
VACUUM CLEANER AIR NOZZLE AND ADJUSTABLE BRUSH THEREFOR
Frank G. Walker, Santa Barbara, Calif.
Application March 15, 1947, Serial No. 735,005
5 Claims. (Cl. 15—373)



1. A combination brush and air nozzle attachment for vacuum cleaners of the tank type comprising a nozzle member having an elongated, downwardly extending open end adapted to be moved over a carpeted area in intimate contact therewith for cleaning same, means for detachably connecting the nozzle member to the suction tube of a tank-type vacuum cleaner, a brush assembly comprising a frame of greater length than the nozzle member adapted to extend around the periphery of the open end of the nozzle member and a plurality of brushes extending downwardly therefrom in the front and rear of the nozzle member, and mounting means for positioning the brush assembly comprising a plurality of pins extending through the nozzle member received in a plurality of inclined slots in the frame of the brush assembly whereby the brush assembly will be moved up and down as it is moved longitudinally with respect to the nozzle member and the frame will extend beyond an end of the nozzle, said slots being formed with substantially horizontal end portions operative in one longitudinal position of the brush assembly for retaining the brush assembly with the brushes spaced above the open end of the nozzle member to permit the cleaning of carpeted areas and in the opposite longitudinal position of the brush assembly for retaining the brush assembly with the brushes extending below the open end of the nozzle member whereby the attachment may be utilized for cleaning bare floor areas,

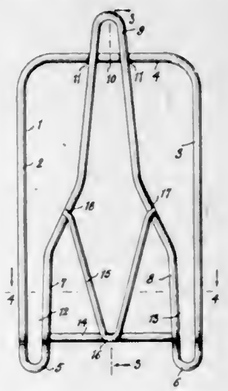
said brush assembly being free to move vertically and horizontally within the range permitted by said pins and slots in response to pressure on either end of said frame.

2,613,389
COMBINED FOOT AND SPRING SUPPORTED CASTER
Roy A. Cramer, Kansas City, Mo.
Application September 15, 1949, Serial No. 115,800
2 Claims. (Cl. 16—44)



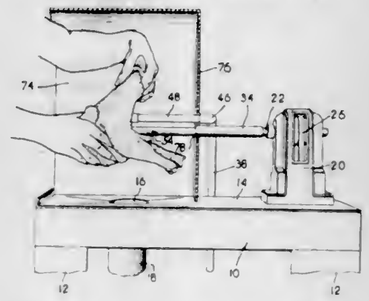
1. A caster mounting for an article of furniture having a leg with an opening extending axially thereof, a shank, the lower end of said shank having a thickened portion adapted to engage in said opening whereby forcing of the shank in said opening will center the same therein and prevent rotation thereof, said shank being axially bored and having its upper end closed forming a socket therein, a substantially bell-shaped member secured to the lower end of said shank and having a non-skid member on its lower edge, a caster having a stem rotatably mounted in said socket, the upper end of said stem being spaced from the closed end of the shank, a coil spring having one end engaging against the closed end of said shank and its other end against the upper end of the stem on the caster and normally urging the caster downwardly, and means in said shank and stem cooperating to retain the stem in the socket to limit movement of said caster by said spring and adapted to cooperate with a tubular leg to retain the shank in the opening thereof.

2,613,390
POULTRY SHACKLE
Edward T. Wayne, Port Crane, N. Y., assignor to E. H. Titchener & Co., Binghamton, N. Y, a corporation of New York
Application March 14, 1951, Serial No. 215,532
9 Claims. (Cl. 17—44.1)



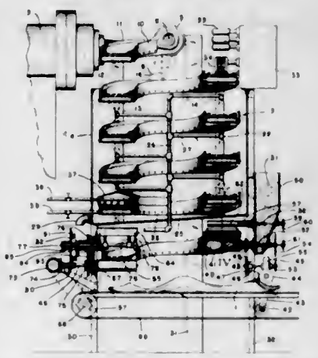
1. In a poultry shackle, a section of metallic rod defining a three-sided frame, said frame having side bars, said bars having upward bends at one end to form a pair of leg-receiving loops located at one end of the frame, said upwardly-bent portions of the side bars presenting parts positioned within the frame, bracing elements extending between the said parts, one of said bracing elements being a rigid V-shaped member for the reception of the neck of a fowl.

2,613,391
PREPARATION OF DRAWN POULTRY CARCASSES
Sidney S. Still, Orlando, Fla.
Application January 6, 1950, Serial No. 137,223
3 Claims. (Cl. 17—45)



1. In the preparation of a drawn poultry carcass for distribution and use, the method of removing the lungs from said carcass which includes vigorously brushing the insides of the carcass in the immediate vicinity of the lungs to loosen them from the carcass and while so brushing said carcass directing water into the carcass to flush out of the carcass matter loosened by the brushing thereof.

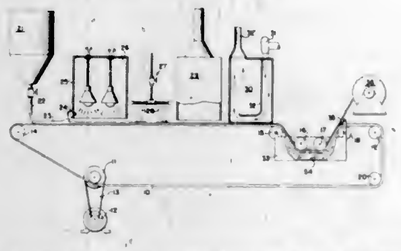
2,613,392
APPARATUS FOR MANUFACTURING INNER TUBES
Raymond F. Ternes, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application June 21, 1949, Serial No. 100,348
12 Claims. (Cl. 18—2)



1. An apparatus for manufacturing inner tubes comprising, a horizontally disposed tuber for extruding inner tube stock in a substantially circular cross-section, a helical conveyor having a vertical axis, said conveyor comprising a series of closely spaced rollers arranged in a continuously and progressively descending path extending spirally around said vertical axis, to

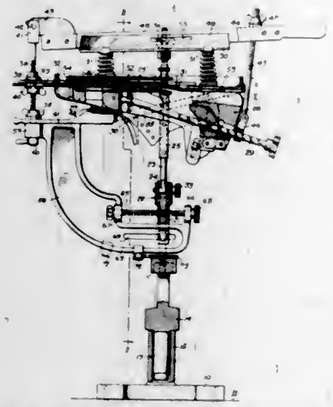
provide a series of rolling surfaces along which the extruded stock moves in a continuous downwardly spiral path, and a driven conical roller positioned above the helical conveyor and adapted to direct the stock from the tuber to the conveyor.

2,613,393
APPARATUS FOR PRODUCING WRINKLE TEXTURE ON NONWRINKLING FILMS
William F. Flanagan, Dayton, Ohio, assignor to New Wrinkle, Inc., Dayton, Ohio, a corporation of Delaware
Original application November 12, 1946, Serial No. 709,310, now Patent No. 2,510,966, dated June 13, 1950. Divided and this application November 16, 1949, Serial No. 127,962
3 Claims. (Cl. 18—15)



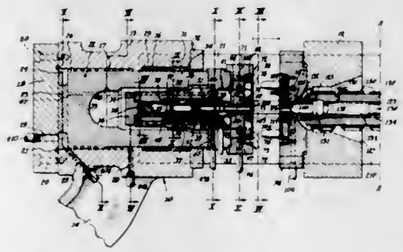
1. An apparatus for producing wrinkle textured films comprising a belt having an upper strand, means for driving said belt, and in sequential arrangement above the said upper strand in the direction of travel thereof, means for dispensing a liquid wax coating onto said belt, means for dispensing a resin solution onto said wax coating, means including a heating element for developing a skin on the surface of said resin solution on the side thereof remote from said wax coating, means for applying finely dispersed water droplets onto said skin, and heating means comprising heating coils in a geometric configuration for drying said resin in a predetermined pattern, said pattern being formed of wrinkles of different sizes.

2,613,394
SHOE SOLING APPARATUS
William H. Doherty, Elmhurst, N. Y.
Application October 18, 1949, Serial No. 121,937
9 Claims. (Cl. 18—17)



1. In a device of the class described, a frame, said frame adapted to receive a shoe supported thereon at the top thereof with its sole portion facing upwardly, a mold-supporting plate on the frame adapted to be disposed around the sole, a pivotal lever operatively connected to said plate, said lever having an elongate slot therein, a bar adjustably pivoted within said slot, a slot in said bar, a pin on said lever which rides in the second mentioned slot, and springs disposed beneath said bar and adapted to bear upon the heel and sole portions of said shoe to flatten them into planar position, and means associated with said lever and frame to adjust the lever in a predetermined position to vary the pressure on said springs.

2,613,395
APPARATUS AND METHOD FOR PRODUCING DISK PHONOGRAPH RECORDS
Abraham I. Massler, Irvington, N. J., assignor to M & W Company, Inc., Newark, N. J., a corporation of New Jersey
Application February 24, 1949, Serial No. 78,065
6 Claims. (Cl. 18—30)

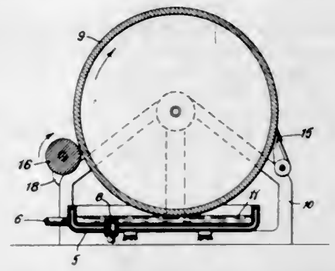


1. An injection molding machine comprising fixed and movable chilled dies defining, when closed, a mold cavity, a sprue bushing opening through opposed surfaces of said fixed die, said bushing having a longitudinally continuous one-diameter bore, one end of said bore opening into said cavity, an injection cylinder having a nozzle end engaging the other end of said sprue bushing, an elongated rod having the diameter of said bore and movably supported with respect to said movable die co-axially of said bushing bore, said rod being movable from a retracted position clear of said cavity to a position extending across said cavity, through the entirety of said bushing and into said nozzle, means to pressure inject heated thermoplastic material from said cylinder through said bushing bore into said cavity in the retracted position of said rod to form a molded product having an integral sprue within said bushing bore, and means to then move said rod from the retracted position to said extended position to sever the sprue from said product and to return the sprue to the nozzle end of said injection cylinder.

2,613,396
METHOD FOR FLAKING FUSED CRYSTALLINE SOLIDS
Duncan Bain Montgomery, Gardenville, and Edward V. Hegg, Eggertsville, N. Y., assignors to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application June 12, 1947, Serial No. 754,304
2 Claims. (Cl. 18—47.5)

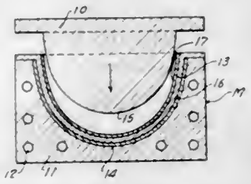
1. The method of producing flakes of a material characterized by readily forming a supercooled liquid upon cooling from the molten state and solidifying very slowly if cooled too far below the solidification point, which comprises forming

the material in a molten state into a broad thin film of uniform thickness throughout its width, moving said film through a cooling zone whereby said film is progressively cool, continuously stressing said film by dividing the same across its full width into two parts at that place along said film where the material has been cooled to approximately its solidification point, continuously



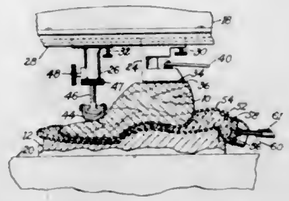
spacially separating one of said parts from the other, continuously stressing said parts by reuniting the same at differential velocities, the stressing occasioned by said dividing and reuniting of said parts of said film initiating the solidification thereof, moving said reunited parts through a cooling zone to continue such solidification, and thereafter breaking up the reunited parts into flakes.

2,613,397
MANUFACTURE OF MOLDED ARTICLES
Gustave W. Borkland, Marion, Ind., assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application May 29, 1946, Serial No. 672,954
3 Claims. (Cl. 18—55)



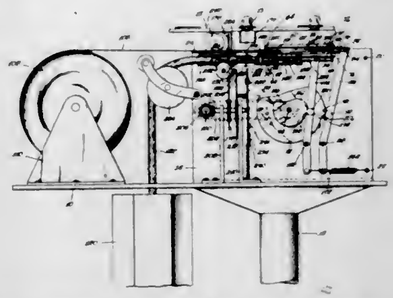
1. The method of molding compositions formulated with a low pressure thermosetting resinous binder comprising the steps of positioning onto a mold surface a caul member preformed to mold shape of a rigid thermoplastic material having sufficient elasticity under the conditions of molding to deform for transferring the exact shape of the mold to the material being molded but having sufficient thickness to prevent transfer of imperfections from the mold surface, depositing the molding composition in the caul member, bringing the mold parts together to effect molding operations whereby the caul member is made to conform exactly to mold shape for transfer to the molding material without transfer of the imperfections in the mold surface, said molding operations being continued until the resinous binder is advanced to a set stage, removing the caul member with the molding material therein from between the mold parts and continuing the advancement of the molding material separate and apart from the mold parts while still being located within the caul members until the resinous binder is converted to a cured stage, and then stripping the caul member from the material molded therebetween.

2,613,398
METHOD FOR MAKING INNER MOLDS
Ernest M. Crowell, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application December 10, 1947, Serial No. 790,894
8 Claims. (Cl. 18—55.05)



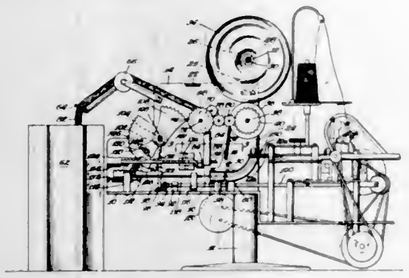
1. The improvement in methods of making inner molds for shoes which comprises placing a dry granular mixture of shredded cork, finely divided thermoplastic resin and plasticizer in a container having flexible impervious walls, shaping the mixture by a surface approximating the bottom of a foot, removing air from the container to shrink the walls by atmospheric pressure to retain the mixture in the shape imparted to it, removing the container and mixture from contact with said surface while retaining said shape, heating the container and its contents to a temperature sufficient to soften the resin, and cooling the container and its contents.

2,613,399
METHOD AND MACHINE FOR MAKING GLOBULAR SURGICAL SPONGES
Howard C. Riordan, Oak Park, and Wilfred S. Stone, Chicago, Ill.; said Stone assignor to said Riordan
Application November 6, 1946, Serial No. 708,026
8 Claims. (Cl. 19—144.5)



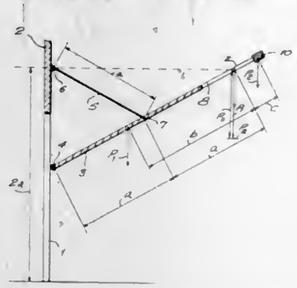
1. The method of making a globular, surgical sponge from a spool of strip gauze and cotton rope which comprises the steps of grasping the end of such strip of gauze and pulling it endwise across and into an assembling zone, of similarly pulling the end of a cotton rope into said zone so that an end portion thereof is adjacent one flat side of the gauze, of positioning a formative member on the other side of the strip gauze in transverse alignment with the rope section, of severing the end sections of the gauze and the rope in the zone from their main body portions, of pushing the rope section against the gauze and on through the formative member so that the gauze surrounds the cotton rope section with the corners as tails at one side thereof, and of then fastening the tails of the gauze to form a globular, surgical sponge.

2,613,400
METHOD AND MACHINE FOR MAKING GLOBULAR SURGICAL SPONGES
Howard C. Riordan, Oak Park, and Wilfred S. Stone, Chicago, Ill.; said Stone assignor to said Riordan
Application December 14, 1946, Serial No. 716,220
7 Claims. (Cl. 19—144.5)



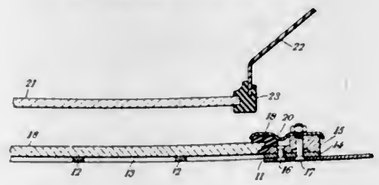
1. The method of making a globular surgical sponge from a spool of gauze and cotton rope which comprises the steps of feeding downwardly in side-by-side relationship the ends of the gauze and rope so that the rope is adjacent one surface of the gauze and disposed centrally of two sides thereof, of severing an end section of rope and an end section of gauze from the main body of the gauze while concurrently pushing the rope section along a substantially horizontal path against the gauze and into a formative member, pushing the cotton and gauze sections through an assembling plate, and of then fastening the tails of the gauze around the cotton rope core to form a surgical sponge.

2,613,401
TILTING DOOR
Jacob Wieland, Gorinchem, Netherlands, assignor to De Vries Robbe & Co. N. V., Arkelschedijk, Gorinchem, Netherlands
Application April 16, 1949, Serial No. 87,990
In the Netherlands April 2, 1948
4 Claims. (Cl. 20—16)



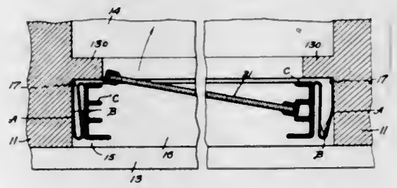
3. A closure means for closing and opening in a vertical structure, comprising, in combination, door means, including a door adapted to close said opening by sliding with the lower edge thereof in a vertical plane along said structure from a horizontal opening position to a vertical closing position, a weight means, and means securing said weight means to said door spaced from the top edge at such distance that the combined center of gravity of said door means is located in the upper portion of the same; and supporting means adapted to be pivoted at one end thereof to said structure in said vertical plane, said supporting means having substantially the length of half the distance between said lower edge of said door and said center of gravity, and being pivoted at the other end thereof to said door at a point located at equal distances from said lower edge of said door and said center of gravity, so that said center of gravity moves along a horizontal line during closing and opening of said door.

2,613,402
WINDOW FOR PRESSURIZED CHAMBERS
Arthur Gouge, Ryde, Isle-of-Wight, England, assignor to Saunders-Roe Limited, Osborne, East Cowes, Isle-of-Wight, England
Application October 11, 1950, Serial No. 189,541
In Great Britain October 13, 1949
4 Claims. (Cl. 20—40)



2. In a pressurised aircraft cabin having an outer skin with a porthole therein, the combination of a grid mounted in said porthole and comprising intersecting members attached at their opposite ends to said skin, said grid conforming with the contour of said skin and serving to transmit across the porthole the stresses in said skin arising from the pressure difference at altitude between the interior and the exterior of the cabin, an imperforate panel of transparent material of thickness insufficient to enable it, if unsupported, to withstand said pressure difference, said panel being held in close contact with the inner face of said grid by said pressure difference, and sealing means around the periphery of said panel for preventing the escape of air from the cabin through the porthole.

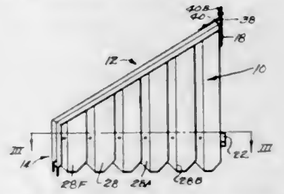
2,613,403
REMOVABLE WINDOW SASH MOUNTING
Harve E. Gardner, Jr., Lynchburg, Va., assignor of one-half to William C. Vaughan, Lynchburg, Va.
Application July 13, 1950, Serial No. 173,500
2 Claims. (Cl. 20—55)



1. In combination with a window frame, a window sash slidable therein, and means for resiliently and removably mounting said sash comprising a pair of channel strips extending vertically along the sides of the frame for the full extent thereof, each strip comprising a leaf portion secured along one edge only to a side of the frame, and a sash receiving channel member normally spaced from and resiliently connected to the leaf portion, said channel member including a base portion substantially parallel to the side of the frame, and being normally spaced a substantial distance from the side of the window

frame, whereby ready removal of the sash from the frame is permitted by forcing a channel member toward one side of the frame.

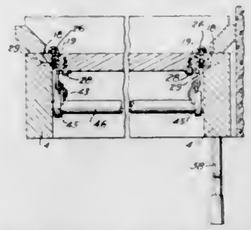
2,613,404
AWNING
James A. Jones, Memphis, Tenn., assignor to Reconstruction Finance Corporation, New Orleans, La., a corporation of the United States
Application September 6, 1949, Serial No. 114,230
6 Claims. (Cl. 20—57.5)



1. A metal awning comprising end walls, having top edges sloping downwardly from rear to front, transverse purlins connecting the tops of said end walls and supported by said walls, and a sloping roof supported by said purlins; said purlins including a wall contacting purlin and second purlin spaced therefrom, said wall contacting purlin being at the rear of said end walls and comprising a vertically disposed web portion adapted for attachment to a wall surface, and upper and lower flanges extending forwardly and downwardly in conforming slope to the top edges of said end walls and the second of said purlins being adjacent the front of said ends and including a forwardly facing upper flange, said roof including substantially identical channels disposed parallel with said end walls, and alternately faced with their flanges upward, forming trough channels, and downward, forming cover channels, said trough channels being disposed in transversely spaced relation with the rear ends of said trough channels being supported by the lower flange of said wall contacting purlin and secured thereto as by screws, and said upper flange overlying said ends and said screws but being free therefrom, and the forward portions of said trough channels being supported on but not attached to said second purlin, and said inverted cover channels each respectively having rigidly secured to the underside of its web portion an attaching clip including a flat web contacting portion, of a width equal to the space between adjacent trough channels, and a depending rearwardly faced ogee portion positioned and adapted for engagement with said forwardly facing flange of said second purlin, said cover channels being nested over and supported by the flanges of said trough channels with said clip web contacting portions respectively abutting adjacent trough channels and said ogee portions extending through the space between adjacent trough channels and engaging said second purlin flange, the rear ends of said cover channels underlying the upper flange of said wall purlin and secured to said wall purlin upper flange as by screws.

2,613,405
JALOUSIE
Tomlinson I. Moseley, Atherton, Calif.
Application August 24, 1948, Serial No. 45,829
7 Claims. (Cl. 20—62)

7. A jalousie comprising a framework, including opposed side members, a metal sealing member secured to and extending vertically of each side member, said metal sealing members occupying positions on the outer opposed corner of the side members, a plurality of slats, a metal sealing strip secured to the end of each slat, each sealing strip being of generally Z section



having an inner portion secured to a slat, a middle portion adjacent one end of such slat, and an outer portion engageable with the adjacent sealing member when the slats are closed to form a seal, and a pivotal connection between the upper end of each sealing strip and the adjacent sealing member.

2,613,406
CLOSURE AND FRAME CONSTRUCTION
Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 8, 1949, Serial No. 69,856
6 Claims. (Cl. 20—69)

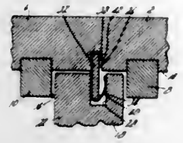


1. A closure and frame assembly comprising in combination, a closure, a frame for said closure, the closure and frame being formed to provide a peripheral channel on at least one horizontal and one vertical side of the closure, the channels at their outer facial side each having a restricted slit opening providing a clear entrance to the channel, the outer restricted slit opening being defined on at least one side by a relatively sharp pincer-like edge extending toward the adjacent opposed side of the slit opening, the outer slit opening being free from flatwise overlapping parts, the channels on the inner facial side each also having a restricted slit opening, the inner restricted slit opening of a horizontal side being located at an elevation higher than the lowermost portion of the channel, and weatherstripping closing the inner slit openings of the channels.

2,613,407
WEATHER STRIPPING
Harry B. Foresman, Oklahoma City, Okla.
Application July 25, 1949, Serial No. 106,692
8 Claims. (Cl. 20—69)

1. For use in connection with a window structure including a frame having a groove formed in the inner face thereof and a sash carried slidably in said frame and having a groove formed in

the edge thereof wider than and matching with said frame groove, a weather strip comprising a rigid, elongated body member thinner than the width of said frame groove positioned in both of said grooves, and a resilient sheet metal sheath substantially encasing said body member, said sheath being formed to present teeth adapted to



engage the walls of said frame groove to secure said sheath in said groove, and said sheath having a continuous longitudinal portion projecting transversely within said sash groove to engage yieldably a wall of said sash groove, whereby the opposite wall of said groove is urged against the opposite side of said sheath.

2,613,408
WEATHER STRIP
David C. Bailey, Amesbury, Mass., assignor to The Bailey Company, Incorporated, Amesbury, Mass., a corporation of Massachusetts
Application February 9, 1950, Serial No. 143,295
7 Claims. (Cl. 20—69)

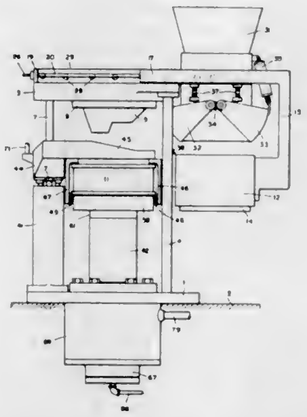


1. In a weatherstrip, a sheet metal body-strip having opposite marginal portions of substantial width disposed generally in a common plane, and having a longitudinal rib displaced laterally out of said common plane and extending along the body-strip between said opposite marginal portions thereof, a cushioning element extending along only one of said marginal portions of the body-strip and engaged against said longitudinal rib and against said one of the marginal portions of the body strip, and means securing the cushioning element in its said engaged position.

2,613,409
MOLDING MACHINE AND METHOD OF MOLDING
Leon F. Miller, Fairview Village, and Lyndon C. Cole, Cleveland Heights, Ohio, assignors to The Osborn Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application September 13, 1948, Serial No. 49,064
18 Claims. (Cl. 22—36)

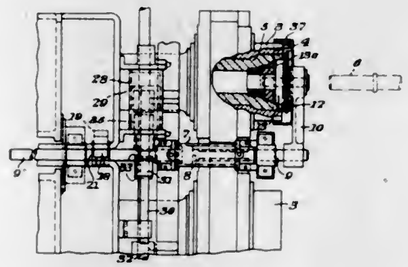
3. A method of molding which comprises the steps of mounting a pattern facing downwardly, holding a mold flask in subjacent engagement therewith, projecting a body of molding sand sufficient to form the mold upwardly as a unit volume into such flask against such pattern at a velocity of from 15 to 40 feet per second, and immediately following such sand with a ram, the upward momentum of which provides a supplemental ramming action.

11. In a molding machine, a frame adapted to support a downwardly facing pattern, means operative to hold a mold flask in subjacent engagement with such pattern, a sand magazine adapted to be positioned beneath such flask, an upwardly movable bottom in said magazine, a spacer having side walls only between said



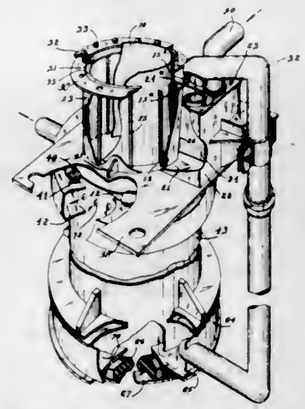
magazine and such flask, and a pneumatically operated vertically disposed ram piston below said magazine adapted rapidly to elevate said magazine bottom to project the sand contained in said magazine into such flask and against such pattern.

2,613,410
MOLDING APPARATUS
Loyal L. Johnston, Zelienople, Pa., assignor to Herman Pneumatic Machine Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 11, 1949, Serial No. 80,847
7 Claims. (Cl. 22—37)



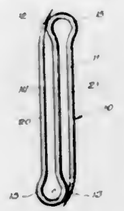
7. Molding apparatus comprising mounting means, an elongated mold having an open end rotatably mounted in the mounting means, a member adapted for application to the open end of the mold, means connected with the mounting means and the member supporting the member non-coaxially with respect to the mold, the member being rotatably mounted in the supporting means, means shifting the supporting means to move the member from the first mentioned position to a position in which it is supported coaxially of the mold, means maintaining the member spaced from the mold while being so moved and means for moving the member axially of the mold into cooperative relationship with the open end thereof, said last mentioned means tightly pressing the member against the mold.

2,613,411
COOLING SYSTEM FOR CONTINUOUS CASTING MOLDS
Irving Rossi, Morristown, N. J., assignor to Continuous Metalcast Corporation, Wilmington, Del., a corporation of Delaware
Application September 30, 1947, Serial No. 776,936
1 Claim. (Cl. 22—57.2)



A cooling system for a vertical mold, said cooling system comprising a jacket outside of and concentric with said mold defining a tubular chamber surrounding said mold; a source of cooling fluid under pressure; a hollow connecting member connecting said source of cooling fluid and said chamber; said hollow connecting member including a vertical inlet slot in said jacket extending substantially the full vertical height of said chamber, said tubular chamber guiding said cooling fluid through said chamber in a substantially horizontal path from said vertical inlet slot to said vertical outlet slot, said inlet slot being tapered from a relatively narrow opening at the top to a relatively wider opening at the bottom and vertical baffles carried by said jacket extending into said chamber for increasing the turbulence of said cooling fluid as it flows through said chamber; said baffles being relatively wider at their upper ends and relatively narrower at their lower ends.

2,613,412
CORSAGE PIN
Blanche E. Robinson, Chicago, Ill.
Application October 15, 1948, Serial No. 54,759
2 Claims. (Cl. 24—6)



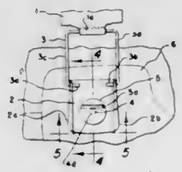
1. In a corsage pin formed from a single length of resilient wire the combination including a central portion, two side portions, a connecting rounded enlarged loop joining each side portion to the central portion, and a point on the end of each of said side portions, each of the side portions being curved adjacent to the point in the same direction as the adjacent loop and normally touching the outside edge of same at a place slightly spaced from said point.

2,613,413
POCKET ATTACHED HOLDER
Walter V. Budny, Ossining, N. Y.
Application May 27, 1950, Serial No. 164,701
5 Claims. (Cl. 24—10)



1. A holder for a plurality of implements each individually to be disengaged from the holder preparatory to the use of such implement, said holder comprising a depending front member and a depending elongate rear member joined near their tops, said rear member along a portion of its length having a rib-like addition thereby to provide a depending structure substantially T-shaped in transverse section, a pair of dependent stall-like open-topped housings each for receiving one of said implements, and means partially carried by said rib-like addition and partially carried by said housings for attaching the latter to said depending structure, said means comprising T-shaped grooves formed in the opposed faces of said rib-like addition, and T-shaped projections extending from the sides of said housing facing the rib-like additions to be vertically slidably received in said T-shaped grooves.

2,613,414
SHOE LATCH
Ralph E. Jones, San Diego, Calif., assignor of one-half to Kelso Jones, San Diego, Calif.
Application July 2, 1948, Serial No. 36,678
6 Claims. (Cl. 24—71)



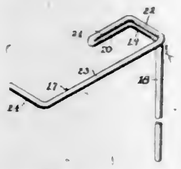
2. In a latch adapted to connect two overlapping members, said latch including: a first securing member providing a base portion and two rails, each having an aperture adjacent an end thereof, said apertures being substantially aligned in a plane normal to said rails, said rails extending from the sides of said base portion to provide edges diverging from each other in a direction away from said rail apertures; attachment means on said first securing member and adapted for connection to one of said overlapping members; a second securing member including first pivot means at one of its ends for pivotally connecting same to the other of said overlapping members and second pivot means at its other end for pivotally connecting same to said rails of said first securing member to permit said second securing member to swing from a plane substantially common to the plane of said first securing member through a position in which said first pivot means is opposite said second pivot means to fold toward said first securing member and assume a closed position in a plane substantially parallel to the plane of said first securing member, said second securing member including wire-like side members engaging and slipping beneath said edges of said rails as said securing members assume said closed position.

2,613,415
CLASP FOR BRACELETS
Saul Ritter, New York, N. Y., assignor of one-half to Marvin J. Bruner, New York, N. Y.
Application November 3, 1948, Serial No. 58,078
2 Claims. (Cl. 24—71)



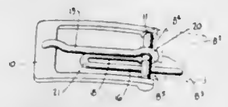
1. A clasp comprising a cover member having a top wall and side walls, an intermediate member, a hinge connecting one end of said intermediate member to said side walls, said hinge being positioned in adjacent spaced relation to one end of said cover member, said end of the cover member having the top wall extended to provide a tubular housing open at one end, a latch member mounted in said cover member and positioned between said hinge and said housing, a spring member for normally urging said latch member in a direction transverse to the longitudinal axis of said cover member, a bottom member having one end hingedly connected to the other end of said intermediate member, a detent in adjacent spaced relation to the other end of said bottom member for engaging said spring actuated latch member when the cover, intermediate and bottom members are in folded relation, a movable member disposed in and extending from the open end of said housing to provide a finger piece for actuating said latch member to permit the folded members to be unfolded.

2,613,416
PLASTERBOARD CLIP
John S. Raynor, Jr., Philadelphia, Pa.
Application February 3, 1950, Serial No. 142,098
2 Claims. (Cl. 24—73)



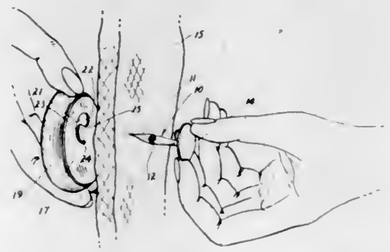
1. A clip produced from wire fashioned to provide a rectangular head comprising a reach rod of appreciable length, a relatively short finger extending from one end of said reach rod at right angles thereto, a primary shank strand of approximately the same length as said finger projecting from the opposite end of said reach rod and parallel to the finger, a primary beak strand projecting laterally from said primary shank strand at substantially right angles thereto and towards the finger but terminating short of the latter to provide an opening between said beak and finger, said reach rod, finger and primary shank and beak strands being in the same plane, a secondary beak strand parallel to the primary beak strand, a secondary shank strand parallel to the primary shank strand and substantially the same length therewith, said secondary strands being in the same plane which is parallel to the first mentioned plane, and a leg of considerable length extending from the secondary shank strand in the region of the junction of the reach rod and primary shank strand at right angles to both the reach rod and said primary shank strand.

2,613,417
BELT BUCKLE
Milton Medlin, New York, N. Y.
Application May 18, 1950, Serial No. 162,653
1 Claim. (Cl. 24—79)
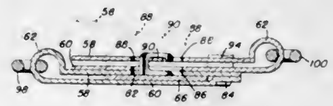


A tongue member having a loop for attaching it to a buckle frame of a waist engaging garment supporting belt to swivel the member on the buckle frame to engage and disengage the member from the belt; said tongue member being formed from a rod-like length of material by a bending operation into three portions aligned in overlapping relation, one of the outer of the aligned portions forming the tongue of the buckle and the other outer portion forming a garment attaching finger, the third and intermediate portion connecting the two outer portions to each other, the belt engaging tongue being connected to the intermediate portion of the member by a loop adapted to engage about a member of the frame and swingingly support the member from the frame whereby when the member is swivelledly mounted on the frame by means of the loop, the engagement of the free end of the tongue with an opening in a belt strap will automatically position the finger in the plane between the overlapping portions of the fly of the nether garment so that the finger can be interposed between these fly portions for supporting the garment against sagging with reference to the belt.

2,613,418
SEWLESS BUTTON OR CUFF LINK
Joseph Ibanez, New York, N. Y.
Application October 21, 1949, Serial No. 122,605
1 Claim. (Cl. 24—108)



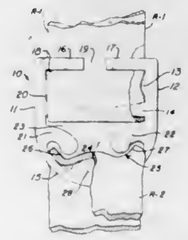
A button assembly including a shank and a head, said stud being provided with a peripheral groove and with a pointed free end for piercing a fabric, a hollow button consisting of two oppositely-disposed cup-shaped elements interfitting with each other, one of said cup-shaped elements having a depression in a wall thereof and so positioned as to receive the pointed end of said stud and the other of said cup-shaped elements having an opening of a size adapting it to freely receive said stud and a relatively small centrally disposed opening registering with said depression and of a size adapting it to receive and interfit with the groove in said stud, said other cup-shaped member also being provided with a substantially semicircular arcuate slot communicating with and connecting said openings together and of a width slightly less than the diameter of said groove and a tab positioned between said openings and formed by said semicircular slot and forming a portion of said other cup-shaped element and also acting as a wall of said arcuate slot, said tab being resilient and distended by pressure of said stud thereagainst to widen said arcuate slot and thereby permit passage of said stud therethrough and to assume its normal position after the groove in said stud becomes engaged with said small opening to form a lock for said stud.

2,613,419
FASTENER
Henri J. Dorgelys, Hempstead, N. Y.
Application May 16, 1949, Serial No. 93,565
11 Claims. (Cl. 24—157)



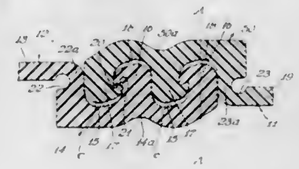
1. A detachable fastener comprising first and second members, a channel shaped locking element, a pivot securing the locking element to the first member, said locking element having a pair of spaced leg portions disposed on opposite sides of the pivot, said leg portions having bayonet slots in opposite ends thereof for receiving the second member upon rotation of said locking element in one direction, and means secured to the locking element and confined between said leg portions resiliently locking said second member in said bayonet slots.

2,613,420
BUCKLE FOR HOLDING RIBBONS
Max Brown, Waterbury, Conn., assignor to The Waterbury Metal Stamping Co., Waterbury, Conn., a corporation of Connecticut
Application March 1, 1950, Serial No. 147,062
2 Claims. (Cl. 24—200)



2. A buckle for joining the ends of upper and lower straps, comprising an integral frame having a pair of spaced vertical side bars, said frame having a pair of spaced transverse bars extended between said side bars and about which the upper strap is adapted to be adjustably engaged, a bottom transverse bar joining said side bars and over which the lower strap is adapted to be passed, inclined lower bar portions extended inwardly and downwardly from said side bars between said bottom bar and the lower of said spaced transverse bars, said bottom bar having the ends of its upper edge sloping downwardly and inwardly from said side bars, and formed with at least one convex projection extending upwardly and terminating below said inclined bar portions for stretching the lower strap so as to prevent it from shifting relative to its frame.

2,613,421
SLIDE FASTENER
Borge Madsen, Copenhagen, Denmark, assignor, by mesne assignments, to Flexico (U. S. A.) S. A., Tangier, North Africa, a corporation of Tangier
Application January 27, 1951, Serial No. 208,105
6 Claims. (Cl. 24—201)



1. A fastener comprising a pair of flexible strip portions, each strip portion having a web portion and a thickened marginal portion, said marginal portions being of substantially identical cross-section but reversed when in overlapping relation, each marginal portion having parallel channels and projections alternating with each other, the median planes of said web portions passing through said projections when said fastener is closed, each of said projections having a reentrant surface sloping away from the height axis of such projection toward the bottom of the adjacent groove which said reentrant surface overhangs, said reentrant surfaces of the projections on one marginal portion being in opposed abutting relationship with matching reentrant surfaces on the other marginal portion when said fastener is closed and resisting oppositely applied forces tending to effect the opening of said fastener.

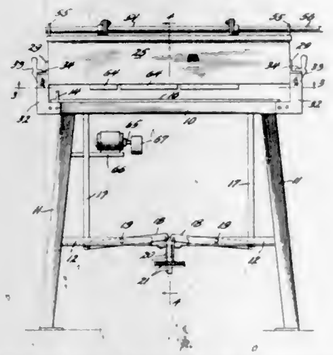
2,613,422
RESILIENT SNAP HOOK
George Boden, Waterbury, and Morgan V. Duell, Oakville, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application April 15, 1949, Serial No. 87,584
1 Claim. (Cl. 24—238)



A key retainer loop for a key container comprising a U-shaped resilient loop having a neck on one end with an enlarged head thereon and an opposite free end normally held in spaced relation to said neck, a tubular locking ring slidable endwise on said neck and having a smaller internal diameter than the diameter of said head, said ring being engageable over the free end of said loop to hold said free end in locked position adjacent said neck, and a small section of said loop having a flattened portion located between said neck and the bend of said loop having a width greater than the interior diameter of said ring to confine the

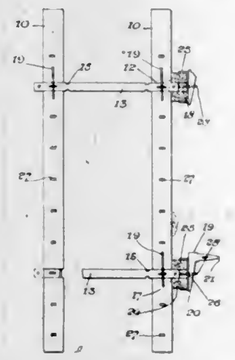
slidable movement of said ring between said head and said flattened portion and in easy operating position to the free end of said loop.

2,613,423
APPARATUS FOR MAKING STRUCTURAL ELEMENTS FOR BUILDINGS
Jack C. Davis, Charleston, W. Va.
Application January 15, 1951, Serial No. 206,064
15 Claims. (Cl. 25—41)



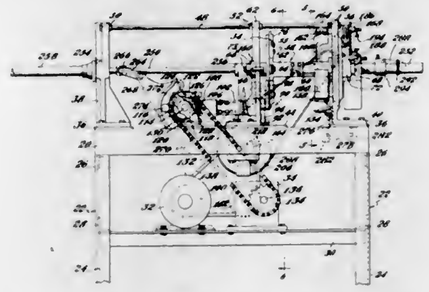
1. Apparatus for applying filler material in a space between surface elements of a building unit, comprising a support for the unit, a hopper over said support having a bottom opening, said support adapted to position the unit with the space between surface elements thereof below and in registration with said bottom hopper opening, and a vertically movable control element snugly fitting said opening and normally arranged therein to prevent the flow through said opening of filler material in said hopper, said control element being movable upwardly to a position uncovering said opening for the flow of filler material therethrough and downwardly to a position for pressing said material between the elements of said unit.

2,613,424
WALL FORM SYSTEM
William H. Kenney, Teaneck, N. J.
Application November 17, 1949, Serial No. 127,857
6 Claims. (Cl. 25—131)



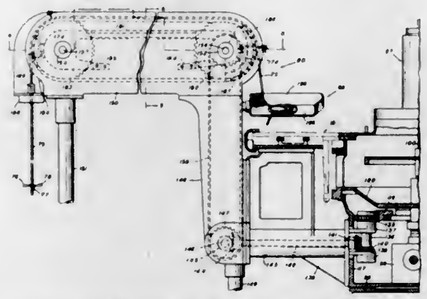
1. A wall form system comprising, spaced panels, each of said panels consisting of a panel face, a frame secured to the rear of the panel face and recesses provided in the periphery of the frame, tie means receivable within the said recesses to link the spaced frames together, securing means comprising wedge shaped members, said wedge members having outwardly extending portions at the thickened ends thereof and a wedge receiving eye in the outward extending portion, the whole being engageable with the tie means to tighten the frames and ties together, waler members carried upon the rear of the panels to align the said panels and waler tightening means engaging the walers and ties to lock the panels into a rigid assembly.

2,613,425
BOBBIN STRIPPING APPARATUS
Carl F. Whitaker, Beverly, Mass.
Application August 11, 1949, Serial No. 109,770
17 Claims. (Cl. 28—19)



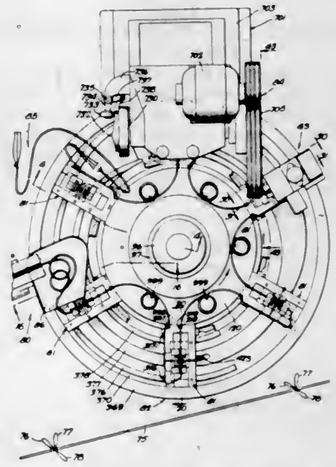
1. Apparatus for stripping thread from a bobbin comprising holding means for releasably holding the bobbin, thread stripping means including a knife for severing the thread upon the bobbin and an oppositely disposed plow for removing the several threads, and means for effecting relative movement between the holding means and the stripping means so that the plow and knife are brought into operating engagement with the thread on the bobbin.

2,613,426
APPARATUS FOR ADVANCING ELECTRICAL CORDAGE
Robert T. Adams, Chatham, N. J., and Julius A. Wagner, Cleveland Heights, Ohio, assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Original application January 11, 1945, Serial No. 572,414. Divided and this application February 24, 1947, Serial No. 730,513
11 Claims. (Cl. 28—71.5)



1. Apparatus for advancing continuous cordage having enlarged portions at spaced points therealong and small portions therebetween, which comprises a member having a notch therein of such a size as to permit the small portions of such cordage to slip therethrough and to prevent the enlarged portions from slipping therethrough, means independent of the cordage for advancing the member along a predetermined path, means for guiding the cordage into the notch in the member at one point in said path, and means for effecting withdrawal of the cordage from said slot at a second point in said path, whereby the cordage is advanced along the portion of the path between said points.

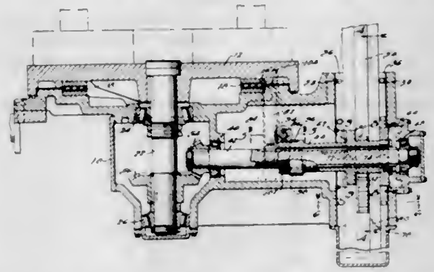
2,613,427
ARTICLE FORMING APPARATUS
Robert T. Adams, Chatham, N. J., and Julius A. Wagner, Cleveland Heights, Ohio, assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Continuation of application Serial No. 572,414, January 11, 1945. This application February 24, 1947, Serial No. 730,512
16 Claims. (Cl. 29—33.5)



1. Apparatus for making electric cords from continuous cordage including a plurality of conductors with covered sections and uncovered sections, which comprises a support, means for rotating the support, a carrier mounted on the support, spaced means mounted on the carrier for engaging such cordage at portions thereof at opposite ends of an uncovered section thereof, a tucker at a fixed station with respect to the support, said tucker having a plurality of conductor-receiving notches, and means for moving the tucker between the spaced cordage-engaging means when they reach the tucker to engage the conductors in said notches to take slack out of the conductors.

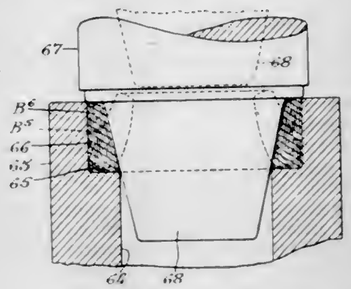
2,613,428
INDEXING MECHANISM FOR MACHINE TOOLS
Chite S. Lee, Detroit, Mich.
Application June 29, 1949, Serial No. 102,112
10 Claims. (Cl. 29—50)

1. A machine tool having a rotatable work-supporting table, means for rotatably indexing said table including a rotatable inner driven shaft, and an outer drive shaft mounted for mutual rotation with and slidable on said driven shaft; a reciprocatory actuator coactive with said drive shaft to rotatably drive the same during reciprocatory movement thereof and to slidably actuate said drive shaft at the ends of said reciprocatory movement; a slidable locking pin for holding said worktable against rotation; means for transferring motion from said drive shaft to said locking pin to move said locking pin into and out of engagement with said table, said means including a rack on the locking pin, a first



pinion coactive with said rack, a second pinion mounted for mutual rotation with said first pinion, and a rack on the drive shaft engageable with said second pinion, said rack having a plurality of annular teeth engageable with said second pinion during rotary movement of said drive shaft.

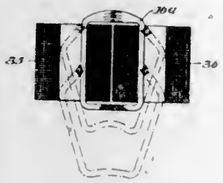
2,613,429
METHOD OF FORMING RINGS FOR BEARINGS
John J. Dierbeck, Milwaukee, Wis., assignor to International Harvester Company, a corporation of New Jersey
Application May 3, 1947, Serial No. 745,778
1 Claim. (Cl. 29—148.4)



A method of forming a bearing race for tapered roller bearings, which method includes compressing a relatively long circular blank having a grain flow extending axially of the blank into a flat circular slug of greater width than the initial blank, compressing the slug further between a pair of substantially closed dies having centrally located and oppositely disposed projecting portions and oppositely disposed annular recesses extending circumferentially of the projecting portions, the compression forming a circular member having a greater width and being thinner in cross section than the slug, said projecting portions forming a thin centrally disposed recessed web in said circular member, punching out the web to form an opening, placing said circular member between second dies to form it into an annular element in the form of a segment of a cone, removing said segment from the second dies and placing said segment into third dies in a reversed position with respect to the position of the segment in the second dies, and operating on the segment of the cone with said second dies to increase the diameter of the segment at its smaller end to the same diameter

as the outer diameter of the other end and reversing the angle of the interior wall of the segment.

2,613,430
METHOD OF MAKING TRANSFORMER CORES
Robert C. Sefton and John J. Zimsky, Pittsburgh, Pa., assignors, by mesne assignments, to McGraw Electric Company, a corporation of Delaware
Application April 26, 1946, Serial No. 665,045
6 Claims. (Cl. 29—155.58)

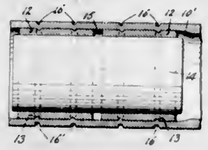


1. In a method of making transformer cores or the like of magnetic strip material, the steps including, winding a single length of magnetic strip into a generally four-sided coil, spacing at least certain of the turns of said strip during said winding to provide for overlap, cutting through one of said sides intermediate the insides of the two adjoining sides to form a plurality of concentric single whole turn laminations discontinuous relative to each other, shaping said laminations into a generally rectangular hollow core with the respective ends of each lamination in overlapping relation substantially between the insides of said adjoining sides, and annealing said core while so shaped, whereby an adjoining side may form a winding leg for a preformed winding by the successive axial insertion of said laminations, the laps in said laminations being open and their ends leading and abreast during such insertions.

5. In a method of making a transformer or the like, the steps including, concentrically stacking single whole turn laminations of magnetic strip bent lengthwise into a generally four-sided figure with the respective ends of each lamination in overlapping relation along one side and with successive laps of successive laminations in alinement intermediate the insides of the adjoining sides of the innermost of said laminations, shaping said laminations so stacked into a generally rectangular hollow core with said laps in said alinement between said insides, annealing said core while so shaped, successively opening said laps, successively and axially inserting laminations so opened through at least one preformed winding with the lap ends leading and abreast, and reclosing said laps beyond the far edge of said winding after said inserting to complete the linking of an adjoining side of said core with said winding with the laminations of said core occupying the precise relative positions they occupied during annealing.

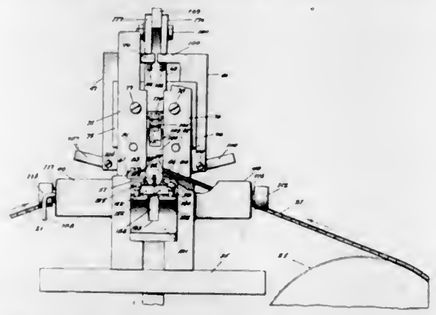
2,613,431
METHOD OF MAKING HYDRAULIC CYLINDERS WITH PLUNGERS
Leland T. McGee, Los Angeles, Calif.
Application March 22, 1948, Serial No. 16,334
1 Claim. (Cl. 29—156.4)

The method of making a hydraulic cylinder with plunger, which consists in taking a steel tube for the cylinder, forcing a pair of circumferentially grooved bushings thereinto, but leaving a space between their inner ends, inserting a steel plunger through said bushings to give solidity, indenting said steel tube from the outside to interlock with the grooves in said bushings to hold the latter in place, withdrawing said steel plunger



bar and inserting a ring gasket in the gasket space between the inner ends of said bushings, and inserting a plunger through said bushings and said ring gasket, said gasket sealing around the plunger and around the inner surface of said steel tube, in the manner indicated.

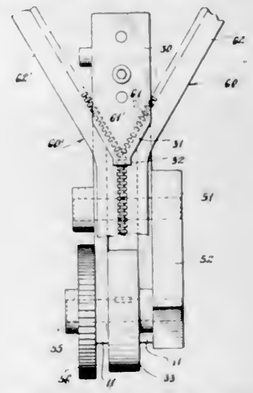
2,613,432
MACHINE FOR ASSEMBLING ELECTRICAL CONNECTORS
Charles E. Gilbert, Long Island City, N. Y.; Margaret Doris Gilbert, Norman Coates, and The Chase National Bank of the City of New York executors of said Charles E. Gilbert, deceased
Application June 13, 1947, Serial No. 754,468
6 Claims. (Cl. 29—206)



3. A machine for assembling electrical connectors comprising, in combination, mechanism for feeding two separate strips of semi-connected electrical contact elements substantially horizontally towards each other into the machine, mechanism for simultaneously and progressively shearing contact elements from the free ends of each of said strips as said strips are intermittently advanced into the machine by said feeding mechanism, said shearing mechanism also serving to turn said sheared contact elements into parallel vertical planes, means for receiving said sheared contact elements and for inserting said elements into an electrical connector body, means for supporting an electrical connector body and an electrical conductor cord on the machine in operative position to receive said contact elements from said inserting means, and means for effecting the operation of said feeding, shearing and inserting mechanisms in timed relation to each other.

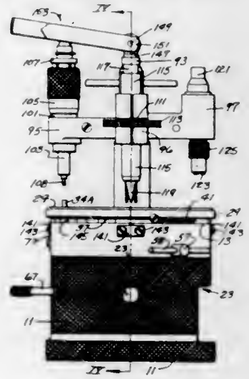
2,613,433
APPARATUS FOR INTERLOCKABLY ASSEMBLING FASTENER STRINGERS
Fred H. Rojahn, Lynbrook, N. Y.
Application December 27, 1948, Serial No. 67,395
4 Claims. (Cl. 29—208)

1. Slide fastener assembling apparatus, for intermeshing a pair of stringers carrying equispaced interfitting fastener elements having identical structure as they are delivered from a forming mechanism, comprising, in combination, means forming a pair of intersecting channels of equal width for guiding a pair of stringers into converging relation at a meshing point with their attached fastener elements in opposed relation; mechanism for drawing the intermeshed stringers away from the meshing point; reciprocable



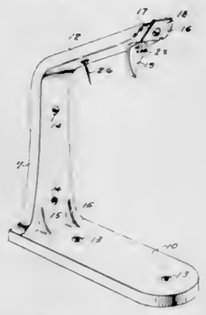
pawl means extending into said channels at the meshing point; and means for positively moving said pawl in the direction of movement of the stringers, in synchronism with said forming mechanism to successively engage each individual element of one stringer and move it into firm engagement with a matching element of the other stringer; said pawl being arranged to slide over the fastener elements in its return movement.

2,613,434
COMBINATION STAKING TOOL
George O. Martin, Walnut Ridge, Ark.
Application November 7, 1949, Serial No. 126,014
9 Claims. (Cl. 29—231)



2. A device for use in the repair of mechanisms, which device includes a base having an annular trackway formed in its upper face; a horizontal turntable rotatably mounted on said base; a plurality of anvil-like members arranged in an arcuate band having a radius similar to the radius of said trackway supported by said turntable for vertical reciprocation relative to said turntable, said members depending below said turntable into said trackway; a vertical guideway formed in said base underlying and communicating with said trackway; cam means mounted in said guideway for effecting elevation of one of said anvil-like members; and base carried means for locking said turntable against rotation relative to said base.

2,613,435
CAN OPENER
Gethro Story, Fort Worth, Tex.
Application October 23, 1950, Serial No. 191,675
3 Claims. (Cl. 30—6.1)



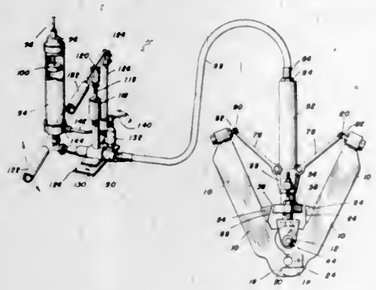
1. An opener for punching a pouring hole in the end of a cylindrical can, said opener comprising a vertical supporting member, an arm projecting upwardly and outwardly from said support and including a beveled end downwardly and inwardly inclined toward the longitudinal center line of said vertical member, a flat blade body secured to said beveled end and including a triangular blade depending beneath said arm, said blade being outwardly curved with respect to the length of said arm, and a hook depending from said blade at a location near said blade body and having the end thereof generally directed toward the concave surface of said blade.

2,613,436
SAFETY RAZOR
Olliver Vincent Burke, Burnham, Canterbury, New Zealand
Application April 17, 1947, Serial No. 742,066
In New Zealand October 29, 1946
1 Claim. (Cl. 30—85)



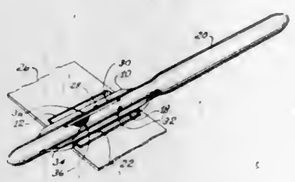
A handle and grip assembly for safety razors including an elongated handle and a rotary grip attachment for the handle comprising a wire helix surrounding the handle and having terminal coils of reduced diameter loosely encircling a reduced diameter portion of the handle and serving, in conjunction with said reduced diameter portion of the handle, to rotatably secure the grip attachment and handle together so that they are free to rotate relatively to each other but are held against relative bodily movement in the axial direction thereof, said handle being at least as long as the encircling helix.

2,613,437
POWER-OPERATED PIVOTED SHEARS
William F. McPhee, Ringwood, Ill., assignor of six-tenths to Irvin M. Slepicka, Chicago, Ill.
Application April 25, 1950, Serial No. 157,986
2 Claims. (Cl. 30—228)



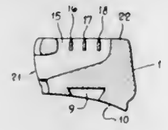
1. A power cutter, comprising a pair of jaw members pivoted together adjacent the jaws thereof, a plunger and means for connecting it to the jaw members at the pivot thereof, a cylinder movable upon the plunger having a collar at the inner end with opposite contact surfaces thereon, the jaw members having inner projections adapted to be engaged by the projections of the said collar when the cylinder is moved inwardly to position the collar between the projections on the members and the pivot thereof, means movable on the cylinder engaged by the collar and connected to the outer ends of the members remote from the jaws thereof to actuate the jaws, means for applying pressure to the cylinder for moving the projections of the collar in engagement with the projections of the members to initially separate the jaw members when the cylinder is moved relative to the plunger and to engage the collar movable on the cylinder for applying pressure to the ends of the jaw members and to the jaws.

2,613,438
RAZOR BLADE HOLDER
Joseph W. Robinson, Trenton, N. J.
Application April 3, 1951, Serial No. 218,950
3 Claims. (Cl. 30—331)



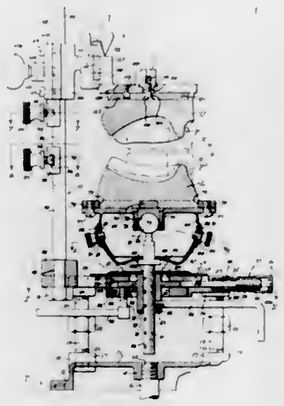
1. A relatively flat holder for a longitudinally slotted safety razor blade which blade is provided with axially aligned end portions of reduced width, said holder having a handle extending axially from one end thereof, said holder also having therein a through, transverse slot of sufficient length to receive said blade when slidably inserted edgewise, axially aligned shoulders in said slot engageable with aligned edges of said reduced end portions of said blade to stop its slidable movement in said slot in an aligned position in relation with the axis of said holder, and with the edges of said blade projecting radially beyond the edges of said holder, said slot being transversely unobstructed except by said shoulders, a longitudinal slot in one side of said holder, the walls of said slot being disposed at a right angle to and extending through the wall of said transverse slot in a position to register with the longitudinal slot in said blade, and a latch bar pivotally mounted at one end in the longitudinal slot in said holder, said bar being inserted in the longitudinal slot in said blade to secure said blade against lateral displacement from the side of said slot wherein said blade is inserted.

2,613,439
ARTIFICIAL TEETH
Jacob A. Saffir, Los Angeles, Calif.
Application August 6, 1948, Serial No. 42,949
17 Claims. (Cl. 32—8)



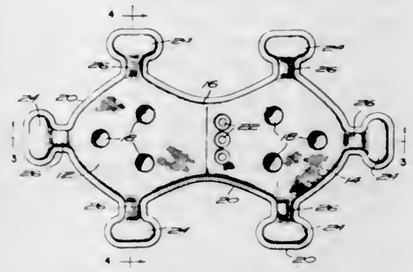
1. An artificial tooth comprising a masticatory surface provided with at least one opening therein, at least one cutting blade associated with said opening in the plane of said masticatory surface, and a passage extending from said opening below said masticatory surface adapted for the discharge of food below the said masticatory surface.

2,613,440
ARTICULATOR FOR MAKING ARTIFICIAL DENTURES
Addie P. Murray and Oliver E. Barthel, Detroit, Mich.
Application March 20, 1950, Serial No. 150,642
10 Claims. (Cl. 32—32)



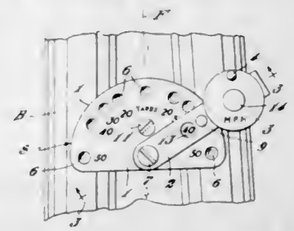
1. An articulator for making artificial dentures comprising a base, an upright mounted on said base, a laterally and longitudinally movable slide mounted on said base, a post including a universal joint mounted on said slide, a lower dental cast support rockably mounted on said universal joint, an upper dental cast support movably mounted on said upright, and measuring devices associated with said lower cast support for indicating the displacement thereof from a predetermined zero position.

2,613,441
DENTAL PAD
John W. Biggs, Sharon, Mass.
Application May 23, 1951, Serial No. 227,917
4 Claims. (Cl. 32—34)



1. A dental pad of highly absorbent material having a pair of body portions integrally connected by a waist portion; each body portion being shaped to fit within the space defined by the teeth; one body portion being adapted to rest on the tongue and the other body portion to rest against the roof of the mouth; the said waist portion being bent over at the rear of the mouth to prevent passage of foreign material into the throat.

2,613,442
GUN SIGHT
William M. Austin, Needham, Mass.
Application December 5, 1950, Serial No. 199,227
5 Claims. (Cl. 33—59)



1. A device for use in aiming at targets moving transversely of the line of fire of a gun, comprising a support, a distance indicator pivoted on said support to rotate to the right or left of said line distances corresponding to the distances from the gunner to the targets, pivoted off-center on said distance indicator a velocity indicator carrying a sight rotatable therewith transversely of said line to different positions corresponding to the velocities of various targets, whereby the sight may be set for the correct lead for different distances and velocities whether the target be moving to the right or to the left.

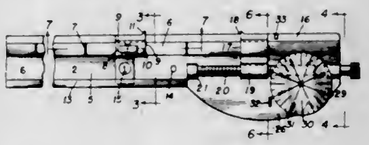
2,613,443
GLASS LEVEL RECORDING MECHANISM
Marion A. Helmick, Fairmont, W. Va., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application July 13, 1948, Serial No. 38,417
12 Claims. (Cl. 33—126)

3. Apparatus for gauging the level of molten glass in a tank, comprising a pair of probes mounted to extend over the glass in the tank, electrodes connected respectively to the probes and projecting downward, one electrode extending downward to a position to contact the glass when the latter is at a normal level, the other electrode extending downward a lesser distance and out of contact with the glass while the latter is at a normal level, an electric motor, means providing operating connections between the motor and electrodes for lifting and lowering said electrodes, electro-responsive means for causing the operation of said motor, control circuits for said electro-responsive means extending through the molten glass and from the glass through the electrodes respectively, whereby one circuit is completed when one electrode contacts the molten glass and the other circuit is completed when the other electrode contacts the glass, and each said



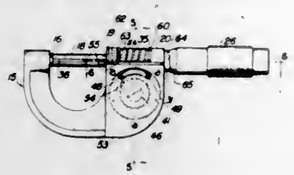
circuit is broken when its electrode moves out of contact with the molten glass, said electro-responsive means being thereby actuated to cause operation of the motor and said lifting and lowering means to lift the electrodes when the level in the tank rises to a point at which both the electrodes contact the glass, arrest the upward movement of the electrodes when one is lifted out of contact with the glass, and lower the electrodes when the glass level lowers sufficiently to break contact with both electrodes, and to again arrest the electrodes when one electrode contacts the glass, whereby the electrodes are caused to move up and down in accordance with fluctuations in the level of the glass.

2,613,444
MEASURING RULE WITH OPPOSED SLIDING CONTACTS
David D. Brooks, Union City, Ohio
Application July 23, 1947, Serial No. 763,136
3 Claims. (Cl. 33—147)



1. A measuring device comprising a flat elongated rule body having a longitudinal rib on its upper surface and a longitudinal channeled guide at one edge also on its upper surface and parallel to the rib, said body having a scale on its upper surface between the rib and guide, a pair of slides mounted on the rib, a lateral extension on one of the slides having a sight opening selectively registering with the indicia of the scale and also having its outer edge traveling in the channeled guide to hold the extension flat on the scale, locking means carried by said one slide holding the latter in adjusted position on the rib, a feed screw connected to the other of said slides for adjusting the latter relative to the first named slide, and indicating means for the second named slide.

2,613,445
MICROMETER
Samuel George Zuckerman, New York, N. Y.
Application December 16, 1949, Serial No. 133,226
9 Claims. (Cl. 33—166)



1. In a micrometer of the class having a frame provided with an anvil, a calibrated barrel, a rotatable thimble and a spindle rotatable with the thimble and movable toward and away from the anvil, the combination of a helical scale member connected to and rotatably movable with said spindle, said scale member having a plurality of convolutions bearing scale calibrations thereon, rotatably mounted indicating means coactively rotatable with the spindle, a portion of the arc of rotation of said means being along a path intersecting the directions of all the convolutions of the helical scale, and, a reference line parallel to the axis of the helical scale and extending across all the convolutions thereof.

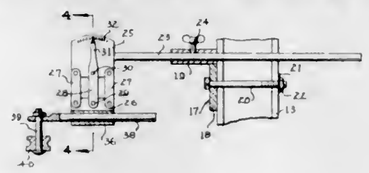
2,613,446
BUTTONHOLE GUIDE FOR FACILITATING LAYOUT OF BUTTONHOLES
Milton Helmlich, Larchmont, N. Y.
Application March 29, 1950, Serial No. 152,625
6 Claims. (Cl. 33—174)



1. A buttonhole guide comprising a base member, a fixed element having an overhanging surface projecting upwardly from said base member, a fixed indicating finger carried by and projecting from said base member adjacent to said fixed element, a movable element projecting upwardly from said base member and provided with an indicating finger projecting in the same direction as said fixed finger, said movable element and finger being slidably carried by said base member so as to allow the engagement on said base member and between said projecting elements of buttons of varying diameter and thickness, the distance between said fingers varying in proportion to varying button diameters and also to varying button thicknesses whereby said distance serves to indicate the proper length of buttonhole required for the particular button engaged between said projecting elements.

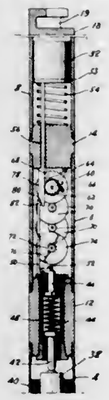
2,613,447
WHEEL CHECKING DEVICE
Nick J. Brouwer, Rock Valley, Iowa
Application September 26, 1950, Serial No. 186,873
2 Claims. (Cl. 33—203.16)

1. A wheel checking device comprising a first upstanding plate having one face provided with an arcuate scale, a rod arranged longitudinally of said plate and having one end fixed to said plate, a bracket connected to the other end of said rod and adapted to be fixedly secured to a wheel support, a second upstanding plate arranged below and in longitudinal spaced aligned relation with respect to said first plate, a pair of spaced links extending from the calibrating face of said first plate adjacent the lower end of the latter named plate to the complemental one face of the second plate adjacent the upper end of the last mentioned plate and connecting said second plate to said first plate for swinging movement relative to said first plate, a sleeve extending longitudinally of and along the lower end of said second plate and dependingly carried by the lower end of said second plate, a second rod positioned in and slidably supported in said sleeve and having one end projecting beyond



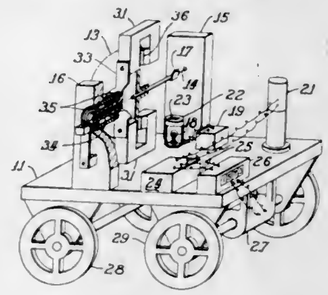
said sleeve, a vertical bolt arranged contiguous to the projecting end of said second rod and having the upper end dependingly connected to the projecting end of said second rod, a feeler element rotatably supported on said bolt inwardly of the other end thereof, a securing element carried by said sleeve and engageable with said second rod for securing said second rod in position within said sleeve, and an upstanding pointer positioned intermediate and in parallel spaced relation with respect to said pair of links and connected to said first and second plates for swinging movement simultaneously with the movement of said second plate relative to said first plate, the upper end of said pointer being contiguous to and spaced from the arcuate scale of the first plate.

2,613,448
WELL SURVEYING INSTRUMENT
Roland Ring, Houston, Tex., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application March 20, 1946, Serial No. 655,683
2 Claims. (Cl. 33—205.5)



2. A well surveying instrument comprising means for supporting a record member, electrically operating means for recording position of the instrument on said record member, and means for interrupting the recording action after a predetermined time interval following arresting of the instrument at its recording position comprising a weight, means yieldingly supporting said weight and timing means operated by said yielding supporting means following displacement of the supporting means by the inertia of the weight when the instrument is arrested at its recording position.

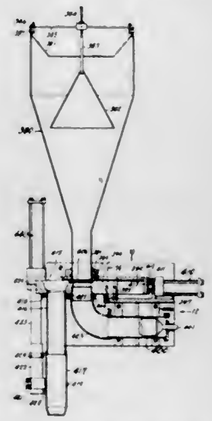
2,613,449
PENDULUM DAMPING DEVICE FOR ELEVATION METERS
Joseph D. Eisler, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application August 31, 1945, Serial No. 613,824
5 Claims. (Cl. 33—220)



5. In a gradiometer employing a metallic disc pendulum suspended on torsion fibers between two supports as a reference to determine slope, a balanced, high-inertia, magnetic means rotatably mounted on one of said supports, the axis of rotation of said pendulum and said balanced, high-inertia, magnetic means being coincidental, and said metallic disc pendulum being disposed in the magnetic field of said high-inertia, magnetic means, whereby eddy currents are introduced into said metallic disc pendulum to damp high-frequency oscillations thereof and whereby said pendulum is free from frictional forces.

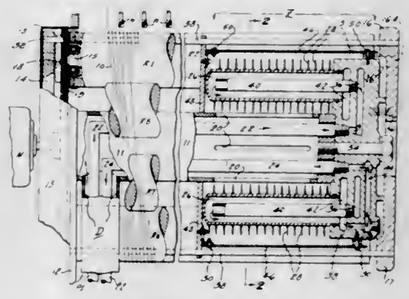
2,613,450
MATERIAL HEATING AND HANDLING MEANS
Charles A. Nichols, Russell B. Bower, George L. Weiser, James R. Edwards, William A. Fletcher, and Harold W. McCoy, Anderson, Ind., and Basil S. Sample, Danville, Ill., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application August 22, 1946, Serial No. 692,274. Divided and this application June 12, 1948, Serial No. 32,605
9 Claims. (Cl. 34—57)

1. Means for uniformly heating loose molding powder comprising means for supplying a heated drying gas, a horizontal plate, a series of ducts encompassed by the plate communicating with the means for supplying the heated drying gas and for directing the heated gas upwardly through the plate, a powder discharge passageway in the plate spaced from the ducts, a carriage resting upon and slidable over the plate, and rectilinear guide rails mounted for guiding the carriage over the plate, a vertical passageway through the carriage, a funnel member mounted over the passageway, means for reciprocating the carriage on the plate while being guided by the



rails to alternately register with the ducts or with the discharge passageway.

2,613,451
SYNTHETIC THREAD MANUFACTURING APPARATUS
Harry A. Kuljian, Merion, Pa.
Application February 28, 1951, Serial No. 213,146
18 Claims. (Cl. 34—153)

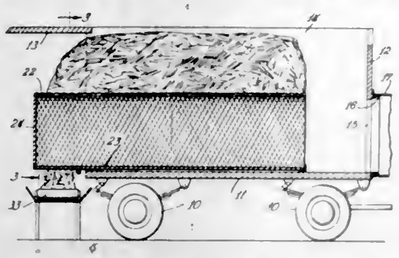


1. For use with a thread advancing and storing reel including spaced, axially aligned first and second end plates, an elongated post extending between said end plate, and a plurality of spaced elongated rolls arranged about said post and having their ends journalled in said end plates, a heat exchanger carried by said center post near said second end plate, means rotatably mounting said heat exchanger and said second end plate in relation to said post, and means for supplying a heated, fluid drying medium to said heat exchanger.

2,613,452
CROP DRIER AND UNLOADER
Arthur A. Andersen, Crystal Lake, and Bernard C. Mathews, Chicago, Ill., assignors to American Crop-Drying Equipment Company, Crystal Lake, Ill., a corporation of Illinois
Application October 27, 1949, Serial No. 123,894
4 Claims. (Cl. 34—229)

1. In a crop dryer of the class described, the combination of a box-like drying enclosure having air penetrable side walls and solid end walls and a floor at the bottom, a hot air duct having perforated top and side walls of substantially the same length as the drying enclosure, one

of the end walls of said drying enclosure having an opening adapted to communicate with the hot air duct, and the other end wall being retractable to permit outward movement of the



duct with respect to the enclosure, and a roller rotatably mounted at the rear end of the floor of the drying enclosure in a position to support the duct in its outward movement.

2,613,453
TRAINING TYPEWRITER
László Andor Gecsei, Sarospatak, Hungary
Application January 15, 1947, Serial No. 722,227
In Hungary March 7, 1946
9 Claims. (Cl. 35—5)



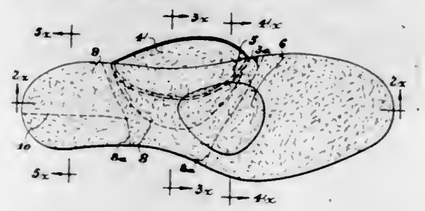
1. As an educational device a typewriter for training purposes comprising a plurality of keys constituting a key board; movable impact means distinct from said keys and surrounding the same; indicating means; and an actuating connection between said impact means and said indicating means whereby the latter are actuated upon movement of the former so as to indicate when the fingers of the student strike the impact means instead of the keys.

2,613,454
DEMONSTRATING DEVICE FOR SUCTION CLEANERS
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 10, 1949, Serial No. 98,235
6 Claims. (Cl. 35—13)



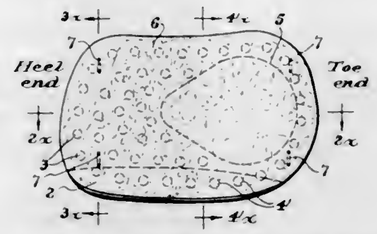
1. A dusting tool filter element comprising a hollow body adapted to be connected into and to form a part of a suction air conduit, said body having an opening extending across its top wall and part way through opposite side walls thereof, a closure plate for said opening including wall portions adapted to contact the edges of said opening in said body to seal the air passageway through said body, a partition structure extending entirely across the interior of said body including an imperforate section extending from the bottom wall thereof to the edges of said opening and a perforated section extending from the end of said imperforate section to the side and top wall edges of one side of said opening.

2,613,455
ARCH SUPPORT
Joseph A. Amico, Rochester, N. Y.
Application January 3, 1948, Serial No. 438
3 Claims. (Cl. 36—71)



1. An arch support comprising an insole having a narrow intermediate part, a cookie having a convex pattern on its top side, said cookie being fastened on the underside of the insole at one side thereof at its narrow part so that the insole conforms in shape to a portion of the top of the cookie, said cookie having a concave pattern on its underside, an imperforate pad having low elasticity placed in the concave part under the cookie and beneath the insole, said cookie and said first named pad holding that intermediate part of the insole in the form of an arch, an imperforate second pad placed on top of the insole above the cookie and partially in advance of the said first named pad, said second pad having a greater degree of elasticity than the first pad, one or more coats of rubber cement placed on top of the assembly, a dry absorbent skin coat of ground clay-impregnated leather placed on top of the rubber cement.

2,613,456
ARCH SUPPORT AND METATARSAL PAD
Joseph A. Amico, Rochester, N. Y.
Application February 3, 1950, Serial No. 142,233
3 Claims. (Cl. 36—71)



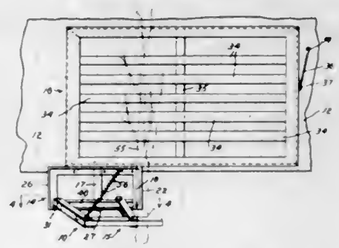
1. In an arch support, and a metatarsal pad the combination of a base plate rounded at both ends, having a suitable thickness, the inner edge of said base plate being turned up to form a wing, an elastic metatarsal support placed at and upon the forward end of the base plate adjacent to the wing, perforations in said base plate rearwardly of said support and in said wing, a substantially imperforate skin coating comprising a thin layer of clay-impregnated absorbent sole leather placed over the assembly so formed and one or more coatings of rubber cement placed on the bottom of the base plate.

2,613,457
INSTEP GUARD FOR SAFETY SHOES
Edward F. McLaughlin, Philadelphia, Pa.
Original application April 25, 1947, Serial No. 743,780. Divided and this application September 10, 1951, Serial No. 245,818
14 Claims. (Cl. 36—72)



1. Safety shoe having an impact-resistant, stiff, substantially rigid protector, such as a protector of sheet steel, embedded in the shoe upper over and continuously across the instep between the break line and the ankle portion of the shoe.

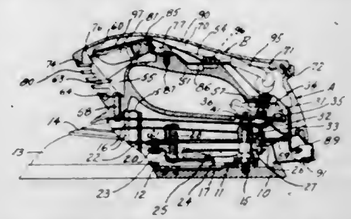
2,613,458
TREE PULLER
Comer W. Harrell, Bainbridge, Ga.
Application April 16, 1951, Serial No. 221,193
4 Claims. (Cl. 37—2)



1. A tree puller comprising an upright frame arranged to be attached to a side of a vehicle, a tree grabbing device hingedly secured to said frame for pivotal movement about a horizontal axis, said tree grabbing device comprising a tongue, said tongue being pivoted at its forward end to a forward portion of said frame on a horizontal pivoting axis whereby the rear end of said tongue may hinge upwardly, a pair of cross beams each pivoted at one end to said tongue, one of said cross beams being pivoted adjacent the hinge end of said tongue, and the other of said cross beams being pivoted adjacent the opposite end of said tongue, a tree grab beam, the other ends of said cross beams being pivoted to said grab beam, said cross beam pivots extending vertically, said cross beam pivots on said grab beam being spaced closer together than said cross beam pivots on said tongue, whereby contact of said forward cross beam with the tree to be pulled will cause a projecting forward end of said grab beam to pivot inwardly into contact with the forward side of the tree.

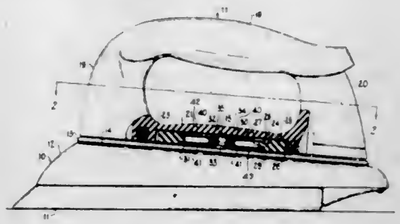
2,613,459
ELECTRIC FLATIRON
Nils T. Almquist, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application June 22, 1945, Serial No. 600,909
7 Claims. (Cl. 38—75)

1. In an electric flat iron, a sole plate, a casing thereon, a heating unit for heating the sole plate, a thermostat associated with the sole plate and responsive to the heat thereof, a switch within the casing actuated by said thermostat, means for adjusting the switch relative to said thermostat and including a generally vertical shaft extending upwardly through the casing adjacent the rear end thereof, a circular disc-shaped indicator knob on the end of the shaft located above the casing for rotation in a generally horizontal



plane; and a handle on the casing having a rear upright portion, a front upright portion, and a hand grip therebetween; said rear upright portion being provided with an elongated slot extending from one side of the vertical portion to the other across the front of said vertical portion and said knob being housed for the most part within said rear upright portion and having an inwardly and upwardly inclined peripheral wall extending forwardly through the slot therein.

2,613,460
TEMPERATURE CONTROL DIAL FOR ELECTRIC IRONS
John E. Vance, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 16, 1947, Serial No. 754,827
3 Claims. (Cl. 38—88)

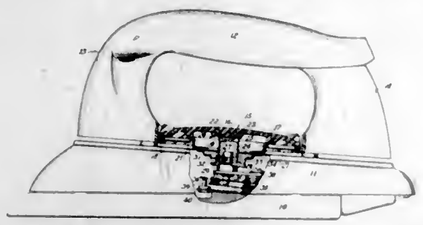


1. In an iron, an iron body, cover means spaced from said body to form a chamber therebetween, a temperature control dial movably disposed in said chamber for adjusting a thermostat, said temperature control dial including a peripheral ring having indicia thereon for the materials to be ironed, means connecting said peripheral ring to said thermostat, and stabilizing means projecting from said connecting means into engagement with said iron body and said cover means to stabilize said peripheral ring when the operator exerts a force thereon to adjust said thermostat.

2,613,461
CONTROL FOR ELECTRIC IRONS
Edward A. Weiland, Garfield Heights, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application May 18, 1948, Serial No. 27,721
4 Claims. (Cl. 38—89)

1. An electrically heated smoothing iron comprising, a sole plate, a cover shell secured to

said sole plate, a large diameter control dial, an annular dish shaped disc secured to said cover shell, said disc having an annular flange extending outwardly from its upper edge, said dial including means extending downwardly



therefrom into contact with said flange to hold said dial against tilting movement while permitting rotative movement thereof and means on said dial for engaging beneath said flange to hold said downwardly extending means against the top of said flange.

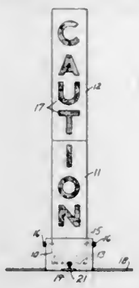
2,613,462
PRESSURE VESSEL
Carl E. Johnson, Verona, Pa., assignor to Scaife Company, Oakmont, Pa., a corporation of Pennsylvania
Application April 6, 1948, Serial No. 19,254
5 Claims. (Cl. 40—10)



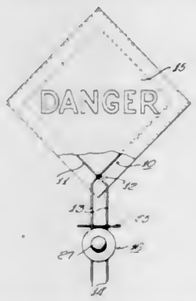
1. A pressure vessel comprising a cylinder having a convex head provided with a neck, a wide identification metal crown encircling the neck with its outer edge engaging the head, the upper surface of the crown being provided with identifying data stamped therein, the inner portion of the crown having a downwardly bent annular portion forming a groove in its top and a rib on its bottom, and an externally threaded collar encircling the neck and joined to the upper end of it, the bottom of the collar seating in said groove and pressing said rib toward the head.

2,613,463
PORTABLE ROAD SIGNAL
Edward S. Transue, Denver, Colo.
Application May 2, 1949, Serial No. 93,210
3 Claims. (Cl. 40—125)

1. A portable road sign signal device comprising: an elongated, open-topped box; a lower sign section having a length and a width to fit snugly within said box parallel to the bottom thereof; hinges hingedly securing the lower extremity of said lower sign section to the bottom of said box adjacent one end of the latter; means for holding said lower sign section in the vertical position; an upper sign section corresponding substantially in length and width to said first section; hinges securing said two sections together so that when in use they may swing into vertical alignment above said box when the latter is rested horizontally upon the ground and into a horizontal parallel position within said box when not in use; warning characters carried upon the faces of said sign sections; a first spring means urging said lower sign section toward the vertical position; and a second spring means urging the upper sign section into vertical alignment with the lower sign section; and withdrawable locking means extending into said box at a position to lock said sign sections in either the vertical or the horizontal positions.



2,613,464
SIGN MOUNTING
Robert L. Lisle, Dallas, Tex.
Application December 16, 1950, Serial No. 201,153
3 Claims. (Cl. 40—125)
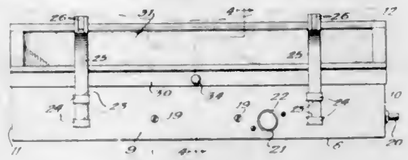


1. A sign frame mounting comprising a housing having aligned openings in its front and rear, a beveled member movably disposed in the front portion of said housing, compression means normally urging said beveled member toward the front portion of said housing, said housing having adjacent its front portion and on each side of the first mentioned openings, diametrically opposed passageways, a sign frame having parallel prongs adapted to be received in said passageways to displace said beveled member against the resistance of said compression means and means extending through said aligned openings of said housing for holding the latter on a supporting member.

2,613,465
ULTRAVIOLET LIGHT FIXTURE
Stanley E. View, Chicago, Ill., assignor to Kolite Incorporated, a corporation of Illinois
Application November 30, 1950, Serial No. 198,442
3 Claims. (Cl. 40—130)

1. An ultra-violet light fixture comprising: a metal box having a base with a rear wall, a shorter front wall with its top edge portion turned inwardly and rearwardly, and end walls joining said front and rear walls; a resilient

downwardly concave reflector having an outwardly directed flange adapted to rest on the inturned edge of the front wall of said box, and a rear edge adapted to engage the upper portion of said rear wall of the box, said reflector having a length less than the box and adapted to rest in the box above said base; lamp sockets on said end walls above the bottom of said reflector; a tubular lamp in said sockets within said reflector; a fuse box in said box below said reflector electrically connected to a source of current supply and the lamp sockets; and a metal cover member hinged to said rear-wall and having an open top frame and downwardly extending flanges to enclose the top portions of all of the box walls, a tinted glass panel mounted in said frame with its marginal portions bound in rubber-like material so that when the cover member is turned to closed position the binding will engage the rear edge of the reflector and press the front flange of the reflector snugly against said in-turned edge of the front wall and hold the reflector firmly in position.

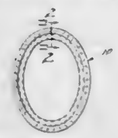


2,613,466
IDENTIFICATION ASSEMBLY UNIT
David Harold Bowder, Attleboro, Mass., assignor to Swank, Inc., a corporation of Delaware
Application September 25, 1948, Serial No. 51,165
2 Claims. (Cl. 40—140)



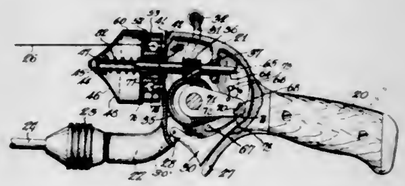
1. An identification assembly comprising a body member of generally rectangular shape with an open center having lengthwise extending channel bars opening inwardly with arcuate end pieces connecting the channel bars, said channel bars providing opposed parallel inner surfaces forming a slideway with open ends, a carrier slidable in said slideway also of generally rectangular shape with an open center having angle bars forming a bottom wall with a flange extending at right angles thereto and arcuate end pieces connecting said angle bars and of a thickness greater than the thickness of the bottom wall to provide a recess along the angle bar extent of the carrier with shouldered abutments at the ends of the recess, characters located in said recess between the flanges of said angle bars and between said abutments and within the channel bars of said slideway, the arcuate ends of said carrier projecting beyond said channel bars at both ends of said body member and exposed above the arcuate end pieces of said body member, said characters being movable with said carrier into and out of said slideway.

2,613,467
PICTURE FRAME
Ernest O. Borglin, Detroit, and Harry D. MacKenzie, Grosse Pointe, Mich., assignors to E. O. Borglin Company, Hazel Park, Mich.
Application June 18, 1948, Serial No. 33,716
4 Claims. (Cl. 40—154)



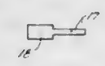
1. A picture frame having a body portion made of a plurality of elements in the shape of rings of predetermined inside and outside dimension and like inside and outside configuration, and an additional plurality of rings of the same outside dimension but larger than the inside dimension so as to form a rabbet for the reception of a picture when the elements are glued together in face-to-face relation, said elements after assembly having a plurality of layers of a paper strip wound on the outer edge to project outwardly from the front face of the frame on the side opposite to that containing the rabbet to provide additional depth thereto of an amount at least equal to the combined thickness of the rings having the smaller inside dimension.

2,613,468
FISHING REEL
John B. Hand, Haddonfield, N. J.
Application November 8, 1949, Serial No. 126,120
10 Claims. (Cl. 43—20)



1. A fishing reel for pay-off longitudinally of the reel axis, comprising a spool, a grip supporting the spool, a bucket positioned coaxially of the spool on the side toward which pay-off takes place, mechanism to rotate the bucket, an annular pickup mounted concentric of and movable with the bucket and telescoping with respect to the bucket, the pickup in one position annularly surrounding the spool and in another position uncovering the spool, and trigger mechanism adapted to be engaged by the finger when the hand is on the grip to move the pickup from a position surrounding the spool to a position uncovering the spool.

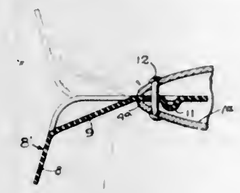
2,613,469
FISH LURE
Matthew J. Haberkorn, Oak Park, Ill.
Application March 6, 1950, Serial No. 147,890
2 Claims. (Cl. 43—35)



1. In a fish lure, a body portion having an elongated slot extending through opposite sides of

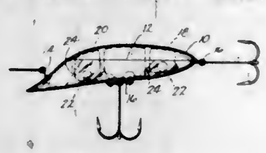
said body, a hook pivoted in one end of said slot having a barbed end normally concealed within the other end of said slot, the shank of said hook normally protruding from one side of said slot, a latch arm formed on the pivoted end of said hook, a stop within the slot, and a spring member comprising a leaf spring anchored in said body at one end of said body at one end of said slot and having a free end portion normally tensioned against the free end of said latch arm to hold the hook shank exposed, said latch arm being movable relative to said spring member to a position whereby said spring member acts upon said latch arm to cause the barbed portion of said hook to be ejected from said slot when a fish strikes said hook shank.

2,613,470
ARTIFICIAL FISH BAIT
John Eslinger, Chicago, Ill.
Application February 18, 1948, Serial No. 9,120
4 Claims. (Cl. 43—42.03)



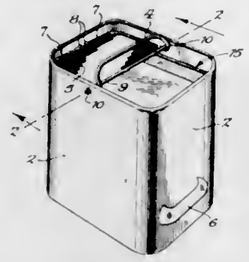
1. A fish bait comprising, in combination, an elongated plug body adapted to be drawn endwise through the water, a tail section comprising a tail fin interconnected with the rear end of said body and capable of movement reversibly into the path of the slip stream of water at opposite sides of said body, said tail fin when located at either side of said body being movable by the action of the water toward and over dead center position, and an elongated elastic member connected at one end with said body and at the other end with said movable fin, said elastic member when unstressed being shorter in length than the spacing between said body and said fin when said tail is in dead center position, and said member being tensioned upon movement of said fin from either side of said body toward dead center and serving upon movement of said tail fin past dead center position to flip said tail fin to the opposite side of said body for play thereon of said slip stream.

2,613,471
ARTIFICIAL BAIT
Eugene L. Traycik, Cloquet, Minn.
Application September 27, 1946, Serial No. 699,728
9 Claims. (Cl. 43—42.31)



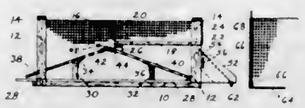
3. An artificial bait comprising an elongated body provided with at least two hollow chambers spaced longitudinally of the body, each of said chambers having a track at the bottom thereof extending in a direction generally transversely of the longitudinal axis of the body, a freely rolling ball on each of said tracks, said tracks each having a high end and a low end spaced vertically apart and being inclined downwardly from said high end to said low end, said high and low ends of each track being disposed on opposite sides of said body, one track having its high end on one side of said body and the other track having its high end on the opposite side of said body whereby said balls are spaced apart longitudinally of said body and normally gravitate to opposite sides of the body.

2,613,472
AERATED BAIT CONTAINER
Edward A. Ebert, Snyder, N. Y.
Application June 29, 1948, Serial No. 35,812
1 Claim. (Cl. 43—56)



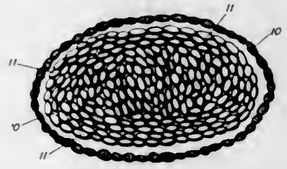
A bait bucket, comprising a container having connected side and bottom walls, the greater part of which are composed of a plastic having a myriad of internal, rounding, closely spaced, small cells, the cells in the outer part of said walls being out of communication with the exterior of said bucket and out of communication with each other to provide a dead gas cellular thermal insulation, and the cells in the inner part of said walls having mouths opening to the interior of the bucket to provide a myriad of pockets lining the interior of said bucket and each containing an individual body of air.

2,613,473
ANIMAL TRAP
Frank B. Heibel, St. Louis, Mo.
Application February 20, 1948, Serial No. 9,700
18 Claims. (Cl. 43—76)



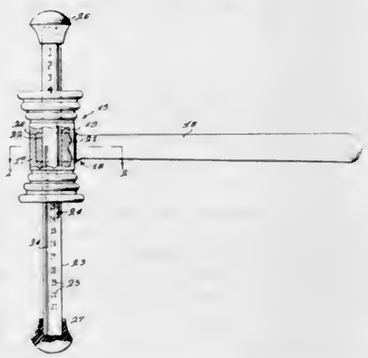
1. An animal trap that comprises a housing of perforated material, an inlet opening in said housing, an outlet opening in said housing, a pivot support within said housing, a second pivot support within said housing that is spaced from said first pivot support, a ramp that is adjacent said inlet opening and is pivoted to said first pivot support, a second ramp that is adjacent said outlet opening and is pivoted to said second pivot support, said ramps having their ends positioned in confronting relation, a pivot carried by the confronting end of one of said ramps, a second pivot carried by the confronting end of said second ramp, a connecting link secured to and extending between said pivots, said connecting link, pivots, ramps, and pivot supports constituting a double toggle arrangement, said pivot carried by said second ramp being normally below a straight line between the pivot carried by said first ramp and the point of contact between said second pivot support and said second ramp but being movable to a position above said straight line, a portion of said second ramp overlying and bearing against said connecting link, and a trigger that is carried by said first ramp but is movable relative to said first ramp to cause movement of said pivot carried by said second ramp and thus disable said double toggle arrangement.

2,613,474
TOXIC BAIT FOR OYSTER BEDS
Allan A. Sollers, Baltimore, Md.
Application March 7, 1950, Serial No. 148,170
3 Claims. (Cl. 43—132)



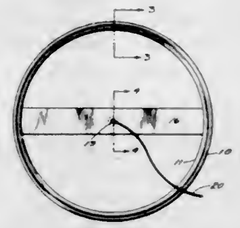
1. An eliminator for oyster parasites comprising a piece of porous slag, a toxic material distributed over said slag, whereby an oyster parasite will be able to attach itself thereto and absorb the said toxic material, when distributed around an oyster bed, and oyster liquor added to said material to attract said parasite.

2,613,475
STRIKING TOY
Adrien R. Mellor, Loma Linda, Calif.
Application February 4, 1949, Serial No. 74,581
4 Claims. (Cl. 46—1)



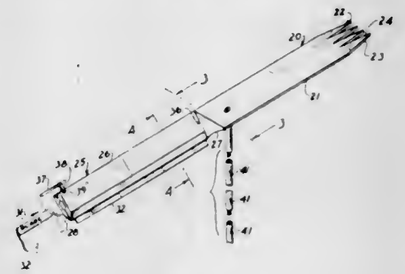
1. A striking or hammering toy comprising a body having a bore extending therethrough, and an elongated peg extending reciprocally through said bore and sized to be frictionally engaged by the wall of the bore, said peg being of a length greater than the length of said bore and extending to beyond each end of the bore to enable the body to move longitudinally of the peg toward either end thereof when said end is struck against a surface, said body being substantially mallet-shaped and including a head and an elongated handle projecting laterally from said head, said bore extending longitudinally through the head and being disposed with its longitudinal axis perpendicular to the longitudinal axis of the elongated handle.

2,613,476
CAPTIVE HOOP TOY
Charles Metz, Youngstown, Ohio
Application June 24, 1950, Serial No. 170,095
4 Claims. (Cl. 46—220)



1. A captive hoop toy comprising a two-part rim, an outermost annular portion of which is normally telescopically engaged over an innermost annular portion and retained by frictional engagement therebetween, said outermost and innermost annular portions having their peripheral edges cross sectionally rolled in oppositely disposed directions, a transverse body member secured to the innermost annular portion and extending thereacross, an opening in the said body member midway between its ends and a string rotatably positioned in said opening and forming means by which said captive hoop toy may be manipulated.

2,613,477
COMBING AND CUTTING IMPLEMENT
Elizabeth MacGregor, Clearwater, Fla.
Application September 10, 1949, Serial No. 115,080
2 Claims. (Cl. 47—1)

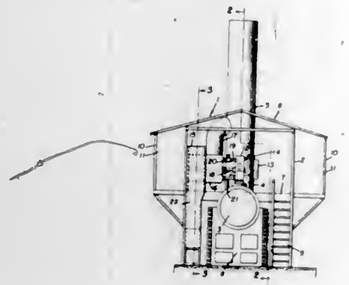


1. A device of the class described having a web, a comb secured to one end of said web comprising a plurality of elongated fingers, a blade holder comprising a holder base and a cap connectable to said holder base, a guide for connecting said blade holder to said web and for securing said holder at an angle thereto, and a sectional handle secured to said web of the device, said handle having its various sections connected one to the other.

2,613,478
APPARATUS FOR HEATING ORCHARDS AND THE LIKE
Harvey E. Ringle, Riverside, Calif.
Application December 16, 1946, Serial No. 716,459
1 Claim. (Cl. 47—2)

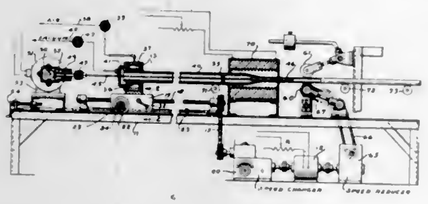
Apparatus for heating orchards comprising a steam generating unit including a boiler having

a stack, and adapted to be disposed in the orchard, distributing conduit lines adapted to be disposed on the ground in the orchard and having outlet apertures therein, means for feeding steam through said lines from said boiler together with air under pressure, comprising a combined suction and blower fan having a side intake casing opening into said fan, a steam line for feeding steam from said boiler into said side intake casing, a steam turbine for driving said fan supplied



with steam by said boiler, and an auxiliary steam supply line from the exhaust side of said turbine to said side intake casing, said stack having a downtake pipe extending therefrom to said side intake casing, said side intake casing forming a pre-mixing suction chamber in which the suction created by said fan pre-mixes the steam with air and products of combustion from said stack for subsequent mixing in the fan by rotary agitation thereof.

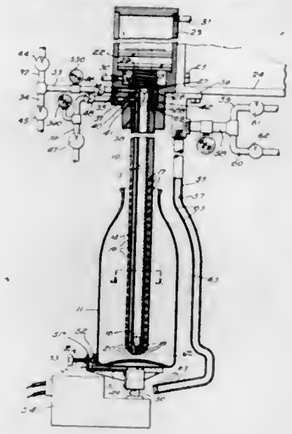
2,613,479
GLASS REHEATING AND RESHAPING
Guy E. Stong, Elmira, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application April 21, 1947, Serial No. 742,918
6 Claims. (Cl. 49—7)



1. In an apparatus for progressively reheating and reshaping a linear body of glass, a former, means for progressively heating the body to a workable temperature, means for passingly engaging the glass solely with said former while the glass is at a workable temperature, and means for imparting a linear reciprocating movement to said former relative to the glass along a path paralleling that of the glass as it is being passingly engaged by the body.

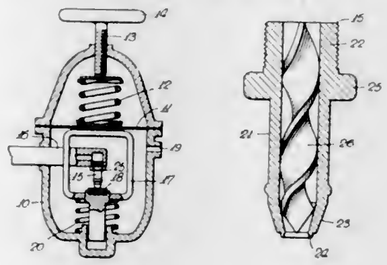
6. The method of making relatively thin walled tubing of accurate bore from relatively heavy walled tubing, which comprises drawing the heavy walled tubing into intimate contact with a former while heating said tubing only in the vicinity of the former, and drawing relatively thin walled tubing off the end of said former at a relatively rapid rate while imparting reciprocating movement to said former.

2,613,480
APPARATUS FOR TREATING GLASSWARE
Charles E. Mongan, Jr., Hartford, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application September 23, 1942, Serial No. 459,362
2 Claims. (Cl. 49—45)



1. In apparatus for surface treating a glass bottle or like hollow glass article, an elongate nozzle comprising means defining a longitudinally extending passage having a series of spaced holes in its wall and another longitudinally extending passage extending alongside the first passage and also having a series of holes in its wall, said nozzle being adapted to project into a hollow glass article to be treated nearly to the bottom of such article, means operatively connected with said first named passage to supply a mixture of air and a combustible gas under pressure thereto, valve means operable to independently control the supply of gas and air components respectively, of said mixture and to shut off the supply of combustible gas to said first named passage while continuing to supply air thereto, and means to supply air under pressure to said second named longitudinal passage.

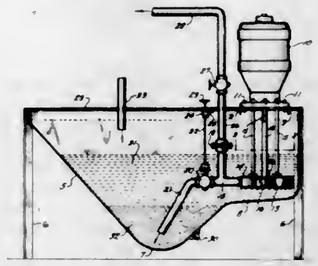
2,613,481
PRESSURE REGULATING VALVE
Frank J. Eichelman, Brookfield, Ill., assignor to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
Application August 1, 1947, Serial No. 765,359
5 Claims. (Cl. 50—23)



1. A fluid pressure regulator of the type in which there is provided a nozzle and a heat vulnerable valve seat, said nozzle and seat being relatively movable to control the flow of fluid from said nozzle, said nozzle having a helical twisted

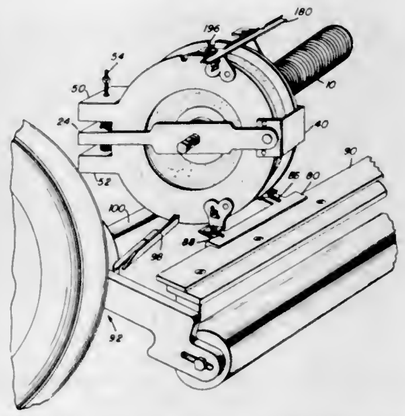
blade the terminal portion of which has inclined edges disposed therein and extending lengthwise thereof in heat conducting relation with its wall, and terminating out of contact with and above said seat.

2,613,482
WET BLASTING APPARATUS
Karl F. Hamacher, Milwaukee, Wis.
Application November 26, 1949, Serial No. 129,648
15 Claims. (Cl. 51—8)



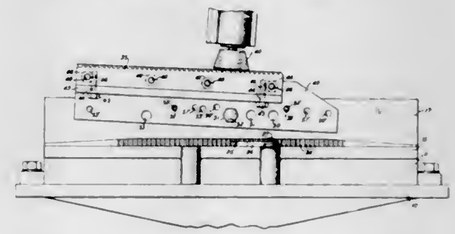
1. In a wet blasting apparatus: a hopper adapted to contain a liquid suspension and having a bottom portion into which the suspended material in said suspension tends to settle, said hopper being formed with a side opening above said bottom portion and below the normal liquid level in said hopper; a housing fixed to the side of said hopper and communicating with the interior thereof through said hopper opening; and a pump positioned in said housing.

2,613,483
LAWN MOWER SHARPENING DEVICE
James P. Lewis and Ralph R. Rader, Howard, Kans.
Application October 8, 1951, Serial No. 250,264
5 Claims. (Cl. 51—173)



1. A lawn mower sharpener comprising a flexible housing, a flexible power shaft in said housing, a rigid tip on said shaft projecting from said housing, a terminal on said housing, a U-shaped frame, one leg of said U-shaped frame being detachably, rigidly mounted on said terminal, said rigid tip projecting into said frame, a grinding wheel mounted on said tip, a bearing stud mounted in the other leg of said frame, said stud engaging the end of said rigid tip, a U-shaped bracket pivotally mounted across the open end of said frame, a pair of substantially annular guard plates secured on said bracket and extending in substantially parallel relation to said wheel, an annular guide channel adjustably mounted on said guard plates, said guide channel adapted to engage a bar to determine the angular relation of said wheel to said bar, twin notches in said guard plates to present a cutter bar to said wheel.

2,613,484
GRINDING FIXTURE
George W. Soderman, West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 6, 1949, Serial No. 91,727
2 Claims. (Cl. 51—216)



1. A broach grinding fixture, for use in a grinding machine having a table mounted in a given plane relative to a rotatable grinder, the fixture comprising a holder having sets of apertures therein corresponding in number and relative positions to the number of sets of teeth and their relative angular positions of a broach to be ground, means to removably secure the broach to the holder, a carriage supported for movement on the table, means mounted on the table to guide the carriage in a given path relative to the grinder and parallel with the plane of the table, and supporting elements for the holder mounted on the carriage and receivable in any one of the sets of apertures of the holder whereby the holder with the broach may be removably supported successively in various angular positions relative to the plane of the table and grinder to cause grinding of the sets of teeth of the broach to given angles relative to each other during movement of the carriage with the holder and broach.

2,613,485
HOLDER FOR HYPODERMIC NEEDLE
George W. Jacoby, Jr., Wooster, Ohio
Application September 7, 1950, Serial No. 183,501
1 Claim. (Cl. 51—216)

A holder engageable by an operator's hand for supporting a hypodermic needle during a sharpening operation on an abrasive body, comprising a rod having a frusto-conical stub arbor on one end for frictionally holding the needle, an enlarged body portion on the rod adjacent said arbor, a sleeve adjacent said body portion and rotatable on said rod, said body portion and sleeve each being of sufficient length for engagement by the thumb and a finger of the operator's hand, a portion of said rod extending beyond said sleeve in a direction opposed to said arbor and being of sufficient length to engage the hand of the operator between the finger and thumb when the thumb and finger engage either said body portion or sleeve, said body portion and said sleeve

being of substantially the same diameter to facilitate the ready movement of the thumb and finger from said sleeve to said body portion during the sharpening operation, means for restraining movement of said sleeve longitudinally of the rod whereby said sleeve is adapted to be engaged by



the thumb and finger to enable the rod to rotate for properly positioning the face of the hypodermic needle upon the abrasive body and whereby said rod is adapted to be retained in said position upon the subsequent gripping of said body portion by the thumb and finger.

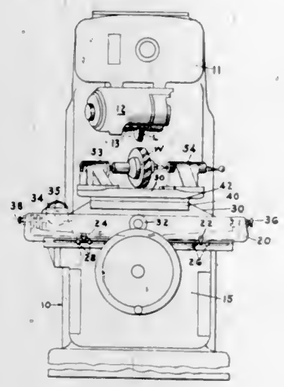
2,613,486

METHOD OF FINISHING GEARS

Walter S. Praeg, Detroit, Mich., assignor to National Broach and Machine Company, Detroit, Mich., a corporation of Michigan

Original application November 8, 1948, Serial No. 58,895. Divided and this application May 29, 1950, Serial No. 165,079

6 Claims. (Cl. 51—287)



6. The method of lapping a gear which comprises supporting the gear for rotation on a vertically movable support, counterbalancing the weight of the support with a uniform force providing a relatively small substantially constant force effective to raise said support, limiting upward movement of said support by engagement between a gear on said support and a stationary gear-like lap, locking said support in the position determined by meshing engagement between the gear and lap, and thereafter rotating and traversing said gear and lap in mesh.

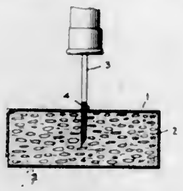
2,613,487

METHOD OF PACKAGING HYGROSCOPIC SPONGES

Sidney P. Vaughn, San Diego, Calif.

Application April 21, 1950, Serial No. 157,417

4 Claims. (Cl. 53—6)



3. The method of packaging hygroscopic cellular sponge so that it will retain its condition when moistened and will not harden, shrink and warp when kept for a long time, comprising enclosing the dry hygroscopic cellular sponge in a flexible substantially transparent container which is moisture proof to a high degree, inserting a tubular needle of small diameter through the wall of the container to form a small aperture for the passage of the needle into the container, passing a moistening fluid through the tubular needle in a sufficient amount to dampen the hygroscopic cellular sponge so that it is moistened sufficiently to render the same soft and flexible, and then withdrawing the tubular needle from the small aperture.

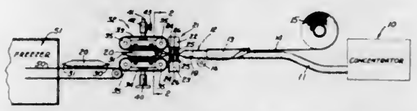
2,613,488

APPARATUS FOR PACKAGING FROZEN FRUIT JUICES

George R. Attride, Riverside, Calif.

Application August 18, 1950, Serial No. 180,177

3 Claims. (Cl. 53—58)



1. Apparatus for packaging frozen fruit juices, comprising means for forming an endless tube of thermoplastic sheet material, means for extruding juice into said tube while excluding air therefrom, means for cross-sealing said tube at substantially uniformly spaced intervals along the length thereof to form individual packages, means for compressing each of said packages at the time the posterior end thereof is sealed, so that the amount of juice contained therein is equal to the full volumetric capacity of the package less the amount required for expansion on freezing, and a freezer for quick-freezing said fruit juice to produce a solid, completely filled, cylindrical package.

2,613,489

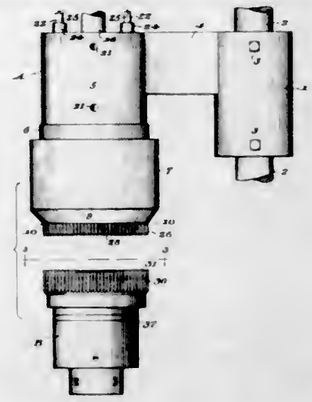
PRESS SEALING HEAD FOR WRAPPING AND SEALING EDIBLES

Payton A. Terry, Bristol, Va.

Application February 8, 1950, Serial No. 142,972

10 Claims. (Cl. 53—102)

1. A head for applying a covering to an article and for sealing the edges of the covering comprising a pair of relatively movable sections comprising an upper section and a lower section, a cutting and trimming ring mounted on one of said sections, a former mounted within said ring and means for crimping and sealing said covering around said article, said means including vertically extending guide members on the interior of said cutting and trimming ring, and cooperating guide means on said former engaging the first named guide means in meshed relationship.



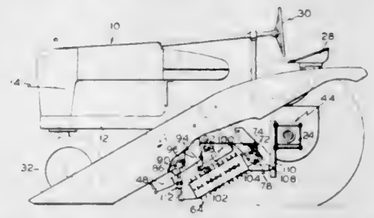
2,613,490

STALK CHOPPER FOR CORN PICKERS

Elof K. Karlsson, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application October 15, 1949, Serial No. 121,544

1 Claim. (Cl. 55—62)



A corn stalk shredding attachment for a corn picker of the type having supporting structure and inclined cooperative snapping rolls for removing ears of corn from stalks and passing the stalks downwardly therebetween, comprising a shredder frame attached to the supporting structure at substantially the rear thereof a shredder unit hingedly mounted at its rear end thereof on the shredder frame, said shredder unit including a rotatable cylindrical drum with a plurality of longitudinally spaced apart radially extending knives, said shredder unit extending forwardly and downwardly and generally longitudinally disposed beneath and substantially parallel to the inclined snapping rolls to receive all of the stalks fed downwardly by said snapping rolls, and link means joining the front end of the shredder unit with the supporting structure said link means including adjustable means for varying the inclination of the shredder unit about its rear hinge.

2,613,491

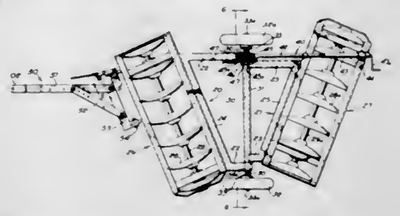
HORIZONTALLY HINGED WHEELED DISK HARROW

Russell T. Evans and John H. Clasen, Anaheim, Calif.

Application April 22, 1946, Serial No. 663,926

25 Claims. (Cl. 55—73)

1. An earth-working implement comprising in combination: a pair of horizontally disposed frames; horizontally disposed hinge means connecting said frames for vertical movement relative to each other; earth-working tools carried by said frames; ground wheels on said implement adjacent said hinge means and adapted to support varying portions of the load of said frames and tools; and means for varying the angularity of



said frames with respect to each other and thereby varying the load imposed upon said ground wheels and the extent of penetration of said earth-working tools, said varying means including an extensible device connecting the two frames together to swing them about said hinge means to change their relative angularity.

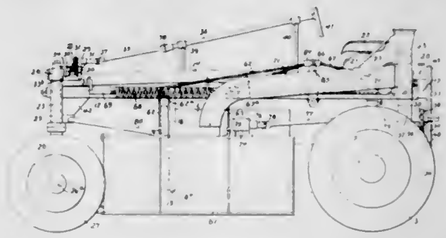
2,613,492

COTTON PICKING MACHINE

John D. Rust, Memphis, Tenn.

Application October 25, 1948, Serial No. 56,327

12 Claims. (Cl. 56—14)



1. A cotton picking machine comprising a carrying frame for use with a tractor, said carrying frame having a cotton picking unit suspended therefrom intermediate its ends, a front ground wheel mounted on the forward end of said frame, the rear end of said carrying frame having a pair of spaced supporting members detachably secured to the axle housing of the tractor and means on said carrying frame intermediate its ends for detachably securing the forward end of the tractor.

2,613,493

WITHDRAWN

2,613,494

WATERPROOF WATCHCASE

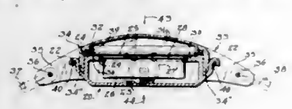
Hyman Dinstman, New York, N. Y., assignor to I. D. Watch Case Co., Inc., New York, N. Y.

Application April 14, 1949, Serial No. 87,407

2 Claims. (Cl. 58—90)

1. A waterproof wrist watch case comprising a backing element having an internal perimetral shoulder, a watch crystal having an external perimetral shoulder superimposed on said shoulder of said backing element, a frame-like elastic gasket interposed between said shoulders, a bezel fitted over said crystal and having an internal

frame-like portion fitted down on said shoulder of said crystal, a pair of laterally spaced horns extended from opposite ends of said bezel, each pair of horns having laterally aligned holes, components extended upward from the ends of said backing element and between the respective horns of said bezel, pins extended through the



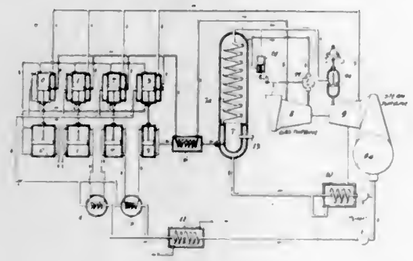
holes of said horns and along the outer faces of said components, and downwardly facing hooks continuing from the top ends of said components and fitted over said pins between said horns joining said backing element and said bezel to compress said gasket between said shoulders.

2,613,495

VAPOR AND GAS POWER PLANT UTILIZING EQUIPRESSURE VAPOR GENERATOR

Ernest Mercier and Marcel Ehlinger, Paris, France, assignors, by mesne assignments, to Moore, Inc., Atlanta, Ga., a corporation of Georgia

Application December 29, 1945, Serial No. 638,054
In France February 16, 1945
16 Claims. (Cl. 60—11)



13. A power generating plant comprising a turbine utilizing a gas under pressure to develop power therefrom by expansion of said gas therein, a free piston compressor for compressing a gas to a pressure effective for developing power therefrom in said turbine, said turbine being connected to said compressor to receive said compressed gas therefrom, a free piston prime mover, means cooperating with said free piston prime mover for effecting utilization therein of gases at high temperature and at a pressure to develop power therefrom by expansion thereof in said free piston prime mover to an exhaust pressure substantially corresponding to the pressure of said expanding compressed gas in a reduced pressure stage of said turbine, said free piston prime mover being operatively connected to said free piston compressor for driving said compressor independently of said turbine to effect said compression of said gas, and means for delivering the exhaust gases from said free piston prime mover to said reduced pressure stage of said turbine to develop power therein from said exhaust gases concomitantly with further expansion of said compressed gas in said turbine from said reduced pressure.

14. The method of operating a power generating system utilizing a plurality of heat conveying fluids under pressure which comprises effecting combustion of fuel to produce combustion gases at a pressure elevated substantially above atmospheric pressure, developing power from said combustion gases by expansion thereof from said elevated pressure, generating vapor by the heat of said combustion gases at a pressure which is substantially above atmospheric pressure in a predetermined relation to the pressure of said combustion gases, developing power from said vapor by expansion thereof, controlling a selected one of said fluids to vary the power developed therefrom in response to variations in the combined power developed by said expansions of said fluids, and controlling another of said fluids to vary the power developed therefrom in response to variations from said predetermined relation of said pressures of said fluids.

2,613,496

INTERMITTENT DUCT ENGINE

Paul Kollsman, New York, N. Y.

Application August 20, 1945, Serial No. 611,630
3 Claims. (Cl. 60—35.6)



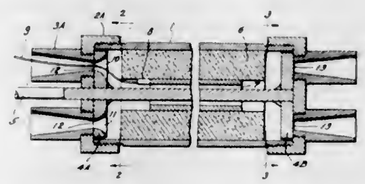
1. An intermittent duct engine installation for aircraft comprising, in combination, an airfoil having a leading edge and a trailing portion, the leading edge having an aperture therein diverging inwardly and forming a dynamic air admission port; a combustion chamber enclosed in said airfoil; a discharge duct leading from said combustion chamber to said trailing portion; means for introducing fuel into said combustion chamber; means for igniting combustible mixture in said combustion chamber; means forming a rearwardly closed air chamber in the leading portion of said airfoil communicating with the atmosphere solely through said dynamic port in said leading edge causing superatmospheric pressure to be built up in said air chamber in flight; and an air admission valve between said air chamber and said combustion chamber, the volume of said air chamber being larger than individual charges of air admitted into the combustion chamber, whereby the dynamic pressure in the air chamber is maintained substantially constant.

2,613,497

CONTROLLABLE ROCKET THRUST DEVICE

Gilmour Craig MacDonald, Ames, Iowa

Application April 1, 1947, Serial No. 738,602
9 Claims. (Cl. 60—35.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. A rocket thrust device comprising in combination, a combustible gas-generating propellant, a combustion chamber confining the propellant and having two nozzles giving a choice of direction of thrust, means for igniting the propellant, separate valve means for each nozzle, and means

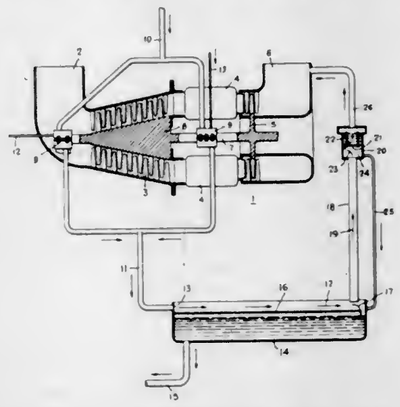
for operating the said valve means to open either or both of the nozzles as desired for controlling the direction, magnitude, and duration of the thrust.

2,613,498

OIL SEPARATION AND RECLAIMING MEANS FOR GAS TURBINE POWER PLANTS

James J. Prendergast, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application October 25, 1949, Serial No. 123,390
1 Claim. (Cl. 60—39.08)



In combination, a gas turbine power plant having bearings of the high pressure air-sealed type for the rotatable elements thereof, an air line for supplying high pressure air to said bearings, an oil feed line for supplying oil to said bearings, an oil storage tank having a baffle member positioned therein over the normal oil level and extending substantially across said tank, an oil discharge line connecting said bearings and said tank, said oil discharge line communicating with said tank over said baffle so that oil entering said tank flows over said baffle releasing air entrained therein, a vent line communicating with said tank over said baffle for removing said released air, oil separating means in said vent line arranged to restrict the area thereof and to change the direction of air flow therein whereby oil still entrained in said air is separated, and a drain line connecting said oil separating means and said tank for returning said separated oil thereto, said vent line terminating in the exhaust of said turbine whereby vaporized oil which has not been separated from said air is burned.

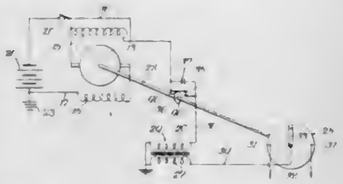
2,613,499

STARTER AND IGNITION MEANS FOR TURBOJET ENGINES

Curtis N. Lawter, Trenton, N. J., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application February 4, 1948, Serial No. 6,317
1 Claim. (Cl. 60—39.14)

The combination of a turbo-jet engine having a plurality of fuel burners and a centrally disposed rotatably mounted drive shaft and a unitary starter and ignition means for said engine including a plurality of spark plugs cooperating with the burners to initiate a burning of the fuel in the engine, comprising a starter motor having a frame and a drive shaft, said shaft being adapted to be detachably connected to the turbine shaft of the engine, a distributor mounted on said frame coaxially with said drive shaft, a rotor in said distributor, said rotor being carried by said shaft, an ignition coil, a battery connected to said coil, a series of contact points in said distributor that are adapted for cooperation with said rotor, the number of said points in said series being a multiple greater than one of the number of spark plugs with at least two of said contact points being electrically connected to each of said



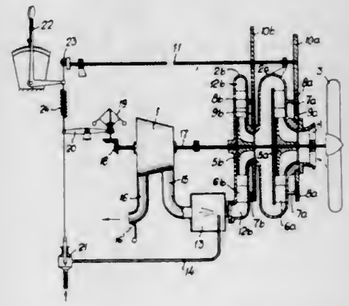
spark plugs, the connections between each of the spark plugs and said series of contact points swept by the rotor being consecutively arranged so that adjacent points are connected to different plugs, and said distributor being operably connected to said battery and coil whereby the plugs connected to said series of contact points may be consecutively caused to spark a plurality of times during each revolution of the rotor.

2,613,500

GAS TURBINE POWER PLANT HAVING MEANS FOR JOINT CONTROL OF THE FUEL AND THE AIR SUPPLY

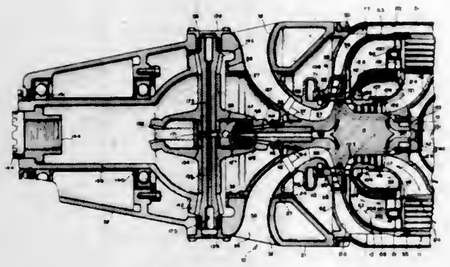
Alf Lysholm, Stockholm, Sweden

Application June 12, 1946, Serial No. 676,312
In Sweden June 22, 1945
4 Claims. (Cl. 60—39.27)



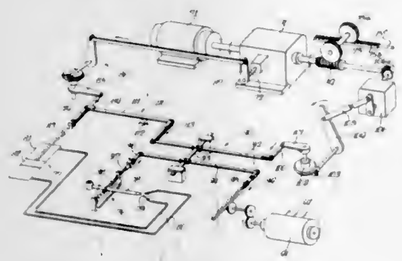
1. In a gas turbine power plant, a gas turbine, a centrifugal air compressor having an air inlet and an air outlet, means for mechanically connecting the air compressor with the turbine for driving the air compressor from the turbine at a constant ratio of speed, a combustion chamber, a conduit for supplying compressed air from said compressor to said combustion chamber, means for supplying fuel to said combustion chamber, a conduit for supplying combustion products from said combustion chamber to said turbine, means for controlling the quantity of fuel supplied to said combustion chamber, and vanes in the compressor, adjustable for controlling the throat area of the vanes for controlling the compressor characteristic, and operatively connected to said fuel means for joint control of the fuel supply and the said throat area, so that the compressor characteristic is automatically adapted to changed conditions as regards fuel supply, speed and load.

2,613,501
INTERNAL-COMBUSTION TURBINE POWER PLANT
Nathan C. Price, Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application June 2, 1945, Serial No. 597,308
15 Claims. (Cl. 60—39.51)



3. In an internal combustion gas turbine, a rotor, compressor means comprising impeller blading on the rotor, turbine means comprising buckets on the rotor, a combustion chamber surrounding the turbine means and discharging combustion gases into the turbine means, and an annular heat exchanger in coaxial relation with the rotor and in axial alignment with the combustion chamber receiving the exhaust gases from the turbine means and conducting compressed air from the compressor means to the combustion chamber.

2,613,502
POSITIONING CONTROL SYSTEM FOR REMOTE ELEMENTS, INCLUDING HYDRAULIC TRANSMISSION UNITS
Herbert Ziebolz, Daniel T. Gundersen, and Robert K. Baetzmann, Chicago, Ill., assignors to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application January 25, 1946, Serial No. 643,420
11 Claims. (Cl. 60—53)

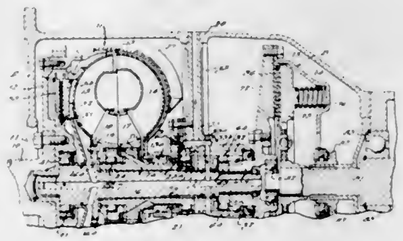


1. In a remote control system a control member located at a master station, a member to be controlled located at a remote station, said controlled member being mounted to duplicate the movements of said control member, power means for imparting movement to said controlled member, and apparatus for governing said power means to cause said controlled member to assume positions corresponding to the positions of said control member comprising, in combination, means having a part located at the master station and a part located at the remote station duplicating at the remote station movements of said controlled member, means for duplicating at the remote station movements of said controlled member reduced to the proportions of the duplicated movements of said control member, and means to control the operation of said power means including a regulator having a neutral position, extreme positions of adjustment on either side of neutral producing maximum rate of operation of said power means and positions intermediate the extreme positions producing a rate of operation proportional to the departure from neutral, and an adjusting system for said regulator responsive to the movements and indicated positions of said members adjusting said regulator to extreme position for all but small departures from correspondence in the positions of said members.

7. In a remote control system a control member located at a master station, a member to be controlled located at a remote station, said controlled member being mounted to duplicate the movements of said control member, power means for imparting movement to said controlled member, and apparatus for governing said power means to cause said controlled member to assume positions corresponding to the positions of said control member comprising, in combination, means having a part located at the master station and a linearly movable part located at the remote station duplicating movements of said control member, means for duplicating at the remote station movements of said controlled member reduced to the proportions of the duplicated movements of said control member including a generally linearly movable part, a piston and cylinder type hydraulic motor for adjusting said power means to various output rates, a pivoted jet-pipe type regulator for governing said motor, and a linkage system for controlling said regulator comprising a jet pipe actuator link, a second link pivotally connected at one end to said actuator link and at the other end to said linearly movable part, a third link pivotally connected at one end to the generally linearly movable part and disposed generally parallel with said second link, said second and third links being each pivotally mounted intermediate its ends on a bar slidable in a direction generally transversely of said links pivoted thereto, and a fourth link fulcrumed intermediate its ends and pivotally connected at one end to be moved by said motor and pivotally connected at its remaining end to the remaining end of said third link.

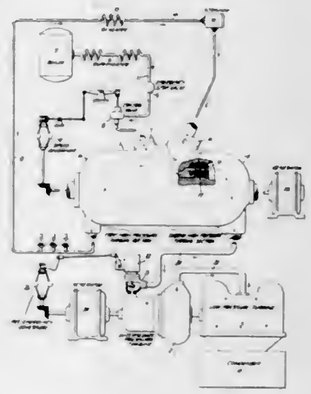
2,613,503
ROTARY HYDRAULIC TORQUE CONVERTER
Augustin J. Syrovy, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application August 5, 1948, Serial No. 42,725
2 Claims. (Cl. 60—54)

2. A fluid driven transmitting device comprising a driving shaft, a hydraulic torque converter mounted concentrically about an end of said driving shaft comprising a casing having mounted therein a vaned impeller, a vaned turbine, and vaned primary and secondary guide wheels arranged for relative rotation and disposed so as to form a closed toroidal circuit, means drivingly connecting said driving shaft to said impeller, a driven shaft piercing said casing and drivingly connected to said turbine member, said driven shaft being axially aligned with said driving shaft and extending through the hub portions of said wheels, a sleeve-like hub member rotatably mounted on said driven shaft and extending concentrically between said converter guide wheel hubs and said driven shaft, means fixedly connecting said primary guide wheel to a portion of said hub member intermediate the ends thereof, a stepped formation in one end of said hub member, a first one-way brake means mounted in said step formation rotatably supporting and drivingly connecting said secondary guide wheel to said one end of said hub member for forward rotation



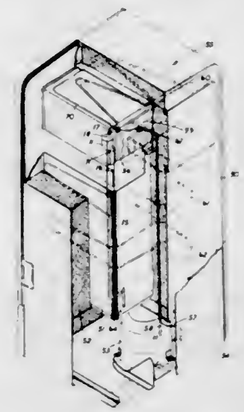
relative thereto, a second one-way brake means connecting the other end of said hub member to a relatively stationary member, said first and second one-way brake devices restraining reverse rotation of said guide wheels, and a one-way clutch arranged concentrically between and connecting mating portions of said driving and driven shafts to prevent overrunning of said driven shaft relative to said driving shaft in a forward direction.

2,613,504
COMPOUND TURBINE POWER PLANT WITH INTERCEPT VALVE
Glenn B. Warren, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 5, 1951, Serial No. 229,992
2 Claims. (Cl. 60—70)



2. In a compound turbine powerplant having a vapor generator supplying motive fluid to a first high pressure turbine section, a reheater for increasing the temperature of motive fluid received from the first high pressure section and delivering it to a second high pressure turbine section, and a comparatively long cross-over conduit supplying motive fluid from the second high pressure section to the inlet of a lower pressure turbine section, the combination of a control valve located between the vapor generator and the first high pressure section, an intercept valve located in said cross-over conduit at the entrance to said lower pressure section, and speed responsive means for simultaneously closing said valves, whereby elastic fluid trapped in the high pressure turbine and cross-over conduit upstream from the intercept valve is prevented from expanding through the lower pressure turbine, and the high pressure fluid remaining between said valves exerts a hydraulic braking effect on the high pressure turbine rotor.

2,613,505
CONTROL VALVE, SUCH AS FOR REFRIGERATING SYSTEMS
Woldemar George Nolcken, Headington, Oxford, England, assignor to Pressed Steel Company Limited, Oxford, England, a British company
Application May 26, 1949, Serial No. 95,497
In Great Britain February 25, 1949
11 Claims. (Cl. 62—2)

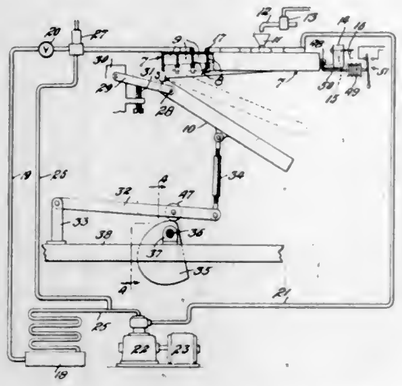


1. A control valve for controlling the flow of fluids between interconnected fluid circulatory systems, comprising a housing, inlet and outlet pipes connecting said housing with one circulatory system, an open vessel within said housing, means for floatingly supporting said vessel and for vertically moving it up and down in response to conditions desired to be controlled by the flow of fluid in the system, inlet and outlet pipes depending within said vessel to different depths and connecting said vessel with the other circulatory system so that upward movement of said vessel will close and downward movement thereof will open the pipe projecting to the smaller depth.

2,613,506
ICE-MAKING MACHINE
Dudley R. Cook, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 13, 1950, Serial No. 161,824
11 Claims. (Cl. 62—7)

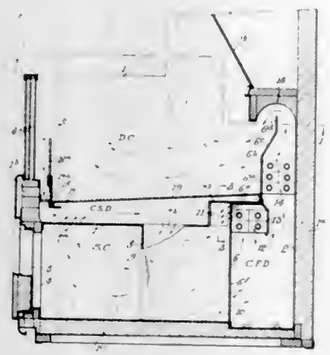
1. In an ice making machine, a mold having an open side from which ice may fall by gravity, elements cooperating with said mold for freezing liquid to form a cake of ice therein, means to discontinue freezing in the mold to release the cake of ice therefrom, a construction and arrangement of the elements to release the cake from one side of the mold before it is released from the

opposite side, and a support arranged for engagement by the side of the cake first released where-



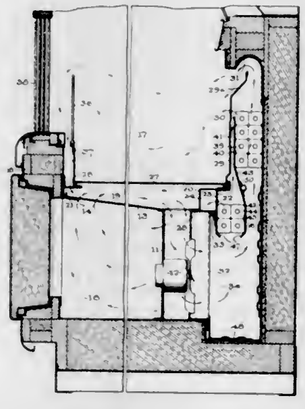
by to control its descent to cause the cake to fall freely from the mold.

2,613,507
OPEN TOP FROZEN FOOD REFRIGERATOR
Richard E. Pabst, San Antonio, Tex., assignor to Ed Friedrich, Inc., San Antonio, Tex., a corporation of Texas
Application January 30, 1950, Serial No. 141,268
3 Claims. (Cl. 62—89.5)



1. In an open top refrigerated display case comprising front, back and side walls, a vertical partition extending between the said side walls and spaced from said back wall for forming an air duct, a horizontal partition dividing the display case to provide a display chamber and a storage chamber, a shelf supported in spaced relation to said horizontal partition for forming a suction duct therebetween, said horizontal partition having an opening therein for admitting air from said storage chamber to said suction duct, a baffle located in spaced relation to said front wall in said display chamber and forming with said front wall a passage for air from said display chamber to said suction duct, means forming an air passage between said suction duct and said air duct, said vertical partition being provided with an opening for forming communication between said storage chamber and said air duct, and provided with a second opening therein located above said shelf for forming communication between said air duct and said display chamber, cooling means located in said air duct adjacent said openings in said vertical partition for delivering cold air to said storage and display chambers, and a blower located in said air passage means connecting said suction duct and said air duct for conducting air from said display and storage chamber through said suction duct to said air duct.

2,613,508
OPEN TOP FROZEN FOOD REFRIGERATOR
Paul H. Brinkoeter, San Antonio, Tex., assignor to Ed Friedrich, Inc., San Antonio, Tex., a corporation of Texas
Application August 10, 1951, Serial No. 241,310
5 Claims. (Cl. 62—89.5)

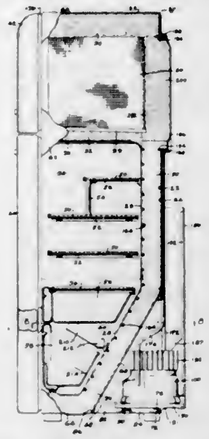


1. In an open-top refrigerated display case, an upper food compartment and a lower storage compartment, a common suction duct located between said compartments, a pressure duct communicating with both compartments at the rear thereof, cooling coil units in said pressure duct, one for each compartment, a blower device in said storage compartment and communicating with said common suction and pressure ducts for forcing air into said pressure duct and withdrawing air from said common suction duct, said common suction duct communicating with both compartments at the front of the same, and a panel having engagement with both of said cooling coils for conducting any moisture away from the said coils, said panel being spaced from the rear wall of said food compartment to provide a flue between said wall and one of said coils to insulate said coil from said rear wall of said food compartment.

2,613,509
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application September 22, 1948, Serial No. 50,472
3 Claims. (Cl. 62—103)

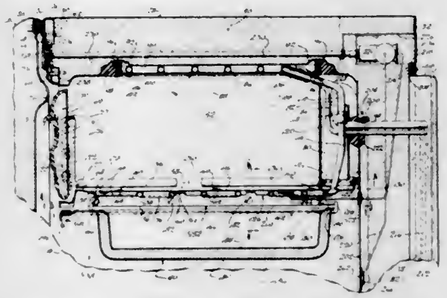
1. In refrigerating apparatus, a cabinet casing having a compartment and an access opening in a rear wall to the compartment, a removable closure member closing said opening, a cooling element within said compartment, insulation means between said cooling element and said casing, removable insulation means between said cooling element and said removable closure member, said first and second insulation means being pervious to moisture to allow passage thereof from within said casing to said cooling element, wire screening co-operating with said

insulation to form top and side walls of said compartment, and a separately removable screen



forming the rear wall of said compartment with said removable closure member.

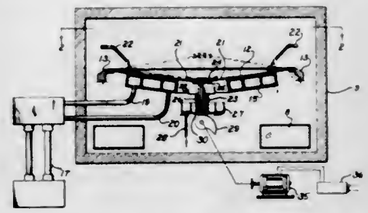
2,613,510
REFRIGERATOR
Evans T. Morton, Chicago, Ill., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Application January 6, 1947, Serial No. 720,330
8 Claims. (Cl. 62—103)



1. In a refrigerator, a compartment defining liner, thermal insulation surrounding said liner, a portion of the upper wall of said liner being formed to provide a recess open to the interior of such compartment, a cooling element located in said recess substantially flush with the inner surface of said liner adjacent said recess, and sealing means for preventing air circulation between the main space inside of said liner and the space between said cooling element and the recessed portion of said liner thereby to prevent an objectionable accumulation of frost in the last mentioned space.

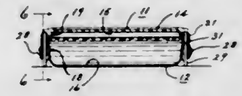
2,613,511
ICE-MAKING MACHINE
Edward C. Walsh, Oak Ridge, Tenn., assignor to Flakice Corporation, Brooklyn, N. Y., a corporation of Delaware
Application April 14, 1948, Serial No. 20,942
8 Claims. (Cl. 62—107)

1. In a machine of the character described, in combination, means forming a piece of material capable of being bowed outwardly from a plane, means for applying refrigeration to one side of said material, means arranged to apply water onto said material and freeze thereon and a mechanism arranged and positioned to apply a force against said material at a point spaced from its supports so as to oppositely bow said material outwardly from a plane and to thereby shear said ice off and to separate the ice from



said material, said piece of material forming one side of a pressure chamber and pumping means capable of changing the pressure in said chamber from below to above atmospheric, the refrigeration applying means being within the pressure chamber.

2,613,512
FREEZING DEVICE
Richard S. Gaugler, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 17, 1949, Serial No. 116,293
2 Claims. (Cl. 62—108.5)

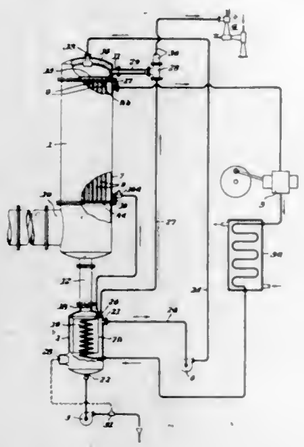


1. In combination, an ice tray, a one-piece flexible grid capable of being manually distorted disposed in said tray and removable therefrom as a unit, said grid having an imperforate cover portion extending over said tray, said grid also having a plurality of walls depending from said cover portion thereof and extending in continuous spaced apart substantially parallel relation transversely across said tray, the spacing of said grid walls together with their cooperation with the bottom and side walls of said tray dividing the interior of the tray into long relatively narrow unobstructed ice stick forming compartments extending from one side wall to the opposite side wall of the tray, said grid being provided with a bead depending from said cover portion thereof spaced inwardly from the sides of said grid and extending continuously therearound, said continuous bead lying along the inner side of upright walls of said tray and terminating a short distance below the top of said tray walls, said bead on said grid cooperating with said cover portion thereof to form a pocket therebelow, and the edge of said bead adjacent said upright tray walls being spaced therefrom to permit, while placing said grid in said tray, excessive liquid in the tray to overflow said upright tray walls.

2,613,513
VAPOR CONDENSING APPARATUS AND METHOD
James R. Shields, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey
Application April 6, 1946, Serial No. 660,138
8 Claims. (Cl. 62—124)

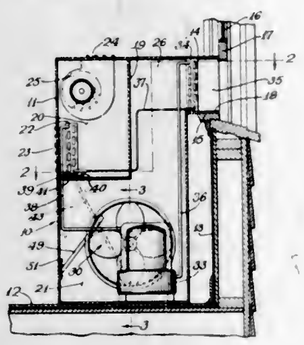
1. In a method of condensing and removing condensable vapor, the steps comprising, con-

tinuously passing said condensable vapor over a solid condensing surface adjacent thereto, refrigerating the condensable vapor by removal of heat through said condensing surface to a temperature sufficient to condense said condensable



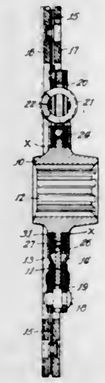
vapor to at least a partially solid state, and continuously passing a film of liquid over said condensing surface in contact therewith, whereby as said condensed vapor is condensed it is continuously prevented by said liquid from adhering to said condensing surface.

2,613,514
CONDENSATE DISPOSAL MEANS
William F. Borgerd and John Calling, Evansville, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application May 5, 1951, Serial No. 224,783
8 Claims. (Cl. 62—140)



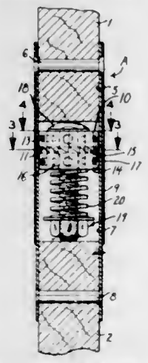
1. Refrigerating apparatus comprising an evaporator for cooling air, a condenser for cooling refrigerant, a compressor for compressing refrigerant and delivering it to said condenser, a propeller fan for circulating air over said condenser, a circular rim secured to the blade tips of said fan, said rim having a groove adapted to hold water, a trough for conducting condensate from the evaporator to said groove, said condensate being rotated with said rim when the fan is operating, and means for scraping the condensate from the groove so that it is thrown onto said condenser.

2,613,515
DRIVEN PLATE FOR FRICTION CLUTCHES
Frederick Crutchley, Leamington Spa, England, assignor to Borg-Warner Corporation, Chicago, Ill.
Application April 19, 1946, Serial No. 663,329
In Great Britain April 20, 1945
4 Claims. (Cl. 64—27)



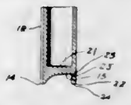
1. A clutch driven plate comprising a hub member having an apertured radial flange; a radially extending annular member; an intermediate member between the said hub member and said annular member, said annular member comprising two interconnected discs disposed one on each side of said hub flange, and said intermediate member comprising a pair of rings located one between each of the said discs and hub flange, the said rings being restrained against radial and circumferential movement relative to said hub flange and having frictional engagement with said discs; and balls slidable in the apertures in said hub flange having diameters greater than the thickness of said hub flange, said balls being effective to space said rings apart a distance greater than the thickness of said hub flange.

2,613,516
OVERLOAD RELEASE COUPLING
Ned J. Rees, St. Louis, Mo., assignor to James R. Kearney Corporation, St. Louis, Mo., a corporation of Missouri
Application August 6, 1947, Serial No. 766,564
2 Claims. (Cl. 64—29)



1. A tool for applying devices to overhead electrical conductors comprising a pair of axially alined pole members, tubular elements secured to said pole members at adjacent ends thereof, ratchet disks supported by said tubular elements and having ratchet teeth which mesh to mechanically connect said ratchet disks together whereby axial rotation of one of said pole members is transmitted to the other of said pole members through said interengaged ratchet disks, a bolt having a head which engages one of said ratchet disks and having a shank which extends through apertures formed through said ratchet disks, a coil spring embracing said bolt shank, an abutment mounted for adjustment on said bolt shank, said coil spring being interposed under compression between said abutment and one of said ratchet disks whereby the ratchet teeth of said ratchet disks are normally forced into meshing engagement, and said coil spring being adapted to yield under excessive torque is applied to the tool so as to permit relative rotation of said ratchet disks and the pole members to which they are related, and an outer sleeve which embraces portions at least of said tubular elements and is secured to one of said pole members, said ratchet teeth being so shaped that said coil spring yields when excessive torque is applied to the tool to permit relative rotation of said ratchet disks when the tool is rotated in one direction only, the ratchet disks remaining in engagement when the tool is rotated in the opposite direction to apply excessive torque to the tool.

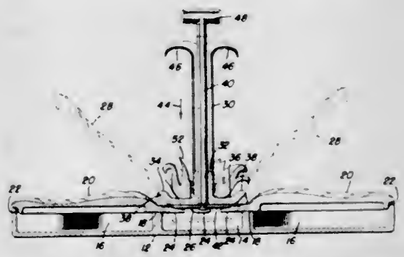
2,613,517
CREAMER
Walter A. Frantz, Shaker Heights, Ohio
Application October 7, 1949, Serial No. 120,134
1 Claim. (Cl. 65—31)



A creamer adapted to be carried on the edge of a saucer or rested upon a flat surface, comprising an elongated, upright body consisting of a bottom wall, a vertically-extending side wall and an open top, forming a receptacle, said upright side wall having a portion of concave form throughout its length so as to conform generally to the contour of a cup carried on said saucer and the lower face of the bottom wall including an arcuate surface extending upwardly and outwardly from the lower edge of the concave side wall portion and continuing in a nearly flat, horizontal portion to a point adjacent the opposite portion of said side wall, said opposite wall portion terminating in a leg portion projecting below the said horizontal portion of the bottom surface to form a recess whereby the creamer is supported on said saucer by said concave side wall engaging the base of the saucer and with the rim of the saucer projecting into said recess and engaging the wall thereof, said leg portion and concave portion of the side wall terminating in the same plane so that said creamer may stand in upright position upon a flat surface.

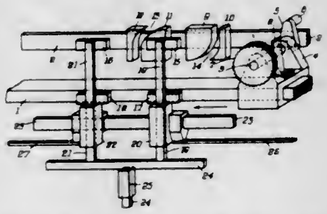
2,613,518
MULTICOMPARTMENT DISH WITH COACTING COVERS
Robert B. Karoff, New York, N. Y., assignor, by mesne assignments, to Novelty Utilities, Inc., New York, N. Y., a corporation of New York
Application June 21, 1949, Serial No. 100,390
1 Claim. (Cl. 65—60)

A dish of the character described, comprising in combination, a substantially flat receptacle including a circular center portion and at least three radially projecting side portions each affording a compartment therein, said center portion being provided with a recess and having an annular wall separating said recess from said compartments, said wall having an upper edge portion provided with circumferentially spaced notches affording communication between the respective compartments and the recess, each notch having a bottom edge constituting a horizontal fulcrum, a set of upwardly and downwardly swingable covers provided on the respective compartments, relatively narrow fingers provided at the inner edges of said covers, said fingers extending through the respective notches into said recess and engaging the respective ful-



crums whereby said covers may be swung, laterally projecting stops provided on said fingers in said recess, whereby to prevent the fingers from being withdrawn outwardly from said notches, an upright tubular handle provided at its lower end with a flange rigidly secured to the center portion of said receptacle and disposed above said recess, marginal edge portions of said flange being provided with arches affording clearance for said fingers, an upright actuating rod slidable through said handle and projecting at its lower end into said recess, and a disc disposed in the recess and secured to the lower end of said rod, said disc operatively engaging said fingers, whereby said covers may be simultaneously opened and closed.

2,613,519
THREAD CARRIER DRIVING MECHANISM FOR STRAIGHT BAR KNITTING MACHINES
Kurt Willi Wickardt, Liverpool, England, assignor to Hosemaster Machine Company Limited, Liverpool, England, a British company
Application September 23, 1950, Serial No. 186,371
In Great Britain July 8, 1949
22 Claims. (Cl. 66—130)



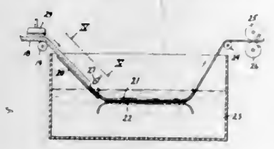
1. In a straight bar knitting machine, such for example as a Cotton type machine, in which one element is periodically linearly displaced by another, the provision of a cycloidally engaging and disengaging coupling device between said elements to achieve substantially shock free acceleration and deceleration of said one element.

2,613,520
KNITTED FOOTWEAR
Margaret E. Schaefer, St. Louis, Mo.
Application March 2, 1950, Serial No. 147,248
13 Claims. (Cl. 66—178)



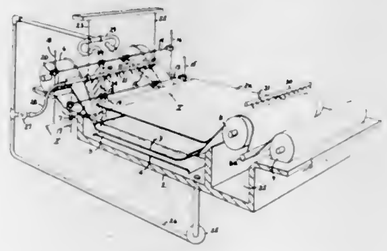
1. A stocking including a sole portion, a foot-body portion, and a knitted insert or panel characterized by inclined wales, and extending uninterruptedly along a convex line about the forepart of the foot region of the stocking from a zone close to the ball of the foot at one side thereof, and to the cuboid region on the opposite side of the foot.

2,613,521
APPARATUS FOR HANDLING TRICOT FABRICS
Leslie L. Walmsley, Ridley Park, Pa., assignor to American Viscose Corporation, Philadelphia, Pa., a corporation of Delaware
Application July 8, 1948, Serial No. 37,638
3 Claims. (Cl. 68—62)



1. Apparatus for uncurling the selvages of a tricot fabric having curled selvages and for stabilizing the fabric in flat, uncurled condition which comprises, in combination, a vessel for containing a heated liquid, a horizontal roll outside and above the vessel adjacent one end thereof, a guiding member extending lengthwise between the ends of the vessel and having a width at least as great as the full width of the fabric supported in the heated liquid and having a smooth, continuous lower surface defining the upper side of a path for the fabric through the liquid and preventing curling of the fabric passing through the liquid, means comprising a driven roll adjacent the other end of the vessel for moving the fabric from the first roll downwardly under the guiding member through the heated liquid, a stationary inclined plate extending downwardly from a position adjacent the first-mentioned end of the vessel to a position in proximity to the adjacent end of the lower surface of the guiding member, and uncurling means comprising a pair of means disposed adjacent the plate inwardly of its edges and oppositely and laterally outwardly directed with respect to the path of the fabric thereover for spreading the selvages of the fabric out against the plate, said spreading means being supported between the roll and the guiding member immediately adjacent the entrance to the path defined by the lower surface of the guiding member for rolling back the selvages of the fabric as it enters said path.

2,613,522
APPARATUS FOR TREATING FABRICS AND UNCURLING THE EDGES THEREOF
Robert D. Heffelfinger, Lansdowne, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application September 14, 1949, Serial No. 115,680
8 Claims. (Cl. 68—62)

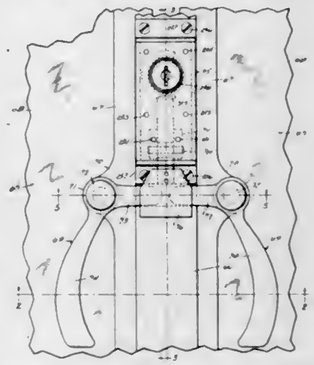


1. Apparatus for uncurling the edges of a fabric having curled edges and stabilizing the fabric in flat, uncurled condition comprising, in combination, a vessel for containing a relaxing liquid for the fabric, guiding means supported in the vessel and defining a substantially straight-line path for the fabric through the vessel below the level of the liquid therein along which the fabric travels freely in the absence of contact pressure, said guiding means being at least as wide as the flat fabric and arranged to prevent curling of the edges of the fabric, a guide plate supported in inclined relation to the guiding means in the vessel and extending from outside the vessel to the entrance of the path defined by the guiding means in the vessel, means for continuously feeding a fabric warpwise downwardly over the inclined guide plate to the vessel and for drawing the fabric along the path defined by the guiding means and from the vessel in a substantially untensioned condition, a pair of conduits which diverge in the direction of travel of the fabric arranged above and parallel to the guide plate and extending to the entrance to the path defined by the guiding means in the vessel, said conduits being provided along their length with spaced perforations at least one perforation in each conduit being adjacent to the entrance to the path defined by the guiding means in the vessel, and means for projecting liquid under pressure through the perforations outwardly from the conduits against the opposite edges of the fabric advancing over the guide plate and into the path defined by the guiding means in the vessel.

2,613,523
LOCK MECHANISM FOR WINDOW LATCHES
Neil O. Holmsten, New Rochelle, N. Y.
Application April 23, 1949, Serial No. 89,184
1 Claim. (Cl. 70—89)

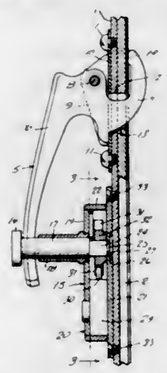
A latching mechanism for securing a window frame closed against a jamb wherein a latching arm is pivotally mounted on said window frame to be moved in a plane parallel to said jamb into and out of engagement with said jamb, said latching mechanism comprising a casing to be mounted on said jamb, a catch pivotally mounted in said casing for movement in a plane normal to said jamb to engage said latching arm when depressed toward said jamb to hold said latching arm against movement, a cylinder lock in said casing having a rotary plug, a rotary cam secured to said plug, said cam engaging said catch and operative

to hold said catch in engagement with said latching arm, and spring means operative to withdraw



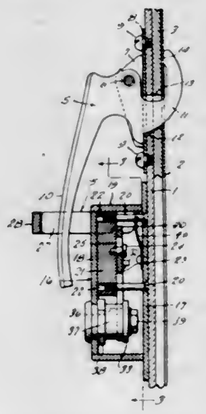
said catch from engagement with said latching arm when released by said cam.

2,613,524
LOCKING MECHANISM FOR WINDOW LATCHES
Neil O. Holmsten, New Rochelle, N. Y.
Application April 23, 1949, Serial No. 89,185
1 Claim. (Cl. 70—89)



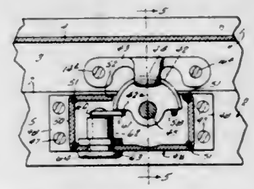
Locking mechanism for securing a window latch adapted to hold a swinging window closed against a jamb and having a latching finger pivoted to said jamb to engage and hold the window closed and having an operting handle mounted to swing outwardly in a plane normal to said jamb to move said finger into and out of engagement with the window, said handle when in latching position extending along said jamb and having a top surface a portion of which at least is parallel to said jamb, said locking mechanism comprising a casing to be secured to said jamb under said handle, a shaft rotatably mounted in said casing and projecting outwardly threfrom, a lever rigidly secured to the outer end of said shaft and adapted when in locking position to overlie and engage said top surface of said operating handle to prevent outward movement thereof and when in releasing position to extend parallel to said handle, a disc having a notch rigidly secured to said shaft within said casing, a lock in said casing having a plunger adapted to be inserted into said notch for securing said shaft against rotation with said lever in handle-engaging position, and spring means to align said notch with said plunger.

2,613,525
LOCKING MECHANISM FOR WINDOW LATCHES
Neil O. Holmsten, New Rochelle, N. Y.
Application April 23, 1949, Serial No. 89,186
1 Claim. (Cl. 70—89)



A locking mechanism for securing a window latch adapted to hold a swinging window closed against a jamb and having a latching finger pivoted to said jamb to engage and hold the window closed and having an operating handle mounted to swing outwardly in a plane normal to said jamb to move said finger into and out of engagement with the window, said handle when in latching position extending along said jamb and having a top surface a portion of which at least is parallel to said jamb, said locking mechanism comprising a casing secured to said jamb, a U-shaped shackle adapted to be disposed about said operating handle and having parallel legs extending to said casing, a plunger slidably mounted in said casing and spring-pressed into latching engagement with said legs, a cylinder lock extending into said casing and having a rotary plug incorporated therein, a stud secured to said plunger, and a lever secured to said rotary plug adapted to engage said stud to withdraw said plunger from engagement with said legs when said plug is rotated.

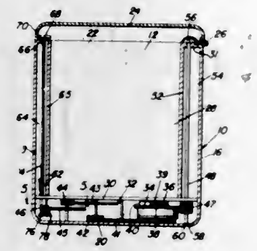
2,613,526
WINDOW LOCK
Neil O. Holmsten, New Rochelle, N. Y.
Application April 23, 1949, Serial No. 89,183
1 Claim. (Cl. 70—90)



In a latching mechanism for a window having a pair of slidable sashes with engaging frame members and a keeper secured to one frame member, a casing to be secured to the other frame member, said casing having closed top, bottom, front and end walls and a rear wall with an opening, a vertical shaft rotatably mounted in said housing and extending upwardly through

said top wall, a handle on said shaft above said top wall for turning said shaft, an arcuate latching cam mounted on said shaft within said casing to extend through said opening and having an arcuate cam surface to engage beneath said keeper for latching said window, said arcuate cam having a substantially radial end forming a shoulder, a cylinder lock secured to the front wall of said casing and extending horizontally into said casing, said cylinder being spaced laterally on one side of said cam and terminating rearwardly opposite said shoulder when said cam is in latching position, said lock including a rotary plug rotatable about a horizontal axis, and a locking arm connected to the inner end of said plug within said casing to be shifted laterally by the rotation of said plug into and out of the path of said shoulder to prevent movement of said cam.

2,613,527
TIME CONTROLLED CIGARETTE CASE
Garrett H. Harris, Jackson, Miss.
Application June 29, 1950, Serial No. 171,028
7 Claims. (Cl. 70—273)



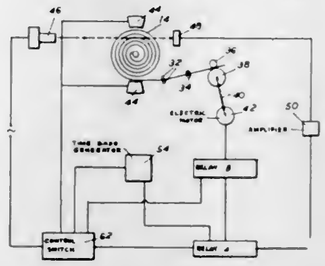
1. A device to hold cigarettes comprising a case with an opening, a closure arranged to close said opening, a bolt carried by said case to retain said closure in the closed position, a timer connected with said bolt to release said bolt from said closure at predetermined intervals, and means carried by said case and controlled by said closure to stop said timer when said closure is in the open position.

2,613,528
CYLINDER LOCK
Johannes Erkki Salmivuori, Helsingfors, Finland, assignor to Aktiebolaget Addo, Malmo, Sweden, a corporation of Sweden
Application February 24, 1948, Serial No. 10,331
In Finland February 7, 1947
Section 1, Public Law 690, August 8, 1946
Patent expires February 7, 1967
12 Claims. (Cl. 70—366)



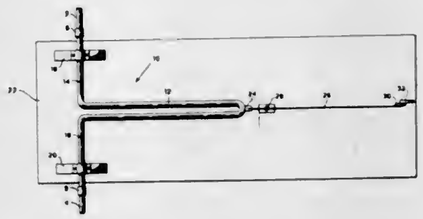
9. A cylinder lock operable by a key, comprising a casing having a cylinder bore and a primary longitudinal locking groove and a secondary longitudinal locking groove in its inner wall, and a cam surface forming one side of each locking groove, a lock barrel in said bore having a primary longitudinal slot and a secondary longitudinal slot corresponding to said locking grooves, a plurality of tumbler disks independently rotatable in said barrel and having each a primary and a secondary opening recess so positioned at the edges of the disks as to be aligned for forming a continuous opening groove behind each of said barrel slots on rotation of said disks by said key in opening direction and having one edge fashioned to form a cam surface in each opening groove, said disks also having blind recesses, a primary and a secondary tumbler bar in said primary and secondary barrel slot, respectively, which in locking position are partly received in said primary and secondary locking groove, respectively, to prevent rotation of said barrel in relation to said casing and in opening position partly received in said primary and secondary opening groove, respectively, for permitting rotation of said barrel in relation to said casing and preventing rotation of said tumbler disks in relation to each other and to said barrel, each tumbler bar having a cam surface for cooperation with said cam surfaces in said locking grooves and said opening grooves to force said tumbler bars into opening and locking position, respectively, on rotation of said disks in opening or closing direction, said secondary tumbler bar being so dimensioned in relation to said secondary locking groove as to leave in locking position a clearance space between its cam surface and said cam surface in said locking groove, permitting said secondary tumbler bar to be forced into engagement with said tumbler disks only when said primary tumbler bar is in opening position releasing said barrel and locking said tumbler disks.

2,613,529
DEVICE FOR TIMING AND ADJUSTING BALANCE WHEEL ASSEMBLIES
Laszlo Nemenyi-Katz, London, England
Application November 30, 1949, Serial No. 130,108
In Great Britain November 30, 1948
1 Claim. (Cl. 73—6)



An apparatus for automatically adjusting a balance wheel and hair-spring assembly adapted for use in time-pieces and the like, in which the assembly is mounted in a manner simulating the conditions within the mechanism wherein the assembly is to be used, comprising: electrical means for maintaining the balance wheel in a state of continuous self-oscillation throughout the adjustment; means under the control of the balance wheel for producing electrical wheel pulses of a frequency corresponding to that of the self-oscillations of the balance wheel; an electrical time-base generator producing standard pulses at predetermined intervals of time; means under the control of the said electrical wheel pulses adapted to initiate the starting of each time-base operation of the said generator; an electric motor adapted to rotate only when there is a time discrepancy between the wheel pulses and the standard pulses of the balance wheel and time-base generator respectively and to stop when the said discrepancy is reduced to zero; and means between the electric motor and the hairspring capable of effecting a shortening movement of the hairspring under the control of the electric motor the latter means comprising a roller secured to the motor shaft and another roller, between which two rollers lies the outer end of the hair spring in frictional contact therewith, whereby the shortening of the hair spring is effected gradually by the electric motor as the discrepancy interval between the wheel pulses and the standard pulses is reduced and the further shortening of the hairspring stops when the said discrepancy interval has been reduced to zero and the electric motor stops.

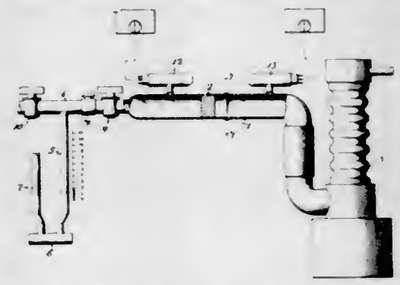
2,613,530
MUD WEIGHING APPARATUS
Charles R. Nichols, McAllen, Tex., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application January 6, 1950, Serial No. 137,067
4 Claims. (Cl. 73—32)



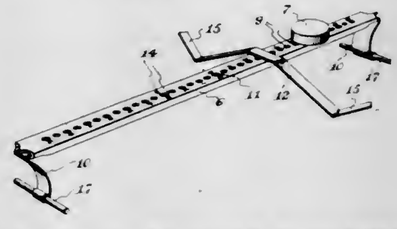
1. Apparatus for indicating the density of well drilling fluid comprising fluid conducting means, said fluid conducting means including a substantially horizontally disposed conduit having a looped center portion and laterally extending end portions, said end portions of said conducting means being adapted to be connected to fluid supply means and fluid disposal means, means rigidly mounting said conducting means adjacent to said end portions thereof, and means indicating the displacement of the looped center portion of said fluid conducting means resulting from the deflection of said conducting means between said mounting means due to the weight of the fluid passing therethrough.

2,613,531
DIFFUSION MEASURING METER
Conrad G. Bacon, Oak Ridge, Tenn., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application November 14, 1944, Serial No. 563,400
2 Claims. (Cl. 73—38)

1. A device for measuring the porosity of a substance comprising, in combination, means forming a passageway divisible into first and second chambers by insertion of a sample of said substance therein, first valve means defining the intake end of said first chamber, evacuating means connected to the exit end of said second chamber to maintain substantially equal pressures in said chambers, a third chamber communicating with a source of gas through an entry valve and with said first chamber through said first valve means, a manometer communicating with said third chamber, and a leak port disposed within said third chamber between said manometer and said first valve means for bleeding said gas therethrough.



2,613,532
INSTRUMENT FOR DETERMINING WHEEL BALANCE
Clarence M. Jones, Tulsa, Okla.
Application April 13, 1948, Serial No. 20,653
5 Claims. (Cl. 73—66)

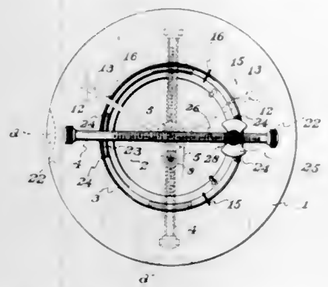


1. A device for determining the unbalance of a wheel mounted on an axle spindle with the axis of the spindle and wheel in substantially a horizontal plane and the position to apply a weight to the wheel to correct said unbalance, said device comprising an elongated member extending diametrically across the wheel and through the axis of the wheel, means for detachably connecting the ends of said elongated member to the wheel at diametric positions to each other and spaced from the axis of the wheel in a vertical position with the unbalance weight of the wheel downwardly disposed, said elongated member being adapted to be rotated with the wheel and the unbalance of the wheel to a horizontal position, a counter-weight on said elongated member and adjustable inwardly and outwardly in relation to the axis of the wheel on said elongated member at the opposite side of the axis of the wheel from the unbalance weight of the wheel for establishing the amount of weight to be applied to the wheel to balance the unbalance of the wheel, said wheel being provided with an annular tire holding flange having a concaved inner surface, said means for attaching said elongated member to the wheel comprising spring arms carried by the ends of the elongated member, said spring arms engaging and gripping said concaved surface of the flange.

2,613,533
INSTRUMENT FOR DETERMINING WHEEL BALANCE
Clarence M. Jones, Tulsa, Okla.
Application April 13, 1948, Serial No. 20,654
10 Claims. (Cl. 73—66)

1. A device adapted to be attached to the side of a wheel assembly for measuring and counter-

balancing the unbalance weight of the wheel assembly when the unbalanced weight is at the bottom of the wheel, said device comprising a graduated bar applied to the wheel side in a vertical position, means carried by the bar for attaching the bar to the wheel side across the axis of the wheel and at opposite sides of the wheel, means carried by the bar for locating points of application of two balance forces, one on either side of the bar, said means comprising a radial member having a marker guide edge passing through the axis of the wheel, said radial



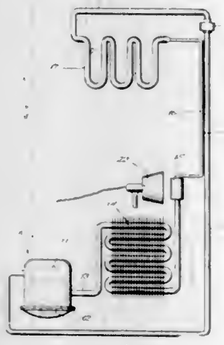
member being swingable to opposite sides of the vertical and limited on opposite sides of the vertical to positions where a marker guide edge will be sixty degrees on either side of the vertical bar, said wheel assembly and vertical bar being rotatable about the wheel axis to place the bar in horizontal alinement with the unbalance of the wheel assembly and a counter-weight slidably mounted on the bar opposite the unbalance portion of the wheel and forming means whereby the weight of the unbalance is established for applying the counter-balance weights to the points of balancing force application.

2,613,534

METHOD OF TESTING FOR EXCESS MOISTURE CONTENT IN REFRIGERATING SYSTEMS

Paul F. Schreiber, Evansville, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application July 3, 1948, Serial No. 36,906
7 Claims. (Cl. 73—73)



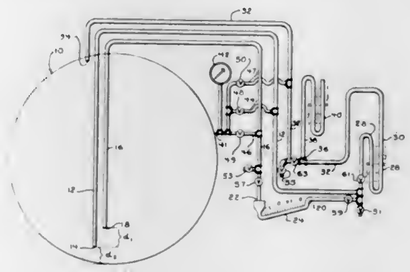
1. A method for determining the presence of excess moisture content in a refrigerant circulating in a closed refrigerating apparatus which comprises, operating the refrigerating apparatus until the desired operating evaporator temperature has been attained and the condensing unit is cycling normally, subjecting the moisture adsorbing portion of the high pressure side of the apparatus to external heat, operating the refrigerating apparatus while subjected to such external heat, and detecting the presence of excess moisture by a rise in temperature of the evaporating unit.

2,613,535

LIQUID LEVEL GAUGE

Paul L. Born, Wilmette, Ill.

Application December 8, 1949, Serial No. 131,833
2 Claims. (Cl. 73—299)



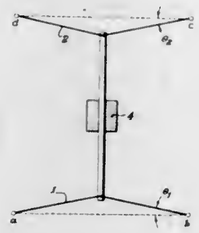
1. A gauging device for a storage tank comprising a first conduit adapted to extend into the tank and have an opening adjacent the bottom of the tank and a second conduit adapted to extend into the tank and have an opening at a known higher level than the opening of said first conduit, said first and second conduits being connected with opposite ends of a differential pressure gauge, the specific gravity of the measuring fluid in said gauge being known, and a third conduit adapted to extend into said tank and have an opening adjacent the top of the tank, said third conduit and said first conduit being connected with opposite ends of a differential pressure gauge.

2,613,536

GRAVITY METER

John J. Jakosky, Los Angeles, Calif.

Application July 30, 1946, Serial No. 687,060
9 Claims. (Cl. 73—382)



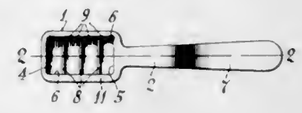
1. An apparatus for measuring variations in gravitational attraction which comprises a mass suspended by at least two electrical conductors insulated from each other, said conductors being positioned in a substantially horizontal manner and forming at least two legs of a Wheatstone bridge whereby variations in the resistance of said conductors accompanying said variations in gravitational attraction may be measured.

2,613,537

MEASURING VESSEL

Thomas D. Di Addario, Buffalo, N. Y.

Application December 22, 1948, Serial No. 66,780
4 Claims. (Cl. 73—426)



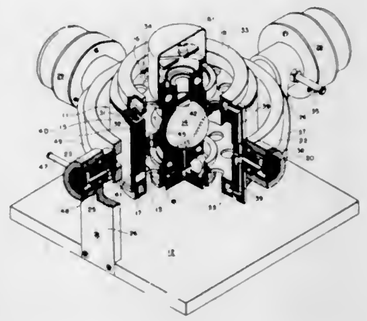
1. A measuring device for the apportionment of liquid ingredients consisting of a receptacle formed for stable support upon a table and provided with vertical end and side walls and with transverse webs to delimit a series of successive measuring chambers of equal capacity, the vertical walls at their upper ends being provided with outwardly and upwardly inclined integrally connected lips which extend from the webs and provide clearances for the overflow of liquid from one chamber to the succeeding chamber and also provide a circumscribing flange available for the support of the bottle from which the liquid is to be poured and further available to facilitate the pouring of the liquid from the receptacle.

2,613,538

LOW PRECESSION GYROSCOPE

Murray I. Edelstein, Columbus, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application February 2, 1949, Serial No. 74,215
13 Claims. (Cl. 74—5.37)



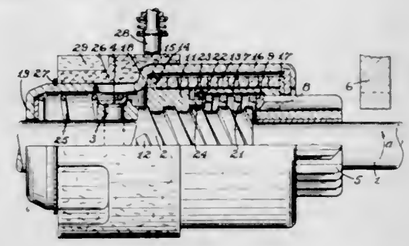
1. A gyroscopic device comprising: a base, a stator mounted on the base and a rotor journalled to spin on the stator, the mounting of the stator on the base providing for universal angular movement of the rotor axis relative to the base; a substantially spherical mass arranged within the rotor with its center coincident with the center of said universal angular movement, said mass being supported by the rotor for universal movement relative thereto about said center; means for spinning the rotor about its axis; means for sensing departures of the rotor axis from the axis of rotation of said mass; and means controlled by the sensing means in response to such departure for acting upon the rotor but not upon said mass to return said axes into coincidence.

2,613,539

ENGINE STARTER DRIVE

James J. Digby, Elmira, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware

Application March 27, 1950, Serial No. 152,100
4 Claims. (Cl. 74—7)



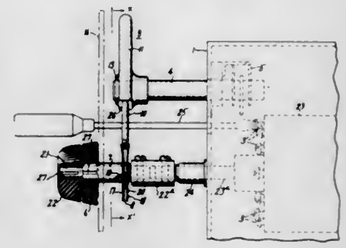
1. In an engine starter drive a power shaft, a screw shaft fixed thereon, a nut threaded on the screw shaft, a pinion slidably journaled on the power shaft for longitudinal movement into and out of mesh with a gear on the engine to be started, means for actuating the pinion from the nut including a sleeve splined to the pinion having a smooth cylindrical peripheral surface, and a coiled spring member bearing on said surface, anchored at one end to the nut and arranged to wrap down and grip the sleeve by transmission of cranking torque therethrough; and means for limiting the longitudinal travel of the nut; in which the means for limiting the meshing movement of the pinion includes a barrel member enclosing the nut, sleeve and torque-transmitting spring, and having an abutment for the sleeve at one end, and a flange at the other end which engages the end of the screw shaft when the pinion is in mesh with the engine gear.

2,613,540

WIRE TUNING DRIVE

Donald B. Keim, deceased, late of Syracuse, N. Y., by Arthur C. Kneibler, administrator, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

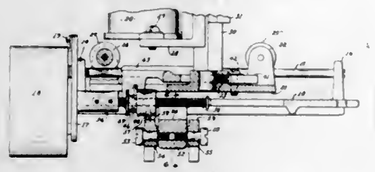
Application June 15, 1951, Serial No. 231,872
6 Claims. (Cl. 74—10.8)



1. A tuning drive mechanism comprising a panel, two parallel shafts journaled to said panel, means interconnecting said shafts for relative rotation with respect to each other comprising a disc-shaped member secured to one shaft and a ring-like member secured to the other shaft, said ring-like member comprising a relatively-resilient, arcuate, wire portion in peripheral engagement with said disc-shaped member and a relatively-rigid sectorial portion supporting the ends of said wire portion and means securing said sectorial portion to said

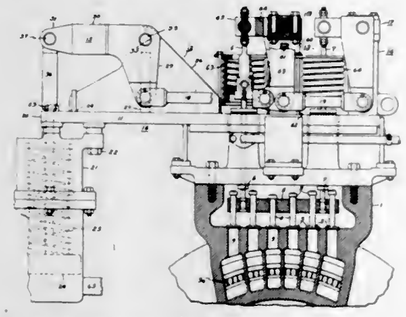
other shaft, said wire portion being capable of slight radial deformation as necessary to compensate for any slight misalignment between the contacting surfaces of said two members.

2,613,541
ACTUATING MECHANISM FOR RECIPROCATING CARRIAGES
Royal E. Crossley, Fayetteville, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application August 2, 1950, Serial No. 177,221
5 Claims. (Cl. 74—59)



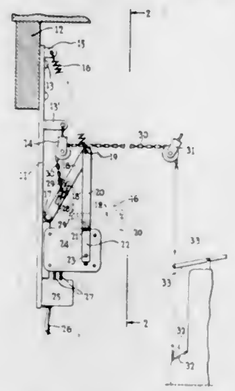
1. Actuating mechanism for a reciprocating carriage comprising a frame, a carriage actuating screw journalled in the frame and extending parallel to the movement of the carriage, a nut threaded on said screw, said carriage having means cooperable with the nut to permit rotation thereof and to restrain axial movement of the nut relative to the carriage, a fixed stop member arranged in juxtaposition to the screw and extending in parallel spaced relation thereto and being cooperable to restrain rotation of the nut during movement thereof axially along the screw, latch members mounted at the ends of said stop and cooperable to permit rotation of the nut in one direction only, and a reversible motor operatively connected to said screw to effect rotation of the same to cause reciprocation of the nut and carriage lengthwise of the stop member.

2,613,542
VALVE GEAR FOR STEAM TURBINES AND THE LIKE
Francis H. Van Nest and Lawrence B. Wales, Marblehead, Mass., assignors to General Electric Company, a corporation of New York
Application March 23, 1949, Serial No. 83,043
3 Claims. (Cl. 74—99)



1. In a valve gear for an elastic fluid turbine or like machine, the combination of an elongated horizontally disposed main frame member adapted to support a hydraulic motor on one end thereof and having another portion adapted to be secured to the frame of the machine, a truss pedestal projecting upward from the frame member adjacent the motor end thereof, a first bell-crank actuating lever member having a first pair of vertically disposed spaced parallel arms and a second pair of horizontally disposed spaced parallel arms connected to a bridge frame member with an end portion adapted to be connected to the hydraulic motor, pivot means connecting the mid-portion of said actuating lever member to the truss pedestal for pivotal movement about a horizontal axis transverse to the main frame, a second pedestal member disposed vertically above the main frame and secured thereto in spaced relation to the truss pedestal, a second bell-crank actuated member having a pair of spaced parallel vertically disposed arms and a pair of horizontally disposed spaced parallel arms with end portions secured to a bridge frame member having an end portion adapted to be pivotally secured to a valve actuating member, universal pivot means supporting the actuated member on said second pedestal for pivotal motion about a horizontal axis and limited oscillation about a vertical axis, and a pair of horizontally disposed parallel tension links having end portions pivoted to the respective vertical arms of said actuating and actuated members, whereby differential thermal expansion of said tension links produces slight oscillation about a vertical axis of said actuated bell-crank lever member.

2,613,543
DAMPER MOTOR
Wilbert A. Will, New Bremen, Ohio, assignor to Crown Controls Company, Inc., New Bremen, Ohio, a corporation of Ohio
Application May 20, 1949, Serial No. 94,314
11 Claims. (Cl. 74—99)

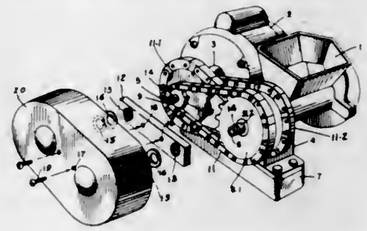


1. In a damper regulator mechanism, a damper motor comprising a housing containing an electric motor, reduction gearing and an output shaft extending therefrom, which output shaft turns 180° from one position to another, the combination of a support for said damper motor, an arm pivotally mounted on said support adjacent said damper motor, a link pivoted to said arm, a crank carried by said output shaft and pivoted to the other end of said link and a spring connected at one end to said support and at its other end to said link.

2,613,544
MOUNTING FOR TRANSMISSION GEARING AND GUARD
Otto Cullman, Chicago, Ill., assignor to Cullman Wheel Co., Chicago, Ill., a corporation of Illinois
Application August 17, 1951, Serial No. 242,260
5 Claims. (Cl. 74—219)

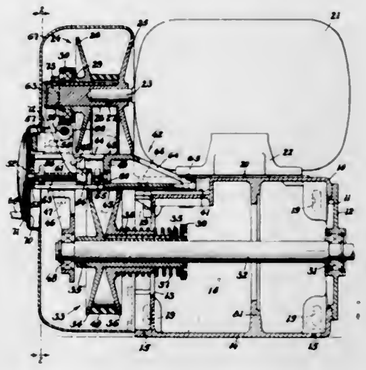
4. A transmission unit comprising a driving shaft, a sleeve fast on said driving shaft, a cog-

wheel fast on said sleeve, a pair of connected cogwheels loosely journaled on said sleeve, a driven shaft, a second sleeve fast on said driven shaft, a pair of connected cogwheels loosely journaled on said second sleeve and drivingly related respectively to said first-named cogwheel and the next adjacent member of the pair of loosely jour-



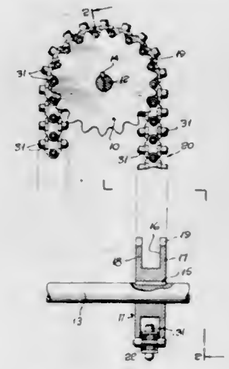
naled cogwheels on said driving shaft sleeve, a cogwheel fixed on said driven shaft sleeve and drivingly related to the other member of said first-named pair of connected cogwheels, a frame bar connecting said sleeves, said bar having bearings in which said sleeves are journaled, and means acting between said bar and sleeves to hold said bar on said sleeves.

2,613,545
SPEED-VARYING POWER TRANSMISSION
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application June 14, 1951, Serial No. 231,613
16 Claims. (Cl. 74—230.17)



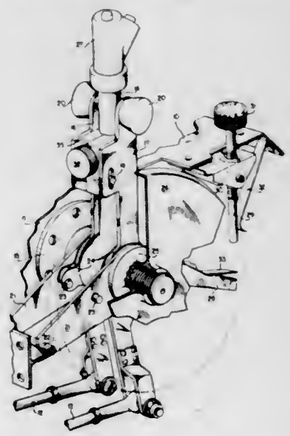
1. In a device of the class described, a main frame, a first shaft, means supported from said frame and providing a journal mounting for said first shaft, a second shaft, means supported from said frame and providing a journal mounting for one end of said second shaft upon an axis substantially parallel with the axis of said first shaft, said main frame providing a support intermediate said shaft axes and substantially parallel therewith, an auxiliary frame removably carried by said support, said auxiliary frame providing a journal mounting for the other end of said second shaft, an expansible V-pulley mounted on said first shaft and comprising a coned disc fixed to said first shaft and a mating coned disc supported for movement along the axis of said first shaft toward and away from its fellow, a screw shaft journalled in said auxiliary frame, a nut threadedly mounted on said screw shaft and held against rotation therewith, an actuator supported from said auxiliary frame and providing an operative connection between said nut and said mating coned disc, an expansible V-pulley mounted on said second shaft, and an edge-active belt providing a driving connection between said pulleys.

2,613,546
DRIVE CHAINS AND CHAIN DRIVES ADAPTED TO USE SAID CHAINS
Aage Erland Jorgensen, Jersey City, N. J.
Application April 4, 1950, Serial No. 153,880
19 Claims. (Cl. 74—246)



1. A driving chain comprising elements arranged in succession, means including pivots connecting successive elements and projecting beyond the sides thereof, rollers on the projecting ends of said pivots, alternate pivots in a straight stretch of the chain being parallel in a plane and the remaining pivots in said stretch being parallel in a plane perpendicular to the plane of said alternate pivots.

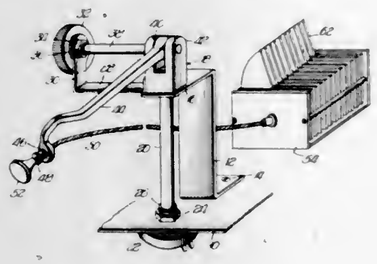
2,613,547
DUAL THROTTLE CONTROL
Charles D. Stewart, Glendale, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application December 7, 1948, Serial No. 63,988
3 Claims. (Cl. 74—471)



1. A throttle control arranged to permit both simultaneous and separate control of separate power plants comprising a pivoted master control

lever, pivoted slave control levers disposed on either side of said master lever, and operable independently thereof a shaft on which said master and slave levers pivot, said shaft having a flange on one end stationary friction members disposed on both sides of each slave lever, and adjustable handwheel threaded on the free end of said shaft and arranged to compress said friction members and levers together to vary the frictional resistance of said levers to pivotal movement, and means releasably engaging each of said slave levers to said master lever for the operation of either or both of said slave levers by said master lever.

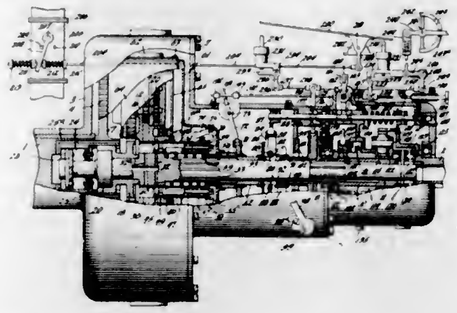
2,613,548
RADIO CONTROL DEVICE
James N. Davis, Crystal Lake, Ill.
Application February 10, 1949, Serial No. 75,546
5 Claims. (Cl. 74—471)



1. A control apparatus for a radio receiver or the like, having a plurality of control devices, comprising a fixed support member, a base member rotatably mounted thereon, a shaft journalled in said base member so as to be rotatable in a plane substantially parallel to the plane of rotation of said base member, a control arm for rotating said shaft, said control arm being movable in a plane substantially normal to the plane of rotation of said rotatable base member, a control shaft secured to the pivoted end of said control arm so as to be rotated by pivotal movement of the latter, an electronic control device fixed to said rotatable base member operatively connected to said control shaft, a second control shaft secured to said rotatable base member and adapted to be rotated by movement thereof, a second electronic control device mounted in fixed relation to said support member, said second control shaft being operatively connected thereto, a control member rotatably mounted on the free end of said control arm, and a flexible shaft secured thereto adapted to transmit rotary motion of said control member to a third electronic control device.

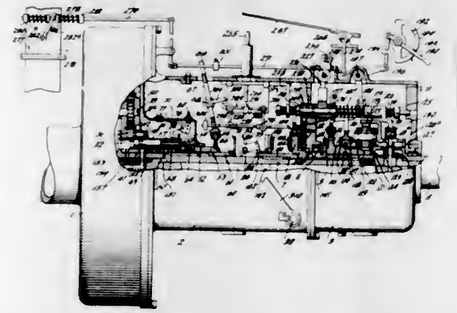
2,613,549
POWER TRANSMISSION MECHANISM
Edward J. Thurber, New Orleans, La., assignor to The Thurber Corporation, New Orleans, La., a corporation of Louisiana
Application June 12, 1945. Serial No. 599,101
61 Claims. (Cl. 74—472)

1. A power transmission mechanism comprising a driving element, a rotor carrying hydraulic means driven by the driving element for circulating a fluid and thereby transmitting torque from the driving means to the rotor, means controlling the circulation of the fluid, means responsive to the speed of rotation of the driving element for operating said controlling means and having means for discontinuing its action on said controlling means to only partially obstruct said circulation of fluid, and means responsive to the



speed of rotation of the rotor for operating said controlling means to further obstruct said circulation of fluid.

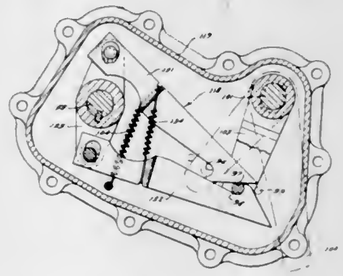
2,613,550
POWER TRANSMISSION MECHANISM
Edward J. Thurber, New Orleans, La., assignor to The Thurber Corporation, New Orleans, La., a corporation of Louisiana
Application April 30, 1946, Serial No. 666,064
59 Claims. (Cl. 74—472)



1. A power transmission mechanism comprising driving and driven elements, means including a torque controlling element interposed between said elements for transmitting torque from the driving to the driven element, a master governor responsive to the speed of the driven element and operative upon said torque controlling element to increase the torque transmitted between said elements, an auxiliary governor responsive to the speed of the driving element and operative upon said torque controlling element to reduce the torque transmitted between said elements in opposition to the influence of the master governor, and means for restoring the master governor from speed operated condition to inactive condition.

2,613,551
MOTION CONVERTING APPARATUS
Maurice C. Robinson, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 19, 1947, Serial No. 755,612
3 Claims. (Cl. 74—473)

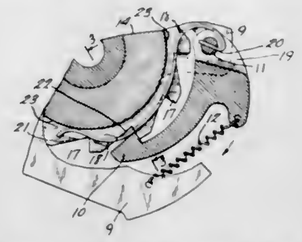
1. In a motor vehicle a variable speed transmission, a movable element associated with said transmission and adapted to effect a first speed ratio drive when moved in a first direction and to effect a second speed ratio drive when moved in a second direction, a movable member, a first means to move said member through a predetermined cycle including movement in a first direction and return in response to selected vehicle operating conditions, a second means to cause successive cycles of movement of said member to alternately move said element in said first direction and in said second direction, said second means comprising a lever fulcrumed at its intermediate portion, a first finger element rotatably mounted on said lever on one side of said fulcrum and having a hook shaped end portion, a second finger element rotatably mounted on said lever on the other side of said fulcrum and having a hook shaped end portion, an abutment carried by said movable member and adapted to be received by the hook of the end portion of said first finger to provide an oper-



able connection between said first finger and said movable member during movement of said movable member in its first direction to thereby move said lever and said movable element in a first direction to effect said first speed ratio drive and to provide a releasable connection as said member returns, said abutment cooperating with the hook of the end portion of said second finger element to provide an operable connection between said second finger and said movable member during the next successive movement of said movable member in its first direction and to provide a releasable connection as said member returns, spring means urging said fingers together and each of said hooks having a predetermined external contour adapted to serve as a cam integral with the finger to engage the other finger and guide the relative movements thereof to prevent one of said fingers from obstructing the other when being moved by said abutment.

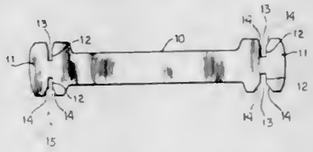
2,613,552
ELECTRICAL IMPULSE TRANSMITTER
William T. Weidenman, Spring Valley, N. Y., assignor to Telephonics Corporation, Huntington, N. Y., a corporation of New York
Application July 28, 1950, Serial No. 176,327
12 Claims. (Cl. 74—576)

1. In an electrical impulse transmitter having a ratchet wheel provided with teeth around its periphery, a pivoted pawl adapted to engage the toothed periphery of said ratchet wheel, and means for rotating said pawl rearwardly over said ratchet wheel teeth and then to engage a tooth thereof to move the ratchet wheel with the pawl, the combination of a member carried by said pawl rotating means and moving therewith, and cushioning means mounted on said member and interposed between said pawl and the bottoms of the notches of said ratchet wheel in radially overlapping relation to the axial surfaces of the ratchet wheel teeth and the notches between them, whereby said cushioning means



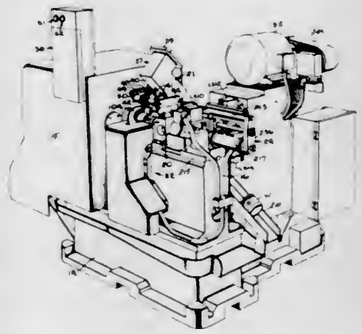
intervenes between the pawl and the bottom of a corresponding notch of the ratchet wheel upon impact by the pawl to thereby deaden the impact sound.

2,613,553
SAW SETTING TOOL
Elmer G. Fippinger, Forest Park, Ill.
Application May 24, 1951, Serial No. 228,016
1 Claim. (Cl. 76—71)



A saw setting tool comprising an elongated handle portion having at opposite end portions integrally formed enlarged head portions, each of said head portions having formed therein opposed slots of different widths with the entrance of each slot tapered to provide limiting edges adapted to bear against the lateral side of the tooth of a saw projected in the slot whereby to determine the lateral bend of such tooth, the tapered entrances of said slots varying in the angle of taper in proportion to the widths of said slots.

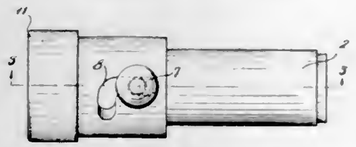
2,613,554
BORING MACHINE
Guenther Brinkmann, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Application June 27, 1947, Serial No. 757,629
12 Claims. (Cl. 77—3)



1. In a piston pin hole boring machine, in combination, a supporting frame, a work fixture mounted on said frame and having a bore therein

adapted to receive a piston endwise with a snug, sliding fit in boring position, a support at one side of said fixture adapted to receive a piston in an initial position displaced from and in approximate axial alinement with said bore, a carrier mounted for reciprocation on said frame on the side of said support remote from said fixture and movable upon reciprocation thereof toward and away from said fixture, the end of said carrier adjacent said fixture having a disengageable clamp head for receiving and externally gripping the crown end of the piston when located in said support, means separate from said work fixture and carrier for rotating and transaxially shifting the piston while in said support to locate the piston radially and in axial alignment with said fixture bore, power means for actuating said clamp head to grip the piston in located position, and power means for actuating said carrier to advance the located piston from said support axially into said fixture bore, and electrical control means for effecting automatic operation of said power means in predetermined timed sequence to carry out the aforesaid functions in the order stated.

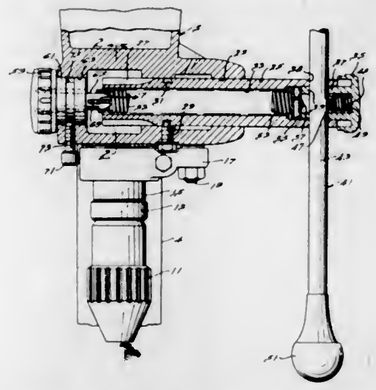
2,613,555
DRILLING AND CENTERING ATTACHMENT FOR TURRET LATHES
Otto Schultz, Cleveland, Ohio, assignor to Schultz Manufacturing Company, Cleveland, Ohio, a partnership
Application December 24, 1949, Serial No. 135,019
2 Claims. (Cl. 77—18)



1. A center drill attachment for a turret lathe, comprising a housing adapted for attachment in the turret, said housing having an open forward end for projection of a tool end therethrough into operative position, a tool holder mounted within said housing and adapted for adjustment longitudinally and rotatably therewithin, a tool within the forward end of said holder, a handle extending radially through said holder and an opening in said housing for operative holding engagement with the rear end portion of said tool, said opening in said housing being of angular form and including a longitudinally extending portion and a circumferentially extending portion at the forward end thereof, the longitudinal extent of said opening corresponding to the extent of adjustment of said tool from withdrawn inactive position to extended active position, and said circumferentially extending portion of said opening being adapted to hold the handle in forward position corresponding to active position of the tool.

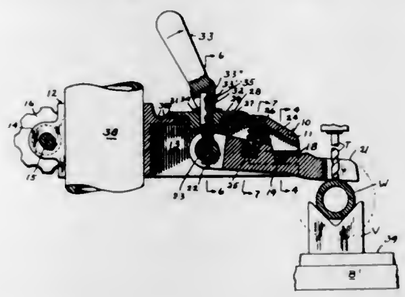
2,613,556
DRILL PRESS
Walter L. Gaskell, Ypsilanti, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application March 24, 1947, Serial No 736,795
5 Claims. (Cl. 77—36)

1. In a drill press, a head, a quill mounted for vertical movement in said head and having a longitudinally extending rack formed thereon, a hollow pinion shaft rotatably mounted in said head in transverse relation to said quill and having teeth formed on one end thereof operatively meshing with said rack, a knob having a hollow cylindrical shank portion slidably received in the outer end of said hollow pinion shaft, said shaft and knob shank portion having aligned transverse apertures therethrough, a hand lever slidably received in said apertures and locking said knob to said shaft, a coil spring disposed in said



hollow pinion shaft, a pin secured in the inner end of said knob shank portion having one end of said coil spring secured thereto, a second knob rotatably mounted in said head adjacent the opposite end of said hollow pinion shaft having a forked inner end received in said hollow pinion shaft and receiving the opposite end of said coil spring therein for adjusting the torsional value thereof, and means for holding said knob in its adjusted position.

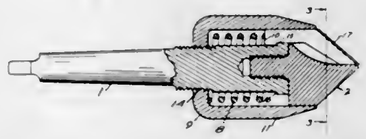
2,613,557
WORK HOLDER
Lowell L. Pricer, Hayward, Calif.
Application February 28, 1949, Serial No. 78,829
7 Claims. (Cl. 77—63)



1. In a device for clampedly holding a workpiece against a bed-plate, an arm fixedly related to the bed-plate in spaced opposed relation thereto, a clamping finger directly and intermediately hinged to the arm and having a work-engaging forward end swingable toward and from the bed-plate and having its rearward end disposed beneath the arm, a wristpin journalled in the rearward end of the finger in fixed parallel relation to the axis of hinging of the finger and providing a transverse threaded bore, a control member threadedly engaged in the threaded bore of the wristpin and operative in tension between the top of the arm and the wristpin to clampedly

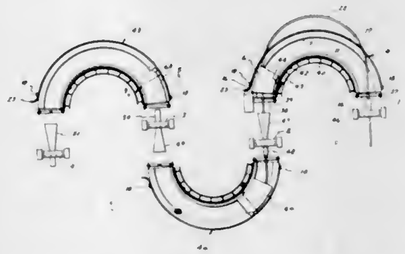
engage the forward end of the finger with a work-piece disposed between it and the bed-plate, and means to reciprocate said control member in working and return strokes thereof.

2,613,558
CHATTERLESS COUNTERSINK
Gordon C. Swenson, Erie, Pa.
Application October 14, 1947, Serial No. 779,725
1 Claim. (Cl. 77—73.5)



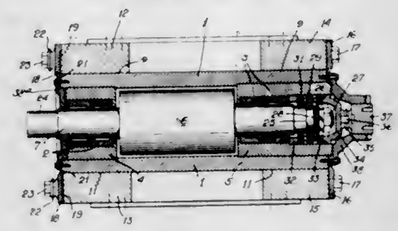
A rotatable countersink having work engaging cutting edges shaped to produce the desired countersink contour, axial slots between the cutting edges, pressure members in the slots having work engaging bearing surfaces conforming to the contour of the cutting edges, a sleeve holding the pressure members in the slots, and a spring within the sleeve urging the pressure members axially beyond the cutting edges.

2,613,559
APPARATUS FOR GUIDING HOT METAL STOCK
Joseph Zublenko, Cleveland, Ohio
Application April 12, 1949, Serial No. 86,873
10 Claims. (Cl. 80—52)



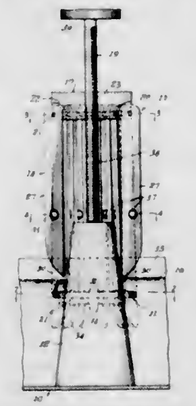
1. Mechanism for guiding the free end and bending metal stock moving longitudinally in one direction to direct the continued movement of the free end of the stock in another direction, comprising a curved track having a first end arranged in proximity to the path of the longitudinally moving stock and a second end directed toward said other direction, a carriage having a curved side wall, an abutment at one end, and being open at its other end to receive the free end of said stock, said carriage being mounted on said track for free movement thereon, means urging said carriage to the first end of said track to position its open end in the path of the longitudinally moving stock, whereby the moving stock will project its free end into said carriage, engage said curved side wall and said abutment and move said carriage around said track to thereby bend said stock and deflect its free end portion toward the other direction, and said abutment being releasable when said carriage reaches the second end of said track to allow the free end of said stock to pass through said carriage and proceed in the other direction.

2,613,560
WIRE ROLLING MILL
Jean Rozières, Saint-Cloud, France
Application December 3, 1946, Serial No. 713,737
In France September 17, 1946
3 Claims. (Cl. 80—55)



1. In a rolling mill having a frame with parallel columns and having working rolls journalled in needle roller bearings carried in sliding members in said frame, a bearing construction comprising, a block having two parallel lateral faces, said block being slidable along said faces between said columns in a direction perpendicular to the axes of said rolls, fixed guiding slides on said columns engaging one end face of said block, second guiding slides on said columns engaging the opposite end face of said block, adjustable spring means acting on said second slides pressing the slides against said end face, bearing housings coaxially mounted in said block, said needle roller bearings being carried in said sliding members by said bearing housings and journaling the opposed necks of the working roll, a thrust bearing at one of said roller necks mounted in one of said bearing housings, said housing having an inner abutment engaging said thrust bearing, one race of said thrust bearing being fixed to said roller neck, and spring means acting on said thrust bearing to press the same against said abutment, said two spring means acting on said slides and said thrust bearing being of sufficient strength to counteract any normal lateral thrust on said working roll.

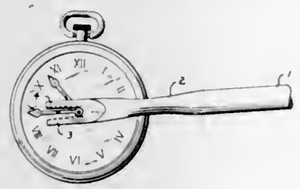
2,613,561
EYEGLASS RIM-STRETCHING APPARATUS
John F. Schwebel, Sr., Van Nuys, Calif.
Application January 4, 1951, Serial No. 204,332
2 Claims. (Cl. 81—3.5)



1. An ophthalmic rim-stretching device adapted for use in cooperation with a frusto-conical member, said device comprising a disc having

a threaded aperture therein, a set of elongated fingers arranged around the periphery of the disc and hinged thereto, spring means intermediate the ends of the fingers connecting the same to contract toward each other, a screw stem in said aperture and extending generally centrally among the fingers, an end of said stem being adapted to engage the smaller end of said frusto-conical member and to be turned relative to said disc and fingers to move said disc and fingers longitudinally of the stem and of the frusto-conical member, a cam face provided on the inwardly-facing edge of a majority of said fingers to cam over an ophthalmic rim strung on the frusto-conical member, and a downwardly directed hook provided on said inwardly-facing edge of each of said fingers and above each said surface to hook onto said rim to force said rim in a direction toward the larger diameter of said frusto-conical member and to stretch said rim accordingly as the disc and fingers are moved in said direction.

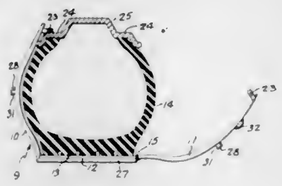
2,613,562
WATCH HAND PRESSING TOOL
John W. Clark, Buffalo, N. Y.
Application May 27, 1947, Serial No. 750,854
3 Claims. (Cl. 81—6)



1. A watch hand pressing tool, wherein the tool in service is removably seated on the top of the hub of the positioned hand and subjected to pressure applied directly downward onto the top of the hand hub to accurately anchor the hand hub to its pin arbor, said tool comprising a handle portion and a jaw portion with the jaw portion lowered relative to the handle portion to form a foot zone having its lower face curved in the direction of length of such jaw portion, said jaw portion being bifurcated from its free end inward for a portion of its length, the lower zone of the opposing walls of the bifurcation being of increased spacing width to thereby provide a divided pressing face within the bifurcated zone, said pressing face extending beyond the closed end of the bifurcation with the extended portion continuous in width.

2,613,563
HINGED CLAMP FOR APPLYING ANTISKID CHAINS
Isadore Shapiro, Danbury, Conn.
Application December 31, 1946, Serial No. 719,400
3 Claims. (Cl. 81—15.8)

1. A device for applying anti-skid chains inciuding side chains, comprising a substantially U-shaped clamp including spaced curved side arms adapted to embrace the opposite sides of a tire and a connecting bar joining their lower ends and adapted to extend across the tread of the tire, said connecting bar being provided with a longitudinal rib on its under side tapered in cross section to provide an increased grip on the road surface, said rib terminating short of one end of the bar to provide a recess, a hinge connection for one of said arms to the connecting bar at said recess arranged to permit the arm to swing laterally toward and from the tire between closed tire clamping position and open position to release it, a lug on said hinged arm provided with surfaces arranged in different



planes at an angle to each other, a heavy flat spring mounted on the connecting bar in said recess and cooperating with said surfaces to retain the hinged arm in the closed and open positions, and means on the side arms for connecting links of the side chains thereto.

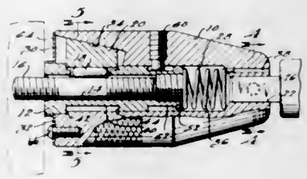
2,613,564
ADJUSTABLE AND REVERSIBLE STUD REMOVERS AND RESETTERS
George M. Walraven and Raymond G. Knudsen, Kenosha, Wis., assignors to Snap-On Tools Corporation, Kenosha, Wis., a corporation of Delaware
Application January 3, 1949, Serial No. 69,008
4 Claims. (Cl. 81—53)



1. In a stud remover and resetter, the combination with a housing having an opening therein to receive a stud for gripping engagement, of a plurality of stud engaging grippers movably mounted in said housing for displacement along an arc substantially intersected by the common housing opening and gripper radii, an external ring rotatively mounted on said housing, gripper actuating means including intermeshing gear teeth elements operatively connected with said external ring for shifting said grippers to one or the other side of said gripper radii to receive a stud for gripping on one or the other side thereof for removal or resetting purposes, and means for normally urging said grippers to assume an initial inoperative position in alignment with said common radii.

2,613,565
STUD DRIVER AND PULLER
Enos P. Saunders, Berkley, Mich.
Application February 3, 1949, Serial No. 74,412
7 Claims. (Cl. 81—53)

1. A chuck comprising an operating member having a central cavity extending axially thereof, said member being shaped to define a plurality of radially outwardly extending cavity portions the outer wall portions of which define cam surfaces inclined relative to the axis of said member, a cage mounted in said cavity for rotary and axial movement relative to said member and having a central bore and a plurality of apertures opening radially therethrough, a plurality of jaw elements mounted in said apertures and adapted to project into but not pass into said bore, a plurality of cam elements individual to and mounted in said cavity portions and having outer surfaces adapted to slide along said cam surfaces, said cam surfaces being adapted to co-operate with said cam



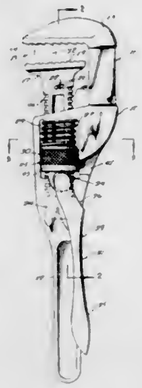
elements upon movement of said elements axially inwardly of said member to cam said elements radially inwardly, the inner surfaces of said cam elements being adapted to engage said jaw elements and having second cam surfaces adapted, upon rotation of said operating member relative to said cage, to cam said jaw elements inwardly.

2,613,566
VISE WRENCH
Everett M. Hadley, Riverside, Calif.
Application November 5, 1948, Serial No. 58,553
7 Claims. (Cl. 81—84)



1. In a wrench the combination of: a first handle; a fixed jaw mounted in one end of said first handle; a second handle pivotally connected to said first handle; a movable jaw mounted in one end of said second handle adapted to coact with said fixed jaw to secure an object therebetween; a toggle joint having one end mounted in said second handle adapted to be actuated by said movable jaw; and locking means mounted in said first and second handles, said locking means including a movable locking element mounted in said second handle having said toggle joint connected thereto, said locking element being adapted to be actuated by said toggle joint to prevent relative movement between said first and second handles.

2,613,567
HANDGRIP WRENCH WITH A LEVER AND CAM FEED SLIDING JAW
Frank A. Tenerowicz and Louis Bortolotti, Lackawanna, N. Y.
Application February 7, 1950, Serial No. 142,848
2 Claims. (Cl. 81—87)

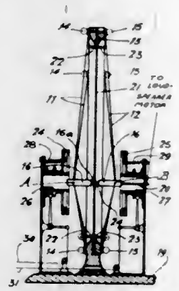


1. In a hand wrench, a head including opposed spaced surfaces, one of said surfaces being provided with a plurality of spaced gripping teeth and forming a fixed jaw, there being a longitudinally extending slot in said head having one end adjacent the other one of said surfaces, said head being also provided with a longitudinally arranged well having its open end in communication with the other end of said slot, an elongated threaded shank positioned longitudinally of said head and extending through said other opposed surface and said slot and supported in said head for reciprocatory movement with respect to said fixed jaw, one end of said shank being located between said opposed surfaces and the other end of said shank being slidably receivable within said well, a gripping head connected to said one end of said shank for sliding movement in an upwardly inclined plane with respect to said fixed jaw, a feed nut arranged within said slot and circumposed about and in threaded engagement with said shank, a coil spring circumposed about said shank and having one end bearing against said one end of said slot and having the other end bearing against said feed nut, a thrust washer circumposed about said shank between said feed nut and said other end of said slot, a U-shaped yoke arranged contiguous to said thrust washer and having its legs receiving therebetween said shank and connected to said head for rocking movement about an axis transverse of said shank, and a cam on the inner face of each of said legs and having a portion projecting beyond the free end thereof, the projecting portions of said cams bearing against said thrust washer.

2,613,568
MUSICAL SOUND GENERATING DEVICE
Maurice Martenot, Neuilly-sur-Seine, France
Application April 5, 1948, Serial No. 19,124
In France April 15, 1947
7 Claims. (Cl. 84—1.06)

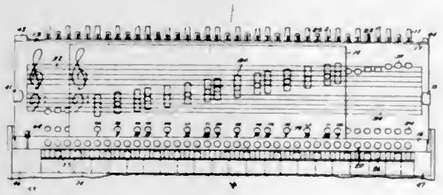
1. An electrical sound generating device particularly intended for electric musical instruments and comprising a vibrating member with front and rear faces, two sets of vibrating strings arranged respectively over said faces, said vibrating member thereby being located between said sets of strings, a loudspeaker arranged to

actuate said strings, and said strings being in vibratious transmitting relationship with said



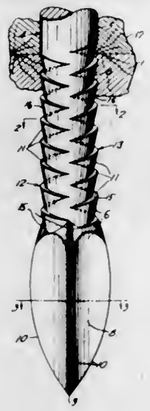
vibrating member to impart vibratory motion to said member.

2,613,569
MECHANISM FOR TEACHING THE PIANO
Joseph H. Williams, Alameda, Calif.
Application March 1, 1948, Serial No. 12,357
3 Claims. (Cl. 84—471)



1. In a key indicating frame for piano instruction, the combination which comprises a frame having horizontally disposed parallel side bars and vertically positioned end bars extended across the keyboard of a piano, vertically aligned pins with heads thereon positioned at equally spaced points on the said horizontally disposed side bars and centered on the keys of the keyboard of a piano, parallel sliding bars with tapered ends and having elongated slots extended through the face thereof adjacent the said ends and positioned on the pins of the horizontally disposed bars with the pins in the slots thereof and with the head of the pins extended on the faces of the bars, a chart having a staff thereon with an upwardly sloping row of openings positioned on and between the lines of the bass and treble clefs of the staff and a horizontally disposed row of openings spaced from the lower edge thereof, the openings of both rows spaced to correspond with the pins of the horizontally disposed bars of the frame, said sliding bars having note designations thereon positioned to register with the said upwardly sloping row of openings and having letters thereon designating the names of the keys of the piano positioned to register with the said horizontally disposed row of openings, a major scale transfer guide having vertically extended elongated openings therethrough positioned on the chart having the staff thereon and said elongated openings being positioned to correspond with the openings of the sloping row of openings of the chart, a chord guide having groups of openings therethrough corresponding with chords of musical compositions positioned against said major scale transfer guide and means mounting the frame on a piano.

2,613,570
CARPENTER'S NAIL
Edward Sokolik, New Brighton, Minn.
Original application March 29, 1946, Serial No. 658,282. Divided and this application February 18, 1950, Serial No. 145,064
3 Claims. (Cl. 85—30)



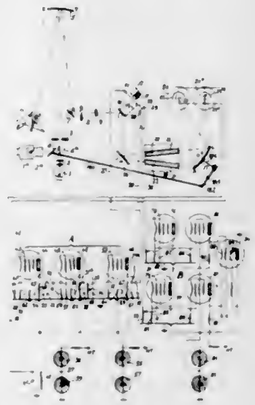
1. In combination a member, a support member for said member, a uniformly cylindrical nail shank embodying a smooth upper portion embedded in the member and having an anchor head bearing against the outer face of said member; and a lower portion having a penetrating end-portion and serrates extending from the smooth portion substantially to said penetrating end-portion and together therewith embedded and anchored in the support member, said penetrating end-portion embodying four radially equally spaced-apart fiber cutting fins merging into the tip of said penetrating end-portion and extending, generally convexly arcuate, towards the serrates of said lower portion, adapted to cut when the nail shank is driven or withdrawn, each cutting fin being of a length substantially thrice the diameter of the shank, and each diametrically opposite pair of the cutting fins having a maximum transverse diameter from the edge of one cutting fin to the edge of the other, substantially equal to the diagonal of a square whose each side is equal to the diameter of the shank; whereby the cutting fins sever a mass of fibers of a minimum width corresponding to the diameter of the shank, irrespective of the radial relationship of the cutting fins to the grain of the fibers, thereby preventing splitting of the mass of fibers of which each member is composed and simultaneously causing the severed fiber end-portions to abut against and anchor the serrated portion in the support member, the surface of said penetrating point extending substantially concavely between and connecting each two adjacent fins, thereby providing channeled slideways for the severed fiber end-portions, whereby penetration by said penetrating end-portion is facilitated and prevention of splitting of the mass of fibers contributed to in cooperation with the cutting fins; the serrates being arranged and connected in series in two diametrically opposite semi-circumferential columns, each serrate including a transversely disposed, crescent-shaped, transverse anchor surface, and a longer surface depending from the outer edge of the crescent-shaped anchor surface to the inner edge of the subject anchor surface, said longer surface being of a length nominally five times the maximum depth of the crescent-shaped surface for maximum functional efficacy, the outer margin of each said crescent-shaped anchor surface being in axial alignment with the surface of said smooth upper portion, the upper and lower portions of the shank cooperating in nailing together the respective members.

2,613,571
REMOVABLE SPACER
Nathan L. Herman, Cleveland, Ohio, assignor to Poe Machine and Engineering Company, Inc., New Wilmington, Pa.
Application May 10, 1949, Serial No. 92,446
1 Claim. (Cl. 85—51)



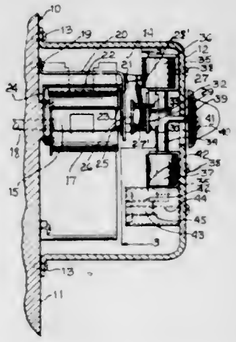
A removable spacer assembly comprising a pair of flat surfaced uniform thickness semi-circular members of 180° in extent, said members being positioned with their ends abutted, protruding means on one side of said members, at least one of said members having a key receiving slot provided therein intermediate the ends thereof, said members having recessed means in the other side face thereof adapted to receive protruding means on an adjacent member when positioned thereagainst, said protruding means and said recessed means being accurately positioned circumferentially with relation to said key receiving slot to facilitate engaging protruding means on one pair of members with recessed means in any adjacent member.

2,613,572
APPARATUS FOR SPECTROPHOTOMETRY
Paul Charles Mathieu, Epinay-sur-Orge, France, assignor to Etablissements Jouan, Paris, France, a French body corporate
Application July 10, 1951, Serial No. 235,977
In France July 24, 1950
5 Claims. (Cl. 88—14)



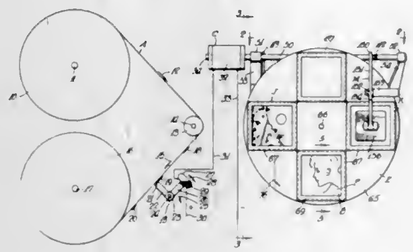
1. A spectrophotometric device, which comprises: two luminous sources adapted to emit light of overlapping spectral ranges, said ranges extending respectively to the infra-red and to the ultra-violet range; an optical device adapted to receive light from said sources and to produce from said light a luminous beam; primary oscillating reflecting means adapted to receive said beam and to reflect it alternately along two separate paths; optical reflecting means adapted to receive said beam along both said paths and to reflect same convergingly onto at least one single point; storage means disposed on at least one of said paths between said primary oscillating reflecting means and said optical reflecting means, and adapted to hold a subtance to be tested; two photoelectric cells, each having a spectral range corresponding to the spectral range of one of said luminous sources; each cell having its anode at one of said single points; electronic amplifying means adapted to amplify the electric tensions created in said cells by said beams; tension measuring means adapted to permit a comparison of said amplified tensions; and automatic selectivity means cooperating with, and disposed between, said luminous sources and said cells, and adapted to cause selectively the beam from one of said sources to reach the cell of corresponding spectral range.

2,613,573
MECHANICAL DOWSER FOR MOTION-PICTURE PROJECTING APPARATUS
Arthur F. Lindberg, Chicago, Ill., assignor to De Vry Corporation, Chicago, Ill., a corporation of Illinois
Application November 30, 1950, Serial No. 198,401
1 Claim. (Cl. 88—16)



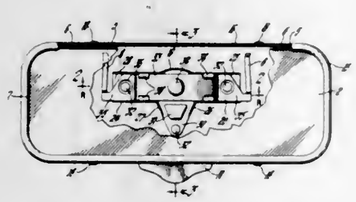
A dowser mechanism for motion picture projecting apparatuses in which there is a rotatable barrel shutter, a dowser plate rotatable circumferentially with respect to the barrel shutter to a position to obstruct light therethrough, means for rotating said dowser plate circumferentially with respect to said shutter, said means including a pair of spaced electromagnetic coils arranged in confronting relation with respect to each other, a plunger common to both coils, said plunger having a slot formed therein, a finger knob, linkage connection between the finger knob and the dowser plate, said linkage connection having a connecting pin engaging the slot of said plunger, switch means actuated by said plunger, and counter-balancing spring means acting on said linkage connection for yieldably holding said dowser plate in either of two positions with respect to said shutter.

2,613,574
SLIDE PROJECTOR-SOUND SYNCHRONIZATION SYSTEM
Edward Moss, New York, N. Y.
Application September 27, 1949, Serial No. 118,163
7 Claims. (Cl. 88—28)



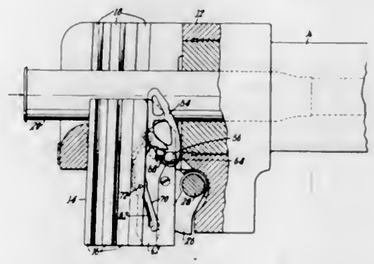
1. A synchronized film slide and sound projector system comprising a carrier for the slides to move them to and from projection position, means to insert and remove slides from said carrier, a sound track having spaced actuating elements, a motor actuated by said actuating elements and in turn actuating said carrier and means, and a reciprocating bar having a central rack for causing intermittent movement of said carrier and having cams to actuate said inserting and removing means.

2,613,575
REARVIEW MIRROR ASSEMBLY AND MOUNTING MEANS
Robert N. Falge, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 25, 1950, Serial No. 151,919
3 Claims. (Cl. 88—98)



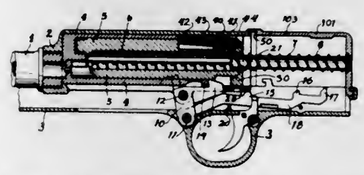
3. In a mirror assembly, a housing, a mirror suspended within the housing and tiltable to different angular positions therein about one side edge of the mirror, a pivot point on the housing for said mirror edge, means for positioning the mirror edge opposite said pivot point including a pair of spring arms resiliently pressing against the back of the mirror adjacent said mirror edge, a stiffener plate secured to the inner wall of the housing rearwardly of the mirror and having a ball seating portion, a bowed spring integrally connecting said spring arms and having a ball seating portion opposite the ball seating portion of the stiffener plate, a supporting ball between said ball seating portions, said stiffener plate having portions embracing the spring laterally of said ball seating portions and forcing the bearing portion of the spring into frictional engagement with the ball.

2,613,576
WEAR PLATE FOR THE BREECH MECHANISM OF GUNS
Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 30, 1944, Serial No. 565,876
8 Claims. (Cl. 89—24)



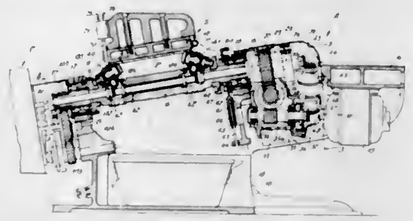
2. In a gun of the type having a vertically slidable wedge-type breechblock, extractors for removing an empty shell case from the gun upon opening of the breechblock and for locking the breechblock open, cam grooves in the sides of the breechblock, and inwardly extending lugs carried by the extractors received in said cam grooves; that improvement which comprises movable plates forming the rearward walls of said cam grooves, and means for moving the upper ends of the plates rearwardly toward inoperative positions to widen the upper portions of the cam grooves when the extractors move to their rearward positions in response to opening of the breechblock.

2,613,577
AUTOMATIC SEAR FOR AUTOMATIC FIREARMS
Paul de Kiraly, Ciudad Trujillo, Dominican Republic, assignor to The Hispaniola Corporation (La Hispaniola C. P. A.), Ciudad Trujillo, Dominican Republic, a firm of Dominican Republic
Application September 22, 1949, Serial No. 117,155
In Switzerland September 30, 1948
1 Claim. (Cl. 89—149)



In a light automatic fire arm comprising a frame; a breech-bolt and striker mechanism, the recoil of which is controlled by the pressure of the firing gases, in combination: a barrel having a hollow rear extension movably supported by said frame for a short recoil movement therein; said barrel extension comprising a longitudinal straight guiding wall and a cam-shaped rear edge; a rear casing fastened to the frame and having a longitudinal inner straight wall substantially in the prolongation of said guiding wall of the barrel extension; an elongated recessed straight breech-bolt slidably located within said barrel extension; a striker in the form of an elongated straight body carrying a firing pin, the fore part of said striker being adapted to slide in said recessed breech-bolt and the rear part adapted to slide along said inner straight wall of the rear casing, said striker being provided with a retaining shoulder; means for connecting said breech-bolt and striker to each other substantially during the recoil; means for releasing said breech-bolt from said striker substantially at the end of said recoil; a recoil spring inserted between said rear casing and said breech-bolt; a firing spring inserted between said casing and striker; a toothed sear pivoted to the frame and comprising at least a rearmost tooth and a protrusion, said protrusion being located in the path of said cam-shaped edge; said rearmost tooth being adapted to contact said retaining shoulder of the striker in order to catch the latter at the beginning of the counter-recoil movement, so that the breech-bolt alone is able to move forwardly under the action of said recoil spring, until said cam-shaped rear edge of the barrel extension strikes said protrusion, thus freeing the striker itself for the firing forward movement, the main effective cross sections and relative longitudinal dimensions of said breech-bolt and said striker being so determined that the weight of this latter be at least equal to, up to a multiple of, the weight of the breech-bolt.

2,613,578
MACHINE FOR MILLING POCKETS IN CURVED STEREOTYPE PLATES
Oscar C. Roesen, Scarsdale, N. Y., assignor to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia
Application May 29, 1951, Serial No. 228,924
8 Claims. (Cl. 90—15)

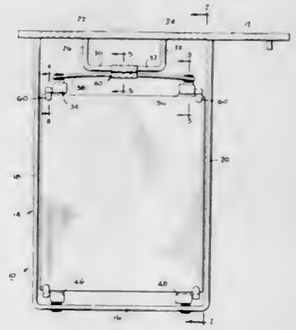


6. In a machine for milling pockets in the interior surfaces of curved stereotype plates adjacent the curved edges thereof, the combination with a plate-supporting arch and a rotary shaft extending axially of said arch of a rotary cutter arm extending longitudinally of said arch adjacent one end thereof, means for maintaining a stereotype plate in said supporting arch, means pivotally supporting said cutter arm to swing in a plane extending longitudinally of said arch, a cutter mounted on said cutter arm for rotation and movable thereby toward and away from said arch, means for rocking said cutter arm to move said cutter toward and away from said arch, means for rotating said cutter arm, and means responsive to said means for maintaining a stereotype plate in said arch, when a plate is supported in said arch, for causing the operation of said means for rotating said cutter arm and cutter.

2,613,579
SIZING AND BLEACHING A WET WEB
Robert L. McEwen, Williamsville, N. Y., assignor to Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y.
No Drawing. Application August 27, 1947, Serial No. 770,955
3 Claims. (Cl. 92—40)

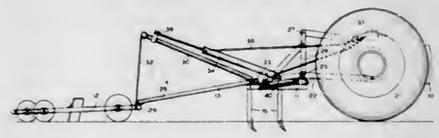
1. The method of sizing and bleaching a sheet of paper consisting in applying to a formed paper sheet containing at least about 10% moisture, an aqueous solution consisting essentially of hydrogen peroxide made alkaline with a phosphate of sodium and a dispersion of wax in amount to add about $\frac{1}{10}$% to 5% wax, and from 0.5% to 10% hydrogen peroxide based on the weight of dry paper and thereafter passing the so treated sheet over heated drying rolls to dry the same, whereby penetration of said wax below the surface of the paper will occur without causing the surface to be ink-resistant.

2,613,580
FILM HOLDER
Harry S. Wolf, Brooklyn, N. Y.
Application November 17, 1949, Serial No. 127,882
1 Claim. (Cl. 95—100)



A film holder comprising a frame support bar, a one-piece stiff hollow frame of rectangular shape including a stiff bottom bar, stiff side bars at the ends of the bottom bar, branches extending inwardly from the side bars and a U-shaped clip support, the upper ends of the arms of said clip support being in one piece with the inner ends of the branches, said support extending downwardly toward the bottom bar of the frame, means to connect said branches to said support bar, an elongated resilient element, means to connect said element to the base of the U-shaped clip support, said last-named means comprising a pair of integrally connected sleeves one of which encircles said element and the other of which encircles the base of the clip support, an upper pair of clips connected to said element adjacent the ends thereof and a lower pair of clips connected to the bottom bar and vertically registered with the upper clips.

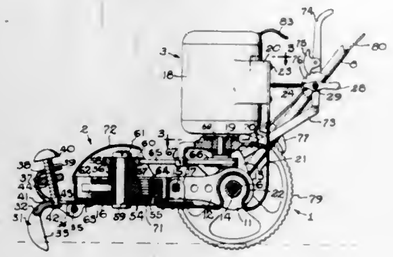
2,613,581
SOIL MIXING ATTACHMENT FOR POWER TRACTORS
Paul Richard Pretzer, Bratenahl, Ohio
Application May 26, 1948, Serial No. 29,395
2 Claims. (Cl. 97—6)



2. Agricultural apparatus of the character described, comprising the combination with a tractor provided with pivoted upper compression and lower tension links and operating means therefor of a plow member pivotally connected to said

links on a pair of spaced horizontal transverse axes, a trailing harrow member, an elevator intervening between said members and pivotally connected to each on respectively different horizontal transverse axes and means operatively connected to said elevator for swinging the same upwardly around the axis of its pivotal connection to the plow member, to thereby lift the harrow member into transporting position, said means being connected to the elevator member at an elevated point near its trailing end.

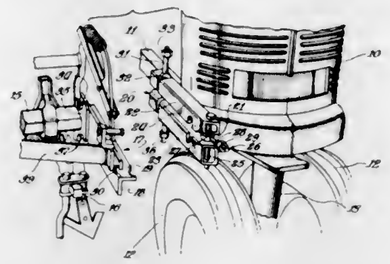
2,613,582
GARDEN TRACTOR WITH VIBRATORY TOOL
Russell P. Harshberger, Altadena, Calif.
Application February 21, 1947, Serial No. 729,997
11 Claims. (Cl. 97—34)



2. An agitating implement for earth working and the like comprising, in combination, a translatory wheeled carriage having a supporting axle, a bell-crank yoke of resilient rubber material supported for pivotal movement on said axle and having forwardly-projecting arms and upwardly-projecting arms, a suspension rod anchored in said forwardly-projecting arms, a generally horizontal frame plate pivotally supported at its rear end on said rod and projecting forwardly thereof, an operating handle pivotally supported on said axle and extending rearwardly thereof, an agitating tool mounted on the forward end of said frame and having depending working elements, a working unit mounted on said frame and including an eccentric mass revoluble about a generally vertical axis for imparting a generally lateral vibratory motion to said elements, a power plant yieldably supported by a leaf spring from said frame rearwardly of said rod and operatively connected to drive said unit, and means interconnecting said upwardly-projecting arms and said handle to predetermine the angular position of said frame plate relative to said handle about said axle.

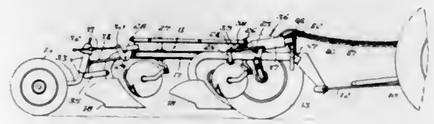
2,613,583
TRACTOR-MOUNTED CULTIVATOR
Frederick T. Blaydes and Jack L. Bauman, Canton, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application June 24, 1950, Serial No. 170,154
7 Claims. (Cl. 97—47)

1. Attaching means for mounting an implement upon the side of a tractor to extend laterally therefrom, comprising a longitudinally extending plate member affixed to the implement having a flattened vertical face and a flange projecting laterally inwardly therefrom, a vertical pivot pin carried by the tractor at the side thereof, a swinging bolt member mounted on said pin for lateral swinging about the axis thereof, an open-end recess formed in the forward edge of said plate member to receive said swinging bolt to accommodate swinging of the implement in a horizontal plane about said pin to and from a position with said plate against the side of the tractor, a releasable connection between the



tractor and the rear end of said plate member, and an open-end recess formed in said flange to receive said pin and resist displacement of said bolt from its associated slot during swinging of the implement about the axis of the pivot pin.

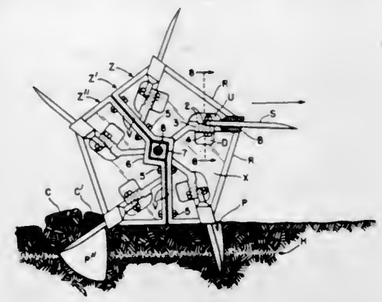
2,613,584
HYDRAULIC RAM ATTACHMENT FOR IMPLEMENTS
Wayne G. Toland, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 26, 1947, Serial No. 794,007
1 Claim. (Cl. 97—50)



In a wheel supported agricultural implement having a tool-carrying frame movable relative to the wheels between operating and transport positions, a member movable to raise and lower the frame, means for moving the movable member to raise and lower the implement comprising a hydraulic ram, separable means for connecting one end of the ram to said movable member and means for connecting the other end to the frame including a bracket mounted on the frame, a rotatable member carried by the bracket, a connecting element formed eccentrically with the rotatable member, a cooperating element carried by the ram and registrable with said connecting element for attachment thereto, and means for rotating said rotatable member to conform to the length of the ram.

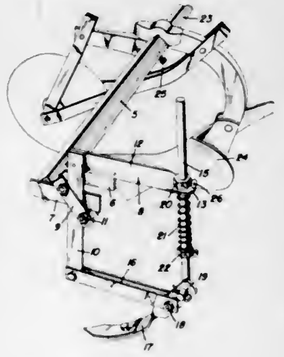
2,613,585
ROTARY SUBSOILER
Dwight L. Calkins, Spokane, Wash., assignor to Calkins Manufacturing Company, Spokane, Wash.
Application November 12, 1946, Serial No. 709,198
5 Claims. (Cl. 97—212)

2. A rotary subsoiler comprising a polygonal head having a central support for mounting a shaft by which the head is drawn over the ground and about which the head may rotate, said head having a series of chisels extending from the corners thereof, each of said chisels being disposed oblique to the radius at that corner and held at a fixed angle of approximately one hundred degrees from that side of the polygon which extends rearwardly therefrom when in its lowermost position, whereby the center of gravity



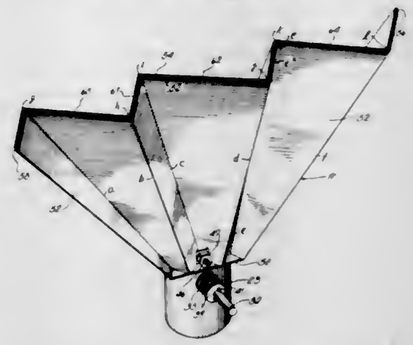
is always forward of the point of support at the time any of said chisels enter the soil, and whereby two chisels on the same head can be completely embedded in the soil at the same time, so that each chisel will exert a full depth prying action to fracture the soil and form large clods.

2,613,586
ROW MARKER
Martin E. Boenig, Woodsboro, Tex.
Application May 10, 1949, Serial No. 92,383
2 Claims. (Cl. 97—230)



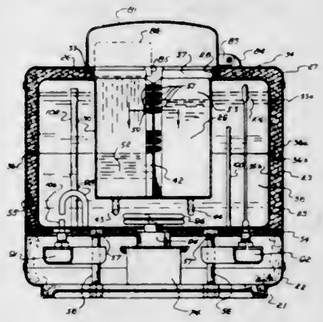
1. A row marker for attachment to a vertically swingable tractor tool bar of polygonal cross section comprising an elongated tubular member adapted to be sleeved onto said bar to swing therewith and conforming in cross section thereto to prevent rotation thereof on said bar, a marking blade, a support for said blade including a rigid upper horizontal arm and a pivoted vertically swingable lower arm of the same length as said upper arm, means to mount said support on said member in rearwardly spaced relation thereto with said arms extending rearwardly therefrom, said blade being pivoted intermediate its ends in upright position on the rear end of said lower arm, a rod vertically slidable and laterally swingable in the rear end of said upper arm and having a lower end pivoted to said blade above the pivot of the blade, and a coil spring on said rod urging the rod downwardly to hold the lower arm downwardly and the blade inclined downwardly and forwardly.

2,613,587
DIFFUSER
Calvin D. MacCracken, New Rochelle, N. Y., assignor to Jet-Heet, Inc., New York, N. Y., a corporation of New York
Application May 1, 1948, Serial No. 24,537
9 Claims. (Cl. 98—38)



1. A diffuser, for supplying to a room hot air mixed with a greater amount of cooler air drawn from the room comprising a casing having an air-intake opening for said cooler air, a nozzle adapted to be connected to a source supplying hot air at high velocity and having a long and relatively narrow sinuous or zig-zag orifice and located in said casing in cooperative relation to said air-intake opening, said casing being provided with an outlet opening through which the mixture of hot air and cooler air passes into said room.

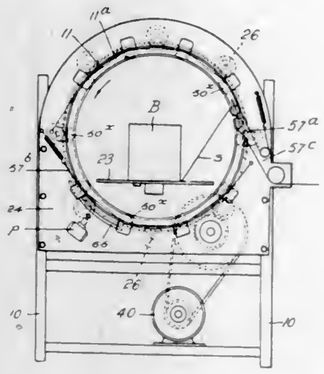
2,613,588
AUTOMATIC COFFEE MAKING AND DISPENSING APPARATUS
Donald F. Swanson, Chicago, Ill.
Application August 19, 1948, Serial No. 45,176
3 Claims. (Cl. 99—283)



1. In an automatic beverage brewing device, a hot water reservoir; a plurality of brewing tanks; a housing enclosing said tanks and said reservoir; a plurality of vertically spaced end terminals in said brewing tanks; a plurality of selector switches electrically connected to said end terminals respectively; a hot water delivery pipe connecting said reservoir and adapted to discharge into said brewing tanks; a water supply pipe connecting said reservoir and a water supply source; a solenoid operated valve in said water supply pipe; a solenoid operated valve in said hot water delivery pipe; a manually operated starting switch mounted on said beverage brewing device; a manually operated stopping switch

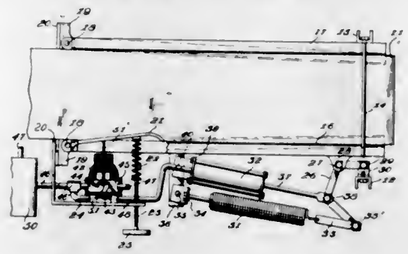
mounted on said beverage brewing device; a transformer electrically connectable to said switches and being energized by a power supply source when said starting switch is closed and being deenergized when said stop switch is closed, said transformer being connected to said hot water pipe solenoid; said transformer having a plurality of coils of varying voltage; thermostats mounted in said reservoir; circuit wires connecting said hot water pipe solenoid and said thermostats and permitting selective delivery of water to said brewing tanks only when the temperature of the water is above a predetermined degree; circuit wires connecting said transformer and said solenoid of said hot water delivery pipe for controlling the delivery of water from said reservoir to said brewing tanks only when the water is above a predetermined degree; an electronic tube electrically connected to one of said voltage transformer coils when energized, circuit wires connecting said electronic tube to said selector switches, circuit wires connecting a second of said transformer coils to said terminals and said electronic tube; a relay electrically connected to said electronic tube; the contact of rising liquid entering the brewing tank with said terminal ends causing completion of a circuit in said second mentioned transformer coil; the electrical field in said electronic tube closing said relay, and circuit means connected to said relay when energized and adapted to open said starting switch and circuit wires connecting a third transformer coil and said stop switch, said stop switch when closed establishing a circuit in said third transformer coil and said relay to thereby close said relay and open the start switch.

2,613,589
PACKAGE BINDING
John James Cheesman, Gerrards Cross, England, assignor, by mesne assignments, to General Strapping Corporation, New York, N. Y., a corporation of New York
Application July 13, 1945, Serial No. 604,882
In Great Britain July 14, 1944
20 Claims. (Cl. 100—4)



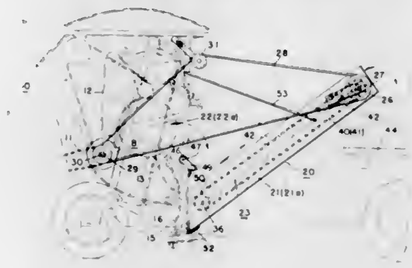
1. Mechanism for binding articles with band or strip material comprising, a ring and spaced rollers thereon adapted to support a non-circular coil of the material about the article to be bound and substantially in the plane of binding, means for rotating the said ring and coil unidirectionally while strip is withdrawn onto the article from inside the coil and strip from a main source of supply is fed onto the outside of the coil as required, and coil size controlling means comprising an arcuate feeler and a coil containing band adapted to contact the feeler, said containing band contacting the feeler as the strip material is accumulated on the coil and withdrawn therefrom, the said feeler being of such length that it will always overlie at least one of the ring rollers.

2,613,590
BALE TENSION MEANS
Wilbur H. Graybill, Lititz, Pa.
Application March 19, 1948, Serial No. 15,819
7 Claims. (Cl. 100—43)



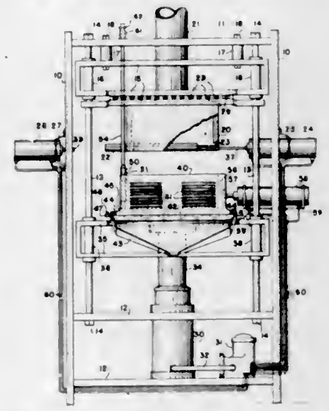
1. An attachment for hay or straw balers having laterally opposed pairs of tension rails pivotally supported at their front ends; comprising lever means operatively engaged with the rear free ends of the pairs of rails for moving same toward and from each other in effecting variation in the density of the bales, spring means operatively engaged with said lever means for normally urging the pairs of rails toward each other, movable bale-engageable means in advance of the free ends of the rails, adjustable spring means urging said movable bale-engageable means into engagement with the bales, and connections between the lever means and said bale-engageable means and engaged with the lever means for positively moving said rails apart upon increased density in the bales.

2,613,591
BALE LOADING ATTACHMENT FOR BALERS
Louis E. Bruns and Theodore M. Bruns, Hecla, S. Dak.
Application August 5, 1948, Serial No. 42,704
2 Claims. (Cl. 100—88)



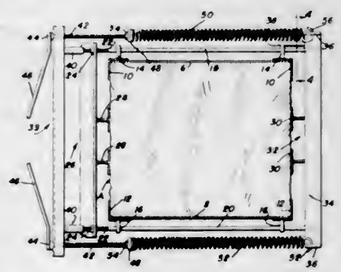
1. In combination with a baler having upper and lower belt means adapted to form material into a cylindrical bale and being movable to a bale discharge position for effecting discharge of the formed bale in downward direction, bale-elevating means directly coupled at its lower end to the baler in position to receive the bales discharging from the baler and being operative to elevate said bales in an upwardly inclined path, and a bale-engaging roller mounted on the baler frame having its bale-engaging surface substantially at the level of the upper surface of the lower belt means in its discharge position, said roller being operative both to guide and direct the discharging bales to the elevating means and to block return movement of a bale positioned on the lower end of said elevating means to said baler.

2,613,592
APPARATUS FOR EXPRESSING OIL
Clarence T. Nemir, Washington, D. C., assignor to K. N. H. Corporation, Washington, D. C., a corporation of Delaware
Application October 20, 1947, Serial No. 780,944
4 Claims. (Cl. 100—92)



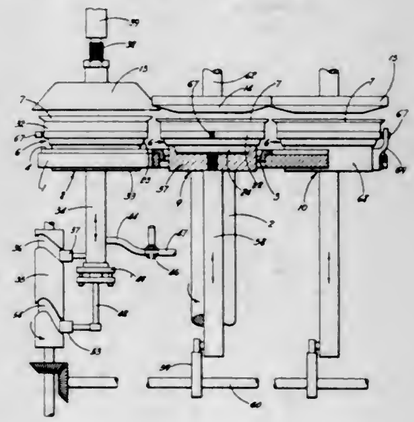
1. A press for expressing oil from oil containing material comprising a press cage having an open end and openings in the wall defining the cage through which expressed fluid flows, a preheating container disposed above the cage in position to telescope therein for compression of material within the cage, said container being formed as a compartment for receiving material to be expressed and having a bottom wall slidable transversely between open and closed positions and which, when in closed position, operates as a platen and to seal the bottom of the container and which, while in open position, permits material from the container to fall by gravity into the cage, and means for effecting relative movement between the cage and container between telescoped and retracted positions of adjustment.

2,613,593
EXPANSION CONTROL FOR HAY BALERS
Hilbert C. Schaefer, South Amana, Iowa
Application June 14, 1951, Serial No. 231,454
4 Claims. (Cl. 100—192)



2. In a hay baler of the class described, in combination, a baling chamber embodying upper and lower relatively fixed horizontal press plates disposed in spaced parallelism one above the other, a horizontal rod extending transversely across said upper plate and attached to said plate, one end portion of said rod being screw-threaded, a second horizontal rod extending transversely across the lower plate and attached thereto and one end thereof being screw-threaded, the screw-threaded ends of said rods projecting beyond the corresponding marginal edge portions of said upper and lower plates, an upright slidably mounted at its opposite end portions on the screw threaded ends of the respective rods, adjusting nuts on said screw-threaded portions bearing against the outer faces of said upright, tension rail means interposed between the intermediate portion of the upright and a corresponding portion of said baling chamber, complemental tension rail means opposed to said first named rail means and cooperable with the opposite side of said bailing chamber, a second upright having its intermediate portion bearing against the second named tension rail means, upper and lower pairs of coil springs disposed above and below the respective upper and lower plates and upper and lower rods, means anchoring corresponding ends of said coil springs to upper and lower ends of said second named upright, crossheads connecting the remaining ends of the coil springs in assembled relationship, a vertically disposed adapter plate disposed in spaced parallelism outwardly of said first named upright, means removably mounting said adapter on the adjacent screw-threaded end portions of said rods, tension adjusting bolts mounted in the respective upper and lower end portions of said adapter plate, and adjusting means for said bolts coacting with said adapter plate, said bolts being adjustably connected to the respective crossheads in a manner to permit said coil springs to be either tightened or loosened as the case may be.

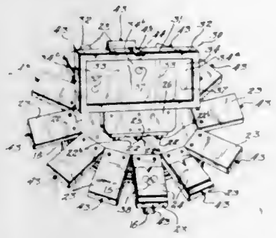
2,613,594
MULTICOLOR STAMPING OF DINNERWARE
Walter H. Emerson, deceased, late of East Liverpool, Ohio, by Elizabeth King Emerson, executrix, East Liverpool, Ohio, assignor to The Homer Laughlin China Company, Newell, W. Va., a corporation of Delaware
Application October 1, 1947, Serial No. 777,222
10 Claims. (Cl. 101—44)



1. In the multicolor decorating of dinnerware, an individual ware carrier, a movable support for supporting the carrier and moving it laterally

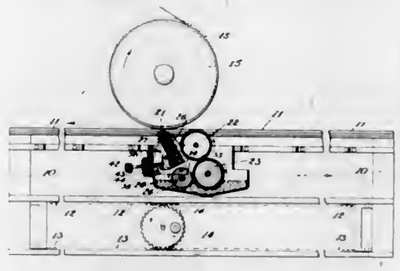
from one decorating station to another, retaining means for centering an article of ware on the carrier and holding it in fixed position thereon throughout the decorating operation, lifting members for elevating said carrier from said support at each of said stations, decorators for decorating the elevated ware at each station, and interengaging positioners mounted on said members and carrier for rotating the elevated carrier on a vertical axis to a predetermined position at each station, whereby to produce registration of the decorations applied to the ware at said stations.

2,613,595
REVOLVING MULTIPLE COLOR SCREEN PROCESS PRINTING TABLE
Joseph T. Weldon, New York, N. Y., assignor, by mesne assignments, to Multiscreen Corporation, New York, N. Y., a domestic corporation
Application January 5, 1950, Serial No. 136,950
2 Claims. (Cl. 101—115)



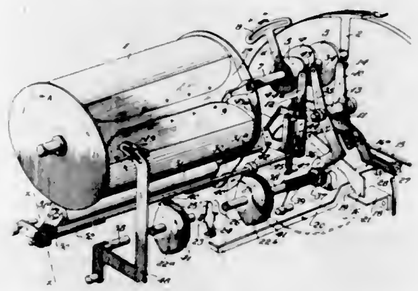
1. Printing means for printing a selected design in different colors on individual pieces of fabric supported on platforms mounted in a circle about the periphery of a table rotatively supported on a stepped block mounted on a fixed bed plate, comprising a flat block mounted on top of the stepped block rotatively retaining the table in position on the stepped block, a single elongated printing frame pivotally mounted along one side to an adjacent edge of said flat block to be pivoted downward onto adjacent platforms at one side of the table, said frame being of a length to cover several platforms when pivoted downward, said frame being divided into a number of adjacent printing sections corresponding in number to the number of platforms covered by said frame when lowered, a printing screen embodying a portion of the selected design to be printed in one color stretched across each of said printing sections to rest down on the surfaces of the pieces of fabric mounted on the platforms covered by said printing frame, means retaining said printing frame in a raised position off the platforms so that the table can be rotated to bring desired platforms into alignment with said printing frame, a pin extended radially outward from the outer edge of each of said platforms intermediate the side edges thereof, and a bracket depended from the side of said frame opposite its pivoted side, said bracket being located intermediate the ends of said frame and in alignment with the pin of the platform immediately below the center printing section of said printing frame, said bracket having an inverted V-shaped notch formed in its lower end to receive the pin of the platform centered below said printing frame for insuring that the table is in a proper rotative position in which the selected platforms are properly aligned with the printing sections of said printing frame in the lowered position thereof.

2,613,596
STENCIL PRINTING APPARATUS
Karl W. Meissner, New York, N. Y.
Application February 9, 1949, Serial No. 75,321
7 Claims. (Cl. 101—124)



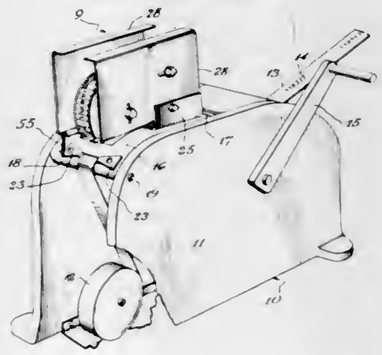
1. A stencil printing machine comprising a stencil, an ink reservoir below the stencil, ink-applying means above the level of the ink in the reservoir and below the stencil, means for transferring ink from the reservoir to the ink-applying means, a horizontally stationary squeegee above the reservoir and below the stencil to remove excess ink from the underside of the stencil and return such excess to the reservoir, means for reciprocating the stencil to and fro above the squeegee and ink-applying means, means for pressing a sheet of paper against the top of the stencil on alternate strokes of the latter, and means for bringing the stencil into contact with said squeegee and ink-applying means on such alternate strokes.

2,613,597
SHEET FEED DEVICE FOR ROTARY DUPLICATING MACHINES
Edgar Rutishauser, Zurich, Switzerland
Application July 26, 1948, Serial No. 40,644
In Switzerland March 24, 1947
6 Claims. (Cl. 101—132)



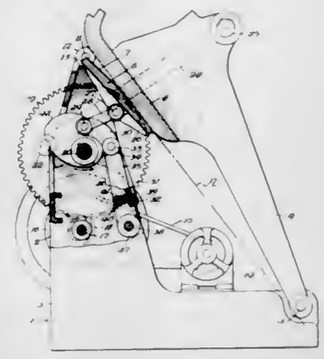
1. Rotary duplicating machine comprising a single rotatable printing cylinder supported in vertical guides, a pressing roller fixedly supported in a tilting lever to be in engagement with the printing cylinder during normal operation and to be out of engagement with said cylinder on interruption of the feed of blank sheets to be printed, a reciprocating pushing roll successively feeding sheets toward said cylinder, the pushing roll feeding a single sheet per revolution of the cylinder, at least two lead-in rolls and at least two auxiliary rolls in front of the cylinder, each lead-in roll and each adjacent auxiliary roll forming a pair of rolls to receive a sheet supplied by the pushing roll and to feed same forward to be received between the printing cylinder and the pressing roller, the lead-in rolls being located below, and the auxiliary rolls being located above, the sheets passing therebetween, the lead-in rolls being mounted for angular displacements in their relation one to the other, and to oscillate about their axis, the auxiliary rolls being arranged in parallel relation to the printing cylinder, and to intermittently move in and out of operative engagement with the lead-in rolls, and means to operate the printing cylinder, pressing roller, pushing roll, lead-in rolls, and auxiliary rolls, said means including cams mounted on one side of the shaft of the cylinder, and an adjustable arm solidly connected to said cams to set said cams jointly relative to the cylinder.

2,613,598
CODE PRINTING ATTACHMENT FOR TAPE DISPENSING MACHINES
James G. McKay, Chicago, Ill.
Application February 23, 1950, Serial No. 145,659
1 Claim. (Cl. 101—219)



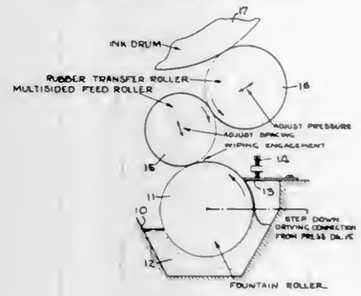
An attachment adapted to be associated with a tape dispensing machine having a tape-exposing window past which the tape moves as a portion thereof is being dispensed, said attachment including a unitary channel-shaped yoke having substantial width adapted to be fixedly secured to said machine on the upper end thereof, a shaft secured between the arms of the yoke, a pair of vertically arranged plate members pivotally mounted in spaced relationship on said shaft adapted for limited rocking movement between the yoke arms, a printing wheel mounted between said supporting plates for engagement with the exposed tape so as to rotate and print thereon while same is dispensed, a coil spring having one end thereof secured to said attachment and its opposite end adapted to be secured to the machine for resiliently biasing the attachment in a direction disposing the printing wheel into engagement with the exposed tape, a rotatable inking wheel also mounted on the supporting plates in engagement with the printing wheel whereby to transfer ink thereto, said printing and inking wheels each being rotatably mounted on a shaft secured between the supporting plates with said shafts arranged also to brace the supporting plates, said supporting plates each having a vertically arranged slot in which an end of the said printing wheel shaft is secured whereby to permit vertical adjustment between the printing wheel and the exposed tape and a horizontally arranged slot in which an end of the inking wheel shaft is secured whereby to permit horizontal adjustment between the inking wheel and the printing wheel.

2,613,599
OSCILLATING BED AND PLATEN PRESS
William C. Rupp, Parma, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application August 23, 1946, Serial No. 692,567
5 Claims. (Cl. 101—298)



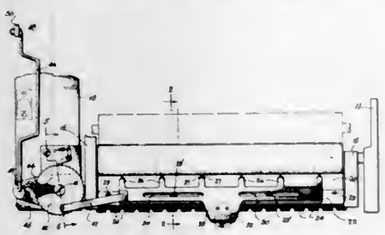
1. A platen printing press comprising a stationary frame, a second frame mounted for oscillation on said stationary frame toward and away therefrom for a printing operation, means for moving said frames to and from printing position, a type bed mounted on said second frame, a curved platen mounted on said stationary frame, pivot means mounting the upper end of said curved platen on said stationary frame for free swinging movement, link means pivotally mounted at one end thereof on said curved platen, a second link rotatably mounted at one end thereof on said stationary frame and pivotally mounted at the other end thereof intermediate the ends of said linkage means, a cam follower at said other end of said second link, a rotatable cam mounted on said stationary frame, means rotating said cam in timed relation with the movement of said oscillating frame, said platen and link means urging said cam follower into contact with said cam, said cam cooperating with said cam follower and both said link means, said cam having a portion thereon for moving said follower and through said linkage swinging said curved platen upwardly about said pivot means to sheet receiving position while said stationary frame and said second frame are in nonprinting position, said rotatable cam having a second portion thereon cooperating with said follower and said linkage means for swinging said curved platen about said pivot means from sheet receiving position to initial printing position as said oscillating frame moves toward said stationary frame, a third portion on said rotatable cam cooperating with said follower and said linkage means to provide a substantially constant pressure between said curved platen and type bed during the printing operation, said third portion on the rotatable cam controlling the swinging movement of said curved platen toward its frame about said pivot means under pressure of said type bed thereagainst during the printing operation, and means including said pivot means to obtain line contact between said curved platen and type bed progressively from one end thereof to the other as the lower end of said curved platen is moved toward its frame during the printing operation.

2,613,600
INKING ARRANGEMENT FOR PRINTING PRESSES
Henry L. McWhorter, Hinsdale, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois
Application February 7, 1950, Serial No. 142,906
4 Claims. (Cl. 101—350)



1. In an inking arrangement for a printing press having a slowly rotating fountain roller and a more rapidly rotating transfer roller of rubber or the like, a feed roller interposed between said fountain roller and said transfer roller, said ink feed roller having a cross section in the form of a substantially regular polygon with the differential between the corner radius and the flat radius thereof in the range between 3 and 10 one-thousandths of an inch, and means for supporting said feed roller in rolling engagement with said transfer roller but slightly spaced from said fountain roller so that ink is removed from said fountain roller primarily by the corners on said feed roller.

2,613,601
INK FOUNTAIN AGITATOR
Spencer D. Forbes, Seattle, Wash.
Application August 15, 1950, Serial No. 179,450
5 Claims. (Cl. 101—364)



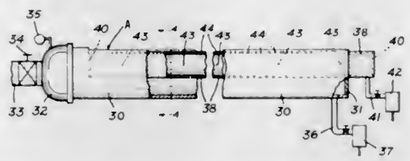
1. In a printing machine, the combination with an ink fountain including a fountain roller, a wall spaced therefrom and a bottom plate fixed on said wall and coacting with the roller to form a trough for a supply of ink, and a bar fixed to and extending along the top edge of the trough parallel with the roller; or an agitator plate extended along and reciprocally mounted on said bar, means on the bar for guiding the plate in its reciprocal action, a latch means on the plate normally engaging the bar to retain the plate in its functional position and releasable from the bar for removal of the plate from the trough, and means operable by a driven part of the machine for reciprocally actuating the agitator plate; said agitator plate being formed along one edge thereof with a plurality of spaced and downwardly extendnig fingers for the agitation of ink contained in the fountain, terminating close to the surface of the roller in points with oppositely beveled surfaces whereby ink is caused to be pressed against the roller surface by the reciprocal action of the agitator plate.

2,613,602
FORM COMPENSATING MEANS
Harry R. Retter and Charles R. Greene, Tipp City, Ohio; said Retter assignor to said Greene
Application September 4, 1948, Serial No. 47,854
1 Claim. (Cl. 101—404)



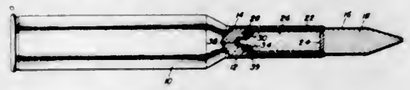
A disposable compensating insert usable in setting a block of type comprising a strip of compressible fibrous material, reversely folded upon itself transversely of the strip in alternating layers, a portion of said layers being of lesser extent than others, and adhesive coated areas on said strip, said areas being brought into contacting relation upon the folding of the strip to unite the reversely folded strip into a substantially integral one-piece assembly.

2,613,603
METHOD AND APPARATUS FOR SETTING MOISTURE-SETTING PRINTING INKS
Carl A. Ireton, Dayton, Ohio, assignor to The Specialty Papers Company, Dayton, Ohio, a corporation of Ohio
Application June 11, 1947, Serial No. 753,917
8 Claims. (Cl. 101—416)



1. In the printing of a web of paper or other material with ink of the moisture setting type wherein precipitation of the binder and setting of the ink is caused by taking up moisture from the surrounding moist atmosphere, the process of setting said ink which comprises the steps of supplying steam at a predetermined superatmospheric pressure, expanding said steam under confined conditions and removing water therefrom to effect drying thereof, again expanding said dewatered steam to a lower superatmospheric pressure under confined conditions, maintaining said steam during said expansion in heat receiving association with a substantially surrounding and higher temperature atmosphere for imparting heat to said steam during said second expansion to inhibit condensation of water therefrom and to maintain said steam in substantially dry state, releasing the expanded steam in the last said condition directly to the cooler atmosphere of a moisture applying zone with accompanying further expansion under conditions imparting a substantial velocity thereto, and causing said expanded steam to impinge upon said web to form adjacent said web a zone of substantially uniformly distributed and finely dispersed moisture condensation free of undesirably large droplets of water.

2,613,604
PROJECTILE BOOSTER
Robert A. Pyle, Lapeer, Mich.
Application June 2, 1950, Serial No. 165,723
4 Claims. (Cl. 102—38)



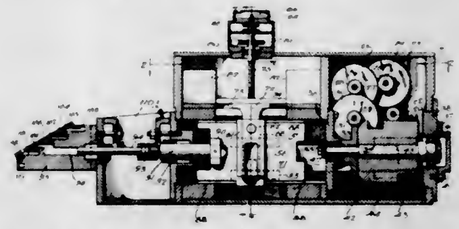
2. In a projectile having a rear hollow open end, a sleeve member received in the rear end of said projectile, a charge in said sleeve member, and an inflammable seal carried by the sleeve member at the rear end of the projectile and having a hollow rear portion extending rearwardly from the rear end of said sleeve member and the rear end of said projectile and receiving a portion of said charge.

2,613,605
PROJECTILE
Edgar William Brandt, Geneva, Switzerland, assignor to Anstalt für die Entwicklung von Erfindungen und gewerblichen Anwendungen "Energa," Vaduz, Liechtenstein, a corporation of Liechtenstein
Application July 11, 1947, Serial No. 760,423
In Switzerland November 9, 1946
2 Claims. (Cl. 102—50)



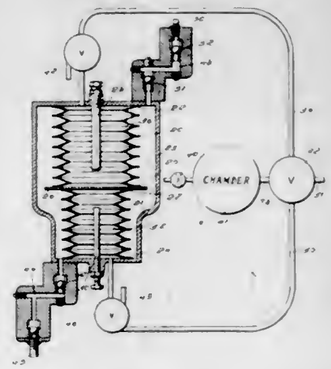
1. A hollow charge perforating projectile, said projectile comprising: a shell, a high explosive charge in said shell, said high explosive charge being formed with a front cavity, a hood applied against the walls of said cavity and adapted to be transformed by the detonation into a core, a base portion on said shell, a vaned tubular guiding tail mounted at the rear of said base portion, said base portion being formed with an annular inside groove at its rear inside end, said shell and said base portion engaging mutually over the height of the base portion, and a washer engaging the back part of said shell and being adapted to be forced during mounting into said groove to set together the shell with the base portion, in order to ensure the tightness between them.

2,613,606
CONSTANT DELIVERY PUMP
Milton Roy Sheen, deceased, late of Glenside, Pa., by Emma Elizabeth Sheen, coexecutor, Glenside, Pa., and Robert T. Sheen, Wyndmoor, Pa., and Royal Bartlett Saalfrank, Gulfport, Fla.; said Robert T. Sheen and said Saalfrank assignors to Milton Roy Company, Chestnut Hill, Pa., a corporation of Pennsylvania
Application October 6, 1948, Serial No. 53,122
10 Claims. (Cl. 103—38)



1. In a constant delivery pump, a pair of reciprocating pumps having common inlet and outlet and having reciprocating elements, a drive, cam means turned by the drive, followers engaging the cam means and respectively at different portions of the pump cycle, connecting rods carrying the followers and guided for reciprocation, pivoted crank blocks interconnected with and swung by the connecting rods, crossheads reciprocating and connected with the individual elements, sliding blocks slidable in the crossheads transversely to the direction of crosshead motion, followers making pivotal interconnection between the sliding blocks and the crank blocks and means for adjusting the sliding blocks to change the pivotal connection of the sliding blocks with the crank blocks.

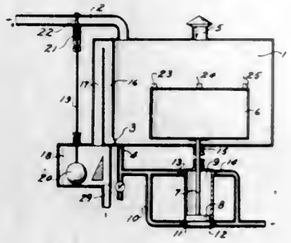
2,613,607
BELLOWS PUMP
Robert T. Sheen, Wyndmoor, Pa., and Royal Bartlett Saalfrank, Gulfport, Fla., assignors to Milton Roy Company, Springfield Township, Montgomery County, Pa., a corporation of Pennsylvania
Application October 27, 1949, Serial No. 123,804
23 Claims. (Cl. 103—44)



1. In a pump, a pump chamber including separated opposed bellows having different displacements per unit linear motion, both exposed to contact with fluid in the same pump chamber, inlet and outlet valves to the pump chamber, a source of fluid pressure for balancing the bellows

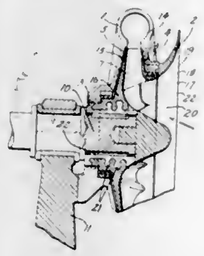
and means to admit the source of fluid pressure for balancing the bellows to the opposite sides of the bellows from that exposed in the pump chamber.

2,613,608
GRAVITY BUOYANCY PUMP
Jon Beam, Blue Ridge, Ga.
Application September 21, 1949, Serial No. 116,875
8 Claims. (Cl. 103—56)



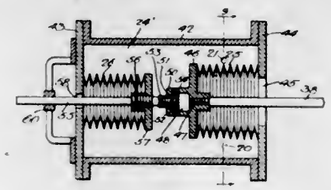
1. An apparatus of the class described comprising in combination a chamber having an inlet and venting means in the upper portion thereof, and an outlet in the lower portion thereof, a float movably mounted within said chamber, a cylinder positioned below said chamber, a piston housed by said cylinder and connected to said float, conduit connecting the lower portion of said chamber with said cylinder, a second chamber positioned below said first chamber and communicating therewith having an inlet in the upper portion thereof and an outlet of smaller cross-sectional area than the inlet thereof, means forming an inverted U-shaped passageway between the outlet of said first chamber and the inlet to said second chamber, a float in said second chamber, a valve in the inlet to said first chamber actuated by the float in said second chamber and valving means in the conduit connecting said cylinder with said first chamber whereby water is introduced and discharged from said cylinder by the upward and downward movement of the piston.

2,613,609
COMPRESSING MACHINE SUCH AS CENTRIFUGAL BLOWER OR PUMP
Alfred Büchi, Winterthur, Switzerland
Application December 30, 1947, Serial No. 794,505
In Switzerland January 28, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires January 28, 1962
3 Claims. (Cl. 103—115)



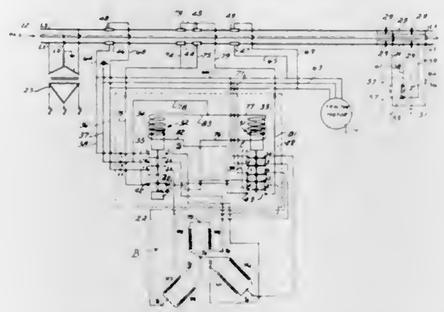
1. In a centrifugal pump or blower having a power driven shaft, an impeller disc mountable upon said shaft, said disc comprising a prefabricated inner hub part formed as a sleeve of high quality metal, said sleeve having a raised annular flange-like portion at one of its axial extremities and an annular projection intermediate said extremities, said raised portion and said projection together with the wall of the sleeve therebetween defining an annular cavity, both said portion and said projection overhanging axially said cavity, said sleeve being provided with means to prevent rotation thereof about said shaft, the remainder of said impeller disc being comprised of a light lower quality metal cast about said sleeve and within said cavity to form a radially extending disc hub and blade-supporting portion, and blades secured to the last said portion.

2,613,610
DIFFERENTIAL BELLOWS PUMP
Royal Bartlett Saalfrank, Gulfport, Fla., assignor to Milton Roy Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 4, 1949, Serial No. 74,676
16 Claims. (Cl. 103—148)



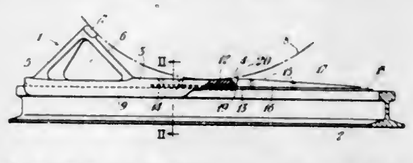
1. In a pump, walls forming a pump chamber including in the walls of the pump chamber two bellows having different displacement characteristics per unit of motion, an operator for reciprocating one of the bellows back and forth, and the other bellows being at least in part free from the one bellows, whereby the motion to the other bellows is imparted by fluid in the pump during at least a part of the stroke.

2,613,611
REMOVING LINT BY VARIABLE-SPEED TRAVELING BLOWER
Andrew B. Simon, Cleveland, Ohio, assignor to The American MonoRail Company, Cleveland, Ohio, a corporation of Ohio
Application April 10, 1946, Serial No. 661,017
8 Claims. (Cl. 104—150)



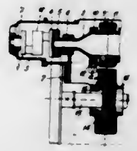
1. A blower system comprising in combination a track, a carriage adapted to move along the track, a propelling motor in said carriage, a two-speed blower motor supported by said carriage, a pair of trolley bars along said track, a source of current connected to said trolley bars, said trolley bars having "dead" sections therein, insulated from the remainder of said trolley bars and from said current source, remote speed-control switch means for selectively connecting one or the other of said "dead" sections to the remainder of the corresponding trolley bars, a motor speed controller having alternative control windings, one serving upon energization to connect the blower motor for high-speed operation and the other serving upon energization to connect the blower motor for low-speed operation and being slower acting than the high-speed control winding, contact shoes carried by said carriage, one of said contact shoes connecting said trolley bars to said propelling motor for continuous operation thereof and to said motor speed controller, and another set of shoes connecting said trolley bars to said control windings, whereby, when the latter set of contact shoes contacts the "dead" sections of the trolley bars, speed controller operation is responsive to the setting of said remote speed-control switch means.

2,613,612
RAILWAY TRACK SKATE
Herbert L. Bone, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application May 16, 1951, Serial No. 226,713
14 Claims. (Cl. 104—260)



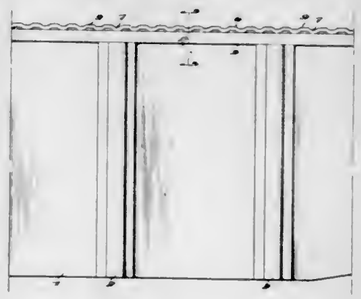
1. A railway track skate comprising a body portion terminating in a toe, a recess in the underside of said body portion, a spring tail having one end within said recess and secured to said body, and a wedge secured to the upper surface of said spring tail adjacent to the other end thereof and adjacent to the toe of said body portion, said wedge forming an inclined surface for a car wheel to roll upwardly thereon and onto said body portion.

2,613,613
STEAM LOCOMOTIVE, INCLUDING INDIVIDUAL AXLE DRIVES
Hans Nyffenegger, Winterthur, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application March 7, 1945, Serial No. 581,407
In Switzerland December 18, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires December 18, 1963
1 Claim. (Cl. 105—115)



In a steam locomotive having a main frame, a plurality of driving wheel-and-axle sets mounted in said frame, a drive unit for each said set, said unit including two multi-cylinder piston engines having each a crank case and a crank shaft situated exteriorly of said main frame on either side thereof, transmission gearing common to both crank shafts for transmission of torque from the crank shafts to the corresponding wheel-and-axle set, a gear casing rigidly secured to said main frame, a pinion shaft having opposite ends rigidly coupled each with one of said crank shafts, said gearing including a primary pinion on said pinion shaft, a gear wheel surrounding the driving axle in driving connection with said pinion, and a flexible torque transmission coupling between said gear wheel and the driving axle, said crank cases of each driving unit being directly secured to the respective transmission gear casing.

2,613,614
ANCHOR FOR HIGH-TENSION LOADING BANDS FOR GONDOLA CARS
Ernest G. Goodwin, Toledo, Ohio
Continuation of application Serial No. 121,780, October 17, 1949. This application January 25, 1951, Serial No. 207,810
3 Claims. (Cl. 105—369)

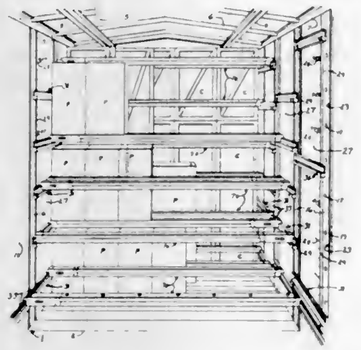


1. In a gondola car, the combination of side sheets and side stakes, an angle bar extending longitudinally of the car and secured to the upper ends of said sheets and stakes, said bar having a horizontal flange terminating in a depending reinforcing portion and a high tension loading band anchor rod contacting and secured to the horizontal flange in vertical alignment with said depending reinforcing portion and at spaced intervals, the spaces between said connections being adapted to receive the looped portions of the anchor bands, said rod serving to additionally reinforce said sheets, stakes and anchor bar against lateral distortion, caused by stresses at right angles to the longitudinal axis of said reinforcing portion.

2,613,615
FREIGHT LOADING
Sulo Michael Nampa, Detroit, Mich., assignor to Evans Products Company, Detroit, Mich., a corporation of Delaware
Original application March 12, 1942, Serial No. 434,357. Divided and this application February 3, 1945, Serial No. 576,051
22 Claims. (Cl. 105—369)

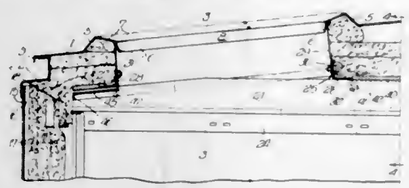
1. In a freight loading system, the combination with a chamber having a body structure provided with a doorway and movable door therefor, an adjustable freight loading member and means for supporting said member in any of a plurality of freight loading positions comprising supporting means carried by and movable with said door, said member and said last-mentioned

means each having holding elements which are releasably but interlockingly co-engageable to



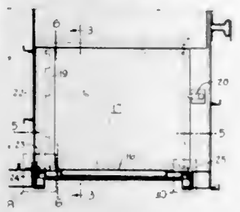
effect said support in each of said plurality of positions.

2,613,616
HATCH SKIRT AND INSULATION PAN SUPPORT
Edward S. Cisco, Highland, Ind., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application April 1, 1950, Serial No. 153,343
5 Claims. (Cl. 105—377)



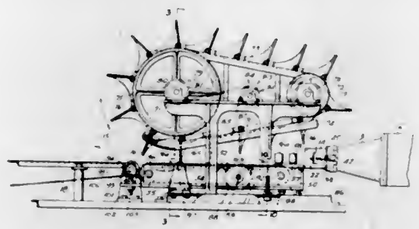
1. In a railway car having a roof sheet, a hatch opening through said roof sheet, a hatch skirt depending from the margins of said hatch opening, purlins at opposite sides of said skirt for supporting said skirt, and pans extending laterally from the lower margins of said hatch skirt and said purlins for supporting insulating material about said skirt between said pans and said roof sheet.

2,613,617
WEATHER SEAL FOR CLOSURES
Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 18, 1949, Serial No. 111,011
4 Claims. (Cl. 105—429)



1. Closure weatherproofing for a side door and trapdoor of a vestibule, comprising in combination, a side door hinged at the inner end vestibule wall, a trapdoor hinged forwardly of the side door hinge line whereby to swing up in front of the side door and to swing down below it, weatherstripping on the frame for the sides of the side door and extending below the trapdoor, weatherstripping on the inner side, front side, and rear hinge side of the trapdoor, a threshold on the top surface of the trapdoor beneath the side door when closed, the threshold having a projecting end extending behind the hinge line of the trapdoor, the ends of said threshold engaging the door side weatherstripping when the trapdoor is closed, weatherstripping on the bottom of the side door cooperating with said threshold to form an air and water excluding seal therewith, the weatherstripping on the bottom of the door engaging and forming a seal at its ends with the weatherstripping for the sides of the side door, and weatherstripping on the side of the projecting rear end of the threshold cooperating and sealing with a mating fixed side surface behind the hinge line and at the end with the side weatherstripping for the hinge side of the side door.

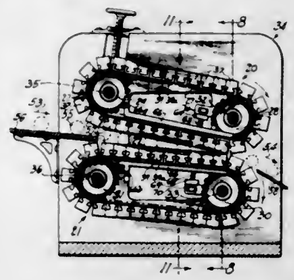
2,613,618
CUTTING MECHANISM AND EXTRUSION NOZZLE FOR CONTINUOUSLY MOVING PLASTIC BARS
Albert Sharp and George Sharp, Bayonne, N. J.
Application May 25, 1948, Serial No. 29,136
16 Claims. (Cl. 107—14)



16. In a machine for shaping a continuously advancing bar and for severing the bar into blocks of predetermined length, a nozzle having a discharge opening of predetermined size and shape for the passage of the bar, a blade chain having a number of blades in the path of the bar and movable by the bar in the direction of movement of the bar, and means for adjusting the effective width of the discharge opening of the nozzle comprising a movable nozzle section forming the front wall and parts of the top and bottom walls of the nozzle and slidable on the remaining relatively fixed parts of the top and bottom walls of the nozzle, the edges of the top and bottom walls of the movable section being inclined and sliding on the correspondingly inclined respective edges of the fixed parts, means for pressing the corresponding inclined edges together, and an adjusting screw in threaded engagement with the movable section and operable while a bar is being advanced through the discharge opening.

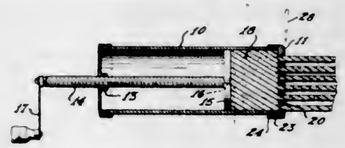
2,613,619
MULTIPLE MOLD CONTINUOUS PLASTIC FORMING MACHINE
Adolf E. Willomitzer, Salt Lake City, Utah
Application February 1, 1947, Serial No. 725,858
2 Claims. (Cl. 107—20)

1. A machine for forming bodies of revolution from plastic material, comprising two endless conveyors arranged one above the other with the lower run of the upper conveyor in operative registry with the upper run of the lower conveyor, the said conveyors having correspondingly formed molding channels running longitudinally thereabout in mutually registering relationship to



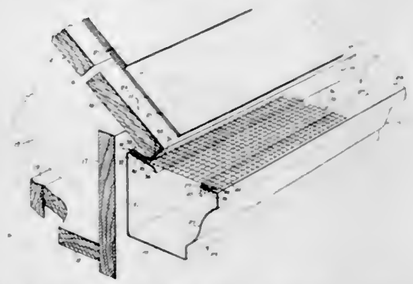
define product-forming tunnel means during operation of the machine; means for driving one of the conveyors in one direction at a given speed; and means for driving the other conveyor in the opposite direction at a different speed.

2,613,620
METHOD OF PREPARING DOUGH FOR BAKING
William M. Allen, Glendale, Ohio, assignor to Model Crafters Inc., Hamilton, Ohio, a corporation of Ohio
Application August 9, 1947, Serial No. 767,822
2 Claims. (Cl. 107—54)



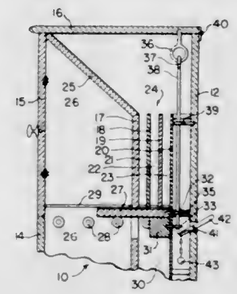
1. The method of preparing dough for baking which includes the steps of extruding the dough through a long continuous convoluted orifice, cutting off a length of extruded dough, and opening the extruded length of dough into a flat sheet, said sheet having a width equal to the length of said orifice and the length depending upon the amount of dough extruded.

2,613,621
EAVES FLASHING FOR GUTTER-PROTECTING DEVICES
Charles H. Schraeder, Detroit, Mich.
Application January 10, 1949, Serial No. 70,117
6 Claims. (Cl. 108—30)



1. A gutter-protecting device for attachment to a roof eave and gutter of a building, said gutter protecting device comprising a flashing including an elongated member of sheet material having a plate-like upper supporting portion fitting against the eave, an intermediate portion extending downward from said upper portion past the edge of the eave, and a lower portion extending rearwardly from said intermediate portion and having a generally-horizontal screen-holder thereon; and an elongated reticulated gutter screen having a width sufficient to cover the gutter, said screen having its forward edge portion engageable with the forward edge portion of the gutter and its rearward edge portion secured in said screen holder.

2,613,622
MONEY BOX
August Wilhelm Wolters, Southampton, N. Y.
Application June 9, 1949, Serial No. 98,003
4 Claims. (Cl. 109—46)

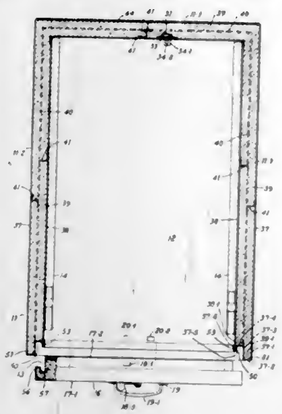


1. In a money box, the combination with side wall portions and a lid portion constituting a box, said lid portion being pivotally connected to one of said side wall portions and swingable from an open to a closed position, said box comprising a money compartment open at the bottom, a bottom portion for said money compartment, said bottom portion being supported in operative relation to said money compartment so as to be slidable from a closed to an open position, of means actuating said bottom portion into a normally open position and lock means for holding said bottom portion in closed position, said lock means comprising keeper means comprised by said bottom portion, said lock means further comprising detent means pivotally connected to and actuated by said lid portion and engaging said keeper means and maintaining said bottom portion in closed position when both said lid and said bottom portion are in closed position, said lock means further comprising further keeper means, and further detent means engageable with said further keeper means when said bottom portion is in closed position and said lid portion is partially open to keep said bottom portion in closed position, said further detent means comprising means operative to keep said further detent means normally out of engagement with said further keeper means.

2,613,623
INSULATED FILING CABINET CONSTRUCTION
Herbert C. Behrens, Canton, Ohio, assignor to Diebold, Incorporated, Canton, Ohio, a corporation of Ohio
Application September 4, 1948, Serial No. 47,838
3 Claims. (Cl. 109—59)

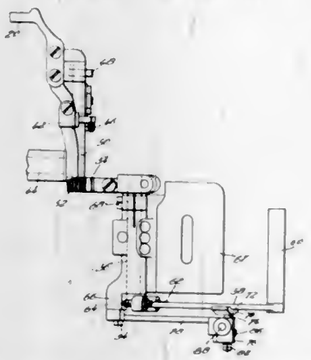
1. In insulated filing cabinet construction, a case including composite walls forming a com-

partment having an end opening, a drawer operatively mounted for movement into and out of the compartment and the drawer including a closure front, the ends of the compartment forming composite walls around the opening including jamb frame members forming a jamb frame extending around the opening, each jamb frame member including sheet metal walls forming a groove having a bottom wall and an outer groove side tongue wall extending from one edge of the bottom wall and a multi-ply inner groove side tongue wall extending from the other edge



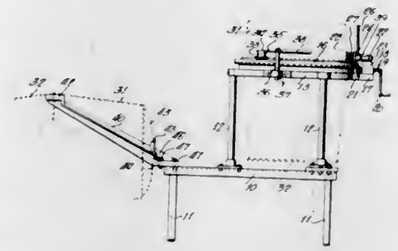
of the groove bottom wall the multi-ply tongue wall including a plurality of plies of sheet metal abutting each other and having connections with each other, and the drawer front having bounding jamb members, each drawer front jamb member including an outer tongue at the outside of an inner groove, each drawer front jamb member tongue being arranged when the drawer is closed to fit in one of the compartment jamb frame member grooves, and each drawer front groove being arranged when the drawer is closed to fit over one of the multi-ply sheet metal jamb frame inner groove side tongue walls.

2,613,624
WORK GUIDING MEANS FOR SHOE SEWING MACHINES
Walter D. Shaffer, Chicago, Ill., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application June 9, 1949, Serial No. 98,025
6 Claims. (Cl. 112—51)



1. An outsole shoe sewing machine having a work support, a needle, an edge gage, a manually operated member mounted for movement during sewing operations, connections between the member and the edge gage to move the gage and means for limiting the movement of the edge gage to either of two extreme positions, in combination with means for stopping movement of the connections yieldingly at a third position between the extreme limiting positions of the gage comprising a spring-pressed detent acting on the connections, and means for restraining the detent in inoperative position against the pressure of its spring to enable free operation of the gage moving member past its third position.

2,613,625
BILGE DRUM ASSEMBLING MACHINE
Armistead Leake, Mobile, Ala., assignor to The Lerio Corporation, Mobile, Ala.
Application July 28, 1949, Serial No. 107,203
6 Claims. (Cl. 113—22)

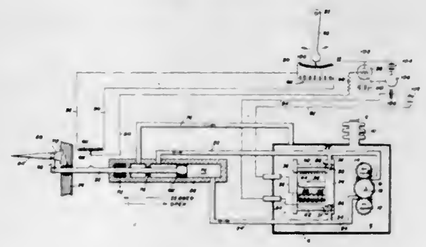


1. In a machine for assembling the prefabricated end sections of a metal drum having interengageable and preformed annular flanges of unequal widths, the widest of which has an upturned peripheral portion, a circular mounting having an annular recess in its inner periphery, a ring gear having an annular flange depending in said recess, a crank and pinion for rotating said ring gear, an anvil ring disposed in an annular recess in said ring gear and on which is suspended the lower end section of said drum, a flange roller arranged for lateral swinging displacement with respect to the flange of said lower drum section and that of the companion section disposed on said first flange, means for holding said roller in engagement with the upturned peripheral portion of the flange of said lower section to fold said upturned peripheral portion onto the flange of said upper drum end section during rotation of said ring gear to effect interengagement of said flanges, a flattening roller spaced from said flanging roller and mounted for lateral and perpendicular displacement with respect to said section flanges, and means for holding said flattening roller compressedly against the interengaged flanges during rotation of said ring gear.

2,613,626
METHOD OF COLD DRAWING SHEET METAL
Forrest Jerome Whitney, Jr., Wayne, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application July 21, 1948, Serial No. 40,001
2 Claims. (Cl. 113—51)

1. In the cold deep drawing of steel sheets by means of dies, the steps of providing a thin chemically adherent coating of zinc phosphate on a quantity of said sheets, applying to said quantity of sheets, a non-pigmented lubricant containing a high fatty acid radical which chemically reacts with said coating, cold deep drawing said quantity of sheets by the use of dies whereby there is transferred from said sheets to said dies as the deep drawing is effected material which includes at least some of the phosphate coating material and some of the product of said reaction, applying to a smaller quantity of uncoated steel sheets a non-pigmented lubricant of the same type as applied to the coated sheets, and cold deep drawing said second smaller quantity of sheets by the use of the same dies, the lubricants being selected from the group consisting of approximately one per cent sodium soap—ninety-nine per cent water; approximately two per cent sulphonated tallow—ninety-eight per cent water, the pH of the lubricant being approximately 8; approximately one per cent chlorinated paraffin, forming an emulsion with approximately two per cent sodium soap, using approximately ninety-seven per cent water.

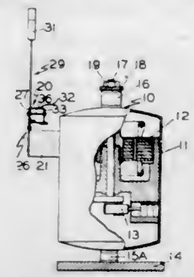
2,613,627
TORPEDO DEPTH CONTROL SYSTEM
August I. Keto, Los Altos, Calif., assignor to the United States of America as represented by the Secretary of the Navy
Application October 25, 1948, Serial No. 56,316
9 Claims. (Cl. 114—25)



1. An electro-hydraulic depth control system for torpedoes, a rudder and a piston and cylinder engine for moving it, a pendulum potentiometer actuated by fore and aft inclination of the torpedo, fluid pressure means for moving the piston in reverse directions and including magnetic valve means and an energizing circuit therefor including normally open contacts with a relay for closing them, an electronic device and a circuit from the potentiometer including the relay and the device to successively energize and deenergize the relay, and a piston potentiometer connected in parallel with the pendulum potentiometer and including a contact maker movable with the piston and connected to the electronic device to vary the current through the relay and operating the relay contacts to vary the magnetic valve means and thereby to produce a rapid fluttering action of the piston and of the rudder.

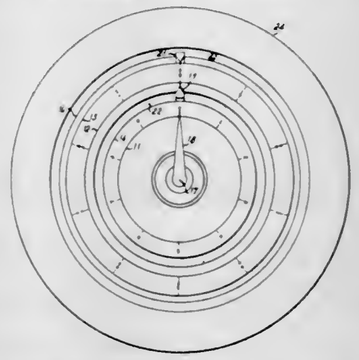
2,613,628
ROTATION INDICATOR FOR HERMETICALLY SEALED MOTOR COMPRESSOR UNITS
John Calling, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application May 11, 1951, Serial No. 225,779
4 Claims. (Cl. 116—115)

1. A serviceman's testing apparatus for translating limited rotative movement of the casing of a hermetically sealed and resiliently mounted mechanism into visual manifestation in order to determine direction of rotation of a rotating element adapted to rotate in either of two directions therewithin, comprising: a translatorial base adapted for movement with the mechanism casing; manifesting means, including an indicator arm adapted for indicating direction of rotation of an element rotating within the sealed mechanism; means for pivotally mounting said indicator arm on said base so that the pivotal axes of the arm is spaced a substantial distance from the center of mass of said arm; resilient retaining means arranged to engage the pivoted



end portion of said indicator arm and support it in an upright position when the rotating element of the sealed mechanism is at rest; and magnetic means for temporarily attaching said base to the sealed casing whereby the limited rotative movement of the casing, resulting from the starting impulse of the rotating element therewithin, may be transmitted to the manifesting means to cause the arm thereof to be deflected to one side or the other in accordance with the direction of rotation of the rotating element within the casing.

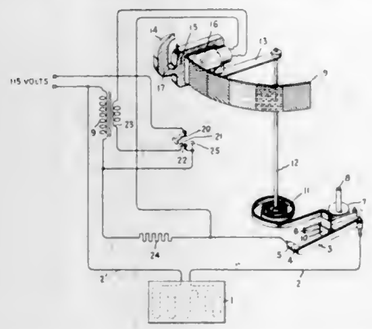
2,613,629
FULL-VIEW CONCENTRIC INDICATOR
Leon A. Maybarduk, Sunnyside, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application August 30, 1950, Serial No. 182,350
4 Claims. (Cl. 116—129)



1. An indicator comprising, a casing having front and rear faces, a hub member fastened to the rear face of said casing and extending forwardly towards the front face thereof, an inner dial fastened to the forwardly extending portion of said hub member and lying substantially in the plane of the front of said casing, at least one intermediate dial, supporting means therefor fastened to the rear face of said casing and extending forwardly and outwardly positioning said intermediate dial in substantially the same plane

as said inner dial but radially spaced therefrom provided a circumferential slot therebetween, a shaft mounted internally and axially of said hub member, a pointer carried thereby cooperating with said inner dial, a rotatable member rotatably mounted externally on said hub member, a pointer arm carried by said rotatable member and positioned forwardly and radially inwardly of said supporting means, said pointer arm having an offset end portion extending through said circumferential slot and carrying a pointer cooperating with said intermediate dial.

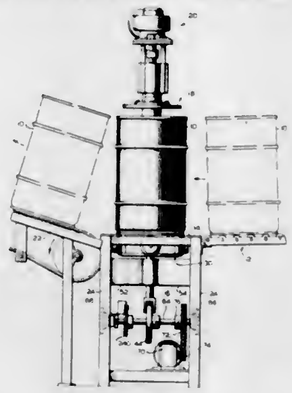
2,613,630
CONTROL DEVICE
Jacob W. McNairy, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application January 22, 1947, Serial No. 723,549
2 Claims. (Cl. 116—129)



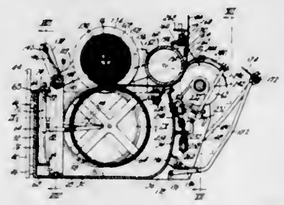
1. In a control apparatus for an electric heating device, the combination of a housing having an elongated aperture therein, an adjustable element movable with respect to said housing and having a U-shaped portion within said housing and an operating portion extending outside of said housing through said aperture for manual adjustment, said element being formed of a translucent material having a high index of refraction, illuminating means carried between the legs of said U-shaped portion, and a light filter disposed between said illuminating means and said element for varying the light transmission corresponding to adjustment of the position of said element.

2,613,631
APPARATUS FOR PROCESSING SURFACES OF CYLINDRICAL ARTICLES AND THE LIKE
Eugene J. Anderson, New Orleans, La., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application December 15, 1950, Serial No. 201,033
5 Claims. (Cl. 118—6)

1. In apparatus for processing surfaces of cylindrical objects, a horizontal plate member adapted to support a cylindrical object in an upright position, roller means arranged to engage the lower end of the cylindrical object, means to elevate the roller means above the upper surface of the horizontal plate to raise the cylindrical object above the plate, a rotatable head member having its axis of rotation aligned with the axis of rotation of the cylindrical object as positioned on the roller means, the rotatable head means being positioned a predetermined distance above the horizontal plate whereby the cylindrical object in its elevated position will engage the head means, means to rotate the head means about its axis to rotate the cylindrical object, and processing devices so positioned to be adjacent the periphery of the cylindrical object in the elevated position of the latter whereby at least portions of the cylindrical surface may be processed as the object is rotated.



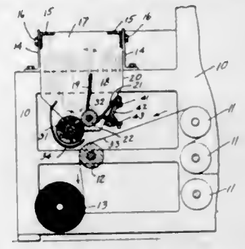
2,613,632
WALLPAPER PASTING AND TRIMMING MACHINE
William C. Renne, Kansas City, Mo.
Application September 18, 1950, Serial No. 185,481
28 Claims. (Cl. 118—38)



1. In a wallpaper machine of the class described adapted to receive a roll of wallpaper from which paper may be drawn, a support, a paste roller carried for rotation by said support, and means carried by said support for supporting said roll of wallpaper rotatably parallel to and in contact with a portion of said paste roller, said paste roller comprising a plurality of axially spaced apart sections, said sections being interchangeable and of graduated widths whereby the used portion of said paste roller may be adjusted to the width of the paper.

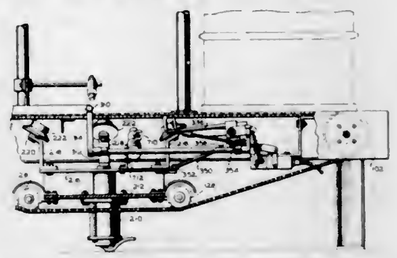
2,613,633
WAX POWDER APPLICATOR AND OFFSET ELIMINATOR
William Russell Dreesen, Indianapolis, Ind.
Application October 12, 1950, Serial No. 189,864
2 Claims. (Cl. 118—308)

1. An apparatus for use with a printing press in applying an offset preventing medium to the freshly printed surface of a sheet or web, comprising a hopper for said medium having an open bottom, a rotating member rotatably connected at opposite ends to the end walls of said hopper and spanning the open bottom of said hopper, means for rotating said member, a rotating brush lying parallel to and substantially coextensive with said member and having means for rotation thereof at a faster rate of speed than said member, said brush normally being operably associated with said rotating member at a point exteriorly of the hopper enclosed surface of said member, and adjustable means for varying the proximity of said brush to said member, said means comprising a pair of substantially L-shaped levers each being pivotally connected at



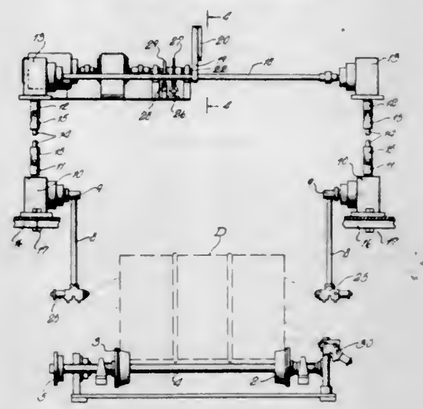
one end to an end wall of said hopper exteriorly thereof, the opposite end of each of said levers having the opposite ends of said brush journalled therein, a pair of opposed lugs connected to each of said end walls exteriorly thereof, said lugs having an internally threaded aperture formed therethrough, and an externally threaded element adjustably disposed in each aperture, a portion of said levers being interposed between the free ends of the elements of each pair.

2,613,634
APPARATUS FOR PROCESSING SURFACES OF TUBULAR ARTICLES SUCH AS STEEL DRUMS AND THE LIKE
Stanley S. Johns, Baltimore, Md., and William Funk, Houston, Tex., assignors to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application September 29, 1950, Serial No. 187,572
10 Claims. (Cl. 118—315)



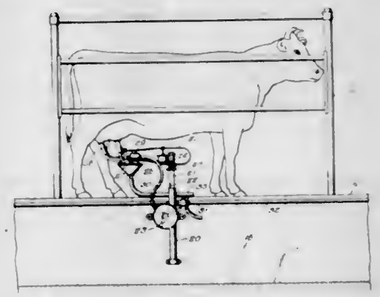
1. In conveyor line apparatus for processing cylindrical objects moving in upright position along the conveyor, head means, lift means located at a predetermined position along the conveyor to remove the objects from the conveyor, trigger means for detecting the presence of containers at said predetermined position and arranged to operate the lift means, means for actuating the lift means to move an object from the conveyor and into engagement with the head means for retaining the object between the said lift and head means with the axis of the object extending in a line therebetween, means for rotating the head means to rotate the object about said axis while it is retained in engagement with the head means by the lift means, and processing means positioned adjacent the peripherial surface of the object when the latter is rotated for performing a processing operation on at least a portion of the surface of the object.

2,613,635
APPARATUS FOR SPRAYING ROTATING RADIAL SURFACES
Wallace MacWilliam, Boonton, N. J., assignor to Eclipse Air Brush Co., Newark, N. J., a corporation of New Jersey
Application January 24, 1949, Serial No. 72,411
8 Claims. (Cl. 118—316)



1. Apparatus for spraying a radial surface rotating about a fixed axis, said apparatus including means for rotating said surface about a fixed axis, a lever, a pivotal support positioned at a location offset radially from said axis and mounting said lever by one end so that the other lever end swingingly traverses said surface in front thereof and substantially parallel thereto, and a fan spray gun mounted on said swinging lever end to swing therewith and directed to eject its fan spray in a plane aligned radially with said pivotal support and aimed towards said surface to spray the latter, whereby said spray is radially oriented respecting said rotating surface's axis when said lever is swung to position said spray gun opposite to said axis, the distance between said spray gun and said pivotal support being proportioned to cause the plane of said fan spray to be oriented substantially tangentially to the rotation of said rotating radial surface when said lever is swung to position said spray gun opposite to the peripheral portion of said surface.

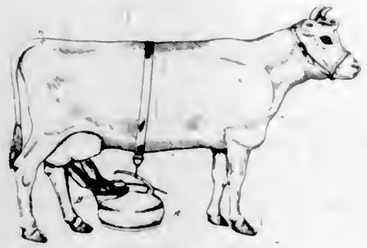
2,613,636
SUPPORT FOR MILKING APPARATUS
Henry B. Babson, Chicago, Ill., assignor to Babson Bros. Co., a corporation of Illinois
Application June 30, 1950, Serial No. 171,380
9 Claims. (Cl. 119—14.13)



1. A supporting arrangement for a milking apparatus including a relatively rigid structure and

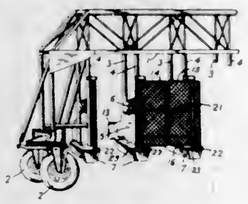
a milk-receiving device having attached thereto cups adapted to receive the teats to be milked, comprising: a yieldable arm member horizontally pivoted to a relatively rigid support on said structure and having a free end operably connected to and supporting the device and of a strength sufficient to support the device when the cups are disconnected from the teats; and intermittently operated motor means connected to a relatively rigid part of said structure and to the arm and acting through at least a portion of the yieldable part of the arm member for periodically and intermittently exerting a pull on said device and thus on said teats.

2,613,637
LID FOR SUSPENDED MILKERS
Thomas B. Crawford, Arcadia, Calif., assignor to Babson Bros. Co., a corporation of Illinois
Application November 18, 1949, Serial No. 128,111
6 Claims. (Cl. 119—14.46)



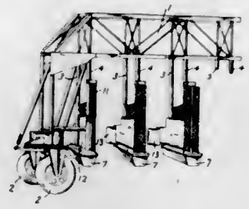
1. A lid for a suspended milker adapted to be supported forwardly of the udder of a cow, comprising a body portion and four milk tube connector nipples mounted thereon and opening therethrough, said nipples being mounted on the lid in an arc of the order of 110° with their axes at the mounting point being in a single plane and extending radially therefrom, the ends of the two center nipples being spaced substantially farther from said arc than the ends of the outer two nipples and said center nipples being adapted to be connected to the rear teats of said udder.

2,613,638
STARTING GATE
William E. Christ, Hempstead, N. Y.
Application July 16, 1947, Serial No. 761,273
8 Claims. (Cl. 119—15.5)



1. A race starting gate having a stationary structure including substantially vertical partitions forming a plurality of stalls, at least one door having a substantially vertical edge closing the forward end of each of said stalls, each of said doors being pivoted to said stationary structure of the gate adjacent said vertical edge of the door, at least one spring operatively connected to said doors and stationary structure to swing said doors to open positions, an electromagnetic unit and a cooperating armature unit for each of said doors to hold the doors closed against said springs, of each electromagnetic unit and its armature unit, at least one of said units being mounted on said fixed structure of the gate substantially at a partition adjacent its respective door and the other being mounted movably for movement toward and from the one said unit, and means connecting each said movable unit to its respective door adjacent said vertical edge of the door and below the top of the door for movement with the door.

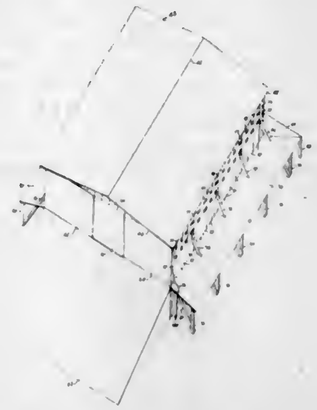
2,613,639
STARTING GATE
William E. Christ, Hempstead, N. Y.
Application July 16, 1947, Serial No. 761,359
5 Claims. (Cl. 119—15.5)



1. A race starting gate having a stationary structure including substantially vertical partitions forming a plurality of stalls, at least one substantially vertical door for closing the forward end of each of said stalls, each of said doors having a vertical edge and a top, each of said doors being pivoted to said stationary structure of the gate adjacent said vertical edge of that door, at least one spring operatively connected to said doors and stationary structure to swing said doors to open positions, a latch and keeper for each of said doors, said latches to engage said keepers to hold the respective doors closed against said at least one spring, of each latch and keeper, at least one being mounted on said stationary structure of said gate substantially adjacent its respective door and the other being connected to its respective door adjacent said vertical edge of the door and below said top of the door for movement with the door, an armature operatively associated with each of said latches to control the positions of the respective latches relative to the keepers, and an electromagnet to control each of said armatures.

2,613,640
HAY STORAGE AND FEEDING BARN
Dave Cameron, York, S. C.
Application October 30, 1950, Serial No. 192,967
4 Claims. (Cl. 119—16)

1. A feeding and storage barn having side walls and end walls supported by a plurality of spaced vertical posts, said storage barn also having a roof, at least two longitudinally extending storage sections within said barn, said storage sections extending in parallel relation to each other and having a passageway therebetween, the lower walls of each of said storage sections converging inwardly toward each other and having a plurality of feeding openings therein, whereby cattle may be positioned adjacent said feeding openings to reach feed within said storage sections, each of the storage sections having a plurality of spaced transversely movable members near the bottom thereof, a plurality of longitudinally extending members disposed between the transverse members and being pivotally connected at their ends to the transverse members, whereby when movement is imparted to the



transversely and longitudinally extending members, the contents of the storage sections will be agitated.

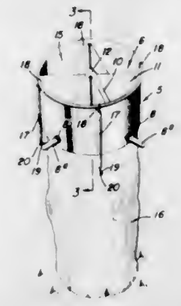
2,613,641
AUTOMATIC FLOCK FEEDER
Nat Cordis, Wilmot, Wis., assignor of one-half to Gerald L. Kitson, Charles H. Kitson, and Leon Kitson, all of Rockford, Mich.
Application November 29, 1947, Serial No. 788,804
20 Claims. (Cl. 119—51)



1. A dispenser for pulverant feed material comprising a flanged trough, a driving means at one end of said trough, idling pulley means at the other end of said trough, a conveyor adapted to pass over said driving and idling means longitudinally through said trough, and a plurality of spaced distributor paddle means carried by said conveyor for depositing the pulverant material along the sides of the trough said distributor paddle means having a maximum width and cross-section considerably less than the width and cross-section respectively of said trough.

2,613,642
CONTAINER FOR FEEDING SUCKLING CALVES
Erwin J. Hiller, Cuero, Tex.
Application November 1, 1948, Serial No. 57,727
1 Claim. (Cl. 119—71)

Means for simultaneously feeding a plurality of suckling animals comprising a container embodying an annular rim open at upper and lower end portions, a hollow cone fitted vertically and concentrically within the confines of said rim, the lower end portion of said rim depending below the base of the cone and providing an endless skirt, a plurality of inverted V-shaped dividers arranged at equidistant circumferentially spaced points in the space between said cone and inward surface of the surrounding rim and secured respectively to the cone and rim and coacting therewith in defining individual feeder compartments, the rim at the lower end portion of each compartment being provided with a discharge opening, and nipples removably mounted in the respective discharge openings, said nipples projecting radially beyond the outer surface of the rim.



2,613,643
MECHANICAL PENCIL
Carl Merryman, Melrose Park, Ill., assignor to Dur-O-Lite Pencil Company, Melrose Park, Ill., a corporation of Delaware
Application February 23, 1950, Serial No. 145,809
3 Claims. (Cl. 120—18)

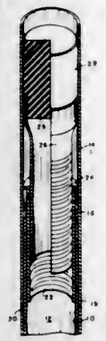


1. In a mechanical pencil comprising a barrel section, a tip section, a lead guide tube secured in the tip section, a lead advancing plunger threaded into the lead guide tube and extending into the barrel section, a nose member fitted into the lower portion of the barrel section, said nose member having a central cylindrical bore extending therethrough, an actuating tube having an intermediate portion of circular cross-section fitted tightly into the cylindrical bore and extending for a portion of the length of said bore, the actuating tube having a non-circular upper portion, the lead advancing plunger having a deformed portion fitting slidably in the non-circular upper portion of the actuating tube and held against rotation thereby, the actuating tube having a longitudinally split lower portion of circular cross-section extending in the lower portion of the bore in the nose member and having a clearance therefrom, said lower portion terminating adjacent the lower end of the nose member and resiliently gripping the upper portion of the lead guide tube which is fitted therein.

2,613,644
ERASER AND CAP ASSEMBLY FOR PENCILS
Louis H. Hansen, San Bruno, Calif.
Application October 23, 1950, Serial No. 191,650
3 Claims. (Cl. 120—36)

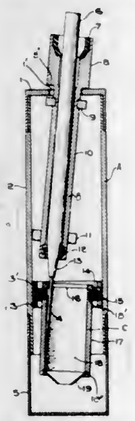
1. In combination with the end of a cylindrical pencil barrel, an eraser sleeve telescoping over the barrel and projecting beyond the barrel end, an anchor sleeve removably anchored inside the barrel end, an eraser carrier tube threaded into

the anchor sleeve, and an eraser secured to the carrier tube and engaging the internal surface



of the eraser sleeve for rotation therewith and axial movement relative thereto.

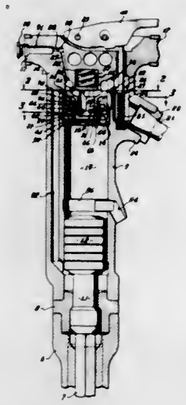
2,613,645
PENCIL POINT SHARPENER
Daniel Wellmann von Kameniczky, Elmhurst, N. Y.
Application December 4, 1950, Serial No. 199,058
8 Claims. (Cl. 120—91)



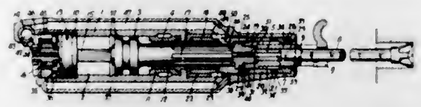
1. A pencil lead sharpener comprising a support having a top portion with a guide opening therein, a pencil socket carried by the top portion and suspended downwardly through the guide opening, said pencil socket loosely fitting said guide opening to permit free tilting and rotary movement thereof, said socket being open at its lower end through which the lead end of the pencil may be projected, pencil-receiving means on the lower end of the socket for loosely supporting the lead end of the pencil for free rotation with respect to the socket and an abrasive surface carried by said support for engagement by the pencil lead, whereby as the said socket is tilted and rotated the pencil is free to rotate within said socket and to roll over said abrasive surface.

2,613,646
VALVE MECHANISM FOR PNEUMATIC TOOLS
Hilmer A. Gillerstrom, Arcadia, Calif., assignor to Independent Pneumatic Tool Co., Chicago, Ill., a corporation of Delaware
Application March 25, 1949, Serial No. 83,339
5 Claims. (Cl. 121—29)

1. In a valve mechanism, a casing forming a central pressure chamber connected to a source of fluid under pressure and formed with laterally opening ports, a valve chest encircling said central pressure chamber in spaced relationship interiorly contoured to form an intermediate pressure chamber and upper and lower pressure chambers at the sides thereof, said chest being spaced from said casing to form ports leading from the exterior into said upper and lower chambers, and a sleeve valve slidably positioned between said casing and said chest for movement between sealing positions with respect to said ports and cooperating with said chest in forming said intermediate, upper and lower pressure chambers, said valve being formed with lateral ducts connecting said laterally opening ports of said central pressure chamber with said intermediate pressure chamber and being exteriorly contoured as to provide between itself and said chest restricted openings connecting said intermediate pressure chamber with said upper and lower chambers, said openings being of different sizes whereby fluid under pressure in said intermediate pressure chamber flows more freely into the chamber connected by the larger opening to effect the displacement of said valve to open the port leading into that chamber.

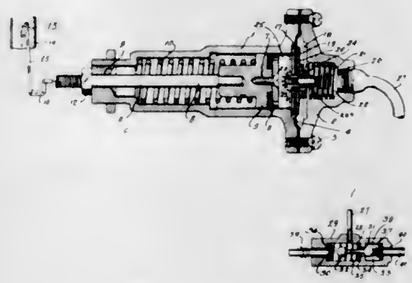


2,613,647
ROCK DRILL
John C. Curtis, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application September 8, 1947, Serial No. 772,858
14 Claims. (Cl. 121—32)



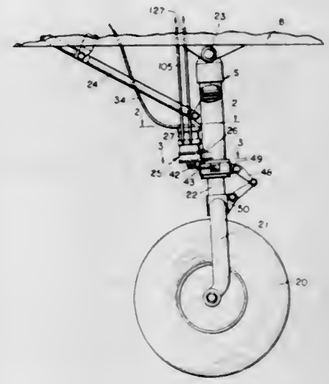
1. In a rock drill, a tappet and chuck construction comprising a reciprocable tappet for transmitting impact blows to the shank of a reciprocable drill steel, and a reciprocable chuck bushing axially aligned with said tappet for receiving and reciprocably supporting the steel shank, said chuck embodying means for mounting said tappet and said bushing for free reciprocatory movement both relative to one another and in unison with respect to said mounting means, and said tappet and said chuck bushing having contacting portions in cooperating guiding relation for maintaining the same in axial alignment during such movements thereof, said tappet having a forwardly facing impact surface in adjacency to said cooperating guiding portions of said tappet and said bushing whereby said tappet is firmly guided by said bushing at the point of delivery of impact blows to the steel shank.

2,613,648
THROTTLE CONTROL DEVICE
Edward D. Johnson, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application April 23, 1947, Serial No. 743,353
5 Claims. (Cl. 121—38)



1. A control device comprising a cylinder; a piston in said cylinder forming a chamber in one end thereof; a flexible diaphragm engageable with and forming a closure for said cylinder; a cap secured to said cylinder, the interposed flexible diaphragm being engageable with and forming a chamber in the cap; a valve assembly disposed between said chambers for allowing pressure fluid to rapidly pass from said cap chamber to the chamber in said cylinder and having an orifice therein for causing slow return of pressure fluid between the chamber in said cylinder and said cap chamber; a biasing spring for positioning said piston adjacent said diaphragm; a second biasing spring for displacing said diaphragm to a position adjacent the end of said cylinder; a source of pressure fluid; a conduit for placing said source in communication with said cap chamber; and an alternately operable inlet and exhaust valve mechanism disposed in said conduit for controlling the flow of pressure fluid from said source to said cap chamber, and subsequently to said chamber in said cylinder through said valve assembly for moving said piston to compress and store energy in said first mentioned biasing spring, said combined inlet and exhaust valve mechanism being operable under predetermined conditions for releasing the pressure fluid in said second mentioned chamber, thereby allowing said diaphragm to be displaced from adjacent the end of said cylinder against the force of said second biasing spring thus tending to increase the volume of and diminish the pressure in the chamber in said cylinder thereby releasing the energy stored in the compressed spring and allowing rapid movement of said piston toward said diaphragm to restore the pressure and volume, and a slow leak-off of pressure fluid from said cylinder chamber through said orifice and said valve mechanism to allow said piston and said diaphragm to slowly assume their original positions.

2,613,649
STEERING MOTOR FOR AIRPLANE LANDING WHEELS
Henry S. Diebel, Downey, Calif., assignor to G. G. Bakewell, Pasadena, Calif.
Application October 22, 1948, Serial No. 55,904
7 Claims. (Cl. 121—41)

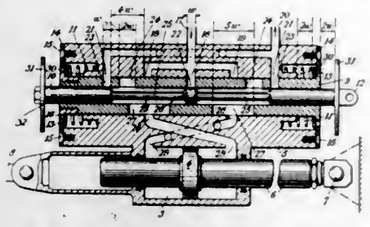


1. In a steering motor means for castered airplane landing wheels, a body adapted to be mounted on a strut upon which said castered wheel is mounted; a rotary piston and cylinder means arranged vertically in said body; a rotor for said rotary piston and cylinder means having upper and lower axial extensions mounted in bearings in said body, and having two diametrically opposed rotary piston vanes attached thereto, said rotor having an axial bore and radial holes connecting said axial bore and the working chambers on both sides of both vanes; a valve shaft adapted to be mounted for turning in the axial bore of said rotor, said shaft having pressure and relief conduits connecting at times with the radial holes in said rotor; said rotor radial holes and said valve shaft conduits being disposed to cause turning of said rotor to the left or to the right when hydraulic pressure liquid is admitted on one side or the other of said vanes after hydraulic liquid on the opposite sides of said vanes is released, when said valve shaft is turned to the right or left relative to said rotor; means for turning said valve shaft; and hydraulic dampening means for said steering motor said means being hydraulically connected to said relief conduits and adapted to operate under the pressure conditions of said relief conduits.

2,613,650
HYDRAULIC SERVOMOTOR
Lawrence Farnell Mott, Walton, Stone, England, assignor to H. M. Hobson Limited, London, England, a company of Great Britain
Application May 27, 1950, Serial No. 164,760
In Great Britain June 10, 1949
5 Claims. (Cl. 121—41)

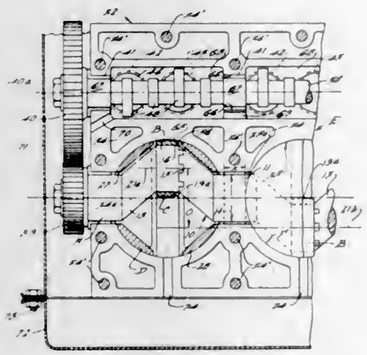
1. In a hydraulic servomotor, a control valve assembly comprising a valve housing, a sliding piston valve, an input member coupled to the piston valve, a ported sleeve surrounding the valve and normally held by springs in a central position, in relation to the housing, pressure and exhaust connections to the housing, and a pair of outlets from the housing to the servomotor, the sleeve having a pair of normally operative ports through which, on sliding movement of the piston valve in the sleeve in either direction

from a neutral position, alternative pressure and exhaust connections are established to the outlets according to the direction of movement of the piston valve and also a pair of emergency and normally inoperative ports, said sleeve being movable against its springs, in the event of valve seizure and by effort applied to the input mem-



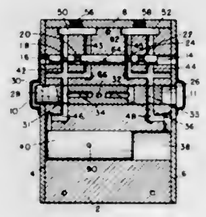
ber, in the direction opposite to that in which the piston valve has been displaced, to position to render said normally operative ports ineffective and to render said emergency ports effective to establish, in accordance with the direction of movement of the sleeve, alternative pressure and exhaust connections to the outlets.

2,613,651
ENGINE
Alexander G. Herreshoff, Grosse Pointe, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 24, 1948, Serial No. 16,801
2 Claims. (Cl. 121—120)



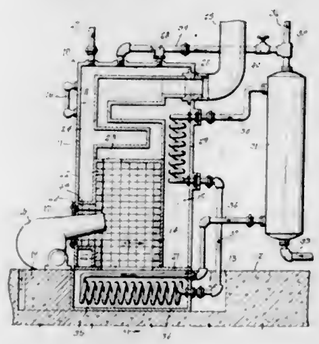
1. A double acting engine comprising a cylinder block with a piston bore therethrough, a crankshaft formed of interconnected sections journaled in said block and extending transversely of said bore intermediate the ends thereof, said crankshaft having journal bearing portions at opposite sides of said bore extending at right angles to the axis of the piston bore and a crank located within said bore between said journal bearing portions of such size and shape as to be continuously positioned within said bore during crankshaft rotation, the diameter of the bore being approximately 2.5 times the diameter of the crankshaft bearing portions, a double ended piston mountel in said bore and pierced by said crankshaft intermediate the ends thereof, said piston having an interiorly disposed slideway, a unitary bearing block rotatably journaled on the crank and slidably connected to the piston slideway, said piston slideway extending transversely of the piston at right angles to the bore axis, said bearing block being of a length longitudinally of the slideway of not less than 1.25 times the crank diameter, said bearing block being shaped such that the sliding bearing surfaces thereof remain continuously within said bore during crankshaft rotation, and said crank being of such shape that the ratio of the diameter of the piston bore to the length of the piston stroke is approximately 2 to 1.

2,613,652
PRESSURE OPERATED RECIPROCATING VALVE
Lynn J. Ziegelmeyer, North Hollywood, Calif.
Application January 6, 1947, Serial No. 720,374
5 Claims. (Cl. 121—158)



1. In a fluid pressure valve mechanism; means, including a pair of reciprocable valve members operable between limiting positions, for connecting respectively the pressure spaces of a fluid pressure motor, said motor including a movable power element separating said spaces, with a fluid pressure inlet and a fluid pressure outlet, said valve members in one of said positions serving to connect one of said spaces with said inlet and the other space with said outlet and in the other of said positions to connect said one space with said outlet and said other space with said inlet, latch means for releasably retaining said valve members in either of said positions, a member movable in response to a predetermined pressure rise in the space connected with said inlet, means operated by said member upon a predetermined movement for releasing said latch and causing movement of said valve members from one position to the other position.

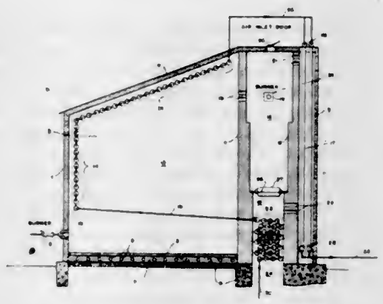
2,613,653
FUEL SAVING FURNACE
Samuel Wald, Bronx, N. Y.
Application August 20, 1951, Serial No. 242,619
4 Claims. (Cl. 122—20)



1. A heating system comprising a furnace having a fire box surrounded by a spaced housing

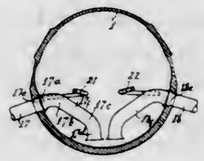
for containing boiler water, said fire box opening at its bottom, an ashpit below said furnace, a casing mounted within said ashpit, a water heating coil mounted within said spaced housing, a hot water tank positioned along side of said furnace and connected at its bottom end to a source of cold water to be heated and having an exit pipe at its top end for conveying heated water to points where it is to be consumed, a pre-heating coil mounted within said casing below the open bottom of said fire box, a pipe connecting the bottom of said tank to the entrance end of said pre-heating coil, a pipe connecting the discharge end of said pre-heating coil to the entrance end of said first-mentioned coil, and a pipe connecting the exit end of said first-mentioned coil to discharge the heated water back into the top of said tank.

2,613,654
HEATING OF FLUIDS
Harold A. Becker, La Grange, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 30, 1950, Serial No. 171,518
4 Claims. (Cl. 122—240)



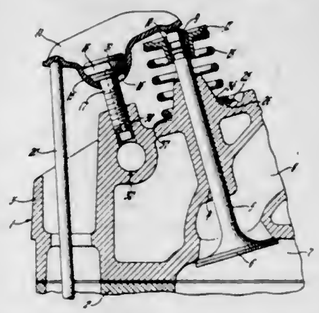
1. A heater for fluids, comprising, a combustion and radiant heating section defined by a side wall, end walls, a partitioning wall, a roof and a floor, burner means for said radiant heating section, a plurality of tubular fluid conduits disposed in said radiant heating section, a smaller elongated intermediate heating section defined by said end walls, said partitioning wall and a second partitioning wall extending parallel to the latter, a bank of tubular fluid conduits extending longitudinally within the lower portion of said intermediate heating section, additional burner means connecting with the upper portion of the last said heating section, gas passageways extending through the upper portion of first said partitioning wall, flue gas outlet means extending from the lower portion of said intermediate heating section below said bank of tubes, whereby the latter receive convection heating from flue gases passing therethrough, a narrow vertically disposed convection heating section defined by the second mentioned partitioning wall and a second side wall of said heater, gas passageways through both the upper and lower portions of said second mentioned partitioning wall above said bank of conduits and said flue gas outlet means, providing thereby flue gas circulation from said intermediate section through said narrow convection heating zone and back to the intermediate section, and a plurality of vertical fluid conduits extending from the upper portion to the lower portion of said narrow convection heating section.

2,613,655
ANTICAVITATION DEVICE FOR REMOVING BOILING LIQUIDS FROM STEAM AND WATER DRUMS
Raymond François Maurice Waeselynck, Indret, par Basse-Indre, France, assignor of one-half to Societe Rateau (Societe Anonyme), Paris, France, a company of France
Application October 23, 1945, Serial No. 624,037
In France April 13, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 13, 1963
4 Claims. (Cl. 122—406)



1. The combination of a vapor-and-liquid boiler body for containing a liquid to be heated, an aperture provided in the wall of said boiler body through which liquid contained in the boiler body may be withdrawn, an external downcomer communicating with said aperture for receiving liquid withdrawn through said aperture, a steam trap chamber formed within said boiler body, said chamber having three openings therein, one of which is said aperture, the second of said openings being adjacent to the bottom of said boiler body and beneath the level of the liquid contained in said boiler body, a portion of said chamber extending upwardly to a point above both said aperture and said second opening, and means extending through said third opening and positioned in the said upwardly extending portion of said chamber for cooling the liquid which enters said chamber, whereby vapor in the liquid entering said chamber is condensed and liquid only is withdrawn through said aperture.

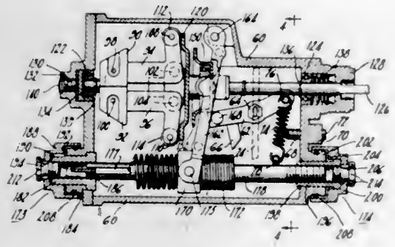
2,613,656
BELLEVILLE ROTATOR AND SPRING SURGE DAMPER
Clayton B. Leach, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 23, 1950, Serial No. 145,745
8 Claims. (Cl. 123—90)



1. In combination with a poppet valve mounted for reciprocation and rotation, valve operating means, valve returning and rotating means including a first spring having one end operatively fixed to the valve and tending to rotate in alternate directions relative to its opposite end as the spring contracts and expands with valve recip-

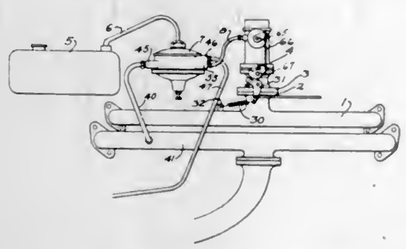
rocation, a second spring in series with the first spring and rotatable with said opposite end, a stationary member providing a normally oiled abutment surface for the second spring, said second spring having a surface movable between positions of divergent and parallel relation with said abutment surface in response to increased loading of the springs during which movement oil temporarily trapped between said surfaces releases said second spring for rotation.

2,613,657
GOVERNOR
Robert W. Sloane, Detroit, Michael J. Thomas, Birmingham, and Guy C. Fricke, Pleasantridge, Mich., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 25, 1947, Serial No. 737,148
28 Claims. (Cl. 123—108)



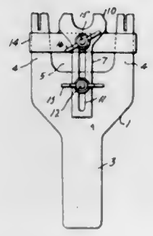
1. In a speed responsive governor for controlling a valve, the combination of an element adapted to be operatively connected to the valve, yieldable means connected to said element for urging said element in the valve opening direction, a rotatable shaft, a plurality of centrifugal weights, levers pivoted on said shaft for supporting said weights, a member adapted to be moved by said levers, and a lever pivoted at one end and spring loaded at the other end for yieldably opposing the movement of said member by said weight levers, said spring loaded lever being operatively connected to said element to urge said element in the valve closing direction.

2,613,658
CHARGE FORMING DEVICE
Irven E. Coffey, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application January 15, 1946, Serial No. 641,207
4 Claims. (Cl. 123—133)



1. In a gas carburetor, a mixture conduit, a gas admission valve therefor, a manually operable throttle in said conduit, a restriction in said conduit mounted to be shifted in response to change of rate of fluid flow therein, a connection between said restriction and said gas valve, and a lost motion mechanical connection between said throttle and said gas valve for causing closing of said gas valve when said throttle valve is closed while permitting said throttle valve to be moved to at least partially open position without opening said gas valve.

2,613,659
ARROW ADAPTER FOR SLINGSHOTS
Alton W. Hutson, Richmond, Calif.
Application October 13, 1950, Serial No. 189,935
7 Claims. (Cl. 124—20)



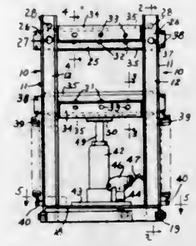
1. An arrow adapter for a sling shot frame having a body section and spaced legs projecting therefrom, the adapter comprising an elongated stem having a recess on one end thereof shaped to form an arrow rest and having a longitudinal slot therein, and means extending through the slot for securing the stem upon the side of the body section with freedom of adjustability to position the arrow rest with respect to the legs, with a band fixed on the legs and means for securing the stem upon the band.

2,613,660
GLASS FIBER-REINFORCED ARCHERY BOW
Frederick B. Bear, Detroit, Mich., assignor to Bear Archery Company, Grayling, Mich., a corporation of Michigan
Application February 15, 1946, Serial No. 647,853
7 Claims. (Cl. 124—23)



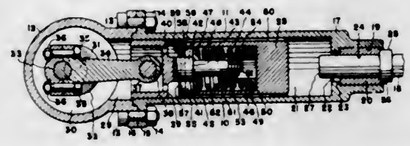
1. An archery bow having an elongated body and a layer adhesively secured to the belly side of said body comprising flexible glass extending for a substantial portion of the length of said bow.

2,613,661
MASONRY CUTTER
Russell C. Huber, Downey, Calif.
Application February 16, 1950, Serial No. 144,549
7 Claims. (Cl. 125—23)



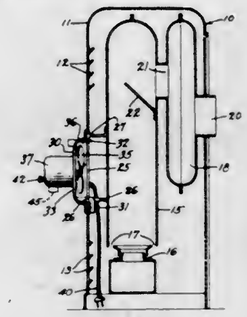
1. A masonry cutting device, comprising: a pair of guide means in laterally spaced relation, each guide means comprising a pair of upright channel members having their closed sides facing each other; means spacing said channel members apart to provide guide openings extending longitudinally of said guide means; base means comprising a pair of angle members, one at each side of the guide means adjacent the lower ends thereof and secured thereto, each of said angle members having one side engaging the adjacent channel members and the other side arranged horizontally and extending outwardly from the upper edge of the respective sides engaging the channel members of the guide means; a fixed blade having end portions secured between the channel members of the respective guide means, said blade being located in upwardly spaced relation to the base means; movable blade means having portions adjacent the ends thereof slidable in the guide openings toward and away from said fixed blade, and means limiting movement of said movable blade means longitudinally thereof; a manually operable jack on the base means and having an operating member for applying operating force to the movable blade means; and spring means for exerting yielding force on said movable blade means urging said blade means away from the fixed blade.

2,613,662
ROTARY DRIVEN PERCUSSIVE TOOL
Harold C. Reynolds, Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application March 21, 1950, Serial No. 151,008
10 Claims. (Cl. 125—33)



1. A percussive tool comprising a casing having a chamber, a reciprocable member in the chamber, a working implement in the casing, a reciprocable piston in the chamber for striking the working implement actuated by said member and capable of independent forward movement with respect thereto, a resilient member for causing the piston to so move forwardly to strike the working implement, and a retainer for disengaging the resilient member from the piston before the piston strikes the working implement.

2,613,663
SPACE HEATER AND AIR CIRCULATING ACCESSORY THEREFOR
George C. Mitacek, San Francisco, and Charles T. Hammons, Berkeley, Calif., assignors to Spark Stove Co., Inc., Oakland, Calif., a corporation of California
Application January 23, 1950, Serial No. 140,114
3 Claims. (Cl. 126—110)

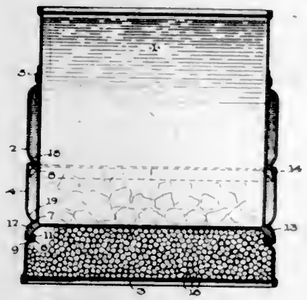


1. An air circulating accessory adapted for insertion in an opening in the vertical side wall of a heater housing, comprising a generally rectangular, perforate, generally vertical frame having a generally horizontal lower edge; projecting pivot members extending out beyond the rear of said frame and then perpendicularly downward from near said lower horizontal edge and extending down beyond said lower horizontal edge, for engaging said housing when said frame is installed, the rear normally vertical edges of said pivot members being adapted for abutting a horizontal portion of said housing when said frame is swung outwardly on said members about an axis parallel to and adjacent to said frame's lower horizontal edge at a position when said rear edge is generally horizontal, the front edge of said pivot members being adapted to engage the rear face of the vertical wall of the housing when said frame is vertical, these engagements by said pivot members being at two different limiting positions 90° apart, so as to limit the movement of said frame between a vertical closed position and a generally horizontal open position; releasable latch means on said frame for engaging said housing when said frame is in its upright position; an electric motor mounted in said frame with its shaft extending inside said housing when the frame is upright in said opening; a bladed fan mounted on said shaft for rotation thereby; an electric circuit for operating said fan motor; a manual switch for opening and closing said circuit so that said motor may be turned on and off; and a mercury switch on said frame in series with said manual switch and adapted to move with said frame so as to close said circuit when said frame is in upright position and to open said circuit whenever said frame is swung outwardly.

2,613,664
SELF-HEATING CONTAINER HAVING HERMETIC SEALING MEANS
Eugene J. Rivoche, Washington, D. C.
Application November 3, 1950, Serial No. 193,866
8 Claims. (Cl. 126—263)

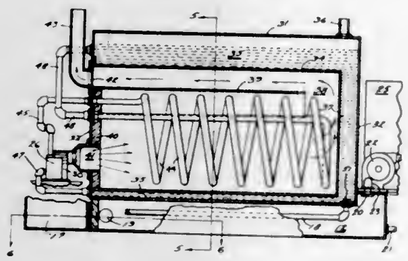
1. A self-heating container comprising an inner container for food, an outer container having a bottom and a side wall in which said food container is mounted, the side wall of the outer container having an inwardly-extending periph-

eral extension, the inner container being supported by said extension, a water-tight seal between the inner container and said extension,



and material which on reaction with water liberates heat between the bottom of the food container and the bottom of the outer container.

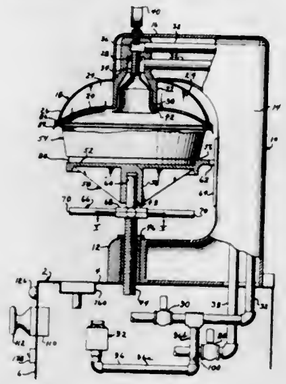
2,613,665
APPARATUS FOR HEATING AND HANDLING BITUMINOUS MATERIALS
William J. Miller, Youngstown, Ohio, assignor to Hy-Way Machinery, Incorporated, Youngstown, Ohio, a corporation of Ohio
Application April 15, 1950, Serial No. 156,060
7 Claims. (Cl. 126—343.5)



1. Apparatus for heating and handling asphaltic material comprising a first container for said material, a secondary container for a liquid heating medium, means for heating the said liquid heating medium in the said secondary container comprising a combustion chamber having a heating coil located therein, the said heating coil communicating with the said secondary container at spaced locations, means for heating said asphaltic material in the said first container, said means comprising a secondary heating coil in the first named container in communication with the secondary container, pump means for circulating the said liquid heating medium through said coils, and secondary pump means for moving said asphaltic material to and from said secondary container.

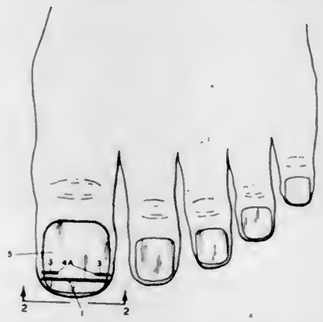
2,613,666
HOTEL TYPE PRESSURE COOKER
Jacob L. Shroyer, Oak Park, Ill.
Application April 8, 1946, Serial No. 660,576
9 Claims. (Cl. 126—379)

1. A pressure cooker comprising in combination a frame, a fixed casing supported on said frame, a movable casing mounted on said frame independently of said fixed casing for linear movement relative to said fixed casing, means for linearly moving said movable casing into abutting, sealing relation with said fixed casing, whereby said casings define a sealed chamber adapted to contain food articles to be cooked,



said means including a friction clutch for preventing additional sealing force between said abutted casings after a seal has been provided therebetween and means for supplying steam to said chamber.

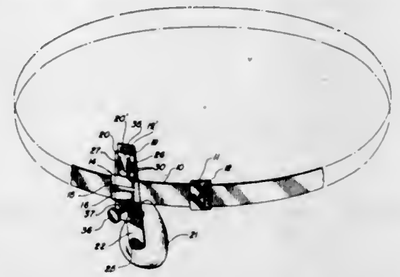
2,613,667
TOENAIL CORRECTING DEVICE
Russell M. Stanley, Lebanon, Oreg.
Application August 8, 1951, Serial No. 240,845
2 Claims. (Cl. 128—81)



1. An article to correct ingrowing toe nails, comprising a resilient piece of wire bent to form a central slightly arched portion to straddle a toe nail, the end portions of the wire being formed in U-bends to fit around the side edges of and under the nail, the opposite terminals of the U bends being bent upwardly and then toward each other to engage the top of the nail, whereby the resilient arched portion pulls upwardly on the U bends to lift the edges of the nail.

2,613,668
TRUSS
David E. Mandell, New York, N. Y., assignor to Bertram Herman Mandell, Elmhurst, N. Y.
Application May 1, 1948, Serial No. 24,640
5 Claims. (Cl. 128—108)

4. A truss comprising a belt, a carriage fastened to said belt and adapted to be longitudinally displaced along the length of said belt, a rider supported by said carriage member and adapted to be vertically displaced relative thereto, a supporting member hinged to said rider, a truss pad connected to an end of said supporting



member, and a screw threaded through an end of said rider, said screw having an end bearing on said supporting member.

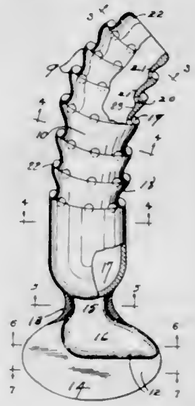
2,613,669
TRUSS PAD
Rudolph E. Haesly, Davenport, Iowa
Application July 24, 1950, Serial No. 175,541
18 Claims. (Cl. 128—119)



1. An article of the class described, comprising: a circular plate of relatively stiff material presenting obverse and reverse faces and having a concavo-convex crown rising from its obverse face so that the crown is bordered by a substantially radial flange; the junction of said flange and the base of the crown lying substantially uniformly on a circle except for a portion that lies substantially on a chord of such circle; the position of the crown on the plate being such that the radial extent of the flange is substantially uniform except at said chord portion whereat it is appreciably greater to provide a substantial base area; the shape of the crown being such that it rises abruptly as a relatively steep wall from said base area to a rounded peak and slopes thence back as a gradual ramp toward the circular portion of the junction of the flange with the base of the crown; means on the reverse face of the base area providing a mounting element; a spring lying generally in a plane parallel to the reverse face of the radial flange and anchored to said mounting element and extending to a zone substantially coincident with the center of the concavity of the crown at said reverse face; and a second mounting element secured to the spring in said zone and spaced from the plate so as to be normally out of contact with the plate.

2,613,670
SANITARY VAGINAL APPLIANCE
Edward Sokolik, New Brighton, Minn.
Application April 19, 1947, Serial No. 742,520
7 Claims. (Cl. 128—127)

1. In a catamenial and therapeutical pessary comprising a vaginal tubular barrel formed of resilient material such as rubber, extending between the sphincter and the cul-de-sac, and having, in the upper end thereof, an orifice adapted to induct the externum uteri and a reservoir for uterine exudations, formed in the lower portion of said barrel, said lower portion having the closed end thereof converged—an improved barrel comprising a series of integrally interconnected band portions of the barrel, formed in the portion of the barrel disposed above the reservoir, each band portion having a periphery of the shape of an S, inverted, and abbreviated in the upper loop thereof and consisting, commencing at the bottom of each band; of an annular horizontally disposed scavenging edge; an annular horizontally disposed gutter having substantially a concave base merging into the scavenging edge and adapted to gather therefrom exudations, not gathered by the orifice, and scavenged by said

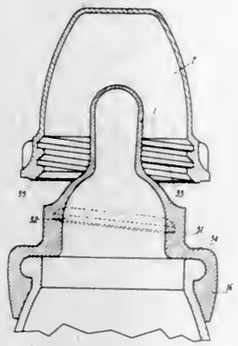


edge, said gutter having one or more drain ducts leading into the barrel; an annular web connecting the gutter with the scavenging edge of the next superposed band-portion, each annular web having an upper diameter exceeding the lower diameter thereof, forming the wall of the upper portion of the barrel, undulated, whereby accordion fashion resiliency of said upper portion, is attained, and the gathering of the exudations, facilitated, by virtue of the vaginal tissues being permitted to bulge in over the scavenging edge, and inherently urging the pessary upwardly by bearing against the downwardly and inwardly slanted periphery of each web, thereby contributing as a support for a displaced uterus and maintaining the externum uteri in the orifice of the barrel.

2,613,671
NIPPLE AND CAP CONSTRUCTION
Henri Victor Armand Bonin, Paris, France
Application April 19, 1949, Serial No. 88,432
In France April 23, 1948
1 Claim. (Cl. 128—252)

In a feeding-bottle assembly, in combination, a bottle with an outward flange at the mouth thereof, a nipple having an outward flange at its cylindrical base and provided with an increased radial thickness of rubber at its base, said nipple provided with a circumferential inturned flange defining an internal groove adapted to fit over said bottle mouth flange under substantial tension, a flat annular top seating surface on the base of said nipple above the level of the bottle mouth flange, a protecting cap for said nipple provided with inwardly threaded screw threads at the base thereof and cooperating interengaging means at the cylindrical base of said nipple

constituted by oppositely placed partial thread projections of said nipple which interengage with the inwardly threaded screw threads at the base of said cap to tightly seal the cap to



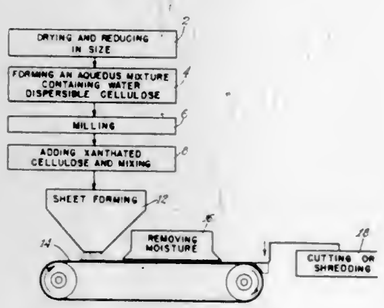
the nipple about the level of the bottle mouth flange and to provide a pressure against the outward flange of the nipple which is parallel to the axis of the bottle.

2,613,672

TOBACCO SHEET MATERIAL AND METHOD OF PRODUCING THE SAME

Paul A. Sartoretto, New York, and Joseph H. Carter, Jr., Forest Hills, N. Y., assignors to International Cigar Machinery Company, a corporation of New Jersey

Application July 11, 1946, Serial No. 682,859
9 Claims. (Cl. 131—15)



1. The method of reconstituting tobacco to form self-supporting continuous tobacco films or sheets for use in fabricating tobacco products for oral use, comprising reducing a quantity of tobacco to a finely divided state, mixing said tobacco with an aqueous fluid, adding a relatively small quantity of a water dispersible cellulose to said mixture, reducing said tobacco in said mixture to a dispersion containing colloidal tobacco and fine tobacco particles and soluble tobacco constituents, adding between five and ten percent by weight of said tobacco in said dispersion of xanthated cellulose to said dispersion, applying said dispersion to a film forming surface, and evaporating moisture from said material on said surface to produce substantially water impermeable films or sheets including substantially all of said soluble tobacco constituents with said tobacco suspended therein, said films or sheets retaining substantially all natural tobacco characteristics including color, taste and aroma.

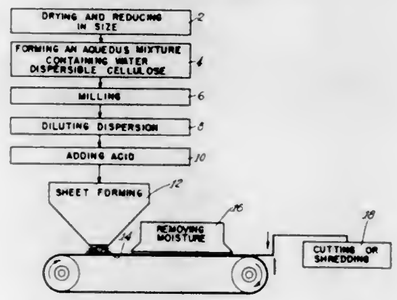
8. A reconstituted self-supporting continuous tobacco film containing finely divided tobacco and soluble tobacco constituents, and between five and ten percent by weight of regenerated cellulose admixed with said soluble constituents of said tobacco, said film being substantially water impermeable and retaining substantially all natural characteristics of tobacco including color, taste and aroma.

2,613,673

TOBACCO SHEET MATERIAL AND METHOD OF PRODUCING THE SAME

Paul A. Sartoretto, New York, and Joseph H. Carter, Jr., Forest Hills, N. Y., assignors to International Cigar Machinery Company, a corporation of New Jersey

Application July 11, 1946, Serial No. 682,860
21 Claims. (Cl. 131—15)



1. The method of reconstituting tobacco to form self-supporting continuous tobacco films or sheets for use in making tobacco products for oral use, comprising reducing a quantity of tobacco to a finely divided state, mixing said tobacco with an aqueous fluid, adding between 1 and 20% by weight of said tobacco of a water dispersible acid regeneratable cellulose to said mixture, reducing said tobacco in said mixture to a dispersion containing colloidal tobacco, adding additional aqueous fluid to said mixture to increase the fluidity thereof, adding a relatively small quantity of acid to said dispersion to regenerate the dispersed cellulose in said tobacco dispersion, applying said dispersion to a film forming surface, evaporating moisture from said material on said surface, and forming substantially water impermeable reconstituted tobacco films or sheets, said films or sheets having high wet strength and retaining substantially all natural tobacco characteristics including color, taste and aroma.

2,613,674

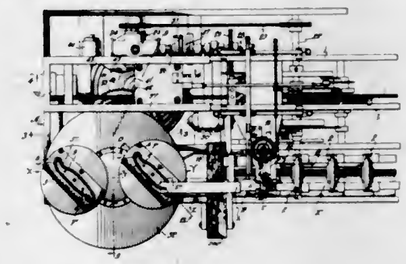
DOUBLE WRAPPING DIE MECHANISM FOR CIGAR WRAPPING MACHINES

William J. Giles, Belleville, N. J., assignor to Tobacco Machine Supply Company, Inc., Linden, N. J., a corporation of New Jersey

Application September 16, 1948, Serial No. 49,503
8 Claims. (Cl. 131—102)

1. In a cigar machine, the combination of a plurality of wrapper dies, a turntable rotatable about a vertical axis, means mounting said wrapper dies on vertical axes on said turntable for relative rotation of said turntable and said wrapper dies, means for rotating said turntable step-by-step to move said wrapper dies from a leaf-

applying station to a wrapping station, and means for maintaining said wrapper dies in the



same angular relation to an axial plane of said turntable during rotation of said turntable.

2,613,675

UNIVERSAL MOUTHPIECE FOR SMOKERS' PIPES

John R. Darbee, Clawson, Mich.

Application February 15, 1949, Serial No. 76,606
5 Claims. (Cl. 131—225)



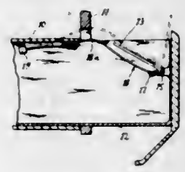
5. A universal mouthpiece for smokers' pipes comprising a tip having a longitudinal smoke passage, an adapter of resilient material mounted on and fastened securely to the forward end of the tip, said adapter having a longitudinal bore communicating with the smoke passage of the tip and being longitudinally tapered forwardly from the tip, and a sleeve frictionally engaging with said tip, said sleeve being longitudinally movable on the tip and projectible beyond the forward end of the tip so as to at least partially surround said adapter, said adapter being insertable into the shank portion of a pipe bowl so as to frictionally grip the same and said sleeve being movable on the tip and into abutting engagement with the free end face of the shank, said sleeve being held in such abutting relation by frictional engagement with the tip, said adapter and said sleeve mutually co-operating with the shank to hold the mouthpiece attached securely to the shank.

2,613,676

CIGARETTE HOLDER FOR AUTOMOBILE ASH TRAYS

David Stepkin, Bronx, N. Y.

Application September 30, 1950, Serial No. 187,780
10 Claims. (Cl. 131—235)



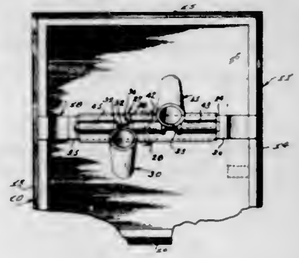
10. In an ash receiver adapted to be mounted in an automobile dash board, in combination, a housing fixed in said dash board, a receptacle received in said housing and displaceable relative thereto, operating means in said receptacle including a cam, a portion of said means being resilient to urge said cam beyond said receptacle into an operative position, means including said housing repressing said cam into an inoperative position within said receptacle upon the latter being completely retracted inside said housing, and a holder member adapted to retain a cigarette and linked to said operating means, said holder member projecting beyond said receptacle upon said cam occupying said operative position and being withdrawn inside said receptacle upon said cam occupying said inoperative position.

2,613,677

DEVICE FOR RECEIVING AND EXTINGUISHING LIGHTED CIGARETTES

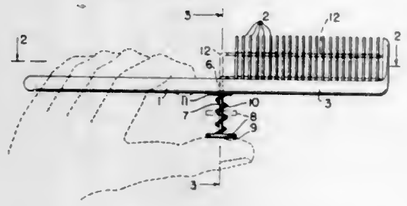
Bernard S. Hawxhurst, Zanesville, Ohio

Application November 28, 1950, Serial No. 197,859
2 Claims. (Cl. 131—235)



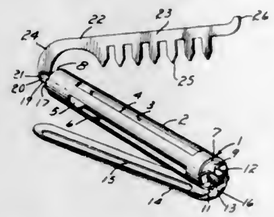
2. A device for receiving and extinguishing cigarettes and the like comprising an upstanding tray having an open top, a horizontally disposed handle traversing the center of and spaced above the open top of said tray and supported on the open top of said tray, a base piece having upwardly projecting sides inclined toward each other positioned on said handle and carried thereby for attachment of cigarette extinguishing cups thereto, a first cigarette extinguishing cup disposed on one side of and spaced radially inwardly of one end of said base piece and mounted on said base piece for limited rocking movement about a horizontal axis from a normal upwardly inclined cigarette receiving position abutting against one of the sides of said base piece to a downwardly inclined cigarette dumping position abutting against the other of the sides of said base piece and facing the interior of said tray, said rocking movement being limited by the abutment of said cup with the other of the sides of said base piece, and a second cigarette extinguishing cup disposed on the other side of and spaced radially inwardly of the other end of said base piece and mounted on said base piece for limited rocking movement about a horizontal axis from a normal upstanding inclined cigarette receiving position abutting against the other of the sides of said base piece to a downwardly inclined cigarette dumping position abutting against one of the sides of said base piece and facing the interior of said tray, said second cup being oppositely spaced from said first cup, each of said cigarette receiving cups being provided with an elongated cigarette receiving bore tapering inwardly from the open mouth of said cup toward the bottom thereof, whereby to dispose of extinguished butts on opposite sides of the handle to provide an even distribution thereof on the tray bottom.

2,613,678
BARBER'S COMB
Henry E. Mandato, Goshen, N. Y.
Application September 20, 1950, Serial No. 185,767
3 Claims. (Cl. 132—11)



1. A hair cutting comb comprising, a base having tapered teeth projecting therefrom, said teeth being bent intermediate of their ends and extending angularly with respect to said base, a bar extending longitudinally of and in abutment with said teeth, said bar connected to said base and held normally against the base of said teeth by tension means, and movable over one side of said teeth against said tension means.

2,613,679
HAIR CURLER
Chester D. Vaughn, Woodward, Okla.
Application September 9, 1950, Serial No. 184,003
2 Claims. (Cl. 132—41)



1. A hair curler comprising, a tubular body for winding a strand of hair thereon to curl the same, a plurality of longitudinal slots in said tubular body, said slotted portions terminating short of the ends of said body, spaced ears secured to one end of said body, an arm pivoted to said ears on said body and being capable of lying substantially flat on said body for holding the end of a strand of hair while the hair is being wound around said body and said arm, said arm having a slot longitudinally thereof aligning with the slot in said body, a strap secured to the other end of said body, said strap having an opening at substantially the center thereof, a U-shaped bracket pivotally mounted in said opening, and a keeper mounted in said bracket, said keeper having a plurality of teeth for engaging through said strand of hair and into one of said slots in said body for holding the curler in said hair.

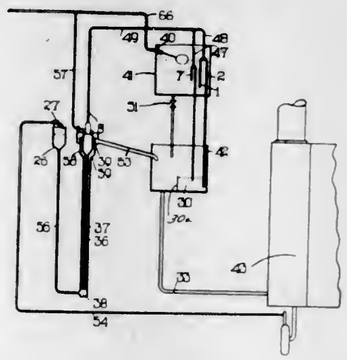
2,613,680
LOCKING BOBBY PIN
Joseph A. Rapisarda, Springfield, Mass.
Application December 2, 1950, Serial No. 198,821
2 Claims. (Cl. 132—50)

1. A normally open lockable hair pin comprising, an elongated strip of resilient metal bent upon itself intermediate its end to form a U to have a rear loop and normally spaced upper and lower arms extending therefrom in diverging relation and having free outer ends normally resisting movements towards one another, said strip being ribbon-like in cross section providing opposite flat faces to said arms, the flat faces of said upper arm being disposed in horizontal planes and a forward portion of said lower arm from a point disposed forwardly of said loop being twisted upon itself so that the flat faces thereof are disposed in vertical planes and an edge thereof underlies said upper arm, the outer end of said lower arm provided with a



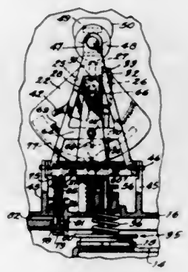
laterally and horizontally extending concavity terminating in a manually engageable extremity of said arm, and the outer end of said upper arm provided with a downwardly and vertically extending concavity terminating in a manually engageable extremity of said arm, all adapted and arranged whereby the extremity of said upper arm may be depressed against the resiliency of the structure to a point below the plane of the loop of the lower arm for slight movement horizontally beneath said loop and released so that said loops are interengaged.

2,613,681
DELIVERY OF LIQUIDS
Charles Cooper, Huddersfield, England, assignor to W. C. Holmes & Company Limited, Huddersfield, England, a British company
Application May 1, 1944, Serial No. 533,596
In Great Britain February 16, 1943
2 Claims. (Cl. 137—4)



1. A method of regulating the concentration of a solution, which comprises producing a suction effect in a conduit, balancing a column of the solution and a column of diluting liquid whereby the liquid level in said column of diluting liquid varies with the density of the solution, employing said column of diluting liquid directly to seal the conduit when the liquid level thereof is high and for admitting leakage air to the conduit when the liquid level thereof is low, causing the existing suction effect in the conduit to lift diluting liquid and produce a syphon flow thereof when said column liquid level is high and to effect a lesser lifting of said latter diluting liquid and therewith a cessation of the syphon flow when the column liquid level is low, and mixing the syphon flow of said latter diluting liquid with the solution.

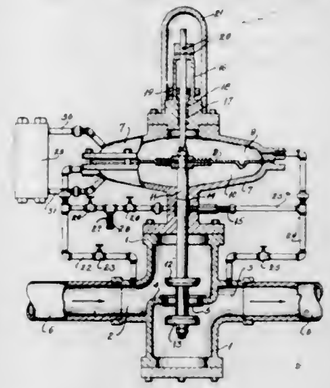
2,613,682
FLUID CONTROL VALVE
William A. Ray, Los Angeles, Calif., assignor to General Controls Co., a corporation
Original application May 20, 1941, Serial No. 394,338, issued as Patent No. 2,381,926, dated August 14, 1945, and reissued as Patent No. 23,077, January 11, 1949. Divided and this application June 29, 1945, Serial No. 602,362
4 Claims. (Cl. 137—66)



1. In a fluid control valve having a first and a second port: a first and a second closure means for the respective ones of said ports means, respectively, biasing said closure means to closed position; a main member for operating said closure means and having a first position wherein both of said closure means are unaffected by said main member; a first means, between said main member and said first closure means, arranged so that movement of the main member from its first to a second position effects opening of said first port; an auxiliary member; means biasing said auxiliary member to an inactive position; cam means connected for operation by movement of the main member for placing said auxiliary member in an active position only when the main member is substantially in its second position; means, responsive to a condition whose establishment is dependent upon the first port being open, for then releasably retaining the auxiliary member in said active position while said condition exists; and means conditioned by the auxiliary member to form, only while the auxiliary member is retained in said active position, an operating coupling, between the main member and said second closure means for opening movement of said second closure means on further movement of the main member from its second to a third position; said first means including means for keeping said first closure means open during said further movement and in the third position of the main member.

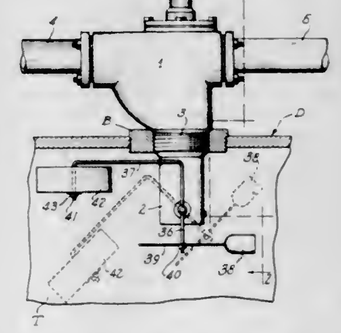
2,613,683
AUTOMATIC CUTOFF VALVE
Carl E. Baird, Louisiana, Mo., and Paul V. Mullins, Amarillo, Tex.
Application July 17, 1946, Serial No. 684,144
5 Claims. (Cl. 137—68)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An automatic cut-off valve comprising a casing having an inlet and an outlet, a valve for cutting off fluid flow between said inlet and outlet in either direction of fluid flow therethrough, a reversely operable diaphragm operatively connected to the valve and responsive to differential pressure between said inlet and outlet for closing said valve, a double acting relief valve communicating with opposite sides of the diaphragm, and a shear pin connection between said casing and said valve for rendering the latter inoperative by



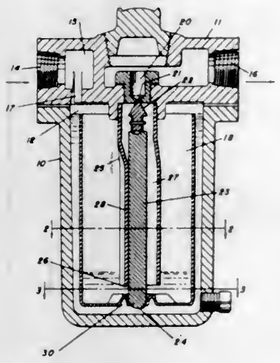
said diaphragm except at a differential pressure sufficient to shear said shear pin.

2,613,684
OIL ROUTING VALVE
Frank Guyton, Sperry, Okla.
Application October 20, 1948, Serial No. 55,554
1 Claim. (Cl. 137—121)



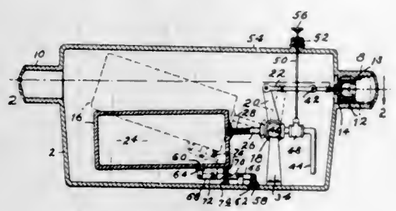
In an oil routing mechanism, a casing provided with an open bottom nozzle, there being an intake port and an outlet port in said casing, a valve seat arranged on the upper end of said nozzle, a vertically disposed rod reciprocably mounted in said casing, a horizontally disposed disc carried by said rod and mounted for movement into and out of engagement with said valve seat, a bonnet structure mounted on the upper end of said casing and provided with a bottom seat, a horizontally disposed supply valve mounted on said rod and mounted for movement into and out of engagement with said bottom seat, an accordion pleated collar interposed between said disc and supply valve, a tubular head arranged on said bonnet structure and connected to said casing, a lifting tube arranged in said head and connected to said rod, a handle connected to the upper end of said lifting tube, a trigger arranged in engagement with the lower end of said rod, a lever connected to said trigger for moving the latter, a glass float connected to one end of said lever, and a counterbalancing weight mounted on the other end of said lever.

2,613,685
STEAM TRAP
Errol L. Myers, Detroit, Mich., assignor to Howard O. Trerice, doing business as H. O. Trerice Company
Application April 15, 1948, Serial No. 21,252
4 Claims. (Cl. 137—190)



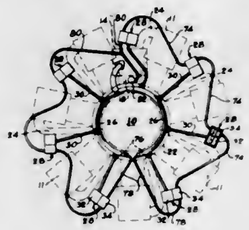
1. In a steam trap, the combination of a casing provided with a float chamber and with an intake and discharge port, a valve for closing said discharge port and comprising a tapered valve portion and an elongated valve stem, a bucket within said chamber and connected with the lower end of said valve stem, said bucket confining the liquid to a defined path as same is discharged, said bucket constructed to sink in said chamber when the liquid in said chamber overflows into the bucket and the level of the liquid in said bucket rises sufficiently to overcome the pressure and buoyancy of the bucket to thereby open said valve, a sleeve depending inside of said bucket and defining a discharge passage terminating at said discharge port and having an inlet adjacent the bottom of said bucket, the liquid in said bucket thereby flowing generally radially inward toward the sleeve inlet and said liquid between the bottom of the bucket and said casing flowing generally radially inwardly of the bucket when said bucket raises in said chamber, the bottom wall of said bucket formed with baffles extending radially outwardly from said valve stem and projecting upwardly from the bottom wall of the bucket and inwardly of the bucket and into the path of the liquid flowing toward said sleeve inlet to partially rotate the bucket and valve.

2,613,686
FLOAT OPERATED MEASURING VALVE
James C. Parson, Kansas City, Kans.
Application September 6, 1947, Serial No. 772,535
8 Claims. (Cl. 137—404)



5. A liquid measuring valve comprising a case having an inlet and an outlet adjacent the upper edge thereof, a valve for closing said inlet, a hollow float carried in said float for up and down movement, a mechanical linkage interconnecting said valve and said float in a manner such that said valve is opened as said float rises and closed as said float falls, manual means for raising said float whereby said valve is opened and liquid enters said case to buoy up said float, and a restricted passageway between said float and a point near the bottom of said case, whereby liquid is permitted to enter said float to cause said float to fall.

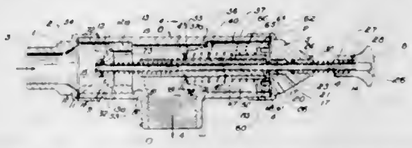
2,613,687
LIQUID DISTRIBUTING SYSTEM
Francis J. Wiegand, Ridgewood, William T. Stark, Pompton Lakes, and Mark R. Rowe, Teaneck, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Original application February 23, 1944, Serial No. 523,770, now Patent No. 2,430,264, dated November 4, 1947. Divided and this application October 7, 1947, Serial No. 778,418
6 Claims. (Cl. 137—608)



1. A fluid distributing system comprising a plurality of valve housings, each of said housings having a movable member dividing said housing into first and second chambers, each of said housings also having a fluid discharge opening communicating with said first chamber and having a valve connected to the associated movable member for controlling the associated discharge opening; a fluid manifold; first passageways connecting said manifold with each of said first chambers; means for supplying a fluid under pressure to said manifold for distribution therefrom through said passageways, through the first chambers and thence through the discharge openings of said chambers, the fluid pressure in each of said first chambers urging the associated movable member in a direction for opening its valve; means providing a source of fluid pressure less than the pressure of the fluid supplied to said manifold; and second passageways connecting said source of fluid pressure with each of said second chambers, the fluid pressure in each of said second chambers urging the associated movable member in a direction for closing its valve.

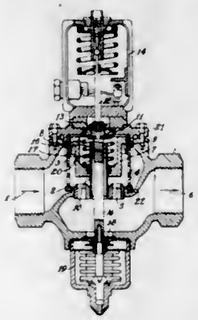
2,613,688
VALVE
Harold J. Knaggs, Sandusky, Ohio; Leah L. Knaggs, administratrix of said Harold J. Knaggs, deceased
Application June 6, 1946, Serial No. 674,825
3 Claims. (Cl. 137—666)

1. In a self closing valve, a power actuated main valve, a fluid motor for actuating said main valve, resilient means adapted to exhaust said motor after actuation of said valve, second resilient means tending to maintain said valve open during the exhausting of the motor, and a third resilient means opposed to said second resilient means adapted to close said main valve when



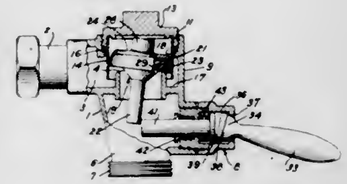
said motor has been exhausted a determinable amount.

2,613,689
PILOT-OPERATED VALVE
Mads Clausen and Christian Matthiesen, Nordborg, Denmark
Application March 3, 1948, Serial No. 12,813
In Denmark October 18, 1947
2 Claims. (Cl. 137—671)



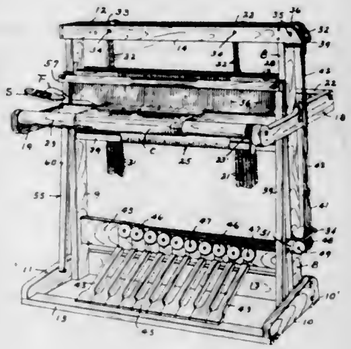
1. A valve of the character described, comprising a casing having an inlet chamber and an outlet chamber, a valve seat between said inlet and outlet chambers, a hollow open tube fixed in the center of said valve seat to open into said outlet chamber and extending perpendicularly from said valve seat into said inlet chamber, a cylinder in said inlet chamber co-axially surrounding said tube and mounted between said valve seat and the wall of the inlet chamber opposite said valve seat, said cylinder being provided with holes in the part of its wall nearest said valve seat, a hollow valve member open at one end and penetrated at its other end by said tube to be guided by the latter for sliding movement to and from sealing contact with said valve seat, spring means tending to press said valve member against said valve seat, said valve member being provided with a radially projecting annular flange portion adjacent its open end sealingly engaging the inner wall of said cylinder and with at least one aperture in its side wall connecting its interior with said inlet chamber, the open end of said tube inside said valve member being formed as an auxiliary valve seat, an auxiliary pilot valve cooperating with said seat, a control rod carrying said pilot valve and extending outwardly and penetrating the wall of said inlet chamber, a second control rod in alignment with and abutting the first and extending through said cylinder and outlet chamber penetrating the wall of the latter, both said control rods being guided for axial movement, control means on the outside of said casing comprising spring means acting on said first control rod tending to close said pilot valve, and automatic control means on the outside of said casing acting on said second rod in opposition to said last mentioned spring means.

2,613,690
FLUSH VALVE
Louis E. Deruette, San Francisco, Calif.
Application April 11, 1947, Serial No. 740,894
2 Claims. (Cl. 137—679)



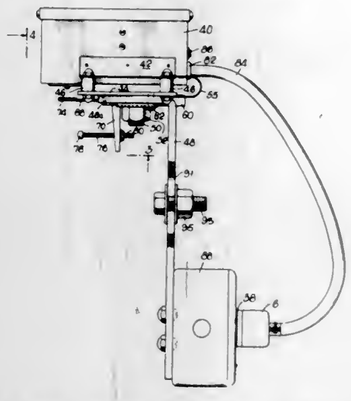
1. In a flush valve the combination with a valve body having an intake and an outlet and a valve seat between the intake and the outlet having an intake chamber around and above said valve seat, of a valve head seated on said valve seat, a stem extended from said valve head through said valve seat, a sleeve in said intake chamber around and extending below the level of said valve seat and in contact with the periphery of said valve, said valve being tiltable in said sleeve to allow passage of water through said valve seat, and a mechanism for tilting said valve at will, a packing ring on the outer periphery of said sleeve, and means to support and clamp said packing ring in said valve chamber for supporting said sleeve in position.

2,613,691
WEAVING LOOM
Fredrick J. Ahrens, Oakland, Calif.
Application November 10, 1947, Serial No. 784,983
7 Claims. (Cl. 139—33)



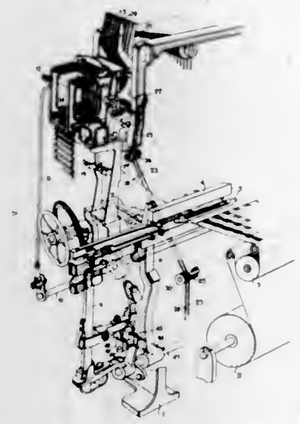
1. In a loom, a support frame defining a working space, a weaving frame disposed in said space and mounting warp threads and the woven product, harnesses cooperative with said weaving frame, harness-shifting pedals arranged for selective actuation, flexible pull lines connecting the harness-shifting pedals with the harnesses, said lines including intermediate tie sections arranged for variable interposed connection in the lines to selectively connect the pedals with the harnesses, and stop members on the frame cooperative with the connectors for the tie sections as a positioning means for a pedal or harness not in use.

2,613,692
TEXTILE DETECTING DEVICE
Wilmer C. Anderson, Greenwich, Conn., assignor to Deering Milliken Research Trust, Greenwich, Conn., a nonprofit trust of Maine
Application December 2, 1948, Serial No. 63,177
14 Claims. (Cl. 139—273)



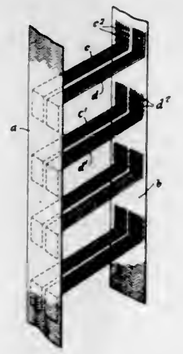
1. In a loom having a shuttle carrying a supply of weft, the combination comprising a light sensitive element, means actuated in response to a change in the illumination of said element for signifying weft depletion, a source of light for illuminating said element by reflection from the surface of the weft when the shuttle is in one position and means including a reflector effective to direct light from said source to said element except when the shuttle is in said one position for preventing actuation of said signifying means except when the shuttle is in said one position.

2,613,693
LOOM
Adolphus Jarvis, Thompson Township, Windham County, Conn., assignor to Grosvenor-Dale Company, Inc., Grosvenor-Dale, Thompson Township, Windham County, Conn., a corporation of Delaware
Application February 17, 1950, Serial No. 144,673
14 Claims. (Cl. 139—307)



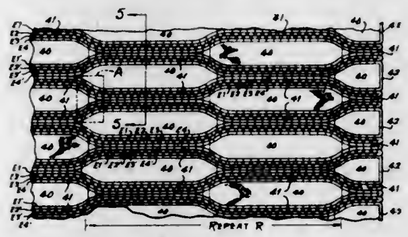
1. In a loom, a combination of a sand roll, a shuttle, a dobby chain, first means for driving said sand roll at a normal speed, second means for driving said sand roll at a different speed, means controlled by said dobby chain for disconnecting said sand roll from said second driving means and drivingly connecting said sand roll with said first means, and for alternatively disconnecting said sand roll from said first driving means and drivingly connecting said roll with said second means and means to operate the shuttle and other parts of the loom substantially without change of the speed and timing thereof.

2,613,694
WOVEN LADDER WEBBING
George Frederick French and Roger French, Manchester, England
Application November 1, 1950, Serial No. 193,360
In Great Britain November 3, 1949
2 Claims. (Cl. 139—384)



1. Ladder web comprising two body webs and two rows of side-by-side cross straps, each strap being of such length as to overlap longitudinally with, and be overlapped respectively by, the adjacent cross straps in the same row; alternate cross straps in each row being woven and side-by-side with unwoven warp threads forming a cross strap in the other row.

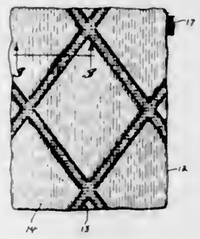
2,613,695
DISTORTION WEAVE FABRIC STRUCTURE
Ivar O. Moberg, Spray, N. C., assignor to Marshall Field and Company, Chicago, Ill., a corporation of Illinois
Application November 29, 1950, Serial No. 198,140
9 Claims. (Cl. 139—384)



1. An improved fabric including a ground fabric area having warpwise extending rows of spaced tightly woven areas between which loosely woven areas are disposed, the tightly woven areas in one row being off-set relative to the tightly woven areas in a next adjacent row so the loosely woven areas in the first-named row

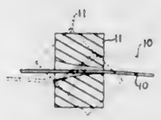
are disposed in weftwise alinement with the tightly woven areas of said next adjacent row, design effect filling yarns loosely interwoven at the juncture of the tightly woven and loosely woven areas in each row and extending weftwise of the fabric throughout as much of the width thereof as is embraced by the said rows of spaced tightly woven areas.

2,613,696
ACOUSTICAL CLOTH
John A. MacIntyre, Bristol, R. I.
Application November 1, 1948, Serial No. 57,677
2 Claims. (Cl. 139—418)



1. An acoustical cloth comprising a loosely woven cloth having a coarse filler of 20 threads to the inch and two layers of warp thread each 120 ends to the inch, the background of the front of said cloth being formed by the upper layer, the upper layer being of the desired background color and being woven with alternate threads four up and one down, and the lower layer being of a metallic color and being woven with alternate threads one up and nine down, said weave being modified to that said lower layer is woven with said upper layer to form a simulated metallic grille on the face of said cloth.

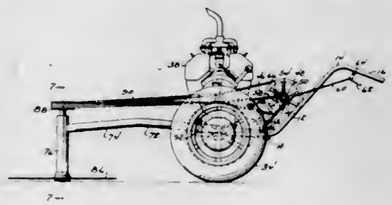
2,613,697
METHOD OF CURLING
Michael Fantell, West Orange, N. J.
Application May 3, 1946, Serial No. 667,195
2 Claims. (Cl. 140—71)



1. The method of curling a strand comprising passing a strand under tension through a hole through a die having sharply defined edges at both ends of the hole, positioning the hole in the die transversely to the path of the strand whereby the strand tightly and sharply bends at a material angle over each of the edges, and releasing the strand to curl.

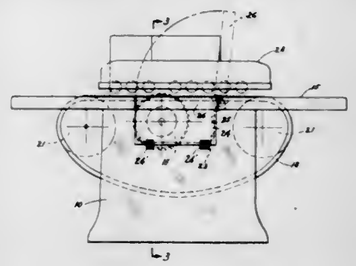
2,613,698
STUMP SAW ANGLING BEAM AND SELF-PROPELLING AND STEERING ATTACHMENT
Frank Gregson, Jonesboro, Ark.
Application September 26, 1946, Serial No. 699,388
1 Claim. (Cl. 143—43)

A device of the character described, comprising a wheeled frame, handles on said frame, a gasoline motor on said frame, drive connections from the motor to the wheels of said frame, manually operated means controlling said drive connection for the steering of said frame, by selectively engaging the drive connections to cause rotation of either of said wheels, a forwardly extending hollow beam on said frame, a housing at the end of said beam, an axle in said housing, a pulley on the top of said axle, belt drive connections from said pulley to said motor, a circular saw on the bottom of said axle, and means carried by said



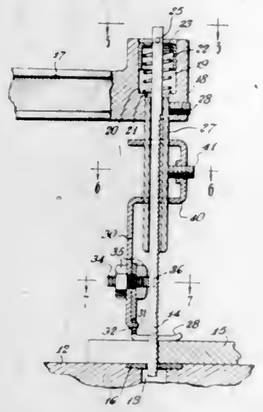
frame for rotating said beam to position said housing at an angle to the ground said means comprising a projection carried by the frame adapted to rotatably enter into and receive said beam, an internally threaded projection on the beam at right angles to said first projection, a locking screw carried by the projection on the beam and engaging said first projection to retain said beam and first projection in fixed relation to each other and a handle member engageable with the locking screw to rotate said beam after said screw has been loosened.

2,613,699
RIPSAW TABLE HAVING A HINGED SECTION
Gustave C. Dudek, Beloit, Wis., assignor to Yates-American Machine Company, Beloit, Wis., a corporation of Delaware
Application July 15, 1949, Serial No. 104,965
5 Claims. (Cl. 143—49



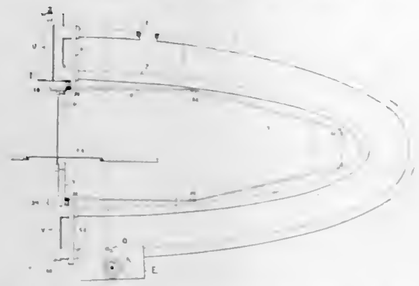
5. A saw table comprising a base, a rotatable saw blade mounted in said base and a work table mounted on the top of said base and extending on opposite sides of said blade, said work table having a relatively narrow longitudinally extending blade receiving aperture and a laterally extending connected aperture, said laterally extending aperture being of sufficient width to permit lateral movement of said saw blade and extending in lateral alignment with said saw blade to the longitudinal side margin of the table, and a swingable table section mounted in said laterally extending aperture which table section may be swung outwardly of said aperture to provide an unobstructed side passageway extending from the longitudinal side margin of the table to said saw blade.

2,613,700
JIG SAW BLADE MOUNTING
Elmer L. Hoffmann, Park Ridge, and Allen L. Atkins, Chicago, Ill.; said Hoffmann assignor to said Atkins
Application October 10, 1950, Serial No. 189,408
4 Claims. (Cl. 143—73)



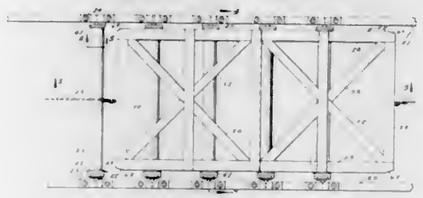
4. In combination with a reciprocating saw having a table and an arm arranged above said table, said arm having a socket in the end thereof, a coil spring disposed in said socket, mounting means secured to the blade of the saw having one end of said spring housed therein, said means being adapted to reciprocate with the blade whereby alternately to compress and release said spring, a guide tube secured to said arm, said tube communicating with and axially aligned with said socket and adapted to receive said blade therethrough and an adjustable guide foot for said blade removably mounted on said tube, comprising a bifurcated guide leg member having said blade passed through the bifurcations thereof, said member being pivotally mounted for adjustment on a horizontal axis above said table.

2,613,701
HYDRAULICALLY OPERATED JIG SAW
Albert F. Nathan, Plainfield, N. J.
Application October 2, 1946, Serial No. 700,708
6 Claims. (Cl. 143—74)



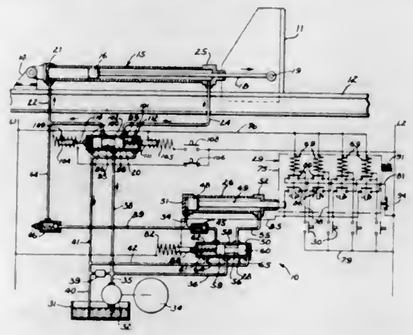
1. A scroll saw combining a pair of axially aligned cylinders having closed vis-a-vis ends; a piston in each cylinder having its rod projecting through the opposing end of its cylinder; a sawblade attached at its ends to the ends of said rods; a first conduit connecting the remote ends of said cylinders; a second conduit connecting the near ends of said cylinders, said cylinders and conduits being filled with oil and forming a closed circuit; a power-driven hydraulic oscillator in series with one of said conduits; zone-shifting valves in parallel with said oscillator for temporarily by-passing some oil past said oscillator to enable the zone of reciprocation of said piston rods to be shifted.

2,613,702
ADJUSTABLE ROLLERWAY FOR SAWMILL FEED CARRIAGES
William H. Munson, Callahan, Calif.
Application September 29, 1950, Serial No. 187,637
2 Claims. (Cl. 143—105)



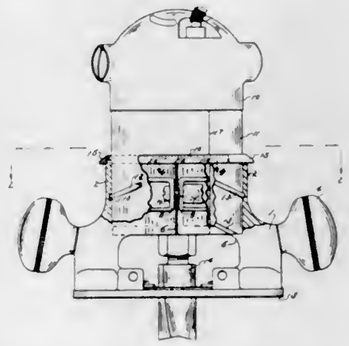
1. In a sawmill feed mechanism, a rollerway comprising spaced longitudinal side rails, transverse shafts extending between and non-rotatably secured on said side rails, tubular rollers surrounding said shafts, bearings rotatably mounting said rollers on the shafts and precluding endwise movement of the rollers relative to the shafts, a fixed annular flange on one end of each of the rollers, an axially adjustable annular flange on the other end of each of the rollers, means for securing the adjustable flanges in selected adjusted positions on the rollers, and a carriage having longitudinal side members resting upon the rollers within the flanges, the flanges engaging the laterally outward sides of the longitudinal side members of the carriage, the adjustable flanges being adjusted on the rollers to confine the carriage to longitudinal movement parallel to the rollerway and preclude lateral movement of the carriage relative to the rollerway.

2,613,703
VOLUMETRIC HYDRAULIC SYSTEM FOR PRECISELY CONTROLLING POSITION
Harry B. Calvert, Boring, Oreg.
Application June 29, 1950, Serial No. 171,040
14 Claims. (Cl. 143—118)



9. A volumetric control system for discharging a preselected increment of pressure fluid into a delivery conduit, said system comprising the combination of a source of pressure fluid, means for preselecting a desired increment of pressure fluid, a delivery conduit, means for accumulating the preselected increment of pressure fluid, and means including a control mechanism responsive to said preselecting means for governing the action of said accumulating means and effecting the discharge of the preselected increment of pressure fluid into said delivery conduit.

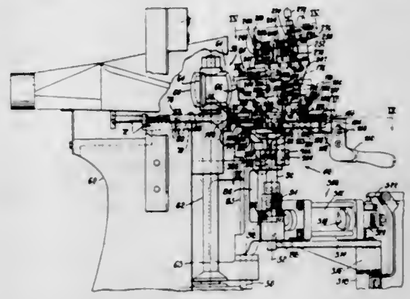
2,613,704
DEPTH ADJUSTMENT FOR MOTOR-DRIVEN CUTTING TOOLS
Elmer P. Sacrey, Syracuse, N. Y.
Application March 11, 1950, Serial No. 149,193
3 Claims. (Cl. 144—136)



2. In a motor driven tool, a body formed with a cylindrical passage, the portion of the body formed with the passage being split longitudinally to form a clamp, and means for contacting the body, a motor having a shaft provided with means for holding a cutting tool, and also having a cylindrical casing slidably fitting the walls of the passage when the cylindrical portion is unclamped, slidably interlocking spiral means connecting the motor casing and the walls of the passage, whereby upon turning of the motor and the casing, the motor casing and tool are shifted endwise in the passage, and a depth gauge comprising a ring provided with depth calibrations, the ring being mounted on the open end of the body and having a rotating movement, friction means between the ring and the body for braking the rotation of the ring, the casing having a single calibration, the ring being rotatable relatively to the body and the casing when the casing is turned to position the cutter in zero position, and the casing being also rotatable along the spiral means from zero position to aline its calibration with a selected depth calibration of the ring.

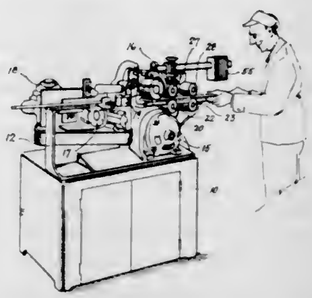
2,613,705
MACHINE FOR FORMING THE UPPER FACES OF WEDGE HEELS
Harley W. Russ, Haverhill, and Edgar E. Joiner, Jr., Andover, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 22, 1951, Serial No. 247,782
20 Claims. (Cl. 144—145)

1. In a machine for use in the manufacture of wedge heels, a rotary cutter, an abutment, a carrier, a holder which is tiltingly mounted upon the carrier, means for positioning and clamping a wedge heel blank in the holder, said carrier having secured to it a guide pattern and being movable in a predetermined path controlled by the traversing engagment of said pattern with said abutment to cause the wedge heel blank in said holder to traverse the cutter, and means comprising an actuating pattern which is movable upon the carrier and is operatively connected to the holder, said means being adapted to maintain the holder in a neutral position upon



the carrier during a portion of the traversing movement of the blank past the cutter and also being adapted to tilt the holder upon the carrier away from said neutral position during another portion of the said traversing movement of the blank past the cutter.

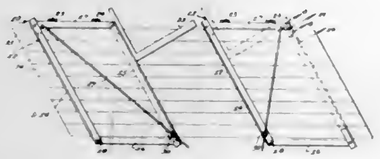
2,613,706
WEIGHTED FEED ROLL FOR WOODWORKING MACHINES
Orson P. Smith, Seattle, Wash., assignor, by mesne assignments, to Smithway Machine Co., Inc., Seattle, Wash., a corporation of Washington
Application March 26, 1949, Serial No. 83,600
5 Claims. (Cl. 144—248)



1. In a woodworking machine, a table across which strips of material are adapted to be advanced, endwise and in succession, diven feed rolls arranged in tandem and with which the entering strips successively engage for their advancement, mountings for said rolls supported for their independent movement toward and from the table, a vertically movable pressure bar associated with the table and extending above and disposed between the longitudinal axes of said rolls, means limiting the downward movement of the pressure bar in accordance with the thickness of the strips being advanced across the table, means maintaining a downward force against the pressure bar, arms extending laterally in opposite directions from the pressure bar, each arm having a lost-motion connection with the mounting of one of the rolls and through which connection downward force may be transmitted from the pressure bar to the

roll to press the roll into driving contact with a strip being advanced beneath the roll and whereby a limited downward movement of the roll relative to the pressure bar without transmission of downward force against the roll by the arm is permitted when said roll is not in contact with an advancing strip, said movement being definitely limited by the lost-motion connection of the roll mounting with the arm of the downwardly stopped pressure bar to that permitting easy pick-up of the next advanced strip by the roll.

2,613,707
LUMBER CUTTING JIG
Zellner H. Giles, Pinole, Calif.
Application January 13, 1950, Serial No. 138,459
2 Claims. (Cl. 144—289)



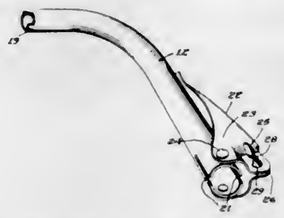
1. A jig for use in the mass cutting of lumber comprising a pair of quadrilateral frames each including a pair of side members disposed in spaced apart and substantially parallel relationship to each other and a pair of end members also disposed in spaced apart and substantially parallel relationship to each other and pivotally connected at their opposite ends to the ends of said side members at the respectively opposite ends of said frame, hinges connecting one end member of one frame to an end member of the other frame so that one of said frames can be superimposed on the other frame, the side and end members of one frame having the same length as the side and end members of the corresponding frame, an elongated brace pivotally connected at one end to an end member of one of said frames near one corner of the latter and extending diagonally across such frame to the diagonally opposite corner thereof, and means adjustably connecting said brace to said frame near said diagonally opposite corner to releasably hold said frame in adjusted positions of angularity of the side members relative to the end members thereof.

2,613,708
METHOD OF CUTTING TIMBER AND OF CONNECTING THE SLABS
Robert B. Blackmore, Casper, Wyo.
Application August 22, 1951, Serial No. 243,107
4 Claims. (Cl. 144—309)



1. The method of producing building logs from rough timber, consisting in sawing a log longitudinally in a line parallel with the outer surface of the log, providing slab sections of uniform thickness with flat inner surfaces, placing the flat inner surfaces together, securing the slab sections together, and finally forming flat upper and lower surfaces longitudinally of the log.

2,613,709
TENSIONING MEANS FOR BOW SAW FRAME
Delmer D. Terrill, Bangor, Maine; George F. Eaton and The Merrill Trust Company, both of Bangor, Maine, executors of said Delmer D. Terrill, deceased
Application April 9, 1948, Serial No. 20,038
2 Claims. (Cl. 145—34)



1. A saw frame for a blade having a transverse stud adjacent one of its ends, said frame including first and second ends, at least one of which is of resilient stock, means to connect the other end of said blade to said first frame end, said second frame end having an open-ended blade receiving slot, a lever including a pair of sides pivotally connected to said second frame end to swing thereabout on an axis intersecting its slot at right angles between first and second positions, said lever having an open-ended blade entrance slot in alinement with said blade receiving slot and having an enlargement adjacent its closed end dimensioned to receive said stud thereby to enable the stud end of said blade to be entered through said lever into the chamber defined by it and its sides, said sides in the zone of said enlargement being spaced apart to receive said stud and being inclined towards each other in the direction of the open end of said entrance slot to receive said blade but to exclude said stud, said side walls having transversely alined cam slots, in the zone wherein they are inclined, disposed to receive and support the ends of said stud, said lever in said first position being disposed with its entrance slot opening towards the first frame end and spaced therefrom to enable the stud end of said blade to be inserted into the chamber through said entrance slot when the other blade end is connected to said first frame end and in said second position, said second frame end being disposed between said first frame end and said cam slot with said blade passing through said second frame end slot, the ends of said stud entering said cam slots as said lever is moved from said first position towards said second position, and said cam slots being dimensioned and located so that in said second position said blade and said frame are tensioned and said stud is positioned relative to the pivotal connection between said lever and said second frame end to resiliently hold said lever against movement towards its first position.

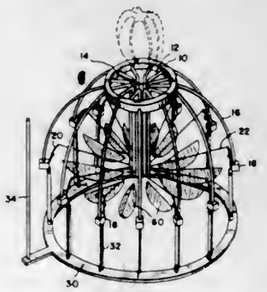
2,613,710
MACHINE BIT FOR DRILLING WOOD
Joseph V. Emmons, Shaker Heights, Ohio, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio, a corporation of Ohio
Application August 2, 1951, Serial No. 239,939
9 Claims. (Cl. 145—117)

1. A wood bit comprising a main body portion having alternate helical flutes and lands, the outer surface of the latter provided with clearance areas which terminate rearwardly of the point by a distance equal to about 10% to about 90% of the diameter of the point, thus providing uncleared land areas at the point of the drill



which throughout their circumferential extent lie on a common circle.

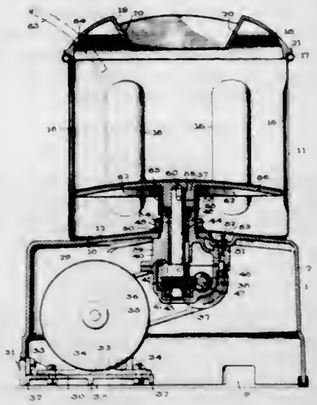
2,613,711
APPARATUS FOR PREPARING CITRUS FRUIT
Wendell A. Boden, Detroit, Mich.
Application August 30, 1948, Serial No. 46,872
33 Claims. (Cl. 146—3)



1. In apparatus of the character described, a plurality of needles disposed in parallelism in an annular series, guide means for said needles mounting said needles for radial in and out movement, and needle control means for moving said needles in and out between an inner position in which the needles support the core and radial membranes of a citrus fruit and an outer position in which the needles are spaced to facilitate withdrawal of the core and radial membranes of a citrus fruit after separation of the segmental fruit cell groups therefrom, said needle control means comprising resilient means urging said needles inwardly, and other means for moving said needles outwardly, said other means comprising a plunger reciprocable through the said needles to expel the core and attached radial membranes, said plunger having camming surfaces for effecting in and out movement of said needles, said plunger having a portion provided with spaced recesses for receiving and locating the supported ends of said needles, and clamping means for locking said needles in engagement with said plunger.

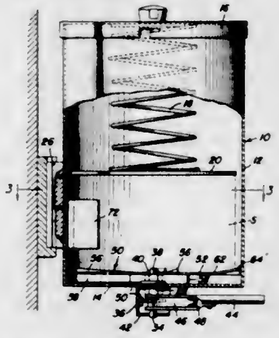
2,613,712
PORTABLE VEGETABLE PEELING MACHINE
Harry Pearlman, Syracuse, N. Y.
Application June 9, 1949, Serial No. 98,045
3 Claims. (Cl. 146—49)

1. A peeling machine of the class described, comprising a receptacle, a rotary abrasive member mounted in said receptacle adjacent to the bottom thereof, said receptacle having a plurality of spaced indentations of substantial vertical height and width formed in the peripheral wall thereof, with the indentations smoothly curving inwardly and protruding into the interior of the receptacle, and said abrasive member having its top surface free of projections and having the form of a generally circular disc curving uniformly downwardly at opposite sides of a diametrical center line extended across



the top surface of said disc to the opposite marginal edges thereof, and driving means for imparting rotation to said abrasive member.

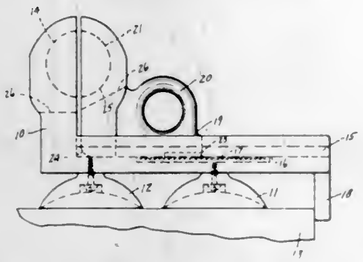
2,613,713
SOFT SOAP DISPENSER
Noah F. Peebles, Odon, Ind.
Application February 28, 1949, Serial No. 78,792
1 Claim. (Cl. 146—61)



In a soft soap dispenser, a container for a plastic mass of soap, a bottom closing the lower end of said container, said bottom having an eccentrically disposed soap discharge opening extending therethrough, said opening having one side adjacent the periphery of the container, said opening extending radially less than one-half the distance to the center, a rotor plate mounted in the container near the bottom thereof for rotation in one direction about the vertical axis of the container, said rotor having spaced inwardly from and around the periphery thereof a plurality of slots the leading edges of which are tangential to a circle concentric to the center of the rotor, said slots being spaced equidistant from one another with their inner ends equidistant from the center of the rotor, adjacent slots being perpendicular to one another, an upwardly inclined soap severing blade carried by the rotor at the trailing edge of each opening for severing soap from a mass of soap contained in the container and moving soap so severed toward the bottom of the container, a downwardly extending flange carried by the rotor extending along the leading edge of each opening and en-

gaging the bottom of the container for directing severed soap toward the soap discharge opening, the edge of said flange being substantially parallel to the plane of said rotor plate, and means extending through the bottom of the container and connected to the rotor for positively moving said rotor in a direction to sever soap from the mass of soap and to extrude the severed soap through the discharge openings.

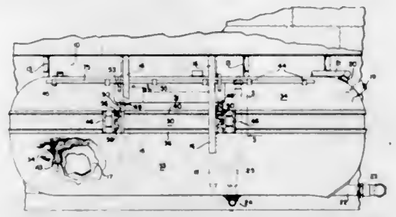
2,613,714
SLICING DEVICE FOR CULINARY PURPOSES
Paul H. Miller, Indianapolis, Ind.
Application July 20, 1949, Serial No. 105,798
2 Claims. (Cl. 146—150)



1. A slicing device for use in slicing fruits, vegetables and the like comprising two cooperating members, each of said members having a base portion and an upright wall formed at the forward end thereof, one of said members having a longitudinally disposed inverted T slot formed in the base portion thereof, the other of said members having a longitudinally disposed inverted T tongue formed in the base portion thereof and being loosely slidable within said slot, the depth of said tongue being sufficiently less than the depth of said slot to permit relative angular movement therewithin, cooperating interlocking ratchet teeth disposed in the bottom of said slot and the bottom of said tongue respectively, so constructed and arranged as normally to resist rearward movement of said tongue relative to said slot, the upright walls of said members having opposed cooperating recesses formed in the confronting faces thereof substantially above said respective base portions, said recesses each being defined by rear and side walls for enveloping said fruit or vegetable, said walls each having a plurality of spaced longitudinally aligned slots extending downwardly from the tops thereof, to a point slightly below said recesses, and finger grip means carried by said second mentioned base portion medially of its sides and on the top of said base portion to permit a forward rocking movement of said second mentioned member relative to said first mentioned member whereby said interlocking elements are disengaged and said base portions may be moved longitudinally relative to each other.

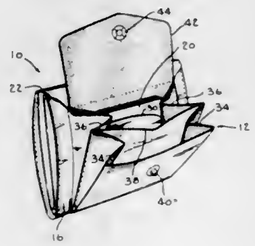
2,613,715
AIRCRAFT TANK ASSEMBLY AND SUPPORTING MEANS FOR THE SAME
Francis B. Johnson and George A. Starleaf, Burbank, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.
Application August 24, 1949, Serial No. 112,038
6 Claims. (Cl. 150—0.5)

1. Means for supporting an elongate horizontally disposed tank of generally ovate cross section having substantially spheroidal ends, the tank being formed of pliable material, said means comprising a rigid member extending around the tank in a horizontal plane, and a fabric



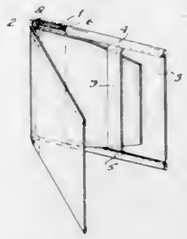
cradle attached to said member and depending therefrom, the cradle engaging about and conforming with the sides and ends of the tank to support the same from the member.

2,613,716
COMBINED BILLFOLD AND COIN PURSE
David B. Jeffery, West Bend, Wis., assignor to Amity Leather Products Co., West Bend, Wis., a corporation of Wisconsin
Application November 10, 1950, Serial No. 194,986
3 Claims. (Cl. 150—35)



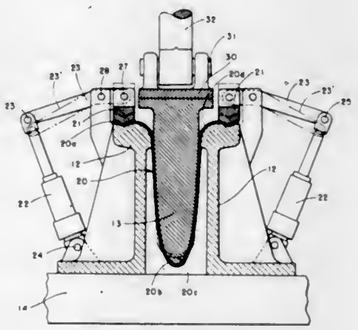
1. A billfold and coin purse comprising a pair of walls forming a bill compartment having an opening along a longitudinal edge thereof to laterally receive paper currency in an unfolded state, said compartment being foldable along a central transverse axis and secured to hold such paper currency in said compartment, a coin purse secured to the outside wall of said pair with said compartment folded between said transverse axis and the end of said outside wall and including an outer wall member having a double gusset at each end connecting said member to said outer wall, said purse having a partition forming two chambers secured between said gussets, an opening in said outside wall between said compartment and said purse through which the ends of paper currency in said compartment extend into a chamber of said purse, a flap for said purse secured to an edge of said opening on the outside of said outer wall and having an inner extension passing from the outside of said outer wall inwardly through said opening into said compartment to form a divider for paper currency in said compartment, and a lip on the edge of said opening opposite said flap, said partition in the closed condition of said purse coacting to close said opening and prevent coins in the outer of said chambers from entering said bill compartment.

2,613,717
WALLET
Irving Jaguden, New York, N. Y.
Application October 2, 1950, Serial No. 187,864
2 Claims. (Cl. 150—38)



1. In a wallet, an outer panel foldable into two overlapping panel portions, an inner panel disposed at one side of the fold line and extending longitudinally with its outer end from the adjacent end edge of said outer panel toward the fold line, the inner panel having its outer and side margins connected to the said outer panel in order to form a pocket, a third panel, one end portion of said third panel being disposed in said pocket and the side margins of said one end portion of said third panel being connected to the said outer panel, the other end portion of said third panel forming a flap beyond a fold line therein, said flap covering bills inserted into said pocket when the wallet is in its folded position, said inner panel extending along the outer panel for a length less than the half length of the bills, and means for securing the flap of said third panel to the outer face of said inner panel.

2,613,718
DROP STRETCH FORMING
Stanley I. Vaughn and Alfred W. Tucker, Columbus, Ohio, assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application December 1, 1949, Serial No. 130,564
2 Claims. (Cl. 153—2)



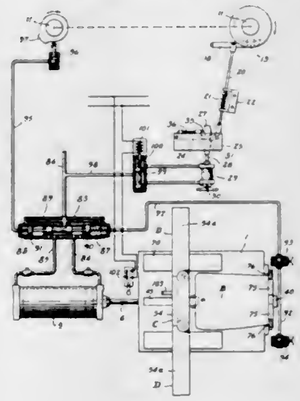
2. The method of forming an article of U channel form from a sheet of metal, comprising supporting and gripping the sheet at only the side portions thereof, with the central portions of the sheet depending downwardly to form a channel which extends from end to end of the sheet and whose interior faces upwardly, and then, with the sheet so supported and gripped, dropping a male die by gravity into the channel from a height sufficient to act by impact to permanently stretch the metal of said central portion of the sheet.

2,613,719
EJECTING MEANS FOR MACHINES FOR MAKING FRAMES
Owen Conrad, Miami, Fla., assignor to Metal Products Corporation, Miami, Fla., a corporation of Florida
Application March 16, 1950, Serial No. 150,073
4 Claims. (Cl. 153—2)



1. In combination with a channel-like track adapted to support a channel-like strip, a plurality of hold down rollers adapted to engage the top of the strip while supported on the track, brackets rotatably carrying said rollers, ejector pins at the bottom of the track, said track having apertures therethrough to slidably receive said pins, said pins being connected to said brackets, the distance between the top of the pins and the bottom of the rollers being greater than the height of the strip and means for raising said pins in said apertures to abut the strip and elevate it above the track, whereby the rollers will also be elevated above and out of contact with the strips.

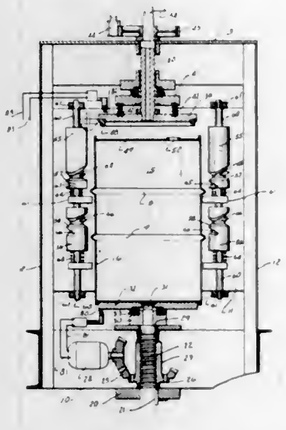
2,613,720
FORMING MECHANISM FOR COMPOSITE SEALING STRIPS
Walter Scott Baker, Logansport, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 2, 1950, Serial No. 198,769
12 Claims. (Cl. 153—2)



1. A strip forming mechanism comprising a bed, a template having rear and side strip forming edges slidably mounted on said bed for movement in a direction transverse to its rear edge, strip clamping and bending members mounted on the bed for movement thereon in the direction of movement of the template and comprising a central strip clamping member parallel to the rear edge of the template and wing members pivoted to the ends of said clamping member and mov-

able about their pivots to bend end portions of the strip into engagement with the side edges of said template, means for actuating the clamping and bending members to bend the strip into engagement with the side edges of the template, cutters carried by the template adjacent the forward ends of its side edges, and means controlled by said actuating means for operating said cutters to trim the ends of the formed strip.

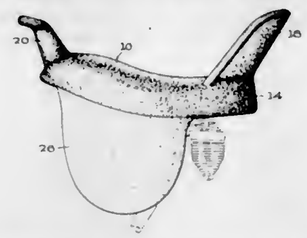
2,613,721
DEDENTING MACHINE FOR CLOSED END CONTAINERS
Edward C. Kradoska, Melrose Park, Pa.
Application November 22, 1949, Serial No. 128,811
9 Claims. (Cl. 153—32)



1. A rolling machine including a first end plate, means for rotating said first end plate, a second end plate aligned with said first end plate, means for mounting said second end plate for free rotation about the axis of rotation of said first end plate, said plates being spaced apart so as to receive a drum to be rolled therebetween with the end walls of said drum in a position to be engaged by said plates respectively, driving means for moving said second end plate toward said first end plate to clamp said drum between said end plates, a freely rotatable roll having a body portion for rolling a body portion of the drum and having a circular groove for rolling a body bulge on the drum, means for creating a predetermined fluid pressure within the drum, and means for bringing said roll into engagement with the drum with a predetermined pressure.

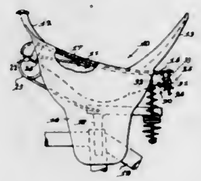
2,613,722
SADDLE COVER
Clarence J. Ruppert, Washington, D. C., assignor of thirty-three and one-third per cent to Eli W. Gaffield, Washington, D. C., and thirty-three and one-third per cent to Raymond N. Matson, Silver Spring, Md.
Application July 1, 1949, Serial No. 102,693
10 Claims. (Cl. 155—5.23)

8. An attachment for cycle saddles comprising a soft rubber body having a narrow front portion and a wide rear portion, a hand-hold projecting from said front portion and a curved back support projecting from said rear portion, said body, hand-hold and support cooperating to form a relatively confined seat for cycle pedalling, flanges integral with the periphery of said body for securing the cover to the saddle, and flexible,



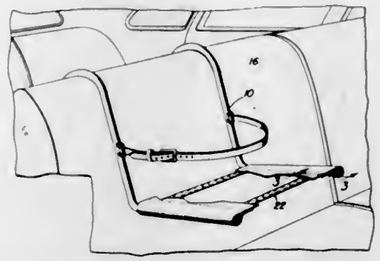
stiffening inserts in all the portions of said cover except said hand-hold and said rear body portion.

2,613,723
SADDLE ATTACHMENT FOR CYCLE SEATS
Leroy F. Bryant, Louisville, Ky.
Application August 10, 1951, Serial No. 241,210
6 Claims. (Cl. 155—5.23)



1. A simulated horseback saddle attachment for a cycle seat adapted to be disposed on and supported by a cycle seat, said saddle simulating a horseback saddle and having a front attaching means connected to an underside of a forward part thereof and adapted to detachably engage beneath opposite sides of a front part of a cycle seat, and a rear attaching means adjustably connected to and depending from a rear part of the saddle and adapted to detachably engage beneath a rear portion of the cycle seat for detachably securing the saddle immovably on the seat.

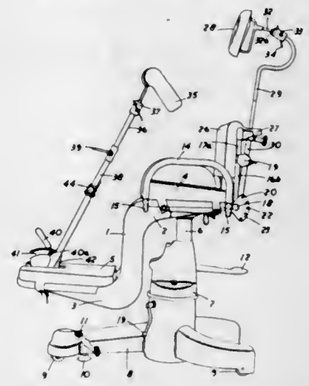
2,613,724
CHILD'S CAR SEAT
Junior Kenneth Arnold, Cedar Rapids, Iowa, assignor of twenty-five per cent to Warren C. Ackley and twenty-five per cent to Hugh V. Hardacre, both of Cedar Rapids, Iowa
Application December 1, 1949, Serial No. 130,439
2 Claims. (Cl. 155—11)



1. A child's car seat comprising a pair of laterally spaced uprights having car seat engaging hooks on the upper end, horizontally disposed seat supporting projections extending from the lower end of said uprights in a direction opposed to that in which said hooks extend, a pair of

flexible strips secured to said projections and connecting the forward and rear ends thereof, a flexible web overlying said strips and projections, said web having side portions underlying the strips, and means securing the side portions of the web to the rest of the web.

2,613,725
NEUROSURGICAL OPERATING CHAIR
Harold Woodhall, London, England, assignor to Allen & Hanburys Limited, London, England, a British company
Application August 18, 1950, Serial No. 180,139
In Great Britain September 14, 1949
6 Claims. (Cl. 155—28)



1. A chair comprising a seat; two locking plates each formed with a series of spaced apertures and arranged one on each side of the said seat near the rear thereof; a height-adjustable back hinged to the rear of the said seat; a pair of locking pins guided for sideways sliding movement on the said back; a system of levers mounted on the said back and operable to cause the said locking pins to engage in, or disengage from, any opposed pair of the said series of apertures whereby the said back can be secured in any one of a number of predetermined inclined positions; a rear head-rest having a removable, universal and height-adjustable mounting on the said back; a foot-rest supported from said seat; and supported on the said foot-rest, a removable universally-mounted, front head rest which is adjustable for height, and is inclinable.

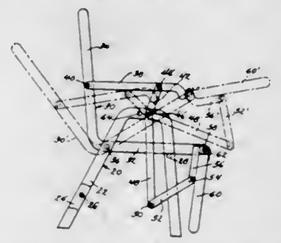
2,613,726
CHAIR FOR USE IN X-RAY PHOTOGRAPHING OF TEETH
Yrjö Veli Paatero, Helsinki, Finland
Application February 27, 1948, Serial No. 11,545
In Finland, March 19, 1947
2 Claims. (Cl. 155—36)

1. A dental X-ray chair having means for motion about the vertical axis thereof, said chair having a patient's seat, means for arcuately moving said seat, whereby to conform to the arcuate contour of the processus alveolaris, said chair also including a pedestal support, a bottom plate fixed to said pedestal support, a slide plate superposed on said bottom plate and fixed to said seat, said seat being mounted on said pedestal support, and means for moving said seat at first linearly, then in an arc of approximately 130° about said vertical axis, and then linearly again, said means comprising a rotatable crank, a shaft rotated thereby, a toothed gear wheel mounted on the end of said shaft, and gear teeth in the edge portion of said slide plate and meshing with said teeth of said gear wheel, said slide plate being operatively connected to said seat, also comprising a cam provided with slots, and pins cooperating with said slots, and said bottom plate being



provided with guide grooves, and said slide plate being provided on its underside with pins seated in said guide grooves, whereby said slide plate, and said chair seat operatively connected thereto, may be forced to move in said plurality of directions when said rotatable crank is turned.

2,613,727
RECLINING ARTICLE OF FURNITURE
Anton Lorenz, Buffalo, N. Y.
Application August 9, 1948, Serial No. 43,216
11 Claims. (Cl. 155—106)

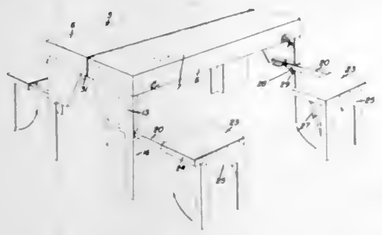


1. A reclining article of furniture comprising: a support, a structure including a seat and a back-rest rigidly connected with each other, said structure being swingably mounted on said support, a top link pivoted at its rear end to said back-rest, a double-armed lever including a guiding arm and a controlling arm, said double-armed lever being swingably mounted on said support, said guiding arm being pivoted to the front end of said top link, a leg-rest swingably mounted on the front portion of said seat, a first controlling link pivoted at one of its ends to said controlling arm, and a second controlling link, one end of said second controlling link being pivoted to the other end of said first controlling link, the other end of said second controlling link being pivoted to the front portion of said seat, and one of said controlling links being engaged with said leg-rest for controlling the movements thereof.

2,613,728
FOLDABLE TABLE AND SEAT UNIT
Fred Loibl, Sr., Honolulu, Territory of Hawaii
Application December 19, 1950, Serial No. 201,528
5 Claims. (Cl. 155—124)

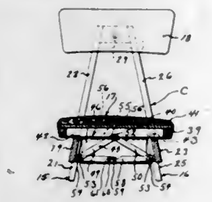
1. A foldable table and seat unit comprising a table top formed of a pair of foldable sections

adapted for folding one against the other to form a carrying case, a foldable leg hinged to each end of each section, a seat having a rigid arm, and means carried by the leg adapted to



receive the arm for rigidly supporting the arm and seat in an outwardly extending open position, and means swingably connecting the arm to the leg, said arm and seat being foldable against the leg for folding therewith under the top.

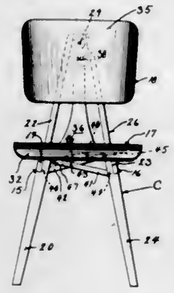
2,613,729
FOLDING CHAIR
Enfred W. Anderson and Arvid J. Anderson, Norway, Mich.
Application August 18, 1950, Serial No. 180,118
7 Claims. (Cl. 155—140)



1. A folding chair comprising a pair of like companion side frames, each of said frames including a top rail, depending front and rear legs, and a back upright, a pivot bolt pivotally connecting the side frames together adjacent to the upper ends of the uprights, whereby said frames can be moved toward and away from one another, a chair seat hingedly connected to the rail of one frame and movable to an operative position over the rail of the other frame when said frames are in their open spread position, and a back rest mounted on said bolt for swinging movement, and said back rest being threaded on said bolt and movable to a tightened position on the bolt against the side frames when said back rest is swung to an operative horizontal position.

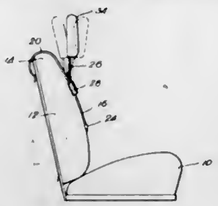
2,613,730
FOLDING CHAIR
Enfred W. Anderson and Arvid J. Anderson, Norway, Mich.
Application March 7, 1951, Serial No. 214,258
5 Claims. (Cl. 155—140)

1. A folding chair comprising a pair of like companion side frames, each of said frame including a top rail, depending front and rear legs and a back upright, means pivotally connecting the back uprights together whereby the side frames can be moved toward and away from one another, a seat movable relative to the side frames, front and rear pairs of crossed levers, the crossed levers of each pair being pivotally connected intermediate their ends, means pivotally connecting the lower ends of the crossed levers of each pair to the side frames, means pivotally connecting the upper end of one le-



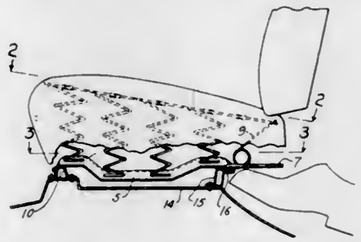
ver of each pair of levers to the seat, and links pivotally connecting the upper ends of the other levers to the chair seat.

2,613,731
HEADREST
John S. Roginski, Boston, Mass.
Application November 30, 1949, Serial No. 130,265
8 Claims. (Cl. 155—174)



1. An article of the character described comprising a frame having bent upper extremities for engaging over a seat, a pair of slide elements adjustably mounted on the frame, each of the slide elements being formed with a plurality of guideways extending therethrough, the guideways occurring angularly with respect to one another, and a headrest section detachably secured in one set of guideways.

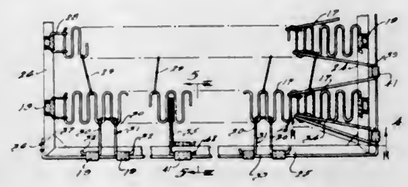
2,613,732
SEAT SPRING
Kenneth R. Dye, Marine City, and Maurice Stubnitz, Adrian, Mich., assignors to Stubnitz-Greene Spring Corporation, Adrian, Mich., a corporation of Michigan
Application March 26, 1948, Serial No. 17,134
3 Claims. (Cl. 155—179)



2. A seat spring for stacking and telescoping for storage or transportation, having in combination an upper frame member, spaced rows of

coiled supporting springs some of which are secured to the upper frame, connectors for tying the upper ends of said springs to each other and the upper frame, floating cross slats with free unattached ends connecting the lower ends of said springs in rows, the rows of springs and cross slats being spaced from one another at least the width of a cross slat and its row of springs, each row and its supporting cross slat being entirely independent of another and spaced a distance greater than the O. D. of the top coil of the coiled supporting springs, so that two spring seats can be telescoped or packed together by allowing rows of one spring seat to pass between the rows of the other seat spring in inverted position, the cross slats have upwardly offset portions and safety pin type springs having lower legs secured to this upwardly offset portion and upper legs secured to the upper frame member.

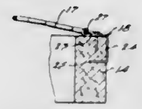
2,613,733
SPRING CONSTRUCTION
Andrew Mouw, Huntington Woods, Mich., assignor to No-Sag Spring Company, Detroit, Mich., a corporation of Michigan
Application May 14, 1945, Serial No. 593,713
2 Claims. (Cl. 155—179)



1. In a spring construction having a frame and spaced parallel sinuous springs, means securing the sinuous springs at opposite ends to the front and rear edges of the frame to provide a resilient load supporting surface, the combination of a U-shaped border wire having the arms extending along the sides and the web disposed along the front edge of the frame, means for resiliently holding the front edge of the border wire above the front edge portion of the sinuous springs so as to provide a soft front edge to the assembly, said means comprising U-shaped wire spring elements each having a lateral web secured to the border wire at the front edge of the frame with longitudinal arms extending rearwardly from the web to the sinuous springs to which the ends of the arms are secured, and similar spring elements supporting the corners of the border wire at the junction of the arm and web portions thereof, with the ends of the arms of the spring elements secured to the sidemost sinuous springs of the assembly at the outer side edges thereof.

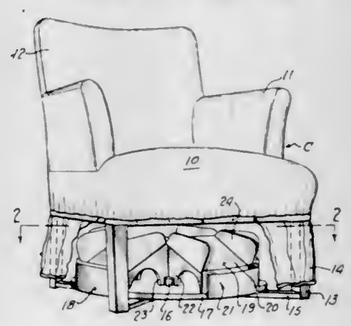
2,613,734
SPRING SUPPORTING CLIP
Henry Hopkes, New Baltimore, Mich., assignor to No-Sag Spring Company, Macomb County, Mich., a corporation of Michigan
Application September 4, 1945, Serial No. 614,394
1 Claim. (Cl. 155—179)

A clip for supporting a spring, said clip being made of strap material having an arm portion to be disposed across the edge of a frame in engagement therewith and a second arm portion at substantially right angles to said first arm portion adapted for engaging the outer face of the frame element, the free end of said second arm portion extending inwardly under said first arm portion and formed to provide a pair of spaced tongues adapted to be driven into the frame element for securing the clip thereon, the free end of said first arm portion being reversely bent to extend thereover and form a narrow slot of substantial width open outwardly of the frame when secured to the frame element in position to re-



ceive the spring which applies a tension to the clip in the direction in which said tongues are driven, said reversely bent end portion and said first arm portion each having an aperture therethrough disposed in aligned relation to each other to receive a nail which may be driven therethrough into the frame element for closing the slot after the end of the spring has been secured therein.

2,613,735
SHOE SUPPORTING DEVICE FOR FURNITURE
Edith May Fisher, Toledo, Ohio
Application September 24, 1949, Serial No. 117,639
4 Claims. (Cl. 155—190)

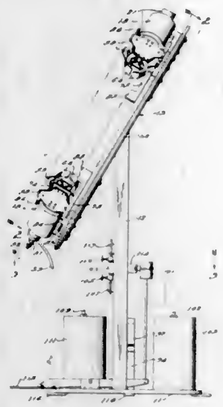


4. A shoe support comprising a platform, and a superstructure on said platform having radially arranged shoe supports with the inner ends elevated and contiguous and the outer ends spaced below the inner ends, the sides of said supports being spaced from each other to provide a sector-shaped shoe-receiving space on the platform, said sides having relieved portions to receive the toe portions of the shoes on the platform.

2,613,736
MACHINE FOR APPLYING SOLID RUBBER TIRES TO WHEEL RIMS
Paul Douglas Mize, Detroit, Mich.
Application September 23, 1948, Serial No. 50,712
13 Claims. (Cl. 157—1.1)

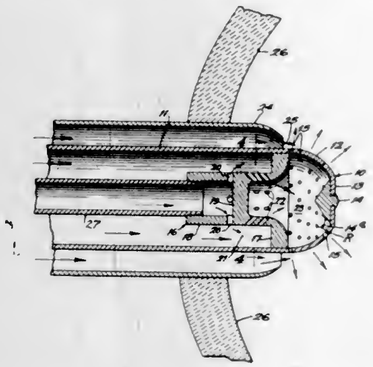
1. A tire applying device embodying a base plate having radially disposed supporting elements thereon, tire gripping and stretching devices applied to said supporting elements, jaws on said devices positioned annularly about the center of the base, means on the devices for opening and closing the jaws, means on said devices for moving the jaws radially outward when closed

for stretching the tire, a fluid circuit for operating said moving means in sequence, and position-



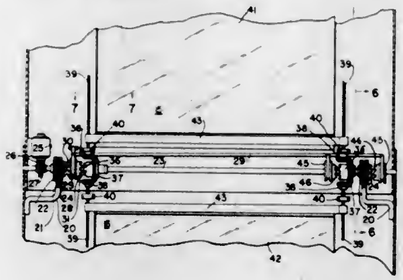
ing means for locating the tire in a position in the plane of the jaws.

2,613,737
OIL BURNER NOZZLE
Gustav Schwietert, McGregor, Iowa
Application December 9, 1950, Serial No. 200,027
4 Claims. (Cl. 158—76)



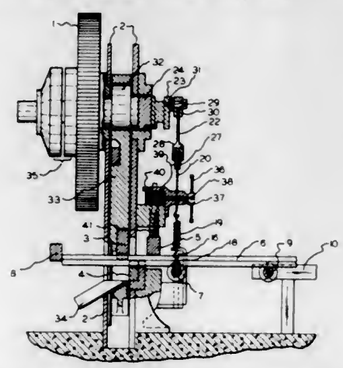
1. An improved oil burner nozzle, comprising a hollow tubular member terminating in a generally hemispherical end portion having apertures therethrough for spraying a mixture of oil and air into a combustion chamber, a partition member secured within said tubular member adapted to provide mixing zones for oil and air, said partition member having a reduced hollow portion adapted to receive a fuel supply pipe, and a casing surrounding said tubular portion providing a duct opening around the base of said hemispherical portion arranged to direct auxiliary air over the surface of said hemispherical portion, said openings in the hemispherical end portion being arranged in a plurality of rows curved in the same direction and each of said rows having a plurality of openings, said rows extending generally towards the end of said nozzle but being inclined away from the most direct line to the central point on the end of said nozzle.

2,613,738
WINDOW RAISING AND CLEANING UNIT
William A. Bowman, Baltimore, Md.
Application September 11, 1950, Serial No. 184,318
4 Claims. (Cl. 160—11)



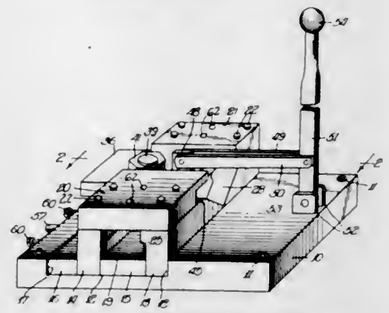
1. In operating mechanism for windows, the combination with a window frame of an upper sash pivoted laterally at its upper end to the frame, a lower sash, hinge means between the sashes, a pair of geared quadrants secured to the lower sash at opposite sides thereof, a shaft carried by and extending transversely of the upper sash, a motor for rotating said shaft, a gear freely mounted on said shaft at each end thereof and meshing with said quadrants, clutching means for meshing said gears and said shaft, means for guiding the lower end of the lower sash for reciprocating movement in the frame, and means for operating said clutching means to cause rotation of said gears and quadrants when the shaft rotates, to move the sashes from alignment to a jack-knife position, the motor being reversible to move the sashes from jack-knife position to alignment while the gears and quadrants are in mesh.

2,613,739
SHEAR ACCESSORY
Maurice P. Lefere, Jackson, Mich., assignor to Lefere Forge & Machine Company, Jackson, Mich., a corporation of Michigan
Application January 23, 1948, Serial No. 3,887
2 Claims. (Cl. 164—49)



1. In a machine for shearing heavy bar stock having a fixed shear plate, a movable shear plate, hold-down structure and a stock stop, a feed mechanism for feeding the bar stock between the fixed shear plate and the hold-down structure with the movable shear plate raised comprising a feed roller engageable with the bar stock, means for continuously rotating said roller to feed the bar stock toward the stock stop, means supporting and guiding said roller for vertical upward movement to engage the bar stock to support the same between the fixed shear plate and the hold-down structure while advancing the bar stock toward the stock stop and for vertical downward movement to rest the bar stock upon the fixed shear plate preparatory to shearing, and means connected to said roller for lifting the same to transfer the weight of the bar stock from the fixed shear plate to the roller in timed relationship to the operation of the movable shear plate.

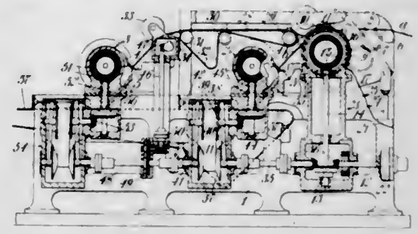
2,613,740
MITERING TOOL
Herbert D. Drain, Chicago, Ill., assignor to Walter E. Selck and Co., Chicago, Ill., a corporation of Illinois
Application August 13, 1947, Serial No. 768,349
2 Claims. (Cl. 164—50)



1. A cutting tool for miter cutting a channel-shaped molding, comprising a base member having an upwardly opening transverse groove, elongate upstanding parallel cutting members mounted lengthwise and in laterally spaced relation in said groove, said cutting members being separated by a spacer block of substantially the same width as the molding to be cut, clamping means for securing said cutting members and said spacer block in rigid position in said groove, guide means extending transversely above said cutting members, and a reciprocable cutting member of less length than the width of said spacer block mounted in said guide means, said upstanding cutting members having upwardly opening transverse V-shaped grooves providing spaced opposed cutting edges aligned with said guide means and reciprocable cutting member having cutting edges at the opposite ends thereof cooperating with said opposed cutting edges on said cutting members.

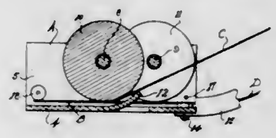
2,613,741
APPARATUS FOR CUTTING SHEETS FROM WEBS OF CARDBOARD, PAPER, AND THE LIKE
James Eckersley Battersby, London, England, assignor to Masson Scott & Company Limited, London, England
Application March 29, 1950, Serial No. 152,730
In Great Britain April 2, 1949
8 Claims. (Cl. 164—68)

1. In an apparatus for cutting sheets from longitudinally slit webs having a plurality of cutters for cutting the webs transversely and web feeding means arranged so that webs can be fed to any one or more of the cutters, the combination with a pair of coacting web feed rolls for feeding the slit webs to the cutters, of means for adjustably varying the relative angular relationship of the said feed roll axes in such a manner that the direction of the com-



mon tangent of the roll surfaces can be varied between positions corresponding to favourable feeding conditions for one or other of the cutters.

2,613,742
TICKET SEVERING DEVICE
Elmer Wayne McGhan and Henry S. Ungerleider, Salt Lake City, Utah
Application May 17, 1949, Serial No. 93,656
4 Claims. (Cl. 164—84.5)



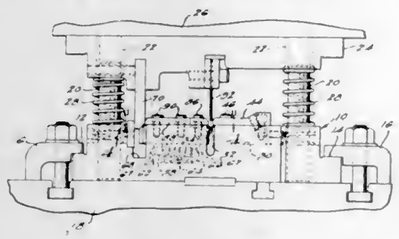
3. An attachment for use with a motion picture theatre ticket dispensing machine of the type ejecting and severing 1, 2, 3 or more tickets from a continuous strip of tickets, pulling the tickets upwardly from a fan-folded ticket strip confined in a receptacle having wide side walls and narrow end walls, said continuous strip of tickets having a longitudinal line of weakness between a major portion and a laterally positioned minor portion, comprising: a pair of parallel shafts extending substantially from one side wall of the receptacle to the other side wall of the receptacle, one shaft above the other shaft and both shafts being adjacent one of the vertical narrow end walls of the receptacle near the top thereof, a major roller on the lower shaft, a minor roller on the upper shaft entirely to one lateral side of the major roller, said rollers being equally spaced from said end wall of the receptacle and proximate thereto to allow passage of the continuous strip of tickets between the receptacle end wall and the major roller, the two shafts being spaced so closely that the lower portion of the upper roller is higher than the upper portion of the lower (major) roller, and a guiding member between the major roller and the one end wall having a sloping surface extending away from the end wall, toward the periphery of the major roller beyond the axis of the roller, of the same width as the major roller, and entirely to one side of the minor roller, to deflect the major portion of the ticket strip to pass between the upper shaft and the periphery of the minor roller as it engages the minor portion of the ticket strip whereby as the continuous strip of tickets is pulled by the ejecting mechanism in contact with the major roller the ticket strip will be severed along said longitudinal line of weakness between its points of contacts with the two rollers and will issue as two laterally severed portions.

2,613,743

DIE ASSEMBLY FOR STRIKING TABS FROM MOLDING RETAINER STRIPS OR OTHER SIMILAR WORKPIECES

Fred Bangerter, St. Clair Shores, Mich., assignor to Herron-Zimmers Moulding Company, Detroit, Mich., a corporation of Illinois

Application February 12, 1949, Serial No. 76,122
7 Claims. (Cl. 164—87)



1. A die assembly for striking tabs from moulding retainer strips and other similar workpieces, said die assembly comprising a stationary die member, a second die member, means mounting said second die member for reciprocatory movement toward and away from said stationary die member, means on one of said die members for supporting and releasably gripping a workpiece, said last-named means including a supporting element movable between a first position in which it is adapted to slidably support the workpiece and a second position in which it is adapted to hold the workpiece against movement, a punch element mounted on the other of said workpieces and adapted to strike a tab from said workpiece upon movement of said die member toward said stationary die member, a back-up element on said one of said members movable between an operative position in which it cooperates with said punch element to accurately control the position to which each tab is moved when it is struck out by said punch element and a retracted position in which it is out of the path of movement of the tab during sliding movement of the workpiece along the supporting means preparatory to a subsequent operation of the die assembly, and means effective in response to movement of said second member toward said stationary member to move said back-up element from said retracted position to said operative position and to move said supporting element from said first position to said second position and effective in response to movement of said second member in the opposite direction to move said back-up member from said operative position to said retracted position and to move said supporting member from said second position to said first position.

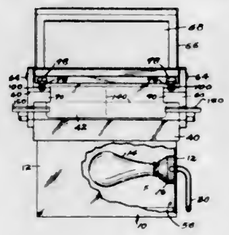
2,613,744

PUNCH FOR PRINTING APPARATUS

Herman H. Hillmer and Henry P. Orent, Omaha, Nebr., assignors to Printing Engineers Incorporated, Omaha, Nebr., a corporation of Nebraska

Application February 3, 1949, Serial No. 74,324
1 Claim. (Cl. 164—91)

In a photographic printing film punch, the combination which comprises a sheet of translucent material having a horizontally disposed line and a vertically disposed line thereon, said vertically disposed line positioned at a right angle in relation to the horizontally disposed line, a frame having a continuous recess in which the said sheet of translucent material is positioned, a pair of punch mounting brackets positioned at the sides of the frame and having punch carrying blocks extended therefrom and spaced above the upper surface of the said sheet of translucent material, said punch carrying blocks having bores with counterbores therein extended therethrough and positioned perpendicular to the face of the frame, said bores being centered on the said horizontally disposed line on the translucent sheet, punches having collars thereon slidably mounted in the said bores with the collars positioned in the counterbores, means re-



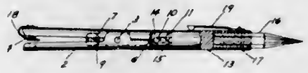
siliently urging said punches upwardly away from the frame, a punch actuating frame pivotally mounted in the said brackets and positioned to engage the upper ends of said punches, and elongated clamping members pivotally mounted on the said brackets at points spaced from the said punch carrying blocks whereby film positioned on the frame, aligned with the said horizontal and vertical lines, and secured in position by the elongated clamping members is provided with accurately positioned openings upon operation of the punches.

2,613,745

COMBINED PUNCH AND PENCIL DEVICE

Sam B. Wimberly and Douglas R. Self, Birmingham, Ala.

Application August 24, 1950, Serial No. 181,216
1 Claim. (Cl. 164—120)



A punch device of the character described comprising, two substantially half-round bars, said bars mounted rockably on a small shaft, one end of one bar having a round pin fixed therein, one end of the other bar having a round hole therein, said pin and hole being adapted for the pin to be inserted in the hole when the end of the bars are brought together, a spring attached by one end thereof to the end of the bar having the pin therein, the free end having a hole therethrough with the outer end of the pin in the hole and adapted for the pin to be inserted forward and backward in said hole, a resilient rubber pad positioned between said bars near the rockable joint thereof and being normally disposed to hold said pin and hole apart; the other ends of the two bars having cut-out portions that form a slot therebetween when the ends of the bars are pressed together by the urge of the rubber pad; a round third member consisting of a solid bar portion, said solid portion having a U-shaped slot in its solid end, pins inserted across and within said U-shaped slot, the cut-out ends of the half-round bars positioned around said pins in said U-shaped slot, said pins in the slot being adapted to pry said half-round bar ends apart when the assembled device is bent at the joint having the

said pins therein; a spring type clip attached to said third member adapted for holding the combined parts in the pocket of a user.

2,613,746

COLLAR LOCATING AND TOOL OPERATING DEVICE

Claire E. Whitney, Houston, Tex., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California

Application April 23, 1948, Serial No. 22,885
10 Claims. (Cl. 166—1)



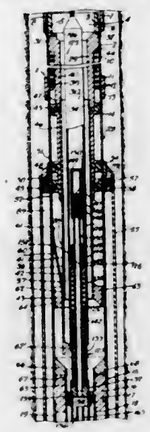
1. In apparatus adapted to be run in a well casing having a recess therein: a member adapted to be lowered in said casing; a sleeve on said member; leaf springs on said sleeve expandible into said recess; a retaining sleeve disposable over said springs and first-mentioned sleeve and movable by said member along said springs to retract them from said recess upon longitudinal movement of said member relative to said first-mentioned sleeve; and yieldable means mounting said springs individually on said first-mentioned sleeve for longitudinal movement relative to each other and to said first-mentioned sleeve.

2,613,747

WELL TESTER

Thomas Scott West, San Antonio, Tex.

Application July 28, 1947, Serial No. 764,123
7 Claims. (Cl. 166—1)



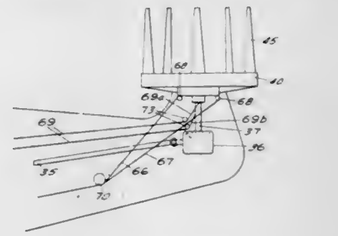
1. Apparatus for obtaining samples of the fluid content of the earth formations traversed by a well bore, said apparatus comprising, a housing adapted to be lowered to predetermined positions in the well bore adjacent formations to be sampled, a sample containing means in said housing, an inflatable packer on said housing, means for inflating said packer to seal off the well bore, a strainer in the wall of said packer providing a yieldable strainer portion to receive connate fluid from the formation under formation pressure while excluding formation particles and a rigid, tubular connection between said strainer and said housing within said packer and pivotally connected at one end to said strainer and at the other end to said housing, channel means in said housing to complete a flow passage between said tubular connection and said sample containing means whereby said connate fluid may flow via said strainer, said connection and said channel means to said sample containing means.

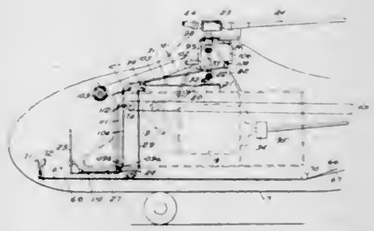
2,613,748

HELICOPTER WITH AUXILIARY ROTOR

Cyril George Pullin, Tadburn, Ampfield, and Jacob Samuel Shapiro, Hampstead, London, England, assignors, by mesne assignments, to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware

Original application December 9, 1946, Serial No. 714,988. Divided and this application July 29, 1947, Serial No. 764,492. In Great Britain September 27, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 27, 1965
3 Claims. (Cl. 170—135.24)

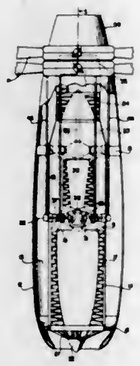




1. A helicopter having a lifting rotor system with means for controllably displacing the lift vector in the pitching plane of the aircraft and an auxiliary rotor comprising a series of blades with their spanwise axes paralleling the rotational axis of the auxiliary rotor, and with the latter axis positioned substantially vertically and offset from the center of gravity of the aircraft and with its blades mounted for oscillation about their spanwise axes, independent control mechanisms for varying the amplitude of oscillation of the paddle-wheel rotor blades about their span axes in each of two phases whose maxima of angular blade displacement from the mean position in either sense occur respectively in the fore and aft and transverse vertical planes, the mechanism

controlling the amplitude in the fore and aft phase being coupled to the pitching control member of the lifting rotor system to effect variation of said last-mentioned amplitude, the coupling connection providing for progressive increase of said last mentioned amplitude as said member is displaced in the "nose-down" direction, and the mechanism controlling the amplitude of blade oscillation in the transverse phase being operated by an independent control member for controlling the aircraft in yaw.

2,613,749
GAS TURBINE POWER PLANT HAVING PROPELLER DRIVE
Nathan C. Price, St. Helena, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application August 14, 1948, Serial No. 44,248
15 Claims. (Cl. 170—135.28)

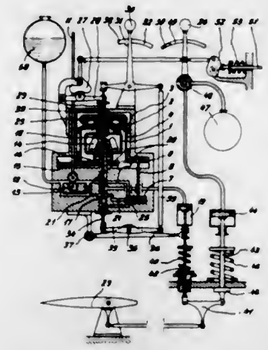


1. An aircraft powerplant comprising, a turbine, a first stage compressor, a second stage compressor driven by the turbine, a combustion chamber receiving compressed air from the compressors and supplying hot gases and air to the turbine to drive the same, a speed reducing drive between the first and second stage compressors, said drive including at least one rotating shaft extending laterally with respect to the compressors, a propeller, and a drive between the shaft and propeller.

5. In combination with a turbopowerplant having a casing provided with a propulsive nozzle and containing a gas turbine discharging gases from the nozzle, a combustion chamber and compressor means driven by the turbine; shafts driven by the compressor means and extending laterally from the casing, shafts geared to the first named shafts and extending rearwardly at the exterior of the casing, a pair of propellers surrounding the nozzle, and means driven by the second named shafts for rotating the propellers in the opposite directions.

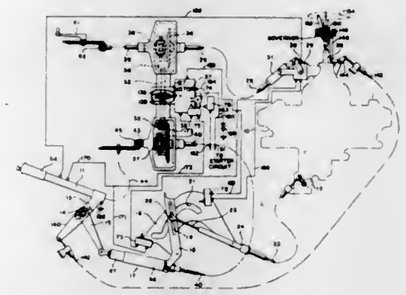
2,613,750
SPEED AND ACCELERATION ACTUATED POWER PLANT CONTROL MEANS
Louis Breguet and René Devillers, Paris, France; said Devillers assignor to said Breguet
Application February 10, 1948, Serial No. 7,356
In France February 18, 1947
11 Claims. (Cl. 170—135.74)

1. A power plant control means for adjusting a rotary power absorbing apparatus, including a hydraulically-operated servo-motor and a source of pressure liquid provided with a discharge end connected to said servo-motor through duct means, comprising in combination valve means in said duct means for controlling the passage of pressure liquid to said servo-motor, a centrifugal speed governor rotatingly driven from said apparatus, linking means between said governor and said valve means for bringing the latter under control of said governor, planet gears



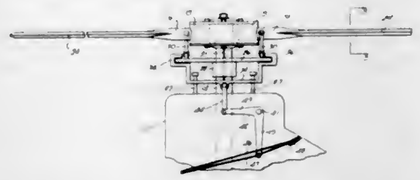
mounted on said governor for free rotation about axles fast with said governor, a sun gear meshing with said planet gears, a fly-wheel fast with said sun gear, a ring gear meshing with said planet gears and coaxial with the sun gear, and transmission means between the ring gear and the said valve means for bringing said valve means under control of said ring gear, whereby said valve means is under conjugate control of said governor and said fly-wheel.

2,613,751
HELICOPTER CONTROL
Allen F. Donovan, Kenmore, and Harold Hirsch, Buffalo, N. Y., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application February 4, 1947, Serial No. 726,260
15 Claims. (Cl. 170—135.74)



4. In a helicopter having a rotor drive power control and a manually operable rotor pitch control member, means including a device responsive to rotor speed and operatively connected to said power control, a manual control element carried by and movable relative to said pitch control member and operatively connected to said power control, means for locking said manual control element in a predetermined position relative to said pitch control member, and means for simultaneously unlocking said manual control element and rendering the speed responsive device ineffective to operate the power control.

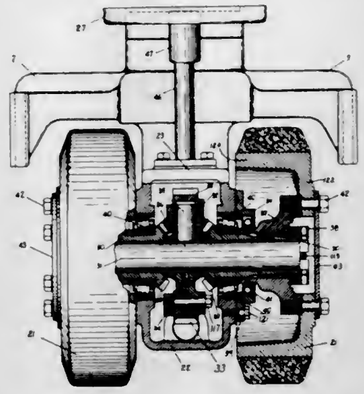
2,613,752
ADJUSTABLE PITCH PROPELLER FOR AIRCRAFT
Amos E. Hawkins, Hays, Va.
Application January 12, 1951, Serial No. 205,728
1 Claim. (Cl. 170—160.46)



In an aircraft, a fuselage, an upstanding propeller shaft journaled in said fuselage, a housing transversely secured to the end of said shaft, a pair of propeller blades rotatably secured to said housing in diametrically opposed radially extending positions relative to said shaft, the blades being rotatable around their respective longitudinal axes, a disc member surrounding said propeller shaft and mounted on the latter shaft for sliding non-rotative movement therealong, a lateral projection on each blade exteriorly of said housing, the respective projections extending in opposite directions, respective identical link bars connecting said projections to the disc member, said link bars being parallel and at right angles to the disc member when said blades lie in the same plane whereby the blades are simultaneously rotated around their respective axes responsive to movement of the disc member along the propeller shaft, a yoke member having diametrically opposed arms positioned below said disc member and surrounding said propeller shaft, a hook portion on the outer end of each of said arms and embracing the periphery of said disc member, an upstanding bolt positioned on each side of and spaced from said propeller shaft and extending loosely through the adjacent one of said arms of said yoke member and having the lower end fixed to the fuselage, a head on the upper end of each of said bolts and engageable with the upper surface of the adjacent one of said arms of said yoke member when the latter member is moved toward said housing, a bent lever pivotally connected at its intermediate portion to the fuselage, a link bar connecting one end of the lever to said yoke member, and a control cable connected to the other end of said lever.

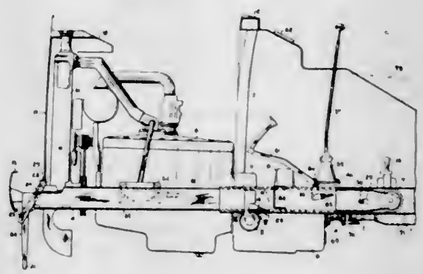
2,613,753
MOTORIZED DRIVE WHEEL ASSEMBLY FOR LIFT TRUCKS OR THE LIKE
Walter C. Stuebing, Jr., Cincinnati, Ohio
Application September 26, 1946, Serial No. 699,569
8 Claims. (Cl. 180—54)

1. In a truck structure of the character described, the combination of, a drive wheel assembly comprising a vertically projecting journal member which is adapted to provide for pivotal movement of the assembly about a vertical axis, a gear box rigidly fixed to said journal and positioned therebeneath, an axle shaft projecting horizontally through said gear box, a spider journalled on the central portion of said shaft, a plurality of pinions mounted in said spider with their axes positioned radially with respect to said shaft, a ring gear mounted on said spider and rigidly fixed thereto, a worm gear having its axis projecting substantially parallel to said vertical axis of the journal member, said worm gear being meshed with said ring gear to impart driving movement thereto, a pair of differential gears mounted on said shaft on the opposite sides of said spider and meshing with the opposite sides of said pinions whereby rotation of said ring gear imparts differential rotation to said differential gears, each of said differential gears having a sleeve portion which projects away from said spider and surrounds the respective portion of



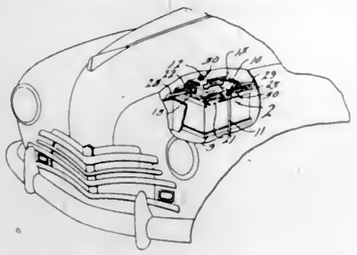
said axle shaft, a pair of wheels having hubs mounted respectively on said sleeve portions of said pair of differential gears, removable cover means fixed to each of said wheels and covering the ends of said sleeve portions of the differential gears and the shaft, and a pair of supporting bearings and grease seal assemblies mounted respectively on said sleeve portions and each providing a sealed bearing support from the gear box.

2,613,754
MOTOR VEHICLE ENGINE MOUNTING
Hubertus Josephus van Doorne, Deurne, Netherlands
Application May 24, 1948, Serial No. 28,949
In the Netherlands May 29, 1947
11 Claims. (Cl. 180—64)



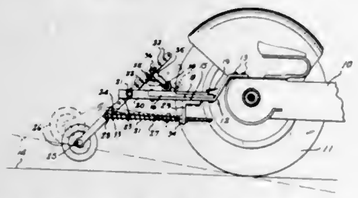
1. A self-propelled motor vehicle comprising a frame, an engine for driving said vehicle, means on said frame for supporting said engine, means on said frame for controlling and operating said engine for driving said vehicle, means permitting movement of said engine supporting means relative to said frame between fixed limits, and control conduit means continuously connected between said engine and said frame for operating said engine from said frame in any position of its supporting means between said limits, said conduit means including telescopic connections and means to lock said connections into position when said supporting means is in its vehicle driving position at one of said limits.

2,613,755
BATTERY HOLDING DEVICE
Charles A. Newby, Hazel Park, and Don W. Steinbrecher, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 16, 1949, Serial No. 133,334
1 Claim. (Cl. 180—68.5)



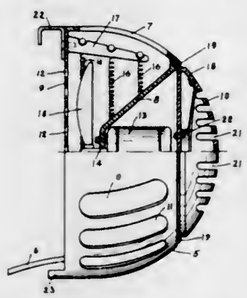
Apparatus for releasably clamping a battery in a predetermined location, including a supporting member for receiving the bottom of said battery, a pair of hold-down bolts, each located adjacent a different side wall of said battery respectively, a frame member receivable on the upper extremity of said battery including angular side members having top and side sections substantially parallel to the upper extremity and side walls respectively of said battery, an elongated raised lip on the free edges of said top sections of at least two of said frame side members, a pair of clamping members each engageable with one of said side members of said frame at a plurality of locations thereon and each including a first section having a flange interlockingly engageable with one of said raised lips respectively and a second section inclined at an acute angle to said first section and having an edge engageable with said side section of one of said side members respectively for bracingly holding said first section of said clamping member in a plane generally parallel to the upper extremity of said battery, said first and second sections of each of said clamping members having registering openings therein for receiving one of said hold-down bolts respectively, and means on said hold-down bolts engageable with said first sections of said clamping members for retaining said clamping members in selected fixed positions relative to said frame and securely fixing said battery against movement relative to said support.

2,613,756
AUTOMATIC ENGINE CUTOFF FOR TRACTORS
Wilbert P. E. Smith, Thomaston, Conn.
Application December 17, 1948, Serial No. 65,882
5 Claims. (Cl. 180—82)



3. An attachment for a tractor for short circuiting the ignition system of the same upon elevation of the tractor front end comprising a current conducting horizontally disposed bracket arranged longitudinally of said tractor adjacent the rear end thereof and having one end secured to the rear end of the tractor, a stationary contact plate positioned upon said bracket inwardly of and spaced from said one end of said bracket and mounted in said bracket in insulated relation with respect to the latter, means electrically connecting said contact plate to said ignition system, an upstanding contact arm positioned adjacent the other end of said bracket, the lower end of said contact arm being normally spaced from the tractor supporting surface, horizontal pivot means secured to the other end and extending transversely of said bracket and pivotally and electrically connecting said contact arms intermediate its ends to said bracket for swinging movement in a vertical plane, and an upstanding contact member arranged longitudinally of said arm adjacent the upper end of said arm and having the upper end pivotally and electrically connected to said arm intermediate the upper end of the latter and said pivot connection of said arm to said bracket and having the lower end normally in bearing engagement with the portion of said bracket intermediate said stationary contact plate and the other end of said bracket, the lower end of said contact arm being engageable with the ground surface upon predetermined elevation of the front end of the tractor.

2,613,757
PORTABLE LOUD-SPEAKER HEATER ATTACHMENT FOR DRIVE-IN THEATERS
Herman M. Melzer, McKeesport, Pa.
Application February 7, 1949, Serial No. 74,931
8 Claims. (Cl. 181—31)



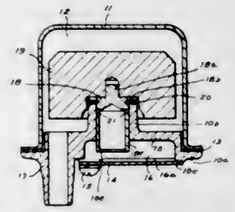
1. A portable speaker and heater attachment for insertion in passenger automobiles when parked in outdoor theaters comprising an housing having a body portion substantially in the shape of a truncated shell with air passage openings therethrough, a plate closing one end of said shell and also having air openings therethrough, a supporting bracket structure secured to said shell, a fan mounted on said supporting bracket structure for drawing air in through one of said openings and exhausting air out through the other of said openings, heating elements for heating the air being moved by said fan, a speaker mounted on said shell and covering the other end thereof, and supporting elements for mounting said attachment within the passenger compartment of an automobile with said plate spaced from the surfaces defining the interior of such compartment comprising a hook secured to said housing for supporting engagement over the upper edge of an automobile window, and a leg projecting outwardly from said plate and spaced from said hook for abutting engagement with a surface of the window at points spaced from its upper edge to maintain said plate spaced from the window so as to allow free movement of air through the openings therein.

2,613,758
BAFFLE TYPE MUFFLER WITH SOUND ABSORBING MATERIAL
Douglas Jack Wayth Cullum, London, England
Application December 19, 1949, Serial No. 133,810
In Great Britain October 14, 1948
1 Claim. (Cl. 181—50)



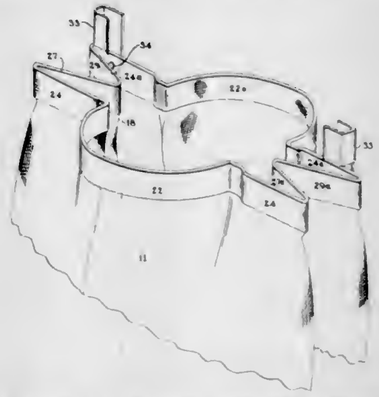
Noise suppressing apparatus for use in testing jet engines, comprising a cylindrical muffler tube, an interior lining of sound absorbing material for said tube, a protective perforated liner for said material, said tube with its sound absorbing lining and perforated liner comprising a gas entrance portion of frusto-conical section providing greater thickness of sound absorbing material at the entrance end of said portion than at the remote end of said portion, an intermediate portion wherein the annular space for the sound absorbing material between the tube and the liner is of uniform cross-section along the entire length of the intermediate portion, and a gas discharge portion wherein the liner flares outwardly towards the outer end of the tube providing a diminishing thickness of sound absorbing material between the tube and the liner, a hollow conical perforated baffle located within said gas discharge portion with the mouth of the baffle directed towards the entrance portion of the tube and co-extensive with the outer end of the intermediate portion of the tube, an imperforate conical cap attached to the rear end of the frusto-conical baffle, an imperforate plate closing the outer end of said baffle, a perforated hollow core supported co-axially within the intermediate portion of the tube and extending from inside the entrance end of the intermediate portion to inside the mouth of said baffle and forming with the intermediate portion an annular gas channel leading to the mouth of the baffle, imperforate conical deflectors closing the ends of the core, and a filling of sound absorbing material within the core.

2,613,759
VACUUM REGULATOR FOR MILKING SYSTEMS
Walter A. Scott, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application December 6, 1949, Serial No. 131,453
5 Claims. (Cl. 183—41)



1. In a vacuum regulator for the vacuum pipe line of a milker system, and which comprises a housing having a chamber provided with an air outlet adapted to be connected to the interior of the pipe line, the combination of a hollow boss extending upward into said chamber and forming an elongated air inlet passage leading upward from atmosphere to said chamber, a valve member reciprocable vertically in the chamber and having a shoulder normally seated on said boss to close the chamber from atmosphere, and a depending hollow tube on the valve member extending downward through said passage and having a close sliding fit therein, the tube being closed at its upper end except for a lateral port which, when said shoulder is seated, is located below the upper end of the inlet passage and closed by the passage wall, the lower end of the tube being in open communication with atmosphere and, when said shoulder is seated on said boss, projecting downward from the lower end of the passage for a distance at least as great as the distance between said port and the upper end of the passage, whereby the tube covers the lower part of the passage wall when the valve member is raised to elevate the port above the inlet passage, the atmospheric pressure acting upon said closed upper end of the tube and upon the lower end thereof being operable to raise the valve member and elevate said port above the inlet passage, thereby admitting air through the tube and port to said chamber.

2,613,760
EXPANDING MOUTH FILTER FOR SUCTION CLEANING DEVICES
Uncas A. Whitaker, Harrisburg, Pa., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application June 22, 1951, Serial No. 233,020
10 Claims. (Cl. 183—51)



1. A filter for suction cleaners comprising a tubular body of filter material having a permanently closed end and an open end, a foldable frame secured to the open end of said filter comprising a pair of opposed principal members each having inlet mouth forming portions provided with projecting side arms, foldable members connecting the ends of corresponding side arms and foldable between said side arms outwardly of said mouth forming portions to bring said mouth forming portions together.

2,613,761
AUXILIARY SPRING ATTACHMENT FOR MOTION-PICTURE CAMERAS
Joseph J. Golick and Robert L. Moore, Chicago, Ill., assignors to Revere Camera Company, Chicago, Ill., a corporation of Delaware
Application July 29, 1949, Serial No. 107,416
7 Claims. (Cl. 185—40)

1. An auxiliary spring attachment for a motion picture camera comprising a housing, a plu-

rality of series connected coil springs within said housing, means for winding said springs, a universal joint for transferring energy from said springs to the winding key of said camera, said universal joint including a shaft rotatable by said springs, a plate fixed to said shaft, a pair of spaced studs on said plate, an annular ring carried by said studs in tiltable relation with said

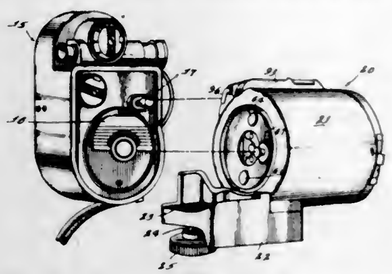
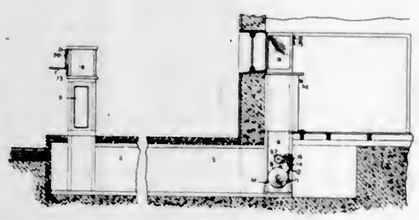


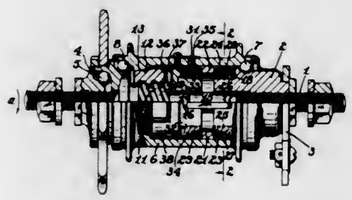
plate and a key engaging stud on said ring, a base member extending from said housing, a bolt through said base member for engagement with the threaded tripod hole of said camera, and a brake cooperating with said bolt, said brake being operative to prevent release of spring energy except when the attachment is mounted on said camera.

2,613,762
DRIVE-IN SERVICE DEVICE
Sherman E. McClintock, Orlando, Fla., assignor of one-half to Paul J. Stine, Orlando, Fla., and one-half to Imogene McClintock
Application July 9, 1949, Serial No. 103,779
11 Claims. (Cl. 186—1)



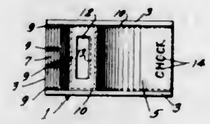
7. Conveyor apparatus for use as a banking or store service device comprising a vertically mounted customer tower, a vertically mounted service tower and a passage connecting said towers and forming with said towers a passageway extending from adjacent the top of one tower to adjacent the top of the other tower, conveyor means located in said passageway and extending from adjacent the top of one tower to adjacent the top of the other tower, a receptacle, means pivotally mounting said receptacle on said conveyor means, track means in said passage and said towers, said receptacle having anti-friction means for engaging said track means, a door adjacent the top of said customer tower, said track means having a discontinuous portion adjacent said door, and means adapted for engagement with said receptacle and causing the same to swing on its pivotal mounting when the anti-friction means of said receptacle is opposite the said discontinuous portion of said track, and when said receptacle and said door are in juxtaposed position, said receptacle engagement means being mounted on said door whereby the operation of said door causes tilting of said receptacle when they are in juxtaposed position, electrical means for driving said conveyor means and electrical control means including brake means for discontinuing the electrical drive means and applying said brake means when said receptacle is opposite to the door on said customer tower.

2,613,763
COASTER BRAKE FOR VELOCIPEDES
William J. Campbell, Elmira Heights, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application April 29, 1948, Serial No. 23,890
1 Claim. (Cl. 188—26)



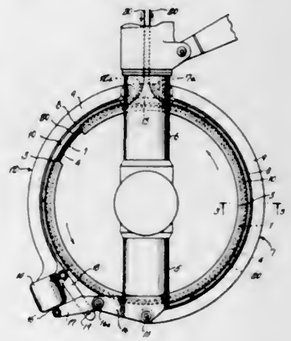
In a coaster brake an axle, an anchor member non-rotatably mounted adjacent one end of the axle, a control member rotatably mounted on the axle adjacent the other end thereof, a hub rotatably mounted on the anchor member and control member, an expander member slidably mounted on the axle, means slidably but non-rotatably connecting the expander member to the anchor member, said expander and anchor members having inwardly tapering portions, cylindrical brake shoes having interior flared surfaces bearing on the tapered surfaces of the expander and anchor members, means actuated by the control member for moving the expander member toward the anchor member to expand the brake shoes into frictional contact with the interior of the hub, the tapered surfaces of the anchor member and brake members being formed with axially extending recesses which run out of the parts at one end, and terminate in a radial abutment at the other end; said recesses being arranged to register and thereby cooperate to form substantially cylindrical chambers, the ends of which are formed by said radial abutments; and cylindrical compression springs occupying said chambers and maintained under compression by said abutments.

2,613,764
CHOCK BLOCK FOR VEHICLES
Edward C. Worden, Averill Park, N. Y.
Application November 15, 1949, Serial No. 127,313
7 Claims. (Cl. 188—32)



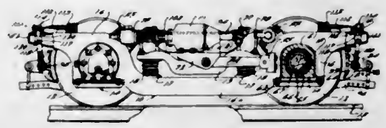
1. A chock block for wheels of highway vehicles which comprises a generally wedge shaped, hollow member having its forward end face concave and a segment of a cylinder with a curvature approximately fitting the periphery of a wheel against which it may be wedged and continuing downwardly to substantially the level of the bottom of said member, said member having a row of short, depending teeth along its forward edge, and another row of longer and larger teeth along its rear edge, said member having a rearwardly extending flange along its rear edge, and stiffening webs connecting sides of said longer teeth and said flange to brace them against flexing.

2,613,765
BRAKE
Henry James Butler, Sutton Coldfield, England, assignor to Dunlop Rubber Company Limited, London, England, a British company
Application June 1, 1949, Serial No. 96,425
In Great Britain June 4, 1948
17 Claims. (Cl. 188—75)



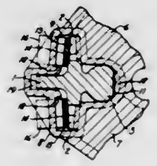
11. A vehicle drum brake comprising a wheel, a metal drum rotatable with the wheel, braking means comprising a non-rotatable friction member, means for moving the friction member towards the drum and an endless belt of heat conductive material which has a portion interposed between the drum and the friction member and is driven by rotation of the drum during a braking operation and has a further portion free from contact with the drum and friction member whereby heat generated on braking is dissipated into the atmosphere as the belt moves out of engagement with the friction member and the brake drum.

2,613,766
BRAKE RIGGING
Archie M. Miers, Croton-on-Hudson, N. Y., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 24, 1948, Serial No. 61,805
11 Claims. (Cl. 188—205)



3. In a brake beam suspension for a railway car truck, a truck frame provided with a vertically extending opening therethrough, a hanger support movably mounted in said opening including a vertically extending bolt portion having an end disposed above said frame opening and a downwardly opening, U-shaped, yoke portion disposed beneath said frame opening, a horizontally extending projection carried by the end of said bolt portion spaced above said frame opening, a resilient member surrounding said bolt portion and disposed between the projection on said bolt portion and the frame member, vertically slotted, depending, frame flanges adjacent the legs of said U-shaped yoke portion, a hanger member pivotally connected to the yoke portion of said hanger support by bolt means, said bolt means extending through the hanger member, through the slots of said frame flanges and through said yoke portion, said bolt means thereby connecting the suspension to the frame member and providing guide means for the movement of said hanger member, said slotted flanges also providing seats to limit the movement of and to rigidly support said hanger member when the brakes are applied.

2,613,767
BRAKE BEAM
Charles K. Stillwagon, Johnstown, Pa., assignor to Davis Brake Beam Company, Johnstown, Pa., a corporation of Pennsylvania
Application January 21, 1950, Serial No. 139,874
7 Claims. (Cl. 188—219.6)

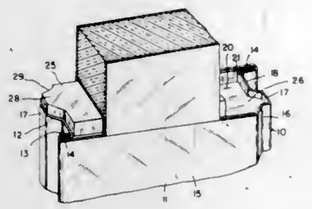


1. A brake beam comprising a compression member having a substantially horizontal bar-like body provided integrally along its front edge with vertical flanges extending above and below it, a tension rod having end portions extending centrally along the front of the end portions of the compression member and integral therewith to form a truss, brake heads provided with recesses having the general shape of the ends of the truss for receiving those ends, the ends of the truss within the recesses being provided with rearwardly extending depressions, the brake head recess walls in front of said depressions having projections extending into the depressions to hold the heads against movement lengthwise of the truss, the back of said bar-like body in each recess being provided with a notch extending the full width of the recess to space the back walls of said recesses from the back of the truss a distance greater than the distance said projections extend into the depressions, the brake heads being movable forward on the truss to remove said projections from the depressions, and spring keys behind the truss extending lengthwise thereof through the brake head recesses in which they are compressed between the heads and compression member for holding the heads back against the front of the truss, each key projecting from the opposite sides of the adjoining brake head and having bent end portions to hold the key in place.

2,613,768
END FILLER FLASH SECTION
William Gillett, Grosse Pointe Park, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan
Application June 1, 1948, Serial No. 30,383
5 Claims. (Cl. 189—34)

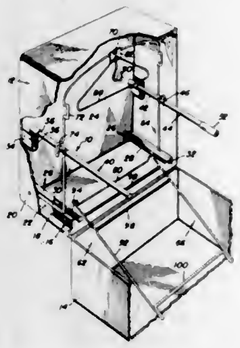
1. Wall structure comprising a plurality of hollow elongated sheet metal panels having flat sides assembled together in edge to edge and in end to

end relationship, said panels having interfitting ribs and grooves at their edges, the end portions of the sides and edges of said panels forming a continuous wall completely surrounding the ends of said panels and terminating in a plane perpendicular to the length of said panels, end closure members within the ends of said panels, said end closure members being of U-shaped cross-section and including bottom walls spaced inwardly from the plane occupied by the ends of the sides and edges thereof, said end closure members having side flanges engaging the inner



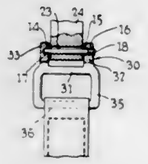
surfaces of the sides of said panels, said flanges having their free edges co-terminal with the ends of said panels, the ends of said panels and said end closure members defining shallow pockets having bottom, side and end walls, and an end filler flash plate located between each pair of end to end panels, each end filler flash plate being partially seated in each of a pair of confronting pockets at the ends of a pair of end to end panels to mechanically interconnect said pair of panels and to prevent relative lateral movement therebetween in any direction.

2,613,769
DRESS SEPARATOR FOR WARDROBE TRUNKS OR SUITCASES
Joseph Staffa, Chicago, Ill.
Application June 24, 1948, Serial No. 34,912
6 Claims. (Cl. 190—41)



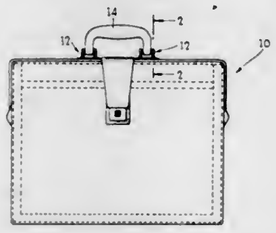
2. A wardrobe trunk comprising a housing, a lower pair of guides mounted in said housing, an upper pair of guides also mounted in said housing and overlying and paralleling said lower guides, a frame slidably supported on all of said guides, means carried by the upper guides for confining said frame within said housing, means within said housing and overlying said lower pair of guides for retaining the frame on the lower pair of guides, and additional means engaging said retaining means for further aiding in confining the frame within the housing.

2,613,770
LUGGAGE HARDWARE
David Levine, New York, N. Y., assignor to Crest Lock Co., Inc., New York, N. Y., a corporation of New York
Application October 21, 1948, Serial No. 55,671
2 Claims. (Cl. 190—58)



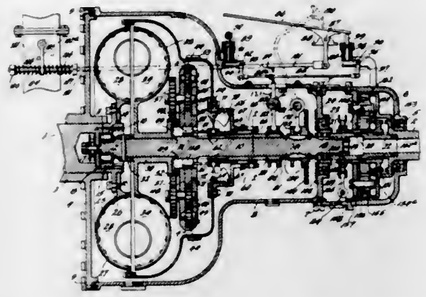
1. A ring for connecting a preformed loop of a piece of luggage to a preformed loop of a handle, said ring comprising a U-shaped member including a base and substantially parallel widely spaced legs, said ring additionally comprising a pintle, one end of said pintle being larger than the other, said legs having aligned facing apertures formed therein, the opposite ends of said pintle being received in said apertures, the aperture which receives the larger end of the pintle being a through aperture and having a diameter slightly smaller than the diameter of said larger end, the other aperture slidably receiving the smaller end of the pintle, whereby with the base of the U-shaped member in one of the preformed loops, the smaller end of the pintle can be threaded first through the through aperture and then through the other preformed loop after which said small end is slidably received in its aperture as the larger end is force-fitted in the through aperture.

2,613,771
ARTICLE OF LUGGAGE HARDWARE
David Levine, New York, N. Y., assignor to Crest Lock Co., Inc., New York, N. Y., a corporation of New York
Application April 29, 1949, Serial No. 90,295
4 Claims. (Cl. 190—58)



1. A pre-fashioned article of luggage hardware comprising a pair of posts, an escutcheon plate having two through openings therein, said pair of posts extending through said openings and projecting to both sides of the escutcheon plate, each post having a shoulder in one piece therewith abutting against the outer surface of the escutcheon plate, each said post having a second shoulder in one piece therewith abutting against the under surface of the escutcheon plate, the upwardly projecting portions of the posts including means to engage a bar and the downwardly projecting portions of the posts including means independent of said shoulders to engage a piece of luggage.

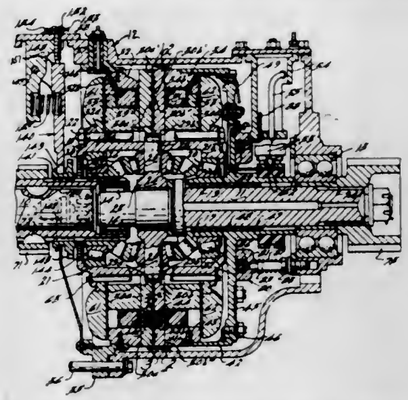
2,613,772
POWER TRANSMISSION MECHANISM
Edward John Thurber, New Orleans, La., assignor to The Thurber Corporation, New Orleans, La., a corporation of Louisiana
Application April 19, 1945, Serial No. 589,180
33 Claims. (Cl. 192—.07)



1. Power transmission mechanism comprising a power input element, a primary fluid coupling embodying rotatable juxtaposed complemental vaned pump and motor members, said pump member being connected to the input element to be driven thereby, and said members being operative to transmit from one to the other a torque the magnitude of which is variable according to their relative speed of rotation, and a secondary fluid coupling embodying a driving member connected to said motor member of the primary fluid coupling to rotate therewith and a driven member to which torque is transmitted from said driving member, and means for varying the amount of torque transmitted between said driving and driven members of the secondary fluid coupling independently of the relative speed of rotation of said pump and motor members of the primary fluid coupling, said means for varying the amount of torque transmitted between the driving and driven members comprising a plurality of control elements operable manually at will and automatic control means, including speed responsive means for controlling said torque varying means of said secondary fluid coupling.

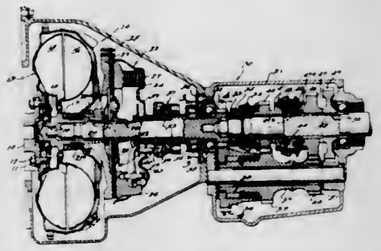
2,613,773
TRANSMISSION AND CONTROLS THEREFOR
Henry W. Gilfillan, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 5, 1951, Serial No. 224,779
20 Claims. (Cl. 192—4)

1. In a transmission comprising a housing journalling a pair of axially aligned driving and driven shafts, a differential gear set connected between said shafts comprising a carrier case containing said gear set extending between and mounted for rotation relative to said shafts, a side gear drivingly mounted on each of said driving and driven shafts, said side gears being arranged in spaced apart, opposed relationship within said carrier case, pinion gearing journalled in said carrier case and arranged to extend between and meshingly engage said side gears, a first pair of armatures arranged concentrically about the central portion of said carrier case in substantially face-to-face relationship, said first pair of armatures each being drivingly connected to and mounted on said carrier case for movement axially thereof, a second pair of armatures arranged concentrically about said carrier case and drivingly connected thereto, said second pair of armatures being arranged on opposite sides of said first pair of armatures, an electromagnetic brake element fixed to said housing having portions arranged between a pair of said first and second armatures, energization of said brake element being effective to engage said brake portions and a pair of said first and second armatures to anchor said carrier case to said housing to provide means for the drive of said driven



shaft in a direction opposite to that of said driving shaft, and an electromagnetic clutch element carried by said driven shaft having portions arranged between the other pair of first and second armatures, energization of said clutch element being effective to engage said clutch portions and said other pair of armatures to drivingly connect said carrier case and said driven shaft to provide means for the drive of said driven shaft in the same direction as said driving shaft.

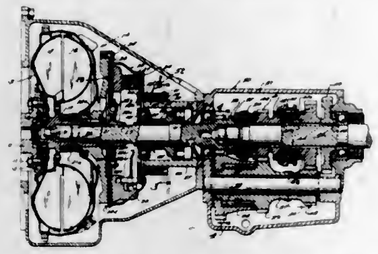
2,613,774
VEHICLE BRAKE
Carl A. Neracher and William T. Dunn, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 1, 1946, Serial No. 651,253
24 Claims. (Cl. 192—4)



1. The combination with an engine, a change-speed transmission having an input shaft and an output shaft and settable in a first driving arrangement involving rotation of the shafts in the same direction and in a second arrangement involving rotation of the shafts in opposite directions, and a clutch having a driving side adapted to be drivingly connected with the engine and a driven side adapted to be drivingly connected with the input shaft of the transmission; of a one-way brake associated with the driving side of the clutch for preventing during engagement of the clutch the output shaft from rotating the input shaft in a direction opposite to that produced

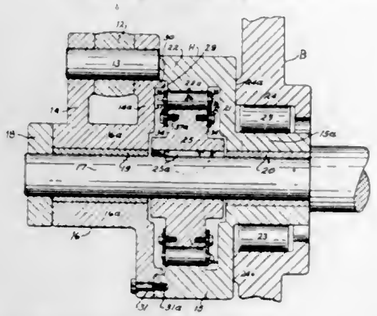
by normal engine operation with the transmission either in the first drive-transmitting arrangement or in the second drive-transmitting arrangement.

2,613,775
VEHICLE BRAKE
William T. Dunn, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 22, 1947, Serial No. 749,729
34 Claims. (Cl. 192—4)



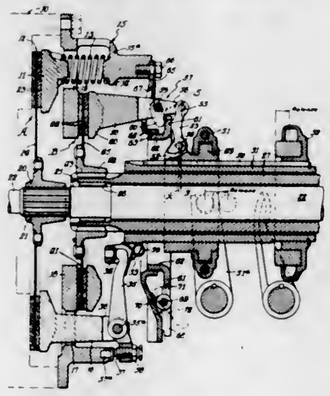
1. The combination with an engine, a change-speed transmission, a fluid power-transmitting device, means drivingly connecting the engine and the fluid power-transmitting device, and means drivingly connecting the change-speed transmission and the fluid power-transmitting device, of a one-way brake associated with the last mentioned means and including a spiral member adapted to change its twist in response to drive transmitted thereto in one direction or the other thereby to grip or to release, and means associated with the spiral member for causing sufficient speed of the spiral member in the direction producing release of the spiral member to eliminate drag of the spiral member.

2,613,776
FEED CLUTCH FOR COLD HEADERS
John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio
Application April 8, 1946, Serial No. 660,571
2 Claims. (Cl. 192—45)



1. In combination, a machine frame having a bore thereon, a driven shaft, an overrunning clutch for driving said shaft, said clutch comprising a first clutch member fastened to said shaft, a second clutch member having an annular portion surrounding said first clutch member, said annular portion being joined to a pair of oppositely extending axially apertured support portions, said support portions being journaled to said shaft, said second clutch member also being journaled within said bore in said machine frame, a series of ratchet members disposed between said first and second members, and crank means on said second clutch member for connection to an associated mechanism.

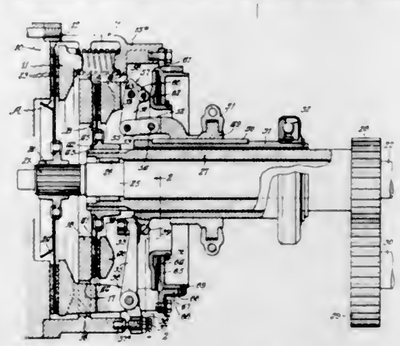
2,613,777
COMBINATION SPRING-LOADED AND OVERCENTER CLUTCH
Raymond A. Carlson, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application July 14, 1948, Serial No. 38,685
13 Claims. (Cl. 192—48)



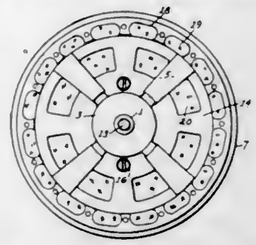
7. In a friction clutch, a first driven plate; a flywheel and a first pressure plate between which said driven plate is adapted to be engaged; an annular back plate in axially spaced relation to said first pressure plate; a second pressure plate alongside said back plate; a second driven plate between said back plate and second pressure plate for engagement therewith; spring means normally urging said first pressure plate in a direction to engage said first driven clutch plate against said flywheel; a clutch housing attached to and driven by said flywheel, said back plate being secured to said housing and lying between said first and second pressure plates; the respective pressure plates being drivingly connected to said flywheel; and means for selectively operating the respective pressure plates, the means operating said second pressure plate comprising bracket means extending radially inward from said housing, abutment means spaced rearward from said bracket means, cam means adapted for engagement with said abutment means and arranged between said bracket means and said abutment means, an axially movable thrust bearing, and over-center linkage connecting said thrust bearing to said cam means, said linkage arranged in bridging relation to said abutment means and rearward from said bracket means for effecting locked engagement of said second clutch assembly.

2,613,778
MULTIPLE FRICTION CLUTCH
Raymond A. Carlson, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 7, 1944, Serial No. 567,013
32 Claims. (Cl. 192—48)

1. In a friction clutch, a first driven plate; a flywheel and a first pressure plate between which said first driven plate is adapted to be engaged; an annular back plate in axially spaced relation to said first pressure plate; a second pressure plate alongside said back plate; a second driven plate between said back plate and second pressure plate for engagement therewith; spring means normally urging said first pressure plate into engagement with said first driven plate; means for selectively operating the respective pressure plates including over-center cam means for effecting engagement and locking of the second pressure plate and second driven plate; a clutch housing attached to and driven by said flywheel, said back plate being secured to said housing; means for effecting a driving connection between said first pressure plate and said back plate; and means for effecting a driving connection between said second pressure plate and said back plate.



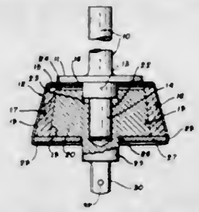
2,613,779
VANE TYPE HYDRAULIC CLUTCH OR COUPLING
Francis H. Milford, Syracuse, N. Y.
Application October 12, 1950, Serial No. 189,860
4 Claims. (Cl. 192—58)



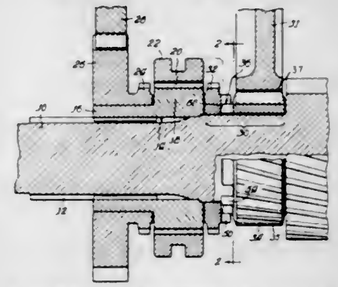
1. A hydraulic clutch comprising concentric rotatable driving and driven members, the driving member having vanes within the driven member, and the driven member having a cylindrical working chamber having end walls closing the ends thereof, the vanes running at their outer ends and lateral side edges close to the cylindrical wall and the end walls of the working chamber, the clutch being characterized by forming the cylindrical wall of the chamber, at least for the most part, of compressible, resilient, deformable material which deforms and forms recesses or pockets under the internal pressure generated in the fluid by the centrifugal force created during the rotation of the driving member.

2,613,780
DRIVER COUPLER ATTACHMENT
Kenneth R. Larson, Des Plaines, Ill.
Application January 5, 1946, Serial No. 639,444
10 Claims. (Cl. 192—66)

1. In a self-contained driver attachment unit of the character described, the combination with a driver casing, of an annular member in said casing, said annular member being complemental to the interior of said casing for permitted frictional reaction therewith, said annular member having axial movement within said casing for normal inoperative gravity displacement therefrom and for frictional operative connection therewith responsive to downward displacement of said casing relative thereto, and a driven member journalled in said casing for operative frictional connection with said annular member.



2,613,781
POSITIVE CLUTCH FOR A POWER TRANSMISSION
John B. Polomski and George Karos, Detroit, Mich., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 18, 1949, Serial No. 82,238
10 Claims. (Cl. 192—67)

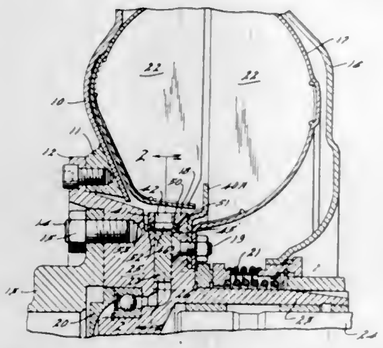


1. In a power transmission, a clutch assembly including a pair of aligned, interengageable clutch members, one of said clutch members being slidable axially relative to the other into and out of engagement with the latter, said members being capable of interlocking engagement with each other whereby the members rotate as a unit when the clutch is engaged, said other member being formed in two axially spaced confronting sections, one section being engageable with the slidable member when the clutch assembly is engaged and the other section of which is adapted to apply torque to or receive counter-torque from a variable load, and constantly intermeshed means on the confronting end faces of said two spaced sections, said intermeshed means having clearances between them sufficient to permit lost motion therebetween and rocking movement of one section relative to the other section.

2,613,782
SYNCHRONIZED CENTRIFUGAL CLUTCH
Edwin R. Maurer, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Original application February 19, 1945, Serial No. 578,631. Divided and this application July 24, 1948, Serial No. 40,567
13 Claims. (Cl. 192—105)

1. A power transmitting clutch mechanism comprising a rotatable driving member, a coaxial

driven member, a centrifugally responsive pawl carried by one of said members and interengageable with the other of said members at a predetermined rotative speed of said one member and substantially synchronous rotation of said members, a ring having a cylindrical outer wall in alignment with said pawl transversely of the member axis,

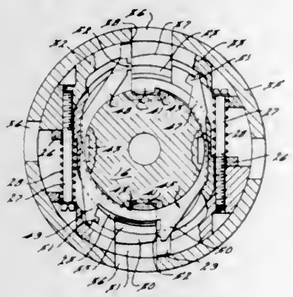


said wall having a slot through which the pawl may be projected and having a portion adjacent the opposite circumferential ends of said slot for blocking engagement of said pawl during asynchronous rotation of said members and spring means for biasing said ring into frictional drive connection with said other member.

2,613,783
SYNCHRONIZED CENTRIFUGAL PAWL CLUTCH

Edwin R. Maurer, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Original application February 19, 1945, Serial No. 578,631. Divided and this application July 24, 1948, Serial No. 40,568
8 Claims. (Cl. 192—105)

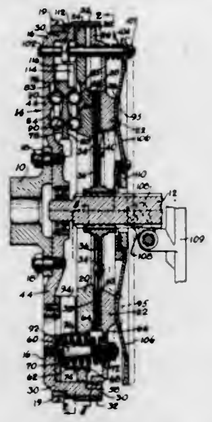


1. A power transmitting clutch mechanism comprising a driving member, a driven member, a centrifugally responsive pawl carried by one of said members, radially aligned openings in said other member for receiving said pawl at a relatively slow and a relatively fast rotative speed respectively of said one member and substantially synchronous rotation of said members, and rotatable means in frictional driving connection with said other member movable into blocking relationship relative to said pawl at predetermined rotative speed of said one member intermediate said slow and fast speeds for preventing engagement of said pawl at said fast speed of said one member during asynchronous rotation of said members.

2,613,784
CENTRIFUGAL CLUTCH

Roland Chilton, Glen Rock, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application January 24, 1947, Serial No. 724,045
4 Claims. (Cl. 192—105)



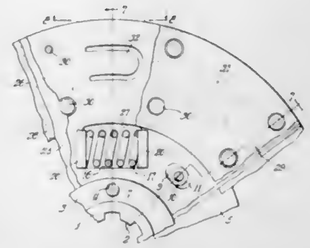
1. A centrifugal clutch comprising a rotary input member, a pair of clutch members co-axial with said input member, means drivably connecting one of said clutch members with said input member, said clutch members being movable toward each other for effecting clutch engagement, a weight rotatable with said input member and being radially movable relative to said input member in response to the centrifugal force acting on said weight, said weight having a wedge portion, roller means cooperating with said wedge portion for moving said clutch members into engagement in response to radially outward movement of said weight, an annular rim on said input member and surrounding said weight for limiting radially outward movement of said weight, an abutment rotatable with and movable relative to said input member, and means for moving said abutment to a position approximately radially outwardly of the center of gravity of said weight in engagement with the inner surface of said input member rim and between said input member rim and said weight to prevent clutch engagement by radially outward movement of said weight.

2,613,785
CLUTCH PLATE WITH VIBRATION DAMPENER

Leslie F. Mohns, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application July 10, 1947, Serial No. 759,959
8 Claims. (Cl. 192—107)

1. A vibration dampener for a clutch driven plate comprising a hub having a flange; plates on opposite sides of said hub flange; means anchoring said plates to said hub flange; a disc on said hub between said plates and extending radially outwardly beyond the margins of said plates, said disc and said plates having circumferentially spaced registering openings therein; coil springs in said openings, said springs effecting a driving connection between said disc-like means and plates and being adapted to effect limited relative rotation between said disc-like means and plates; and abutment clips of U-section at opposite radial end margins of the openings in said disc for engaging the ends of said springs; the arms of the U-section extending along the sides

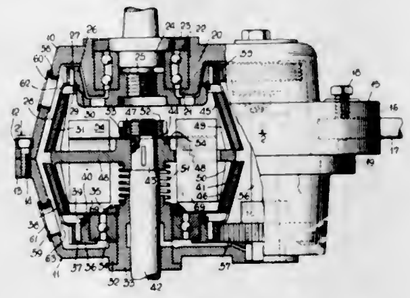


of said disc and spacing said plates axially from the adjacent sides of said disc.

2,613,786
AIR-COOLED TAPPING ATTACHMENT

Melvin H. Emrick, Jamaica, N. Y.

Application January 15, 1949, Serial No. 71,179
8 Claims. (Cl. 192—113)



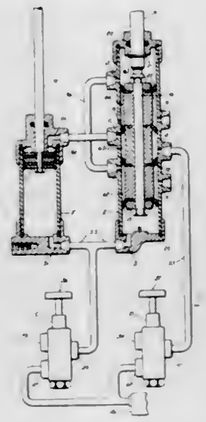
1. In tapping attachments of the class described employing a casing, a drive spindle and a driven shaft in the casing, forward and reverse drive conical shells, means placing said shells in operative engagement with the drive spindle, a double-faced conical clutch head intermittently movable into engagement with said shells in the forward and reverse drive of the driven shaft, said head having a central hub portion joining the periphery of the head in a web structure, a fan element detachably mounted on the hub and engaging the web structure, said conical drive shells having circumferentially spaced apertures, and said casing adjacent the apertures of said shell having vent passages, whereby in the operation of the attachment, a forced circulation of air is provided through the attachment by said fan element.

2,613,787
TWO-HAND SAFETY CONTROL FOR POWER MACHINERY

Charles W. Ledig, Cranford, N. J., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass., a corporation of Delaware

Application August 26, 1948, Serial No. 46,193
5 Claims. (Cl. 192—131)

1. In a safety control system for power machinery, a cylinder having a piston movable therein, means for admitting pressure fluid to move said piston in a direction to initiate a single working stroke of said power machinery, and means responsive to such piston movement to exhaust pressure fluid from said cylinder, to return said piston to its initial position, said last named means including a control valve interposed between said cylinder and a source of pressure, said control valve including a second cylinder and a flow controlling element reciprocating in said cylinder, means movable with said piston for moving said flow controlling element

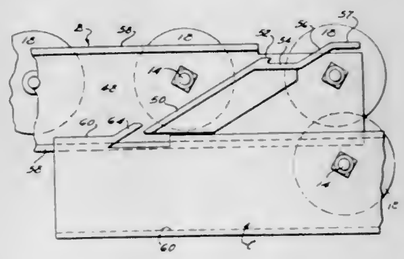


in one direction, and means responsive to the operation of said last named means to establish a fluid pressure balance within said second cylinder, which fluid pressure balance operates to lock said flow control element in a position preventing further application of actuating fluid pressure to said piston following the return of said piston to said initial position.

2,613,788
TELESCOPING CONVEYER LINE

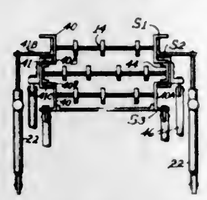
John J. McLaughlin, Philadelphia, Pa., assignor to The Wilkie Company, a partnership comprising John J. McLaughlin and Harvey Yellin, Philadelphia, Pa.

Application December 2, 1949, Serial No. 130,761
4 Claims. (Cl. 193—35)



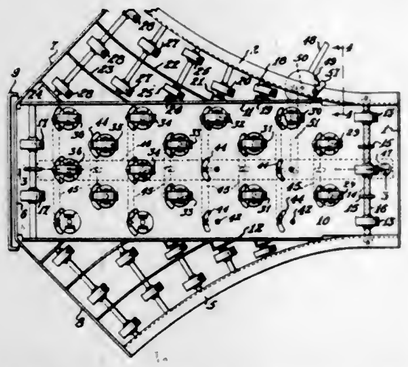
1. An article conveyor comprising a plurality of sections having channel sides, said channel sides being reversed in each successive section, a slide coupling joining any two successive sections, said coupling comprising an inclined plane projecting from the web of the channel side of one section, a horizontally extending portion at the top of said inclined plane, and an inclined lug projecting from the top flange of the channel sides of successive sections, said incline lug engaging said inclined plane when said successive sections are relatively extended whereby the top flange of said successive sections will lie upon said horizontally extending portion.

2,613,789
GRAVITY CONVEYER SECTION
John J. McLaughlin, Philadelphia, Pa., assignor to The Wilkie Company, Philadelphia, Pa.
Application January 14, 1947, Serial No. 721,909
1 Claim. (Cl. 193—35)



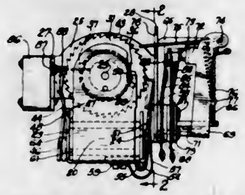
In an extensible gravity conveyor, a plurality of telescopic conveyor sections, one being the main conveyor and the other a telescopic section, each section comprising side frame channel members, rotatable wheels carried by cross-members between said channel members, said channel members of one section being oppositely disposed and interfitting with the channel section of its adjacent section whereby the sections may be telescoped to any desired length, a flange of one side section lying upon the flange of said other section, the upper flange of the lowermost section being above and in engagement with the lowermost flange of the upper section, and the lowermost section being solely supported by said flange of the upper section both when collapsed and when in open position, ground elevating means at each end of the main conveyor section, and ground elevating means at only one end of said telescopic conveyor section.

2,613,790
SWITCHING MEANS FOR CONVEYERS
Franklin B. Schottelkotte, St. Bernard, Ohio, assignor to The E. W. Buschman Co., Cincinnati, Ohio, a corporation of Ohio
Application March 7, 1947, Serial No. 733,071
7 Claims. (Cl. 193—36)



1. A switching device for a conveyor comprising a frame with portions for juxtaposition to an entering conveyor and to straight-away and to branch exit conveyors; a series of rollers for the support and movement of an article over said frame, said rollers being arranged in a plurality of parallel rows, each of said rollers being mounted in a member swiveled with respect to said frame; and means for shifting the axes of said rollers so as to control the direction of movement of an article delivered to the device from an entering conveyor and cause it selectively to leave the device on one of the exit conveyors, said shifting means including a lever pivoted at one end to said frame, a link for each row of said rollers, each of said links being pivotally connected to each of the swiveled members in its respective row, and a pivotal connection between each link and said lever, said connections from said links to said lever being at progressively greater distances from the pivot for said lever, and means for moving said lever about its pivot.

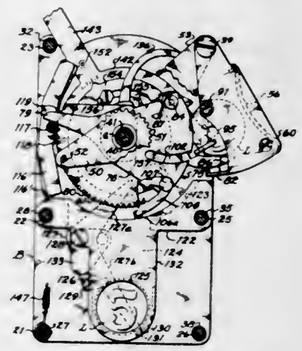
2,613,791
ELECTRICALLY OPERATED ACCUMULATOR
Eugene L. Trifman, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application July 13, 1949, Serial No. 104,411
8 Claims. (Cl. 194—9)



1. In a machine of the class described having coin-receiving means including a plurality of coin chutes for discharging deposited coins of different denominations, and an accumulator for registering the total units of value of deposited coins, comprising a first ratchet, means for actuating said ratchet, at least one other ratchet, and means interconnecting said first and other ratchets for permitting relative movement between said first and other ratchets in degrees corresponding respectively to particular multiples of a unit of value; means for controlling operation of said accumulator, comprising a latch lever normally engaging said first ratchet to restrain the same against movement by said actuating means, a plurality of detent arms associated respectively with said ratchets and normally disengaged therefrom, and electrical means for selectively operating said arms and said lever to disengage the latter from said first ratchet and engage one of said detent arms with its associated ratchet, including a plurality of electromagnets each operable, upon energization, to so engage one of said detent arms and disengage said latch lever, and a switch connected in series with each said electromagnet and operatively associated with one of said coin chutes for closing by a coin passing therethrough to cause energization of the electromagnet connected therewith, said electromagnets having cores horizontally disposed in parallel relationship to each other, said latch lever being pivotally mounted above and adjacent one end of said cores, and said detent arms being pivotally mounted below and adjacent the opposite ends of said cores.

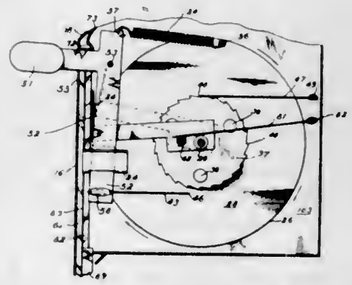
2,613,792
COIN HANDLING APPARATUS
Robert F. Broussard, Houston, Tex., and Lester D. Sollenberger, Chicago, Ill., assignors, by direct and mesne assignments, to Duncan Parking Meter Corporation, Chicago, Ill., a corporation of Illinois
Application July 17, 1948, Serial No. 39,266
23 Claims. (Cl. 194—72)

1. The combination in a coin-controlled mechanism, of a coin selector comprising a manually movable spring-biased pivoted member having a finger-engaging surface and a coin slot through said surface, a coin carrier disposed adjacent said coin selector and having a coin-receiving pocket normally in registration with said coin slot, said coin carrier being arranged to be rotated by said coin selector to move said pocket to a coin-discharge position, structure including an arcuate coin track concentric with said coin carrier and arranged to retain a coin in said pocket while the coin carrier is in rotation, a coin gauge carried by said coin carrier



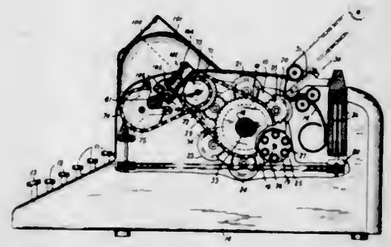
and normally projecting radially from said coin carrier towards said coin slot and having a notch arranged to engage the edge of a coin, said coin gauge being retractible into said pocket and arranged to guide a coin from the coin slot into the pocket, said coin gauge normally projecting from the coin carrier sufficiently to obstruct partially said coin track structure unless retracted, and a cam operatively connected with the coin selector and rotatable by the same to retract said coin gauge sufficiently to clear said coin track structure.

2,613,793
CONTROL MECHANISM FOR VENDING AND LIKE MACHINES
Fred E. Erickson and Loyal K. Roe, Sacramento, Calif.; said Roe assignor to said Erickson
Application September 19, 1950, Serial No. 185,552
5 Claims. (Cl. 194—76)



1. In a coin operated amusement device, a casing including a front plate having an opening therein, a rotor mounted for rotation in said casing and having the periphery thereof divided into substantially equal circumferential segments, indicia appearing on said segments, a ratchet wheel including a plurality of teeth secured to said rotor for rotation therewith, a manually operable handle on said casing, resilient means normally urging said handle in one position, a lever secured to said handle and having a portion thereof engageable with one of said teeth in a second position of said handle, whereby on return of the handle to said first position the lever portion will impart a rotational impulse to said ratchet wheel and said rotor, a shutter member interposed between said rotor periphery and said front plate opening, a slide member operatively connected with said lever for receiving and moving a coin to raise said shutter from said interposed position upon movement of said handle from its first to second position, means for resiliently returning said shutter member to said interposed position upon return of said handle to its first position.

2,613,794
VISUAL SELECTING DEVICE FOR CHINESE TYPEWRITERS AND THE LIKE
Lin Yutang, New York, N. Y., assignor to Mergenthaler Linotype Company, Brooklyn, N. Y., a corporation of New York
Application March 3, 1948, Serial No. 12,754
6 Claims. (Cl. 197—1)

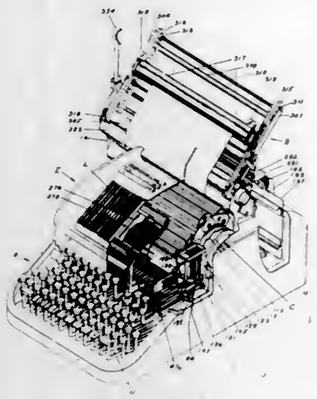


3. An indicating mechanism for typewriters and the like having a first rotary member provided with indicia to be moved selectively to a predetermined position and a carriage movable parallel with the axis of said member for reproduction of a selected indicium in a predetermined position thereon, comprising a rotary indicating member having groups of indicia thereon corresponding to groups of indicia on said first member, a viewing means disposed adjacent to said rotary indicating member for exposing one group of said indicia to view at a time, and means connecting said first rotary member and said carriage to said indicating member to move the latter to expose through said viewing means a group of indicia including the indicium to be reproduced.

2,613,795
CHINESE TYPEWRITER
Lin Yutang, New York, N. Y., assignor to Mergenthaler Linotype Company, Brooklyn, N. Y., a corporation of New York
Application April 17, 1946, Serial No. 662,722
68 Claims. (Cl. 197—1)

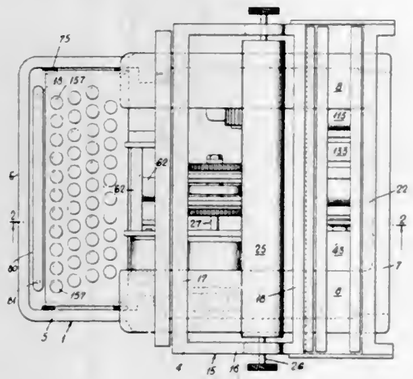
38. A device for selecting and manifesting the characters and components of a written Oriental language, comprising first means for selecting a first group of characters and components, each character and component of the group containing a first symbol like a symbol present in the desired character or component, second means for selecting from said first group a second smaller group of characters and components each

containing said first symbol and another symbol also present in the desired character, third means for selecting the desired character from



said smaller group and means responsive to the third means for manifesting the selected character.

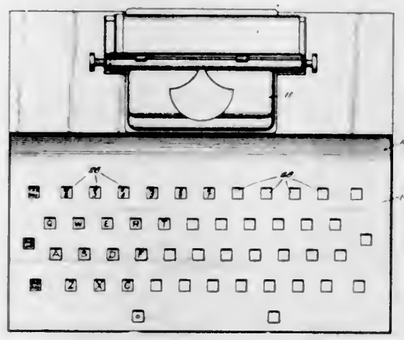
2,613,796
CONTINUOUSLY ROTARY CHARACTER-WHEEL PRINTING MACHINE
Lawrence R. Prouty, New York, N. Y.
Application September 15, 1947, Serial No. 774,101
52 Claims. (Cl. 197—12)



46. In combination, a rotor; type members mounted on the rotor and adapted to move outwardly from the periphery thereof and each provided with a character element and a movable armature; and a non-rotary electro-magnet near the path of the armatures of the members.

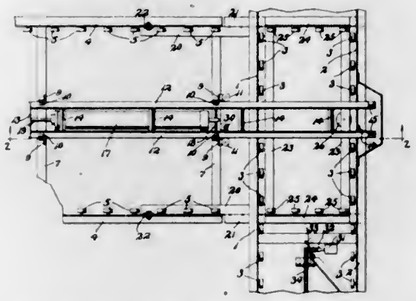
2,613,797
TYPEWRITER OPERATING APPARATUS
Reuben T. Hogg, Chicago, Ill.
Application June 30, 1950, Serial No. 171,352
7 Claims. (Cl. 197—19)

1. Apparatus for operating the type bars of a typewriter comprising a plurality of individual lever systems each capable of operating one of said type bars, and a manually-engageable member forming an operating part of each lever system for activating said lever system and corresponding type bar, each of said members being spaced from adjacent members a distance sufficient to permit operation thereon with a closed



fist without contact with any of the adjacent members.

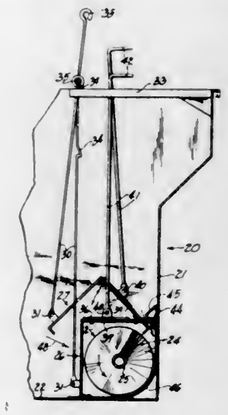
2,613,798
PALLET CONVEYER AND SELECTOR
John E. McPhee, Grand Rapids, Mich., assignor to John Widdicomb Company, Grand Rapids, Mich., a corporation of Michigan
Application July 29, 1950, Serial No. 176,725
10 Claims. (Cl. 198—21)



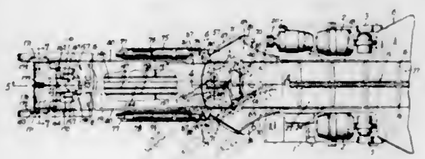
1. In a structure as described, a conveyor over which pallets are adapted to be moved with the pallets located in end to end relation, a second conveyor extending at right angles to and located at a side of the first conveyor over which pallets are adapted to be moved in side by side contacting relationship, a carriage mounted underneath the second conveyor extending across the first conveyor, means for mounting said carriage for reciprocatory movements in the direction of the length of the second conveyor, said carriage having upwardly extending pallet engaging means thereon to engage a side edge of a pallet over the first conveyor, and means for elevating a pallet above said first conveyor and for moving the carriage to bodily move the pallet to the second conveyor.

2,613,799
SYSTEM AND APPARATUS FOR HANDLING GRAIN
Henry H. Bawden and Rulon E. Jenkins, Granger, Utah
Application June 17, 1947, Serial No. 755,206
9 Claims. (Cl. 198—64)

1. Grain handling apparatus comprising a container having a tightly closed body that includes a substantially horizontal bottom and a substantially vertical wall intersecting said bottom; screw conveyor means rotatably disposed within the angular configuration between said bottom and said vertical wall; quarter-turn guide means substantially concentric with said screw conveyor means; said guide means being approximately tangent to both said bottom and said side walls and having a forwardly extending plane surface which coincides with the surface of said horizontal bottom; and means operative to rotate said conveyor means wherein is included sectional housing means each section of which consists of a normally vertical plate in front of said screw conveyor; a normally horizontal plate extending over the top of the conveyor so as to join the vertical plate at least partially enclosing said screw conveyor means; hinge means connecting said sectional housing means to said wall along the edge thereof opposite the joint between the two said plates; and means for raising and lowering said sectional housing means.

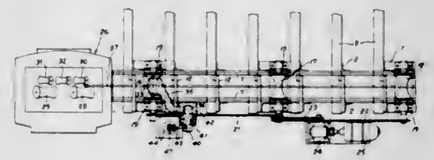


2,613,800
ARTICULATED CONVEYER TAKE-UP
John Merck, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application November 3, 1947, Serial No. 783,758
24 Claims. (Cl. 198—109)



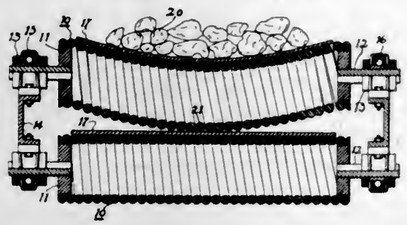
1. In an articulated conveyor, a pair of trough sections, one of which is horizontally swingable with respect to the other about an upright axis, flexible trough side wall providing elements extending between said trough sections and flexing upon relative swinging between said sections to move the median line between said elements laterally relative to said upright axis, an endless conveyor extending along said trough sections from one end of one trough section to the opposite end of the other and having at its opposite ends drive and idler means, said endless conveyor having an active run guided, between said trough sections, by said flexible elements and a return run below said active run, and means extending through one of said trough sections between said active and return runs for effecting bodily movement of one of said drive and idler means to maintain substantially uniform tension on said conveyor automatically during horizontal swinging movement of said movable trough section.

2,613,801
FEEDING APPARATUS FOR STRAIGHTENING MACHINES
Dwight J. Perdue and Clarence B. Richards, Canton, Ohio, assignors to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application January 24, 1947, Serial No. 724,144
9 Claims. (Cl. 198—127)



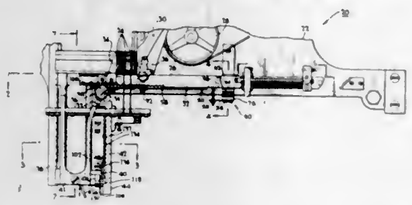
1. Apparatus for feeding elongate, substantially cylindrical work pieces to a straightening machine, comprising a feed table for sequentially supporting said work pieces with their axes substantially in a predetermined horizontal direction, a positively driven roller associated with said feed table and rotatable about a predetermined, substantially horizontal axis perpendicular to said direction, said roller having a work piece-engaging surface which is concave in a plane section radial thereof and wherein the extent axial of said roller is a plurality of times the maximum diameter of said work pieces to be handled thereby, so as to be engageable with out-of-straight work pieces at any portion of said work piece-engaging surface, while relatively straight work pieces tend to move toward the lower center portion of said surface, means for positively driving said driven roller, an idler roller rotatable about an axis which is always in a substantially vertical plane containing the axis of said positively driven roller and which is constructed and arranged to engage a work piece to press such work piece into engagement with any part of said work piece-engaging surface of said driven roller irrespective of the out-of-straight conformation of some work pieces and what portion of said surface may be engaged thereby, means supported on one side only of said feed table for supporting said idler roller, and means operated in handling each work piece for bodily moving said idler roller substantially in a plane perpendicular to the axis of said driven roller between an inoperative position in which it is clear of a work piece that may be supplied laterally onto said feed table from the side thereof opposite that on which said idler roller is supported and disposed over said driven roller on said feed table, and an operative position in which a work piece so disposed may be gripped between said driven and said idler rollers, so as to feed a work piece, without rotating it about its longitudinal axis, into an associated straightening machine.

2,613,802
CONVEYER IDLER
William A. Chapman, Lithonia, Ga.
Application July 26, 1947, Serial No. 763,956
2 Claims. (Cl. 198—192)



2. In a belt-troughing idler structure, supporting means, and a plurality of oppositely disposed idler members rotatably mounted thereon, said idler members being formed from tightly coiled springs; and a conveyor belt operatively disposed on the tops of said rollers, whereby when the upper rollers are distorted under a load, they are in frictional engagement with said conveyor belt, as such is traveling on the lower rollers at that time, said lower rollers progressively conforming to the contour of the upper members with the addition of weight thereto.

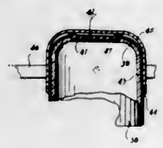
2,613,803
ASSEMBLER SLIDE RETURN
David Diamond, Forest Hills, N. Y.
Application May 5, 1950, Serial No. 160,341
11 Claims. (Cl. 199—30)



1. For use in a typesetting machine including a reciprocable assembler slide and a reciprocable elevator, a slide return comprising an element, means to mount said element for movement parallel to the elevator, a kinematic mechanism for causing movement of the slide as it receives matrices to move the element and reverse movement of the element to restore the slide to starting position, and a kinematic mechanism impositively connecting the element and elevator for causing the elevator to move the element only when the elevator descends and thereby to return the slide to starting position.

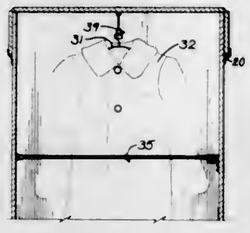
2,613,804
SEALABLE FOOD CONTAINER
David Wendell Hughes, Phoenix, Ariz.
Application May 24, 1950, Serial No. 163,929
1 Claim. (Cl. 206—4)

A sealable food container for fitting within a lunch basket and comprising a main vessel part, said main vessel part having a flat bottom and a rounded top with an opening therein, a lining within the vessel and extending under the rounded top, an insulating cover fitting within the rounded top opening, a cover cap internally threaded and extending over the vessel and contacting the insulating cover, said vessel having threads receiving the threads of the cover cap, and an elongated spacing bar rigidly connected intermediate its length to the cover cap at a point located laterally thereon, said bar extending on



each side beyond said cap in a plane substantially parallel with the flat bottom and normally engageable within the lunch basket to prevent the sliding of the container therewithin.

2,613,805
STORAGE BOX FOR CLOTHES
Louise K. Frolich, Kansas City, Mo.
Application July 19, 1951, Serial No. 237,614
3 Claims. (Cl. 206—7)

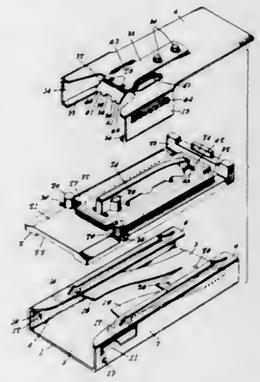


2. A box for storing clothing therein on hangers or the like comprising, a sheet of relatively stiff material having spaced longitudinal fold lines and transverse fold lines whereby said sheet may be folded forming a bottom, sides, ends and cover members for said box, said end members having longitudinal fold lines forming end flaps for folding around the sides of said box, means for securing said end flaps to said side members, rods hingedly connected to said bottom near said transverse fold lines, keepers on the end members near the outer edges thereof, chains on said rods having latch portions engaging said keepers to form supports for the clothing on the hangers in the respective ends of the box, rods hingedly connected to the sides of the box offset from one another, keeper members on the sides of the box opposite said rods, heads on the free ends of the rods for engaging in said keepers whereby the rods engage the clothing for holding the clothing in flat condition, and means for sealing the cover members.

2,613,806
BLADE-DISPENSING MAGAZINE
Nicholas Testi, Boston, Mass., assignor to The Gillette Company, Boston, Mass., a corporation of Delaware
Application July 29, 1946, Serial No. 686,915
14 Claims. (Cl. 206—16)

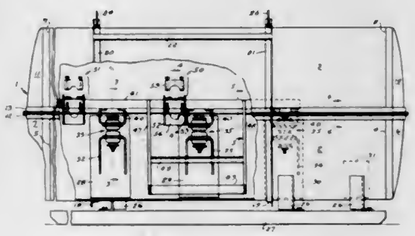
1. In a magazine for dispensing thin flexible blades, stack-locating means for holding a stack of such blades in a predetermined position in said magazine, reciprocable blade-advancing means having a blade-driving projection extending in the direction of the thickness of said blades and shoulder-means engageable with the surface of

the end blade of said stack for positioning said projection so that its tip lies in abutting relation to an edge of said end blade, and means for transversely flexing the advancing end blade after its



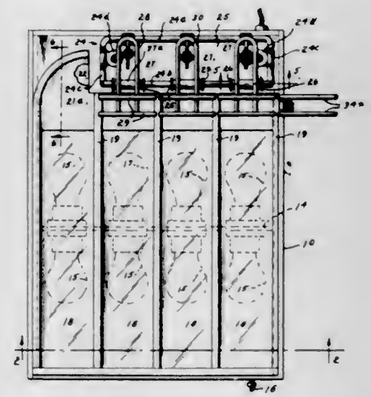
initial displacement, the blade-advancing means being recessed intermediate its aforesaid blade-driving projection and its shoulder-means to accommodate the transverse flexure of the blade.

2,613,807
JET ENGINE CONTAINER
William W. Higbee, Xenia, Ohio
Application November 14, 1951, Serial No. 256,355
4 Claims. (Cl. 206—46)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



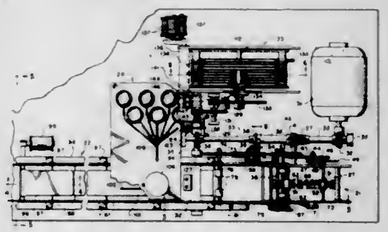
1. A shipping container for a jet engine comprising, a lower semi-cylindrical shell and an upper semi-cylindrical shell each having semi-circular end walls and adapted to meet along a longitudinally extending medial plane to form a closed cylindrical container, means along the confronting edges of said shells to connect the upper shell to the lower shell, means attached to the lower shell to serve as container-supporting and floor-contacting elements, bracket means on opposite sides of said lower shell and rigidly attached thereto on the inside surface, resilient supporting elements mounted on said brackets, a pair of engine bearing beams at opposite sides of said lower shell and supported by said resilient supporting elements, curved bars connecting said pair of beams and having end portions rigidly connected to said beams, and a plurality of trunnion supporting devices on each of said beams spaced apart longitudinally thereof and adapted to removably retain a plurality of laterally projecting trunnions fixed on said jet engine at opposite sides thereof.

2,613,808
EGG CANDLER AND GRADER
Millard A. Richard, Lakeville, Ind.
Application September 26, 1949, Serial No. 117,900
1 Claim. (Cl. 209—71)



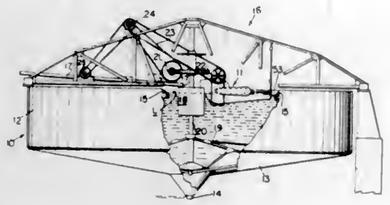
An egg weighing and candling assemblage comprising means to feed eggs along a path, a series of weighers located along the path, each weigher being adjusted to discharge an egg of selected weight transversely of the path, a candling means to receive the discharged eggs and arranged to maintain each grade separated from the others, the said candling means comprising a series of glass-bottom parallel channels, one for each grade of eggs, a compartment underlying each channel and a lamp positioned in each compartment.

2,613,809
TICKET SORTING APPARATUS
Louis M. Potts, deceased, late of Evanston, Ill., by Martha W. C. Potts, executrix, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application October 25, 1946, Serial No. 705,531
5 Claims. (Cl. 209—111)



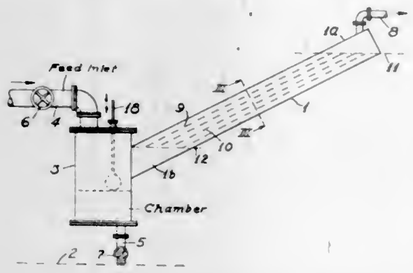
2. In a system for sorting records in accordance with indicia thereon and which are also provided with feed designations, means for scanning the indicia successively, means for scanning the feed designations, selector mechanism, means responsive jointly to said indicia scanning means and said feed designation scanning means for setting said selector mechanism, means controlled by said selector mechanism for sorting said records into separate groups in accordance with the indicia scanned, and auxiliary scanning means for determining the presence or absence of a record for releasing said sorting means for operation.

2,613,810
FROTH BREAKING APPARATUS
Vincent Claver Lorenz, Anaconda, Mont.
Application September 7, 1949, Serial No. 114,332
6 Claims. (Cl. 210—51)



1. The combination with a thickener adapted to be filled with a body of pulp to a normal liquid level and having a central pulp feed well, of froth-breaking apparatus which comprises a launder communicating at its inner end with the interior of the feed well and projecting outwardly therefrom, said launder being closed at its outer end and being positioned about at the normal liquid level of the pulp, one of the side walls of said launder being formed with a horizontal slot the lower edge of which lies just below the normal liquid level of the pulp, whereby pulp may flow continuously through said slot into the launder, a rotary cutter blade mounted for rotation closely adjacent the slotted side of the launder and movable across the mouth of the slot in a plane substantially parallel to the plane of the slotted side of the launder, thereby to break up froth carried on the surface of pulp flowing into the launder, and an elevator mounted in the launder adjacent its inner end for lifting pulp out of the launder and into the feed well.

2,613,811
CONTINUOUS SETTLING APPARATUS
Francis M. Archibald, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 9, 1948, Serial No. 64,321
6 Claims. (Cl. 210—54)



1. An apparatus for gravity separation of emulsions of materials substantially immiscible and of dissimilar specific gravities, comprising a vertical receiver chamber for the emulsified materials and the separated heavier component thereof, an inlet for emulsified materials opening into the upper portion of said chamber, an outlet for said separated heavier component opening from the lower portion of said chamber, a narrow, elongated, separator shell opening at one end directly into said chamber intermediate the inlet for emulsified materials, and the outlet for the separated heavier component, said shell extending angularly upward from said chamber and with reference to a substantially horizontal, common base plane, a plurality of shallow, elongated conduit elements extended longitudinally within said shell, terminating at each end thereof in common planes substantially parallel with each other and with said base plane, said ends with said shell defining chambered upper and lower end portions, the latter opening directly into said receiver chamber, separate conduit means for introducing emulsified materials through said receiver chamber inlet and for removing the separated heavier component through said receiver chamber outlet, conduit means communicating with the chambered upper end portion of said shell for withdrawal of the lighter component of said emulsified materials and means for maintaining a predetermined level of the heavier component in said chamber intermediate the opening of said shell into the chamber and said outlet for the heavier component.

2,613,812
DEVICE FOR SEPARATING WATER FROM CRUDE OIL
Joseph Lee Yancey, Great Bend, Kans.
Application July 11, 1947, Serial No. 760,367
4 Claims. (Cl. 210—54)



1. In a device for separating water from crude oil, an upright cylindrical tank, an oil intake manifold extending through the diametral center of the tank and having downwardly directed discharge apertures spaced along its lower side, a water outlet in the bottom of the tank, a valve element normally closing said outlet, a float controlling said valve and effecting closing of the same upon a predetermined rise in the level of the water, a stem rising from said valve, a second float within the tank above said manifold, a guide rod depending from said second float, a link coupling between the ends of said stem and the guide rod to allow for a limited movement of said second float relatively to the first float, said second float being of a specific gravity whereby it will sink in oil and be raised by water, a guide element rising from the upper side of said second float, guide means cooperative with said guide rod and the guide element for maintaining said second float concentric with respect to the side wall of the tank, and a second manifold extending through the upper end of the tank diametrically thereof for discharging the separated oil from the tank, said second manifold having downwardly directed inlet apertures spaced along its lower side.

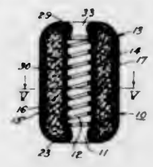
2,613,813
METHOD OF FILTERING BY ATTRACTING SLUDGE PARTICLES
Clarke A. Rodman, Garden City, N. Y., and Norman L. Tewksbury, Fall River, Mass., assignors to Fram Corporation, a corporation of Rhode Island
No Drawing. Application January 27, 1950, Serial No. 140,962
6 Claims. (Cl. 210—62)

1. A method of attracting or adsorbing the pyrolytic and oxidation decomposition products of a hydrocarbon oil forming a contaminant in said oil for removing said contaminant from said oil, which method comprises collecting on a media, contaminant from the oil which has been contacted with a composition containing as the essential ingredient at least one of the compounds whose generic formulae is

$$RCONH(R_1NH)_nR_1NHX$$

where
X is H or RCO
RCO is a fatty acid radical
R_1 is an alkylene or olefin group
n is 0 or any whole number,
the compound being prepared by reacting an alkylene polyamine and a material selected from the group consisting of fatty acids and fatty acid glycerides at an elevated temperature and for a length of time until there is no longer a decrease of alkalinity.

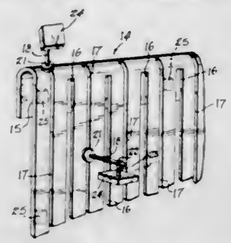
2,613,814
FILTER
Laurence L. Moore, Oakland, Calif., assignor to Winslow Engineering Co., Oakland, Calif., a partnership
Application April 19, 1948, Serial No. 21,900
4 Claims. (Cl. 210—148)



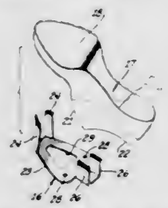
1. In a filter cartridge of the type in which there is a core of fibrous filtering material having an aperture extending therethrough, annular retainer members positioned adjacent the respective ends of said core aperture, a unitary tubular sheath of extensible material encircling said core in a plurality of continuous toroidal convolutions and passing through said core aperture, and means within said core aperture for holding said sheath in engagement with said annular retaining members; the combination therewith of a fluid-permeable, substantially inextensible, cylindrical girdle between two of the outside convolutions of said sheath.

2,613,815
WEIGHTING MEMBER FOR CARD SORTING RACKS
Albert L. Mohrmann, Brooklyn, N. Y.
Application October 14, 1949, Serial No. 121,256
3 Claims. (Cl. 211—10)

1. A weighting member for use with a rack having a backboard and a plurality of forwardly extended partitions dividing the interior of the rack into compartments open at their fronts and tops for receiving stacks of paper comprising a flat plate, said plate having a plurality of equally spaced slits extended upward from the bottom edge thereof and having between each pair of slits a vertically extended slot, said plate having its top portion bent rearward and downward, forwardly extended horizontal bars having their rear ends slidably retained in said slots for vertical movement relative to said plate, and weights mounted on the front ends of said bars.

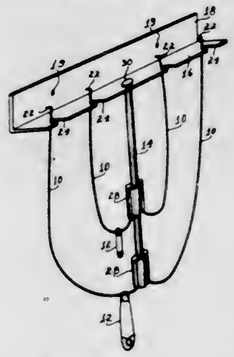


2,613,816
SUPPORT FOR SHOES MOUNTED UPON LASTS
Frank Sbicca, Los Angeles, Calif.
Application June 10, 1946, Serial No. 675,586
3 Claims. (Cl. 211—34)



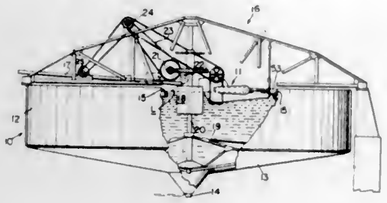
1. A shoe and last support adapted to seat a last formed with a narrowed downwardly extending instep and a shoe positioned thereon, comprising a plate formed with a central aperture to receive and seat the lower extremity of said instep with said last inverted, with spaced forward fingers constructed and arranged to receive and seat said instep forwardly of said lower extremity, and spaced rear fingers constructed and arranged to seat said last rearwardly of said instep.

2,613,817
SAFETY PIN HOLDER
Robert Francis Kenney, Gardner, Mass.
Application April 14, 1951, Serial No. 221,054
3 Claims. (Cl. 211—106)



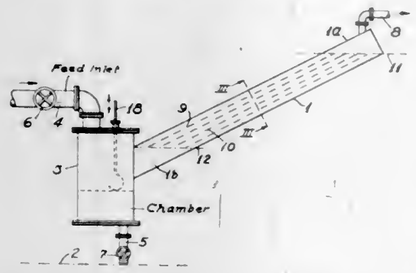
1. A safety pin holder comprising a horizontal bar adapted to be secured on a fixed support, a

2,613,810
FROTH BREAKING APPARATUS
Vincent Claver Lorenz, Anaconda, Mont.
Application September 7, 1949, Serial No. 114,332
6 Claims. (Cl. 210—51)



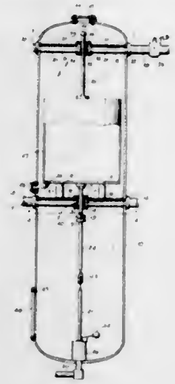
1. The combination with a thickener adapted to be filled with a body of pulp to a normal liquid level and having a central pulp feed well, of froth-breaking apparatus which comprises a launder communicating at its inner end with the interior of the feed well and projecting outwardly therefrom, said launder being closed at its outer end and being positioned about at the normal liquid level of the pulp, one of the side walls of said launder being formed with a horizontal slot the lower edge of which lies just below the normal liquid level of the pulp, whereby pulp may flow continuously through said slot into the launder, a rotary cutter blade mounted for rotation closely adjacent the slotted side of the launder and movable across the mouth of the slot in a plane substantially parallel to the plane of the slotted side of the launder, thereby to break up froth carried on the surface of pulp flowing into the launder, and an elevator mounted in the launder adjacent its inner end for lifting pulp out of the launder and into the feed well.

2,613,811
CONTINUOUS SETTLING APPARATUS
Francis M. Archibald, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 9, 1948, Serial No. 64,321
6 Claims. (Cl. 210—54)



1. An apparatus for gravity separation of emulsions of materials substantially immiscible and of dissimilar specific gravities, comprising a vertical receiver chamber for the emulsified materials and the separated heavier component thereof, an inlet for emulsified materials opening into the upper portion of said chamber, an outlet for said separated heavier component opening from the lower portion of said chamber, a narrow, elongated, separator shell opening at one end directly into said chamber intermediate the inlet for emulsified materials, and the outlet for the separated heavier component, said shell extending angularly upward from said chamber and with reference to a substantially horizontal, common base plane, a plurality of shallow, elongated conduit elements extended longitudinally within said shell, terminating at each end thereof in common planes substantially parallel with each other and with said base plane, said ends with said shell defining chambered upper and lower end portions, the latter opening directly into said receiver chamber, separate conduit means for introducing emulsified materials through said receiver chamber inlet and for removing the separated heavier component through said receiver chamber outlet, conduit means communicating with the chambered upper end portion of said shell for withdrawal of the lighter component of said emulsified materials and means for maintaining a predetermined level of the heavier component in said chamber intermediate the opening of said shell into the chamber and said outlet for the heavier component.

2,613,812
DEVICE FOR SEPARATING WATER FROM CRUDE OIL
Joseph Lee Yancey, Great Bend, Kans.
Application July 11, 1947, Serial No. 760,367
4 Claims. (Cl. 210—54)



1. In a device for separating water from crude oil, an upright cylindrical tank, an oil intake manifold extending through the diametral center of the tank and having downwardly directed discharge apertures spaced along its lower side, a water outlet in the bottom of the tank, a valve element normally closing said outlet, a float controlling said valve and effecting closing of the same upon a predetermined rise in the level of the water, a stem rising from said valve, a second float within the tank above said manifold, a guide rod depending from said second float, a link coupling between the ends of said stem and the guide rod to allow for a limited movement of said second float relatively to the first float, said second float being of a specific gravity whereby it will sink in oil and be raised by water, a guide element rising from the upper side of said second float, guide means cooperative with said guide rod and the guide element for maintaining said second float concentric with respect to the side wall of the tank, and a second manifold extending through the upper end of the tank diametrically thereof for discharging the separated oil from the tank, said second manifold having downwardly directed inlet apertures spaced along its lower side.

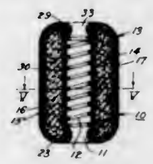
2,613,813
METHOD OF FILTERING BY ATTRACTING SLUDGE PARTICLES
Clarke A. Rodman, Garden City, N. Y., and Norman L. Tewksbury, Fall River, Mass., assignors to Fram Corporation, a corporation of Rhode Island
No Drawing. Application January 27, 1950, Serial No. 140,962
6 Claims. (Cl. 210—62)

1. A method of attracting or adsorbing the pyrolytic and oxidation decomposition products of a hydrocarbon oil forming a contaminant in said oil for removing said contaminant from said oil, which method comprises collecting on a media, contaminant from the oil which has been contacted with a composition containing as the essential ingredient at least one of the compounds whose generic formulae is

$$RCONH(R_1NH)_nR_1NHX$$

where
X is H or RCO
RCO is a fatty acid radical
R_1 is an alkylene or olefin group
n is 0 or any whole number,
the compound being prepared by reacting an alkylene polyamine and a material selected from the group consisting of fatty acids and fatty acid glycerides at an elevated temperature and for a length of time until there is no longer a decrease of alkalinity.

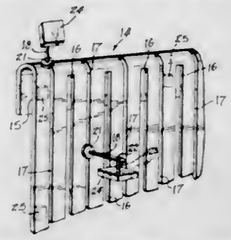
2,613,814
FILTER
Laurence L. Moore, Oakland, Calif., assignor to Winslow Engineering Co., Oakland, Calif., a partnership
Application April 19, 1948, Serial No. 21,900
4 Claims. (Cl. 210—148)



1. In a filter cartridge of the type in which there is a core of fibrous filtering material having an aperture extending therethrough, annular retainer members positioned adjacent the respective ends of said core aperture, a unitary tubular sheath of extensible material encircling said core in a plurality of continuous toroidal convolutions and passing through said core aperture, and means within said core aperture for holding said sheath in engagement with said annular retaining members; the combination therewith of a fluid-permeable, substantially inextensible, cylindrical girdle between two of the outside convolutions of said sheath.

2,613,815
WEIGHTING MEMBER FOR CARD SORTING RACKS
Albert L. Mohrmann, Brooklyn, N. Y.
Application October 14, 1949, Serial No. 121,256
3 Claims. (Cl. 211—10)

1. A weighting member for use with a rack having a backboard and a plurality of forwardly extended partitions dividing the interior of the rack into compartments open at their fronts and tops for receiving stacks of paper comprising a flat plate, said plate having a plurality of equally spaced slits extended upward from the bottom edge thereof and having between each pair of slits a vertically extended slot, said plate having its top portion bent rearward and downward, forwardly extended horizontal bars having their rear ends slidably retained in said slots for vertical movement relative to said plate, and weights mounted on the front ends of said bars.

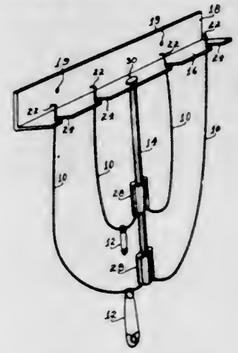


2,613,816
SUPPORT FOR SHOES MOUNTED UPON LASTS
Frank Sbicca, Los Angeles, Calif.
Application June 10, 1946, Serial No. 675,586
3 Claims. (Cl. 211—34)



1. A shoe and last support adapted to seat a last formed with a narrowed downwardly extending instep and a shoe positioned thereon, comprising a plate formed with a central aperture to receive and seat the lower extremity of said instep with said last inverted, with spaced forward fingers constructed and arranged to receive and seat said instep forwardly of said lower extremity, and spaced rear fingers constructed and arranged to seat said last rearwardly of said instep.

2,613,817
SAFETY PIN HOLDER
Robert Francis Kenney, Gardner, Mass.
Application April 14, 1951, Serial No. 221,054
3 Claims. (Cl. 211—106)



1. A safety pin holder comprising a horizontal bar adapted to be secured on a fixed support, a

post secured to the bar and depending therefrom, a resilient wire secured to the post intermediate the wire ends and at a point remote from the bar, the wire being bent into a loop at each side of the post and having two free inturned ends resiliently engaging the bar, said bar having slots in which the free wire ends normally rest and are thereby positioned.

2,613,818
REFRIGERATOR SHELF
William E. Richard, Evansville, Ind., assignor to Seeger Refrigerator Company, St. Paul, Minn., a corporation of Minnesota
Application October 2, 1947, Serial No. 777,417
1 Claim. (Cl. 211—153)



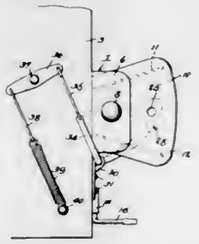
In a sanitary refrigerator shelf, an integral substantially rectangular sheet metal member having an upper plane surface bordered on its front, rear and both sides by a depending border flange extending downward at substantially right angles to said upper surface, said member having its upper surface provided with a multiplicity of slots of uniform width and length extending from a point near the front border flange to a point near the rear border flange, said slots being separated by parallel plane portions of said member of uniform width, and said slots having depending border flanges on each side of said slots, extending substantially the full length of said slots, and a front retaining and finishing bar carried by said front depending border flange and having a plane top surface, a rear plane surface attached to the front border flange and being co-extensive therewith, a rearwardly extending upper rib joining the plane top surface and rear plane surface and overlapping the crack between said bar and said front border flange, said bar being tapered above and below toward a front edge surface, said bar comprising a channeled sheet metal member open at its bottom rear portion thus providing a space between said front edge surface and said rear plane surface and being secured to said front border flange by a plurality of rivets extending longitudinally through said front border flange and said rear plane surface, whereby said bar conceals said rivets from the top and the front of said shelf.

2,613,819
CUSHION UNDERFRAME
Stanley H. Fillion, Scarsdale, N. Y.
Application June 30, 1951, Serial No. 234,592
9 Claims. (Cl. 213—8)



1. In a railway car having a frame, the combination of a draft and buffing column extending lengthwise of the car and supported for endwise movement on the frame, the column including spaced vertical walls having outer and inner pairs of aligned openings adjacent each end of the column, outer and inner keys passing through the respective pairs of openings and anchored at their ends on the frame, the keys being substantially narrower than the length of the openings, a pair of cushioning devices of equal travel within the column at opposite ends thereof, each device lying between the outer and inner keys at the adjacent end of the column, a follower on each key normally engaging the adjacent end of the adjacent cushioning device, stops mounted on the column walls, one at each end of each opening, the pairs of stops between the outer and inner keys at each end of the column normally engaging the ends of the adjacent cushioning device, the stops at opposite ends of the openings for each key being spaced from the key a distance less than the travel of the cushioning devices, and a coupler at each end of the column having its shank connected to the column.

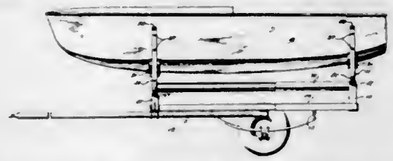
2,613,820
CAR COUPLING
Nathaniel Clark, Madison, W. Va.
Application September 20, 1948, Serial No. 50,175
1 Claim. (Cl. 213—189)



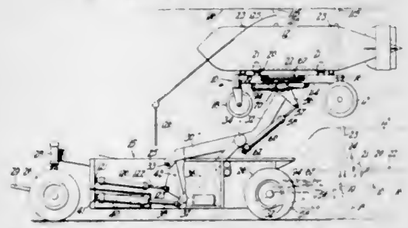
A coupling for mine cars, comprising a draw head embodying spaced upper and lower guide jaws of substantial widths having aligning openings formed therewith, a vertically novable coupling pin slidable through the aligning openings, a curved horizontally swinging trip gate arm pivotally mounted between said jaws, said gate arm having a wide flat head formed on the free end thereof, movable to a position between said aligning openings, a coiled spring having one end anchored against movement, connecting links between the other end of the spring and said trip gate arm normally biasing the gate head to a position directly under said coupling pin providing a support on which the coupling pin normally rests, a substantially large vertical flange rising from one edge of said gate head normally lying within the space between said jaws, and a cooperating draw bar having a link anchored thereto, adapted to move against said flange of the gate head, moving said gate head from a position under said pin when cars are being coupled, releasing said coupling pin, said coupling pin moving to a position within the link anchored to the draw bar, securing said link and draw head together.

2,613,821
BOAT CRADLE
John S. Howard, Jr., Baltimore, and William P. O. Clarke, Annapolis, Md.; said Clarke assignor to said John S. Howard, Jr.
Application September 24, 1948, Serial No. 50,906
7 Claims. (Cl. 214—1)

1. A boat cradle comprising a frame, an arcuate cradle member mounted for rotation on said frame, a detachable boat cradle mount carried by said cradle and extending chordally of the cradle, said mount including a plurality of side supports and bottom bars respectively, detachably mounted to said cradle whereby selected ones of said side supports and bars may be removed for permitting unrestricted access to a pre-selected portion of the hull of a boat carried in said mount.



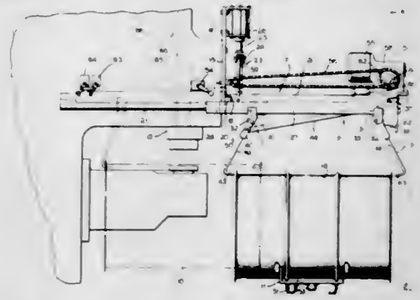
2,613,822
WEAPONS HANDLING UNIT
Robert M. Stanley, Buffalo, N. Y., assignor to Stanley Aviation Corporation, Buffalo, N. Y.
Application December 8, 1949, Serial No. 131,727
4 Claims. (Cl. 214—1)



4. A weapons handling unit comprising a mobile boom device having a load lifting end portion, a platform mounted upon said boom portion for rotation thereon about a pitch change axis parallel to the axis of boom elevation, an actuator device interconnecting said boom and said platform for rotating the latter relative to said boom, a second actuator connected to said boom for elevating the latter, a third actuator interconnecting said frame and said boom for actuation in response to movement of said boom and interconnected with said first mentioned actuator whereby to cause automatic operation of said first actuator to maintain said platform substantially horizontal throughout all elevating movements of said boom, a carriage mounted upon said platform in positionally rigid attitude thereon and including paired roller devices adapted to receive in cradled relation therebetween a generally cylindrical weapon, means for rotating said roller means for rolling said weapon relative to said carriage about the longitudinal axis of said weapon, means for rotating said platform relative to said boom independently of actuation of said platform in response to operation of said third actuator, means for rotating said platform in azimuth relative to said boom, means for displacing said platform in horizontal directions longitudinally of said boom, and means for displacing said platform relative to said boom in horizontal directions transverse to the longitudinal direction of said boom and along an axis coincident to said pitch change axis.

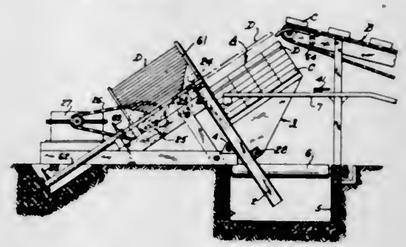
2,613,823
AUTOMATIC BARREL HANDLING DEVICE FOR HORN PRESSES
Stanley S. Johns, Baltimore, Md., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application November 10, 1950, Serial No. 195,096
12 Claims. (Cl. 214—1)

5. Apparatus of the class described for lifting an article from a conveyor, transferring it to a working device and returning the worked article to the conveyor comprising a fixed member, longitudinally spaced arms pivotally connected to said member and extending from opposite sides thereof, guide rods carried by said arms and extending in the proximity of said working device, frame members slidably carried by said rods, means for raising and lowering said arms and the



rods and frame members carried thereby and holding them in raised and lowered positions, depending hooked arms pivotally carried by said frame members, means for moving the hooked arms toward and away from each other to grip and release an article, and means operated when said frame members are in raised position to move the frame members on said rods toward and away from the working device.

2,613,824
STACKING APPARATUS
Jesse J. Tallman, Fort Bragg, Calif.
Application April 26, 1947, Serial No. 744,195
8 Claims. (Cl. 214—6)

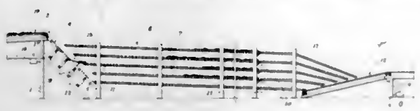


1. Reloading apparatus comprising a tiltable hoist, means to tilt and to raise and lower the hoist, means to feed individual pieces of lumber and to stack them onto the hoist when in tilted and raised position, a container for stickers located adjacent to the hoist when said hoist is in tilted raised position, the container having a sticker outlet at the bottom thereof at the side adjacent to the hoist, a hydraulic cylinder having a piston rod projecting into the container at the bottom thereof at the side opposite the hoist, and means to actuate the projection and retraction of the piston rod.

2,613,825
LUMBER SORTING APPARATUS
Curt F. Setzer and Herbert W. Ryan, Sacramento, Calif., assignors to Setzer Forest Products, Inc., Sacramento, Calif., a corporation
Application February 24, 1948, Serial No. 10,348
3 Claims. (Cl. 214—11)

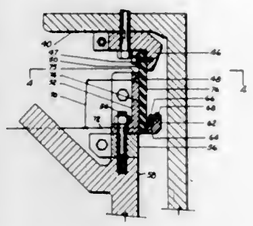
1. Lumber sorting apparatus comprising a lumber feed conveyor, a chute to which the feed

conveyor delivers lumber, the lumber sliding down the chute, a plurality of lumber racks disposed in vertically spaced relation adjacent but beyond the chute, a plurality of normally open lumber deflector gates mounted in connection with the chute and each adapted to close, in lumber deflecting relation, with a corresponding rack, an operator's station adjacent the feed conveyor and chute, and operator controlled mechanism



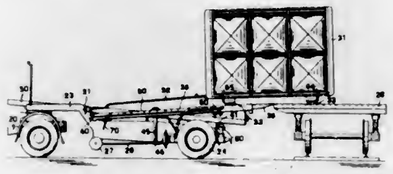
operative to cause selective closing of said gates; the gates each comprising a transverse shaft journaled in connection with the chute, spaced deflector arms radiating in the same normally downward direction from the shaft and clear of the path of lumber on the chute, said operator controlled mechanism causing rotation of the shaft in a direction to swing said arms toward the corresponding rack and into intersecting relation to said path.

2,613,826
ROTARY SEAL FOR FURNACE TOPS
Waring Lennox Dawbarn, Winchester, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts
Application October 19, 1949, Serial No. 122,185
7 Claims. (Cl. 214—36)



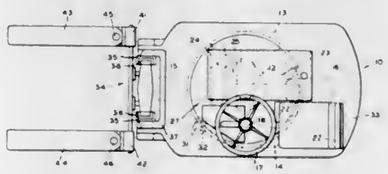
4. In a blast furnace having an upper bell and hopper, a lower bell and hopper, a walled chamber therebetween, and means for rotating said upper hopper, the lower end of said upper hopper extending downwardly into said chamber through a circular opening in the top walls of said chamber, thereby defining an annular space between said upper hopper and the edges of said opening; sealing means to prevent flow of gases between said chamber and the atmosphere through said space, said sealing means comprising a flexible cylindrical member attached in gas-tight relation to supporting means, and spaced radially from said upper hopper, said supporting means being attached in gas-tight relation to said upper hopper, said flexible cylindrical member and said supporting means being arranged to rotate with said hopper, a non-yielding cylindrical retaining member against which said flexible cylindrical member slides when said upper hopper is rotated, said retaining member being associated in gas-tight relation with the walls of said chamber and adjacent said opening in the top thereof, an annular buffer member mounted concentrically, and in fixed relation, with respect to said retaining member, and in sliding relation with respect to said flexible cylindrical member, and adapted to urge said flexible cylindrical member toward said retaining member, and means for introducing a lubricant between the contacting faces of said flexible cylindrical member and said retaining member, said latter two members being positioned substantially concentrically with respect to said upper hopper.

2,613,827
SELF-LOADING AND UNLOADING VEHICLE
Hubertus Josephus van Doorne, Deurne, Netherlands
Application August 23, 1948, Serial No. 45,642
In Belgium September 6, 1947
16 Claims. (Cl. 214—83.12)



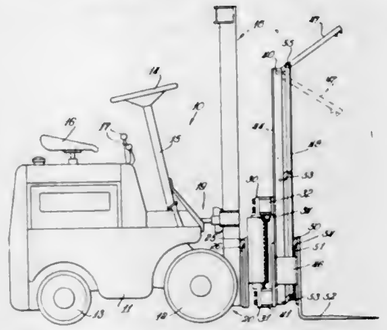
1. In a vehicle for transporting a container, said vehicle having a main frame, an auxiliary frame mounted on said main frame to carry said container, means to tilt said auxiliary frame forwardly and backwardly, and means to move said container onto and off of said auxiliary frame, the improvement comprising means to lock said auxiliary frame in container carrying position and means cooperating with said locking means to prevent the operation of both said moving means and said tilting means when said auxiliary frame is in its container transporting position.

2,613,828
INDUSTRIAL TRUCK
Morris R. Elliott, Buchanan, and George L. Turner, Niles, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application November 3, 1949, Serial No. 125,278
7 Claims. (Cl. 214—112)



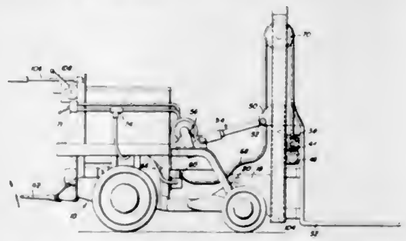
1. An industrial truck comprising, a lower main frame having a pair of driving wheels one at each side of said frame intermediate of the ends thereof and a pair of steering wheels one at each end of said frame intermediate of the sides thereof, steering linkage between said steering wheels, an upper main frame rotatable relative to said lower main frame and having a mast at the forward end thereof, an upwardly extending hand steering wheel carried by said lower main frame and being operably connected to said steering linkage, said lower main frame having an operator's seat mounted to extend upwardly thereof, said upper main frame being formed with an opening through which said hand steering wheel and said operator's seat project, a ring gear secured to said upper main frame, and pinion means carried by said lower main frame for rotating said ring gear and said upper main frame therewith.

2,613,829
SELF-CENTERING BALE HANDLER
Donald W. Gault, Battle Creek, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application June 14, 1950, Serial No. 168,120
7 Claims. (Cl. 214—112)



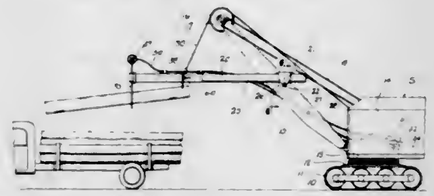
1. For use with an industrial truck, the combination of a vertically extending main frame, load engaging means pivotally mounted to said main frame about a transverse axis adjacent the upper end thereof, vertically extending secondary frame means, load supporting means mounted to said secondary frame means adjacent the lower end thereof, and the upper end of said secondary frame means being pivotally mounted to said load engaging means intermediate of the ends thereof whereby when said load supporting means is urged upwardly with respect to said main frame said load engaging means swings away from said load supporting means and when said load supporting means is urged downwardly with respect to said main frame said load engaging means swings toward said load supporting means.

2,613,830
LIFT TRUCK FORK
Louie H. Ponnequin, Honolulu, Territory of Hawaii
Application March 15, 1948, Serial No. 14,970
2 Claims. (Cl. 214—115)



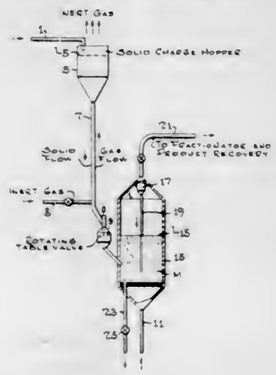
1. In a lifting and transporting apparatus, a tractor having a pump, a pair of vertical rails pivotally secured at their lower ends to said tractor, transverse tracks slidably secured in said rails, laterally movable work engaging tines slidably positioned in said transverse tracks, means for slidably actuating said tracks in said rails, means for slidably actuating said tines toward and away from each other, and means for communicating said last mentioned means with the pump, said tine actuation means comprising rams having pistons slidable in a direction perpendicular to said rails, said communicating means comprising a plurality of flexible conduits, a shaft journalled between said rails, sheaves on said shaft having said conduits positioned thereon, valves in said conduits for controlling the flow from the pump and rams.

2,613,831
LOG-HANDLING APPARATUS
Louis N. Rees, Cathlamet, Wash.
Application May 20, 1949, Serial No. 94,439
2 Claims. (Cl. 214—147)



1. In a log loading vehicle of the type wherein a boom is mounted on a turntable and a boom stick is mounted on the boom for extension and retraction; and means is provided on the turntable for controlling the extension and retraction of the boom stick; a log handling structure rigidly applied to the boom stick at its outer end, and comprising a cross bar at the outer end thereof and a transversely directed heeling plate at the inner end thereof, a pair of upright, laterally spaced tongs pivoted on the cross bar with lower ends disposed to cooperatively receive a log between them, and having upper ends extended above their pivot points, and a power device joining the upper ends of the tongs for actuating them to closed and open positions.

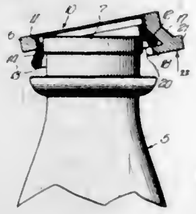
2,613,832
METHOD OF FEEDING SUBDIVIDED SOLIDS
Henry J. Ogorzaly, Summit, and Walter A. Rex, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application August 8, 1947, Serial No. 767,422
4 Claims. (Cl. 214—152)



1. In the method of feeding coarsely subdivided solids from a zone of relatively low pressure to a zone of relatively higher pressure wherein no substantial resistance is interposed within said zone of higher pressure against the influx of the solids, the improvement which comprises maintaining a vertical non-fluidized column of said coarse solids having a particle size between about

1/8 and 1/2 inch diameter within a closed path communicating with the two zones, supplying solids to an upper portion of said column at said relatively low pressure, feeding solids from the base of said column by gravity into said high pressure zone, restricting the free flow of solids in a controlled manner at a point in said base so as to control the rate of flow of said solids into said high pressure zone, introducing a gas into the base of said column at a point immediately above said point of restriction at a rate such that the pressure drop of said gas per unit length of said column in rising through said column is below the bulk density of said solids in said column, said bulk density being of the order of 40–100 lbs. per cu. ft., and controlling the height of said column within the range of about 1–3 ft. for each pound per square inch pressure differential between said low pressure and high pressure zones and the amount of said gas in such a manner that as a result of the gas flow resistance of said column said gas at its point of introduction into said base is at a pressure at least equalling said higher pressure.

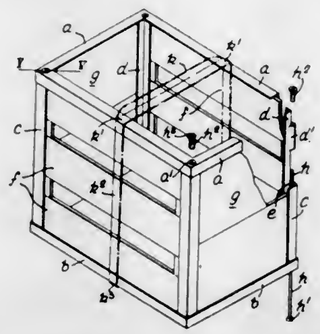
2,613,833
RING SHAPED CLOSURE REMOVER
Raymond H. Williams, Chicago, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application June 3, 1950, Serial No. 165,888
4 Claims. (Cl. 215—46)



4. The combination with a cap for a container, which cap is characterized by a thin sheet metal shell having a substantially cylindrical upper portion and an enlarged lower portion, of a lifter for the cap consisting of a one-piece member having a cylindrical bore of substantially the same height and diameter as the upper portion of the shell, which member fits over the cap in a position substantially flush with the top of the latter and in abutment at the lower end of the bore with the enlarged lower portion of the cap, said member being provided below the lower edge of the cap with an integral inturned portion in engagement with said lower edge and being also provided at a point intermediate the upper and lower edges of the member with an integral outwardly projecting tab portion.

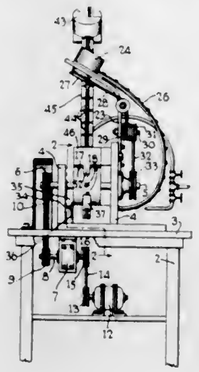
2,613,834
KNOCKDOWN CRATE
Bertram Thomas Gill, Dorking, and Harold Kemp, Surbiton, England; said Gill assignor to said Kemp
Application October 20, 1948, Serial No. 55,484
In Great Britain October 24, 1947
2 Claims. (Cl. 217—12)

1. In a crate, upper and lower rigid endless rectangular quadrilateral opposed metal frames, the upper frame being a single unit frame of inverted angle section bar and the lower frame being a single unit frame of right-angle section bar, both of said frames having the horizontal limbs of their angle sections directed inwardly to define the planes of the top and bottom of the crate, angle section vertical corner members nested at their ends in the corners of the two frames and abutting against said horizontal limbs, vertical wall panels having their vertical bars with flat sides spaced inwardly from said corner members and presenting to said corner members two sides parallel with the inner faces of said corner mem-



bers and thereby forming vertical pockets or channels extended the full vertical distance of said corner members and said bars to receive the vertical side edges of the vertical wall panels, said horizontal limbs having holes at the corner parts of the frames, screw threaded anchorage members passed vertically through said holes to retain said angle section corner members and said frames assembled, and guides integral with said vertical bars to receive said anchorage members to retain said vertical bars in position.

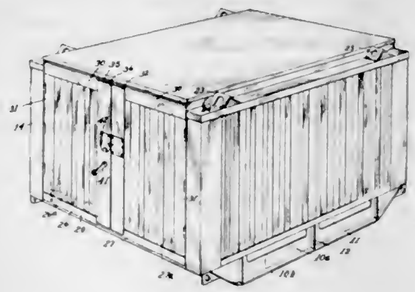
2,613,835
MACHINE FOR ATTACHING SNAP FASTENERS TO TAPE AND THE LIKE
Ralph A. Proud, Wickliffe, and Howard C. Stanley, Willoughby, Ohio, assignors to Talon, Inc., a corporation of Pennsylvania
Application July 27, 1949, Serial No. 106,994
4 Claims. (Cl. 218—18)



1. In a machine for attaching snap fasteners to a flexible carrier, a rotatable member, a plurality of spaced-apart plunger-like radially extending pin members arranged around the periphery of said rotatable member which are maintained normally in a protracted position so as to

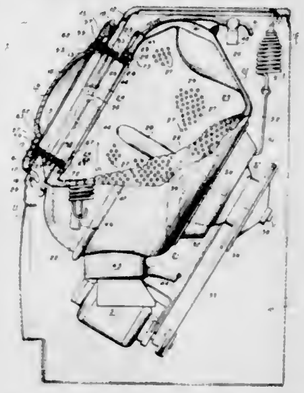
extend outwardly from the periphery of said rotatable member by means of a compression spring arranged in said rotatable member rearwardly of each of said pin members, means for delivering stud elements to the periphery of said rotatable member, means for aligning the stud elements in the line of travel of said pin members as they pass the point of delivery of the stud elements to said rotatable member whereby the pin members are adapted to extend into said stud elements, means for holding said elements on said pin members after they pass the point of delivery, means for delivering a flexible carrier to and around the periphery of said rotatable member whereby the stud elements, being positioned on said pin members at spaced-apart points around the periphery of said rotatable member, may protrude through spaced-apart holes in said flexible carrier, means for delivering socket fastener elements to a point adjacent the periphery of said rotatable member, said stud elements carried by said rotatable member being adapted to register successively with the socket elements at the point of delivery thereof and to move them from said delivery means as said rotatable member is rotated, and stationary means arranged opposite the periphery of said rotatable member adjacent the point of delivery of said socket elements and in the path of rotation thereof for moving and forcing the socket elements into engagement with the stud elements protruding through the flexible carrier arranged therebetween.

2,613,836
SHIPPING CONTAINER
Welrose L. Newhall, Coraopolis, Ernest Willison, Greentree, and Joseph Stevens, Sewickley, Pa., assignors to Dravo Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1948, Serial No. 47,666
9 Claims. (Cl. 220—1.5)



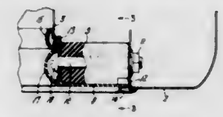
1. A shipping container of the class described having top, bottom, side and end walls wherein the bottom is comprised of a corrugated sheet metal panel substantially coextensive with the area of the container and having welded to the top surface thereof a flat sheet metal panel, said container having skids secured to the under side of the bottom along opposite edges thereof and extending crosswise of the corrugations and set inwardly from the plane of the side walls, and transverse fillers between downwardly-turned corrugations of the bottom flush with the bottom surfaces of the corrugations to prevent the fork of a lifting truck from entering a space between two corrugations, the skids being provided with spaced openings therethrough adjacent the plane of the bottom of the container through which the prongs of a lift truck may be entered.

2,613,837
WASHING MACHINE HAVING A RESILIENTLY SUPPORTED TUB STRUCTURE
Eldred O. Morton, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 3, 1948, Serial No. 47,639
4 Claims. (Cl. 220—15)



1. In a washing machine, the combination of a tub for containing washing water, a fixed casing surrounding the tub, means for resiliently supporting the tub within said casing and providing for movement of the tub relative the casing, said tub and casing having respective opposed wall members spaced apart and provided with registering access openings, a resilient tubular wall extending between said opposed walls of the casing and tub, means for securing the resilient tubular wall to said wall of the casing peripherally of the access opening therein, said wall of the tub having a flange structure formed thereon and including a cylindrical portion disposed peripherally of the access opening of the tub and terminating in a curled edge which projects outwardly from said cylindrical portion and within the tub, said resilient wall member projecting within the cylindrical portion of the flange and having a reverse bend which extends around the curled edge and over the exterior of the cylindrical flange portion and an endless resilient ring surrounding said reverse bend and biasing the same into engagement with the exterior of the cylindrical flange intermediate the wall of the tub and said curled edge of the flange structure.

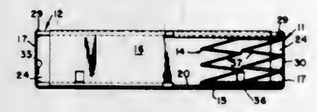
2,613,838
REFRIGERATOR CABINET
Robert A. King, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 3, 1946, Serial No. 700,846
9 Claims. (Cl. 220—15)



1. In a refrigerator cabinet, an outer wall and an inner wall mounted in spaced relationship, said walls terminating in spaced free edge portions, spacing means secured to said walls for maintaining the spaced alignment of said edge portions of said walls, a readily detachable breaker strip for closing the space between said walls

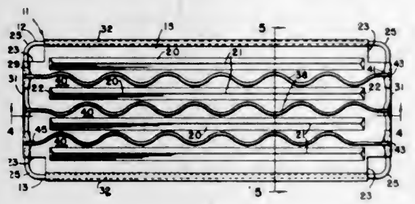
and enclosing said free edge portions of said walls, resilient means secured to one of said walls inwardly of the edge portion thereof and engaging one edge of said breaker strip for retaining said breaker strip in position, said breaker strip being formed with a concave portion adjacent said one edge thereof and enclosing said one edge portion of said one of said walls, and means including a portion of said spacing means extending toward said concave portion of said breaker strip and arranged to engage said concave portion while said one edge of said breaker strip is in engagement with said resilient means to prevent disengagement of said breaker strip from said resilient means.

2,613,839
BEVERAGE CASE
Otis C. Coles, Jr., El Paso, Tex.
Application April 9, 1948, Serial No. 19,965
3 Claims. (Cl. 220—21)



2. In a beverage case, the combination of a body portion comprising a generally rectangular bottom and side and end walls, an upper rectangular reinforcing band about which the upper marginal portions of said walls are curled over in an inward direction, and about the reinforcing band providing inwardly extending beading at the top of the case, and a lower rectangular reinforcing band disposed at the inside of the body portion at the juncture between the bottom and said walls; and a resilient cell forming means in the hollow of said case removably supported upon the upper portion of the lower reinforcing band and removably sprung under and engaging the lower portion of said inwardly extending beading.

2,613,840
METALLIC CELLULAR BEVERAGE CASE
Otis C. Coles, Jr., El Paso, Tex.
Application April 9, 1948, Serial No. 19,966
2 Claims. (Cl. 220—21)



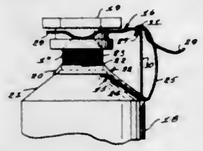
1. In a beverage case, the combination of an elongated body portion comprising a bottom, side and end walls, and reinforcing bands at the upper ends of the body portion, said end walls each having a cut-away portion open to its upper edge, intermediate its sides, to provide a handhole with tongues at each side of the handhole, curled over and about its respective reinforcing band, said reinforcing bands each provided with spaced off-sets in the zones of the tongues of its respective side wall, said off-sets extending toward the middle zone of the body portion, and said tongues provided with slots exposing the bight portions of the off-sets; and cell forming means comprising a series of sinuous wires disposed with the sinuations in a horizontal plane, and having their end portions connected to said off-sets at the bight portions thereof.

2,613,841
BOTTLE CASE
Richard W. Cooper, Hutchinson, Kans.
Application October 20, 1949, Serial No. 122,384
1 Claim. (Cl. 220—21)



An article holding case comprising an upper frame, a first set of resilient straps attached at their ends to opposite sides of said frame, a second set of resilient straps attached to other opposite sides of said frame and crossing the first-mentioned set of straps to thereby define junctions, each strap having an upwardly rising projection formed therein at spaced intervals, each projection consisting of two smoothly curved side walls, each side wall being curved from its upper end to its lower end and joined at its adjacent wall of the pair, one wall of four projections nearest to one of said junctions defining a resilient pocket to hold an article whereby the article may be inserted into said pocket due to the curvature of said walls of said pairs of walls, and means holding said straps together at said junctions, and the lower ends of the walls of said pair of walls contacting each other but spreadable from each other due to the resiliency of said straps.

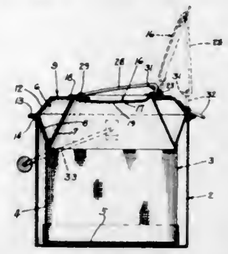
2,613,842
CONTAINER CAP-SUPPORTING ATTACHMENT
Joseph R. Woody, Stuarts Draft, Va.
Application May 27, 1949, Serial No. 95,851
4 Claims. (Cl. 220—30.6)



1. The combination with a container having a nozzle at one end and a cap for the nozzle, of a guide plate extended radially from the nozzle; means connecting said plate at one end thereof to the nozzle; a semi-elliptical spring fixed at one end to the other end of the guide plate in approximate parallelism with the longitudinal axis of the nozzle and tensioned at its other end to exert a continuous pressure in the general direction of the opposite end of the container; a cap-supporting member including a pair of perpendicularly related legs fixedly joined at one end thereof and pivotally connected directly to the spring at their juncture point, the cap being separably connected to the other end of one leg, the other end of the second leg sliding longitudinally of the guide plate to opposite extreme positions adjacent the nozzle and spring, respectively, said spring in the respective positions of the second leg biasing said member to nozzle-uncapping and capping positions, respectively; and a thumb lever rigid with the first-named leg and constituting means for swinging said

member to each of its respective positions, the second leg being forced against the guide plate by the spring to retain said member in the nozzle-uncapping position thereof.

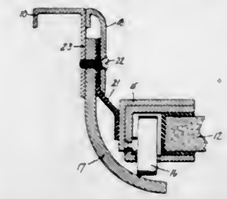
2,613,843
PIVOTED BUCKET CLOSURE
Charles R. Suda, Minneapolis, Minn.
Application August 15, 1946, Serial No. 690,727
1 Claim. (Cl. 220—35)



In combination in a minnow bucket of the type which includes a foraminous container, an annular shell secured to the top of said container, said shell having a top wall consisting of a horizontal portion and a downwardly and outwardly inclined portion terminating at its lower portion in an outwardly extending peripherial flange, said top wall horizontal portion having an opening to permit access to said container, a closure for said opening in the top wall horizontal portion, a horizontally disposed hinge connected to said closure and said top wall portion of the annular shell, spring means mounted on said hinge for constantly urging said closure toward said opening in the top wall portion, said closure being adapted to be pivoted upwardly from said opening and beyond a vertical dead center position immediately above said hinge, a handle-rod having one end pivoted to the closure adjacent an edge thereof diametrically opposite from said hinge and provided at its opposite end with an inturned hook, and a link in alignment with said closure hinge and said handle-rod, said link being pivotally secured to said downwardly and outwardly inclined wall portion adjacent said outwardly extending peripherial flange whereby said link when pivoted to a downwardly and outwardly extending position rests on said peripherial flange and a portion thereof extends outwardly beyond said peripherial flange permitting said hook on the handle to be readily engaged in said link extending portion thereby to pivot said link to an upward position in engagement with said handle hook and to secure the closure in open vertical position beyond the vertical dead center position immediately above said hinge whereby said spring means also serves to retain said hook in engagement with said link.

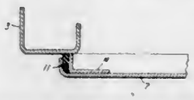
2,613,844
SLIDING DOOR ASSEMBLY
Alfred R. Mounce, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application December 18, 1948, Serial No. 66,032
1 Claim. (Cl. 220—41)

A sliding door assembly for open top cabinets and the like comprising an elongated rectangular door, a pair of oppositely facing parallel guides for supporting said door in a substantially horizontal plane with the shorter sides of said door adjacent and parallel to said guides, pairs of supporting elements mounted on said door near the corners thereof for engagement with respective ones of said guides to support said door in spaced relation to said guides, said guides having cross sections sloping outwardly and upwardly with increased steepness and said elements being arranged normally to move along the lower relatively flat portions of said guides whereby forces tending to twist said door about a vertical axis



are opposed by the movement of two diagonally located ones of said elements upwardly against the increasing slope of said guides and jamming of said door is prevented, and strip gaskets of readily flexible material secured along said guides and contacting said door for closing the spaces between said door and said guides and for affording easy movement of said door along said guides and laterally thereof while maintaining sealing engagement between the guides and the door.

2,613,845
GASKETED COVER FOR ISOLATED PHASE BUS
Nathan Swerdlow, Philadelphia, and George G. Abel, Media, Pa., assignors to General Electric Company, a corporation of New York
Original application August 30, 1948, Serial No. 47,128. Divided and this application November 1, 1949, Serial No. 124,926
1 Claim. (Cl. 220—46)

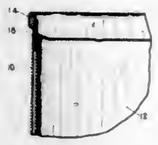


In combination, enclosing structure for an electric bus, said structure having an opening therein, a cover for said opening having a substantially flat central portion and an inwardly projecting peripheral flanged portion, a flanged frame secured to the inner surface of said cover, the flange of said flanged frame being in spaced relation to said flanged portion of said cover to define a trough therebetween, the flange of said flanged frame being longer than said flanged portion of said flanged cover and being engageable with said structure to establish a clearance space between said structure and said flanged portion, resilient material disposed in said trough and arranged to project a short distance beyond the flange of said frame when said cover is open, and clamping means disposed about said opening and engageable with said cover for forcing the flange of said frame into engagement with said structure so as to compress said resilient material.

2,613,846
CAN OPENER AUXILIARY
Maurice H. Shulman, Brookline, Mass.
Application May 1, 1947, Serial No. 745,269
3 Claims. (Cl. 220—85)

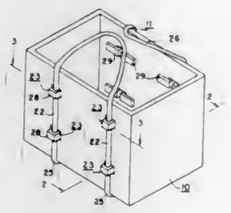
1. The combination with a rimless covered and sealed can, of a can opener support comprising

an open cylinder fitted closely but separably around the outside of the can and having a reinforced external rigid annular rim of substantially the same width as the flange of a flanged end can and positioned with its lower edge slightly



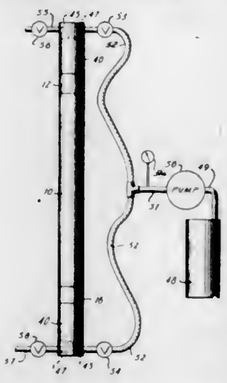
beyond the outer end of the can in position to form a support for engagement with a can opener adapted to sever said can end, said support having inwardly extending means for engagement with said can end when said support is in operative relation to said can.

2,613,847
LUGGAGE CONTAINER
Carl John Lacher, Cleveland, Ohio
Application June 17, 1949, Serial No. 99,666
1 Claim. (Cl. 220—94)



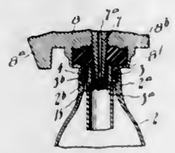
A container and handle with the handle movably and removably attached to said container, said container having a bottom and opposite side walls with at least one opening therein, said handle being a movable and removable endless cord arranged to support the container and provide carrying loops at the top of opposite sides of the container, said cord extending in two generally parallel paths substantially vertically along the side walls and across beneath the bottom of the container at spaced intervals along the side walls and bottom, and cord fasteners removable from the complete container and removably extendable through the spaced openings in the side walls at spaced locations along the cord, each cord fastener having a U-shaped mid-portion and first and second side legs extending substantially perpendicularly away from said mid-portion, said opening being large enough to pass said U-shaped mid-portion and two thicknesses of said cord, the U-shaped mid-portion of a cord fastener being loosely mounted through said opening from the inside of the container with the cord engaging the U-shaped mid-portion and with said first and second side legs engaging the inside surface of the side wall next adjacent the opening, said cord holding said mid-portion of said fastener in place in said opening and preventing the removable fastener from passing inwardly through the opening while the handle is being used yet permitting ready removal of both cord fastener and cord.

2,613,848
METHOD OF AND MEANS FOR TRANSFERRING LIQUID SAMPLES FROM PRESSURE VESSELS
Jesse W. Wood, Shreveport, La., assignor to United Gas Pipe Line Company, Shreveport, La., a corporation of Delaware
Application August 22, 1949, Serial No. 111,748
4 Claims. (Cl. 222—1)



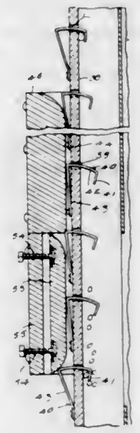
1. The method of transferring a fluid sample from a fluid sample receiving chamber having its ends closed by valves which are maintained seated by the pressure of the fluid sample, said method including, applying a pressure to the valve at one end of the chamber sufficient to open said valve against the pressure of the fluid sample, applying pressure against the second valve at the opposite end of the chamber sufficient to open said second valve against the pressure of the fluid sample, then introducing a displacement liquid into the chamber to displace the fluid sample from the chamber without contamination of the fluid by the displacement liquid.

2,613,849
CARTRIDGE FOR PRESSURE DISPENSING DEVICES
Lawrence T. Ward, East Orange, N. J., assignor to Prel Incorporated, East Orange, N. J., a corporation
Application June 3, 1949, Serial No. 96,957
5 Claims. (Cl. 222—5)



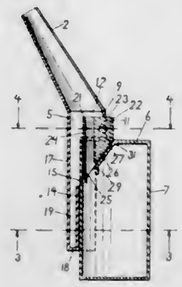
1. In a pressure dispensing device, a frame member, a cartridge for fluid under pressure mounted in said frame member and having an opening at one end thereof, a seal for said opening comprising a cup-shaped member having a rim around the top thereof and a puncturable area in the bottom thereof, means for mounting the cup-shaped member in the opening in the cartridge with its rim projecting above the end of the cartridge and its puncturable area within the opening in the cartridge and below the end thereof, a sealing washer between the cup-shaped member and the cartridge, a piercing pin tapering substantially to a point, a member mounted on the frame member and supporting the piercing pin above the cup-shaped member with its central axis substantially in alignment with the central axis of the cup-shaped member, said cartridge being axially movable relative to the pin-supporting member, a washer of resilient material surrounding the pin, said washer being secured to the pin supporting member in close contact with the tapered sides of the piercing pin, and means on the frame member for imparting relative movement to the cartridge and the pin-supporting member to cause the last mentioned washer to be compressed between the rim and the tapered side of the piercing pin and to cause the pin to pierce the puncturable area, the distance between the point of the pin and the washer being relatively less than the distance between the rim of the cup-shaped member and the puncturable area whereby the washer will engage the rim of the cup-shaped member before the piercing pin punctures the puncturable area.

2,613,850
MECHANICAL SEED PLANTER
Charles B. Varco, La Crosse, Wis.
Application July 23, 1947, Serial No. 762,896
2 Claims. (Cl. 222—12)



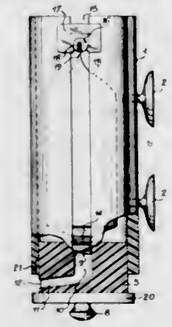
1. A seeding device comprising a mobile frame, a hopper carried by said frame, a discharge chamber carried by said hopper, and a rotary delivery member engageable at least partially in said discharge chamber for removing seeds from the latter, said delivery member comprising a rotary disc, said disc having a plurality of circumferentially spaced openings, an L-shaped seed clamping member for each opening having one side thereof extending loosely through said opening, and having the other side thereof confronting the adjacent face of said disc and constituting a seed clamping jaw, means comprising a resilient arm connected to each seed clamping member and at its other end to said disc constantly urging said clamping member inwardly to dispose said seed clamping member inwardly to dispose said seed clamping jaw against said adjacent face of said disc, and an elongated arcuate releasing cam engageable by said seed clamping members for moving the latter to released position and holding the same in said released position during a substantial portion of the path of travel of said disc, and a second elongated cam immediately adjacent said first cam, and means adjusting said second cam to maintain said seed clamping jaw in adjusted seed receiving position during that portion of the travel of said seed clamping jaw through said chamber.

2,613,851
LIQUID DISPENSING DEVICE
Le Roy Du Bois, New York, N. Y.
Application April 27, 1950, Serial No. 158,496
2 Claims. (Cl. 222—81)



1. A device for dispensing liquid from a container having end walls and a lateral wall, said device comprising a funnel forming a rising tube narrowing toward its upper end, a plate extending from said funnel downwardly, having a horizontal width smaller than one-half of the circumference of said lateral container wall and contacting the outside of said lateral wall unilaterally when said device is attached to said container, a channel leading from said funnel along the outside of said plate and having a closed bottom whereby said channel forms a drip chamber, and a cutter affixed to said funnel in a fixed position, extending along said plate less far than said channel and contacting the inside of said lateral wall in said attached condition whereby said lateral wall is firmly gripped by said plate and said cutter, said plate comprising the inner wall of said drip chamber and having an interruption extending along that part of said channel which extends along said cutter.

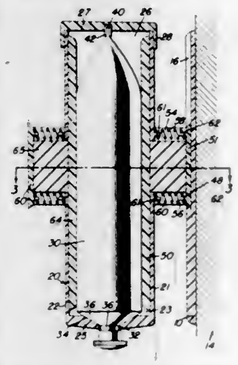
2,613,852
COLLAPSIBLE TUBE CASING AND DISPENSER HAVING A ROTATABLE AND SLIDABLE CLOSURE PLUG
Charles S. Frederick, Cleveland, Ohio
Application June 11, 1951, Serial No. 230,949
4 Claims. (Cl. 222—100)



1. In a collapsible tube support and tube dispenser, a casing and a closure plug releasably and slidably mounted for longitudinal movement therein, said tube having a permanently closed

end and an openable end, the latter of which is adapted to be releasably secured to said plug, a discharge outlet in the side of said plug for the contents of said tube, said plug being longitudinally adjustable into a retracted position in said casing where said casing covers and closes said discharge outlet and also longitudinally adjustable into an extended position in said casing for uncovering and opening said discharge outlet, manually operable means for engaging the closed end of said tube for squeezing the contents of said tube into said discharge outlet and cooperating guide members in said casing and carried by said tube for guiding the longitudinal movements of said manual means as it is operated to squeeze out and discharge the contents of said tube through its openable end.

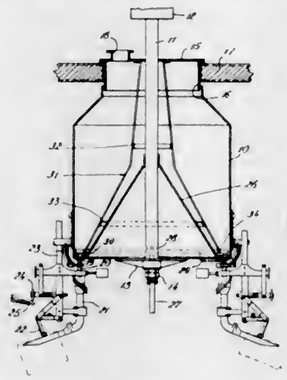
2,613,853
DISPENSER WITH SLIDABLE PRESSURE PLATES FOR COLLAPSIBLE TUBES
Wilmet P. Halvorsen, Red Wing, Minn.
Application December 18, 1950, Serial No. 201,291
2 Claims. (Cl. 222—103)



1. In a dispenser and holder for a flexible tube, a casing with side walls, a bottom wall with an aperture to accommodate the neck of the tube, and an opening in the top of the casing for insertion and withdrawal of the tube, a pressure member disposed in said casing to squeeze a charge of material from the tube, one of said side walls having an aperture, and means disposed in said aperture and connected with said pressure member for actuating said pressure member, another of said side walls having an aperture, a second pressure application member for the tube, and an operator for said second member disposed in said last mentioned aperture, a mounting element, and means operatively connected with said mounting element and said operator for removably supporting said casing.

2,613,854
PACKING MACHINE
Karl Jens Sylvest and Ejler Jensen, Copenhagen, Denmark, assignors to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey
Application June 4, 1949, Serial No. 97,266
In Great Britain June 14, 1948
12 Claims. (Cl. 222—168)

1. In apparatus for packing powdered material, the combination of a filling tank comprising a side wall and a bottom rigidly secured thereto, the tank being mounted for rotation on a central vertical axis through the bottom of the tank and having an open upper end and outlet openings at its lower end spaced about the periphery of the tank, a stationary closure for the upper end of the tank, and scraping elements within the

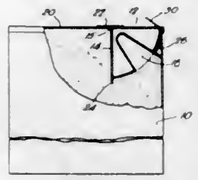


tank and rigidly connected to the closure, the elements lying close to the inner ends of the outlet openings.

2,613,855
GREASE DISPENSER
Arthur Pansegrau, Marshalltown, Iowa
Application March 22, 1949, Serial No. 82,716
3 Claims. (Cl. 222—340)

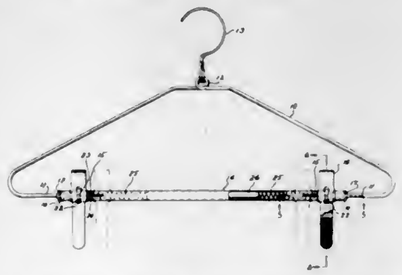
1. A grease dispenser comprising a cylindrical tank having a cover on one end thereof, a grease dispensing conduit attached to said cover and communicating with said tank, a piston slidably received in said tank and forming a grease chamber therein between said piston and said cover, a plate slidably received in said tank below said piston, a coil spring disposed between said piston and said plate, a plurality of circumferentially spaced guiding rods attached to the under surface of said piston equidistant from the center thereof, said rods extending longitudinally of said tank and embracing the convolutions of said coil spring internally thereof to guide said spring between said wall and said rods during the expansion and contraction of said spring, said plate having bores therein slidably receiving said rods, locking means on the lower end of said rods underlying said plate to limit displacement of said plate relative to said piston, elevating means underlying said plate selectively urging said plate upwardly to compress said spring, sliding of said plate toward said piston being unobstructed except by said coil spring, said spring urging said piston upwardly to force grease from said chamber.

2,613,856
MEASURING DISPENSER FOR CARTONS
Oscar L. Ely, Dorchester, Mass.
Application July 6, 1950, Serial No. 172,265
2 Claims. (Cl. 222—364)



1. A dispensing unit for dispensing granulated material from cartons, comprising an end wall, a wall attached thereto for insertion into a carton and supporting the end wall on the end of the carton, and a segmental body having two walls converging to a common pivot axis for the body, two side walls cooperating with said two walls for enclosing the sides of the body, and an arcuate wall disposed between the outer ends of said two walls and the side walls and having a pocket within the body open through the arcuate wall and disposed substantially centrally in the arcuate wall with substantial sealing portions thereon on both sides of the pocket, said two walls being attached to the end wall for pivotal movement on said axis and in such position that one of said two walls forms an extension of the end wall when the body is pivoted to closed position in a carton, the body being pivotally movable into and out of the carton about said axis.

2,613,857
GARMENT HANGER
Victor H. Pechtel, Farmingdale, N. Y.
Application October 3, 1947, Serial No. 777,731
5 Claims. (Cl. 223—91)



1. A garment hanger comprising a central tubular member, hanging means connected to said central tubular member, a garment clip slidably mounted on said tubular member adjacent each end of said tubular member, and frictionally engaging the same, spring means carried by said tubular member, and connections between said clips and said springs means, said spring means acting on said connections and normally urging said clips outwardly relative to each other so that a garment mounted thereon will be held in a stretched position.

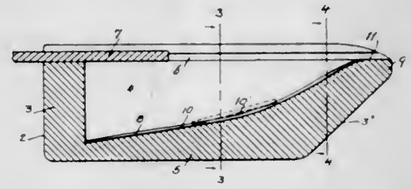
2,613,858
GARMENT HANGER
Robert M. Sprague, Pittsburgh, Pa.
Application July 23, 1948, Serial No. 40,311
14 Claims. (Cl. 223—94)

1. A hanger comprising, a pair of arms, each of said arms comprising a pair of telescopingly engaged members, connecting means integral with one of the members of one of said arms, said connecting means providing a rigid hooked



connection with one of the members of the other arm, and support means mounted on said connecting means.

2,613,859
HAIRPIN RECEPTACLE
Philip Napoleon Boudreau, Lake Megantic, Quebec, Canada
Application March 22, 1950, Serial No. 151,084
In Canada November 8, 1949
1 Claim. (Cl. 223—109)

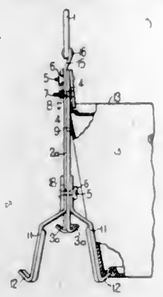


A receptacle for the purpose specified, having one interior vertical rear wall and two interior vertical side walls, and a front wall having a top flat ledge the floor of a receptacle sloping longitudinally of the receptacle in two angularly-disposed relatively-long surfaces extending from said rear wall to the top flat ledge of the front wall of the receptacle, the said surfaces being formed with a concaved channel, the longitudinal centre of which coincides with the longitudinal axis of said receptacle and joined by a trench defined by the surfaces immediately adadjacent either side of the point of intersection of the two angularly-disposed relatively-long surfaces whereby as a pin is moved from the lower surface to the upper one it will span said trench and thus be elevated above its fellows and thus facilitate its removal from the receptacle by the fingers.

2,613,860
HOLDER AND CARRIER FOR CONTAINERS
Frank A. Hoffman, Homer City, Pa.
Application January 22, 1951, Serial No. 207,193
1 Claim. (Cl. 224—45)

A device of the character described comprising a vertically extending strap, a carrying handle affixed to the upper end of said strap, a pair of clamp plates each disposed upon an opposite face of said strap adjacent the upper end thereof, said strap having a longitudinal slot in the upper portion thereof, a pin affixed to one plate and extending slidably through said slot and the other plate, a compression spring surrounding said pin and bearing against the inner sides of said plates, a nut at the free end of said pin, a bolt affixed to one of said plates in spaced relation above said pin and extending through said slot and said other plate, a wing nut threaded upon the free

end of said bolt, the lower end of said strap being centrally and vertically split into a pair of sec-



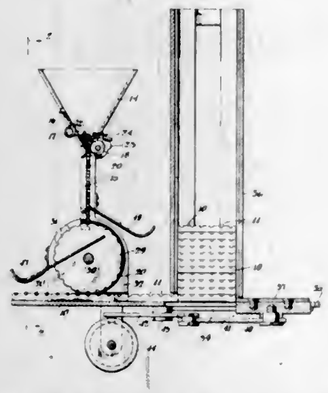
tions, and a pair of opposed upwardly extending hooks each formed by one of said sections.

2,613,861

ROD FEEDING MACHINE WITH ROD RECEIVING GROOVED MEMBER MOVABLE TO ACTUATE ROD FEEDING MEANS

Henry Goerlitz, New York, N. Y., assignor to Eberhard Faber Pencil Company, a corporation of New York

Application April 6, 1946, Serial No. 660,281
14 Claims. (Cl. 226—2)



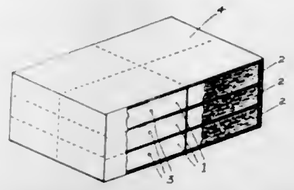
1. A loading machine to feed rods into spaced grooves in a member such as a slat or the like in which the spaced grooves have a depth to retain a rod projecting above the face of the member, comprising grooved feeding means having spaced grooves each of which is adapted to receive a rod, means mounting the grooved feeding means for free movement and the sole driving connection for the grooved feeding means being a rod in a groove of a grooved member interengaging a groove in the grooved feeding means, means to retain the rods in the grooves as the grooved feeding means moves, means to place rods in the grooves in the grooved feeding means, and means to feed grooved members in the direction of movement of the grooved feeding means and adjacent to the grooved feeding means with the grooved face of the grooved member having a spacing from the grooved feeding means less than the projecting portion of the rod, each of said members being adapted to receive a rod in a groove therein and the freely movable grooved feeding means being moved from a groove in the grooved members as the latter are moved adjacent to the grooved feeding means.

2,613,862

METHOD OF PACKAGING HYGROSCOPIC SPONGES

Sidney P. Vaughn, San Diego, Calif.

Application May 12, 1947, Serial No. 747,589
7 Claims. (Cl. 226—2)



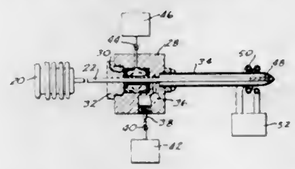
5. The method of packaging hygroscopic sponge which is cellular, compressible, resilient and highly flexible and retains its normal size and appearance when moist and which becomes stiff and has its resiliency materially impaired and may have its shape or size altered when dry, comprising taking the hydroscopic sponge having a moisture content substantially greater than the induced moisture content of such hygroscopic cellular sponge when exposed to the atmosphere having one hundred per cent humidity, then enclosing said hygroscopic cellular sponge having said substantially greater moisture content in a substantially air tight container which is light transmitting and highly flexible and thereby retaining the moist hygroscopic cellular sponge in the moist condition for a long time, the flexible light transmitting container permitting the customer to observe the condition of the moist hygroscopic cellular sponge and to feel its flexibility.

2,613,863

APPARATUS FOR CHARGING AND SEALING TUBING WITH SOLDER

Chester F. Louthan and George B. Long, Dayton, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application April 30, 1946, Serial No. 665,984
2 Claims. (Cl. 226—20.6)



1. A charging and sealing apparatus including a charging housing having projecting therefrom a sealed hollow substantially horizontal tube of transparent vitreous material having a closed end, said housing having an opening therethrough in alignment with and opposite said closed end of this hollow tube, a sealing device in said opening having a passage therethrough in alignment with said opening and said hollow tube, said passage in said sealing device and said hollow tube having a substantially horizontal axis and being capable of receiving a substantially horizontal end portion of metal tubing containing a piece of solder, a fluid charging device connected to the interior of said charging housing and said tube for forcing a fluid into said metal tubing, and a high frequency heating device having a short small diameter high frequency heating coil extending around and closely adjacent to the end portion of the outside of said hollow tube for heating only the portion of the metal tubing containing the

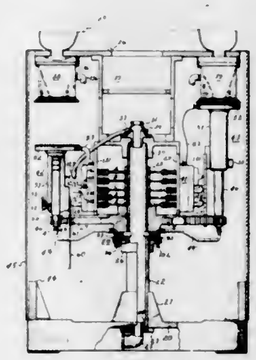
solder to cause the solder to flow into sealing relationship to seal the tubing when the flow charging is completed.

2,613,864

APPARATUS FOR FILLING CONTAINERS

Clarence Freemont Carter, Danville, Ill.

Application January 5, 1948, Serial No. 593
11 Claims. (Cl. 226—98)



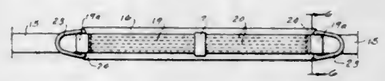
1. A filling machine comprising a support, a hopper mounted thereon for rotation, a plurality of filling heads depending from said hopper, ducts connecting each of said filling heads with a pulsator; said pulsator comprising a hollow engine block having a plurality of ports, a plurality of valves mounted for reciprocation therein controling said ports, a resilient diaphragm dividing said block laterally into separate chambers, the stems of said valves extending through said diaphragm, means maintaining said diaphragm in gas-tight relationship with said block, means forming a gas-tight seal between said diaphragm and said valve stems whereby no gas can pass from one of the chambers to the other but normal reciprocating action of the valves is permitted, means for connecting said ducts with said ports; means for mounting said pulsator on said support, means whereby one of said ports is connectable with a source of vacuum another of said ports communicating with the atmosphere, timing cams mounted on said support engaging the stems of said valves thereby reciprocating them when said hopper is rotated, container lifters corresponding to said filling heads whereby a container to be filled is placed in filling relationship with said filling head, means for positioning a container on said container lifters and means for removing filled containers therefrom.

2,613,865

SAFETY BELT

Clarence W. Rose, Denver, Colo.

Application June 13, 1947, Serial No. 754,475
18 Claims. (Cl. 227—49)



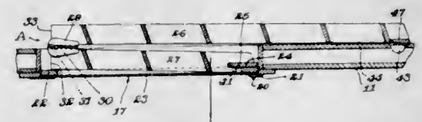
1. For persons in elevated positions, a safety device including, in combination, substantially non-stretchable means for securing the device to the person's body, means for attaching the device to anchors and means for interconnecting the body-securing means and the anchor attaching means, including a stretchable element and serially separable means for interengaging said element with the body-securing means, said interengaging means being adapted to withstand stresses exerted thereon by the normal movements of the person and thereby hold said element in unstretched condition but being also adapted to serially separate responsive to abnormal stresses and thereby successively release portions of said element for stretching, and other means maintaining permanent engagement of a part of the element with the body-securing means.

2,613,866

FOLDABLE STAIRS

Reinhold B. Marschke, deceased, late of St. Paul, Minn., by Berthold V. Marschke, administrator, St. Paul, Minn.

Application July 31, 1946, Serial No. 687,316
6 Claims. (Cl. 228—50)



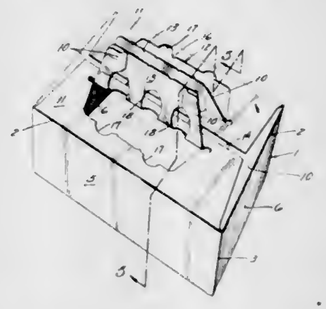
1. A stair construction for use in a stair aperture, the stair comprising in combination a closure pivotally connected to said aperture adjacent one end thereof, a stair body hinged between its ends, means slidably supporting said stair body adjacent the other end of said aperture in such a manner that the edge opposite said one end of the aperture acts as a fulcrum therefor, said stair body being slidably supported by said edge, and cooperable hook means on said stair body and on the free end of said closure for slidably connecting said stair to said closure.

2,613,867

CARTON

Harold W. Darr, Minneapolis, Minn., assignor of twenty-seven and one-half per cent to M. Josephine Darr, twenty-two and one-half per cent to Howard F. Woo, and twenty-two and one-half per cent to Lolita Y. Woo, all of Minneapolis, Minn.

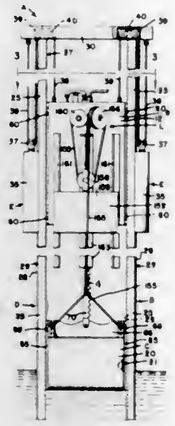
Application August 3, 1949, Serial No. 108,274
2 Claims. (Cl. 229—37)



1. A carton made from a blank sheet of material, said blank including side and end wall sections and top and bottom closures, said top

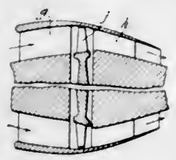
closure including a pair of end flaps and a pair of side flaps, one of which pairs overlies the other of said pairs in opposed relationship, each of said overlying flaps being partially severed in generally U-shaped design to provide co-operating handle-forming blanks which are adapted to open toward each other, the underlying pair of said flaps being provided with generally L-shaped slots which follow the line of severance of the opposite ends of the overlying handle-forming blanks and terminate in close proximity to the inner edges of said underlying flaps, fold lines intermediate the free ends of the line of severance defining the handle-forming blanks, and a plurality of alignable finger-receiving apertures in each of said blanks, a portion of each of said apertures intersecting said fold lines, said pairs of top closure forming flaps being rigidly adhered together, whereby when the handle-forming blanks are opened a portion of each of the underlying flaps will adhere to and reinforce the opposite end portions of said blanks.

2,613,868
WAVE MOTOR ASSEMBLY
Harry M. Smurr, Hanford, Calif.
Application March 7, 1949, Serial No. 80,000
6 Claims. (Cl. 230—67)



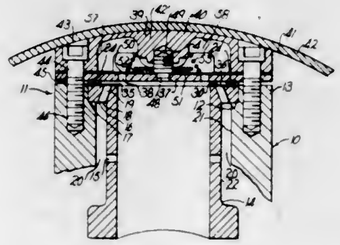
1. In a wave motor assembly, a reciprocable housing, a compressor carried thereby, a float, connection means between the compressor and float, including a reciprocable rod extending upwardly from said float to said compressor and provided with a row of spaced-apart abutments, support means for said housing, including a standard, means to engage said abutments, one after another, upon reciprocation of said rod, comprising a rocker arm portion carried by said housing, latch means to releasably retain said housing in step-by-step positions with respect to said standard, including latches carried by said housing, and means, operatively connected between said rocker arm portion and latch means, to actuate said latch means, including a reciprocable second rocker arm portion pivotally connected with said first rocker arm portion, a rack and pinion carried by said housing and operated by said second rocker arm portion, cams carried by said housing and operated by said rack and pinion, oscillating arms operated by said cams, and link and lever means operatively connecting said oscillating arms and said latch means.

2,613,869
AXIAL FLOW COMPRESSOR
René Anxionnaz and Roger J. Imbert, Paris, France, assignors, by direct and mesne assignments, to Societe Rateau (Societe Anonyme), Paris, France, a company of France
Application October 14, 1947, Serial No. 779,780
In France November 8, 1946
3 Claims. (Cl. 230—120)



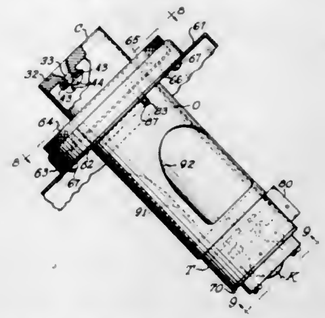
1. In a propelling device for high speed aircraft, a tunnel-like casing extending in the fore-and-aft direction of said aircraft and comprising an upstream air collecting portion, an intermediate air compressing portion, and a downstream nozzle portion opening rearwardly, the said air collecting portion having its upstream end open to the atmosphere and being of substantially uniform cross-section, whereby the velocity of the incoming air is kept substantially constant therethrough, a bladed rotor the blades of which are adapted to move transversely in said air compressing portion and stationary blades in said air collecting portion, said stationary blades having entrance portions parallel to the velocity of the incoming air and trailing portions which are inclined in the direction of rotation of said rotor by an angle adapted to the rotor velocity so that the inclined but substantially unchanged absolute velocity of air where it leaves said trailing portions to enter the rotor, compounded with the rotor velocity gives an air velocity relatively to the rotor which is lower than sound velocity.

2,613,870
COMPRESSOR CYLINDER HEAD ASSEMBLY
William F. Borgerd, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application May 26, 1949, Serial No. 95,425
7 Claims. (Cl. 230—230)



5. A valve structure including a valve plate having a plurality of circumferentially spaced openings therein; a valve ring positioned over said openings for closing said openings, said ring being adapted for longitudinal movement; a cylinder head longitudinally spaced from said plate having a boss projecting toward said valve plate; supporting means for said plate including a member projecting from said boss and secured to a central portion of said plate; a valve ring guide positioned between said boss and said plate, said guide being secured to said supporting means; a spring associated with said valve ring continually urging said ring on said plate; a resilient stop means limiting the longitudinal movement of said valve ring, said means including a disc-like member positioned between said boss and valve ring guide and slidably mounted on said supporting means, and a spring tending to urge said disc-like member on said guide.

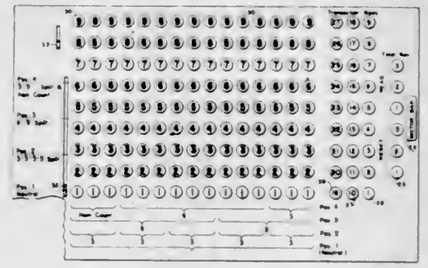
2,613,871
COIN HANDLING APPARATUS
Robert F. Broussard, Houston, Tex., and Henry J. Miller, Chicago, Ill., assignors, by direct and mesne assignments, to Duncan Parking Meter Corporation, Chicago, Ill., a corporation of Illinois
Application April 12, 1949, Serial No. 87,066
10 Claims. (Cl. 232—16)



8. In a coin apparatus of the kind described, a container provided with a tube fixed thereto and extending interiorly and exteriorly thereof and adapted to have inserted into it a coin-receiving cartridge, a collar assembled coaxially with the tube, rotatable relative thereto, and permanently mounted thereon to constitute a portion of the container, there being a discharge opening in the tube and a coacting opening in the collar arranged to occupy open and closed positions relative to each other when the collar is in one or the other of two rotatable positions relative to the tube, means on the collar engageable by the cartridge when inserted into the tube for transmitting turning movements from the cartridge to the collar, and means normally locking the collar, when in its closed rotative position, engageable by the cartridge to free the collar for rotation preliminary to effecting transmission of a turning movement thereto.

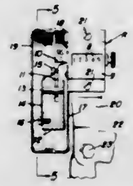
2,613,872
SPLIT MECHANISM
William C. Brown, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application August 5, 1946, Serial No. 688,513
17 Claims. (Cl. 235—6)

1. In a machine of the class described, the combination of a plurality of lines of totalizers; actuators for said totalizers; a plurality of amount-determining devices to control said actuators; transfer means intermediate the denominational orders of the totalizers; a plurality of means associated with one of the lines of totalizers to render the transfer means between a plurality of denominational orders of the totalizers on said line ineffective, said plurality of means being normally ineffective; devices controlled by said plurality of means to render ineffective the transfer means of corresponding denominational orders of the totalizers on the remaining lines of totalizers and differentially adjustable means to



control said plurality of means to determine which of said plurality of means shall become effective.

2,613,873
REGISTERING DEVICE FOR COUNTING THE OPERATIONS OF OSCILLATORY MACHINE ELEMENTS
Everett W. Rich, Stockton, Calif.
Application May 2, 1950, Serial No. 159,542
1 Claim. (Cl. 235—91)

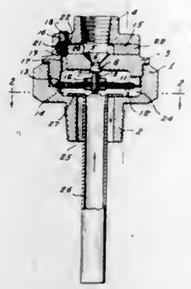


A registering device comprising a counting register, said register including a casing, a plurality of coaxial number wheels within the casing, and operating means for said number wheels including means for transmitting movement from each number wheel to the next in sequence, and a rock shaft having an end projecting from one end of the casing and operatively connected to one number wheel so as to register one unit upon each relative turning movement of the casing and the rock shaft in one direction, a pendulum secured on the projecting end of said rock shaft, and mounting means to mount said register on an oscillatory machine element pivoted for movement in a vertical arcuate path, said pendulum including an arm secured at its upper end on the rock shaft, a weight pivoted at its top to the lower end of said arm, and a spring attached at its ends to the arm and the weight respectively above and below the pivot of the latter to absorb shocks incident to sudden stopping of the machine element at the ends of its arcuate path of movement.

2,613,874
RELIEF VALVE
Elton K. Thomas, Norton, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application March 17, 1950, Serial No. 150,241
5 Claims. (Cl. 236—48)

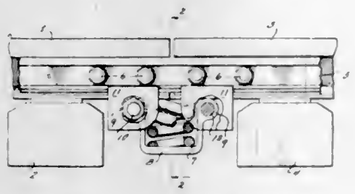
1. A temperature relief valve comprising a body having inlet and outlet passages with a communicating opening between said passages, a valve member for closing and opening said communicating opening, a snap-acting thermostat element mounted within said body and carrying said valve member so as to control the latter, and a

tube disposed in said inlet passage with one end extending out from said body, and the other end lying in proximity to said snap-acting thermostat element, said tube being spaced away from at least a part of the interior wall of said inlet pas-



sage; whereby heated fluid from the container on which said valve is to be mounted may be directed by said tube into contact with said snap-acting element.

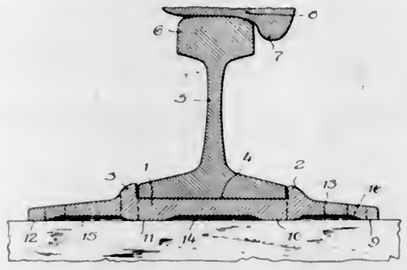
2,613,875
RAIL JOINT
Otto Reifurth, Immigrath Rhld, Germany
Application July 29, 1949, Serial No. 107,466
In Switzerland June 9, 1948
6 Claims. (Cl. 238—173)



6. In a rail joint, a spring assembly to be applied to the flanges of linearly extending adjacent rail ends comprising a support, at least one spring member stressed between the bottom surfaces of the two rails and said support, said support being in the form of a stirrup which is provided at each end with a bearing eye and is suspended from the flanges of the rails, a pair of carrier brackets, one each of which is arranged at each end of each bearing eye, each carrier bracket being provided on an inner side with a projecting portion engaging over an edge portion of the flanges of its respective rail end and provided with a transverse bore, and a connecting bolt in the bores of each pair of carrier brackets and the bearing eye which latter is disposed therebetween, said assembly joining the two rails so that downward movement of one rail end will produce downward movement in the adjacent rail causing both rail ends to flex downwardly upon the passage thereon of a railway wheel.

2,613,876
TIE PLATE
William S. Boyce, Denver, Colo.
Application December 6, 1946, Serial No. 714,544
12 Claims. (Cl. 238—306)

4. A rolled steel tie plate having a top surface provided with a rail seat, and a bottom surface having end portions and formed transversely across each of its end portions with a primary tie bearing surface, another primary tie bearing surface extending transversely across the bottom of the plate and spaced from said end primary surfaces, all of said primary surfaces having flat faces and being in a common plane, a trough extending transversely across the width of the tie plate between each two spaced apart primary surfaces, and constituting tertiary bearing surfaces, and a plurality of flat faced raised members extending crosswise in each of said troughs constituting secondary bearing surfaces,



the flat faces of the cross members all falling in a common plane and the flat depressed faces of said troughs all falling in a common plane, the plane of said primary surfaces and the plane of said secondary surfaces and the plane of said tertiary surfaces all being vertically spaced with relation to each other, the flat faces of the primary bearing surfaces constituting a substantial portion of the entire plate bearing area.

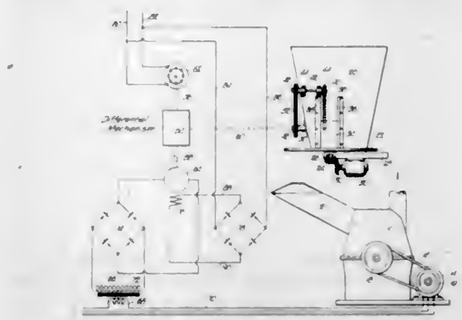
2,613,877
SUPERSONIC TREATMENT OF BATTERY MATERIALS
George Hunrath, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of the Army
No Drawing. Application October 9, 1950, Serial No. 189,305
3 Claims. (Cl. 241—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method of producing an improved mixture of manganese dioxide and electrically conductive inert materials to be used as the depolarizing body surrounding the carbon electrode of Le Clanche type primary dry cells comprising subjecting said manganese dioxide in finely divided form to supersonic vibrations, mixing said treated manganese dioxide with electrically conductive vibrations for the purpose of improving the irreversibility and stability of said mixture.

2,613,878
CONTROL SYSTEM
William H. Hailey, Kansas City, Mo., assignor to Schreiber Mills, Inc., St. Joseph, Mo., a corporation of Missouri
Application February 28, 1949, Serial No. 78,772
6 Claims. (Cl. 241—35)

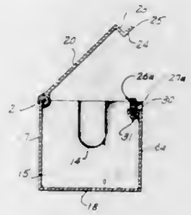
1. A control system comprising a main electric circuit; a differential gearing mechanism having a pair of rotatable shafts and a rotatable driven member; a constant speed electric motor operably connected with one of said shafts; a variable speed electric motor operably connected with the other shaft; an electric circuit for each motor respectively; and means coupling said main circuit with the electric circuit of said variable speed motor for controlling the torque of said member in response to power flow changes in said main

circuit, said means including a transformer having a primary winding and a secondary winding



in series with said main circuit and the electric circuit of said variable speed motor respectively.

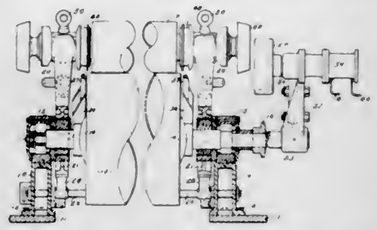
2,613,879
DISPENSER
William H. Carr, Jr., Kansas City, Mo.
Application December 19, 1949, Serial No. 133,821
2 Claims. (Cl. 242—55.5)



1. A dispenser for metal foil or the like comprising a casing adapted to house a roll of foil and having a front wall, a rear wall and parallel end walls, a lid having one longitudinal edge hinged to the upper edge of the rear wall with the opposite free edge of said lid being provided with a cutting edge projecting outwardly from the upper edge of the front wall, the front wall having less height than the rear and end walls, said upper edge of the front wall having an integrally formed longitudinal channel member at the inner face of said wall, a flat strip of elastic material having the lower longitudinal edge fixed in said channel member and provided with a longitudinal slot to receive the free end of the foil for dispensing purposes, said slot dividing the strip into a pair of compressible jaws, one of the jaws projecting above a plane passing through the upper edges of the rear and end walls so that when the lid is pressed downwardly on the strip the jaws will clamp the foil against slippage.

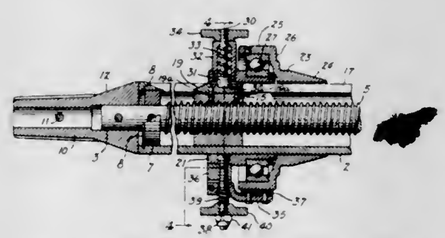
2,613,880
WEB WINDER REEL
Arthur K. Post, Watertown, N. Y., assignor to The Bagley & Sewall Company, Watertown, N. Y., a corporation of New York
Application September 2, 1949, Serial No. 113,879
3 Claims. (Cl. 242—65)

1. A web winding reel comprising a frame, a winder drum journalled in the frame, a shaft journalled in the frame and extending in parallel spaced relation to the drum, a pair of roll supporting arms mounted on said shaft in spaced relation, like ends of said arms being formed to rotatably receive a winder roll, said arms being movable about the axis of said shaft to permit movement of the roll toward and from the winder drum, a radially extending bracket fixedly secured to the shaft, a brake member carried by



said bracket and arranged in axial alinement with the winder roll and movable therewith about the axis of said shaft, and actuating means operable to move said brake member into and out of braking engagement with said winder roll.

2,613,881
PAPER ROLL SUPPORT
Arthur A. Kottmann, Davenport, Iowa, assignor to The Bettendorf Company, Bettendorf, Iowa, a corporation of Maryland
Application October 6, 1950, Serial No. 188,709
6 Claims. (Cl. 242—68)

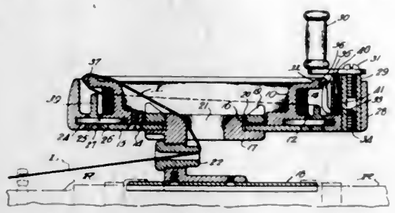


1 A paper roll support comprising a frame, a tube attached at one end to said frame and having a free roll receiving end, said tube having longitudinal slots, a shaft journaled within said tube and having a right-hand screw and a left-hand screw spaced apart longitudinally within the tube, a nut on each screw, a collar slidable on said tube adjacent each nut, means connecting said collars to said nuts through said tube slots to cause the collars to move longitudinally with the nuts inwardly toward one another and outwardly away from one another and to hold the collars and nuts against rotation on the tube, opposed roll carrying members, each having a tubular outer end portion surrounding the inner end of one of said collars, a tubular inner end portion of less diameter than the outer end portion and closely overlying the tube inwardly of the collar and an annular shoulder portion connecting said tubular portions, and a ball thrust bearing interposed between said outer end portions of said roll carrying members and said collars.

2,613,882
FISHING REEL
Edward F. Small, Newton, Mass.
Application June 8, 1950, Serial No. 166,813
8 Claims. (Cl. 242—84.4)

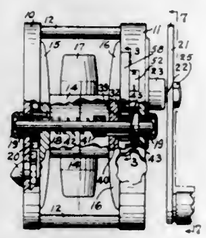
4. A fishing reel comprising a normally stationary spool adapted to be secured to a fishing rod, said spool having a passage formed entirely

through its central portion through which a line is fed from the periphery of said spool to the line guides of a fishing rod, a rotatable annular shaped member surrounding said spool, a line engaging member carried by said annular member for winding a line about said spool, said line engaging



member being moveable from an operative position to an inoperative position, a rotatable cam for laterally distributing a line wound upon said spool, said cam being arranged to entirely surround said spool, and a single handle for moving said line engaging member, for rotating said annular member, and for rotating said cam.

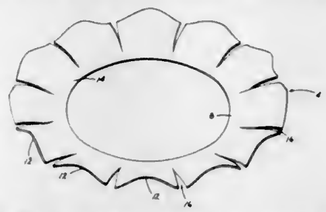
2,613,883
FISHING REEL
Clifford B. Limpright, Marysville, Wash.
Application January 2, 1947, Serial No. 719,812
3 Claims. (Cl. 242—84.7)



1. A fishing reel comprising two relatively rigid spaced apart end plates; a spool rotatively supported between said end plates; a stub shaft journaled in and extending through one of said end plates; a crank member on the outer end portion of said stub shaft; driving gear means interconnecting said spool and said stub shaft; said driving gear means including a gearwheel rotatively supported on said stub shaft; a roller ratchet connecting said gearwheel with said stub shaft; a ratchet wheel rotatively mounted on said stub shaft; a pawl pivotally mounted on the end plate adjacent said ratchet wheel and engaging said ratchet wheel preventing rotation of said ratchet wheel in one direction; and means connecting said ratchet wheel with the roller in said roller ratchet for releasing said roller ratchet, when turning movement of said ratchet wheel is stopped by said pawl, whereby when said spool is being turned in one direction to wind in a line a jerk on said line can reversely rotate said spool and draw out the line without rotating said crank.

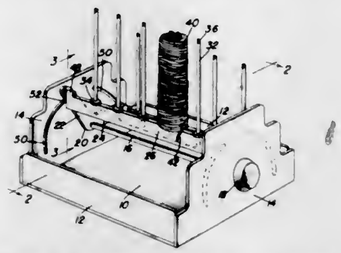
2,613,884
STRAND CUSHIONING DEVICE
Ingham S. Roberts, Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application January 31, 1948, Serial No. 5,589
3 Claims. (Cl. 242—130)

1. A member for concentrically supporting an annular wound package with the windings at one end resting thereagainst comprising an annulus having a substantially flat circular inner portion, and an outer portion of circumferentially spaced flexible leaves each of which extend in an upward



and radially outward direction from the inner portion and have an upper convex surface facing the windings, said surface having a smoothly contoured radially extending central ridge portion.

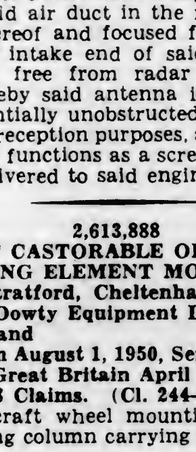
2,613,885
YARN OR THREAD HOLDER
Mary C. Tuttle, Menlo Park, Calif., assignor of twenty-five per cent to Leslie C. Gillen and twenty-five per cent to Theodore J. Portello, both of San Francisco, Calif.
Application July 11, 1950, Serial No. 173,125
8 Claims. (Cl. 242—139)



8. A thread holder comprising a base, a support mounted on said base for oscillatory motion about a horizontal axis, guide means operatively connecting said support to said base for oscillatory motion, thread holders carried by said support upon opposite sides of its axis of oscillation, said support including an axle journaled in bearings on said base, frame members each having angulated arms fixedly secured to said axle, support bars parallel to said axle and mounted on said arms, said guide means comprising arcuate guideways at each end of each support bar, members on said bars slidably received in said guideways, said support bars being pivoted to said arms, said members comprising pins offset from the axis on which said bars are pivoted to said arms, said pins traveling in said guideways to rotate said bars about their pivotal connection and maintain said bars in an erect position.

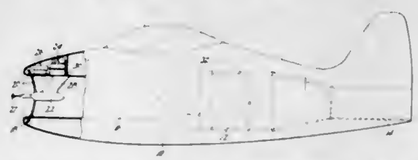
2,613,886
STRAND TENSIONING DEVICE
Ingham S. Roberts, Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Original application December 16, 1947, Serial No. 791,963, now Patent No. 2,559,735, dated July 10, 1951. Divided and this application November 25, 1949, Serial No. 129,257
5 Claims. (Cl. 242—149)

1. A tension device mounted to receive a strand passing from a revolving path comprising a lower annular member having an upwardly-facing horizontal surface and a central vertical passageway terminating as an aperture in the horizontal surface, and an upper element having a downwardly-facing flat surface, a rounded upturned peripheral surface contiguous with the perimeter of the flat surface of the upper member, and a short stem of progressively decreasing diameter extending



downwardly from a central portion of the flat surface of the upper member with the greatest diameter of the stem substantially less than that of the passageway, said upper element being loosely supported on the lower element with the stem extending into the passageway.

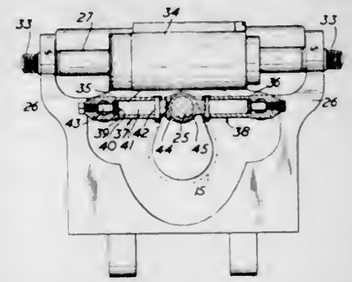
2,613,887
AIRCRAFT WITH RADAR ANTENNA
Robert J. Woods, Grand Island, N. Y., assignor to Bell Aircraft Corporation, Wheatfield, N. Y.
Application January 7, 1949, Serial No. 69,703
6 Claims. (Cl. 244—1)



1. In combination, a jet engine aircraft having an air duct receiving air at a leading portion of said aircraft and conveying the air to the aircraft jet engine, and a radar reflector antenna comprising a grid-like structure having a generally parabolic cross section and being disposed transversely of said air duct in the region of the intake end thereof and focused forwardly of said aircraft, the intake end of said air duct being substantially free from radar interfering elements, whereby said antenna is mounted so as to be substantially unobstructed for wave transmission and reception purposes, and whereby said antenna also functions as a screen for the intake air being delivered to said engine.

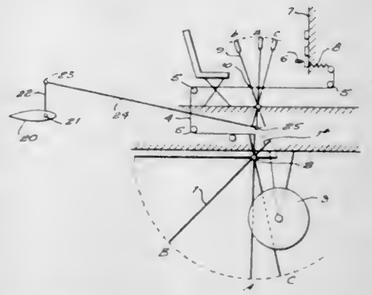
2,613,888
AIRCRAFT CASTORABLE OR STEERABLE LANDING ELEMENT MOUNTINGS
Henry R. Stratford, Cheltenham, England, assignor to Dowty Equipment Limited, Cheltenham, England
Application August 1, 1950, Serial No. 177,046
In Great Britain April 19, 1949
8 Claims. (Cl. 244—50)

1. An aircraft wheel mounting comprising a wheel-turning column carrying the wheel, means rotatively supporting said column for turning of the wheel to either side of the straight-ahead position thereof, crank means fixed to said column eccentrically thereof for rotation conjointly therewith, a double-acting hydraulic means comprising coacting hydraulic piston and cylinder elements, one of which is fixed and the other of which is movable with relation thereto, means supporting said piston and cylinder elements in a position offset laterally from the wheel-turning column and disposed for movement of said movable element in opposite senses and in a direction transverse to said column, a pair of extensible links having cooperable elements movable relative to each other between link-extended



and link-contracted positions, respectively, means pivotally connecting corresponding ends of said links to said crank means, and means pivotally connecting the opposite ends of said links to said movable element at respective locations spaced apart in the direction of movement of said movable element and causing said links to be fully contracted in the rotated position of said crank means corresponding to the straight-ahead position of the wheel and column, whereby turning of said column and movement of said movable element are coordinated in both senses by transmission of force through one link or the other, respectively, depending upon the rotated position of said column and the rotated sense thereof.

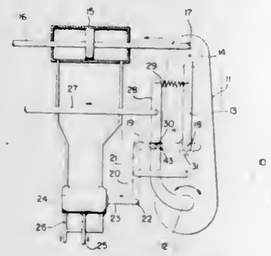
2,613,889
AUTOMATIC DEVICE FOR LANDING AIRCRAFT
André Marie Tonnelé, Fez, Morocco
Application November 7, 1947, Serial No. 784,608
In Morocco June 23, 1947
11 Claims. (Cl. 244—81)



1. In an airplane, automatic operating means for operating the rudders during landing comprising in combination universal pivoting means secured to the body of said airplane; an elongated operating member having a trailing bottom end and being held freely turnable by said

universal pivoting means and normally extending in operative position vertically downward beyond the horizontal plane tangent to the lowermost portion of the wheels of said airplane and having an actuating portion spaced from said trailing bottom end of said operating member; and rudder operating means operatively connected with said actuating portion of said elongated operating member in such a manner as to be actuated by movement of the same out of the vertical plane passing through the longitudinal axis of said airplane and proportionately to such movement.

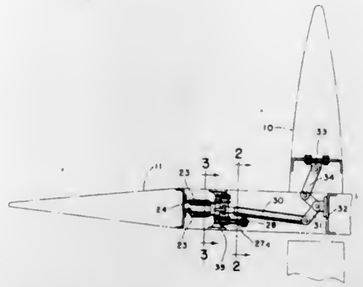
2,613,890
VARIABLE RATIO BOOSTER SYSTEM
Ward W. Beman, Glendale, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application August 2, 1946, Serial No. 687,997
10 Claims. (Cl. 244—85)



1. In an aircraft control system comprising a pilot-operated element, and a member to be controlled in step with the motion of said element, a power mechanism connected to operate said member in parallel with and supplementary to the pilot-operated element, linkage interconnecting and separately applying the forces from both the power mechanism and the pilot-operated element to the member, said linkage being arranged to balance the power mechanism against the pilot-operated element about a pivot point common to both and to said member whereby to provide a direct mechanical feel in the pilot-operated element of the forces applied to the member to be controlled, and yielding means positioned between the pilot operated element and said linkage operating to vary the effective point of application of said pilot operated element to said interconnecting linkage whereby to increase the leverage ratio thereof as the force applied to said element increases.

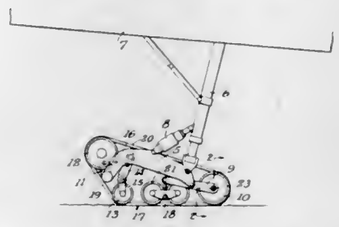
2,613,891
CONTROL SYSTEM AND VARIABLE LINKAGE THEREFOR
James E. Knight, Columbus, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application July 16, 1949, Serial No. 105,115
13 Claims. (Cl. 244—87)

1. In combination with an airplane having an elevator and an adjustable stabilizer, an elevator load applying mechanism comprising: first and second elements pivoted respectively on first and second axes to a common support on the airplane, a third element pivoted to said first element on a third axis which may be brought into coincidence with said second axis by pivotal movement of the first element, a fourth element pivotally connecting the second and third elements, tensioned spring means pivotally connected to said fourth element upon an axis which is coincident with said second and third axes when the latter are coincident, a pull rod pivotally connecting said second element and said elevator for applying thereto, as a down load, force exerted by said spring means when said second and third axes are non-coincident, and means operable by and upon down adjustment of said stabilizer for moving the first element about said first pivot axis to displace said third axis from coincidence with said second axis.



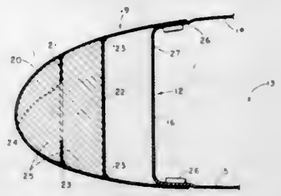
11. A variable load applying mechanism comprising first and second elements pivoted respectively on first and second axis to a common support, a third element pivoted to the first element on a third axis which may be brought into coincidence with said second axis by pivotal movement of the first element, a link pivotally connecting the second and third links, load applying means pivoted to said link on a fourth axis which is coincident with said second and third axes when said axes are coincident, movement of said first element about said first axis shifting said third axis toward and from coincidence with said second axis for respectively decreasing and increasing the moment of said load applying means upon said second and third elements.

2,613,892
TRACK TREAD LANDING GEAR WITH PREROTATION MEANS
Otto E. Dever, Burbank, Calif.
Application October 20, 1949, Serial No. 122,535
3 Claims. (Cl. 244—100)



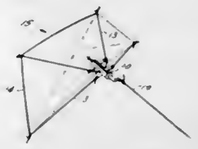
1. In landing gear for aircraft, a plurality of pulleys, one of which trails with respect to the others during forward flight, endless belt means trained around the pulleys to form a track, frame means for the landing gear adapted to be connected with the strut of an aircraft, linkage interconnecting the frame means with at least one of the pulleys to move the latter outwardly from the frame means to tighten the track on the pulleys when the track engages the ground, and electric motor means embodied within the trailing pulley for instituting rotation thereof and of the track before the track engages the ground, said trailing pulley rotating in a direction to pull on that portion of the track which engages the ground.

2,613,893
AIRFOIL CONSTRUCTION
Richard Hall Young, Columbus, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application April 1, 1948, Serial No. 18,450
2 Claims. (Cl. 244—123)



1. An airfoil whose leading edge portion comprises a sheet metal shell of substantially arched formation in cross-section, a sheet metal strip extending spanwise along the interior of the shell, said strip bridging said arch formation and having its side edge portions substantially throughout their length secured to the shell, the forward face of the strip and the interior surface of the shell forward of the strip defining a continuous ductiform mold cavity, and an integral mass of metal cast in and substantially conforming in shape to said mold cavity, said shell and strip being coated with cadmium, and the metal of said integral mass being lead-bismuth alloy comprising approximately seven parts lead and one part of bismuth by weight.

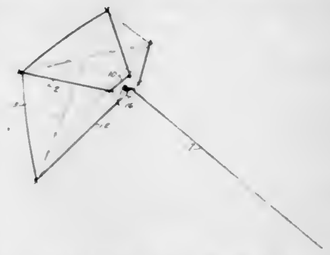
2,613,894
KITE CONTROL
Kenneth C. Howard, Fort Worth, Tex.
Application May 18, 1951, Serial No. 227,011
3 Claims. (Cl. 244—153)



1. A kite control comprising a housing adapted to be secured to the forward end of the bridle of a kite, a rod mounted for reciprocating movement in said housing and extending forwardly therefrom, a laterally projecting control arm on the forward end of said rod, and helix cam means carried by said housing and said rod for rotating the latter, the outer end of said arm being adapted for connection to the kite string.

2,613,895
KITE CONTROL
Kenneth C. Howard, Fort Worth, Tex.
Application May 18, 1951, Serial No. 227,012
3 Claims. (Cl. 244—153)

1. A kite control comprising a base adapted to be attached to the forward ends of the kite's bridle strings, a spindle projecting forwardly from said base, a control plate transversely secured on the forward end of said spindle, notches in the rearward periphery of said control plate for engaging the kite string when the latter is



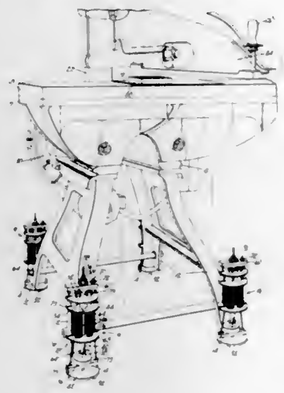
secured to said base and wound around said spindle and positioned against the said plate.

2,613,896
BRACKET FOR OUTBOARD MOTORS
Robert M. Witt, North Riverside, Ill.
1 Claim. (Cl. 248—4)
Application July 15, 1947, Serial No. 761,097



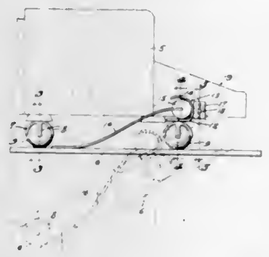
A bracket structure for use with an outboard motor having a supporting bracket including portions engageable with the upper edge of the stern transom of a boat at spaced points along said edge and having oppositely directed flanges projecting therefrom; said bracket structure comprising an inverted U-shaped bracket member whose legs are engageable with opposite sides of said stern transom in spaced relation to one of said flanges, transom engageable clamping means carried by one of said legs, a hinge member supported on said U-shaped clamping member and pivotally connected thereto for rotation about a vertical axis, an arm having one end thereof pivotally connected to said hinge member on a horizontal axis, a downwardly directed flange on the other end of said arm adjacent said motor bracket and having a free end engageable with said one of said flanges, and an elongated clamping bracket member for disposal on said edge of the stern transom and beneath said bracket portions, said clamping bracket member having an upwardly directed flange at one end thereof, means adjustably connecting said last flange and the downwardly directed flange on the arm, the other end of said clamping bracket member being of generally C-form and providing for the reception of the other motor bracket flange, and a pair of screws threaded into said C-form end portion and being adjustably engageable with the top and end of said other motor bracket flange.

2,613,897
VIBRATION DAMPING MOUNT FOR MACHINES
Lawrence E. Steimen, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 19, 1948, Serial No. 27,865
6 Claims. (Cl. 248—18)



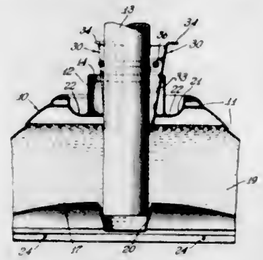
1. A vibration damping mount for machines comprising a base, a plurality of bowed resilient struts extending upwardly from the base, a hanger supported by the upper ends of the struts, a platform suspended from the hanger, and springs operatively connecting the hanger and platform for transmitting to the struts forces applied to the platform.

2,613,898
CUSHION SUPPORT FOR TYPEWRITERS
Clark H. Williams, New York, N. Y.
Application February 17, 1949, Serial No. 76,911
1 Claim. (Cl. 248—24)



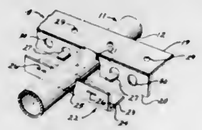
In a typewriter support a substantially U-shaped bracket having upwardly extending arms adapted to partially embrace a portion of a typewriter frame, means carried by one of the arms for clamping the bracket to the frame, a curved arm carried by one of the arms of the U-shaped bracket and extending laterally and upwardly therefrom, a lower arm carried by the curved arm and extending laterally therebeneath, a foot support carried by the lower arm and extending downwardly therefrom, a cushion carried by the foot support and extending downwardly therefrom for engaging a supporting surface and means carried by the support and engaging the curved arm and the lower arm for preventing endwise shifting of a typewriter on the supporting surface.

2,613,899
CHRISTMAS TREE STAND
Samuel Wagner and Theodore K. Kellner, Sheridan, Wyo.
Application February 15, 1950, Serial No. 144,282
4 Claims. (Cl. 248—44)



3. A tree-supporting stand comprising a corrugated inverted generally frusto-conical shaped shell having a flange portion at its smaller diameter for receiving the trunk of a tree, means on said flange portion for holding said trunk therein, said shell having a funnel depression at the base of said flange with apertures therein communicating with the interior of said shell, said shell also having an inwardly rolled edge at its large diameter for supporting said stand, a supporting plate having its peripheral edge secured to the interior of said shell above said rolled edge, said plate having a generally convex surface extending inwardly from said peripheral edge and having a tapered depression at its center for receiving the base of the tree, said plate and said shell forming a substantially water-tight chamber for receiving water therein.

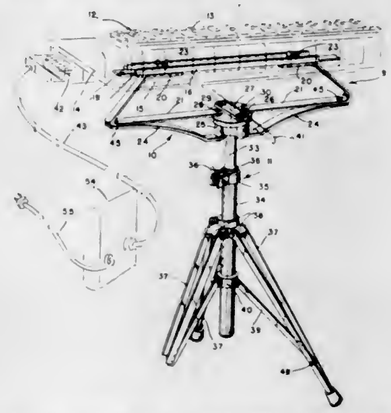
2,613,900
PANEL UNIT FOR RADIANT HEATING
Leo A. Byrnie, Torrington, Conn.
Application September 12, 1949, Serial No. 115,195
3 Claims. (Cl. 248—68)



1. In a panel unit for radiant heating, a plurality of elongated spaced brackets each having a side flange provided with a series of notches, a length of tubing comprising a plurality of runs disposed in said notches, and a plurality of U-shaped clips secured to said brackets by lugs struck out from said side flanges adjacent opposite sides of said notches, said clips embracing the edges of the side flanges of said brackets and bridging said notches for retaining the tubing therein and reinforcing said brackets.

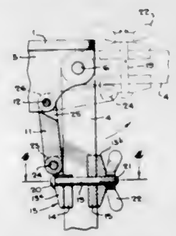
2,613,901
PORTABLE AND COLLAPSIBLE SUPPORT FOR MUSICAL INSTRUMENTS
Joseph S. Tatar, Chicago, Ill.
Application March 14, 1949, Serial No. 81,322
4 Claims. (Cl. 248—166)

1. A mobile, portable and collapsible support for melody type instruments and the like, comprising collapsible and adjustable tripod assembly means, collapsible instrument support means secured to the said collapsible and adjustable tripod assembly means, and set screw means mounted on the said collapsible instrument support means for releasably retaining and securing a melody type instrument, the said collapsible instrument support assembly means including flanged bushing means secured removably to the said collapsible and adjustable tripod assembly means, cantilever support strap means articulately secured to the bottom of the said flanged bushing means, channel supporting bracket means provided with inwardly bent channel supporting portions and articulately secured to the top portion of the said flanged bushing means in superimposed relationship with



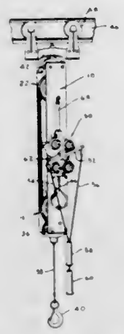
respect to the said cantilever strap support means, pivot pin means mounted in the said flanged bushing means pivotally securing the said cantilever strap support means and the said channel supporting bracket means thereto, the said cantilever strap support means having one end thereof secured to the said channel supporting bracket means substantially at a point where it is bent inwardly, and stop plate means secured to the flanged bushing means axially coincident with respect to a vertical axial plane thereof to limit the articulate movement of the said channel supporting bracket means in collapsed position thereof.

2,613,902
TRIPOD LEG CONNECTION
Jenard C. Loken, Inglewood, Calif.
Application January 21, 1948, Serial No. 3,620
3 Claims. (Cl. 248—192)



1. In a frame for supporting a camera or the like, a platen having means thereon for securing a camera, said platen having a substantially radially extending fin on its under side, a bifurcated leg, the forks whereof lie on opposite sides of the fin, a pivot bolt securing the ends of the forks to said fin, a link pivotally attached to the fin, a slide on the leg having an inner jaw pivotally connected to the link, and having an outer jaw on the outer side of the leg, and means for drawing the jaws toward each other to clamp the slide to the leg, including a part running in the space between the forks of the leg.

2,613,903
DUAL LOAD BALANCING HOIST
Henry T. Platz, Detroit, Mich., assignor to The Platz Company, Inc., Detroit, Mich., a corporation of Michigan
Application October 11, 1950, Serial No. 189,638
13 Claims. (Cl. 248—328)

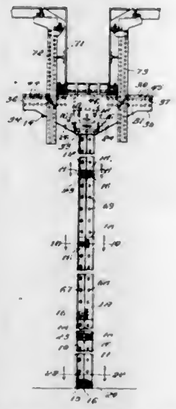


1. A dual load balancer comprising a cylinder, a piston operatively arranged in said cylinder for movement relative thereto, load supporting means connected to one of said members, a support for the other of said members, a fluid pressure system connected to one end of said cylinder on one side of said piston for supplying fluid under pressure to said end of said cylinder, said system including a high pressure side adapted to supply to said end of said cylinder pressure fluid at a pressure which will counterbalance a predetermined load to be supported by said means, an adjustable pressure regulator for regulating the pressure of said high pressure side, a low pressure side adapted to supply to said end of said cylinder pressure fluid at a pressure which will counterbalance a different predetermined load on said means, an adjustable pressure regulator for regulating the pressure of said low pressure side, and a control comprising a rotary valve operable for selectively subjecting said end of said cylinder to the pressure of the high and low pressure sides of said system.

2,613,904
ANGLE POST AND SHORING HEAD
Takeo Sato, Honolulu, Territory of Hawaii
Application August 26, 1948, Serial No. 46,327
1 Claim. (Cl. 248—354)

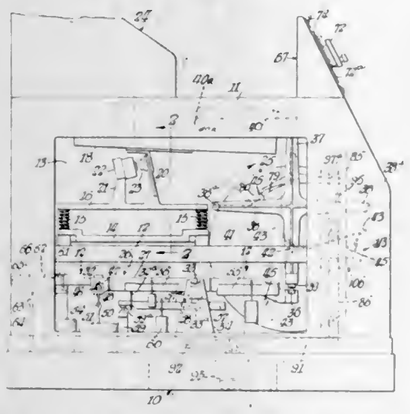
In an adjustable column, a horizontally disposed base, a pair of opposed V-shaped clip angles secured to said base and provided with openings therein, a first pair of coacting angle bars connected to said clip angles and each having a V-shaped cross section, a second pair of coacting angle bars of V-shape cross section slidably engaging said first pair of angle bars, the angle bars of said first pair being arranged with their apices facing each other, and the angle bars of said second pair having their apices facing each other, there being a plurality of spaced registering openings in said angle bars, the openings being arranged in the sides of said angle bars, V-shaped locking members connecting the angle bars of said first pair together and connecting the angle bars of said second

pair of angle bars together, studs extending through the registering openings in said angle bars, there being a slot arranged in each of



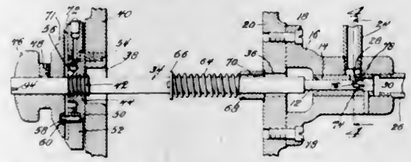
said studs, a tapered wedge positioned in each of said slots in said studs, a shoring head detachably mounted on the upper ends of said second pair of angle bars.

2,613,905
AUTOMATIC WEIGHING MACHINE
Louis R. Muskat, Oak Park, Ill., assignor to Triangle Package Machinery Company, Chicago, Ill., a corporation of Illinois
Application December 19, 1945, Serial No. 635,968
9 Claims. (Cl. 249—19)



1. In an automatic weighing machine, the combination of a bucket having end plates and a material receiving compartment, a scale upon which said bucket is mounted for a turning movement from a filling position to a dumping position for said compartment, a trippable member adjacent an end plate of the bucket normally engaged with a fixed part thereon for releasably holding the bucket against turning movement when said compartment is in filling position, mechanism adjacent said end plate and including a spring having a contracted unloaded condition, during a filling of said compartment and a latch with which said spring is engaged, said latch being releasably engaged with another fixed part on said end plate of the bucket, said mechanism further including an actuator arranged parallel with said end plate and upon which said latch is pivotally mounted, said actuator being controlled by said scale and operative when weight has been made in said compartment to expand said spring to tension and power load the same and then actuate said trippable member to release said bucket and permits said power loaded spring to contract and function through said latch to turn the bucket with a snap action from said filling position for said compartment to said dumping position therefor.

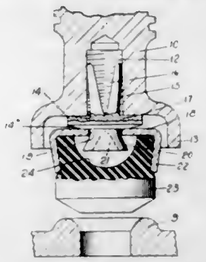
2,613,906
HYDRAULIC CONTROL VALVE
Hans C. Weimar, Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, Providence, R. I., a corporation of Rhode Island
Application May 25, 1948, Serial No. 29,042
8 Claims. (Cl. 251—34)



1. A hydraulic control valve which comprises a cylindrical valve element and a cylindrically chambered valve receiving element, said valve element and chambered valve receiving element having cooperating valve ports formed with rectilinear transverse and longitudinal edges substantially square with the axis of said cylindrical elements and arranged to be brought into overlapping relation by movement of the valve element to provide a throttle opening, a nut, an extension of the valve element threaded to the nut, said valve and chambered valve receiving elements being disposed with relation to one another so that the screw movement of the valve element relative to the nut effects a substantially simultaneous overlapping of the cooperating transverse and cooperating longitudinal edges of said ports to increase the area of the throttle opening of said valve from closed to open position, and means supporting the nut in fixed axial relation to the valve receiving element and for rotatable adjustment with relation thereto, whereby rotation of the screw from a fully closed position of the valve will indicate the adjusted angular position of the threaded extension with relation to said supporting means for the blanking-off of said longitudinal edges, and a rotational adjustment of the nut relative to the threaded extension will indicate the adjusted position of the threaded extension axially with relation to the nut for the blanking-off of said transverse edges, and a subsequent rotational movement of the nut and threaded extension as a unit to the previously adjusted angular position of the threaded extension will accurately determine the shut-off position of the valve.

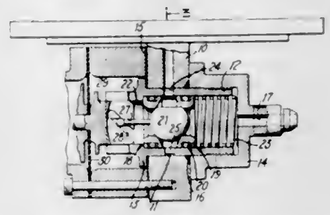
2,613,907
SEALING UNIT FOR A VALVE MECHANISM
George B. Stillwagon, Jr., Dayton, Ohio, assignor of one-half to Kenneth G. Fraser, Dayton, Ohio
Application January 29, 1945, Serial No. 575,166
4 Claims. (Cl. 251—46)

1. A sealing unit for a valve having a rotatable valve stem provided at its inner end with an axial opening, said unit including an imperforate plate, alined studs rigidly and permanently secured to the respective sides of said plate, one of said studs being adapted to be inserted in said opening in said valve stem and having means for frictionally retaining the same therein, a supporting member permanently and rotatably mounted on the other of said studs, the marginal portion of said plate being beveled to permit



said supporting member to have tilting movement with relation to said plate, and a sealing member permanently secured to said supporting member, and movable by said valve stem into and out of engagement with the seat of said valve.

2,613,908
THREE-WAY BALL VALVE
Peter H. Palen, Paterson, N. J., assignor to Reaction Motors, Inc., Dover, N. J., a corporation of New Jersey
Application May 14, 1947, Serial No. 747,929
1 Claim. (Cl. 251—109)



A valve body having a fluid passage therethrough, a pair of spaced circular valve seats in said passage one of which is spring loaded, a solid ball positioned within the space between the seats and solely supported thereby for rotary movement, said ball having a flat thereon so configured that when the ball is in one position it affords communication past the said flat between one end of the passage and the space between said seats, in a second position it affords communication between the other end of the passage and the space between the seats, and in a third position it prevents such communication, and means for rotatively tilting said ball from one to each of the other positions about a transverse central axis of said ball which is perpendicular to the longitudinal axis of said passage and substantially parallel to the said flat.

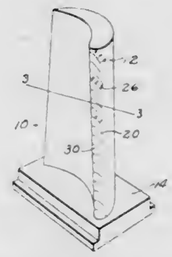
2,613,909
TURBINE AND COMPRESSOR BLADING IN AXIAL FLOW INTERNAL-COMBUSTION TURBINE POWER PLANTS
William Rede Hawthorne, Silver Spring, Md., assignor to Power Jets (Research and Development) Limited, London, England
Application January 31, 1945, Serial No. 575,543
In Great Britain January 31, 1944
10 Claims. (Cl. 253—39.15)

1. A turbine or similarly bladed fluid flow machine required to run at high temperatures and especially a combustion gas turbine, comprising a rotor blading each blade of which includes a blade part proper disposed in the working fluid channel and an extension part having a blade formation which projects into and in effect extends the blade structure beyond a boundary of said channel into a cooler zone which includes a fluid flow channel, each said blade having common both to its blade part proper and to its extension part a closed internal cavity containing a coolant medium only partly



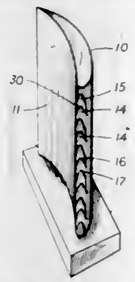
filling same and convective in the conditions of operation and said cavity being arranged so that the coolant medium will be centrifuged into the blade part proper in use, the arrangement being such that due to the relative location of said blade and extension parts, their differential temperature and the centrifuging of the coolant medium, conditions are provided in which a convective circulation of the coolant will be set up in use, and means to maintain a flow of cooling medium through said fluid flow channel.

2,613,910
SLOTTED TURBINE BLADE
Edward A. Stalker, Bay City, Mich.
Application January 24, 1947, Serial No. 724,103
6 Claims. (Cl. 253—39.15)



1. In combination to form a slotted turbine blade, a sheet metal tube having a blade cross section, said tube having inclined spaced platelets disposed spanwise along said tube and fixed thereto, each said platelet lapping a spanwise succeeding platelet to form a chevron shaped slot therebetween with the apex of said slot being substantially at the stagnation point for discharging fluid tangentially along the exposed surface of said succeeding platelet from within the blade with substantial spanwise as well as chordwise components of velocity providing for a flow of fluid across the exposed surface of each said platelet toward the same end of said blade, the wall of said tube having openings therethrough from the tube interior to said slots, said fluid providing an insulating layer of air on the blade surface to exclude heat from turbine gases.

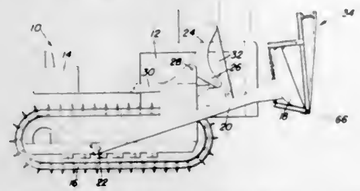
2,613,911
FLUID TURNING BLADE
Daniel Jarvis Clarke, Bay City, Mich., assignor to Stalker Development Company, Bay City, Mich., a corporation of Michigan
Application November 6, 1947, Serial No. 784,457
17 Claims. (Cl. 253—77)



1. A hollow blade for use in a turbine or the like comprising a pair of plates with notched interfitted edges having portions depressed at an angle to the plane thereof defining a pattern of slots each extending at an acute angle to the face of said plates, the sheets being bent into blade shape with the slots being located upon and extending across the nose of the blade and opening in a direction generally spanwise thereof.

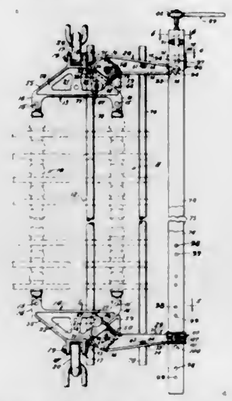
11. The method of fabricating a hollow blade adapted for use in conjunction with a hot gas flow which comprises stamping a pair of sheet metal plates having complemental platelets and notches therein on adjacent faces, interfitting said stamped plates with each other to form a series of open slots and securing said notched edges of one plate to the complemental portions of the other said plate, and bending the plates to constitute opposite faces of a hollow blade with said series of slots being located on and extending across the nose of the blade and opening in a direction generally spanwise of said blade.

2,613,912
FENCE POST SETTING AND PULLING RIG
James W. Jordan, Tallulah, La., assignor of fifty per cent to L. W. Burgess, Tallulah, La.
Application July 24, 1950, Serial No. 175,518
6 Claims. (Cl. 254—29)



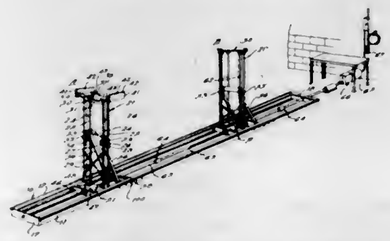
1. A machine for setting fence posts comprising a bulldozer including a blade and means for elevating and lowering the blade, a post driving assembly comprising a frame including a pair of spaced upright members, a driving head connecting said members adjacent their upper ends, a pair of vertically spaced upper and lower bars extending rearwardly of each of said upright members, one of said bars of each pair thereof being pivotally connected to the upright member for swinging movement towards the other bar and releasably clamping the blade therebetween and securing means releasably connecting each upper and lower bar adjacent their rearmost extremities.

2,613,913
STRAIN CARRIER FOR TWIN STRINGS OF INSULATORS
David Charles Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri
Application January 5, 1950, Serial No. 136,995
17 Claims. (Cl. 254—67)



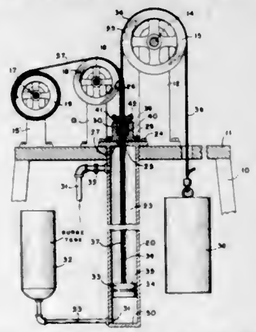
1. In a strain carrier for relieving the strain of one of a pair of string insulators supported by yokes, the combination of a pair of insulating tension members, said tension members being secured in spaced relation and parallel to each other, with a pair of torque arms, both torque arms having free ends pivotally mounted between said tension members and both torque arms being provided at their opposite ends with means for fixed securement to the yokes which carry the string insulators, and force multiplying means mounted between said insulating tension members and exerting a push on one of said torque arms to tilt the yokes which support the string insulators and relieve the strain on one of said string insulators, the said force multiplying means being located outwardly of both torque arms so that the insulating tension members utilize the entire space between the torque arms for insulation.

2,613,914
HOISTING APPARATUS
David A. Wallace, Grosse Pointe Farms, Mich.
Application October 8, 1949, Serial No. 120,255
15 Claims. (Cl. 254—89)



1. A load receiving support for the boom member of hoisting apparatus including a stationary bracket adapted to be fixed to an end portion of said boom member, and a load receiving seat element freely linearly shiftably mounted on said bracket having an upwardly extending exposed edge portion provided with a series of spaced notches aligned in parallel relationship to the direction of linear shifting movement of said seat element for receiving a portion of said load and intermediate substantially pointed tapering lands between said notches having opposite downwardly diverging sides for contacting said portion of said load when said portion of said load is not aligned with at least one of said notches and shifting said seat element to bring one of its notches into alignment with said portion of said load.

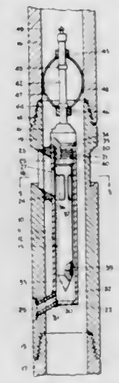
2,613,915
HOISTING DEVICE
Albert L. Stone, Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application December 28, 1949, Serial No. 135,364
4 Claims. (Cl. 254—93)



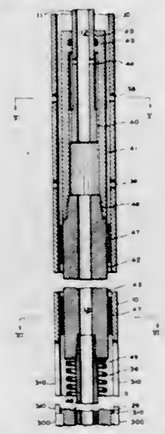
1. A hydraulic hoisting device comprising, in combination, a housing having walls defining a chamber and a port communicating with said chamber, the axis of said port being substantially coincident with the longitudinal axis of said chamber, said chamber being fluidly connectible with a source of fluid under pressure, a piston slidably arranged in said chamber for longitudinal movement therein in fluid-tight relation with the walls forming said chamber, a rotatable sheave mounted in spaced relation from said housing, the outer periphery of said sheave being substantially tangential to the longitudinal axis of said chamber, a flexible piston rod affixed at one end to said piston and extending through said port and over said sheave, a resilient sealing member adapted to move longitudinally through said port in cooperation with said flexible piston rod to provide a fluid-tight seal between said flexible piston rod and the walls of said housing defining said port, and a reel mounted in spaced relation from said housing for receiving in the form of an elongated strip the resilient sealing member when said piston moves toward the piston rod end of said chamber and for paying off said resilient sealing member when said piston is moving away from the piston rod end of said chamber.

2,613,916
SAMPLING SUB WITH REMOVABLE CUTTING COLLECTOR
James N. Gregory, Fullerton, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application October 31, 1950, Serial No. 193,189
11 Claims. (Cl. 255—1.4)

1. Apparatus for collecting earth cuttings from mudflush circulating in a borehole, comprising in combination a tubular member adapted to be connected into a drill string, a tubular holder fixedly carried within the bore of said tubular member co-longitudinally therewith, the outer diameter of said holder being appreciably smaller than the inner diameter of said bore, whereby a fluid passage is formed within said bore about said holder, a hollow cylindrical sample collector slidably fitting within the holder, radial window means through the walls of said collector, ported radial conduit means through the walls of said tubular member and said tubular holder adapted to register with said window means when said collector is inserted in said holder, and fishing head means affixed to the upper part of said collector for raising said collector from said holder.



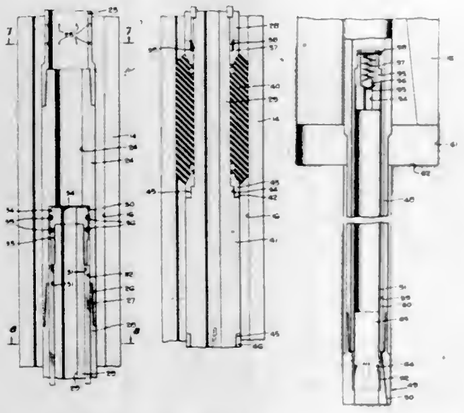
2,613,917
TURBINE-IMPACT DRILL
William R. Postlewaite, Menlo Park, Calif., assignor, by mesne assignments, of one-half to California Research Corporation, San Francisco, Calif., a corporation of Delaware, and one-half to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 14, 1948, Serial No. 21,083
1 Claim. (Cl. 255—4.4)



In a rotary-impact well drilling tool adapted to be positioned at the lower end of a conduit extending downwardly from the surface and including a prime mover adjacent the lower end of the conduit having a housing connected to said conduit and a downwardly extending rotatable shaft concentric therewith, the combination comprising an elongated drill collar connected to said shaft and splined therewith to be longitudinally movable, a second concentric

shaft below said drill collar and rotated thereby, the lower end of said second shaft adapted to receive a drill bit, a weight slidably and rotatably mounted on said second shaft, longitudinally movable means connecting said housing and said weight for restraining said weight from rotation relative to said housing, an inclined face on said weight and means on said second shaft engaging said inclined face for periodically lifting and dropping said weight onto said second face due to rotation of said shaft.

2,613,918
WIRE LINE CORE BARREL
Thomas Leonard Long, Houston, Tex., assignor, by mesne assignments, to Johnston Testers, Inc., Houston, Tex., a corporation of Delaware
Application February 20, 1950, Serial No. 145,229
4 Claims. (Cl. 255—72)



1. In a device for taking cores, a rotatable drill collar, a cutter head on the lower end of the drill collar having a central bore and upwardly extending passageways in the walls thereof communicating with the interior of the drill collar at points outwardly of the central bore, a core barrel mounted on the cutter head and extending upwardly therefrom and closing off communication between the central bore and the interior of the drill collar and having the interior thereof in communication with the central bore of the cutter head, said core barrel having the walls thereof spaced from the interior of the drill collar to provide an annular space for the passage of fluid to the passageways in the cutter head, a packer on the exterior of the drill collar for engagement with the interior of a drill string or the like, said drill collar having an opening therethrough above the packer communicating the exterior of the drill collar with the interior thereof, and means for connecting the drill collar to a drill string to permit driving of the drill collar.

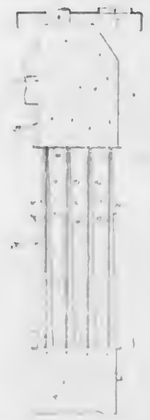
2,613,919
ELECTRICAL SYSTEM FOR CONTROLLING THE TEMPERATURE OF INDIVIDUAL AIR STREAMS
Edward A. Russell and Timothy J. Lehane, Chicago, and Robert E. Pidgeon, Round Lake, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware
Application February 12, 1949, Serial No. 75,992
15 Claims. (Cl. 257—3)

3. In an electrical system for controlling the temperature of an enclosure, the combination with a main air duct for supplying air for the enclosure, a blower for delivering air into the main duct, means including a main heating element and a cooling element selectively operable for tempering the air delivered into the main duct, and a series of branch ducts for delivering air from the main duct into different zones of the enclosure; of means associated with each branch duct for altering the temperature of the air received from the main duct, separate thermostats located in each of the zones served by said branch ducts and responsive to the temperatures of their respective zones for controlling the several branch duct temperature altering means, a duct thermostat responsive to a predetermined temperature of the tempered air in the main duct for controlling the main heating element and including an electrical heater, a cooling control thermostat set to function at a higher temperature than the said duct thermostat and responsive to the general temperature of the enclosure for controlling said cooling element, an electrical heater for said cooling control thermostat connected in parallel with the duct thermostat heater, and means actuated by the functioning of any one of the zone thermostats for closing an energizing circuit of equal heating value through both said electrical heaters, whereby the duct thermostat and the cooling control thermostat are both adjusted to function at lower temperature settings.



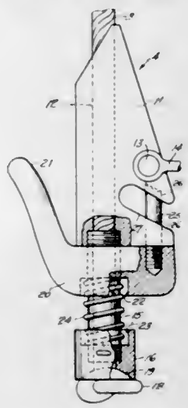
2,613,920
HEAT EXCHANGER
Kendall H. Flint, Kalamazoo, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application December 14, 1949, Serial No. 132,938
6 Claims. (Cl. 257—174)

1. A heat exchanger for a warm air furnace comprising, a plurality of upstanding tubes of substantially shallow flat rectangular contour with a pair of substantially flat walls and arranged in parallel spaced relation to each other for receiving the products of combustion from a heat source, said tubes being defined by a series of sections, each section comprising a substantially flat U-shaped channel configuration and being bent back on itself to define the legs of a second U-shaped configuration, one leg of said last mentioned U-shaped configuration forming one-half of the shallow rectangular tube and the other leg of said last mentioned U-shaped configuration forming one-half of the next adjacent shallow rectangular tube, said substantially flat walls having a plurality of indentations which substantially meet the center line of said tube and extend substantially transverse the width thereof, said indentations being spaced along both walls and successively alternated so as to be spaced from the opposing wall of the tube to provide a serpentine path in the tube for the products of combustion, the opposed walls of each



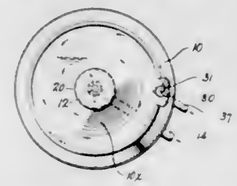
tube being continuously tapered toward each other in an upward direction to provide a larger opening at the bottom than the top, and inward cupped-like deformations on the walls opposite the indentations of the same tube and in touching relationship with said indentations to provide spacers to hold said walls of the respective tubes in proper spaced relation.

2,613,921
AERIAL PICKUP AND RELEASE DEVICE
Le Roy S. Jessen, Fairborn, Ohio
Application October 10, 1950, Serial No. 189,462
2 Claims. (Cl. 258—1.8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An aerial pick-up and release device comprising, a body member having a body portion and a guide portion on the lower end thereof, and a lengthwise passage extending through the body portion and the guide portion of the body member for passing a load-carrying line or cable therethrough, an abutment member on the free end of the guide portion, a hook member slidably mounted for limited up-and-down movement on said guide portion between said abutment member and the body portion, said hook member including a hook portion projecting from one side of said body member, a compression coil spring on said guide portion between said abutment member and said hook member, means providing a recess in said body member at the side thereof opposite to that from which said hook portion extends, an upwardly extending bore in said body portion parallel to said guide portion and crossing the mouth of said recess, and an upstanding extension means rigidly connected to said hook member and slidable in said bore restraining rotational movement of said hook member and adapted to close the mouth of said recess when said hook member is in a projected position adjacent to the body portion and to open the mouth of said recess when said hook member is in the retracted position, whereby interception of a pick-up parcel line by said hook portion moves said hook member from its normally biased resting projected position to the retracted position which simultaneously moves said upstanding extension on said hook member to open the mouth of said recess for releasing a deposit parcel line.

2,613,922
SOLUTION MIXING AND DISTRIBUTING APPARATUS
Francis L. Gatchet, Gardiner, Wash.
Application January 13, 1950, Serial No. 138,335
2 Claims. (Cl. 259—4)

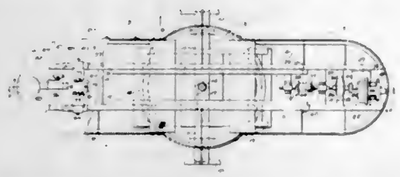


1. In a solution mixing and distributing apparatus, a vertically disposed mixing tank of circular form, equipped with an upwardly pointed conical bottom, an outlet pipe extended into the tank through the said bottom and along the axial center of the tank; said pipe terminating substantially above the bottom in an open upper end for receiving solution from the tank, a pump operable to forcibly deliver water into the tank adjacent the bottom wall thereof and in tangental direction to cause the liquid body to whirl axially in the tank with centrifuging effect on undissolved material contained therein and to withdraw liquid from the tank through the outlet pipe, and a solution value adapted to rise and fall with the liquid in the tank and to close over the open end of the outlet pipe when the level of solution drops to a predetermined level.

2,613,923
PAVEMENT BREAKING MACHINE
Walter V. Cornett, Los Angeles, Calif.
Application October 24, 1946, Serial No. 705,446
5 Claims. (Cl. 262—13)

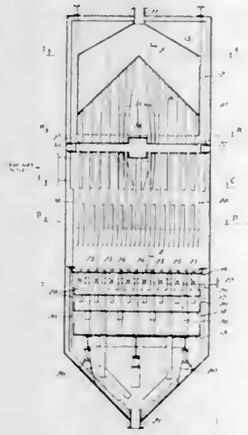
1. In a device of the character described, a turntable having a journal block thereon, a trunnion block mounted in said journal block and adapted to move about a horizontal axis above said table, a fluid operated impact tool carried on said trunnion block and movable therewith, said tool including a cylinder and piston therein, said cylinder having ports located

on opposite sides of the piston, conduits extending from said ports and having bores aligned with the axis of said trunnion block a second set of conduits communicating with said bores and thereby being axially aligned with said axis



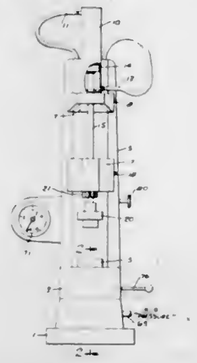
of said trunnion block, and slip connections between said sets of conduits whereby said first conduits may remain fixed in respect to said cylinder ports when said cylinder is moved about said axis.

2,613,924
HEATER
Robert D. Drew, Wenonah, and Eric V. Bergstrom, Short Hills, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application March 7, 1947, Serial No. 733,012
2 Claims. (Cl. 263—19)



1. A heater for granular solid heat transfer material comprising a vertical shell adapted to enclose a moving bed of such material, means for feeding granular solids to the upper portion of said shell, draw-off means for removing granular solids uniformly from the lower portion of said shell to maintain a moving bed of such solids in said shell, a plurality of tubes extending downwardly in said shell and terminating in open ends facing downwardly and situated in substantially the same horizontal plane within said shell, the said open ends of said tubes being flared to substantially greater cross-sectional area than the cross-sectional area of said tubes above said flared ends, the arrangement of said tubes and the flaring of the ends thereof being such that the cross-sectional area of said bed available for vertical countercurrent passage of granular solids and gases is substantially restricted at said horizontal plane as compared with planes thereabove and therebelow, means to admit air to said tubes above said ends, means to admit fuel to said shell below the lower ends of said tube, and exhaust means to withdraw gases from the upper portion of said shell; whereby air and fuel are caused to be mixed below said flared open ends and combustion initiated in a region of low velocity passage of the burning mixture through a mass of moving compact granular solids and the burning mixture thereafter passes in succession through regions of high velocity turbulent flow and relatively low velocity flow within said moving bed before discharge from said shell.

2,613,925
PNEUMATIC LOAD INDICATING DEVICE
Milton N. Weber, Detroit, Mich., assignor of one-half to Herbert W. Link, Detroit, Mich.
Application February 1, 1952, Serial No. 269,519
12 Claims. (Cl. 265—47)

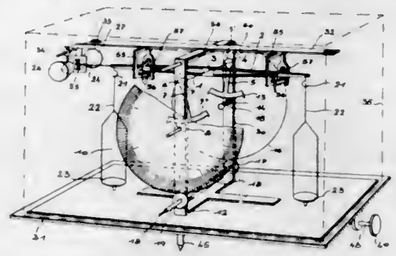


1. A load indicating device comprising, a support for receiving a load, a chamber for receiving air under pressure and having a relatively large movable element arranged to support the major portion of the load, a second chamber for receiving air under pressure and having a relatively small movable element arranged to support the minor portion of the load, the second chamber being adapted to be connected to a source of air under pressure, an air inlet valve operable by the movement of the movable element of the second chamber to admit air under pressure when a load is placed upon the support, and operable to closed position when air under pressure has been admitted to balance the load, so that the balancing air pressure may be gauged to ascertain the load, and an exhaust valve operable by the movement of the movable element of the second chamber to exhaust air when a load is removed from the support.

2,613,926
PRECISION WEIGHING BALANCE
Georg Gorbach, Graz, Austria, assignor to Sartorius-Werke A. G., Gottingen, Germany
Application May 26, 1947, Serial No. 750,482
4 Claims. (Cl. 265—59)

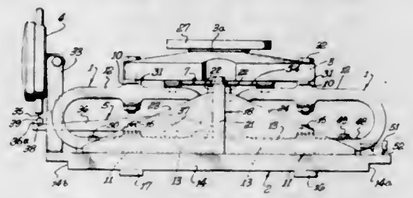
1. Precision weighing balance comprising a balance beam, a straight torsion wire fixed to the centre of said beam, constituting the axis of rotation of said beam and extending perpendicularly to said beam at both sides thereof, a zero adjustment device for adjusting the balance beam in unloaded condition to its horizontal or zero-position comprising an arm secured to the end of said torsion wire at one side of said beam, a disk, a shaft for said disk, a drive for rotating said disk and a gear between said arm and said disk for converting the rotating movement of said disk into an angular movement of said arm,

and a weight indicator for twisting said torsion wire and readjusting the loaded balance beam to its horizontal or zero-position, comprising a rocking lever secured to the end of said torsion wire at the other side of said beam, a dial, a



shaft for said dial, a drive for rotating said dial and a gear between said rocking lever and said dial for converting the rotating movement of said dial into an angular movement of said rocking lever.

2,613,927
WEIGHT DETERMINING APPARATUS
Epaminondas James Demas, North Hollywood, Calif., assignor to Triplett & Barton Inc., Burbank, Calif., a corporation of California
Application August 23, 1945, Serial No. 612,230
7 Claims. (Cl. 265—68)

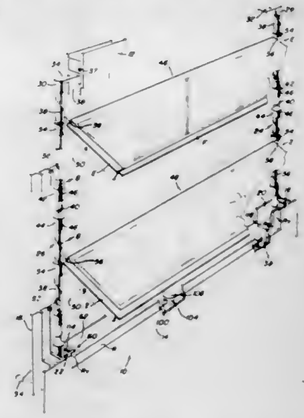


1. In weight determining apparatus, means forming a base, a loading member, means mounting said member on the base for movement toward and away therefrom including a plurality of elastic ring-like elements disposed in planes normal to said base, said elements being adapted to yield in response to the loading of said member, and means insuring that the force exerted by the load acts in the planes of said elements, comprising a thin ring-like member extending transversely of said planes and connecting the loading member to the base.

2,613,928
CLOSURE OPERATOR
Arthur J. Cote, Clearwater, Fla., assignor of one-half to Amanda C. Cote, Clearwater, Fla.
Application February 12, 1951, Serial No. 210,555
4 Claims. (Cl. 268—21)

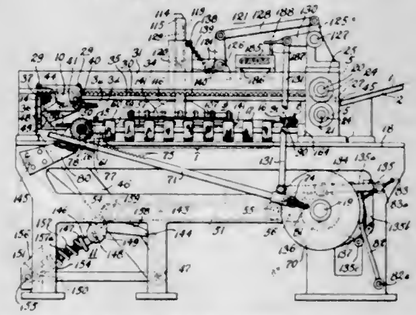
1. A window structure comprising a frame including a pair of hollow vertical portions and a hollow horizontal portion, a pair of vertically disposed screws mounted in said vertical portions for rotation, a plurality of windows disposed one above the other, traveling members threaded on said screws and pivoted to said windows, pitmans connecting said windows to said vertical portions, means in said horizontal portion and operatively connected to said screws for simultaneously rotating the screws to move the members on the screws, each of said screws including a plurality of vertical sections disposed one above the other,

and means detachably securing the adjacent ends of adjacent sections together, said securing means including an elongated coupling having end sockets receiving the adjacent ends of a pair of ad-



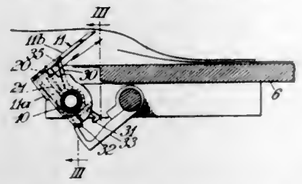
jacent sections, and locking members carried by the end sockets and engaging the adjacent ends of the pair of adjacent sections to removably connect the coupling to adjacent sections.

2,613,929
SHEET DIVIDING AND COMPILING MACHINERY
Edward B. Sullivan, Cincinnati, Ohio
Application May 15, 1950, Serial No. 161,906
12 Claims. (Cl. 270—58)



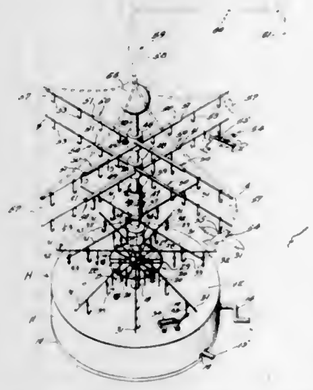
1. In a machine for collating a plurality of strips of paper in stacks on an intermittently moving conveyor, comprising a drive mechanism for advancing the conveyor step by step, the length of each step being approximately equal to the width of a strip of paper, means for feeding simultaneously in tandem fashion a plurality of parallel strips of paper and releasing them over and above the conveyor in said parallel relation, means operating in timed relation to the feeding means for causing the strips to be released over and transversely of the conveyor while the conveyor is at rest, a strip settler disposed above said conveyor and covering the area of said plurality of strips, means for alternately lowering said settler onto said strips and pressing them against said conveyor and raising the same to an elevation above a plane containing the feeding means for said strips, and means for actuating said lowering and raising means in timed relation with the feed of the conveyor so that the settler completes each of its down strokes while the conveyor is at rest.

2,613,930
SHEET REGISTERING APPARATUS
Headley Townsend Backhouse, Sunningdale, England
Application November 9, 1949, Serial No. 126,264
In Great Britain November 12, 1948
6 Claims. (Cl. 271—60)



1. In a sheet feeding machine of the kind in which a succession of partly overlapped sheets are fed as a continuous stream over a layboard to a position where each sheet in turn is brought to rest and registration of the sheet is effected and from which board the sheet is then removed while the underlying sheet is approaching the registering position, the combination of a scraper device arranged to move against the direction of the flow of the sheets while scraping the undersurface of the sheet being removed and in such timed relation with the feeding of the sheets that the device will meet and engage the front edge of a succeeding sheet as it approaches the registering position, the scraper device being arranged to engage the said front edge to separate the edge from the overlying sheet, means for moving the scraper device as aforesaid and an air nozzle incorporated in the scraper device for movement therewith, the nozzle being arranged initially to direct the air upwardly against the undersurface of the sheet being removed, and, as the scraper device moves as aforesaid, progressively to direct the air blast against the direction of flow of the sheets until the blast is directed between the upper surface of the succeeding sheet as it approaches the front lay position and the undersurface of the overlying sheet being removed.

2,613,931
TOY CARROUSEL
Henry Singer, Honolulu, Territory of Hawaii, assignor of one-half to Oi Gin Pung, Honolulu, Territory of Hawaii
Application July 6, 1948, Serial No. 37,131
1 Claim. (Cl. 272—31)



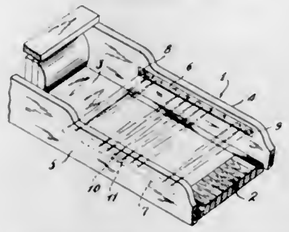
In a toy of the class described, a base having the form of a hollow cylindrical housing, a mast rising axially of and from within said housing, a spoked wheel carried by said mast above said housing, angled standards rising from the top of said housing beneath said wheel, bells pivotally supported on said standards, and extensions from said bells disposed in the path of movement of the spokes of said wheel for actuation thereby to impart swinging motion to the bells.

2,613,932
EXERCISING APPARATUS
Frank Manners, New York, N. Y.
Application January 26, 1950, Serial No. 140,567
1 Claim. (Cl. 272—80)



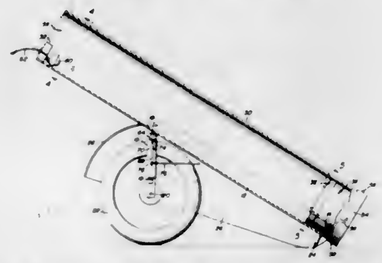
An exercise appliance having a pair of elastic loops each for extension vertically along the front and back of the human body with diametrically opposite portions of the loop passing over one shoulder and beneath one foot; a pad for each shoulder and including a bulged strap portion slidably receiving one end of said loop, compressible tubular stirrups through which the other end of said loop slidably passes, ankle stalls for each foot, said ankle stalls including bulged straps to slidably receive a loop, said ankle stalls including means for adjustably securing said ankle stalls to the user's ankles, and body bracing web means slidable on said loops securing said loops both on the front and back of the user's body.

2,613,933
PHOTOELECTRIC CELL CONTROL FOR BOWLING ALLEYS
Henry S. Johns, Cleveland Heights, and William H. Johns, Gates Mills, Ohio
Application March 18, 1950, Serial No. 150,362
7 Claims. (Cl. 273—54)



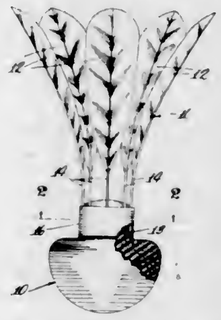
4. In a bowling alley, light producing means, mirror means for reflecting a beam of the light transversely of the alley and progressively along same at the pin receiving zone thereof, said light producing means and mirror means positioning the light beam vertically above any fallen pins on the alley and below the tops of any standing pins on the alley, a pin on the alley interrupting such reflected light beam, photo-electric cell means positioned to receive said light beam when reflected along a predetermined length of the alley, and circuit means controlled by said photo-electric cell means.

2,613,934
PORTABLE TARGET APPARATUS
Guy R. Tabler, Hardin, Mo.
Application May 4, 1950, Serial No. 160,008
4 Claims. (Cl. 273—102.4)



1. In a portable target apparatus, the combination of an elongated frame, a cylindrical barrel mounted on said frame and provided at one end thereof with an opening whereby missiles may pass therethrough, a missile arrester removably positioned in the remaining end of said barrel, a target card provided on said arrester, and a source of light provided in the barrel adjacent said opening for illuminating said card, said missile arrester including a drum disposed in said barrel, an end wall on the end of said drum which registers with the open end of said barrel, resilient packing in said drum, and a metallic panel in said drum spaced from the ends thereof.

2,613,935
SHUTTLECOCK TYPE PLAY BALL
Willard R. Richards, Warren, Ohio
Application September 3, 1949, Serial No. 113,957
2 Claims. (Cl. 273—106)



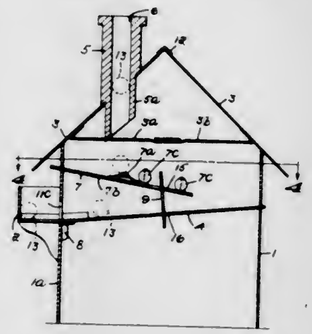
1. A play ball, comprising: a generally semi-spherical body formed of sponge rubber, having an integral neck portion extending from the surface opposite the spherical surface; a plurality of feathers, each having a quill portion adapted to lie along said neck portion; and rubber band means encircling said neck portion and clamping said quill portions to said neck portion, said rubber band means being of a width less than the length of said neck portion so that its position with respect to the longitudinal extent of said neck portion determines the spread of said feathers.

2,613,936
RETRACTABLE ARROW POINT
Thomas Baltimore Dalton, Montague, Mich., assignor to Valley Research Corporation, Montague, Mich., a corporation of Michigan
Application May 7, 1949, Serial No. 92,026
3 Claims. (Cl. 273—106.5)



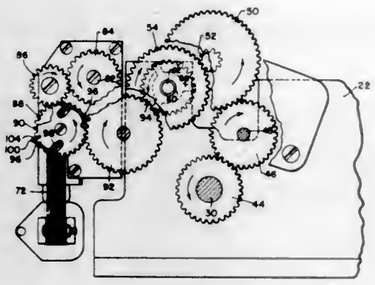
1. An arrow point for application to the end of an arrow shaft, comprising a solid one piece metal member of generally tapered construction terminating in a relatively sharp point to facilitate the penetration of the arrow point into a target, the surface of said tapered point portion provided with thread-like spiral grooves encircling the point portion whereby to provide means permitting said arrow point to be spirally retracted from said target.

2,613,937
TOY HOUSE MARBLE GAME
Ralph A. Kitson, Hull, Mass.
Application March 17, 1948, Serial No. 15,379
1 Claim. (Cl. 273—120)



A game structure for marbles and the like, comprising a vertical conductor adapted for the passage of spherical objects in free fall therethrough, diverging means beyond said conductor in said fall-path, an inclined platform below said diverging means in said fall-path adapted to arrest said fall, a plurality of deflector members at the lower extremity of inclination of said platform forming converging runways therebetween, a receiving platform adjacent the restricted ends of said runways, and an aperture adapted for the passage of said spherical objects intermediate each of said ends and said platform, said structure being in the form of a building and having wall members, a removable chimney constituting said vertical conductor, a removable support for said diverging means, a removable spacer piece for holding said support in elevated position with respect to said platform, said diverging means having a rounded impact surface, and said removable support having a port therethrough for passing an object deflected from said impact surface, a removable interior elevated floor constituting said inclined platform, a removable exterior gallery constituting said receiving platform, and means holding said removable elements in assembled position.

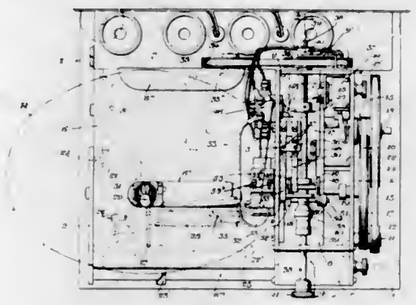
2,613,938
BACKSPACING MECHANISM
Charles L. Bossmeyer, Rockford, Ill., assignor to Dictaphone Corporation, Bridgeport, Conn., a corporation of New York
Application September 13, 1947, Serial No. 773,823
4 Claims. (Cl. 274—11)



2. In adjustable speed sound reproducing equipment of the type wherein a translating element follows a continuous sound track disposed in closely spaced loops on the surface of a driven recording medium: a reproducer carriage mechanism in which the translating element is supported, the mechanism being disposed for travel along a path transverse with respect to the direction of the sound track loops, a feed screw meshed with the mechanism and rotatable to advance or backspace it along the path, a drive unit including a portion positively coupled to the feed screw, a high inertia type recording medium supporting and driving assembly associated with said reproducer carriage mechanism for moving the recording medium with respect to said path, an adjustable speed motor having a range of from low speed to a high speed at least several times that of the low speed coupled to said recording medium assembly, a power take-off assembly coupled to said recording medium assembly and in drivable relationship with said drive unit to rotate the feed screw at a selected speed in a direction which advances the mechanism, a backspace motor of high speed as compared to the lower speeds of said adjustable speed motor and low inertia as compared to said supporting and driving assembly, said motor being disposed adjacent said feed screw and directly and positively engageable upon demand with said drive unit to rotate the feed screw in the other direction independently of the operation of said adjustable speed motor, and a backspace control assembly operative between said backspace motor and said drive unit predetermining the drive of said backspace motor upon initiation of a backspace operation.

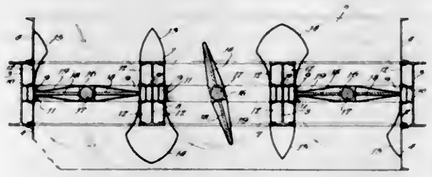
2,613,939
SOUND RECORDING AND REPRODUCING MACHINE
Frank L. Moore, Hartford, Conn., assignor to The Gray Manufacturing Company, Hartford, Conn., a corporation of Connecticut
Application February 4, 1946, Serial No. 645,377
10 Claims. (Cl. 274—12)

1. In a sound recording and reproducing machine the combination comprising a relatively translatable recorder-reproducer unit and means for rotatably supporting a record, electric motor and transmission means for producing relative rotation and translation between said unit and means, a switch for energizing and deenergizing said motor, a single control member for actuating said switch and independently of said motor



effecting relative translation of said unit and means, and motion transmitting elements interconnecting said member in actuating relationship with said switch and transmission.

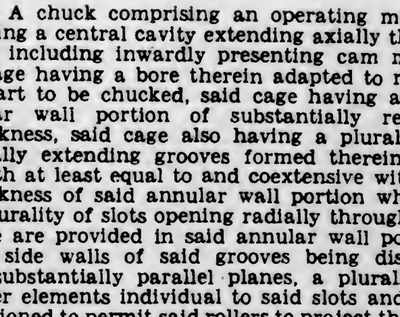
2,613,940
LOUVER DAMPER WITH PRESSURE SEAL
Stuart B. Smith, Chicago, Ill., assignor to Henry Pratt Company, a corporation of Illinois
Application April 13, 1949, Serial No. 87,334
8 Claims. (Cl. 277—59)



1. A louver damper structure comprising: a metal frame, a plurality of parallel oscillatable metal louver blades journalled in said frame and spaced apart between their centers a distance greater than the width of a blade, metal partitions between adjacent louvers, fluid-tight metal box-like tubular strips mounted on said frame and partitions to form tangential metal seats for the edges of said blades and means for connecting the interior of said strips to a source of fluid under pressure whereby said strips may be expanded by internal fluid pressure to make substantially air tight seals with said blades, said box-like strips having edge portions each fixed to a rigid portion of a partition and the frame, the cross-section of the strips being such that pressure therein will create stress in tension in the strips.

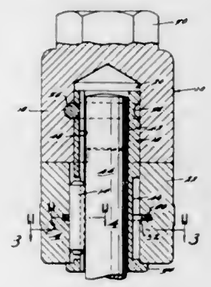
2,613,941
CHUCKING MEANS
George O. Gridley, Berlin, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application September 17, 1948, Serial No. 49,707
4 Claims. (Cl. 279—60)

1. In chucking means of the character indicated, a generally cylindrical collet having a work-receiving bore and with an edge at the forward end of said bore, a plurality of generally cylindrical jaws generally radially slidingly supported in corresponding generally radial bores in said collet, each of said generally radial bores being on an axis in a plane passing generally through the axis of the work to be supported by said chucking means and inclined backward from the front end of said collet, the geometrical pro-



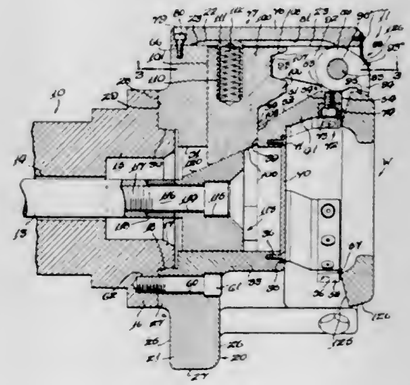
jections of said inclined bores passing through the general plane of said edge wholly within the perimeter of said edge, whereby each said jaw may freely slide generally radially and forwardly wholly through the central opening defined by said edge and out the forward end of said collet.

2,613,942
STUD DRIVER
Enos P. Saunders, Berkley, Mich.
Application August 12, 1947, Serial No. 768,115
7 Claims. (Cl. 279—72)



3. A chuck comprising an operating member having a central cavity extending axially thereof and including inwardly presenting cam means, a cage having a bore therein adapted to receive a part to be chucked, said cage having an annular wall portion of substantially reduced thickness, said cage also having a plurality of axially extending grooves formed therein of a depth at least equal to and coextensive with the thickness of said annular wall portion whereby a plurality of slots opening radially through said cage are provided in said annular wall portion, the side walls of said grooves being disposed in substantially parallel planes, a plurality of roller elements individual to said slots and proportioned to permit said rollers to project through said slots and into said bore to engage a part to be chucked but to prevent said rollers from falling through said slots into said bore, said cam means being effective upon rotation of said operating member relative to said cage to engage said roller elements and urge them radially inwardly to chuck said part.

2 613,943
CHUCKING DEVICE FOR LATHES
Max O. Trudeau, Jackson Heights, N. Y., assignor to Morey Machinery Co., Inc., Astoria, L. I., N. Y., a corporation of New York
Application July 20, 1950, Serial No. 174,858
12 Claims. (Cl. 279—106)

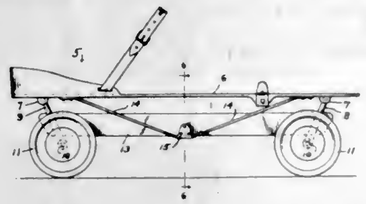


8. A chucking device compising a chuck body, means to attach the chuck body to the nose of a lathe spindle, said chuck body being formed with a plurality of radial slots and with a pair of spaced forwardly extending arms on opposite sides of each slot, each pair of arms being formed with aligned openings, a pivot pin passing through said aligned openings and interconnecting said arms, a lever pivoted to each pivot pin and disposed between said pair of arms, a cam member slidably mounted within each radial slot, means on each cam and lever to cause the lever to be rotated about its pivot pin upon moving said cam radially outwardly, means on said levers to exert pressure on an annular work piece in directions inclined rearwardly and towards the axis of the chuck body, upon being rotated by outward movement of said radial members, and means at the center of the chuck body to move said radial members outwardly, a cover plate attached to each pair of arms and covering one of the slots and overlying the radial member therein, and the lever on the pivot pin supported by said pair of arms, spring means interposed between each radial member and the cam member associated therewith for urging the radial member toward the axis of the chuck body, and a wiping plate attached to each cover member and having wiping engagement with the lever associated therewith.

2,613,944
STEERING MEANS FOR MOBILE CONVEYANCES
Paul H. Gerrits, Appleton, Wis.
Application April 5, 1948, Serial No. 19,074
4 Claims. (Cl. 280—11.19)

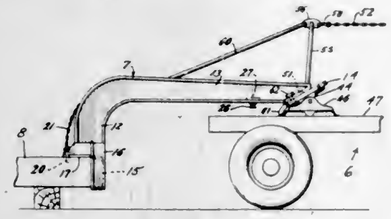
1. The combination with a mobile conveyance having main steering elements swivelly connected to the lower side of the conveyance and directed inwardly from their swivelled ends and disposed in longitudinal alignment, a resilient steering bar connected in the region of its ends to the main steering elements, U-shaped brace rods rigidly connected to the conveyance at points above and outwardly of opposite sides of the

resilient steering bar, and means rigidly securing the yoke ends of the U-shaped brace rods to the



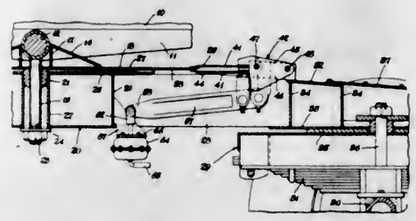
resilient steering bar at a point between the main steering elements of the conveyance.

2,613,945
COUPLING FOR TRACTOR AND SEMITRAILER UNITS
Austin G. Talbert, Lyons, Ill.
Application March 15, 1950, Serial No. 149,748
7 Claims. (Cl. 280—33.05)



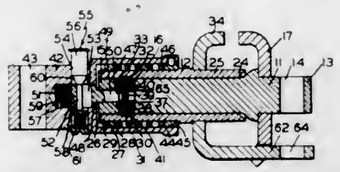
1. In a generally gooseneck-shaped drawbar unit for combination with (1) a tractor provided with a fifth-wheel plate which is rearwardly tiltable about an axis extending crosswise of the tractor, said fifth-wheel plate having at least one series of holes therein extending parallel to the length of said tractor, and (2) a low-bed heavy duty trailer having only rear support wheels, wherein said gooseneck-shaped drawbar unit comprises, a rigid frame structure having a forwardly extending portion for detachable pivotal connection with said tractor and a downwardly extending rear portion for detachable rigid connection with the front end of said trailer, connecting means on the lower end of said rear portion cooperative with connecting means on the front end of said trailer for rigidly connecting said rear portion with said trailer in detachable rigid relationship, and pivot connecting means on the underside of said forwardly extending portion cooperative with pivot connecting means on said fifth-wheel plate to form a releasable pivotal connection between said forwardly extending portion and said fifth-wheel plate whereby said frame structure is turnable on said fifth-wheel plate generally in the plane thereof, the improvement comprising plate means at the front end of said forwardly extending portion providing an upwardly and forwardly inclined bearing surface for bearing engagement with said fifth-wheel plate when the latter is in a rearwardly tilted position, said bearing surface being located forwardly of said pivot connecting means on the underside of said forwardly extending portion whereby when said pivotal connection is released longitudinal displacement between said drawbar unit and said tractor brings said bearing surface into bearing engagement with said fifth-wheel plate and said plate means having at least one hole therein in which is longitudinally aligned with said series of holes in said fifth-wheel plate and is registrable with said holes one at a time when said bearing surface of the plate means is in engagement with said fifth-wheel plate.

2,613,946
BACKING CLAMP FOR TRAILERS
W. Carl Anderson and Sydney L. Dewey, Canton, Ohio, assignors to The Union Metal Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application March 23, 1951, Serial No. 217,254
4 Claims. (Cl. 280—33.05)



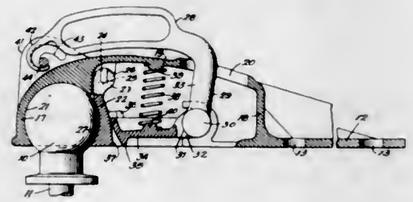
3. In a trailer having a fifth wheel plate and an undercarriage swiveled thereon, spaced extensions on said plate, means on the undercarriage for frictionally clamping said plate and including upper and lower jaws for engaging the outer surfaces of said extensions, a floating spacer shoe between said extensions for engaging the inner surfaces thereof, means rigidly mounting said upper jaw on said undercarriage, lever means on the undercarriage pivotally connected to said lower jaw, and power means of actuating said lever to clamp the jaws and shoe in superposed relation against the inner and outer surfaces of said extensions.

2,613,947
OVERLOAD RELEASE COUPLING
Edmund Jedrzykowski, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 6, 1949, Serial No. 131,403
13 Claims. (Cl. 280—33.16)



1. An overload release coupling device comprising a male member detachably connected to a female member, said male member having an insertable portion adapted to be embraced by said female member; latch means carried by said insertable portion, said latch means including a plurality of radially projecting spring-pressed plungers adapted to protrude from said insertable portion to a latched position and to be retracted within said insertable portion to an unlatched position; a latch shoulder carried by said female member and engageable by said latch means when said male and female members are assembled in longitudinal alignment and said latch means is in said latched position, said latch shoulder being a wall of a substantially channel-shaped internal annular recess; latch controlling means cooperable with said male and female members movable longitudinally relatively to said male and female members from a first position wherein said latch means is prevented from moving to said unlatched position to a second position wherein said latch means is allowed to assume said unlatched position, said latch controlling means including a relatively slidable member having a hollow portion adapted to embrace said female member and plunger stop means adapted to abut a portion of each of said plungers when said latch controlling means is in said first position, said plunger stop means including a spring-pressed longitudinally disposed pin adapted to project into said male member; yieldable means for urging said latch controlling means to said first position, said yieldable means being overcome upon a direct longitudinal pull of a predetermined amount; and means for moving said plunger stop means to said second position independently of any relative movement of said relatively slidable member.

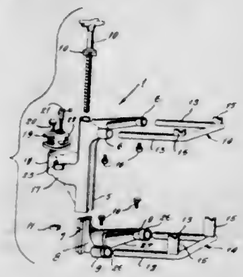
2,613,948
VEHICLE COUPLING
John O. Klein, Lufkin, Tex., assignor to Texas Foundries, Inc., Lufkin, Tex., a corporation of Texas
Application July 7, 1950, Serial No. 172,450
7 Claims. (Cl. 280—33.17)



3. A coupling member for establishing a driving relation between one vehicle and another having a ball member comprising a housing, a backing plate mounted for pendulant movement within the housing between a coupling position forming a ball socket in co-operation with a portion of the housing and uncoupling position wherein the mouth of the socket is enlarged to permit movement of the ball member into and out of the socket area, a bell crank pivoted on its fulcrum within the housing, a curvilinear flange on one arm of the bell crank having its center located forwardly and above the pivot point of the bell crank and above a line drawn from the pivot to the center of the socket area, hooked flanges having inturned ends spaced a short distance from the back of the backing plates to provide space grooves in which the curvilinear flanges operate to effect pendulant movement of the backing plate responsive to rocking movement of the bell crank about a pivot and a handle rigid with the other arm of the bell crank.

2,613,949
BUMPER HITCH
Arthur N. Milster, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a a corporation of Delaware
Application February 19, 1949, Serial No. 77,381
9 Claims. (Cl. 280—33.44)

7. A trailer coupling comprising a body having spaced apertured projections adapted to be positioned above an automobile bumper; a member slidably mounted on said body and provided with apertured projections adapted to be positioned below the bumper; a U-shaped member having legs that extend through said projections on said body; a U-shaped member having legs that extend through the projections on said member; means for adjustably mounting said legs in said projections; means on each of said U-shaped members for preventing said members from slipping off said bumper; an adjusting screw for



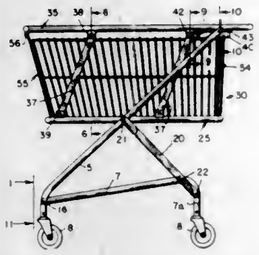
moving said body relative to said member for clamping said U-shaped members to said bumper which comprises a screw in said body and a nut on said member; and aligning means mountable on one of said U members and disposed adjacent to said bumper and the jaw member in which the last mentioned U member is mounted for enabling the adjusting screw to remain vertical when the coupling is applied to a bumper whose plane is inclined to the vertical.

2,613,950
FOLDING WHEELED CARRIER FOR SUITCASES
Eleanor P. Bartlett, Dover-Foxcroft, Maine
Application August 6, 1948, Serial No. 42,921
7 Claims. (Cl. 280—35)



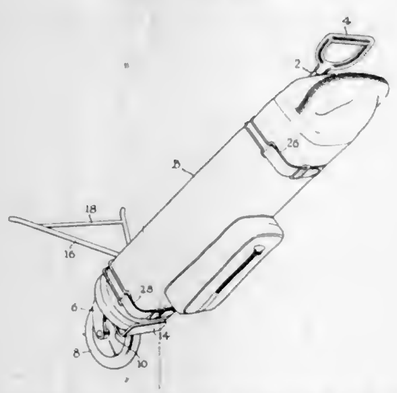
1. A suitcase attachment, said attachment comprising a wheeled frame removably secured to said suitcase, said wheeled frame including inner and outer sections slidably connected together, an end section hinged to each of said inner and outer sections, a pressure member carried by each of said end sections, means urging said inner and outer sections inwardly toward each other for clamping said pressure members against the sides of a suitcase, means for anchoring said inner section to a suitcase, stub axles carried by said end sections below said pressure members, and wheels mounted on said stub axles, said inner and outer sections including lateral projections, and hinged pressure elements carried by said lateral projections.

2,613,951
FOLDING UTILITY CART
Paul Rusnak, Los Angeles, Calif.
Application July 10, 1950, Serial No. 172,947
14 Claims. (Cl. 280—36)



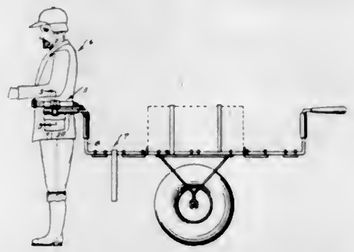
1. A utility cart comprising mobile side frame members, a substantially horizontal floor pivotally secured intermediate its ends to the side frame members, a substantially horizontal top frame swingably supported above and from the floor to swing relative thereto, means slideably connecting the upper end portions of the side frame members to the top frame including a guideway carried by and disposed parallel with said top frame members and a cross bar carried by said side frame members for sliding movement along said slideway, and side and end walls swingably suspended from the top frame.

2,613,952
GOLF BAG CARRIER
James P. Lannon, Chevy Chase, Md.
Application January 7, 1949, Serial No. 69,745
1 Claim. (Cl. 280—58)



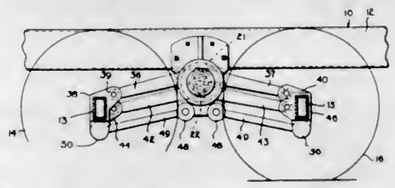
A carrier for a golf bag comprising a longitudinally extending support, a laterally extending forked bracket secured at the lower end of said support, a single wheel journaled in said bracket, a shelf for the lower end of a golf bag, carried near the lower end of said support and extending in the same general direction as said bracket, for thereby positioning said shelf over said wheel, a pair of straps carried by the upper and lower parts of said support for encircling a golf bag and detachably securing the golf bag to the support with its lower end on said shelf, a carrying handle at the upper end of said support, whereby the golf bag is suspended in an inclined position below the support with the center of gravity of the golf bag below the support when the carrier is tilted forwardly and is rolled along on its single wheel, a pair of diverging ground engaging legs, carried near the lower end of said support and extending downwardly and outwardly from said support, and on the opposite side of said support with respect to said golf bag supporting shelf, said legs cooperating with said single wheel for providing a three point support for positioning the carrier in a substantially vertical position, said ground engaging legs being normally rigidly secured to the support, whereby when the carrier is tilted forwardly to the rolling position, said legs are lifted away from engagement with the ground, and engage the ground automatically when the carrier is tilted backwardly to the stationary position.

2,613,953
MONOWHEEL VEHICLE HARNESS
Cash E. Giovannoni, Boulder City, Nev.
Application December 6, 1949, Serial No. 131,275
3 Claims. (Cl. 280—58)



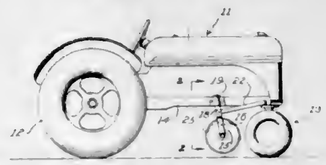
2. The combination with a mono-wheel vehicle having a pair of laterally spaced handle bars including upright portions and forwardly directed portions and a brace bar extending between said upright portions, of a harness comprising a waist belt having holsters on opposite sides thereof having hip pads on their inward sides and loops on their outward sides through which said forwardly projecting handle bar portions extend, a harness strap extending between and having opposite end portions engaged around said upright handle bar portions and around said brace bar, and means connecting an intermediate part of said waist belt to an intermediate portion of said harness strap, buckles on said harness strap for adjustably securing the said opposite ends thereof to determine the slack in said harness strap.

2,613,954
TORSION-TYPE AXLE SUSPENSION FOR TANDEM AXLE VEHICLES
Frank W. Avila, Columbia City, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application August 30, 1947, Serial No. 771,435
8 Claims. (Cl. 280—104.5)



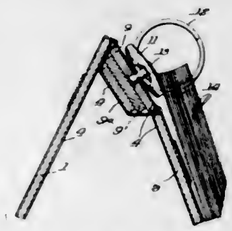
1. For a vehicle having a longitudinal main frame and first and second transverse axles spaced longitudinally of the frame: an axle suspension system, comprising a first torsion member extending across the frame and having right and left-hand connecting arms respectively at opposite sides of the frame connected to the first and second axles; a second torsion member extending across the frame and having right and left-hand connecting arms respectively at opposite sides of the frame connected to the second and first axles; and means for supporting said members including, a pair of transversely spaced supports rigidly connected to the frame with each support including an outer bearing portion and a transversely spaced inner bearing portion rigidly formed therewith into which opposite end portions of the torsion members are received and journaled.

2,613,955
AUXILIARY WHEEL FOR TRACTORS
Francis White, Littlefork, Minn.
Application July 18, 1950, Serial No. 174,460
1 Claim. (Cl. 280—150)



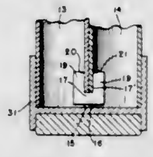
In a tractor, a depending yoke member, a pair of upstanding bar elements carried by the respective side portions of said yoke member, respective channeled brackets secured to the sides of the tractor frame and slidably receiving said bar elements, a relatively wide drum-like convex auxiliary wheel journaled between the ends of the depending arms of said yoke member, said auxiliary wheel extending transverse to the tractor adjacent said front wheels, the bottom of said auxiliary wheel being located above the ground engaging surfaces of said front wheels, the portions of said bar elements in said brackets being formed with slots extending parallel to the brackets, and respective bolts extending through said slots and secured to the tractor frame.

2,613,956
COMBINED BINDER AND DISPLAY EASEL
Elmer W. Ericson, Chicago, Ill.
Application October 6, 1950, Serial No. 188,720
2 Claims. (Cl. 281—33)



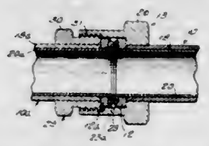
1. A combined binder and easel, comprising stiff relatively opposed and spaced cover panels, sheet-like material disposed over and covering said panels and spanning the space therebetween forming a spine receiving and retaining flexible means, a stiff spine member snugly in and longitudinally of said receiving and retaining means being of a width less than that of the sheet-like material spanning the space between the stiff cover panels and spaced from said panels, the opposite sides of the spine member being beveled, relatively converging and individually abuttingly engageable with adjacent portions of said panels, at times, the opposite faces of the spine member being flat throughout their entire areas, binder means disposed longitudinally of the normally inner and wider face of the spine member over the adjacent spanning portion of said sheet-like material, means connecting the binder means to said spine member through said adjacent spanning portion of the sheet-like material, said connecting means being covered by the remaining spanning portion of said sheet-like material, and an extension hinged to the free side of one of the panels detachably connectible to the free side of the remaining panel whereby to, at times, retain the same in spaced relation.

2,613,957
CONNECTING MEANS FOR PARALLEL TUBES
Emil C. Ritter, New York, N. Y., assignor to The R. G. D. Corporation, New York, N. Y., a corporation
Application January 29, 1952, Serial No. 268,767
2 Claims. (Cl. 285—21)



1. A supporting leg structure for articles of furniture comprising tubular members having confronting side wall portions disposed in contacting engagement with the other and formed with longitudinal slots opposite each other, said slots extending inwardly from the outer ends of said tubular members, and a substantially U-shaped binder formed of stiff metal having its bridge portion passing through the slots and fitting in tight engagement with the walls of the slots, the arms of said U-shaped binder extending longitudinally in the tubular members beyond the inner ends of the slots, the space between the arms of the U-shaped binder being slightly less than the combined thickness of the contacting wall portions of the tubular members whereby the arms tightly grip said wall portions when the binder is applied, the slots in the tubular members having a depth at least equal to the depth of the bridge portion of the U-shaped binder.

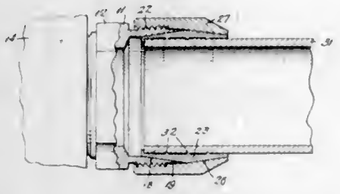
2,613,958
COUPLING FOR DOUBLE-WALLED PIPES
James C. Richardson, Waterbury, Conn., assignor to The Brockway Company, Naugatuck, Conn., a corporation of Connecticut
Application March 5, 1947, Serial No. 732,485
4 Claims. (Cl. 285—120)



1. In a coupling for threadless pipe, a length of double-walled threadless pipe, having a portion of its lining projecting beyond the end of its sheath, an abutment on the end of said sheath, a double-walled radially extending upset flange on

said projecting portion of the lining, a rigid ring of greater diameter than said sheath embracing the projecting end of said lining having a shallow annular cavity on its front surface, receding gradually adjacent the inner circumference of the ring and having a peripheral rim for confining the material of the flange when compressed against said surface, said ring being clamped between said flange and said abutment.

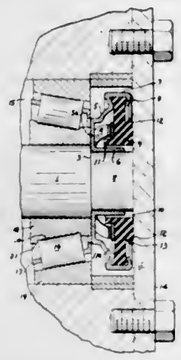
2,613,959
COUPLING FOR THREADLESS PIPES
James C. Richardson, Waterbury, Conn., assignor to The Brockway Company, Naugatuck, Conn., a corporation of Connecticut
Application December 3, 1948, Serial No. 63,320
2 Claims. (Cl. 285—122)



1. A vibration resistant pipe coupling for use in connecting pipe to a fitting member or the like, comprising a concave conical sealing surface formed on said fitting member so as to provide an extended tapered body portion terminating in an annular radially flexible skirt, a compressible ferrule slidable relatively to said pipe having a convex tapered surface at each end and a bore provided with a pipe encircling ridge, one of said tapered end surfaces engaging the conical sealing surface on said fitting member, a coupling nut threaded to said fitting member surrounding said ferrule and having a tapered bore shaped to engage the other tapered surface on said ferrule, a portion of said bore forming a skirt-engaging surface tapered at an angle to the nut axis less than the balance of said bore for engagement with the outer surface of said resilient skirt whereby when said fitting member and nut are threaded together one tapered surface on said ferrule is pressed into leak-tight engagement with the conical sealing surface on said fitting member and said ferrule is compressed radially to force said ridge to penetrate the pipe surface and form a leak-tight engagement therewith, and the bore of said nut engages said skirt so as to frictionally lock said nut against loosening by vibration.

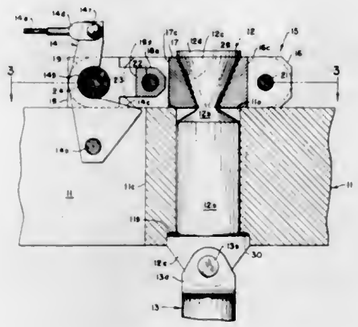
2,613,960
OIL SEAL
Thomas Edward Nelson, Pontiac, Mich.
Application December 1, 1949, Serial No. 130,484
1 Claim. (Cl. 286—11)

An oil seal for use in conjunction with a shaft rotatably supported within a housing having an end wall extending in a plane transverse to the axis of said shaft, comprising a ring-like retainer having an axially elongated annular hub secured on the shaft and a peripheral portion defining an annular recess opening radially inward with the throat thereof of reduced width, a resilient sealing element of ring-like form peripherally secured within said retainer recess arranged at right angles to the shaft axis and centrally apertured to surround said hub in spaced relation for longitudinal flexing movement independently thereof, said sealing element having an axially directed central annular flange on one side thereof with its outer surface portions normally inclined outwardly towards its periphery, said flange being annularly undercut at its maximum diameter at said sealing element to facilitate flexing of the outer inclined surface of said



flange for surface registry with said end wall and an inwardly directed central annular flange upon its other side adjacent its aperture, a washer upon said latter flange, and a wave spring positioned between and oppositely engaging against said retainer and said washer for maintaining the flange on said one side in wiping surface contact with the end wall of said housing.

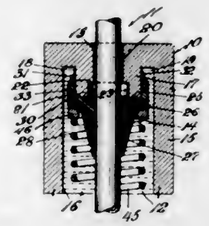
2,613,961
QUICK DISCONNECT HOLDING MEANS
John E. Wescott, Hagerstown, Md., assignor to Fairchild Engine and Airplane Corporation, a corporation of Maryland
Application March 31, 1950, Serial No. 153,047
12 Claims. (Cl. 287—20.5)



12. Holding and release mechanism comprising a fixed member having a bore and a headed removable member, said removable member having a tapered portion extending through said fixed member bore beyond a bearing face of said fixed member and tapered toward said bearing face in the holding position of said mechanism, first and second grip elements having opposed gripping portions tapering away from said fixed member face and arranged to engage the tapered gripping portion of said removable member to prevent its withdrawal toward said fixed member

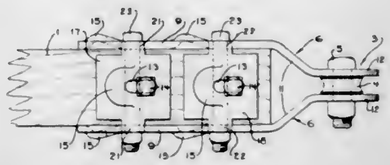
face, a toggle element pivotally mounted upon said second grip element, a link element pivotally connected to said toggle element and to said first grip element arranged to prevent separation of said first grip element with respect to said pivotally interconnected second grip element and with respect to said toggle element, the three said pivotal interconnections between said first grip element and said link element, between said second grip element and said toggle element and between said toggle element and said link element being arranged on parallel axes lying in the same general plane to provide a toggle grip upon said tapered gripping portion of said removable member, and trip means including a pivotally mounted lever element having a detent portion arranged to maintain the pivotally interconnected portions of said toggle and link elements in alignment with the other said pivotal interconnections in the holding position of said mechanism, said lever element having a cam portion arranged upon rotation of said pivotally mounted lever element to cause the pivotally interconnected portions of said toggle and link elements to be displaced away from the face of said fixed member to thereby break said toggle effect and permit release of said gripping portion of said removable member.

2,613,962
SHAFT SEAL
George W. Dahl, Barrington, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass., a corporation of the United States
Application April 19, 1948, Serial No. 21,811
3 Claims. (Cl. 286—26)



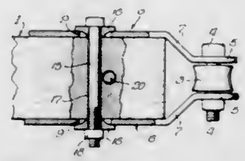
1. A seal assembly comprising a body member recessed to provide a fluid chamber, fluid therein, a shaft-like member extending through said body member and chamber and movable relative thereto, said body member having a boss projecting from the surrounding surface about said shaft member into the chamber to present an outwardly facing surface surrounding the surface presented by said shaft member and radially spaced outwardly therefrom of a size to be spaced from the outer walls of said chamber, an annular sealing member having portions of its inner surface of different diameters with a radially extending abutment between said portions, the smaller of said portions receiving said shaft member and the larger of said portions receiving the boss of said body member, the outer surface of the sealing member being spaced from the inner wall of the chamber, said surfaces being exposed to the fluid in the chamber to be sealed and presenting a wall between the inner and outer surfaces of such a thickness and such material that it will be moved radially inwardly against said shaft and body members under the pressure to which it is subjected.

2,613,963
WOOD CLAMP
Andrew A. Hocher, Glenshaw, Pa., assignor to Hubbard & Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 11, 1949, Serial No. 81,005
21 Claims. (Cl. 287—1)



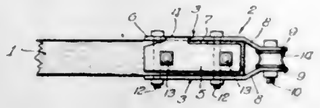
1. A self-energizing clamp for clamping a bar of wood comprising a pair of clamp members for engaging the bar between them and having hitch portions for connection of the load thereto, the clamp members having registering bolt openings and being adapted to have limited longitudinal motion endwise of the bar, a bolt adapted to be seated fixedly in the bar, and to extend through the bolt openings in the clamp members, said bolt having a pair of head members, said clamp members and said head members having engaging surfaces, said bolt openings in the clamp members extending longitudinally of the bar a distance substantially in excess of the diameter of the bolt to permit movement of the clamp members relative to the bolt longitudinally of the bar, the engaging surfaces on one of said pair of members being inclined inwardly in the direction in which the clamp is adapted to be moved by application of the load whereby longitudinal movement of the clamp members relative to the bolt by application of the load forces the clamp members towards each other.

2,613,964
CLAMP
Andrew A. Hocher, Glenshaw, Pa., assignor to Hubbard & Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 25, 1949, Serial No. 101,438
10 Claims. (Cl. 287—1)



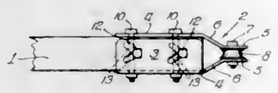
. A self-energizing clamp for clamping a bar of wood comprising a pair of clamp members having bar engaging faces for engaging opposite sides of a bar to be gripped, said members having registering transverse openings therethrough, a through bolt adapted to be seated fixedly transversely in the bar and having its ends extending through said openings, said openings being substantially larger than the cross section of the bolt, heads on the outer ends of said bolt, and wedge members mounted on the bolt one under each head, each of said wedge members being inclined inwardly relative to the corresponding bolt head in the direction in which the corresponding clamp member is urged by the applied load, said wedge members projecting into said openings.

2,613,965
CLAMP
Andrew A. Hocher, Glenshaw, Pa., assignor to Hubbard & Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 25, 1949, Serial No. 101,439
11 Claims. (Cl. 287—1)



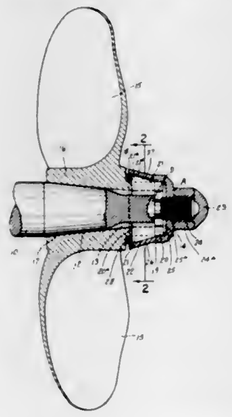
1. In a device of the class described for attaching a load to a wood bar, the combination of a pair of angle fittings, each angle fitting comprising two plates disposed at substantially right angles to each other and being integrally joined together at their edges by a short relatively flexible joining portion of substantially less length than their adjacent edges said short joining portion between the two plates being spaced from the front end of the shorter plate, said joining portions being adapted to act as hinges, one of the plates of each angle fitting being of greater length than the other, and being offset toward the longitudinal axis of the wood bar to be clamped and ending at its front end in a lug, bolts extending through the shorter plates to clamp them upon opposed sides of the wood bar, the longer plates being adapted to be disposed on opposite sides of the bar to be clamped, and having their lugs extending beyond the adjacent front end of the bar to be clamped and brought into register, a pin extending through said lugs to form a hitch for a tension load, bolts extending through said longer plates to clamp said plates upon opposite sides of the bar, said longer plates being free at their front ends to be pulled toward each other upon the end of the wood bar by application of the load, without interference from the shorter plates.

2,613,966
CLAMP
Andrew A. Hocher, Glenshaw, Pa., assignor to Hubbard & Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 25, 1949, Serial No. 101,440
9 Claims. (Cl. 287—20.3)



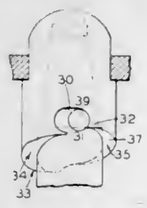
1. In a device of the class described, the combination of two angle shaped clamp members adapted to be disposed upon a rectangular wood bar with their legs in the form of plates disposed in contact with two adjacent sides of said bar, each member having a forwardly extending ear, means for connecting said ears to constitute a hitch, bolts adapted to be seated in holes in the bar and extending through the plates and having heads for clamping the plates upon the wood bar said members having registering bolt holes allowing longitudinal motion of the members relative to the bolts, said bolts and members having cooperating wedging surfaces, including in each case a surface at an angle to the line of force applied by the hitch for providing a self-energizing grip upon the face of the bar when the members move relative to the bolts.

2,613,967
OUTBOARD MOUNTING STRUCTURE
Fredrick W. Coffing, Danville, Ill., assignor to Coffing Hoist Company, Danville, Ill., a corporation
Application March 18, 1949, Serial No. 82,180
5 Claims. (Cl. 287—53)



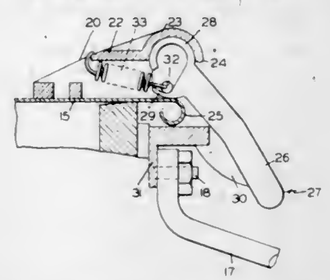
1. An outboard type mounting structure having a shaft member and another member with a hub disposed thereon, the two members having limited relative axial movement for initial mounting, in combination, a shaft extension on said shaft member having longitudinally extending keyways formed therein and a threaded extension beyond said keyways, the hub member having an extension provided with slots coinciding with said keyways, keys extending through said slots and bottomed in said keyways and having rearwardly tapering top edges, and a threaded nut having a frusto-conical skirt threaded upon said threaded extension with the skirt wedgingly engaging the tapering edges of the keys to effect a wedging engagement of the keys between the bottom of the keyways and the frusto-conical skirt.

2,613,968
DRIVE COUPLING FOR CENTRIFUGAL SEPARATORS
William H. Harstick, Oak Park, and Otto E. Hintz, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application July 13, 1949, Serial No. 104,486
1 Claim. (Cl. 287—103)



A drive coupling for a centrifugal separator, said coupling comprising a connecting member having a tapered bore extending in an axial direction and being open at its lower end, an annular portion formed at the lower end of said connecting member, said annular portion including a pair of opposed irregular cam surfaces extending in spirally shaped relation, said connecting member having an elongated transversely extending slot formed adjacent upwardly sloping ends of the cam surfaces, first and second laterally spaced hook portions formed at opposite ends of said slot in said connecting member, drive means for engaging said connecting member in driving relation, said drive means including a spindle having a tapered portion engaging the tapered bore of the connecting member in mating relation, a drive pin projecting laterally outwardly from the spindle, said first hook portion having its end positioned axially below the end of said second hook portion, the ends of said hook portions when measured in a horizontal plane defining a vertical space of lesser dimension than the diameter of said pin, the distance between said ends of said hook portions when measured in a straight line connecting the ends of the hook portion being greater than the diameter of said pin, said pin being engageable in driving relation with said slot, the hook portions being constructed and arranged to retain the pin in said slot against axial displacement during rotation of said spindle and connecting member.

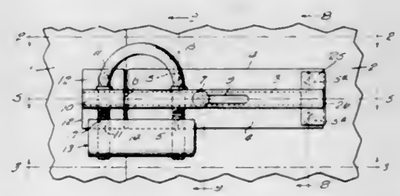
2,613,969
COVER FASTENER
David M. Morris, Richmond, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application November 3, 1949, Serial No. 125,330
3 Claims. (Cl. 292—128)



1. A latch mechanism for the lid of a fertilizer hopper or the like and adapted for use with a strike to secure the lid to the hopper body, comprising a housing mounted on the lid having a semi-cylindrical socket portion spaced from the lid, a latch member having an elongated body, a head having a semi-cylindrical portion receivable in and mating with said socket portion for rotation therein and an arcuate lip portion circumferentially spaced from and on a longer radius than the semi-cylindrical portion and engaging the lid to retain the semi-cylindrical portion in its socket, and a spring attached to the housing and to said lip portion for urging the latch member to a position with said lip in engagement with the hopper lid and cooperating with said lip portion to retain the head in said socket.

2,613,970
FASTENING DEVICE
Neil O. Holmsten, New Rochelle, N. Y.
Application April 23, 1949, Serial No. 89,182
2 Claims. (Cl. 292—148)

1. In a latching mechanism for securing a movable member against movement with respect to a stationary member, a combination of a guide having upper and lower flanges secured to one of said members by attaching screws, a latching bolt slidably supported by said guide, a keeper having upper and lower flanges secured to the other of said members by attaching screws, means for moving said latching bolt into and out of engagement with said keeper, apertures in said guide in vertical alignment with said attaching screws, an aperture in said keeper in vertical alignment with its attaching screws, a pair of spaced apertures in said latching bolt adapted to align respectively with the apertures in said guide and in said keeper when said latching bolt is in



latching position, and restraining means operative to prevent movement of said latching bolt when said latching bolt is in latching position, said restraining means including a shackle having legs extending vertically through said aligned apertures and adapted to cover and prevent access to said attaching screws and a member engaging the free ends of said legs below said bolt and adapted to be locked thereto to prevent withdrawal of said shackle from said bolt.

2,613,971
DOOR LATCH
Chester O. Goserud, St. Paul, Minn.
Application May 23, 1946, Serial No. 671,848
11 Claims. (Cl. 292—226)

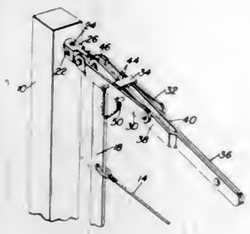


10. In a door latch, a housing, a lever pivoted to said housing and having a portion extending through said housing, said housing having a part adjacent the portion of said lever extending through the housing, an arm pivoted to said lever and extending through said housing and into said housing in proximity to said part, a latch lug pivoted to said arm within said housing and normally projecting through said housing, and an operating member on the outer portion of said arm disposed laterally from the pivot of said arm and adapted to engage said part and operating through engagement therewith as a cam upon swinging of said lever to swing said arm and retract the latch lug.

2,618,972
DEVICE FOR OPERATION OF FARM GATES
Maurice E. Gifford, Berryville, Ark., assignor to Covert Electric Machinery Company, Joplin, Mo.
Application June 6, 1950, Serial No. 166,308
2 Claims. (Cl. 292—247)

1. A fastener for flexible gates of the type including a plurality of flexible strands and a

bar on one end thereof, comprising a screw eye mounted on a post, a connector mounted for horizontal swinging movement on said screw eye, a pair of spaced links pivotally mounted on said connector, a bifurcated lever pivotally mounted, at an intermediate point, between the free end portions of said links and including a handle on

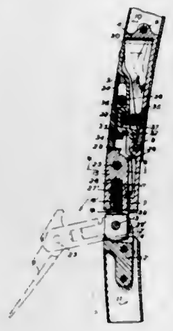


one end, said lever being adapted to straddle the gate bar, said bar having a notch in one end portion, a pin extending between the furcations of the lever and engageable in the notch for operatively connecting the lever to the gate, and means for securing said lever in operative position.

2,613,973
REFRIGERATOR DOOR LOCKING AND OPENING MECHANISM
Paul H. Brinkoeter, San Antonio, Tex., assignor to Ed. Friedrich, Inc., San Antonio, Tex., a corporation of Texas
Application May 23, 1949, Serial No. 94,848
1 Claim. (Cl. 292—255)

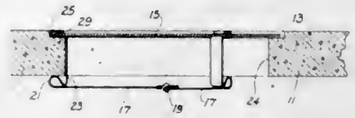
In a refrigerator, comprising a door frame, and a door for said frame having an outer wall, a strike mounted on said door frame, a push rod mounted in said door frame and adapted to be projected through said strike, a catch pivoted at one end to said door and having at the other end thereof a hooked end, a guide pin pivotally connected to the pivotal end of said catch and extending toward said door outer wall, a spring encircling said pin and interposed between said door outer wall and said catch pivoted end, said spring normally urging said hooked end into engagement with said strike when said door is in closed position, and means for operating said push rod for projecting it against said hooked end of said catch to pivot said catch and disengage said hooked end from said strike and simultaneously compressing said spring against said door outer wall for urging said door to open position.

2,613,974
TOGGLE FASTENER
Thomas G. Llewhellin, Hillington, Glasgow, Scotland, assignor to K. A. C. Limited, Glasgow, Scotland, a British company
Application June 1, 1949, Serial No. 96,512
In Great Britain October 8, 1948
10 Claims. (Cl. 292—256)



1. A toggle fastener comprising a primary part and a secondary part adapted to be mounted respectively on each of two relatively separable members, said primary part comprising a bracket and said secondary part comprising a recessed housing; a two-part link pivoted at one end to said bracket, the parts of said link being axially adjustable to vary the length of the link; an actuating lever, pivoted between its ends to the free end of said link, and comprising a bifurcated end part embracing said free end of the link, and a finger piece at the end thereof remote from said bifurcated end part; an arcuate fulcrum member within and at each side of said housing adapted to be engaged by said bifurcated end part of the actuating lever for partial rotation of the actuating lever therearound to bring the latter into a locking position wherein its front surface lies flush with the front surface of said secondary part and closes part of the recess in said housing, and wherein the pivot of said link with the actuating lever is positioned to the rear of the plane containing the centres of curvature of the said fulcrum members and the pivot of the link with said bracket; a latch lever pivoted to said secondary part within the recess of said housing; a finger piece on said latch lever closing that part of the recess in said housing not closed by the said actuating lever in the said locking position thereof; locking means on said latch lever adapted to engage said actuating lever when in its said locking position; a spring positioned in said housing and cooperating with said latch lever to urge said locking means thereon into its actuating lever-engaging position, depression of the finger piece of said latch lever into the recess of said housing and against the influence of said spring serving to disengage said locking means from said actuating lever and to give digital access to the finger piece of the latter; and a stop member within said housing positioned to engage the rear surface of said actuating lever to prevent the latter being moved into said recess in the said housing beyond its said locking position, and to engage said latch lever and to prevent the latter moving under the influence of said spring beyond the position thereof in which said locking means engage said actuating lever.

2,613,975
MANHOLE LID LOCKING MEANS
Harry A. Neal, La Grange, Ill.
Application April 22, 1949, Serial No. 89,110
12 Claims. (Cl. 292—288)



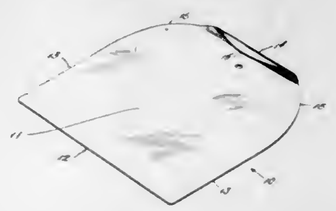
1. Means for locking a manhole lid on a manhole ring comprising a plural-arm skeleton frame below the lid inside of said manhole, each arm having an end portion interfittingly engaging over the edge of the lid and above and below the edges of the ring to prevent free removal of the lid when the lid-locking means is in its operative position.

2,613,976
BUMPER STRUCTURE
Andrew Ulmaniec, Minneapolis, Minn.
Application August 20, 1945, Serial No. 611,483
14 Claims. (Cl. 293—67)



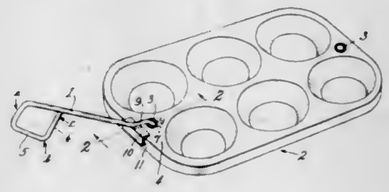
1. A bumper structure for an automotive vehicle having a body comprising a horizontally extending comparatively flat bar with its flat side disposed substantially in a vertical plane, a member secured to said bar and extending above and below the same, said member being of tubular form, a second member extending into the end of said member and secured therein, said second member being bent to extend substantially horizontally away from said bar at the said end of said first mentioned member in a direction away from the adjacent end of said body and having an enlarged and rounded portion at its end.

2,613,977
PIECRUST LIFTER
Henry Morgan Kellogg, Stratford, Conn.
Application May 25, 1946, Serial No. 672,299
3 Claims. (Cl. 294—1)



1. A pie crust lifter comprising a thin flat body of flexible resilient sheet material of substantially uniform thickness throughout having at its rear an upwardly curled edge located at the mid-portion and extending only part way of the full width of said body, the forward edge portion being the same thickness as the flat body portion and said curled edge serving as a holding means and stiffening the rear and mid-portion only of the lifter against transverse flexure so that said body and forward edge are transversely flexible and may be bent to a longitudinal concavely curved shape by manipulation with both hands engaging the rear edge portion of the lifter on opposite sides of said upwardly curled portion to form a trough for guiding a pie crust supported thereon to a pie plate.

2,613,978
DETACHABLE HANDLE FOR CUPCAKE PANS AND THE LIKE
Ernesto C. Marulli, Holyoke, Mass.
Application March 21, 1950, Serial No. 150,970
1 Claim. (Cl. 294—27)

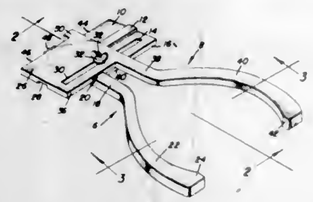


A detachable handle device for manipulating a cupcake pan and the like having a horizontal flange at the marginal edge of the pan and a vertically disposed circular eyelet opening in the flange spaced from the outer edge thereof, said device comprising an elongated shank of stiff round wire having at its outer end an integral extension of said wire bent reversely as a loop to provide a handle portion with the tip of said extension lying adjacent said shank and forming a pistol butt type of hand grip, said shank at its other end extending angularly and forwardly thereof in the plane of the handle grip and shank and providing an integral lever gripping portion for said device, said gripping portion at its outer end having a section thereof in parallel offset relation to said shank with a short upwardly curled tip end, a fulcrum bearing section of said gripping portion extending in forwardly and upwardly angled relation to said shank and joining the shank and offset parallel section and provided with a horizontally disposed angle iron having one side fixed to the underside transversely of said fulcrum bearing section adjacent said shank for a fulcrum bearing plate and the other side of the angle iron being rearwardly and vertically disposed in depending relation to said plate for nesting the vertical edge of a pan in the angle between said sides upon insertion of said curled tip end of the device through the eyelet opening to bear against the undersurface of said pan, said angle iron extending laterally at each side of said bearing section a substantial distance for maintaining said nested relation and the lateral stability of said pan when supported by said device.

2,613,979
PIEPAN LIFTING AND HANDLING IMPLEMENT
Donald R. Stillabower, Detour, Mich.
Application April 27, 1950, Serial No. 158,459
2 Claims. (Cl. 294—34)

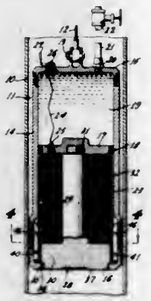
2. A pie pan lifting, carrying and handling implement comprising a unit embodying a substantially rectangular plate having a central longitudinal keying rib and provided with an elongated slot parallel to said rib, a shank formed

integral with and extending from one longitudinal edge of said plate, said shank being linearly straight, a longitudinally curved reach arm joined at its inward end to said shank, said reach arm terminating at its outward end in a laterally directed lug, a second unit comprising a plate superimposed on said first named plate and having a groove constituting a keyway, said rib fitting slidably into said keyway, said second plate being provided with a slot parallel to said groove and in registerable alignment with the first



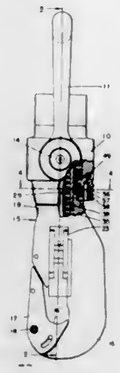
named slot, a shank formed integral with an edge portion of said second named plate and extending at right angles therefrom and said shank being linearly straight and in opposed parallelism with respect to said first named shank, and a second longitudinally curved reach arm opposed to said first named reach arm and joined at its inner end to said shank and provided at its outer end with a laterally directed lug opposed to said first-named lug, and bolt and nut means mounted in said slots.

2,613,980
FISHING TOOL
Kenneth C. Hawkins, Arcadia, Calif.
Application March 13, 1950, Serial No. 149,260
3 Claims. (Cl. 294—65.5)



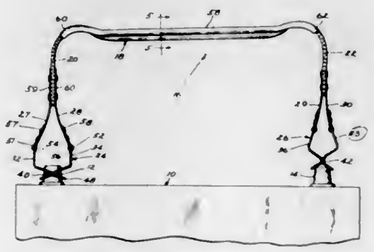
1. A fishing tool for retrieving magnetizable objects from well casings comprising a hollow container, a magnetic piston unit slidably fitting within said container forming a closed chamber therein, said magnetic piston unit having a withdrawn position within the container and an extended object-engaging position at the lower end of the container, a fluid connection from the chamber to the surface and a shut-off valve on the connection, a fluid in said chamber adapted to be admitted thereto through said connection, said fluid being operable upon opening of said shut-off valve when the container is in the well to effect movement of said magnetic piston unit to withdrawn position, retaining means on the container for said magnetizable objects, said retainer having an object-engaging position and means adapted automatically to move said retainer to said object-engaging position.

2,613,981
HOOK
Burt S. Minor, Whittier, Calif., assignor to Regan Forge and Engineering Company, San Pedro, Calif., a corporation of California
Application May 2, 1947, Serial No. 745,475
7 Claims. (Cl. 294—82)



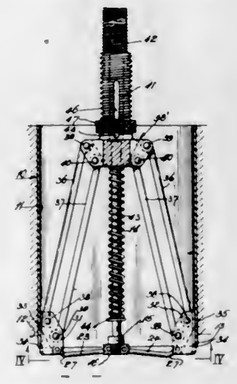
1. In a hook having a tubular swivel body and a hook member rotatably mounted in said body, interengaging means on said body and said hook member for limiting the hook member to a predetermined substantial partial rotative movement relative to said body, comprising means on said hook member forming two abutment shoulders spaced circumferentially a substantial distance and extending substantially radially thereof in the region of the body, and a latch element on said body opposite said shoulders mounted for movement into a position between said shoulders, said latch element occupying substantially less than the entire circumferential space between said shoulders when moved into position therebetween.

2,613,982
BATTERY LIFTER
Theodore R. Gottstein, Chicago, Ill.
Application December 22, 1947, Serial No. 793,077
17 Claims. (Cl. 294—92)



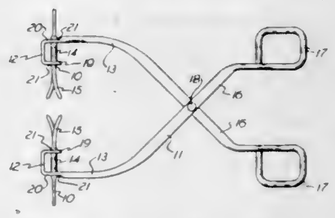
1. A device for use in gripping a stud-like member comprising a pair of cooperating inflexible gripping jaw elements, each of said elements having an opening formed therein to receive said stud-like member, said openings being in registration and said jaw elements being pivotally connected together to swing about a common diameter of said openings as an axis whereby the edges of both openings engage and grip said stud-like member when said elements are in cooperative relation, said elements extending laterally a substantial distance in opposite directions from said axis to provide arm extensions. and spring means operatively connected to said elements for biasing said arm extensions toward each other to effect gripping of said stud-like member by the edges of said openings.

2,613,983
SLEEVE PULLING DEVICE
Raymond G. Knudsen, Kenosha, Wis., assignor to Snap-On Tools Corporation, Kenosha, Wis., a corporation of Delaware
Application September 23, 1947, Serial No. 775,604
3 Claims. (Cl. 294—97)



3. A grapple comprising an elongated shank, a first yoke on said shank, a plurality of pairs of levers of equal length spaced around said yoke and individually pivoted to said yoke at one end, a jaw for each pair of levers, means pivoting the other end of each lever of a pair to its jaw so that said levers of a pair will be positioned in parallel relation and in a plane including the axis of said shank and extending radially thereof, a second yoke on said shank, links each pivoted to said second yoke and one of said jaws, spring means for urging one of said yokes in one direction along said shank to relatively collapse said jaws to their minimum spread, and threaded collar means on said shank for relatively moving said yokes against the urge of said spring means for moving said jaws away from said shank.

2,613,984
FRUIT HOLDER
Clifford H. Olson, Fargo, N. Dak.
Application July 8, 1949, Serial No. 103,701
1 Claim. (Cl. 294—118)



In a fruit holder, the combination with a tongs having a pair of legs pivotally connected to each other for movement in a plane, of a pair of grippin elements each constituted as a cylindrical shank, a set of circumferentially spaced tines larger than and disposed inwardly of said shank and a flat enlarged outer end portion disposed outwardly of said shank, a pair of U-shaped members constituted as interior portions of said tongs integrally connected to opposite legs thereof and extending inwardly therefrom, a pair of bearing members each constituted as a part of opposite parallel portions of each of said U-shaped members, said shanks being mounted in said bearing members to be freely rotatable therein and to have said tines in facing relation to each other.

2,613,985
VEHICLE BODY COWL CONSTRUCTION
Theodore Ulrich, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application September 6, 1949, Serial No. 114,123
5 Claims. (Cl. 296—28)

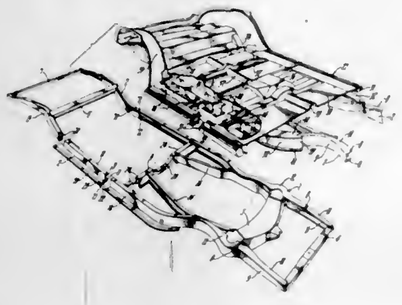


1. A body construction for an automotive vehicle comprising a panel member forming a partition wall between the interior of the vehicle and the engine compartment of the vehicle, said panel member extending from one side of the vehicle across to the opposite side, a section of said panel near the upper end thereof being inclined upwardly and inwardly toward the vehicle interior, and a further section of said panel continuing substantially vertically upwardly from the inclined section, a box-like member secured to the panel on the engine compartment side approximately centrally of the panel member with respect to opposite sides of the automotive vehicle, the overall length of said box-like member being less than one-half of the length of the panel member measured from opposite sides of the vehicle, and said box-like member having as part of its walls a portion of the inclined and the substantially vertical sections of the panel, a pair of supporting wings secured on opposite sides of the box-like member, each wing extending outwardly from the box-like member, a roof panel member bridging the wings and the box-like member, said wings having their lower longitudinal edges secured to the panel and their upper longitudinal edges secured to the roof panel member and serving as supporting walls for the roof panel member.

2,613,986
UNITARY BODY FRAME CONSTRUCTION
Russell G. Heyl, Jr., Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 26, 1950, Serial No. 176,010
10 Claims. (Cl. 296—28)

6. In a split-type box-section sill structure for an automotive vehicle, a chassis part and a body part, each of said parts having a vertical wall portion spaced inboard from the adjacent side of the body and two integrally associated horizontal leg portions extending inwardly and outwardly from the upper and lower margins respectively of said vertical wall portion, said body part leg

portions resting on and removably clamped to said chassis part leg portions, and said wall



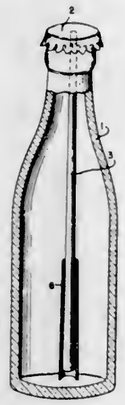
portions being spaced apart when the sill structure is assembled.

2,613,987
MEANS FOR RAISING AND LOWERING TOPS OF MOTOR VEHICLES
James R. Stanfield, Castle Bromwich, Birmingham, England, assignor to The Austin Motor Company Limited, Birmingham, England
Application May 31, 1949, Serial No. 96,259
In Great Britain June 16, 1948
3 Claims. (Cl. 296—117)



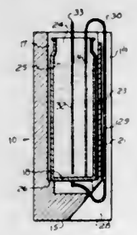
2. Vehicle top raising and lowering means and comprising at each side of the vehicle a main pillar pivoted at its lower end to a fixed part of the vehicle, a forwardly extending cant rail pivoted to the main pillar near its upper end and having a rearward extension beyond the pivot, said cant rail being in two parts interconnected by a knuckle joint adapted to break downwardly, operating means acting on the main pillar to move it rearwardly to lower the top and forwardly to raise the top, a control link connected to the rearward extension of the cant rail to effect the breaking of said knuckle joint during the lowering of the top and the making of said joint during the raising of said top and a lost-motion link pivotally connected to the lower end of said control link mounted to swing about a fixed pivotal axis and which occupies a substantially horizontal position when the top is erected said lost-motion link having abutments which determine the extent of relative angular movement of the control link and lost-motion link about their common pivotal connection.

2,613,988
BEVERAGE DISPENSING DEVICE
Charles F. Jarbeau, Dayton, Ohio, assignor of one-half to Franklin E. Shankle, Mad River Township, Ohio
Application May 8, 1950, Serial No. 160,629
2 Claims. (Cl. 299—17)



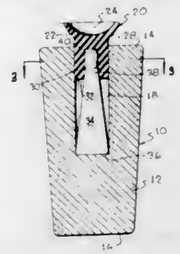
1. A sipper for beverages and other liquids or semi-solids, said sipper being formed of a plurality of telescoping tubular parts hermetically and slidably fitted together, one of said parts being constituted of material having a specific gravity no greater than that of the beverage and the other of said parts being constituted of material having a specific gravity no less than the specific gravity of the beverage.

2,613,989
SCENT DISSEMINATOR
Harold C. Smith, Minneapolis, Minn., assignor to H. V. Smith, St. Paul, Minn., doing business as H. V. Smith Company
Application January 22, 1948, Serial No. 3,672
3 Claims. (Cl. 299—20)



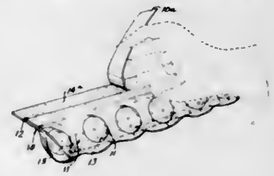
1. A scent disseminator, comprising a block of balsa wood having exterior walls which comprise an extended area of evaporation surfaces, an open-topped chamber in the block, an open-topped vial adapted to contain scent, said vial being removably mounted entirely within and below the upper end of said chamber, a wick extending through the liquid scent in said vial and out of the open top thereof and having a part extending downwardly alongside the block of balsa wood and being embedded in the wall of said block at a distance from the surface of said wall, and means for supporting the block upon a room wall, whereby capillary action will carry the liquid scent into the body of the block and the external surface of said body will provide evaporation of the scent.

2,613,990
DEODORIZER BLOCK AND HOLDER
John Lustek, Lorain, Ohio
Application July 5, 1950, Serial No. 172,110
5 Claims. (Cl. 299—24)



1. In combination with a molded deodorizer block having an axial opening formed in one end and a member housed in the opening and spaced at its outer end from the walls of the opening and the end wall of the block, a suction cup having a neck portion formed with an axially disposed socket frictionally fitted in the opening in the block and mounted on the outer end of the member.

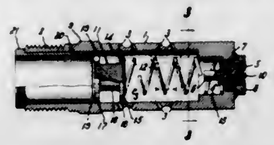
2,613,991
PACKAGING
John Schindler, Brooklyn, N. Y.
Application September 8, 1950, Serial No. 183,745
7 Claims. (Cl. 299—24)



1. In a package, an elongated non-metallic casing having a plurality of articles spaced apart from each other therein, adhesive means provided in certain areas of said package, at least one longitudinal edge of said package being bounded by co-extensive longitudinal areas cemented together with said adhesive means, other lateral co-extensive areas also cemented together with said adhesive means and extending between said articles toward said first areas and isolating said articles from each other, and perforations formed in the walls of said package placing said articles in communication with the atmosphere, said cemented lateral areas being of such width that they may be severed on a median line extending therethrough without releasing any of said articles.

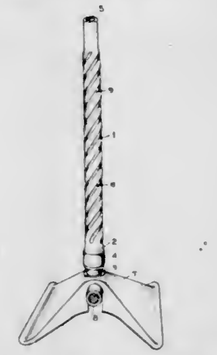
2,613,992
SELF-CLEANING SPRAY NOZZLE
Agnew H. Bahnson, Jr., Winston-Salem, N. C.
Application November 5, 1948, Serial No. 58,475
4 Claims. (Cl. 299—59)

1. A self-cleaning spray nozzle comprising a cylindrical barrel having a fluid inlet at one end thereof adapted to be connected to a source of fluid under pressure and a plurality of apertures spaced longitudinally along and extending outwardly through the barrel wall in a generally lateral direction, a piston slidable within said barrel having a diameter substantially equal to the internal diameter of said barrel so as to wipe across the inlet edges of said apertures, a helical loading spring in said barrel for said piston, one end of said spring being fixed and the other end thereof being engaged with one face of the piston and biasing the latter to a starting position at the fluid inlet end of said barrel, a removable sleeve disposed within said barrel at the fluid inlet end thereto, the end face of said sleeve within



said barrel constituting a stop for said piston and establishing the said starting position for the piston, the opposite face of said piston when in said starting position being subject to pressure from the fluid when admitted to said inlet, and causing said piston to be driven from its starting position along said barrel past said apertures and to compress said loading spring.

2,613,993
SPRINKLER
James Robert Holden, Medindie, South Australia, Australia
Application February 4, 1947, Serial No. 726,368
In Australia November 4, 1946
1 Claim. (Cl. 299—65)

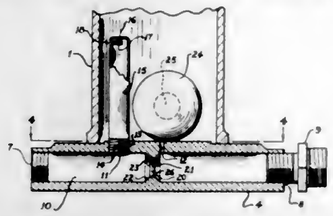


An improved sprinkler comprising an initially straight resilient tube having a central bore, supporting means at one end of said tube having a bore co-axial with said bore of the tube and opening into the latter, means to connect said supporting means with water conveying means so that water flowing through said bore of the supporting means is forced through said bore of the tube, said bore of the resilient tube terminating at the free end of the latter in a single passageway of reduced diameter and in coaxial alignment with the remainder of said bore of the tube, the wall of said tube having helical grooves formed therein to apply torque to said tube when water under pressure flows through said bore and passageway and is projected from the latter to give a reaction which bends the tube.

2,613,994
COMBINED SPRINKLER AND DISPENSER
Charles Phil Peters, Arlington, Tex.
Application April 26, 1950, Serial No. 158,283
10 Claims. (Cl. 299—84)

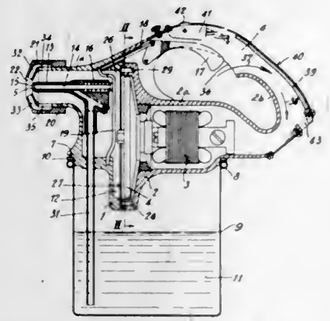
1. A dispenser for fertilizer, seeds, insecticides and other liquid and semi-liquid materials com-

prising a base, a passageway through said base, an inlet opening and outlet opening in said passageway, a distributor pipe attached to said base, a venturi in said pipe between said openings, a bell-shaped receptacle having a semi-spherical



undersurface adjacent to the top thereof, an opening through said surface, and an opening forming an exit from the space within said receptacle to said conduit, and a floatable ball valve in said receptacle adapted to seat on said surface.

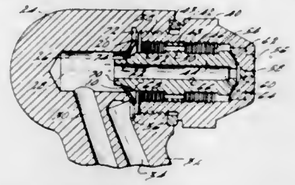
2,613,995
SPRAY GUN FOR PAINTS AND OTHER LIQUIDS
Charles Reinhold, Geneva, Switzerland
Application April 24, 1945, Serial No. 589,964
In Switzerland April 24, 1944
8 Claims. (Cl. 299—96)



1. A spray-gun for paints and other liquids, comprising an electric motor and fan unit; a housing enclosing said unit; a handle grip for said housing, the interior of which is curved and provides an air-inflow passage; and means within said air-inflow passage for filtering the air, said means comprising a lining disposed against that curved inner surface of said grip which serves to guide the inflow air through said passage, so that impurities contained by the inflow air are projected by centrifugal force against said lining, said lining being of a material adapted to retain said impurities.

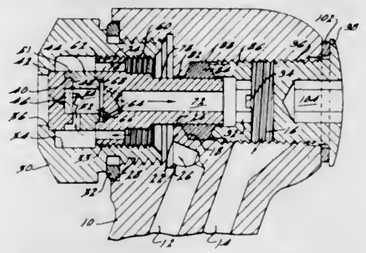
2,613,996
SEALED FLOW DEVICE
John B. Letts, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 24, 1949, Serial No. 94,943
10 Claims. (Cl. 299—107)

1. In a casing arrangement for a device of the character described, an outer casing member with a cylindrical bore and including means forming a shoulder portion therearound, a deformable ring resting on said shoulder portion and including an annular inner margin defining an aperture coaxial with and of less radial extent than said cylindrical bore, and an inner cylindrical casing member connected to project through said aperture and to be disposed within the bore in radially spaced relation thereto, said inner casing member comprising an external shoulder spaced from the end thereof yieldingly engaged by the



deformable ring adjacent its annular inner margin so as to be placed in tension, said deformable ring prior to establishment of said yielding engagement assuming a resilient frusto-conical form and being operatively arranged to extend through the plane of said shoulder portion and into said bore.

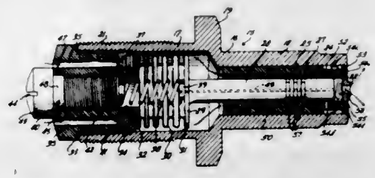
2,613,997
FUEL ATOMIZING NOZZLE
Thomas M. Ball, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 5, 1948, Serial No. 58,401
4 Claims. (Cl. 299—120)



1. An atomizing nozzle comprising a hollow-headed outer casing having a centrally restricted body and an inner casing within the body of said outer casing received in said restriction, said outer casing having internal threads in the said hollow head thereof, said inner casing having a threaded flange received in said hollow head, and engaged by the internal threads of the same and held thereby in spaced relationship to the end of said hollow head, a spray tip held between and engaged by the inner casing and said end of the hollow head, said spray tip having an ejection orifice formed therein at a location remote to said inner casing, an axially aligned cylindrical chamber behind said orifice and being constructed and arranged as to admit air through the ejection orifice at one end thereof during a circumstance of operation in the operating range of the nozzle, said chamber being open-ended at the other end and said inner casing presenting a recessed transverse surface of a larger diameter than that of the cylindrical chamber and longitudinally spaced from said open-ended other end and forming a floor for the chamber extending circumferentially laterally of the open end of said chamber so as to form therewith a continuous cylindrical path of revolution; said spray tip further having whirl-producing passages formed therein so as tangentially to intersect said cylindrical chamber for whirling fuel thereinto and arranged in spaced relationship to the cylindrical path of revolution aforesaid to which at least a

portion of the whirling fuel progresses, and means for selective takeoff and drainage from the said path of revolution, of fuel to the exclusion of air and comprising collecting passages in said floor at the periphery thereof and intersecting said path of revolution and extending convergingly and axially therefrom into said inner casing.

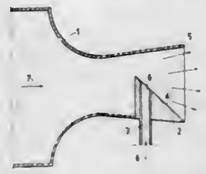
2,613,998
VARIABLE AREA FUEL NOZZLE
T Cyril Noon, Bainbridge Township, Geauga County, and Frank C. Bayer, East Cleveland, Ohio, assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application September 15, 1948, Serial No. 49,414
1 Claim. (Cl. 299—133)



A nozzle comprising a generally tubular housing, a member disposed in said housing adjacent one end thereof and having a longitudinal bore therethrough, said member having a longitudinally extending recess in the outer surface thereof defining with a facing portion of the inner surface of the housing a flow passage and having a transversely extending port between said recess and said bore, a flow control plunger having a portion slidable in said bore and normally closing said port and having an internal terminal end, said plunger being movable in a direction away from said one end of said housing for opening said port, a plug detachably secured in said housing adjacent the other end thereof and having an inlet port extending longitudinally therethrough, said plug having an inner terminal end longitudinally spaced from the inner terminal end of said plunger, a generally cylindrical flexible bellows sealingly connected at one end to said terminal end of said plug and at the other end to said terminal end of said plunger, the outer surface of said bellows being inwardly spaced from the facing inner surface portion of said tubular housing and defining therewith a fluid flow passageway communicating with said inlet port and said passage, said bellows being compressed by fluid under pressure from said inlet port to move said plunger longitudinally away from said one end of said opening and accommodate fluid flow through the nozzle.

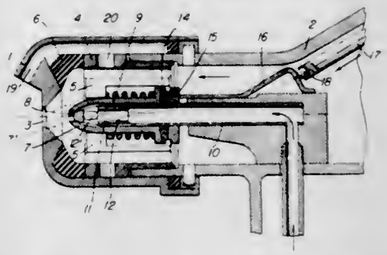
2,613,999
SURFACE-ATOMIZER
Alfred Sher and Dirk Vet, Amsterdam, Netherlands, assignors, by mesne assignments, to Machinefabriek Kiekens, N. V., Amsterdam, Netherlands, a limited corporation of the Netherlands
Application February 4, 1949, Serial No. 74,660
In the Netherlands February 24, 1948
3 Claims. (Cl. 299—140)

2. A surface-atomizer for atomizing fluid by means of a flow of gas, comprising a nozzle having an inlet end and a mouth, at least one oblong atomizing body arranged on the inner nozzle wall adjacent the outer edge thereof projecting radially inwardly and extending in the direction of the longitudinal axis of the nozzle, said atomizing body on its side facing said mouth being provided with a flat inclined atomizing surface substantially extending from the apex of said body to



said mouth, said body being of substantially airfoil contour in the direction of the gas flow and a fluid inlet conduit arranged in said atomizing body and having its opening in said surface.

2,614,000
NOZZLE FOR SPRAY GUNS
Charles L. Reinhold, Geneva, Switzerland
Application December 29, 1948, Serial No. 67,779
In Switzerland January 2, 1948
7 Claims. (Cl. 299—140.1)

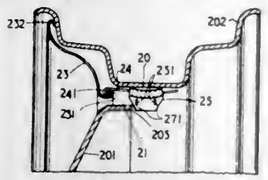


1. Nozzle structure, comprising a hollow exterior nozzle having an axial outlet and an inlet for air remote from said outlet; a valved interior nozzle spaced apart from the exterior nozzle, said interior nozzle being made up of a fixed liquid-delivery tube having a closed end and side-delivery ports, and a jet nozzle slideable longitudinally thereon, said jet nozzle having an axial opening registering with the closed end of said tube and with the said outlet of the exterior nozzle; means for normally urging said jet nozzle toward said tube so that its said outlet is closed by the closed end of said tube; and means for moving said jet nozzle toward said outlet of the exterior nozzle.

2,614,001
WHEEL COVER SECURING MEANS
Norman Rycroft, Meriden, England, assignor to Cornercroft Limited, Coventry, England, a corporation of Great Britain
Application June 7, 1949, Serial No. 97,538
In Great Britain January 12, 1949
9 Claims. (Cl. 301—37)

1. Means for embellishing pressed vehicle wheels, comprising an annulus, arcuate anchorage means of a hook shape in cross section located on the rear side of the annulus and a plurality of attachment devices each of which incorporates a retractable part adapted to be passed through a gap in a wheel and engaged in hooked relationship with the presented portion of the arcuate anchorage means, a part adapted to take an abutment on the opposite side of the wheel to that on which the annulus is to be lo-

cated and means for imparting a retractile force to the retractable part when engaged with the anchorage means whereby the annulus may be



retracted into position on a wheel and secured thereto with the retractable parts in a state of tension.

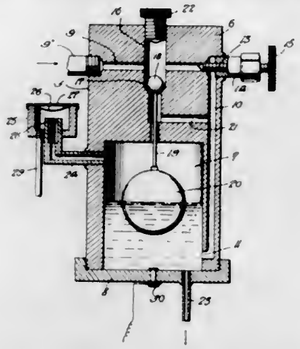
2,614,002
SAND DISPENSING APPARATUS
Barton S. Snow, Batavia, Ill., assignor to T. W. Snow Construction Company, Inc., a corporation of Illinois
Application November 7, 1949, Serial No. 125,908
14 Claims. (Cl. 302—17)



1. A sand dispenser, comprising, a dispensing tank, a tubular column on which said tank is mounted, said column passing longitudinally through the inside of the tank, a sand supply pipe of smaller outside diameter than the inside diameter of the tubular column and extending longitudinally therethrough to provide a space therebetween, a closure at the top of the column to close said space, said supply pipe leading back to the inside of the tank to blow sand under air pressure into the tank, and said column near its top having an opening to lead dust from inside of the tank into said space and withdraw it from the tank.

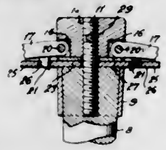
2,614,003
SAFETY VALVE FOR FLUID PRESSURE SYSTEMS
Fred Brousseau, Schenectady, and Philip J. Brousseau, Peasleeville, N. Y.
Application March 13, 1947, Serial No. 734,322
1 Claim. (Cl. 303—84)

A safety valve for liquid pressure systems of the pulsating type comprising a body having a liquid chamber therein, a vertical passage in said body above said chamber, a ball valve mounted in said vertical passage, a valve actuating rod movable in said passage and extending into said chamber, a float connected to said rod adapted to reciprocate the rod to control the ball valve, a transverse passage through said body intersecting said vertical passage above said ball valve, said transverse passage having one end connected to the source of liquid supply, a longitudinal passage through said body connected at one end to



said transverse passage and at its opposite end to the lower end of said liquid chamber, means for controlling the flow of liquid from said transverse passage into said longitudinal passage, and a branch passage establishing communication between the longitudinal passage and said vertical passage below the ball valve.

2,614,004
FOLDING PICK
Walter Johnson, Gary, Ind.
Application January 6, 1950, Serial No. 137,148
5 Claims. (Cl. 306—42)

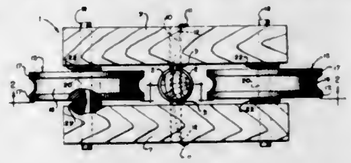


1. The combination with an elongated pick handle and a pair of pick prongs, of a bolt anchored in and projecting from one end of said handle, a supporting section combined with the prongs to form a collapsible pick head, said supporting section having a threaded bore detachably engaging said bolt, said prongs having inner ends pivotally connected to the supporting section and projecting therefrom in opposite directions to one another, extensions secured to and depending from the prongs adjacent their pivoted ends, and a retaining member mounted on said bolt between the supporting section and handle and including supporting arms engaged under portions of said prongs for supporting the prongs in extended positions relatively to one another, said supporting arms being provided with apertures receiving the prong extensions and non-rotatably connecting the prong retaining member and pick head.

2,614,005
PULL ROD CARRIER
Allen M. Rossman, Wilmette, Ill.
Application September 12, 1947, Serial No. 773,531
6 Claims. (Cl. 308—7)

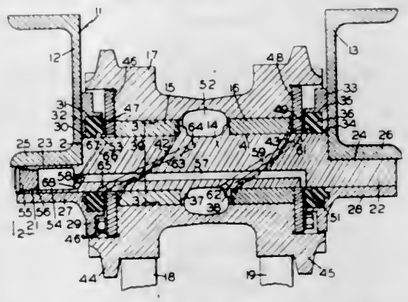
1. A pull rod carrier comprising a pair of rollers in tandem adapted to support a pull rod,

said carrier having a mounting member between the rollers and at right angles to the axes of the rollers and adapted to be mounted on a vertical post and said rollers being movable with



respect to the mounting member parallel to their axes of rotation to bring them into alignment with a pull rod even if the mounting member is mounted on a post which is out of alignment with the pull rod.

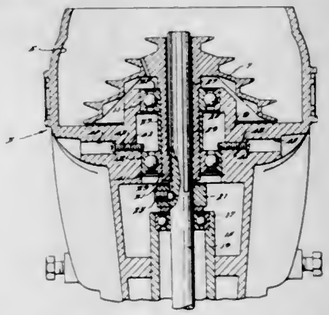
2,614,006
LUBRICATING SYSTEM ON TRACK ROLLER
William O. Bechman, Chicago, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application May 5, 1950, Serial No. 160,373
5 Claims. (Cl. 308—109)



1. In a track roller and bearing assembly, a track frame, a horizontal shaft mounted non-rotatably in said frame, said shaft having a lubricant inlet passage extending axially inwardly from an end thereof and a lubricant outlet passage also extending axially inwardly from said end of the shaft, a sleeve bearing mounted upon said shaft, a track-engaging frame-supporting roller journalled upon said sleeve bearing, there being annular lubricant receiving chambers formed between the shaft and roller at opposite ends of said bearing, said inlet passage communicating with the chamber spaced most distantly from said end of the shaft, said outlet passage communicating with an upper portion of the chamber less distantly from said end of the shaft, and a lubricant transfer passage extending diagonally downwardly through the shaft from an upper portion of the first chamber to a lower portion of the second chamber.

2,614,007
DRILL PRESS
Lee E. Torrey, Ypsilanti, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application April 10, 1947, Serial No. 740,607
6 Claims. (Cl. 308—189)

1. In a drill press or the like having a rotary drive spindle, the combination of a stationary support having an aperture therein through which the spindle passes, a drive head for the spindle comprising a pulley having an annular belt-engaging surface and a hub extending axially therefrom, said head having a spindle-receiving and -driving bore extending through the pulley and hub, means whereby the hub may be rotarily mounted in the support aperture comprising an axially spaced pair of roller-bearing structure including inner races mounted on the hub and outer races mounted in the aperture and rolling elements between the races, a spacer on the hub axially spacing the bearing structures, a first radial shoulder on the head adjacent the pulley for engagement with the race of a bearing structure to axially position the same, radial shoulder means on the sleeve engaging the race of a bearing structure and confining the bearing structures and spacer between the radial shoulders, said radial shoulder means being removable and the outer end of the hub remote from the pulley being of such diameter that the bearing structures and spacer may be axially moved on the hub over the end thereof and thus removed and disassembled from the head or alternatively may be installed and confined on the hub between the first radial shoulder and the remov-

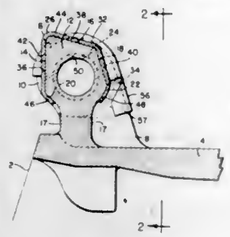


able shoulder means to thus provide a unitary assembly of head and bearing structures and spacer, said radial shoulder means comprising a groove in the hub and a snap ring in said groove, and releasable thrust-receiving means on the support extending partially across the aperture for selectively retaining the head and bearing structures in fixed axial position relative to the support or upon release allowing the assembly of head and bearing structure to be moved in the aperture, said thrust-receiving means comprising a pair of axially spaced radial shoulders, the thrust shoulder nearer the pulley comprising a radial member movably engaged with the support and operatively accessible from the outer surface of the support when the entire head is mounted thereon, the thrust shoulder remote from the pulley comprising a groove in the support aperture and a snap ring in the groove engaging the bearing structure remote from the pulley on a radial face remote from the pulley, the thrust radial member engaging the race of the bearing structure remote from the pulley on the radial face nearer the pulley.

2,614,008
JOURNAL BOX ARRANGEMENT
Walter H. Baselt, Flossmoor, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 7, 1946, Serial No. 714,708
26 Claims. (Cl. 308—47)

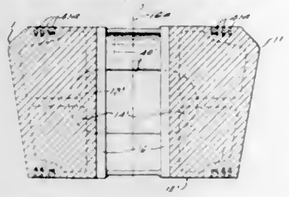
1. A journal box having an integral lug with cam faces thereon, a member sleeved over said lug and having end portions bent around the respective ends of said lug and having an inter-

mediate portion removably interlocked with said lug and sheathing said cam faces, bushing elements extending through openings in said end



portions into a longitudinal opening in said lug, and means on said elements for interlocking the same with said lug.

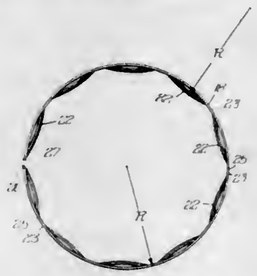
2,614,009
PISTON STRUCTURE
John P. Butterfield, Grosse Pointe Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 24, 1948, Serial No. 16,649
13 Claims. (Cl. 309—10)



1. A piston structure having pressure faces at opposite ends and a tubular skirt portion connected therebetween having a transverse slideway formed within the intermediate region of the skirt portion, the piston structure being formed of a pair of mating parts each having one outer end forming a pressure face of the piston structure and the opposite inner end designed for engaging the corresponding opposite inner end of the other mating part, the slideway comprising opposed, concavely curved, bearing portions, one formed in each mating part, each mating part having a plurality of generally parallel passages extending from the said inner end thereof to a portion of the skirt spaced from the said outer end thereof and recesses formed in the skirt at the said portions of the skirt intersecting said passages, the passages in one mating part being generally aligned with the passages in the other mating part, a plurality of bolts each of which is positioned in an aligned set of the passages in the mating parts and each having threaded ends located in the recesses, and nuts engaging the threaded ends of the bolts and portions of the mating parts at the recesses for holding the mating parts together.

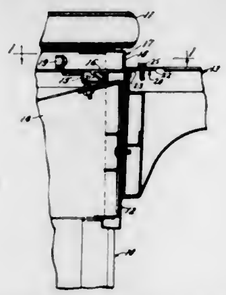
2,614,010
COMBINED EXPANDER AND OIL CHECK FOR PISTON RINGS
Stanley S. Slyk, Chicago, Ill.
Application October 6, 1948, Serial No. 53,055
14 Claims. (Cl. 309—45)

4. An oil check comprising a ring member, one edge portion thereof being approximately cylindrical, the opposite edge portion thereof being resilient and having circumferentially spaced parts thereof offset inwardly and adapted to engage the circumferential wall and a diametrical wall of a piston ring groove, said offset parts being of bowed conformation and being connected at their ends to the material of said oil check, whereby said oil check is expansible axially in response to radial compression of the wall



of said oil check, said oil check at said inwardly offset parts having at least as great a height as the over-all axial height of said oil check whereby when said inwardly offset parts are moved toward alignment with said cylindrical portion the over-all height of said check is increased.

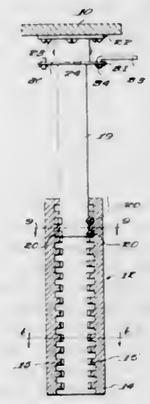
2,614,011
TYPEWRITER SUPPORT FOR DESKS
Charles Malcolm Abrahamson, Aurora, Ill., assignor to All-Steel Equipment Inc., a corporation of Illinois
Application August 11, 1950, Serial No. 178,915
3 Claims. (Cl. 311—17)



1. Clamping means for securing a desk drawer and a rigidly attached typewriter support or the like to a desk pedestal, comprising a transverse member extending across the desk pedestal and rigidly secured thereto, said transverse member having a rearwardly facing shoulder, a clip extending over the top of the drawer front and fulcrumed thereon, said clip having a downwardly extending projection at the rear end thereof adapted to fall behind and engage the rearwardly facing shoulder of said transverse member, and means for securing said clip to said support, said means being adapted to rotate said clip about the drawer front top to cause said projection to engage the rearwardly facing shoulder.

2,614,012
COFFEE TABLE WITH VERTICALLY ADJUSTABLE TOP
John C. C. Yuan, Washington, D. C.
Application June 16, 1950, Serial No. 168,425
1 Claim. (Cl. 311—39)

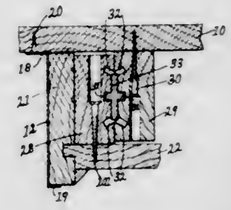
An adjustable table comprising a horizontally disposed top, a plurality of spaced parallel vertically disposed hollow sleeves, each of said sleeves being provided with a first and second set of superimposed spaced ladder-like lugs, the first set of lugs being spaced oppositely from the second set of lugs to define a pair of oppositely arranged smooth portions in said sleeves, a vertically disposed stem telescopically arranged in each of said sleeves, a first and second set of diametrically opposed teeth projecting from the lower end of each of said stems and mounted for movement into and out of engagement with the lugs of said sleeves, said teeth being each provided with a tapered end so as to facilitate movement of said teeth between said lugs, means operatively connecting each of said stems to said top, said means comprising a plate secured to the undersurface of said top, a bracket surrounding the upper end of each of said stems



and secured to the upper end of each of said stems, said bracket being provided with a circular opening in the upper end thereof, a disc rotatably seated in said opening, a spacer member positioned below said disc and formed integral with said disc, said disc being of less diameter than said spacer member, a securing element pivotally connecting said plate, disc and spacer member together, a pair of spaced ears projecting from each bracket and each provided with an aperture, rods each having a transverse portion engaging said apertures for pivotally connecting the ears of said brackets together whereby rotation of one stem causes all of said stems to rotate in unison, and spring members having one end engaging one of said apertures and the other end secured to said top for normally maintaining said teeth in engagement with said lugs.

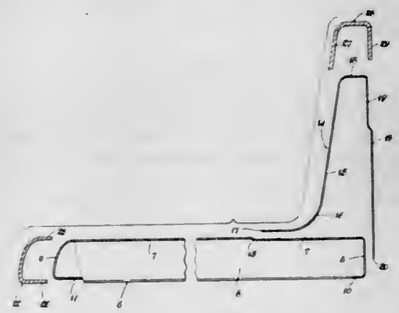
2,614,013
EXTENSION TABLE WITH DETACHABLE END LEAVES
Manuel Langius, Grand Rapids, Mich.
Application December 11, 1948, Serial No. 64,846
1 Claim. (Cl. 311—52)

In a top for an extension table, the improvement comprising: a main top member; a pair of spaced, parallel first runners secured to said main top member; a pair of spaced, parallel second runners parallel to and slidably engaging said first runners; each of said second runners being outwardly of its adjacent first runner with respect to the center of said table; a thin, elongated plate mounted on its upper end to said main top member and on its lower end having an inwardly directed flange; each of said plates being parallel to said first and second runners, outwardly of and closely adjacent to one of said



second runners and extending substantially the length of said main top member.

2,614,014
TABLE TOP AND BACK SPLASH CONSTRUCTION
Jacques Stanitz, Warren, Ohio, assignor to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application January 6, 1950, Serial No. 137,082
2 Claims. (Cl. 311—106)

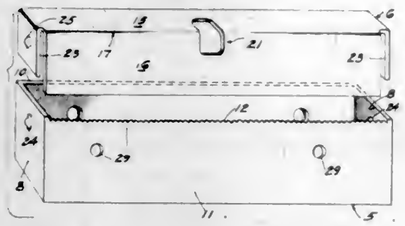


1. In a table top construction including a sheet metal base member having a flat top portion formed around its edges with a downturned flange, the rear part of said flat top portion being recessed to form a transverse shoulder therein, a sheet metal back splash member extending along the rear edge of said base, said back splash member having a front coved portion welded to the recessed top portion of the base and merging with said shoulder and a back flange extending downwardly from the top of the back splash member and welded to the downturned flange at the rear of the base member, and a pliable covering material extending continuously over said flat top portion of the base and said front portion of the back splash.

2,614,015
WAX PAPER DISPENSER
Charles L. McGehee, Los Angeles, Calif.
Application April 2, 1949, Serial No. 85,079
1 Claim. (Cl. 312—39)

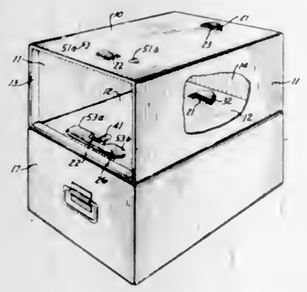
In a container for dispensing rolled wax paper of the type to be permanently fastened to a vertical supporting wall, a rigid open top rectangular body having an integral bottom and front, rear and end walls of equal height, the top edge of the front wall being of zigzag formation to provide a cutting edge, a rigid top section entirely separated from the body and having integral top, front and end walls, the front edges

of the sides of the top sections being separated from the front wall thereof so that the side walls of the top section fit exteriorly of the side walls of the body, the front wall of the top section fitting interiorly of the front wall of the body and having a depth exceeding one half the depth of the front wall of the body, said inner and outer front walls being arranged in closely



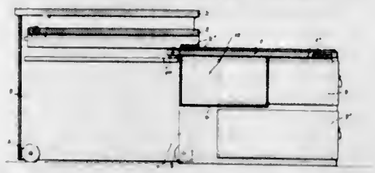
adjacent parallel relation to form a close paper guide, the rigid top sections of the container being slidably fitted on the body section, said side walls of the top section and the body being disposed to interengage so as to maintain the top section in position with the front wall spaced from the front wall of the body in parallel paper guiding relation.

2,614,016
INTERLOCKING FILING CABINETS
Hans W. Regenhardt, Wooster, Ohio, assignor to Record Files, Inc., Wooster, Ohio, a corporation of Ohio
Application February 11, 1949, Serial No. 75,817
4 Claims. (Cl. 312—111)



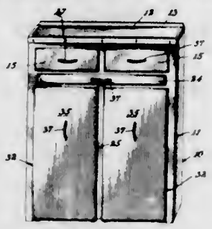
2. Means for stacking a pair of cabinet units comprising a first generally laterally extending interlock at the forward end of said cabinet units, a second generally laterally extending interlock at the rear end of said cabinet units, said first and second interlocks being aligned with each other in the central vertical plane of the cabinet, and, precluding unintended lateral traverse of either unit with respect to the other, paired cooperating slit-metal stops incorporated in said first interlock at the lateral limits thereof, one component portion of each pair projecting upwardly from the lower unit and another component portion of each pair projecting upwardly from the floor of the upper unit, which stops are angled relative to said central vertical plane so as to become engaged and dis-engaged only upon relative movement in a generally vertical direction.

2,614,017
MULTIPLE TABLE DESK
Joachim Mugnier, Seynod, France
Application July 18, 1945, Serial No. 605,730
In France August 9, 1944
2 Claims. (Cl. 312—196)



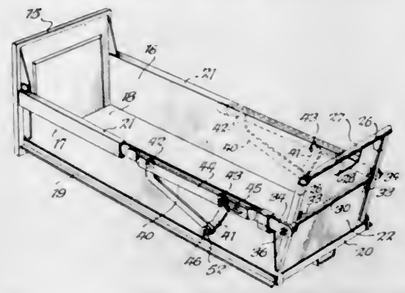
1. A pedestal desk for office work having a working side including a leg-well to accommodate the user with a pedestal on each side of the well, and comprising a stationary support member having a movable member having a working surface, and a plurality of superposed movable members each having a working surface successively overlying the working surface of the support member, each movable member being spaced vertically from and extending rearwardly beyond the support member, each movable member being mounted for sliding movement relativelv to the support member from a retracted position overlying the support member to an extended position remote from the working side thereof, a horizontal slideway fixed to the lower part of either side of the stationary support member laterally of and perpendicular to the working side thereof, the uppermost movable member comprising a vertical panel extending downwardly from the working surface thereof laterally of each pedestal and further comprising rollers cooperating with the slideways, and further rollers supporting said uppermost movable member on the floor.

2,614,018
COMBINATION CABINET
Walter Engel, Woodmere, N. Y.
Application December 21, 1949, Serial No. 134,250
6 Claims. (Cl. 312—235)



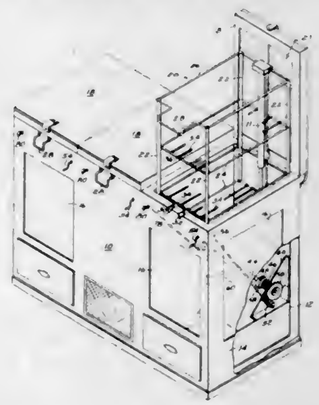
1. In a combination article of furniture, a cabinet structure having a top portion, also an open front; an extension table slidably mounted in the structure beneath said top portion and having at its front edge a supporting leg provided with anti-friction means at its floor-engaging end, guide means for the side edges of said table being provided within the cabinet structure; a pair of independent chairs adapted to pass through the open cabinet front and to normally repose with their seats within the cabinet structure and beneath the table and to be disposed symmetrically in respect to said table leg, said chairs having backs extending from beneath the table to substantially the floor and being adapted to abut with their adjacent edges the side edges of said table supporting leg so that they form, in conjunction with said table leg, a closure for the front of the cabinet when the chairs are in their normal position.

2,614,019
FILING CABINET DRAWER
Herbert H. Olson, Jamestown, and Milton A. Johnson, Lakewood, N. Y., assignors to Art Metal Construction Company, Jamestown, N. Y.
Application May 23, 1950, Serial No. 163,774
12 Claims. (Cl. 312—273)



1. A filing cabinet provided with a drawer having a compression plate at the rear thereof for compressing the contents of the drawer and having the lower portion thereof pivotally mounted on said drawer to swing into a rearwardly inclined position to render the drawer contents readily accessible and into a substantially upright position to compress said contents, a slide bar slidable lengthwise of said drawer and having the rear end thereof connected with said compression plate, a toggle mechanism including a pair of pivotally connected links, one of said links having its free end pivoted on said slide bar and the other link having its free end pivoted on said drawer, said links extending downwardly toward their pivotal connection with each other when said compression plate is in rearwardly inclined position, and a part on said cabinet acting on said last mentioned pivotal connection to raise the same when said drawer is moved into closed position to move said slide bar in a direction to swing said compression plate into upright position.

2,614,020
SHELF ELEVATING MECHANISM AND CONTROL
Douglas Collins, Salisbury, N. C.
Application June 7, 1949, Serial No. 97,681
12 Claims. (Cl. 312—312)



1. In a refrigerator, walls defining an open-top compartment, a storage rack assembly, guide means for guiding said rack assembly for vertical movement into and out of the top of said compartment, a shaft journaled in the lower portion of said compartment, means actuated by said shaft upon rotation thereof in one direction for elevating said rack assembly, power means for rotating said shaft in said one direction to elevate said rack assembly, manually releasable brake means normally effective in all vertical positions of said assembly to arrest movement thereof by preventing the rotation of said shaft by said power means in said one direction and operative when released to permit rotation of said shaft in said one direction, control means for releasing said brake means, and a one-way connection between said brake means and said shaft normally permitting rotation of said shaft in an opposite direction upon the application of lowering force to said assembly in excess of the elevating power of said power means, whereby said rack assembly may be stopped in any of an infinite number of positions in its upward movement by the brake means under control of said control means and said rack assembly may also be stopped in any of an infinite number of positions in its movement in a downward direction by said brake means independently of the control means upon the cessation of the application of a lowering force sufficient to overcome the elevating power of the power means.

2,614,021
REFRIGERATING APPARATUS
Whitney Giffard, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application June 25, 1947, Serial No. 757,017
1 Claim. (Cl. 312—319)



In a refrigerating apparatus, a cabinet heat breaker strip around a corner of an access opening to the cabinet, a pair of vertically spaced recesses in the outer face of said heat breaker strip, hinge butts on said breaker strip formed by and at each of said recesses, said hinge butts joining the recessed wall to the heat breaker strip proper behind the latter and having apertures, a pair of vertically spaced pintles respectively received and rotatable in said apertures, a pair of torsion springs having ends respectively attached to said rotatable pintles and their other ends anchored to said heat breaker strip between said recesses, said springs acting to rotate said pintles, a door

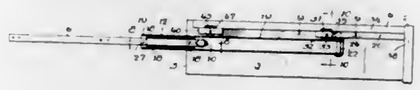
to close said access opening having a pair of hinge butts disposed rearwardly thereof respectively engaging in said recesses and apertured to receive said pintles, and means locking said door butts to said pintles and held in locked position by said springs.

2,614,022

DRAWER SLIDE

George B. Kurtzon, Chicago, Ill., assignor to Garden City Plating & Manufacturing Co., a corporation of Illinois

Application April 10, 1948, Serial No. 20,301
5 Claims. (Cl. 312—339)



4. In combination, a drawer, a housing for said drawer, a stationary channel secured to said housing, an extension channel movable relative to said stationary channel, a third channel fixed to said drawer adjacent its front edge, said third mentioned channel having a roller engaging said extension channel, a bumper on said extension channel, and a stop member in said third channel forwardly of said roller engaging said bumper to limit forward movement of said third channel relative to said extension channel, the side walls of said third channel straddling said bumper to prevent sidewise displacement of said third channel relative to said extension channel.

CHEMICAL

2,614,023

PROCESS FOR DYEING CELLULOSE DERIVATIVE TEXTILE MATERIAL BY IMPREGNATING IT WITH A SWELLING SOLUTION CONTAINING UREA AND AN ESTERIFIED LEUCO VAT DYE AND SUBSEQUENTLY STEAMING TWICE

Henry Charles Olpin and Tom Jackson, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application February 12, 1949, Serial No. 76,187. In Great Britain February 23, 1948

6 Claims. (Cl. 8—35)

1. Process for the coloration of textile material of a cellulose derivative selected from the group consisting of cellulose esters and cellulose ethers, which comprises impregnating the material with a solution of an ester of a leuco vat dye in a mixture of water and an organic liquid containing urea, the said mixture of water and organic liquid being a swelling agent for the cellulose derivative, and thereafter steaming the material, converting the ester to the parent vat dye, and again steaming the material.

2,614,024

THIOFORMALDEHYDE AND MERCURIC CHLORIDE TREATMENT OF PROTEIN FILAMENTS

George K. Simpson, Fairlie, and David Traill, Ardrossan, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application February 4, 1949, Serial No. 74,724. In Great Britain March 3, 1948
7 Claims. (Cl. 8—127.6)

1. A method of improving the strength of artificial protein filaments selected from the group consisting of casein and vegetable seed protein filaments which have been insolubilized by treatment with nascent monomeric thioformaldehyde formed in situ which comprises stretching said insolubilized protein filaments while in an aqueous solution of mercuric chloride under conditions sufficient to effect a substantial increase in the wet strength and dry elongation at break of said filaments.

2,614,025

FORMALDEHYDE AND URANYL SALT TREATMENT OF PROTEIN FILAMENTS

George K. Simpson, Ardrossan, and John Brooks, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application February 21, 1949, Serial No. 77,676. In Great Britain April 26, 1948

7 Claims. (Cl. 8—127.6)

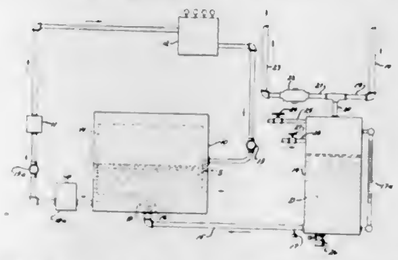
1. A method of improving the strength of coagulated protein filaments selected from the group consisting of casein and vegetable globulin filaments which have been insolubilized so as to be resistant to boiling water and hot dilute acids, by treatment with formaldehyde while in contact with an acidified highly concentrated salt solution which comprises immersing the insolubilized filaments in an aqueous solution of at least one uranyl salt under conditions sufficient to effect a substantial increase in the tensile strength of said filaments.

2,614,026

DRY CLEANING METHOD AND APPARATUS

Joseph T. Lascari, Torrington, Conn.

Application October 31, 1950, Serial No. 193,133
3 Claims. (Cl. 8—142)



1. The process of dry cleaning fabrics which comprises agitating a batch of fabrics in a solution of a dry cleaning solvent and a detergent emulsifier to remove from said fabrics the dry cleaning solvent-soluble soil, and while continuing the agitation of said solution in contact with said fabrics subsequently injecting under pressure atomized finely-dispersed water particles into said solution below the surface level thereof in such a quantity as to produce a cloudy emulsion with the water particles suspended therein, continuing the agitation of said fabrics in the water-charged emulsion to remove the water soluble soil from said fabrics, removing said emulsion and solvent-soluble and water-soluble soil from said fabrics, and finally filtering the soil and water particles from said emulsion.

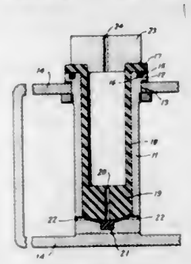
3. In a dry cleaning apparatus, a circulatory system including a washer tank within which is a rotatable perforated tumbler barrel adapted to contain a batch of fabrics and a dry cleaning solvent charged with a detergent, means for rotating said tumbler barrel in said tank to remove the solvent-soluble soil from the fabrics therein, a first conduit, means to supply water under pressure to said first conduit, an atomizer within the washer tank and located below the surface level of said solvent and connected to the other end of said first conduit for injecting finely-dispersed water particles into said solvent after the solvent-soluble soil has been removed from said fabrics, to produce a cloudy emulsion and suspension of water in said solvent, whereby the subsequent continued rotation of said barrel and the batch of fabrics therein will remove the water-soluble soil from said fabrics, a pump, a second conduit leading from said tank to said pump, a third conduit connected to said pump and leading back to said tank, and a filter in said third conduit to remove all the soil and suspended water from said solvent before it is returned to said tank.

2,614,027

DEVICE FOR STERILIZING HOLLOW THERMOPLASTIC ARTICLES BY HEAT

Paul Kollsman, New York, N. Y.

Application April 28, 1948, Serial No. 23,826
3 Claims. (Cl. 21—96)



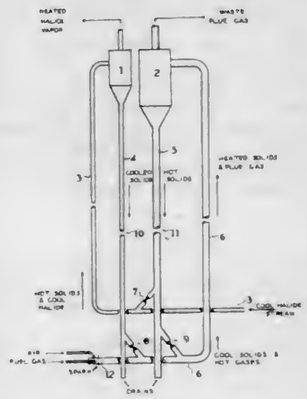
1. A device for sterilizing hollow elements of hypodermic syringes, said elements being of substantially cylindrical shape and having an open ended flange at one end and an apertured end wall at the other end, said elements being made of thermoplastic material assuming a plastic state at sterilizing temperatures, the device comprising a chamber; means for heating the interior of said chamber; a rigid post mounted inside said chamber, said post having a cylindrical outside surface thereon and a shoulder extending substantially normal to said cylindrical surface at the base of said post; a sealing ring in said shoulder about said cylindrical surface for sealing the flange of said hollow syringe element with respect to said surface, said post having a passage therethrough, one end of said passage terminating at said outside surface of the post, and a source of a pressure, the other end of said passage being in communication with said source of pressure.

2,614,028

METHOD OF SUPERHEATING TITANIUM TETRACHLORIDE

Holger H. Schaumann, Newark, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application July 16, 1947, Serial No. 761,227
1 Claim. (Cl. 23—87)



A method for superheating titanium tetrachloride to 800° C. which comprises entraining in titanium tetrachloride vapor at a temperature of 138° C. quartz sand particles at a temperature of 1000° C. and which average 700 microns in diameter, utilizing in the entraining operation a velocity of 250 pounds per hour of $TiCl_4$ vapor and 2 pounds of sand per pound of titanium tetrachloride vapor, flowing the resulting mixture in a confined, elongated stream as a fluidized suspension and until desired heat exchange between said chloride vapors and sand is effected, and then separating said sand from the superheated titanium tetrachloride vapors.

2,614,029

PURIFICATION OF SILVER NITRATE SOLUTIONS

Jerome A. Moede, New Brunswick, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 21, 1951, Serial No. 212,211
5 Claims. (Cl. 23—102)

1. A process of purifying an aqueous solution of silver nitrate containing small amounts of heavy metal and noble metal impurities which comprises treating said solution with silver oxide to attain a pH of at least 6.1, separating the silver nitrate solution from the precipitate and passing the resulting solution into contact with at least one water-insoluble porous solid adsorbent, at least one of which is an adsorbent taken from the group consisting of alumina and magnesia.

2,614,030

MANUFACTURE OF MANGANESE DIOXIDE FROM MANGANOUS SULFATE SOLUTIONS

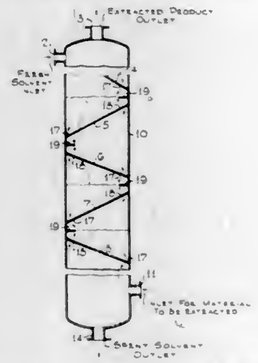
Jonas Kamlet, New York, N. Y., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application November 10, 1949, Serial No. 126,689
8 Claims. (Cl. 23—145)

1. A process for the manufacture of manganese dioxide from an aqueous manganous sulfate

solution which comprises the steps of (*a*) reacting the manganous sulfate solution with a substantially equimolecular amount of calcium chloride and separating the resultant precipitate of calcium sulfate from the resultant solution of manganese chloride, (*b*) reacting the manganese chloride solution with an equimolecular amount of lime in the presence of a substantial excess of lime and passing an oxygen-containing gas through the resultant suspension of manganous hydroxide and excess lime in calcium chloride solution, whereby the major portion of the divalent manganese is oxidized to the tetravalent valence, and (*c*) chlorinating the product obtained in step (*b*) until substantially all of the remaining divalent manganese is oxidized to the tetravalent state, and finally separating the resultant manganese dioxide product from the concomitant calcium chloride solution.

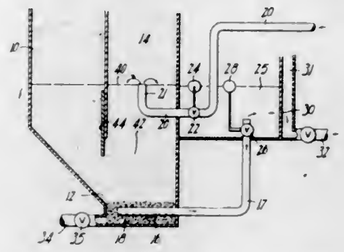
2,614,031
LIQUID-LIQUID EXTRACTION TOWER
Richard B. Tickler, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 19, 1950, Serial No. 156,814
2 Claims. (Cl. 23—270.5)



1. In a liquid-liquid extraction tower, the combination comprising a shell, a vertical series of transverse plate members sealed peripherally to the shell in zig-zag, angularly sloped relationship thereto, and to each other, each pair of plates extending from an area of vertically spaced maximum convergence against the shell to a diametrically opposed area of vertically spaced maximum divergence against the shell, each pair of plates with the shell defining a confined mixing zone in said area of maximum convergence, and a settling zone in direct communication with said mixing zone extending laterally therefrom and progressively enlarged toward the opposite area of maximum divergence, diametrically opposed perforated areas in each plate adjacent the shell wall substantially corresponding to said areas of maximum convergence and divergence respectively, an inlet to said shell above the uppermost plate in said series and an outlet below the lowermost plate thereof.

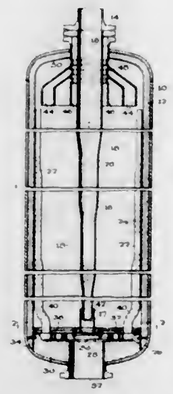
2,614,032
SALT DISSOLVER
Alvin William Eichstaedt, East Aurora, N. Y., assignor to International Salt Company, Inc., Scranton, Pa.
Application March 10, 1950, Serial No. 148,931
5 Claims. (Cl. 23—272)

1. A salt dissolver comprising in combination, a bin for salt to be dissolved, a dissolving chamber in open communication with the lower portion of said bin, a brine reservoir, a brine outlet device in a lower portion of said chamber for discharge of brine therefrom to said reservoir, a salt solvent inlet device arranged to discharge solvent into said chamber, valve means regulating flow of solvent through said inlet device and a first control float positionally controlled by level of liquid in said reservoir and connected to said valve means for actuation thereof, a discharge opening in one wall of said reservoir of such size so



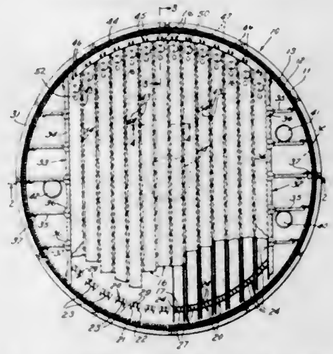
as to be responsive to the liquid pressure head therein to discharge liquid therefrom at a constant rate under constant head conditions in said reservoir, and means receiving the output from said discharge device for conveying the liquid to a point of use while avoiding imposition of back pressure against said discharge opening, a valve regulating flow of brine into said reservoir, and a second control float connected to and controlling said valve in response to changes in the level of brine in said reservoir to maintain the liquid pressure head constant.

2,614,033
HYDRODESULFURIZATION REACTOR
Paul W. Cornell, Mount Lebanon, and Charles E. Carter, Canonsburg, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 26, 1949, Serial No. 89,692
6 Claims. (Cl. 23—288)



1. A reactor comprising a cylindrical shell, a cirumferentially perforated inlet conduit the diameter of which decreases downwardly from its entrance at the top of said shell, said inlet conduit extending axially within said shell and terminating in a closed end spaced from the adjacent shell end, a plurality of perforate collecting conduits the diameter of each of which decreases upwardly from its exit end in the lower portion of said shell, said collecting conduits extending lengthwise of said shell and closely adjacent its inner wall, a support structure for treatment material extending to the inner wall of the reactor beneath the end of said inlet conduit and formed with spaced openings communicating respectively with said collecting conduits, said support structure defining a collecting chamber, and an outlet conduit in communication with said chamber.

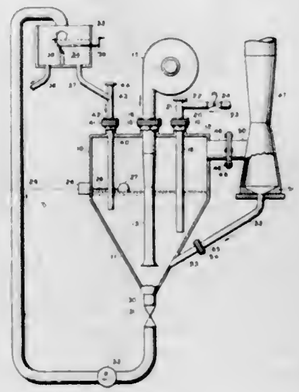
2,614,034
CATALYST VESSEL
Egon F. Brummerstedt, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application February 1, 1947, Serial No. 725,850
17 Claims. (Cl. 23—288)



8. In a catalyst chamber, a supporting floor comprising a grid on which a bed of finely divided catalyst is supported, the floor being positioned in spaced relationship to the bottom of the chamber, the chamber having a catalyst inlet below said floor, said grid comprising a plurality of elongated beams extending in substantially the same horizontal plane transversely of the chamber to a point short of the inner peripheral surface of said chamber adjacent the ends of the beams, the beams being laterally spaced from one another such distance as to form longitudinally extending slots therebetween, which slots are relatively narrow in comparison to the width of said beams, supporting means on the wall of the chamber adjacent opposite ends of said beams and disposed in supporting relationship to said ends of the beams, anchoring means associated with said ends of the beams and the supporting means and anchoring the beams in longitudinally movable relationship in respect to said supporting means, and slot closing means for closing portions of the slots between laterally adjacent beams, said slot closing means comprising a plurality of strips of catalyst impervious material positioned between laterally adjacent beams at spaced intervals longitudinally of said beams thereby providing a plurality of spaced openings through which said catalyst flows from the catalyst inlet into the portion of the chamber above said floor.

2,614,035
EVAPORATIVE CRYSTALLIZATION PROCESS AND APPARATUS THEREFOR
Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 4, 1949, Serial No. 69,197
7 Claims. (Cl. 23—302)

3. An improved process for the manufacture of crystals which comprises introducing a hot saturated salt feed solution at a temperature in the range of 5° to 1° F. below its boiling point saturation limit to a cone bottomed evaporative crystallization zone; introducing a stream of gas to said solution at a sufficient rate to pass therethrough and to cause cooling to a temperature in the range of 145 to 150° F., evaporation, crystallization, turbulence of said solution, and classification of crystals; removing said gas from said evaporative crystallization to a separation zone wherein entrained solution is removed; returning said solution to said zone; removing a crystal magma containing the largest classified crystals from the bottom of said evaporative crystallization zone; passing said magma to a dividing zone, passing a portion of said magma to a crystal recovery zone; recycling the remaining magma in a ratio of 1:1 to 5:1 volumes per volume of magma passed to said crystal recovery zone; and recycling mother liquor removed from said crystals in said crystal recovery zone.

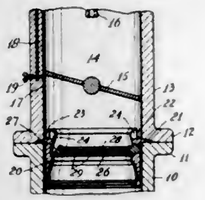


2,614,036
ARTIFICIAL FLOWER AND CLUSTER AND METHOD OF MAKING SAME
Daniel Glasgow and Horace Glasgow, New York, N. Y.
Application June 14, 1946, Serial No. 676,630
10 Claims. (Cl. 41—13)



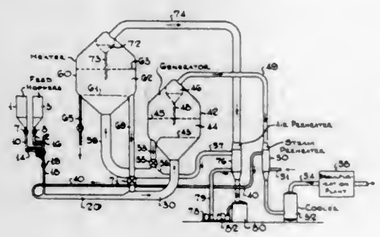
1. A wire stemmed artificial flower comprising, in combination, a substantially flat petal structure; a wire stem extending substantially centrally through said petal structure; and a globule of adhesive engaged with said stem and the face side of said petal structure adhesively securing said stem in unitary relation to said petal structure and forming a pep head for the flower, said adhesive comprising the sole means securing said stem to said petal structure.

2,614,037
LIQUID FUEL ATOMIZER
William J. Linn, Pittsburgh, Pa.
Application December 13, 1950, Serial No. 200,595
11 Claims. (Cl. 48—180)



11. A liquid fuel atomizer for a fuel and air charging duct of an internal combustion engine comprising at least one diffuser bar projecting inwardly from the interior of the duct, said diffuser bar having a channel portion extending from a point adjacent on the end to a point adjacent the other end, said diffuser bar being fixed in the duct so that the open part of the channel faces the incoming stream of fuel and air mixture, and a plurality of passages extending from the base of the channel to the side of the diffuser bar opposite the incoming stream of fuel and air mixture.

2,614,038
PRODUCTION OF SULFUR FREE WATER GAS
Frank T. Barr, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 28, 1945, Serial No. 637,615
8 Claims. (Cl. 48—204)

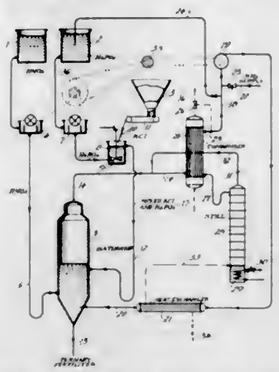


1. In a process for the production of fuel gases free of sulfur compounds by the gasification of solid carbonaceous materials with a reactant gas adapted to convert carbon into carbon monoxide at temperatures of about 1400°–2400° F. followed by the removal of H_2S from the fuel gas produced, the improvement which comprises subjecting said solid materials admixed with about 0.2–1% by weight of a catalyst promoting the cracking of organic sulfur compounds, to said gasification at said temperatures to produce a fuel gas containing H_2S, but free of organic sulfur compounds, quenching said fuel gas to a temperature not exceeding 600° F. so as to prevent the formation of organic sulfur compounds in said fuel gas, subjecting said quenched fuel gas to a treatment adapted to remove H_2S therefrom, and recovering from said treatment a fuel gas essentially free of sulfur compounds.

2,614,039
COMPOSITION FOR AND METHODS OF PRESERVING THE FRESHNESS OF BOTANICAL PRODUCTS AFTER SEVERANCE THEREOF FROM LIVING PLANTS
Charles L. Hamner, East Lansing, Mich., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application October 15, 1949, Serial No. 121,641
8 Claims. (Cl. 71—2.7)

1. The method of preserving the freshness of a perishable botanical product produced by and severed from a living plant which comprises applying to at least a permeable portion of said product an aqueous composition containing a water-soluble amino-acid having an unsubstituted hydroxyalkyl substituent directly linked to the nitrogen atom of the amino group.

2,614,040
METHOD OF AMMONIZATION
Philippe Kaikinger, Selzaete, Belgium, assignor to Manufactures de Produits Chimiques du Nord Etablissements Kuhlmann, Paris, France, a corporation of France
Application May 1, 1947, Serial No. 745,189
In France February 12, 1947
2 Claims. (Cl. 71—36)

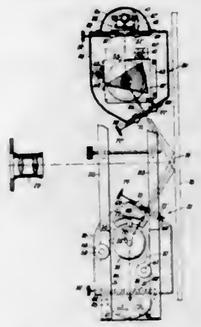


1. A method of manufacturing concentrated and highly soluble ternary fertilizers from raw materials including phosphoric acid and nitric acid solutions, potassium chloride and gaseous ammonia, which comprises maintaining in a closed reaction container, at a temperature well above the normal boiling point of water and under a substantially constant pressure a large and relatively deep mass of a fluid aqueous paste previously formed by combining such materials therein, continuously combining relatively small streams of said materials into said mass by introducing potassium chloride with phosphoric acid solution into an upper zone of the mass, introducing nitric acid solution at a remote point into an intermediate zone of the mass, introducing the ammonia under pressure into a bottom zone of the mass and bubbling it through the mass at a rate exceeding that required to ammonize the nitric acid inflow and diammonize completely the phosphoric acid inflow, thereby keeping substantially the entire mass well agitated and distinctly alkaline and causing immediate ammonization of the inflowing acids so as to avoid degradations within the mass, by regulating the excess ammonia inflow regulating the temperature of the mass and its steam pressure so that it forms continuously as a fluid aqueous paste of crystalline salts in a normally liquid aqueous medium, and withdrawing from the bottom of the mass surplus paste thus formed having its phosphate content completely diammonized.

2,614,041
TITANIUM MOLYBDENUM ALLOYS
Walter L. Finlay, Fairfield, Conn., assignor, by mesne assignments, to Rem-Cru Titanium, Inc., Midland, Pa., a corporation of Pennsylvania
No Drawing. Application August 4, 1949, Serial No. 108,662
1 Claim. (Cl. 75—134)

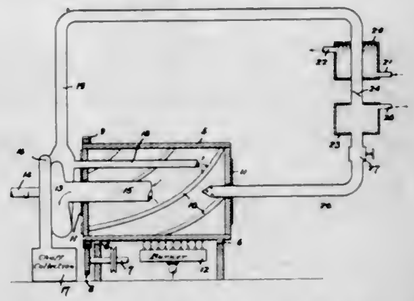
An alloy consisting essentially of between 30% and 40% molybdenum, balance titanium; said alloy having a corrosion rate in boiling hydrochloric acid of not over about 10 mils per year.

2,614,042
METHOD FOR COLOR SEPARATION
William C. Huebner, New York, N. Y.
Application July 18, 1947, Serial No. 761,783
6 Claims. (Cl. 95—2)



1. In the art of producing a color separation negative of a color copy; focusing a copying camera on the color copy with the field of view of the objective lens of the camera including the entire surface of the copy, excluding extraneous light from the copy, then passing from a light source white light through a prism with said light source and said prism at least equal in length to one dimension of the copy, then masking the spectrum produced to form a band of light of a single predetermined color of substantially uniform density throughout and coextensive in length with one dimension of the copy but fractional in width compared to the other dimension thereof, projecting upon an extremity of the unlighted copy said band of light which uniformly illuminates only a zone of the copy corresponding to the area of the band, then moving the band of light while always entirely within the field of view of the camera lens in the direction of its width and of the other dimension of the copy and with its origin at a constant distance from the copy until the moving band of light has scanned the entire copy and has uniformly illuminated successive zones thereof each corresponding to the band area with said successive zones aggregating the entire surface of the copy, and simultaneously and continuously with the scanning of the copy by the band of light exposing a photo sensitive element in the camera through the lens of the latter to the successively and uniformly illuminated zones of the copy which are each always entirely in the field of view of the lens whereby a single predetermined color separation negative of the copy is produced.

2,614,043
PROCESS OF ROASTING COFFEE
William J. Lenz, Louisville, Ky.; Herman Cohen administrator of said William J. Lenz, deceased
Application April 28, 1950, Serial No. 158,700
9 Claims. (Cl. 99—68)



1. The method of treating coffee, comprising roasting the coffee beans in a closed chamber, withdrawing the vapors from said chamber, condensing the condensible constituents of said vapors to form a condensate, removing the non-condensible vapors, and reintroducing said condensate to said closed chamber, all in a closed system.

2,614,044
METHOD OF PREPARING CORN FOR POPPING
Howard C. Smith, Sioux City, Iowa, assignor to American Pop Corn Company, Sioux City, Iowa, a corporation of Iowa
No Drawing. Application March 21, 1950, Serial No. 151,047
1 Claim. (Cl. 99—81)

A method of preparing popcorn for popping which comprises storing a quantity of freshly harvested popcorn ears under shelter but freely exposed to atmospheric air throughout the quantity for a period of time including the spring months to induce a curing of said popcorn evidenced by the generation of heat, said atmospheric exposure and said generation of heat both serving to reduce the original moisture content of said popcorn, sufficiently turning over said quantity of popcorn during said generation of heat to maintain uniform temperature in said popcorn whereby uniform drying and curing of the entire quantity of popcorn is promoted, continuing said storage until the moisture content of said popcorn has been reduced from between 16% to 18% to between 12.7% to 13.5%, continuing said storage after said reduction in popcorn moisture content whereby the moisture is maintained between said 12.7% and 13.5% without loss of desirable popping qualities, thereafter shelling said popcorn while it still has substantially said reduced moisture content and while such moisture content is still uniform throughout the quantity of popcorn, and packaging the shelled popcorn kernels in moistureproof containers.

2,614,045
PROCESSES FOR THE TREATMENT OF SOYA BEANS AND OTHER LEGUMINOUS SEEDS
Eric Mitchell Learmonth, Charlwood, England, assignor to British Soya Products Limited, London, England, a company of Great Britain
No Drawing. Application April 7, 1950, Serial No. 154,729. In Great Britain April 8, 1949
3 Claims. (Cl. 99—99)

1. A process for heat-treating leguminous seeds which comprises heating the whole seeds at at-

mospheric pressure rapidly and uniformly throughout their volume to a temperature of the order of 122° C., but not exceeding 135° C., by the application of high frequency electric heating in order to convert into steam part at least of the moisture contained in the seeds.

2,614,046

METHOD OF ENHANCING THE WHIPPING PROPERTIES OF EGG ALBUMEN SOLUTIONS AND WHIPPABLE EGG ALBUMEN COMPOSITIONS

Sanford Joseph Werbin, New York, N. Y., assignor to Stein, Hall & Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application April 1, 1950, Serial No. 153,499

7 Claims. (Cl. 99—113)

1. A dry composition of matter adapted to be dissolved in an aqueous medium to form a whippable product, said composition containing egg albumen as its main whippable ingredient and a relatively small quantity of sodium diacetate.

2,614,047

FROZEN CONFECTION ON A STICK

Thomas W. Turner, Newport News, Va.

Application August 10, 1950, Serial No. 178,667

2 Claims. (Cl. 99—137)



1. A frozen confection comprising a stick, a plurality of sections of frozen normally liquid materials on the stick, the mix of each of the sections including a syrup to prevent the running of the mix of one section into the mix of an adjacent section, the weight of the syrup in the mix of one section being different from the weight of the syrup in an adjacent section.

2,614,048

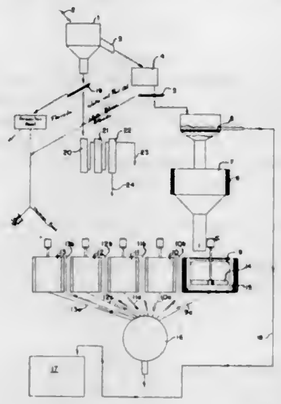
METHOD OF EXTRACTION AND TREATMENT OF FRUIT PRODUCTS

Elwood Paul Wenzelberger, Dayton, Ohio, assignor to Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio

Application May 29, 1950, Serial No. 165,048

10 Claims. (Cl. 99—155)

1. In a method of processing citrus fruit, the step (*a*), of removing the flavedo portion of the rind of the fruit, the step (*b*), of carrying away the rind refuse from the surface of the fruit as rapidly as formed by a stream of water, the step (c), of extracting the juice from the fruit by applying pressure to the fruit substantially free of rind, and the step (*d*), of extracting water



from said extracted juice by dehydration by freezing.

2,614,049

POLISHING COMPOSITION

Ralph G. Swanson, Flint, Mich., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 27, 1949, Serial No. 101,677

3 Claims. (Cl. 106—10)

2. A polishing composition having the following formula in parts by weight:

Beeswax	0.9
Microcrystalline wax	1.5
Magnesium oxide	1.5
Polysiloxane	3.0
Aluminum stearate	1.2
Naphtha B. R. 140° C.–200° C.	91.9
	100.0

2,614,050

REFRACTORY COMPOSITIONS

Samuel Rusoff, Tiffin, Ohio, assignor to Basic Refractories, Inc., Cleveland, Ohio, a corporation of Ohio

No Drawing. Application January 13, 1947, Serial No. 721,872

11 Claims. (Cl. 106—58)

2. A refractory, comprising magnesia particles and not over about ten per cent of sodium silicate, tempered with water containing an alkali metal salt of a polymerized aryl-alkyl sulphonic acid in amount not over about three per cent.

2,614,051

ROOFING GRANULES AND METHOD OF MAKING SAME

Maurice E. Buzzell, Mahtomedi, Minn., and Lauren W. Kanninen, Wausau, Wis., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application May 19, 1947, Serial No. 749,076

18 Claims. (Cl. 117—27)

1. Process for applying a colored coating to granules in the manufacture of roofing granules which comprises warming the granules to a temperature above room temperature, then applying to the granules a mixture comprising a pigment and an aqueous alkali silicate in amounts of the order of twenty-five pounds of silicate solution, of approximately 40–42% solids, per ton of granules to be coated, drying and dehydrating the silicate at temperatures not above 600° F., and applying an aqueous solution of aluminum chloride, in amounts of approximately three pounds of aluminum chloride per ton of granules, to the granule coating while said granules are above room temperature.

2,614,052

MANUFACTURE OF COPPER OXIDE RECTIFIERS

Herbert L. Taylor, Turtle Creek, and Linnie K. Hedding, Wilkinsburg, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania

No Drawing. Application March 16, 1949, Serial No. 81,838

4 Claims. (Cl. 148—6.3)

4. A method of manufacturing copper oxide rectifiers from copper blanks comprising the steps of cleaning the blanks to remove surface impurities; dipping the blanks in a water solution of hydriodic acid having a concentration of from 1.8 to 3.6 parts hydrogen iodide per million; drying the blanks; and then oxidizing the blanks.

2,614,053

METHOD OF MAKING ALUMINUM ALLOY TUBING AND PRODUCT

Russell V. Bobb, Mulberry, and Robert G. Brunger, La Fayette, Ind., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application May 27, 1950, Serial No. 164,848

6 Claims. (Cl. 148—12.7)

1. The method of making seamless tubing of an aluminum base alloy containing as the essential added alloy component 0.5 to 3% by weight of Mg_2Si, said method comprising providing a body of said alloy adapted to be extruded, heating said body to a temperature between 850 and 1100° F. for a period of time sufficient to cause solution of a substantial portion of the Mg_2Si component, cooling said body to an extrusion temperature between 600 and 1000° F., extruding said body into the form of a tubular bloom, quenching said bloom as it issues from the extrusion die, to a temperature below 500° F., cold drawing said bloom to tubing with a reduction in cross sectional area of 20 to 88%, heating said tubing to a temperature between 275 and 500° F. for a period up to 24 hours and cooling it to room temperature.

2,614,054

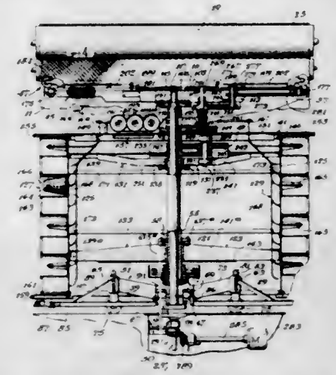
PAPER REINFORCING MACHINE

Stephen J. Baisch, Kaukauna, and Herman C. Lee, Oshkosh, Wis., assignors to Thilmany Pulp and Paper Company, Kaukauna, Wis., a corporation of Wisconsin

Application November 8, 1949, Serial No. 126,102

13 Claims. (Cl. 154—1.76)

1. A mechanism for laying threads upon a continuously moving, continuous sheet which comprises means for placing a pair of laterally spaced strings upon the moving sheet parallel to the line of movement thereof, means for laying spaced threads upon said sheet diagonally of the line of movement and around said spaced strings, said last mentioned means including a pair of spaced pulleys having their centers of rotation located inwardly of said strings, an endless conveyor which travels around said pulleys, thread



guides carried by said conveyor, and means for continuously moving said conveyor, and means for carrying threads outwardly from said conveyor to a point outwardly of said strings.

2,614,055

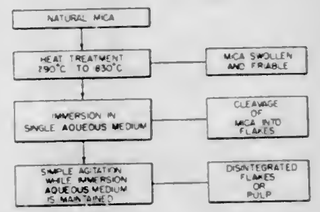
METHOD OF TREATING MICA

Gérard de Senarclens, Breitenbach, Switzerland, assignor, by mesne assignments, to Samica Corporation, Dover, Del., a corporation of Delaware

Application May 10, 1948, Serial No. 26,073

In Switzerland May 12, 1947

5 Claims. (Cl. 154—2.6)



1. A method for the conversion of mica, initially in the form of sheets, splittings and the like, into a pulp suitable for conversion into sheet form by conventional paper making methods and also for conversion into molded form, which consists of heating the mica to a temperature of about 790–830° C., immersing the heat-treated mica in a single aqueous medium which is a non-solvent therefor, maintaining such immersion in said single aqueous medium until cleavage of the mica into flake form is accomplished, and then disintegrating the resultant flakes by simple agitation thereof in said single aqueous medium until a mica pulp is formed.

2,614,056

METHOD OF AND APPARATUS FOR FORMING TIRE BANDS AND BAND SO FORMED

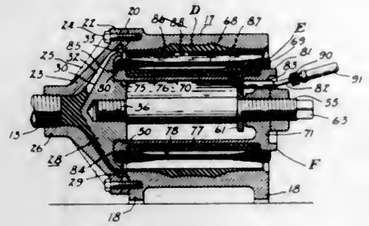
Herman T. Kraft, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

Application January 16, 1948, Serial No. 2,658

23 Claims. (Cl. 154—9)

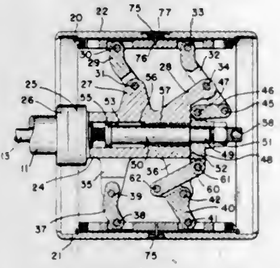
1. The method of assembling tread rubber stock on a substantially cylindrical tire ply band which comprises forming rubber stock substantially to annular tread band shape, moving the tire ply

band relatively into the tread band, and expanding the ply band radially into adhering contact with the tread band.



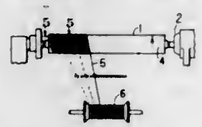
12. Apparatus for forming tire tread bands and applying them to annular ply bands comprising a mold for shaping plastic rubber composition into a seamless annular tread band of substantially cylindrical form, said mold including a member for supporting the shaped band solely by contact with the outer surface thereof, means for supporting an annular ply band and moving the same axially to a position within the supported tread band, and means associated with the ply band supporting means for expanding the positioned ply band radially into adhering contact with the inner surface of the tread band.

2,614,057
TIRE BUILDING DRUM
Donald E. Ericson, Detroit, and Ernest E. Kwierant, Van Dyke, Mich., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 21, 1951, Serial No. 212,050
11 Claims. (Cl. 154—9)



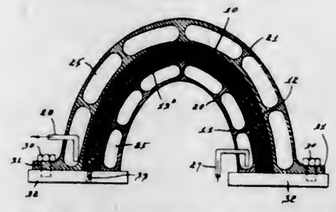
1. A collapsible tire building drum comprising in combination a hub, a set of arcuate key segments, a set of alternately disposed larger segments, links pivotally secured to the hub and pivotally secured to the segments, levers pivotally secured near their centers to the hub, and pivotally secured at one end to the key segments, an actuating block slidably mounted at the hub, pivotal links connecting the other end of the levers to said actuating block, further levers pivotally secured near their centers to the hub, and pivotally secured at one end to the larger segments, pivotal links connecting the opposite end of the said further levers to the said actuating block, the said levers and links extending in axial planes of the drum, and means for moving the block axially to collapse the segments, the levers connected to the key segments producing more rapid inward radial movement of the key segments than the further levers produce in the larger segments whereby the larger segments collapse in overlapping relation to the key segments.

2,614,058
METHODS OF FORMING REINFORCED HOLLOW PLASTIC ARTICLES
Richard J. Francis, Granville, Ohio
Application June 3, 1948, Serial No. 30,934
11 Claims. (Cl. 154—83)



1. The method of forming a hollow plastic article comprising coating a support with an uncured resin in flowable condition, applying reinforcement in the form of filaments to the coated support and spacing the filaments from each other sufficiently so that as they are applied to the support the resin of the coating will seep out through the spaces between the filaments and force the air ahead of it, and then curing the resin of the article so formed.

2,614,059
METHOD OF MAKING RADAR DOMES
Lester S. Cooper, Columbia, Conn., assignor to Rubatex Products, Inc., New York, N. Y., a corporation of Delaware
Original application May 6, 1949, Serial No. 91,676. Divided and this application January 3, 1951, Serial No. 204,211
1 Claim. (Cl. 154—110)



The method of forming a compound curved radar shield having a core of continuous homogeneous closed cell expanded sheet material confined between an outer layer and an inner layer of fibre glass sheet material impregnated with an alkyd resin comprising the steps of forming an unvulcanized rubber mix into the compound curve; partially expanding and partially vulcanizing the rubber mix; chilling the partially expanded and vulcanized mix; cutting the surface skin from the partially cured rubber; placing the partially cured rubber between fibre glass sheets, formed into said compound curve evacuating air from between the rubber and the fibre glass sheets; heating the compound unit and fully expanding the rubber into intimate contact with the fibre glass sheets, and softening the alkyd resin and integrating the rubber and fibre glass at their meeting surface.

2,614,060
GERMICIDAL COMPOSITIONS
David F. Rogers, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application August 9, 1948, Serial No. 43,350
6 Claims. (Cl. 167—14)

1. A germicidal composition comprising an alkali metal tripolyphosphate and from substantially 5% to substantially 70% by weight, based on the alkali metal tripolyphosphate, of a compound selected from the group consisting of benzyl-o-chlorophenol and its water soluble salts.

2,614,061
METHOD OF PREPARING DDT DISPERSIONS USING CARBOXY METHYL CELLULOSE
Conrad V. Coash, Chicago, Ill., assignor to The Sherwin-Williams Co., Cleveland, Ohio, a corporation of Ohio
No Drawing. Application May 3, 1948, Serial No. 24,913
2 Claims. (Cl. 167—30)

1. A process of manufacture of a fluid water reducible concentrated pest control composition which comprises intermixing at least 35% by weight of 1,1-bis(p-chlorophenyl) 2,2,2 trichloroethane, more than 0.25% and less than 2% by weight of a high viscosity type water soluble alkali metal salt of carboxy methyl cellulose in not less than 45% of water and passing the aqueous slurry thus formed through a clearance existing between two surfaces of an attrition mill, one surface of which is rotated at high velocities as compared with the other, thereby inducing a high shearing stress within the said aqueous slurry.

2,614,062
PREPARATION OF CATALASE
Havard L. Keil, Clarendon Hills, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application December 14, 1948, Serial No. 65,296
17 Claims. (Cl. 195—62)

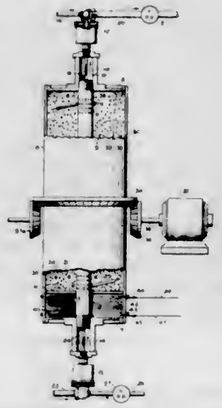
1. In a process for producing catalase from red blood cells, the steps of diluting chilled red blood cells with water and bringing the pH thereof to 5.5–4 in the presence of an alum solution to precipitate a catalase product while maintaining the temperature of the liquid body in the neighborhood of 40° F.

2,614,063
PREPARATION OF CATALASE FROM RED BLOOD CELLS AND WHOLE BLOOD
Havard L. Keil, Clarendon Hills, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application January 6, 1949, Serial No. 69,608
10 Claims. (Cl. 195—62)

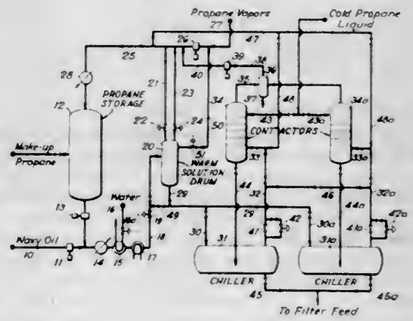
1. In the preparation of catalase from liquid selected from the group consisting of red blood cells and whole blood, the steps of mixing with the liquid carbon dioxide, adding sodium aluminum sulphate to precipitate the catalase, and separating the precipitate from the liquid.

2,614,064
METHOD OF AND APPARATUS FOR LIQUID-LIQUID CONTACTING
Samuel C. Carney, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 31, 1949, Serial No. 124,617
9 Claims. (Cl. 196—14.49)

1. In the art of liquid-liquid contacting, the steps which comprise effecting countercurrent flow of a light liquid and a heavy liquid through a mixing zone, effecting rotary movement of the liquids as they pass through the mixing zone to establish an interface between zones of light and heavy liquids, introducing magnetic particles into the mixing zone, and periodically establishing a magnetic field in the mixing zone of such character as to force the magnetic particles toward the zone of light liquid, said particles being moved toward the zone of heavy liquid by the action of centrifugal force when the magnetic field is released.



2,614,065
PROPANE DEWAXING CHILLING PROCEDURE
Kenneth H. Wanderer, Chicago, Ill., and Leonard A. Hays, Jr., Hammond, and Robert B. Selund, Highland, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application March 30, 1950, Serial No. 152,824
17 Claims. (Cl. 196—18)



1. The method of chilling a propane-oil-wax solution to obtain a wax slurry of improved filterability, which method comprises reducing the temperature of said solution to a point which is slightly above the visual cloud point of the solution, then flash chilling said solution through a temperature range at least about 5° F. but not more than about 25° F. by passing it instantaneously to a zone of lower pressure which pressure is sufficient to maintain the solution at a temperature slightly lower than its actual cloud point whereby the solution is shock chilled through the defined temperature range, and further chilling said solution by evaporative cooling to a wax filtration temperature.

13. In a chilling system for a propane dewaxing plant which comprises a holding compressor

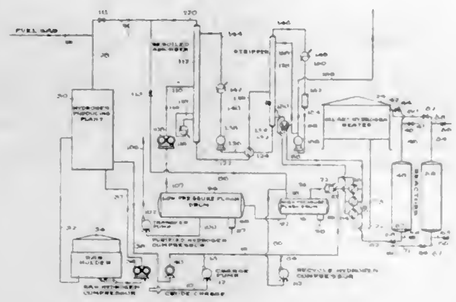
with its associated inlet line and discharge line, a warm solution drum connected through pressure control valves with the compressor discharge line, a chiller connected by a solution inlet line to the solution drum, a heat exchanger connected by a valve-containing line to the solution drum, a chilling compressor discharging into the holding compressor discharge line and connections between the chiller and the chilling compressor, the improved structure which comprises a connecting line between said warm solution drum and said holding compressor inlet line and a pressure control valve in said connecting line for enabling the warm solution drum to operate at a substantially constant pressure sufficiently low to effect flash chilling of solution from slightly above its visual cloud point through a range of at least about 5° F. but not more than about 25° F. as it passes through the valve-containing line between said exchanger and said warm solution drum.

2,614,066

HYDRODESULFURIZATION OF PETROLEUM HYDROCARBONS

Paul W. Cornell, Mount Lebanon, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania

Application May 10, 1949, Serial No. 92,436
4 Claims. (Cl. 196—28)



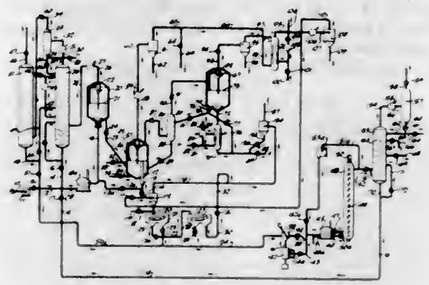
1. In the process for hydrodesulfurizing a petroleum hydrocarbon by contacting the petroleum hydrocarbon containing sulfurous material at an elevated temperature and pressure with a hydrogen-containing gas in the presence of a contact material having hydrogenating characteristics, cooling the effluent from the aforesaid hydrodesulfurizing treatment to obtain a first gas portion and a hydrocarbon liquid portion which liquid portion contains dissolved gases, separating said hydrocarbon liquid portion and removing the dissolved gases from said hydrocarbon liquid portion to obtain a second gas portion, the improvement in the above which comprises subjecting this second gas portion, without previous separation of the hydrogen and hydrocarbon components thereof, to a reforming and shift reaction whereby the hydrocarbon gas components of the second gas portion are converted into hydrogen without requiring physical separation of the hydrogen gas from the hydrocarbon gases and whereby the hydrogen contained in the second gas portion is caused to improve the operation of the reforming reaction, adding the gas stream from the reforming and shift reaction to the first gas portion and recycling said combined gas mixture into contact with the petroleum hydrocarbon to be desulfurized.

2,614,067

REFINING PROCESS AND APPARATUS

Homer C. Reed, Glendale, Clyde H. O. Berg and Charles B. Leffert, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application July 2, 1948, Serial No. 36,724
33 Claims. (Cl. 196—49)



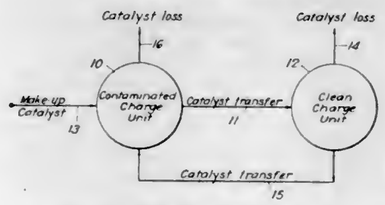
1. A process which comprises pyrolyzing a hydrocarbon oil in the presence of spent solid particles to form a hydrocarbon pyrolysis product and coke-laden particles, said spent particles being formed by reacting regenerated particles with water to liberate hydrogen therefrom, reacting said coke with said spent particles to form regenerated particles in the presence of oxygen-containing gas, combining at least a portion of said regenerated particles with at least a portion of said pyrolysis product, subjecting the mixture thus formed to hydrogenating conditions of pressure and temperature in the presence of water in the liquid phase thereby hydrogenating said pyrolysis product and forming said spent solid particles, separating hydrogenated oils from said spent particles and recirculating said particles.

2,614,068

MULTIUNIT CATALYTIC CRACKING OPERATIONS

Judd W. Healy, Whiting, and Carey W. Brackin, Crown Point, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application May 10, 1949, Serial No. 92,387
6 Claims. (Cl. 196—49)



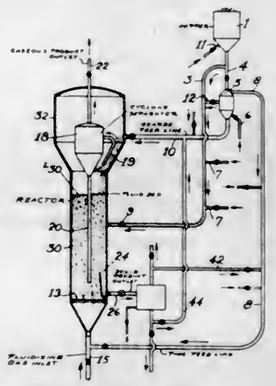
1. The method of effecting catalytic cracking with solid cracking catalyst in separate cracking units each of which contains its respective cracking zone and regeneration zone, which method comprises continuously circulating a first catalyst stream in a first unit cycle which includes a first cracking zone and a first regeneration zone and from which there is an average daily catalyst depletion amounting to only a fraction of a per cent of the catalyst circulated, continuously circulating a second catalyst stream in a second unit cycle which includes a second cracking zone and a second regeneration zone and from which there is an average daily catalyst depletion amounting to only a fraction of a per cent of the catalyst circulated, both cycles requiring addition of make-up catalyst to compensate for catalyst depletion, introducing into the first cracking zone a charging stock containing contaminants which tend to deactivate the catalyst, introducing into said second cracking zone a charging stock which is substantially free from said contaminants, transferring partially deactivated catalyst from said first unit cycle as make-up catalyst to said second unit cycle during the continuous operation thereof in amounts at least sufficient to compensate for catalyst depletion in the second cycle and introducing fresh catalyst to the first unit cycle in amounts sufficient to compensate for total catalyst depletion in both of said cycles.

2,614,069

CARBONIZING SUBDIVIDED SOLIDS

George L. Matheson, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 19, 1947, Serial No. 774,995
11 Claims. (Cl. 202—6)



1. In the method of carbonizing subdivided carbonaceous solids in the form of a dense turbulent mass fluidized by an upwardly flowing gas to form a well defined upper interface and comprising component particles readily entrainable in said gas at the fluidization conditions and other component particles tending to settle out of the fluidized mass at the fluidization conditions, the improvement which comprises supplying readily entrainable particles to a lower portion of said mass, supplying particles having a settling tendency to an upper portion of said mass so as to maintain a substantially uniform particle size distribution throughout said mass, withdrawing solids having said particle size distribution from a lower portion of said mass, separating entrainable particles from said withdrawn solids and returning at least a portion of said separated particles to a lower portion of said mass.

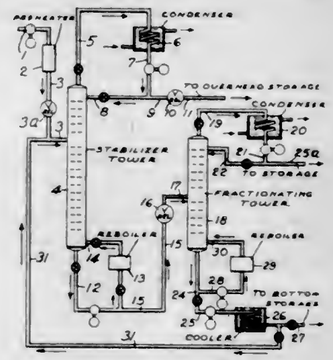
2,614,070

HEAT TREATING AND DISTILLATION OF OXO ALCOHOLS

Warren M. Smith, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 16, 1949, Serial No. 127,628
5 Claims. (Cl. 202—51)

1. An improved continuous distillation process for the purification of a mixture of crude water-immiscible C_4 to C_{15} alcohols containing high boiling thermally unstable impurities including acetals, esters, hemi-acetals, and ethers, and obtained by the catalytic reaction of olefins with carbon monoxide and hydrogen and subsequent hydrogenation of the aldehydes resulting therefrom, which comprises introducing said mixture of crude alcohols into an initial distillation stage maintained at superatmospheric pressure and at temperatures substantially above the normal boiling point of the alcohol, heat treating therein the



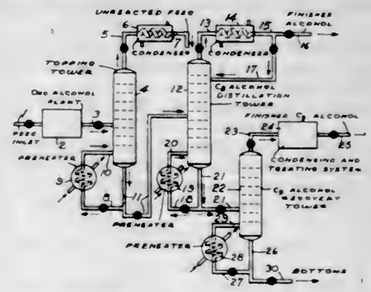
mixture of crude alcohols in the liquid phase for a period of time sufficient to decompose thermally a substantial portion of the high boiling impurities into more volatile products, removing by vaporization the impurities more volatile than the alcohol, passing the alcohol and the residual impurities less volatile than the alcohol to a second distillation stage maintained at atmospheric pressure, separating as overhead an alcohol rich vapor stream, and removing as a liquid bottoms product the residual undecomposed impurities boiling higher than the alcohol.

2,614,071

DISTILLATION OF OXO ALCOHOLS IN THE PRESENCE OF INTERMEDIATE BOILING DILUENTS

James E. Moise, Joseph S. Anderson, and Frank B. Johnson, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 29, 1949, Serial No. 135,784
7 Claims. (Cl. 202—56)



1. An improved distillation process for the purification of an impure primary alcohol produced by the Oxo process and containing from four to fifteen carbon atoms and which contains high boiling unstable impurities including acetals, esters, hemi-acetals and ethers which tend to decompose upon heating, which comprises

subjecting the alcohol to a vaporization in a vaporization zone in the presence of an inert, thermally stable liquid, which does not azeotrope with and has a boiling point of from 20 to 100 Fahrenheit degrees above that of the alcohol, the boiling point of said inert liquid being intermediate to the alcohol being purified and the high boiling impurities, maintaining the liquid temperature in the vaporization zone at all times below the critical decomposition temperature of the high boiling unstable impurities, said critical decomposition temperature being higher than normal boiling point of the alcohol being purified, and recovering as a vapor stream substantially all of the alcohol uncontaminated by volatile impurities.

2,614,072

SEPARATION OF MIXTURES CONTAINING ALCOHOLS, ALDEHYDES, AND KETONES

Carl S. Carlson, Elizabeth, and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 19, 1947, Serial No. 792,860

5 Claims. (Cl. 202—57)

1. The method of separating alcohol with ketone components from a wide-boiling aqueous mixture of substantially water-soluble C_1–C_5 aliphatic oxygenated compounds comprising alcohol, aldehyde and ketone components which boil in aqueous solutions at temperatures in the range of 15° C. to 100° C., said components being difficult to separate by ordinary fractional distillation due to the tendency of the aldehyde and ketone components to form azeotropes and to react with an alcohol component to form acetals and ketals which consists in introducing the aqueous mixture into a fractional distillation zone, maintaining in the fractional distillation zone a pH of 7.1 to 11, distilling the alcohol and ketone components with azeotropic amounts of water overhead from said zone in which fractional condensate reflux is formed at boiling temperatures of 68° C. to 100° C. while simultaneously converting the aldehyde components to aldolization products and suppressing formation of acetals and ketals, and recovering from the distillation zone an overhead distillate containing ketone and alcohol components free of acetals and ketals and substantially lowered amounts of aldehyde.

2,614,073

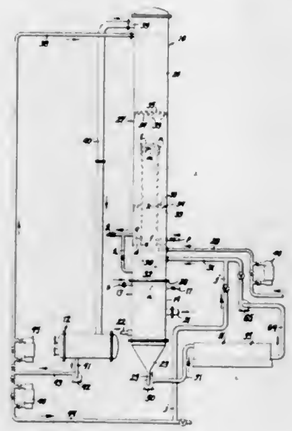
PROCESS OF DESOLVENTIZING MATERIALS BY DISTILLATION

Guy N. Harcourt, Buffalo, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa., a corporation of New Jersey

Application September 30, 1949, Serial No. 118,814

1 Claim. (Cl. 202—74)

The continuous process of desolventizing materials insoluble in a treating liquid and containing a volatile solvent different from said treating liquid, which comprises maintaining a boiling body of said treating liquid, passing said materials through said body in intimate contact with said boiling treating liquid, supplying heat to said body to maintain a boiling condition thereof and to evaporate said solvent at substantially the same rate as it is supplied with said materials, removing mixed treating liquid vapor and solvent vapor from said body and fractionally distilling said vapors to separate said solvent vapors from said treating liquid, returning said separated treating liquid to said body, condensing said separated solvent papers, applying as a reflux a part of said separated and condensed solvent papers to said mixed treating liquid vapor and solvent vapor being fractionally distilled, continuously withdrawing a portion of said body of treating liquid containing said materials in suspension separating said materials from said withdrawn portion of treating liquid in the form



of a filter cake through which said withdrawn portion of treating liquid is continuously passed to wash said filter cake, and continuously returning said portion of treating liquid after passing through said filter cake to said body for further evaporation of residual solvent contained therein and for repeated contacting with the materials to be desolventized.

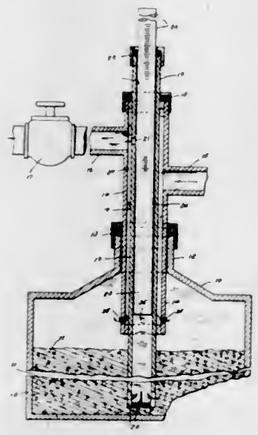
2,614,074

CHEMICAL SOLUTION FEEDER

Allen W. Frazier, Glen Ellen, Calif.

Application January 8, 1951, Serial No. 204,991

2 Claims. (Cl. 210—36)



1. An improved liquid chemical solution feeder comprising in combination, a container for holding said solution, a water supply conductor engaged in said container, said water supply conductor having a water inlet and outlet portion located outside of said container, and a water

passage chamber located within said container, the said water inlet, outlet and passage chamber portions being interconnected with each other, a tubular liquid conductor member concentrically and longitudinally located in said water chamber, the lower end of said tubular conductor member communicating with the liquid chemical solution in the lower portion of said container, a rod longitudinally adjustable located in said tubular conductor, a liquid chemical solution conductor passage located between the interior wall of said tubular conductor and the exterior wall of said rod, means for admitting continuously flowing liquid chemical solution between said rod and the interior of said tubular conductor to continuously flowing water in said water passage conductor in graduated amounts.

2,614,075

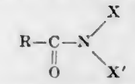
REACTION PRODUCT OF AN ALIPHATIC AMIDE AND A PHOSPHORUS SULFIDE AND LUBRICANTS CONTAINING THE SAME

John D. Bartleson, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 28, 1949, Serial No. 96,162. In Canada June 10, 1947

12 Claims. (Cl. 252—32.7)

7. A lubricating composition comprising a major amount of mineral lubricating oil and a minor amount sufficient to inhibit the deterioration of said oil in service of the reaction product of one mol of an aliphatic amide free of sulfurized radicals and having 12 to 20 carbon atoms in the molecule, said amide having the formula:



where R is an aliphatic hydrocarbon radical and X and X′ are selected from the group consisting of hydrogen and alkyl radicals of up to about 5 carbon atoms, and an amount within the range of 0.1 to 1.0 mol of a phosphorus sulfide, said amide and sulfide being reacted at a temperature within the range of 250 to 600° F. to produce an oil dispersible reaction product.

2,614,076

GREASE COMPOSITIONS

Robert J. Moore, Oakland, and Walfrid Saarni, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application September 16, 1949, Serial No. 116,216

13 Claims. (Cl. 252—33.6)

9. A grease composition comprising a lubricating oil base and a lithium soap of a hydroxy fatty acid having 10 to 24 carbon atoms, wherein the hydroxyl group is more than 9 carbon atoms removed from the carboxyl group, in an amount sufficient to thicken said oil to a grease consistency, and a second alkali metal soap of an organic monocarboxylic acid having 3 to 18 carbon atoms, said second soap bearing a substituent which is capable of forming a coordinate bond and which is less than 9 carbon atoms removed from said carboxyl group, the second soap being present in an amount between 0.1% and 0.25% by weight of the grease composition, the substituent being one selected from the group consisting of hydroxy, keto, amino, nitro, mercapto, thiol and sulfo groups.

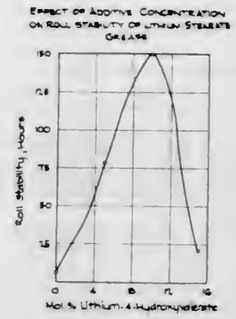
2,614,077

GREASE COMPOSITION

Robert J. Moore, Oakland, and Walfrid Saarni, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application December 27, 1949, Serial No. 135,124

9 Claims. (Cl. 252—33.6)



5. A grease composition containing only carboxylic acid soaps as gelling agents comprising a lubricating oil, 4 to 25% by weight of a mixture of lithium soap of an aliphatic monocarboxylic acid having 10 to 24 carbon atoms bearing no polar groups other than the carboxyl group, and an alkali metal soap of an aliphatic monocarboxylic acid having 3 to 18 carbon atoms bearing a hydrogen bonding substituent less than 9 carbon atoms removed from the carboxyl group, the second soap being present in an amount between 4 and 12 mole per cent of the total soap content, said hydrogen bonding substituent being one selected from the group consisting of hydroxy, keto, amino, nitro, mercapto, thiol and sulfo groups.

2,614,078

LUBRICATING COMPOSITIONS

Leonard R. Churchill, Cranford, N. J., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware

No Drawing. Application December 10, 1949, Serial No. 132,421

15 Claims. (Cl. 252—37.5)

1. In the preparation of lubricating compositions by blending a mineral oil with a sulfurized fatty oil that substantially increases the color characteristics of said mineral oil, the improvement which comprises subjecting said blend to controlled contact with a free-oxygen containing gas in the presence of a metal salt of an organic acid possessing activity as an oxidation catalyst for a period of time sufficient to substantially decrease the color characteristics imparted to said blend by said sulfurized fatty oil.

2,614,079

LUBRICATING GREASE

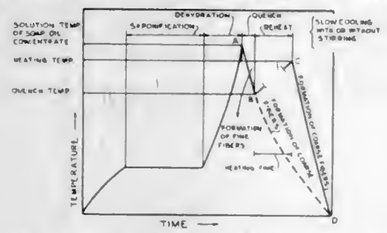
Robert J. Moore, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application July 18, 1949, Serial No. 105,381

12 Claims. (Cl. 252—39)

1. A grease composition comprising a major amount of a mineral lubricating oil having incorporated therein in an amount sufficient to

form a grease, an anisometric fibrous lithium soap, said fibers being a mixture of fine and



coarse fibers, respectively, in the ratio of from 3:1 to 1:3.

2,614,080

LUBRICATING OIL ADDITIVE MATERIALS

Lester Marshall Welch, Madison, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 22, 1950, Serial No. 175,473

12 Claims. (Cl. 252—59)

9. A lubricating composition consisting essentially of a major proportion of a waxy lubricating oil base having combined therein 0.01% to 10.0% by weight, based on the weight of the total composition, of an alkylated polystyrene which has been prepared by first reacting polystyrene having a molecular weight within a range of from 10,000 to 70,000 with an approximately equimolar proportion of a linear aliphatic monoolefin having from 12 to 22 carbon atoms in the presence of a Friedel-Crafts catalyst and reacting the product thus formed with approximately 2 molar proportions, based on the polystyrene of a linear aliphatic monoolefin having from 2 to 10 carbon atoms in the presence of a Friedel-Crafts catalyst to obtain a final product having a molecular weight within a range of from 7,000 to 20,000.

2,614,081

PICKLING BATH FOAMING AGENT

James W. Carroll, Philadelphia, Pa., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application March 26, 1948, Serial No. 17,370

9 Claims. (Cl. 252—151)

1. A composition for controlling the action of an acid bath for pickling metals comprising a foam-forming component containing as its essential ingredients a lignin sulfonate selected from the group consisting of alkali metal and alkaline earth metal lignin sulfonates and a finely divided clay, the lignin sulfonate being present in an amount at least two-thirds that of the clay, by weight.

2,614,082

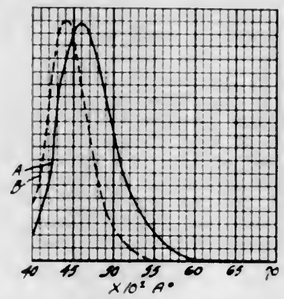
ZINC SULFIDE TYPE PHOSPHORS CONTAINING MAGNESIUM SULFIDE

Arthur L. J. Smith, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application November 30, 1949, Serial No. 130,176

8 Claims. (Cl. 252—301.6)

1. A phosphor comprising 99.5 to about 70 mol per cent zinc-cadmium sulfide consisting essentially of from 99.5 to 50 mol per cent zinc sulfide and 0.5 to 50 mol per cent cadmium sulfide, and from 0.5 to about 30 mol per cent magnesium sulfide in solid solution in the zinc-cadmium sulfide and including an activator selected from the class consisting of copper in an amount of 0.002 to 0.02 per cent by weight, silver in an amount of 0.0005 to 0.02 per cent by weight, gold in an amount of 0.0005 to 0.02 per cent by weight, manganese in an amount of 0.001 to 1.0 per cent



by weight, lead in an amount of 0.001 to 1.0 per cent by weight, bismuth in an amount of 0.001 to 0.1 per cent by weight, arsenic in an amount of 0.001 to 0.1 per cent by weight, and antimony in an amount of 0.001 to 0.1 per cent by weight.

2,614,083

METAL CHLORIDE SCREENING SMOKE MIXTURE

John C. Bailar, Jr. and Robert W. Parry, Urbana, Ill., assignors to the United States of America as represented by the Secretary of the Navy

No Drawing. Application October 13, 1944, Serial No. 558,610

1 Claim. (Cl. 252—305)

A smoke-producing composition consisting of about 8 per cent powdered aluminum, about 30 per cent zinc oxide, about 2.2 per cent sodium nitrate, and about 59.8 per cent the material prepared by heating to dryness at temperatures below 205° C. a mixture of equimolecular proportions of potassium chloride and hydrated ferric chloride.

2,614,084

ALKYL THIOPHENE SULFONATE WETTING AGENTS AND METHOD FOR MAKING SAME

Philip D. Caesar and Pharez G. Waldo, Wenonah, N. J., and Duncan J. Crowley, Oak Ridge, Tenn., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application March 10, 1947, Serial No. 733,725

6 Claims. (Cl. 252—352)

1. A method for preparing a wetting agent which comprises reacting 1 part by weight of an alkylthiophene having a total of about 4 to about 25 alkyl carbon atoms in addition to the carbon atoms of the thiophene nucleus and at least one nuclear hydrogen atom and about 1 to about 3 parts by weight of a sulfonating agent selected from the group consisting of concentrated sulfuric acid and oleum at a temperature below 70° C., quenching the reaction mixture in about 0.4 to about 1.2 parts by weight of water and neutralizing the quenched reaction mixture with a base selected from the group consisting of alkali metal hydroxides and ammonia.

5. A wetting agent consisting essentially of the alkali metal salt of the total quenched reaction product of the reaction of about 1 part by weight of tetiary-amylthiophene and about 2.5 parts by weight of concentrated sulfuric acid at a temperature below 50° C., said neutralized total reaction product in 0.5 weight per cent concentration of the dry solids of said neutralized total reaction product having a wetting time in the "Draves" test of about 29 seconds.

2,614,085

USE OF CATIONIC SURFACE ACTIVE AGENT IN PREPARATION OF ANIONIC RESIN IN BEAD FORM

Lennart A. Lundberg, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 17, 1949, Serial No. 77,068

8 Claims. (Cl. 260—2)

1. A process which comprises dispersing an aqueous syrup of a partially condensed resin capable of being cured to a water-insoluble anion active product in an inert, organic non-solvent liquid which has a boiling point of at least 70° C. and the density of which is substantially equivalent to that of said aqueous syrup, with mechanical agitation in the presence of a cationic surface active agent selected from the group consisting of quaternary ammonium salts containing an alkyl group of from 8–18 carbon atoms and hydroxyalkyl amine salts containing an alkyl group of from 8–18 carbon atoms, heating the dispersion until the temperature of gelation of the resin is attained, and finally curing the gelled resin obtained by heating, sufficient agitation being provided throughout the heating to prevent coagulation of the dispersion.

2. A process according to claim 1 in which the anion active product is a condensation product of a polyalkylene polyamine with epichlorohydrin.

2,614,086

DYE BATH COMPOSITION

George F. Jones, Glens Falls, N. Y., assignor to Imperial Paper and Color Corporation, Glens Falls, N. Y., a corporation of New York

No Drawing. Application March 9, 1950, Serial No. 148,750

7 Claims. (Cl. 260—15)

1. An aqueous pigmented dyeing composition for dyeing textile materials which comprises a dispersed pigment, water and a cationic resin, said resin being the product prepared by reacting together in the presence of heat and agitation melamine, formaldehyde, glycerine and an alkylol amine in the proportion of 1 mol of melamine, at least 7½ mols of formaldehyde, 1 to 4 mols of glycerine and from 1 to 3 mols of an alkylol amine until a homogeneous clear solution is obtained, acidifying the resulting product to a pH of from 0.5 to 2.0 and then neutralizing the product to a pH of from 6 to 7, the amount of resin solids varying from 1.4% at a 0.1% pigment concentration to 11.65% at a 2% pigment concentration.

2,614,087

PREPARATION OF POLYVINYL ACETATE EMULSIONS

Norris Turnbull, Grand Island, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 12, 1950, Serial No. 179,093

8 Claims. (Cl. 260—29.6)

1. The process which comprises dispersing vinyl acetate monomer in a 2 to 10% by weight aqueous solution of a hydrophilic dispersing agent which is a polyhydroxy, polymeric, film-forming substance substantially insoluble in water at temperatures below 50° C. but soluble in water at a temperature not lower than 50° C. to form a dispersion containing not more than 5% by weight of said monomer, subjecting said dispersion to polymerization in the presence of a peroxygen type catalyst, while dispersing therein further quantities of said monomer so as to maintain a monomer concentration not greater than 5% by weight when the polymer concentration is not over 20% by weight and not greater than 3% by weight when the polymer content has exceeded 20% by weight; continuing as above until the polymer content has reached 20 to 40% by weight, controlling the pH of the polymerization reaction mixture so that it is initially not less than 4 and finally not greater than 6 and adding to the reaction mixture before polymerization is 50% complete a primary, aliphatic alcohol having at least one chain of carbon atoms not less than 8 carbon atoms in length and corresponding to the formula C_xH_yOH, where $x=8$ to 20 and $y=$ one of the values selected from the group consisting of $2x+1$ and $2x-1$, in amount equal to 0.1 to 5% by weight of the total vinyl acetate polymerized, the concentration of said dispersing agent being sufficient to form a stable emulsion of the resulting polyvinyl acetate.

2,614,088

EMULSION POLYMERIZATION OF VINYL ACETATE

John E. Bristol, Niagara Falls, and Norris Turnbull, Grand Island, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 12, 1950, Serial No. 179,094

7 Claims. (Cl. 260—29.6)

1. The process which comprises dispersing vinyl acetate monomer in a 2 to 10% by weight aqueous solution of a hydrophilic dispersing agent which is a polyhydroxy, polymeric, film-forming substance substantially insoluble in water at temperatures below 50° C. but soluble in water at a temperature not lower than 50° C. to form a dispersion containing not more than 5% by weight of said monomer, subjecting said dispersion to polymerization in the presence of a peroxygen type catalyst, while dispersing therein further quantities of said monomer so as to maintain a monomer concentration not greater than 5% by weight when the polymer concentration is not over 20% by weight and not greater than 3% by weight when the polymer content has exceeded 20% by weight; continuing as above until the polymer content has reached 20 to 40% by weight and controlling the pH of the polymerization reaction mixture so that it is initially not less than 4 and finally not greater than 6, the concentration of said dispersing agent being sufficient to form a stable dispersion of the resulting polymer.

2,614,089

PREPARATION OF SYNTHETIC POLYMERIC MATERIALS

Stuart A. Harrison, Stow, Ohio, and Walter E. Brown, Cambridge, Mass., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 23, 1946, Serial No. 671,897

7 Claims. (Cl. 260—29.7)

5. The method which comprises preparing an aqueous dispersion comprising dispersed solid particles below 0.4 micron in average diameter of a saturated resinous polymer of monomeric material containing a single carbon-to-carbon unsaturated linkage which is an olefinic double bond and is connected to a methylene group, adding to said dispersion a monomeric mixture polymerizable to form a rubbery copolymer and containing from 50 to 90% by weight of butadiene-1,3 and the remainder of acrylonitrile, and polymerizing the said monomeric mixture in the presence of the said particles of saturated resinous polymer whereby formation of rubbery copolyous dispersion in which the saturated resinous mer occurs on said particles to produce an aque-

polymer and the rubbery copolymer formed by the polymerization are intimately combined in the same individual particles, the said monomeric mixture being added and polymerized in a proportion sufficient to form, together with the said resinous polymer, a mixed polymeric product which when separated from the dispersion is a soft rubbery material vulcanizable with sulfur to a tensile strength above 1,000 lbs./sq. in.

2,614,090

STABILIZATION OF VINYLIDENE CYANIDE POLYMER SOLUTIONS

Seward J. Averill, Boston, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 15, 1949, Serial No. 110,460

6 Claims. (Cl. 260—32.6)

4. A composition comprising a solution of polyvinylidene cyanide in dimethyl formamide and, as a stabilizer for said solution, from 0.1 to 5% by weight of an anhydride of the formula

$$R_1(CO)_2O$$

wherein R_1 represents saturated aliphatic hydrocarbon structure containing from 2 to 8 carbon atoms said composition being characterized by possessing a viscosity on preparation and after 40 hours which is substantially higher than that of a solution of a polymer of vinylidene cyanide consisting solely of polymer and dimethyl formamide.

2,614,091

FRICTION ELEMENTS FROM THE REACTION PRODUCT OF MELAMINE, FORMALDEHYDE AND TOLUENE SULFONAMIDE

Edmund S. Bauer, Jr., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 26, 1948, Serial No. 29,409

1 Claim. (Cl. 260—39)

A molded friction facing element comprising mineral fibers bonded with a completely cured bonding material capable of plastic flow prior to curing, said bonding material comprising an internally plasticized condensation product of 1 mol of melamine, with from 1–6 mols of formaldehyde, said internal plasticization having been obtained by co-condensing 0.5 mol of toluene sulfonamide with said melamine and said formaldehyde.

2,614,092

INFUSIBLE COPOLYMERIC VINYLIDENE CHLORIDE COMPOSITION

John H. Reilly, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 20, 1945, Serial No. 611,703

6 Claims. (Cl. 260—41)

1. A thermoplastic composition, capable of being shaped and cured thermally to provide infusible, strong articles, consisting essentially of: a normally thermoplastic vinylidene chloride acrylonitrile copolymer consisting of from 82 to 88 per cent vinylidene chloride and complementarily between 12 and 18 per cent of copolymerized acrylonitrile, between 0.1 and 2.0 parts by weight of a plasticizer per part of said copolymer, up to 1.0 part of a filler per part of copolymer, and between 0.06 and 0.01 part of a basic nitrogen compound, having a dissociation constant between 10^{-10} and 10^{-3}, per part of copolymer.

2,614,093

PREPARATION OF SYNTHETIC POLYMERIC MATERIALS

George L. Wheelock, Coventry Township, Summit County, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 23, 1946, Serial No. 671,895

10 Claims. (Cl. 260—45.5)

1. The method of preparing rubbery vulcanizable polymeric material which comprises intimately admixing and co-coagulating two separately prepared aqueous dispersions, particles in each of which possess an average diameter below 0.5 micron, one of which is an aqueous dispersion of a rubbery copolymer of 50 to 90% by weight of butadiene-1,3 and the remainder of a copolymerizable compound containing a single olefinic double bond and selected from the class consisting of styrene and acrylonitrile, and the other of which is an aqueous dispersion of a tough, solid, resinous polymeric material of a molecular weight above 50,000 and selected from the class consisting of polystyrene, copolymers of styrene with a lesser amount of a copolymerizable compound containing as its sole unsaturation a single olefinic double bond, and copolymers of 80 to 99% by weight of styrene and the remainder of a polymerizable material containing more than one olefinic double bond and selected from the class consisting of butadiene-1,3 and divinyl benzene, the said two dispersions being present in such proportions as to provide a mixture in which the amount of the said resinous polymeric material is from 5 to 80% by weight of that of the said rubbery copolymer.

2,614,094

PLASTICIZED VINYL RESIN COMPOSITIONS AND METHOD OF PREPARING THE SAME

George L. Wheelock, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application November 14, 1946, Serial No. 709,774

6 Claims. (Cl. 260—45.5)

1. A thermoplastic plasticized vinyl resin composition comprising from 10 to 95 parts by weight of a vinyl resin, said vinyl resin being a polymer of a monomeric material in which each monomer contains a single olefinic double bond and which is composed predominantly of vinyl chloride, and 5 to 90 parts by weight of a sole polymeric plasticizer therefor consisting of a polymeric product having a Mooney viscosity, as determined by means of the Mooney viscosimeter using the 1.5'' rotor after 4 minutes at 212° F., below 35, and resulting from the polymerization of a monomeric mixture containing from 50 to 80% by weight of a butadiene-1,3 hydrocarbon and the remainder of a monomer selected from the class consisting of acrylonitrile, methacrylonitrile, ethacrylonitrile and chloroacrylonitrile, the minimum molecular weight of said polymeric product being that of a butadiene-1,3 acrylonitrile copolymer obtained by polymerizing to substantially complete conversion at 30° C. a polymerizable mixture of:

Material:	Parts by weight
Butadiene-1,3	66.7
Acrylonitrile	33.3
Water	191.8
Fatty acid soap flakes	5.0
Sodium salt of an alkaryl sulfonic acid	1.0
Potassium persulfate	0.3
Tertiary-dodecyl mercaptan	5.0

2,614,095

HEAT STABILIZATION OF A CHLORINE CONTAINING POLYMER WITH A MERCAPTO ACID AMIDE

Thomas H. Shelley, Jr., Spottswood, N. J., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 15, 1951, Serial No. 231,890

10 Claims. (Cl. 260—45.9)

1. A composition of improved stability to heat comprising a polymer of a chloroethylene having from 1 to 2 chlorine atoms attached to one only of the carbon atoms, and an N-hydrocarbon substituted amide of a mercapto-substituted aliphatic monocarboxylic acid.

2,614,096

CONDENSATION PRODUCTS OF PHENOL, FORMALDEHYDE, AND UNSUBSTITUTED MONONUCLEAR DIHYDRIC PHENOLS

Raymond J. Spahr, Cranbury, N. J., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application June 16, 1949, Serial No. 99,582

11 Claims. (Cl. 260—54)

1. A water soluble resin composition produced by refluxing a mixture of one mol of phenol with 1.3 to 2.5 mols of formaldehyde in an aqueous solution containing 30 to 60% formaldehyde by weight at a pH of 7.5 to 8.8 in the presence of a non-volatile alkali catalyst until the reaction product contains less than 2% of free formaldehyde and tolerates the addition of from 0.1 to 5 volumes of water without causing the resulting solution to become cloudy at 70° F. and refluxing the resulting product at a temperature not exceeding 100° C. with 10 to 150 parts of an unsubstituted mononuclear dihydric phenol for each 100 parts of said phenol until the condensation product has a viscosity of from 0.5 poise to 1.65 poises at a solids content between 40 and 60%.

2,614,097

METALLO-THIOPLASTS

Lev Akobjanoff, St. Louis, Mo.

No Drawing. Application November 16, 1951, Serial No. 256,841

13 Claims. (Cl. 260—79.1)

1. A polymeric substance having the repeating unit

$$(-C \ldots C-Z'-B-Z''_b)$$
$$Z_a$$

in which —C . . . C— represents structure selected from the group consisting of two adjacent carbon atoms connected by a valence bond and two carbon atoms separated by and joined to intervening structure; Z, Z' and Z'' are chalcogens of atomic number greater than 8; B is a non-reactive nucleus chosen from the group of metals consisting of: Hg, Mo, Sb, Sn, V, W, Zn; and wherein a is 0 and b is 1 when the valence of B is 2, a is 0 and b is 2 when the valence of B is 3, a is 1 and b is 1 when the valence of B is 4, a is 1 and b is 2 when the valence of B is 5, a is 2 and b is 1 when the valence of B is 6.

2,614,098

EMULSION POLYMERIZATION OF A CONJUGATED DIENE WITH A HEAVY HYDROPEROXIDE AND A HYPOSULFITE

Carl A. Uraneck, Borger, and Spencer H. Landes, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application November 25, 1949, Serial No. 129,518

8 Claims. (Cl. 260—84.3)

1. In the production of synthetic rubber by polymerization of a monomeric material comprising a major portion of 1,3-butadiene and a minor portion of styrene while dispersed in an aqueous medium, the improvement which comprises polymerizing said monomeric material in the presence of a catalyst composition consisting of 0.5 to 5 millimols each of diisopropylbenzene hydroperoxide and of sodium hyposulfite, per 100 parts by weight of said monomeric material, with a molecular ratio of said hydroperoxide to said hyposulfite between 1:0.25 and 1:2.5, at a polymerization temperature between 10 and −40° C.

2,614,099

ANION EXCHANGE RESINS

William C. Bauman and Robert McKellar, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 29, 1948, Serial No. 68,035

12 Claims. (Cl. 260—88.1)

1. A water-insoluble resinous composition suitable for the removal of anions from fluids, which comprises the reaction product of (1) a benzene-insoluble copolymer containing in chemically combined form from 0.5 to 40 per cent by weight of a polyvinyl-aromatic hydrocarbon and from 99.5 to 60 per cent of a monovinyl-aromatic compound of the class consisting of monovinyl-aromatic hydrocarbons having the vinyl radical directly attached to a carbon atom of the aromatic nucleus and nuclear halogenated derivatives thereof, which copolymer contains an average of from 0.2 to 1.2 halomethyl groups per aromatic nucleus in the copolymer, with (2) a tertiary amine selected from the group consisting of the tertiary mono- and di-alkyl N-substituted alkanol and alkanediol amines, in amount such that there is present in the reaction mixture at least one mole of the tertiary amine for each halomethyl group in the copolymer.

2,614,100

STABILIZED ACTIVATORS AND THEIR USE IN EMULSION POLYMERIZATION

Carl A. Uraneck, Borger, Charles M. Tucker, Phillips, and Willard M. St. John, Jr., Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application December 30, 1948, Serial No. 68,422

23 Claims. (Cl. 260—94.3)

1. A process for polymerizing an organic monomeric material comprising an unsaturated organic compound containing a $CH_2{=}C<$ group while dispersed in an aqueous medium, which comprises polymerizing such a monomeric material while dispersed in an aqueous medium in the presence of an oxidant and in the presence of an activator composition prepared by dissolving in water a salt of a multivalent metal capable of existing in two valence states under such conditions that it is present at least in part in a lower

valence state together with a pyrophosphate of a monovalent cation selected from the class consisting of alkali metals and ammonium and with a reducing salt of a monovalent cation selected from the class consisting of alkali metals and ammonium and of an inorganic anion selected from the class consisting of hypophosphite, thiosulfate, sulfite, bisulfite and hyposulfite, heating said solution to 40 to 100° C. for 5 to 90 minutes and subsequently cooling said solution, and adding the cool solution to said aqueous dispersion, the amount of said solution added and the amount of said constituents present in said dispersion being such that, per 100 parts by weight of said monomeric material, there is added 0.01 to 1 millimol part of each of said multivalent metal and pyrophosphate and 0.02 to 1 part of said reducing salt, and said oxidant is present in an amount in excess of one molecular equivalent of said multivalent metal.

2,614,101

ACTIVATOR COMPOSITIONS AND THEIR USE IN EMULSION POLYMERIZATION

Carl A. Uraneck and Willard M. St. John, Borger, and Charles F. Fryling and James E. Troyan, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application December 31, 1948, Serial No. 68,720
20 Claims. (Cl. 260—94.3)

1. A process for polymerizing an organic monomeric material comprising an unsaturated organic compound containing a $CH_2=C<$ group while dispersed in an aqueous medium, which comprises polymerizing such a monomeric material while dispersed in an aqueous medium in the presence of an oxidant and in the presence of an activator composition prepared by dissolving in water a salt of a multivalent metal capable of existing in two valence states under such conditions that it is present at least in part in a lower valence state together with a pyrophosphate of a monovalent cation selected from the class consisting of alkali metals and ammonium and with a different salt of a monovalent cation selected from the class consisting of alkali metals and ammonium and an anion which is inert with respect to said multivalent metal, heating said solution out of contact with free oxygen to a temperature between 40 and 100° C. for 5 to 90 minutes and subsequently cooling the resulting solution, and so incorporating said solution in said polymerization along with said oxidant that there is added, based upon 100 parts by weight of said monomeric material, 0.01 to 3 millimol parts of said multivalent metal, pyrophosphate and oxidant and 0.1 to 5 parts of said different salt.

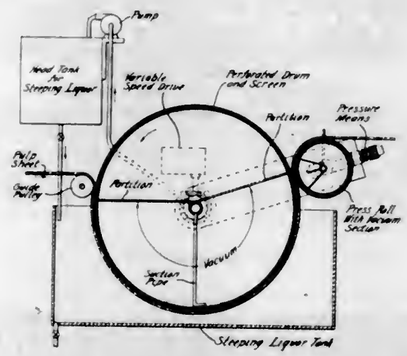
2,614,102

STEEPING OF CELLULOSE

Paul Henry Schlosser and Reid Logan Mitchell, Shelton, Wash., assignors to Rayonier Incorporated, Shelton, Wash., a corporation of Delaware

Application February 23, 1950, Serial No. 145,676
1 Claim. (Cl. 260—233)

In the treatment of dry cellulose with caustic soda steeping liquor to form alkali cellulose followed by removal of excess liquor, the improvement which comprises passing a dry sheet of cellulose pulp of indefinite length continuously through an operation in which the steeping liquor is applied to one side of the sheet and a reduced pressure on the opposite side to impregnate the sheet with the liquor, subjecting the impregnated sheet to mechanical pressure and simultaneously applying to the area of the sheet where the mechanical pressure is applied a reduced pressure to remove by vacuum excess liquor, leaving in the pulp a uniformly distributed amount of sodium hydroxide.



2,614,103

REACTION PRODUCT OF STARCH WITH GLYCOL - ALKYLOLAMINE CONDENSATES FOR THE SIZING OF TEXTILE WARP STRANDS

Bernhard G. Zimmerman, Guilford College, N. C.

No Drawing. Application February 17, 1949, Serial No. 77,074
7 Claims. (Cl. 260—233.3)

1. A reaction product for the sizing of textile warp strands to substantially increase weaving efficiency and to prevent substantial dusting which comprises the product formed by reacting a glycol having at least three carbon atoms in the molecule and having the hydroxyl groups thereof adjacent to each other in the carbon chain with diethanolamine at a temperature of from 150° C. to 250° C. and for a reaction period of from four to twenty hours, said reaction product being combined with starch in the presence of steam to form a viscous liquid reaction product adapted to dry when applied to warp strands in a tough elastic film.

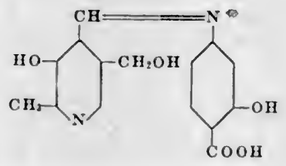
2,614,104

DERIVATIVES OF PARA-AMINO SALICYLIC ACID

Walter A. Winsten, Forest Hills, N. Y., assignor to Food Research Laboratories, Inc., Long Island City, N. Y., a corporation of New York

No Drawing. Application May 26, 1950, Serial No. 164,599
1 Claim. (Cl. 260—240)

As a new composition of matter, pyridoxylidene para-amino salicylic acid having the formula:



2,614,105

PREPARATION OF 8-CHLORO-THEOPHYLLINE

August H. Homeyer, Webster Groves, and George B. De La Mater, St. Louis, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri

No Drawing. Application May 23, 1949, Serial No. 94,937
14 Claims. (Cl. 260—254)

1. The method of forming 8-chlorotheophylline which comprises gradually introducing chlorine into a mixture of theophylline and a substantially inert reaction medium while maintaining the temperature less than approximately 80° C., the ratio of chlorine to theophylline being approximately equimolecular.

2,614,106

α,α-N-TRIMETHYL SUCCINIMIDE

Roger W. Stoughton, St. Louis, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri

No Drawing. Application September 22, 1951, Serial No. 247,905
1 Claim. (Cl. 260—326.5)

α,α-N-trimethylsuccinimide.

2,614,107

PROCESS FOR THE REDUCTION OF CARBONYL COMPOUNDS

Irving Wender and Milton Orchin, Pittsburgh, Pa., assignors to the United States of America as represented by the Secretary of the Interior

No Drawing. Application November 1, 1949, Serial No. 124,937
11 Claims. (Cl. 260—332.3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for the reduction of a carbonyl compound containing no olefinic unsaturation other than in a position α-β to the carbonyl group and having the formula



where R_1 is a monovalent organic radical selected from the group consisting of alkyl, aryl, cycloaliphatic, and heterocyclic radicals, and R_2 is selected from the class consisting of hydrogen and monovalent organic radicals selected from the group consisting of alkyl, aryl, cycloaliphatic, and heterocyclic radicals, comprising the step of introducing into a reaction zone said carbonyl compound and hydrogen as the sole essential reactants, together with a catalyst consisting essentially of carbonyl of a metal of the eighth periodic group, maintaining said reaction zone at a temperature of from 150° to 300° C., and under a pressure of from 500 to 60,000 lbs./sq.in., while maintaining a concentration of carbon monoxide in said reaction zone such that the molar ratio of hydrogen to carbon monoxide lies in the range of from 0.5:1 to 10:1, and such that the concentration of carbon monoxide in said reaction zone is sufficient under the reaction conditions to insure at all times the presence of said metal carbonyl catalyst in said reaction zone.

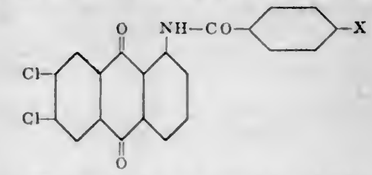
2,614,108

1-AMIDO-6.7 DICHLORO ANTHRAQUINONE DYESTUFFS

Walter Jenny, Reinach, and Walter Kern, Sissach, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application July 17, 1950, Serial No. 174,365. In Switzerland July 22, 1949
6 Claims. (Cl. 260—372)

1. A vat dyestuff of the general formula



wherein X stands for a member of the group consisting of halogen and a phenylsulfone group.

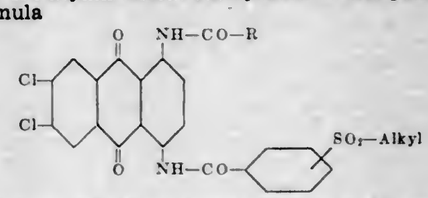
2,614,109

ALKYL SULFONE DERIVATIVES OF 1:4-DIAROYLAMINO 6:7-DICHLORO ANTHRAQUINONES

Walter Jenny, Reinach, and Walter Kern, Sissach, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application July 17, 1950, Serial No. 174,366. In Switzerland July 22, 1949
7 Claims. (Cl. 260—372)

1. An asymmetrical vat dyestuff of the general formula



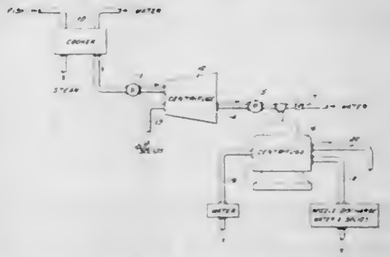
wherein R stands for a mononuclear aryl radical.

2,614,110

RECOVERY OF OIL AND MEAL FROM OIL-BEARING MARINE LIFE

Walter C. Davis, Tredyffrin Township, Chester County, Pa., assignor to The Sharples Corporation, a corporation of Delaware

Application June 6, 1947, Serial No. 752,916
10 Claims. (Cl. 260—412.1)



1. A process for removing fish oil from fish solids, comprising subjecting an aqueous slurry of said fish solids to a centrifugal force sufficient to separate solids from liquids, subjecting said separated solids to a centrifugal force sufficient to separate residual liquids therefrom, combining said separated residual liquids with said first-mentioned separated liquids, thereafter sub-

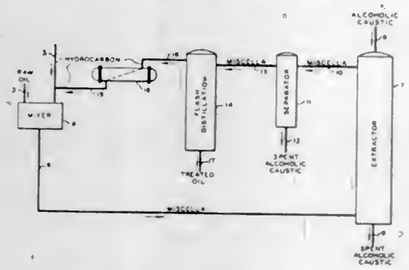
jecting said separated liquids to a centrifugal force sufficient to separate said liquids into water and oil phases, and removing said separated oil and water phases in separate streams from said last centrifuging step.

2,614,111

PROCESS OF REFINING GLYCERIDE OIL IN A LIQUID PARAFFINIC SOLVENT WITH A CONCENTRATED ALCOHOLIC ALKALI METAL HYDROXIDE SOLUTION

Arnold L. Ayers, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application January 4, 1949, Serial No. 69,104
14 Claims. (Cl. 260—426)



5. The process of refining a glyceride oil which comprises intimately contacting a miscella of said oil in a liquid paraffinic solvent with a concentrated alcoholic alkali metal hydroxide solution consisting essentially of 75–100 percent alcohol, alkali metal hydroxide, and water whenever the concentration of the alcohol employed is less than 100 percent, for a period of time sufficient to neutralize the free fatty acids and to extract the alcohol-soluble bodies, separating the spent alcoholic caustic solution from the miscella and separating the paraffinic solvent from the refined oil.

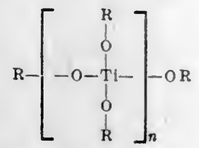
2,614,112

POLYMERIC TITANIUM MIXED ESTERS

Thomas Boyd, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 30, 1951, Serial No. 208,667
13 Claims. (Cl. 260—429)

7. A straight-chain polymeric mixed ester of orthotitanic acid corresponding to the general formula:



wherein R represents ester groups derived from compounds of the group consisting of aliphatic alcohols and phenols, at least one of said ester groups being derived from a compound taken from the group consisting of lower aliphatic alcohols and phenols containing from one to eight carbon atoms, at least one other of said ester groups being derived from a compound taken from the group consisting of higher aliphatic alcohols and phenols containing more than eight carbon atoms, and wherein n is a whole number greater than one.

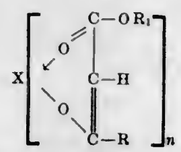
2,614,113

URANIUM PURIFICATION AS COMPLEXES OF ESTERS OF TRIFLUOROACETOACETIC ACID

Hermann I. Schlesinger, Chicago, Ill., and Herbert C. Brown, Detroit, Mich., assignors to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application June 5, 1946, Serial No. 674,650
12 Claims. (Cl. 260—429)

1. A complex of uranium having the general structure



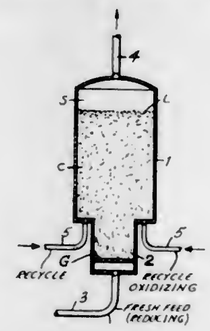
wherein X is selected from the group consisting of UO_2 and uranium, wherein n is 2 when X is UO_2 and n is 4 when X is uranium and wherein R_1 is a member from the group consisting of alkyl, cycloalkyl and aralkyl radicals and R is a trifluoromethyl radical.

2,614,114

HYDROCARBON SYNTHESIS

Robert W. Krebs, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 26, 1948, Serial No. 35,359
3 Claims. (Cl. 260—449.6)



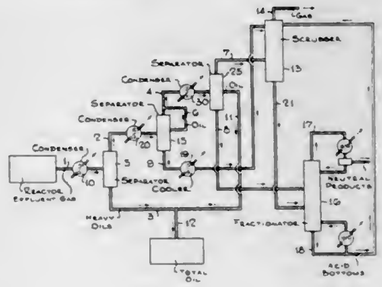
1. In a hydrocarbon synthesis process in which a fluidized bed of powdered iron catalyst in a synthesis reaction zone is contacted with feed gas containing CO and H_2 under synthesis conditions of temperature, pressure, and contact time, and wherein said catalyst tends to become at least partially oxidized, the improvement resulting in maintaining the catalyst in an active state which comprises establishing an upper portion of said zone of greater cross-section than a lower portion of said zone in the same confined space, said upper portion confining a greater fraction of said bed than said lower portion, said upper and said lower portion of said zone being in open communication and forming a single unitary uninterrupted zone, said lower portion being further characterized in that it has a diameter less than one-half of said upper portion and has a height greater than four-tenths that of said upper portion, contacting said bed in said upper portion with a gasiform material comprising hydrogen and oxides of carbon in proportions to give maximum conversion of total gas feed to valuable hydrocarbons, and whereby said catalyst becomes at least partially oxidized, and contacting said bed in said lower portion with a gas consisting predominantly of H_2 and CO whereby said oxidized catalyst is reduced to the extent that its oxygen content is below about 20%.

2,614,115

MULTISTAGE PROCESS FOR CONDENSING HYDROCARBON SYNTHESIS PRODUCTS

William E. Catterall, Elizabeth, and Ernest O. Ohsol, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 22, 1948, Serial No. 50,647
1 Claim. (Cl. 260—450)



A process for separating and recovering neutral low molecular weight oxygenated products which are more volatile than water in the presence of water present in a gaseous mixture of uncondensible gases, hydrocarbons, fatty acids, water and the like in an effluent from an organic synthesis reaction, wherein hydrogen and carbon monoxide are the reactants, which comprises the steps of cooling and condensing the gaseous mixture in a first cooling step at a temperature above the dew-point of water to condense higher molecular weight hydrocarbons; cooling and condensing a residual uncondensed gaseous mixture from the first cooling step in at least one stage in a second cooling step at a temperature at which a major proportion of the water and fatty acids are condensed but only a minor proportion of the neutral low molecular weight oxygenated products are condensed; cooling and condensing a residual uncondensed gaseous mixture from the second cooling step in a third cooling step at a temperature lower than in the second cooling step at which lower temperature the remaining water is condensed; scrubbing countercurrently residual uncondensed gaseous mixture from the third cooling step with the predominantly water and fatty acids condensate from the second cooling step as a scrubbing medium in a scrubbing zone to recover a substantial proportion of the neutral low molecular weight oxygenated products contained in this gaseous mixture; discharging liquid bottoms containing the neutral low molecular weight oxygenated products from the scrubbing step to a distillation zone; discharging the resulting condensate from the third cooling and condensing step to the distillation zone and distilling the neutral low molecular weight oxygenated products from a resulting mixture in the distillation zone and recycling a residual liquid bottoms mixture containing fatty acids from the distillation step to an upper portion of the scrubbing zone.

2,614,116

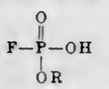
PRODUCTION OF HYDROCARBON-OXY PHOSPHORYL MONOFLUORIDES

Willy Lange, Cincinnati, Ohio, and Archie Hood, Tulsa, Okla., assignors to Ozark-Mahoning Company, Tulsa, Okla., a corporation of Delaware

No Drawing. Application February 23, 1949, Serial No. 78,018
7 Claims. (Cl. 260—461)

1. The method of producing hydrocarbon-oxy phosphoryl monofluorides which comprises mixing anhydrous hydrogen fluoride and a polyphosphoric acid ester in which at least one oxygen atom is bonded to two phosphorus atoms, each said phosphorus atom being bonded in turn through at least one oxygen atom to the corresponding number of hydrocarbon groups which are free of aliphatic unsaturation, and after the reaction has proceeded to substantial completion fractionating the reaction products to thereby substantially isolate the hydrocarbon-oxy phosphoryl monofluorides.

7. A composition of matter comprising in substantial concentration a mono-hydrocarbon-oxy monohydroxy phosphoryl fluoride having substantially the structural formula:



wherein R represents an organic group which is free of aliphatic unsaturation.

2,614,117

STABILIZATION OF MONOMERIC 1,1-DICYANO ETHYLENE

Harry Gilbert and Alan E. Ardis, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 4, 1949, Serial No. 79,714
5 Claims. (Cl. 260—465.8)

4. A composition comprising 1,1-dicyano ethylene stabilized with a compound selected from the class consisting of pyrogallol, picric acid and trinitro benzene.

2,614,118

STABILIZATION OF MONOMERIC 1,1-DICYANO ETHYLENE

Floyd F. Miller, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 1, 1949, Serial No. 108,061
4 Claims. (Cl. 260—465.8)

1. A stabilized composition consisting essentially of monomeric 1,1-dicyano ethylene dissolved in a liquid aromatic hydrocarbon in which all the unsaturation is present in a benzene ring.

2,614,119

INHIBITION OF POLYMERIZATION OF ACRYLONITRILE

William T. Nichols, Kirkwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 9, 1951, Serial No. 220,141
4 Claims. (Cl. 260—465.9)

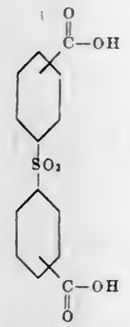
1. The method of inhibiting the polymerization of acrylonitrile which comprises incorporating therewith from about 0.5 to 1000 parts per million of hydroquinone monobenzyl ether.

2,614,120
β-HYDROXYALKYL DIESTERS OF DICARBOXYDIPHENYL SULFONES AND METHOD OF PREPARING SAME

John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 10, 1950, Serial No. 143,594
10 Claims. (Cl. 260—470)

2. A process for preparing a β-hydroxyalkyl diester of a dicarboxydiphenyl sulfone by reacting a dicarboxydiphenyl sulfone having the following formula:



wherein each carboxyl group is located in a position selected from among the meta and para positions, with an alkylene oxide selected from the group consisting of ethylene, 1,2-propylene, 1,2-butylene and 2,3-butylene oxide in the presence of a tertiary amine selected from among the group consisting of trialkylamines, dialkylanilines, pyridine and quinoline, and in a substantially unreactive liquid medium, at a temperature of from 90° to 120° C.

2,614,121
PROCESS FOR MAKING INTERMEDIATES FOR PRODUCING BASIC COMPOUNDS

Charles C. Price, South Bend, Ind., and Royston M. Roberts, Austin, Tex., assignors to the United States of America as represented by the Secretary of the Army

No Drawing. Original application March 1, 1946, Serial No. 651,432. Divided and this application March 10, 1950, Serial No. 149,014
4 Claims. (Cl. 260—471)

1. A method of producing arylaminomethylene malonic esters selected from the group consisting of compounds of the type

$$ArNH—CH=C(COOR)_2$$

and their isomeric anils $ArN=CH—CH(COOR)_2$, which comprises heating a reaction mixture containing approximately equimolar proportions of a malonc ester of the type $CH_2(COOR)_2$ and a diarylformamidine of the type

$$ArNH—CH=NHAr$$

to a temperature between about 100° C. to about 125° C. for a period of about two hours to about six hours, thereby producing a substantial proportion of said arylaminomethylene malonic ester but insufficient to produce a substantial proportion of the amide-ester derivative of said malonic ester; the R group in the foregoing formulae representing a lower alkyl radical and the Ar group a monocyclic aryl radical.

2,614,122
PREPARATION OF DICARBOXYLIC ACIDS FROM SATURATED MONOCARBOXYLIC ACIDS

Louis A. Mikeska, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 23, 1951, Serial No. 227,940
4 Claims. (Cl. 260—531)

1. A process for preparing dicarboxylic acid and monocarboxylic acid products from a monohydroxy stearic acid, in which the hydroxyl group is linked to a non-terminal, secondary carbon atom and segregating said acid products, which comprises reacting the monohydroxy stearic acid with an alkaline metal hydroxide in liquid phase in the presence of a saturated petroleum hydrocarbon solvent boiling above about 320° C. at temperatures in the range of about 230° C. to 320° C., dissolving the resulting liquid reaction product in an aqueous solution, acidifying the resulting aqueous solution to separate therefrom the acid products as an oil phase and separating from said acid products an extract solution of monocarboxylic acid products soluble in petroleum ether.

2,614,123
1-ACETYL-6-OXO-8a-METHYL-3,4,6,7,8,8a-HEXAHYDRONAPHTHALENE

Melvin S. Newman and Sambasiva Swaminathan, Columbus, Ohio, assignors to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio

No Drawing. Application August 21, 1951, Serial No. 242,982
1 Claim. (Cl. 260—586)

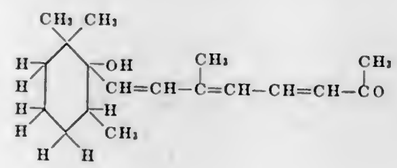
A composition of matter consisting of 1-acetyl-6-oxo-8α - methyl - 3,4,6,7,8,8α - hexahydronaphthalene.

2,614,124
PREPARATION OF NEW UNSATURATED KETONE

Ronald Major Evans, Ickenham, and Patrick Gadsden Jones, London, England, assignors to Glaxo Laboratories Limited, Greenford, England, a British company

No Drawing. Application December 4, 1951, Serial No. 259,894. In Great Britain December 19, 1950
7 Claims. (Cl. 260—586)

1. As a new compound, 6-methyl-8-(1'-hydroxy - 2':6':6' - trimethylcyclohexyl) - octa - 3:5:7-trien-2-one, represented by the formula



2,614,125
OLEFIN OXIDATION PROCESS EMPLOYING CUPROUS OXIDE CATALYSTS

Kenneth D. Detling, Berkeley, and Thurston Skei, Lafayette, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

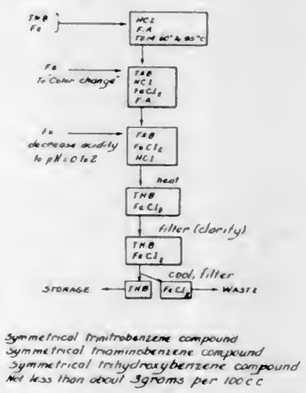
No Drawing. Application January 10, 1949, Serial No. 70,144
10 Claims. (Cl. 260—604)

1. In a continuous process for the oxidation of propylene to acrolein by passing a gaseous mixture comprising propylene, oxygen, and an inert gas into contact with a solid catalyst consisting essentially of cuprous oxide at a pressure between about atmospheric pressure and about 300 pounds per square inch (gauge) and at a temperature within the range of from about 300° C. to about 500° C., adjusting and maintaining the oxygen content of said gaseous mixture at a concentration not greater than about 10 per cent by volume, periodically and for brief intervals of time, and prior to material deposition of carbonaceous, tarry, or like materials on the catalyst, replacing the flow of said gaseous mixture to the catalyst by flow of a gaseous mixture of oxygen and inert gas containing oxygen in a concentration not greater than about 10 per cent by volume while maintaining the temperature within said range of from about 300° C. to about 500° C., and after each interval of flow to the catalyst of said gaseous mixture of oxygen and inert gas restoring the flow of the catalyst of said gaseous mixture containing propylene.

2,614,126
PREPARATION OF SYMMETRICAL TRIHYDROXYBENZENE COMPOUNDS

John Krueger, West Caldwell, N. J., assignor to The Edwal Laboratories, Inc., Ringwood, Ill., a corporation of Illinois

Application February 11, 1950, Serial No. 143,828
17 Claims. (Cl. 260—621)



1. In a method of preparing symmetrical trihydroxybenzene compounds, the steps which comprise adding particles of iron gradually to a mixture of an at least 28% aqueous solution of a strong mineral acid which is non-oxidizing under the conditions of the reaction and a symmetrical trinitrobenzene compound, heating the mixture for at least an hour at a temperature of about 60 degrees C. to about 95 degrees C., said reactants being present in molal proportions of from 10 to 22 mols of iron and from 30 to 60 mols of said mineral acid for each mol of symmetrical trinitrobenzene compound, said reaction serving to reduce the trinitrobenzene compound and convert the major part of the reacted iron to the ferrous salt of said mineral acid which remains in solution, the proportions of the aforesaid reactants being such that the free acid in the reaction mixture is maintained at not less than about 3 grams per 100 cc. until reduction is essentially completed, then adjusting the acidity to a pH in the range of 0.0 to 2, heating to hydrolyze the reduction product, and recovering the symmetrical trihydroxybenzene compound from the hydrolysate.

2,614,127
MANUFACTURE OF HYDROQUINONE

Jonas Kamlet, New York, N. Y., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

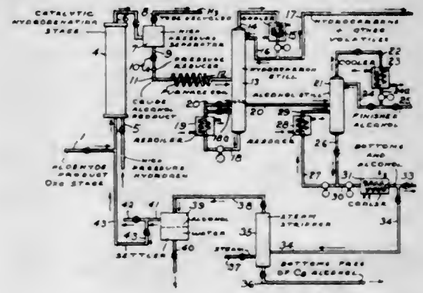
No Drawing. Application September 16, 1950, Serial No. 185,321
4 Claims. (Cl. 260—621)

1. A process for the reduction of p-benzoquinone to hydroquinone which comprises effecting said reduction with finely-divided metallic iron in an aqueous medium in the presence of a water-soluble salt of sulfurous acid.

2,614,128
CONTROLLED DISTILLATION OF OXO ALCOHOLS CONTAINING HIGH-BOILING IMPURITIES

Joseph K. Mertzweiller, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application December 31, 1949, Serial No. 136,295
2 Claims. (Cl. 260—643)



1. An improved continuous distillation process for the purification of an impure primary C_8 isooctyl alcohol obtained by the Oxo process of the catalytic reaction of a C_7 olefin stream with carbon monoxide and hydrogen and subsequent hydrogenation of the C_8 aldehydes obtained therefrom, and containing high-boiling thermally unstable impurities including acetals, esters, hemiacetals, and ethers, which comprises introducing the impure alcohol into an alcohol distillation zone, maintaining continuous reflux within said zone, removing an alcohol rich overhead vapor stream from said distillation zone, maintaining the temperature of the liquid bottoms below 260° C., but at a minimum temperature of 175° C. to retain as bottoms from 5 to 10% of the alcohol present in the impure alcohol fed to the distillation zone, whereby the decomposition of the high-boiling thermally unstable impurities is prevented, removing a liquid bottoms product containing the retained alcohol and thereafter steam stripping the residual alcohol from the high-boiling impurities in the bottoms product and returning said recovered alcohol to the aldehyde hydrogenation for rehydrogenation.

2,614,129

PERFLUORINATION

Earl T. McBee, Richard M. Robb, and Waldo B. Ligett, La Fayette, Ind., assignors to Purdue Research Foundation, West Lafayette, Ind., a corporation of Indiana

No Drawing. Application August 10, 1943, Serial No. 498,094
13 Claims. (Cl. 260—648)

1. In the preparation of perfluoro organic compounds, the steps of reacting silver difluoride with an organic compound having at least two carbon atoms and containing at least one atom of the group consisting of hydrogen and halogen other than fluorine directly attached to carbon at a temperature above 50° centigrade until all hydrogen and non-fluorine halogen in the compound is replaced by fluorine and separating a perfluoro organic compound having at least two carbon atoms in the molecule from the reaction product.

2,614,130

OXIDATIVE CONDENSATION OF ALKYL AROMATIC HYDROCARBONS AND OF NUCLEARLY CHLORINATED ALKYL AROMATIC HYDROCARBONS

Herman Pines, Bruno Kvetinskas, and Vladimir N. Ipatieff, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application March 26, 1949, Serial No. 83,774
9 Claims. (Cl. 260—649)

1. A process for producing a member of the group consisting of a diarylalkane and a nuclearly chlorinated diarylalkane from an aromatic compound of the group consisting of an aromatic hydrocarbon and a nuclearly chlorinated aromatic hydrocarbon each having an alkyl group containing at least one and not more than two hydrogen atoms combined with the carbon atom attached to the aromatic ring, which comprises subjecting said aromatic compound to oxidative condensation by reacting the same with free oxygen at a temperature of from about 100° to about 250° C. in the presence of at least one metal of the group consisting of aluminum and magnesium.

2,614,131

FLUOROCARBON MONO-IODIDES AND METHOD OF MAKING

Joseph H. Simons and Thomas J. Brice, State College, Pa., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application August 22, 1949, Serial No. 111,761
1 Claim. (Cl. 260—653)

A method of making the fluorocarbon monoiodide compound C_2F_5I which comprises heating at a temperature of the order of 175 to 250° C. a vapor-phase mixture of iodine pentafluoride (IF_5) and tetrafluoroethylene (C_2F_4), and recovering the C_2F_5I reaction product.

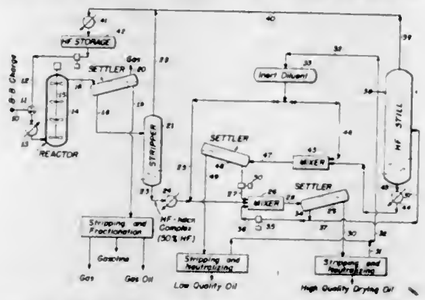
2,614,132

RECOVERY OF DRYING OILS FROM HF-HYDROCARBON COMPLEXES

Robert J. Lee, La Marque, and Paul D. May, Galveston, Tex., assignors to Pan American Refining Corporation, Texas City, Tex., a corporation of Delaware

Application June 12, 1951, Serial No. 231,196
13 Claims. (Cl. 260—666)

1. The method of recovering a highly unsaturated oil and a darker, more saturated oil from an HF-hydrocarbon complex, which method comprises mixing said complex with an aqueous HF solution which is substantially free from dark colored saturated oil and which contains at least about 40, but less than 55, weight per cent HF in a first mixing zone, separating from the resulting mixture in a first separation zone a highly unsaturated oil phase from an acid phase, distilling substantially anhydrous HF from said acid phase to obtain as still bottoms aqueous HF



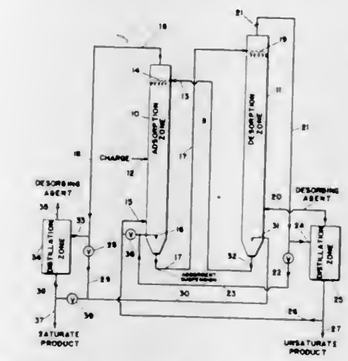
containing at least about 40 weight per cent HF and an oil which is darker and more saturated than said highly unsaturated oil, and separating said darker and more saturated oil from the aqueous HF contained in the still bottoms by cooling said still bottoms and contacting the cooled still bottoms with a wash liquid whereby said aqueous HF may be returned to said first mixing zone without impairing the quality of said highly unsaturated oil.

2,614,133

CONTINUOUS ADSORPTION PROCESS

Carl E. Ockert, Wilmington, Del., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application June 30, 1949, Serial No. 102,275
15 Claims. (Cl. 260—674)



1. Continuous process for separating a liquid charge mixture of organic compounds of different adsorbabilities by means of a selective adsorbent which comprises: feeding finely divided adsorbent, dispersed in a liquid as hereinafter specified, into a vertically elongated column adjacent the top, said column constituting a countercurrent adsorption zone; feeding into said column a liquid stream of the charge at an intermediate level and a liquid stream of hereinafter specified reflux at a lower level but above the bottom; maintaining an upward flow of liquid through the adsorption zone at such rate that the adsorbent particles fall countercurrent

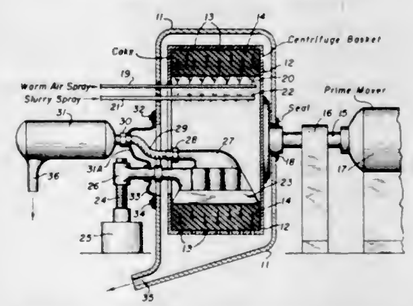
thereto in a substantially unobstructed downward path, thereby adsorbing and enriching the more adsorbable charge component; withdrawing from an upper part of the column a liquid stream rich in the less adsorbable charge component and containing desorbing agent hereinafter specified; continuously introducing below the level at which said reflux is introduced a liquid stream of transporting medium as hereinafter specified and passing the same downwardly in contact with the adsorbent particles, which carry the more adsorbable charge component as adsorbate, in amount to maintain the adsorbent in the form of a dispersion; passing said dispersion to a separate column constituting a countercurrent desorption zone and feeding it therein adjacent the top; introducing a liquid stream of desorbing agent into a lower part of the desorption column above the bottom and flowing a portion of it upwardly at such rate that the adsorbent particles fall countercurrent thereto in a substantially unobstructed downward path and the adsorbate is thereby desorbed, and a portion of it downwardly in amount to prevent upflow of liquid below the level at which desorbing agent is introduced, said desorbing agent being not substantially more strongly adsorbable than the more adsorbable charge component; withdrawing from an upper part of the desorption column a liquid stream comprising said adsorbate and desorbing agent; utilizing, as the said transporting medium, material comprising a portion of the adsorbate obtained from the desorption column; separating desorbing agent from at least a part of said liquid stream which is withdrawn from an upper part of the desorption column to obtain adsorbate and passing a portion of the latter to the adsorption column as said reflux; introducing a second liquid transporting medium, comprising a portion of the less adsorbable component product derived from the adsorption column, into the desorption column below the level at which desorbing agent is introduced and admixing the same with the mixture of adsorbent particles and downwardly flowing desorbing agent in amount to maintain the adsorbent in the form of a dispersion; and passing said dispersion to the upper part of the adsorption column for re-use of the adsorbent.

2,614,134

PURIFICATION OF CRYSTALLINE SUBSTANCES

John M. Powers, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application June 21, 1950, Serial No. 169,451
11 Claims. (Cl. 260—674)



1. In the recovery of aromatic hydrocarbon crystals from a mother liquor by centrifuging a slurry containing said hydrocarbon to form a cake of aromatic hydrocarbon crystals, the steps of heating the exposed surface of said cake during centrifuging to a temperature sufficiently high to melt only the exposed surface of said cake and removing crystals from the surface of the crystal cake to recover aromatic hydrocarbon of high purity.

2,614,135

SELECTIVE ADSORPTION OF NONPOLAR ORGANIC COMPOUNDS

Alfred E. Hirschler, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

No Drawing. Application August 30, 1950, Serial No. 182,425
13 Claims. (Cl. 260—674)

1. Method for selectively adsorbing a nonpolar organic compound from a mixture of nonpolar organic compounds which comprises treating the mixture with an adsorbent composition comprising silica gel which has been treated with a silane having the general formula

$$R_kH_mSiX_n$$

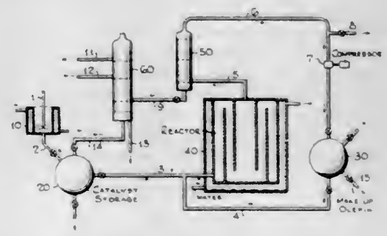
wherein R represents a radical selected from the group consisting of alkyl, cycloalkyl, aryl, alkoxy, cycloalkoxy and aryloxy radicals and at least one R is a radical containing at least three carbon atoms, X is a radical selected from the group consisting of halogen and amino radicals, k and n are whole numbers from 1 to 3 and m is a whole number from 0 to 2, the sum of k, n and m being 4, said silane being soluble in pentane at room temperature to the extent of at least 1% by weight.

2,614,136

METHOD OF POLYMERIZING OLEFINS WITH PHOSPHORUS PENTOXIDE-TRI-ALKYL PHOSPHATE CATALYST SOLUTION

John J. Kolfenbach, Somerville, N. J., and Augustus B. Small, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application July 6, 1949, Serial No. 103,212
7 Claims. (Cl. 260—683.15)



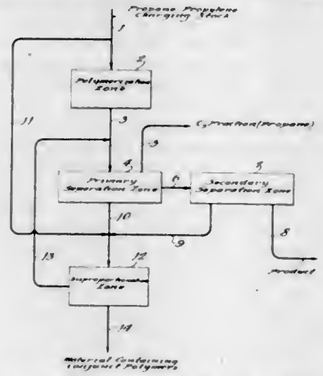
1. Process for the polymerization of normally gaseous olefins to hydrocarbon constituents boiling in the motor fuel boiling range which comprises contacting a feed stream containing normally gaseous olefins with a liquid catalyst consisting essentially of phosphorus pentoxide dissolved in a tri-alkyl phosphate, said alkyl groups having in the range of 2 to 5 carbon atoms and said catalyst containing above about 1 g. of said phosphorus pentoxide per 100 g. of said tri-alkyl phosphate.

2,614,137
PRODUCTION OF SELECTIVE OLEFINIC POLYMERS

Joseph A. Chenicek, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application November 28, 1947, Serial No. 788,635
10 Claims. (Cl. 260—683.15)

1. A combination polymerization-disproportionation process for increasing the yield of a desired olefinic polymer from the products of polymerizing an olefinic monomer which comprises polymerizing said olefinic monomer in a first reaction zone in the presence of a solid phosphoric acid catalyst to form a product containing said desired polymer having a molecular weight intermediate between the lower and higher molecular weight polymers contained in said product, separating said desired polymer from said product and subjecting the residual lower and higher molecular weight polymers in admixture to a disproportionation reaction in a second reaction zone in the presence of a catalyst comprising a siliceous adsorbent to average the molecular weights of said latter polymers forming



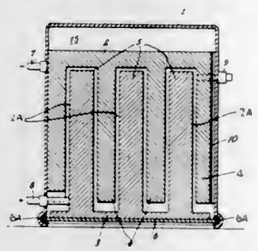
thereby an additional yield of said desired polymer.

ELECTRICAL

2,614,138
SEALABLE STORAGE BATTERY CONSTRUCTION

Pierre A. C. Jacquier, Paris, France

Application August 9, 1950, Serial No. 178,429
In France January 26, 1950
15 Claims. (Cl. 136—6)



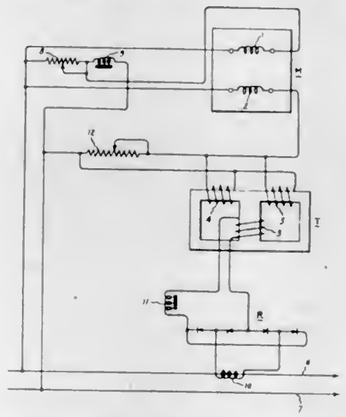
1. A sealable storage battery of the kind in which gases evolved are absorbed by at least one of the electrodes comprising juxtaposed first and second electrodes adapted to be immersed at least partially in a body of electrolyte and between which gas is evolved during normal operation, said first electrode in the normal operating position of the battery projecting into the electrolyte and having a portion defining a downwardly opening cavity positioned over at least a portion of the other electrode so as to collect upwardly flowing gas evolved thereon.

2,614,139
VOLT-AMPERE METER

Philip Baxter, Davyhulme, Manchester, England, assignor to General Electric Company, a corporation of New York

Application July 15, 1950, Serial No. 173,991
In Great Britain August 10, 1949
4 Claims. (Cl. 171—95)

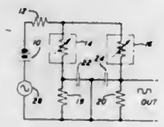
1. An alternating current volt ampere response device comprising an alternating current watt meter element having current and voltage energising coils, connections for energising said coils in substantially fixed phase relation from the voltage of an alternating current circuit, a saturable core reactor in series with only one of said coils for varying the current flow in such coil, a saturating winding for such reactor, and connections including rectifier means for energising said saturating winding in proportion to the current flow in said alternating current circuit.



2,614,140
TRIGGER CIRCUIT

John G. Kreer, Jr., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 26, 1950, Serial No. 164,361
17 Claims. (Cl. 171—97)

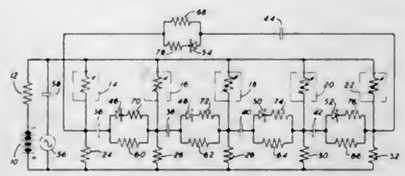


17. An electrical trigger circuit comprising in combination a pair of variable resistance elements and a pair of connected auxiliary impedance elements forming therewith a pair of current-conduction paths, each of said variable resistance elements in combination with said auxiliary impedance elements having a variational resistance characteristic wherein operation occurs in either of two stable states within a predetermined range of electrical quantities, and wherein operation occurs in only one stable state for electrical quantities outside of said range, an energy storage circuit interconnecting said current-conduction paths, an external network connected across said current-conduction paths, said network including a continuous unidirectional source of energy the magnitude of which is sufficient to give rise to quantities within said predetermined range in each of said current-conducting paths simultaneously, said network also including a source of unidirectional electrical pulses the magnitude of which is sufficient to momentarily change the current through said current-conducting paths to a value outside of said predetermined range.

2,614,141
COUNTING CIRCUIT

James O. Edson, Warren Township, Somerset County, and John G. Kreer, Jr., Bloomfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 26, 1950, Serial No. 164,362
9 Claims. (Cl. 171—97)

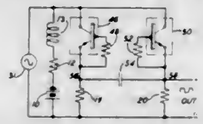


1. An electrical countercircuit comprising in combination a plurality of variable resistance elements and a plurality of connected auxiliary resistance elements forming therewith a plurality of current-conductive paths, each of said variable resistance elements in combination with its auxiliary resistance element having a variational resistance characteristic including a predetermined range of electrical quantities within which either of two stable states obtains for a given condition and outside of which range of electrical quantities only a single stable state obtains for a given condition of operation, an energy storage impedance circuit interconnecting each pair of said current-conductive paths and including means for discriminating between the direction of current flow in said impedance circuit, an external network connected across said paths, said network including an electrical potential source, the magnitude of which when so connected is sufficient to give rise simultaneously to values within said predetermined range of electrical quantities for all of said variable resistance elements whereby one of said elements operates in one of said stable states and the remaining ones of said elements operate in the other of said stable states, and means comprising a generator of intermittent electrical pulses to momentarily change the effective value of said electrical potential source to give rise momentarily to electrical quantities outside of said predetermined range wherein all of said elements operate in the same stable state.

2,614,142
TRIGGER CIRCUIT

James O. Edson, Warren Township, Somerset County, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 26, 1950, Serial No. 164,363
11 Claims. (Cl. 171—97)

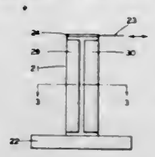


9. An electrical trigger circuit comprising a pair of shunt-type negative resistance elements in series connection and a pair of fixed resistors in series connection and shunted across said negative resistance elements, an inductor connected between the junctions of said negative resistance elements and said fixed resistors, each of said negative resistance elements together with its connected fixed resistor having a variational resistance characteristic having a predetermined range of current-voltage conditions within which either of two stable rest states obtains for a given set of conditions, and outside of which only a single stable rest condition obtains for a given set of conditions, an external circuit connected across said serially-connected negative resistance elements and said fixed resistors, said external circuit including a source of potential the magnitude of which when so connected is sufficient to create across said negative resistance units current-voltage conditions within said predetermined range, whereby a stable rest condition of the circuit is established only by unequal distribution of current between the two elements, means to momentarily change the effective magnitude of said voltage source to create across said negative resistance elements current-voltage conditions outside of said range of negative resistance current-voltage conditions, said means comprising a source of current pulses connected in a low impedance pulse conductive path which includes said negative resistance units in series with a capacitor and said source of current pulses.

2,614,143
ELECTROMECHANICAL TRANSDUCER

Alfred L. W. Williams, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

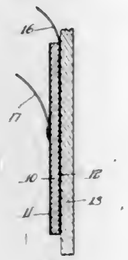
Application June 12, 1948, Serial No. 32,593
10 Claims. (Cl. 171—327)



10. An electro-mechanical transducer comprising: a longitudinally extensive body of polycrystalline titanate-type dielectric material having a wall inclosing a region which has a medial line extending generally longitudinally of said wall; mechanical means coupled to said body so that motion of said means is associated with bending of said medial line and with corresponding longitudinal contraction of the portion of said wall on one side of said medial line and simultaneous longitudinal expansion of the portion of said

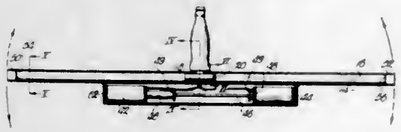
wall on the opposite side thereof; an electrode adjacent substantially all of the inside surface of said wall; and two peripherally separated, longitudinally extending electrodes, individually adjacent the outside surfaces of said two portions of said wall and constituting individually the two electric signal terminals during electromechanical transducing, said two wall portions having a substantial induced remanent polarization in the same generally radial direction relative to said medial line.

2,614,144
TRANSDUCER ELEMENT AND METHOD OF MAKING SAME
Glenn N. Howatt, Metuchen, N. J., assignor to Gulton Mfg. Corp., a corporation of New Jersey
Application June 26, 1948, Serial No. 35,415
12 Claims. (Cl. 171—327)



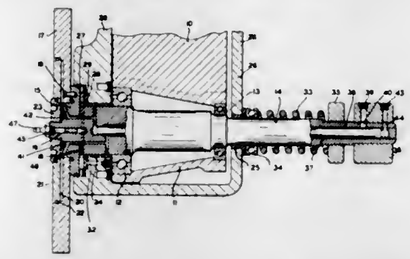
10. A transducer element comprising a piezoelectric body consisting of a flat piece of single crystal barium titanate originally randomly oriented and having electrodes on opposite faces thereof and being electrically charged and electrically oriented, and an elastic supporting member secured to one of the faces of the piezoelectric body.

2,614,145
ELECTROMAGNETICALLY ACTUATED SIGN STRUCTURE
Victor L. Watkins, Salina, Kans.
Application October 25, 1950, Serial No. 191,986
6 Claims. (Cl. 172—126)



1. A sign structure of the character described comprising a support; an elongated rocker element carried by the support; means for pivotally mounting the element on said support adjacent to the longitudinal median point of the former; a unit shiftably carried by the rocker element for free reciprocating travel past the said mounting means; stops for the unit defining the ends of its path of travel; apparatus on the rocker element for oscillating the same about said mounting means, including a weight assembly positionable with respect to the mounting means to tip the rocker element; means for drawing the weight assembly to positions with respect to the mounting means whereby to tip the rocker element; and parts joining the stops and the said drawing means, adapted to actuate the drawing means to dispose the weight assembly to a position with respect to the mounting means whereby to tip the rocker element and shift the unit to the opposite side of the mounting means from that occupied by the said unit when the unit is in engagement with one of the stops.

2,614,146
SEAM WELDER HEAD
Edwin A. Mallett and Melvin M. Seeloff, Warren, Ohio, assignors to The Taylor-Winfield Corporation, Warren, Ohio, a corporation of Ohio
Application September 19, 1951, Serial No. 247,262
5 Claims. (Cl. 173—324)

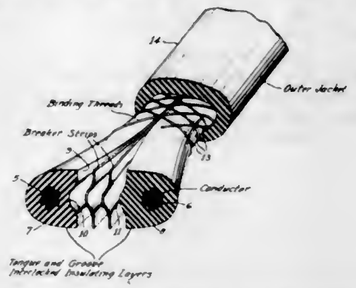


1. In apparatus for rotatably supporting and conducting welding current to a rotary electrode of an electric resistance welding machine and having a projecting rigid support with a spindle journaled therein and extending outwardly of opposite sides thereof, the improvement which comprises a hollow conductor encasing the free end portion of said support and having aligned bores in opposite walls thereof for the reception of portions of said spindle whereby said conductor is floatingly mounted on said spindle for axial movement thereon, means for securing a rotary electrode to one end of said spindle comprising a current-conductive adapter ring mounted on the end portion of said spindle and having a flat inner face, a current-conductive ring rigidly mounted on the outer face of an adjacent wall of said conductor and adapted to be brought into pressure contact with said adapter upon movement of said conductor axially along said spindle, and spring means interposed between the opposite wall of said conductor and the opposite end portion of said spindle to urge said conductor axially along said spindle to thereby yieldingly maintain a predetermined pressure engagement between said adapter and said ring.

2,614,147
ABRASION RESISTANT ELECTRIC CABLE
William H. Benton, Jr., Marion, Ind., assignor to Anaconda Wire and Cable Company, a corporation of Montana
Application July 2, 1949, Serial No. 102,752
2 Claims. (Cl. 174—117)

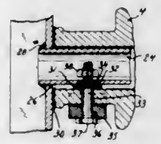
1. An electric cable comprising at least two insulated conductors, the insulation about one of said conductors being formed with a longitudinal tongue and the insulation about the other of said conductors being formed with a corresponding longitudinal groove, said two insulated conductors being laid together side by side and being interlocked by projection of said tongue into said groove, a layer of lubricant between the interlocking faces of said insulated conductors, and means binding the insulated conductors together in such interlocked position, said means being adhesively secured to said conductors throughout its length, whereby the insulated

conductors are restrained against lateral displacement of one from the other but some lon-



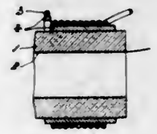
gitudinal relative movement is permitted their interlocked faces.

2,614,148
MOUNTING FOR ELECTRICAL SWITCHES
Lindell Lloyd Crump, Kirkwood, and John T. Finley, St. Louis, Mo.
Application March 15, 1948, Serial No. 14,958
3 Claims. (Cl. 174—158)



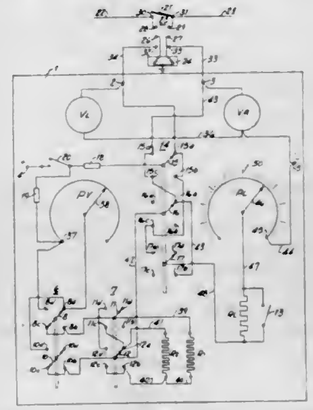
1. A support for an electrical switch comprising a base member, an insulator supported by said base member and extended outwardly therefrom, said insulator being provided with a bore formed longitudinally therein which is open at an end of the insulator, and said insulator being adapted to support part of a switch, and means for attaching said insulator to said base member, the last-mentioned means comprising a tubular element having an end portion that is extended through an opening formed in a wall of said base member and which is welded to said wall of said base member, said tubular element being projected outwardly from said base member and being extended into the bore of said insulator, and means including a yieldable V-shaped washer which is interposed between a face portion of the bore of said insulator and a portion of said tubular element for securing said insulator to said tubular element.

2,614,149
VARIABLE CAPACITOR
Friedhelm Steyer and Willy Werner, Hamburg, Germany, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 31, 1950, Serial No. 182,442
In Germany September 10, 1949
2 Claims. (Cl. 175—41.5)



2. A variable capacitor comprising a tubular body of low loss ceramic material constituting a dielectric, a metal layer fixedly secured to the internal wall of said tubular body and constituting a fixed electrode of said capacitor, a metal layer electrode removably secured to the external wall of said body constituting a variable electrode of said capacitor and a wire coil secured to said variable electrode and removable therewith turn-by-turn to vary the capacity of said capacitor.

2,614,150
DIRECT CURRENT CIRCUIT BREAKER TESTER
Fred J. Bucher, Library, Pa.
Application January 31, 1948, Serial No. 5,521
8 Claims. (Cl. 175—183)

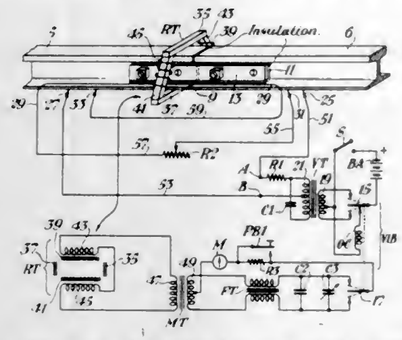


1. A device for testing in service the automatic reclosing mechanism of a direct current circuit breaker having two reclosing control circuits to ground, comprising switch means for alternately and independently connecting the reclosing control circuits to their respective line sides of the circuit breaker contact or to the testing device including a first testing circuit for one reclosing control circuit having a voltage indicating means and having terminals for connection with a voltage supply of line voltage magnitude, a variable resistance, a second testing circuit for the other reclosing control circuit also having voltage indicating means and having said variable resistance connected with said terminals to provide a variable voltage to simulate variable voltage operating conditions on the reclosing control circuits to check their operation.

2,614,151
MEANS FOR DETERMINING THE RESISTANCE OF INSULATED JOINTS
Robert M. Gilson, Pittsburgh, and Paul N. Martin, Penn Township, Allegheny County, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application July 30, 1948, Serial No. 41,694
6 Claims. (Cl. 175—183)

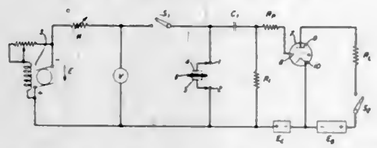
1. In a device for determining the resistance of an insulated joint, the combination comprising a source of varying current connected across the insulated joint to be tested, a reference circuit comprising a conductor disposed adjacent said insulated joint and a variable resistance connected in series, said reference circuit being connected across said joint and being arranged and disposed so that the direction of flow of current from said source through said conductor is opposite to the direction of flow of current from

said source through said insulated joint, and null detecting means for detecting a balance in the currents through said reference circuit and said insulated joint, said null detecting means comprising a magnetizable core adapted to be disposed in inductive relationship with said joint and said conductor, a plurality of windings disposed on opposite legs of said core, said windings



being arranged and connected so that voltages induced therein by flux which is produced by the flow of current through said insulated joint and said conductor are additive, but voltages which are induced therein by extraneous flux are cancelled, and means for measuring the magnitude and phase relationship of the voltages induced in said windings with respect to the voltage of said source.

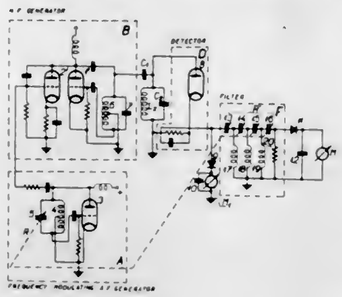
2,614,152
DIELECTRIC TEST CIRCUIT
Ludwig E. Herborn, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 29, 1949, Serial No. 90,467
6 Claims. (Cl. 175—183)



1. A dielectric tester for detecting momentary breakdown of a dielectric comprising a source of direct voltage and an impedance connected in series and directly across a pair of test terminals to which the dielectric to be tested may be connected, a capacitor and a resistor connected in series and across said test terminals, a polarized relay means coupled across said resistor and so constructed and arranged as to operate only upon the discharge of said capacitor through the resistor due to a momentary short across the test terminals.

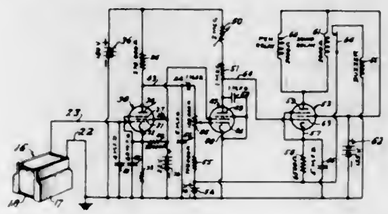
2,614,153
METHOD OF AND DEVICE FOR MEASURING AND CONTROLLING THE QUALITY FACTOR AND DAMPING FACTOR OF ELECTRIC CIRCUITS AND COMPONENTS THEREOF
Bohdan Carniol, Prague, Czechoslovakia, assignor of one-half to Tesla, National Corporation, Prague, Czechoslovakia
Application April 29, 1949, Serial No. 90,493
In Czechoslovakia May 18, 1948
8 Claims. (Cl. 175—183)

8. Apparatus for measuring the quality and damping factor of electric high frequency circuit devices, comprising, in combination, a high frequency generator, a resonant circuit containing the circuit device to be measured and connected to the generator output, a modulation generator connected to said high frequency generator for frequency modulating the output of the latter at a rate such that free oscillations are produced in the resonant circuit in addition to the forced oscillations; means for adjusting the output frequency of said modulation generator;



a high pass filter connected to the output of the resonant circuit to filter out the lower harmonics of the beat frequency between the forced and free oscillations; and measuring means connected to the input and output of said filter to measure the relative amplitudes of the input and output, whereby said amplitudes may be compared to determine the relation thereof to the resonant circuit time constant, the latter being a measure of the quality factor.

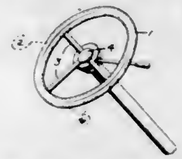
2,614,154
VERTICAL SPLIT HEAD DETECTING APPARATUS
John C. Dionne, Chicago, Ill.
Application March 28, 1950, Serial No. 152,387
6 Claims. (Cl. 175—183)



1. In apparatus for progressively testing transversely magnetized rails for vertical split heads and like flaws, the combination of an inductive pickup including a coil having its longitudinal axis set transversely of the rail and an amplifier connected to the pickup for amplifying voltage waves induced therein, said amplifier having a power supply, a first stage of voltage amplification, a second stage including a thermionic valve having cathode, grid and plate elements with a condenser connected between the plate element and ground, and with relatively high resistance in the plate circuit, said plate being maintained at a relatively low voltage during quiescence, whereby said second stage of the amplifier passes only those signals received from the first stage which are of a given polarity, amplitude, and duration, and which signals cause the plate voltage to progressively increase due to said condenser being charged from said power supply,

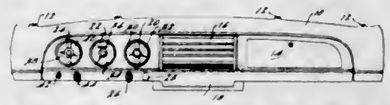
and a third stage including a power tube responsive to signals from the second stage of predetermined amplitude and polarity.

2,614,155
ELECTRIC SHOCK ELIMINATOR
Fleming Lacy Lippy, Richmond, Va.
Application April 25, 1950, Serial No. 157,988
2 Claims. (Cl. 175—264)



1. In a device of the character described the combination consisting of a metallic steering wheel provided with metallic spokes; a metallic steering post for operable engagement with said spokes and the steering mechanism and frame of an automobile, said wheel and spokes being disposed in a plastic casing and metallic projections on said wheel having their respective surfaces in alignment with the plastic surface so as to permit their engagement with the hands of an operator.

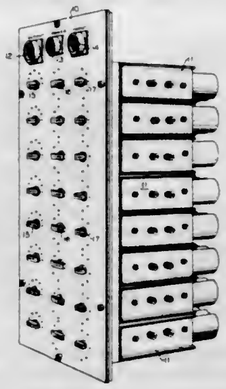
2,614,156
INSTRUMENT PANEL
Paul T. Nims, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application December 30, 1950, Serial No. 203,703
17 Claims. (Cl. 175—298)



1. An electrical control unit for dash panels and the like comprising a container having a face opening, an instrument received in the face opening of the container and detachably secured to the container at the back thereof, a rotary switch element mounted for rotation in said container adjacent the instrument, a plurality of fixed contacts for the rotary switch element and an insulated cover plate for a portion of the back of the container for insulatively mounting said contacts to the container so as to establish cooperation with the rotary switch element, conductive strapping separately carried by the instrument and cover plate and respectively connected to the instrument and switch contacts, unconnected ends of said strapping terminating in individual tabs grouped on either side of an edge of the cover plate, and a connector formed to receive said group of tabs and having a plurality of energized and load-connected conductor terminals carried thereby, and being arranged for interconnecting the energized and load-connected conductor terminals through the instrument and switch.

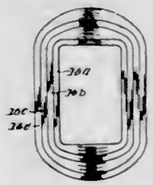
2,614,157
SEALED SHAFT AND ALIGNMENT COUPLER FOR USE IN ELECTRICAL ASSEMBLY
Orin C. Montgomery, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 3, 1949, Serial No. 119,269
14 Claims. (Cl. 175—308)

1. The combination, with a panel, and an electrical control unit mounted on said panel, said device having a rotatable shaft, of a second panel spaced from said first panel, a bushing mounted in said second panel, a shaft journalled in said bushing in alignment with said control shaft, a disc, a set screw for mounting said disc on one of said shafts, said disc having a radially ex-



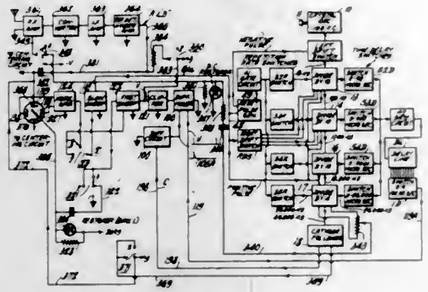
tending slot formed therein, a second disc, a set screw mounting said second disc on the other shaft, a pin mounted for longitudinal movement in said second disc and adapted to fit into said radial slot, and a spring for urging said pin into said slot, thereby to mechanically connect said shafts.

2,614,158
MAGNETIC CORE
Robert C. Sefton, Dormont Borough, and John J. Zimsky, Canonsburg, Pa., assignors, by mesne assignments, to McGraw Electric Company, a corporation of Delaware
Continuation of application Serial No. 742,614, April 19, 1947. This application January 7, 1950, Serial No. 137,424
2 Claims. (Cl. 175—356)



2. In a preformed closed core of magnetic strip material for a transfomer or the like, in combination, a plurality of concentrically stacked lengthwise bent laminations, substantially all of said laminations having a permanent set to form a generally rectangular, hollow four-sided core of individual whole turns, at least one side of said core being a winding leg, a single lap joint in each of said turns along one of the sides thereof adjoining the side of said turn in said winding leg of said core, the ends of each said turn overlapping a relatively short distance and terminating along the intermediate portion of the side in which the lap joint occurs, said lap joint side having a length when the ends thereof are in lapped position generally equal in length to the side of said turn opposite thereto, and successive ones of said turns having their lap joint sides generally parallel and their lap joints respectively in alinement.

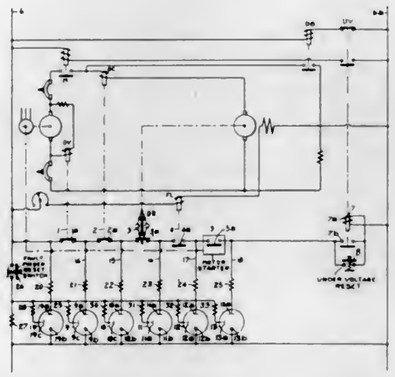
2,614,159
TIMING OR DRIFT CIRCUITS FOR LORAN NAVIGATION SYSTEMS
Robert R. Freas, Jr., Jermyn, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application March 11, 1949, Serial No. 80,784
13 Claims. (Cl. 175—381)



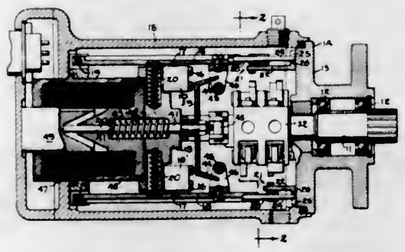
10. In a navigation system receiver for receiving two time-spaced pulses that are transmitted in a predetermined time relation from two geographically-spaced stations, said receiver including a cathode-ray tube having a screen on which said pulses are to appear and having means for producing a cathode ray and directing it against said screen, a deflecting circuit for producing successive similar deflecting waves, means for deflecting said cathode ray successively by said deflecting waves and means for causing said time-spaced pulses to produce an indication on said screen during said deflections, means for controlling the repetition rate of said deflecting waves and for controlling the time at which alternate deflecting waves start whereby said time-spaced pulses may be aligned on said screen, said last means comprising a counter chain and repetition rate switching means and time relay switching means associated therewith for producing successive pulses of said selected repetition rate with alternate pulses having a selected delay, said successive pulses being applied to said deflecting circuit to produce traces on the screen during each of said time-spaced pulses whereby said selected delay may be made such as to align said two pulses on said screen; a stable oscillator for supplying signal to the high frequency end of said chain of counters, a signal translating circuit through which signal from said oscillator is supplied to said chain of counters, a drift control circuit comprising means associated with said signal translating circuit for blocking the passage of signal from said oscillator to said chain of counters for a predetermined period of time in response to the application of a certain polarity pulse thereto, and means for applying at will to said last means a pulse of said certain polarity which pulse occurs at the selected repetition rate whereby the repetition period of said output pulse is increased as a function of said predetermined period of time.

2,614,160
INDICATING SYSTEM
Lawrence R. Foote and William L. O. Graves, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application July 28, 1951, Serial No. 239,154
10 Claims. (Cl. 177—311)

1. An indicating system comprising in combination first and second supply conductors, a control circuit connected across said supply conductors comprising a plurality of switch contacts connected in series relationship, a plurality of electric valves each corresponding to a different one of said contacts and each having first and second main discharge supporting electrodes, a control electrode and an ionizable medium, a source of ignition voltage for said control electrodes, a common electrical connection from said control electrodes to one terminal of said source, a second common connection from said first main discharge supporting electrodes to said first supply conductor and a plurality of separate electrical connections each extending from the corresponding terminal of a different one of said contacts to the second main discharge supporting electrode of the corresponding electric valve to produce in response to opening of one of said contacts a pattern of illumination in which each of said valves having its main electrode circuit remaining completed is illuminated and each of said valves having its main electrode circuit interrupted is extinguished, and a reset switching device included in one of said common connections for restoring the initial condition of illumination of said valves existing prior to said opening of said switch contacts.

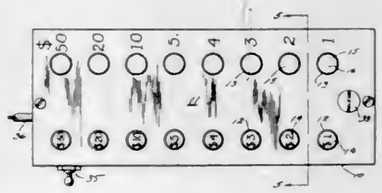


2,614,161
SPEED RESPONSIVE SIGNALING MECHANISM
Frank N. Bailey and Raymond P. Humpal, Rockford, Ill., assignors to Woodward Governor Company, Rockford, Ill., a corporation of Illinois
Application June 8, 1950, Serial No. 166,872
8 Claims. (Cl. 177—311.5)



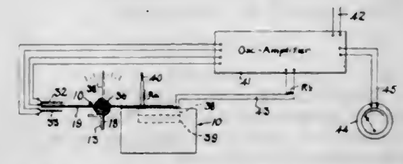
1. Speed responsive signalling mechanism having, in combination, a rotatable support, a plurality of flyweights spaced annularly around and longitudinally of the axis of rotation of said support and pivoted on the latter to move outwardly as the speed of the support increases, a plurality of annularly spaced arms one for each of said flyweights extending longitudinally of said axis and each swingable transversely of the latter and into and out of an inactive position, means normally urging each of said arms away from its inactive position, a plurality of latches one pivoted on and projecting from each arm and engageable with each of said flyweights, each latch being engageable by its flyweight at a predetermined speed of said support but disposed out of the path of the flyweight at all other speeds, a keeper for each latch engageable with the latter to hold its arm in said inactive position thereof but disengageable from the latch when the latter is struck by its flyweight, a device for giving a signal in response to movement of each of said arms out of said position thereof, a resetting member movable along said axis into and out of a normally inactive position, and means operable in response to movement of said member out of said inactive position thereof to move each of said arms into its inactive position and each of said latches into holding engagement with its keeper.

2,614,162
CURRENCY DENOMINATION INDICATOR
Edgar G. Smith, Youngstown, Ohio
Application February 7, 1951, Serial No. 209,859
6 Claims. (Cl. 177—337)



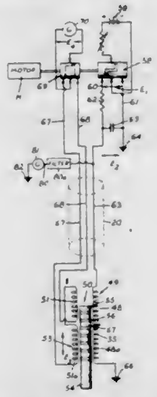
1. A currency denomination indicated comprising a body member having a plurality of notched keys and a plurality of signaling buttons mounted for vertical movement therein, the said notched keys and buttons arranged in oppositely disposed pairs, levers pivoted midway between their ends to the body member and engaging the key and button of each of the said pairs, said keys normally positioned in elevated relation to the said body member and said buttons normally positioned in flush relation with the said body member whereby downward movement of one of the said keys results in upward movement of one of the said buttons, means for retaining each of the keys in depressed position and its corresponding button in elevated position, said means comprising a plurality of springs each of which is registrable in one of the notched keys, a release button in said body member, a rock shaft movably engaged by said release button and means on said rock shaft for engaging the said springs to move them away from the said notched keys and spring means between said buttons and said body member normally urging the buttons into flush relation therewith, identifying indicia on each of the said keys and corresponding identifying indicia on said body member adjacent each of the corresponding buttons.

2,614,163
ELECTROMECHANICAL CONTROL AND INDICATING SYSTEM
Charles Garland Roper, Fairfield, Conn., assignor to Manning, Maxwell & Moore, Inc., New York, N. Y., a corporation of New Jersey
Application October 21, 1947, Serial No. 781,066
9 Claims. (Cl. 177—351)



1. In a continuous control system the combination comprising a galvanometer having means forming a magnetic field, a resiliently mounted member, and an input coil, said coil being connected to said member and mounted in said magnetic field, a vacuum tube oscillator having a tank circuit, the movement of said member varying the load of said tank circuit to produce an amplified direct current, electrical means, energized by said direct current, acting to oppose the displacement of said resiliently mounted member, means connecting to said input coil for generating a current proportional to the deviation of a condition to be controlled from a predetermined value, and means actuated by said direct current for causing said condition to return to its predetermined value.

2,614,164
MUTUAL INDUCTANCE SYSTEM
Owen H. Huston, Houston, Tex., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application November 12, 1947, Serial No. 785,270
17 Claims. (Cl. 177—351)



17. In apparatus for gauging the size of a hole comprising mechanical means insertable in the hole and providing a mechanical output which is a function of the size of the hole, the improvement comprising a mutual inductance system having primary and secondary winding means, a source of periodically variable voltage connected to said primary winding means, said voltage having a substantially constant rate of change during a half-cycle, a member operatively associated with said winding means and movable in response to the output of said mechanical means for varying the coupling between said primary

and secondary winding means, said member having portions of magnetic material and portions of non-magnetic material, said portions being so selected and shaped as to vary the coupling between said primary and secondary winding means according to a function of the said mechanical output representative of the size of the hole, and indicating means responsive to the output of said secondary winding means indicative of a function of the variable to be observed.

2,614,165

MARINE SEISMIC SURVEYING

Waddie W. Doolittle, Picayune, Miss., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Original application February 23, 1949, Serial No. 77,776. Divided and this application October 17, 1949, Serial No. 122,674
4 Claims. (Cl. 177—352)



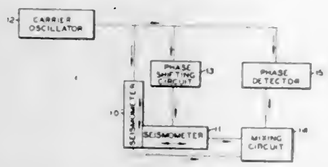
1. A detector spread for marine seismic surveying comprising a tension and conductor cable, a plurality of seismic-wave detectors spaced along said cable, a plurality of buoyant supporting means spaced along said spread, the overall buoyancy of said spread having a positive value with the portions of maximum positive buoyancy being between and remote from said detectors, and the buoyancy of the portion of said spread associated with each of said detectors having a small negative value effective to cause slow and complete submergence of each detector and the adjacent portions of the spread below the water surface.

2,614,166

METHOD FOR DETERMINING THE DIRECTION OF ARRIVAL OF WAVES

Raymond G. Piety, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application April 24, 1950, Serial No. 157,771
12 Claims. (Cl. 177—352)



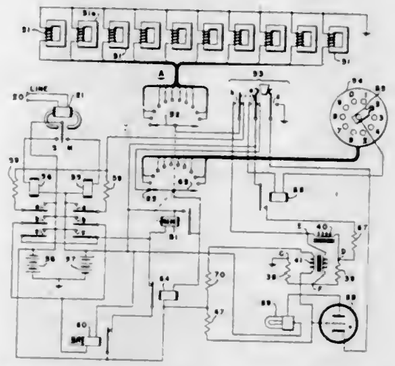
1. Apparatus for determining the direction of arrival of waves in a preselected reference plane which comprises, in combination, a pair of wave detector units oriented to receive waves approaching from different directions in the reference plane, means for producing an alternating carrier voltage, means for modulating said voltage with the output of one of said detector units, means for shifting the phase of the carrier voltage, means for modulating the output of said second detector unit with the phase shifted voltage, means for combining said modulated voltages to produce a resultant voltage, and means for determining the relative phase of said carrier voltage and said resultant voltage.

2,614,167

STATIC ELECTROMAGNETIC MEMORY DEVICE

Lawrence J. Kamm, New York, N. Y., assignor to The Teleregister Corporation, New York, N. Y., a corporation of Delaware

Application December 28, 1949, Serial No. 135,410
5 Claims. (Cl. 177—353)



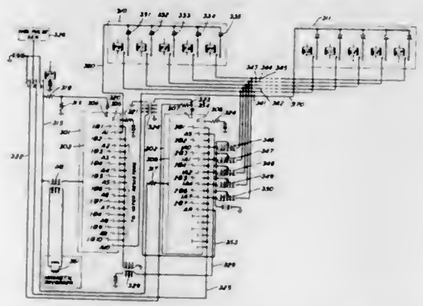
1. A data storage device comprising a solenoid, a ferro-magnetic core member having a remanence sufficiently high to maintain the core member substantially in a saturated state within said solenoid and forming part of a substantially closed magnetic circuit, recording circuit means for energizing said solenoid to obtain a desired polar orientation and a corresponding remanent magnetization in said core member, thereby to store the significance of an applied data signal, and reading circuit means comprising a coil having a predetermined inductance and including a circuit for comparing the inductance of said coil with the inductance of said solenoid, thereby to manifest the orientation effect of said magnetization, and means for applying a relatively weak signal to said comparison circuit to protect the data record against loss from appreciable de-magnetization.

2,614,168

SIGNAL TRANSMITTER

Edward Vroom, Ossining, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application July 8, 1950, Serial No. 172,737
12 Claims. (Cl. 177—380)



7. In a communication system, a pulse source, a first gaseous conduction device having a first electrode, a first plurality of other electrodes, and a second plurality of other electrodes and responsive to pulses transmitted from said pulse source and applied to said first plurality of other

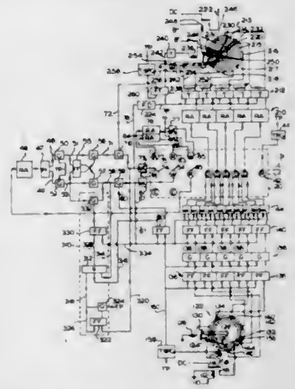
electrodes to advance the conductive path therethrough step by step so that said path exists between said first electrode and successive ones of said second plurality of other electrodes, a second gaseous conduction device having a first electrode a first plurality of other electrodes and a second plurality of other electrodes and responsive to pulses transmitted from said first device and applied to said first plurality of other electrodes of said second device to advance the conductive path therethrough step by step so that said path exists between said first electrode and successive ones of said second plurality of other electrodes, output means connected to said first electrode of said second device, a plurality of conductors connected to said second plurality of other electrodes of said second device, and means selectively connecting said conductors to selected ones of said second plurality of other electrodes in said first device.

2,614,169

STORAGE AND RELAY SYSTEM

Arnold A. Cohen, Minneapolis, John L. Hill, North St. Paul, and Robert M. Kalb, Minneapolis, Minn., assignors to Engineering Research Associates, Inc., Arlington, Va., a corporation of Minnesota

Application July 24, 1950, Serial No. 175,832
18 Claims. (Cl. 178—17.5)



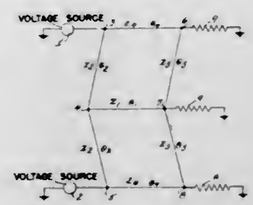
10. In magnetic apparatus, means to relay telegraphic messages through a continuously revolving magnetizable storage drum, said means including recording and reading intelligence transducing means interconnected with the incoming telegraph line and arranged in operative proximity to the surface of the drum, indicator transducing means, reading delay transducer means, and writing delay transducer means also positioned in operative relationship to the drum, each transducer means being adapted to sweep out associated tracks over the surface of the drum, receiver-distributor means adapted to receive coded message signals over the incoming line, holding circuits adapted to receive the message signals, gating circuits adapted to permit the signals in the holding circuits to be recorded on the magnetic drum by means of the intelligence transducers, the same intelligence transducers being connected to transmitter gating circuits, the transmitter gating circuits being connected to transmitter holding circuits, and a transmitter-distributor adapted to collect the signals from the transmitter holding circuits for transmission over an outgoing line, and means to record the incoming signals in sequence on the surface of the drum and to transmit the signals from the surface of the drum in the in-coming sequence, said means comprising transducer means for inserting in the indicator track signals of one polarity to indicate recorded but non-transmitted signals in the intelligence tracks and signals in the indicator track of opposite polarity to indicate transmitted signals of the intelligence tracks, indicator-reading transducer means adapted to detect a change from one polarity of indicator flux to the other and to trigger a discriminator circuit according to the direction of change of the flux in the indicator track, changes of one direction being adapted to write in the writing delay track, and changes of the opposite direction to write in the reading delay track, reading transducer means in each delay track to read possible delay signal fluxes and to write a flux in the indicator track in areas thereof associated with the areas of the previously used intelligence track to indicate the new status of the particular area in the intelligence track, whereby on subsequent cycles of travel of the drum the reading indicator-transducer opens the gating circuits for a recording operating at the end of the series of freshly recorded signals in the intelligence track and opens the transmitter gating circuits for an intelligence reading operation at the end of the series of transmitted signal fluxes in the intelligence tracks.

2,614,170

DIRECTIONAL COUPLER FOR POLYPHASE NETWORKS

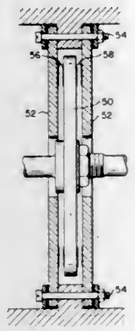
Pierre Marié, Boston, Mass., assignor to Societe francaise Sadir-Carpentier, Paris, France, a corporation of France

Application October 4, 1948, Serial No. 52,772
In France October 4, 1947
6 Claims. (Cl. 178—44)



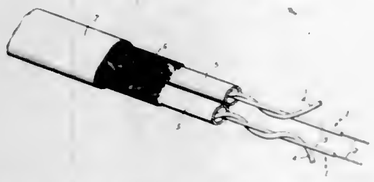
1. A directional coupler for high frequency waves for coupling two separate sources with a polyphase system comprising an electrical network consisting of $(n-1)$ four-line elements, n being equal to at least three, each of said elements being connected to form four sided loops, connections for connecting the adjacent ones of said loops to have one line in common so that said loops are connected into a chain wherein the outer loops have extreme lines corresponding to the common lines, said extreme lines of said outer loops not being common to the other loops, n phase lines connected respectively with one end of each of said common lines and with one end of each of said extreme lines, and means for connecting the sources of high frequency waves with the other ends of said extreme lines, the impedances and electrical angles of the different lines of said elements being symmetrical with reference to a medial imaginary line at equal distances from said extreme lines and selected to provide a balanced system when only one of said sources feeds high frequency waves thereto and to prevent any undesired reaction of one of said sources on the other.

2,614,171
ELECTRICAL APPARATUS FOR MEASURING ANGLES
Louis Fein, Arlington, Mass., assignor, by mesne assignments, to Edward G. Martin, Cambridge, Mass.
Application December 7, 1948, Serial No. 63,935
13 Claims. (Cl. 178—44)



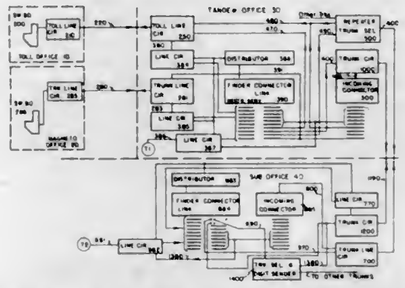
1. Apparatus for electrical measurement of angles comprising two relatively-movable members, an annular band of conducting material disposed upon one of said members in form of a closed loop with terminal connections at diametrically opposite points on the loop, and an annular band of conducting material disposed upon the other said member in form of a loop opened at one point to permit terminal connections at opposite ends of the opened loop, said bands being opposite each other in a capacitive relationship, said bands having sufficient resistance per unit length, in conjunction with the distributed capacitance between bands, to provide transmission line characteristics thereto.

2,614,172
HIGH IMPEDANCE SHIELDED TWIN CONDUCTOR CABLE
Eugene Willis Greenfield, Hastings-on-Hudson, and Alfred Emil Widmer, Ossining, N. Y., assignors to Anaconda Wire and Cable Company, a corporation of Delaware
Application June 12, 1948, Serial No. 32,564
2 Claims. (Cl. 178—45)



1. High impedance shielded twin conductor cable for carrying high frequency electric current with low power attenuation comprising a pair of conductors, each of said conductors being insulated by being axially supported in and spaced from the inner surface of a tube of dielectric material, and a metallic shield of nonmagnetic material surrounding the pair of thus-insulated conductors, characterized in that each conductor comprises a wire having a core of ferromagnetic metal and a layer of metal of high electrical conductivity surrounding said core, and further characterized in that the region between conductors inside the shield is substantially free of any ferromagnetic material.

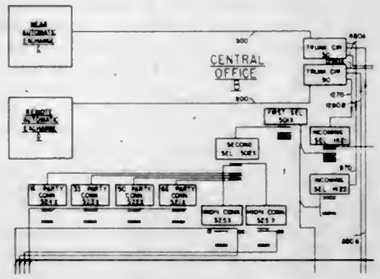
2,614,173
TRUNK CIRCUIT REPEATER
Pier Bakker, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application July 22, 1947, Serial No. 762,715. Divided and this application January 7, 1950, Serial No. 137,303
6 Claims. (Cl. 179—16)



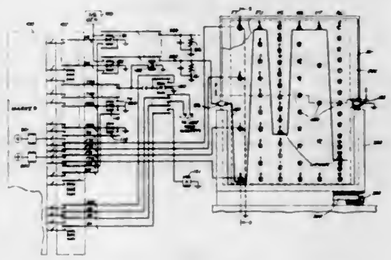
1. In a telephone system, a trunk circuit comprising a repeater provided with first and second inductively coupled windings, an incoming trunk provided with a pair of line conductors connected across said first repeater winding, a signal relay connected to the line conductors of said incoming trunk and selectively controlled thereover, an outgoing trunk provided with a pair of line conductors connected across said second repeater winding, an answer relay of the polar type provided with first and second windings, means controlled by said signal relay for selectively connecting and disconnecting the first winding of said answer relay across said second repeater winding, automatic switching apparatus connected to the line conductors of said outgoing trunk and selectively controlled by the connection and disconnection of the first winding of said answer relay across said second repeater winding, additional means controlled by said signal relay for repeating over the line conductors of said outgoing trunk digit signals received over the line conductors of said incoming trunk, and further means controlled by said signal relay for energizing the second winding of said answer relay in order to render said answer relay selectively operative in response to the polarity of the line conductors of said outgoing trunk.

2,614,174
TELEPHONE SYSTEM
Harvey W. Balzer, Downers Grove, and John E. Ostline, Chicago, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application December 28, 1946, Serial No. 719,026. Divided and this application November 15, 1950, Serial No. 195,734
9 Claims. (Cl. 179—16)

1. In a telephone system, a two-way trunk circuit comprising first and second inductively coupled repeating coils, first and second pairs of conductors respectively terminated by said first and second repeating coils, an answer relay, means controlled by seizure of either one of said pairs of conductors for connecting said answer relay to the other of said pairs of conductors, means controlled by switch directing signals received over said one pair of conductors for repeating corresponding switch directing signals over said other pair of conductors, means controlled by answering of a call extended over said other pair of conductors for controlling said answer relay, and means governed by the control of said answer relay for returning an answer signal over said one pair of conductors.



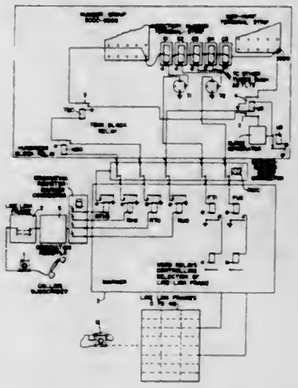
2,614,175
TRANSLATING AND SELECTING SYSTEM
Thomas L. Dimond, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 28, 1949, Serial No. 90,260
15 Claims. (Cl. 179—18)



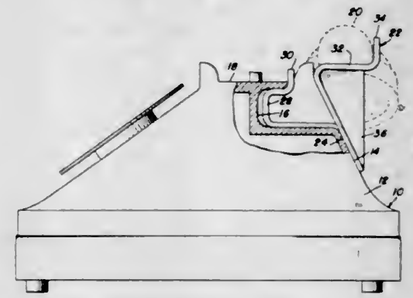
1. In combination, a plurality of gaseous conduction tubes having an anode and a cathode extending through a major portion of said tubes, a plurality of discharge initiating conductors wholly external to said tubes and electrically insulated from all of the electrodes of said tubes and arranged adjacent predetermined ones of said tubes, means for selecting one of said discharge initiating conductors, and means for applying a discharge initiating electrical condition to said selected conductor for initiating discharges through the tubes adjacent to said selected conductor.

2,614,176
ELECTRONIC INDUCTION NUMBER GROUP TRANSLATOR
Thomas L. Dimond, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 6, 1950, Serial No. 160,497
36 Claims. (Cl. 179—18)

1. In a telephone switching system, in combination, a plurality of magnetic core structures each having a winding thereon, a plurality of conductors each inductively linked with one of a plurality of combinations of said core structures, the said combinations being discrete, apparatus responsive to the dialing of the directory number of a called subscriber for selecting in accordance with said directory number one of said conductors, means responsive to said selecting apparatus for applying an electrical condition to said selected conductor to induce voltages in the windings individual to the cores with which said conductor is inductively linked, and means responsive to said voltages.



2,614,177
TELEPHONE HOLDER
Francis Orms, Akron, Ohio
Application September 4, 1951, Serial No. 244,928
2 Claims. (Cl. 179—146)

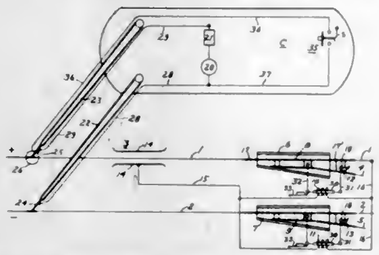


1. A receiver transmitter holding attachment for the housing of a telephone instrument having a sloping rear wall provided with a horizontally elongated recess open at the back thereof, said holding attachment comprising a sloping panel adapted to abut the sloping rear wall of an instrument housing, an upper portion of said panel being struck-out and angulated to provide a resilient channel-shaped keeper member which is substantially narrower than the panel and is adapted to be frictionally sustained in the recess of the stated housing, a pair of horizontal extensions provided at the upper edge of said panel at the opposite sides of the struck-out portion thereof, and a pair of upturned keeper elements provided at the free ends of the respective extensions.

2,614,178
OVERHEAD SWITCHING SYSTEM
Raymond W. Donaldson, Lexington, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application February 18, 1949, Serial No. 77,208
11 Claims. (Cl. 191—38)

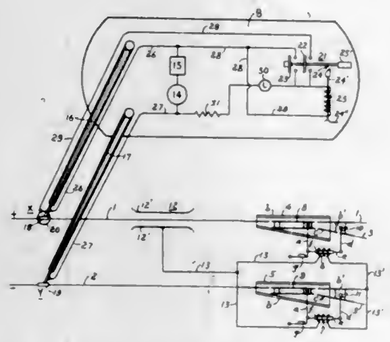
1. A control system for a pair of trolley frogs in a trolley transportation system comprising, a pair of main trolley wires and a branch wire from

each main wire, a trolley frog located at the junction of the main and branch wires, each frog provided with a tongue movable from a main line position to a branch position to guide a pair of current collector heads positioned on a vehicle, a contactor positioned alongside one of the main trolley wires where the said wire is continuous and unbroken, the contactor being in insulated relation to the trolley wire and engageable by a current collector head, each head having a current collector to engage with and move along the said main wires and one head also having connecting means to engage and energize the contactor, the connecting means insulated from the collector head and from the associated current collector, electrical means to actuate the tongues,



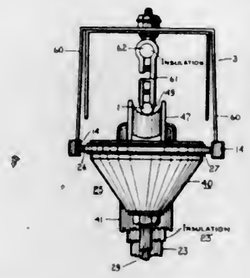
the electrical means being connected across the main trolley wires with an interposed normally open electrically controlled relay switch, the controlling portion of the relay switch being electrically connected to the contactor and to one of the main trolley wires, a motor control circuit including a controller on the vehicle and connected from one current collector to the other current collector, a frog control circuit on the vehicle including a normally open manually closable switch connected to the connecting means and to one of the current collector heads and operable to effect closure of the relay switch when the connecting means engages the contactor while the manually closable switch is closed, the said motor and frog control circuits energizable independently of the other.

2,614,179
OVERHEAD SWITCHING SYSTEM
Raymond W. Donaldson, Lexington, and Warren J. Lewis, Mansfield, Ohio, assignors to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application March 1, 1949, Serial No. 78,958
7 Claims. (Cl. 191—38)



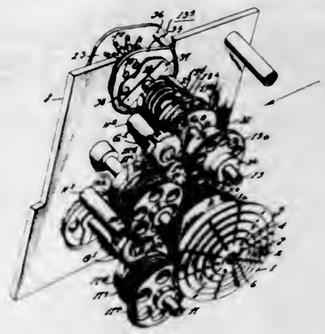
1. In a control system for a pair of trolley frogs each provided with a tongue operable to two positions and positioned at the junction of a pair of trolley wires of opposite polarity in an overhead system, a branch trolley wire from each main wire, in combination, a contactor associated with one of the main trolley wires in spaced and insulated relation thereto, connecting means associated with a current collector on an electrically operated vehicle and arranged to engage the contactor, electric operating means for the frogs connected between the contactor and the other trolley wire and operable to change the normal setting of the frog tongues to their other position, a motor control circuit on the vehicle and a second control circuit on the vehicle including a normally open manually closable switch provided with means to hold the switch closed until the connecting means engages the contactor and time delay mechanism to retard the rate of opening of the switch after the connecting means engages the contactor, the last said control circuit connecting the said connecting means and the associated current collector whereby the polarity of the connecting means and of the current collector will be the same and the same as the main trolley wire with which the contactor is associated and further the contactor will be energized at the same polarity as the main wire with which the contactor is associated when the connecting means engages the contactor while the control switch is closed.

2,614,180
CURRENT COLLECTOR HEAD
Raymond W. Donaldson, Lexington, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Original application February 18, 1949, Serial No. 77,208. Divided and this application July 16, 1949, Serial No. 105,110
8 Claims. (Cl. 191—38)



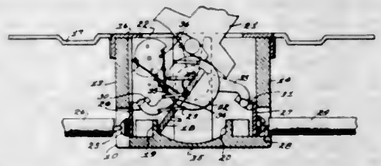
1. In a current collector head comprising a metallic support member and a current collector, the support member provided with projecting means to secure it to a trolley pole and upstanding support means on which the current collector is mounted to pivot thereon in substantially vertical and horizontal planes relative to the support member, the support member provided with recessed means in a plane above the projecting means and concentric with the support member, the combination with the said support member of metallic connecting means mounted in the recessed means in concentric relation to the current collector and to the upstanding support means therefor, the connecting means projecting laterally from the support member and having a plurality of exposed surfaces, insulating means interposed between the connecting means and the support member, the connecting means and the insulating means and the support member being so constructed and arranged that the plane of one exposed surface of the connecting means will be substantially normal to the upstanding support means and the other exposed surface being substantially parallel to the axis of the upstanding support means, and the connecting means secured in fixed relation to the support member and movable relative to the current collector.

2,614,181
SWITCH REGISTER
Anthony L. Consalvi, Philadelphia, George H. Webber, Conshohocken, Pa., and Howard C. Lawrence, Jr., Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application December 24, 1948, Serial No. 67,152
11 Claims. (Cl. 200—18)



1. In combination, a series of multi-contact switches and a plurality of shafts connected thereto for controlling the setting of said switches, a Geneva movement having driving and driven gear elements normally connected in torque-transfer relation between said shafts for actuating said switches successively in the order of their series, and a clutch having complementary clutch elements normally connected between adjacent ones of said shafts and adapted to be disconnected to permit actuation of a given switch independently of the setting of the switches of a lower order in said series.

2,614,182
DELAYED-ACTION ELECTRIC SWITCH
Ralph L. Wells, Dunedin, Fla.; Tilton S. Wells executrix of said Ralph L. Wells, deceased
Application January 3, 1950, Serial No. 136,599
1 Claim. (Cl. 200—33)

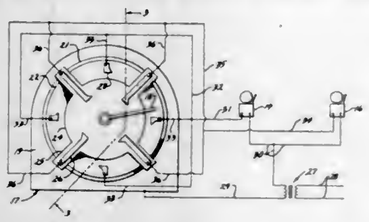


A delayed action manually operated switch comprising a hollow housing having an open side, a yoke disposed in said housing and pivotally connected at its open end to said housing at the open side of the latter, a toggle lever pivotally mounted in said housing and projecting from the open side of the latter, a cover secured to the open side of said housing for maintaining said yoke and said lever in operative assembly with said housing and having an aperture through which said lever extends, a toggle spring disposed between said lever and said yoke for swinging said yoke from one to the other of its two terminal positions when said lever is manually moved between its switch opening and switch closing positions, two discs disposed within and rotatably mounted on said housing one at each side of the housing and both adjacent said yoke, one of said discs having a peripheral notch therein and the other having peripheral gear teeth thereon, a pair of contacts in said housing disposed one at each end of the latter, a switch arm carried by one disc and movable by rotation of said one disc in one direction into engagement with said contacts to close the switch, a stud on each of said two discs, such studs being engaged by said yoke when moving to its switch closing position to impart switch closing rotation to said one disc and similar rotation to said other disc, a first shaft extending transversely across said housing, a two lobed cam and a gear secured on said shaft, angularly spaced apart studs on said cam, a rod pivotally secured at one end to said yoke and having on its opposite end a detent engageable with the studs on said cam to rotate said cam through one fourth of a revolution each time said switch is closed, a lever pivotally connected intermediate its length to said housing and having one end in contact with said cam, a lug on the opposite end of said lever engaging in the notch in said one disc to hold said disc against rotation in a switch opening direction until said cam has been rotated through one half of a revolution, a spring connected between said yoke and said one disc permitting said yoke to move in a switch opening direction without rotating said one disc and spring biasing said one disc to move said switch arm in a switch opening direction when released from said lug, a second shaft extending transversely of said housing, a first gear on said second shaft having teeth meshing with the teeth on said other disc, a second gear on said second shaft meshing with the gear on said first shaft, a third shaft adjacent said second shaft, an escapement wheel on said third shaft, a gear on said third shaft secured to said escapement wheel, a third gear on said second shaft meshing with the gear on the third shaft, ratchet means interconnecting the gears on said second shaft for simultaneous rotation in one direction, a pallet lever mounted on said second shaft engaging said escapement wheel, a balance wheel on said first shaft operating said pallet lever, and a spring connected between said toggle yoke and said other disc for driving said other disc to rotate said cam through an additional one quarter revolution upon movement of said toggle lever to switch opening position, said disc rotating said cam through the escapement controlled gear train to thereby free said one disc from said lug for movement of said one disc in a switch opening direction at a predetermined time interval after said toggle lever has been moved to switch opening position.

2,614,183
CLOCK TRAIN PERIODIC SWITCH
Antonio Moutinho, Oakville, Conn.
Application June 28, 1950, Serial No. 170,845
1 Claim. (Cl. 200—37)

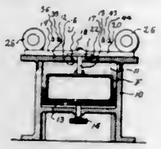
In a time switch for actuating an audible alarm bell associated with a chicken brooder for periodically scattering chickens which may have gathered together in crowds, a circular casing, a motor-driven time-controlled metallic switch arm mounted for rotation in front of said casing, a convex circular glass crystal located in front of said casing and connected therewith for embracing said switch arm, said crystal having a

resilient inwardly extending wire contact passing therethrough and cemented in an aperture therein adjacent the periphery thereof, the rear



terminal of said contact being located in the path of the outer portion of said switch arm for successive engagement thereby at regular repeated intervals.

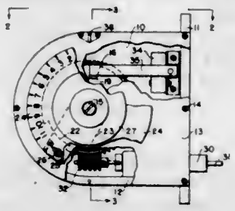
2,614,184
ELECTRICAL RELAY
Marion B. Robinson, Great Neck, N. Y.
Application September 19, 1944, Serial No. 554,814
13 Claims. (Cl. 200—52)



2. A relay device for use in an electrical circuit of a projectile, comprising contact means incorporated in said circuit, a needle arranged for rotating action so as to close said circuit through co-action with said contact means when influenced by an external magnetic force, said needle mounted in the device whereby the needle is set-back upon acceleration of the projectile, and bearing means for cushioning said needle against set-back during acceleration of said projectile, said bearing means comprising a buoyant yieldable element in which said needle is mounted, said yieldable element responding to said force of set-back so as to permit the withdrawal of said needle from co-action with said contact means whereby said needle is inoperative to close said circuit during said acceleration, said yieldable element further serving as a bearing member for permitting said rotating action so as to permit closing of said circuit through the influence of said magnetic force when the acceleration of said projectile has ceased.

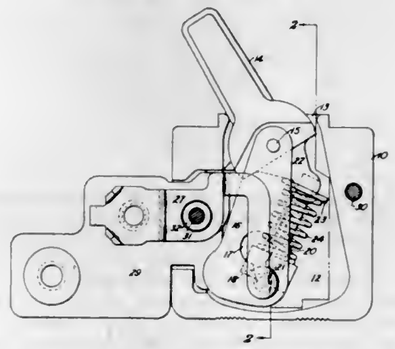
2,614,185
CONTROL FOR FLUID PUMPING AND DISPENSING MACHINES
Nelson R. Henry, Atlanta, Ga., assignor to R. Feldser, Atlanta, Ga.
Application December 10, 1949, Serial No. 132,344
6 Claims. (Cl. 200—56)

1. In a device of the class described, a casing, a gear mounted for rotation internally of said casing and being movable axially from extended to retracted position, a cam mounted for rotation and axial movement with said gear, means for rotatably adjusting said cam relative to said gear, indicator means movably mounted on said casing, a drive shaft rotatably supported in said casing, a worm on said drive shaft engaging said gear in extended position, said cam being driven indirectly by said worm acting through said gear means for moving said gear to retracted position, a switch mounted inside of said casing, and a



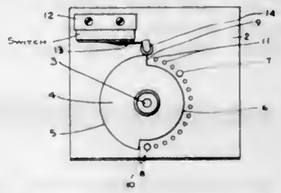
spring tensioned circuit breaker arm on said switch operable by said cam to open said switch.

2,614,186
SNAP SWITCH
Otis B. Sutton, Canton, and Herbert W. Wilson, North Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 16, 1948, Serial No. 49,562
4 Claims. (Cl. 200—67)



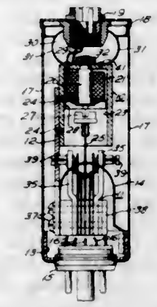
1. A toggle mechanism for a snap action switch comprising a generally U-shaped contact bridging means, means for pivotally supporting the upper ends of said U-shaped means for limited oscillatory movement between closed-switch and open-switch positions, an operating handle for said toggle mechanism, means providing a common pivotal axis for said handle and for the upper ends of said U-shaped means, said handle including a pivot arm positioned between the legs of said U-shaped means, a toggle strut comprising a single substantially flat, one piece, T-shaped member having a single leg and a single head of uniform thickness, a centrally disposed notch in the top edge of said T-head, a single centrally disposed annular groove in the bight portion of said U-shaped means having a width slightly greater than the thickness of said toggle strut for receiving and pivotally supporting the notched T head of said strut, the other end of said strut being disposed against one face of the pivot arm on said operating handle, a bearing plate having a dished central portion adapted to bear against the end of said pivot arm and a single slot adjacent thereto adapted to receive the end of said strut for free to and fro movement therethrough, and a compression spring supported between said bearing plate and the T head on said strut, said spring acting to hold the aforementioned elements of said toggle mechanism in assembled position as well as means for resiliently holding said U-shaped contact bridging means in either said closed-switch or said open-switch position.

2,614,187
DEVICE FOR PRODUCING TIMED ELECTRICAL IMPULSES
Gale Dorothea, Jackson Heights, N. Y.
Application October 23, 1950, Serial No. 191,624
8 Claims. (Cl. 200—90)



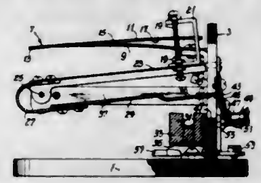
1. A device for producing periodically timed electric impulses comprising a base having affixed thereto a synchronous alternating current motor which is capable of self-starting and running in either direction and which, when rotation in one direction is restrained, will start itself rotating in the opposite direction, a cam rotated by said motor, the circumference of said cam being divided into two circular arcs, one of smaller radius than the other, with a relatively abrupt change of radius at the points at which said arcs meet, an electric switch mounted on said base, a follower riding on said cam and actuating said switch, said follower being so positioned that the switch is in one operating position while the follower is riding on the larger radius portion of the cam periphery and is in a different operating position while the follower is riding on the smaller radius portion of the cam periphery, a plurality of holes in said base disposed along an arc of radius intermediate between said larger and smaller radii of said cam periphery, and a pair of stops removably mounted in two of said holes, each of said stops being adapted to engage the cam periphery at said points of abrupt change in diameter to stop the cam rotation in one direction at a time and thus cause the cam and the motor to oscillate through an arc determined by the chosen positions of said stops.

2,614,188
VIBRATORY TYPE OF SYNCHRONOUS CONVERTER
Albert J. Williams, Jr., and Raymond E. Tarpley, Philadelphia, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 31, 1947, Serial No. 725,465
13 Claims. (Cl. 200—91)



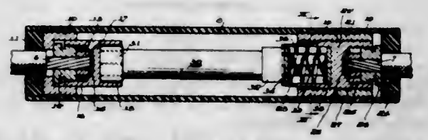
1. A synchronous converter comprising a driving coil energizable by alternating current, a vibrator reed carrying armature structure responsive to the alternating flux of said coil to effect vibration of the reed, spring contacts mechanically actuated by said reed, a tubular magnetic housing for said coil having an open-ended portion projecting beyond the coil and into which said reed substantially extends for confinement of the magnetic leakage of said coil to a region remote from said contacts, and a shield member within said housing and cooperating therewith electrostatically to isolate said contacts from said coil in avoidance of pickup by the contacts of electrical transients in the coil.

2,614,189
CURRENT LIMITER
Carl E. Mosley, Overland, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri
Original application August 12, 1948, Serial No. 43,890, now Patent No. 2,518,361, dated August 8, 1950. Divided and this application November 28, 1949, Serial No. 129,775
3 Claims. (Cl. 200—113)



1. In combination, a support, a pair of electrically conductive thermostatic blades each fixed at one end to the support and extending therefrom generally in coplanar side-by-side relation, an electrically conductive connecting member spanning the free ends of said blades and electric terminals at the fixed ends of said blades providing an electric circuit through said blades for electrical heating thereof, each of said pair of blades being formed of composite thermostat metal so that they flex and angle the connecting member when they are heated, a third thermostatic blade extending from the connecting member in spaced side-by-side relation with respect to said pair of thermostatic blades and adapted for angling movement with the connecting member, said third blade being formed of composite thermostat metal having substantially the same temperature-response characteristics as said pair of blades and isolated from flow of current therethrough, and a switch operated by and electrically insulated from the free end of said third blade.

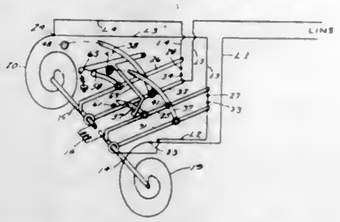
2,614,190
FUSED ELECTRICAL CONNECTOR
John F. Conrad, Ebensburg, Pa., assignor to Deltron Electric Products, Inc., Ebensburg, Pa., a corporation of Pennsylvania
Application October 26, 1950, Serial No. 192,259
2 Claims. (Cl. 200—115.5)



1. An electrical connector comprising a tubular body member of insulating material having an insulating apertured closure member at one end,

to receive a cable end, a conductive cable-holding device at the inner side of the closure member and having a conductive socket to receive one end of a fuse cartridge, a threaded bushing rigidly secured within the body member at its other end, a tubular cap member of insulating material engageable with said other end of the body member, and having a central hole for a cable, a threaded bushing rigidly secured within the cap member, a coupling member that is exteriorly threaded for connecting the two bushings and is centrally recessed in its inner end to serve as a cartridge-receiving socket and having a threaded recess in its outer end, alined with the hole in the cap, and an exteriorly-threaded gland engageable with the wall of the recess to clamp a cable against the inner end wall of this recess, the coupling member and the gland being of conductive material.

2,614,191
HIGH-VOLTAGE BREAKER AND RECLOSER
Bertram C. Rogers, Sharon, Pa.
Application May 11, 1949, Serial No. 92,662
5 Claims. (Cl. 200—116)



1. A circuit breaker and recloser having two pairs of series connected separable contacts, a pair of latch mechanisms interconnecting said separable contacts and normally holding said contacts in closed circuit position, a thermally responsive element in said circuit arranged to move one of one of said two pairs of separable contacts in response to overload current therethrough, a secondary thermally responsive element connected in a shunt circuit around said first pair of separable contacts and arranged to move one of the other one of said two pairs of separable contacts responsive to current flow therethrough, and means engageable with one of the said latch mechanisms upon predetermined movement of said first mentioned pair of separable contacts to unlatch said latch mechanisms to permit said first mentioned pair of separable contacts to open and means engageable with the other of said latch mechanisms to unlatch the second mentioned pair of separable contacts responsive to movement thereof occasioned by said secondary thermally responsive element, and secondary latch means for holding said movable contacts in open position and responsive in releasing action to reverse motion of said thermally responsive elements as occasioned by the cooling thereof.

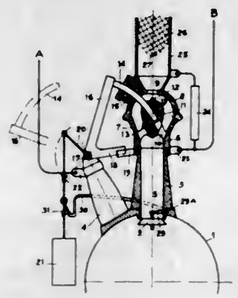
2,614,192
FUSE LINK
Glen Appleman, Bethlehem, Pa., assignor to W. N. Matthews Corporation, St. Louis, Mo., a corporation of Missouri
Application June 13, 1951, Serial No. 231,335
4 Claims. (Cl. 200—123)

1. A fuse link comprising spaced terminals mechanically and electrically connected by a fast-acting fuse unit and a slow-acting fuse unit, said units being connected together in series mechanically and electrically between the terminals to carry current and to take mechanical stress resulting from tensioning of the link as long as both units are intact, both the mechanical and electrical connection being broken when either unit fuses, said slow-acting unit comprising an elongate slender member of heat-conductive material isolated from flow of current



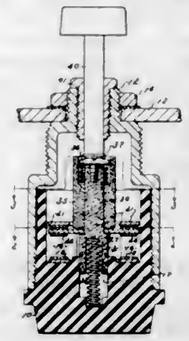
between the terminals, an electrically conductive heat accumulator element at one end of said member for storing heat received by conduction through said member, a body of fusible material in contact with the heat accumulator element and forming a fusible element in the connection of the terminals, a sleeve of thermal and electrical insulating material surrounding said member, and an electrical resistance heating coil surrounding said sleeve, the coil being connected to carry current flowing between the terminals.

2,614,193
AIR BLAST CIRCUIT BREAKER WITH SWITCHING RESISTANCE
Michel Cremer, Paris, France, assignor to Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France, a corporation of France
Application July 18, 1950, Serial No. 174,524
In France August 2, 1949
9 Claims. (Cl. 200—148)



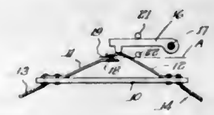
1. In an air blast circuit breaker of the conventional type having two fixed contacts interconnected by a resistance, a movable cooperating contact adapted to form successively two arcs and a metallic nozzle of the axial type for blowing out the first of said arcs, means for improving the operation and simplifying the design comprising a relatively large central electrode of substantially ovoid aerodynamic form connected to one pole of the external circuit, mounted coaxially with said nozzle and adapted to enclose the first of said fixed contacts which is positioned in such a direction that the inlet opening of said first contact is located close to the axis of said nozzle, an arcing tip fixed axially upon said electrode at a suitable distance from said nozzle, and a metallic extension on a side of said nozzle adapted to enclose the second of said fixed contacts in electric connection with said nozzle, said movable contact being pivoted for separating from both said fixed contacts in such a direction that the first arc is formed in the vicinity of said arcing tip.

2,614,194
SWITCH STRUCTURE
Ray F. Lester, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application February 7, 1950, Serial No. 142,732
4 Claims. (Cl. 200—159)



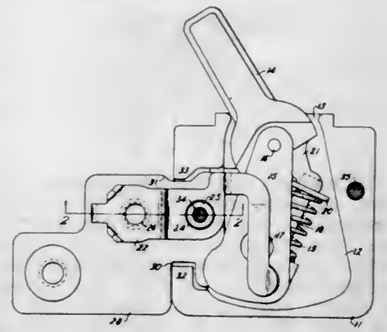
4. A switch comprising a body formed with a recess, a pair of lower contacts fixedly mounted in proximity to the bottom wall of said recess, a pair of upper contacts fixedly mounted in said recess above said lower contacts, a central bore formed in the bottom wall of said recess, a stem having an enlarged end portion slidably mounted in said bore, a bridging contact slidably mounted on the stem and being formed with projections slidably engaging with the side wall portions of the recess, a sleeve slidably mounted on said stem and having sliding contact with the side wall portions of the recess, spring means cooperable with said stem and sleeve to yieldingly urge said sleeve against said contact and the latter against the enlarged end portion of the stem, a second spring positioned in said bore and yieldingly urging said stem upwardly and maintaining said bridging contact in engagement with said upper contacts, and actuating means operable to effect downward movement of the stem to move said bridging contact into engagement with said lower fixed contacts.

2,614,195
ELECTRICAL CONTACT ASSEMBLY
William H. Kitto, Evanston, Ill., assignor to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application October 27, 1949, Serial No. 123,849
3 Claims. (Cl. 200—166)



1. A contact combination comprising a movable upper contact member movable between an upper position and a lower position, a free and normally stationary resilient lower contact member engaged by the upper contact member at an intermediate position in the movement of the latter from the upper position to the lower position, said lower contact member originally engaging the upper contact member at its upper position and initially stressed beyond its elastic limit upon initial movement of the upper contact member from its upper position to its lower position for thereafter assuming a free intermediate position out of engagement with the upper contact member when the latter is in its upper position.

2,614,196
SWITCH CASING
Herbert W. Wilson, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 16, 1948, Serial No. 49,563
6 Claims. (Cl. 200—168)



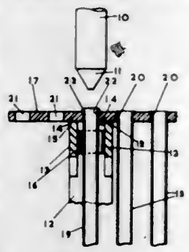
1. A terminal anchorage for switch mechanisms comprising a two-part switch casing having meeting surfaces between two opposed sides thereof, an integral boss on each of said casing parts, separate switch terminal elements adapted to fit one about each of said bosses, an insulated separator element adapted to be received in part by one boss and in part by the other boss to hold said terminals apart and in assembled position on said bosses, and means for holding said casing parts assembled.

2,614,197
FLEXIBLE SHAFT REMOTE-CONTROL SWITCH
Richard D. Lightfoot, Oak Park, Ill.
Application July 26, 1950, Serial No. 176,049
4 Claims. (Cl. 200—172)



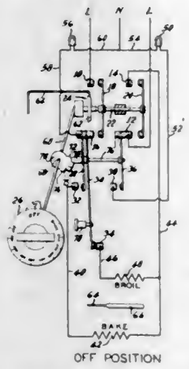
1. For a hospital nurse call switch, a remote control therefor comprising a depressible button-type switch, a flexible housing with one end thereof connected to said remote control switch and having operatively disposed therein a flexible shaft having one end connected to the button of said remote control switch, a bracket secured to the other end of the flexible housing and adapted for removable attachment to the nurse call switch, and means including a cup shaped member carried by the other end of the flexible shaft, and engageable with the button of the nurse call switch, whereby manual force exerted upon the button of the remote control switch will be translated to the button of the nurse call switch to operate the same, said depressible button-type switch having spring means to urge said button back to the original position immediately upon release of said manual force, and said nurse call switch having means to maintain the same in operative position until manually released.

2,614,198
HEAT EXCHANGER
Raymond W. Avery, Kings Norton, Birmingham, and Kenneth J. Dangerfield, Selly Oak, Birmingham, England, assignors to The Austin Motor Company Limited, Birmingham, England
Application November 27, 1951, Serial No. 258,324
In Great Britain December 13, 1950
5 Claims. (Cl. 219—10)



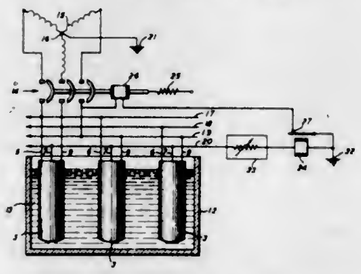
1. The method of resistance welding a tube to a plate, wherein the tube is receivable within an opening in the plate and the exterior wall of the tube adjacent the end thereof contacts the metal of the plate around said opening, which comprises supporting the plate at one side thereof at spaced apart points spaced from the wall of the tube, moving an electrode into engagement with the end of said tube at the other side of the plate, and passing a welding current from said electrode through the metal of the tube end and the immediately surrounding metal of the plate to said spaced apart points of support, said current being maintained for a sufficient period to insure fusion of the tube and the plate.

2,614,199
CONTROL SYSTEM FOR ELECTRIC APPLIANCES
David Gedde Fallon, Jersey City, N. J., assignor to The Wilcolator Company
Application September 9, 1950, Serial No. 183,951
10 Claims. (Cl. 219—20)



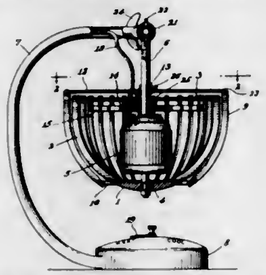
1. In a control system for an electrically heated appliance, a pair of current supply conductors, a circuit including a heating element, a thermostat responsive to the temperature of the appliance, a dial for setting the thermostat, a double pole switch controlled by the thermostat for connecting and disconnecting the conductors respectively with the opposite sides of the circuit, a separate switch in the heating element part of the circuit biased to closed position, a pilot light circuit including a pilot light connected into at least one of said conductors in advance of the thermostatically controlled switch and having a switch therein biased to closed position, said pilot light switch and said heating element switch each including a spring switch blade, said blades being mounted in parallel, means associated with said switch blades for actuating them in unison, and a common actuating means operatively associated with the dial and with said means for actuating the heating element switch blade and the pilot light switch blade for simultaneously moving the heating element switch and the pilot light switch to open position when the dial is turned to "off" position, said actuating means being adapted to release the switches actuated thereby to their biased positions when the dial is turned from the "off" position, whereby said pilot light will be lighted when the actuating means releases the switches controlled thereby.

2,614,200
LEAK DETECTOR FOR IMMERSION HEATERS
Irving M. McNair, Emmaus, Pa., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 11, 1950, Serial No. 178,820
6 Claims. (Cl. 219—38)



1. In a heating system for liquids, the combination with a tank containing liquid to be heated, an electric heater having an insulating sheath enclosing a heater element immersed in the liquid and a source of power connected to the heater element, of an auxiliary electrode within the sheath normally insulated from the element and a circuit connected to the electrode and energized upon a leakage of the liquid through the sheath for disconnecting the heater element from the source of power.

2,614,201
ELECTRIC FAN WITH HEATING ATTACHMENT
Peter Varis, Long Beach, Calif.
Application May 8, 1950, Serial No. 160,663
5 Claims. (Cl. 219—39)



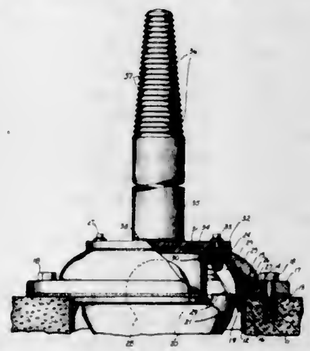
1. Apparatus comprising a cage-like framework containing fan-blades and a cage-like framework enveloping the first-named framework, and containing deflector blades in the periphery thereof, means for rotatably mounting the first-named framework, and means for maintaining the other framework stationary, said apparatus also having a heater member rigid with the outer framework and disposed within the framework of said fan blades.

2,614,202
AIR CONDITIONING APPARATUS
Paul Otto Jordan, Hudson, Wis.
Application May 25, 1950, Serial No. 164,069
8 Claims. (Cl. 219—39)



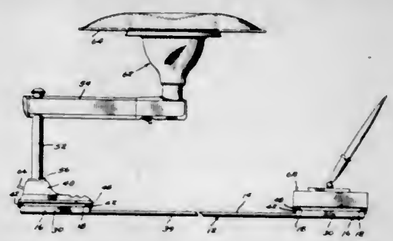
8. In an air conditioning apparatus, a hollow body having an inlet opening, members at locations of said hollow body spaced from said inlet opening and from each other providing outlet passages from the hollow body, a manually adjustable damper in each of said outlet passages for controlling travel of air therethrough, an electric motor, a circulating fan connected to said electric motor to be driven thereby, heating lamp receptacles supported by said hollow body and situated adjacent said members, and means supporting said heating lamp receptacles for adjustment relative to said hollow body.

2,614,203
RUNWAY MARKER FOR AIRPORTS
Harry Dalton, Jr., and Thomas M. Macario, Philadelphia, Pa.
Application April 19, 1948, Serial No. 21,874
1 Claim. (Cl. 240—1.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A marker light for airfields comprising a receptacle for enclosing an electric light bulb, said receptacle being adapted to be imbedded in the ground with the top thereof projecting slightly above the ground surface, the side walls of the receptacle above the ground being formed of light-transmitting material, a light-transmitting, organic, plastic top wall in said receptacle, said top wall being exposed at least in part for projecting light upwardly into space above the ground, a cylindrical rod disposed completely externally of said receptacle and extending upwardly from the exposed part of the top wall so that light is conducted from the top wall through the rod, said rod being formed of a single piece of light-conducting, organic, plastic material, said rod remote from said top wall and the ground being tapered and formed with a series of V-shaped, transverse, perimetric serrations for projecting light into space above the ground, and a light-transmitting, organic, plastic cement for securing said rod to said top wall, said cement being such as to fail under a predetermined stress less than that required to break said rod or receptacle, whereby failure of said cement at said predetermined stress permits toppling of said rod from such receptacle without breaking of said rod or receptacle.

2,614,204
DESK LIGHTING UNIT AND WORK SURFACE
Earl L. Canfield, Essex, Conn.
Application November 22, 1948, Serial No. 61,485
2 Claims. (Cl. 240—2)



1. A desk lighting unit having a broad, flat substantially rigid base adapted to rest upon the surface of a desk or the like and to provide a work surface of extended area, said base having a track member thereon, a lamp base slidably mounted on said track member and a lamp unit carried by said lamp base, said lamp unit including a lamp supporting arm extending laterally from the base at a distance above the same, and angularly adjustable with relation thereto, and a lamp carried on the adjustable end of said supporting arm, said lamp base having formations interlocking with the track so as to permit sliding of the base along the track while preventing tilting of the lamp unit with respect to the plane of the work surface.

2,614,205
ILLUMINATING DEVICE FOR INSTRUMENT PANELS
John M. Roper, Washington, D. C., and Thomas O. Twist, Chevy Chase, Md.
Application September 21, 1948, Serial No. 50,342
2 Claims. (Cl. 240—2.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The combination comprising an instrument board of electrical conducting material adapted

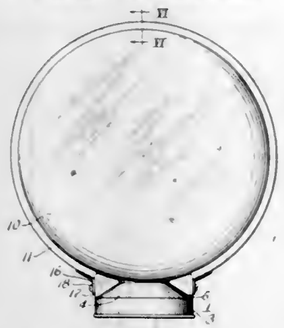
for mounting instruments thereon, a cover for a single instrument mounted on said board in grounded relation therewith and adapted to fit over the face of an instrument, lamp means mounted on said cover and having one terminal thereof grounded to said cover, an insulated conducting plate positioned between said cover and board, said plate having a contact portion, a contact pin connected to the other terminal of said lamp means and insulatedly mounted on said cover rearwardly thereof, and said pin and plate contact portion being arranged relative to each other whereby the lamp circuit is completed when the cover is mounted on the board with the plate positioned therebetween.

2,614,206
FLASHLIGHT ASSEMBLY HAVING COMBINED SUPPORT AND VISOR MEANS
Dow Goad, Flippin, Ky.
Application June 3, 1949, Serial No. 96,863
1 Claim. (Cl. 240—52.5)



A flashlight and support assembly comprising a cylindrical flashlight having a light-emitting end, a flexible band surrounding said flashlight near the light-emitting end of the latter, and a visor-shaped support having a tongue thereon encircling said band to secure said support to said flashlight, said support being movable around said flashlight and movable forwardly and rearwardly of the light-emitting end of the flashlight to serve as a visor or as a support for the flashlight.

2,614,207
SUPPORT FOR ILLUMINATED GLOBE USED ON GASOLINE PUMPS
Kenneth F. Smith, Lima, Ohio, assignor to Neon Products Inc., Lima, Ohio, a corporation of Ohio
Application March 28, 1950, Serial No. 152,397
3 Claims. (Cl. 240—100)



1. A lighting fixture adapted to house a light source and comprising a hollow base having a hollow neck extending upwardly therefrom and a housing mounted on said neck and secured to said base, said neck extending upwardly into said housing, said housing comprising an inner split ring having its ends attached to said base on opposite sides of the neck, said inner ring being disposed vertically to said base, a translucent face shell on each side of said inner ring, each shell having an outwardly extending peripheral flange, said shell flanges abutting the opposite sides of said inner ring, an outer, split retaining ring of channel shape in section embracing the flanges of said shells and said inner ring, and means for securing the ends of said retaining ring to said base at locations adjacent the respective ends of said inner ring.

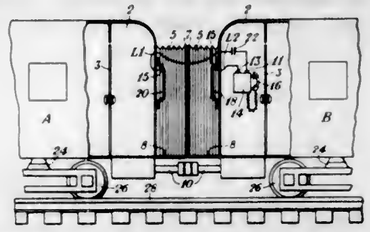
2,614,208
SWITCH OPERATING MEANS FOR STAND LAMPS
John G. Lambesis, Chicago, Ill.
Application January 5, 1951, Serial No. 204,667
3 Claims. (Cl. 240—123)



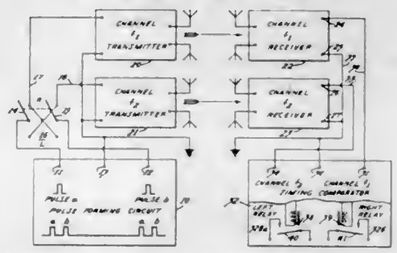
3. In an electric lamp: a base; an on-and-off switch mounted on said base; a spring biased plunger for operating said switch; a movable member horizontally disposed above said plunger, the center of said movable member being engageable with said plunger; spring means between said base and said movable member, biasing said movable member upwardly; a retaining element overlying a substantially continuous portion of said movable member completely around the point of contact with said plunger, and leaving exposed a substantially continuous circumferential area thereof which may be depressed at any point, whereby a point on said movable member diametrically opposite the depressed point bears against the retaining member which serves as a pivot point therefor, said movable member thereby acting as a lever to exert a downward force on said plunger.

2,614,209
INDUCTIVE RAILWAY TRAIN COMMUNICATION SYSTEM
Andrew J. Sorensen, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application November 29, 1947, Serial No. 788,945
6 Claims. (Cl. 246—8)

1. The method of communicating between a car of a passenger train and a wayside station when the train is more than a predetermined distance from the station, comprising the steps of transmitting from said car communication energy on a first carrier frequency and at a relatively low power level incapable of providing communication between said car and said station, inductively receiving the communication energy on a locomotive of the train, retransmitting the intelligence of the communication energy on a second carrier frequency and at a relatively high power level, inductively receiving the retransmitted communication energy at said station, replying at said station on said first carrier frequency and at a relatively high power level, and inductively receiving the reply communication energy at said car.



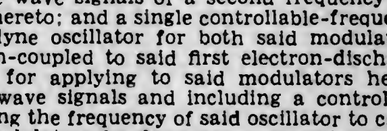
2,614,210
PULSED RADIO SIGNALING
Ellison S. Purington, Gloucester, Mass., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Original application May 18, 1944, Serial No. 536,104, now Patent No. 2,465,925, dated March 29, 1949. Divided and this application June 29, 1945, Serial No. 602,234
6 Claims. (Cl. 250—10)



1. A radio signalling system comprising radio transmitting means to propagate radiant energy on a plurality of radio frequency channels, a pulse forming circuit to form a series of energy pulses having a predetermined time sequence, means modulating said radio transmitting means with said pulses to selectively propagate the individual pulses of said series on different radio frequency channels, means controlling the relative sequence in frequency of said pulses on the various channels for signalling, radio receiving means responsive to said radiated pulses including means selective of the pulses on the various channels, and a circuit selective of the pulse sequence on the various channels connected to respond only to a predetermined relative sequence and only two said pulses being within a predetermined time interval of each other.
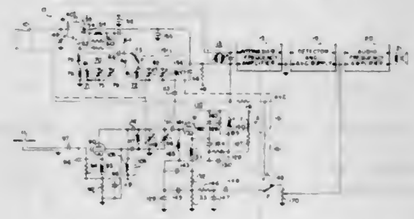
2,614,211
FREQUENCY CONTROLLED RADIO RELAYING SYSTEM
William M. Goodall, Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 13, 1950, Serial No. 161,881
13 Claims. (Cl. 250—15)

1. In a system for converting electrical waves of a first frequency to waves of a second frequency having a constant difference from said first high frequency, the combination of a source of waves of a third frequency, a source of waves of a fourth frequency, means for combining the waves of said first and third frequencies to produce a resultant frequency, means responsive to said resultant frequency for automatically regulating said third frequency so as to maintain said resultant frequency constant, means for combining the waves



of said fourth and said resultant frequencies to produce said second frequency waves, and means responsive jointly to the waves of said second and third frequencies for regulating the said fourth frequency so as to maintain a constant difference between said first and second frequencies.

2,614,212
FREQUENCY CONVERTER SYSTEM FOR RADIO RECEIVERS
Bernard D. Loughlin, Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 19, 1948, Serial No. 61,055
1 Claim. (Cl. 250—20)

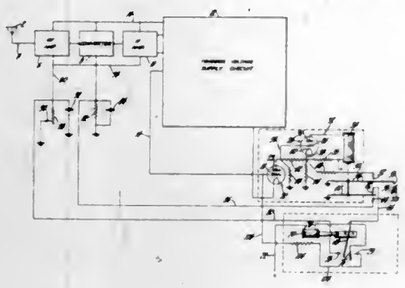


A frequency-converter system for effecting translation of modulated wave signals, having individual different frequencies, selectively through either of two wave-signal translating channels comprising: a first modulator, including a first electron-discharge device included in only one of said channels, adapted to have wave signals of a first frequency applied thereto; a second modulator, including a self-quench superregenerative amplifier having a second electron-discharge device in only the other of said channels, adapted to have wave signals of a second frequency applied thereto; and a single controllable-frequency heterodyne oscillator for both said modulators, electron-coupled to said first electron-discharge device, for applying to said modulators heterodyne wave signals and including a control for adjusting the frequency of said oscillator to cause said modulators by frequency conversion selectively to translate individual ones of said applied wave signals, said heterodyne oscillator forming with said superregenerative amplifier a self-quench superregenerative system for deriving in said amplifier the modulation components of said wave signals of said second frequency.

2,614,213
SIGNAL ACTUATED TUNER CONTROL
Andrew G. Tynan, deceased, late of Kokomo, Ind., by Geneva Ruth Tynan, administratrix, Kokomo, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 1, 1950, Serial No. 153,442
3 Claims. (Cl. 250—20)

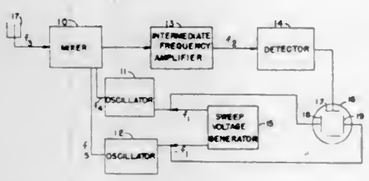
1. In radio receiving apparatus, power actuated tuning means for scanning the spectrum between

prescribed limits, conductive means upon which a voltage is developed by an incoming signal, electronic means having a control element connected to the conductive means and in turn controlling the power actuated means, a grounding circuit



connected to the control element, and switching means in the grounding circuit located in the path of movement of the power actuated means and operated by movement thereof to disable the electronic control means during a portion of the cycle of the power actuated means.

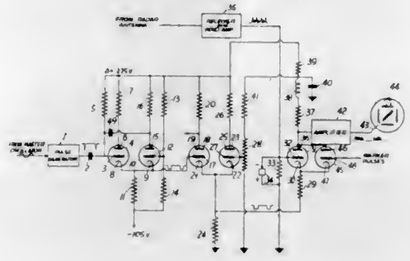
2,614,214
PANORAMIC RECEIVER
Gilbert J. Perlow, Washington, D. C., and Joseph M. Kelly, Arlington, Va.
Application August 6, 1945, Serial No. 609,300
5 Claims. (Cl. 250—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A panoramic radio frequency receiving system, comprising a pair of local oscillators each operative at a distinct frequency several times higher than the incoming signal frequency, mixer means combining the difference frequency energy of said oscillators with the incoming signals to produce a heterodyne output, a cathode ray tube indicator receiving said heterodyne output, and means sweeping the beam of said cathode ray tube across the face thereof and synchronously varying the frequency of said local oscillators in opposed directions.

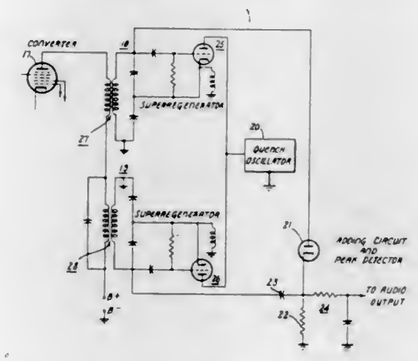
2,614,215
ELECTRONIC GATING CIRCUITS
Harvey Karp, Waltham, Mass., Robert R. Darden, Jr., Solromar, Calif., and Michael F. Kolodziej, Waltham, Mass., assignors to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 15, 1949, Serial No. 76,492
10 Claims. (Cl. 250—27)

1. An electrical circuit comprising a signal input channel, a gating tube fed by said channel, a source of rectangular pulses, means fed by said source and connected to said gating tube for applying said pulses to said gating tube to periodically render said tube nonconductive to signals from said channel and for preventing changes in conduction of said gating tube from affecting



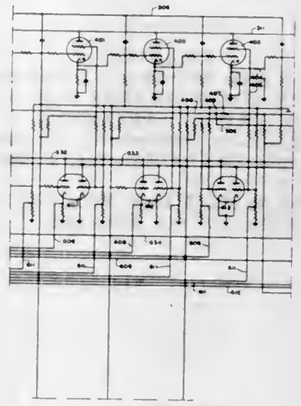
said pulse source, and a phase-inverting amplifier connected to said gating tube whereby small signals which are amplified a small amount relative to large signals by said gating tube will be amplified a large amount relative to large signals by said amplifier.

2,614,216
SUPERREGENERATIVE DETECTOR
Joseph C. Tellier, Penn Wynne, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application September 8, 1949, Serial No. 114,623
9 Claims. (Cl. 250—27)



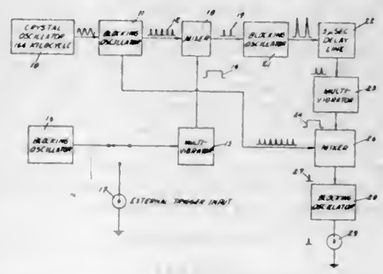
1. In a frequency-modulation receiving system; a first superregenerative amplifier and a second superregenerative amplifier, said first and second amplifiers being tuned to a predetermined common carrier frequency, and quenching means for simultaneously quenching and simultaneously unquenching said first and second amplifiers; a source of frequency-modulated carrier wave; means coupling said source to said first superregenerative amplifier and means coupling said source to said second superregenerative amplifier, at least one of said coupling means including a phase-shifting device whereby the phase of the carrier wave applied to said first amplifier is different from that applied to said second amplifier and the magnitude of said phase difference varies as a function of the frequency of said carrier wave; means for combining the output voltages developed by said first and second amplifiers; and means for peak detecting the resultant voltage.

2,614,217
ELECTRONIC DISTRIBUTOR
Theodore A. Hansen, Park Ridge, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Original application October 15, 1948, Serial No. 54,772. Divided and this application October 29, 1949, Serial No. 124,270
11 Claims. (Cl. 250—27)



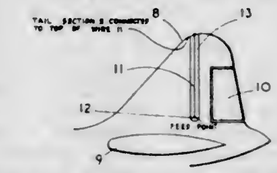
1. In an electronic distributor of the closed chain type, comprising a plurality of tubes which are operated successively in a closed chain, each tube conditioning the succeeding tube in the chain, and means connected in circuit with predetermined ones of said tubes for preventing their operation in said distributor but not affecting the closed chain operation of the remainder of said tubes in said distributor.

2,614,218
TIMING DEVICE
Noel W. Hancock, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application November 23, 1949, Serial No. 128,980
8 Claims. (Cl. 250—27)



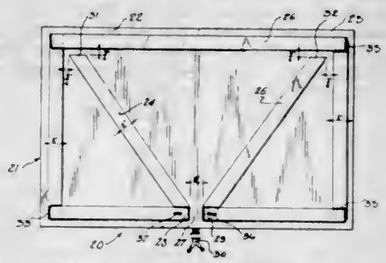
1. A master timer for obtaining a plurality of control pulses accurately spaced in time comprising, a master oscillator producing a pulsed output, a first multivibrator producing a gate slightly longer than the time between adjacent pulses of the oscillator output, keying means connected to said first multivibrator to trigger it, a first mixer receiving an output from said master oscillator and an output from said first multivibrator, a first delay line receiving the output of said mixer and delaying it for a time less than the time between adjacent pulses, a second multivibrator receiving the output of said delay line and forming a gate in response thereto, a second mixer receiving an output from said master oscillator and the output of said second multivibrator, said second mixer passing a first control pulse in response to the gate from said second multivibrator, a second delay line receiving an output from said second mixer to delay it for a time less than the time between adjacent pulses, a third multivibrator receiving the output from said second delay line and forming a gate in response thereto, a third mixer receiving an output from said master oscillator and an output from said third multivibrator, and said third mixer passing a second control pulse in response to the gate from said third multivibrator.

2,614,219
AERIAL SYSTEM
Rex Henry John Cary, Great Malvern, England, assignor to the Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland
Application March 14, 1949, Serial No. 81,301
In Great Britain September 30, 1947
22 Claims. (Cl. 250—33)



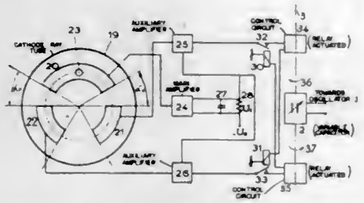
1. A folded unipole aircraft antenna system comprising a metallic portion of a projecting part of the aircraft structure forming the grounded arm of the folded unipole, a conducting element mounted within the aerodynamic outline of said projecting part of the aircraft structure and electrically connected to said metallic portion at one extremity to form the fed arm of the folded unipole, and means for connecting a radio frequency feeder to the other extremity of said conducting element.

2,614,220
TELEVISION ANTENNA
Steve T. Doerner, Chicago, Ill.
Application June 8, 1950, Serial No. 166,962
5 Claims. (Cl. 250—33)



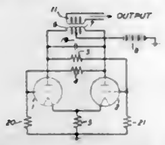
1. A television antenna comprising metallic ribbon formed to define a generally rectangular shape with two angularly disposed segments of said metallic ribbon disposed on the same plane and within the confines of the rectangular shape, each of said angularly disposed ribbon segments having one end portions thereof respectively disposed in proximity to adjacent corners of said rectangle and the other end portions thereof respectively defining terminals for attachment of lead wire.

2,614,221
FREQUENCY CONTROL DEVICE
Pierre Moll, Paris, France
Application February 26, 1948, Serial No. 11,288
In France March 7, 1947
7 Claims. (Cl. 250—36)



1. A radiant energy device for controlling the frequency of an oscillator comprising an oscillator having an output frequency to be controlled, including a frequency adjusting element, a cathode ray device having at least a grid, two pairs of ray deflecting plates and a target electrode, means for supplying to one pair of said deflecting plates said output frequency and a component thereof differing in phase by 90° to the other pair of plates, means for generating pulses at a pilot frequency connected to supply said grid for controlling the beam of the tube, a main and two subsidiary elements disposed in the path of the cathode ray forming said target electrode, said subsidiary elements being separated from one another and in symmetrical relation with respect to said main element, means for translating signal voltages of the respective elements of said target, means for deriving a controlling bias voltage from the translating means of said main element in accordance with the position of the cathode ray beam thereon, means for applying said bias voltage to the translating means of said subsidiary elements for control thereof, and means connected to the respective translating means of said subsidiary elements for controlling the actuation of said frequency adjusting element in one and the other sense operatively connected to said adjusting element.

2,614,222
WAVE GENERATING CIRCUITS
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 9, 1949, Serial No. 97,954, which is a division of application Serial No. 484,324, April 24, 1943. Divided and this application July 31, 1951, Serial No. 239,454
2 Claims. (Cl. 250—36)



1. An oscillation generator of the multivibrator type comprising a pair of like electron discharge tubes each having a cathode, an anode and a control grid, control grid-cathode circuits for said tubes including a common cathode resistor and two equivalent resistors one of which is connected in series with said common resistor between the control grid and cathode of each of said tubes, anode-cathode circuits for said tubes connected in push-pull relation with respect to each other, including a common source of space current and two equivalent inductance coils one of which is connected between said source and the anode of each of said tubes, a capacitor shunted across the two inductance coils in series, equivalent resistance connections between the anode of each tube and the control grid of the other tube and an output circuit symmetrically coupled to the two anode-cathode circuits for taking off the generated oscillations.

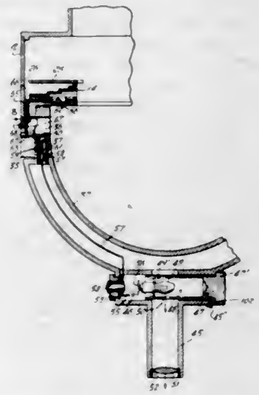
2,614,223
METHOD OF AND APPARATUS FOR MAKING ELECTRON-MICROGRAPHS OF OPAQUE METALLOGRAPHIC SPECIMENS
Edward G. Ramberg, Feasterville, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application August 3, 1949, Serial No. 108,352
5 Claims. (Cl. 250—49.5)



3. An electron microscope for the examination of electrically conductive heterogeneous surfaces, said microscope comprising: a specimen holder, means for subjecting the surface of a specimen mounted on said holder to an electric current whereby to establish adjacent to the exterior of said surface an electric field of a heterogeneous intensity corresponding to the physical characteristics of the various elemental areas of said specimen, a source of electrons, means for deriving a beam of electrons from said source and for directing said beam upon said electric field whereby said electrons are reflected from said field in proportion determined by the heterogeneous potentials of said field adjacent to said different elemental areas of said surface, and an electron-sensitive target mounted in the path of said reflected electrons for converting said reflected electrons into a light image.

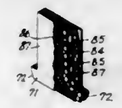
2,614,224
RADIOGRAPHIC EQUIPMENT
Arthur Wright, Mountain Lakes, N. J., assignor to Wright Engineering Company, Mountain Lakes, N. J., a corporation of New Jersey
Application May 25, 1948, Serial No. 29,087
3 Claims. (Cl. 250—64)

1. An attachment for an X-ray machine comprising a casing having means therein for controlling the exposure aperture, a bracket trunnioned to one side of the casing about an axis disposed a right angles to the X-ray beam, said bracket being movable from a horizontal to a vertical position and carrying a light source centering means which is in alinement with the aperture and the target when in the vertical position, and control means for energizing said light source comprising a contact carried by the bracket in the vicinity of the trunnion, an insu-



lating sleeve about said trunnion and an opening in said sleeve permitting the contact to engage the trunnion when the lamp is in the centering position.

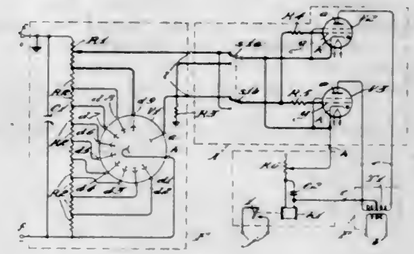
2,614,225
FILM PACKET FOR USE WITH DENTAL X-RAY MACHINES
Isadore Shapiro, Albany, N. Y.
Original application October 2, 1946, Serial No. 700,805. Divided and this application June 17, 1950, Serial No. 168,728
4 Claims. (Cl. 250—69)



1. A film packet for photographing teeth in a patient's mouth comprising a sensitized film enclosed in a protecting covering, said packet including a body portion and a lower edge portion adapted to seat snugly in a slot in a supporting shaft, the ends of said edge portion being inclined downwardly and inwardly in opposite directions to seat on similarly inclined ends of said slot to position the packet in the slot with the body portion extending laterally from the shaft, said inclined ends of the film being located equal distances on opposite sides of the center of the film so that when seated in the slot the film is centered in the slot by the inclined walls of the packet and the slot.

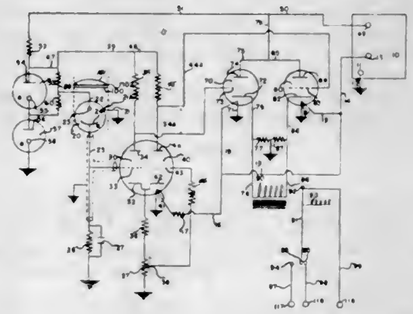
2,614,226
PHOTOELECTRIC DEVICE
Flavius E. Davis, III, Jackson, Mich.
Application November 9, 1950, Serial No. 194,889
6 Claims. (Cl. 250—207)

1. For coupling to an amplifier tube a multipler phototube having a series of dynodes and an anode, an output circuit comprising output terminals for connection to the control grid and cathode of said amplifier tube, a potentiometer having a resistance element connected between one of said dynodes and a point of more positive potential and an adjustable tap connected between said element and one of said output terminals, and a connection between said anode and the other of said output terminals, whereby



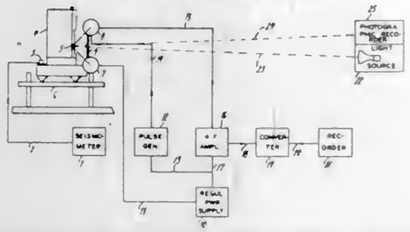
the output circuit may provide a bias control for the amplifier.

2,614,227
CATHODE FOLLOWER PHOTOELECTRIC DIRECT CURRENT AMPLIFIER CIRCUIT
Robert W. Bordewieck, Southboro, and James O. Roebuck and Neal M. Sleeper, Worcester, Mass., assignors to Moore Electronic Laboratories, Incorporated, Worcester, Mass., a corporation of Massachusetts
Application August 6, 1949, Serial No. 108,978
6 Claims. (Cl. 250—214)



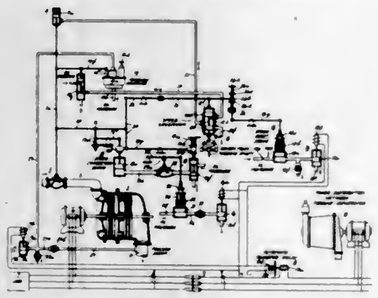
1. An amplifier circuit comprising a source of electrical energy, a single stage voltage amplifier including an electronic amplifier tube having two similar electron paths with each electron path including at least a control grid, an anode, and a cathode element, a photo sensitive pickup device connected by its anode to the source of electrical energy and by its cathode to one of the control grids of the said amplifier tube, plate load resistors connected from the anodes of the said amplifier tube to the source of electrical energy, means including resistance connecting the cathodes of the amplifier tube to the low voltage return of the source of electrical energy, a power amplifier stage including a pair of electronic tubes connected as cathode follower stages, each tube containing at least an anode, a control grid and a cathode, said cathode follower tubes having their anodes connected directly to the source of electrical energy, and having their grids connected directly to the respective anodes of the aforementioned voltage amplifier tube and having cathode follower current limiting resistors connected between their respective cathodes and the low voltage return of the source of electrical energy, and a low impedance load device adapted to be connected between the cathodes of the said cathode follower stages.

2,614,228
SYSTEM OF SEISMOGRAPHIC VISUAL RECORDING
Joseph A. Volk, Normandy, Mo.
Application October 5, 1949, Serial No. 119,696
1 Claim. (Cl. 250—214)



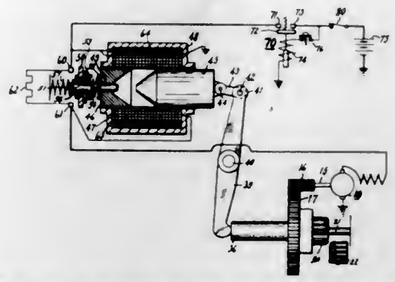
A system of seismographic visual recording comprising a seismometer operatively connected with a galvanometer having a mirror located therein, an exciter lamp for projecting a ray of light upon said mirror to be deflected thereby to a photoelectric cell, a pulse generator for supplying a pulsed current to said photoelectric cell, an audio frequency amplifier for receiving the modulated pulsed current from the photoelectric cell, a converter for receiving said modulated pulsed current from said amplifier for rectifying said current from A. C. to D. C., said pulse generator, exciter lamp, photoelectric cell, and audio frequency amplifier and converter being electrically connected with a regulated power supply, and means for transmitting the amplified modulated A. C. components to said converter, the rectification of the A. C. components into D. C. components being directly proportionate to the modulated light beam falling upon the photoelectric cell.

2,614,229
MULTIPLE GOVERNING SYSTEM FOR TURBINE WITH AUTOMATIC TRANSFER
Jack M. Baker, South Peabody, Mass., assignor to General Electric Company, a corporation of New York
Application January 4, 1952, Serial No. 264,928
7 Claims. (Cl. 290—4)



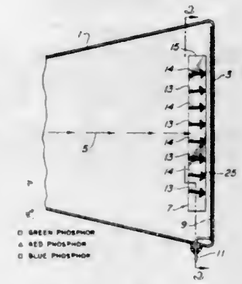
6. In a governing system for an elastic fluid turbine having a throttle valve for regulating the supply of motive fluid thereto and motor means for establishing the position of the throttle valve, the combination of isochronous speed governor means connected to control the throttle valve positioning motor, a first speed setting servo mechanism connected to the speed governor to establish the speed to be maintained thereby, other mechanism adapted to control the positioning of the throttle member in accordance with an operating condition other than speed in normal operation, second servo mechanism for disabling said other governing mechanism, the isochronous speed governor comprising a speed responsive device connected to position the throttle motor to hold a speed determined by said first servo mechanism, linkage means connected to the throttle valve to produce a follow-up effect on the speed governor, and third hydraulic speed corrector servo mechanism connected to said linkage to modify the action of the speed governor to effect isochronous governing, the hydraulic speed corrector including fourth hydraulic motor means with a pilot valve adapted to regulate the supply of operating liquid thereto to effect the speed correcting function, conduit means connecting said pilot and fourth hydraulic motor and including variable flow restricting means for limiting the rate of supply of operating liquid to said fourth motor, said flow restricting means having an open position and a minimum flow position, fifth hydraulic servo mechanism for causing said flow restricting means to move from its open position to its minimum flow position at a preselected rate of travel, and means for simultaneously effecting actuation of said first servo mechanism to establish the speed setting of the isochronous governor and effecting actuation of said second servo mechanism for disabling the other governing means and effecting actuation of said fifth servo mechanism to render the speed corrector operative after a preselected time interval.

2,614,230
ENGINE STARTING APPARATUS
Paul L. Schneider, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 28, 1948, Serial No. 57,056
4 Claims. (Cl. 290—38)



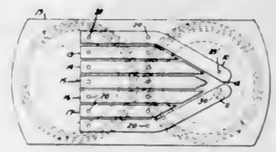
1. Engine starting apparatus comprising an electric motor, a pinion normally spaced from a gear of the engine to be started and movable into mesh therewith, a spring for retracting the pinion from the engine gear and for yieldingly maintaining it in said spaced relation, an overrunning clutch connecting the motor and pinion, a battery, a solenoid having an armature and a main armature attracting coil and an armature holding coil, means for transmitting motion from the armature to the pinion to cause it to mesh with the engine gear, a circuit between terminals of the battery and including a control switch in series with two circuits in parallel one of which includes the holding coil and the other of which includes the motor and the main coil and a resistance in parallel with the main coil, said resistance and main coil together passing to the motor current sufficient only to cause it to rotate the pinion while out of contact with the engine gear, and a switch which is operated by the solenoid armature to short-circuit the main coil and resistance only after the pinion has been substantially fully meshed with the engine gear.

2,614,231
CATHODE-RAY TUBE FOR POLYCHROME TELEVISION APPARATUS
Ernest O. Lawrence, Berkeley, Calif., assignor to Chromatic Television Laboratories, Inc., San Francisco, Calif., a corporation of California
Application April 4, 1951, Serial No. 219,240
18 Claims. (Cl. 313—72)



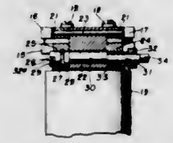
1. In a cathode ray tube for producing polychrome television images visible from a tube end wall and developed within the tube under the control of a modulatable electron scanning beam, the target combination comprising a translucent phosphor coating in the path of the scanning beam and emissive of light of one primary color; a grating formed of a plurality of mutually-insulated conductive strips extending in planes generally substantially perpendicular to the translucent phosphor coating and in proximity thereto, phosphor coating on said strips emissive, under scanning beam impact, of light of different primary color from that of the first coating, said grating being located intermediate the translucent phosphor coating and the originating point of the beam; and a substantially transparent electron-impermeable baffle secured at the end of each conductive strip nearest to the translucent phosphor coating and extending outwardly to each side of the said grating strip.

2,614,232
AIR GAP CONSTRUCTION
John W. Kalb, Barberton, Ohio, assignor to General Electric Company, a corporation of New York
Application September 15, 1950, Serial No. 184,925
21 Claims. (Cl. 313—156)



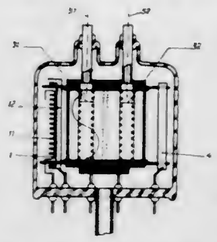
1. In an air gap construction, a first pair of spaced electrodes defining a main arc gap, a plurality of spaced auxiliary electrodes positioned adjacent said pair of electrodes and defining a plurality of auxiliary arc gaps, said gaps being disposed in substantially the same plane, a coil winding positioned adjacent said electrodes with the axis thereof transverse to said plane and with the area within the periphery of said winding being disposed opposite said pair of electrodes, a portion of the area outside of said periphery being disposed opposite a portion of each of said auxiliary electrodes, said winding being connected electrically in series with said first pair of electrodes and the gap therebetween and a second pair of electrodes defining an arc gap in parallel circuit relation with said coil winding.

2,614,233
RUGGEDIZED KLYSTRON TUBE
Wilbur A. Joerndt, Silver Spring, Md., assignor to the United States of America as represented by the Secretary of the Navy
Application September 15, 1950, Serial No. 184,939
5 Claims. (Cl. 315—5)



1. A cavity resonator having conducting walls, a jacket surrounding the conducting walls and having a flange, a plate mounted above the flange and connected to certain of the conducting walls of the cavity resonator, certain other of said conducting walls being connected to said flange, and tuning means for the cavity resonator connected to said plate and said flange and comprising a pin in the flange and having an eccentric portion, said pin and eccentric portion being movable for shifting the plate with respect to the flange.

2,614,234
OSCILLATING AND AMPLIFYING VACUUM TUBE FOR VERY SHORT WAVES
Jean Paul Voge, Paris, France
Application January 31, 1947, Serial No. 725,682
In France February 2, 1946
4 Claims. (Cl. 315—6)

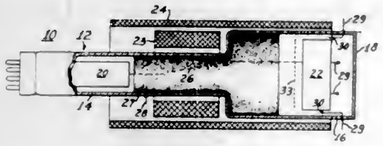


1. An electron discharge device of the velocity modulation type comprising two cavity resonators constituted by sections of wave guides short-circuited at their ends and adapted each when suitably excited to support a system of standing waves whose half wave length is an integral submultiple of the length of its wave guide, the wave lengths of said standing wave systems being substantially equal, and two electron-permeable grids arranged on opposite faces of each of said guides, each of said grids having a length substantially equal to an integral multiple of one half of said common wave length.

2,614,235
COLOR TELEVISION PICKUP TUBE
Stanley V. Forgue, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 22, 1950, Serial No. 157,443
14 Claims. (Cl. 315—10)

1. A cathode ray device comprising an evacuated envelope, within the envelope a group of

parallel, closely-spaced photo-sensitive screens in registry with each other and including at least a front screen and a back screen, a window in said envelope through which object light may be directed upon said front screen and toward said back screen, each of said screens from the front screen up to the back screen having substantial light transmission, whereby some of the object



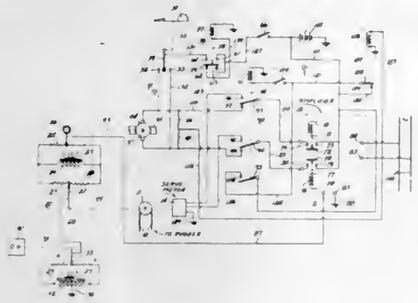
light so directed will reach each of them, each of the screens including a supporting plate having a coating of photo-sensitive material on its light-receiving side, electron gun means directed toward one side of the group of screens, and each of said plates which lies between said gun and one of said coatings being multi-apertured whereby it is a foraminous structure permitting electrons from said gun to reach said coating.

2,614,236

AIRCRAFT CONTROL APPARATUS

Lawrence E. Alberts, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application September 13, 1947, Serial No. 773,751
9 Claims. (Cl. 318—29)



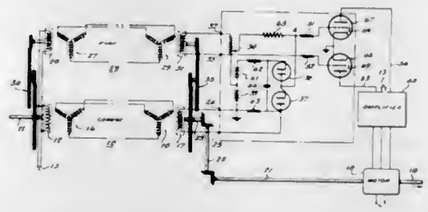
1. Control apparatus for an aircraft having a control surface comprising: motor means for operating said control surface; a relay having a plurality of movable arms and two sets of contacts; potential responsive means connected to the movable arms of said relay for controlling said motor means through one set of contacts of said relay while it is energized; a plurality of sources of variable voltage connected in series and having two output terminals; means connecting said terminals to supply a control signal to said potential responsive means; automatic means responsive to the deviations of the aircraft about an axis for adjusting one source of voltage; means driven by said motor means for adjusting a second source of voltage; and an electric motor means for adjusting a third source of voltage; vane means operated in accordance with the direction of movement of the aircraft relative to the direction of heading of the aircraft and selectively connectable with said electric motor means; means connecting said electric motor to said potential responsive means through the second set of relay contacts; all whereby when said relay is unenergized said electric motor as controlled by the potential responsive means varies said third voltage source to reduce said control signal potential and while said relay is energized said electric motor means is controlled by said vane to adjust the third source of voltage and cause the operation of the motor means to cause the aircraft to head in the direction of the relative wind.

2,614,237

SIGNAL MIXING CIRCUITS

Raymond C. Goertz, Hempstead, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application December 28, 1946, Serial No. 718,966
7 Claims. (Cl. 318—30)



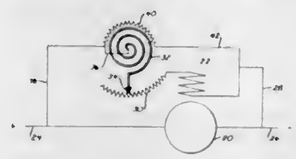
2. In a servo system, fine and coarse transmission systems, a servomotor connected for control by the voltage outputs of said fine and coarse systems, and a circuit for mixing the fine and coarse error voltage outputs of said systems, said circuit comprising an electron tube having a control electrode, a pair of inputs adapted to be connected to two sources of voltage to be mixed, means including a relatively high impedance for connecting one of said inputs to said control electrode, means including a diode electron tube and a source of bias potential connected therewith, said tube being connected with the other input for blocking the voltage supplied thereto below a predetermined value but passing voltages in excess thereof to its output, and means for connecting the output of said last-mentioned means to said control electrode between it and said high impedance.

2,614,238

DIRECT CURRENT MOTOR CONTROL

Donald F. Alexander, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application December 1, 1945, Serial No. 632,189
2 Claims. (Cl. 318—331)



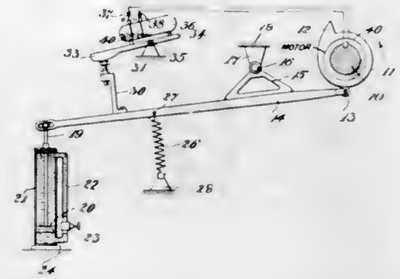
1. A direct current motor and control system including a direct current motor having a shunt field and a variable resistance connected in series with the shunt field, a bimetal operating device for changing the resistance of said variable resistance, and an electrical shunt heating means electrically connected to both supply conductors of the motor for electrically heating said bimetal operating device in accordance with the voltage of the current supplied to the motor.

2,614,239

TIMER FOR BARREL WASHING MACHINES

Albert C. Smith and Harold Hagen, Wilkes-Barre, Pa., assignors to Schock, Gusmer & Co. Inc., Hoboken, N. J., a corporation of New Jersey

Application March 20, 1950, Serial No. 150,778
1 Claim. (Cl. 318—443)



In a timing device for barrel washing machines having a keg carrier shaft, an electric switch normally closed, conductors connected with said switch and with the motor of said barrel washing machine, a pivotally supported substantially horizontal lever supporting said switch, a follower at one end of said lever, a pivotal connection at the other end of said lever, and a spring connected with said lever near its pivotal connection for lowering said end, the combination of an oil filled casing, a by-pass tube extending from the upper part of the casing to the lower part of the same for conveying oil of said casing, a valve in said tube for controlling said flow of oil in said casing and in said tube, a piston in said casing with a check valve, a piston rod connecting said piston with said pivotal connection, said piston being normally in the lower part of said casing, and a cam on said shaft having a nose, which on its rotation around said shaft depresses said follower end of said lever and raises said pivotal connection end of said lever and raises the piston to the upper part of said casing, and extends said spring and opens said switch, whereby upon said extended spring drawing said pivotal connection of said lever downwardly against piston resistance in said casing, causes a delay in the piston action to its normal lower position maintaining said switch open, and the motor connected therewith at standstill.

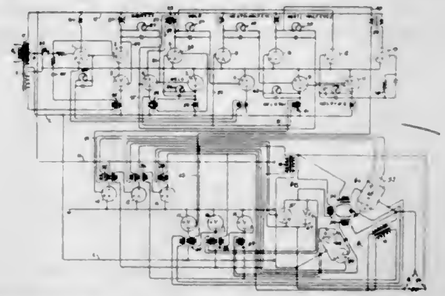
2,614,240

ELECTRIC SEQUENCE AND TIMING CIRCUITS

Maurice E. Bivens, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 15, 1949, Serial No. 127,374
20 Claims. (Cl. 321—7)

1. In an arrangement comprising a plurality of groups of electron discharge coupling devices sequentially operated to couple half waves of voltage of opposite polarity to a single phase load from a multiphase alternating signal source wherein a signal of one polarity is coupled to the load by the coupling devices, each associated with a respective phase of said source, of given groups operating in succession, and a signal of the opposite polarity is coupled by the coupling devices, each associated with a respective phase of said source, of the remaining groups operating succession, means synchronized with and energized solely by the voltage of one phase of said source for sequentially operating each of the devices of said given groups a plural integral number of times for controlling the period of voltage of one polarity coupled to said load, means synchronized with and energized solely by the voltage of said one phase of said source for sequentially operating each of the devices of said remaining groups a plural integral num-



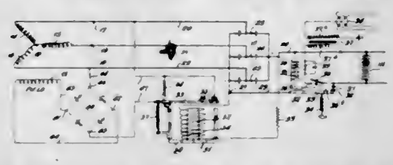
ber of times for controlling the period of voltage of opposite polarity coupled to said load, and means synchronized with and energized solely by the voltage of said one phase of said source for controlling the time of transfer of voltage coupled by said given groups of devices and said remaining groups of devices.

2,614,241

VOLTAGE REGULATING APPARATUS

Nicholas D. Diamantides, Cleveland, Ohio, assignor to The Leece-Neville Company, Cleveland, Ohio, a corporation of Ohio

Application September 7, 1950, Serial No. 183,570
14 Claims. (Cl. 321—21)



1. In an electrical system, an alternator having a field winding, a full-wave bridge type rectifier, a direct current external load circuit connected with said alternator through said rectifier, a regulator of the relay type comprising magnet coil means and vibratory contact means adapted to be actuated by said magnet coil means, circuit means for energization of said magnet coil means by rectifier current, and means for energizing said field winding including alternating current circuit means connected with said alternator and controlled by the vibratory contact means of said regulator.

2,614,242

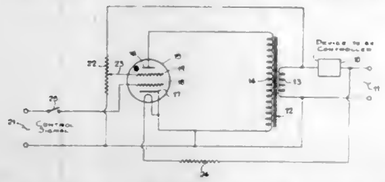
REACTOR-CONTROLLED ELECTRONIC CIRCUIT

John Stone, 4th, Havertown, Pa., assignor to Warren Webster & Company, Camden, N. J., a corporation of New Jersey

Application November 4, 1948, Serial No. 58,275
6 Claims. (Cl. 323—66)
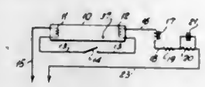
1. A control system comprising an alternating current load circuit, a transformer having primary and secondary windings, said primary winding being included in said load circuit and said secondary winding being adapted when current is flowing therethrough to magnetically saturate said transformer thereby to decrease the im-

pedance of and increase the flow of current in the load circuit, and a gaseous space discharge device having an anode, cathode, control grid and screen grid, said secondary winding of said transformer being connected across the anode and cathode of said space discharge device to apply an operating potential therebetween, said control grid being responsive to a signal voltage of constant value to render said space discharge device conducting and cause a



saturating current to flow in said secondary winding of said transformer, said primary winding of the transformer being connected to said screen grid of said space discharge device to provide a biasing potential therefor which varies directly with the operating potential applied between said anode and cathode whereby the space discharge device is maintained conductive at a predetermined level when a constant signal voltage is applied to said control grid.

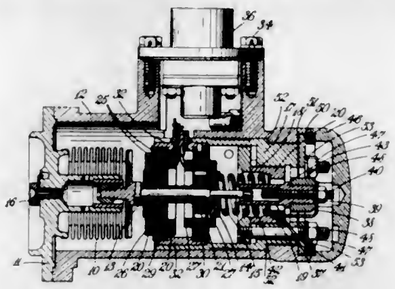
2,614,243
GASEOUS ELECTRIC DISCHARGE DEVICE CIRCUITS
Nelson O. Clark, Winthrop, Mass., assignor, by mesne assignments, to C-Eight Laboratories, New Bedford, Mass., a partnership
Application November 8, 1950, Serial No. 194,649
3 Claims. (Cl. 323—77)



1. A universal ballast for electric circuits designed for operating fluorescent lamps on A. C. or D. C. current without requiring changes in the wiring, said ballast comprising a heat-dissipating, one-piece container having a dielectric, sealed closure at one end for accommodating projecting leads, and a plurality of ballast elements including a pair of ceramic-encased resistances in physical contact with the container, an inductance and a condenser separated from each other and from said resistances; a dielectric insulating member placed against the interior face of the container, but being spared out in the vicinity of the resistances, another dielectric member disposed between the inductance and said resistances, and a heat- and impact-resistant, dielectric substance filling the spaces between the ballast elements.

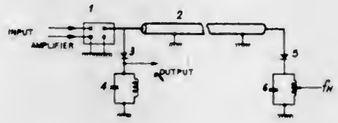
2,614,244
ELECTRICAL INDICATING DEVICE
Eric Beecroft Moss and Charles William Cooper, Cricklewood, London, England
Application December 7, 1948, Serial No. 63,874
In Great Britain October 31, 1947
8 Claims. (Cl. 323—83)

1. An electrical indicating device comprising a pair of inductors spaced apart and energized in parallel by an alternating current power supply, an armature disposed beside the inductors, said armature being linearly movable relative to the inductors so that the ratio of the impedances of the inductors varies according to the linear displacement and being rotatable relative to the in-



ductors about an axis lying in the direction of linear movement, said armature being shaped so that rotation relative to the inductors simultaneously moves the armature towards or away from both inductors.

2,614,245
PHASE MODULATION APPARATUS
Henri Chireix, Paris, France, assignor to Societe Francaise Radio-Electrique, a corporation of France
Application April 6, 1950, Serial No. 154,279
In France April 20, 1949
2 Claims. (Cl. 332—16)



1. The method for converting a sinusoidally frequency-modulated wave into another wave that has a different carrier frequency and a different frequency deviation, which comprises subjecting the wave to be converted to a first delay of a predetermined value

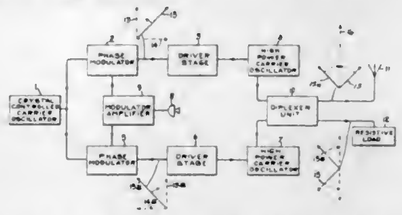
$$\frac{\tau}{2}$$

mixing it with oscillations of fixed frequency, subjecting the wave obtained by said mixing to a second delay equal to the first, then mixing it with the wave to be converted and frequency-modulating, the wave obtained by this latter mixing with a deviation equal to the product of the original deviation by 2 cos $\pi F\tau$, F being the modulation frequency.

2,614,246
MODULATION SYSTEM
Robert B. Dome, Geddes Township, Onondaga County, N. Y., assignor to General Electric Company, a corporation of New York
Application September 23, 1949, Serial No. 117,360
11 Claims. (Cl. 332—41)

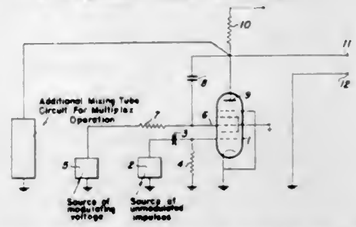
9. An amplitude modulation system comprising, a control oscillator, a source of modulation voltage, means for obtaining from said oscillator a pair of carrier waves modulated in opposite senses in accordance with said modulation voltage, a pair of carrier wave oscillators, means for synchronizing said carrier wave oscillators with

said phase modulated control waves, and means for combining said synchronized carrier wave



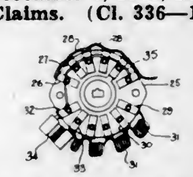
oscillators thereby to obtain an amplitude modulated output wave.

2,614,247
PULSE MODULATING SYSTEM
Jacques Boisvieux, Nogent-sur-Marne, and Jacques Chaumeron, Paris, France, assignors to Societe Francaise Sadir-Carpentier, Paris, France, a corporation of France
Application December 22, 1948, Serial No. 66,644
In France December 26, 1947
6 Claims. (Cl. 332—64)



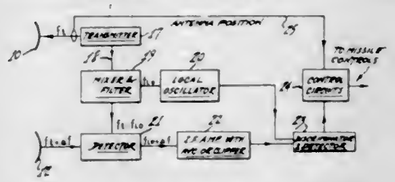
1. A mixing tube circuit adapted to provide amplitude modulation impulses in linear relationship with modulating voltages, comprising a mixing tube having a plurality of grids, means for feeding unmodulated impulses to one of said grids, means for feeding a modulating voltage to a second one of said grids and a feedback system coupling said second grid with the anode of said tube to produce the aforesaid linear relationship.

2,614,248
TUNING UNIT
Warren J. Ostreicher, New York, N. Y., assignor to Tele-Tone Radio Corporation, a corporation of New York
Application December 7, 1948, Serial No. 64,009
9 Claims. (Cl. 336—131)



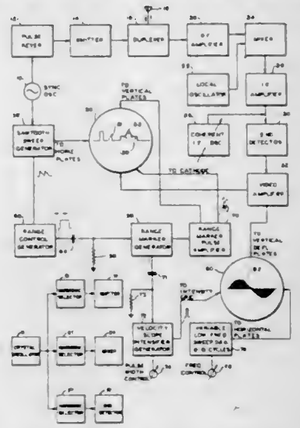
1. In a tuning unit comprising at least two insulating disks parallelly spaced and a common support therefor; each disk having terminals only circumferentially arranged thereon, and at least one inductance unit connected to and supported on said terminals only; said unit including a hollow insulating body supporting the coil and terminals attached to the ends of said body; said body being provided with a conductive slug arranged adjustably therewithin and exposed to the outside so as to be adjusted without requiring removal of said inductance unit from its supporting terminals, and said unit terminals being adapted to cooperate with the disk terminals for supporting said body and said coil.

2,614,249
AUTOMATIC STEERING SYSTEM
Thomas T. Eaton, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 9, 1946, Serial No. 702,109
7 Claims. (Cl. 343—7)



1. In combination, radar apparatus comprising an antenna system that comprises at least one antenna having a directive radiation pattern that has a principal axis, said antenna system being mounted on means for pointing said axis of said one antenna toward a reflecting target, means for repetitively changing the effective position of said one antenna in a direction having a component transverse to said principal axis, means for radiating a radio signal from said antenna system during the time that said one antenna is changing from one effective position to another effective position, means for receiving said signal by said antenna system after reflection from said target, means for obtaining a Doppler frequency signal resulting from relative motion of said target and said one antenna, said last means comprising a detector, means for supplying a frequency comparison signal to said detector and means for supplying said received signal to said detector, whereby there is obtained a Doppler frequency signal that varies repetitively in frequency as a function of said repetitive change in the effective position of said one antenna so long as said principal axis is not pointing directly toward said target.

2,614,250
MOVING TARGET PULSE ECHO MEASURING SYSTEM
Edwin K. Stodola, Neptune, N. J., assignor to the United States of America as represented by the Secretary of War
Application June 29, 1948, Serial No. 35,956
14 Claims. (Cl. 343—8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a pulse-echo object detecting system wherein spaced wave trains are radiated and

wherein received echoes from a moving target produce successive pulses characterized by an amplitude modulation having a period dependent upon the radial velocity of said moving target; means for displaying said moving target echoes comprising means for isolating the successive pulses from a single target, means for generating a cathode ray indicating beam, means controlled by said isolated pulses for deflecting said beam along one coordinate, means for periodically deflecting said beam along a second coordinate to provide a time base, and means for varying the period of said time base until a stationary pattern of the envelope of said amplitude modulation is indicated by said indicating beam.

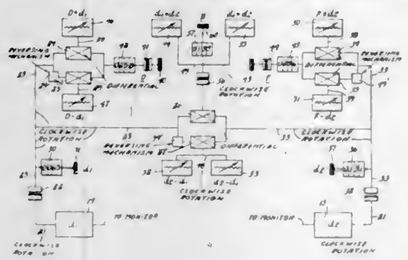
2,614,251

FLIGHT INSTRUMENT

William K. Ergen, Princeton, N. J., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application July 31, 1946, Serial No. 687,421

27 Claims. (Cl. 343—15)



11. Means for indicating departure of a craft from a predetermined path having a quartic equation of the form

$$(d_2^2-d_1^2)^2+K_1d_1^2+K_2d_2^2+K_3=0$$

in terms of distances d_1 and d_2 from two known points comprising, in combination: a normally energized electric bridge having a first impedance arm of magnitude

$$\frac{a^2-(d_1+d_2)^2}{2a}$$

a second impedance arm of magnitude

$$\frac{D^2-d_1^2}{2D}+\frac{F^2-d_2^2}{2F}$$

a third impedance arm of magnitude E, and a fourth impedance arm of magnitude

$$\frac{a^2-(d_2-d_1)^2}{2a}$$

where a, D, E, and F are adjustable constants and d_1 and d_2 are continuous variables, the balance equation of the bridge being

$$(d_2^2-d_1^2)^2+2a^2(E/D-1)d_1^2+2a^2(E/F-1)d_2^2+a^4-2a^2E(D+F)=0$$

means, each calibrated in terms of one of said adjustable constants, for severally adjusting said bridge to set said constants individually to values making the coefficients of the bridge equation equal to the coefficients of the quartic equation of the predetermined path; means for continually adjusting impedance members in said bridge to maintain d_1 and d_2 proportional to the distances between said craft and said points; and means indicating the magnitude and sense of the unbalance of said bridge.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

770,170. **METHOD OF PURIFYING METALLIC BERYLLIUM.** Harry W. Dodds, Bay Village, and Charles B. Sawyer, Cleveland Heights, Ohio, assignors, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Filed Aug. 22, 1947. Published Oct. 14, 1952. Class 241—14. No drawing. 6 pages of specification.

This disclosure relates to the preparation of metallic beryllium powder having a high degree of freedom from non-metallic impurities such as flux materials and slag. The disclosure is based upon the fact that these non-metallic impurities are distributed through the metal as a mechanical mixture and upon the discovery that the impurities are of a friable character such that their exposure by fracture of the impure metal makes possible their separation from the metal.

The improved method consists essentially in crushing bodies of "technical grade" beryllium, to reduce the material to a relatively small size; and screening the crushed material to stop substantially all metal portions and pass the finer friable impurities. The reduction of the coarse material to granular form is ordinarily carried out by a plurality of crushing operations. The screening of the material is carried out at the end of the crushing treatment, and preferably between stages thereof.

If the impure beryllium to be treated is in large pieces, crushing is carried out in several stages. The initial crushing is done with a power hammer to reduce the pieces to maximum dimensions of 2'' to 3''. This material is then further crushed in a press to a size that will pass through a screen of ¾'' mesh, any material remaining on the screen being recrushed until all material passes through the screen. Stainless steel screens are employed to avoid contaminating the material under treatment. The material is then sifted on a 100 mesh stainless steel screen. The material passing through the screen consists of slag and other impurities and less than 1% of beryllium metal and may be either discarded or treated for recovery of the beryllium content, as by mixing with powdered aluminum to form beryllium aluminum alloy. The beryllium material remaining on the 100 mesh screen which has thus been freed of much of its impurities, is now subjected to further crushing to reduce it to less than ⅛'' mesh size. This crushing may be carried out by passing the material two or three times through a jaw type crusher, reducing the distance between the jaws after each pass and screening the material after each pass through a 100 mesh screen, thus removing further impurities of a friable character.

The coarse granular material which has passed over the ⅛'' mesh screen is now passed several times through crushing rolls and screened over a 100 mesh stainless steel screen after each pass, the spring tension on the rolls being increased with each pass until, for the last two passes, the rolls may be locked tightly together so that the only separation thereof is due to the spring of the bearings and the case. Five passes through the rolls is ordinarily sufficient.

A chemical check of the purity of the product is usually required. Accordingly, when the material has had from one to three passes through the crushing rolls and the metal is reduced to approximately −20 mesh and +100 mesh size a sample may be analyzed to determine percentages of impurities such as iron, aluminum, slag present. If the analysis shows that the non-metallic impurities are too high further crushing and screening are in order. The number of chemical analyses can be minimized by making preliminary microscopic examinations of the material. The progress of mechanical purification may be checked by examining a sample with a stereoscopic binocular microscope at about 30 diameters magnification to detect slag inclusions in the metal particles. When more than one piece in fifty have inclusions it is desirable to carry the crushing further. In this manner the chemical analysis can be deferred until the material contains much less than 0.99% of slag.

If addition of metallic impurities to the beryllium is to be avoided the power hammer and press should have their material-engaging parts faced with or made of beryllium; and similarly the crushing rolls and the jaws of the jaw crusher should be made of or faced with beryllium. In addition the hoppers and plates of the apparatus with which the beryllium material contacts during the crushing and screening operations are preferably formed of magnesium.

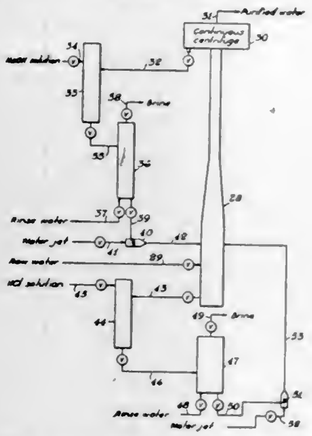
In order to insure effective separation of friable impurities from the beryllium, it is necessary to maintain the material under treatment in a relatively dry and somewhat heated condition throughout the crushing and screening treatments since the friable material is more or less hygroscopic. To secure these temperature and humidity conditions it has been found convenient to heat the material under treatment and the material-engaging surfaces of the crushing apparatus with infrared lamps.

The metallic beryllium material remaining on the 100 mesh screen of the last screening operation of the above described treatment having been reduced to −20 mesh and +100 mesh size and sufficiently freed of its friable impurities, is now ready for use, or for further reduction in particle size if the beryllium is to be reduced to powder suitable for powder metallurgy purposes.

26,078. **DEMINERALIZATION METHOD.** William C. Bauman, Midland, Mich. Filed May 10, 1948. Published Oct. 14, 1952. Class 210—24. 2 sheets of drawings. 30 pages of specification.

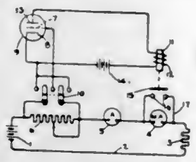
Dissolved salts are removed from aqueous liquids by treating such liquid, containing one or more dissolved salts, with a granular mixture of an acidic cation exchange agent and a basic anion exchange agent. The used ion exchange materials may be regenerated: (1) by dividing the mixture of ion exchange agents into portions, treating one portion of the mixture with an aque-

ous acid and washing excess acid therefrom, treating another portion of the mixture with an aqueous alkali solution and washing excess alkali therefrom, and admixing the two treated portions of ion exchange materials with one another; or (2) by employing in the process a mixture of an acidic cation exchange agent and a basic anion exchange agent which differ materially from one another in a physical property such as size or density of the granules of the respective agents, which difference in properties permits ready separation of the agents from one another by screening or by classification in an upflowing stream of liquid, or by other usual physical operations, sep-



arating the cation exchange agent and anion exchange agent from the mixture thereof by such physical operation, regenerating the cation exchange agent by treatment with an aqueous acid and the anion exchange agent by treatment with an aqueous alkali solution, washing the thus treated ion exchange materials, and admixing them with one another. Use of the mixture of an acidic cation exchange agent and a basic cation exchange agent for the demineralization of aqueous liquids avoids formation of an acid solution corrosive to metal equipment. The process provides ways of regenerating the mixture of ion exchange agents so as to permit repeated use of the same.

62,346. **SWITCHING AND PROTECTING DEVICE FOR ELECTRICAL MEASURING INSTRUMENTS.** Philip H. Peters, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Nov. 27, 1948. Published Oct. 14, 1952. Class 171—95. 1 sheet of drawings. 10 pages of specification.



The disclosure relates to apparatus for automatically switching measuring instruments into an electrical circuit and coincidentally protecting such instruments from damage due to overloading.

A milliameter **4** and an ammeter **5** are connected to measure the current flowing through the load circuit including load **3**. A variable resistor **6** having low impedance is also connected in series with the load circuit. An electromagnetic relay **11** is connected in the output circuit of an amplifier including electric discharge device **9**. The contact armature **15** of relay **11** is arranged to short-circuit milliameter **4** when relay **11** is de-energized. The voltage developed across resistor **6** is supplied through polarity reversing switch **10** between the cathode **8** and control electrode **7** of discharge device **9** and maintains sufficient conduction through discharge device **9** to energize relay **11** when the current in the load circuit is within the operating range of milliameter **4** but reduces conduction through discharge device **9** to de-energize relay **11** when the current in the load circuit exceeds the operating range of milliameter **4**. In this way, milliameter **4** is automatically switched into the load circuit when the current is within its range of indication and automatically switched out of the load circuit when the current exceeds its operating range. Moreover, if for any reason the protective system becomes inoperative such as by reason of failure of battery **14** or of discharge device **9**, relay **11** is de-energized to short-circuit milliameter **4**.

In a modification, the invention is adapted to protect voltage measuring instruments connected in parallel with the load circuit by employing a potentiometer also connected in parallel with the load circuit to develop the bias voltage supplied to discharge device **9**.

64,431. **ALDOL CONDENSATIONS.** Albert C. Zettlemoyer, Bethlehem, Pa., assignor to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware. Filed Dec. 9, 1948. Published Oct. 14, 1952. Class 260—594. No drawing. 8 pages of specification.

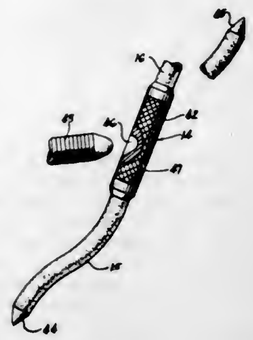
Aldol condensations for the production of aldehydes, ketones and ketoalcohols are accomplished by contacting a ketone with an active magnesia having an iodine number in excess of 15 and an ignition loss of from 1 to 20% The reaction can be carried out either in the gaseous phase or in the liquid phase. Diacetone alcohol and mesityl oxide can be produced from acetone.

64,438. **METHOD AND SOLUTION FOR THE CHEMICAL POLISHING OF ALUMINUM.** Wolfgang A. Heinrich and Charles B. Fideor, Rochester, N. Y. Filed Dec. 9, 1948. Published Oct. 14, 1952. Class 41—42. No drawing. 5 pages of specification.

A method of bright polishing aluminum which consists in immersing the aluminum into a solution containing 4–8% HNO_3, 60–75% H_3PO_4, 24–36% water and .005% of a wetting agent comprising an alkyl aromatic sulphonate of the benzene series containing a 7–35 carbon atoms in an open-chain aliphatic hydrocarbon radical while the solution is maintained at a temperature within the range of 200° F. to 240° F. Comparable results are obtained when chemically equivalent amounts of nitrate salts are substituted for the nitric acid. No electric current is employed in this polishing method.

90,689. **TWO-SIDED STYLUS.** Benjamin B. Bauer, Oak Park, Ill., assignor to Shure Brothers, Incorporated, Chicago, Ill., a corporation of Illinois. Filed Apr. 30, 1949. Published Oct. 14, 1952. Class 274—38. 1 sheet of drawings. 8 pages of specification.

This application relates to a double ended phonograph stylus including a central enlarged portion **42** and reduced record engaging portions **15** and **16**. At the ends of the record engaging portions, record engaging points **44** and **45** are provided respectively. Normally, the central portion **42** is adapted to lie at an angle in the pickup, and the record engaging portions **15** and **16** are reversely curved with respect to each other in a direction so that the points **44** and **45** do not lie on a line perpendicular to the phonograph record in its normal playing position.



The central portion **42** is provided with a generally conical hole **46** for receiving the correspondingly shaped end of a screw **43** for holding the stylus within the chuck of the phonograph pickup. Since the portion **42** is at an angle to the axis of screw **43**, and the axis of hole **46** coincides with that of screw **43**, the hole **46** has an unsymmetrical disposition in portion **42**. In consequence thereof, the stylus is not reversible and must be placed in the pickup chuck with the same position at all times. Otherwise the screw **43** will not be received within hole **46** at the proper angle with the result that the points **44** and **45** would not project equally on each side of the pickup. In order that the stylus may be properly placed in the pickup so that the portion **15** projects from the bottom of the pickup and the portion **16** projects from the top thereof, portion **15** may be colored differently than **16**. For example, portion **15** may be painted black and portion **16** may be painted white. When the stylus has been placed in the pickup with portion **15** projecting from the bottom thereof, the approximate centering of the stylus may be indicated by a coating of paint **47** surrounding central portion **42**. The coating of paint may have an extent approximating that of portion **42** so that whenever this band is completely obscured within the pickup the stylus is approximately centered. Whereupon tightening of screw **23** forces the point into hole **46** and centers the stylus exactly, since the stylus will move in order that hole **46** conforms to the point of screw **43**.

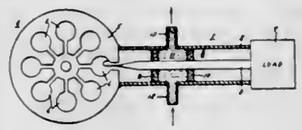
105,447. **CURRENT REVERSAL ELECTROPLATING.** Robert W. Mackey and Donald A. Swalheim, Niagara Falls, N. Y. Filed July 18, 1949. Published Oct. 14, 1952. Class 204—52. No drawing. 6 pages of specification.

This application relates to periodic current reversal electroplating in which an article to be electroplated is rendered cathodic during a major portion of a plating cycle and anodic for a minor portion thereof.

The invention resides, broadly, in use of a somewhat longer cycle than has heretofore been considered practicable. The article to be plated is held cathodic for 50–120 seconds and anodic for a limited fraction, 5 to 75%, of the cathodic time. By use of such a cycle a plate can be obtained on irregularly shaped articles largely free of the haze or bloom that frequently mars the low current density areas of such plate. The preferred plating cycle consists of a cathodic time of 50–80 seconds and an anodic time of 15–30 seconds.

In a specific example of the present process copper was plated on steel at a constant over-all current density of 50 amps./ft.^{2} from a conventional copper cyanide plating solution to yield a deposit about 0.001 inch thick. The current density varied over the surface of the article plated because of the configuration of the article and that of the cell. A cycle in which the steel was cathodic for 10 seconds and anodic for 3 gave a product showing considerable haze or bloom in low current density areas. A cycle with a cathodic time of 50–100 seconds followed by an anodic period of 15–30 seconds largely eliminated the haze. The cycle with the longest periods however gave slight burning in high current density areas not evident when shorter periods were utilized.

107,583. **ATTENUATING SEAL FOR ULTRA-HIGH-FREQUENCY SYSTEMS.** Richard B. Nelson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed July 29, 1949. Published Oct. 14, 1952. Class 178—44–1A. 1 sheet of drawings. 6 pages of specification.



My invention resides in the combination of a dissipative load and a cooling means for a dielectric seal as employed in an ultra high frequency transmission line. Accordingly, I employ in a transmission line a pair of spaced dielectric sealing members together with means for circulating within the conductor between the spacer members a lossy fluid dielectric which serves to cool the seal for preventing its cracking and melting and to impose a dissipative load through interaction of the lossy dielectric with the electromagnetic fields in the transmission line for limiting the standing wave voltage at the seal. Such a load also aids stable oscillation at the resonant frequency of the oscillator supplying the energy which is being propagated through the transmission line section to a high-Q load.

111,091. **ORGANOSILICON COMPOUNDS.** Charles A. Burkhard, Alplaus, N. Y., assignor to General Electric Company, a corporation of New York. Filed Aug. 18, 1949. Published Oct. 14, 1952. Class 260—448.2. No drawing. 5 pages of specification.

The application relates to organosilicon compounds having the general formula

$$(CH_3)_3Si—[OSi(CH_3)_2]_n—(CH_2)_m—S—CH_2—COOR$$

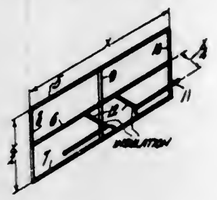
wherein n is from 0 to 10, preferably 0 or 1, m is an integer of from 2 to 3 and R is a member of the class consisting of hydrogen and the lower saturated aliphatic hydrocarbon radicals, e. g., methyl and ethyl radicals.

The compounds are prepared by reacting thioglycolic acid or an ester thereof with a suitable alkenyl-containing organosilicon compound, i. e., an alkenyl silane or siloxane of the formula

$$(CH_3)_3Si—[OSi(CH_3)_2]_n—R'$$

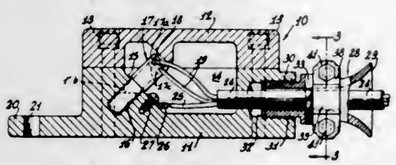
wherein R′ is a vinyl or allyl group and n is 0 to 10, preferably 0 or 1.

144,128. **DIRECTIONAL ANTENNA SYSTEM.** Oakley McDonald Woodward, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware. Filed Feb. 14, 1950. Published Oct. 14, 1952. Class 250—33.65. 1 sheet of drawings. 5 pages of specification.



A reflector to be used in an antenna system comprises three coplanar parallel elements, **5**, **6** and **7**, having a length substantially equal to 0.43 times the carrier wave length, spaced apart a distance substantially equal to one-tenth of the carrier wave length. The elements are electrically bonded at their adjacent ends by spacers, **8** and **10**, which maintain the elements in spaced relationship. A third spacer, **9**, is electrically affixed to the midpoints of the elements. A radiator, **11**, is secured to the reflector by supports, **12**, projecting outwardly from the reflector, the radiator being spaced from the reflector at a distance approximately equal to one-tenth of the length of the carrier wave.

203,599. **ELECTRICAL SWITCHES.** Claude O. Wood, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois. Filed Dec. 30, 1950. Published Oct. 14, 1952. Class 200—52. 1 sheet of drawings. 13 pages of specification.

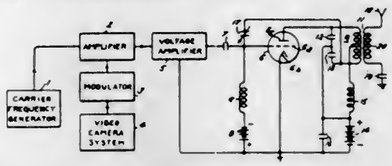


The disclosed device relates to a remote control switch useful for example for an electric motor circuit. The switch may be operated to open or close the motor circuit by bodily moving the switch as a unit, as distinguished from operating a toggle, button, or like conventional switch operating means. Furthermore the construction of the switch renders it gas-proof and hence avoids likelihood of gas explosion resulting from arcing at the switch contacts.

The switch is adapted for connection to a rubber covered electric cable which extends from the motor to be controlled. As shown in Fig. 2 the casing includes a mercury switch **17** associated with motor control leads **19**, **19**. Leads **19** terminate in spaced contacts **17c** within the mercury switch.

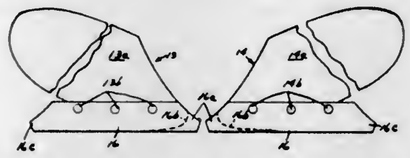
The switch may be bodily moved to a stable "on" position by doing one of the following: (*a*) by placing the switch in a horizontal position with its top section **12** resting on the ground; or (*b*) by hanging the switch vertically from the aperture **21** which is remote from the cable juncture. The switch may be bodily moved to its "off" position by doing one of the following: (*a*) by placing the switch on the ground as shown in Fig. 2; (*b*) by hanging the switch from the aperture **21** which is adjacent the cable juncture; and (*c*) by simply hanging the switch bodily from the cable.

221,060. **AMPLIFIER SYSTEM.** John W. Downie, East Syracuse, N. Y., assignor to General Electric Company, a corporation of New York. Filed Apr. 14, 1951. Published Oct. 14, 1952. Class 178—7.1. 1 sheet of drawings. 12 pages of specification.



This application discloses in the final stage of a television transmitter an amplifier **6** biased for essentially class C operation by battery **9**. A carrier wave modulated by video signals is applied to the input of the amplifier. Class C operation of this kind inherently results in an increase in the depth of modulation. Accordingly, the carrier applied to the input of the amplifier is modulated by less than the amount of modulation desired in the output of the amplifier. This arrangement results in an increase in efficiency over class B amplifiers conventionally used in the final stage of the transmitter without serious impairment of the linearity of amplification.

225,107. **REVERSIBLE SHARE FOR MOLDBOARDS.** Ralph C. Frevik, Detroit, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware. Filed May 8, 1951. Published Oct. 14, 1952. Class 97—125. 1 sheet of drawings. 4 pages of specification.



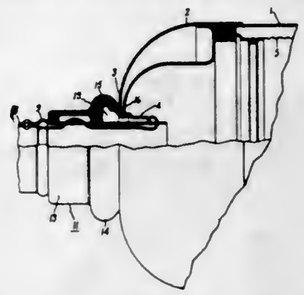
This disclosure relates to a reversible share for a two-way plow of the type having oppositely directed, alternately employed plow bottoms. The share life is substantially prolonged by utilizing both the fore and aft ends of each share as the share point or leading edge upon shifting the individual shares from one plow bottom to an oppositely directed bottom.

More particularly, this disclosure provides a so-called strip-type share of constant cross-section having "mirror" image ends, either of which may be used as the share leading edge. When the share points become excessively worn, the shares from the bottoms of the right- and left-handed plow bottoms of the two-way plow are reversed, so that the ends of the share which formerly defined the plow share trailing edge now becomes the share leading edge or point.

Thus, the share may be utilized for plowing until such time as both edges of the share become worn, and the plow share period of useful service is considerably extended.

227,449. **RESILIENT SEAL FOR HOSE COUPLING AND THE LIKE.** Allen P. Cawl, Painesville, Ohio, assignor to General Electric Company, a corporation of New York. Filed May 21, 1951. Published Oct. 14, 1952. Class 285—174. 1 sheet of drawings. 7 pages of specification.

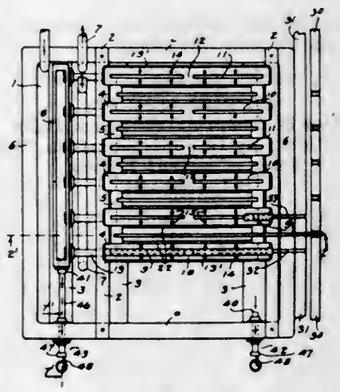
A suction cleaner **1** has a cap **2** with an end surface **3** supporting an inwardly projecting air passage tube **4**, into which a removable hose connecting tube **8** is slipped and latched. To seal the connection, a resilient collar **11** fits around the tube **8** against a shoulder **9**, and has a dished portion **14** flared first outwardly and then inwardly



as at **15**, with a tapered end surface **16** closely surrounding the end of the tube **4** and pressed into air sealing engagement with the surface **3** when the tubes are coupled.

238,361. **ELECTROLYTIC DIAPHRAGM CELL.** Rex R. Lloyd and Joe B. Rosenbaum, Boulder City, Nev. Filed July 24, 1951. Published Oct. 14, 1952. Class 204—263. 3 sheets of drawings. 20 pages of specification.

(Filed under the act of March 3, 1883 as amended April 30, 1928; 370 O. G. 757.)



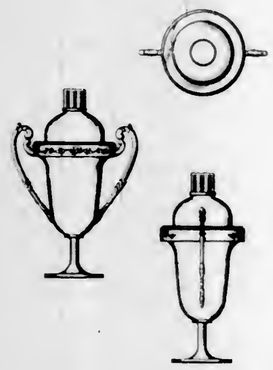
This application relates to an electrolytic diaphragm cell for electrowinning metals such as chromium, nickel, manganese, and the like. The cell comprises a tank **1** for holding the catholyte, a spacer bar **2** extending across the top of tank **1**, and an assembly of anode compartments **4** and cathode compartments **5** arranged adjacently and alternately in the tank **1** between the spacer bar **2** and a parallel wall **6** of the tank. The anode compartments **4** comprise a frame **10** having a slot **11** in the upper portion thereof wherein the anodes **9** may be inserted, and a pervious diaphragm attached to each side thereof so as to form a chamber for the anodes. The cathode compartments **5** are defined by a frame positioned between the anode frames **10**, and of the same general shape, open at the top and internally grooved to receive the cathodes. The cathode frames are cut at the bottom and at one side to provide flow slots thereby allowing the catholyte to circulate rapidly and uniformly from the lower portion of the tank past the cathode and then back into the body of catholyte at the side of the assembly due to hydrogen evolution at the cathode. The number of anode compartments is one greater than the number of cathode frames thereby providing an anode compartment **4** at each end of the anode-cathode assembly. The top outside diaphragms **13'** are made impervious to solution flow. An anolyte head chamber **8** is provided inside the tank **1** in the space between the cathode-anode assembly and one wall of the tank. A plurality of upper and lower ducts **19** connect each anode compartment **4** to the anolyte header chamber **8** thereby forming a closed circuit so that anolyte may flow from the header chamber **8** past the anodes **9** and return to the header chamber due to natural convection caused by the evolution of oxygen at the anodes. A heat exchanger **7** is mounted on the side of the anolyte header chamber **8** between the header chamber **8** and the cathode-anode assembly where the flow of catholyte is maximum. Only two openings through the tank walls are necessary, one **40** for overflow of catholyte solution and the other **41** for overflow of anolyte solution. These outlets are provided with adjustable weirs **42** and **43** whereby the level of the anolyte in the header chamber and of the catholyte in the tank can be controlled. Header bars **32** and **33** extending from cathodes and anodes connect these members with parallel bus bars **30** and **31** at one side of the tank providing a source of electrical power.

The improved cell is substantially leakproof, is simple to construct and operate, and enables close control to be maintained over operating variables thereby facilitating successful and practical operation of difficult electroplating processes.

DESIGNS

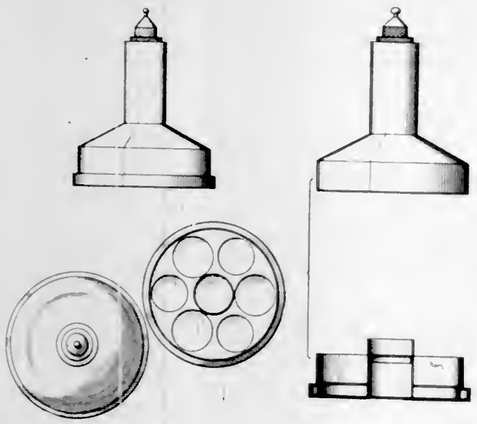
OCTOBER 14, 1952

167,921
COSMETIC JAR
Harry P. Ansehl, University City, Mo.
Application October 8, 1951, Serial No. 16,877
Term of patent 14 years
(Cl. D58—25)



The ornamental design for a cosmetic jar, substantially as shown.

167,922
COSMETIC BOX
Helen Sherwood Blauvelt, Montclair, N. J.
Application May 6, 1952, Serial No. 19,619
Term of patent 3½ years
(Cl. D86—10)



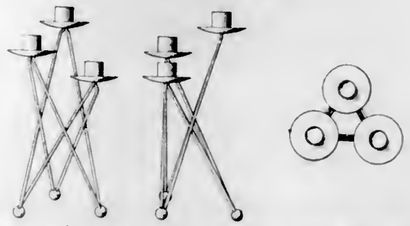
The ornamental design for a cosmetic box, as shown.

167,923
DECK OF PLAYING CARDS
Alfred V. Bigley, Albany, N. Y.
Application December 28, 1951, Serial No. 17,851
Term of patent 14 years
(Cl. D34—13)



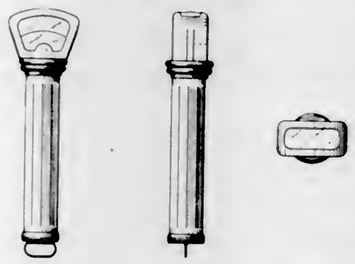
The ornamental design for a deck of playing cards, as shown and described.

167,924
CANDELABRUM
Victor H. Bisharat, Berkeley, Calif.
Application July 10, 1951, Serial No. 15,812
Term of patent 7 years
(Cl. D48—2)



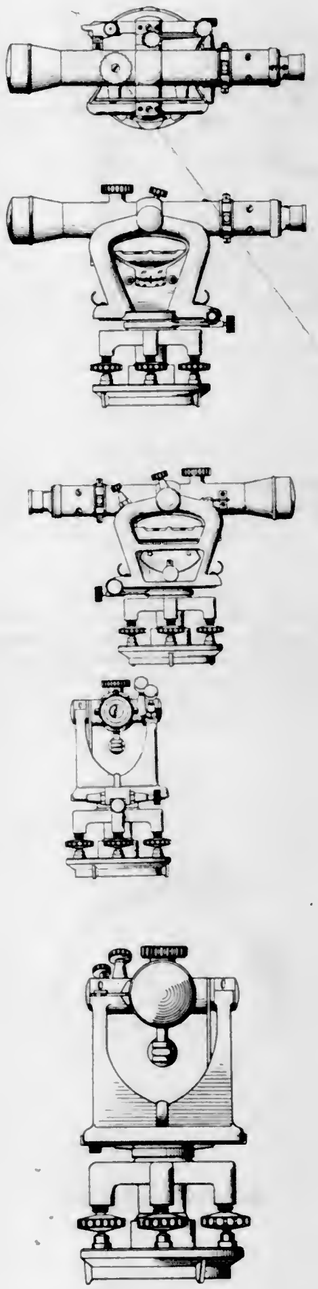
The ornamental design for a candelabrum, as shown.

167,925
FLASHLIGHT CASING
Ewan Cameron, Jr., Clinton, Mass.
Application June 3, 1952, Serial No. 20,002
Term of patent 14 years
(Cl. D48—24)



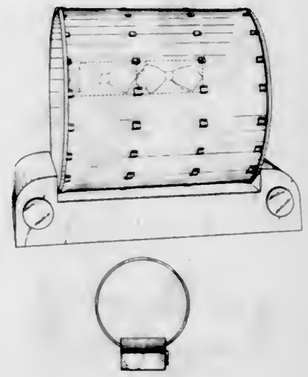
The ornamental design for a flashlight casing, as shown and described.

167,926
SURVEYING INSTRUMENT
Leopold Churgin, New York, N. Y., and Donald N. Grundberg, Stoneham, Mass., assignors to C. L. Berger & Sons, Inc., Boston, Mass., a corporation of Massachusetts
Application January 31, 1952, Serial No. 18,331
Term of patent 14 years
(Cl. D52—1)



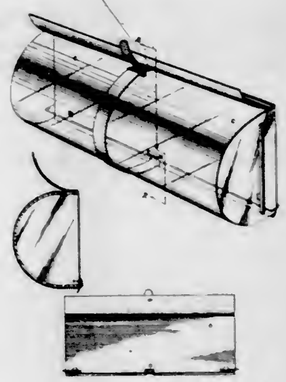
The ornamental design for a surveying instrument, as shown.

167,927
DISPLAY STAND
Herman M. Cohn, Rochester, N. Y.
Application May 13, 1952, Serial No. 19,705
Term of patent 3½ years
(Cl. D80—9)



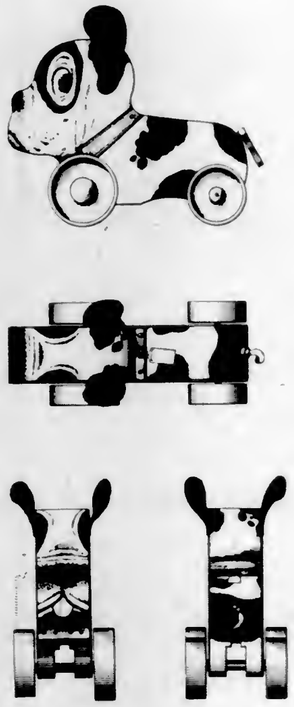
The ornamental design for a display stand, as shown.

167,928
MAILBOX
Samuel H. Coward, Jr., Jacksonville, Fla., assignor to Liberty Glass Company, Sapulpa, Okla.
Application September 13, 1950, Serial No. 12,165
Term of patent 3½ years
(Cl. D74—9)



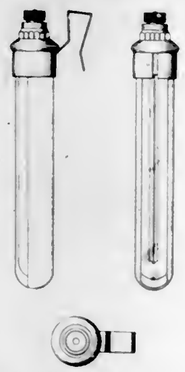
The ornamental design for a mail box, as shown and described.

167,929
TOY DOG OR THE LIKE
Walter P. Doe, East Aurora, N. Y., assignor to Fisher-Price Toys, Inc., East Aurora, N. Y.
Application December 7, 1951, Serial No. 17,646
Term of patent 14 years
(Cl. D34—2)



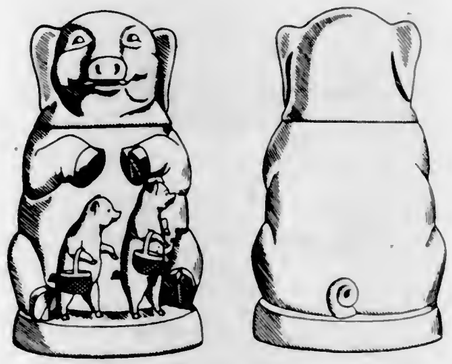
The ornamental design for a toy dog or the like, as shown and described.

167,930
AQUARIUM LIGHT FIXTURE
Andrew S. Dribnack, Binghamton, N. Y.
Application April 18, 1952, Serial No. 19,391
Term of patent 14 years
(Cl. D48—20)



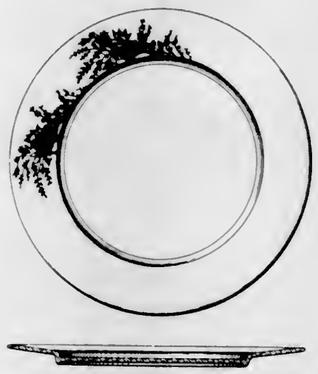
The ornamental design for an aquarium light fixture, substantially as shown.

167,931
COMBINATION COOKY JAR AND BANK
Louis H. Dworkin, Philadelphia, Pa.
Application October 1, 1951, Serial No. 16,802
Term of patent 3½ years
(Cl. D58—25)



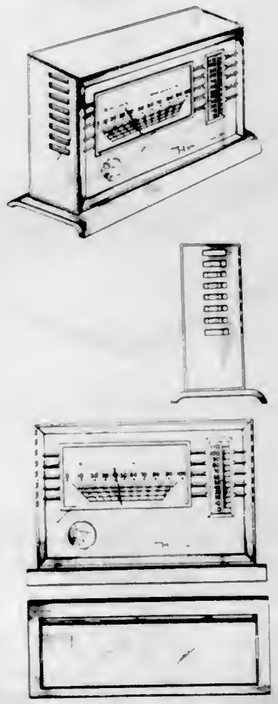
The ornamental design for a combination cookie jar and bank, substantially as shown.

167,932
DINNER PLATE
Frederick F. Errill, Tuckahoe, N. Y., assignor, by mesne assignments, to Home Decorators, Inc., Newark, N. Y., a corporation of New York
Application June 26, 1951, Serial No. 15,662
Term of patent 14 years
(Cl. D44—15)



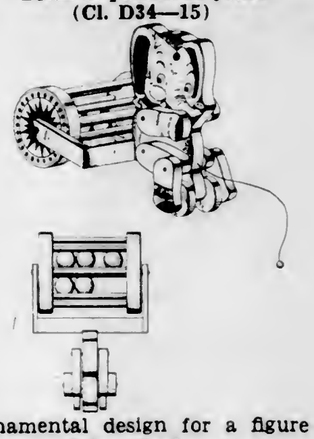
The ornamental design for a dinner plate, as shown and described.

167,933
INSTRUMENT FOR MEASURING HUMIDITY AND TEMPERATURE
Donal G. Erskine, Jr., Baltimore County, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware
Application April 29, 1952, Serial No. 19,519
Term of patent 14 years
(Cl. D52—7)



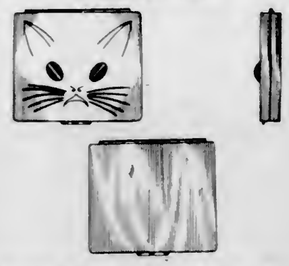
The ornamental design for an instrument for measuring humidity and temperature, as shown and described.

167,934
FIGURE TRUNDLE TOY
Herman G. Fisher, Walter P. Doe, and Leslie W. Sly, East Aurora, N. Y.
Application November 20, 1951, Serial No. 17,477
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a figure trundle toy, as shown and described.

167,935
COMPACT OR SIMILAR ARTICLE
Paul E. Flato, New York, N. Y., assignor to Paul Flato Sales Corporation, New York, N. Y.
Application July 30, 1952, Serial No. 20,855
Term of patent 7 years
(Cl. D86—10)



The ornamental design for a compact or similar article, substantially as shown.

167,936
CUP
Donald E. Folley, Fayetteville, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application January 24, 1952, Serial No. 18,204
Term of patent 14 years
(Cl. D44—9)



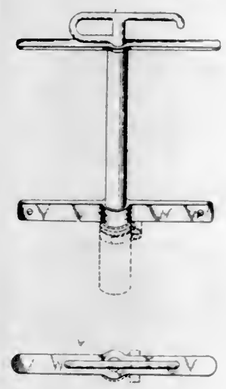
The ornamental design for cup, as shown.

167,937
PENCIL HOLDER
Elizabeth Friedel, New York, N. Y.
Application April 23, 1951, Serial No. 14,915
Term of patent 7 years
(Cl. D74—1)



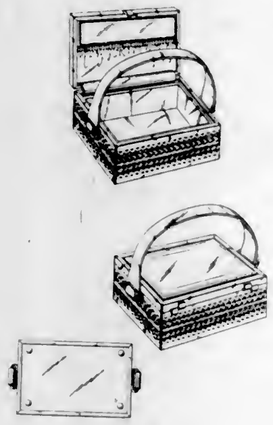
The ornamental design for a pencil holder, as shown and described.

167,938
TRAILER DOOR FASTENER
George M. Grindstad, Verona, Wis., assignor of one-half to Olin Bjornstad, Madison, Wis.
Application June 4, 1951, Serial No. 15,415
Term of patent 7 years
(Cl. D14—6)



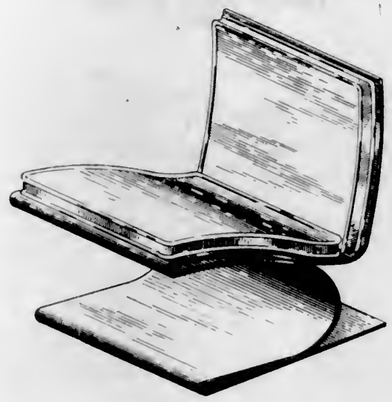
The ornamental design for a trailer door fastener, as shown and described.

167,939
FRAME HANDBAG
Max Grossman, Jersey City, N. J.
Application June 19, 1952, Serial No. 20,273
Term of patent 7 years
(Cl. D87—3)



The ornamental design for a frame handbag, as shown.

167,940
CHAIR
James M. Hofgesang, San Francisco, Calif.
Application June 30, 1952, Serial No. 20,417
Term of patent 14 years
(Cl. D15—8)

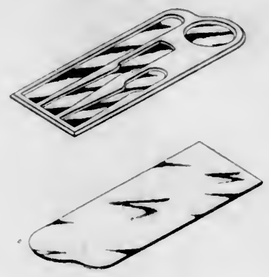


The ornamental design for a chair, as shown.

167,941
GOLF CLUB HEAD
Alfred R. Jamison, Quantico, Va.
Application July 14, 1951, Serial No. 15,876
Term of patent 14 years
(Cl. D34—5)

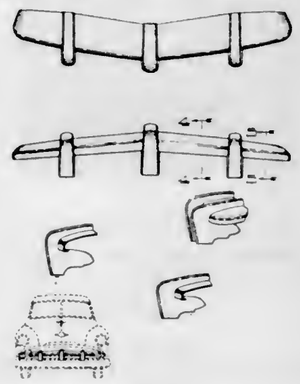
The ornamental design for a golf club head, substantially as shown.

167,942
SILVERWARE PLACEMAT
Maurice W. Jones, Baytown, Tex.
Application June 30, 1952, Serial No. 20,416
Term of patent 14 years
(Cl. D44—29)



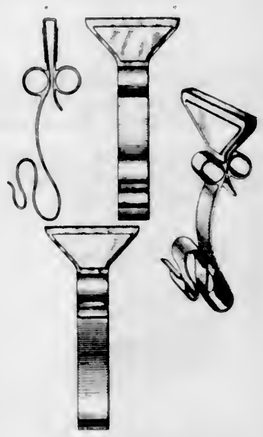
The ornamental design of a silverware placemat, substantially as shown.

167,943
GRILLE BAR FOR AN AUTOMOBILE
Henry T. King, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application September 27, 1951, Serial No. 16,759
Term of patent 7 years
(Cl. D14—18)



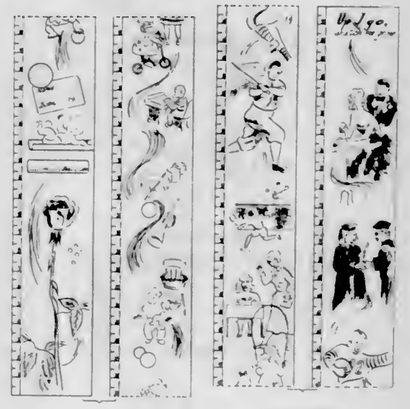
The ornamental design for a grille bar for an automobile, substantially as shown and described.

167,944
UTILITY CLIP FOR AUTOMOBILES
Edward R. Kolenda, Oak Lawn, and Victor V. Postillion, Cicero, Ill.
Application December 12, 1951, Serial No. 17,704
Term of patent 7 years
(Cl. D14—6)



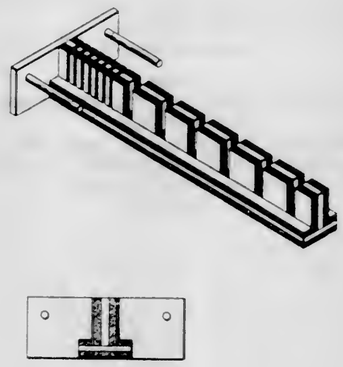
The ornamental design for a utility clip for automobiles, substantially as shown.

167,945
HEIGHT RECORD CHART
Tage Larson, Milwaukee, Wis.
Application May 14, 1952, Serial No. 19,711
Term of patent 3½ years
(Cl. D52—1)



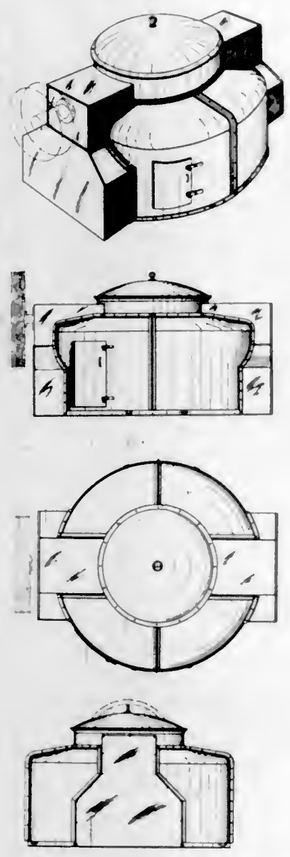
The ornamental design for a height record chart, substantially as shown and described.

167,946
SILVERWARE HOLDER
Al A. Liblick, Monterey Park, Calif.
Application February 15, 1951, Serial No. 14,230
Term of patent 14 years
(Cl. D44—29)



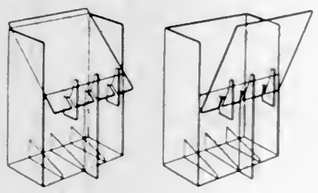
The ornamental design for a silverware holder, substantially as shown.

167,947
MULLER
Roy H. McElroy, Dayton, Ohio, assignor to International Engineering, Inc., Dayton, Ohio, a corporation of Ohio
Application November 9, 1951, Serial No. 17,339
Term of patent 14 years
(Cl. D55—1)



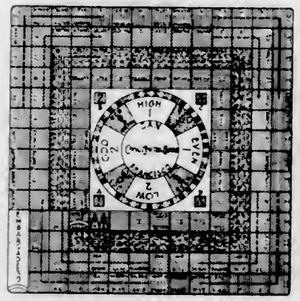
The ornamental design for a muller, substantially as shown and described.

167,948
COMBINED DISPLAY FIXTURE AND CONTAINER
Edward J. McKenna, St. Louis, Mo.
Application July 21, 1952, Serial No. 20,702
Term of patent 14 years
(Cl. D80—11)



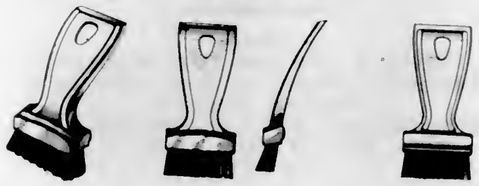
The ornamental design for a combined display fixture and container, substantially as shown.

167,949
GAME BOARD
Virgil Sherman Packard, San Francisco, Calif.
Application March 21, 1952, Serial No. 19,001
Term of patent 14 years
(Cl. D34—5)



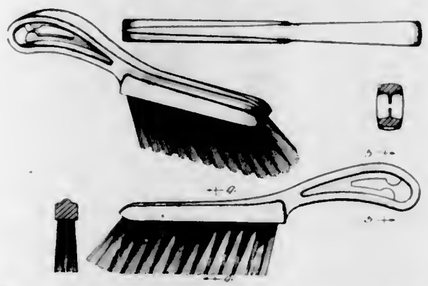
The ornamental design for a game board, as shown and described.

167,950
BRUSH FOR KITCHEN UTENSILS OR THE LIKE
Clyde A. Porter, Aurora, Ill., assignor to National Brush Company, Aurora, Ill., a corporation of Illinois
Application March 3, 1952, Serial No. 18,755
Term of patent 7 years
(Cl. D9—2)



The ornamental design for a brush for kitchen utensils or the like, substantially as shown.

167,951
CLOTHESBRUSH OR THE LIKE
Clyde A. Porter, Aurora, Ill., assignor to National Brush Company, Aurora, Ill., a corporation of Illinois
Application March 3, 1952, Serial No. 18,756
Term of patent 7 years
(Cl. D9—2)



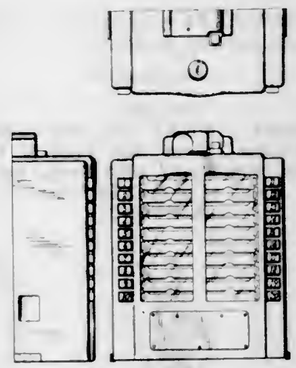
The ornamental design for a clothes brush or the like, substantially as shown.

167,952
STOCKING
Isidor Rabinowitz, Philadelphia, Pa.
Application January 2, 1952, Serial No. 17,889
Term of patent 14 years
(Cl. D47—7)



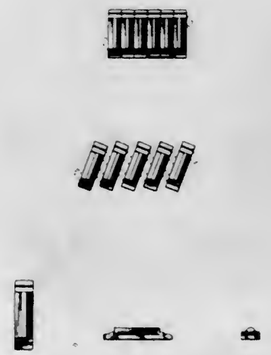
The ornamental design for a stocking, as shown.

167,953
CABINET FOR A PHONOGRAPH REMOTE-CONTROL UNIT
David C. Rockola, Chicago, Ill., assignor to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application February 16, 1951, Serial No. 14,240
Term of patent 14 years
(Cl. D26—14)



The ornamental design for a cabinet for a phonograph remote control unit, substantially as shown and described.

167,954
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application June 12, 1952, Serial No. 20,148
Term of patent 7 years
(Cl. D45—4)



The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

167,955
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application June 12, 1952, Serial No. 20,149
Term of patent 7 years
(Cl. D45—4)



The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

167,956
MACARONI
Angelo Ronzoni, Great Neck, N. Y., assignor to Ronzoni Macaroni Co. Inc., Long Island City, N. Y., a corporation of New York
Application June 5, 1952, Serial No. 20,046
Term of patent 14 years
(Cl. D8—1)



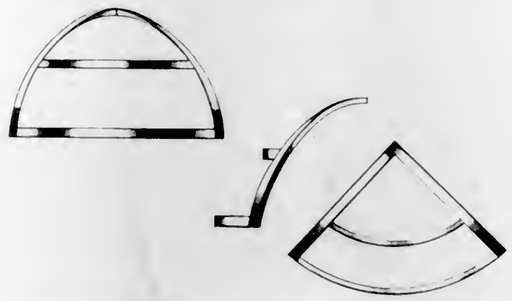
The ornamental design for macaroni, substantially as shown.

167,957
SERVING TRAY
Thomas H. Simpson, Chicago, Ill., assignor to Munising Wood Products Co., Inc., Chicago, Ill., a corporation of Delaware
Application November 5, 1951, Serial No. 17,280
Term of patent 7 years
(Cl. D44—10)



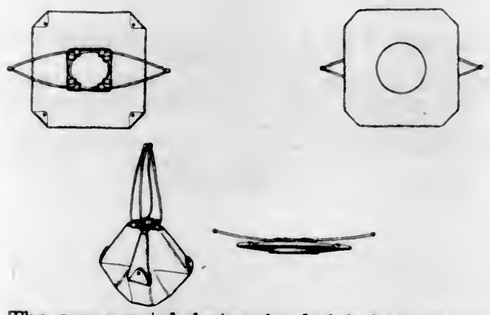
The ornamental design for a serving tray, substantially as shown and described.

167,958
CORNER RACK
Samuel L. Snyder, Mill City, Pa.
Application January 8, 1952, Serial No. 17,964
Term of patent 14 years
(Cl. D33—3)



The ornamental design for a corner rack, substantially as shown.

167,959
LADY'S HANDBAG OR THE LIKE
Leslie L. Stucker, Bronx, N. Y., assignor to Lou Goldsmith Handbag Corp., New York, N. Y., a corporation of New York
Application July 5, 1952, Serial No. 20,466
Term of patent 14 years
(Cl. D87—3)



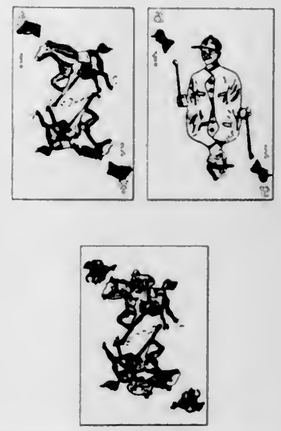
The ornamental design for lady's handbag or the like, substantially as shown.

167,960
ANIMAL FIGURE OR THE LIKE
Marianne Tuteur, New York, N. Y.
Application January 17, 1952, Serial No. 18,094
Term of patent 14 years
(Cl. D34—2)



The ornamental design for an animal figure or the like, substantially as shown.

167,961
DECK OF PLAYING CARDS
Etienne L. Vervuurt, Caracas, Venezuela
Application April 29, 1952, Serial No. 19,520
Term of patent 7 years
(Cl. D34—13)



The ornamental design for a deck of playing cards, as shown and described.

663 O. G.—38

167,962
DINNER PLATE OR SIMILAR ARTICLE
Peggy S. Vreeland, Westfield, N. J., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application November 3, 1951, Serial No. 17,249
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a dinner plate or similar article, as shown and described.

Official Gazette

UNITED STATES PATENT OFFICE

Containing the Patents, Trade-Marks, & Designs issued

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

AAA Sanitation Service Company Laboratories: *See*—
Boening, Wilfred L.

Abbott Laboratories, North Chicago, Ill. Tuberculostat. Serial No. 632,058, Oct. 21. Class 18.

Abbott Laboratories, North Chicago, Ill. Sedative, hypnotic, muscle relaxing anesthetic compound. Serial No. 632,059, Oct. 21. Class 18.

Abbott Laboratories, North Chicago, Ill. Feed supplement for animal feeds. Serial No. 633,026, Oct. 21. Class 18.

Ace Foods, Inc., The, Milwaukee, Wis. Box lunches. Serial No. 536,978, Oct. 21. Class 46.

Acme Peat Products Limited, Vancouver, British Columbia, Canada. Sphagnum moss for use as a fertilizer. Serial No. 629,924, Oct. 21. Class 10.

Addressograph-Multigraph Corporation, Cleveland, Ohio. Duplicating machines. Serial No. 626,846, Oct. 21. Class 23.

Advance Aluminum Castings Corp., Chicago, Ill. Knives, forks, spoons, etc. Serial No. 628,246, Oct. 21. Class 28.

Air Reduction Company, Incorporated, New York, N. Y. Electric arc welding apparatus, parts and accessories therefor. Serial No. 617,386, Oct. 21. Class 21.

Allied Drugs, Inc., Hackensack, N. J. Preparation for treatment of acidity. Serial No. 630,468, Oct. 21. Class 18.

Alvin Corporation, The, Providence, R. I. Sterling silver hollowware and sterling silver flatware. Serial No. 631,034, Oct. 21. Class 28.

American Cyanamid Company, New York, N. Y. Antimalarial preparation. Serial No. 632,341, Oct. 21. Class 18.

American Iron and Machine Works Company, Oklahoma City, Okla. Valve assemblies and parts thereof. Serial No. 614,531, Oct. 21. Class 23.

American Machine and Metals, Inc., East Moline, Ill. Centrifugal extractors. Serial No. 621,745, Oct. 21. Class 23.

Amicale Yarns, Inc., New York, N. Y. 100% wool yarn; and yarn composed of wool and synthetic fibers. Serial No. 581,234, Oct. 21. Class 43.

Apt Shoe Mfg. Co., Boston, Mass. Women's shoes. Serial No. 626,288, Oct. 21. Class 39.

Archer-Daniels-Midland Company: *See*—
Commander-Larabee Milling Company.

Armstrong-Hibbetts & Co., Inc., Clovis, N. Mex. Ladies' and misses' hosiery. Serial No. 618,226, Oct. 21. Class 39.

Armstrong, W. Lewis, Old Forge, N. Y. Fire fighting equipment. Serial No. 590,131, Oct. 21. Class 23.

Aro Equipment Corporation, The, Bryan, Ohio. Automotive and industrial lubricating equipment. Serial No. 597,809, Oct. 21. Class 23.

Art Specialty Company, Chicago, Ill. Table fluorescent desk lamps. Serial No. 591,973, Oct. 21. Class 21.

Arvey Corporation, Chicago, Ill. Reticular metallic base. Serial No. 624,672, Oct. 21. Class 50.

Associated Box Corporation, New Castle, Pa. Pallets, platforms, and skids. Serial No. 610,160, Oct. 21. Class 50.

Associated Merchandising Corporation, The, New York, N. Y. Men's shoes. Serial No. 622,192, Oct. 21. Class 39.

Atlanta Paper Company, Atlanta, Ga. Carriers made of paper for carrying a plurality of bottles, etc. Serial No. 624,771, Oct. 21. Class 2.

Atlantic Refining Company, The, Philadelphia, Pa. Gasoline. Serial No. 621,193, Oct. 21. Class 15.

Austin Laboratories, Inc., Buffalo, N. Y. Bougies containing autibiotics. Serial No. 629,413, Oct. 21. Class 18.

Automatic Products Co., Minneapolis, Minn. Automatic drink-vending machines. Serial No. 579,253, Oct. 21. Class 23.

Balfour, Guthrie, & Co., Limited, San Francisco, Calif. Firecrackers. Serial No. 620,950, Oct. 21. Class 9.

Ballantyne of Peebles, Incorporated, New York, N. Y. Sweaters and hosiery. Serial No. 618,336, Oct. 21. Class 39.

Bassick Company, The, Bridgeport, Conn. Furniture trimmings and hardware. Serial No. 565,747, Oct. 21. Class 13.

Baxter, Don, Inc., Glendale, Calif. Solutions for parenteral use. Serial No. 620,296, Oct. 21. Class 18.

Beeco, Inc., Chicago, Ill. Glass display signs. Serial No. 618,951, Oct. 21. Class 50.

Bendix Aviation Corporation, South Bend, Ind. Vehicle braking systems and accessories therefor. Serial No. 570,087, Oct. 21. Class 19.

Berger, John, doing business under the trade name and style of Red Seal Bird Food Co., Flushing, N. Y. Bird food. Serial No. 607,479, Oct. 21. Class 46.

Berland, Joseph, New York, N. Y. Finger rings. Serial No. 627,423, Oct. 21. Class 28.

Berner, Robert L., Company, Chicago, Ill. Raw pop corn. Serial No. 610,161, Oct. 21. Class 46.

Berry & Benson, Chicago, Ill. Men's and ladies' combination topcoats and overcoats. Serial No. 545,075, Oct. 21. Class 39.

Berst, C. J., & Co., Appleton, Wis. Cheese. Serial No. 602,997, Oct. 21. Class 46.

Big Diamond Mills Co.: *See*—
Commander-Larabee Milling Company.

Bioproducts Oreg. Ltd., Warrenton, Oreg. Preparations comprised of salmon egg meal, dehydrated liver, etc. Serial No. 519,796, Oct. 21. Class 46.

Boening, Wilfred L., doing business under the assumed name of AAA Sanitation Service Company Laboratories, Ferndale, Mich. Septic tanks. Serial No. 580,974, Oct. 21. Class 13.

Bomac Laboratories, Inc., Beverly, Mass. Electronic tubes and microwave transmission devices. Serial No. 618,286, Oct. 21. Class 21.

Boosey, Norman, Manufacturing Company, Racine, Wis. Plumbing drainage products. Serial No. 627,043, Oct. 21. Class 13.

Borchardt Fuel Co., Highland Park, Ill. Fertilizer. Serial No. 594,618, Oct. 21. Class 10.

Borden Company, The, New York, N. Y. Soybean oil meal. Serial No. 564,187, Oct. 21. Class 46.

Breon, George A., & Company, New York, N. Y. Sedative and hypnotic preparation. Serial No. 627,552, Oct. 21. Class 18.

Brevitt Shoes Limited, Leicester, England. Boots and shoes. Serial No. 619,871, Oct. 21. Class 39.

Brinsfield, J. Franklin H., trad'ng as A. B. Harris & Company, Oxford, Md. Fresh oysters and fresh crab meat. Serial No. 604,117, Oct. 21. Class 46.

Bristol Laboratories Inc., New York, and Syracuse, N. Y. Antibiotic derivative. Serial No. 630,474, Oct. 21. Class 18.

British Columbia Forest Products Limited, Vancouver, British Columbia, Canada. Cedar sidewall shakes. Serial No. 626,976, Oct. 21. Class 12.

Brown & Ackerman, Inc., New York, N. Y. Cotton broadcloth fabric. Serial No. 601,195, Oct. 21. Class 42.

Brown & Bigelow, St. Paul, Minn. Clocks. Serial No. 628,140, Oct. 21. Class 27.

Buell, Darius D., doing business under the name Buell Farm, Elmira, Mich. Farm produce. Serial No. 613,437, Oct. 21. Class 46.

Buell Farm: *See*—
Buell, Darius D.

Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. Serial No. 619,533, Oct. 21. Class 39.

Burnham & Morrill Company, Portland, Maine. Canned baked beans. Serial No. 614,196, Oct. 21. Class 46.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal preparation. Serial No. 631,539, Oct. 21. Class 18.

Candy Crafters, Inc., Lansdowne, Pa. Candy. Serial No. 619,382, Oct. 21. Class 46.

Capital City Products Company, The, Columbus, Ohio. Pure cottonseed oil. Serial No. 542,814, Oct. 21. Class 46.

Cart-Tier Company, The: *See*—
Hilliker, Frank T.

Champion Plastics Corp., New York, N. Y. Toys. Serial No. 623,337, Oct. 21. Class 22.

Ciba Limited, Basel, Switzerland. Synthetic resins for bonding sand cores. Serial No. 617,229, Oct. 21. Class 5.

Ciba Pharmaceutical Products, Inc., Summit, N. J. Ganglionic blocking agent, and solutions for parenteral injection. Serial No. 633,447, Oct. 21. Class 18.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparation. Serial No. 631,199, Oct. 21. Class 18.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparation. Serial No. 631,201, Oct. 21. Class 18.

Clement's Pastry Shop, Washington, D. C. Cakes, pies, cookies, and French pastries. Serial No. 596,481, Oct. 21. Class 46.

Coblin, Meyer, assignee: *See*—
Simplifold Manufacturing Co., Inc.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Sudsing cleaner, cleanser and detergent. Serial No. 610,411, Oct. 21. Class 52.

Columbia River Packers Association, Inc., Astoria, Oreg. Canned shad. Serial Nos. 626,980–1, Oct. 21. Class 46.

Commander-Larabee Milling Company, doing business as Big Diamond Mills Co., Minneapolis, Minn., now by merger Archer-Daniels-Midland Company. Wheat flour. Serial No. 568,033, Oct. 21. Class 46.

Commercial Controls Corporation, Rochester, N. Y. Power operated typewriters. Serial No. 593,530, Oct. 21. Class 23.

Comptoir de l'Industrie Cotonniere Société à Responsabilite Limitèe, Paris, France. Ladies' stockings. Serial No. 602,021, Oct. 21. Class 39.

Consolidated Grocers Corporation, Chicago, Ill. Canned pickles and canned fruits and vegetables. Serial No. 600,767, Oct. 21. Class 46.

Courtshire Fashions, Inc., New York, N. Y. Ladies' coats and suits. Serial No. 625,717, Oct. 21. Class 39.

Crane Co., Chicago, Ill. Waste-water-outlet cover plates. Serial No. 628,346, Oct. 21. Class 13.

Creamery Package Mfg. Company, The, Chicago, Ill. Dairy products processing equipment. Serial No. 527,883, Oct. 21. Class 2.

Cudahy Brothers Co., Cudahy, Wis. Hydrogenated lard. Serial No. 606,857, Oct. 21. Class 46.

Daily Pump Co.: *See*—
Daily, S. N.

Daily, S. N., doing business as Daily Pump Co., Quapaw, Okla. Pump. Serial No. 618,448, Oct. 21. Class 23.

Dalton Film Company, Tulsa, Okla. Leasing of motion picture film. Serial No. 616,659, Oct. 21. Class 107.

Daniels, C. R., Inc., Baltimore, Md. Roller mounted carrier boxes. Serial No. 557,437, Oct. 21. Class 19.

David Shoe Company: *See*—
Glick, Morris.

Davies-Young Soap Company, The, Dayton, Ohio. Dispensers. Serial No. 624,027, Oct. 21. Class 13.

Davison Chemical Corporation, The, Baltimore, Md. Catalyst. Serial No. 620,024, Oct. 21. Class 6.

De Land, C. M., New York, N. Y. Textile goods. Serial No. 607,739, Oct. 21. Class 42.

Deming Company, The, Salem, Ohio. Water systems. Serial No. 614,338, Oct. 21. Class 23.

Dickey's Potato Chip Co.: *See*—
Dickey, William W.

Dickey, William W., doing business under the trade name and style of Dickey's Potato Chip Co., New Orleans, La. Food products. Serial No. 613,053, Oct. 21. Class 46.

Di Mare Bros., Boston and South Boston, Mass. Shelled and unshelled nuts. Serial No. 626,865, Oct. 21. Class 46.

Divineform Brassiere Co., Inc., New York, N. Y. Ladies', women's and misses' undergarments. Serial No. 627,050, Oct. 21. Class 39.

Dixie Cone Manufacturing Company, Houston, Tex. Edible ice cream cones and cups. Serial No. 607,741, Oct. 21. Class 46.

Donaco Plastics Corporation, Chicago, Ill. Stocking dryer rack. Serial No. 578,494, Oct. 21. Class 24.

Dorr Company, The, Stamford, Conn. Apparatus for waste water treatment. Serial No. 621,357, Oct. 21. Class 23.

Dow Corning Corporation, Midland, Mich. Electrical insulatory material. Serial No. 619,818, Oct. 21. Class 21.

Drug Specialties, Incorporated, Winston-Salem, N. C. Medical preparation. Serial No. 633,147, Oct. 21. Class 18.

Dyna-Fog Corp., Vandalia, Ohio. Jet insecticidal fog generators. Serial No. 598,071, Oct. 21. Class 23.

Earl Paint Corporation, Utica, N. Y. Corrosive resisting asphalt base coating, paint primers, paint coatings, etc. Serial No. 583,990, Oct. 21. Class 16.

Edelson & Sons, Inc., Philadelphia, Pa., and New York, N. Y. Women's coats and suits. Serial No. 625,062, Oct. 21. Class 39.

Elnson, Albert, New York, N. Y. Ladies' shoes, hosiery, gloves, etc. Serial No. 616,549, Oct. 21. Class 39.

Electric Storage Battery Company, The, Philadelphia, Pa. Storage batteries and their parts. Serial No. 614,656, Oct. 21. Class 21.

Emporium Capwell Company, The, doing business as The Emporium, San Francisco, Calif. Braids, shoe and belt buckles, buttons, etc. Serial No. 620,960, Oct. 21. Class 40.

Emporium, The: *See*—
Emporium Capwell Company, The.

Essex Wire Corporation, Detroit, Mich. Bare and insulated electric wires, and insulated electrice cables, etc. Serial No. 557,349, Oct. 21. Class 21.

Fabrique Suisse des Produits au Lait Guigos S. A., Vuadens, Canton of Fribourg, Switzerland. Canned condensed milk and canned milk in powder form. Serial No. 609,289, Oct. 21. Class 46.

Farmers Feed Company, New York, N. Y. Dried brewers' grains. Serial No. 601,986, Oct. 21. Class 46.

Feed Service Corporation, Crete, Nebr. Animal feeds. Serial No. 620,096, Oct. 21. Class 46.

Firmenich Incorporated, New York, N. Y. Synthetic and natural aromatic chemicals and essential oils. Serial No. 617,614, Oct. 21. Class 52.

Flautt, John, Shoe Co., Inc., Lynn, Mass. Men's and women's shoes, sandals and slippers. Serial No. 624,881, Oct. 21. Class 39.

Fleet, C. B., Company, Incorporated, Lynchburg, Va. Preparation of amino acids, minerals and vitamins. Serial No. 631,731, Oct. 21. Class 18.

Flintkote Company, The, New York, N. Y. Roofing shingles. Serial No. 626,621, Oct. 21. Class 12.

Fountain Hill Underwear Mills, Bethlehem, Pa. Women's underwear. Serial No. 627,740, Oct. 21. Class 39.

Fricar Mfg. Co. Inc., Schenectady, N. Y. Wall type towel dispensers and parts thereof. Serial No. 616,164, Oct. 21. Class 13.

Fricar Mfg. Co. Inc., Schenectady, N. Y. Wall type towel dispensers and parts thereof. Serial No. 617,239, Oct. 21. Class 13.

Fruit of the Loom, Inc., Providence, R. I. Embroidered edgings. Serial No. 623,136, Oct. 21. Class 40.

Fry Brothers Co., The, Cincinnati, Ohio. Dry cleaning detergent. Serial No. 610,009, Oct. 21. Class 52.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 631,002, Oct. 21. Class 42.

Galen Laboratories, Pittsburgh, Pa. Medicated dandruff remover, medicated skin cream and lotion, etc. Serial No. 626,238, Oct. 21. Class 18.

Gerlach, E. A., Company, Inc., Eddington, Pa. Cleanser. Serial No. 578,591, Oct. 21. Class 52.

Girl Scouts of the United States of America, New York, N. Y. Girls' outer shirts and head scarves. Serial No. 610,683, Oct. 21. Class 39.

Glick, Morris, trading under the name David Shoe Company, Philadelphia, Pa. Boys' and girls' shoes. Serial No. 623,458, Oct. 21. Class 39.

Godman, H. C., Company, The, Columbus, Ohio. Shoes. Serial No. 567,778, Oct. 21. Class 39.

Goldberg, Benjamin D., doing business as Hide-A-Can Co., Brooklyn, N. Y. Cabinet door operated refuse cans. Serial No. 586,800, Oct. 21. Class 2.

Goldberg, S., & Co. Inc., Hackensack, N. J. House slippers. Serial No. 626,241, Oct. 21. Class 39.

Golden Rich Foods, Inc., Joliet, Ill. Toasted macaroni. Serial No. 627,386, Oct. 21. Class 46.

Gossard, H. W., Co., The, Chicago, Ill. Brassières. Serial No. 617,754, Oct. 21. Class 39.

Gravymaster Company, Inc., Long Island City, N. Y. Concentrated vegetable preparation. Serial No. 626,162, Oct. 21. Class 46.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Candy. Serial No. 626,163, Oct. 21. Class 46.

Great Eastern Equipment Corp., New York, N. Y. Electric sewing machines and parts thereof. Serial No. 628,876, Oct. 21. Class 23.

Great Eastern Equipment Corp., New York, N. Y. Electric sewing machines and parts thereof. Serial No. 626,877, Oct. 21. Class 23.

Gro-Cord Rubber Company, Lima, Ohio. Shoe soles. Serial No. 608,207, Oct. 21. Class 39.

Hand, Louis, Incorporated, New York, N. Y. Rufflings. Serial No. 621,768, Oct. 21. Class 42.

Handy Sales Manufacturing Company, Inc., Cleveland, Ohio. Hand-operated right-angle drive adapter mechanism. Serial No. 596,995, Oct. 21. Class 23.

Happy Felton Products, Inc., New York, N. Y. Entertainment services. Serial No. 615,638, Oct. 21. Class 107.

Harris, A. B., & Company: *See*—
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Hawaiian Forest Products Co., Ltd., Hilo, Territory of Hawaii. Emulsifying agents. Serial No. 575,406, Oct. 21. Class 6.

Hawley & Hoops, Inc., East Boston, Boston, Mass. Candy. Serial No. 626,082, Oct. 21. Class 46.

Hecht & Biern Inc., New York, N. Y. Knitted and woven wearing apparel. Serial No. 626,247, Oct. 21. Class 39.

Herbst Shoe Manufacturing Company, Milwaukee, Wis. Children's shoes. Serial No. 606,657, Oct. 21. Class 39.

Heyman Company Inc., The, New Orleans, La. Ropes and twines. Serial No. 626,992, Oct. 21. Class 7.

Hide-A-Can Co.: *See*—
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Hilliker, Frank T., doing business as The Cart-Tier Company, St. Louis, Mo. Hand trucks. Serial No. 608,274, Oct. 21. Class 19.

Hills Brothers Company, The, New York, N. Y. Baked apples, cherries, citron, etc. Serial Nos. 615,064–5, Oct. 21. Class 46.

House Beautiful Curtains, Inc., New York, N. Y. Window curtains. Serial No. 628,484, Oct. 21. Class 42.

Ideal Industries, Inc., Sycamore, Ill. Electric blowers and vacuum cleaners and parts thereof. Serial No. 612,455, Oct. 21. Class 21.

International Business Machines Corporation, New York, N. Y. Services comprising analyzing accounting and statistical problems. Serial No. 579,428, Oct. 21. Class 101.

International Harvester Company, Chicago, Ill. Refrigeration packaging products. Serial No. 581,958, Oct. 21. Class 2.

International Latex Corporation, Dover, Del. Hair cutters and blades therefor. Serial No. 626,034, Oct. 21. Class 23.

International Paint Company, Inc., New York, N. Y. Paint brushes. Serial Nos. 628,628–30, Oct. 21. Class 29.

Jeral Products, Inc., Chicago, Ill. Dietary supplement. Serial No. 632,985, Oct. 21. Class 18.

Johnston Water-System Co., Mansfield, Ohio. Centrifugal pumps, self-priming centrifugal pumps, etc. Serial No. 623,602, Oct. 21. Class 23.

Julius Kayser & Co., New York, N. Y. Gloves. Serial No. 625,907, Oct. 21. Class 39.

Kenwill Corporation, The, Painesville, Ohio. Ointment for the removal of paint, grime, etc., from the hands. Serial No. 626,462, Oct. 21. Class 52.

Keystone Broadcasting System, Inc., Chicago, Ill. Selling advertising time on radio broadcasting stations. Serial No. 600,288, Oct. 21. Class 101.

Kirwin & Kowall, Wilmington, Del. Wall patching material. Serial No. 622,777, Oct. 21. Class 12.

Kitty Lane Blouse Co., Inc., New York, N. Y. Ladies', misses' and girls' sportswear. Serial No. 625,356, Oct. 21. Class 39.

Krasner, Harold, doing business as Westchester Food Service, White Plains, N. Y. Pretzels. Serial No. 596,427, Oct. 21. Class 46.

Kruse, Virgil H., doing business as The Menucraft Company, Evanston, Ill. Partially printed and/or ornamented menu covers and folders, etc. Serial No. 601,738, Oct. 21. Class 37.

Kruse, Virgil H., doing business as The Menucraft Company, Evanston, Ill. Partially printed and/or ornamented menu covers and folders, etc. Serial No. 601,740, Oct. 21. Class 37.

Lactona Incorporated, St. Paul, Minn. Toothbrushes. Serial No. 584,410, Oct. 21. Class 29.

Land, Alfred E., Bluefield, W. Va. Diamond rings and mountings therefor. Serial No. 628,543, Oct. 21. Class 28.

La Playa Products, Inc., New York, N. Y. Shampoo preparation. Serial No. 570,932, Oct. 21. Class 52.

Leeds Ltd. Coats, Inc., New York, N. Y. Ladies' and misses' outerwear. Serial No. 626,331, Oct. 21. Class 39.

Leggett, Francis H., & Company, New York, N. Y. Wheat flour and coffee. Serial No. 598,024, Oct. 21. Class 46.

Lilli Ann Corp., San Francisco, Calif. Women's suits. Serial No. 626,210, Oct. 21. Class 39.

Loveman, Berger & Teitlebaum, Inc., Nashville, Tenn. Women's hosiery. Serial No. 593,731, Oct. 21. Class 39.

Macchiaroli, James, Fruit Co., Phoenix, Ariz. Fresh citrus fruits. Serial No. 627,755, Oct. 21. Class 46.

Magnex-Denver Company, The: *See*—
Wilm, Carl C.

Manna, Michael B., Jersey City, N. J. Italian style baked goods. Serial No. 619,252, Oct. 21. Class 46.

Maple Sugar Man, The: *See*—
Shelby, John, Inc.

Mara Laboratories, Inc., The, Harrison, N. J. Medicinal preparation. Serial No. 620,967, Oct. 21. Class 18.

Marcelle Cosmetics, Inc., Chicago, Ill. Face powder with sulfur, talcum powder with sulfur, and medicated face cream. Serial No. 614,089, Oct. 21. Class 51.

Mariquita Perez, S. A., Madrid, Spain. Dolls, doll clothes, doll accessories, etc. Serial No. 579,647, Oct. 21. Class 22.

Markwell Manufacturing Co., Inc., New York, N. Y. Stapling machines. Serial No. 626,520, Oct. 21. Class 23.

Marlene's, Inc., Chicago, Ill. Hair waving shampoo. Serial No. 614,884, Oct. 21. Class 52.

Marshall's Research Corporation, Tacoma, Wash. Liquid detergent preparation. Serial No. 620,162, Oct. 21. Class 4.

Marston Excelsior Limited, London, England. Tanks. Serial No. 624,280, Oct. 21. Class 2.

May, Harold E., doing business as May's Candy Shop, Mackinac Island, Mich. Candy. Serial No. 617,719, Oct. 21. Class 46.

May's Candy Shop: *See*—
May, Harold E.

McCormick Brothers Company, Albany, Ind. Floursifters. Serial No. 603,890, Oct. 21. Class 23.

McGuire Bros. Inc., Long Island City, N. Y. Rental of towels. Serial No. 613,179, Oct. 21. Class 100.

Mechanical Industries Production Company, Akron, Ohio. Thermostats. Serial No. 617,720, Oct. 21. Class 26.

Menucraft Company, The: *See*—
Kruse, Virgil H.

Mercantile Stores Company, Inc., Wilmington, Del. Blankets, textile rugs, bedspreads, etc. Serial No. 583,763, Oct. 21. Class 42.

Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Women's hats and hat bodies. Serial No. 525,641, Oct. 21. Class 39.

Michigan Peat, Inc., New York, N. Y. Peat used as a soil conditioner. Serial No. 628,364, Oct. 21. Class 10.

Milford Canning Company, Milford, Ill. Canned vegetables. Serial No. 627,395, Oct. 21. Class 46.

Millway Knitting Mill, Inc., Millway, Pa. Ladies' hosiery. Serial No. 602,464, Oct. 21. Class 39.

Mining Progress Inc., Woodbury, N. Y. Mining coal planers, mining chutes, mining conveyors, etc. Serial No. 583,656, Oct. 21. Class 23.

Mira-Sham Corporation, Chicago, Ill. Non-woven cloth-like sheet material in the nature of chamois. Serial No. 617,411, Oct. 21. Class 29.

Mishawaka Rubber and Woolen Manufacturing Company, Michawaka, Ind. Footwear. Serial No. 544,892, Oct. 21. Class 39.

Missouri Farmers Association, Inc., Columbia, Mo. Fertilizers. Serial No. 597,219, Oct. 21. Class 10.

Modern Manufacturing Co. Inc., New York, N. Y. Dresses, housedresses, aprons, etc. Serial No. 619,844, Oct. 21. Class 39.

Modiste Shoes, Inc., New York, N. Y. Ladies' and misses' shoes. Serial No. 624,558, Oct. 21. Class 39.

Monarch Paint Company, assignee: *See*—
Sicca Soya Paint Co., Inc.

Morse Sewing Machine and Supply Corp., New York, N. Y. Sewing machines. Serial No. 602,907, Oct. 21. Class 23.

Naamlooze Vennootschap Kunstzijdespinnerij Nyma, Nijmegen, Netherlands. Cords and cordage. Serial No. 621,411, Oct. 21. Class 7.

Naamlooze Vennootschap Kunstzijdespinnerij Nyma, Nijmegen, Netherlands. Yarns and threads. Serial No. 621,413, Oct. 21. Class 43.

National Association Domestic and Farm Pump Manufacturers, Chicago, Ill. Water systems. Serial No. 567,120, Oct. 21. Class 23.

National Brass Company, Grand Rapids, Mich. Door strap hinges, door knockers, mail plates, etc. Serial No. 583,165, Oct. 21. Class 13.

National Filter Media Corporation, The, New Haven, Conn. Woven filter cloth. Serial No. 627,399, Oct. 21. Class 42.

National Industries Corporation, Newark, N. J. Janitors' detergent cleaners, rug shampoos, soaps, etc. Serial No. 611,963, Oct. 21. Class 52.

New York Air Brake Company, The, Watertown and New York, N. Y. Electrically actuated valves and parts thereof and pressure-actuated electric switches. Serial No. 615,397, Oct. 21. Class 21.

Nimfees, Inc., New York, N. Y. Ladies' and misses' girdles, panty girdles, etc. Serial No. 625,754, Oct. 21. Class 39.

Nu-Lift Company, Inc., The, Hollywood, Calif. Maternity girdles, maternity belts and maternity corsets. Serial No. 586,058, Oct. 21. Class 39.

Oakford Company, The, Peoria, Ill. Dog and cat food. Serial No. 627,638, Oct. 21. Class 46.

Oneida Ltd., Oneida and Sherrill, New York, N. Y. Sterling silver flatware and hollowware. Serial No. 627,641, Oct. 21. Class 28.

Orleans Canning Company, Chicago, Ill. Dog food. Serial No. 626,044, Oct. 21. Class 46.

Osceola Foods, Inc., Osceola, Ark. Oleomargarine. Serial No. 628,864, Oct. 21. Class 46.

Osceola Foods, Inc., Osceola, Ark. Oleomargarine. Serial No. 628,954, Oct. 21. Class 46.

Palter De Liso, Inc., New York, N. Y. Ladies' shoes. Serial No. 625,755, Oct. 21. Class 39.

Para Manufacturing Co., Inc., Newark, N. J. Shower curtains and matching window drapes. Serial No. 627,769, Oct. 21. Class 42.

Pearl-Preview Shoe Co., Philadelphia, Pa. Ladies' slippers. Serial No. 605,230, Oct. 21. Class 39.

Peoples First National Bank & Trust Company, Pittsburgh, Pa. General banking and trust services. Serial No. 606,321, Oct. 21. Class 102.

Permatex Company, Inc., Brooklyn and Sheepshead Bay, N. Y. Products used on the interior and exterior of automobiles. Serial No. 606,173, Oct. 21. Class 4.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 631,086, Oct. 21. Class 18.

Pharmaceuticals, Inc., Newark, N. J. Geriatric dietary supplement. Serial No. 630,950, Oct. 21. Class 18.

Philadelphia Felt Company, Philadelphia, Pa. Seamless tubular woven cotton fabric. Serial No. 631,021, Oct. 21. Class 42.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 619,711, Oct. 21. Class 18.

Pilaf Company of California, The, Redwood City, Calif. Processed wheat, grain food. Serial No. 626,823, Oct. 21. Class 46.

Plee-Zing, Inc., Evanston, Ill. Ladies' and misses' hose. Serial No. 626,470, Oct. 21. Class 39.

Popcorn Products Corporation, Milwaukee, Wis. Raw popcorn. Serial No. 618,008, Oct. 21. Class 46.

Price Candy Company, Kansas City, Mo. Candy. Serial No. 625,756, Oct. 21. Class 46.

Price Vacuum Stores, Inc., Philadelphia, Pa. Electric sewing machines and parts thereof. Serial No. 626,002, Oct. 21. Class 23.

Prince Macaroni Manufacturing Company, doing business under the name of Roman-Prince Macaroni Co., Lowell, Mass. Spaghetti. Serial No. 601,753, Oct. 21. Class 46.

Proportioneers, Inc., Providence, R. I. Reciprocating diaphragm type pumps. Serial No. 626,411, Oct. 21. Class 23.

Quaker Silver Co., Inc., North Attleboro, Mass. Sterling silver salt and pepper shakers. Serial No. 626,047, Oct. 21. Class 28.

Quick-Seal Products, Inc., Herndon, Pa. Stemming device. Serial No. 624,501, Oct. 21. Class 9.

Read Standard Corporation: *See*—
Standard Stoker Company, Inc., The.

Red Seal Bird Food Co.: *See*—
Berger, John.

Ressan Co., Inc., Terre Haute, Ind. Liquid preparation for use in the treatment of athlete's foot. Serial No. 609,101, Oct. 21. Class 18.

Rhodes Pharmacal Co., Inc., Cleveland, Ohio. Liquid antihistaminic cough syrup. Serial No. 633,272, Oct. 21. Class 18.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Combined pilot and main burner gas valves, and pilot burners. Serial No. 628,008, Oct. 21. Class 34.

Rockford Paint Manufacturing Co., Rockford, Ill. Ready mixed colorants. Serial No. 624,300, Oct. 21. Class 16.
Romau-Prince Macaroni Co.: *See*—
Prince Macaroni Manufacturing Company.
Rystan Company, Inc., Mount Vernon, N. Y. Antiseptic preparations. Serial No. 633,275, Oct. 21. Class 18.
Sandler, A., Co., Boston, Mass. Shoes. Serial No. 626,122, Oct. 21. Class 39.
San Juan Fishing & Packing Co., Seattle, Wash. Frozen fish, frozen fish fillets, smoked fish, etc. Serial No. 628,299, Oct. 21. Class 46.
Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical preparations. Serial No. 627,963, Oct. 21. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Mercurial diuretic. Serial No. 627,970, Oct. 21. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Penicillin and sulfonamides preparation. Serial No. 627,973, Oct. 21. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Tablet containing an antacid and sedative. Serial No. 627,974, Oct. 21. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Antacid and sedative tablet. Serial No. 627,975, Oct. 21. Class 18.
Schenley Laboratories, Inc., New York, N. Y. Preparation used as a vascular protective and lipotropic agent. Serial No. 627,976, Oct. 21. Class 18.
Schering Corporation, Bloomfield, N. J. X-ray diagnostic medium. Serial No. 610,466, Oct. 21. Class 18.
Schundler, F. E., & Co. Inc., Joliet, Ill. Dry magnesia cement. Serial No. 605,233, Oct. 21. Class 12.
Scott, O. M., & Sons Company, Marysville, Ohio. Mechanical wheeled spreaders. Serial No. 625,636, Oct. 21. Class 23.
Sears, Roebuck and Co., Chicago, Ill. Electric food package sealers. Serial No. 614,847, Oct. 21. Class 21.
Sears, Roebuck and Co., Chicago, Ill. Radio receivers, radio-phonograph combinations, television receivers, etc. Serial No. 614,848, Oct. 21. Class 21.
Shaw, Frank R., Presque Isle, Maine. Potatoes. Serial No, 622,626, Oct. 21. Class 46.
Shelby, John, Inc., doing business as The Maple Sugar Man, Barre, Vt. Maple candy. Serial No. 612,709, Oct. 21. Class 46.
Shotwell Mfg. Co., The, Chicago, Ill. Assortment of candies. Serial No. 614,672, Oct. 21. Class 46.
Sicca Soya Paint Co., Inc., assignor, by mesne assignments, to Monarch Paint Company, Peoria, Ill. Synthetic resin decorative textured paint coating composition. Serial No. 579,454, Oct. 21. Class 16.
Simoniz Company: *See*—
Simoniz Company, The.
Simoniz Company, The, Chicago, Ill., now by change of name, Simoniz Company. Composition for cleaning and restoring the color of white sidewall tires. Serial No. 604,276, Oct. 21. Class 52.
Simplifold Manufacturing Co., Inc., assignor to Meyer Coblin, Los Angeles, Calif. Infants' clothing. Serial No. 590,186, Oct. 21. Class 39.
Slayman, Victor, Lindsay, Calif. Fresh deciduous fruits, fresh citrus fruits, fresh grapes, etc. Serial No. 629,129, Oct. 21. Class 46.
Small, Blanche D., doing business as Mike Small, New York, N. Y. Creating and making up fashion patterns and designs. Serial No. 599,026, Oct. 21. Class 100.
Small, Mike: *See*—
Small, Blanche D.
Smith, J. Wright, Austin, Tex. Children's auxiliary seat with steering gear and controls. Serial No. 620,114, Oct. 21. Class 19.
Squibb, E. R., & Sons, New York, N. Y. Preparation of corticotropin. Serial No. 621,732, Oct. 21. Class 18.
Staley, A. E., Manufacturing Company, Decatur, Ill. Soy-flour composition. Serial No. 613,739, Oct. 21. Class 46.
Standard Brands Incorporated, New York, N. Y. Oleomargarine. Serial No. 598,213, Oct. 21. Class 46.
Standard Stoker Company, Inc., The, New York, N. Y., now by change of name Read Standard Corporation. Endless conveyors. Serial No. 580,438, Oct. 21. Class 23.
States Development and Manufacturing Co., Chicago, Ill. Automatic light signaling device for use on automotive vehicles. Serial No. 623,086, Oct. 21. Class 19.
Stocker Manufacturing Company, Netcong, N. J. Paper bags. Serial No. 624,977, Oct. 21. Class 2.
Sun-Maid Raisin Growers of California, Fresno, Calif. Chocolate coated raisins. Serial No. 595,426, Oct. 21. Class 46.
Sutliff & Case Co., Inc., Peoria, Ill. Expectorant useful for coughs due to colds. Serial No. 578,724, Oct. 21. Class 18.
Syndicate Francais des Textiles Artificiels, Paris, France. Textile fabrics, table cloths and napkins, etc. Serial No. 605,074, Oct. 21. Class 42.
Tenn-Rock Hosiery Co., McMinnville, Tenn. Hosiery. Serial No. 626,181, Oct. 21. Class 39.
Thomas Bolton & Sons Limited, Widnes, England. Copper printing rollers. Serial No. 622,921, Oct. 21. Class 23.
Thomas, William, South River, N. J. Grease-proof, moisture-proof, vapor-proof and liquid-tight bags, pouch-like receptacles, and liners for barrels, etc. Serial No. 611,001, Oct. 21. Class 2.
Three R Co., Passaic, N. J. Botanical extract. Serial No. 599,722, Oct. 21. Class 18.
Thurman Manufacturing Company, Philadelphia, Pa. Ladies' sleeveless button vests. Serial No. 590,193, Oct. 21. Class 39.
Tru Balance Corsets, Inc., New York, N. Y. Ladies' corsets, girdles, foundation garments, etc. Serial No. 614,673, Oct. 21. Class 39.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
Union Steel Chest Corporation, Leroy, N. Y. Tool chests, and boxes. Serial No. 540,496, Oct. 21. Class 2.
United Leather Shoe Trimmings Company, Boston, Mass. Leather top lifts for shoes. Serial No. 610,151, Oct. 21. Class 39.
United Mills Corporation, Mt. Gilead, N. C. Brassières. Serial No. 627,988, Oct. 21. Class 39.
U. S. Manufacturing Corporation, Decatur, Ill. Fly swatters. Serial No. 626,274, Oct. 21. Class 50.
United States Rubber Company, New York, N. Y. Rubber composition shoe soles. Serial No. 623,264, Oct. 21. Class 39.
United Tube Corporation, Elmwood City, Pa. Decoratively-coated base metal. Serial No. 572,003, Oct. 21. Class 14.
Universal Nutritions, Inc., New York, N. Y. Lecithin product. Serial No. 619,220, Oct. 21. Class 18.
Upjohn Company, The, Kalamazoo, Mich. Ophthalmic preparation. Serial No. 631,903, Oct. 21. Class 18.
Vale Chemical Company, Inc., The, Allentown, Pa. Tablets used as an effective regulation of colonic function. Serial No. 597,991, Oct. 21. Class 18.
Walda Scott Originals, Inc., New York, N. Y. Misses' and junior suits. Serial No. 626,177, Oct. 21. Class 39.
Wallau, Alex Lee, Inc., New York, N. Y. Ladies' and children's slipper socks. Serial No. 623,443, Oct. 21. Class 39.
Ward Leonard Electric Company, Mount Vernon, N. Y. Speed and voltage regulators of motors and generators. Serial No. 597,619, Oct. 21. Class 21.
Ward Leonard Electric Company, Mount Vernon, N. Y. Magnetic amplifiers. Serial No. 597,799, Oct. 21. Class 21.
Waterville Textile Mills, Inc., Waterville, N. Y. Knit athletic union suits and athletic shirts. Serial No. 580,271, Oct. 21. Class 39.
Wayne Candies, Inc., Fort Wayne, Ind. Candies. Serial No. 613,353, Oct. 21. Class 46.
Webb, Thomas J., Company, Chicago, Ill. Coffee. Serial No. 582,810, Oct. 21. Class 46.
Webster Electric Company, Racine, Wis. Pumps. Serial No. 602,352, Oct. 21. Class 23.
Webster-Thomas Company, Boston, Mass. Canned vegetable juice cocktail, coffee, tea, etc. Serial No. 608,390, Oct. 21. Class 46.
Wellite Corporation, Tulsa, Okla. Light-weight additives. Serial No. 593,955, Oct. 21. Class 6.
Westchester Food Service: *See*—
Krasner, Harold.
West Disinfecting Company, Long Island City, N. Y. Soap. Serial No. 625,167, Oct. 21. Class 52.
Western Packing Company, Guadalupe, Calif. Fresh vegetables. Serial No. 626,127, Oct. 21. Class 46.
Wickes Corporation, The, Saginaw, Mich. Prepared graphite. Serial No. 625,874, Oct. 21. Class 1.
Wilker Bros. Co., New York, N. Y. Men's, boys', women's and girls' pajamas. Serial No. 625,938, Oct. 21. Class 39.
Williams, P. J., Co., The: *See*—
Williams, Paul J.
Williams, Paul J., doing business under the name The P. J. Williams Co., Los Angeles, Calif. Vitamin capsules. Serial No. 621,185, Oct. 21. Class 18.
Willys-Overland Motors, Inc., Toledo, Ohio. Automobiles and structural parts thereof. Serial No. 625,085, Oct. 21. Class 19.
Wilm, Carl C., trading as the Magnex-Denver Company, Denver, Colo. Pot-holders. Serial No. 617,898, Oct. 21. Class 42.
Winthrop-Stearns Inc., New York, N. Y. Analgesic, antiseptic, and decongesttive preparation. Serial No. 613,277, Oct. 21. Class 18.
Wonder Wax Company, Fresno, Calif. Specially prepared paraffin. Serial No. 618,069, Oct. 21. Class 15.
Worcester Shoe Company, Worcester, Mass. Men's shoes. Serial No. 587,520, Oct. 21. Class 39.
Wright & McGill Co., Denver, Colo. Bulk fish hooks, snelled fish hooks. Serial No. 616,576, Oct. 21. Class 22.
Zion's Cooperative Mercantile Institution, Salt Lake City, Utah. Western jeans; men's waist overalls; men's bib overalls, etc. Serial No. 623,099, Oct. 21. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott, Ann, Inc., New York, N. Y. Women's blouses. 565,616, Oct. 21; Serial No. 615,617, published July 29, 1952. Class 39.
Abbott Laboratories, North Chicago, Ill. Anticoagulant. 565,733, Oct. 21; Serial No. 625,782, published Aug. 5, 1952. Class 18.
Adamo Co.: *See*—
Adamo, Joseph M.
Adamo, Joseph M., doing business under the fictitious name and style of Adamo Co., Los Angeles, Calif. Woven carpets. 565,812, Oct. 21; Serial No. 618,138. Class 42.
Adelphi Paint & Color Works, Inc., Ozone Park, N. Y. Varnish stain, enamels. 565,471, Oct. 21; Serial No. 578,360, published May 27, 1952. Class 16.
Ainsbrooke Co. Inc., New York, N. Y. Knitted wear for men. 565,673, Oct. 21; Serial No. 620,654, published July 29, 1952. Class 39.
Aldens, Inc., Chicago, Ill. Women's and misses' wearing apparel. 565,483, Oct. 21; Serial No. 586,450, published Dec. 26, 1950. Class 39.
Allied Chemical & Dye Corporation, New York, N. Y. Bituminous paints, ready-mixed paints, oils, etc. 565,526, Oct. 21; Serial No. 602,876, published July 29, 1952. Class 16.
Allied Products, Inc., Baltimore, Md. Upholstery, drapery, slipcover, etc., fabrics. 565,716, Oct. 21; Serial No. 623,231, published Aug. 5, 1952. Class 42.
American Bag & Paper Corporation, Philadelphia, Pa. Bags. 565,543, Oct. 21; Serial No. 605,706, published July 29, 1952. Class 2.
American Carbon Paper Mfg. Company, Ennis, Tex. Carbon paper and typewriter ribbons. 565,580, Oct. 21; Serial No. 611,397, published June 24, 1952. Class 11.
American Chain & Cable Company, Inc.: *See*—
Page Steel and Wire Company.
American Chewing Products Corp., Newark, N. J. Chewing gum. 565,822, Oct. 21; Serial No. 628,891. Class 46.
American Cyanamid Company, New York, N. Y. Enzyme preparation. 565,639, Oct. 21; Serial No. 617,598, published Aug. 5, 1952. Class 18.
American Cyanamid Company, New York, N. Y. Sedative. 565,680, Oct. 21; Serial No. 620,833, published June 24, 1952. Class 18.
American Metal Specialties Corp., also known as American Metal Specialties Corporation, Hatboro, Pa. Sand boxes and wading pools. 565,809, Oct. 21; Serial No. 615,966. Class 22.
American Metal Specialties Corporation: *See*—
American Metal Specialties Corp.
American Metal Specialties Corporation, Hatboro, Pa. Toy coach for children. 565,804, Oct. 21; Serial No. 614,119. Class 22.
American Molasses Company: *See*—
Sucrest Corporation.
American Rolling Mill Company, The, Middleton, Ohio. Ferrous metal culverts and parts therefor. 503,740, Nov. 9, 1948. Canceled Aug. 25, 1952. O. G. Oct. 21. Class 12.
American Seal Paint Mfg. Co., Inc., Troy, N. Y. Outside and inside paints, wood stains, primers and sealers, etc. 565,505, Oct. 21; Serial No. 595,646, published July 1, 1952. Class 52.
American Slicing Machine Company, Chicago, Ill. Sheet metal knives. 565,670, Oct. 21; Serial No. 620,135, published June 24, 1952. Class 23.
Anarc, Incorporated, Nashville, Tenn. Ice cream and frozen custard. 565,805, Oct. 21; Serial No. 614,280. Class 46.
Andersen & Andersen, Reno, Nev. Score card holders. 565,784, Oct. 21; Serial No. 599,215. Class 37.
Anderson, Clayton & Co., Houston, Tex. Vitamin mixes. 565,525, Oct. 21; Serial No. 602,483, published June 24, 1952. Class 18.
Anderson-Prichard Oil Corporation, Oklahoma City, Okla. Petroleum pitch. 565,704, Oct. 21; Serial No. 622,476, published July 15, 1952. Class 1.
Anson Incorporated, Providence, R. I. Men's wallets. 565,778, Oct. 21; Serial No. 594,682. Class 3.
Appleton Woolen Mills, Appleton, Wis. Woolen and worsted fabrics. 565,693, Oct. 21; Serial No. 621,854, published Aug. 5, 1952. Class 42.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Shaped and multi-colored plastic sprinkles, particularly used for evening wear on the hair and eye lids. 565,581, Oct. 21; Serial No. 611,677, published July 8, 1952. Class 51.
Argarden Tweeds Limited, Edinburgh, Scotland. Tweed fabrics. 565,736, Oct. 21; Serial No. 626,229, published July 29, 1952. Class 42.
Arrestine Company, Inc., Birmingham, Ala. Medicinal tablet. 565,559, Oct. 21; Serial No. 609,352, published Aug. 5, 1952. Class 18.
Atech, Inc., Toledo, Ohio. Enamel coating. 565,608, Oct. 21; Serial No. 614,186, published July 1, 1952. Class 16.
Atech, Inc., Toledo, Ohio. Ready mixed paints, enamel paint and varnishes. 565,609, Oct. 21; Serial No. 614,187, published July 1, 1952. Class 16.
Atlas Supply Company, Newark, N. J. Storage batteries. 298,013, renewed Oct. 11, 1952. O. G. Oct. 21. Class 21.
Atlas Supply Company, Newark, N. J. Storage batteries, storage battery chargers, electric fuses, etc. 298,350, renewed Oct. 25, 1952. O. G. Oct. 21. Class 21.
Atlas Supply Company, Wilmington, Del., and Newark, N. J., to Atlas Supply Company, Newark, N. J. Storage batteries. 298,381, renewed Oct. 25, 1952. O. G. Oct. 21. Class 21.
Atlas Supply Company, Wilmington, Del., and Newark, N. J., to Atlas Supply Company, Newark, N. J. Storage batteries. 298,382, renewed Oct. 25, 1952. O. G. Oct. 21. Class 21.
Atlas Supply Company, Wilmington, Del., and Newark, N. J., to Atlas Supply Company, Newark, N. J. Storage batteries. 298,767, renewed Nov. 8, 1952. O. G. Oct. 21. Class 21.
Aust, Harry, doing business under the name and style Welmaid Hosiery Co., Philadelphia, Pa. Women's hosiery. 565,448, Oct. 21; Serial No. 552,208, published May 23, 1950. Class 39.
Autographic Register Company, Hoboken, N. J. Plain, partially lithographed, and partially printed paper strips, leaves and sheets. 565,767, Oct. 21; Serial No. 575,454. Class 37.
Avoset Company, San Francisco, Calif. Sterilized cream. 565,493, Oct. 21; Serial No. 591,274, published July 29, 1952. Class 46.
Avorn, Inc., New York, N. Y. Women's dresses and suits, brassière, etc. 565,774, Oct. 21; Serial No. 592,536. Class 39.
B. V. D. Company, Inc., The, Baltimore, Md., to The B. V. D. Company, Inc., New York, N. Y. Trunks worn as outer garments. 297,183, renewed Sept. 6, 1952. O. G. Oct. 21. Class 9.
Babbitt's Cut Rate Stores, Inc., Washington, D. C. Vitamin capsules. 565,531, Oct. 21; Serial No. 604,137, published June 24, 1952. Class 18.
Baker Importing Co. Inc., New York, N. Y., formerly Baker Importing Company. Coffee. 565,442, Oct. 21; Serial No. 546,342, published July 29, 1952. Class 46.
Baker Importing Company: *See*—
Baker Importing Co. Inc.
Balfour, Guthrie & Co., Limited, San Francisco, Calif. Firecrackers and fireworks. 298,800, renewed Nov. 8, 1952. O. G. Oct. 21. Class 9.
Bamberger, L., & Co., Newark, N. J., to R. H. Macy & Co., Inc., New York, N. Y. Children's dresses, coats, and sweater suits. 296,151, renewed July 26, 1952. O. G. Oct. 21. Class 39.
Bamberger, L., & Co., Newark, N. J., to R. H. Macy & Co., Inc., New York, N. Y. Children's furniture. 297,276, renewed Sept. 6, 1952. O. G. Oct. 21. Class 32.
Bass, William E.: *See*—
Weidlich, Frederick E.
Bassett, Geo., & Company Limited, Sheffield, England. Candy. 565,586, Oct. 21; Serial No. 612,236, published July 29, 1952. Class 46.
Bath Maid, Inc., Andrews, Ind. Laundry hamper cabinets. 565,684, Oct. 21; Serial No. 621,128, published July 29, 1952. Class 2.
Bausch & Lomb Optical Company, Rochester, N. Y. Telescopes. 565,688, Oct. 21; Serial No. 621,499, published June 3, 1952. Class 26.
Bead Chain Manufacturing Company, The, Bridgeport, Conn. Ball and socket type chains of any length and key chains. 565,566, Oct. 21; Serial No. 610,116, published July 29, 1952. Class 13.
Becker, Paul J., Stone Lake, Wis. Caulking material. 565,482, Oct. 21; Serial No. 586,390, published July 1, 1952. Class 12.
Beechler, Elmer, doing business as Remle, Hollywood, Calif. Musical instruments. 565,447, Oct. 21; Serial No. 551,758, published June 17, 1952. Class 36.
Beir-Nes Laboratories: *See*—
Beirnes, Percival W.
Beirnes, Percival W., doing business as Beir-Nes Laboratories, Los Angeles, Calif. Preparation in powder form for increasing bulk in the colon. 565,635, Oct. 21; Serial No. 617,184, published June 3, 1952. Class 18.
Belle Meade Hosiery Mills, Inc., Nashville, Tenn. Hosiery. 565,518, Oct. 21; Serial No. 599,146, published July 29, 1952. Class 39.
Bemis Bro. Bag Company, St. Louis, Mo., 565,640, Oct. 21. Coated fabric bags, Serial No. 617,646, published Feb. 12, 1952, Class 2; waterproofed paper-backed fabrics, Serial No. 617,647, published July 15, 1952, Class 42. (Consolidated certificate, Classes 2 and 42.)
Bengue Inc., Union City, N. J. Medicinal preparation. 565,479, Oct. 21; Serial No. 584,962, published June 24, 1952. Class 18.

Benmont Papers Inc., Bennington, Vt. Wrapping paper. 565,785, Oct. 21; Serial No. 599,492. Class 37.

Benson Modes, Inc., New York, N. Y. Ladies' apparel. 565,490, Oct. 21; Serial No. 589,763, published July 29, 1952. Class 39.

Berven Rug Mills, Inc., Fresno, Calif. Chenille type broadloom rugs. 565,630, Oct. 21; Serial No. 616,812, published July 29, 1952. Class 42.

Best Foods, Inc., The: *See*—
"Force" Food Company, The.
H-O (Hornby's Oatmeal) Company, The.

Best, M. O., doing business as M. O. Best Company, Phoenix, Ariz. Fresh vegetables. 565,762, Oct. 21; Serial No. 557,657. Class 46.

Best, M. O., Company: *See*—
Best, M. O.

Bilbo Knitting Company, Inc., Cohoes, N. Y. Wash cloths, baby bath blankets, baby receiving blankets, etc. 565,617, Oct. 21; Serial No. 615,753, published July 29, 1952. Class 42.

Binney & Smith Company, New York, N. Y. Tempera show card paint colors. 565,519, Oct. 21; Serial No. 599,149, published July 1, 1952. Class 16.

Binney & Smith Company, New York, N. Y. Water color paints and compact paint colors. 565,520, Oct. 21; Serial No. 599,151, published July 1, 1952. Class 16.

Binney & Smith Company, New York, N. Y. Powder paint. 565,521, Oct. 21; Serial No. 599,224, published July 1, 1952. Class 16.

Bio-Research Inc., Washington, D. C., and New York, N. Y. Preparation used for the treatment of colds. 565,689, Oct. 21; Serial No. 621,500, published Aug. 5, 1952. Class 18.

Black Lead, Inc., Winnetka, Ill. Paint-like primer. 565,574, Oct. 21; Serial No. 610,953, published July 1, 1952. Class 16.

Blossom Fabrics Corp., New York, N. Y. Rayon and nylon fabrics. 565,621, Oct. 21; Serial No. 616,010, published July 29, 1952. Class 42.

Blue Ridge Glass Corporation, Kingsport, Tenn. Flat glass. 565,575, Oct. 21; Serial No. 611,074, published July 8, 1952. Class 33.

Bohl, Frank E., Crystal Lake, Ill. Medicinal compound. 565,632, Oct. 21; Serial No. 617,010, published June 24, 1952. Class 18.

Boott Mills, Lowell, Mass. Corduroy fabrics and other fabrics in the piece. 565,811, Oct. 21; Serial No. 617,105. Class 42.

Borden Company, The, New York, N. Y. Product in dry or liquid form consisting of a mechanical mixture of egg white and derivative of soybeans with salt. 565,661, Oct. 21; Serial No. 619,532, published July 29, 1952. Class 46.

Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. 565,502, Oct. 21; Serial No. 594,305, published July 29, 1952. Class 39.

Boston Varnish Company, Everett, Mass. Varnishes, paint enamels, stains, and ready-mixed paints. 299,371, renewed Nov. 29, 1952. O. G. Oct. 21. Class 16.

Bouquet Products, Inc., St. Louis, Mo. Hair cream pomade. 565,782, Oct. 21; Serial No. 597,380, Class 18.

Bourjois, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 299,190, renewed Nov. 22, 1952. O. G. Oct. 21. Class 51.

Bourjois, Inc., New York, N. Y. Face powder. 299,339, renewed Nov. 29, 1952. O. G. Oct. 21. Class 51.

Brach, E. J., & Sons, Chicago, Ill. Candy. 565,454, Oct. 21; Serial No. 561,799, published July 29, 1952. Class 46.

Bradstone Rubber Company, doing business under the name of Park Cement & Chemical Co., Woodbine, N. J. Liquid adhesive quick-drying cement compound. 565,649, Oct. 21; Serial No. 618,727, published July 29, 1952. Class 5.

Bridgeport Brass Company, Bridgeport, Conn. Insecticides. 444,725, Oct. 21; Serial No. 501,494, published July 15, 1952. Class 6.

British Schering Limited, London, England. Seed dressing and fungicide. 565,719, Oct. 21; Serial No. 623,333, published Aug. 5, 1952. Class 6.

Broemmel Pharmaceuticals, San Francisco, Calif. Ear drops. 565,656, Oct. 21; Serial No. 619,179, published July 15, 1952. Class 18.

Brogan, Byard F., Philadelphia, Pa. Individually carded cultured pearls and cultured pearl necklaces. 565,578, Oct. 21; Serial No. 611,337, published July 8, 1952. Class 28.

Brown-Brockmeyer Company, The, Dayton, Ohio. Electrical motors and controls. 565,775, Oct. 21; Serial No. 592,756. Class 21.

Brownsey, L. M., doing business as L. M. Brownsey Supply Co., Chicago, Ill. Liquid floor cleaner, white tire cleaner, and a combination penetrating floor cleaner and grease solvent. 565,468, Oct. 21; Serial No. 577,366, published Mar. 25, 1952. Class 52.

Brownsey, L. M., Supply Co.: *See*—
Brownsey, L. M.

Bruce, E. L., Co., Memphis, Tenn. Pigmented seal penetrant and coating composition. 565,507, Oct. 21; Serial No. 595,820, published July 29, 1952. Class 16.

Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Medicinal preparation. 565,723, Oct. 21; Serial No. 623,397, published Aug. 5, 1952. Class 18.

Burrus Mills, Incorporated, doing business under the name and style of "Morten Milling Co.," Dallas and Fort Worth, Tex. Wheat flour. 565,729, Oct. 21; Serial No. 624,389, published July 29, 1952. Class 46.

Burton Brothers & Co. Inc., New York, N. Y. Piece goods. 565,645, Oct. 21; Serial No. 618,287, published July 29, 1952. Class 42.

California Cotton Mills Company: *See*—
National Automotive Fibres, Inc.

Callaway Mills Company, La Grange, Ga. Textile rugs, mats, and carpets. 565,601–2, Oct. 21; Serial Nos. 613,761–2, published July 29, 1952. Class 42.

Carlon Products Corporation, Cleveland, Ohio. Conduits. 565,623, Oct. 21; Serial No. 616,159, published July 29, 1952. Class 13.

Carter Products, Inc., New York, N. Y. Bulk laxative. 565,720–1, Oct. 21; Serial Nos. 623,334–5, published Aug. 5, 1952. Class 18.

Cashmere Pioneer Growers, Inc., Cashmere, Wash. Fresh deciduous fruits. 565,624, Oct. 21; Serial No. 616,222, published July 29, 1952. Class 46.

Catalina, Inc., Los Angeles, Calif. Swim suits. 565,801, Oct. 21; Serial No. 612,440. Class 39.

Chen Yu, Inc., assignor to Richard Hudnut, New York, N. Y. Lipstick and nail lacquer. 565,499, Oct. 21; Serial No. 592,979, published June 10, 1952. Class 51.

Ciba Limited, Basel, Switzerland. Pharmaceutical preparations. 565,565, Oct. 21; Serial No. 609,962, published June 24, 1952. Class 18.

Clark-Hutchinson Co., Boston, Mass., to International Shoe Co., St. Louis, Mo. Boots, shoes, and slippers, etc. 39,170, re-renewed Nov. 4, 1952. O. G. Oct. 21. Class 39.

Clover Farm Stores Corporation, Cleveland, Ohio. Razor blades. 565,692, Oct. 21; Serial No. 621,815, published July 22, 1952. Class 23.

Cluett, Peabody & Co., Inc., Troy, N. Y. Piece goods. 565,667, Oct. 21; Serial No. 619,989, published July 29, 1952. Class 42.

Cluett, Peabody & Co., Inc., Troy, N. Y. Piece goods. 565,668, Oct. 21; Serial No. 619,991, published Aug. 5, 1952. Class 42.

Cohoes Envelope Company, Inc., Cohoes, N. Y. Paper envelopes for phonograph records. 565,554, Oct. 21; Serial No. 608,189, published June 17, 1952. Class 36.

Colgate & Co., Jersey City, N. J., and New York, N. Y., to Colgate-Palmolive-Peet Company, Jersey, City, N. J. Liquid and powdered perfumes. 89,226, re-renewed Dec. 3, 1952. O. G. Oct. 21. Class 51.

Colgate-Palmolive-Peet Company: *See*—
Colgate & Co.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 565,459, Oct. 21; Serial No. 568,097, published Aug. 5, 1952. Class 52.

Colton Razor Blade Company: *See*—
Roth, Otto, Inc.

Colt's Manufacturing Company: *See*—
Colt's Patent Fire Arms Manufacturing Co.

Colt's Patent Fire Arms Manufacturing Co., to Colt's Manufacturing Company, Hartford, Conn. Pistols. 295,029, renewed June 14, 1952. O. G. Oct. 21. Class 9.

Commercial Solvents Corporation, New York, N. Y. Vitamin concentrates. 565,631, Oct. 21; Serial No. 616,899, published June 24, 1952. Class 18.

"Compagnie Pan-Europeenne d'Installations et d'Equipement Industriels," S. A. R. L., Paris, (Seine), France. Gas generators, regenerators, coke ovens, and devolatilization chambers. 565,498, Oct. 21; Serial No. 592,549, published June 24, 1952. Class 34.

Consolidated Grocers Corporation, Chicago, Ill. Toilet soap, soap flakes, window cleaner, etc. 565,560, Oct. 21; Serial No. 609,477, published July 15, 1952. Class 52.

Consolidated Iron-Steel Mfg. Co., The, Cleveland, Ohio. Hot plates. 565,599, Oct. 21; Serial No. 613,585, published June 24. Class 34.

Consolidated Royal Chemical Corporation, Chicago, Ill. Pharmaceutical preparation. 565,540, Oct. 21; Serial No. 605,251, published June 24, 1952. Class 18.

Consolidated Vultee Aircraft Corporation, San Diego, Calif. Airplanes. 565,810, Oct. 21; Serial No. 617,012. Class 19.

Container Corporation of America, Chicago, Ill. Folding cartons. 565,800, Oct. 21; Serial No. 611,943. Class 2.

Coral Records, Inc., New York, N. Y. Mechanically grooved phonograph records. 565,613, Oct. 21; Serial No. 614,985, published June 17, 1952. Class 36.

Corman Leather Company, Inc., Chelsea, Mass. Boot and shoe heels. 565,764, Oct. 21; Serial No. 560,550. Class 39.

Cox and Tanz: *See*—
Tanz, Eugene R.

Cricket Hill Pottery, New York, N. Y. Electrical table, floor, ceiling and wall lamps. 565,768, Oct. 21; Serial No. 579,670. Class 21.

Curtenius, Frederick B., doing business as The Curtman Company, Kalamazoo, Mich. Brake pedal attachments. 565,786, Oct. 21; Serial No. 600,880. Class 19.

Curtis, John W., Topeka, Kans. Multiple vitamins and skin ointment. 565,627, Oct. 21; Serial No. 616,700, published June 24, 1952. Class 18.

Curtman Company, The: *See*—
Curtenius, Frederick B.

Darlington Fabrics Corporation, New York, N. Y. Elastic net fabrics. 565,700, Oct. 21; Serial No. 622,381, published Aug. 5, 1952. Class 42.

Davey Tree Expert Company, The, Kent, Ohio. Tree-wound dressing containing asphalt and waterproofer. 565,463, Oct. 21; Serial No. 570,740, published July 8, 1952. Class 16.

Davids Gloves, Inc., Springfield, Ohio. Work gloves. 565,707–8, Oct. 21; Serial Nos. 622,582–3, published July 29, 1952. Class 39.

Davis & Geck, Inc., Brooklyn, N. Y. Antibiotic surgical powder. 565,717, Oct. 21; Serial No. 623,241, published Aug. 5, 1952. Class 18.

Dean Milk Company, Franklin Park, Ill. Dairy products. 565,607, Oct. 21; Serial No. 614,136, published July 29, 1952. Class 46.

De Laval, Carl G., Jr., Pittsburgh, Pa. Reverberatory industrial furnaces. 565,694, Oct. 21; Serial No. 621,888, published July 8, 1952. Class 34.

De Laval Separator Company, The, New York, to The De Laval Separator Company, Poughkeepsie, N. Y. Centrifugal cream separating machines. 294,733, renewed June 7, 1952. O. G. Oct. 21. Class 23.

De Laval Separator Company, The, New York, to The De Laval Separator Company, Poughkeepsie, N. Y. Cream. 294,987, renewed June 14, 1952. O. G. Oct. 21. Class 46.

Dennis Mitchell Industries, Philadelphia, Pa. Collapsible shopping cart. 565,781, Oct. 21; Serial No. 595,711. Class 19.

Denver Fire Clay Company, The, Denver, Colo. Oil burners. 532,514, Oct. 24, 1950. Canceled Aug. 25, 1952. O. G. Oct. 21. Class 34.

De Soto Paint & Varnish Co., Memphis, Tenn. Wall finishes. 565,542, Oct. 21; Serial No. 605,645, published July 29, 1952. Class 16.

Dexter Laboratories, New York, N. Y. Sedative. 565,584, Oct. 21; Serial No. 611,946, published July 8, 1952. Class 18.

Ditto, Incorporated, Chicago, Ill. Composition for duplicating processes. 565,604, Oct. 21; Serial No. 613,805, published Aug. 5, 1952. Class 6.

Dixie Whip Sales Corporation, The, Atlanta, Ga. Liquid vegetable derived product. 565,814, Oct. 21; Serial No. 618,629. Class 46.

Drink A Banana, Inc., assignee: *See*—
Warnes, Burton D.

Du Pont, E. I., de Nemours and Company: *See*—
Mountain Varnish & Color Works, Inc., The.

Dutchess Underwear Corporation, New York, N. Y. Ladies' wearing apparel. 565,813, Oct. 21; Serial No. 618,485. Class 39.

Dutchess Underwear Corporation, New York, N. Y. Ladies' wearing apparel. 565,816, Oct. 21; Serial No. 619,819. Class 39.

Eagle Pencil Company, New York, N. Y. Compasses and dividers. 296,346, renewed Aug. 2, 1952. O. G. Oct. 21. Class 26.

Eastern Machine Products Co.: *See*—
Eastern Venetian Blind Company, The.

Eastern Venetian Blind Company, The, trading as Eastern Machine Products Co., Baltimore, Md. Drapery hardware. 565,665, Oct. 21; Serial No. 619,931, published July 29, 1952. Class 13.

Eastern Venetian Blind Company, The, trading as Eastern Machine Products Co., Baltimore, Md. Drapery hardware. 565,709, Oct. 21; Serial No. 622,584, published July 22, 1952. Class 13.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Aromatic amines, alkyl aminophenols, alkylated phenols, etc. 565,727, Oct. 21; Serial No. 623,753, published Aug. 5, 1952. Class 6.

Eaton Laboratories, Inc., assignee: *See*—
Norwich Pharmacal Company, The,

Eicher, Benjamin L., doing business as Koenig Laboratories, Chicago, Ill. Preparations for the treatment of epileptic fits, falling-sickness, St. Vitus' dance, etc. 565,671, Oct. 21; Serial No. 620,407, published Aug. 5, 1952. Class 18.

Eisentrager, Russell C., Philadelphia, Pa., trading under the name Monogram Products Co. Sectional refractory furnace casings. 565,464, Oct. 21; Serial No. 570,839, published June 24, 1952. Class 34.

Embers, Inc., Miami Beach, Fla. Pheasants, squab, guinea hens, etc. 565,606, Oct. 21; Serial No. 613,977, published July 29, 1952. Class 46.

Essence, Inc., Fairmount, Ind. Canned frozen concentrated orange juice. 565,779, Oct. 21; Serial No. 595,069. Class 46.

Etablissements Veuve Louis Tant, Roulers, Belgium. Woven textile fabrics. 565,547, Oct. 21; Serial No. 607,010, published July 29, 1952. Class 42.

Excell Laboratories, Inc., Chicago, Ill. Plant fertilizers. 565,747, Oct. 21; Serial No. 628,750, published July 29, 1952. Class 10.

Failing, George E., Supply Company, Enid, Okla. Earth drilling machines and drilling bits. 565,473, Oct. 21; Serial No. 578,873, published June 17, 1952. Class 23.

Falkenhainer Corporation, The, Los Angeles and Beverly Hills, Calif. Medicinal preparation. 565,734, Oct. 21; Serial No. 625,977, published Aug. 5, 1952. Class 18.

Farboil Company, The, Baltimore, Md. Paints. 565,646, Oct. 21; Serial No. 618,391, published July 22, 1952. Class 16.

Faulkner Laboratories: *See*—
Faulkner, Thomas G.

Faulkner, Thomas G., doing business in the name of Faulkner Laboratories, Tampa, Fla. Plastic sign letters. 565,821, Oct. 21; Serial No. 626,201. Class 50.

Ferro Corporation: *See*—
Ferro Enamel Corporation.

Ferro Enamel Corporation, Cleveland, Ohio, now by change of name Ferro Corporation. Ready mixed indus rial baking enamels. 565,532, Oct. 21; Serial No. 604,361, published July 29, 1952. Class 16.

Findley, F. G., Company, The, Milwaukee, Wis. Lacquer type of adhesive cement. 565,650, Oct. 21; Serial No. 618,736, published July 29, 1952. Class 5.

Flair Jewelry Corporation, New York, N. Y. Watches and watch cases. 565,600, Oct. 21; Serial No. 613,667, published July 8, 1952. Class 27.

Fleetwood Coffee Company: *See*—
King Dobbs & Company.

"Force" Food Company, The, Buffalo, to The Best Foods, Inc., New York, N. Y. Cereal food products. 39,313, re-renewed Nov. 18, 1952. O. G. Oct. 21. Class 46.

Forstner Chain Corporation, Irvington, N. J. Jewelry. 565,538, Oct. 21; Serial No. 605,207, published July 8, 1952. Class 28.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper, paper towels, paper napkins, etc. 298,870, renewed Nov. 8, 1952. O. G. Oct. 21. Class 37.

Foster, Addison, Narberth, Pa. Grooved phonograph records. 565,722, Oct. 21; Serial No. 623,346, published July 15, 1952. Class 36.

Frosst, Charles E., & Co., Montreal, Quebec, Canada. Pharmaceutical preparation. 565,571, Oct. 21; Serial No. 610,435, published Aug. 5, 1952. Class 18.

Fulton Bag & Cotton Mills, Atlanta, Ga. Rayon fabrics, cotton sheeting, and Osnaburg fabrics. 565,681, Oct. 21; Serial No. 620,885, published Aug. 5, 1952. Class 42.

Fulton, William, & Sons, Ltd., Paisley, Scotland. Cloths and stuffs of wool, worsted, or hair. 38,564, re-renewed July 8, 1952. O. G. Oct. 21. Class 42.

Gardiner Manufacturing Company, Inc., Buffalo, N. Y. Sodium hypochlorite solution for use in washing clothes, etc. 565,705, Oct. 21; Serial No. 622,532, published July 29, 1952. Class 52.

Geigy Company, Inc., New York, N. Y. Expectorant and preparation for coughs. 565,536, Oct. 21; Serial No. 605,155, published June 24, 1952. Class 18.

General Electric Company, Schenectady, N. Y. Exothermic reaction apparatus. 565,495, Oct. 21; Serial No. 591,777, published July 15, 1952. Class 34.

General Motors Corporation, Detroit, Mich. Maintenance service. 565,749, Oct. 21; Serial No. 567,258, published July 29, 1952. Class 103.

General Paint Corporation, San Francisco, Calif. Ready-mixed paints. 565,548, Oct. 21; Serial No. 607,014, published July 1, 1952. Class 16.

Georgia Peanut Company, Moultrie, Ga. Shelled peanuts. 565,766, Oct. 21; Serial No. 573,539. Class 46.

Gerson-Stewart Corporation, The, Cleveland, Ohio. Floor, woodwork and furniture polishes. 295,062, renewed June 14, 1952. O. G. Oct. 21. Class 4.

Gerst, Arthur J., doing business as Sausage Industry Suppliers and also as Sausage Industry Supplies, San Jose, Calif. Sausage seasonings. 565,597, Oct. 21; Serial No. 613,405, published July 29, 1952. Class 46.

Gladding, McBean & Co., Los Angeles, Calif. Ceramic wall and floor tile. 565,494, Oct. 21; Serial No. 591,569, published July 1, 1952. Class 12.

Glamour Products Company, Los Angeles, Calif. Dietary supplement. 565,500, Oct. 21; Serial No. 593,917, published July 17, 1951. Class 18.

Gleitsman's, Inc., Long Island City, N. Y. Clothes hampers. 565,472, Oct. 21; Serial No. 578,686, published July 29, 1952. Class 2.

Glo-Lure, Inc., Medford, Wis. Apparatus for casting articles. 565,776, Oct. 21; Serial No. 594,043. Class 22.

Goldblatt Bros. Inc., Chicago, Ill. Electrically operated ½ ton, ¾ horse power unit air conditioners. 565,491, Oct. 21; Serial No. 589,847, published Feb. 27, 1951. Class 34.

Goldsmith Bros., New York, N. Y. Wire machine staples. 565,732, Oct. 21; Serial No. 625,591, published July 22, 1952. Class 13.

Gosse, F. A., Company, Seattle, Wash. Canned fish. 297,949, renewed Oct. 4, 1952. O. G. Oct. 21. Class 46.

Gotham Hosiery Company, Inc., New York, N. Y. Women's hosiery and men's hose. 565,664, Oct. 21; Serial No. 619,827, published July 29, 1952. Class 39.

Grainger, W. W., Inc., Chicago, Ill. Blowers, exhaust fans, air conditioners, etc. 565,625, Oct. 21; Serial No. 616,664, published June 24, 1952. Class 34.

Greenbaum, Jimmie, Specialties, Inc., Cleveland, Ohio. Women's and girls' sweaters, blouses, skirts, etc. 565,773, Oct. 21; Serial No. 590,362. Class 39.

Green Giant Company, Le Sueur, Minn. Canned peas. 565,582, Oct. 21; Serial No. 611,779, published July 29, 1952. Class 46.

Green Lane Hosiery Co., Inc., Green Lane, Pa. Ladies' stockings. 565,806, Oct. 21; Serial No. 614,345. Class 39.

Gregory and House, Inc., Cleveland, Ohio. Entertainment services. 565,754, Oct. 21; Serial No. 604,528, published July 29, 1952. Class 107.

Greist Manufacturing Company, The, New Haven, Conn. Attachments for sewing machines. 87,623, July 30, 1912. Republished Oct. 21. Class 23.

Gubelin International Corporation, New York, N. Y. Bolts and screws. 565,662, Oct. 21; Serial No. 619,619, published July 29, 1952. Class 13.

H-O (Hornby's Oatmeal) Company, The, Buffalo and New York, to The Best Foods, Inc., New York, N. Y. Cereal food products. 39,374, re-renewed Dec. 2, 1952. O. G. Oct. 21. Class 46.

H & S Mfg. Co., Bay City, Mich. Hydraulic hand lift trucks. 565,658, Oct. 21; Serial No. 619,241, published July 1, 1952. Class 23.

Hafner Associates, Inc., Long Island City, N. Y. Woven plastic fabrics. 565,735, Oct. 21; Serial No. 626,164, published July 29, 1952. Class 42.

Hainke, Paul, Manufacturing Company, The: *See*—
Hainke, Paul W.

Hainke, Paul, Mower Corporation, Inc., The, assignee: *See*—
Hainke, Paul W.

Hainke, Paul W., doing business as The Paul Hainke Manufacturing Company, assignor to The Paul Hainke Mower Corporation, Inc., Hutchinson, Kans. Power driven lawn mowers. 565,761, Oct. 21; Serial No. 507,723. Class 23.

Hairnet Corporation of America, New York, N. Y. Hairnets. 565,706, Oct. 21; Serial No. 622,539, published July 29, 1952. Class 39.

Hall, Gardiner, Jr., Company, The, South Willington, Conn., and New York, N. Y., to The Gardiner Hall Jr. Company, South Willington, Conn. Thread. 294,991, renewed June 14, 1952. O. G. Oct. 21. Class 43.

Handy-Andy Specialty Co., Inc., Long Island City, N. Y. Towel bars, towel rings, shelves and brackets. 565,731, Oct. 21; Serial No. 625,473, published July 29, 1952. Class 13.

Hann, William E., Los Angeles, Calif. Combined trailer and small pleasure-type fishing or row boat. 542,166, May 8, 1951. Canceled Sept. 2, 1952. O. G. Oct. 21. Class 19.

Harmolin, Inc., San Diego and La Mesa, Calif. String instruments. 565,622, Oct. 21; Serial No. 616,098, published June 17, 1952. Class 36.

Harrison Paint & Varnish Company, The, Canton, Ohio. Ready mixed oil paints and enamels. 565,686, Oct. 21; Serial No. 621,264, published July 1, 1952. Class 16.

Harrower Laboratory, Inc., The, Jersey City, N. J. Antacid absorbent anti-spasmodic sedative mixture. 565,651, Oct. 21; Serial No. 618,792, published July 15, 1952. Class 18.

Hartford Live Poultry, Hartford, Conn. Fresh and quick frozen dressed poultry. 565,803, Oct. 21; Serial No. 613,773. Class 46.

Hawkinson, Paul E., Company, Minneapolis, Minn. Inside tire paint and lubricant. 565,683, Oct. 21; Serial No. 621,062, published July 1, 1952. Class 16.

Hecht Bros.: *See*—
Hecht Co., The.

Hecht Co., The, Washington, D. C., and also doing business as The Hub, Baltimore, Md., to The Hecht Company, Washington, D. C., and Silver Spring and Baltimore, Md., also trading as The Hub and Hecht Bros., Baltimore, Md., and Hecht Bros., New York, N. Y. Women's apparel. 298,483, renewed Oct. 25, 1952. O. G. Oct. 21. Class 39.

Hecht Company, The: *See*—
Hecht Co., The.

Hecker-H-O Company, Inc., Buffalo, N. Y. Cereal foods. 218,937, Oct. 5, 1926. Canceled Aug. 25, 1952. O. G. Oct. 21. Class 46.

Heller, William, Incorporated, New York, N. Y. Piece goods. 565,549, Oct. 21; Serial No. 607,020, published Mar. 11, 1952. Class 42.

Henry, De Witt P., Co.: *See*—
Henry, De Witt P., Co., Inc.

Henry, De Witt P., Co., Inc., sometimes doing business as De Witt P. Henry Co., Philadelphia, Pa. Candy. 565,592, Oct. 21; Serial No. 612,861, published July 29, 1952. Class 46.

Hillyard Chemical Company, St. Joseph, Mo. Self-polishing liquid wax. 565,458, Oct. 21; Serial No. 565,053, published June 24, 1952. Class 4.

Hoffman, A. H., Inc., Landisville, Pa. Farm or field seeds. 565,655, Oct. 21; Serial No. 619,162, published July 15, 1952. Class 1.

Hoffman, Samuel: *See*—
Weidlich, Frederick E.

Hollingshead, R. M., Corporation, Camden, N. J. Varnish stains; wood stains; oil stains; etc. 565,465, Oct. 21; Serial No. 574,772, published July 29, 1952. Class 16.

Howse, Mead & Sons, Inc., New York, N. Y. Worsted fabric. 565,642, Oct. 21; Serial No. 617,878, published July 29, 1952. Class 42.

Hub, The: *See*—
Hecht Co., The.

Hubinger Company, The, Keokuk, Iowa. Corn starch. 297,646, renewed Sept. 20, 1952. O. G. Oct. 21. Class 46.

Hudnut, Richard, assignee: *See*—
Chen Yu, Inc.

Hughes, E. Griffiths, Limited, Manchester, England. Medicinal preparations. 565,545, Oct. 21; Serial No. 606,424, published June 24, 1952. Class 18.

Hull, R. O., & Company, Inc., Rocky River, Ohio. Various chemical compounds. 565,738, Oct. 21; Serial No. 626,570, published July 15, 1952. Class 6.

Hutchinson Company, Manufacturers: *See*—
Hutchinson, G. R.

Hutchinson, G. R., doing business as Hutchinson Company, Manufacturers, Shreveport, La. Grill guards, bumpers, and spare tire carriers. 565,819, Oct. 21; Serial No. 622,941. Class 19.

Ideal Novelty & Toy Co., Brooklyn, to Ideal Toy Corporation, Hollis, N. Y. Dolls. 299,540, renewed Dec. 6, 1952. O. G. Oct. 21. Class 22.

Ideal Toy Corporation: *See*—
Ideal Novelty & Toy Co.

Imperial Chemical Industries Limited, London and Millbank, London, England. Chemical substances. 565,503, Oct. 21; Serial No. 594,785, published June 24, 1952. Class 18.

International Paint Company, Inc., New York, N. Y. Ready mixed paints. 565,516, Oct. 21; Serial No. 598,366, published July 1, 1952. Class 16.

International Paint Company, Inc., New York, N. Y. Ready-mixed oil paints and varnishes. 565,533, Oct. 21; Serial No. 604,479, published July 1, 1952. Class 16.

International Shoe Co.: *See*—
Clark-Hutchinson Co.

International Wire Works, Menasha, Wis. Woven wire pieces utilized for the patching of Fourdrinier wires. 565,710, Oct. 21; Serial No. 622,828, published July 15, 1952. Class 13.

Ivers-Lee Company, Newark, N. J. Packaging for others of small articles, etc. 565,756, Oct. 21; Serial No. 613,226, published July 22, 1952. Class 100.

Ives-Cameron Company, Inc., New York, N. Y. Vitamins and minerals in combined dosage form. 565,569, Oct. 21; Serial No. 610,322, published Aug. 5, 1952. Class 18.

Ivorex Plastics, New York, N. Y. Dishes, trays and empty jewelry boxes. 565,457, Oct. 21; Serial No. 564,200, published July 29, 1952. Class 2.

Jackson-Mitchell Pharmaceuticals, Inc., Los Angeles, Calif. Multivitamin preparation. 565,614, Oct. 21; Serial No. 615,326, published June 24, 1952. Class 18.

Jantzen Knitting Mills Inc., Portland, Oreg. Knitted fabric. 565,589, Oct. 21; Serial No. 612,694, published July 29, 1952. Class 42.

Jelke, John F., Company, Chicago, Ill., to Lever Brothers Company, New York, N. Y. Oleomargarine, evaporated milk, mayonnaise, etc. 299,345, renewed Nov. 29, 1952. O. G. Oct. 21. Class 46.

Jim-E-Rub Company, Reading, Pa. Liquid rub solution. 565,657, Oct. 21; Serial No. 619,199, published Aug. 5, 1952. Class 18.

Johns-Manville Corporation, New York, N. Y. Asbestos, cotton, fibrous, and metal machinery packings. 295,563, renewed July 5, 1952. O. G. Oct. 21. Class 35.

Johns-Manville Corporation, New York, N. Y. Refractory cements. 295,784, renewed July 12, 1952. O. G. Oct. 21. Class 12.

Jones, Sterling, Laboratories, doing business as R. A. Myers & Company, St. Paul, Minn. Powdered, flaked, and paste wax and self-polishing liquid wax. 565,455, Oct. 21; Serial No. 562,641, published June 24, 1952. Class 4.

Joyce-Cridland Co., The, Dayton, Ohio. Controlling mechanisms for automobile lifts. 565,481, Oct. 21; Serial No. 585,940, published July 22, 1952. Class 13.

Kalart Company Inc., The, Stamford, Conn. Photographic attachments and photographic accessories. 444,726, Oct. 21; Serial No. 515,882, published June 3, 1952. Class 26.

Kalex Corporation, New York, N. Y. Clocks. 565,527, Oct. 21; Serial No. 603,297, published June 17, 1952. Class 27.

Kaplan, Irving D.: *See*—
La Playa Products, Inc.

Kay-Cee Industrial Products, New York, N. Y. Transparent plastic tape. 565,701, Oct. 21; Serial No. 622,391, published July 29, 1952. Class 5.

Kedmont Manufacturing & Waterproofing Co., Chicago, Ill. Transparent water-repellent or water-proofing composition. 565,652, Oct. 21; Serial No. 618,970, published July 1, 1952. Class 16.

Kegan Laboratory, Inc., Englewood, N. J. Extract used as a medicine tonic. 565,529, Oct. 21; Serial No. 603,931, published June 24, 1952. Class 18.

Kellogg, H. M.: *See*—
Kellogg, Henry M.

Kellogg, Henry M., doing business as H. M. Kellogg, Stratford, Conn. Kitchen utensils. 565,595, Oct. 21; Serial No. 613,295, published July 1, 1952. Class 23.

Kelly Photo Supply, Chicago, Ill. Photographic cameras, lenses, and camera carrying cases. 536,954, Jan. 23, 1951. Canceled Sept. 2, 1952. O. G. Oct. 21. Class 26.

Kendall Company, The, Walpole, Mass. Non-woven fabrics. 565,501, Oct. 21; Serial No. 593,990, published July 29, 1952. Class 42.

Keystone Laboratories, Inc., Memphis, Tenn. Hair dressing. 565,528, Oct. 21; Serial No. 603,795, published June 17, 1952. Class 51.

Kiekhaefer Corporation, Cedarburg, Wis. Outboard motor units and parts thereof. 565,610, Oct. 21; Serial No. 614,302, published July 22, 1952. Class 23.

King Dobbs & Company, to Fleetwood Coffee Company, Chattanooga, Tenn. Canned fruits, canned vegetables, catsup, etc. 299,020, renewed Nov. 15, 1952. O. G. Oct. 21. Class 46.

Koenig Laboratories: *See*—
Eicher, Benjamin L.

Koppers Company, Inc., Pittsburgh, Pa. Technical industrial and house paints, enamels; etc. 565,466, Oct. 21; Serial No. 576,413, published July 29, 1952. Class 16.

Koppers Company, Inc., Pittsburgh, Pa. Phenolic type resin adhesives. 565,647, Oct. 21; Serial No. 618,499, published July 29, 1952. Class 5.

Koppers Company, Inc., Pittsburgh, Pa. Ready-mixed paint. 565,697, Oct. 21; Serial No. 622,112, published July 29, 1952. Class 16.

Kracketts Company, Richardson, Tex. Partially prepared tomato, onion, potato and cheese puffs. 565,452, Oct. 21; Serial No. 561,196, published Aug. 1, 1950. Class 46.

Kracketts Company, Richardson, Tex. Partially prepared tomato, onion, potato, and cheese puffs. 565,453, Oct. 21; Serial No. 561,197, published July 25, 1950. Class 46.

Kranich & Bach, New York, N. Y. Pianos. 565,467, Oct. 21; Serial No. 576,974, published June 17, 1952. Class 36.

Laboratoires Francais de Chimiotherapie, Paris, France. Medicinal preparation. 565,577, Oct. 21; Serial No. 611,282, published Nov. 6, 1951. Class 18.

Lakeside Laboratories, Inc., Milwaukee, Wis. Tablet medication. 565,685, Oct. 21; Serial No. 621,152, published June 24, 1952. Class 18.

Lannoy, Anna M., Chicago, Ill. Infant's sleeping bags. 565,563, Oct. 21; Serial No. 609,865, published July 29, 1952. Class 39.

La Playa Products, Inc., New York, N. Y., assignee of I. D. Kaplan, Color shampoo blender. 565,763, Oct. 21; Serial No. 558,398. Class 52.

Laros Textiles Company, Bethlehem, Pa. Ladies' hosiery. 565,470, Oct. 21; Serial No. 578,030, published July 29, 1952. Class 39.

Larroque Drug Co., Jeanerette, La. Medicinal preparation. 565,644, Oct. 21; Serial No. 618,049, published June 10, 1952. Class 18.

Lee Knitwear Corp., New York, N. Y. Beachwear. 565,791, Oct. 21; Serial No. 609,873. Class 39.

Leeds and Northrup Company, Philadelphia, Pa. High sensitivity high speed recorders. 294,809, renewed June 7, 1952. O. G. Oct. 21. Class 26.

Lever Brothers Company: *See*—
Jelke, John F., Company.

Lever Brothers Company, New York, N. Y. Shaving cream. 565,653, Oct. 21; Serial No. 619,093, published July 1, 1952. Class 51.

Levow, David, New York, N. Y. Mops and mop heads. 565,588, Oct. 21; Serial No. 612,501, published July 1, 1952. Class 29.

Lilyette Brassiere Co., Inc., New York, N. Y. Brassières. 565,728, Oct. 21; Serial No. 624,342, published July 29, 1952. Class 39.

Lindig, Arthur A., doing business under the name and style of Midway Seed Company, St. Paul, Minn. Fertilizer, potting soil, plant food, etc. 565,669, Oct. 21; Serial No. 620,006, published July 29, 1952. Class 10.

Lippmann Engineering Works, Milwaukee, Wis. Rock crushers. 565,480, Oct. 21; Serial No. 585,884, published July 22, 1952. Class 23.

Lovejoy Flexible Coupling Company, Chicago, Ill. Flexible power-transmitting couplings. 565,666, Oct. 21; Serial No. 619,944, published July 22, 1952. Class 23.

Lowe, Joe, Corporation, Brooklyn, to Joe Lowe Corporation, New York, N. Y. Blend of pure dehydrated egg yolk, selected proteins of milk, salts, etc. 298,793–4, renewed Nov. 8, 1952. O. G. Oct. 21. Class 46.

Lynch, Thos. H., near Fresno, by United Packing Co., Fresno, Calif. Fresh grapes. 86,418, May 7, 1912. Republished Oct. 21, 1952. Class 46.

Lyons, Henry W., doing business as Orga-Min Producing Company, Laredo, Tex. Soil conditioner. 565,748, Oct. 21; Serial No. 628,949, published July 29, 1952. Class 10.

Lyons, S. P., Co., Los Angeles, Calif. Concrete curing compound. 565,484, Oct. 21; Serial No. 587,338, published July 8, 1952. Class 6.

MacGregor, May, New York, N. Y. Grooved phonograph records. 565,561, Oct. 21; Serial No. 609,595, published June 17, 1952. Class 36.

MacLaren Sportswear Corp., New York, N. Y. Men's and boys' sportswear. 565,796, Oct. 21; Serial No. 611,135. Class 39.

Macy, R. H., & Co., Inc.: *See*—
Bamberger, L., & Co.

Mandee Fabrics, Inc., New York, N. Y. Textile fabrics, in the piece. 565,815, Oct. 21; Serial No. 618,641. Class 42.

Magnuson Products Corporation, Brooklyn, N. Y. Washing sodas. 298,185, renewed Oct. 18, 1952. O. G. Oct. 21. Class 52.

Manhattan Pickle Company, The, Chicago, Ill. Luncheon relish, horse radish, sliced pickles, etc. 565,451, Oct. 21; Serial No. 560,715, published July 29, 1952. Class 46.

Manley, Inc., Kansas City, Mo. Popcorn. 444,727, Oct. 21; Serial No. 516,204, published Jan. 16, 1951. Class 46.

Manley, Inc., Kansas City, Mo. Popped and buttered popcorn, and for salt. 565,461, Oct. 21; Serial No. 569,386, published July 10, 1951. Class 46.

Mansfield Hosiery Mills Limited, London, England. Ladies' stockings. 565,638, Oct. 21; Serial No. 617,373, published July 29, 1952. Class 39.

Markowitz, Wm. J., Los Angeles, Calif. Ladies' dresses. 565,648, Oct. 21; Serial No. 618,502, published July 29, 1952. Class 39.

Maryland Paper Box Company, Baltimore, Md. Cardboard and paper boxes, cases, trays, etc. 565,489, Oct. 21; Serial No. 589,664, published July 29, 1952. Class 2.

Mathieson Chemical Corporation, Baltimore, Md. Fertilizers and fertilizer compounds and materials. 565,745, Oct. 21; Serial No. 628,216, published July 29, 1952. Class 10.

McClure, Helen S., New York, N. Y. Cleaning pads. 565,555, Oct. 21; Serial No. 608,560, published Aug. 5, 1952. Class 29.

McCormick Mfg. Co. Limited, by McCormick's Limited, London, Ontario, Canada. Biscuits. 278,216, Dec. 9, 1930. Republished Oct. 21. Class 46.

McCormick's Limited: *See*—
McCormick Mfg. Co. Limited.

McDougall-Butler Co., Inc., Buffalo, N. Y. Paint enamels. 565,487, Oct. 21; Serial No. 588,502, published July 1, 1952. Class 16.

McLaren, L. M., to L. M. McLaren Produce, Inc., Yuma, Ariz. Fresh vegetables. 298,554, renewed Nov. 1, 1952. O. G. Oct. 21. Class 46.

McLaren, L. M., Produce, Inc.: *See*—
McLaren, L. M.

Metal-Glass Products Co., Belding, Mich. Metal tanks. 565,476, Oct. 21; Serial No. 582,235, published July 29, 1952. Class 2.

Midway Seed Company: *See*—
Lindig, Arthur A.

Millen, James, Manufacturing Company, Inc., Malden, Mass. Radio receivers, radio receiver accessories, etc. 565,794, Oct. 21; Serial No. 611,033. Class 21.

Miller, Charles N., to Charles N. Miller Co., Boston, Mass. Candy. 88,913, re-renewed Oct. 29, 1952. O. G. Oct. 21. Class 46.

Miller, Charles N., Co.: *See*—
Miller, Charles N.

Miller Chemical & Fertilizer Corporation, Baltimore, Md. Soluble fertilizer. 565,678, Oct. 21; Serial No. 620,813, published July 29, 1952. Class 10.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. High viscosity coating compound. 565,512, Oct. 21; Serial No. 597,284, published July 22, 1952. Class 16.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Transparent protective coating material. 565,675, Oct. 21; Serial No. 620,740, published July 29, 1952. Class 16.

Mitchell Manufacturing Company, Chicago, Ill. Air dehumidifying units. 565,509, Oct. 21, Serial No. 596,174, published June 24, 1952. Class 34.

Mitchell Manufacturing Company, Chicago, Ill. Louvre grilles. 565,510, Oct. 21; Serial No. 596,176, published July 1, 1952. Class 34.

Monogram Products Co.: *See*—
Eisentrager, Russell C.

Monsanto Chemical Company, St. Louis, Mo. Soil conditioning agents. 565,703, Oct. 21; Serial No. 622,447, published July 29, 1952. Class 10.

Morgan-Sabalol Products, Inc., New York, N. Y. Nose and throat medication. 298,623, renewed Nov. 1, 1952. O. G. Oct. 21. Class 18.

"Morten Milling Co.": *See*—
Burrus Mills, Incorporated.

Mosse, Incorporated, New York, N. Y. Sheets, pillow cases, blankets, etc. 565,770, Oct. 21; Serial No. 587,497. Class 42.

Mountain Varnish & Color Works, Inc., The, Toledo, Ohio, to E. I. du Pont de Nemours and Company, Wilmington, Del. Preparation in the form of a cream. 297,807, renewed Oct. 4, 1952. O. G. Oct. 21. Class 51.

Myers, R. A., & Company: *See*—
Jones, Sterling, Laboratories.

N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar," Weesp and Amsterdam, Netherlands. Colloidal solutions of natural vitamins in water for vitaminizing milk and other dairy products. 565,633, Oct. 21; Serial No. 617,052, published June 24, 1952. Class 18.

N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar," Weesp and Amsterdam, Netherlands. Vitamin preparations. 565,634, Oct. 21; Serial No. 617,054, published June 24, 1952. Class 18.

Naamloze Vennootschap Chemische Fabriek "Naarden," Naarden, Netherlands. Essential oils, synthetic odoriferous substances, etc. 565,663, Oct. 21; Serial No. 619,643, published July 22, 1952. Class 6.

Naphtol-Chemie Offenbach, Offenbach on the Main, Germany. Dyes, dyestuffs, organic pigments, etc. 565,556, Oct. 21; Serial No. 608,664, published July 1, 1952. Class 6.

Nash Inc., Jersey City, N. J. Bill folds, pocket books, purses, and wallets. 565,817, Oct. 21; Serial No. 621,327. Class 3.

National Automotive Fibres, Inc., Oakland, Calif., by merger with California Cotton Mills Company. Roofers' mops. 565,765, Oct. 21; Serial No. 564,760. Class 29.

National Distillers Products Corporation, assignee: *See*—
U. S. Industrial Chemicals, Inc.

National Licorice Company, Brooklyn, N. Y. Stick-licorice, licorice chewing-gum and licorice wafers. 88,935, re-renewed Oct. 29, 1952. O. G. Oct. 21. Class 46.

National Van Lines, Inc., Chicago, Ill. Transportation of goods by motor van. 565,760, Oct. 21; Serial No. 623,199, published July 22, 1952. Class 105.

Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. 565,629, Oct. 21; Serial No. 616,777, published July 29, 1952. Class 42.

Neldich Process Company, Burlington, N. J., to Underwood Corporation, New York, N. Y. Carbon paper and typewriter ribbons. 297,110–13, renewed Aug. 30, 1952. O. G. Oct. 21. Class 11.

Neiman-Marcus Company, Dallas, Tex. Perfumes, colognes, and scented dusting powders. 565,690, Oct. 21; Serial No. 621,679, published July 1, 1952. Class 51.

New Home Sewing Machine Company, The, Rockford, Ill. Sewing machines. 295,073, renewed June 14, 1952. O. G. Oct. 21. Class 23.

New York Association for the Blind, Inc., The, New York, N. Y. Floor mops. 565,544, Oct. 21; Serial No. 606,036, published Aug. 5, 1952. Class 29.

New York Blower Company, The, Chicago, Ill. Steam and hot water heating elements; exhaust fans, etc. 565,515, Oct. 21; Serial No. 598,200, published July 1, 1952. Class 34.

Norcon, Incorporated, Norwalk, Conn. Grooved phonograph records. 565,564, Oct. 21; Serial No. 609,942, published June 17, 1952. Class 36.

Norfolk Paint & Varnish Company, Quincy, Mass. Ready-mixed, paste, and dry paints, etc. 348,327, July 20, 1937. Canceled Sept. 16, 1952. O. G. Oct. 21. Class 16.

Northway Chemical Co., Inc., Geneva, N. Y. Inks, and thinners therefor. 565,687, Oct. 21; Serial No. 621,415, published July 1, 1952. Class 11.

Norwich Pharmacal Company, The, assignor to Eaton Laboratories, Inc., Norwich, N. Y. Cough syrup. 565,551, Oct. 21; Serial No. 607,392, published June 24, 1952. Class 18.

Nutrition Products, Inc., Cleveland, Ohio. Concentrated vitamin animal feed supplement. 565,475, Oct. 21; Serial No. 581,141, published June 24, 1952. Class 18.

Old Ben Coal Corporation, Chicago, Ill. Coal. 565,712, Oct. 21; Serial No. 623,064, published July 15, 1952. Class 1.

Ontario Knife Company, Franklinville, N. Y. Kitchen and table knives and forks, butcher knives, shoe knives, etc. 296,228, Aug. 2, 1932. Republished Oct. 21, 1952. Class 23.

Opotow Dental Manufacturing Corp., Brooklyn, N. Y. Liquid for cleaning dental impression pastes. 565,672, Oct. 21; Serial No. 620,523, published July 29, 1952. Class 52.

Oregon Worsted Company, Portland, Oreg. All-worsted whipcord fabrics. 565,659, Oct. 21; Serial No. 619,401, published July 29, 1952. Class 42.

Orga-Min Producing Company: *See*—
Lyons, Henry W.

Owens-Corning Fiberglas Corporation, Toledo, Ohio. Shipping cartons. 565,591, Oct. 21; Serial No. 612,757, published July 22, 1952. Class 2.

Pacific Gamble Robinson Co., Seattle, Wash. Fresh vegetables. 565,792, Oct. 21; Serial No. 610,019. Class 46.

Page Steel and Wire Company, Adrian, Mich., and Bridgeport, Conn., to American Chain & Cable Company, Inc., Bridgeport, Conn. Fence erecting tools. 292,494, renewed Mar. 15, 1952. O. G. Oct. 21. Class 23.

Pakistan Medicine Company: *See*—
Ullah, Azid.

Paramount Textile Machinery Co., Chicago, Ill. Women's hosiery. 565,593, Oct. 21; Serial No. 612,973, published July 29, 1952. Class 39.

Park Cement & Chemical Co.: *See*—
Bradstone Rubber Company.

Park Silk Co., Inc., New York, N. Y. Rayon crepe fabrics. 565,626, Oct. 21; Serial No. 616,677, published July 29, 1952. Class 42.

Parker-Bailey Manufacturing Company, Cromwell, Conn. Automatic stock feeder. 565,474, Oct. 21; Serial No. 579,052, published Jan. 16, 1951. Class 23.

Parker Rust Proof Company, Detroit, Mich. Liquid and solid inorganic acidic chemical substances. 565,594, Oct. 21; Serial No. 613,234, published Aug. 5, 1952. Class 6.

Parks, Virginia, Inc., Chicago, Ill. Deodorant in stick form. 565,598, Oct. 21; Serial No. 613,420, published July 1, 1952. Class 51.

Parma Water Lifter Co., Parma, Idaho. Fluid pumps, tractor-drawn farm implements. 565,636, Oct. 21; Serial No. 617,312, published July 22, 1952. Class 23.

Parry, T. R., & Company Limited, London, England. Oils and greases and lubricants. 565,539, Oct. 21; Serial No. 605,227, published June 3, 1952. Class 15.

Patek Brothers, Inc., Milwaukee, Wis. Interior and exterior paints, calcimines; paint and baking enamels, etc. 565,438, Oct. 21; Serial No. 530,677, published June 24, 1952. Class 16.

Patterson-Sargent Company, The, Cleveland, Ohio. Ready-mixed paints. 565,546, Oct. 21; Serial No. 606,896, published July 29, 1952. Class 16.

Pennsylvania Crusher Company, Philadelphia, Pa. Hammer-mills, hammer crushers, Bradford breakers, etc. 565,562, Oct. 21; Serial No. 609,602, published July 15, 1952. Class 23.

Penny Manufacturing Corp., Boston, Mass. Infants', children's and juvenile sportswear and underwear for boys, etc. 565,558, Oct. 21; Serial No. 609,259, published July 29, 1952. Class 39.

Pennzoil Company, The, Los Angeles, Calif. Lubricating oils and greases. 296,237, renewed Aug. 2, 1952. O. G. Oct. 21. Class 15.

Pettibone Mulliken Corporation, Chicago, Ill. Rock-breaking machines. 565,643, Oct. 21; Serial No. 617,929, published July 22, 1952. Class 23.

Platt Products Corporation, Lansing, Mich. Oil-fired water heaters. 565,583, Oct. 21; Serial No. 611,806, published June 24, 1952. Class 34.

Pioneer Suspender Company, Philadelphia, to Pioneer Suspender Company, Darby, Pa. Buckles. 299,417, renewed Dec. 6, 1952. O. G. Oct. 21. Class 40.

Pittsburgh Coke & Chemical Company, Pittsburgh, Pa. Paints and coating compositions. 565,590, Oct. 21; Serial No. 612,703, published July 29, 1952. Class 16.

Plasti-Kote Inc., Cleveland, Ohio. Ready mixed paints, paint enamels and varnishes. 565,437, Oct. 21; Serial No. 511,352, published July 29, 1952. Class 16.

Porto Rico Record and Manufacturing Co.: *See*—
Vela, Juan Martinez, Inc.

Preco Incorporated, Los Angeles, Calif. Back rip scarifiers. 565,567, Oct. 21; Serial No. 610,228, published June 24, 1952. Class 23.

Previews Incorporated, New York, N. Y. Promoting and managing the sale of real estate. 565,757, Oct. 21; Serial No. 620,930, published July 22, 1952. Class 102.

Procter & Gamble Company, The, Cincinnati, Ohio. Sudsing cleaner, cleanser and detergent. 565,552, Oct. 21; Serial No. 607,681, published July 29, 1952. Class 52.

Prom Record Co., Newark, N. J. Mechanically grooved phonograph records. 565,743, Oct. 21; Serial No. 626,747, published July 15, 1952. Class 36.

Purdy, N. B., Products Inc., Milwaukee, Wis. Soaps and detergents; all-purpose liquid and powdered cleaners; car wash, etc. 565,611, Oct. 21; Serial No. 614,716, published July 15, 1952. Class 52.

Quaker Lace Company, Philadelphia, Pa. Lace piece goods. 87,800, re-renewed Aug. 6, 1952. O. G. Oct. 21. Class 42.

Quaker Lace Company, Philadelphia, Pa. Lace curtains. 87,801, re-renewed Aug. 6, 1952. O. G. Oct. 21. Class 42.

Quaker Oats Company, The, Chicago, Ill. Sweetened puffed wheat. 565,797–8, Oct. 21; Serial Nos. 611,196–7. Class 46.

Quick Change Carriers, Inc., Lansdale, Pa. Hosiery machine thread carriers. 565,524, Oct. 21; Serial No. 602,065, published July 22, 1952. Class 23.

Ransburg, Harper J., Co., Inc., Indianapolis, Ind. Metal ware. 565,550, Oct. 21; Serial No. 607,235, published July 22, 1952. Class 13.

Ravasi, Giuseppe, Como, Italy. Fabrics. 565,682, Oct. 21; Serial No. 621,030, published Aug. 5, 1952. Class 42.

Reed Roller Bit Company, Houston, Tex. Deep well earth core drilling bits and core-taking equipment. 565,443, Oct. 21; Serial No. 546,426, published June 10, 1952. Class 23.

Reinhardt, Paul L., Burlington, Wis. Fur pelts. 565,713, Oct. 21; Serial No. 623,080, published July 15, 1952. Class 1.

Remle: *See*—
Beechler, Elmer.

Republic Paint & Varnish Co., Chicago, Ill. Asphalt base paint. 565,439, Oct. 21; Serial No. 540,886, published July 22, 1952. Class 16.

Republic Paint & Varnish Co., Chicago, Ill. Roof coatings and primer. 565,440, Oct. 21; Serial No. 540,895, published July 1, 1952. Class 16.

Research Laboratories Center, Inc., New York, N. Y. Therapeutic product. 565,572, Oct. 21; Serial No. 610,585, published June 24, 1952. Class 18.

Reynolds & Reynolds Company, The, Dayton, Ohio. Blue pencil carbon paper. 565,695, Oct. 21; Serial No. 621,904, published July 1, 1952. Class 11.

Rice Growers Association of California, Sacramento, Calif. Rice. 565,585, Oct. 21; Serial No. 612,034, published July 29, 1952. Class 46.

Riddell Products Limited, London, England. Asthma inhalant. 565,488, Oct. 21; Serial No. 588,810, published June 24, 1952. Class 18.

Ritch & Co.: *See*—
Ritch, George L.

Ritch, George L., doing business as Ritch & Co., Harrisonville, Mo. Wind deflecting shields. 565,783, Oct. 21; Serial No. 597,910. Class 19.

Rivoli Hosiery Company, Inc., New York, N. Y. Ladies' hosiery. 565,725, Oct. 21; Serial No. 623,528, published July 29, 1952. Class 39.

Robinson Manufacturing Company, to Robinson Plywood and Timber Company, Everett, Wash. Sheets of wood veneer. 296,705, renewed Aug. 16, 1952. O. G. Oct. 21. Class 12.

Robinson Plywood and Timber Company: *See*—
Robinson Manufacturing Company.

Roerig, J. B., and Company, Chicago, Ill. Medicinal preparation. 565,478, Oct. 21; Serial No. 584,349, published Aug. 5, 1952. Class 18.

Rose-Martin, Inc., New York, N. Y. Advertising agency services. 565,750, Oct. 21; Serial No. 578,224, published July 29, 1952. Class 101.

Roth, Otto, Inc., Newark, N. J., to Colton Razor Blade Company, Boston, Mass. Safety razor blades. 297,476, renewed Sept. 13, 1952. O. G. Oct. 21. Class 23.

Roth, Otto, Inc., Newark, N. J., to Colton Razor Blade Company, Boston, Mass. Safety razor blades. 297,755, renewed Sept. 27, 1952. O. G. Oct. 21. Class 23.

Ryolin Fur Division Inc., Seattle, Wash. Compound for treating furred animal pelts. 565,698, Oct. 21; Serial No. 622,277, published July 15, 1952. Class 52.

Safeway Stores, Incorporated, Oakland, Calif. Vegetable shortening. 565,718, Oct. 21; Serial No. 623,286, published July 29, 1952. Class 46.

Sahadi, A., and Co., Inc., New York, N. Y. Fruit and nut candy. 565,780, Oct. 21; Serial No. 595,283. Class 46.

Sahlein, J. M., San Francisco, Calif., trading as J. M. Sahlein Music Company. Stringed and fretted instruments, woodwind musical instruments, etc. 565,456, Oct. 21; Serial No. 562,961, published July 29, 1952. Class 36.

Sahlein, J. M., Music Company: *See*—
Sahlein, J. M.

Salem Nut Growers Cooperative, Salem, Oreg. Unshelled nuts. 565,790, Oct. 21; Serial No. 607,266. Class 46.

Sales Affiliates, Inc.: *See*—
Zotos, Inc.

Salganik, Louis, & Sons, Baltimore, Md. Fresh commercial cuts of beef, veal, lamb, etc. 565,795, Oct. 21; Serial No. 611,043. Class 46.

Sapphire Corporation, New York, N. Y. Women's hosiery. 565,711, Oct. 21; Serial No. 622,849, published July 29, 1952. Class 39.

Sausage Industry Suppliers: *See*—
Gerst, Arthur J.

Sausage Industry Supplies: *See*—
Gerst, Arthur J.

Savada Bros., Inc., New York, N. Y. Infants', boys', and youths' shorts, dress shirts, etc. 565,771, Oct. 21; Serial No. 587,824. Class 39.

Schenley Laboratories, Inc., New York, N. Y. Penicillin vaginal suppositories. 565,460, Oct. 21; Serial No. 568,453, published Feb. 28, 1950. Class 18.

Scherer, R. P., Corporation, Detroit, Mich. Capsulated vitamin preparations, capsulated drugs and medicinal preparations, etc. 565,508, Oct. 21; Serial No. 595,986, published June 24, 1952. Class 18.

Schering Corporation, Bloomfield, N. J. Combination of pure crystalline hormones. 565,579, Oct. 21; Serial No. 611,372, published June 24, 1952. Class 18.

Scherl & Roth, Inc., Cleveland, Ohio. Violas, cellos, and string basses. 565,739, Oct. 21; Serial No. 626,703, published July 15, 1952. Class 36.

Scherl & Roth, Inc., Cleveland, Ohio. Violins, violas, cellos, string basses, and bows. 565,740, Oct. 21; Serial No. 626,704, published July 15, 1952. Class 36.

Scherl & Roth, Inc., Cleveland, Ohio. Violas, cellos, basses, and bows. 565,741, Oct. 21; Serial No. 626,706, published July 15, 1952. Class 36.

Scherl & Roth, Inc., Cleveland, Ohio. Violins, violas, cellos, and string basses. 565,742, Oct. 21; Serial No. 626,707, published July 15, 1952. Class 36.

Scott, C. U., & Son, Inc., Rock Island, Ill. Performing a hardening process on steel products. 565,758–9, Oct. 21; Serial Nos. 622,460–1, published July 29, 1952. Class 106.

Scott, O. M., & Sons Company, Marysville, Ohio. Grass seed. 565,714, Oct. 21; Serial No. 623,161, published July 15, 1952. Class 1.

Sears, Roebuck and Co., Chicago, Ill. Floor and porch enamel, 4-hour enamel, barn paint, etc. 565,444, Oct. 21; Serial No. 549,013, published July 1, 1952. Class 4.

Sears, Roebuck and Co., Chicago, Ill. Furnaces, damper regulators, hot water heaters, etc. 565,445, Oct. 21; Serial No. 550,451, published Aug. 15, 1950. Class 34.

Sears, Roebuck and Co., Chicago, Ill. Tool boxes, tool chests, oil cans, etc. 565,462, Oct. 21; Serial No. 570,647, published July 29, 1952. Class 2.

Security Fire Door Company, St. Louis, Mo. Electromagnetic freight elevator door operators and freight elevator doors equipped with such operators. 565,799, Oct. 21; Serial No. 611,743. Class 21.

Seinsheimer, H. A., Company, The, Cincinnati, Ohio. Men's and boys' suits, overcoats, topcoats, etc. 565,793, Oct. 21; Serial No. 610,103. Class 39.

Selig Company, Inc., The, Atlanta, Ga. Wick-type deodorant. 565,744, Oct. 21; Serial No. 627,013, published Aug. 5, 1952. Class 6.

Selig Company, The, Atlanta, Ga. Liquid wax. 298,062, renewed Oct. 11, 1952. O. G. Oct. 21. Class 4.

Service Industries (a trust), Philadelphia, Pa. Waterproof coating. 565,541, Oct. 21; Serial No. 605,374, published July 29, 1952. Class 16.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Rectal suppository. 565,557, Oct. 21; Serial No. 609,207, published June 24, 1952. Class 18.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, liquid paste and semi-paste aluminum paste and aluminum paints. 565,820, Oct. 21; Serial No. 624,244. Class 16.

Shinderman Management Corporation, Chicago, Ill. Managing resort hotels and the like. 565,752, Oct. 21; Serial No. 590,185, published July 29, 1952. Class 101.

Signal Oil Company: *See*—
Signal Oil & Gas Company.

Signal Oil & Gas Company, to Standard Oil Company of California, doing business as Signal Oil Company, Los Angeles, Calif. Gasoline. 294,435, renewed May 24, 1952. O. G. Oct. 21. Class 15.

Silveira & O'Connell, Sebastopol, Calif. Canned apple sauce. 565,769, Oct. 21; Serial No. 581,297. Class 46.

Sinclair Refining Company, New York, N. Y. Oils used for or as an ingredient in mixtures or compounds for paints. 565,446, Oct. 21; Serial No. 551,322, published July 29, 1952. Class 16.

Smith, Chester W., doing business under the name and style of Whitfield Chemical Company, Detroit, Mich. Cleaning agent. 565,523, Oct. 21; Serial No. 601,479, published July 29, 1952. Class 52.

Smith-Dorsey Company, The, Lincoln, Nebr. Antispasmodic and cardiovascular preparation. 565,497, Oct. 21; Serial No. 592,445, published July 15, 1952. Class 18.

Société Anonyme: Societe Gallia, Paris, France. Apparatus for permanent waving of the hair. 565,506, Oct. 21; Serial No. 595,685, published July 29, 1952. Class 44.

Societe Rhodiaceta, Paris, France. Threads and yarns. 565,615, Oct. 21; Serial No. 615,612, published July 29, 1952. Class 43.

Solo-Horton Brush Company, Incorporated, New York, N. Y. Brushes. 565,477, Oct. 21; Serial No. 583,413, published July 1, 1952. Class 29.

Southern Music Company, San Antonio, Tex. Accordions. 565,628, Oct. 21; Serial No. 616,736, published July 15, 1952. Class 36.

Spear, Winifred, New York, N. Y. Cape-like cover garment. 565,788, Oct. 21; Serial No. 604,041. Class 39.

Squibb, E. R., & Sons, New York, N. Y. Antibacterial preparation. 565,570, Oct. 21; Serial No. 610,387, published June 24, 1952. Class 18.

Staley, A. E., Manufacturing Company, Decatur, Ill. Vegetable derivative adhesive. 565,568, Oct. 21; Serial No. 610,235, published July 29, 1952. Class 5.

Standard Knitting Mills, Inc., Knoxville, Tenn. Men's, boys', and children's underwear, infants' and children's sleepers, etc. 565,603, Oct. 21; Serial No. 613,782, published July 29, 1952. Class 39.

Standard Manifold Company, Chicago, Ill. Rolls of carbon paper. 565,702, Oct. 21; Serial No. 622,417, published July 22, 1952. Class 11.

Standard Milling Company, Chicago, Ill. Mixed feed. 565,441, Oct. 21; Serial No. 545,785, published July 29, 1952. Class 46.

Standard Oil Company, Chicago, Ill. Lubricating oil. 565,674, Oct. 21; Serial No. 620,698, published June 17, 1952. Class 15.

Standard Oil Company of California: *See*—
Signal Oil & Gas Company.

Standard & Poor's Corporation: *See*—
Standard Statistics Company, Inc., The.

Standard Statistics Company, Inc., The, to Standard & Poor's Corporation, New York, N. Y. Publications. 298,507, renewed Oct. 25, 1952. O. G. Oct. 21. Class 38.

Stanley Home Products, Inc., Westfield, Mass. Medicinal mouth washes, medicinal foot lotions, germicides, etc. 565,514, Oct. 21; Serial No. 597,791, published July 15, 1952. Class 18.

Steam Waving Corporation: *See*—
Zotos, Inc.

Stewart-Glapat Corporation, Zanesville, Ohio. Mobile straight line mechanical conveyors. 565,654, Oct. 21; Serial No. 619,150, published June 17, 1952. Class 23.

Sticht, Herman H., Company, Inc., New York, N. Y. Instruments for measuring electrical resistances. 444,724, Oct. 21; Serial No. 488,673, published June 3, 1952. Class 26.

Storm Industries, Inc., Dassel, Minn. Multiple hen nests. 565,696, Oct. 21; Serial No. 621,915, published July 29, 1952. Class 50.

Streeen-Reuter, Fred'k A., Inc., Chicago, Ill. Paint colors. 565,724, Oct. 21; Serial No. 623,485, published July 29, 1952. Class 16.

Stuart Company, The, Pasadena, Calif. Carboxy methyl cellulose. 565,522, Oct. 21; Serial No. 599,989, published June 24, 1952. Class 18.

Sucrest Corporation, to American Molasses Company, New York, N. Y. Sugar and confectionery syrup. 297,908, renewed Oct. 4, 1952. O. G. Oct. 21. Class 46.

Sultana Hosiery Company: *See*—
Sultanan Hosiery Mills, Inc.

Sultana Hosiery Mills, Inc., to Sultana Hosiery Company, New York, N. Y. Hosiery and lingerie. 298,432, renewed Oct. 25, 1952. O. G. Oct. 21. Class 39.

Summit Mills Corporation, New York, N. Y. Men's and boys' shirts. 565,777, Oct. 21; Serial No. 594,293. Class 39.

Switzer Brothers, Inc., Cleveland, Ohio. Dyeing of textiles. 565,753, Oct. 21; Serial No. 603,317, published July 29, 1952. Class 106.

Talveron Co., Brooklyn, N. Y. Pneumo-tussive expectorant and phenoxscorbian compound. 565,660, Oct. 21; Serial No. 619,411, published Aug. 5, 1952. Class 18.

Tanz, Eugene R., doing bsuiness as Cox and Tanz, and as United Program Service, Philadelphia, Pa. Advertising the goods and services of others. 565,755, Oct. 21; Serial No. 606,737, published July 29, 1952. Class 101.

Texas Farm Products Company, Nacogdoches, Tex. Stock feed, chicken feed, and dairy feed. 295,169, renewed June 21, 1952. O. G. Oct. 21. Class 46.

Thomas, Thelma H., doing business as Vane Thomas, St. Louis, Mo. Fried chicken. 565,772, Oct. 21; Serial No. 588,715. Class 46.

Thomas, Vane: *See*—
Thomas, Thelma H.

Timken-Detroit Axle Company, The, Detroit, Mich. Differential gearing. 298,710, renewed Nov. 1, 1952. O. G. Oct. 21. Class 23.

Tirrill Gas Machine Corporation, Dover, Del., and Netcong, N. J. Gas making machines. 565,496, Oct. 21; Serial No. 592,008, published July 8, 1952. Class 34.

Toni Lee, Ltd., New York, N. Y. Ladies' brassière top slips, brassière top bathing suits, and dresses. 565,504, Oct. 21; Serial No. 595,546, published July 29, 1952. Class 39.

Topton Rug Manufacturing Co., Mertztown, Pa. Hand-loomed cotton rugs. 565,587, Oct. 21; Serial No. 612,285, published July 29, 1952. Class 42.

Trendex Company, The, Memphis, Tenn. Saturated and hard fatty acids. 565,596, Oct. 21; Serial No. 613,314, published July 29, 1952. Class 6.

Ullah, Azid, doing business as Pakistan Medicine Company, Gary, Ind. Medicinal preparations. 565,679, Oct. 21; Serial No. 620,832, published June 24, 1952. Class 18.

Underwood Corporation: *See*—
Neidich Process Company.
Underwood Elliott Fisher Company.

Underwood Elliott Fisher Company, to Underwood Corporation, New York, N. Y. Typewriter ink-ribbons and coated transfer-sheets. 296,792, renewed Aug. 23, 1952. O. G. Oct. 21. Class 11.

Union Electric Company of Missouri, St. Louis, Mo. Electric power distribution services. 565,751, Oct. 21; Serial No. 585,463, published July 22, 1952. Class 100.

Union Engineering, Inc., Los Angeles, Calif. Wood protection composition. 565,513, Oct. 21; Serial No. 597,555, published July 29, 1952. Class 16.

Union Oil Company of California, Los Angeles, Calif. Cleaning solvent. 565,691, Oct. 21; Serial No. 621,738, published July 15, 1952. Class 52.

United Packing Co.: *See*—
Lynch, Thos. H.
United Packing Company.

United Packing Company, By United Packing Co., Fresno, Calif. Fresh grapes, fresh deciduous fruits, fresh citrus fruits, etc. 297,711. Sept. 27, 1932. Republished Oct. 21. Class 46.

United Program Service: *See*—
Tanz, Eugene R.

U. S. Industrial Chemicals, Inc., assignor to National Distillers Products Corporation, New York, N. Y. Resin solutions used as surface coatings. 565,537, Oct. 21; Serial No. 605,181, published July 29, 1952. Class 16.

United States Paste Company, Philadelphia, Pa. Wall paper paste and liquid and dry size for paste. 565,789, Oct. 21; Serial No. 604,671. Class 5.

United States Steel Company, Pittsburgh, Pa. Nails and dowel pins. 565,730, Oct. 21; Serial No. 624,510, published July 22, 1952. Class 13.

Universal Paint & Varnish Company, Huntington Park, Calif. Ready-mixed chrome finish aluminum paint. 565,492, Oct. 21; Serial No. 590,628, published July 1, 1952. Class 16.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 565,641, Oct. 21; Serial No. 617,826, published June 24, 1952. Class 18.

V-Line Clothes Company, Philadelphia, Pa. Men's clothing. 565,802, Oct. 21; Serial No. 613,032. Class 39.

Vale Chemical Company, Inc., The, Allentown, Pa. Capsule and liquid preparation. 565,530, Oct. 21; Serial No. 604,113, published June 24, 1952. Class 18.

Van Dyk, James, Co., Inc.: *See*—
Van Dyk, James, Company.

Van Dyke, James, Company, New York, to James Van Dyk Co., Inc., Brooklyn, N. Y. Coffee. 88,434, renewed Sept. 17, 1952. O. G. Oct. 21. Class 46.

Vela, Juan Martinez, Inc., doing business as Porto Rico Record and Manufacturing Co., San Juan, P. R. Grooved phonograph records. 565,553, Oct. 21; Serial No. 608,093, published July 15, 1952. Class 36.

Venice Maid Co., Inc.: *See*—
Venice Maid Company.

Venice Maid Company, to Venice Maid Co., Inc., Vineland, N. J. Spaghetti sauce. 299,084, renewed Nov. 22, 1952. O. G. Oct. 21. Class 46.

Vineland Laboratories, Inc., Landis Township, Cumberland County, N. J. Rodenticides. 565,737, Oct. 21; Serial No. 626,355, published July 15, 1952. Class 6.

Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 565,807, Oct. 21; Serial No. 615,507. Class 10.

Visionade Visor Co., Inc., Brooklyn, N. Y. Flexible transparent visors, for automobile windshields. 565,818, Oct. 21; Serial No. 622,047. Class 19.

Vogue Manufacturing Corp., West Chester, Pa. Ladies' hosiery. 565,726, Oct. 21; Serial No. 623,625, published July 29, 1952. Class 39.

Von Tuerk, Elvira, Greenwood Lake, N. Y. Chocolate covered ice cream confection. 565,676, Oct. 21; Serial No. 620,757, published July 29, 1952. Class 46.

Waldes Kohinoor, Inc., Long Island City, N. Y. Slide fasteners. 297,996, renewed Oct. 11, 1952. O. G. Oct. 21. Class 13.

Warnes, Burton D., Buzzards Bay, Cape Cod, assignor to Drink A Banana, Inc., Boston, Mass. Milk drinks. 565,787, Oct. 21; Serial No. 601,006. Class 46.

Washington Steel Products, Inc., Tacoma, Wash. Cabinet hardware. 565,618–20, Oct. 21; Serial Nos. 615,957–9, published July 29, 1952. Class 13.

Waters, James F., New York, N. Y. Metal cooking utensils. 565,699, Oct. 21; Serial No. 622,369, published July 22, 1952. Class 13.

Web Jewelry Manufacturing Company: *See*—
Weidlich, Frederick E.

Weidlich, Frederick E., White Plains, N. Y., assignor to W. E. Bass, and S. Hoffman, Philadelphia, Pa., trading as Web Jewelry Manufacturing Company. Silverware. 565,576, Oct. 21; Serial No. 611,115, published July 8, 1952. Class 28.

Welmaid Hosiery Co.: *See*—
Aust, Harry.

Wenzel, H., Tent & Duck Co., St. Louis, Mo. Fire resistant fabrics. 565,605, Oct. 21; Serial No. 613,858, published July 29, 1952. Class 42.

West Disinfecting Company, Long Island City, N. Y. Germicidal detergent, cleaner and disinfectant. 565,573, Oct. 21; Serial No. 610,770, published July 15, 1952. Class 52.

Western Fishing Line Co.: *See*—
Western Lace and Line Company.

Western Lace and Line Company, also doing business as Western Fishing Line Co., Glendale, Calif. Fishing line. 565,808, Oct. 21; Serial No. 615,592. Class 22.

Weston, Byron, Company, Dalton, Mass. Writing paper. 86,276, Apr. 30, 1912. Republished Oct. 21. Class 37.

Whitfield Chemical Company: *See*—
Smith, Chester W.

Whittet, Harold E., South St. Paul, Minn. Grooved phonograph records. 565,511, Oct. 21; Serial No. 596,636, published Jan. 1, 1952. Class 36.

Wickes Corporation, The, Saginaw, Mich. Prepared pulverized material containing graphite. 565,715, Oct. 21; Serial No. 623,223, published July 15, 1952. Class 1.

Wilcox-Gay Corporation, Charlotte, Mich. Phonograph records. 565,449, Oct. 21; Serial No. 552,528, published July 29, 1952. Class 36.

Will & Baumer Candle Co., Inc., Syracuse, N. Y. Candles. 294,937, renewed June 14, 1952. O. G. Oct. 21. Class 15.

Williams, Clark G., West Palm Beach, Fla. Wooden and metal prefabricated buildings. 525,545, May 23, 1950. Canceled Sept. 2, 1952. O. G. Oct. 21. Class 12.

Williams, Dr., Medicine Company, The, Schenectady, N. Y. Laxative medicine. 39,018, re-renewed Oct. 14, 1952. O. G. Oct. 21. Class 18.

Williams, J. H., & Co., New York, to J. H. Williams & Co., Buffalo, N. Y. C-clamps, strap-clamps, lathe-dogs, etc. 88,987, re-renewed Oct. 29, 1952. O. G. Oct. 21. Class 23.

Wilson Organic Chemicals, Inc. Sayreville, N. J. Soil conditioning agent. 565,746, Oct. 21; Serial No. 628,729, published July 29, 1952. Class 10.

Witco Chemical Company, Chicago, Ill. Drier designed for use in paints. 565,637, Oct. 21; Serial No. 617,329, published July 1, 1952. Class 16.

Wolf, Hymie, doing business as Wolf Recording Co., San Antonio, Tex. Grooved phonograph records. 565,469, Oct. 21; Serial No. 577,837, published July 15, 1952. Class 36.

Wolf Recording Co.: *See*—
Wolf, Hymie.

Wolfe & Lang, Inc., New York, N. Y. Women's undergarments and foundation garments. 565,612, Oct. 21; Serial No. 614,735, published July 29, 1952. Class 39.

Woolworth, F. W., Co., New York, N. Y. Floor and linoleum varnish, spar varnish, exterior house paint, etc. 565,534, Oct. 21; Serial No. 605,000, published June 24, 1952. Class 16.

Woolworth, F. W., Co., New York, N. Y. Floor and linoleum varnish, spar varnish, exterior house paint, etc. 565,535, Oct. 21; Serial No. 605,001, published July 1, 1952. Class 16.

Wright Sales Company, Inc., Cleveland, Ohio. Metal and wood paints, paint enamels, lacquers, etc. 565,450, Oct. 21; Serial No. 553,939, published July 1, 1952. Class 16.

Wunder Chemical Company, New York, N. Y. Chemical specialty compound for addition to printers' inks. 565,485–6, Oct. 21; Serial Nos. 587,777–8, published July 1, 1952. Class 11.

Wyeth Incorporated, Philadelphia, Pa. Antispasmodic. 565,677, Oct. 21; Serial No. 620,764, published June 17, 1952. Class 18.

Yarnall Paint Company, Philadelphia, Pa. General line of paints and paint products. 565,517, Oct. 21; Serial No. 599,055, published July 1, 1952. Class 16.

Zotos Corporation, assignee: *See*—
Zotos, Inc.

Zotos, Inc., now by change of name Steam Waving Corporation, assignor to Zotos Corporation, to Sales Affiliates, Inc., New York, N. Y. Hair waving pads. 295,481, renewed July 5, 1952. O. G. Oct. 21. Class 44.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Old Ben Coal Corporation. 565,712, Oct., 21; Serial No. 623,064, published July 15, 1952.

Fur pelts. P. L. Reinhardt. 565,713, Oct. 21; Serial No. 623,080, published July 15, 1952.

Petroleum pitch. Anderson-Prichard Oil Corporation. 565,704, Oct. 21; Serial No. 622,476, published July 15, 1952.

Prepared pulverized material containing graphite. The Wickes Corporation. 565,715, Oct. 21; Serial No. 623,223, published July 15, 1952.

Seed, Grass. O. M. Scott & Sons Company. 565,714, Oct. 21; Serial No. 623,161, published July 15, 1952.

Seeds, Farm or field. A. H. Hoffman, Inc. 565,655, Oct. 21; Serial No. 619,162, published July 15, 1952.

CLASS 2

Bags. American Bag & Paper Corporation. 565,543, Oct. 21; Serial No. 605,706, published July 29, 1952.

Bags, Coated fabric. Bemis Bro. Bag Company. 565,640, Oct. 21; Serial No. 617,646, published Feb. 12, 1952. (Consolidated certificate, Classes 2 and 42.)

Boxes, cases, trays, etc., Cardboard and paper. Maryland Paper Box Company. 565,489, Oct. 21; Serial No. 589,664, published July 29, 1952.

Cartons, Folding. Container Corporation of America. 565,800, Oct. 21; Serial No. 611,943.

Cartons, Shipping. Owens-Corning Fiberglas Corporation. 565,591, Oct. 21; Serial No. 612,757, published July 22, 1952.

Dishes, trays and empty jewelry boxes. Ivorex Plastics. 565,457, Oct. 21; Serial No. 564,200, published July 29, 1952.

Hamper cabinets, Laundry. Bath Maid, Inc. 565,684, Oct. 21; Serial No. 621,128, published July 29, 1952.

Hampers, Clothes. Gleitsman's, Inc. 565,472, Oct. 21; Serial No. 578,686, published July 29, 1952.

Tanks, Metal. Metal-Glass Products Co. 565,476, Oct. 21; Serial No. 582,235, published July 29, 1952.

Tool boxes, tool chests, oil cans, etc. Sears, Roebuck and Co. 565,462, Oct. 21; Serial No. 570,647, published July 29, 1952.

CLASS 3

Bill folds, pocket books, purses, and wallets. Nash Inc. 565,817, Oct. 21; Serial No. 621,327.

Wallets, Men's. Anson Incorporated. 565,778, Oct. 21; Serial No. 594,682.

CLASS 4

Floor and porch enamel, 4-hour enamel, barn paint, etc. Sears, Roebuck and Co. 565,444, Oct. 21; Serial No. 549,013, published July 1, 1952.

Polishes, Floor, woodwork and furniture. The Gerson-Stewart Corporation. 295,062, renewed June 14, 1952. O. G. Oct. 21.

Wax, Liquid. The Selig Company. 298,062, renewed Oct. 11, 1952. O. G. Oct. 21.

Wax, Powdered, flaked, and paste, and self-polishing liquid wax. Sterling Jones Laboratories. 565,455, Oct. 21; Serial No. 562,641, published June 24, 1952.

Wax, Self-polishing liquid. Hillyard Chemical Company. 565,458, Oct. 21; Serial No. 565,053, published June 24, 1952.

CLASS 5

Adhesive quick-drying cement compound, Liquid. Bradstone Rubber Company. 565,649, Oct. 21; Serial No. 618,727, published July 29, 1952.

Adhesive, Vegetable derivative. A. E. Staley Manufacturing Company. 565,568, Oct. 21; Serial No. 610,235, published July 29, 1952.

Adhesives, Phenolic type resin. Koppers Company, Inc. 565,647, Oct. 21; Serial No. 618,499, published July 29, 1952.

Lacquer type of adhesive cement. The F. G. Findley Company. 565,650, Oct. 21; Serial No. 618,736, published July 29, 1952.

Paste, Wall paper, and liquid and dry size for paste. United States Paste Company. 565,789, Oct. 21; Serial No. 604,671.

Plastic tape, Transparent. Kay-Cee Industrial Products. 565,701, Oct. 21; Serial No. 622,391, published July 29, 1952.

CLASS 6

Aromatic amines, alkyl aminophenols, alkylated phenols, etc. Eastman Kodak Company. 565,727, Oct. 21; Serial No. 623,753, published Aug. 5, 1952.

Chemical compounds, Various. R. O. Hull & Company, Inc. 565,738, Oct. 21; Serial No. 626,370, published July 15, 1952.

Composition for duplicating processes. Ditto, Incorporated. 565,604, Oct. 21; Serial No. 613,805, published Aug. 5, 1952.

Concrete curing compound. S. P. Lyons Co. 565,484, Oct. 21; Serial No. 587,338, published July 8, 1952.

Dyes, dyestuffs, organic pigments, etc. Naphtol-Chemie Offenbach. 565,556, Oct. 21; Serial No. 608,664, published July 1, 1952.

Essential oils, synthetic odoriferous substances, etc. Naamloze Vennootschap Chemische Fabriek "Naarden." 565,663, Oct. 21; Serial No. 619,643, published July 22, 1952.

Insecticides. Bridgeport Brass Company. 444,725, Oct. 21; Serial No. 501,494, published July 15, 1952.

Liquid and solid inorganic acidic chemical substances. Parker Rust Proof Company. 565,594; Oct. 21; Serial No. 613,234, published Aug. 5, 1952.

Rodenticides. Vineland Laboratories, Inc. 565,737, Oct. 21; Serial No. 626,355, published July 15, 1952.

Saturated and hard fatty acids. The Trendex Company. 565,596, Oct. 21; Serial No. 613,314, published July 29, 1952.

Seed dressing and fungicide. British Schering Limited. 565,719, Oct. 21; Serial No. 623,333, published Aug. 5, 1952.

Wick-type deodorant. The Selig Company, Inc. 565,744, Oct. 21; Serial No. 627,013, published Aug. 5, 1952.

CLASS 9

Firecrackers and fireworks. Balfour, Guthrie & Co., Limited. 298,800, renewed Nov. 8, 1952. O. G. Oct. 21.

Pistols. Colt's Patent Fire Arms Manufacturing Co. 295,029, renewed June 14, 1952. O. G. Oct. 21.

CLASS 10

Fertilizer, potting soil plant food, etc. A. A. Lindig. 565,669, Oct. 21; Serial No. 620,006, published July 29, 1952.

Fertilizer, Soluble. Miller Chemical & Fertilizer Corporation. 565,678, Oct. 21; Serial No. 620,813, published July 29, 1952.

Fertilizers. Virginia-Carolina Chemical Corporation. 565,807, Oct. 21; Serial No. 615,507.

Fertilizers and fertilizer compounds and materials. Mathieson Chemical Corporation. 565,745, Oct. 21; Serial No. 628,216, published July 29, 1952.

Fertilizers, Plant. Excell Laboratories, Inc. 565,747, Oct. 21; Serial No. 628,750, published July 29, 1952.

Soil conditioner. H. W. Lyons. 565,748, Oct. 21; Serial No. 628,949, published July 29, 1952.

Soil conditioning agent. Wilson Organic Chemicals, Inc. 565,746, Oct. 21; Serial No. 628,729, published July 29, 1952.

Soil conditioning agents. Monsanto Chemical Company. 565,703, Oct. 21; Serial No. 622,447, published July 29, 1952.

CLASS 11

Carbon paper and typewriter ribbons. American Carbon Paper Mfg. Company. 565,580, Oct. 21; Serial No. 611,397, published June 24, 1952.

Carbon paper and typewriter ribbons. Neidich Process Company. 297,110–13, renewed Aug. 30, 1952. O. G. Oct. 21.

Carbon paper, Blue pencil. The Reynolds & Reynolds Company. 565,695, Oct. 21; Serial No. 621,904, published July 1, 1952.

Carbon paper, Rolls of. Standard Manifold Company. 565,702, Oct. 21; Serial No. 622,417, published July 22, 1952.

Chemical specialty compound for addition to printers' inks. Wunder Chemical Company. 565,485–6, Oct. 21; Serial Nos. 587,777–8, published July 1, 1952.

Ink-ribbons, Typewriter, and coated transfer-sheets. Underwood Elliott Fisher Company. 296,792, renewed Aug. 23, 1952. O. G. Oct. 21.

Inks, and thinners therefor. Northway Chemical Co., Inc. 565,687, Oct. 21; Serial No. 621,415, published July 1, 1952.

CLASS 12

Caulking material. P. J. Becker. 565,482, Oct. 21; Serial No. 586,390, published July 1, 1952.

Cements, Refractory. Johns - Manville Corporation. 295,784, renewed July 12, 1952. O. G. Oct. 21.

Ceramic wall and floor tile. Gladding, McBean & Co. 565,494, Oct. 21; Serial No. 591,569, published July 1, 1952.

Ferrous metal culverts and parts therefor. The American Rolling Mill Company. 503,740, Nov. 9, 1948. Canceled Aug. 25, 1952. O. G. Oct. 21.

Sheets of wood veneer. Robinson Manufacturing Company. 296,705, renewed Aug. 16, 1952. O. G. Oct. 21.

Wooden and metal prefabricated buildings. C. G. Williams. 525,545, May 23, 1950. Canceled Sept. 2, 1952. O. G. Oct. 21.

CLASS 13

Ball and socket type chains of any length and key chains. The Bead Chain Manufacturing Company. 565,566, Oct. 21; Serial No. 610,116, published July 29, 1952.

Bolts and screws. Gubelin International Corporation. 565,662, Oct. 21; Serial No. 619,619, published July 29, 1952.

Cabinet hardware. Washington Steel Products, Inc. 565,618–20, Oct. 21; Serial Nos. 615,957–9, published July 29, 1952.

Conduits. Carlon Products Corporation. 565,623, Oct. 21; Serial No. 616,159, published July 29, 1952.

Controlling mechanisms for automobile lifts. The Joyce-Cridland Co. 565,481, Oct. 21; Serial No. 585,940, published July 22, 1952.

Drapery hardware. The Eastern Venetian Blind Company. 565,665, Oct. 21; Serial No. 619,931, published July 29, 1952.

Drapery hardware. The Eastern Venetian Blind Company. 565,709, Oct. 21; Serial No. 622,584, published July 22, 1952.

Metal cooking utensils. J. F. Waters. 565,699, Oct. 21; Serial No. 622,369, published July 22, 1952.

Metal ware. Harper J. Ransburg Co., Inc. 565,550, Oct. 21; Serial No. 607,235, published July 22, 1952.

Nails and dowel pins. United States Steel Company. 565,730, Oct. 21; Serial No. 624,510, published July 22, 1952.

Slide fasteners. Waldes Kohinoor, Inc. 297,996, renewed Oct. 11, 1952. O. G. Oct. 21.

Towel bars, towel rings, shelves and brackets. Handy-Andy Specialty Co., Inc. 565,731, Oct. 21; Serial No. 625,473, published July 29, 1952.

Wire machine staples. Goldsmith Bros. 565,732, Oct. 21; Serial No. 625,591, published July 22, 1952.

Woven wire pieces utilized for the patching of fourdrinier wires. International Wire Works. 565,710, Oct. 21; Serial No. 622,828, published July 15, 1952.

CLASS 15

Candles. Will & Baumer Candle Co., Inc. 294,937, renewed June 14, 1952. O. G. Oct. 21.

Gasoline. Signal Oil & Gas Company. 294,435, renewed May 24, 1952. O. G. Oct. 21.

Oil, Lubricating. Standard Oil Company. 565,674, Oct. 21; Serial No. 620,698, published June 17, 1952.

Oils and greases and lubricants. T. R. Parry & Company Limited. 565,539, Oct. 21; Serial No. 605,227, published June 3, 1952.

Oils and greases, Lubricating. The Pennzoil Company. 296,257, renewed Aug. 2, 1952. O. G. Oct. 21.

CLASS 16

Coating compound, High viscosity. Minnesota Mining & Manufacturing Company. 565,512, Oct. 21; Serial No. 597,284, published July 22, 1952.

Drier designed for use in paints. Witco Chemical Company. 565,637, Oct. 21; Serial No. 617,329, published July 1, 1952.

Enamel coating. Atech, Inc. 565,608, Oct. 21; Serial No. 614,186, published July 1, 1952.

Enamels, Ready mixed industrial baking. Ferro Enamel Corporation. 565,532, Oct. 21; Serial No. 604,361, published July 29, 1952.

Oils used for or as an ingredient in mixtures or compounds for paint. Sinclair Refining Company. 565,446, Oct. 21; Serial No. 551,322, published July 29, 1952.

Paint and lubricant, Inside tire. Paul E. Hawkinson Company. 565,683, Oct. 21; Serial No. 621,062, published July 1, 1952.

Paint, Asphalt base. Republic Paint & Varnish Co. 565,439, Oct. 21; Serial No. 540,886, published July 22, 1952.

Paint colors. Fred'k A. Stresen-Reuter, Inc. 565,724, Oct. 21; Serial No. 623,485, published July 29, 1952.

Paint colors, Tempera show card. Binney & Smith Company. 565,519, Oct. 21; Serial No. 599,149, published July 1, 1952.

Paint enamels. McDougall-Butler Co., Inc. 565,487, Oct. 21; Serial No. 588,502, published July 1, 1952.

Paint-like primer. Black Lead, Inc. 565,574, Oct. 21; Serial No. 610,953, published July 1, 1952.

Paint, Powder. Binney & Smith Company. 565,521, Oct. 21; Serial No. 599,224, published July 1, 1952.

Paint, Ready-mixed. Koppers Company, Inc. 565,697, Oct. 21; Serial No. 622,112, published July 29, 1952.

Paint, Ready-mixed chrome finish aluminum. Universal Paint & Varnish Company. 565,492, Oct. 21; Serial No. 590,628, published July 1, 1952.

Paints. The Farboil Company. 565,646, Oct. 21; Serial No. 618,391, published July 22, 1952.

Paints and coating compositions. Pittsburgh Coke & Chemical Company. 565,590, Oct. 21; Serial No. 612,703, published July 29, 1952.

Paints and enamels, Ready mixed oil. The Harrison Paint & Varnish Company. 565,686, Oct. 21; Serial No. 621,264, published July 1, 1952.

Paints and paint products, General line of. Yarnall Paint Company. 565,517, Oct. 21; Serial No. 599,055, published July 1, 1952.

Paints and varnishes, Ready-mixed oil. International Paint Company, Inc. 565,533, Oct. 21; Serial No. 604,479, published July 1, 1952.

Paints, Bituminous, ready-mixed paints, oils, etc. Allied Chemical & Dye Corporation. 565,526, Oct. 21; Serial No. 602,876, published July 29, 1952.

Paints, Technical, industrial and house, enamels; etc. Koppers Company, Inc. 565,466, Oct. 21; Serial No. 576,413, published July 29, 1952.

Paints, Interior and exterior, calcimines, paint and baking enamels, etc. Patek Brothers, Inc. 565,438, Oct. 21; Serial No. 530,677, published June 24, 1952.

Paints, liquid paste and semi-paste aluminum paste and aluminum paints. The Sherwin-Williams Company. 565,820, Oct. 21; Serial No. 624,244.

Paints, Metal and wood, paint enamels, lacquers, etc. Wright Sales Company, Inc. 565,450, Oct. 21; Serial No. 553,939, published July 1, 1952.

Paints, Ready-mixed. General Paint Corporation. 565,548, Oct. 21; Serial No. 607,014, published July 1, 1952.

Paints, Ready mixed. International Paint Company, Inc. 565,516, Oct. 21; Serial No. 598,366, published July 1, 1952.

Paints, Ready-mixed. The Patterson-Sargent Company. 565,546, Oct. 21; Serial No. 606,896, published July 29, 1952.

Paints, Ready mixed, enamel paint and varnishes. Atech, Inc. 565,609, Oct. 21; Serial No. 614,187, published July 1, 1952.

Paints, Ready mixed, paint enamels and varnishes. Plasti-Kote Inc. 565,437, Oct. 21; Serial No. 511,352, published July 29, 1952.

Paints, etc., Ready-mixed, paste, and dry. Norfolk Paint & Varnish Company. 348,327, July 20, 1937. Canceled Sept. 16, 1952. O. G. Oct. 21.

Paints, Water color, and compact paint colors. Binney & Smith Company. 565,520, Oct. 21; Serial No. 599,151, published July 1, 1952.

Pigmented seal penetrant and coating composition. E. L. Bruce Co. 565,507, Oct. 21; Serial No. 595,820, published July 29, 1952.

Resin solutions used as surface coatings. U. S. Industrial Chemicals, Inc. 565,537, Oct. 21; Serial No. 605,181, published July 29, 1952.

Roof coatings and primer. Republic Paint & Varnish Co. 565,440, Oct. 21; Serial No. 540,895, published July 1, 1952.

Transparent protective coating material. Minnesota Mining & Manufacturing Company. 565,675, Oct. 21; Serial No. 620,740, published July 29, 1952.

Transparent water-repellent or water-proofing composition. Kedmont Manufacturing & Waterproofing Co. 565,652, Oct. 21; Serial No. 618,970, published July 1, 1952.

Tree-wound dressing containing asphalt and waterproofer. The Davey Tree Expert Company. 565,463, Oct. 21; Serial No. 570,740, published July 8, 1952.

Varnish, Floor and linoleunf, spar varnish, exterior house paint, etc. F. W. Woolworth Co. 565,534, Oct. 21; Serial No. 605,000, published June 24, 1952.

Varnish, Floor and linoleum, spar varnish, exterior house paint, etc. F. W. Woolworth Co. 565,535, Oct. 21; Serial No. 605,001, published July 1, 1952.

Varnish stain, enamels. Adelphi Paint & Color Works, Inc. 565,471, Oct. 21; Serial No. 578,360, published May 27, 1952.

Varnish stains; wood stains; oil stains; etc. R. M. Hollingshead Corporation. 565,465, Oct. 21; Serial No. 574,772, published July 29, 1952.

Varnishes, paint enamels, stains, and ready-mixed paints. Boston Varnish Company. 299,371, renewed Nov. 29, 1952. O. G. Oct. 21.

Wall finishes. De Soto Paint & Varnish Co. 565,542, Oct. 21; Serial No. 605,645, published July 29, 1952.

Waterproof coating. Service Industries (a trust) 565,541, Oct. 21; Serial No. 605,374, published July 29, 1952.

Wood protection composition. Union Engineering, Inc. 565,513, Oct. 21; Serial No. 597,555, published July 29, 1952.

CLASS 18

Antacid absorbent anti-spasmodic sedative mixture. The Harrower Laboratory, Inc. 565,651, Oct. 21; Serial No. 618,792, published July 15, 1952.

Antibacterial preparation. E. R. Squibb & Sons. 565,570, Oct. 21; Serial No. 610,387, published June 24, 1952.

Antibiotic surgical powder. Davis & Geck, Inc. 565,717, Oct. 21; Serial No. 623,241, published Aug. 5, 1952.

Anticoagulant. Abbott Laboratories. 565,733, Oct. 21; Serial No. 625,782, published Aug. 5, 1952.

Antispasmodic. Wyeth Incorporated. 565,677, Oct. 21; Serial No. 620,764, published June 17, 1952.

Antispasmodic and cardiovascular preparation. The Smith-Dorsey Company. 565,497, Oct. 21; Serial No. 592,445, published July 15, 1952.

Asthma inhalant. Riddell Products Limited. 565,488, Oct. 21; Serial No. 588,810, published June 24, 1952.

Capsulated vitamin preparations, capsulated drugs and medicinal preparations, etc. R. P. Scherer Corporation. 565,508, Oct. 21; Serial No. 595,986, published June 24, 1952.

Capsule and liquid preparation. The Vale Chemical Company, Inc. 565,530, Oct. 21; Serial No. 604,113, published June 24, 1952.

Carboxy methyl cellulose. The Stuart Company. 565,522, Oct. 21; Serial No. 599,989, published June 24, 1952.

Chemical substances. Imperial Chemical Industries Limited. 565,503, Oct. 21; Serial No. 594,785, published June 24, 1952.

Colloidal solutions of natural vitamins in water for vitaminizing milk and other dairy products. N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar." 565,633, Oct. 21; Serial No. 617,052, published June 24, 1952.

Combination of pure crystalline hormones. Schering Corporation. 565,579, Oct. 21; Serial No. 611,372, published June 24, 1952.

Concentrated vitamin animal feed supplement. Nutrition Products, Inc. 565,475, Oct. 21; Serial No. 581,141, published June 24, 1952.

Cough syrup. The Norwich Pharmacal Company. 565,551, Oct. 21; Serial No. 607,392, published June 24, 1952.

Dietary supplement. Glamour Products Company. 565,500, Oct. 21; Serial No. 593,917, published July 17, 1951.

Ear drops. Broemmel Pharmaceuticals. 565,656, Oct. 21; Serial No. 619,179, published July 15, 1952.

Enzyme preparation. American Cyanamid Company. 565,639, Oct. 21; Serial No. 617,598, published Aug. 5, 1952.

Expectorant and preparation for coughs. Geigy Company, Inc. 565,536, Oct. 21; Serial No. 605,155, published June 24, 1952.

Extract used as a medicine tonic. Kegan Laboratory, Inc. 565,529, Oct. 21; Serial No. 603,931, published June 24, 1952.

Hair cream pomade. Bouquet Products, Inc. 565,782, Oct. 21; Serial No. 597,380.

Laxative, Bulk. Carter Products, Inc. 565,720–1, Oct. 21; Serial Nos. 623,334–5, published Aug. 5, 1952.

Laxative medicine. The Dr. Williams Medicine Company. 39,018, re-renewed Oct. 14, 1952. O. G. Oct. 21.

Liquid rub solution. Jim-E-Rub Company. 565,657, Oct. 21; Serial No. 619,199, published Aug. 5, 1952.

Medicinal compound. F. E. Bohl. 565,632, Oct. 21; Serial No. 617,010, published June 24, 1952.

Medicinal mouth washes, medicinal foot lotions, germicides, etc. Stanley Home Products, Inc. 565,514, Oct. 21; Serial No. 597,791, published July 15, 1952.

Medicinal preparation. Bengue Inc. 565,479, Oct. 21; Serial No. 584,962, published June 24, 1952.

Medicinal preparation. Burroughs Wellcome & Co. (U. S. A.) Inc. 565,723, Oct. 21; Serial No. 623,397, published Aug. 5, 1952.

Medicinal preparation. The Falkenhainer Corporation. 565,734, Oct. 21; Serial No. 625,977, published Aug. 5, 1952.

Medicinal preparation. Laboratories Francais de Chimiotherapie. 565,577, Oct. 21; Serial No. 611,282, published Nov. 6, 1951.

Medicinal preparation. Larroque Drug Co. 565,644, Oct. 21; Serial No. 618,049, published June 10, 1952.

Medicinal preparation. J. B. Roerig and Company. 565,478, Oct. 21; Serial No. 584,349, published Aug. 5, 1952.

Medicinal preparation. The Upjohn Company. 565,641, Oct. 21; Serial No. 617,826, published June 24, 1952.

Medicinal preparations. E. Griffiths Hughes, Limited. 565,545, Oct. 21; Serial No. 606,424, published June 24, 1952.

Medicinal preparations. Ullah Azid. 565,679, Oct. 21; Serial No. 620,832, published June 24, 1952.

Medicinal tablet. Arrestine Company, Inc. 565,559, Oct. 21; Serial No. 609,352, published Aug. 5, 1952.

Multiple vitamins and skin ointment. J. W. Curtis. 565,627, Oct. 21; Serial No. 616,700, published June 24, 1952.

Multivitamin preparation. Jackson-Mitchell Pharmaceuticals, Inc. 565,614, Oct. 21; Serial No. 615,326, published June 24, 1952.

Nose and throat medication. Morgan-Sabalol Products, Inc. 298,623, renewed Nov. 1, 1952. O. G. Oct. 21.

Penicillin vaginal suppositories. Schenley Laboratories, Inc. 565,460, Oct. 21; Serial No. 568,453, published Feb. 28, 1950.

Pharmaceutical preparation. Consolidated Royal Chemical Corporation. 565,540, Oct. 21; Serial No. 605,251, published June 24, 1952.

Pharmaceutical preparation. Charles E. Frosst & Co. 565,571, Oct. 21; Serial No. 610,435, published Aug. 5, 1952.

Pharmaceutical preparations. Ciba Limited. 565,565, Oct. 21; Serial No. 609,902, published June 24, 1952.

Pneumo-tussive expectorant and phenoxcorbion compound. Talveron Co. 565,660, Oct. 21; Serial No. 619,411, published Aug. 5, 1952.

Preparation in powder form for increasing bulk in the colon. P. W. Beirnes. 565,635, Oct. 21; Serial No. 617,184, published June 3, 1952.

Preparation used for the treatment of colds. Bio-Research Inc. 565,689, Oct. 21; Serial No. 621,500, published Aug. 5, 1952.

Preparations for the treatment of epileptic fits, fallingsickness, St. Vitus's dance, etc. B. L. Eicher. 565,671, Oct. 21; Serial No. 620,407, published Aug. 5, 1952.

Rectal suppository. Sharp & Dohme, Incorporated. 565,557, Oct. 21; Serial No. 609,207, published June 24, 1952.

Sedative. American Cyanamid Company. 565,680, Oct. 21; Serial No. 620,833, published June 24, 1952.

Sedative, Dexter Laboratories. 565,584, Oct. 21; Serial No. 611,946, published July 8, 1952.

Tablet medication. Lakeside Laboratories, Inc. 565,685, Oct. 21; Serial No. 621,152, published June 24, 1952.

Therapeutic product. Research Laboratories Center, Inc. 565,572, Oct. 21; Serial No. 610,585, published June 24, 1952.

Vitamin capsules. Babbitt's Cut Rate Stores, Inc. 565,531, Oct. 21; Serial No. 604,137, published June 24, 1952.

Vitamin concentrates. Commercial Solvents Corporation. 565,631, Oct. 21; Serial No. 616,899, published June 24, 1952.

Vitamin mixes. Anderson, Clayton & Co. 565,525, Oct. 21; Serial No. 602,483, published June 24, 1952.

Vitamin preparations. N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar." 565,634, Oct. 21; Serial No. 617,054, published June 24, 1952.

Vitamins and minerals in combined dosage form. Ives-Cameron Company, Inc. 565,569, Oct. 21; Serial No. 610,322, published Aug. 5, 1952.

CLASS 19

Airplanes. Consolidated Vultee Aircraft Corporation. 565,810, Oct. 21; Serial No. 617,012.

Brake pedal attachments. F. B. Curtenius. 565,786, Oct. 21; Serial No. 600,880.

Collapsible shopping cart. Dennis Mitchell Industries. 565,781, Oct. 21; Serial No. 595,711.

Flexible transparent visors, for automobile windshields. Visionade Visor Co., Inc. 565,818, Oct. 21; Serial No. 622,047.

Grill guards, bumpers, and spare tire carriers. G. R. Hutchinson. 565,819, Oct. 21; Serial No. 622,941.

Trailer and small pleasure-type fishing or row boat, Combined. W. F. Hann. 542,166, May 8, 1951. Canceled Sept. 2, 1952. O. G. Oct. 21.

Wind deflecting shields. G. L. Ritch. 565,783, Oct. 21; Serial No. 597,910.

CLASS 21

Electrical motors and controls. The Brown-Brockmeyer Company. 565,775, Oct. 21; Serial No. 592,756.

Electromagnetic freight elevator door operators and freight elevator doors equipped with such operators. Security Fire Door Company. 565,799, Oct. 21; Serial No. 611,743.

Lamps, Electrical table, floor, ceiling, and wall. Cricket Hill Pottery. 565,768, Oct. 21; Serial No. 579,670.

Radio receivers, radio receiver accessories, etc. James Millen Manufacturing Company, Inc. 565,794, Oct. 21; Serial No. 611,033.

Storage batteries. Atlas Supply Company. 298,013, renewed Oct. 11, 1952. O. G. Oct. 21.

Storage batteries. Atlas Supply Company. 298,381, renewed Oct. 25, 1952. O. G. Oct. 21.

Storage batteries. Atlas Supply Company. 298,382, renewed Oct. 25, 1952. O. G. Oct. 21.

Storage batteries. Atlas Supply Company. 298,767, renewed Nov. 8, 1952. O. G. Oct. 21.

Storage batteries, storage battery chargers, electric fuses, etc. Atlas Supply Company. 298,350, renewed Oct. 25, 1952. O. G. Oct. 21.

CLASS 22

Apparatus for casting articles. Glo-Lure, Inc. 565,776, Oct. 21; Serial No. 594,043.

Dolls. Ideal Novelty & Toy Co. 299,540, renewed Dec. 6, 1952. O. G. Oct. 21.

Fishing line. Western Lace and Line Company. 565,808, Oct. 21; Serial No. 615,592.

Sand boxes and wading pools. American Metal Specialties Corp. 565,809, Oct. 21; Serial No. 615,966.

Toy coach for children. American Metal Specialties Corporation. 565,804, Oct. 21; Serial No. 614,119.

CLASS 23

Attachments for sewing machines. The Greist Manufacturing Company. 87,623, July 30, 1912. Republished Oct. 21.

Back rip scarifiers. Preco Incorporated. 565,567, Oct. 21; Serial No. 610,228, published June 24, 1952.
C-clamps, strap-clamps, lathe-dogs, etc. J. H. Williams & Co. 88,987, re-renewed Oct. 29, 1952. O. G. Oct. 21.
Cream separating machines, Centrifugal. The De Laval Separator Company. 294,733, renewed June 7, 1952. O. G. Oct. 21.
Deep well earth core drilling bits and core-taking equipment. Reed Roller Bit Company. 565,443, Oct. 21; Serial No. 546,426, published June 10, 1952.
Differential gearing. The Timken-Detroit Axle Company. 298,710, renewed Nov. 1, 1952. O. G. Oct. 21.
Earth drilling machines and drilling bits. George E. Failing Supply Company. 565,473, Oct. 21; Serial No. 578,873, published June 17, 1952.
Flexible power-transmitting couplings. Lovejoy Flexible Coupling Company. 565,666, Oct. 21; Serial No. 619,944, published July 22, 1952.
Fluid pumps, tractor-drawn farm implements. Parma Water Lifter Co. 565,636, Oct. 21; Serial No. 617,312, published July 22, 1952.
Hammer-mills, hammer crushers, Bradford breakers, etc. Pennsylvania Crusher Company. 565,562, Oct. 21; Serial No. 609,602, published July 15, 1952.
Hosiery machine thread carriers. Quick Change Carriers, Inc. 565,524, Oct. 21; Serial No. 602,065, published July 22, 1952.
Hydraulic hand lift trucks. H & S Mfg. Co. 565,658, Oct. 21; Serial No. 619,241, published July 1, 1952.
Kitchen and table knives and forks, butcher knives, shoe knives, etc. Ontario Knife Company. 296,228, Aug. 2, 1932. Republished Oct. 21.
Kitchen utensils. H. M. Kellogg. 565,595, Oct. 21; Serial No. 613,295, published July 1, 1952.
Knives, Sheet metal. American Slicing Machine Company. 565,670, Oct. 21; Serial No. 620,135, published June 24, 1952.
Lawn mowers, Power driven. P. W. Hainke. 565,761, Oct. 21; Serial No. 507,723.
Mobile straight line mechanical conveyors. Stewart-Glapat Corporation. 565,654, Oct. 21; Serial No. 619,150, published June 17, 1952.
Outboard motor units and parts thereof. Kiekhaefer Corporation. 565,610, Oct. 21; Serial No. 614,302, published July 22, 1952.
Razor blades. Clover Farm Stores Corporation. 565,692, Oct. 21; Serial No. 621,815, published July 22, 1952.
Razor blades, Safety. Otto Roth, Inc. 297,476, renewed Sept. 13, 1952. O. G. Oct. 21.
Razor blades, Safety. Otto Roth, Inc. 297,755, renewed Sept. 27, 1952. O. G. Oct. 21.
Rock-breaking machines. Pettibone Mulliken Corporation. 565,643, Oct. 21; Serial No. 617,929, published July 22, 1952.
Rock crushers. Lippmann Engineering Works. 565,480, Oct. 21; Serial No. 585,884, published July 22, 1952.
Sewing machines. The New Home Sewing Machine Company. 295,073, renewed June 14, 1952. O. G. Oct. 21.
Stock feeder, Automatic. Parker-Bailey Manufacturing Company. 565,474, Oct. 21; Serial No. 579,052, published Jan. 16, 1951.
Tools, Fence erecting. Page Steel and Wire Company. 292,494, renewed Mar. 15, 1952. O. G. Oct. 21.

CLASS 26

Cameras, Photographic, lenses, and camera carrying cases. Kelly Photo Supply. 536,954, Jan. 23, 1951. Canceled Sept. 2, 1952. O. G. Oct. 21.
Compasses and dividers. Eagle Pencil Company. 296,346, renewed Aug. 2, 1952. O. G. Oct. 21.
Instruments for measuring electrical resistances. Herman H. Sticht Company, Inc. 444,724, Oct. 21; Serial No. 488,673, published June 3, 1952.
Photographic attachments and photographic accessories. The Kalart Company Inc. 444,726, Oct. 21; Serial No. 515,882, published June 3, 1952.
Recorders, High sensitivity high speed. Leeds and Northrup Company. 294,809, renewed June 7, 1952. O. G. Oct. 21.
Telescopes. Bausch & Lomb Optical Company. 565,688, Oct. 21; Serial No. 621,499, published June 3, 1952.

CLASS 27

Clocks. Kalex Corporation. 565,527, Oct. 21; Serial No. 603,297, published June 17, 1952.
Watches and watch cases. Flair Jewelry Corporation. 565,600, Oct. 21; Serial No. 613,667, published July 8, 1952.

CLASS 28

Jewelry. Forstner Chain Corporation. 565,538, Oct. 21; Serial No. 605,207, published July 8, 1952.
Pearls, Individually carded cultured, and cultured pearl necklaces. B. F. Brogan. 565,578, Oct. 21; Serial No. 611,337, published July 8, 1952.
Silverware. F. E. Weidlich. 565,576, Oct. 21; Serial No. 611,115, published July 8, 1952.

CLASS 29

Brushes. Solo-Horton Brush Company, Incorporated. 565,477, Oct. 21; Serial No. 583,413, published July 1, 1952.
Cleaning pads. H. S. McClure. 565,555, Oct. 21; Serial No. 608,560, published Aug. 5, 1952.
Mops and mop heads. D. Levow. 565,588, Oct. 21; Serial No. 612,501, published July 1, 1952.
Mops, Floor. The New York Association for the Blind, Inc. 565,544, Oct. 21; Serial No. 606,036, published Aug. 5, 1952.
Mops, Roofers. National Automotive Fibres, Inc. 565,765, Oct. 21; Serial No. 564,760.

CLASS 32

Furniture, Children's. L. Bamberger & Co. 297,276, renewed Sept. 6, 1952. O. G. Oct. 21.

CLASS 33

Glass, Flat. Blue Ridge Glass Corporation. 565,575, Oct. 21; Serial No. 611,074, published July 8, 1952.

CLASS 34

Air conditioners, Electrically operated one-half ton, three-fourth horse power unit. Goldblatt Bros, Inc. 565,491, Oct. 21; Serial No. 589,847, published Feb. 27, 1951.
Air dehumidifying units. Mitchell Manufacturing Company. 565,509, Oct. 21; Serial No. 596,174, published June 24, 1952.
Blowers, exhaust fans, air conditioners, etc. W. W. Grainger Inc. 565,625, Oct. 21; Serial No. 616,664, published June 24, 1952.
Exothermic reaction apparatus. General Electric Company. 565,495, Oct. 21; Serial No. 591,777, published July 15, 1952.
Furnace casings, Sectional refractory. R. C. Eisentrager. 565,464, Oct. 21; Serial No. 570,839, published June 24, 1952.
Furnaces, damper regulators, hot water heaters, etc. Sears, Roebuck and Co. 565,445, Oct. 21; Serial No. 550,451, published Aug. 15, 1950.
Gas generators, regenerators, coke ovens, and devolatilization chambers. "Compagnie Pan-Europeenne d'Installations et d'Equipement Industriels," S. A. R. L. 565,498, Oct. 21; Serial No. 592,549, published June 24, 1952.
Gas making machines. Tirrill Gas Machine Corporation. 565,496, Oct. 21; Serial No. 592,008, published July 8, 1952.
Hot plates. The Consolidated Iron-Steel Mfg. Co. 565,599, Oct. 21; Serial No. 613,585, published June 24, 1952.
Louvre grilles. Mitchell Manufacturing Company. 565,510, Oct. 21; Serial No. 596,176, published July 1, 1952.
Oil burners. The Denver Fire Clay Company. 532,514, Oct. 24, 1950. Canceled Aug. 25, 1952. O. G. Oct. 21.
Reverberatory industrial furnaces. C. G. de Laval, Jr. 565,694, Oct. 21; Serial No. 621,888, published July 8, 1952.
Steam and hot water heating elements; exhaust fans, etc. The New York Blower Company. 565,515, Oct. 21; Serial No. 598,200, published July 1, 1952.
Water heaters, Oil-fired. Platt Products Corporation. 565,583, Oct. 21; Serial No. 611,806, published June 24, 1952.

CLASS 35

Machinery packings, Asbestos, cotton, fibrous, and metal. Johns-Manville Corporation. 295,563, renewed July 5, 1952. O. G. Oct. 21.

CLASS 36

Accordions. Southern Music Company. 565,628, Oct. 21; Serial No. 616,736, published July 15, 1952.
Musical instruments. E. Beechler. 565,447, Oct. 21; Serial No. 551,758, published June 17, 1952.
Paper envelopes for phonograph records. Cohoes Envelope Company, Inc. 565,554, Oct. 21; Serial No. 608,189, published June 17, 1952.
Phonograph records. Wilcox-Gay Corporation. 565,449, Oct. 21; Serial No. 552,528, published July 29, 1952.
Phonograph records, Grooved. A. Foster. 565,722, Oct. 21; Serial No. 623,346, published July 15, 1952.
Phonograph records, Grooved. M. MacGregor. 565,561, Oct. 21; Serial No. 609,595, published June 17, 1952.
Phonograph records, Grooved. Norcon, Incorporated. 565,564, Oct. 21; Serial No. 609,942, published June 17, 1952.
Phonograph records, Grooved. Juan Martinez Vela, Inc. 565,553, Oct. 21; Serial No. 608,093, published July 15, 1952.
Phonograph records, Grooved. H. E. Whittet. 565,511, Oct. 21; Serial No. 596,636, published Jan. 1, 1952.
Phonograph records, Grooved. H. Wolf. 565,469, Oct. 21; Serial No. 577,837, published July 15, 1952.
Phonograph records, Mechanically grooved. Coral Records, Inc. 565,613, Oct. 21; Serial No. 614,985, published June 17, 1952.
Phonograph records, Mechanically grooved. Prom Record Co. 565,743, Oct. 21; Serial No. 626,747, published July 15, 1952.
Pianos. Kranich & Bach. 565,467, Oct. 21; Serial No. 576,974, published June 17, 1952.
String instruments. Harmolin, Inc. 565,622, Oct. 21; Serial No. 616,098, published June 17, 1952.
Stringed and fretted instruments, wood-wind musical instruments, etc. J. M. Sahlein. 565,456, Oct. 21; Serial No. 562,961, published July 29, 1952.

Violas, cellos, and string basses. Scherl & Roth, Inc. 565,739, Oct. 21; Serial No. 626,703, published July 15, 1952.
Violas, cellos, basses and bows. Scherl & Roth, Inc. 565,741, Oct. 21; Serial No. 626,706, published July 15, 1952.
Violins, violas, cellos and string basses. Scherl & Roth, Inc. 565,742, Oct. 21; Serial No. 626,707, published July 15, 1952.
Violins, violas, cellos, string basses and bows. Scherl & Roth, Inc. 565,740, Oct. 21; Serial No. 626,704, published July 15, 1952.

CLASS 37

Paper strips, leaves and sheets, Plain, partially lithographed, and partially printed. Autographic Register Company. 565,767, Oct. 21; Serial No. 575,454.
Paper, Toilet, paper towels, paper napkins, etc. Fort Howard Paper Company. 298,870, renewed Nov. 8, 1952. O. G. Oct. 21.
Paper, Wrapping. Benmont Papers Inc. 565,785, Oct. 21; Serial No. 599,492.
Paper, Writing. Byron Weston Company. 86,276, Apr. 30, 1912. Republished Oct. 21.
Score card holders. Andersen & Andersen. 565,784, Oct. 21; Serial No. 599,215.

CLASS 38

Publications. The Standard Statistics Company, Inc. 298,507, renewed Oct. 25, 1952. O. G. Oct. 21.

CLASS 39

Apparel, Ladies'. Benson Modes, Inc. 565,490, Oct. 21; Serial No. 589,763, published July 29, 1952.
Apparel, Women's. The Hecht Co. 298,483, renewed Oct. 25, 1952. O. G. Oct. 21.
Beachwear. Lee Knitwear Corp. 565,791, Oct. 21; Serial No. 609,873.
Blouses, Women's. Ann Abbott, Inc. 565,616, Oct. 21; Serial No. 615,617, published July 29, 1952.
Boot and shoe heels. Corman Leather Company, Inc. 565,764, Oct. 21; Serial No. 560,550.
Boots, shoes, and slippers, etc. Clark-Hutchinson Co. 39,170, re-renewed Nov. 4, 1952. O. G. Oct. 21.
Brassière top slips, brassière top bathing suits, and dresses, Ladies'. Toni Lee, Ltd. 565,504, Oct. 21; Serial No. 595,546, published July 29, 1952.
Brassières. Lilyette Brassiere Co., Inc. 565,728, Oct. 21; Serial No. 624,342, published July 29, 1952.
Clothing, Men's. V-Line Clothes Company. 565,802, Oct. 21; Serial No. 613,032.
Dresses and suits, brassières, etc, Women's. Avorn, Inc. 565,774, Oct. 21; Serial No. 592,536.
Dresses, coats, and sweater suits, Children's. L. Bamberger & Co. 296,151, renewed July 26, 1952. O. G. Oct. 21.
Dresses, Ladies'. W. J. Markowitz. 565,648, Oct. 21; Serial No. 618,502, published July 29, 1952.
Garment, Cape-like cover. W. Spear. 565,788, Oct. 21; Serial No. 604,041.
Gloves and mittens. The Boss Manufacturing Company. 565,502, Oct. 21; Serial No. 594,305, published July 29, 1952.
Gloves, Work. Davids Gloves, Inc. 565,707–8, Oct. 21; Serial Nos. 622,582–3, published July 29, 1952.
Hairnets. Hairnet Corporation of America. 565,706, Oct. 21; Serial No. 622,539, published July 29, 1952.
Hosiery. Belle Meade Hosiery Mills, Inc. 565,518, Oct. 21; Serial No. 599,146, published July 29, 1952.
Hosiery and lingerie. Sultana Hosiery Mills, Inc. 298,432, renewed Oct. 25, 1952. O. G. Oct. 21.
Hosiery, Ladies'. Laros Textiles Company. 565,470, Oct. 21; Serial No. 578,030, published July 29, 1952.
Hosiery, Ladies'. Rivoli Hosiery Company, Inc. 565,725, Oct. 21; Serial No. 623,528, published July 29, 1952.
Hosiery, Ladies'. Vogue Manufacturing Corp. 565,726, Oct. 21; Serial No. 623,625, published July 29, 1952.
Hosiery, Women's. H. Aust. 565,448, Oct. 21; Serial No. 552,208, published May 23, 1950.
Hosiery, Women's. Paramount Textile Machinery Co. 565,593, Oct. 21; Serial No. 612,973, published July 29, 1952.
Hosiery, Women's. Sapphire Corporation. 565,711, Oct. 21; Serial No. 622,849, published July 29, 1952.
Hosiery, Women's, and men's hose. Gotham Hosiery Company, Inc. 565,664, Oct. 21; Serial No. 619,827, published July 29, 1952.
Knitted wear for men. Ainsbrooke Co. Inc. 565,673, Oct. 21; Serial No. 620,654, published July 29, 1952.
Shirts, dress shirts, etc., Infants', boys' and youths'. Savada Bros., Inc. 565,771, Oct. 21; Serial No. 587,824.
Shirts, Men's and boys'. Summit Mills Corporation. 565,777, Oct. 21; Serial No. 594,293.
Sleeping bags, Infant's. A. M. Lannoy. 565,563, Oct. 21; Serial No. 609,865, published July 29, 1952.
Sportswear, Infants', children's and juvenile, and underwear for boys, etc. Penny Manufacturing Corp. 565,558, Oct. 21; Serial No. 609,259, published July 29, 1952.
Sportswear, Men's and boys'. MacLaren Sportswear Corp. 565,796, Oct. 21; Serial No. 611,135.
Stockings, Ladies'. Green Lane Hosiery Co., Inc. 565,806, Oct. 21; Serial No. 614,345.
Stockings, Ladies'. Mansfield Hosiery Mills Limited. 565,638, Oct. 21; Serial No. 617,373, published July 29, 1952.
Suits, overcoats, topcoats, etc., Men's and boys'. The H. A. Selnsheimer Company. 565,793, Oct. 21; Serial No. 610,103.
Sweaters, blouses, skirts, etc., Women's and girls'. Jimmie Greenbaum Specialties, Inc. 565,773, Oct. 21; Serial No. 590,362.
Swim suits. Catalina, Inc. 565,801, Oct. 21; Serial No. 612,440.
Trunks worn as outer garments. The B. V. D. Company, Inc. 297,183, renewed Sept. 6, 1952. O. G. Oct. 21.
Undergarments and foundation garments, Women's. Wolfe & Lang, Inc. 565,612, Oct. 21; Serial No. 614,735, published July 29, 1952.
Underwear, Men's, boys', and children's, infants' and children's sleepers, etc. Standard Knitting Mills, Inc. 565,603, Oct. 21; Serial No. 613,792, published July 29, 1952.
Wearing apparel, Ladies'. Dutchess Underwear Corporation. 565,813, Oct. 21; Serial No. 618,485.
Wearing apparel, Ladies'. Dutchess Underwear Corporation. 565,816, Oct. 21; Serial No. 619,819.
Wearing apparel, Women's and misses'. Aldens, Inc. 565,483, Oct. 21; Serial No. 586,450, published Dec. 26, 1950.

CLASS 40

Buckles. Pioneer Suspender Company. 299,417, renewed Dec. 6, 1952. O. G. Oct. 21.

CLASS 42

Carpets, Woven. J. M. Adamo. 565,812, Oct. 21; Serial No. 618,138.
Cloths and stuffs of wool, worsted, or hair. William Fulton & Sons, Ltd. 38,564, re-renewed July 8, 1952. O. G. Oct. 21.
Curtains, Lace. Quaker Lace Company. 87,801, re-renewed Aug. 6, 1952. O. G. Oct. 21.
Fabric, Worsted. Howse, Mead & Sons, Inc. 565,642, Oct. 21; Serial No. 617,878, published July 29, 1952.
Fabrics. G. Ravasi. 565,682, Oct. 21; Serial No. 621,030, published Aug. 5, 1952.
Fabrics, All-worsted whipcord. Oregon Worsted Company. 565,639, Oct. 21; Serial No. 619,401, published July 29, 1952.
Fabrics, Corduroy, and other fabrics in the piece. Boott Mills. 565,811, Oct. 21; Serial No. 617,105.
Fabrics, Elastic net. Darlington Fabrics Corporation. 565,700, Oct. 21; Serial No. 622,381, published Aug. 5, 1952.
Fabrics, Fire resistant. H. Wenzel Tent & Duck Co. 565,605, Oct. 21; Serial No. 613,858, published July 29, 1952.
Fabrics in the piece, Textile. Mandee Fabrics, Inc. 565,815, Oct. 21; Serial No. 618,641.
Fabric, Knitted. Jantzen Knitting Mills Inc. 565,589, Oct. 21; Serial No. 612,694, published July 29, 1952.
Fabrics, Non-woven. The Kendall Company. 565,501, Oct. 21; Serial No. 593,990, published July 29, 1952.
Fabrics, Rayon and nylon. Blossom Fabrics Corp. 565,621, Oct. 21; Serial No. 616,010, published July 29, 1952.
Fabrics, Rayon crepe. Park Silk Co., Inc. 565,626, Oct. 21; Serial No. 616,677, published July 29, 1952.
Fabrics, Rayon, cotton sheeting, and Osnaburg fabrics. Fulton Bag & Cotton Mills. 565,681, Oct. 21; Serial No. 620,885, published Aug. 5, 1952.
Fabrics, Tweed. Argarden Tweeds Limited. 565,736, Oct. 21; Serial No. 626,229, published July 29, 1952.
Fabrics, Upholstery, drapery, slipcover, etc. Allied Products, Inc. 565,716, Oct. 21; Serial No. 623,231, published Aug. 5, 1952.
Fabrics, Waterproofed paper-backed. Bemis Bro. Bag Company. 565,640, Oct. 21; Serial No. 617,647, published July 15, 1952. (Consolidated certificate, classes 2 and 42.)
Fabrics, Woolen and worsted. Appleton Woolen Mills. 565,693, Oct. 21; Serial No. 621,854, published Aug. 5, 1952.
Fabrics, Woven plastic. Hafner Associates, Inc. 565,735, Oct. 21; Serial No. 626,164, published July 29, 1952.
Fabrics, Woven textile. Etablissements Veuve Louis Tant. 565,547, Oct. 21; Serial No. 607,010, published July 29, 1952.
Piece goods. Burton Brothers & Co. Inc. 565,645, Oct. 21; Serial No. 618,287, published July 29, 1952.
Piece goods. Cluett, Peabody & Co., Inc. 565,667, Oct. 21; Serial No. 619,989, published July 29, 1952.
Piece goods. Cluett, Peabody & Co., Inc. 565,668, Oct. 21; Serial No. 619,991, published Aug. 5, 1952.
Piece goods. William Heller Incorporated. 565,549, Oct. 21; Serial No. 607,020, published Mar. 11, 1952.
Piece goods, Lace. Quaker Lace Company. 87,800, re-renewed Aug. 6, 1952. O. G. Oct. 21.
Rugs, Chenille type broadloom. Berven Rug Mills, Inc. 565,630, Oct. 21; Serial No. 616,812, published July 29, 1952.
Rugs, Hand-loomed cotton. Topton Rug Manufacturing Co. 565,587, Oct. 21; Serial No. 612,285, published July 29, 1952.

Rugs, mats, and carpets, Textile. Callaway Mills Company. 565,601–2, Oct. 21; Serial Nos. 613,761–2, published July 29, 1952.
Sheets and pillow cases. Naumkeag Steam Cotton Company. 565,629, Oct. 21; Serial No. 616,777, published July 29, 1952.
Sheets, pillow cases, blankets, etc. Mosse, Incorporated. 565,770, Oct. 21; Serial No. 587,497.
Wash cloths, baby bath blankets, baby receiving blankets, etc. Bilbo Knitting Company, Inc. 565,617, Oct. 21; Serial No. 615,753, published July 29, 1952.

CLASS 43

Thread. The Gardiner Hall, Jr., Company. 294,991, renewed June 14, 1952. O. G. Oct. 21.
Threads and yarns. Societe Rhodiaceta. 565,615, Oct. 21; Serial No. 615,612, published July 29, 1952.

CLASS 44

Apparatus for permanent waving of the hair. Société Anonyme: Societe Gallia. 565,506, Oct. 21; Serial No. 595,685, published July 29, 1952.
Hair waving pads. Zotos, Inc. 295,481, renewed July 5, 1952. O. G. Oct. 21.

CLASS 46

Biscuits. McCormick Mfg. Co. Limited. 278,216, Dec. 9, 1930. Republished Oct. 21.
Blend of pure dehydrated egg yolk, selected proteins of milk, salts, etc. Joe Lowe Corporation. 298,793–4, renewed Nov. 8, 1952. O. G. Oct. 21.
Candy. Geo. Bassett & Company Limited. 565,586, Oct. 21; Serial No. 612,236, published July 29, 1952.
Candy. E. J. Brach & Sons. 565,454, Oct. 21; Serial No. 561,799, published July 29, 1952.
Candy. De Witt P. Henry Co., Inc. 565,592, Oct. 21; Serial No. 612,861, published July 29, 1952.
Candy. C. N. Miller. 88,913, re-renewed Oct. 29, 1952. O. G. Oct. 21.
Canned apple sauce. Silveira & O'Connell. 565,769, Oct. 21; Serial No. 581,297.
Canned fish. F. A. Gosse Company. 297,949, renewed Oct. 4, 1952. O. G. Oct. 21.
Canned fruits, canned vegetables, catsup, etc. King Dobbs & Company. 299,020, renewed Nov. 15, 1952. O. G. Oct. 21.
Canned frozen concentrated orange juice. Essence, Inc. 565,779, Oct. 21; Serial No. 595,069.
Canned peas. Green Giant Company. 565,582, Oct. 21; Serial No. 611,779, published July 29, 1952.
Cereal food products. The "Force" Food Company. 39,313, re-renewed Nov. 18, 1952. O. G. Oct. 21.
Cereal food products. The H-O (Hornby's Oatmeal) Company. 39,374, re-renewed Dec. 2, 1952. O. G. Oct. 21.
Cereal foods. Hecker-H-O Company, Inc. 218,937, Oct. 5, 1926. Canceled Aug. 25, 1952. O. G. Oct. 21.
Chewing gum. American Chewing Products Corp. 565,822, Oct. 21; Serial No. 628,891.
Chicken Fried. T. H. Thomas. 565,772, Oct. 21; Serial No. 588,715.
Chocolate covered ice cream confection. E. Von Tuerk. 565,676, Oct. 21; Serial No. 620,757, published July 29, 1952.
Coffee. Baker Importing Co. Inc. 565,442, Oct. 21; Serial No. 546,342, published July 29, 1952.
Coffee. James Van Dyk Company. 88,434, re-renewed Sept. 17, 1952. O. G. Oct. 21.
Corn starch. The Hubinger Company. 297,646, renewed Sept. 20, 1952. O. G. Oct. 21.
Cream. The De Laval Separator Company. 294,987, renewed June 14, 1952. O. G. Oct. 21.
Cream, Sterilized. Avoset Company. 565,493, Oct. 21; Serial No. 591,274, published July 29, 1952.
Cuts of beef, veal, lamb, Fresh commercial. Louis Salganik & Sons. 565,795, Oct. 21; Serial No. 611,043.
Dairy products. Dean Milk Company. 565,607, Oct. 21; Serial No. 614,136, published July 29, 1952.
Feed, Mixed. Standard Milling Company. 565,441, Oct. 21; Serial No. 545,785, published July 29, 1952.
Feed, Stock, chicken feed, and dairy feed. Texas Farm Products Company. 295,169, renewed June 21, 1952. O. G. Oct. 21.
Flour, Wheat. Burrus Mills, Incorporated. 565,729, Oct. 21; Serial No. 624,389, published July 29, 1952.
Fruit and nut candy. A. Sahadi and Co., Inc. 565,780, Oct. 21; Serial No. 595,283.
Fruits, Fresh deciduous. Cashmere Pioneer Growers, Inc. 565,624, Oct. 21; Serial No. 616,222, published July 29, 1952.
Grapes, Fresh. T. H. Lynch. 86,418, May 7, 1912. Republished Oct. 21.
Grapes, Fresh, fresh deciduous fruits, fresh citrus fruits, etc. United Packing Company. 297,711, Sept. 27, 1932. Republished Oct. 21.
Ice cream and frozen custard. Anarc, Incorporated. 565,805, Oct. 21; Serial No. 614,280.
Milk drinks. B. D. Warnes. 565,787, Oct. 21; Serial No. 601,006.
Nuts, Unshelled. Salem Nut Growers Cooperative. 565,790, Oct. 21; Serial No. 607,266.
Oleomargarine, evaporated milk, mayonnaise, etc. John F. Jelke Company. 299,345, renewed Nov. 29, 1952. O. G. Oct. 21.
Partially prepared tomato, onion, potato and cheese puffs. Kracketts Company. 565,452, Oct. 21; Serial No. 561,196, published Aug. 1, 1950.
Peanuts, Shelled. Geoggia Peanut Company. 565,766, Oct. 21; Serial No. 573,539.
Pheasants, squab, guinea hens, etc. Embers, Inc. 565,606, Oct. 21; Serial No. 613,977, published July 29, 1952.
Popcorn. Manley, Inc. 444,727, Oct. 21; Serial No. 516,204, published Jan. 16, 1951.
Popcorn, Popped and buttered, and for salt. Manley, Inc. 565,461, Oct. 21; Serial No. 569,386, published July 10, 1951.
Poultry, Fresh and quick frozen dressed. Hartford Live Poultry. 565,803, Oct. 21; Serial No. 613,773.
Product in dry or liquid form consisting of a mechanical mixture of egg white and derivative of soybeans with salt. The Borden Company. 565,661, Oct. 21; Serial No. 619,532, published July 29, 1952.
Puffed wheat, Sweetened. The Quaker Oats Company. 565,797–8, Oct. 21; Serial No. 611,196–7.
Relish, Luncheon, horseradish, sliced pickles, etc. The Manhattan Pickle Company. 565,451, Oct. 21; Serial No. 560,715, published July 29, 1952.
Rice. Rice Growers Association of California. 565,585, Oct. 21; Serial No. 612,034, published July 29, 1952.
Sausage seasonings. A. J. Gerst. 565,597, Oct. 21; Serial No. 613,405, published July 29, 1952.
Shortening, Vegetable. Safeway Stores, Incorporated. 565,718, Oct. 21; Serial No. 623,286, published July 29, 1952.
Spaghetti sauce. Venice Maid Company. 299,084, renewed Nov. 22, 1952. O. G. Oct. 21.
Stick-licorice, licorice chewing-gum, and licorice wafers. National Licorice Company. 88,935, re-renewed Oct. 29, 1952. O. G. Oct. 21.
Sugar and confectionery syrup. Sucrest Corporation. 297,908, renewed Oct. 4, 1952. O. G. Oct. 21.
Tomato, onion, potato, and cheese puffs, Partially prepared. Kracketts Company. 565,453, Oct. 21; Serial No. 561,197, published July 25, 1950.
Vegetable derived products, Liquid. The Dixie Whip Sales Corporation. 565,814, Oct. 21; Serial No. 618,629.
Vegetables, Fresh. M. O. Best. 565,762, Oct. 21; Serial No. 557,657.
Vegetables, Fresh. L. M. McLaren. 298,554, renewed Nov. 1, 1952. O. G. Oct. 21.
Vegetables, Fresh. Pacific Camble Robinson Co. 565,792, Oct. 21; Serial No. 610,019.

CLASS 50

Multiple hen nests. Storm Industries, Inc. 565,696, Oct. 21; Serial No. 621,915, published July 29, 1952.
Plastic sign letters. T. G. Faulkner. 565,821, Oct. 21; Serial No. 626,201.

CLASS 51

Deodorant in stick form. Virginia Parks, Inc. 565,598, Oct. 21; Serial No. 613,420, published July 1, 1952.
Face powder. Bourjois, Inc. 299,339, renewed Nov. 29, 1952. O. G. Oct. 21.
Hair dressing. Keystone Laboratories, Inc. 565,528, Oct. 21; Serial No. 603,795, published June 17, 1952.
Lipstick and nail lacquer. Chen Yu, Inc. 565,499, Oct. 21; Serial No. 592,979, published June 10, 1952.
Perfume, toilet water, face powder, etc. Bourjois, Inc. 299,190, renewed Nov. 22, 1952. O. G. Oct. 21.
Perfumes, colognes and scented dusting powders. Neiman-Marcus Company. 565,690, Oct. 21; Serial No. 621,679, published July 1, 1952.
Perfumes, Liquid and powdered. Colgate & Co. 89,226, re-renewed Dec. 3, 1952. O. G. Oct. 21.
Preparation in the form of a cream. The Mountain Varnish & Color Works, Inc. 297,807, renewed Oct. 4, 1952. O. G. Oct. 21.
Shaped and multi-colored plastic sprinkles, particularly used for evening wear on the hair and eye lids. Elizabeth Arden Sales Corporation. 565,581, Oct. 21; Serial No. 611,677, published July 8, 1952.
Shaving cream. Lever Brothers Company. 565,653, Oct. 21; Serial No. 619,093, published July 1, 1952.

CLASS 52

Cleaner, cleanser and detergent, Sudsing. The Procter & Gamble Company. 565,552, Oct. 21; Serial No. 607,681, published July 29, 1952.
Cleaner, Liquid floor, white tire cleaner and a combination penetrating floor cleaner and grease solvent. L. M. Brownsey. 565,468, Oct. 21; Serial No. 577,366, published Mar. 25, 1952.
Cleaning agent. C. W. Smith. 565,523, Oct. 21; Serial No. 601,479, published July 29, 1952.
Cleaning solvent. Union Oil Company of California. 565,691, Oct. 21; Serial No. 621,738, published July 15, 1952.
Compound for treating furred animal pelts. Ryolin Fur Division Inc. 565,698, Oct. 21; Serial No. 622,277, published July 15, 1952.
Detergent, cleaner and disinfectant, Germicidal. West Disinfecting Company. 565,573, Oct. 21; Serial No. 610,770, published July 15, 1952.

Liquid for cleaning dental impression pastes. Opotow Dental Manufacturing Corp. 565,672, Oct. 21; Serial No. 620,523, published July 29, 1952.
Paints, Outside and inside, wood stains, primers and sealers, etc. American Seal Paint Mfg. Co., Inc. 565,505, Oct. 21; Serial No. 595,646, published July 1, 1952.
Shampoo blender, Color. La Playa Products, Inc. 565,763, Oct. 21; Serial No. 558,398.
Soap. Colgate-Palmolive-Peet Company. 565,459, Oct. 21; Serial No. 568,097, published Aug. 5, 1952.
Soap, Toilet, soap flakes, window cleaner, etc. Consolidated Grocers Corporation. 565,560, Oct. 21; Serial No. 609,477, published July 15, 1952.
Soaps and detergents; all-purpose liquid and powdered cleaners, car wash, etc. N. B. Purdy Products Inc. 565,611, Oct. 21; Serial No. 614,716, published July 15, 1952.
Sodium hypochlorite solution for use in washing clothes, etc. Gardiner Manufacturing Company, Inc. 565,705, Oct. 21; Serial No. 622,532, published July 29, 1952.
Washing sodas. Magnuson Products Corporation. 298,185, renewed Oct. 18, 1952. O. G. Oct. 21.

CLASS 100

Electric power distribution services. Union Electric Company of Missouri. 565,751, Oct. 21; Serial No. 585,463, published July 22, 1952.
Packaging for others of small articles, etc. Ivers-Lee Company. 565,756, Oct. 21; Serial No. 613,226, published July 22, 1952.

CLASS 101

Advertising agency services. Rose-Martin, Inc. 565,750, Oct. 21; Serial No. 578,224, published July 29, 1952.
Advertising the goods and services of others. E. R. Tanz. 565,755, Oct. 21; Serial No. 606,737, published July 29, 1952.
Managing resort hotels and the like. Shinderman Management Corporation. 565,752, Oct. 21; Serial No. 590,185, published July 29, 1952.

CLASS 102

Promoting and managing the sale of real estate. Previews Incorporated. 565,757, Oct. 21; Serial No. 620,930, published July 22, 1952.

CLASS 103

Maintenance service. General Motors Corporation. 565,749, Oct. 21; Serial No. 567,258, published July 29, 1952.

CLASS 105

Transportation of goods by motor van. National Van Lines, Inc. 565,760, Oct. 21; Serial No. 623,199, published July 22, 1952.

CLASS 106

Dyeing of textiles. Switzer Brothers, Inc. 565,753, Oct. 21; Serial No. 603,317, published July 29, 1952.
Performing a hardening process on steel products. C. U. Scott & Son, Inc. 565,758–9, Oct. 21; Serial No. 622,460–1, published July 29, 1952.

CLASS 107

Entertainment services. Gregory and House, Inc. 565,754, Oct. 21; Serial No. 604,528, published July 29, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 21ST DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Henriksen, Ernst J. J., Copenhagen, Denmark, assignor to Speed Products Company, Inc., Long Island City, N. Y. Frangible staple. Re. 23,566, Oct. 21.

Sokolik, Edward, New Brighton, Minn. Fishing bobber. Re. 23,567, Oct. 21.

Speed Products Company, Inc., assignee: *See*—
Henriksen, Ernst J. J.

LIST OF PLANT PATENTEES

Boerner, Eugene S., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,140, Oct. 21.

Jackson & Perkins Company, assignee: *See*—
Boerner, Eugene S.
Jordan, Garret L.

Jordan, Garret L., Urbana, Ill., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,139, Oct. 21.

LIST OF DESIGN PATENTEES

Aberney Corporation, assignee: *See*—
Berney, Harold J.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Mack, William.

Auer, Betty, Chicago, Ill. Caster cup or similar article. 167,963, Oct. 21.

Avsco, Incorporated, assignee: *See*—
Ferguson, John E.

Bannister, Harry T., Huntington Woods, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing for automobiles. 167,964, Oct. 21.

Barker Brothers Limited, assignee: *See*—
Wright, Alfred.

Baum, Arthur H., New York, N. Y. Clothes hamper. 167,965, Oct. 21.

Berney, Harold J., Washington, D. C., assignor to Aberney Corporation, Bethesda, Md. Indoor television antenna. 167,966, Oct. 21.

Better Packages, Inc., assignee: *See*—
Krueger, Theodore H.

Boak, Joseph W., assignee: *See*—
Teuber, Max.

Boston Woven Hose and Rubber Company, assignee: *See*—
McKay, Hunter B.

Brown & Bigelow, assignee: *See*—
Woofter, Cecil B.

Buda Company, The, assignee: *See*—
Rideout, John G.

Burnett, Frank R., Downey, I. E. Schmidke, South Gate, and G. Pelletier, Wilmar, Calif.; said Pelletier assignor to said Burnett and Schmidke, jointly. Fishing rod carrier for automobiles. 167,967, Oct. 21.

Camfield Manufacturing Company, assignee: *See*—
Florian, Gordon W.

Candlin, James E., Jr., Flossmoor, assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Vehicle roof. 167,968, Oct. 21.

Chilson, Albert L., Doylestown, Pa. Lady's stocking. 167,969, Oct. 21.

Chrysler Corporation, assignee: *See*—
Bannister, Harry T.
Exner, Virgil M.

Conroy, Edward J., Meriden, Conn. Spoon or other article of flatware. 167,970, Oct. 21.

Costenbader, Wilbert W., Wyomissing, Pa. Game board. 167,971, Oct. 21.

Curry, Cullen L., Mobile, Ala. Canister wall shelf unit. 167,972, Oct. 21.

De Vilbiss Company, The, assignee: *See*—
Sundberg, Carl W.

Doe, Walter P.: *See*—
Fisher, Herman G., Sly, and Doe.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Kahn, Lester R.

Exner, Virgil M., Birmingham, assignor to Chrysler Corporation, Highland Park, Mich. Lens housing for automobile lamps. 167,973, Oct. 21.

Ferguson, John E., Excelsior Springs, assignor to Avsco, Incorporated, Kansas City, Mo. Serving tray for automobiles. 167,974, Oct. 21.

Fisher, Herman G., L. W. Sly, and W. P. Doe, assignors to Fisher-Price Toys, Inc., East Aurora, N. Y. Trundle toy. 167,975, Oct. 21.

Fisher-Price Toys, Inc., assignee: *See*—
Fisher, Herman G., Sly, and Doe.

Florian, Gordon W., Bridgeport, Conn., assignor to Camfield Manufacturing Company, Grand Haven, Mich. Coffee pot. 167,976, Oct. 21.

Francis, Ernest J., Harrisonburg, Va. Box. 167,977, Oct. 21.

Garrard Engineering and Manufacturing Company Limited, The, assignee: *See*—
Slade, Herbert V.

Goldman, Harry M., New Rochelle, N. Y. Shaped textile piece. 167,978, Oct. 21.

Harlan, James M., Lawrenceville, Ill. Clothespin. 167,979, Oct. 21.

Hausfeld, Betty A., Loveland, and C. G. Tooker, Cincinnati, assignors to So-Lo Works Incorporated, Loveland, Ohio. Lady's boot. 167,980, Oct. 21.

Heftler-Louiche, Serge, Paris, France. Atomizer. 167,981, Oct. 21.

Heller, Robert, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa. Carpet. 167,982, Oct. 21.

Heller, Robert, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa. Carpet. 167,983, Oct. 21.

Heller, Robert, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa. Carpet. 167,984, Oct. 21.

Jacoby-Bender, Inc., assignee: *See*—
Krust, Walter.

Jensen, Lee, Chattanooga, Tenn. Rack for supporting a therapeutic compress in a liquid bath. 167,985, Oct. 21.

Jonaitis, Alfred S., New York, N. Y. Tie hanger. 167,986, Oct. 21.

Kahn, Lester R., Jersey City, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Comb or similar article. 167,987, Oct. 21.

Kahn, Lester R., Jersey City, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Comb or similar article. 167,988, Oct. 21.

Krueger, Theodore H., Stratford, Conn., assignor to Better Pakages, Inc. Adhesive tape dispenser or the like. 167,989, Oct. 21.

Krust, Walter, Brooklyn, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 167,990, Oct. 21.

Mack, William, Pittsburgh, Pa., assignor to the United States of America as represented by the Secretary of the Army. Dispensing can. 167,991, Oct. 21.

Malley, Harry K., El Monte, Calif. Game board. 167,992, Oct. 21.

Marmy Products Company, assignee: *See*—
York, Franklyn.

Masland, C. H., & Sons, assignee: *See*—
Heller, Robert.

Maurer, Gwen A.: *See*—
Wood, Preston K., and Maurer.

McGee, Paul D., assignor to Superior Plastics Inc., Chicago, Ill. Rack for condiment holders or similar article. 167,993, Oct. 21.

McKay, Hunter B., Belmont, assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass. Stair tread mat. 167,994, Oct. 21.

Meyerson, Samuel, Brooklyn, N. Y. Expansible bracelet or the like. 167,995, Oct. 21.

Mills Memorial Hospital, assignee: *See*—
Raboli, Marie B.

Oppenheimer, Siegfried L., New York, N. Y. Narrow textile fabric or the like. 167,996, Oct. 21.
Owens, Freeman H., New York, N. Y. Duplex camera. 167,997, Oct. 21.
Pelletier, George: *See*—
Burnett, Frank R., Schmidke, and Pelletier.
Pullman-Standard Car Manufacturing Company, assignee: *See*—
Candlin, James E., Jr.
Quaker Lace Company, assignee: *See*—
Wolf, William.
Raboli, Marie B., assignor of one-half to Mills Memorial Hospital, San Mateo, Calif. Hospital utility stand or similar article. 167,998, Oct. 21.
Rideout, Alice C., administratrix: *See*—
Rideout, John G.
Rideout, John G., deceased, Chagrin Falls, Ohio, by A. C. Rideout, administratrix, assignor to The Buda Company, Harvey, Ill. Industrial truck. 167,999, Oct. 21.
Rosenberg, Edwin C., Milwaukee, Wis. Manually set portable register. 168,000, Oct. 21.
Sachs, Albert, Chicago, Ill. Stool. 168,001, Oct. 21.
Schmidke, Irvin E.: *See*—
Burnett, Frank R., Schmidke, and Pelletier.
Slade, Herbert V., Swindon, England, assignor to The Garrard Engineering and Manufacturing Company Limited. Pickup arm for phonograph. 168,002, Oct. 21.
Sly, Leslie W.: *See*—
Fisher, Herman G., Sly, and Doe.
So-Lo Works Incorporated, assignee: *See*—
Hausfeld, Betty A., and Tooker.
Sundberg, Carl W., Birmingham, Mich.; assignor to The De Vilbiss Company, Toledo, Ohio. Atomizer. 168,003, Oct. 21.
Superior Plastics Inc., assignee: *See*—
McGee, Paul D.
Taylor, Furman F.: *See*—
Wyman, Floyd H., and Taylor.
Teuber, Max, assignor of one-half to J. W. Boak, Los Angeles, Calif. Combination table and television picture projection unit. 168,004, Oct. 21.
Tooker, Charles G.: *See*—
Hausfeld, Betty A., and Tooker.
Variflame Corporation, The, assignee: *See*—
Woodruff, Henry S.
Wiggins, Walter, Jr., Beaver Heights, Md. Automobile. 168,005, Oct. 21.
Wolf, William, assignor to Quaker Lace Company, Philadelphia, Pa. Tablecloth. 168,006, Oct. 21.
Wood, Preston K., Arcadia, and G. A. Maurer, Tujunga, Calif. Display rack. 168,007, Oct. 21.
Woodruff, Henry S., Newark, N. J., assignor to The Variflame Corporation, White Plains, N. Y. Baseboard radiator enclosure. 168,008, Oct. 21.
Woofter, Cecil B., assignor to Brown & Bigelow, St. Paul, Minn. Cigarette lighter. 168,009, Oct. 21.
Wright, Alfred, assignor to Barker Brothers Limited, Stoke-on-Trent, England. Plate. 168,010, Oct. 21.
Wyman, Floyd H., and F. F. Taylor, Westminster, S. C. Roundabout. 168,011, Oct. 21.
York, Franklyn, Plymouth, assignor to Marmy Products Company, Birmingham, Mich. Combined swing seat and supports therefor. 168,012, Oct. 21.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 21ST DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A P Controls Corporation, assignee: *See*—
Biermann, William A.
Abbott, Edward J., deceased, Wilton, N. H., by S. L. Abbott, executor, assignor, by mesne assignments, to Abbott Worsted Mills, Incorporated, Wilton, N. H. Bobbin holder. 2,614,759, Oct. 21.
Abbott, Maurice H., Chicago, Ill. Disposable sandal of paper or the like. 2,614,341, Oct. 21.
Abbott, Olney J., Jr.: *See*—
Welte, Benedict, and Abbott.
Abbott, Samuel L., executor: *See*—
Abbott, Edward J.
Abbott Worsted Mills, Incorporated, assignee: *See*—
Abbott, Edward J.
Abraham, Clyde T.: *See*—
Galbraith, William G., Williams, and Abraham.
Ackerman, Charles, Hackensack, N. J. Safety razor. 2,614,321, Oct. 21.
Acme Steel Company, assignee: *See*—
Crim, Elmo P.
Actiengesellschaft Joh. Jacob Rieter & Cie, assignee: *See*—
Hoffmann, Walter.
Adams, Charles A., Davenport, Iowa. Ball bearing. 2,614,898, Oct. 21.
Adams, Frederick J., Philadelphia, Pa. Combination chum pot, bottom sounder, and bait bucket. 2,614,358, Oct. 21.
Adams Rite Manufacturing Company, assignee: *See*—
Grizzard, Earle D., Colar, and Mitchell.
Adler, Robert, Chicago, Ill., assignor to Zenith Radio Corporation. Deflection control electron discharge device. 2,615,142, Oct. 21.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Graham, Robert P., Thompson, and Shepherd.
Aircraft Hardware Mfg. Co. Inc., assignee: *See*—
Mazzei, Oswald.
Aircraft Radio Corporation, assignee: *See*—
Farnham, Paul O.
Air Preheater Corporation, The, assignee: *See*—
Peterson, David G.
Air Reduction Company, Inc., assignee: *See*—
Miller, Hoke S.
Airspeed Limited, assignee: *See*—
Clarke, William H. V., and Parramore.
Aktiebolaget Tudor, assignee: *See*—
Brandt, Gustaf E.
Aldinger, Ulrich: *See*—
Volt, Willy, and Aldinger.
Aldred, John L., Jr.: *See*—
Wilfley, Elmer R., and Aldred.
Alldredge, Marshall H., Detroit, and M. P. Graham, Grosse Pointe, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Steering linkage. 2,614,862, Oct. 21.
Allen, Charles F. H.: *See*—
Ballard, Albert E., Zuehlke, and Allen.
Allen, Herbert, assignor to Cameron Iron Works Inc., Houston, Tex. Mechanical advantage operator. 2,614,520, Oct. 21.
Allen, Herbert, assignor to Cameron Iron Works, Houston, Tex. Flow control unit. 2,614,795, Oct. 21.
Allen, Ivey, Jr., W. R. Marshall, Bloomfield, N. J., and G. E. Wightman, Newburgh, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Continuous polymerizing apparatus. 2,614,910, Oct. 21.
Aller, Willis F.: *See*—
Polk, Louis F., and Aller.
Alley, Henry G., Jr., Colonial Heights, Va. Cargo tester which simulates ship's motion. 2,614,413, Oct. 21.
Allied Chemical & Dye Corporation, assignee: *See*—
Farrell, James K.
Allied Laboratories, Inc., assignee: *See*—
Faith, Herman E.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Norelius, Emil F.
Ray, James L.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Rydbeck, Gösta.
Almorth, Gustav A., Higganum, Conn. Protractor. 2,614,329, Oct. 21.
Aluminum Company of America, assignee: *See*—
Wheeler, Edward M.
American Box Board Company, assignee: *See*—
Anderson, Wilbur G., Jr., and Kohlhepp.
American Cyanamid Company, assignee: *See*—
Cresswell, Arthur, and Wizon.
Erickson, John G.
Hook, Edwin O., and Moss.
Kaiser, Donald W., and Hopper.
Klapproth, William J., Jr.
Lane, Leslie C.
Marsh, Nat H.
Suen, Tzeng J., and Schiller.
American Hardware Corporation, The, assignee: *See*—
McConnell, Frank.
American Locomotive Company, assignee: *See*—
Nichols, William M.
Vaughn, Paul S.
American Optical Company, assignee: *See*—
Critoph, David I.
Critoph, David I., Herrmann, and Wolford
Ellis, Charles A.
Ellis, Charles A., and Cole.
Gile, Richard M.
American Pipe and Construction Co., assignee: *See*—
Rankin, Donald H., and Little.
American Telephone and Telegraph Company, assignee: *See*—
Clos, Charles.
American Viscose Corporation, assignee: *See*—
Anglada, Joseph A.
Ammerall, Albert J., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Tension device. 2,614,773, Oct. 21.
Amsler, Alfred J., & Co., assignee: *See*—
Falk, Olaf.
Anderson Company, The, assignee: *See*—
Smulski, Theodore J.
Anderson, James H., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Intermittent explosion unit for gas turbine plants. 2,614,387, Oct. 21.
Anderson, Wilbur G., Jr., and H. R. Kohlhepp, assignors to American Box Board Company, Grand Rapids, Mich. Moisture collecting device. 2,614,883, Oct. 21.
Anderson, William H., Stockton, Calif. Hopper door unit and material spreader assembly for airplanes. 2,614,733, Oct. 21.
Andres, Lloyd J., Itasca, assignor to H. C. Evans & Co., Chicago, Ill. Electric control for phonographs. 2,614,674, Oct. 21.
Anglada, Joseph A., White Plains, N. Y., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Heat-sealing element. 2,614,953, Oct. 21.
Anglo-Iranian Oil Company Limited, assignee: *See*—
Birch, Stanley F., Fidler, and Dean.
Annicq, Joseph, Renaix, Belgium. Porous resilient bobbin. 2,614,764, Oct. 21.
Apex Electrical Manufacturing Co., The, assignee: *See*—
Kirby, James B.
Apple, Lee S., Syracuse, N. Y., assignor to General Electric Company. Dynamic braking system. 2,615,152, Oct. 21.
Archambault, Jean M., Asnieres, France. Railway vehicle axle mounting. 2,614,508, Oct. 21.
Ardussi, Wallace F., Rocky River, Ohio, assignor to Hupp Corporation, formerly Hupp Motor Car Corporation, Detroit, Mich. Seat supporting structure. 2,614,608, Oct. 21.
Arengo-Jones, Rhys W., Toronto, Ontario, Canada, assignor to Food Machinery and Chemical Corporation. Seed celling machine. 2,614,593, Oct. 21.
Arnacost, Wilbur H., Searsdale, and D. M. Schoenfeld, New York, N. Y., assignors, by mesne assignments, to Combustion Engineering-Superheater, Inc. High temperature fluid heater. 2,614,541, Oct. 21.
Armco Steel Corporation, assignee: *See*—
Tanczyn, Harry.
Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.
Danisch, Marion S.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Mankowich, Abraham.
Arp, Ewald A., assignor to Tobin-Arp Manufacturing Company, Minneapolis, Minn. Machine for boring connecting rods. 2,614,442, Oct. 21.
Arps, Edmund J., Oshkosh, Wis., assignor, by mesne assignments, to Maxim Motor Company, Middleboro, Mass. Turntable control means for aerial ladders. 2,614,743, Oct. 21.

Artis, Samuel W., Jr., Boise, Idaho. Roof jack. 2,614,867, Oct. 21.

Artz, Neal E., and W. Hach, Oak Park, Ill., assignors to Corn Products Refining Company, New York, N. Y. Refining crude inositol-containing solutions and for recovering inositol therefrom. 2,615,053, Oct. 21.

Asaro, Vito, assignor to L. A. Young Spring and Wire Corporation, Detroit, Mich. Spring cushion assembly. 2,614,615, Oct. 21.

Ashlock, George W., Jr., Oakland, Calif. Case hardened rubber pitting chuck. 2,614,594, Oct. 21.

Associated Engineers, Inc., assignee: *See*—
Broyles, Otis T.

Aston, John G., and S. V. R. Mastrangelo, State College, Pa., assignors to Phillips Petroleum Company. Fractional fusion apparatus. 2,614,909, Oct. 21.

Attorney General of the United States, vested in the, : *See*—
Een, Johannes B.

Automatic Electric Laboratories, Inc., assignee: *See*—
Graybill, Kenneth W., and Sengebusch.
Lomax, Clarence E.
Mitchell, Len B.
Mullerheim, Kurt.

Axtell, Delbert O., West Palm Beach, Fla. Louver construction. 2,614,301, Oct. 21.

Bacca, Charles R., Newtown, Ohio. Electric control for trailer brakes. 2,615,103, Oct. 21.

Baier, John F., assignor to Arthur G. McKee & Co., Cleveland, Ohio. Revolving distributor. 2,614,709, Oct. 21.

Bailey, Edward A.: *See*—
Schulz, Edward L., and Bailey.

Baker, Dorr S., Little Falls Township, Passaic County, N. J. Screw and centrifugal pump. 2,614,501, Oct. 21.

Ball Brothers Company, assignee: *See*—
Pasotti, Felice G.

Ballard, Albert E., C. W. Zuehlke, and C. F. H. Allen, assignors to Eastman Kodak Company, Rochester, N. Y. Temperature indicating device. 2,614,430, Oct. 21.

Balthis, Joseph H., Mendenhall, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of silica sols from finely divided silicon. 2,614,994, Oct. 21.

Balthis, Joseph H., Mendenhall, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Silica sols and preparation thereof from metallic silicon. 2,614,995, Oct. 21.

Barker Poultry Equipment Co., assignee: *See*—
Crane, Edward:
Crane, Edward J.

Barkstrom, Elmer E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Grooving machine. 2,614,463, Oct. 21.

Barnard, John D., and A. Leverson, Le Sueur, Minn., assignors to Green Giant Company. Corn harvester. 2,614,378, Oct. 21.

Barnes, James G., Rockville Centre, N. Y., assignors to Bemis Bro. Bag Company, St. Louis, Mo. Detachable-label bag. 2,614,349, Oct. 21.

Barnes-Shasta Pump Co., assignee: *See*—
Piccardo, Jack E.

Barney, Mortimer D. and R. I., and E. A. Jordan, Prineville, Oreg. Lumber unstacking and distributing apparatus. 2,614,706, Oct. 21.

Barney, Robert I.: *See*—
Barney, Mortimer D. and R. I., and Jordan.

Barvitius, František, Prague, assignor of one-half to Metra, narodni podnik, Blansko, Czechoslovakia. Autographic recorder. 2,614,902, Oct. 21.

Battle Creek Bread Wrapping Machine Company, assignee: *See*—
Smith, John W.

Batty, Bernard, Indianapolis, Ind. Smoker's pipe. 2,614,568, Oct. 21.

Baur, Fredric J., Wyoming, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Mixed triglycerides. 2,615,160, Oct. 21.

Baur, Fredric J., Wyoming, and W. Lange, assignors to The Procter & Gamble Company, Cincinnati, Ohio. Plastic shortenings and producing same. 2,614,937, Oct. 21.

Bean, Fremond F., Grand Ronde, Oreg. Hydraulic reach tightener. 2,614,864, Oct. 21.

Beaupre, Merle A., Santa Monica, Calif., assignor to North American Aviation, Inc. Spinner seal and fairing. 2,614,638, Oct. 21.

Bebinger, Charles N., New Philadelphia, Ohio, assignor to Joy Manufacturing Company. Guide for oscillatory loading head. 2,614,677, Oct. 21.

Bechberger, Paul F., Tenafly, and J. D. Peterson, Ridgewood, assignors to Bendix Aviation Corporation, Teterboro, N. J. Engine synchronization means. 2,614,392, Oct. 21.

Beerbower, Alan, Baltimore, Md., and A. J. Morway, Clark, N. J., assignors to Standard Oil Development Company. Greases based on finely divided inorganic material. 2,614,986, Oct. 21.

Beh and Company, assignee: *See*—
Buser, Charles.

Bell, Charles C., Warwick, assignor to Universal Winding Co., Cranston, R. I. Bobbin hanger. 2,614,758, Oct. 21.

Bell, Louis A., St. Louis, Mo. Utility rack. 2,614,698, Oct. 21.

Bemis Bro., Bag Company, assignee: *See*—
Barnes, James G.

Bemmels, Cyrus W., New Brunswick, N. J., assignor to Industrial Tape Corporation. Stabilized rubber adhesive. 2,615,059, Oct. 21.

Bendix Aviation Corporation, assignee: *See*—
Bechberger, Paul F., and Peterson.
Hosford, Norman F.
Livers, Carlos B.
Noxon, Paul A.
Rossire, Francis H. S.
Stamper, Hamilton A., Blackman, and Nelson.
Zito, George V.

Benian, Souren, Detroit, Mich. Bumper guard. 2,614,877, Oct. 21.

Bennett, Frank: *See*—
Hallowell, Howard T., Jr., and Bennett.

Berchem, Hubert C., Jr., White Bear, Minn., and H. F. Pierce, Detroit, Mich. Method and apparatus for lifting concrete products. 2,614,880, Oct. 21.

Bergstrom, Eric V.: *See*—
Penick, Joe, and Bergstrom.

Berkemeyer, Robert, Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heater apparatus. 2,614,823, Oct. 21.

Berreau, Thomas O.: *See*—
Roell, William J., and Berreau.

Berry, Frank, Corinth, Miss., assignor, by mesne assignments, to Oliver Iron and Steel Corporation, Pittsburgh, Pa. Multicylinder rotary abutment hydraulic power converter. 2,614,503, Oct. 21.

Berry, Roger W., Princeton, Ill. Egg separator with thumb operable yolk trap. 2,614,592, Oct. 21.

Beyer, Frank A., R. A. Bradley, and H. W. Crank, Springfield, Mo., assignors, by mesne assignments, to Trailmobile Inc. Insulated tank vehicle. 2,614,856, Oct. 21.

Bickley, Everett H., Narberth, Pa. Apparatus for use in making lantern slides. 2,614,950, Oct. 21.

Biermann, William A., Milwaukee, Wis., assignor to A P Controls Corporation. Viscosity compensating liquid control device. 2,614,577, Oct. 21.

Bierra, Antone N., Honolulu, Hawaii. Disinfecting device. 2,614,265, Oct. 21.

Bilterman, Henry L., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conveyer apparatus. 2,614,707, Oct. 21.

Binaut, Jean, Lewarde (Nord), assignor to Houilleres du Bassin du Nord et du Pas de Calais, Douai (Nord), France. Articulated ramp structure for mine cars. 2,614,755, Oct. 21.

Birch, Stanley F., F. A. Fidler, and R. A. Dean, Sunbury-on-Thames, assignors to Anglo-Iranian Oil Company Limited, London, England. Recovery of xylidines. 2,615,047, Oct. 21.

Blackman, Birt G: *See*—
Stamper, Hamilton A., Blackman, and Nelson.

Bleibtreu, Hermann, Hinsdale, Ill., assignor to Joanna-Western Mills Company. Shade roller. 2,614,629, Oct. 21.

Bluemmel, Francis P., Westfield, and L. D. Lytle, Plainfield, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Producing noncrystallizing copper phthalocyanine. 2,615,027, Oct. 21.

Bobier, Wilfred S., Jr., Grosse Pointe, Mich., assignor to G. M. and E. Holley. Emergency fuel control. 2,614,617, Oct. 21.

Böcher, Hermann, Colgne-Kalk, Germany. Wire reeling apparatus. 2,614,766, Oct. 21.

Bola Toys Incorporated, assignee: *See*—
Bowditch, Hoel L.

Bone, Arnold R., Needham, assignor to Dennison Manufacturing Company, Framingham, Mass. Chip remover for tag notching machines. 2,614,631, Oct. 21.

Bonotto, Michele, Princeton, N. J. Countercurrent extraction process and apparatus. 2,614,911, Oct. 21.

Booth, George P., Dobbs Ferry, N. Y., and L. M. Smith, North Bergen, N. J., assignors to Interborough News Company, New York, N. Y. Coin handling means for coin controlled vending machines. 2,614,675, Oct. 21.

Booth, James H., Venice, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Ball joint. 2,614,873, Oct. 21.

Borberg, Willy: *See*—
Heidegger, Henry, and Borberg.

Bordwell, Lavern, assignor to United Royalties Corporation, New York, N. Y. Beater. 2,614,818, Oct. 21.

Borngraeber, Royce R.: *See*—
Hyland, William A., and Borngraeber.

Bosch, Robert, G. m. b. H., assignee: *See*—
Voit, Willy, and Aldinger.

Bowditch, Hoel L., Jamaica Plain, Mass., assignor to Bola Toys Incorporated, Greenwich, Conn. Movable reflecting toy. 2,614,363, Oct. 21.

Bowen, Charles E.: *See*—
Wood, William, and Bowen.

Bowers, W. L., assignee: *See*—
Brock, Hinton D.

Boydjieff, Stephen P., Reading, Pa. Air perfuming device. 2,614,820, Oct. 21.

Bradley, Harris W., Bellefonte Heights, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Sulfonamides formed by amidation of chlorosulfonated polyethylene. 2,615,000, Oct. 21.

Bradley, Ralph A.: *See*—
Beyer, Frank A., Bradley, and Crank.

Brady, James M., West Long Branch, N. J. Mercurial minimum thermometer. 2,614,431, Oct. 21.

Brandt, Francis L., Glen Rock, assignor of one-half to W. C. Hand, Mountainside, N. J. Heel and shank lock for shoes. 2,614,343, Oct. 21.

Brandt, Gustaf E., Nol, assignor to Aktiebolaget Tudor, Stockholm, Sweden. Battery plate. 2,615,061, Oct. 21.

Braun, Rudolf M., New York, N. Y. Psychrometer. 2,614,428, Oct. 21.

Breler, Marcus, assignor to Marcus Breler Sons, Inc., Amsterdam, N. Y. Garment construction. 2,614,258, Oct. 21.

Breler, Marcus, Sons, Inc., assignee: *See*—
Breler, Marcus.

Bridges, John H., Fairburn, Ga., assignor to National Inventions Corporation. Luminescent tube system and apparatus. 2,615,067, Oct. 21.

Bridgewater Machine Tool Co., The, assignee: *See*—
Kiehl, Arthur H.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Marchant, Francis C. I., and Lewis.

Britcher, Charles W., Glen Ridge, N. J., assignor to Craig Corporation. Dry spray equipment. 2,614,528, Oct. 21.

British Tricolour Processes Limited, assignee: *See*—
Coote, Jack H., and Murray.

Brock, Enes H., assignee: *See*—
Brock, Hinton D.

Brock, Hinton D., Cocoa, Fla., assignor of one-quarter to E. H. Brock, Gulfport, Miss., and ten percent to W. L. Bowers, Cocoa, Fla. Pivot for plier type tools. 2,614,894, Oct. 21.

Brodie, George R., Lower Merion Township, Montgomery County, Pa., assignor to Fred'k H. Levey Co., Inc., New York, N. Y. Method of and apparatus for printing. 2,614,492, Oct. 21.

Brodie, George R., Lower Merion Township, Montgomery County, Pa., assignor to Fred'k H. Levey Co., Inc., New York, N. Y. Printing. 2,614,493, Oct. 21.

Broh, Joshua, East Chicago, Ill. Traction device for vehicle wheels. 2,614,601, Oct. 21.

Broiler Equipment Company, assignee: *See*—
Futterer, Wolfram A.

Bronovicki, Adam A., Bayonne, N. J., assignor to General Cable Corporation, New York, N. Y. Cable pulling eye and making the same. 2,615,074, Oct. 21.

Brooks, Benjamin T., Old Greenwich, Conn., assignor to The Glycerine Corporation of America, Inc., New York, N. Y. Producing glycerine. 2,614,964, Oct. 21.

Broughton, Geoffrey and R. N. Woodward, assignors to Eastman Kodak Company, Rochester, N. Y. Rapid processing of photographic materials. 2,614,927, Oct. 21.

Brown, Clarence J., Los Alamos, N. Mex., assignor to the United States of America as represented by the United States Atomic Energy Commission. Current measuring device. 2,615,063, Oct. 21.

Brown, William C., Lincoln, assignor to Raytheon Manufacturing Company, Newton, Mass. Magnetron electron discharge device. 2,615,143, Oct. 21.

Browning, Val A., Ogden, Utah. Latch for pivoted locking bolts for repeating firearms. 2,614,462, Oct. 21.

Broyles, Otis T., assignor to Associated Engineers, Inc., Houston, Tex. Bushing inserting tool. 2,614,633, Oct. 21.

Bruce, Cyril G.: *See*—
Molins, Desmond W., Ruau, Jackson, and Bruce.

Bruce, Donald S.: *See*—
Havemann, Robert A., Bruce, and MacRae.

Brunetti, Leonello, Mountain View, Calif. Amalgamator. 2,614,693, Oct. 21.

Bryant, Edwin E., assignor to Nelson Muffler Corporation, Stoughton, Wis. Muffler with a plurality of expansion chambers. 2,614,647, Oct. 21.

Budd Company, The, assignee: *See*—
Eksergian, Carolus L.
Watter, Michael.

Buff, William J., Monmouth Beach, N. J. Surveying instrument tripod head. 2,614,780, Oct. 21.

Builders Iron Foundry, assignee: *See*—
Thoresen, John C.

Buivid, Michel D., Milford, assignor to United Aircraft Corporation, East Hartford, Conn. Rotor blade support. 2,614,640, Oct. 21.

Bullock, Edgar Q., Jr., and F. J. Emig, Chicago, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Abrasion resistant wire enamels. 2,615,001, Oct. 21.

Burcham, Walter E., Elkin, N. C. Thread supporting means for shuttles. 2,614,587, Oct. 21.

Burkard, Victor, Barton, and D. J. Shepherd, Buffalo, N. Y., said Shepherd assignor to said Burkard. Block molding machine. 2,614,308, Oct. 21.

Burkett, Wilford B.: *See*—
Kircher, Ralph N., and Burkett.

Burrows, Godfrey, Sale, assignor to Metropolitan-Vickers Electrical Company Limited, London, England. Short path fractionating stills. 2,614,973, Oct. 21.

Burton, William P., Orange, assignor to The M. W. Kellogg Company, Jersey City, N. J. Dehydration of alcohols. 2,614,971, Oct. 21.

Buser, Charles, Auburn, assignor to Beh and Company, New York, N. Y. Adjustable leg construction for ironing boards. 2,614,348, Oct. 21.

Bushong, Helen W., Lima, Ohio. Portable foldable leg rest. 2,614,613, Oct. 21.

Cain, Robert M., assignor to Wilcox-Gay Corporation, Charlotte, Mich. Automatic voice recorder. 2,614,846, Oct. 21.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Solutions of polyamides. 2,614,999, Oct. 21.

Caldwell, Joseph A., and M. L. Lytle, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Prevention of corrosion in wells. 2,614,982, Oct. 21.

Caldwell, Joseph A., and M. L. Lytle, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Prevention of corrosion in wells. 2,614,983, Oct. 21.

California Research Corporation, assignee: *See*—
Dreher, John L., and Carter.

California Test Bureau, assignee: *See*—
Clark, Ethel M.

Calkins, Dwight L., assignor to Calkins Manufacturing Company, Spokane, Wash. Revolving spring tooth harrow. 2,614,375, Oct. 21.

Calkins Manufacturing Company, assignee: *See*—
Calkins, Dwight L.

Cameron Iron Works, assignee: *See*—
Allen, Herbert.

Cameron Iron Works Inc., assignee: *See*—
Allen, Herbert.

Camisa, George, and G. E. Hecker, Brooklyn, N. Y.; said Hecker assignor to said Camisa. Ambulatory commode vehicle. 2,614,610, Oct. 21.

Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Spool and drive therefor. 2,614,761, Oct. 21.

Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Device for increasing the effectiveness of the transducing field of a magnetic head. 2,615,097, Oct. 21.

Caparone, Michael J., Arcadia, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Thermostatic control device. 2,614,754, Oct. 21.

Carandell Marimón, Juan, assignor to F. B. Faidella, Barcelona, Spain. Manufacturing and repairing roofs of railway wagons and similar vehicles. 2,614,509, Oct. 21.

Carbone, James H., Baldwin, N. Y. Fluid flow orifice structure. 2,614,423, Oct. 21.

Carborundum Company, The, assignee: *See*—
Heyroth, Albert H.
Proudfoot, Charles B.

Carey-McFall Company, assignee: *See*—
Di Ienno, John J.
Stuber, Walter J., and Di Ienno.

Carlisle, Charles H., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Apparatus for drilling under water. 2,614,804, Oct. 21.

Carlson, Carl S.: *See*—
Morrell, Charles E., Stewart, and Carlson.

Caron, Louis D., Jr., and W. J. Hoenecke, assignors to Terminal Packaging Company, Milwaukee, Wis. Weighing and packaging machine. 2,614,786, Oct. 21.

Carpenter, Oliver W., Lakewood, Colo. Drinking rim for beer cans. 2,614,406, Oct. 21.

Carrier Corporation, assignee: *See*—
Christensen, Sabinus H.
Macrow, Lawrence.
McGrath, William L.
Schulz, Edward L., and Bailey.
Swart, Richard H.

Carroll, Burt H., and F. A. Richey, assignors to Eastman Kodak Company, Rochester, N. Y. Mercapto azoles in developer for mixed grain photographic process. 2,614,925, Oct. 21.

Carter, Crawford F.: *See*—
Dreher, John L., and Carter.

Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Antenna. 2,615,134, Oct. 21.

Carter, William H., Portland, Maine. Vessel raising apparatus. 2,614,518, Oct. 21.

Cartier, Sarah L., assignee: *See*—
Perri, Frank B.

Caruso, Philip A., San Carlos, assignor of one-half to D. Snow, South San Francisco, Calif. Retainer for vegetables and like products while cooking the same. 2,614,484, Oct. 21.

Case, J. I., Company, assignee: *See*—
Clausen, Leon R.

Castedello, William: *See*—
Schwartz, Morris, and Castedello.

Caswell, Arthur S., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Sliding bolt rack mechanism. 2,615,101, Oct. 21.

Caterpillar Tractor Co., assignee: *See*—
Gustafson, Carl A.
Riegel, Glen C.

Cederholm, Carl I., South Worthington, Mass. Measuring instrument. 2,614,330, Oct. 21.

Celanese Corporation of America, assignee: *See*—
Ewing, Henry, and Mellor.
Thomas, Edward B., and Oxley.

Chadwick, Lee S., Shaker Heights, E. W. Cheeseman, Lakewood, and A. R. Moore, assignors to Perfection Stove Company, Cleveland, Ohio. Air and fuel supply means for liquid fuel burners of the bowl type. 2,614,618, Oct. 21.

Chain Belt Company, assignee: *See*—
Longenecker, Charles I.

Chambers Corporation, assignee: *See*—
Chambers, John E.

Chambers, John E., Shelbyville, Ind., assignor to Chambers Corporation. Top burner for gas ranges. 2,614,620, Oct. 21.

Chandler, Milton E., New Britain, and S. F. Hunt, Meriden, assignors to Niles-Bement-Pond Company, West Hartford, Conn. Dehydrator plug. 2,614,650, Oct. 21.

Chandler, Rex O., Ceredo, W. Va. Tire, wheel, and hub-cap lock. 2,614,889, Oct. 21.

Chapel, William F., assignee: *See*—
Sinkwitz, Joseph C., and Szpur.

Chasar, Anthony R., assignor to The Oster Manufacturing Company, Cleveland, Ohio. Machine tool. 2,614,435, Oct. 21.

Chase National Bank of the City of New York, The, executor: *See*—
Gilbert, Charles E.

Chavannes, Marc A., New York, N. Y., assignor, by mesne assignments, to Chavannes Synthetic Fibres, Inc. Apparatus and method for producing thermoplastic fibers. 2,614,288, Oct. 21.

Chavannes Synthetic Fibres, Inc., assignee: *See*—
Chavannes, Marc A.

Cheeseman, Evans W.: *See*—
Chadwick, Lee S., Cheeseman, and Moore.

Cheesman, John J., Gerrards Cross, England, assignor, by mesne assignments, to General Strapping Corporation, New York, N. Y. Package binding machine. 2,614,487, Oct. 21.

Cherewick, Frederick J., Vancouver, British Columbia, Canada. Air flow conveyer. 2,614,852, Oct. 21.

Chester, Allan E., Highland Park, assignor to Poor & Company, Chicago, Ill. Electroplating of zinc and electrolyte therefor. 2,614,975, Oct. 21.

Chester, Allan E., Highland Park, assignor to Poor & Company, Chicago, Ill. Reaction product of thiourea, an aldonic acid and zinc oxide. 2,615,030, Oct. 21.

Chiego, Bernard, Newark, N. J., assignor of ten per cent to F. Gardner, Baltimore, Md., and eighty per cent to A. D. T. Libby, Newark, N. J. Composition for fabricating paper and making it. 2,614,924, Oct. 21.

Christensen, Sabinus H., Boston, Mass., assignor to Carrier Corporation, Syracuse, N. Y. Gaseous flow regulator. 2,614,747, Oct. 21.

Citso, Steven J., Chicago, Ill. Detachable handle for shovels or the like. 2,614,879, Oct. 21.

Claessen, Wilhelmus H. L., Edinhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric discharge tube containing an alkaline metal. 2,615,140, Oct. 14.

Clark, Carleton L., North Tarrytown, and C. Vicario, New York, assignors to The Rotareaed Corporation, Bronxville, N. Y. Deaerating a suspension of paper-making stock. 2,614,656, Oct. 21.

Clark Equipment Company, assignee: *See*—
Eaton, Ernest E.

Clark, Ethel M., Los Angeles, Calif., assignor to California Test Bureau. Self-scoring test device. 2,614,338, Oct. 21.

Clark, Horace E., Atlanta, Ga. Alley sweep for textile mills. 2,614,281, Oct. 21.

Clark, James T., assignee: *See*—
Riordan, John A.

Clark, William H. V., Bournemouth, and T. S. Parramore, West Malling, assignors to Airspeed Limited, Portsmouth, England. Recording instrument and equipment. 2,614,900, Oct. 21.

Clausen, Leon R., assignor to J. I. Case Company, Racine, Wis. Power take-off coupling. 2,614,405, Oct. 21.

Clayton, Mark, & Co., assignee: *See*—
Peach, William H., and Malm.

Clemens, Milton L., Jr.: *See*—
Von Bramer, Harold, and Clemens.

Clements Mfg. Co., assignee: *See*—
Thornwald, Everett D.

Clinton, Raymond O., Rensselaer County, and S. C. Laskowski, Albany County, assignors to Sterling Drug Inc., New York, N. Y. Basic esters and amides of 7-substituted-coumarin-4-acetic acids and salts and preparation. 2,615,024, Oct. 21.

Clos, Charles, Middle Village, N. Y., assignor to American Telephone and Telegraph Company. Apparatus for recording numerals in code. 2,614,632, Oct. 21.

Cloud, Raymond T., assignor to North American Geophysical Company, Houston, Tex. Gravity meter. 2,614,432, Oct. 21.

Coates, Norman, executor: *See*—
Gilbert, Charles E.

Coats, Dallas R.: *See*—
Coats, Raymond C. and D. R.

Coats, Raymond C. and D. R., Effingham, Ill. Automatic intermittent feed-and-cut machine for sawing firewood. 2,614,589, Oct. 21.

Cockrell, Sanford C., Washington, D. C., and F. F. Glasgow, Wilmington, Del. Torque measuring device. 2,614,417, Oct. 21.

Coffey, Guy W., Florence, Ky. Can flattener. 2,614,604, Oct. 21.

Colburn, Richard R., Waterloo, Iowa. Concrete gun. 2,614,891, Oct. 21.

Colby, Fred, Beaumont, Tex. Electric oil well heater. 2,615,114, Oct. 21.

Cole, Henry B.: *See*—
Ellis, Charles A., and Cole.

Coleman Company, Inc., The, assignee: *See*—
Giwosky, Harry L.

Coleman, John H., Princeton, N. J., assignor to Radio Corporation of America. Gas rectifier tube employing magnetic field. 2,615,139, Oct. 21.

Collar, Frank R.: *See*—
Grizzard, Earle D., Collar, and Mitchell.

Colonial Broach Company, assignee: *See*—
Welte, Benedict, and Abbott.

Combustion Engineering-Superheater, Inc., assignee: *See*—
Armacost, Wilbur H., and Schoenfeld.
Patterson, Ward S., and Powell.

Comey, R. H., Company, Inc., assignee: *See*—
Hope, Henry B.

Cone Automatic Machine Company Inc., assignee: *See*—
Miller, Carroll E.

Conlon-Moore Corporation, assignee: *See*—
Freis, Frederick M.

Connors, George H., assignors to Highway Trailer Company, Edgerton, Wis. Hole boring machine. 2,614,806, Oct. 21.

Conso Fastener Corporation, assignee: *See*—
Erhardt, William A., Jr.

Container Corporation of America, assignee: *See*—
Parker, George H.

Continental Oil Company, assignee: *See*—
Hersh, Joseph M.

Cook, David L., El Cerrito, assignor to Shell Development Company, Emeryville, Calif. Lubricating composition containing boric acid. 2,614,985, Oct. 21.

Cook, Gerhard A., Snyder, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Production and recovery of hydrogen peroxide. 2,614,907, Oct. 21.

Cook, Harvey A., University Heights, Ohio. Self-propelled vehicle having super-imposed noncollapsible occupant compartment. 2,614,882, Oct. 21.

Coombs, Forrest D., Westwood, Mass. Illuminated level. 2,615,122, Oct. 21.

Cooper-Hewitt Electric Company, assignee: *See*—
Macksoud, Michel E.

Coote, Jack H., Teddington, and G. Murray, Thames Ditton, assignors to British Tricolour Processes Limited, London, England. Light-dividing system. 2,614,452, Oct. 21.

Coover, Harry W., Jr.: *See*—
Dickey, Joseph B., and Coover.

Coplen, Milo G., Rockville, Md. Tree mover. 2,614,705, Oct. 21.

Cormier, Gerard A., assignor to Jones & Lamson Machine Company, Springfield, Vt. Unloading valve. 2,614,580, Oct. 21.

Corn Products Refining Company, assignee: *See*—
Artz, Neal E., and Hach.

Corson, Ben B., and G. A. Webb, Pittsburgh, Pa., assignors to Koppers Company, Inc. Preparation of a surficially calcined natural carbonate catalyst. 2,614,996, Oct. 21

Cowles, Ellsworth C., Corning, assignor to Ingersoll-Rand Company, New York, N. Y. Combined compressor and engine. 2,614,497, Oct. 21.

Cox, Ernest L., and J. W. Guice, assignors to Wilson Stove and Manufacturing Company, Inc., Metropolis, Ill. Magazine heater. 2,614,553, Oct. 21.

Cox, Warren E., New York, N. Y. Illuminating system for paintings and the like. 2,615,121, Oct. 21.

Coyle, Francis S., Paonia, Colo., assignor of fifty per cent to W. P. Coyle, Eagleville, Mo. Reversible hydraulic jack. 2,614,389, Oct. 21.

Coyle, Wendell P., assignee: *See*—
Coyle, Francis S.

Craig Corporation, assignee: *See*—
Britcher, Charles W.

Craig, Palmer H., Coral Gables, Fla. Storage battery cap with gas recombining means. 2,615,062, Oct. 21.

Craigon, Adam: *See*—
Margison, Arthur D., and Craigon.

Crane Co., assignee: *See*—
Trefil, James.

Crane, Edward, assignor to Barker Poultry Equipment Co., Ottumwa, Iowa. Recirculation filter. 2,614,696, Oct. 21.

Crane, Edward J., assignor to Barker Poultry Equipment Co., Ottumwa, Iowa. Poultry shackle. 2,614,287, Oct. 21.

Crank, Harry W.: *See*—
Beyer, Frank A., Bradley, and Crank.

Cresswell, Arthur, Stamford, and I. Wizon, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y. Fiber-forming apparatus. 2,614,289, Oct. 21.

Crim, Elmo P., Evergreen Park, assignor to Acme Steel Company, Chicago, Ill. Stitching machine. 2,614,253, Oct. 21.

Critoph, David I., Lancaster, N. Y., assignor to American Optical Company, Southbridge, Mass. Electrical control means for driving mechanisms. 2,615,148, Oct. 21.

Critoph, David I., Snyder, J. F. Herrmann, Cheektowaga, N. Y., and F. H. Wolford, Albuquerque, N. Mex., assignors to American Optical Company, Southbridge, Mass. Film projector housing construction. 2,614,458, Oct. 21.

Crockett, Thomas E., Corpus Christi, Tex., assignor, by mesne assignments, to Crockett Valve Corporation, Los Angeles, Calif. Float operated valve. 2,614,579, Oct. 21.

Crockett Valve Corporation, assignee: *See*—
Crockett, Thomas E.

Crump, Elmo E.: *See*—
Foster, Harry R., and Crump.

Cuckler, David E., Monticello, Iowa. Portable power unit. 2,614,433, Oct. 21.

Culkosky, Martin, Gary, Ind. Apparatus for measuring and adjusting the spring pressure on commutator brushes. 2,614,421, Oct. 21.

Cupp, Charles D.: *See*—
Koester, Norman C., and Cupp.

Curtis, John C., Claremont, N. H., assignor to Joy Manufacturing Company. Rock drilling apparatus. 2,614,807, Oct. 21.

Curtis, John C., Claremont, N. H., and E. E. Miller, El Paso, Tex., assignors to Joy Manufacturing Company, Pittsburgh, Pa. Rock drilling apparatus. 2,614,808, Oct. 21.

Cuthbert, William L., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Document feeding device. 2,614,837, Oct. 21.

Daily, Edward H., Michigan City, Ind., and W. E. Schmidt, Chicago, Ill. Automatic rotating descaler for wheel blocks or the like. 2,614,316, Oct. 21.

Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Wire recorder. 2,614,845, Oct. 21.

Dance, James O., assignee: *See*—
Dance William H.

Dance, William H., assignor to J. O. Dance, Cambridge, Mass. Mechanical pointing device. 2,614,412, Oct. 21.

Daniels, Herbert E., Orange, N. J., assignor to The Jampol Company, Inc., Brooklyn, N. Y. Control apparatus for conveyer systems. 2,614,684, Oct. 21.

Danisch, Marion S., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Control system for magnetic recorders. 2,614,760, Oct. 21.

Darbo, Rolf E., Madison, Wis. Drier device for boots and the like. 2,614,337, Oct. 21.

Darden, Wallace F., Springfield, Tenn. Spinning top. 2,614,364, Oct. 21.

Darling, L. A., Company, assignee: *See*—
Halsall, Thomas M.

Darlington, Thomas B., Lansdowne, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Liquid level gauge. 2,614,426, Oct. 21.

Davies, Samuel D., Hanover, N. H. Slipper hanger or rack attachment for beds. 2,614,268, Oct. 21.

Davis, Robert O., assignor to Stearns Manufacturing Company, Adrian, Mich. Apparatus for oiling and cleaning pallets. 2,614,525, Oct. 21.

Davison, Albert E., Dearborn, Mich. Automatic feeding device. 2,614,315, Oct. 21.

Dean, Charles O., Uniontown, assignor of one-third to L. W. Secoy, Point Marion, Pa. Spinning reel. 2,614,767, Oct. 21.

Dean, Ronald A.: *See*—
Birch, Stanley F., Fidler, and Dean.

Dean, Walter N., Larchmont, N. Y., assignor to United States of America as represented by the Secretary of the Navy. Ranging and identification system. 2,615,157, Oct. 21.

Dearborn Motors Corporation, assignee: *See*—
Erwin, Robert L.
Richey, Clarence B.

De Back, William, and S. Puccinelli, San Jose, and R. A. McCloud, San Lorenzo, assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Fruit coring machine. 2,614,595, Oct. 21.

Deere & Company, assignee: *See*—
Oehler, William P.

Del Pozo, Albert, Jr., and M. W. Mettenleiter, New York, N. Y. Developing reel. 2,614,765, Oct. 21.

Denison, Cedric D., Baltimore, Md. Ambulatory reciprocator. 2,614,609, Oct. 21.

Dennison Manufacturing Company, assignee: *See*—
Bone, Arnold R.

Detroit Brass & Malleable Works, assignee: *See*—
Imhoff, Robert E.

Deussen, Emil, Ludwigsburg, Germany. Making metal balls. 2,614,317, Oct. 21.

Devine, John W., Jr., Lynchburg, Va. Surgical apparatus for intestinal intubation. 2,614,563, Oct. 21.

Devoe & Raynolds Company, Inc., assignee: *See*—
Greenlee, Sylvan O.

Devos, Gaston, L. A., Paris, France. Homokinetic joint. 2,614,404, Oct. 21.

Dewdney, Albert J., assignor to Triumph Dishwashers Limited, Toronto, Ontario, Canada. Liquid distributor. 2,614,886, Oct. 21.

Diamond Alkali Company, assignee: *See*—
Perrin, Tom S.

Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. 2,4-bis(methylsulfonyl)-benzeneazo-N-fluoroalkyl-N-hydroxyalkylaniline compounds. 2,615,013, Oct. 21.

Dickey, Joseph B., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Nitrobenzeneazo-N-difluoroalkyl-N-hydroxyalkylaniline dye compounds. 2,615,014, Oct. 21.

Dickey, Joseph B., and H. W. Coover, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Propellent insecticide comprising o-cyclohexylcyclohexenone, pyrethrins and piperonyl butoxide. 2,614,961, Oct. 21.

Diebold, Anton, New York, assignor to The Marbelite Company, Inc., New York County, N. Y. Signal assembly. 2,615,084, Oct. 21.

Dienst, Karl and W., Hildesheim, Germany. Treating grain fruit, especially bread grain. 2,614,935, Oct. 21.

Dienst, Waldemar: *See*—
Dienst, Karl and W.

Di Ienno, John J.: *See*—
Stuber, Walter J., and Di Ienno.

Di Ienno, John J., assignor to Carey-McFall Company, Philadelphia, Pa. Tilt mechanism for Venetian blinds. 2,614,625, Oct. 21.

Di Maggio, Samuel S., Jr., assignor to Taylor Instrument Companies, Rochester, N. Y. Pilot relay valve. 2,614,583, Oct. 21.

Dingley, Elmer A., Natick, Mass. Tractor mounted shovel loader. 2,614,712, Oct. 21.

Dion, Georges, Paris, France. Electron tube with movable electrode. 2,615,130, Oct. 21.

Ditto, Eugene D., Brookline, Mass., assignor, by mesne assignments, to Marine Optical Manufacturing Co. Ophthalmic mounting. 2,614,459, Oct. 21.

Dodge, Adiel Y., Rockford, Ill. Sprag type one-way clutch. 2,614,669, Oct. 21.

Donohue, Anthony J., Merion, Pa. Indirectly heated coil for boilers with vertical sections. 2,614,542, Oct. 21.

Donovan, Raymond F., Dallas, Tex., assignor to United Aircraft Corporation, East Hartford, Conn. Flap mechanism. 2,614,774, Oct. 21.

Douša, Eduard: *See*—
Kadlec, Zdeněk, and Douša.

Dow Chemical Company, The, assignee: *See*—
Drake, Lewis R.
Moyle, Clarence L.

Dow Corning Corporation, assignee: *See*—
Hunter, Melvin J., and Fletcher.
Hyde, James F.

Dowty Equipment Limited, assignee: *See*—
Shawbrook, Henry, and Hillier.

Drake, Lewis R., assignor to The Dow Chemical Company, Midland, Mich. Amidothiophosphates. 2,615,039, Oct. 21.

Dreher, John L., and C. F. Carter, Concord, assignors to California Research Corporation, San Francisco, Calif. Grease compositions. 2,614,987, Oct. 21.

Duckworth, Gladys M., Laguna Beach, Calif. Steam generator. 2,614,555, Oct. 21.

Du-Fast, Inc., assignee: *See*—
Robins, Samuel D.

Duke, Stephen M., Harwell Didcot, Berkshire, England. High-power vacuum tube. 2,615,137, Oct. 21.

Dumais, Charles J., Woonsocket, R. I. Tank tread and driving wheel mounting. 2,614,642, Oct. 21.

Duncan Foundry and Machine Works, Inc., assignee: *See*—
Duncan, William M.

Duncan, William M., assignor to Duncan Foundry and Machine Works, Inc., Alton, Ill. Molding process. 2,614,303, Oct. 21.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Balthis, Joseph H.
Bradley, Harris W.
Bullock, Edgar Q., Jr., and Emig.
Hurwitz, Marvin J.
Lane, Frank W.
Montenyohl, Victor I., and Olson.

Dutterer, Rex J. L., S. I. Johnson, and A. J. Hein, assignors to Hastings Manufacturing Company, Hastings, Mich. Spark plug. 2,614,548, Oct. 21.

Dyment Company, The, assignee: *See*—
Mullen, James T.

Dzus, William, West Islip, N. Y. Fastener stud. 2,614,306, Oct. 21.

E & J Manufacturing Company, assignee: *See*—
Fox, Le Roy G.

Eastern Tool & Mfg. Co., assignee: *See*—
Peterson, Carl E., and Kastner.

Eastman Kodak Company, assignee: *See*—
Ballard, Albert E., Zuehlke, and Allen.
Broughton, Geoffrey, and Woodward.
Caldwell, John R.
Carroll, Burt H., and Richey.
Cuthbert, William L., Jr.
Dickey, Joseph B.
Dickey, Joseph B., and Coover.
Harrington, Robert C., Jr.
Horton, William H., and Ernisse.
Hiatt, Gordon D., and Williams.
Hunter, Walker F., and Jensen.
Lowe, Wesley G., and Frame.
Lowe, Wesley G., and Griffin.
Luboshez, Benjamin E.
Malone, Harold L., and Marvin.
McKee, Edward S.
Nadeau, Gale F., Starck, and Smith.
Newcomb, Walter C., and Fitter.
Von Bramer, Harold, and Clemens.
Williams, Robert F.
Yutzy, Henry C., and Frame.
Yutzy, Henry C., and Russell.

Eaton, Ernest E., assignor to Clark Equipment Company, Buchanan, Mich. Synchronizer clutch element. 2,614,671, Oct. 21.

Eaton, Warren S., Los Angeles, Calif. Frequency receiving bell with an elastically yieldable diaphragm extending across its mouth. 2,614,646, Oct. 21.

Eby, Lawrence T., Roselle, N. J., assignor, to Standard Oil Development Company. Diesel fuel containing ditertiary alkyl sulfides as ignition promoters. 2,614,914, Oct. 21.

Edwards, Robert A., Schenectady, N. Y., assignor to General Electric Company. Electronic comparator device. 2,615,127, Oct. 21.

Een, Johannes B., Oslo, Norway, vested in the Attorney General of the United States. Reinforced door of wood and/or insulation material. 2,614,295, Oct. 21.

Egli, H. W., A. G., assignee: *See*—
Suter, Heinrich.

Elchin, Arnold C., Elmhurst, assignor to Arnold C. Elchin, Incorporated, Chicago, Ill. Carpet fastener. 2,614,284, Oct. 21.

Elchin, Arnold C., Incorporated, assignee: *See*—
Elchin, Arnold C.

Elda, Jacob, West Hollis, N. H. Wallpaper trimming and pasting and measuring machine. 2,614,521, Oct. 21.

Elsenberg, Bernard C., Brooklyn, N. Y. Machine for rinsing bottled fruits and the like. 2,614,680, Oct. 21.

Eksergian, Carolus L., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Railway truck. 2,614,507, Oct. 21.

Electric Auto-Lite Company, The, assignee: *See*—
Launder, James M.

Electric Construction Company Limited, The, assignee: *See*—
Milne, John C.

Elgin Sweeper Company, assignee: *See*—
Mott, Carl W.

Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Eye protective device. 2,614,255, Oct. 21.

Ellis, Charles A., Southbridge, Mass., and H. B. Cole, East Woodstock, Conn., assignors to American Optical Company, Southbridge, Mass. Ophthalmic instrument. 2,614,557, Oct. 21.

Ellis-Foster Company, assignee: *See*—
Spialter, Leonard, and MacKenzie.

Ellwein, Richard P., assignee: *See*—
Peterson, Elnar C.

Elmer, Geoffrey D., Dearborn, Mich. Packaged article cooker. 2,614,480, Oct. 21.

Elsinger, Louis S., Atlanta, Ga., assignor to The Show Off Corporation, Dover, Del. Choke collar. 2,614,533, Oct. 21.

Elson, William O., Chicago, Ill., assignor to The Kendall Company, Boston, Mass. Pharmaceutical composition for use in the treatment of keratin. 2,614,962, Oct. 21.

Elson, William O., Chicago, Ill., assignor to The Kendall Company, Boston, Mass. Keratin exfoliative compositions. 2,614,963, Oct. 21.

Emig, Fred J.: *See*—
Bullock, Edgar Q., Jr., and Emig.

Engel, William A., Adrian, Mich. Aircraft seat leg release means. 2,614,781, Oct. 21.

Engineering Controls, Inc., assignee: *See*—
Hull, Robert R.

Epstein, Henry, Brooklyn, assignor of one-third to M. E. Epstein and one-third to M. M. Epstein, New York, N. Y. Package of coreless tube wound bundle of twines. 2,614,772, Oct. 21.

Epstein, Mandel E., assignee: *See*—
Epstein, Henry.

Epstein, Morton M., assignee: *See*—
Epstein, Henry.

Ercolino, Michael D., Wanamassa, N. J. Antenna. 2,615,133, Oct. 21.

Erhardt, William A., Jr., assignor to Conso Fastener Corporation, Philadelphia, Pa. Machine for mounting snap fasteners or the like having tape advancing means. 2,614,714, Oct. 21.

Erickson, John G., Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. N-substituted formamidines. 2,615,023, Oct. 21.

Eriez Manufacturing Company, assignee: *See*—
Hoff, Ronald C.

Ernest, Walter, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del. Fluid pressure actuated reversing valve for hydraulic rams. 2,614,539, Oct. 21.

Ernisse, Paul J.: *See*—
Horton, William H., and Ernisse.

Erwin, Robert L., Royal Oak, assignor to Dearborn Motors Corporation, Highland Park, Mich. Bearing for grain drill disk. 2,614,895, Oct. 21.

Eskin, Samuel G., Los Angeles, Calif., assignor to Robertshaw-Fulton Controls Company, Youngwood, Pa. Electric ignition and automatic pilot for gaseous fuel burners. 2,614,622, Oct. 21.

Essick, Bryant, assignor to Essick Manufacturing Company, Los Angeles, Calif. Portable spraying equipment. 2,614,884, Oct. 21.

Essick Manufacturing Company, assignee: *See*—
Essick, Bryant.

Etherington, Lewis D.: *See*—
Nicholson, Edward W. S., Fritz, and Etherington.

Evans, H. C., & Co., assignee: *See*—
Andres, Lloyd J.

Evans, Howard T., Jr., White Plains, assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y. X-ray single crystal goniometer. 2,615,136, Oct. 21.

Evans, William H., Miami Beach, Fla. Jig for line reaming and boring machines. 2,614,443, Oct. 21.

Ewing, Henry, and A. Mellor, Spondon, near Derby, England, assignors to Celanese Corporation of America. Composite fabrics bonded together with polyvinyl chloride. 2,614,954, Oct. 21.

Faith, Herman E., New Palestine, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo. 2,2'-methylenebis(4-chloro-6-aminophenol). 2,615,046, Oct. 21.

Faith, Herman E., New Palestine, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo. 2,2'-methylenebis(4-chloro-6-nitrophenol) and its production. 2,615,052, Oct. 21.

Falk, Olaf, Oslo, Norway, assignor to Alfred J. Amsler & Co., Schaffhausen, Switzerland. Apparatus for velocity measurement of a moving fluid. 2,614,425, Oct. 21.

Fallert, Clifford D., St. Louis, Mo., and G. E. Whalley, Detroit, Mich., assignors to Gaylord Container Corporation, St. Louis, Mo. Divisible carton. 2,614,745, Oct. 21.

Fanger, Herman J.: *See*—
Oltz, Howard R., and Fanger.

Farnham, Paul O., Mountain Lakes, assignor to Aircraft Radio Corporation, Boonton, N. J. Electrical measuring system. 2,615,065, Oct. 21.

Farrell, James K., Syracuse, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Chemical feeder and feeding. 2,614,574, Oct. 21.

Favre, John A., Drexel Hill, Pa., assignor to General Electric Company. Zigzag magnetic labyrinth arc muffler. 2,615,109, Oct. 21.

Feilden, Geoffrey B. R.: *See*—
McLeod, Roderick C., Feilden, and Hodge.

Feilden, Geoffrey B. R., Lutterworth, assignor to Power Jets (Research and Development) Limited, London, England. Gas turbine plant having a plurality of flame tubes and axially slidable means to expose same. 2,614,384, Oct. 21.

Feilden, Geoffrey B. R., Canwick, Lincoln, assignor to Power Jets (Research and Development) Limited, London, England. Supporting structure for gas turbine power plants. 2,614,385, Oct. 21.

Feine, Erich, Ravensburg, Germany. Artificial leg. 2,614,262, Oct. 21.

Ferguson, Andrew, Pasadena, Calif. Amalgamator. 2,614,756, Oct. 21.

Fidler, Frederick A.: *See*—
Birch, Stanley F., Fidler, and Dean.

Fisher, Henry B.: *See*—
Lea, Peggy J., and Fisher.

Fisher, Henry P., Chicago, Ill. Railway car wheel flange oiler. 2,614,661, Oct. 21.

Fitter, Charles F., Jr.: *See*—
Newcomb, Walter C., and Fitter.

Fitzpatrick, W. J., Company, The, assignee: *See*—
Magnus, Elmer G.

Fléklin, Roger F., Nice, France. Apparatus for cultivating plants under shelter in the fields. 2,614,366, Oct. 21.

Fleming, Harold W., Bartlesville, Okla., and A. H. Friedman, Kansas City, Mo., assignors to Phillips Petroleum Company. Treatment of synthetic gasoline. 2,615,036, Oct. 21.

Fletcher, H. E., Company, assignee: *See*—
Melendy, Norman G.

Fletcher, Herbert J.: *See*—
Hunter, Melvin J., and Fletcher.

Flexicore Co., Inc., The, assignee: *See*—
Price, Gayle B.

Floyd, Walker, Richmond, Ind. Window frame. 2,614,665, Oct. 21.

Food Machinery and Chemical Corporation, assignee: *See*—
Arengo-Jones, Rhys W.
De Back, William, Puccinelli, and McCloud.
Grant, Robert S.
Planfetti, John A., and Porter.
Stillwell, Glenn E.

Forsyth, George H., Evanston, Ill. Bouncing ball game apparatus. 2,614,839, Oct. 21.

Foster, Harry R., East Orange, and E. E. Crump, West Caldwell, assignors to Ohmega Laboratories, Pine Brook, N. J. Frequency analyzer system. 2,615,078, Oct. 21.

Fox, Le Roy G., assignor to E & J Manufacturing Company, Glendale, Calif. Absorber for anesthetic gas machines. 2,614,561, Oct. 21.

Frame, Gordon F.: *See*—
Yutzy, Henry C., and Frame.

Francisco Batalla Faldella, assignee: *See*—
Carandell Marimón, Juan.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,614,746, Oct. 21.

Franza, Alfred M., New York, N. Y. Producing mirrors. 2,614,943, Oct. 21.

Freeman, Michael W., Detroit, Mich. Producing modified machine elements. 2,614,948, Oct. 21.

Freis, Frederick M., Chicago, assignor to Conlon-Moore Corporation, Cicero, Ill. Portable domestic ironing machine. 2,614,347, Oct. 21.

French American Reeds Manufacturing Co., Inc., assignee: *See*—
Maccaferri, Mario.

Freudenberg, Leo: *See*—
Van der Pelen, Céline, and Freudenberg.

Freyermuth, Harlan B., and W. O. Ney, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Ultraviolet light absorbing film. 2,614,940, Oct. 21.

Friedman, Alvin H.: *See*—
Fleming, Harold W., and Friedman.

Fritz, Robert J.: *See*—
Nicholson, Edward W. S., Fritz, and Etherington.

Frye, Jack, Sedona, Ariz. Heat-sealing tool. 2,615,113, Oct. 21.

Fuller, Robert A., assignor to Selas Corporation of America, Philadelphia, Pa. Burner and nozzle tip for projecting hot products of combustion. 2,614,619, Oct. 21.

Fuller, Roger E.: *See*—
Garlinger, Charles D., and Fuller.

Fulton Company, The, assignee: *See*—
Riemann, Howard C.

Futterer, Frances L., executrix: *See*—
Futterer, Wolfram A.

Futterer, Wolfram A., deceased, Woodstock, Ill.; F. L. Futterer, executrix, assignor to Broiler Equipment Company, Parsonsburg, Md. Poultry drinking valve. 2,614,531, Oct. 21.

Gabrielson, James B., Montebello, Calif. Building construction roll supporting reel. 2,614,770, Oct. 21.

Galan, Louis, Pittsburgh, Pa. Textile printing machine. 2,614,490, Oct. 21.

Galbraith, William G., W. T. Williams, and C. T. Abraham, Kansas City, Mo. Fishhook rack. 2,614,359, Oct. 21.

Gallagher, William P., assignor to International Register Company, Chicago, Ill. Electric motor construction. 2,615,069, Oct. 21.

Garcia, Roger, Jackson Heights, N. Y. Telescoping door. 2,614,626, Oct. 21.

Gardner, Frank, assignee: *See*—
Chiego, Bernard.

Garlinger, Charles D., and R. E. Fuller, Houston, Tex. Portable elevatory platform unit. 2,614,800, Oct. 21.

Garmon, Orion M., Richmond, Va. Multiple position control device for aircraft. 2,614,438, Oct. 21.

Garrett Corporation, The, assignee: *See*—
Jensen, Raymond W.

Gaskell & Chambers Limited, assignee: *See*—
Price, Arthur H.

Gasoline Research Industrial & Commercial Company, Inc., assignee: *See*—
Labour, Jean P.

Gates, Paul G., Long Beach, Calif. Lawn mower grass catcher. 2,614,380, Oct. 21.

Gaylord Container Corporation, assignee: *See*—
Fallert, Clifford D., and Whalley.

General Aniline & Film Corporation, assignee: *See*—
Bluemmel, Francis P., and Lytle.
Freyermuth, Harlan B., and Ney.
Lytle, Lawrence D.
Randall, David I., and Renfrew.

General Bronze Corporation, assignee: *See*—
Peremi, Edmund, and Weimann.

General Cable Corporation, assignee: *See*—
Bronovicki, Adam A.

General Electric Company, assignee: *See*—
Apple, Lee S.
Edwards, Robert A.
Favre, John A.
Goure, Robert E.
Gruen, Wolf J.
Keitley, Robert.
Liversidge, Joseph H.
Marinace, John C., and Le Loup.
Ogle, Hugh M.
Paluev, Konstantin K.
Wade, Elmer J.

General Motors Corporation, assignee: *See*—
Reindl, Harold J., and Prance.

General Railway Signal Company, assignee: *See*—
Livingston, Waltrus L.

General Strapping Corporation, assignee: *See*—
Cheesman, John J.

General Tire and Rubber Company, The, assignee: *See*—
Iredell, Robert.
Kraft, Herman T.

Genuchten, Antonius J.: *See*—
Loosjes, Robert, and Genuchten.

Giaccaglia, Mario C. L., and R. A. Mudry, Buenos Aires, Argentina. Ligature applying instrument. 2,614,564, Oct. 21.

Gibson Refrigerator Company, assignee: *See*—
Tillapaugh, Harley.

Gilbert, Charles E., deceased, New York, N. Y.; M. D. Gilbert, N. Coates, and The Chase National Bank of the City of New York, executors. Socket receptacle for electric light bulbs. 2,615,072, Oct. 21.

Gilbert, Margaret D., executrix: *See*—
Gilbert, Charles E.

Gile, Richard M., Buffalo, N. Y., assignor to American Optical Company, Southbridge, Mass. Film gate for projection apparatus. 2,614,455, Oct. 21.

Glwosky, Harry L., assignor to The Coleman Company, Inc., Wichita, Kans. Floor furnace. 2,614,554, Oct. 21.

Glasgow, Clarence O.: *See*—
Walker, Jay P., and Glasgow.

Glasgow, Forrest F.: *See*—
Cockrell, Sanford C., and Glasgow.

Glass, Bernard R.: *See*—
Horvat, William Z., and Glass.

Gleason, Anthony H.: *See*—
Vanderbilt, Byron M., and Gleason.

Glenn, William E., Jr., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Mass analyzing apparatus. 2,615,135, Oct. 21.

Glycerine Corporation of America, Inc., The, assignee: *See*—
Brooks, Benjamin T.

Goddard, Emmons A., Birmingham, assignor to Goddard & Goddard Company, Detroit, Mich. Cutter and forming the same. 2,614,441, Oct. 21.

Goddard & Goddard Company, assignee: *See*—
Goddard, Emmons A.

Godfrey, William H., Detroit, Mich. Vehicle spring. 2,614,832, Oct. 21.

Goepfrich, George A., Stamford, assignor to The Skinner Chuck Company, Norwalk, Conn. Solenoid actuated valve. 2,614,584, Oct. 21.

Goldman, Sanford L., Long Beach, N. Y. Display mount. 2,614,353, Oct. 21.

Gommel, Ernest W., El Cerrito, Calif., assignor to United States Steel Company. Dirigible automotive arc welder. 2,615,110, Oct. 21.

Goodhue, William V., Warwick, R. I., assignor to Universal Winding Company, Boston, Mass. Bobbin with strand end attaching means. 2,614,771, Oct. 21.

Goolsbee, Charles C., assignor to Reed Roller Bit Company, Houston, Tex. Rotary bit. 2,614,810, Oct. 21.

Gordon, Lawrence L., New York, N. Y. Supervisory control system for filming television and other pictures. 2,615,088, Oct. 21.

Gossmann, John H., Chicago, Ill. Cleaning mop holder. 2,614,280, Oct. 21.

Goure, Robert E., Erie, Pa., assignor to General Electric Company. Tube seal. 2,614,398, Oct. 21.

Grace Corset Company, assignee: *See*—
Searles, Albert H.

Graham, Matthew P.: *See*—
Alldredge, Marshall H., and Graham.

Graham, Robert P., El Cerrito, J. H. Thompson, Burlingame, and A. D. Shepherd, El Cerrito, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Separation of pear waste into its liquid and solid components. 2,614,933, Oct. 21.

Grant, Robert S., Lakeland, Fla., assignor to Food Machinery and Chemical Corporation. Universal weigher and bagger. 2,614,787, Oct. 21.

Graves, Reber, Glen Ellyn, Ill. Plate hanger. 2,614,778, Oct. 21.

Gray, John D.: *See*—
Zaber, Adolph J., and Gray.

Graybill, Kenneth W., Elmhurst, and H. Sengebusch, Villa Park, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Mechanical counting relay. 2,615,086, Oct. 21.

Graybill, Kenneth W., Elmhurst, and H. Sengebusch, Villa Park, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Switching apparatus. 2,615,095, Oct. 21.

Graymills Corporation, assignee: *See*—
Zaber, Adolph J., and Gray.

Green Giant Company, assignee: *See*—
Barnard, John D., and Leverson.

Greenidge, Luis, New York, N. Y. Carrot cutter. 2,614,324, Oct. 21.

Greenlee, Sylvan O., Racine, Wis., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Epoxide resins. 2,615,007, Oct. 21.

Greenlee, Sylvan O., Racine, Wis., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Epoxide resin compositions. 2,615,008, Oct. 21.

Gregory, James N., La Habra, assignor to Shell Development Company, San Francisco, Calif. Apparatus for unloading equipment. 2,614,710, Oct. 21.

Griffin, Cecil M., Pittsburgh, Pa. Grinding wheel dresser. 2,614,552, Oct. 21.

Griffin, Kearney P.: *See*—
Lowe, Wesley G., and Griffin.

Grimm, Albert C., Lancaster, Pa., assignor to Radio Corporation of America. Beam type electron tube. 2,615,138, Oct. 21.

Grizzard, Earle D., and F. R. Collar, Los Angeles, and J. C. Mitchell, La Crescenta, assignors to Adams Rite Manufacturing Company, Glendale, Calif. Anchor for cargo tie-down devices. 2,614,871, Oct. 21.

Groen, Willem, assignor to Onsrud Machine Works, Inc., Chicago, Ill. Motor brake control. 2,615,153, Oct. 21.

Grosboll, Lorin E., assignor to Mueller Co., Decatur, Ill. Pressure regulator. 2,614,367, Oct. 21.

Gross, Roland C., Greenfield, Iowa. Roof truss structure. 2,614,512, Oct. 21.

Gross, William E., Joppa, Md. Gravity filling machine with pneumatically discharge controlling cutoff. 2,614,741, Oct. 21.

Grote, Henry W., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Etherification of hydroquinone. 2,615,051, Oct. 21.

Gruen, Wolf J., Syracuse, N. Y., assignor to General Electric Company. Automatic tone control. 2,615,090, Oct. 21.

Gudger, Jesse, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for slitting the margins of shoe uppers. 2,614,277, Oct. 21.

Guice, John W.: *See*—
Cox, Ernest L., and Guice.

Gulf Research & Development Company, assignee: *See*—
Hirsch, Joel H.
Petnode, Homer W., and Wyllie.
Stickney, Wilder C.

Gummed Products Company, The, assignee: *See*—
Havemann, Robert A., Bruce, and MacRae.

Gustafson, Carl A., assignor to Caterpillar Tractor Co., Peoria, Ill. Tractor steering mechanism. 2,614,644. Oct. 21.

Guth, Edwin F., Florissant, Mo. Ceiling fixture for fluorescent lamps. 2,615,123, Oct. 21.

Gyro Process Company, The, assignee: *See*—
Holland, William W.

H-P-M Development Corporation, assignee: *See*—
Ernst, Walter.
Purcell, Howard M.
Tucker, Warren R.

Haaksma, William J.: *See*—
Holmes, Louis D., Haaksma, and Hammond.

Habenicht, August F., Tinley Park, Ill. Sod cutter. 2,614,477, Oct. 21.

Hach, William: *See*—
Artz, Neal E., and Hach.

Hager, Frederick M. M. J.: *See*—
Warren, John C. R., and Hager.

Hall, Charles T., Deptford, London, assignor to Molins Machine Company Limited, London, England. Cover feed for wrapping or packing machines. 2,614,374, Oct. 21.

Hall, Frank G., Chicago, Ill. Hairpin. 2,614,570, Oct. 21.

Hall, Robert C., Evergreen, and R. E. Mock, Denver, Colo. Protective cover for automobile storage batteries. 2,614,598, Oct. 21.

Hallowell, Howard T., Jr., Dydal, and F. Bennett, Philadelphia, assignors to Standard Pressed Steel Co., Jenkintown, Pa. Anchoring means for adjustable backs of metal chairs. 2,614,614, Oct. 21.

Halsall, Thomas M., Coldwater, assignor to L. A. Darling Company, Bronson, Mich. Pressure molding laminates. 2,614,955, Oct. 21.

Hamilton Watch Company, assignee: *See*—
Markert, John E., Russell, and Smith.
Schafer, Robert E., and Kreider.

Hammer, Rolf O., Pittsburgh, Pa., assignor to United States Steel Company. Sheet package and skid therefor. 2,614,688, Oct. 21.

Hammond, Robert S.: *See*—
Holmes, Louis D., Haaksma, and Hammond.

Hand, Wilfred C., assignee: *See*—
Brandt, Francis L.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. High-frequency electron discharge tube of the traveling wave type. 2,615,141, Oct. 21.

Hansen, Thorwald H., Rahway, N. J. Filter aerator for aquaria. 2,614,529, Oct. 21.

Hanson, Raymond A., Palouse, Wash. Level sensitive switch. 2,615,099, Oct. 21.

Hanze, Arthur R.: *See*—
Mariatt, Paul E., Hanze, McIntosh, and Levin.

Haraden, George: *See*—
Johnson, Charles E., Haraden, and McCammon.

Harman, Denham, Berkeley, and R. E. Thorpe, assignors to Shell Development Company, San Francisco, Calif. Lubricating composition of matter. 2,614,990, Oct. 21.

Harney, William S., Jr., Elizabeth, N. J., assignor to Standard Oil Development Company. Purification of secondary butyl acetate. 2,614,972, Oct. 21.

Harocopo, Marino N., assignor to Ski-affiliates, Inc., New York, N. Y. Ski pole handle. 2,614,859, Oct. 21.

Harrington, Robert C., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparing reaction product of oleyl alcohol and aluminum chloride. 2,615,032, Oct. 21.

Harris, James T., Greensboro, N. C. Comb. 2,614,569, Oct. 21.

Harris, Walter D.: *See*—
Zukel, John W., and Harris.

Hart, Norman E., assignor to Toledo Scale Company, Toledo, Ohio. Tare offsetting mechanism. 2,614,826, Oct. 21.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Claessen, Wilhelmus H. L.
Loosjes, Robert, and Genuchten.

Hartig, Rolf P., Minneapolis, Minn. Cotton holder for dental use. 2,614,325, Oct. 21.

Hastings Manufacturing Company, assignee: *See*—
Dutterer, Rex J. L., Johnson, and Hein.
Phillips, Harold P.

Hauck Manufacturing Company, assignee: *See*—
Turpin, Alexander J.

Havemann, Robert A., and D. S. Bruce, Troy, Ohio, and C. B. MacRae, New York, N. Y., assignors to The Gummed Products Company, Troy, Ohio. Gummed tape serving and moistening mechanism. 2,614,523, Oct. 21.

Hawley Brake Corporation, assignee: *See*—
Hawley, Jesse G.

Hawley, Jesse G., Painted Post, assignor to Hawley Brake Corporation, Corning, N. Y. Single-disk spot-type brake with one point adjustment. 2,614,662, Oct. 21.

Hayes, George A., East Greenwich, and E. Schmidt, Providence, assignors to Riverpoint Lace Works, Inc., West Warwick, R. I. Setting nylon. 2,615,116, Oct. 21.

Haynes, Harold E., Audubon, N. J., assignor to Radio Corporation of America. Capacitor manufacturing evaporation apparatus. 2,614,524, Oct. 21.

Hecker, George E.: *See*—
Camisa, George, and Hecker.

Hedgion, Mead, Syracuse, N. Y. Hand rail and shelf construction for stepladders. 2,614,744, Oct. 21.

Heidegger, Henry F., Glen Ridge, N. J., and W. Borberg, Astoria, N. Y., assignors to International Projector Corporation, Bloomfield, N. J. Sprocket fastening means. 2,614,872, Oct. 21.

Heiland Research Corporation, assignee: *See*—
Johnson, Charles E., Haraden, and McCammon.

Heilman, Bernard: *See*—
Lenart, Anthony, and Heilman.

Hein, Anthony J.: *See*—
Dutterer, Rex J. L., Johnson, and Hein.

Heintz, Ralph M., assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Sprag type overrunning clutch. 2,614,670, Oct. 21.

Heinz, Edward N., Sr., Oak Park, Ill. Unexpired time and maturity date calculator. 2,614,751, Oct. 21.

Heise, Walter E., Syracuse, N. Y. Mold freezing apparatus. 2,614,403, Oct. 21.

Heise, Walter E., Syracuse, N. Y. Apparatus for separating frozen articles from molds. 2,614,510, Oct. 21.

Helfrecht, Fred A., assignor to National Motor Bearing Co., Inc., Redwood City, Calif. Fluid seal. 2,614,874, Oct. 21.

Herceg, Matt D., Stockton, Calif. Ventilated shoe. 2,614,339, Oct. 21.

Hercules Powder Company, assignee: *See*—
Robinson, John C., Jr.
Robinson, John C., Jr., and Ropp.

Herman, James H., Jr., assignor of one-quarter to C. Thornquist, Austin, Tex. Air conditioning means for motor vehicles. 2,614,478, Oct. 21.

Herrmann, John F.: *See*—
Critoph, David I., Herrmann, and Wolford.

Hersh, Joseph M., New York, N. Y., assignor to Continental Oil Company, Ponca City, Okla. Siloxanes produced by hydrolysis of halogen substituted silacyclohydrocarbons. 2,615,033, Oct. 21.

Hervey, David E., Old Fort, N. C., assignor to Hervey Foundation, Incorporated. Press platen for laminated material. 2,614,590, Oct. 21.

Hervey Foundation, Incorporated, assignee: *See*—
Hervey, David E.

Hettrick Manufacturing Company, The, assignee: *See*—
Wogomon, Donald G.

Heyroth, Albert H., Lewiston, assignor to The Carborundum Company, Niagara Falls, N. Y. Refractory articles and making. 2,614,947, Oct. 21.

Hiatt, Gordon D., and R. F. Williams, assignors to Eastman Kodak Company, Rochester, N. Y. Stabilized lower fatty acid ester of cellulose. 2,614,941, Oct. 21.

Higgins, Ralph O.: *See*—
Pardue, Elbert M., and Higgins.

Highway Trailer Company, assignee: *See*—
Connors, George H.

Hildebrandt, Alexander B., Tulsa, Okla., assignor to Standard Oil Development Company. Inclinometer for boreholes. 2,614,334, Oct. 21.

Hillier, Edward F.: *See*—
Shawbrook, Henry, and Hillier.

Hillmer, Herman H., and H. P. Orent, assignors to Printing Engineers Incorporated, Omaha, Nebr. Photoprinting apparatus. 2,614,469, Oct. 21.

Hillmer, Herman H., and H. P. Orent, assignors to Printing Engineers Incorporated, Omaha, Nebr. Lamphouse for printing apparatus. 2,614,470, Oct. 21.

Hirsch, Joel H., Oakmont, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Manufacture of synthesis gas. 2,614,915, Oct. 21.

Hite, Melville P., Jacksonville, Fla. Drafting board. 2,614,360, Oct. 21.

Hodge, James: *See*—
McLeod, Roderick C., Feilden, and Hodge.

Hoenecke, Walter J.: *See*—
Caron, Louis D., Jr., and Hoenecke.

Hoff, Ronald C., assignor to Erlez Manufacturing Company, Erie, Pa. Detecting device for magnetizable members. 2,615,081, Oct. 21.

Hoffman, James A.: *See*—
Jacobsson, Wilgot J., Hoffman, and Oldham.

Hoffmann, Otto L., Bethany, and D. L. Schoene, Woodbridge, Conn., assignors to United States Rubber Company, New York, N. Y. Agricultural chemical compositions comprising 1,2-dihydropyridazine-3,6-dione and its salts. 2,614,916, Oct. 21.

Hoffmann, Walter, Zurich, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland. Thread guide support in spinning machines. 2,614,382, Oct. 21.

Hoffstetter, George O., Jerseyville, Ill. Cement conveyer. 2,614,708, Oct. 21.

Hofft Company, Inc., The, assignee: *See*—
Miller, Henry C. L., and Raddin.

Holben, James H., Lake Wales, Fla. Distributor for loose material. 2,614,849, Oct. 21.

Holland, Jacob A., deceased, Brady, Tex.; L. A. Holland, administratrix. Well fishing tool. 2,614,881, Oct. 21.

Holland, Lena A., administratrix: *See*—
Holland, Jacob A.

Holland, William W., Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich. Separation of powdered catalyst from a stream of gaseous hydrocarbons. 2,614,659, Oct. 21.

Holley, Earl, assignee: *See*—
Bobier, Wilfred S., Jr.

Holley, George M., assignee: *See*—
Bobier, Wilfred S., Jr.

Hollmann, Hans E., Oxnard, Calif., assignor to the United States of America as represented by the Secretary of the Navy. Force measuring system employing piezocapacitors. 2,614,416, Oct. 21.

Holmes, Louis D., Blue Island, W. J. Haaksma, Harvey, and R. S. Hammond, Winnetka, Ill., assignors to Whiting Corporation. Vehicle body support. 2,614,504, Oct. 21.

Hood, James W., Chicago, Ill. Forced circulation boiler. 2,614,543, Oct. 21.

Hook, Edwin O., Old Greenwich, Conn., and P. H. Moss, Seldovia, Alaska, assignors to American Cyanamid Company, New York, N. Y. Hydrocarbon oils containing S-alkoxy-methyl-O,O'-dialkyldithiophosphates. 2,614,988, Oct. 21.

Hoover, Merle V., Mountville, Pa., assignor to Radio Corporation of America. Electron tube protective system. 2,615,147, Oct. 21.

Hope, Henry B., Mount Vernon, assignor to R. H. Comey Company, Inc., Brooklyn, N. Y. Dewaxing paper. 2,614,922, Oct. 21.

Hopper, Paul F.: *See*—
Kaiser, Donald W., and Hopper.

Hörberg, Erik A., Enskede, assignor to Lumialampan Aktiebolag, Stockholm, Sweden. Electric lamp bulb. 2,615,073, Oct. 21.

Horton, William H., and P. J. Ernisse, assignors to Eastman Kodak Company, Rochester, N. Y. Film stripper-stop for extrusion-loading apparatus. 2,614,763, Oct. 21.

Horton, Winthrop S.: *See*—
Waderlow, Benerson A., and Horton.

Horvat, William Z., Hollis, and B. R. Glass, Forest Hills, N. Y. Rotary vertical broiler for frankfurters or similar articles. 2,614,486, Oct. 21.

Hosford, Norman F., Towaco, assignor to Bendix Aviation Corporation, Teterboro, N. J. Pressure responsive switch. 2,615,104, Oct. 21.

Hougham, Paul C., assignor of twenty per cent to G. W. Houk, Visalia, Calif. Bedding support. 2,614,269, Oct. 21.

Houilleres du Bassin du Nord et du Pas de Calais, assignee: *See*—
Binaut, Jean.

Houk, Gareth W., assignee: *See*—
Hougham, Paul C.

House, Thomas J., Decatur, Ill. Covered spring greasing device. 2,614,660, Oct. 21.

Houser, Harold S., assignor to Standard Oil Company, Chicago, Ill. Barrel transporting device. 2,614,711, Oct. 21.

Howard, James V., Nampa, Idaho. Land leveler. 2,614,346, Oct. 21.

Howe Twister Corporation, assignee: *See*—
Uhlig, Henry C.

Howley, Agnes C., Beverly Hills, Pa. Adapter for truck wheel rims. 2,614,603, Oct. 21.

Hoza, John, Belcamp, Md. Shoe with sole having raised portions on its upper face. 2,614,342, Oct. 21.

Hubert, Archie H., assignee: *See*—
Yancofski, Genevieve A.

Huck, Alfred J., and C. D. Visos, assignors to Knapp-Monarch Company, St. Louis, Mo. Timer for toasters and the like. 2,614,481, Oct. 21.

Huffman, Max N., Dallas, Tex., assignor to G. D. Searle and Co., Chicago, Ill. Derivatives of 2-methyl-2-formyl-7-hydroxyoctahydrophenanthrene-1-acetic acid and the production thereof. 2,615,041, Oct. 21.

Hull, Robert R., assignor to Engineering Controls, Inc., Los Angeles, Calif. Condenser. 2,614,816, Oct. 21.

Hunt, Scott F.: *See*—
Chandler, Milton E., and Hunt.

Hunter Douglas Corporation, assignee: *See*—
Hunter, Joseph L., and Martin.

Hunter, Joseph L., and T. A. Martin, assignors, by mesne assignments, to Hunter Douglas Corporation, Riverside, Calif. Fabricating plastic Venetian blind ladders. 2,614,956, Oct. 21.

Hunter, Melvin J., and H. J. Fletcher, assignors to Dow Corning Corporation, Midland, Mich. High viscosity low freezing organo-siloxane fluids. 2,614,989, Oct. 21.

Hunter, Philip E.: *See*—
Judson, Charles A., Read, and Hunter.

Hunter, Walker F., and E. W. Jensen, assignors to Eastman Kodak Company, Rochester, N. Y. Apparatus for indicating liquid level. 2,614,427, Oct. 21.

Hupp Corporation, assignee: *See*—
Ardussi, Wallace F.

Hurwitz, Marvin J., Brooklyn, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Polyamide molding powder. 2,615,002, Oct. 21.

Hutchinson, William M., Bartlesville, Okla., assignor to Phillips Petroleum Company. Drilling fluid. 2,614,979, Oct. 21.

Hyde, James F., Corning, N. Y., assignor to Dow Corning Corporation, Midland, Mich. Preparation of trimethylchlorosilane. 2,615,034, Oct. 21.

Hydrocarbon Research, Inc., assignee: *See*—
Wagstaff, James B.

Hyland, William A., and R. R. Borngraeber, assignors to John Deere Van Brunt Company, Horicon, Wis. Fertilizer distributor. 2,614,850, Oct. 21.

I-T-E Circuit Breaker Company, assignee: *See*—
Caswell, Arthur S.

Imhoff, Robert E., assignor to Detroit Brass & Malleable Works, Detroit, Mich. Valve cap construction. 2,614,794, Oct. 21.

Industrial Tape Corporation, assignee: *See*—
Bemmels, Cyrus W.

Industrie-en Handelmaatschappij "De Vuurslag" C. V., assignee: *See*—
Neutelings, Willem.

Ing. Silvio Immovilli, assignee: *See*—
Radice, Ambroglo.

Ingersoll-Rand Company, assignee: *See*—
Anderson, James H.
Cowles, Ellsworth C.
Kidney, Carleton B.
Miller, Frank.
Morrison, William A.
Shepherd, Benjamin F.

Insinger, Thomas H., Jr., assignor to Koppers Company, Inc., Pittsburgh, Pa. Vinyl ethers. 2,615,050, Oct. 21.

Interborough News Company, assignee: *See*—
Booth, George P., and Smith.

International Electrolytic Plant Company Limited, The assignee: *See*—
Wood, William, and Bowen.

International Minerals & Chemical Corporation, assignee: *See*—
Lawver, James E.

International Projector Corporation, assignee: *See*—
Heidegger, Henry, and Borberg.

International Register Company, assignee: *See*—
Gallagher, William P.

International Tag & Salesbook Company, assignee: *See*—
Shennan, Alexander G.

Iredell, Robert, assignor to The General Tire and Rubber Company, Akron, Ohio. Pneumatic tire building drum. 2,614,951, Oct. 21.

Ittel, Henry A., Howard Lake, Minn. Animal carcass dehairing machine. 2,614,286, Oct. 21.

Jack & Heintz Precision Industries, Inc., assignee: *See*—
Heintz, Ralph M.

Jackson, Byron, Co., assignee: *See*—
Mathews, Harry A., Riordan, and Scott.

Jackson, Frank L., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Waxy triglycerides. 2,615,159, Oct. 21.

Jackson, Jay J., Tonawanda, N. Y. Tray holder for card tables. 2,614,782, Oct. 21.

Jackson, Norman W.: *See*—
Molins, Desmond W., Ruau, Jackson, and Bruce.

Jacob, Carlyle W., Rochester, N. Y. Recording head for facsimile reproduction and the like. 2,614,901, Oct. 21.

Jacobsson, Wilgot J., Plainfield, J. A. Hoffman, Roselle, and S. R. Oldham, West Orange, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Aircraft breathing oxygen regulator. 2,614,573, Oct. 21.

Jalbert, Adrien L., assignor of fifty per cent to E. R. Jalbert, Lewiston, Maine. Binding machine. 2,614,276, Oct. 21.

Jalbert, Emile R., assignee: *See*—
Jalbert, Adrien L.

James, Robert M., Buffalo, N. Y. Undercut former. 2,614,310, Oct. 21.

Jampol Company, Inc., The, assignee: *See*—
Daniels, Herbert E.

Janquart, Fabian E.: *See*—
Martindale, Harvey E., and Janquart.

Jasper, Gabriel E., Plainfield, and L. M. Welch, Madison, N. J., assignors to Standard Oil Development Company. Mixed diluent system for copolymerization of styrene and isobutylene. 2,615,004, Oct. 21.

Jennings, Charles W., Ballinger, Tex. Obstruction responsive root cutting plow. 2,614,476, Oct. 21.

Jensen, Elnar W.: *See*—
Hunter, Walter F., and Jensen.

Jensen, Raymond W., assignor to The Garrett Corporation, Los Angeles, Calif. Temperature controlled oil system. 2,614,575, Oct. 21.

Jerred, John H., assignee: *See*—
Martindale, Harvey E., and Janquart.

Johanna-Western Mills Company, assignee: *See*—
Bleibtreu, Hermann.

Johnson, Carl E.: *See*—
Wolff, William F., and Johnson.

Johnson, Carl G., assignor to J. P. Seeburg Corporation, Chicago, Ill. Automatic phonograph. 2,614,847, Oct. 21.

Johnson, Charles E., G. Haraden, and R. F. McCammon, assignors to Heiland Research Corporation, Denver, Colo. Flash synchronizer for cameras. 2,614,467, Oct. 21.

Johnson, Ernest A., Duluth, Minn. Window ventilator. 2,614,479, Oct. 21.

Johnson, Howard E., assignor to W. F. Whitney Company, Inc., South Ashburnham, Mass. Joint for furniture construction. 2,614,302, Oct. 21.

Johnson & Johnson, assignee: *See*—
Willits, George W.

Johnson, Stephen I.: *See*—
Dutterer, Rex J. L., Johnson, and Hein.

Johnson, Wilford L., assignee: *See*—
Peterson, Elnar C.

Jones, Arden T., New Philadelphia, Ohio, and C. A. Newport, Ferndale, Mich., assignors to Joy Manufacturing Company, Pittsburgh, Pa. Coal drill bit. 2,614,814, Oct. 21.

Jones & Lamson Machine Company, assignee: *See*—
Cormier, Gerard A.

Jordan, Edgar A.: *See*—
Barney, Mortimer D. and R. I., and Jordan.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,614,275, Oct. 21.

Joseph, Bernard, Brooklyn, N. Y. Peg game board. 2,614,841, Oct. 21.

Joseph, Nathan, Los Angeles, Calif. Brake operating mechanism. 2,614,663, Oct. 21.

Joy Manufacturing Company, assignee: *See*—
Bebinger, Charles N.
Curtis, John C.
Curtis, John C., and Miller.
Jones, Arden T., and Newport.

Judson, Charles A., Borrowash, J. R. Read, Duffield, and P. E. Hunter, Chellaston, assignors to Rolls-Royce Limited, Derby, England. Multistage turbine disk construction for gas turbine engines. 2,614,799, Oct. 21.

Jugans, Charles J., Bloomingdale, N. J. Exercising toy. 2,614,505, Oct. 21.

Jung, Albert H., Flushing, assignor to Victor Industries Corporation, Brooklyn, N. Y. Collapsible tube roller. 2,614,729, Oct. 21.

Kaberg, Russell A., assignor to Monsanto Chemical Company, St. Louis, Mo. Setting fruit and composition therefor. 2,614,918, Oct. 21.

Kadlec, Zdeněk, and E. Douša, Prague, assignors to Meopta, national corporation, Prerov, Czechoslovakia. Precision balance. 2,614,825, Oct. 21.

Kaiser, Donald W., Old Greenwich, and P. F. Hopper, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Preparation of diarylguanidines. 2,615,045, Oct. 21.

Kalart Company, Inc., The, assignee: *See*—
Schwartz, Morris, and Castedello.

Kamborian, Jacob S., West Newton, Mass. Apparatus for use in cement lasting footwear. 2,614,527, Oct. 21.

Kapnick, Edward C., Adrian, Mich. Drill end sharpening means. 2,614,370, Oct. 21.

Kass, Samuel M., Philadelphia, Pa. Flush tank repair seat. 2,614,263, Oct. 21.

Kastner, Ernest C.: *See*—
Peterson, Carl E., and Kastner.

Katz, Sidney H., Edgewood Arsenal, Md., assignor to the United States of America as represented by the Secretary of War. Filter material. 2,614,655, Oct. 21.

Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom harness. 2,614,586, Oct. 21.

Kawneer Company, The, assignee: *See*—
Ketchum, Morris, Jr.

Kayes, William D., Jr., Chicago, Ill. Artificial fish lure. 2,614,356, Oct. 21.

Keating, Patrick J., Jr., Scarsdale, assignor to The Texas Company, New York, N. Y. Weather-resistant concrete. 2,614,939, Oct. 21.

Keil, Clarence E., East Peoria, Ill., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Article-orienting mechanism for labeling machines. 2,614,681, Oct. 21.

Keitley, Robert, Rugby, England, assignor to General Electric Company. Screened high-frequency circuit element. 2,615,091, Oct. 21.

Keller Tool Company, assignee: *See*—
Shaff, Ernest H.

Kellogg, M. W., Company, The, assignee: *See*—
Burton, William P.
Rubin, Louis C., Riblett, and McGrath.

Kelly, Louis W., Alhambra, Calif. Valve grinder. 2,614,372, Oct. 21.

Kelly, William D., Western Springs, assignor to Tuttle & Kift, Inc., Chicago, Ill. Raising and lowering facilities for deep well cooker heaters. 2,615,118, Oct. 21.

Kelsey, Walter, New York, N. Y. Sintering machine. 2,614,828, Oct. 21.

Kelsey, Walter, New York, N. Y. Sintering machine. 2,614,829, Oct. 21.

Kelsey, Walter, New York, N. Y. Breaking sinter cake during sintering. 2,614,920, Oct. 21.

Kendall Company, The, assignee: *See*—
Elson, William O.

Kennebeck, Paul A., Grand Prairie, Tex. Narrow beam receiving antenna. 2,615,126, Oct. 21.

Kepes, André, Saint-Mande, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Testing apparatus for the measurement of the internal physical properties of solids. 2,614,415, Oct. 21.

Kerr, Alexander H., & Co., Inc., assignee: *See*—
Sachs, Carrol C.

Ketchum, Morris, Jr., New York, N. Y., assignor to The Kawneer Company, Niles, Mich. Sash holding bracket. 2,614,298, Oct. 21.

Kharasch, Morris S., Chicago, Ill., and S. Weinhouse, Chester, Pa., assignor to the United States of America as represented by the Secretary of War. Preparing ethyl dichlorophosphine. 2,615,043, Oct. 21.

Kidd, Wesley E., and R. L. Metzenberg, assignors to Sears, Roebuck and Co., Chicago, Ill. Phonograph needle. 2,614,848, Oct. 21.

Kidney, Carleton B., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Pressure fluid seal controlling device. 2,614,797, Oct. 21.

Kiehl, Arthur H., Cuyahoga Falls, assignor, by mesne assignaments, to The Bridgewater Machine Tool Co., Akron, Ohio. Mold engraving machine. 2,614,464, Oct. 21.

King, Harold S., Elkhart, Ind., assignor to Penn Controls, Inc. Defroster control. 2,614,395, Oct. 21.

King Sales & Engineering Co., assignee: *See*—
McGihon, Leonard.

Kinney, Edward C., Chicago, Ill. Binder. 2,614,567, Oct. 21.

Kirby, James B., West Richfield, assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio. Washing machine provided with vibration dampener and mounting. 2,614,410, Oct. 21.

Kircher, Ralph N., West Bend, and W. B. Burkett, Hartford, assignors to West Bend Aluminum Co., West Bend, Wis. Main bearing for multicrank engines. 2,614,897, Oct. 21.

Kirchner, Carl O., assignor to Leggett & Platt, Inc., Carthage, Mo. Coiling machine. 2,614,606, Oct. 21.

Kirlin Company, The, assignee: *See*—
Kirlin, Ivan M.

Kirlin, Ivan M., Detroit, Mich., assignor to The Kirlin Company. Pane fastener. 2,614,667, Oct. 21.

Kjeldsen, Jens L., Odense, Denmark. Rack for milk buckets or like containers. 2,614,700, Oct. 21.

Klapproth, William J., Jr., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of guanidine and melamine. 2,615,019, Oct. 21.

Klein, Otto, Pforzheim, Baden, Germany. Apparatus for corrugating tubes. 2,614,607, Oct. 21.

Knapp-Monarch Company, assignee: *See*—
Huck, Alfred J., and Visos.

Kneifel, Laurence S., Cleveland, and H. V. Sharlitt, Shaker Heights, assignors to Transparent Specialties Corp., Cleveland, Ohio. Card holder. 2,614,350, Oct. 21.

Knoll A.-G. Chemische Fabriken, assignee: *See*—
Schenck, Gerhard, and Rattinger.

Koester, Norman C., and C. D. Cupp, assignors to Scott Aviation Corporation, Lancaster, N. Y. Casterable airplane wheel. 2,614,775, Oct. 21.

Kohlhepp, Henry R.: *See*—
Anderson, Wilbur G., Jr., and Kohlhepp.

Koppers Company, Inc., assignee: *See*—
Corson, Ben B., and Webb.
Insinger, Thomas H., Jr.
Nickels, Joseph E.
Royer, Leslie W.
Swietoslawski, Wojciech.

Kostka, Otto R., assignor to Marvel Jewelry Mfg. Company, Providence, R. I. End connector for watch bracelets. 2,614,307, Oct. 21.

Kraft, Herman T., assignor to The General Tire and Rubber Company, Akron, Ohio. Tire building machine. 2,614,952, Oct. 21.

Kramer, Betty and J., Rego Park, N. Y. Lady's underslip. 2,614,257, Oct. 21.

Kramer, Jonas: *See*—
Kramer, Betty and J.

Krantz, Walter M., Ferndale, Mich. Tensioning device for storm windows. 2,614,297, Oct. 21.

Krelder, Marlin L.: *See*—
Schafer, Robert E., and Krelder.

Kreldler, Earl M., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa. Repeat valve shutoff mechanism. 2,614,728, Oct. 21.

Krisan, George A., Riverside, Ill. Making mobile starch powders. 2,614,945, Oct. 21.

Krueger, August, Chicago, Ill. Burglar alarm system. 2,615,083, Oct. 21.

Labour, Jean P., Washington, D. C., assignor to Gasoline Research Industrial & Commercial Company, Inc., Panama, Panama. Obturator for high viscosity liquids. 2,614,789, Oct. 21.

Ladewig, Archie, Co., assignee: *See*—
Ladewig, Archie E.

Ladewig, Archie E., assignor to Archie Ladewig Co., Waukesha, Wis. Bottle feeding mechanism for washing machines. 2,614,678, Oct. 21.

Lagan, David A., Jr., Santa Rosa, Calif. Heated carrying case. 2,615,112, Oct. 21.

Lakewood Manufacturing Co., assignee: *See*—
Parker, Frank H.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Photographic product comprising an additive color screen, a silver halide layer, and a rupturable container, and a process of additive color photography. 2,614,926, Oct. 21.

Landgraf, Fred, Los Angeles, Calif. Air screw with automatic pitch mechanism. 2,614,637, Oct. 21.

Lane, Frank W., Newport, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pigmentary materials. 2,615,006, Oct. 21.

Lane, Leslie C., Bethel, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of melamine. 2,615,018, Oct. 21.

Lange, Willy: *See*—
Baur, Fredric J., and Lange.

Larkin, Robert F., Wauwatosa, Wis. Walking cast shoe. 2,614,340, Oct. 21.

Laskowitz, Isidor B., Brooklyn, N. Y. Quick closing substantially balanced gate valve. 2,614,790, Oct. 21.

Laskowski, Stanley C.: *See*—
Clinton, Raymond O., and Laskowski.

Langaudin, Eugene, Toulouse, France. Oleo pneumatic shock absorber. 2,614,833, Oct. 21.

Launder, James M., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Overload release for load actuator. 2,614,672, Oct. 21.

Lawver, James E., Lakeland, Fla., assignor to International Minerals & Chemical Corporation. Recovery of metallic minerals from phosphate-silica ores containing minor amounts of the metallic minerals. 2,614,692, Oct. 21.

Lay, Andy R., Council, Idaho. Scraper attachment for tractors. 2,614,345, Oct. 21.

Laycock, Ernest H., Tampa, Fla. Coil winding reel assembly. 2,614,588, Oct. 21.

Lea, Peggy J., Merriam, Kans., assignor to Phillips Petroleum Company. Low water-loss cement slurry. 2,614,998, Oct. 21.

Lea, Peggy J., Kansas City, Mo., and H. B. Fisher, Bartlesville, Okla., assignors to Phillips Petroleum Company. Low water-loss cement slurry and cementing. 2,614,634, Oct. 21.

Lee, Hans P., Toledo, Ohio. Mouth-protecting device. 2,614,560, Oct. 21.

Lee, Paul R., Mansfield, Ohio assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Snap-acting bimetal thermostat. 2,615,108, Oct. 21.

Legg, Robert, Limited, assignee: *See*—
Schreiber, Patrick Q. R.

Leggett & Platt, Inc., assignee: *See*—
Kirchner, Carl O.

Le Loup, Theodore E.: *See*—
Marinace, John C., and Le Loup.

Lenart, Anthony, and B. Heilman, assignors to L. A. Young Spring & Wire Corporation, Detroit, Mich. Clip forming and applying machine. 2,614,254, Oct. 21.

Leverson, Alton: *See*—
Barnard, John D., and Leverson.

Levey, Fred'k H., Co., Inc., assignee: *See*—
Brodie, George R.

Levin, Robert H.: *See*—
Marlatt, Paul E., Hanze, McIntosh, and Levin.

Lewis, Gordon M.: *See*—
Marchant, Francis C. L., and Lewis.

Libby, Albion D. T., assignee: *See*—
Chiego, Bernard.

Librascope, Incorporated, assignee: *See*—
Opocensky, Willard J.

Limpert Brothers, Incorporated, assignee: *See*—
Moser, Frank T.

Lindblom, Frank W., Cranston, R. I., assignor to Welsh Manufacturing Company, Brow-bar support for goggles. 2,614,314, Oct. 21.

Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Antenna and matching circuit. 2,615,131, Oct. 21.

Linder, Ernest G., Princeton, N. J., assignor to Radio Corporation of America. Magnetron. 2,615,144, Oct. 21.

Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Cyclic olefins. 2,615,055, Oct. 21.

Lippey, David, Glendale, Calif. Fishing line. 2,614,451, Oct. 21.

Lipshitz, Abraham, Flushing, N. Y. Multiple pocket panel construction. 2,614,260, Oct. 21.

Little, Charles E.: *See*—
Rankin, Donald H., and Little.

Livers, Carlos B., North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Adjustable stroke hydraulic motor. 2,614,536, Oct. 21.

Liversidge, Joseph H., Sheffield, England, assignor to General Electric Company. Positional correspondence control system. 2,615,150, Oct. 21.

Livingston, Herman H., Bronx, N. Y. Intramedullary bar. 2,614,559, Oct. 21.

Livingston, Waltrus L., assignor to General Railway Signal Company, Rochester, N. Y. Switch and signal control system for railroads. 2,615,124, Oct. 21.

Lolmaugh, Francis B., Plymouth, Ind. Animal simulating velocipede. 2,614,855, Oct. 21.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Discriminating service telephone system. 2,615,092, Oct. 21.

Lomazzo, Edmund J., assignor to Sparks Machine Tool Corporation, Norwalk, Conn. Tailstock. 2,614,447, Oct. 21.

Long, John B., Fayetteville, W. Va. Guard for power-driven conveyers. 2,614,686, Oct. 21.

Longenecker, Charles I., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Drum for inclined axis concrete mixers. 2,614,819, Oct. 21.

Lonskey, William H., Jr., administrator: *See*—
Lonskey, William H., Sr.

Lonskey, William H., Sr., deceased, Detroit, Mich; W. H. Lonskey, Jr., administrator. Drain pan attachment for cooking vessels. 2,614,482, Oct. 21.

Loock, Oscar H., Houston, Tex. Mold trimmer. 2,614,326, Oct. 21.

Loop, Harvey K., Astoria, Oreg. Fry shield. 2,614,718, Oct. 21.

Loosjes, Robert, and A. J. v. Genuchten, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Thermionic cathode. 2,614,942, Oct. 21.

Lorentzen, Hardware M'f'g. Corp., assignee: *See*—
Nelson, Harry.

Lovell, Edgar S., Brattleboro, Vt. Fracture supporting device. 2,614,558, Oct. 21.

Lowe, Erwin A., Santa Rosa, Calif. Awning or canopy. 2,614,299, Oct. 21.

Lowe, Wesley G., and K. P. Griffin, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing polyvinyl alcohol-silver halide photographic emulsions. 2,614,930, Oct. 21.

Lowe, Wesley G., and G. F. Frame, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing cellulose ester-silver-halide photographic emulsions. 2,614,931, Oct. 21.

Luboshez, Benjamin E., assignor to Eastman Kodak Company, Rochester, N. Y. Centrifugal spray processing apparatus for sensitized materials. 2,614,472, Oct. 21.

Lubzinski, James F., Steveston, British Columbia, Canada. Ship's steering wheel hub. 2,614,439, Oct. 21.

Lumalampan Aktiebolag, assignee: *See*—
Hörberg, Erik A.

Lutz, Leland J., Grand Island, N. Y., assignor to Mathieson Chemical Corporation. Preparation of ethylene urea. 2,615,025, Oct. 21.

Lynch Corporation, assignee: *See*—
Sandberg, Oscar.

Lytle, Lawrence D.: *See*—
Bluemmel, Francis P., and Lytle.

Lytle, Lawrence D., Plainfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Producing noncrystallizing copper phthalocyanine. 2,615,026, Oct. 21.

Lytle, Melba L.: *See*—
Caldwell, Joseph A., and Lytle.

Lytle, Melba L., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Inhibiting corrosion in oil wells. 2,614,980, Oct. 21.

Lytle, Melba L., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Inhibiting corrosion in oil wells. 2,614,981, Oct. 21.

Lytle, William O., New Kensington, assignor to Pittsburgh Plate Glass Co., Allegheny County, Pa. Applying electroconductive films. 2,614,944, Oct. 21.

M B G Corporation, assignee: *See*—
Mitchell, Wallace F.

Macarthur, George D., Glendale, Calif. Opacity sensing device. 2,614,453, Oct. 21.

Maccaferri, Mario, Rye, assignor to French American Reeds Manufacturing Co., Inc., New York, N. Y. Bridges for stringed musical instruments. 2,614,448, Oct. 21.

Machálek, Ferdinand, Blatno, Czechoslovakia. String instrument. 2,614,449, Oct. 21.

MacHarg, James A., Gosforth, Newcastle-on-Tyne, England. Display device. 2,614,352, Oct. 21.

MacKenzie, Charles A.: *See*—
Spialter, Leonard, and MacKenzie.

Macksoud, Michel E., Flushing, N. Y. Pocket sun health lamp. 2,615,120, Oct. 21.

Macksoud, Michel E., Newburyport, Mass., assignor to Cooper-Hewitt Electric Company, Hoboken, N. J. Thermostatic switch. 2,615,146, Oct. 21.

MacRae, Charles B.: *See*—
Havemann, Robert A., Bruce, and MacRae.

Macrow, Lawrence, Glenside, Pa., assignor to Carrier Corporation, Syracuse, N. Y. Ventilation system for boarding machines. 2,614,336, Oct. 21.

Madsen, Alvin R., Rupert, Idaho. Bean and pea plant cutter. 2,614,376, Oct. 21.

Magerlein, Barney J.: *See*—
Weisblat, David I., and Magerlein.

Magnus, Elmer G., assignor to The W. J. Fitzpatrick Company, Chicago, Ill. Apparatus for breaking up frozen foods. 2,614,597, Oct. 21.

Mahan, John E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Production of substituted pyridines. 2,615,022, Oct. 21.

Maher, Joseph L., and C. O. Meyers, assignors to National Tank Company, Tulsa, Okla. Recovering gaseous hydrocarbons. 2,614,658, Oct. 21.

Main, Robert C., Los Angeles, Calif., assignor to Robertshaw-Fulton Controls Company. Safety control system for electrically operated heating means. 2,614,621, Oct. 21.

Malm, Royal D.: *See*—
Peach, William H., and Malm.

Malone, Harold L., and E. S. Marvin, assignors to Eastman Kodak Company, Rochester, N. Y. Flash lamp firing circuit. 2,614,409, Oct. 21.

Maloney-Crawford Tank & Manufacturing Company, assignee: *See*—
Wilson, Samuel A.

Mamola, Peter J., Astoria, assignor to Western Electric Company, Incorporated, New York, N. Y. Vulcanizing apparatus. 2,615,082, Oct. 21.

Mankowich, Abraham, Darlington, Md., assignor to the United States of America as represented by the Secretary of the Army. Paint stripping compositions. 2,614,992, Oct. 21.

Manning, Robert M., Pampa, Tex. Arrester trap float valve. 2,614,853, Oct. 21.

Mapson, Donald L., Los Angeles, Calif. Wall display fixture. 2,614,701, Oct. 21.

Marbellte Company, Inc., The, assignee: *See*—
Diebold, Anton.

Marchant, Francis C. I., and G. M. Lewis, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Aircraft cabin pressurizing and air conditioning apparatus. 2,614,815, Oct. 21.

Margison, Arthur D., and A. Craigon, assignors to Margison & Babcock, Toronto, Ontario, Canada. Mechanism for raising aircraft hangar doors. 2,614,835, Oct. 21.

Margison & Babcock, assignee: *See*—
Margison, Arthur D., and Craigon.

Marinace, John C., and T. E. Le Loup, Schenectady, N. Y., assignors to General Electric Company. Crucible for the purification of molten substances. 2,615,060, Oct. 21.

Marine Optical Manufacturing Co., assignee: *See*—
Ditto, Eugene D.

Markert, John E. R., Lititz, and J. D. Smith, assignors to Hamilton Watch Company, Lancaster, Pa. Semiautomatic pivot polisher. 2,614,465, Oct. 21.

Markowitz, Joseph, New York, N. Y. Camera and lamp supporting device. 2,614,471, Oct. 21.

Marlatt, Paul E., A. R. Hanze, A. V. McIntosh, Jr., and R. H. Levin, assignors to The Upjohn Company, Kalamazoo, Mich. Steroid compounds. 2,615,017, Oct. 21.

Marong, Michael P., Warsaw, N. Y. Ball and runway toy and handle therefor. 2,614,361, Oct. 21.

Marsh, Nat H., Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y. Preparation of guanidine thiocyanate. 2,615,044, Oct. 21.

Marshall, Walter R.: *See*—
Allen, Ivey, Jr., Marshall, and Wightman.

Martin, Thomas A.: *See*—
Hunter, Joseph L., and Martin.

Martindale, Harvey E., and F. E. Janquart, Marinette, assignors to J. H. Jerred, Madison, Wis. Radiant plate and baffle for heating burners. 2,614,514, Oct. 21.

Marvel Jewelry Mfg. Company, assignee: *See*—
Kostka, Otto R.

Marvin, Edgar S.: *See*—
Malone, Harold L., and Marvin.

Master Rule Manufacturing Co., Inc., assignee: *See*—
Nicholson, Ragnar C.

Mastrangelo, Sebastian V. R.: *See*—
Aston, John G., and Mastrangelo.

Mathews, Harry A., Garvey, M. B. Riordan, Jr., Bell, and L. B. Scott, South Gate, assignors to Byron Jackson Co., Vernon, Calif. Sound indicator and fluid level indicator for wells. 2,615,080, Oct. 21.

Mathieson Chemical Corporation, assignee: *See*—
Lutz, Leland J.

Mathisen, Arne L., Sandvika, Norway. Vehicle. 2,614,857, Oct. 21.

Maxim Motor Company, assignee: *See*—
Arps, Edmund J.

May, Edward M., assignor to Meco-Pilot Manufacturing Company, Detroit, Mich. Charging valve in refrigeration apparatus. 2,614,400, Oct. 21.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

Mazzei, Oswald, assignor to Aircraft Hardware Mfg. Co. Inc., New York, N. Y. Wire holding and prestressing device. 2,614,801, Oct. 21.

McCammon, Robert F.: *See*—
Johnson, Charles E., Haraden, and McCammon.

McCloud, Robert A.: *See*—
De Back, William P., and McCloud.

McConnaughy, Walter H., Washington, D. C. Leaf holder for desk calendars. 2,614,566, Oct. 21.

McConnell, Frank, assignor to The American Hardware Corporation, New Britain, Conn. Latch. 2,614,876, Oct. 21.

McCord, Jesse L., Covington, Ga. Tool for extracting bushings. 2,614,318, Oct. 21.

McGihon, Leonard, San Leandro, assignor to King Sales & Engineering Co., San Francisco, Calif. Hoist. 2,614,802, Oct. 21.

McGrath, Henry G.: *See*—
Rubin, Louis C., Riblett, and McGrath.

McGrath, William L., assignor to Carrier Corporation, Syracuse, N. Y. Capacity control for air conditioning systems. 2,614,394, Oct. 21.

McIntosh, A. Vern, Jr.: *See*—
Marlatt, Paul E., Hanze, McIntosh, and Levin.

McKee, Arthur G., & Co., assignee: *See*—
Baier, John F.

McKee, Edward S., assignor to Eastman Kodak Company, Rochester, N. Y. Footage indicator for motion-picture apparatus. 2,614,752, Oct. 21.

McLaughlin, Donald: *See*—
Rogers, Arthur P., and McLaughlin.

McLeod, Roderick C., Cropston, Leicester, G. B. R. Feilden, Lutterworth, near Rugby, and J. Hodge, Narborough, Leicester, assignors to Power Jets (Research and Development) Limited, London, England. Supporting and reinforcing structure for gas turbine engines. 2,614,386, Oct. 21.

McMath, Charles W., Fort Worth, Tex. Bin level switch. 2,615,102, Oct. 21.

McMillan, Edwin M., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Synchro-cyclotron. 2,615,129, Oct. 21.

McTighe, Edward F., New York, N. Y. Tubular cloth casing. 2,614,261, Oct. 21.

Means, Eldon A.: *See*—
Welsh, Dolan H., and Means.

Meco-Pilot Manufacturing Company, assignee: *See*—
May, Edward M.

Meehan, John J., Chicago, Ill. Selective sterilization of food products. 2,614,938, Oct. 21.

Meggitt, Harry E., Portland, Oreg. Control means for vehicle mirrors, fog lights, and the like. 2,614,437, Oct. 21.

Meinecke, Helmuth A., Grosse Pointe, Mich. Hydraulic valve tappet operable to vary valve-lift and valve-timing. 2,614,547, Oct. 21.

Melendy, Norman G., Lowell, assignor to H. E. Fletcher Company, West Chelmsford, Mass. Drill. 2,614,811, Oct. 21.

Mellor, Albert: *See*—
Ewing, Henry, and Mellor.

Meopta, national corporation, assignee: *See*—
Kadlec, Zdenek, and Dousa.

Mercer, Norman J., Brooklyn, N. Y. Child's feeding tray. 2,614,407, Oct. 21.

Merrill, Charles A.: *See*—
Merrill, Wallace D. and C. A.

Merrill, Wallace D., Monrovia, and C. A. Merrill, Santa Barbara, Calif. Agricultural scaffold. 2,614,893, Oct. 21.

Merry, Clayton B., Alderwood Manor, Wash. Walking cultivator. 2,614,474, Oct. 21.

Metra, narodni podnik, assignee: *See*—
Barvitius, František.

Metropolitan-Vickers Electrical Company Limited, assignee: *See*—
Burrows, Godfrey.

Mettenleiter, Michael W.: *See*—
Del Pozo, Albert, Jr., and Mettenleiter.

Metzenberg, Robert L.: *See*—
Kidd, Wesley E., and Metzenberg.

Metzger, William J., East Cleveland, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Closure means for car couplers. 2,614,716, Oct. 21.

Meyer, Geo J., Manufacturing Co., assignee: *See*—
Keil, Clarence E.

Meyers, Charles O.: *See*—
Maher, Joseph L., and Meyers.

Miller, Carroll E., assignor to Cone Automatic Machine Company Inc., Windsor, Vt. Multiple spindle lathe. 2,614,446, Oct. 21.

Miller, Charles E., Pittsburgh, Pa., assignor to United States Steel Company. Knockdown type platform for metal sheets and the like. 2,614,689, Oct. 21.

Miller, Earl E.: *See*—
Curtis, John C., and Miller.

Miller, Ernest F., Lansdowne, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rotor construction. 2,614,796, Oct. 21.

Miller, Frank, Orange, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Load indicating device. 2,614,420, Oct. 21.

Miller, Frederick B., Chicago, Ill. Power transmission. 2,614,388, Oct. 21.

Miller, Frederick B., Chicago, Ill. Mining machine. 2,614,822, Oct. 21.

Miller, Henry C. L., and H. A. Raddin, Richmond, Va., assignors to The Hofft Company, Inc., Indianapolis, Ind. Method of and vortex-type furnace for burning waste fuel. 2,614,513, Oct. 21.

Miller, Hoke S., Stamford, Conn., assignor to Air Reduction Company, Inc., New York, N. Y. Vinyl chloride preparation. 2,615,054, Oct. 21.

Miller, Richard F., Harvard, Nebr. Method and apparatus for testing and locating faults in continuous conductors. 2,615,076, Oct. 21.

Miller, Robert E., Sierra Madre, Calif. Folding door. 2,614,627, Oct. 21.

Miller, Robert S., Portland, Oreg. Conveyer flight and chain link. 2,614,685, Oct. 21.

Miller, William, Corporation, assignee: *See*—
Miller, William W.

Miller, William W., Los Angeles, assignor to William Miller Corporation, Pasadena, Calif. Optical imaging system. 2,614,460, Oct. 21.

Mills, Bert, Corporation, The, assignee: *See*—
Mills, Bert E.

Mills, Bert E., St. Charles, assignor to The Bert Mills Corporation, Chicago, Ill. Beverage dispensing machine. 2,614,738, Oct. 21.

Milne, John C., assignor to The Electric Construction Company Limited, Wolverhampton, England. Direct current electrical supply system. 2,615,066, Oct. 21.

Miner, W. H., Inc., assignee: *See*—
Withall, William E.

Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Rumsey, Victor H.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Stanton, Leonard.
Wannamaker, William H., Jr.

Mitchell, Jack C.: *See*—
Grizzard, Earle D., Collar, and Mitchell.

Mitchell, Len B., Wheaton, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Station identification for party lines. 2,615,094, Oct. 21.

Mitchell, Wallace F., assignor to M B G Corporation, Chicago, Ill. Spring. 2,614,830, Oct. 21.

Mock, Ray E.: *See*—
Hall, Robert C., and Hall.

Mohawk Carpet Mills, Inc., assignee: *See*—
Ammerall, Albert J.

Molins, Desmond W., F. F. Ruau, N. W. Jackson, and C. G. Bruce, Deptford, London, assignors to Molins Machine Company Limited, London, England. Receptacle. 2,614,703, Oct. 21.

Molins Machine Company Limited, assignee: *See*—
Hall, Charles T.
Molins, Desmond W., Ruau, Jackson, and Bruce.

Monkres, Omey M., assignor of fifty per cent to A. P. Smith, Long Beach, Calif. Ball game device. 2,614,840, Oct. 21.

Monsanto Chemical Company, assignee: *See*—
Kaberg, Russell A.

Montclair Research Corporation, assignee: *See*—
Spialter, Leonard, and MacKenzie.

Montenyohl, Victor I., West Chester, Pa., and C. M. Olson, Newark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of silica sols from silicon metal. 2,614,993, Oct. 21.

Moore, Arthur R.: *See*—
Chadwick, Lee S., Cheeseman, and Moore.

Moore, Francis J., Minneapolis, Minn. Holder for roll toilet tissue. 2,614,762, Oct. 21.

Moore, Harrington, Medford, Mass. Making wing nuts. 2,614,274, Oct. 21.

Moore, Jess C., Birmingham, Ala. Wrench for truck wheel nuts. 2,614,444, Oct. 21.

Morner, Hans G., New York, N. Y. Upholstery unit. 2,614,272. Oct. 21.

Morrell, Charles E., Westfield, and L. M. Welch, Madison, N. J., assignors to Standard Oil Development Company. Separating C_5 diolefins. 2,614,969, Oct. 21.

Morrell, Charles E., Westfield, N. J., J. Stewart, Brooklyn, N. Y., and C. S. Carlson, Elizabeth, N. J., assignors to Standard Oil Development Company. Extractive distillation of alcohol-aldehyde solutions. 2,614,970, Oct. 21.

Morrison, William A., Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Cleansing device for rock drills. 2,614,535, Oct. 21.

Morton, James E., Abilene, Tex. Fluid operable motor embodying annular series of opposed coaxial cylinders and pistons. 2,614,540, Oct. 21.

Morway, Arnold J.: *See*—
Beerbower, Alan, and Morway.

Moser, Frank T., Easton, Pa., assignor to Limpert Brothers, Incorporated, New York, N. Y. Cup depressor. 2,614,740, Oct. 21.

Moss, Philip H.: *See*—
Hook, Edwin O., and Moss.

Mosselt, Steve, Akron, Ohio. Windshield cover. 2,614,630, Oct. 21.

Motor Car Corporation, assignee: *See*—
Ardussi, Wallace F.

Motor Products Corporation, assignee: *See*—
Whitmore, Harland W.

Mott, Carl W., La Grange Park, assignor to Elgin Sweeper Company, Elgin, Ill. Street sweeping machine. 2,614,279, Oct. 14.

Mowbray, Harry L., Medford, Okla. Rod weeder for chisel plows. 2,614,475, Oct. 21.

Moyle, Clarence L., Clare, assignor to The Dow Chemical Company, Midland, Mich. O,O-Di(4-chlorophenyl) N-alkylamidothiophosphates. 2,615,037, Oct. 21.

Moyle, Clarence L., Clare, assignor to The Dow Chemical Company, Midland, Mich. O,O-Di(polyhalophenyl) N-substituted amidothiophosphates. 2,615,038, Oct. 21.

Mudry, Rodolfo A.: *See*—
Giaccaglia, Mario C. L., and Mudry.

Mueller, Charles, Oak Ridge, N. J. Hair clipper attachment. 2,614,323, Oct. 21.

Mueller Co., assignee: *See*—
Grosboll, Lorin E.
Mueller, Robert H.

Mueller, Robert H., assignor to Mueller Co., Decatur, Ill. Valve. 2,614,852, Oct. 21.

Mullen, James T., assignor to The Dyment Company, Cleveland, Ohio. Advertising display device. 2,614,351, Oct. 21.

Mullerheim, Kurt, New York, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Conveyer switching system. 2,614,506, Oct. 21.

Mullins, Gerald L., Camden, Ark. Screw pump. 2,614,499, Oct. 21.

Murphy, Gilbert C., Indianapolis, Ind. Registering color plates. 2,614,491, Oct. 21.

Murray, Alfred T., Pasadena, Calif. Self-renewing valve. 2,614,791, Oct. 21.

Murray, Gilbert: *See*—
Coote, Jack H., and Murray.

Musselwhite, Joseph A.: *See*—
Musselwhite, Yolanda H. and J. A.

Musselwhite, Yolanda H. and J. A., Washington, D. C. Doll with movable arms. 2,614,365, Oct. 21.

Nadeau, Gale F., C. B. Starck, and C. F. Smith, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic stripping film. 2,614,932, Oct. 21.

Nash-Kelvinator Corporation, assignee: *See*—
Wahlberg, Nils E.

National Cash Register Company, The, assignee: *See*—
Saxby, Frank R.
Wallace, James.

National Distillers Products Corp., assignee: *See*—
Rosten, Maurice M.

National Gypsum Company, assignee: *See*—
O'Farrell, Elgin G.

National Inventions Corporation, assignee: *See*—
Bridges, John H.

National Malleable and Steel Castings Company, assignee: *See*—
Metzger, William J.

National Motor Bearing Co., Inc., assignee: *See*—
Helfrecht, Fred A.

National Tank Company, assignee: *See*—
Maher, Joseph L., and Meyers.
Walker, Jay P., and Glasgow.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Dean, Walter N.
Hollmann, Hans E.

Nell, Robert H., Tampa, Fla. Headrest for creepers. 2,614,271, Oct. 21.

Nelson, Donald O.: *See*—
Stamper, Hamilton A., Blackman, and Nelson.

Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Venetian blind head bar organization. 2,614,623, Oct. 21.

Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Venetian blind hold-down bracket. 2,614,784, Oct. 21.

Nelson Muffler Corporation, assignee: *See*—
Bryant, Edwin E.

Neutelings, Willem, assignor to Industrie-en Handelmaatschappij "De Vuurslag" C. V., Bergen op Zoom, Netherlands. Device for molding shapes from plastic material. 2,614,511, Oct. 21.

Newcomb, Walter C., and C. F. Fitter, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Timing mechanism for multiple grid cameras. 2,614,468, Oct. 21.

Newport, Clayton A.: *See*—
Jones, Arden T., and Newport.

Ney, William O.: *See*—
Freyermuth, Harlan B., and Ney.

Nichols, William M., Schenectady, assignor to American Locomotive Company, New York, N. Y. Fuel injector. 2,614,888, Oct. 21.

Nicholson, Edward W. S., and R. J. Fritz, Baton Rouge, La., and L. D. Etherington, Cranford, N. J., assignors to Standard Oil Development Company. Adsorption of gases with charcoals having different activities. 2,614,657, Oct. 21.

Nicholson, Ragnar C., assignor to Master Rule Manufacturing Co., Inc., Middletown, N. Y. Spring lock for steel tape ribbon. 2,614,769, Oct. 21.

Nickels, Joseph E., assignor to Koppers Company, Inc., Pittsburgh, Pa. Isomerization of aromatic compounds. 2,615,056, Oct. 21.

Niles-Bement-Pond Company, assignee: *See*—
Chandler, Milton E., and Hunt.

Nissen, Warren I., assignor to Ronson Art Metal Works, Inc., Newark, N. J. Cigar lighter windshield structure. 2,614,408, Oct. 21.

Nordell, Carl H., Palm Springs, Calif. Rotary screen comminuting device. 2,614,695, Oct. 21.

Norelius, Emil F., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Mounting for vertically movable tandem wheels. 2,614,641, Oct. 21.

North American Aviation, Inc., assignee: *See*—
Beaupre, Merle A.

North American Geophysical Company, assignee: *See*—
Cloud, Raymond T.

Noxon, Paul A., Tenafly, assignor to Bendix Aviation Corporation, Teterboro, N. J. Navigation system. 2,614,335, Oct. 21.

Nulph, Harry F., East Liverpool, Ohio. Water-cooled lintel and skewback channel cooler. 2,614,545, Oct. 21.

Obodzinski, Anton, Chicago, Ill. Merchandise vending machine. 2,614,673, Oct. 21.

O'Brien, William C., Baltimore, Md. Supporting stand for telephones and lamps. 2,615,098, Oct. 21.

O'Connor, Arthur F., Chicago, Ill., assignor to Union Asbestos & Rubber Company. Door for refrigerator cars. 2,614,294, Oct. 21.

Oehler, William P., assignor to Deere & Company, Moline, Ill. Disk harrow angling arm. 2,614,377, Oct. 21.

Oetiker, Hans, Horgen, Switzerland. Hose clip. 2,614,304, Oct. 21.

O'Farrell, Elgin G., Whittemore, Mich., assignor to National Gypsum Company, Buffalo, N. Y. Apparatus for continuously delivering plastic cementitious material to a moving molding surface. 2,614,757, Oct. 21.

Office National d'Etudes & de Recherches Aeronautiques, assignee: *See*—
Richard, Gilbert.

Ogle, Hugh M., Schenectady, N. Y., assignor to General Electric Company. Voltage regulator. 2,615,155, Oct. 21.

Ohmega Laboratories, assignee: *See*—
Foster, Harry R., and Crump.

O'Kelley, Loren W., Porterville, Calif. Pumping apparatus. 2,614,496, Oct. 21.

Oldham, Samuel R.: *See*—
Jacobsson, Wilgot J., Hoffman, and Oldham.

Oliver Iron and Steel Corporation, assignee: *See*—
Berry, Frank.

Olson, Carl M.: *See*—
Montenyohl, Victor L., and Olson.

Oltz, Howard R., and H. J. Fanger, Los Gatos, Calif. Railway spike. 2,614,450, Oct. 21.

Onsrud Machine Works, Inc., assignee: *See*—
Groen, Willem.

Opocensky, Willard J., assignor to Librascope, Incorporated, Glendale, Calif. Rotatable electrical potentiometer connection. 2,615,070, Oct. 21.

Orent, Henry P.: *See*—
Hillmer, Herman H., and Orent.

Oster Manufacturing Company, The, assignee: *See*—
Chasar, Anthony R.

Oxley, Horace F.: *See*—
Thomas, Edward B., and Oxley.

Package Machinery Company, assignee: *See*—
Palmer, Charles E.

Packer, John K., Norton, Mass. Automatic tourniquet. 2,614,565, Oct. 21.

Paladino, Albert J., Brooklyn, N. Y. Combined fire alarm and extinguisher holder. 2,614,519, Oct. 21.

Palmer, Charles E., Glenview, Ill., assignor, by mesne assignments, to Package Machinery Company, East Longmeadow, Mass. Container forming appartus. 2,614,466, Oct. 21.

Paluev, Konstantin K., Pittsfield, Mass., assignor to General Electric Company. Gas bubble elimination in liquid-cooled electrical apparatus. 2,615,075, Oct. 21.

Papesch, Viktor, Morton Grove, and E. F. Schroeder, assignors to G. D. Searle & Co., Chicago, Ill. Derivatives of 2-thio-6-amino-1,2,3,4-tetrahydro-2,4-pyrimidinedione. 2,615,020, Oct. 21.

Paquette, Conrad T.: *See*—
Paquette, Robert G. and C. T.

Paquette, Robert G., Windsor, Vt., and C. T. Paquette, Claremont, N. H. Trimming device. 2,615,111, Oct. 21.

Pararra, Julius, assignor to Pararra-Lefer, Incorporated, Bridgeport, Conn. Moistureproof salt shaker. 2,614,732, Oct. 21.

Pararra-Lefer, Incorporated, assignee: *See*—
Pararra, Julius.

Pardue, Elbert M., Wilkesboro, N. C., and R. O. Higgins, Chase City, Va. Automatic control for headlights of motor vehicles. 2,615,079, Oct. 21.

Parker, Frank H., Cleveland Heights, assignor of one-half to S. C. Peplin, doing business as Lakewood Manufacturing Co., Westlake, Ohio. Mixing valve. 2,614,851, Oct. 21.

Parker, George H., assignor to Container Corporation of America, Chicago, Ill. Can carrier with foldable handle. 2,614,737, Oct. 21.

Parramore, Thomas S.: *See*—
Clarke, William H. V., and Parramore.

Pasotti, Felice G., Muncie, Ind., assignor to Ball Brothers Company. Vacuum pack machine. 2,614,739, Oct. 21.

Patnode, Homer W., Hampton Township, Allegheny County, and M. R. J. Wyille, Indiana Township, Allegheny County, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Electrode for determining cationic activity. 2,614,976, Oct. 21.

Patterson, Ward S., and E. M. Powell, Chappaqua, N. Y., assignors to Combustion Engineering-Superheater, Inc. Superheater baffling. 2,614,544, Oct. 21.

Pavlak, Joseph P., South St. Paul, Minn. Hose reeling apparatus. 2,614,434, Oct. 21.

Pavlecka, John, Oak Park, Mich. Rotary hydraulic torque converter transmission. 2,614,391, Oct. 21.

Payne, Viron E., Sun Valley, Calif. Fuel duration meter. 2,614,422, Oct. 21.

Peabody, Howard B., Lake Forest, assignor to The Pioneer Company, Chicago, Ill. Switch mechanism for model railroads. 2,615,125, Oct. 21.

Peach, William H., Chicago, and R. D. Malm, assignors to Clayton Mark & Co., Evanston, Ill. Tubular joint. 2,614,827, Oct. 21.

Pendleton, Walter A., Glendale, Calif. Spring cutter. 2,614,322, Oct. 21.

Penick, Joe E., Woodbury, and E. V. Bergstrom, Short Hills, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Apparatus for recovery of solid material from continuous contact filtration process. 2,614,653, Oct. 21.

Penn Controls, Inc., assignee: *See*—
King, Harold S.

Peplin, Stephen C., assignee: *See*—
Parker, Frank H.

Perenil, Edmund, Bayside, N. Y., and H. Weimann, Brentwood, Mo., assignors, by mesne assignments, to General Bronze Corporation, Garden City, N. Y. Corner joint. 2,614,666, Oct. 21.

Perfection Stove Company, assignee: *See*—
Chadwick, Lee S., Cheeseman, and Moore.

Perkins, Albert G., Grand Island, N. Y. Control unit for milking machines. 2,614,530, Oct. 21.

Perri, Frank B., Groveland, assignor to S. L. Cartier, Haverhill, Mass. Lifting device for invalids. 2,614,267, Oct. 21.

Perrin, Tom S., Palmesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Coagulating polyvanadic acid salts. 2,614,905, Oct. 21.

Pessoa, Augusto L., Rio de Janeiro, Brazil. Guiding and feeding mechanism for endless typewriter ribbons. 2,614,676, Oct. 21.

Peters, Rudolph A., San Antonio, Tex. Brake shoe gauge. 2,614,333, Oct. 21.

Peterson, Carl E., Upper Montclair, and E. C. Kastner, Bloomfield, assignors to Eastern Tool & Mfg. Co., Belleville, N. J. Rod positioning frame. 2,614,779, Oct. 21.

Peterson, David G., Wellsville, assignor to The Air Preheater Corporation, New York, N. Y. Brazing jig for finned heat exchanger envelopes. 2,614,517, Oct. 21.

Peterson, Einar C., assignor of one-third to R. P. Ellwein and one-third to W. L. Johnson, Mitchell, S. Dak. Repair member for bottle cases. 2,614,713, Oct. 21.

Peterson, Henry B.: *See*—
Tuve, Richard L., and Peterson.

Peterson, Joel D.: *See*—
Bechberger, Paul F., and Peterson.

Petty, Richard E., Columbus, Ga. Refrigerated sales display kit. 2,614,397, Oct. 21.

Pfeffer, Václav, Zelena, Prague, Czechoslovakia. Method and device for wireless control of master clocks. 2,614,383, Oct. 21.

Philco Corporation, assignee: *See*—
Scofield, Donald W.

Phillips Laboratories, Inc., assignee: *See*—
Evans, Howard T., Jr.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring. 2,614,899, Oct. 21.

Phillips Petroleum Company, assignee: *See*—
Aston, John G., and Mastrangelo.
Berkemeyer, Robert.
Fleming, Harold W., and Friedman.
Hutchinson, William M.
Lea, Peggy J.
Lea, Peggy J., and Fisher.
Mahan, John E.
Railsback, Darrell C.
Ruehlen, Forrest N.
St. Clair, Theodore A.
St. John, Willard M., Jr., and Uraneck.
Samuels, Sherwood C., Jr.
Simms, Russell K.
Troyan, James E.
Weber, Louis J.

Pianfetti, John A., and D. J. Porter, South Charleston, W. Va., assignors to Food Machinery and Chemical Corporation, New York, N. Y. Producing chlorinated acetaldehydes utilizing chlorinated acetaldehydes as diluents. 2,615,048, Oct. 21.

Pianfetti, John A., and D. J. Porter, South Charleston, W. Va., assignors to Food Machinery and Chemical Corporation, Wilmington, Del. Producing chloral. 2,615,049, Oct. 21.

Piccardo, Jack E., Oakland, Calif., assignor, by mesne assignments, to Barnes-Shasta Pump Co. Combination valve and air charger. 2,614,498, Oct. 21.

Pierce, Harold F.: *See*—
Berchem, Hubert C., Jr., and Pierce.

Pierce, Mary B., executrix, assignee: *See*—
Pierce, Winslow S., Jr.

Pierce, Wayne M., Jr., assignor to Tey Manufacturing Corporation, Milford, Conn. Ski binding. 2,614,858, Oct. 21.

Pierce, Winslow S., Jr., deceased, Keene, N. H., M. B. Pierce, executrix, assignor to M. B. Pierce. Adjustable dampening bearing support. 2,614,896, Oct. 21.

Pioneer Company, The, assignee: *See*—
Peabody, Howard B.

Pittsburgh Plate Glass Co., assignee: *See*—
Lytle, William O.

Poitras, Edward J., Jackson Heights, and J. D. Tear, Great Neck, N. Y., assignor to The Sperry Corporation. Reversible hydraulic drive, including follow-up system. 2,614,390, Oct. 21.

Polaroid Corporation, assignee: *See*—
Land, Edwin H.

Polk, Louis F., and W. F. Aller, assignors to The Sheffield Corporation, Dayton, Ohio. Machine tool. 2,614,368, Oct. 21.

Poor & Company, assignee: *See*—
Chester, Allan E.

Porter, David J.: *See*—
Pianfetti, John A., and Porter.

Porter, Wellington W., Junius, N. Y. Harvester for pea vines and the like. 2,614,379, Oct. 21.

Powell, Elno M.: *See*—
Patterson, Ward S., and Powell.

Power Jets (Research and Development) Limited, assignee: *See*—
Feilden, Geoffrey R. R.
McLeod, Roderick C., Feilden, and Hodge.

Powers-Samas Accounting Machines Limited: *See*—
Thomas, Arthur.

Prance, Stanley R.: *See*—
Reindl, Harold J., and Prance.

Prewitt, Richard H., Wallingford, Pa. Rotor parachute. 2,614,636, Oct. 21.

Price, Arthur H., London, assignor, by mesne assignments, to Gaskell & Chambers Limited, Birmingham, England. Apparatus for charging containers with measured quantities of liquid. 2,614,742, Oct. 21.

Price, Gayle B., assignor to The Flexicore Co., Inc., Dayton, Ohio. Expansible mold for casting concrete beams. 2,614,309, Oct. 21.

Printing Engineers Incorporated, assignee: *See*—
Hillmer, Herman H., and Orent.

Procter & Gamble Company, The, assignee: *See*—
Baur, Fredric J.
Baur, Fredric J., and Lange.
Jackson, Frank L.

Proudfoot, Charles B., assignor to The Carborundum Company, Niagara Falls, N. Y. Granular silicon carbide and making same. 2,614,946, Oct. 21.

Puccinelli, Sylvio: *See*—
De Back, William, Puccinelli, and McCloud.

Purcell, Howard M., Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del. Hydraulic press. 2,614,488, Oct. 21.

Purex Corporation, Ltd., assignee: *See*—
Stoneman, Alan C.

Pyle, Carl A., and C. A. Roulston, Wichita, Kans. Mixer feeder for flour mills. 2,614,817, Oct. 21.

Quayle, George F., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Stabilizer for lift trucks. 2,614,643, Oct. 21.

Raddin, Harry A.: *See*—
Miller, Henry C. L., and Raddin.

Radice, Ambrogio, assignor to Ing. S. Immovilli, Milan, Italy. Electric induction motor with totally enclosed liquidproof stator. 2,615,068, Oct. 21.

Radio Corporation of America, assignee: *See*—
Carter, Philip S.
Coleman, John H.
Grimm, Albert C.
Hansell, Clarence W.
Haynes, Harold E.
Hoover, Merle V.
Lindenblad, Nils E.
Linder, Ernest G.
Rogers, Gordon F.
Smith, Lloyd P.

Railsback, Darrell C., Phillips, Tex., assignor to Phillips Petroleum Company. Producing finely divided sulfur. 2,614,908, Oct. 21.

Randall, David I., Easton, Pa., and E. E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Anthraquinone dyestuff for wool. 2,615,021, Oct. 21.

Rankin, Donald H., Long Beach, and C. E. Little, North Hollywood, assignors to American Pipe and Construction Co., South Gate, Calif. Molding tubular concrete articles. 2,614,312, Oct. 21.

Ratermann, Alfred C., St. Louis, Mo. Refrigerating system for motor vehicles. 2,614,396, Oct. 21.

Rattinger, Fred: *See*—
Schenck, Gerhard, and Rattinger.

Ray, James L., Long Beach, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Turbine diaphragm. 2,614,870, Oct. 21.

Raytheon Manufacturing Company, assignee: *See*—
Brown, William C.

Read, John R.: *See*—
Judson, Charles A., Read, and Hunter.

Reed Roller Bit Company, assignee: *See*—
Goolsbee, Charles C.

Reindl, Harold J., and S. R. Prance, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Brightening bath. 2,614,913, Oct. 21.

Reitsma, Hendrik, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Adjustable self-transporting thread store reel. 2,614,313, Oct. 21.

Reliance Pet Supply Inc., assignee: *See*—
Tomkins, Harold.

Renfrew, Edgar E.: *See*—
Randall, David I., and Renfrew.

Research Corporation, assignee: *See*—
Sultzer, Norman W.
Wintermute, Harry A.

Resurrection Mining Company, assignee: *See*—
Tatman, Kenneth L.

Revere Copper and Brass Incorporated, assignee: *See*—
Welden, William A.
Welden, William A., and Wyman.
Wyman, Glenn C.

Riblet, Joel P., Galion, Ohio. Combination hat and coat rack. 2,614,702 Oct. 21.

Riblett, Earl W.: *See*—
Rubin, Louis C., Riblett, and McGrath.

Rice, Cyril M., Montreal, Quebec, Canada, assignor to Sinclair & Valentine Company, New York, N. Y. Making colored aluminum. 2,614,912, Oct. 21.

Rice, John H., Minneapolis, Minn. Cruciform checker board. 2,614,842, Oct. 21.

Richard, Gilbert, Epone, assignor to Office National d'Etudes & de Recherches Aeronautiques, Paris, France. Rotary wing device. 2,614,639, Oct. 21.

Richey, Clarence B., Royal Oak, assignor to Dearborn Motors Corporation, Birmingham, Mich. Belt drive for small diameter adjacent cylinders. 2,614,440, Oct. 21.

Richey, Forrest A.: *See*—
Carroll, Burt H., and Richey.

Riegel, Glen C., Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Steel nut and making. 2,615,119, Oct. 21.

Riemann, Howard C., Milwaukee, assignor to The Fulton Company, West Allis, Wis. Vehicle windshield visor. 2,614,628, Oct. 21.

Rines, Robert H., Brookline, Mass. Color television system. 2,615,087, Oct. 21.

Riordan, John A., Denver, assignor to J. T. Clark, Fort Morgan, Colo. Flywheel spanner wrench with tooth engaging abutment. 2,614,445, Oct. 21.

Riordan, Mathew B., Jr.: *See*—
Mathews, Harry A., Riordan, and Scott.

Ritsch, Howard P., Chicago, Ill. Centrifuge for separating solids. 2,614,748, Oct. 21.

Riverpoint Lace Works, Inc., assignee: *See*—
Hayes, George A., and Schmidt.

Rivington, Arthur A., Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe upper lacing machine with eccentrically mounted needles. 2,614,278, Oct. 21.

Roberts, Bernard, Bronx, N. Y. Top access refrigerator and cover therefor. 2,614,401, Oct. 21.

Robertshaw-Fulton Controls Company, assignee: *See*—
Caparone, Michael J.
Eskin, Samuel G.
Main, Robert C.

Robertson, Reuben B., Fort Lauderdale, Fla. Packing stand. 2,614,611, Oct. 21.

Robins, Samuel D., Lawrence, assignor to Du-Fast, Inc., New York, N. Y. Sanding or rubbing attachment. 2,614,369, Oct. 21.

Robinson, Edgar: *See*—
Robinson, Jack and J.

Robinson, Jack, Washington, D. C., and E. Robinson, Richmond, Va. Record player. 2,614,844, Oct. 21.

Robinson, John C., Jr., and W. S. Ropp, assignors to Hercules Powder Company, Wilmington, Del. Vinyl esters of chemically stabilized rosins and polymers thereof. 2,614,997, Oct. 21.

Robinson, John C., Jr., assignor to Hercules Powder Company, Wilmington, Del. Preparation of vinyl esters of a stabilized rosin acid. 2,615,011, Oct. 21.

Robinson, John C., Jr., assignor to Hercules Powder Company, Wilmington, Del. Preparation of vinyl esters of a stabilized rosin acid. 2,615,012, Oct. 21.

Robinson, Joseph, New York, N. Y. Container closure. 2,614,868, Oct. 21.

Robinson, William H., Dayton, Ohio. Container and closure therefor. 2,614,727, Oct. 21.

Rocks, Ewalt H., Racine, Wis. Drafting lead point shaper. 2,614,534, Oct. 21.

Rockwell Manufacturing Company, assignee: *See*—
Kreidler, Earl M.

Roell, William J., and T. O. Berreau, Minneapolis, Minn. Spray nozzle with pressure operated clean out. 2,614,885, Oct. 21.

Roethel Engineering Corporation, assignee: *See*—
Roethel, John H.

Roethel, John H., assignor to Roethel Engineering Corporation, Detroit, Mich. Ice tray. 2,614,399, Oct. 21.

Rogers, Arthur P., Harris, and D. McLaughlin, Monticello, assignors to Romac Company, Inc., Harris, N. Y. Retractable sling for guns. 2,614,355, Oct. 21.

Rogers, Gordon F., New Hyde Park, N. Y., assignor to Radio Corporation of America. Keyed automatic gain control system. 2,615,089, Oct. 21.

Rolls-Royce Limited, assignee: *See*—
Judson, Charles A., Read and Hunter.
Rubbra, Arthur A.

Romac Company, Inc., assignee: *See*—
Rogers, Arthur P., and McLaughlin.

Román, Manuel Z., New York, N. Y. Detachable broom holder with replaceable broom head. 2,614,282, Oct. 21.

Ronson Art Metal Works, Inc., assignee: *See*—
Nissen, Warren I.

Ropp, Walter S.: *See*—
Robinson, John C., Jr., and Ropp.

Rosenberry, Homer R., Scudder, Ontario, Canada. Material cutting device. 2,614,320, Oct. 21.

Rosing, Warren W., Buffalo, N. Y. Sheet holder for mattress ensembles. 2,614,270, Oct. 21.

Ross Bros. (Ben Rhydding) Limited, assignee: *See*—
Ross, Cyril R.

Ross, Cyril R., assignor to Ross Bros. (Ben Rhydding) Limitted, Ilkley, England. Container partition structure. 2,614,715, Oct. 21.

Rossire, Francis H. S., Leonia, assignor to Bendix Aviation Corporation, Teterboro, N. J. Flight controller for automatic pilot. 2,614,776, Oct. 21.

Rosten, Maurice M., New York, N. Y., assignor to National Distillers Products Corp. Recovering germ oil. 2,615,029, Oct. 21.

Rotareaed Corporation, The, assignee: *See*—
Clark, Carleton L., and Vicario.

Roulston, Claude A.: *See*—
Pyle, Carl A., and Roulston.

Roy, Carlotta L., Toronto, Ontario, Canada. Paper cup dispenser. 2,614,687, Oct. 21.

Royer, Leslie W., Aliquippa, assignor to Koppers Company, Inc., Pittsburgh, Pa. Gas separation. 2,614,904, Oct. 21.

Ruan, Felix F.: *See*—
Molins, Desmond W., Ruau, Jackson, and Bruce.

Rubbra, Arthur A., Littleover, Derby, assignor to Rolls-Royce Limited, Derby, England. Engine starter mechanism having a turbine as the prime mover. 2,614,798, Oct. 21.

Rubin, Louis C., West Caldwell, E. W. Riblett, Tenafly, and H. G. McGrath, Elizabeth, assignors to The M. W. Kellogg Company, Jersey City, N. J. Synthesis of organic compounds. 2,615,035, Oct. 21.

Ruderfer, Martin, Brooklyn, N. Y. Electronic tube. 2,615,128, Oct. 21.

Ruehlen, Forrest N., Bartlesville, Okla., assignor to Phillips Petroleum Company. Solvent extraction of hydrocarbons with fluorinated aliphatic carboxylic acids. 2,614,965, Oct. 21.

Rumsey, Victor H., Montreal, Quebec, Canada, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Directive broad band slot antenna system. 2,615,132, Oct. 21.

Russell, Andrew C., Shawnee, Okla. Carburetor with automatic air feed control. 2,614,581, Oct. 21.

Russell, Frederick J.: *See*—
Yutzy, Henry C., and Russell.

Russell, John D., Los Angeles, Calif. Oscillogram reader. 2,614,327, Oct. 21.

Rust, Harley, Mount Morrison, Colo. Adjustable scraper blade mounting. 2,614,344, Oct. 21.

Rydbeck, Gösa, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Lightning arrester arc gap. 2,615,145, Oct. 21.

Sachs, Carrol C., Sunland, assignor to Alexander H. Kerr & Co., Inc., Los Angeles, Calif. Structural panel forming machine. 2,614,949, Oct. 21.

St. Clair, Theodore A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pressure sealed relief valve. 2,614,582, Oct. 21.

St. John, Willard M., Jr., and C. A. Uraneck, Borger, Tex., assignors to Phillips Petroleum Company. Emulsion polymerization at low temperatures. 2,615,009, Oct. 21.

Samdahl, Russell H., Black River Falls, Wis. Automotive trailer hitch. 2,614,860, Oct. 21.

Samuels, Sherwood C., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Stabilization of furfural with dimethylforamide. 2,615,028, Oct. 21.

Sandberg, Oscar, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Conveyer and transfer mechanism for wrapping machines. 2,614,679, Oct. 21.

Sarti, Renee, New York, N. Y. Removable shoulder pad for hangers. 2,614,736, Oct. 21.

Sather, Olaf P., Duluth, Minn. Oil filter cartridge. 2,614,694, Oct. 21.

Saxby, Frank R., Eastcote, England, assignor to The National Cash Register Company, Dayton, Ohio. Remote-control recording mechanism. 2,614,489, Oct. 21.

Schafer, Robert E., Lancaster, and M. I. Kreider, Ephrata, assignors to Hamilton Watch Company, Lancaster, Pa. Multiple spring tester. 2,614,414, Oct. 21.

Scheller, Arthur P.: *See*—
Villoresi, John, and Scheller.

Schenck, Gerhard, Berlin-Dahlem, and F. Rattinger, Aschaffenburg, assignors to Knoll A.-G. Chemische Fabriken, Ludwigshafen on the Rhine, Germany. Extracting cardioactive glycosides from Boviea volubilis. 2,615,016, Oct. 21.

Schiller, Arthur M.: *See*—
Suen, Tzeng J., and Schiller.

Schmidinger, Joseph, Lake George, N. Y. Snap action device. 2,615,106, Oct. 21.

Schmidt, Carl H., Jr., Detroit, Mich. Bathtub attachment for care of babies. 2,614,264, Oct. 21.

Schmidt, Erich: *See*—
Hayes, George A., and Schmidt.

Schmidt, William E.: *See*—
Daily, Edward H., and Schmidt.

Schoene, Dwight L.: *See*—
Hoffmann, Otto L., and Schoene.

Schoenfeld, David M.: *See*—
Armacost, Wilbur H., and Schoenfeld.

Schramm, Arthur G., Phoenix, Ariz. Spring suspension for vehicles. 2,614,863, Oct. 21.

Schreiber, Patrick Q. R., assignor to Robert Legg Limited, London, England. Machine for cutting tobacco and the like. 2,614,596, Oct. 21.

Schroeder, Elmer F.: *See*—
Papesch, Viktor, and Schroeder.

Schulz, Edward L., Lakewood, Ohio, and E. A. Bailey, Marietta, assignors to Carrier Corporation, Syracuse, N. Y. Refrigeration. 2,614,393, Oct. 21.

Schwartz, Morris, and W. Castedello, Fairfield County, assignors to The Kalart Company, Inc., Stamford, Conn. Flash lamp socket with ejector. 2,615,071, Oct. 21.

Schwartzmann, Harry, New York, N. Y. Sliding window sash holder. 2,614,875, Oct. 21.

Schwarz, Alfred, New York, N. Y., assignor, by mesne assignments, of sixty per cent to Sinclair Research Laboratories, Inc., Harvey, Ill. Internal-combustion engine. 2,614,546, Oct. 21.

Scofield, Donald W., Detroit, Mich., assignor to Philco Corporation, Philadelphia, Pa. Toasting or broiling rack. 2,614,483, Oct. 21.

Scott Aviation Corporation, assignee: *See*—
Koester, Norman C., and Cupp.

Scott, Lyle B.: *See*—
Mathews, Harry A., Riordan, and Scott.

Searle, G. D., and Co., assignee: *See*—
Huffman, Max N.

Searle, G. D., & Co., assignee: *See*—
Papesch, Viktor, and Schroeder.

Searles, Albert H., assignor to Grace Corset Company, Kalamazoo, Mich. Body supporting garment. 2,614,256, Oct. 21.

Sears, Roebuck and Co., assignee: *See*—
Kidd, Wesley E., and Metzenberg.

Secoy, Leslie W., assignee: *See*—
Dean, Charles O.

Seeburg, J. P., Corporation, assignee: *See*—
Johnson, Carl G.

Selas Corporation of America, assignee: *See*—
Fuller, Robert A.

Sengebusch, Hans: *See*—
Graybill, Kenneth W., and Sengebusch.

Senna, Edward, Spokane, Wash., assignor to Senna Service Inc. Pipe-bending machine. 2,614,605, Oct. 21.

Senna Service Inc., assignee: *See*—
Senna, Edward.

Shaff, Ernest H., Spring Lake, assignor, by mesne assignments, to Keller Tool Company, Grand Haven, Mich. Torque wrench. 2,614,418, Oct. 21.

Shaff, Ernest H., Spring Lake, assignor, by mesne assignments, to Keller Tool Company, Grand Haven, Mich. Combination nut running and setting tool. 2,614,419, Oct. 21.

Shakespeare Company, assignee: *See*—
Shakespeare, William, Jr.

Shakespeare, William, Jr., assignor to Shakespeare Company, Kalamazoo, Mich. Fishing reel. 2,614,768, Oct. 21.

Shand, Gadsden E., Jr., Columbia, S. C. Conveyer system for spoolers and the like. 2,614,682, Oct. 21.

Shands, William E., San Diego, Calif. Can piercing device. 2,614,319, Oct. 21.

Sharlitt, Herbert V.: *See*—
Kneifel, Laurence S., and Sharlitt.

Shaw, John E. B., Chicago, Ill. Blood transfusion filter unit. 2,614,562, Oct. 21.

Shawbrook, Henry, and E. F. Hillier, assignors to Dowty Equipment Limited, Cheltenham, England. Self-centering means for aircraft casterable landing wheel mountings. 2,614,777, Oct. 21.

Sheffield Corporation, The, assignee: *See*—
Polk, Louis F., and Aller.

Shell Development Company, assignee: *See*—
Cook, David L.

Gregory, James N.
Harman, Denham, and Thorpe.
Reitsma, Hendrik.

Shelton, Thomas M., Glendale, Calif. Toy gun. 2,614,551, Oct. 21.

Shennan, Alexander G., Oak Park, assignor to International Tag & Salesbook Company, Chicago, Ill. Manifold set. 2,614,865, Oct. 21.

Shepherd, Allan D.: *See*—
Graham, Robert P., Thompson, and Shepherd.

Shepherd, Benjamin F., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Rock drilling tool. 2,614,812, Oct. 21.

Shepherd, Benjamin F., Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Rock drilling tool. 2,614,813, Oct. 21.

Shepherd, Donald J.: *See*—
Burkard, Victor, and Shepherd.

Sherron, Percival H., Jamaica, N. Y. Telephone booth. 2,614,664, Oct. 21.

Sherwin, Chester F., Watervliet, N. Y. Micrometer. 2,614,331, Oct. 21.

Shields, Garry H., Portland, Oreg. Telescopic lawn sprinkler. 2,614,887, Oct. 21.

Shook, Charles H., Dayton, Ohio. Form for molding concrete footings and walls. 2,614,311, Oct. 21.

Show Off Corporation, The, assignee: *See*—
Elsinger, Louis S.

Simms, Russell K., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heater and converting hydrocarbons. 2,614,968, Oct. 21.

Sinclair Research Laboratories, Inc., assignee: *See*—
Schwarz, Alfred.

Sinclair & Valentine Company, assignee: *See*—
Rice, Cyril M.

Sinkwitz, Joseph C., and R. Szpur, assignors to W. F. Chapel, Dayton, Ohio. Apparatus for cooking articles of food in deep grease. 2,614,485, Oct. 21.

Sivon, Charles A., Painesville, Ohio. Wire antiskid device. 2,614,599, Oct. 21.

Sklaffiliates, Inc., assignee: *See*—
Harocopo, Marino N.

Skinner Chuck Company, The, assignee: *See*—
Goepfrich, George A.

Slayter, Games, Newark, Ohio. Seed cleaner and separator. 2,614,691, Oct. 21.

Slyk, Stanley S., assignor of one-half to F. J. and E. Spencer, Chicago, Ill. Shaker-dispenser. 2,614,734, Oct. 21.

Smallpeice, Cosby D. P., Swanwick Shore, near Southampton, England. Manually adjustable pressure regulator. 2,614,538, Oct. 21.

Smith, Arthur P., assignee: *See*—
Monkres, Omey M.

Smith, Carl F.: *See*—
Nadeau, Gale F., Starck, and Smith.

Smith, James D.: *See*—
Markert, John E., Russell, and Smith.

Smith, John W., assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich. Transfer conveyer system for article wrapping machines. 2,614,683, Oct. 21.

Smith, Lawrence M.: *See*—
Booth, George P., and Smith.

Smith, Lloyd P., Ithaca, N. Y., assignor to Radio Corporation of America. Frequency modulation of electron discharge devices. 2,615,156, Oct. 21.

Smith, Orson P., assignor, by mesne assignments, to Smithway Machine Co., Inc., Seattle, Wash. Stretcher. 2,614,266, Oct. 21.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Spring-actuated shaft seal. 2,614,869, Oct. 21.

Smithway Machine Co., Inc., assignee: *See*—
Smith, Orson P.

Smulski, Theodore J., Gary, Ind., assignor to The Anderson Company. Electrical indicating system. 2,615,085, Oct. 21.

Snell, Wortham A., Detroit, Mich. Hinge. 2,614,285, Oct. 21.

Snow, Daniel, assignee: *See*—
Caruso, Philip A.

Snyder, William T., South Lancaster, Mass. Coating machine for coating flexible sheets. 2,614,522, Oct. 21.

Societe Anonyme des Manufactures des Glases et Produits Chimiques de Saint-Gobain, Chauny & Cirey, assignee: *See*—
Kepes, André.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Penick, Joe, and Bergstrom.
Stover, William A.

Soderman, George W., West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Article holding apparatus. 2,614,516, Oct. 21.

Somerville, Albert A., Carmel, assignor to R. T. Vanderbilt Company, Inc., New York, N. Y. Sodium dimethyl dithlocarbamate and sodium salt of 2-mercaptobenzothiazole synergistic fungicidal composition. 2,614,957, Oct. 21.

Somerville, Albert A., Carmel, assignor to R. T. Vanderbilt Co., Incorporated, New York, N. Y. Zinc mercaptobenzothiazole and ferric dimethyl dithiocarbamate fungicidal composition. 2,614,958, Oct. 21.

Somerville, Albert A., Carmel, assignor to R. T. Vanderbilt Co., Incorporated, New York, N. Y. Ferric salt of mercaptobenzothiazole and zinc dimethyl dithiocarbamate fungicidal composition. 2,614,959, Oct. 21.

Somerville, Albert A., Carmel, assignor to R. T. Vanderbilt Co., Incorporated, New York, N. Y. Ferric dimethyl dithiocarbamate and bismuth salt of 5-chloro-2-mercaptobenzothiazole fungicidal composition. 2,614,960, Oct. 21.

Sorenson, Warner H., Port Arthur, Tex. Device for forming knots in necktles. 2,614,259, Oct. 21.

Sparks Machine Tool Corporation, assignee: *See*—
Lomazzo, Edmund J.

Spear, Wesley J., Cleveland Heights, Ohio. Pivotal disk clamp. 2,614,783, Oct. 21.

Spencer, Edward, assignee: *See*—
Slyk, Stanley S.

Spencer, Frederick J., assignee: *See*—
Slyk, Stanley S.

Sperry Corporation, The, assignee: *See*—
Poitras, Edward J., and Tear.

Spialter, Leonard, Newark, N. J., and C. A. MacKenzie, New Orleans, La., assignors of one-half to Montclair Research Corporation and one-half to Ellis-Foster Company. In the method of making finely divided silica, the production of a combustible mixture comprising chloro silicon hydrides. 2,614,906, Oct. 21.

Stamper, Hamilton A., B. G. Blackman, and D. O. Nelson, Los Angeles, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Scanning recorder. 2,614,903, Oct. 21.

Standard Oil Company, assignee: *See*—
Houser, Harold S.
Wolff, William F., and Johnson.

Standard Oil Development Company, assignee: *See*—
Beerbower, Alan, and Morway.
Carlisle, Charles H.
Eby, Lawrence T.
Harney, William S., Jr.
Hildebrandt, Alexander B.
Jasper, Gabriel E., and Welch.
Lytle, Melba L.
Morrell, Charles E., Stewart, and Carlson.
Morrell, Charles E., and Welch.
Nicholson, Edward W. S., Fritz, and Etherington.
Vanderbilt, Byron M.
Vanderbilt, Byron M., and Gleason.
Wasson, Jones I.
Williams, Philip S., and Welge.

Standard Pressed Steel Co., assignee: *See*—
Hallowell, Howard T., Jr., and Bennett.

Stanton, Leonard, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Amplifier for stabilizing small unidirectional signals. 2,615,064, Oct. 21.

Starck, Clemens B.: *See*—
Nadeau, Gale F., Starck, and Smith.

Starr, John H., Mayville, assignor to John Deere Van Brunt Company, Horicon, Wis. Regulating stroke of fluid-pressure apparatus. 2,614,537, Oct. 21.

Staunt, Martin, Des Plaines, Ill. Gum massager. 2,614,556, Oct. 21.

Stearns Manufacturing Company, assignee: *See*—
Davis, Robert O.

Steel, Frederick H., Chillicothe, Ohio. Automatic float-actuated watering device for farm animals. 2,614,532, Oct. 21.

Steel Heddle Manufacturing Company, assignee: *See*—
Kaufmann, John J.

Steen, Carl A., Getinge, Sweden. Boiling pan. 2,614,730, Oct. 21.

Steffen, Carl, Vienna, Austria. Rendering visible the stereometrical (spatial) structure of objects, and in particular for preparations for histological investigations. 2,614,454, Oct. 21.

Sterling Drug Inc., assignee: *See*—
Clinton, Raymond O., and Laskowski.

Stewart, Joseph : *See*—
Morrell, Charles E., Stewart, and Carlson.

Stewart, Wayne R., Hutchinson, Kans. Auxiliary semi-pneumatic tire for flat rimmed wheels. 2,614,002, Oct. 21.

Stickney, Wilder C., Penn Township, Allegheny County, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Buoyancy type liquid metering device. 2,614,578, Oct. 21.

Stillwell, Glenn E., Riverside, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Side and bottom slat feed for automatic boxmaking machines. 2,614,252, Oct. 21.

Stinnett, Charlie F., Huntsville, Ala. Awning. 2,614,300, Oct. 21.

Stoddard, Charles R., Jr., Richmond, Ind. Portable bait container. 2,614,357, Oct. 21.

Stodola, Edwin K., Neptune, N. J., assignor to the United States of America as represented by the Secretary of War. Radio object locating system. 2,615,158, Oct. 21.

Stoneman, Alan C., San Marino, assignor to Purex Corporation, Ltd., South Gate, Calif. Hypochlorite bleach container. 2,614,690, Oct. 21.

Storm, Lynn W., Houston, Tex. One-way seal. 2,614,793, Oct. 21.

Stover, William A., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Preparation of chromic salts. 2,615,031, Oct. 21.

Street, Louis F., Philadelphia County, assignor to Welding Engineers, Inc., Norristown, Pa. Pellet-cutting mechanism. 2,614,290, Oct. 21.

Strinden, Keith I., Litchville, N. Dak. Automotive air vent filter attachment. 2,614,654, Oct. 21.

Stuber, Walter J., and J. J. Di Ienno, assignors to Carey-McFall Company, Philadelphia, Pa. Venetian blind. 2,614,624, Oct. 21.

Suen, Tzeng J., and A. M. Schiller, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Composition comprising a thermosetting resin and a dihydroxy alkane containing 6–10 carbon atoms. 2,615,003, Oct. 21.

Sultzer, Norman W., Scotch Plains, N. J., assignor to Research Corporation, New York, N. Y. Electrical precipitator. 2,614,652, Oct. 21.

Sunila Osakeyhtio, assignee : *See*—
Tarkkonen, Oma.

Sunkist Growers, Inc., assignee : *See*—
Wilson, Clarence W.

Suter, Heinrich, assignor to H. W. Egli A. G., Zurich, Switzerland. Zeroizing mechanism in calculating machines. 2,614,753, Oct. 21.

Swan, Vernie A. M., Hartington, Nebr. Posthole digger. 2,614,805, Oct. 21.

Swart, Richard H., assignor to Carrier Corporation, Syracuse, N. Y. Oil return mechanism for refrigeration systems. 2,614,402, Oct. 21.

Swietoslawski, Wojciech, assignor to Koppers Company, Inc., Pittsburgh, Pa. Purifying naphthalene by crystallization. 2,615,058, Oct. 21.

Szpur, Roman : *See*—
Sinkwitz, Joseph C., and Szpur.

Tanczyn, Harry, Baltimore, Md., assignor to Armco Steel Corporation. Stainless steel and method. 2,614,921, Oct. 21.

Tarkkonen, Oma, assignor of one-half to S. Osakeyhtio, Sunila, Finland. Digester filling in sulfate pulping. 2,614,923, Oct. 21.

Tatman, Kenneth L., assignor to Resurrection Mining Company, Leadville, Colo. Flotation apparatus. 2,614,821, Oct. 21.

Taylor, Cornol W., Holdenville, Okla. Automatic float transfer valve. 2,614,576, Oct. 21.

Taylor Instrument Companies, assignee : *See*—
Di Maggio, Samuel S., Jr.

Taylor, Merville A., North Hollywood, Calif. Folding bird cage for entertainers. 2,614,838, Oct. 21.

Taylor, Taylor & Hobson Limited, assignee : *See*—
Warmisham, Arthur.

Tear, James D. : *See*—
Poitras, Edward J., and Tear.

Terminal Packaging Company, assignee : *See*—
Caron, Louis D., Jr., and Hoenecke.

Texas Company, The, assignee : *See*—
Keating, Patrick J., Jr.

Tey Manufacturing Corporation, assignee : *See*—
Pierce, Wayne M., Jr.

Thomas, Arthur, Wallington, assignor to Powers-Samas Accounting Machines Limited, London, England. Apparatus for comparing statistical record cards. 2,614,750, Oct. 21.

Thomas, Edward B., Spondon, near Derby, and H. F. Oxley, Charmouth, England, assignors to Celanese Corporation of America. Textile dressing materials. 2,614,984, Oct. 21.

Thompson, John H. : *See*—
Graham, Robert P., Thompson, and Shepherd.

Thompson Products, Inc., assignee : *See*—
Alldredge, Marshall H., and Graham.
Booth, James H.
Watson, Edwin D.

Thoresen, John C., Warwick, assignor to Builders Iron Foundry, Providence, R. I. Pneumatic apparatus for measuring fluid pressure. 2,614,424, Oct. 21.

Thornquist, Carl, assignee : *See*—
Herman, James H., Jr.

Thornwald, Everett D., assignor to Clements Mfg. Co., Chicago, Ill. Automatic nozzle adjustment for vacuum cleaners and the like. 2,614,283, Oct. 21.

Thorpe, Roy E. : *See*—
Harman, Denham, and Thorpe.

Tillapaugh, Harley, assignor to Gibson Refrigerator Company, Greenville, Mich. Electric cooking element and range top. 2,615,117, Oct. 21.

Tinker, Leo H., San Gabriel, Calif. Electrical probe. 2,615,077, Oct. 21.

Tobin-Arp Manufacturing Company, assignee : *See*—
Arp, Ewald A.

Toledo Scale Company, assignee : *See*—
Hart, Norman E.

Tomkins, Harold, Walsall, England, assignor to Reliance Pet Supply Inc., New York, N. Y. Spring link coupling for dog leads, baby harness or the like. 2,614,834, Oct. 21.

Toomin, Hershel, Douglaston, N. Y. Derivative control of servo systems. 2,615,149, Oct. 21.

Toublanc, Eugéne, Nantes, France. Machine for roughening leather and plastic materials. 2,614,411, Oct. 21.

Trailmobile Inc., assignee : *See*—
Beyer, Frank A., Bradley and Crank.

Transparent Specialties Corp., assignee : *See*—
Kneifel, Laurence S., and Sharlitt.

Trefil, James, Berwyn, assignor to Crane Co., Chicago, Ill. Valve guide means. 2,614,792, Oct. 21.

Triumph Dishwashers Limited, assignee : *See*—
Dewdney, Albert J.

Trotman, Charity A., Jackson Height, N. Y. Tea packaging system. 2,614,934, Oct. 21.

Troyan, James E., Lewiston, N. Y., assignor to Phillips Petroleum Company. Recovery of rubberlike polymer from a latex. 2,615,010, Oct. 21.

Tucker, Warren R., assignor to H-P-M Development Corporation, Mount Gilead, Ohio. Fluid-operable control mechanism for variable delivery fluid pumps. 2,614,500, Oct. 21.

Turpin, Alexander J., Stewart Manor, assignor to Hauck Manufacturing Company, Brooklyn, N. Y. Tank and spray unit for cleansing. 2,614,571, Oct. 21.

Tuttle & Kift, Inc., assignee : *See*—
Kelly, William D.

Tuve, Richard L., Silver Spring, Md., and H. B. Peterson, Washington, D. C. Mechanical foam fluid formulation for alcohol fires. 2,614,978, Oct. 21.

Uhlig, Henry C., Clifton, assignor to Howe Twister Corporation, Jersey City, N. J. Twisting spindle balloon compensating device. 2,614,381, Oct. 21.

Ulrich Foundation, Inc., assignee : *See*—
Ulrich, Raymond M.

Ulrich, Raymond M., Roanoke, Ill., assignor to Ulrich Foundation, Inc. Hydraulic coupler valve construction. 2,614,866, Oct. 21.

Union Asbestos & Rubber Company, assignee : *See*—
O'Connor, Arthur F.

Union Carbide and Carbon Corporation, assignee : *See*—
Allen, Ivey, Jr., Marshall and Wightman.
Cook, Gerhard A.
Jacobsson, Wilgot J., Hoffman, and Oldham.
Villoresi, John, and Scheller.

United Aircraft Corporation, assignee : *See*—
Buivid, Michel D.
Donovan, Raymond F.

United Royalties Corporation, assignee : *See*—
Bordwell, Lavern.

United Shoe Machinery Corporation, assignee : *See*—
Gudger, Jesse.
Jorgensen, Bernhardt.
Rivington, Arthur A.

United States Atomic Energy Commission, United States of America as represented by the, assignee : *See*—
Brown, Clarence J.
Glenn, William E., Jr.
McMillan, Edwin M.
Wilhelm, Harley A.

United States Rubber Company, assignee : *See*—
Hoffmann, Otto L., and Schoene.
Warren, John C. R., and Hager.
Zukel, John W., and Harris.

U. S. Slicing Machine Company, Inc., assignee : *See*—
Van Duyn, Adrianus, and van Hoorn.

United States Steel Company, assignee : *See*—
Gommel, Ernest W.
Hammer, Rolf O.
Miller, Charles E.

Universal Oil Products Company, assignee : *See*—
Grote, Henry W.
Linn, Carl B.

Universal Winding Co., assignee : *See*—
Bell, Charles C.
Goodhue, William V.

Upjohn Company, The, assignee : *See*—
Marlatt, Paul E., Hanze, McIntosh, and Levin.
Weisblat, David I., and Magerlein.

Uraneck, Carl A. : *See*—
St. John, Willard M., Jr., and Uraneck.

Urshan, Samuel A., San Diego, Calif. Pie and cake division indicator. 2,614,328, Oct. 21.

Väisälä, Vilho, Helsinki, Finland. Making balloons. 2,614,293, Oct. 21.

Van Brunt, John Deere, Company, assignee : *See*—
Hyland, William A., and Borngraeber.
Starr, John H.

Vanderbilt, Byron M., Westfield, N. J., assignor to Standard Oil Development Company. Sodium refining of petroleum oils. 2,614,966, Oct. 21.

Vanderbilt, Byron M., and A. H. Gleason, Westfield, N. J., assignors to Standard Oil Development Company. Petroleum oil refining process. 2,614,967, Oct. 21.

Vanderbilt, R. T., Co., Incorporated, assignee : *See*—
Somerville, Albert A.

Vanderbilt, R. T., Company, Inc., assignee : *See*—
Somerville, Albert A.

Van der Pelen, Céline, and L. Freudenberg, Brussels, Belgium. Window construction. 2,614,296, Oct. 21.

Van Duyn, Adrianus, Hillegersberg, Rotterdam, and J. van Hoorn, Voorburg, Netherlands, assignors to U. S. Slicing Machine Company, Inc., La Porte, Ind. Slicing machine with knife-grinding means. 2,614,373, Oct. 21.

Van Hoorn, Jetze : *See*—
Van Duyn, Adrianus, and van Hoorn.

Van Horn, Perry E., Grand Rapids, Mich. Trailer hitch. 2,614,861, Oct. 21.

Vaughan, Paul S., Schenectady, assignor to American Locomotive Company, New York, N. Y. Cylinder head. 2,614,549, Oct. 21.

Verderosa, Louis, Ozone Park, N. Y. Safety disk wheel. 2,614,890, Oct. 21.

Versen, Kurt, Tenafly, N. J. Mounting for recessed lighting fixtures. 2,614,785, Oct. 21.

Vicario, Carlo : *See*—
Clark, Carleton L., and Vicario.

Victor Industries Corporation, assignee : *See*—
Jung, Albert H.

Villoresi, John, Lincoln Park, and A. P. Scheller, Union, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Gas mixing method and blowpipe apparatus. 2,614,616, Oct. 21.

Visos, Charles D. : *See*—
Huck, Alfred J., and Visos.

Voit, Willy, Stuttgart-Bad Cannstatt, and U. Aldinger, Stuttgart-N, assignors to Robert Bosch G. m. b. H., Stuttgart, Germany. Single piston injection pump with fuel distributor for multicylinder combustion engines. 2,614,494, Oct. 21.

Von Bramer, Harold, and M. L. Clemens, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Preparing gallic esters. 2,615,042, Oct. 21.

Wade, Elmer J., Schenectady, N. Y., assignor to General Electric Company. Automatic steering system. 2,615,154, Oct. 21.

Waderlow, B. A., and Co., assignee : *See*—
Waderlow, Benerson A., and Horton.

Waderlow, Benerson A., Lathrup Township, Oakland County, and W. S. Horton, Farmington Township, Oakland County, assignors to B. A. Waderlow and Co., Detroit, Mich. Fluid magnetic clutch. 2,614,668, Oct. 21.

Wagstaff, James B., Ridgewood, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Composite pipe. 2,614,585, Oct. 21.

Wahlberg, Nils E., Chicago, Ill., assignor to Nash-Kelvinator Corporation, Kenosha, Wis. Steering mechanism. 2,614,436, Oct. 21.

Walker, Jay P., and C. O. Glasgow, assignors to National Tank Company, Tulsa, Okla. Method of and apparatus for treating oil well streams. 2,614,649, Oct. 21.

Wallace, James, Manchester, England, assignor to The National Cash Register Company, Dayton, Ohio. Totalizer actuator control mechanism. 2,614,749, Oct. 21.

Wannamaker, William H., Jr., Flourtown, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Oscillator controlled measuring and controlling apparatus. 2,615,151, Oct. 21.

War, United States of America as represented by the Secretary of, assignee : *See*—
Katz, Sidney H.
Kharasch, Morris S., and Weinhouse.
Stodola, Edwin K.

Warmisham, Arthur, assignor to Taylor, Taylor & Hobson Limited, Leicester, England. Four component optical objective. 2,614,461, Oct. 21.

Warren, John C. R., and F. M. M. J Hager, Elmira, Ontario, Canada, assignors to United States Rubber Company, New York, N. Y. Making herbicidal composition of matter. 2,614,919, Oct. 21.

Wasson, Jones I., Union, N. J., assignor to Standard Oil Development Company. Steam engine lubricants. 2,614,991, Oct. 21.

Watson, Edwin D., South Gate, Calif., assignor to Thompson Products, Inc., Cleveland, Ohio. Compressor valve. 2,614,854, Oct. 21.

Watter, Michael, assignor to The Budd Company, Philadelphia, Pa. Space-heating means. 2,615,115, Oct. 21.

Weaver, Albert J., San Antonio, Tex. Delayed electric mercury switch. 2,615,100, Oct. 21.

Webb, George A. : *See*—
Corson, Ben B., and Webb.

Weber, Albert F., Linden, N. J. Traffic sign projection device. 2,614,457, Oct. 21.

Weber, Louis J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heat exchanger. 2,614,824, Oct. 21.

Webster-Chicago Corporation, assignee : *See*—
Dale, Colin B.

Wee, Quan, San Antonio, Tex. Whirling game device with multiple cylinder. 2,614,843, Oct. 21.

Weimann, Henry : *See*—
Peremi, Edmund, and Weinmann.

Weinhouse, Sidney : *See*—
Kharasch, Morris S., and Weinhouse.

Weisblat, David I., and B. J. Magerlein, assignors to The Upjohn Company, Kalamazoo, Mich. Synthesis of folic acid intermediates. 2,615,040, Oct. 21.

Weisner, John W., Highland Springs, Va. Cup rack. 2,614,699, Oct. 21.

Welch, John F., Douglaston, N. Y. Indicator for telephone switchboards. 2,615,096, Oct. 21.

Welch, Lester M. : *See*—
Jasper, Gabriel E., and Welch.
Morrell, Charles E., and Welch.

Welden, William A., Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Closure means for pressure cookers. 2,614,723, Oct. 21.

Welden, William A., Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Pressure cooker and the like. 2,614,725, Oct. 21.

Welden, William A., Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Pressure cooker. 2,614,726, Oct. 21.

Welden, William A., Stamford, Conn., and G. C. Wyman, assignors to Revere Copper and Brass Incorporated, Rome, N. Y. Pressure cooker with protective shield. 2,614,720, Oct. 21.

Welding Engineers, Inc., assignee : *See*—
Street, Louis F.

Welge, Henry J. : *See*—
Williams, Philip S., and Welge.

Welsh, Dolan H., and E. A. Means, Wichita, Kans. ; said Means assignor to said Welsh. Gauge for indicating pressure increase caused by heat in tires. 2,614,429, Oct. 21.

Welsh Manufacturing Company, assignee : *See*—
Lindblom, Frank W.

Welte, Benedict, Lake Orion, and O. J. Abbott, Jr., Detroit, Mich., assignors to Colonial Broach Company. Steady rest. 2,614,371, Oct. 21.

West Bend Aluminum Co., assignee : *See*—
Kircher, Ralph N., and Burkett.

West, Ernest : *See*—
West, Frederick J. and E.

West, Frederick J. and E., assignors to West's Gas Improvement Company Limited, Manchester, England. Discharge device for vertical retorts. 2,614,974, Oct. 21.

Western Electric Company, Incorporated, assignee : *See*—
Barkstrom, Elmer E.
Bilterman, Henry L.
Mamola, Peter J.
Soderman, George W.

Westinghouse Electric Corporation, assignee : *See*—
Darlington, Thomas B.
Lee, Paul R.
Miller, Ernest F.

West's Gas Improvement Company Limited, assignee : *See*—
West, Frederick J. and E.

Weyrauch, William F., Elmwood Park, Ill. Phone call recorder. 2,615,093, Oct. 21.

Whalley, George E. : *See*—
Fallert, Clifford D., and Whalley.

Wheeler, Edward M., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Hood forming machine. 2,614,515, Oct. 21.

Wheeler, Florence H., assignee : *See*—
Wheeler, Sidney W.

Wheeler, Sidney W., assignor of one-half to F. H. Wheeler, South Berlin, Mass. Wheel carried applying and removing antiskid device. 2,614,600, Oct. 21.

White, Henry A., Brockton, Mass. Television antenna. 2,615,005, Oct. 21.

White, Henry L., North Providence, R. I. Top cylinder lubricator. 2,614,550, Oct. 21.

White, Kenneth D., Gardena, Calif. Attachment for planes. 2,614,591, Oct. 21.

White, Owen, Jr., Sibley, Iowa. Power-driven lubricating apparatus. 2,614,731, Oct. 21.

Whiting Corporation, assignee : *See*—
Holmes, Louis D., Haaksma, and Hammond.

Whitmore, Harland W., Kenosha, Wis., assignor to Motor Products Corporation, Detroit, Mich. Lid assembly. 2,614,719, Oct. 14.

Whitney, David M., Toledo, Ohio. Hydraulic brake master cylinder reservoir float switch. 2,615,105, Oct. 21.

Whitney, W. F., Company, Inc., assignee : *See*—
Johnson, Howard E.

Whitson, Clare H., assignee : *See*—
Whitson, John W.

Whitson, John W., assignor of one-half to C. H. Whitson, New York, N. Y. Sorting apparatus. 2,614,697, Oct. 21.

Wiene, Poul E., Copenhagen, Denmark. Fuel injection system for reversible internal-combustion engines. 2,614,495, Oct. 21.

Wiggins, John H., Chicago, Ill. Floating tank roof. 2,614,717, Oct. 21.

Wiggins, Walter, Jr., Washington, D. C. Submarine drilling and pumping apparatus. 2,614,803, Oct. 21.

Wightman, Gordon E.: *See*—
Allen, Ivey, Jr., Marshall, and Wightman.

Wilcox-Gay Corporation, assignee: *See*—
Cain, Robert M.

Wilfley, A. R., and Sons, Inc., assignee: *See*—
Wilfley, Elmer R., and Aldred.

Wilfley, Elmer R., and J. L. Aldred, Jr., assignors to A. R. Wilfley and Sons, Inc., Denver, Colo. Centrifugal pump. 2,614,502, Oct. 21.

Wilhelm, Harley A., Ames, Iowa, assignor to the United States of America as represented by the United States Atomic Energy Commission. Apparatus for chemical reaction detection. 2,614,645, Oct. 21.

Williams, Carl A., Los Angeles, Calif. Closure operator. 2,614,836, Oct. 21.

Williams, Clarence B., Grass Valley, Calif. Garment hanger. 2,614,735, Oct. 21.

Williams, Philip S., and H. J. Welge, Tulsa, Okla., assignors to Standard Oil Development Company. Preventing water encroachment in oil wells. 2,614,635, Oct. 21.

Williams, Robert F.: *See*—
Hiatt, Gordon D., and Williams.

Williams, Robert F., assignor to Eastman Kodak Company, Rochester, N. Y. Thermoplastic compositions of improved impact strength and their production. 2,614,292, Oct. 21.

Williams, William T.: *See*—
Galbraith, William G., Williams, and Abraham.

Willits, George W., Hinsdale, Ill., assignor to Johnson & Johnson. Cheese bandage. 2,614,936, Oct. 21.

Wilson, Clarence W., Ontario, assignor to Sunkist Growers, Inc., Los Angeles, Calif. Preparing water soluble alkoxyl substituted chalcone glycosides. 2,615,015, Oct. 21.

Wilson, Samuel A., assignor to Maloney-Crawford Tank & Manufacturing Company, Tulsa, Okla. Horizontal oil and gas separator. 2,614,648, Oct. 21.

Wilson Stove and Manufacturing Company, Inc., assignee: *See*—
Cox, Ernest L., and Guice.

Winslow, La Verne J., Pasadena, Calif. Picture frame. 2,614,354, Oct. 21.

Winslow, Raymond M., assignor to Winston and Newell Company, Minneapolis, Minn. Combination loading device and hoist for banana bunches. 2,614,704, Oct. 21.

Winston and Newell Company, assignee: *See*—
Winslow, Raymond M.

Wintermute, Harry A., Plainfield, N. J., assignor to Research Corporation, New York, N. Y. Method and apparatus for recovering gas suspended liquid-soluble material. 2,614,651, Oct. 21.

Wisney, Joseph J., Adrian, Mich. Instrument for determining relative levels. 2,614,572, Oct. 21.

Withall, William E., Hinsdale, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for trucks of railway cars. 2,614,831, Oct. 21.

Wizon, Irvin: *See*—
Cresswell, Arthur, and Wizon.

Wogomon, Donald G., Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio. Convertible chaise longue. 2,614,612, Oct. 21.

Wolff, William F., Park Forest, Ill., and C. E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill. Extraction of aromatic hydrocarbons with esters of thiolsulfonic acid. 2,615,037, Oct. 21.

Wolford, Fred H.: *See*—
Critoph, David I., Herrmann, and Wolford.

Wood, William, Hoole, Chester, and C. E. Bowen, Shotton, Chester, assignors of one-third to The International Electrolytic Plant Company Limited, Sandycroft, Chester, England. Mercury cathode electrolytic cell. 2,614,977, Oct. 21.

Woodward, Charles M., Pasadena, Calif. Clamp. 2,614,788, Oct. 21.

Woodward, Robert N.: *See*—
Broughton, Geoffrey, and Woodward.

Wyllie, Malcolm R. J.: *See*—
Patnode, Homer W., and Wyllie.

Wyman, Glenn C.: *See*—
Welden, William A., and Wyman.

Wyman, Glenn C., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Cover locking means for pressure cookers. 2,614,721, Oct. 21.

Wyman, Glenn C., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Pressure cooker with automatic vent. 2,614,722, Oct. 21.

Wyman, Glenn C., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Pressure cooker with selectively adjustable vent valve. 2,614,724, Oct. 21.

Yacoby, Paul E., Seal Beach, Calif. Garden tractor with interchangeable power tool. 2,614,473, Oct. 21.

Yale & Towne Manufacturing Company, The, assignee: *See*—
Quayle, George F.

Yancofski, Genevieve A., assignor to A. H. Hubert, College Point, N. Y. Waterproof drain pad for children's cribs. 2,614,273, Oct. 21.

Yeardley, Robert L., New Lexington, Ohio. Clip. 2,614,305, Oct. 21.

Young, L. A., Spring and Wire Corporation, assignee: *See*—
Asaro, Vito.
Lenart, Anthony, and Hellman.

Yutzy, Henry C., and G. F. Frame, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing photographic emulsions. 2,614,928, Oct. 21.

Yutzy, Henry C., and F. J. Russell, assignors to Eastman Kodak Company, Rochester, N. Y. Preparing photographic emulsions. 2,614,929, Oct. 21.

Zaber, Adolph J., and J. D. W. Gray, assignors to Graymills Corporation, Evanston, Ill. Metal stock oiler. 2,614,526, Oct. 21.

Zadrozny, Lucian J., New Britain, Conn. Crutch gauge. 2,614,332, Oct. 21.

Zavala, José R., San Pedro, Calif. Dancing doll. 2,614,362, Oct. 21.

Zenith Radio Corporation, assignee: *See*—
Adler, Robert.

Zeuthen, Karl G., Gentofte, near Copenhagen, Denmark. Apparatus for advancing film stepwise. 2,614,456, Oct. 21.

Ziomke, Herbert C., Racine, Wis. Finger hook. 2,614,878, Oct. 21.

Zito, George V., Jersey City, assignor to Bendix Aviation Corporation, Teterboro, N. J. Circuit protective device. 2,615,107, Oct. 21.

Zublin, John A., Los Angeles, Calif. Diamond drill bit for rotary well drilling. 2,614,809, Oct. 21.

Zuehlke, Carl W.: *See*—
Ballard, Albert E., Zuehlke, and Allen.

Zukel, John W., Hamden, and W. D. Harris, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y. Plant growth regulants. 2,614,917, Oct. 21.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21ST DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Fishing bobber. E. Sokolik. Re. 23,567, Oct. 21.

Staple, Frangible. E. J. J. Henriksen. Re. 23,566, Oct. 21.

LIST OF PLANT INVENTIONS

Rose plant. E. S. Boerner. 1,140, Oct. 21.

Rose plant. G. L. Jordan. 1,139, Oct. 21.

LIST OF DESIGN INVENTIONS

Antenna, Indoor television. H. J. Berney. 167,966, Oct. 21.

Atomizer. S. Heftler-Louiche. 167,981, Oct. 21.

Atomizer. C. W. Sundberg. 168,003, Oct. 21.

Automobile. W. Wiggins, Jr. 168,005, Oct. 21.

Boot, Lady's. B. A. Hausfeld and C. G. Tooker. 167,980, Oct. 21.

Box. E. J. Francis. 167,977, Oct. 21.

Bracelet or the like, Expansible. S. Meyerson. 167,995, Oct. 21.

Camera, Duplex. F. H. Owens. 167,997, Oct. 21.

Can, Dispensing. W. Mack. 167,991, Oct. 21.

Canister wall shelf unit. C. L. Curry. 167,972, Oct. 21.

Carpet. R. Heller. 167,982–4, Oct. 21.

Caster cup or similar article. B. Auer. 167,963, Oct. 21.

Clothespin. J. M. Harlan. 167,979, Oct. 21.

Coffee pot. G. W. Florian. 167,976, Oct. 21.

Comb or similar article. L. R. Kahn. 167,987–8, Oct. 21.

Dispenser or the like, Adhesive tape. T. H. Krueger. 167,989, Oct. 21.

Fishing rod carrier for automobiles. F. R. Burnett, I. E. Schmidke, and G. Pelletier. 167,967, Oct. 21.

Game board. W. W. Costenbader. 167,971, Oct. 21.

Game board. H. K. Malley. 167,992, Oct. 21.

Hamper, Clothes. A. H. Baum. 167,965, Oct. 21.

Hanger, Tie. A. S. Jonaitis. 167,986, Oct. 21.

Hospital utility stand or similar article. M. B. Raboli. 167,998, Oct. 21.

Lens housing for automobiles. H. T. Bannister. 167,964, Oct. 21.

Lens housing for automobile lamps. V. M. Exner. 167,973, Oct. 21.

Lighter, Cigarette. C. B. Woofter. 168,009, Oct. 21.

Link chain for a bracelet or the like, Expansible. W. Krust. 167,990, Oct. 21.

Mat, Stair tread. H. B. McKay. 167,994, Oct. 21.

Pickup arm for phonograph. H. V. Slade. 168,002, Oct. 21.

Plate. A. Wright. 168,010, Oct. 21.

Rack, Display. P. K. Wood and G. A. Maurer. 168,007, Oct. 21.

Rack for condiment holders or similar article. P. D. McGee. 167,993, Oct. 21.

Rack for supporting a therapeutic compress in a liquid bath. L. Jensen. 167,985, Oct. 21.

Radiator enclosure, Baseboard. H. S. Woodruff. 168,008, Oct. 21.

Register, Manually set portable. E. C. Rosenberg. 168,000, Oct. 21.

Roundabout. F. H. Wyman and F. F. Taylor. 168,011, Oct. 21.

Spoon or other article of flatware. E. J. Conroy. 167,970, Oct. 21.

Stocking, Lady's. A. L. Chilson. 167,969, Oct. 21.

Stool. A. Sachs. 168,001, Oct. 21.

Swing seat and supports therefor, Combined. F. York. 168,012, Oct. 21.

Table and television picture projection unit, Combination. M. Teuber. 168,004, Oct. 21.

Tablecloth. W. Wolf. 168,006, Oct. 21.

Textile fabric or the like, Narrow. S. L. Oppenheimer. 167,996, Oct. 21.

Textile piece, Shaped. H. M. Goldman. 167,978, Oct. 21.

Toy, Trundle. H. G. Fisher, L. W. Sly, and W. P. Doe. 167,975, Oct. 21.

Tray for automobiles, Serving. J. E. Ferguson. 167,974, Oct. 21.

Truck, Industrial. J. G. Rideout. 167,999, Oct. 21.

Vehicle roof. J. E. Candiln, Jr. 167,968, Oct. 21.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 21ST DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasion resistant wire enamels. E. Q. Bullock, Jr., and F. J. Emig. 2,615,001, Oct. 21.
Absorber for anesthetic gas machines. L. G. Fox. 2,614,561, Oct. 21.
Adapter for truck wheel rims. A. C. Howley. 2,614,603, Oct. 21.
Adjustable dampening bearing support. W. S. Pierce, Jr. 2,614,896, Oct. 21.
Adjustable scraper blade mounting. H. Rust. 2,614,344, Oct. 21.
Adjustable self-transporting thread store reel. H. Reitsma. 2,614,313, Oct. 21.
Adjustable stroke hydraulic motor. C. B. Livers. 2,614,536, Oct. 21.
Adsorption of gases with charcoals having different activities. E. W. S. Nicholson, R. J. Fritz, and L. D. Etherington. 2,614,657, Oct. 21.
Advertising display device. J. T. Mullen. 2,614,351, Oct. 21.
Agricultural chemical compositions comprising 1,2-dihydropyridazine-3,6-dione and its salts. O. L. Hoffmann and D. L. Schoene. 2,614,916, Oct. 21.
Agricultural scaffold. W. D. and C. A. Merrill. 2,614,893, Oct. 21.
Air and fuel supply means for liquid fuel burners of the bowl type. L. S. Chadwick, E. W. Cheeseman, and A. R. Moore. 2,614,618, Oct. 21.
Air conditioning means for motor vehicles. J. H. Herman, Jr. 2,614,478, Oct. 21.
Aircraft breathing oxygen regulator. W. J. Jacobsson, J. A. Hoffman, and S. R. Oldham. 2,614,573, Oct. 21.
Aircraft cabin pressurizing and air conditioning apparatus. F. C. I. Marchant and G. M. Lewis. 2,614,815, Oct. 21.
Aircraft seat leg release means. W. A. Engel. 2,614,781, Oct. 21.
Air flow conveyer. F. J. Cherewick. 2,614,892, Oct. 21.
Air perfuming device. S. P. Boydjieff. 2,614,820, Oct. 21.
Air screw with automatic pitch mechanism. F. Landgraf. 2,614,637, Oct. 21.
Alarm system, Burglar. A. Krueger. 2,615,083, Oct. 21.
Alley sweep for textile mills. H. E. Clark. 2,614,281, Oct. 21.
Amalgamator. L. Brunetti. 2,614,693 Oct. 21.
Amalgamator. A. Ferguson. 2,614,756, Oct. 21.
Ambulatory commode vehicle. G. Camisa and G. E. Hecker. 2,614,610, Oct. 21.
Ambulatory reciprocator. C. D. Denison. 2,614,609, Oct. 21.
Amidothiophosphates. L. R. Drake. 2,615,039, Oct. 21.
Amplifier for stabilizing small unidirectional signals. L. Stanton. 2,615,064, Oct. 21.
Anchor for cargo tie-down devices. E. D. Grizzard, F. R. Collar, and J. C. Mitchell. 2,614,871, Oct. 21.
Anchoring means for adjustable backs of metal chairs. H. T. Hallowell, Jr., and F. Bennett. 2,614,614, Oct. 21.
Animal carcass dehairing machine. H. A. Ittel. 2,614,286, Oct. 21.
Antenna. P. S. Carter. 2,615,134, Oct. 21.
Antenna. M. D. Ercolino. 2,615,133, Oct. 21.
Antenna and matching circuit. N. E. Lindenblad. 2,615,131, Oct. 21.
Antenna, Narrow beam receiving. P. A. Kennebeck. 2,615,126, Oct. 21.
Antenna system, Directive broad band slot. V. H. Rumsey. 2,615,132, Oct. 21.
Antenna, Television. H. A. White. 2,615,005, Oct. 21.
Anthraquinone dyestuff for wool. D. I. Randall and E. E. Renfrew. 2,615,021, Oct. 21.
Apparatus and method for producing thermoplastic fibers. M. A. Chavannes. 2,614,288, Oct. 21.
Apparatus for advancing film stepwise. K. G. Zeuthen. 2,614,456, Oct. 21.
Apparatus for breaking up frozen foods. E. G. Magnus. 2,614,597, Oct. 21.
Apparatus for charging containers with measured quantities of liquid. A. H. Price. 2,614,742, Oct. 21.
Apparatus for chemical reaction detection. H. A. Wilhelm. 2,614,645, Oct. 21.
Apparatus for comparing statistical record cards. A. Thomas. 2,614,750, Oct. 21.
Apparatus for continuously delivering plastic cementitious material to a moving molding surface. E. G. O'Farrell. 2,614,757, Oct. 21.
Apparatus for cooking articles of food in deep grease. J. C. Sinkwitz and R. Szpur. 2,614,485, Oct. 21.
Apparatus for corrugating tubes. O. Klein. 2,614,607, Oct. 21.
Apparatus for cultivating plants under shelter in the fields. R. F. Flékiin. 2,614,366, Oct. 21.
Apparatus for drilling under water. C. H. Carlisle. 2,614,804, Oct. 21.
Apparatus for indicating liquid level. W. F. Hunter and E. W. Jensen. 2,614,427, Oct. 21.
Apparatus for measuring and adjusting the spring pressure on commutator brushes. M. Culkosky. 2,614,421, Oct. 21.
Apparatus for oiling and cleaning pallets. R. O. Davis. 2,614,525, Oct. 21.
Apparatus for recording numerals in code. C. Clos. 2,614,632, Oct. 21.
Apparatus for recovery of solid material from continuous contact filtration process. J. E. Penick and E. V. Bergstrom. 2,614,653, Oct. 21.
Apparatus for separating frozen articles from molds. W. E. Heise. 2,614,510, Oct. 21.
Apparatus for unloading equipment. J. N. Gregory. 2,614,710, Oct. 21.
Apparatus for use in cement lasting footwear. J. S. Kamborian. 2,614,527, Oct. 21.
Apparatus for use in making lantern slides. E. H. Bickley. 2,614,950, Oct. 21.
Apparatus for velocity measurement of a moving fluid. O. Falk. 2,614,425, Oct. 21.
Applying electroconductive films. W. O. Lytle. 2,614,944, Oct. 21.
Arrester trap float valve. R. M. Manning. 2,614,853, Oct. 21.
Article holding apparatus. G. W. Soderman. 2,614,516, Oct. 21.
Article-orienting mechanism for labeling machines. C. E. Keil. 2,614,681, Oct. 21.
Articulated ramp structure for mine cars. J. Binaut. 2,614,755, Oct. 21.
Artificial fish lure. W. D. Kayes, Jr. 2,614,356, Oct. 21.
Artificial leg. E. Feine. 2,614,262, Oct. 21.
Attachment for planes. K. D. White. 2,614,591, Oct. 21.
Automatic control for headlights of motor vehicles. E. M. Pardue and R. D. Higgins. 2,615,079, Oct. 21.
Automatic feeding device. A. E. Davison. 2,614,315, Oct. 21.
Automatic float-actuated watering device for farm animals. F. H. Steel. 2,614,532, Oct. 21.
Automatic float transfer valve. C. W. Taylor. 2,614,576, Oct. 21.
Automatic intermittent feed-and-cut machine for sawing firewood. R. C. and D. R. Coats. 2,614,589, Oct. 21.
Automatic nozzle adjustment for vacuum cleaners and the like. E. D. Thornwald. 2,614,283, Oct. 21.
Automatic rotating descaler for wheel blocks or the like. E. H. Daily and W. E. Schmidt. 2 614,316, Oct. 21.
Automatic steering system. E. J. Wade. 2,615,154, Oct. 21.
Automatic tone control. W. J. Gruen. 2,615,090, Oct. 21.
Automotive air vent filter attachment. K. I. Strinden. 2,614,654, Oct. 21.
Automotive trailer hitch. R. H. Samdahl. 2,614,860, Oct. 21.
Awning. C. F. Stinnett. 2,614,300, Oct. 21.
Awning or canopy. E. A. Lowe. 2,614,299, Oct. 21.
Bag: *See*—
Detachable-label bag.
Ball bearing. C. A. Adams. 2,614,898, Oct. 21.
Ball game device. O. M. Monkres. 2,614,840, Oct. 21.
Ball joint. J. H. Booth. 2,614,873, Oct. 21.
Balloons, Making. V. Vaisälä. 2,614,293, Oct. 21.
Bar: *See*
Intramedullary bar.
Barrel transporting device. H. S. Houser. 2,614,711, Oct. 21.
Basic esters and amides of 7-substituted-coumarin-4-acetic acids and salts and preparation. R. O. Clinton and S. C. Laskowski. 2,615,024, Oct. 21.
Bathtub attachment for care of babies. C. H. Schmidt, Jr. 2,614,264, Oct. 21.
Battery plate. G. E. Brandt. 2,615,061, Oct. 21.
Beam type electron tube. A. C. Grimm. 2,615,138, Oct. 21.
Bean and pea plant cutter. A. R. Madsen. 2,614,376, Oct. 21.
Bearing: *See*—
Ball bearing.
Bearing for grain drill disk. R. L. Erwin. 2,614,895, Oct. 21.
Beater. L. Bordwell. 2,614,818, Oct. 21.

Bedding support. P. C. Hougham. 2,614,269, Oct. 21.
Belt drive for small diameter adjacent cylinders. C. B. Richey. 2,614,440, Oct. 21.
Bin level switch. C. W. McMath. 2,615,102, Oct. 21.
Binder. E. C. Kinney. 2,614,567, Oct. 21.
Binding machine. A. L. Jalbert. 2,614,276, Oct. 21.
Bird cage for entertainers, Folding. M. A. Taylor. 2,614,838, Oct. 21.
Bit: *See*—
Coal drill bit. Rotary bit.
Block molding machine. V. Burkard and D. J. Shepherd. 2,614,308, Oct. 21.
Blood transfusion filter unit. J. E. B. Shaw. 2,614,562, Oct. 21.
Board: *See*
Cruciform checker board. Peg game board.
Drafting board.
Bobbin hanger. C. C. Bell. 2,614,758, Oct. 21.
Bobbin holder. E. J. Abbott. 2,614,759, Oct. 21.
Bobbin, Porous resilient. J. Annicq. 2,614,764, Oct. 21.
Bobbin with strand end attaching means. W. V. Goodhue. 2,614,771, Oct. 21.
Boiler: *See*—
Forced circulation boiler.
Bottle feeding mechanism for washing machines. A. E. Ladewig. 2,614,678, Oct. 21.
Bouncing ball game apparatus. G. H. Forsyth. 2,614,839, Oct. 21.
Bracket: *See*— Venetian blind hold-down bracket.
Sash holding bracket.
Brake operating mechanism. N. Joseph. 2,614,663, Oct. 21.
Brake shoe gauge. R. A. Peters. 2,614,333, Oct. 21.
Brazing jig for finned heat exchanger envelopes. D. G. Peterson. 2,614,517, Oct. 21.
Breaking sinter cake during sintering. W. Kelsey. 2,614,920, Oct. 21.
Bridges for stringed musical instruments. M. Maccaferri. 2,614,448, Oct. 21.
Brightening bath. H. J. Reindl and S. R. Prance. 2,614,913, Oct. 21.
Broiler for frankfurters or similar articles, Rotary vertical. W. Z. Horvat and B. R. Glass. 2,614,486, Oct. 21.
Broom holder with replaceable broom head, Detachable. M. Z. Román. 2,614,282, Oct. 21.
Brow-bar support for goggles. F. W. Lindblom. 2,614,314, Oct. 21.
Building construction roll supporting reel. J. B. Gabrielson. 2,614,770, Oct. 21.
Bumper guard. S. Benian. 2,614,877, Oct. 21.
Buoyancy type liquid metering device. W. C. Stickney. 2,614,578, Oct. 21.
Burner and nozzle tip for projecting hot products of combustion. R. A. Fuller. 2,614,619, Oct. 21.
Bushing inserting tool. O. T. Broyles. 2,614,633, Oct. 21.
Cable pulling eye and making the same. A. A. Bronovicki. 2,615,074, Oct. 21.
Calculator, Unexpired time and maturity date. E. N. Heinz, Sr. 2,614,751, Oct. 21.
Camera and lamp supporting device. J. Markowitz. 2,614,471, Oct. 21.
Can carrier with foldable handle. G. H. Parker. 2,614,737, Oct. 21.
Can flattener. G. W. Coffey. 2,614,604, Oct. 21.
Can piercing device. W. E. Shands. 2,614,319, Oct. 21.
Capacitor manufacturing evaporation apparatus. H. E. Haynes. 2,614,524, Oct. 21.
Capacity control for air conditioning systems. W. L. McGrath. 2,614,394, Oct. 21.
Carburetor with automatic air feed control. A. C. Russell. 2,614,581, Oct. 21.
Card holder. L. S. Kneifel and H. V. Sharlitt. 2,614,350, Oct. 21.
Cargo tester which simulates ship's motion. H. G. Alley, Jr. 2,614,413, Oct. 21.
Carpet fastener. A. C. Elchin. 2,614,284, Oct. 21.
Carrot cutter. L. Greenidge. 2,614,324, Oct. 21.
Carton. W. P. Frankenstein. 2,614,746, Oct. 21.
Carton, Divisible. C. D. Fallert and G. E. Whalley. 2,614,745, Oct. 21.
Case: *See*—
Heated carrying case.
Case hardened rubber pitting chuck. G. W. Ashlock, Jr. 2,614,594, Oct. 21.
Casterable airplane wheel. N. C. Koester and C. D. Cupp. 2,614,775, Oct. 21.
Ceiling fixture for fluorescent lamps. E. F. Guth. 2,615,123, Oct. 21.
Cellulose ester-silver-halide photographic emulsions, Preparing. W. G. Lowe and G. F. Frame. 2,614,931, Oct. 21.
Centrifugal pump. E. R. Wilfley and J. L. Aldred, Jr. 2,614,502, Oct. 21.
Centrifugal spray processing apparatus for sensitized materials. B. E. Luboshez. 2,614,472, Oct. 21.
Centrifuge for separating solids. H. P. Ritsch. 2,614,748, Oct. 21.
Chaise lounge, Convertible. D. G. Wogomon. 2,614,612, Oct. 21.
Charging valve in refrigeration apparatus. E. M. May. 2,614,400, Oct. 21.
Cheese bandage. G. W. Willits. 2,614,936, Oct. 21.
Chemical feeder and feeding. J. K. Farrell. 2,614,574, Oct. 21.
Chip remover for tag notching machines. A. R. Bone. 2,614,631, Oct. 21.
Chloral, Producing. J. A. Pianfetti and D. J. Porter. 2,615,049, Oct. 21.
Chlorinated acetaldehydes utilizing chlorinated acetaldehydes as diluents, Producing. J. A. Pianfetti and D. J. Porter. 2,615,048, Oct. 21.
Choke collar. L. S. Elsinger. 2,614,533, Oct. 21.
Chromic salts, Preparation of. W. A. Stover. 2,615,031, Oct. 21.
Chum pot, bottom sounder, and bait bucket, Combination. F. J. Adams. 2,614,358, Oct. 21.
Cigar lighter windshield structure. W. I. Nissen. 2,614,408, Oct. 21.
Circuit: *See*—
Flash lamp firing circuit.
Circuit protective device. G. V. Zito. 2,615,107, Oct. 21.
Clamp: *See*—
Pivotal disk clamp.
Clamp. C. M. Woodward. 2,614,788, Oct. 21.
Cleaning mop holder. J. H. Gossmann. 2,614,280, Oct. 21.
Cleansing device for rock drills. W. A. Morrison. 2,614,535, Oct. 21.
Clip: *See*—
Hose clip.
Clip. R. L. Yeardley. 2,614,305, Oct. 21.
Clip forming and applying machine. A. Lenart and B. Hellman. 2,614,254, Oct. 21.
Closure means for car couplers. W. J. Metzger. 2,614,716, Oct. 21.
Closure means for pressure cookers. W. A. Welden. 2,614,723, Oct. 21.
Closure operator. C. A. Williams. 2,614,836, Oct. 21.
Clutch: *See*—
Fluid magnetic clutch. Sprag type overrunning clutch.
Sprag type one-way clutch.
Coagulating polyvanadic acid salts. T. S. Perrin. 2,614,905, Oct. 21.
Coal drill bit. A. T. Jones and C. A. Newport. 2,614,814, Oct. 21.
Coating machine for coating flexible sheets. W. T. Snyder. 2,614,522, Oct. 21.
Coil for boilers with vertical sections, Indirectly heated. A. J. Donohue. 2,614,542, Oct. 21.
Coil winding reel assembly. E. H. Laycock. 2,614,588, Oct. 21.
Coiling machine. C. O. Kirchner. 2,614,606, Oct. 21.
Coin handling means for coin controlled vending machines. G. P. Booth and L. M. Smith. 2,614,675, Oct. 21.
Colored aluminum, Making. C. M. Rice. 2,614,912, Oct. 21.
Comb. J. T. Harris. 2,614,569, Oct. 21.
Combination hat and coat rack. J. P. Riblet. 2,614,702, Oct. 21.
Combination loading device and hoist for banana bunches. R. M. Winslow. 2,614,704, Oct. 21.
Combination nut running and setting tool. E. H. Shaff. 2,614,419, Oct. 21.
Composite fabrics bonded together with polyvinyl chloride. H. Ewing and A. Mellor. 2,614,954, Oct. 21.
Composite pipe. J. B. Wagstaff. 2,614,585, Oct. 21.
Composition comprising a thermosetting resin and a dihydroxy alkane containing 6–10 carbon atoms. T. J. Suen and A. M. Schiller. 2,615,003, Oct. 21.
Composition for fabricating paper and making it. B. Chiego. 2,614,924, Oct. 21.
Compressor and engine, Combined. E. C. Cowles. 2,614,497, Oct. 21.
Compressor valve. E. D. Watson. 2,614,854, Oct. 21.
Concrete gun. R. R. Colburn. 2,614,891, Oct. 21.
Condenser. R. R. Hull. 2,614,816, Oct. 21.
Container: *See*—
Hypochlorite bleach container. Portable bait container.
Container and closure therefor. W. H. Robinson. 2,614,727, Oct. 21.
Container closure. J. Robinson. 2,614,868, Oct. 21.
Container forming apparatus. C. E. Palmer. 2,614,466, Oct. 21.
Container partition structure. C. R. Ross. 2,614,715, Oct. 21.
Continuous polymerizing apparatus. I. Allen, Jr., W. R. Marshall, and G. E. Wightman. 2,614,910, Oct. 21.
Control apparatus for conveyer systems. H. E. Daniels. 2,614,684, Oct. 21.
Control means for vehicle mirrors, fog lights, and the like. H. E. Meggitt. 2,614,437, Oct. 21.
Control system for magnetic recorders. M. S. Danisch. 2,614,760, Oct. 21.
Control unit for milking machines. A. G. Perkins. 2,614,530, Oct. 21.
Conveyer and transfer mechanism for wrapping machines. O. Sandberg. 2,614,679, Oct. 21.
Conveyer apparatus. H. L. Bilterman. 2,614,707, Oct. 21.
Conveyer, Cement. G. O. Hoffstetter. 2,614,708, Oct. 21.
Conveyer flight and chain link. R. S. Miller. 2,614,685, Oct. 21.
Conveyer switching system. K. Mullerheim. 2,614,506, Oct. 21.
Conveyer system for spoolers and the like. G. E. Shand, Jr. 2,614,682, Oct. 21.
Cooker, Packaged article. G. D. Elmer. 2,614,480, Oct. 21.
Corner joint. E. Peremi and H. Weimann. 2,614,666, Oct. 21.

Cotton holder for dental use. R. P. Hartig. 2,614,325, Oct. 21.
Countercurrent extraction process and apparatus. M. Bonotto. 2,614,911, Oct. 21.
Coupling: *See*—
Power take-off coupling.
Cover: *See*—
Windshield cover.
Cover feed for wrapping or packing machines. C. T. Hall. 2,614,374, Oct. 21.
Cover locking means for pressure cookers. G. C. Wyman. 2,614,721, Oct. 21.
Covered spring greasing device. T. J. House. 2,614,660, Oct. 21.
Crucible for the purification of molten substances. J. C. Marinace and T. E. Le Loup. 2,615,060, Oct. 21.
Cruciform checker board. J. H. Rice. 2,614,842, Oct. 21.
Crutch gauge. L. J. Zadrozny. 2,614,332, Oct. 21.
Cultivator, Walking. C. B. Merry. 2,614,474, Oct. 21.
Cup depressor. F. T. Moser. 2,614,740, Oct. 21.
Cup rack. J. W. Weisner. 2,614,699, Oct. 21.
Current measuring device. C. J. Brown. 2,615,063, Oct. 21.
Cutter: *See*—
Bean and pea plant cutter. Spring cutter.
Carrot cutter. Sod cutter.
Cutter and forming the same. E. A. Goddard. 2,614,441, Oct. 21.
Cyclic olefins. C. B. Linn. 2,615,055, Oct. 21.
Cylinder head. P. S. Vaughan. 2,614,549, Oct. 21.
Deaerating a suspension of papermaking stock. C. L. Clark and C. Vicario. 2,614,656, Oct. 21.
Deflection control electron discharge device. R. Adler. 2,615,142, Oct. 21.
Defroster control. H. S. King. 2,614,395, Oct. 21.
Dehydration of alcohols. W. P. Burton. 2,614,971, Oct. 21.
Dehydrator plug. M. E. Chandler and S. F. Hunt. 2,614,650, Oct. 21.
Delayed electric mercury switch. A. J. Weaver. 2,615,100, Oct. 21.
Derivative control of servo systems. H. Toomim. 2,615,149, Oct. 21.
Derivatives of 2-methyl-2-formyl-7-hydroxyoctahydrophenanthrene-1-acetic acid and the production thereof. M. N. Huffman. 2,615,041, Oct. 21.
Derivatives of 2-thio-6-amino-1,2,3,4-tetrahydro-2,4-pyrimidinedione. 2,615,020, Oct. 21.
Detachable-label bag. J. G. Barnes. 2,614,349, Oct. 21.
Detecting device for magnetizable members. R. C. Hoff. 2,615,081, Oct. 21.
Developing reel. A. Del Pozo, Jr., and M. W. Mettenleiter. 2,614,765, Oct. 21.
Device for forming knots in neckties. W. H. Sorenson. 2,614,259, Oct. 21.
Device for increasing the effectiveness of the transducing field of a magnetic head. M. Camras. 2,615,097, Oct. 21.
Device for molding shapes from plastic material. W. Neutelings. 2,614,511, Oct. 21.
Dewaxing paper. H. B. Hope. 2,614,922, Oct. 21.
Diamond drill bit for rotary well drilling. J. A. Zublin. 2,614,809, Oct. 21.
Diarylguanidines, Preparation of. D. W. Kaiser and P. F. Hopper. 2,615,045, Oct. 21.
Diesel fuel containing di-tertiary alkyl sulfides as ignition promoters. L. T. Eby. 2,614,914, Oct. 21.
Digester filling in sulfate pulping. O. Tarkkonen. 2,614,923, Oct. 21.
Direct current electrical supply system. J. C. Milne. 2,615,066, Oct. 21.
Dirigible automotive arc welder. E. W. Gommel. 2,615,110, Oct. 21.
Discharge device for vertical retorts. F. J. and E. West. 2,614,974, Oct. 21.
Disinfecting device. A. N. Bierra. 2,614,265, Oct. 21.
Disk harrow angling arm. W. P. Oehler. 2,614,377, Oct. 21.
Dispenser: *See*—
Paper cup dispenser.
Dispensing machine, Beverage. B. E. Mills. 2,614,738, Oct. 21.
Display device. J. A. MacHarg. 2,614,352, Oct. 21.
Display mount. S. L. Goldman. 2,614,353, Oct. 21.
Distributor for loose material. J. H. Holben. 2,614,849, Oct. 21.
Document feeding device. W. L. Cuthbert, Jr. 2,614,837, Oct. 21.
Doll, Dancing. J. R. Zavala. 2,614,362, Oct. 21.
Doll with movable arms. Y. H. and J. A. Musselwhite. 2,614,365, Oct. 21.
Door: *See*—
Folding door. Telescoping door.
Door for refrigerator cars. A. F. O'Connor. 2,614,294, Oct. 21.
Drafting board. M. P. Hite. 2,614,360, Oct. 21.
Drafting lead point shaper. E. H. Rocks. 2,614,534, Oct. 21.
Drain pan attachment for cooking vessels. W. H. Lonskey, Sr. 2,614,482, Oct. 21.
Drier device for boots and the like. R. E. Darbo. 2,614,337, Oct. 21.
Drill. N. G. Melendy. 2,614,811, Oct. 21.
Drill end sharpening means. E. C. Kapnick. 2,614,370, Oct. 21.
Drilling fluid. W. M. Hutchinson. 2,614,979, Oct. 21.
Drinking rim for beer cans. O. W. Carpenter. 2,614,406, Oct. 21.
Drum for inclined axis concrete mixers. C. I. Longenecker. 2,614,819, Oct. 21.
Dry spray equipment. C. W. Britcher. 2,614,528, Oct. 21.
Dynamic braking system. L. S. Apple. 2,615,152, Oct. 21.
Egg separator with thumb operable yolk trap. R. W. Berry. 2,614,592, Oct. 21.
Electric control for phonographs. L. J. Andres. 2,614,674, Oct. 21.
Electric control for trailer brakes. C. R. Bacca. 2,615,103, Oct. 21.
Electric cooking element and range top. H. Tillapaugh. 2,615,117, Oct. 21.
Electric discharge tube containing an alkaline metal. W. H. L. Claessen. 2,615,140, Oct. 21.
Electric ignition and automatic pilot for gaseous fuel burners. S. G. Eskin. 2,614,622, Oct. 21.
Electric induction motor with totally enclosed liquid-proof stator. A. Radice. 2,615,068, Oct. 21.
Electric oil well heater. F. Colby. 2,615,114, Oct. 21.
Electrical control means for driving mechanisms. D. I. Critoph. 2,615,148, Oct. 21.
Electrical indicating system. T. J. Smulski. 2,615,085, Oct. 21.
Electrical measuring system. P. O. Farnham. 2,615,065, Oct. 21.
Electrical precipitator. N. W. Sultzer. 2,614,652, Oct. 21.
Electrical probe. L. H. Tinker. 2,615,077, Oct. 21.
Electrode for determining cationic activity. H. W. Patnode and M. R. J. Wyllie. 2,614,976, Oct. 21.
Electron tube protective system. M. V. Hoover. 2,615,147, Oct. 21.
Electronic comparator device. R. A. Edwards. 2,615,127, Oct. 21.
Electronic tube. M. Ruderfer. 2,615,128, Oct. 21.
Electroplating of zinc and electrolyte therefor. A. E. Chester. 2,614,975, Oct. 21.
Emergency fuel control. W. S. Bobier, Jr. 2,614,617, Oct. 21.
Emulsion polymerization at low temperatures. W. M. St. John, Jr., and C. A. Uraneck. 2,615,009, Oct. 21.
End connector for watch bracelets. O. R. Kostka. 2,614,307, Oct. 21.
Engine: *See*—
Internal-combustion engine.
Engine starter mechanism having a turbine as the prime mover. A. A. Rubbra. 2,614,798, Oct. 21.
Engine synchronization means. P. F. Bechberger and J. D. Peterson. 2,614,392, Oct. 21.
Engraving machine, Mold. A. H. Kiehl. 2,614,464, Oct. 21.
Epoxide resin compositions. S. O. Greenlee. 2,615,008, Oct. 21.
Epoxide resins. S. O. Greenlee. 2,615,007, Oct. 21.
Etherification of hydroquinone. H. W. Grote. 2,615,051, Oct. 21.
Ethyl dichlorophosphine, Preparing. M. S. Kharasch and S. Weinhouse. 2,615,043, Oct. 21.
Ethylene urea, Preparation of. L. J. Lutz. 2,615,025, Oct. 21.
Expansible mold for casting concrete beams. G. B. Price. 2,614,309, Oct. 21.
Extracting cardioactive glycosides from Bovlea volubilis. G. Schenck and F. Rattinger. 2,615,016, Oct. 21.
Extraction of aromatic hydrocarbons with esters of thiolsulfonic acid. W. F. Wolff and C. E. Johnson. 2,615,057, Oct. 21.
Extractive distillation of alcohol-aldehyde solutions. C. E. Morrell, J. Stewart, and C. S. Carlson. 2,614,970, Oct. 21.
Eye protective device. C. A. Ellis. 2,614,255, Oct. 21.
Fabricating plastic Venetian blind ladders. J. L. Hunter and T. A. Martin. 2,614,956, Oct. 21.
Fastener: *See*—
Carpet fastener. Pane fastener.
Fastener stud. W. Dzus. 2,614,306, Oct. 21.
Ferric dimethyl dithiocarbamate and bismuth salt of 5-chloro-2-mercaptobenzothiazole fungicidal composition. A. A. Somerville. 2,614,960, Oct. 21.
Ferric salt of mercaptobenzothiazole and zinc dimethyl dithiocarbamate fungicidal composition. A. A. Somerville. 2,614,959, Oct. 21.
Fertilizer distributor. W. A. Hyland and R. R. Borngraeber. 2,614,850, Oct. 21.
Fiber-forming apparatus. A. Cresswell and I. Wizon. 2,614,289, Oct. 21.
Film gate for projection apparatus. R. M. Gile. 2,614,455, Oct. 21.
Film projector housing construction. D. I. Critoph, J. F. Herrmann, and F. H. Wolford. 2,614,458, Oct. 21.
Film stripper-stop for extrusion-loading apparatus. W. H. Horton and P. J. Ernisse. 2,614,763, Oct. 21.
Filter: *See*—
Recirculation filter.
Filter aerator for aquaria. T. H. Hansen. 2,614,529, Oct. 21.
Filter material. S. H. Katz. 2,614,655, Oct. 21.
Finger hook. H. C. Ziemke. 2,614,878, Oct. 21.

Fire alarm and extinguisher holder, Combined. A. J. Paladino. 2,614,519, Oct. 21.
Fishhook rack. W. G. Galbraith, W. T. Williams and C. T. Abraham. 2,614,359, Oct. 21.
Fishing line. D. Lippey. 2,614,451, Oct. 21.
Fishing reel. W. Shakespeare, Jr. 2,614,768, Oct. 21.
Flap mechanism. R. F. Donovan. 2,614,774, Oct. 21.
Flash lamp firing circuit. H. L. Malone and E. S. Marvin. 2,614,409, Oct. 21.
Flash lamp socket with ejector. M. Schwartz and W. Castedello. 2,615,071, Oct. 21.
Flash synchronizer for cameras. C. E. Johnson, G. Harnden and R. F. McCammon. 2,614,467, Oct. 21.
Flight controller for automatic pilot. F. H. S. Rossire. 2,614,776, Oct. 21.
Float operated valve. T. E. Crockett. 2,614,579, Oct. 21.
Floating tank roof. J. H. Wiggins. 2,614,717, Oct. 21.
Floor furnace. H. L. Glwosky. 2,614,554, Oct. 21.
Flotation apparatus. K. L. Tatman. 2,614,821, Oct. 21.
Flow control unit. H. Allen. 2,614,795, Oct. 21.
Fluid magnetic clutch. B. A. Waderlow and W. S. Horton. 2,614,668, Oct. 21.
Fluid-operable control mechanism for variable delivery fluid pumps. W. R. Tucker. 2,614,500, Oct. 21.
Fluid operable motor embodying annular series of opposed coaxial cylinders and pistons. J. E. Morton. 2,614,540, Oct. 21.
Fluid pressure actuated reversing valve for hydraulic rams. W. Ernst. 2,614,539, Oct. 21.
Fluid seal. F. A. Helfrecht. 2,614,874, Oct. 21.
Flush tank repair seat. S. M. Kass. 2,614,263, Oct. 21.
Folding door. R. E. Miller. 2,614,627, Oct. 21.
Footage indicator for motion-picture apparatus. E. S. McKee. 2,614,752, Oct. 21.
Force measuring system employing piezocapacitors. H. B. Hollmann. 2,614,416, Oct. 21.
Forced circulation boiler. J. W. Hood. 2,614,543, Oct. 21.
Form for molding concrete footings and walls. C. H. Shook. 2,614,311, Oct. 21.
Frame: *See*—
Picture frame. Window frame.
Rod positioning frame.
Fractional fusion apparatus. J. G. Aston and S. V. R. Mastrangelo. 2,614,909, Oct. 21.
Fracture supporting device. E. S. Lovell. 2,614,558, Oct. 21.
Frequency analyzer system. H. R. Foster and E. E. Crump. 2,615,078, Oct. 21.
Frequency modulation of electron discharge devices. L. P. Smith. 2,615,156, Oct. 21.
Frequency receiving bell with an elecastically yieldable diaphragm extending across its mouth. W. S. Eaton. 2,614,646, Oct. 21.
Friction shock absorber for trucks of railway cars. W. E. Withall. 2,614,831, Oct. 21.
Fruit coring machine. W. de Back, S. Puccinelli and R. A. McCloud. 2,614,595, Oct. 21.
Fry shield. H. K. Loop. 2,614,718, Oct. 21.
Fuel duration meter. V. E. Payne. 2,614,422, Oct. 21.
Fuel injection system for reversible internal-combustion engines. P. E. Wiene. 2,614,495, Oct. 21.
Fuel injector. W. M. Nichols. 2,614,888, Oct. 21.
Furnace: *See*—
Floor furnace.
Gallic esters, Preparing. H. Von Bramer and M. L. Clemens, Jr. 2,615,042, Oct. 21.
Game device with multiple cylinder, Whirling. Q. Wee. 2,614,843, Oct. 21.
Garment, Body supporting. A. H. Searles. 2,614,256, Oct. 21.
Garment construction. M. Breier. 2,614,258, Oct. 21.
Garment hanger. C. B. Williams. 2,614,735, Oct. 21.
Gas bubble elimination in liquid-cooled electrical apparatus. K. K. Paluev. 2,615,075, Oct. 21.
Gas mixing method and blowpipe apparatus. J. Villoresi and A. P. Scheller. 2,614,616, Oct. 21.
Gas rectifier tube employing magnetic field. J. H. Coleman. 2,615,139, Oct. 21.
Gas separation. L. W. Royer. 2,614,904, Oct. 21.
Gas turbine plant having a plurality of flame tubes and axially slidable means to expose same. G. B. R. Feilden. 2,614,384, Oct. 21.
Gaseous flow regulator. S. H. Christensen. 2,614,747, Oct. 21.
Gauge: *See*—
Brake shoe gauge. Liquid level gauge.
Crutch gauge.
Gauge for indicating pressure increase caused by heat in tires. D. H. Welsh and E. A. Means. 2,614,429, Oct. 21.
Glycerine, Producing. B. T. Brooks. 2,614,964, Oct. 21.
Goniometer, X-ray single crystal. H. T. Evans, Jr. 2,615,136, Oct. 21.
Granular silicon carbide and making same. C. B. Proudfoot. 2,614,946, Oct. 21.
Gravity filling machine with pneumatically discharge controlling cutoff. W. E. Gross. 2,614,741, Oct. 21.
Gravity meter. R. T. Cloud. 2,614,432, Oct. 21.
Grease compositions. J. L. Dreher and C. F. Carter. 2,614,987, Oct. 21.
Greases based on finely divided inorganic material. A. Beerbower and A. J. Morway. 2,614,986, Oct. 21.
Grinding wheel dresser. C. M. Griffin. 2,614,552, Oct. 21.
Grooving machine. E. E. Barkstrom. 2,614,463, Oct. 21.
Guanidine and melamine, Preparation of. W. J. Klapproth, Jr. 2,615,019, Oct. 21.
Guanidine thiocyanate, Preparation of. N. H. Marsh. 2,615,044, Oct. 21.
Guard for power-driven conveyers. J. B. Long. 2,614,686, Oct. 21.
Guide for oscillatory loading head. C. N. Bebinger. 2,614,677, Oct. 21.
Guiding and feeding mechanism for endless typewriter ribbons. A. L. Pessoa. 2,614,676, Oct. 21.
Gum massager. M. Staunt. 2,614,556, Oct. 21.
Gummed tape serving and moistening mechanism. R. A. Havemann, D. S. Bruce and C. B. MacRae. 2,614,523, Oct. 21.
Hair clipper attachment. C. Mueller. 2,614,323, Oct. 21.
Hairpin. F. G. Hall. 2,614,570, Oct. 21.
Hand rail and shelf construction for stepladders. M. Hedglon. 2,614,744, Oct. 21.
Handle: *See*—
Ski pole handle.
Handle for shovels or the like, Detachable. S. J. Citso. 2,614,879, Oct. 21.
Hanger: *See*—
Bobbin hanger. Plate hanger.
Garment hanger.
Hanger or rack attachment for beds, Slipper. S. D. Davies. 2,614,268, Oct. 21.
Harvester, Corn. J. D. Barnard and A. Leverson. 2,614,378, Oct. 21.
Harvester for pea vines and the like. W. W. Porter. 2,614,379, Oct. 21.
Headrest for creepers. R. H. Neil. 2,614,271, Oct. 21.
Heat-sealing element. J. A. Anglada. 2,614,953, Oct. 21.
Heat-sealing tool. J. Frye. 2,615,113, Oct. 21.
Heated carrying case. D. A. Lagan, Jr. 2,615,112, Oct. 21.
Heater: *See*—
Electric oil well heater. Magazine heater.
High temperature fluid heater.
Heel and shank lock for shoes. F. L. Brandt. 2,614,343, Oct. 21.
Herbicidal composition of matter, Making. J. C. R. Warren and F. M. J. Hager. 2,614,919, Oct. 21.
High-frequency electron discharge tube of the traveling wave type. C. W. Hansell. 2,615,141, Oct. 21.
High-power vacuum tube. S. M. Duke. 2,615,137, Oct. 21.
High temperature fluid heater. W. H. Armacost and D. M. Schoenfeld. 2,614,541, Oct. 21.
High viscosity low freezing organo-siloxane fluids. M. J. Hunter and H. J. Fletcher. 2,614,989, Oct. 21.
Hinge. W. A. Snell. 2,614,285, Oct. 21.
Hoist. L. McGlhon. 2,614,802, Oct. 21.
Holder: *See*—
Bobbin holder. Sliding window sash holder.
Card holder.
Cleaning mop holder.
Holder for roll toilet tissue. F. J. Moore. 2,614,762, Oct. 21.
Hole boring machine. G. H. Connors. 2,614,806, Oct. 21.
Homokinetic joint. G. L. A. Devos. 2,614,404, Oct. 21.
Hood forming machine. E. M. Wheeler. 2,614,513, Oct. 15.
Hook: *See*—
Finger hook.
Hopper door unit and material spreader assembly for airplanes. W. H. Anderson. 2,614,733, Oct. 21.
Horizontal oil and gas separator. S. A. Wilson. 2,614,648, Oct. 21.
Hose clip. H. Oetiker. 2,614,304, Oct. 21.
Hose reeling apparatus. J. P. Pavlak. 2,614,434, Oct. 21.
Hydraulic brake master cylinder reservoir float switch. D. M. Whitney. 2,615,105, Oct. 21.
Hydraulic coupler valve construction. R. M. Ulrich. 2,614,866, Oct. 21.
Hydraulic press. H. M. Purcell. 2,614,488, Oct. 21.
Hydraulic reach tightener. F. F. Bean. 2,614,864, Oct. 21.
Hydraulic valve tappet operable to vary valve-lift and valve-timing. H. A. Meinecke. 2,614,547, Oct. 21.
Hydrocarbon oils containing S-alkoxymethyl-O,O'-dialkyldithiophosphates. E. O. Hook and P. H. Moss. 2,614,988, Oct. 21.
Hypochlorite bleach container. A. C. Stoneman. 2,614,690, Oct. 21.
Illuminated level. F. D. Coombs. 2,615,122, Oct. 21.
Illuminating system for paintings and the like. W. E. Cox. 2,615,121, Oct. 21.
Inclinometer for boreholes. A. B. Hildebrandt. 2,614,334, Oct. 21.
Indicator: *See*—
Pie and cake division indicator.
Indicator for telephone switchboards. J. F. Welch. 2,615,096, Oct. 21.
Inhibiting corrosion in oil wells. M. L. Lytle. 2,614,980–1, Oct. 21.
Instrument for determining relative levels. J. J. Wisney. 2,614,572, Oct. 21.
Instrument, Ligature applying. M. C. L. Giaccaglia and R. A. Mudry. 2,614,564, Oct. 21.

Instrument, Measuring. C. I. Cederholm. 2,614,330, Oct. 21.
Instrument, Ophthalmic. C. A. Ellis and H. B. Cole. 2,614,557, Oct. 21.
Insulated tank vehicle. F. A. Beyer, R. A. Bradley, and H. W. Crank. 2,614,856, Oct. 21.
Intermittent explosion unit for gas turbine plants. J. H. Anderson. 2,614,387, Oct. 21.
Internal-combustion engine. A. Schwarz. 2,614,546, Oct. 21.
In the method of making finely divided silica, the production of a combustible mixture comprising chloro silicon hydrides. L. Spialter and C. A. MacKenzie. 2,614,906, Oct. 21.
Intramedullary bar. H. H. Livington. 2,614,559, Oct. 21.
Ironing machine, Portable domestic. F. M. Freis. 2,614,347, Oct. 21.
Isomerization of aromatic compounds. J. E. Nickels. 2,615,056, Oct. 21.
Jack: *See*—
Reversible hydraulic jack. Roof jack.
Jig for line reaming and boring machine. W. H. Evans. 2,614,443, Oct. 21.
Joint: *See*—
Ball joint. Homokinetic joint.
Corner joint. Tubular joint.
Joint for furniture construction. H. E. Johnson. 2,614,302, Oct. 21.
Keratin exfoliative compositions. W. O. Elson. 2,614,963, Oct. 21.
Keyed automatic gain control system. G. F. Rogers. 2,615,089, Oct. 21.
Knockdown type platform for metal sheets and the like. C. E. Miller. 2,614,689, Oct. 21.
Lamp: *See*—
Pocket sun health lamp.
Lamp bulb, Electric. E. A. Hörberg. 2,615,073, Oct. 21.
Lamphouse for printing apparatus. H. H. Hillmer and H. P. Orent. 2,614,470, Oct. 21.
Land leveler. J. V. Howard. 2,614,346, Oct. 21.
Lasting machine. B. Jorgensen. 2,614,275, Oct. 21.
Latch. F. McConnell. 2,614,876, Oct. 21.
Latch for pivoted locking bolts for repeating firearms. V. A. Browning. 2,614,462, Oct. 21.
Lawn mower grass catcher. P. G. Gates. 2,614,380, Oct. 21.
Lawn sprinkler, Telescopic. G. H. Shields. 2,614,887, Oct. 21.
Leaf holder for desk calendars. W. H. McConnaughy. 2,614,566, Oct. 21.
Leg construction for ironing boards, Adjustable. C. Buser. 2,614,348, Oct. 21.
Leg rest, Portable foldable. H. W. Bushong. 2,614,613, Oct. 21.
Level sensitive switch. R. A. Hanson. 2,615,099, Oct. 21.
Lid assembly. H. W. Whitmore. 2,614,719, Oct. 21.
Lifting concrete products, Method and apparatus for. H. C. Berchem, Jr., and H. F. Pierce. 2,614,880, Oct. 21.
Lifting device for invalids. F. B. Perri. 2,614,267, Oct. 21.
Light-dividing system. J. H. Coote and G. Murray. 2,614,452, Oct. 21.
Lightning arrester arc gap. G. Rydbeck. 2,615,145, Oct. 21.
Liquid distributor. A. J. Dewdney. 2,614,886, Oct. 21.
Liquid level gauge. T. B. Darlington. 2,614,426, Oct. 21.
Load indicating device. F. Miller. 2,614,420, Oct. 21.
Lock: *See*—
Tire, wheel, and hubcap lock.
Loom harness. J. J. Kaufmann. 2,614,586, Oct. 21.
Louver construction. D. O. Axtell. 2,614,301, Oct. 21.
Low water-loss cement slurry. P. J. Lea. 2,614,998, Oct. 21.
Low water-loss cement slurry and cementing. P. J. Lea and H. B. Fisher. 2,614,634, Oct. 21.
Lubricating composition containing boric acid. D. L. Cook. 2,614,985, Oct. 21.
Lubricating composition of matter. D. Harman and R. E. Thorpe. 2,614,990, Oct. 21.
Lubricator: *See*—
Top cylinder lubricator.
Lumber unstacking and distributing apparatus. M. D. and R. I. Barney and E. A. Jordan. 2,614,706, Oct. 21.
Luminescent tube system and apparatus. J. H. Bridges. 2,615,067, Oct. 21.
Machine for boring connecting rods. E. A. Arp. 2,614,442, Oct. 21.
Machine for cutting tobacco and the like. P. Q. R. Schreiber. 2,614,596, Oct. 21.
Machine for mounting snap fasteners or the like having tape advancing means. W. A. Erhardt, Jr. 2,614,714, Oct. 21.
Machine for rinsing bottled fruits and the like. B. C. Eisenberg. 2,614,680, Oct. 21.
Machine for roughening leather and plastic materials. E. Tonblanc. 2,614,411, Oct. 21.
Machine for slitting the margins of shoe uppers. J. Gudger. 2,614,277, Oct. 21.
Machine tool. A. R. Chasar. 2,614,435, Oct. 21.
Machine tool. L. F. Polk and W. F. Aller. 2,614,368, Oct. 21.
Magazine heater. E. L. Cox and J. W. Guice. 2,614,553, Oct. 21.
Magnetron. E. G. Linder. 2,615,144, Oct. 21.
Magnetron electron discharge device. W. C. Brown. 2,615,143, Oct. 21.
Main bearing for multicrank engines. R. N. Kircher and W. B. Burkett. 2,614,897, Oct. 21.
Manifold set. A. G. Shennan. 2,614,865, Oct. 21.
Manually adjustable pressure regulator. C. D. P. Smallpeice. 2,614,538, Oct. 21.
Manufacturing and repairing roofs of railway wagons and similar vehicles. J. C. Marimón. 2,614,509, Oct. 21.
Mass analyzing apparatus. W. E. Glenn, Jr. 2,615,135, Oct. 21.
Material cutting device. H. R. Rosenberry. 2,614,320, Oct. 21.
Mechanical advantage operator. H. Allen. 2,614,520, Oct. 21.
Mechanical counting relay. K. W. Graybill and H. Sengebusch. 2,615,086, Oct. 21.
Mechanical foam fluid formulation for alcohol fires. R. L. Tuve and H. B. Peterson. 2,614,978, Oct. 21.
Mechanical pointing device. W. H. Dance. 2,614,412, Oct. 21.
Mechanism for raising aircraft hangar doors. A. D. Margison and A. Craigon. 2,614,835, Oct. 21.
Melamine, Preparation of. L. C. Lane. 2,615,018, Oct. 21.
Mercapto azoles in developer for mixed grain photographic process. B. H. Carroll and F. A. Richey. 2,614,925, Oct. 21.
Mercury cathode electrolytic cell. W. Wood and C. E. Bowen. 2,614,977, Oct. 21.
Metal balls, Making. E. Deüssen. 2,614,317, Oct. 21.
Metal stock oiler. A. J. Zaber and J. D. Gray. 2,614,526, Oct. 21.
Meter: *See*—
Fuel duration meter. Gravity meter.
Method of and vortex-type furnace for burning waste fuel. H. C. L. Miller and H. A. Raddin. 2,614,513, Oct. 21.
Micrometer. C. F. Sherwin. 2,614,331, Oct. 21.
Mining machine. F. B. Miller. 2,614,822, Oct. 21.
Mirrors, Producing. A. M. Franza. 2,614,943, Oct. 21.
Mixed diluent system for copolymerization of styrene and isobutylene. G. E. Jasper and L. M. Welch. 2,615,004, Oct. 21.
Mixed triglycerides. F. J. Baur. 2,615,160, Oct. 21.
Mixer feeder for flour mills. C. A. Pyle and C. A. Roulston. 2,614,817, Oct. 21.
Mixing valve. F. H. Parker. 2,614,851, Oct. 21.
Mobile starch powders, Making. G. A. Krisan. 2,614,945, Oct. 21.
Moisture collecting device. W. G. Anderson, Jr., and H. R. Kohlhepp. 2,614,883, Oct. 21.
Mold freezing apparatus. W. E. Heise. 2,614,403, Oct. 21.
Mold trimmer. O. H. Loock. 2,614,326, Oct. 21.
Molding process. W. M. Duncan. 2,614,303, Oct. 21.
Molding tubular concrete articles. D. H. Rankin and C. E. Little. 2,614,312, Oct. 21.
Motor: *See*—
Adjustable stroke hydraulic motor.
Motor brake control. W. Groen. 2,615,153, Oct. 21.
Motor construction, Electric. W. P. Gallagher. 2,615,069, Oct. 21.
Mounting: *See*— Ophthalmic mounting.
Adjustable scraper blade mounting. Railway vehicle axle mounting.
Mounting for recessed lighting fixtures. K. Versen. 2,614,785, Oct. 21.
Mounting for vertically movable tandem wheels. E. F. Norelius. 2,614,641, Oct. 21.
Mouth-protecting device. H. P. Lee. 2,614,560, Oct. 21.
Muffler with a plurality of expansion chambers. E. E. Bryant. 2,614,647, Oct. 21.
Multicylinder rotary abutment hydraulic power converter. F. Berry. 2,614,503, Oct. 21.
Multiple position control device for aircraft. O. M. Garmon. 2,614,438, Oct. 21.
Multiple spindle lathe. C. E. Miller. 2,614,446, Oct. 21.
Multistage turbine disk construction for gas turbine engines. C. A. Judson, J. R. Read, and P. E. Hunter. 2,614,799, Oct. 21.
N-substituted formamidines. J. G. Erickson. 2,615,023, Oct. 21.
Navigation system. P. A. Noxon. 2,614,335, Oct. 21.
Nitrobenzeneazo-N-difluoroalkyl-N-hydroxyalkylaniline dye compounds. J. B. Dickey. 2,615,014, Oct. 21.
Noncrystallizing copper phthalocyanine, Producing. F. P. Bluemmel and L. D. Lytle. 2,615,027, Oct. 21.
Noncrystallizing copper phthalocyanine, Producing. L. D. Lytle. 2,615,026, Oct. 21.
O,O - di (4 - chlorophenyl) N - alkylamidothiophosphates. C. L. Moyle. 2,615,037, Oct. 21.
O,O - di(polyhalophenyl) N - substituted amidothiophosphates. C. L. Moyle. 2,615,038, Oct. 21.
Obturator for high viscosity liquids. J. P. Labour. 2,614,789, Oct. 21.
Oil filter cartridge. O. P. Sather. 2,614,694, Oct. 21.
Oil return mechanism for refrigeration systems. R. H. Swart. 2,614,402, Oct. 21.

Oleo pneumatic shock absorber. E. Laugaudin. 2,614,833, Oct. 21.
One-way seal. L. W. Storm. 2,614,793, Oct. 21.
Opacity sensing device. G. D. Macarthur. 2,614,453, Oct. 21.
Ophthalmic mounting. E. D. Ditto. 2,614,459, Oct. 21.
Optical imaging system. W. W. Miller. 2,614,460, Oct. 21.
Optical objective, Four component. A. Warmisham. 2,614,461, Oct. 21.
Orifice structure, Fluid flow. J. H. Carbone. 2,614,423, Oct. 21.
Oscillator controlled measuring and controlling apparatus. W. H. Wannamaker, Jr. 2,615,151, Oct. 21.
Oscillogram reader. J. D. Russell. 2,614,327, Oct. 21.
Overload release for load actuator. J. M. Launder. 2,614,672, Oct. 21.
Package binding machine J. J. Cheesman. 2,614,487, Oct. 21.
Package of coreless tube wound bundle of twine. H. Epstein. 2,614,772, Oct. 21.
Packing stand. R. B. Roberston 2,614,611, Oct. 21.
Paint stripping compositions. A. Mankowich. 2,614,992, Oct. 21.
Pan, Boiling. C. A. Steen. 2,614,730, Oct 21.
Pane fastener. I. M. Kirlin. 2,614,667, Oct. 21.
Paper cup dispenser. C. L. Roy. 2,614,687, Oct. 21.
Pebble heat exchanger. L. J. Weber. 2,614,824, Oct. 21.
Pebble heater and converting hydrocarbons. R. K. Simms. 2,614,968, Oct. 21.
Pebble heater apparatus. R. Berkemeyer. 2,614,823, Oct. 21.
Peg game board. B. Joseph. 2,614,841, Oct. 21.
Pellet-cutting mechanism. L. F. Street. 2,614,290, Oct. 21.
Petroleum oil refining process. B. M. Vanderbilt and A. H. Gleason. 2,614,967, Oct. 21.
Pharmaceutical composition for use in the treatment of keretin. W. O. Elson. 2,614,962, Oct. 21.
Phonograph, Automatic. C. G. Johnson. 2,614,847, Oct. 21.
Phonograph needle. W. E. Kidd and R. L. Metzenberg. 2,614,848, Oct. 21.
Photographic emulsions, Preparing. H. C. Yutzy and G. F. Frame. 2,614,928, Oct. 21.
Photographic emulsions, Preparing. H. C. Yutzy and F. J. Russell. 2,614,929, Oct. 21.
Photographic product comprising an additive color screen, a silver halide layer, and a rupturable container, and a process of additive color photography. E. H. Land. 2,614,926, Oct. 21.
Photographic stripping film. G. F. Nadeau, C. B. Starck, and C. F. Smith. 2,614,932, Oct. 21.
Photoprinting apparatus. H. H. Hillmer and H. P. Orent. 2,614,469, Oct. 21.
Picture frame. L. V. J. Winslow. 2,614,354, Oct. 21.
Pie and cake division indicator. S. A. Urshan. 2,614,328, Oct. 21.
Pigmentary materials. F. W. Lane. 2,615,006, Oct. 21.
Pilot relay valve. S. S. Di Maggio, Jr. 2,614,583, Oct. 21.
Pipe: *See*—
Composite pipe. Smoker's pipe.
Pipe-bending machine. E. Senna. 2,614,605, Oct. 21.
Piston ring. H. P. Phillips. 2,614,899, Oct. 21.
Pivot for plier type tools. H. D. Brock. 2,614,894, Oct. 21.
Pivotal disk clamp. W. J. Spear. 2,614,783, Oct. 21.
Plant growth regulants. J. W. Zukel and W. D. Harris. 2,614,917, Oct. 21.
Plastic shortenings and producing same. F. J. Baur and W. Lange. 2,614,937, Oct. 21.
Plate hanger. R. Graves. 2,614,778, Oct. 21.
Plow, Obstruction responsive root cutting. C. W. Jennings. 2,614,476, Oct. 21.
Plug: *See*—
Dehydrator plug. Spark plug.
Pneumatic apparatus for measuring fluid pressure. J. C. Thoresen. 2,614,424, Oct. 21.
Pocket panel construction, Multiple. A. Lipshitz. 2,614,260, Oct. 21.
Pocket sun health lamp. M. E. Macksoud. 2,615,120, Oct. 21.
Polyamide molding powder. M. J. Hurwitz. 2,615,002, Oct. 21.
Polyvinyl alcohol-silver halide photographic emulsions, Preparing. W. G. Lowe and K. P. Griffin. 2,614,930, Oct. 21.
Portable bait container. C. R. Stoddard, Jr. 2,614,357, Oct. 21.
Portable elevatory platform unit. C. D. Garlinger and R. E. Fuller. 2,614,800, Oct. 21.
Portable power unit. D. E. Cuckler. 2,614,433, Oct. 21.
Positional correspondence control system. J. H. Liversidge. 2,615,150, Oct. 21.
Posthole digger. V. A. M. Swan. 2,614,805, Oct. 21.
Poultry drinking valve. W. A. Futterer. 2,614,531, Oct. 21.
Poultry shackle. E. J. Crane. 2,614,287, Oct. 21.
Power take-off coupling. L. R. Clausen. 2,614,405, Oct. 21.
Power transmission. F. B. Miller. 2,614,388, Oct. 21.
Precision balance. Z. Kadlec and E. Douša. 2,614,825, Oct. 21.
Press: *See*—
Hydraulic press.
Press platen for laminated material. D. E. Hervey. 2,614,590, Oct. 21.
Pressure cooker. W. A. Welden. 2,614,726, Oct. 21.
Pressure cooker and the like. W. A. Welden. 2,614,725, Oct. 21.
Pressure cooker with automatic vent. G. C. Wyman. 2,614,722, Oct. 21.
Pressure cooker with protective shield. W. A. Welden and G. C. Wyman. 2,614,720, Oct. 21.
Pressure cooker with selectively adjustable vent valve. G. C. Wyman. 2,614,724, Oct. 21.
Pressure fluid seal controlling device. C. B. Kidney. 2,614,797, Oct. 21.
Pressure molding laminates. T. M. Halsall. 2,614,955, Oct. 21.
Pressure regulator. L. E. Grosboll. 2,614,367, Oct. 21.
Pressure responsive switch. N. F. Hosford. 2,615,104, Oct. 21.
Pressure sealed relief valve. T. A. St. Clair. 2,614,582, Oct. 21.
Preventing water encroachment in oil wells. P. S. Williams and H. J. Welge. 2,614,635, Oct. 21.
Prevention of corrosion in wells. J. A. Caldwell and M. L. Lytle. 2,614,982–3, Oct. 21.
Printing. G. R. Brodie. 2,614,493, Oct. 21.
Printing, Method of and apparatus for. G. R. Brodie. 2,614,492, Oct. 21.
Producing finely divided sulfur. D. C. Railsback. 2,614,908, Oct. 21.
Producing modified machine elements. M. W. Freeman. 2,614,948, Oct. 21.
Production and recovery of hydrogen peroxide. G. A. Cook. 2,614,907, Oct. 21.
Propellent insecticide comprising o-cyclohexylcyclohexenone, pyrethrins and piperonyl butoxide. J. B. Dickey and H. W. Coover, Jr. 2,614,961, Oct. 21.
Protective cover for automobile storage batteries. R. C. Hall and R. E. Mock. 2,614,598, Oct. 21.
Protractor. G. A. Almorth. 2,614,329, Oct. 21.
Psychrometer. R. M. Braun. 2,614,428, Oct. 21.
Pump: *See*—
Centrifugal pump. Screw pump.
Pumping apparatus. L. W. O'Kelley. 2,614,496, Oct. 21.
Purification of secondary butyl acetate. W. S. Harney, Jr. 2,614,972, Oct. 21.
Purifying naphthalene by crystallization. W. Swietoslawski. 2,615,058, Oct. 21.
Quick-closing substantially balanced gate valve. I. B. Laskowitz. 2,614,790, Oct. 21.
Rack: *See*—
Combination hat and coat rack. Fishhook rack.
Cup rack. Toasting or broiling rack.
Utility rack.
Rack for milk buckets or like containers. J. L. Kjeldsen. 2,614,700, Oct. 21.
Radiant plate and baffle for heating burners. H. E. Martindale and F. E. Janquart. 2,614,514, Oct. 21.
Radio object locating system. E. K. Stodola. 2,615,158, Oct. 21.
Railway car wheel flange oiler. H. P. Fisher. 2,614,661, Oct. 21.
Railway spike. H. R. Oltz and H. J. Fanger. 2,614,450, Oct. 21.
Railway vehicle axle mounting. J. M. Archambault. 2,614,508, Oct. 21.
Raising and lowering facilities for deep well cooker beaters. W. D. Kelly. 2,615,118, Oct. 21.
Ranging and identification system. W. N. Dean. 2,615,157, Oct. 21.
Rapid processing of photographic materials. G. Broughton and R. N. Woodward. 2,614,927, Oct. 21.
Razor, Safety. C. Ackerman. 2,614,321, Oct. 21.
Reaction product of oleyl alcohol and aluminum chloride, Preparing. R. C. Harrington, Jr. 2,615,032, Oct. 21.
Reaction product of thiourea, and aldonic acid and zinc oxide. A. E. Chester. 2,615,030, Oct. 21.
Receptacle. D. W. Molins, F. F. Ruau, N. W. Jackson and C. G. Bruce. 2,614,703, Oct. 21.
Recirculation filter. E. Crane. 2,614,696, Oct. 21.
Record player. J., and E. Robinson. 2,614,844, Oct. 21.
Recorder, Autographic. F. Barvitius. 2,614,902, Oct. 21.
Recorder, Automatic voice. R. M. Cain. 2,614,846, Oct. 21.
Recorder, Phone call. W. F. Weyrauch. 2,615,093, Oct. 21.
Recorder, Scanning. H. A. Stamper, B. G. Blackman and D. O. Nelson. 2,614,903, Oct. 21.
Recorder, Wire. C. B. Dale. 2,614,845, Oct. 21.
Recording head for facsimile reproduction and the like. C. W. Jacob. 2,614,901, Oct. 21.
Recording instrument and equipment. W. H. V. Clarke and T. S. Parramore. 2,614,900, Oct. 21.
Recovering gas suspended liquid-soluble material, Method and apparatus for. H. A. Wintermute. 2,614,651, Oct. 21.
Recovering gaseous hydrocarbons. J. L. Maher and C. O. Meyers. 2,614,658, Oct. 21.
Recovering germ oil. M. M. Rosten. 2,615,029, Oct. 21.
Recovery of metallic minerals from phosphate-silica ores containing minor amounts of the metallic minerals. J. E. Lawver. 2,614,692, Oct. 21.

Recovery of rubberlike polymer from a latex. J. E. Troyan. 2,615,010, Oct. 21.
Recovery of xylidines. S. F. Birch, F. A. Fidler and R. A. Dean. 2,615,047, Oct. 21.
Reel: *See*—
Adjustable self-transporting thread store reel.
Developing reel.
Fishing reel.
Spinning reel.
Refining crude inositol-containing solutions and for recovering inositol therefrom. N. E. Artz and W. Hach. 2,615,053, Oct. 21.
Refractory articles and making. A. H. Heyroth. 2,614,947, Oct. 21.
Refrigerated sales display kit. R. E. Petty. 2,614,397, Oct. 21.
Refrigerating system for motor vehicles. A. C. Ratermann. 2,614,396, Oct. 21.
Refrigeration. E. L. Schulz and E. A. Bailey. 2,614,393, Oct. 21.
Refrigerator and cover therefor, Top access. B. Roberts. 2,614,401, Oct. 21.
Registering color plates. G. C. Murphy. 2,614,491, Oct. 21.
Regulating stroke of fluid-pressure apparatus. J. H. Starr. 2,614,537, Oct. 21.
Regulator: *See*—
Aircraft breathing oxygen regulator.
Gaseous flow regulator.
Manually adjustable pressure regulator.
Pressure regulator.
Voltage regulator.
Reinforced door of wood and/or insulation material. J. B. Een. 2,614,295, Oct. 21.
Remote-control recording mechanism. F. R. Saxby. 2,614,489, Oct. 21.
Rendering visible the stereometrical (spatial) structure of objects, and in particular for preparations for histological investigations. C. Steffen. 2,614,454, Oct. 21.
Repair member for bottle cases. E. C. Peterson. 2,614,713, Oct. 21.
Repeat valve shutoff mechanism. E. M. Kreidler. 2,614,728, Oct. 21.
Retainer for vegetables and like products while cooking the same. P. A. Caruso. 2,614,484, Oct. 21.
Reversible hydraulic drive, including follow-up system. E. J. Poitras and J. D. Tear. 2,614,390, Oct. 21.
Reversible hydraulic jack. F. S. Coyle. 2,614,389, Oct. 21.
Revolving distributor. J. F. Baier. 2,614,709, Oct. 21.
Revolving spring tooth harrow. D. L. Calkins. 2,614,375, Oct. 21.
Ring: *See*—
Piston ring.
Rock drilling apparatus. J. C. Curtis. 2,614,807, Oct. 21.
Rock drilling apparatus. J. C. Curtis and E. E. Miller. 2,614,808, Oct. 21.
Rock drilling tool. B. F. Shepherd. 2,614,812–13, Oct. 21.
Rod positioning frame. C. E. Peterson and E. C. Kastner. 2,614,779, Oct. 21.
Rod weeder for chisel plows. H. L. Mowbray. 2,614,475, Oct. 21.
Roof jack. S. W. Artis, Jr. 2,614,867, Oct. 21.
Roof truss structure. R. C. Gross. 2,614,512, Oct. 21.
Rotary bit. C. C. Goolsbee. 2,614,810, Oct. 21.
Rotary hydraulic torque converter transmission. J. Pavlecka. 2,614,391, Oct. 21.
Rotary screen comminuting device. C. H. Nordell. 2,614,695, Oct. 21.
Rotary wing device. G. Richard. 2,614,639, Oct. 21.
Rotatable electrical potentiometer connection. W. J. Opocensky. 2,615,070, Oct. 21.
Rotor blade support. M. D. Bulvid. 2,614,640, Oct. 21.
Rotor construction. E. F. Miller. 2,614,796, Oct. 21.
Rotor parachute. R. H. Prewitt. 2,614,636, Oct. 21.
Safety control system for electrically operated heating means. R. C. Main. 2,614,621, Oct. 21.
Safety disk wheel. L. Verderosa. 2,614,890, Oct. 21.
Salt shaker, Moistureproof. J. Pararra. 2,614,732, Oct. 21.
Sandal of paper or the like, Disposable. M. H. Abbott. 2,614,341, Oct. 21.
Sanding or rubbing attachment. S. D. Robins. 2,614,369, Oct. 21.
Sash holding bracket. M. Ketchum, Jr. 2,614,298, Oct. 21.
Scraper attachment for tractors. A. R. Lay. 2,614,345, Oct. 21.
Screened high-frequency circuit element. R. Keitley. 2,615,091, Oct. 21.
Screw and centrifugal pump. D. S. Baker. 2,614,501, Oct. 21.
Screw pump. G. L. Mullins. 2,614,499, Oct. 21.
Seat: *See*—
Flush tank repair seat.
Seat supporting structure. W. F. Ardussi. 2,614,608, Oct. 21.
Seed ceiling machine. R. W. Arengo-Jones. 2,614,593, Oct. 21.
Seed cleaner and separator. G. Slayter. 2,614,691, Oct. 21.
Selective sterilization of food products. J. J. Meehan. 2,614,938, Oct. 21.
Self-centering means for aircraft casterable landing wheel mountings. H. Shawbrook and E. F. Hillier. 2,614,777, Oct. 21.
Self-renewing valve. A. T. Murray. 2,614,791, Oct. 21.
Self-scoring test device. E. M. Clark. 2,614,338, Oct. 21.
Semiautomatic pivot polisher. J. E. R. Markert and J. D. Smith. 2,614,465, Oct. 21.
Separating C_5 diolefins. C. E. Morrell and L. M. Welch. 2,614,969, Oct. 21.
Separation of pear waste into its liquid and solid components. R. P. Graham, J. H. Thompson and A. D. Shepherd. 2,614,933, Oct. 21.
Separation of powdered catalyst from a stream of gaseous hydrocarbons. W. W. Holland. 2,614,659, Oct. 21.
Separator: *See*—
Horizontal oil and gas separator.
Setting fruit and composition therefor. R. A. Kaberg. 2,614,918, Oct. 21.
Setting nylon. G. A. Hayes and E. Schmidt. 2,615,116, Oct. 21.
Shade roller. H. Bleibtreu. 2,614,629, Oct. 21.
Shaker-dispenser. S. S. Slyk. 2,614,734, Oct. 21.
Sheet holder for mattress ensembles. W. W. Rosing. 2,614,270, Oct. 21.
Sheet package and skid therefor. R. O. Hammer. 2,614,688, Oct. 21.
Ship's steering wheel hub. J. F. Lubzinski. 2,614,439, Oct. 21.
Shoe upper lacing machine with eccentrically mounted needles. A. A. Rivington. 2,614,278, Oct. 21.
Shoe with sole having raised portions on its upper face. J. Hoza. 2,614,342, Oct. 21.
Short path fractionating stills. G. Burrows. 2,614,973, Oct. 21.
Shoulder pad for hangers, Removable. R. Sarti. 2,614,736, Oct. 21.
Signal assembly. A. Diebold. 2,615,084, Oct. 21.
Silica sols and preparation thereof from metallic silicon. J. H. Balthis. 2,614,995, Oct. 21.
Silica sols from finely divided silicon, Preparation of. J. H. Balthis. 2,614,994, Oct. 21.
Silica sols from silicon metal, Preparation of. V. I. Montenyohl and C. M. Olson. 2,614,993, Oct. 21.
Siloxanes produced by hydrolysis of halogen substituted silacyclohydrocarbons. J. M. Hersh. 2,615,033, Oct. 21.
Single-disk spot-type brake with one point adjustment. J. G. Hawley. 2,614,662, Oct. 21.
Single piston injection pump with fuel distributor for multicylinder combustion engines. W. Volt and U. Aldinger. 2,614,494, Oct. 21.
Sintering machine. W. Kelsey. 2,614,828–9, Oct. 21.
Ski binding. W. M. Pierce, Jr. 2,614,858, Oct. 21.
Ski pole handle. M. N. Harocopo. 2,614,859, Oct. 21.
Slat feed for automatic boxmaking machines, Side and bottom. G. E. Stillwell. 2,614,252, Oct. 21.
Slicing machine with knife-grinding means. A. van Duyn and J. van Hoorn. 2,614,373, Oct. 21.
Sliding bolt rack mechanism. A. S. Caswell. 2,615,101, Oct. 21.
Sliding window sash holder. H. Schwartzmann. 2,614,875, Oct. 21.
Sling for guns, Retractable. A. P. Rogers and D. McLaughlin. 2,614,355, Oct. 21.
Smoker's pipe. B. Batty. 2,614,568, Oct. 21.
Snap-acting bimetal thermostat. P. R. Lee. 2,615,108, Oct. 21.
Snap action device. J. Schmidinger. 2,615,106, Oct. 21.
Socket receptacle for electric light bulbs. C. E. Gilbert, M. D. Gilbert, N. Coates, and The Chase National Bank of the City of New York. 2,615,072, Oct. 21.
Sod cutter. A. F. Habenicht. 2,614,477, Oct. 21.
Sodium dimethyl dithiocarbamate and sodium salt of 2-mercaptobenzothiazole synergistic fungicidal composition. A. A. Somerville. 2,614,957, Oct. 21.
Sodium refining of petroleum oils. B. M. Vanderbilt. 2,614,966, Oct. 21.
Solenoid actuated valve. G. A. Goepfrich. 2,614,584, Oct. 21.
Solutions of polyamides. J. R. Caldwell. 2,614,999, Oct. 21.
Solvent extraction of hydrocarbons with fluorinated aliphatic carboxylic acids. F. N. Ruehlen. 2,614,965, Oct. 21.
Sorting apparatus. J. W. Whitson. 2,614,697, Oct. 21.
Sound indicator and fluid level indicator for wells. H. A. Mathews, M. B. Riordan, Jr., and L. B. Scott. 2,615,080, Oct. 21.
Space-heating means. M. Watter. 2,615,115, Oct. 21.
Spark plug. R. J. L. Dutterer, S. I. Johnson, and A. J. Hein. 2,614,548, Oct. 21.
Spinner seal and fairing. M. A. Beaupre. 2,614,638, Oct. 21.
Spinning reel. C. O. Dean. 2,614,767, Oct. 21.
Spinning top. W. F. Darden. 2,614,364, Oct. 21.
Spool and drive therefor. M. Camras. 2,614,761, Oct. 21.
Sprag type one-way clutch. A. Y. Dodge. 2,614,669, Oct. 21.
Sprag type overrunning clutch. R. M. Heintz. 2,614,670, Oct. 21.
Spray nozzle with pressure operated clean out. W. J. Roell and T. O. Berreau. 2,614,885, Oct. 21.
Spraying equipment, Portable. B. Essick. 2,614,884, Oct. 21.
Spring: *See*—
Vehicle spring.
Spring. W. F. Mitchell. 2,614,830, Oct. 21.

Spring-actuated shaft seal. T. R. Smith. 2,614,869, Oct. 21.
Spring cushion assembly. V. Asaro. 2,614,615, Oct. 21.
Spring cutter. W. A. Pendleton. 2,614,322, Oct. 21.
Spring link coupling for dog leads, baby harness or the like. H. Tomkins. 2,614,834, Oct. 21.
Spring lock for steel tape ribbon. R. C. Nicholson. 2,614,769, Oct. 21.
Spring suspension for vehicles. A. G. Schramm. 2,614,863, Oct. 21.
Spring tester, Multiple. R. E. Schafer and M. I. Kreider. 2,614,414, Oct. 21.
Sprocket fastening means. H. F. Heidegger and W. Borberg. 2,614,872, Oct. 21.
Stabilization of furfural with dimethylformamide. S. C. Samuels, Jr. 2,615,028, Oct. 21.
Stabilized lower fatty acid ester of cellulose. G. D. Hiatt and R. F. Williams. 2,614,941, Oct. 21.
Stabilized rubber adhesive. C. W. Bemmels. 2,615,059, Oct. 21.
Stabilizer for lift trucks. G. F. Quayle. 2,614,643, Oct. 21.
Stainless steel and method. H. Tanczyn. 2,614,921, Oct. 21.
Stand: *See*—
Packing stand.
Stand for telephones and lamps, Supporting. W. C. O'Brien. 2,615,098, Oct. 21.
Station identification for party lines. L. B. Mitchell. 2,615,094, Oct. 21.
Steady rest. B. Welte and O. J. Abbott, Jr. 2,614,371, Oct. 21.
Steam engine lubricants. J. I. Wasson. 2,614,991, Oct. 2.
Steam generator. G. M. Duckworth. 2,614,555, Oct. 21.
Steel nut and making. G. C. Riegel. 2,615,119, Oct. 21.
Steering linkage. M. H. Alldredge and M. P. Graham. 2,614,862, Oct. 21.
Steering mechanism. N. E. Wahlberg. 2,614,436, Oct. 21.
Steroid compounds. P. E. Mariatt, A. R. Hanze, A. V. McIntosh, Jr., and R. H. Levin. 2,615,017, Oct. 21.
Stitching machine. E. P. Crim. 2,614,253, Oct. 21.
Storage battery cap with gas recombining means. P. H. Craig. 2,615,062, Oct. 21.
Street sweeping machine. C. W. Mott. 2,614,279, Oct. 21.
Stretcher. O. P. Smith. 2,614,266, Oct. 21.
String instrument. F. Machálek. 2,614,449, Oct. 21.
Structural panel forming machine. C. C. Sachs. 2,614,949, Oct. 21.
Submarine drilling and pumping apparatus. W. Wiggins, Jr. 2,614,803, Oct. 21.
Substituted pyridines, Production of. J. E. Mahan. 2,615,022, Oct. 21.
Sulfonamides formed by amidation of chlorosulfonated polyethylene. H. W. Bradley. 2,615,000, Oct. 21.
Superheater baffling. W. S. Patterson and E. M. Powell. 2,614,544, Oct. 21.
Supervisory control system for filming television and other pictures. L. L. Gordon. 2,615,088, Oct. 21.
Support: *See*—
Adjustable dampening bearing support.
Bedding support.
Rotor blade support.
Vehicle body support.
Supporting and reinforcing structure for gas turbine engines. R. C. McLeod, G. B. R. Feilden, and J. Hodge. 2,614,386, Oct. 21.
Supporting structure for gas turbine power plants. G. B. R. Feilden. 2,614,385, Oct. 21.
Surficially calcined natural carbonate catalyst, Preparation of a. B. B. Corson and G. A. Webb. 2,614,996, Oct. 21.
Surgical apparatus for intestinal intubation. J. W. Devine, Jr. 2,614,563, Oct. 21.
Surveying instrument tripod head. W. J. Buff. 2,614,780, Oct. 21.
Switch: *See*—
Bin level switch.
Delayed electric mercury switch.
Hydraulic brake master cylinder reservoir float switch.
Level sensitive switch.
Pressure responsive switch.
Thermostatic switch.
Switch and signal control system for railroads. W. L. Livingston. 2,615,124, Oct. 21.
Switch mechanism for model railroads. H. B. Peabody. 2,615,125, Oct. 21.
Switching apparatus. K. W. Graybill and H. Sengebusch. 2,615,095, Oct. 21.
Synchro-cyclotron. E. M. McMillan. 2,615,129, Oct. 21.
Synchronizer clutch element. E. E. Eaton. 2,614,671, Oct. 1.
Synthesis gas, Manufacture of. J. H. Hirsch. 2,614,915, Oct. 21
Synthesis of folic acid intermediates. D. I. Weisblat and B. J. Magerlein. 2,615,040, Oct. 21.
Synthesis of organic compounds. L. C. Rubin, E. W. Riblett, and H. G. McGrath. 2,615,035, Oct. 21.
Tailstock. E. J. Lomazzo. 2,614,447, Oct. 2.
Tank and spray unit for cleansing. A. J. Turpin. 2,614,571, Oct. 21.
Tank tread and driving wheel mounting. C. J. Dumais. 2,614,642, Oct. 21.
Tare offsetting mechanism. N. E. Hart. 2,614,826, Oct. 21.
Tea packaging system. C. A. Trotman. 2,614,934, Oct. 21.
Telephone booth. P. H. Sherron. 2,614,664, Oct. 21.
Telephone system, Discriminating service. C. E. Lomax. 2,615,092, Oct. 21.
Telescoping door. R. Garcia. 2,614,626, Oct. 21.
Television system, Color. R. H. Rines. 2,615,087, Oct. 21.
Temperature controlled oil system. R. W. Jensen. 2,614,575, Oct. 21.
Temperature indicating device. A. E. Ballard, C. W. Zuehlke, and C. F. H. Allen. 2,614,430, Oct. 21.
Tension device. A. J. Ammerall. 2,614,773, Oct. 21.
Tensioning device for storm windows. W. M. Krantz. 2,614,297, Oct. 21.
Testing and locating faults in continuous conductors, Method and apparatus for. R. F. Miller. 2,615,076, Oct. 21.
Testing apparatus for the measurement of the internal physical properties of solids. A. Kepes. 2,614,415, Oct. 21.
Textile dressing materials. E. B. Thomas and H. F. Oxley. 2,614,984, Oct. 21.
Textile printing machine. L. Galan. 2,614,490, Oct. 21.
Thermionic cathode. R. Loosjes and A. J. v. Genuchten. 2,614,942, Oct. 21.
Thermometer, Mercurial minimum. J. M. Brady. 2,614,431, Oct. 21.
Thermoplastic compositions of improved impact strength and their production. R. F. Williams. 2,614,292, Oct. 21.
Thermostatic control device. M. J. Caparone. 2,614,754, Oct. 21.
Thermostatic switch. M. E. Macksoud. 2,615,146, Oct. 21.
Thread guide support in spinning machines. W. Hoffmann. 2,614,382, Oct. 21.
Thread supporting means for shuttles. W. E. Burcham. 2,614,587, Oct. 21.
Tilt mechanism for Venetian blinds. J. J. Di Ienno. 2,614,625, Oct. 21.
Timer for toasters and the like. A. J. Huck and C. D. Visos. 2,614,481, Oct. 21.
Timing mechanism for multiple grid cameras. W. C. Newcomb and C. F. Fitter, Jr. 2,614,468, Oct. 21.
Tire building drum, Pneumatic. R. Iredell. 2,614,951, Oct. 21.
Tire building machine. H. T. Kraft. 2,614,952, Oct. 21.
Tire for flat rimmed wheels, Auxiliary semipneumatic. W. R. Stewart. 2,614,602, Oct. 21.
Tire, wheel, and hubcap lock. R. O. Chandler. 2,614,889, Oct. 21.
Toasting or broiling rack. D. W. Scofield. 2,614,483, Oct. 21.
Tool: *See*—
Bushing inserting tool.
Combination nut running and setting tool.
Heat-sealing tool.
Machine tool.
Rock drilling tool.
Well fishing tool.
Tool for extracting bushings. J. L. McCord. 2,614,318, Oct. 21.
Top burner for gas ranges. J. E. Chambers. 2,614,620, Oct. 21.
Top cylinder lubricator. H. L. White. 2,614,550, Oct. 21.
Torque measuring device. S. C. Cockrell and F. F. Glasgow. 2,614,417, Oct. 21.
Torque wrench. E. H. Shaff. 2,614,418, Oct. 21.
Totalizer actuator control mechanism. J. Wallace. 2,614,749, Oct. 21.
Tourniquet, Automatic. J. K. Packer. 2,614,565, Oct. 21.
Toy and handle therefor, Ball and runway. M. P. Marong. 2,614,361, Oct. 21.
Toy, Exercising. C. J. Jugans. 2,614,505, Oct. 21.
Toy gun. T. M. Shelton. 2,614,551, Oct. 21.
Toy, Movable reflecting. H. L. Bowditch. 2,614,363, Oct. 21.
Traction device for vehicle wheels. J. Broh. 2,614,601, Oct. 21.
Tractor mounted shovel loader. E. A. Dingley. 2,614,712, Oct. 21.
Tractor steering mechanism. C. A. Gustafson. 2,614,644, Oct. 21.
Tractor with interchangeable power tool, Garden. P. E. Yacoby. 2,614,473, Oct. 21.
Traffic sign projection device. A. F. Weber. 2,614,457, Oct. 21.
Trailer hitch. P. E. Van Horn. 2,614,861, Oct. 21.
Transfer conveyer system for article wrapping machines. J. W. Smith. 2,614,683, Oct. 21.
Tray, Child's feeding. N. J. Mercer. 2,614,407, Oct. 21.
Tray holder for card tables. J. J. Jackson. 2,614,782, Oct. 21.
Tray, Ice. J. H. Roethel. 2,614,399, Oct. 21.
Treating grain fruit, especially bread grain. K. and W. Dienst. 2,614,935, Oct. 21.
Treating oil well streams, Method of and apparatus for. J. P. Walker and C. O. Glasgow. 2,614,649, Oct. 21.
Treatment of synthetic gasoline. H. W. Fleming and A. H. Friedman. 2,615,036, Oct. 21.
Tree mover. M. G. Coplen. 2,614,705, Oct. 21.
Trimethylchlorosilane, Preparation of. J. F. Hyde. 2,615,034, Oct. 21.
Trimming device. R. G. and C. T. Paquette. 2,615,111, Oct. 21.
Truck, Railway. C. L. Eksergian. 2,614,507, Oct. 21.

Tube: *See*—
Beam type electron tube. High-power vacuum tube.
Electronic tube.
Tube roller, Collapsible. A. H. Jung. 2,614,729, Oct. 21.
Tube seal. R. E. Goure. 2,614,398, Oct. 21.
Tube with movable electrode, Electron. G. Dion. 2,615,130, Oct. 21.
Tubular cloth casing. E. F. McTighe. 2,614,261, Oct. 21.
Tubular joint. W. H. Peach and R. D. Maim. 2,614,827, Oct. 21.
Turbine diaphragm. J. L. Ray. 2,614,870, Oct. 21.
Turntable control means for aerial ladders. E. J. Arps. 2,614,743, Oct. 21.
Twisting spindle balloon compensating device. H. C. Uhlig. 2,614,381, Oct. 21.
2,4-bis (methylsulfonyl)-benzeneazo - N - fluoroalkyl - N-hydroxyalkylaniline compounds. J. B. Dickey. 2,615,013, Oct. 21.
2,2'-methylenebis (4-chloro-6-aminophenol). H. E. Faith. 2,615,046, Oct. 21.
2,2'-methylenebis (4-chloro-6-nitrophenol) and its production. H. E. Faith. 2,615,052, Oct. 21.
Ultraviolet light absorbing film. H. B. Freyermuth and W. O. Ney. 2,614,940, Oct. 21.
Undercut former. R. M. James. 2,614,310, Oct. 21.
Underslip, Lady's. B. and J. Kramer. 2,614,257, Oct. 21.
Universal weigher and bagger. R. S. Grant. 2,614,787, Oct. 21.
Unloading valve. G. A. Cormier. 2,614,580, Oct. 21.
Upholstery unit. H. G. Morner. 2,614,272, Oct. 21.
Utility rack. L. A. Bell. 2,614,698, Oct. 21.
Vacuum pack machine. F. G. Pasotti. 2,614,739, Oct. 21.
Valve: *See*—
Arrester trap float valve. Pressure sealed relief valve.
Automatic float transfer valve. Quick-closing substantially balanced gate valve.
Compressor valve. Self-renewing valve.
Float operated valve. Solenoid actuated valve.
Mixing valve. Unloading valve.
Pilot relay valve.
Poultry drinking valve.
Valve. R. H. Mueller. 2,614,852, Oct. 21.
Valve and air charger, Combination. J. E. Piccardo. 2,614,498, Oct. 21.
Valve cap construction. R. E. Imhoff. 2,614,794, Oct. 21.
Valve grinder. L. W. Kelly. 2,614,372, Oct. 21.
Valve guide means. J. Trefil. 2,614,792, Oct. 21.
Vehicle: *See*—
Ambulatory commode vehicle. Insulated tank vehicle.
Vehicle. A. L. Mathisen. 2,614,857, Oct. 21.
Vehicle body support. L. D. Holmes, W. J. Haaksma, and R. S. Hammond. 2,614,504, Oct. 21.
Vehicle having superimposed noncollapsible occupant compartment, Self-propelled. H. A. Cook. 2,614,882, Oct. 21.
Vehicle spring. W. H. Godfrey. 2,614,832, Oct. 21.
Vehicle windshield visor. H. C. Riemann. 2,614,628, Oct. 21.
Velocipede, Animal simulating. F. B. Lolmaugh. 2,614,855, Oct. 21.
Vending machine, Merchandise. A. Obodzinski. 2,614,673, Oct. 21.
Venetian blind. W. J. Stuber and J. J. Di Ienno. 2,614,624, Oct. 21.
Venetian blind head bar organization. H. Nelson. 2,614,623, Oct. 21.
Venetian blind hold-down bracket. H. Nelson. 2,614,784, Oct. 21.
Ventilated shoe. M. D. Herceg. 2,614,339, Oct. 21.
Ventilation system for boarding machines. L. Macrow. 2,614,336, Oct. 21.
Ventilator, Window. E. A. Johnson. 2,614,479, Oct. 21.
Vessel raising apparatus. W. H. Carter. 2,614,518, Oct. 21.
Vinyl chloride preparation. H. S. Miller. 2,615,054, Oct. 21.
Vinyl esters of a stabilized rosin acid, Preparation of. J. C. Robinson, Jr. 2,615,011–12, Oct. 21.
Vinyl esters of chemically stabilized rosins and polymers thereof. J. C. Robinson, Jr., and W. S. Ropp. 2,614,997, Oct. 21.
Vinyl ethers. T. H. Insinger, Jr. 2,615,050, Oct. 21.
Viscosity compensating liquid control device. W. A. Biermann. 2,614,577, Oct. 21.
Voltage regulator. H. M. Ogle. 2,615,155, Oct. 21.
Vulcanizing apparatus. P. J. Mamola. 2,615,082, Oct. 21.
Walking cast shoe. R. F. Larkin. 2,614,340, Oct. 21.
Wall display fixture. D. L. Mapson. 2,614,701, Oct. 21.
Wallpaper trimming and pasting and measuring machine. J. Elda. 2,614,521, Oct. 21.
Washing machine provided with vibration dampener and mounting. J. B. Kirby. 2,614,410, Oct. 21.
Water-cooled lintel and skewback channel cooler. H. F. Nulph. 2,614,545, Oct. 21.
Wraterproof drain pad for children's cribs. G. A. Yancofski. 2,614,273, Oct. 21.
Water soluble alkoxyl substituted chalcone glycosides, Preparing. C. W. Wilson. 2,615,015, Oct. 21.
Waxy triglycerides. F. L. Jackson. 2,615,159, Oct. 21.
Weather-resistant concrete. P. J. Keating, Jr. 2,614,939, Oct. 21.
Weighing and packaging machine. L. D. Caron, Jr., and W. J. Hoenecke. 2,614,786, Oct. 21.
Well fishing tool. J. A. Holland. 2,614,881, Oct. 21.
Wheel: *See*—
Casterable airplane wheel. Safety disk wheel.
Wheel carried applying and removing antiskid device. S. W. Wheeler. 2,614,600, Oct. 21.
Window construction. C. Van der Pelen and L. Freudenberg. 2,614,296, Oct. 21.
Window frame. W. Floyd. 2,614,665, Oct. 21.
Windshield cover. S. Moszelt. 2,614,630, Oct. 21.
Wing nuts, Making. H. Moore. 2,614,274, Oct. 21.
Wire antiskid device. C. A. Sivon. 2,614,599, Oct. 21.
Wire holding and prestressing device. O. Mazzei. 2,614,801, Oct. 21.
Wire reeling apparatus. H. Böcher. 2,614,766, Oct. 21.
Wireless control of master clocks, Method and device for. V. Pfeffer. 2,614,383, Oct. 21.
Wrench: *See*—
Torque wrench.
Wrench for truck wheel nuts. J. C. Moore. 2,614,444, Oct. 21.
Wrench with tooth engaging abutment, Flywheel spanner. J. A. Riordan. 2,614,445, Oct. 21.
Zeroizing mechanism in calculating machines. H. Suter. 2,614,753, Oct. 21.
Zigzag magnetic labyrinth arc muffler. J. A. Favre. 2,615,109, Oct. 21.
Zinc mercaptobenzothiazole and ferric dimethyl dithiocarbamate fungicidal composition. A. A. Somerville. 2,614,958, Oct. 21.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 21, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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229— 27: 2,614,745
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230— 114: 2,614,747
233— 7: 2,614,748
235—60.31: 2,614,749
61.7: 2,614,750
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103: 2,614,752
144: 2,614,753
236— 48: 2,614,754
238— 10: 2,614,755
240— 1: 2,615,120
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6.44: 2,615,122
51.11: 2,615,123
241— 38: 2,614,756
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242— 39: 2,614,758
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33.57: 2,615,005
33.63: 2,615,132
33.65: 2,615,133
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260— 27: 2,614,997
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260— 570: 2,615,046
582: 2,615,047
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619: 2,615,052
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261— 26: 2,614,820
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263— 19: 2,614,823
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268— 58: 2,614,835
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271— 39: 2,614,837
272— 25: 2,614,838
273— 30: 2,614,839
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274— 2: 2,614,844
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33.15: 2,614,861
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282— 22: 2,614,865
284— 18: 2,614,866
285— 31: 2,614,867
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286— 5: 2,614,869
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286— 10: 2,614,870
287— 20.5: 2,614,871
52.08: 2,614,872
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288— 2: 2,614,874
292— 74: 2,614,875
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293— 66: 2,614,877
294— 25: 2,614,878
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53: 2,614,528
304— 29: 2,614,893
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48: 2,615,066
308— 2: 2,614,894
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35: 2,614,897
196: 2,614,898
309— 45: 2,614,899
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372: 2,615,153
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322— 28: 2,615,155
332— 5: 2,615,156
343— 6: 2,615,157
7: 2,615,158
346— 34: 2,614,900
75: 2,614,901
127: 2,614,902
139: 2,614,903

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,614,528: 302—53	2,614,711: 214—115	2,615,013: 260—207.5	2,615,066: 307—48	2,615,068: 310—87	2,615,106: 200—114
2,614,709: 286—10	2,614,944: 117—124	2,615,029: 260—412.5	2,615,067: 307—17		

Classification of Designs

D 3— 9: Des. 167,978
D 7— 4: Des. 167,980
D 9— 6: Des. 167,994
D10— 6: Des. 167,963
D14— 3: Des. 167,999
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6: Des. 167,967
D15— 8: Des. 168,001
D17— 6: Des. 167,979
D26—14: Des. 167,966
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8: Des. 167,986
20: Des. 167,998
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D44—10: Des. 167,974
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26: Des. 167,976
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D45— 4: Des. 167,990
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D47— 7: Des. 167,969
D48—27: Des. 168,009
D48—32: Des. 167,964
Des. 167,973
D52— 1: Des. 168,000
D54—12: Des. 167,970
D58— 4: Des. 167,965
12: Des. 167,977
17: Des. 167,991
D61— 1: Des. 167,997
Des. 168,004
D66— 1: Des. 167,968
D74— 1: Des. 167,989
D80— 9: Des. 167,985
Des. 168,007
D81—21: Des. 168,008
D83— 1: Des. 167,981
Des. 168,003
D86— 8: Des. 167,987
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D92— 1: Des. 167,996
4: Des. 167,982
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26: Des. 168,006

U. S. GOVERNMENT PRINTING OFFICE: 0——1952

Condition of Applications Under Examination at Close of Business October 3, 1952

Total number of patent applications awaiting action, 96,751. Date of oldest new application, January 4, 1952; date of oldest amended application, January 3, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	1-21-52	1-15-52	1546
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-20-52	2-1-52	1204
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	3-5-52	3-5-52	1666
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	1-14-52	1-12-52	1418
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-22-52	1-22-52	1116
6. SURLE, H., Carbon Chemistry (part)	2-13-52	2-9-52	2028
7. ANDERSON, E. G. (Acting), Optics; Photography (part)	2-1-52	1-30-52	1390
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	2-7-52	2-8-52	1335
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	1-11-52	1-11-52	1437
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacle; Bottles and Jars; Paper Receptacles.	1-24-52	1-25-52	1312
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	1-15-52	1-15-52	1186
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	1-16-52	1-5-52	1241
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	1-4-52	1-4-52	1185
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus.	1-19-52	1-18-52	1442
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	3-4-52	3-4-52	1436
16. LOVEWELL, N. N., Television, Telephony	1-25-52	1-29-52	1334
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	1-10-52	1-9-52	1331
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-10-52	1-12-52	803
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-14-52	1-11-52	1116
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	1-26-52	1-22-52	1347
21. MADER, R. C., Textiles	1-12-52	1-12-52	1300
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	1-14-52	1-17-52	1120
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	2-7-52	1-19-52	839
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	2-20-52	2-19-52	1372
25. McNAB, J. C., (Acting), Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	1-11-52	1-11-52	1414
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	2-1-52	1-30-52	1198
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	2-5-52	1-29-52	1401
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	1-14-52	1-14-52	1211
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	1-14-52	1-10-52	1231
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	2-16-52	2-14-52	1468
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-1-52	1-16-52	2282
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-proportioning Systems.	2-5-52	2-1-52	1272
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	1-22-52	1-15-52	1784
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	1-21-52	1-15-52	1082
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	1-30-52	1-24-52	1295
36. McFADYEN, A. D., Measuring and Testing	1-21-52	1-23-52	1097
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	2-1-52	2-6-52	1237
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	1-14-52	1-11-52	1572
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	2-20-52	2-21-52	1186
40. DRUMMOND, E. J., Receptacles (part); Packages	3-14-52	3-6-52	1209
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	1-25-52	1-19-52	881
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	2-2-52	2-4-52	1028

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 96,751. Date of oldest new application, January 4, 1952; date of oldest amended application, January 3, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. KNIGHT, W. G. (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	2-12-52	1-24-52	1458
44. HARVEY, L. P., Beds; Chairs; Seats	1-15-52	1-17-52	1125
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	2-8-52	2-4-52	1194
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	1-10-52	1-18-52	1114
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	1-9-52	1-8-52	1585
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	1-21-52	1-22-52	1655
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	1-10-52	1-8-52	1392
50. BENGEL, W. G., Synthetic Resins; Rubber	3-4-52	3-6-52	1532
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	2-7-52	2-5-52	1411
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	2-11-52	2-9-52	2015
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-30-52	1-28-52	934
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	1-12-52	1-8-52	1695
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-18-52	1-21-52	1008
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	1-18-52	1-18-52	1948
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	2-20-52	2-8-52	1554
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	2-7-52	1-19-52	1189
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	2-7-52	2-2-52	1086
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	2-28-52	2-7-52	915
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	1-17-52	1-14-52	1288
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	2-6-52	1-28-52	1180
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	1-12-52	1-3-52	1752
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	1-22-52	1-23-52	1740
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	1-29-52	1-30-52	1427
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-14-52	1-9-52	924
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	3-8-52	2-23-52	1195
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-23-52	2-16-52	1400
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	1-18-52	1-12-52	1208
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	1-4-52	1-6-52	3014
DESIGNS: A. BREHM, G. L., Industrial Arts	6-26-52	7-1-52	708
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	6-4-52	6-10-52	753

Total number of trade-mark applications awaiting action (including renewals and republications), 14,441. Date of oldest new application, April 16, 1952; date of oldest amended application, April 16, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	4-17-52	4-17-52	3316
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	4-16-52	4-16-52	3647
Renewals (All Classes)	7-8-52	8-4-52	652
Republications (All Classes)	7-9-52	9-12-52	307
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	4-16-52	4-16-52	3565
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-16-52	4-16-52	2954

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE LINDBERG

No. 5832. Decided February 18, 1952

[194 F.2d 732; 93 USPQ 23]

1. PATENTABILITY — INVENTION — MAKING DEVICE PORTABLE.

Held that it is not regarded as inventive to merely make an old device portable or movable without producing any new and unexpected result.

2. SAME—NEW COMBINATION OF OLD ELEMENTS—INVENVENTION NECESSARY.

Held that not all new combinations are patentable, because if a new combination of old elements is to be patentable, the elements must cooperate in such a manner as to produce a new, unobvious and unexpected result.

3. SAME — SUBSTITUTION OF EQUIVALENTS — HYDRAULIC FOR MECHANICAL DRIVE.

Since the test of equivalency is whether a substituted element operates in substantially the same way to produce substantially the same result as the element replaced, *Held* that the substitution of a known type of hydraulic drive system for the mechanical drive system of the reference patents constitutes the mere substitution of mechanical equivalents producing no new or unexpected result.

4. SAME—SAME—DISCLOSURE AS MODIFICATIONS INDICATIVE OF EQUIVALENCY.

Where the applicant discloses a mechanical agitator drive system as a modification of the claimed device which employs a hydraulic drive, *Held* that the Board of Appeals properly inferred from this alternative disclosure that the appellant himself must have regarded the mechanical and hydraulic drives as equivalents.

5. SAME—PARTICULAR SUBJECT MATTER—POWER SPRAYER.

Certain claims to a power sprayer *Held* properly rejected as not inventive over the cited prior art.

APPEAL from Patent Office. Serial No. 601,409.

AFFIRMED.

Myron J. Dikeman for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office. The Board's decision affirmed the holding of the Primary Examiner rejecting as unpatentable claims 3, 4, and 5, the only remaining claims in appellant's application for a patent on a "Power Sprayer."

Appellant's device comprises a power sprayer adapted to be mounted on farm machinery such as a cultivator or tractor for use in spraying crops. The device, as disclosed by appellant, includes a cylindrical liquid spray tank having a spray agitator rotatably mounted therein. Mounted on top of the tank are a small gasoline engine and a conventional type dual hydraulic pump unit, both pumps of the unit being driven together by the engine through a single belt and pulley system. The inlet of one of the pumps is connected to the spray tank and the outlet is connected by suitable pipe means to a spray nozzle of appropriate design. On the outlet side of this pump there are also a shut-off valve and a relief valve for controlling flow to the sprayer, and a by-pass arrangement whereby the spray liquid is returned to the tank when the shut-off valve is closed or excessive pressure is developed. On one end of the tank there are mounted a liquid oil tank and an oil-operated hydraulic driving unit which is operatively connected to the spray agitator mounted in the tank so as to rotate it when the driving unit is actuated. The inlet of the second pump of the dual pump unit is connected by suitable pipe means to the oil tank and its outlet is connected to the input side of the oil-operated agitator driving unit, with the outlet side of the driving unit being in turn connected to the oil tank to complete the hydraulic system.

The operation of the above-described device is as follows: When the engine is started both pumps of the dual pump unit are driven. The first pump causes the spray liquid to be pumped from the tank to the discharge spray nozzle if the shut-off valve is open; if that valve is closed, the spray liquid will pass back into the tank through the by-pass arrangement. At the same time, the second pump causes oil to circulate in a closed circuit from the oil tank through that pump and the hydraulically driven agitator drive unit and back to the oil tank, thus rotating the agitator in the spray tank in order to keep the spray mixture therein uniformly mixed.

Appellant also discloses a modification which has only a single pump unit for pumping the spray liquid from the tank. Instead of the above-described hydraulic drive system for rotating the agitator, this modification has a pulley mounted on the tank, said pulley being driven from the motor and being connected by means of a belt to another pulley mounted on the agitator shaft, whereby rotation of the motor produces rotation of the agitator.

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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request the Commissioner of Patents, Washington 25, D. C.

Claims 3 and 5, which are considered representative of the appealed claims, read as follows:

3. A power spraying device, and used with the farm machine vehicle, comprising a liquid spray tank, a liquid agitator rotatably mounted within said tank, said agitator being provided with a suitable hydraulic driving unit mounted on one end thereof, dual hydraulic pumps fixedly mounted on the liquid spray tank, rotating power means mounted on said tank, means for operatively connecting the power means with the dual pump units for operating same, a liquid oil tank fixedly mounted on said liquid spray tank, pipe means for operatively connecting one of the pump inlets with said liquid oil tank and opening therein, and pipe means for connecting the outlet of the same pump unit to the tank agitator driving unit inlet and returning therefrom to the said oil tank, pipe means for connecting the inlet of the other pump unit with the chamber of the liquid spray tank, and pipe means for connecting the discharge outlet of the same pump, a spray nozzle mounted on said discharge pipe.

5. A power spraying device, comprising a liquid spray tank, a liquid agitator rotatably mounted in said liquid spray tank, a hydraulic driving head mounted operatively on said agitator, a liquid oil tank mounted on said spray tank, dual hydraulic pump units mounted on said spray tank, power means mounted on said tank and operatively connected to said dual hydraulic pump units, means for connecting one hydraulic pump inlet with the spray tank reservoir, means for connecting the outlet of the same pump with a discharge pipe, a shut-off valve and relief valve mounted within the discharge pipe, and a spraying nozzle mounted on the end of said discharge pipe, means for connecting the other hydraulic pump inlet with the liquid oil tank, and means for connecting the same pump outlet with the inlet of the agitator driving head and return therefrom the oil tank reservoir.

The references relied on by the Patent Office are: Dyer, 639,541, Dec. 19, 1899; Thomson, 732,908, July 7, 1903; Thompson, 1,755,716, Apr. 22, 1930; Knapp, 1,759,988, May 27, 1930; Bateman et al., 1,883,479, Oct. 18, 1932; Brandt et al., 2,149,112, Feb. 28, 1939; Singleton, 2,357,141, Aug. 29, 1944.

The appealed claims were rejected in the Patent Office as being unpatentable over various combinations of references. Claims 3 to 5 were rejected as unpatentable over Bateman et al. in view of Dyer or Thomson; over Thompson in view of Dyer or Thomson taken with either Brandt et al. or Bateman et al.; and over Brandt et al. Claim 5 was further rejected as unpatentable over Brandt et al. in view of Knapp, and claims 3 to 5 were also further rejected as being drawn to an old combination.

The patent to Bateman et al. discloses a power sprayer comprising a spray tank having a gasoline motor and pump mounted thereon. The motor is operatively connected in driving relationship with the pump which is connected with the tank and spray nozzles by suitable piping so that operation of the motor causes the pump to transfer the liquid spray from the tank to the spray nozzles. Bateman et al. also discloses a rotating agitator member mounted in the spray tank, the agitator being driven by an endless chain connecting the agitator shaft with a rotating power take-off shaft protruding from the pump housing. The tank is in turn mounted on a wheeled chassis so that it may be drawn by a tractor or other suitable vehicle by means of a wagon-tongue attached to the chassis.

The patent to Brandt et al. shows a power sprayer device comprising a liquid spray tank mounted on a wheeled chassis with a pushcart-type handle connected to the chassis for moving the device. Mounted on the tank are a gasoline motor and a pump, the pump being connected to the motor in driving relationship by a belt and pulley arrangement. The pump is connected with the tank and a spray nozzle by suitable piping means so that when the motor operates the pump causes the spray liquid to be transferred from tank to nozzle. There is an agitator member rotatably mounted in the tank, the agitator being driven by a cam on the pump-driving pulley which engages a gear on the agitator shaft.

The patent to Knapp discloses a power spray device having gasoline motor, pump, spray tank, and spray nozzles connected so that operation of the motor causes the spray liquid to be ejected from the spray nozzle. However, these elements are mounted on a wheeled platform rather than on the tank as in the devices of appellant, Bateman et al., and Brandt et al. Knapp teaches the use of a shut-off valve and a relief valve between the outlet side of the pump and the spray nozzle whereby spray liquid is returned to the tank if the shut-off valve is closed or excessive pressure is developed.

The patents to Dyer and Thomson disclose hydraulic driving systems for automobiles comprising an oil tank, a pump driven by a prime mover, and a hydraulic wheel driving unit, all connected by suitable piping means so that operation of the pump by the prime mover causes the wheel driving unit to operate. The hydraulic driving systems of these references are very similar to the hydraulic agitator driving system of appellant's claimed sprayer device.

For reasons to appear hereinafter, we deem it unnecessary to discuss the Thompson and Singleton references and the rejections based thereon.

The Examiner, in rejecting claims 3 to 5, relied on Bateman et al. and Brandt et al. as each showing a power spray device having substantially the same elements (namely, motor, tank, pump, spray nozzles, pipe connecting means, and tank agitator with driving means) in substantially the same structural relationship and operating in essentially the same manner as in appellant's device. In his rejection of claims 3 to 5 as unpatentable over Bateman et al. in view of Dyer or Thomson, the Examiner held that appellant's hydraulic agitator drive system was merely the mechanical equivalent of Bateman et al.'s chain and pulley type agitator drive system, and that no invention was involved in substituting the similar hydraulic driving system of Thomson or Dyer for the mechanical agitator drive of Bateman et al. In rejecting claims 3 to 5 as unpatentable over Brandt et al., the Examiner stated that:

> • • • the mechanical agitator drive means of Brandt et al. is the full equivalent of the oil tank, pump and fluid motor of appellant's device. No advantage is seen to be derived from the use of the more complicated fluid system, and thus it is considered that no inventive advance has been obtained.

In further rejecting claim 5 as unpatentable over Brandt et al. in view of Knapp, the Examiner was of the opinion that use of a shut-off valve and relief valve between pump and spray nozzle of the Brandt et al. device, in the manner taught in the similar power sprayer of Knapp, "would be obvious to one skilled in the art."

The Board agreed with the above-discussed holdings of the Examiner and accordingly sustained the rejections. The Board noted that, in view of appellant's disclosed modification wherein he shows the use of a mechanical drive similar to that shown by Bateman et al., appellant must also regard the mechanical agitator drive as the equivalent of the hydraulic agitator drive system recited in the appealed claims. The Board also stated that:

> • • • All that the claims define, as we understand them, is a selection of desirable features from prior art structures (admitted by appellant) united in a single apparatus in just the way they had been used before whereby there is obtained from them merely the aggregate results that were secured in the prior art structures. Such a combination is not considered as involving invention. • • •

Appellant in his brief urges, as a patentable difference over the cited art, that his sprayer is complete in itself as a single unit, that it operates under its own power, and that it is transferable to any unit or place. Assuming that it might be inventive over the cited art to make the spray device a single portable unit, this argument by appellant has no merit in the instant case because this allegedly inventive feature is not recited in the appealed claims. The particular feature or fact upon which an applicant predicates patentability must not only be disclosed in the specification but also brought out or recited in the claims. *In re Richards*, 38 CCPA (Patents) 930, 187 F.2d 643, 89 USPQ 64, 646 O. G. 1406, and cases cited therein. The recitation "and used with the farm maching [machine (?)] vehicle," in claim 1, being directly readable on each of Bateman et al., Knapp, and Thompson, it does not appear that any of the appealed claims includes recitation of any matter which appellant may rely on as bringing out this allegedly novel feature urged upon the court as a patentable difference over the cited art. [1] Moreover, even if this feature were properly recited in the appealed claims, as pointed out by the Solicitor of the Patent Office in his brief, this in itself would not render the claims patentable since it is not regarded as inventive to merely make an old device portable or movable without producing any new and unexpected result. See *Ranco, Inc.* v. *Gwynn et al.*, 128 F.2d 437.

The contention discussed above is auxiliary to appellant's basic contentions. Appellant's basic contentions are that "'parts' from old patents cannot be selected as anticipation of new combinations again using them"; that each inventor is entitled to his own machine, and improvement, so long as it differs from prior art devices; and that if a new structural combination is new and useful it meets the legal requirements for "invention."

It is well settled that claims may be properly rejected on a combination of several patents taking specific features from each. *In re Kamlet*, 38 CCPA (Patents) 775, 185 F.2d 709, 88 USPQ 106, 644 O. G. 5; *In re Smith*, 34 CCPA (Patents) 1007, 161 F.2d 274, 73 USPQ 394, 603 O. G. 184. It is not necessary that a complete disclosure be contained in a single reference. *In re Streckert et al.*, 35 CCPA (Patents) 1148, 167 F.2d 1010, 77 USPQ 592, 613 O. G. 1685; *In re Horney*, 34 CCPA (Patents) 968, 161 F.2d 271, 73 USPQ 293, 603 O. G. 181.

[2] That a new combination of old elements may be patentable is well established. But not all new combinations are patentable. If a new combination of old elements is to be patentable, the elements must cooperate in such a manner as to produce a new, unobvious, and unexpected result. Such a combination, to be patentable, must amount to an invention. In the absence of invention, utility and novelty are not sufficient to support allowance of claims for a patent. *In re Kaufmann*, 39 CCPA (Patents) —, 193 F.2d 331, 92 USPQ 141, 656 O. G. 279.

In view of the above, it appears to us that the essential question in this case is whether or not appellant exercised inventive faculty sufficient to support the allowance of claims for a patent in producing the claimed spray device by use of old and known elements. [3] With the exception of claim 5, which also recites shut-off and relief valves, the feature upon which appellant seeks to predicate patentability of the appealed claims is the substitution of a known type of hydraulic drive system for the mechanical agitator drive system of the primary reference patents to Bateman et al. and Brandt et al. The Examiner and the Board considered this change to be a mere substitution of mechanical equivalents producing no new or unexpected result, and hence they were of the opinion that such substitution did not involve invention. A test of equivalency is whether a substituted element operates in substantially the same way to produce substantially the same result as the element replaced. *In re Husted*, 17 CCPA (Patents) 1002, 39 F.2d 713, 5 USPQ 397, 398 O. G. 3. [4] Applying this test, we are in agreement with this holding of the Patent Office tribunals. We think it significant that, as noted by the Board, appellant discloses a modification of the claimed spray device wherein he shows a mechanical belt and pulley agitator drive system similar to that shown by Bateman et al. Where an applicant's own specification indicates an equivalency between two different things, one of which is shown in the prior art, the applicant is not in a favorable position to argue that invention lies in the use of the other, although there might, perhaps, be some exceptions in unusual circumstances. See *In re Yount*, 36 CCPA (Patents) 775, 171 F.2d 317, 80 USPQ 141, 619 O. G. 5, and *In re Withington*, 26 CCPA (Patents) 1290, 104 F.2d 192, 41 USPQ 742. We concur with the Board's inference from this alternative disclosure that the appellant himself must have regarded the mechanical and hydraulic drives as equivalents. As to claim 5, which also recites the shut-off and relief valves, we agree with the Board and the Examiner that no invention was involved in the use of these features as is clearly taught in the Knapp reference, which discloses a very similar device.

In the light of the foregoing, we agree with the Board of Appeals that appellant has not displayed the exercise of invention in producing his allegedly new combination. The old and known elements used by appellant do not perform any new or un-

expected function in his device; the results obtained from his allegedly new combination do not impress this court as being unobvious or unexpected.

We are therefore of the opinion that the Board did not err in holding the appealed claims unpatentable on the grounds of rejection discussed above. Having reached this conclusion, we deem it unnecessary to discuss the merits of the rejection on old combination and the rejection on Thompson in view of Dyer or Thomson taken with either Brandt et al. or Bateman et al.

[5] For the reasons hereinbefore set out, the decision of the Board of Appeals is affirmed.

AFFIRMED.

NOTICES

Erratum

All references to Patent No. 2,613,035 to James E. Lawver, assignor to International Minerals & Chemical Corporation, for Beneficiation of Nonmetallic Minerals, appearing in the OFFICIAL GAZETTE of October 7, 1952, should be deleted as the application was withdrawn from issue and the patent was not issued.

Adjudicated Patents

(D. C. Mich.) Breeden Patent No. 2,206,762, for holders for caskets or the like, *Held* invalid. *Breeden* v. *Attwood Brass Works*, 105 F. Supp. 876; 94 USPQ 29.

(D. C. N. J.) Boone Patent No. 2,354,184, for process for refining vegetable oils. Claims 1, 4, 9, 10 *Held* invalid and not infringed. *Boone* v. *Corn Products Refining Co.*, 105 F. Supp. 865; 94 USPQ 2.

Cancellation Notice

Eldo H. Ewald, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Vitalic Battery Company, Inc., 2040 Amelia Street, Dallas, Texas, to effect the cancellation of trademark registration of Eldo H. Ewald (Allied Dealers Company, assignee, substituted, Mason City, Iowa), No. 320,045, dated December 18, 1934, and the notice of such proceeding sent by registered mail to the said Allied Dealers Company, at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless said Allied Dealers Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order, the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Oct. 7, 1952.)

THOMAS F. MURPHY,
Sept. 15, 1952. *Assistant Commissioner of Patents.*

Classification Order No. 135

The following transfer is hereby directed to take effect on Monday, October 6, 1952:

Class 92, Paper Making and Fiber Liberation, from Division 56 to Division 67.

M. C. ROSA,
Oct. 1, 1952. *Executive Examiner.*

Classification Order No. 136

The following transfer is hereby ordered to take effect on Friday, October 10, 1952:

Class 137, Fluid Handling—Subclasses 1–81; 123–385; 455–776; 797–802
From C. E. D. to Division 39.

M. C. ROSA,
Oct. 1, 1952. *Executive Examiner.*

Disclaimers

2,131,675.—*Robert E. Schieber*, Detroit, Mich. TABLE STRUCTURE. Patent dated Sept. 27, 1938. Disclaimer filed Sept. 23, 1952, by the assignee, *Schieber Manufacturing Company.*

Hereby enters this disclaimer to claims 1, 2, 4, and 5 of said patent.

2,203,394.—*Robert E. Schieber*, Detroit, Mich. FOLDING BENCH AND TABLE CONSTRUCTION. Patent dated June 4, 1940. Disclaimer filed Sept. 23, 1952, by the assignee, *Schieber Manufacturing Company.*

Hereby enters this disclaimer to claims 1 and 4 of said patent.

2,259,962.—*Herbert L. Owen*, Los Angeles, Calif. SHINGLE. Patent dated Oct. 21, 1941. Disclaimer filed Oct. 6, 1952, by the assignee, *Shingle Products Patents Inc.*

Hereby enters this disclaimer to claims 1 to 5, inclusive, of said patent.

2,442,770.—*David E. Kenyon*, Smithtown, N. Y. PULSE GENERATOR. Patent dated June 8, 1948. Disclaimer filed Sept. 30, 1952, by the assignee, *The Sperry Corporation.*

Hereby enters this disclaimer to claim 5 of said patent.

2,518,389.—*Michael S. Siculak*, Chicago, Ill. SIDE-DELIVERY RAKE. Patent dated Aug. 8, 1950. Disclaimer filed Sept. 27, 1952, by the assignee, *International Harvester Company.*

Hereby enters this disclaimer to claims 1 and 3 of said patent.

2,598,109.—*Anthony R. Chasar*, Cleveland, Ohio. NIPPLE CHUCK. Patent dated May 27, 1952. Disclaimer filed Sept. 16, 1952, by the assignee, *The Oster Manufacturing Company.*

Hereby enters this disclaimer to claim 1 of said patent.

2,607,200.—*Malcolm G. Shoemaker*, Doylestown, Pa. AIR CONDITIONING SYSTEM. Patent dated Aug. 19, 1952. Disclaimer filed Sept. 27, 1952, by the assignee, *Philco Corporation.*

Hereby enters this disclaimer to claims 1, 4, and 5 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,589,333. Toy Hoisting Truck. Patented Mar. 18, 1952. Toy hoisting vehicle, comprising a coupled truck cab and trailer, is equipped so that a hand lever and two hand cranks may be manipulated to scoop up material and dump it into the trailer. Hoisting mechanism mounted on the trailer includes a pivoted crane, a jib lift on the crane, and a boom on the lift having a shovel secured to its lower end. A slide is mounted in the bottom of the trailer and connected to the hand lever. The shovel may be loaded by pushing it rearwardly with the slide. By operation of the cranks the loaded shovel may be raised and positioned on a bracket on the crane, and the boom then lowered to permit shovel to tilt and dump contents into trailer. (Owner) Orville R. Brown, 28 Kentucky Ave., Danville, Ill. Group 39—41. Reg. No. 49,517.

Pat. 2,561,631. Automatic Glass Washing and Sterilizing Machine. Patented July 24, 1951. Closing the cover of this machine actuates a switch to set timing mechanism into operation to spray hot water on the glassware, then sterilizing solution, and then hot water for rinsing, a material amount of time elapsing between operations to permit drainage. If operation of the machine is interrupted by raising the cover, the timing mechanism is automatically restored to its initial position. The sterilizing solution from a reservoir is sprayed on the glassware and then drains back into the reservoir through a swingable spout. The spout swings to another position before water is sprayed on the glassware to permit the water to drain into sewer. A pointer on a dial may be set so that, after the sterilizing solution has been used a pre-selected number of times, the reservoir is emptied, flushed, and refilled with water, and a signal is actuated to indicate to attendant that sterilizing chemicals should be added to the reservoir. After adding the chemicals, attendant must press a button switch to ready the machine to continue operation. (Owner) John A. Negri, 900 Chautauqua Blvd., Pacific Palisades, Calif. Group 35—89. Reg. No. 49,518.

Pat. 2,591,027. Lip Rouge Applicator. Patented Apr. 1, 1952. Applicator contains a slidable bullet-shaped lipstick, and a brush in the form of a roll tipped with a rubber or bristle brush mounted for sliding movement through a longitudinally extending bore in the lipstick. The lipstick may be projected out of the applicator, and the end of the brush projected out of the end of the lipstick, so that the brush, which picks up rouge as it is moved through the lipstick, may be used to stain a sharp outline on the lips. After the outline is completed, the brush is retracted and the lipstick used to fill in the outline. When the lipstick is retracted, a cylindrical cover is placed over the applicator. (Owner) Angel Nunez Turnes, 995 Aldus St., Bronx 59, N. Y. Groups 34—51—99; 39—81; 40. Reg. No. 49,519.

Pat. 2,578,808. Potato Cleaning and Separating Device. Patented Dec. 18, 1951. A wooden framework supports a drive shaft operating a series of conveyors and also holds a semicylindrical metal tank divided into a brine chamber and a water chamber. A hopper mounted over the brine chamber receives potatoes which pass downwardly through an inclined chute into the brine, where the potatoes float to the surface and the debris sinks to the bottom. A transverse conveyor continuously removes the debris from the tank, and an inclined conveyor collects and conveys the potatoes to a ramp in the water chamber, where as the potatoes sink the ramp guides them onto another inclined conveyor which carries them out of the chamber for deposit in a suitable container. Any debris carried into the water chamber is continuously skimmed off and carried away by a transverse conveyor. (Owners) William J. Johnson and L. H. Buckner, Box 46, Darwin, Calif. Groups 34—95; 35—22—62. Reg. No. 49,520.

Pat. 2,587,386. Corn Planter. Patented Feb. 26, 1952. This invention relates to a corn planter whereby the corn hills are checked, without the use of a wire, so that the corn can be cultivated by passing through the rows in any direction. One of the rear wheels of the planter carries a driving gear for driving a transverse crankshaft, which operates the planting mechanism. The ends of the crankshaft are journaled in slides, one of which carries a driven gear meshing with a pinion on the crankshaft. Cylindrical shoes having normally closed pointed lower ends to enter the ground are yieldably coupled to the crankshaft and slidably mounted in depending substantially vertical sleeves. The slides may be moved by a hand lever to shift the driven gear into and out of engagement with the driving gear, the driven gear being automatically returned to a definite starting position whenever it is disengaged. Levers of timing mechanism are tripped by the crankshaft to open valves in the lower ends of the shoes, just as the shoes are leaving the ground, to deposit the seed. (Owner) Ralph W. Rounds, 820 North 7th St., Rawlins, Wyo. Group 35—22. Reg. No. 49,521.

Pat. 2,568,304. Child Restrainer. Patented Sept. 18, 1951. Harness for restraining a child has a pair of fabric-covered spring-metal straps, permanently curved in U-shape to partially encircle child's chest, and fastened together at the back by a rivet. A similar pair of straps partially encircle the waist, with upwardly extending arms at the back fastened to the same rivet. The front ends of the encircling straps are spaced apart so that they may be sprung open for placing harness on child. Shoulder straps are fastened to front of chest-encircling straps and to the rivet. A leash is received by a swivel hook on the rivet. Harness may be incorporated in a coat if desired. (Owner) Nathan Schoenbrun, 424 South Washington Ave., Scranton 5, Pa. Groups 23—62—69; 31—99; 33—73; 40. Reg. No. 49,522.

United States Government Owned Patents

The following U. S. Letters Patent owned by the United States Atomic Energy Commission have been made available for licensing by the Commission. Licenses will be granted to applicants on a non-exclusive, royalty-free basis. Applicants for licenses should apply to the Chief, Patent Branch, Office of the General Counsel, U. S. Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number and title.

Pat. 2,601,583. Radiation Measuring Instrument. Patented June 24, 1952. Improved portable radiation instrument which is capable of holding its calibration to about 10% for prolonged periods of time under varying atmospheric conditions. In addition to other features, the instrument is characterized by means for automatically space charge limiting the tube to prevent destabilization and damage to the cathode during its warm-up period. Group 36—13. Reg. No. 49,523.

Pat. 2,601,637. Pocket Ionization Chamber. Patented June 24, 1952. Improved hermetically sealed pocket ionization chamber adapted to have low leakage and to be readily charged as well as to be easily read. The chamber is characterized in part by having in combination a substantially tubular hermetically sealed electrically insulating casing, a tubular outer conducting electrode disposed within and coaxial with said casing, a cylindrical contact element mounted on and coaxial with the exterior surface of the casing, a rod-like inner conducting electrode within and axial of said casing, and pressure type means for making electric contact between each of said electrodes and the exterior of said casing employing a flexible insulating diaphragm, and a gaseous ionizing medium within said casing. Group 36—13. Reg. No. 49,524.

Pat. 2,602,047. Method of Concentrating Isotopic Carbon. Patented July 1, 1952. Process of enriching carbon dioxide with respect to the heavy isotopes of carbon contained therein comprising contacting said carbon dioxide while present to the extent of 0.5 to 10 volume percent in admixture with an inert gas with chlorophyllic plant life in a closed system, and subsequently separating carbon dioxide enriched in the heavy isotope from the inert gas mixture. Group 28—86. Reg. No. 49,525.

Pat. 2,602,632. High-Speed Bearing and Turbine. Patented July 8, 1952. Improvements in a high speed rotary air-bearing short hollow shaft turbine the rotor of which is both supported and driven by air. The stator has an internal cylindrical surface with outwardly flaring end surfaces while the rotor is slightly smaller in diameter than the stator cylinder and has short, outwardly flaring end abutments. Group 35—11. Reg. No. 49,526.

Pat. 2,602,725. Method of Producing Zirconium Tetrafluoride. Patented July 8, 1952. Process for the production of zirconium tetrafluoride comprising reacting a zirconium chloride with gaseous hydrogen fluoride at a temperature of about 50° C. until at least 90% conversion to zirconium tetrafluoride has been effected and then continuing the reaction at 300° C. until conversion is substantially complete, thereby obtaining a practically non-hydrolyzable zirconium tetrafluoride. Group 28—89. Reg. No. 49,527.

Pat. 2,602,871. Nickel Welding. Patented July 8, 1952. Process which comprises arc welding nickel and nickel-base alloys, using a shield gas mixture containing from 5–15% by volume of hydrogen and from 95–85% by volume of argon. Group 36—19. Reg. No. 49,528.

Pat. 2,602,898. Ion Intensity Control Mechanism for Mass Spectrometers. Patented July 8, 1952. Improved control system for an ion source comprising a mass spectrometer having an ion source and a collector, an inlet for feeding vapors to said source, and means responsive to the flow of ion current to the collector of said spectrometer for regulating vapor flow to the source. Group 36—19. Reg. No. 49,529.

Pat. 2,602,904. Radiation Device and Method of Construction. Patented July 8, 1952. Radiation counter of the Geiger-Muller type adapted to measure the total activity of a radioactive sample, including soft radiations, such as low energy beta rays. The counter is further characterized by being responsive to radiations emanating through substantially a complete solid angle. Group 36—13. Reg. No. 49,530.

Pat. 2,604,514. Ionization Gauge Regulation. Patented July 22, 1952. Improved circuit for regulating the electron emission of a filament in a vacuum gauge to maintain constant the rate of ionization of a gas under varying conditions of pressure. Group 36—13. Reg. No. 49,531.

Pat. 2,604,598. Ionization Chamber for Neutron Flux Measurements. Patented July 22, 1952. Improved radiation detector of the ionization chamber type having a high degree of sensitivity. The ionization chamber is particularly suitable for measuring neutron flux by employing materials which have a minimum neutron induced radioactivity and having electrodes with neutron sensitive coatings thereon. Group 36—13. Reg. No. 49,532.

Pat. 2,604,612. Control Circuit. Patented July 22, 1952. Improved full wave alternating current controlled circuit for controlling the power supplied to a load. The circuit is particularly useful or applicable for controlling the speed of A. C. motors. The circuit employs a pair of electric discharge tubes in "back to back" relation, which are controlled by the application of a control signal to one of the tubes. Group 36—19. Reg. No. 49,533.

Pat. 2,605,219. Preparation of Radioactive Bromine. Patented July 29, 1952. Method for the preparation of radioactive bromine. A non-volatile bromide salt which has been neutron irradiated to produce radioactive bromine is mixed with an anhydrous relatively volatile metal bromide which is capable of ionizing in the molten state. The mixture is heated to a temperature sufficient to vaporize a portion of the volatile salt and the vapor of this salt is then brought into contact with natural bromine gas. Thereafter the bromine gas is separated from the vapor of the volatile bromide. The separated bromine gas contains the radioactive bromine as the result of a double exchange process. Group 28—89. Reg. No. 49,534.

Pat. 2,605,332. Electronic Analyzer. Patented July 29, 1952. Improved system for electrically classifying, cataloging, and accounting of the magnitude distribution of a series of events. This is accomplished by converting the events into proportional voltage pulses, translating the pulses into linear positions of the beam of a cathode ray tube, and recording the beam positions with a photographic film or plate to reproduce the displacement distribution. Group 36—13—62. Reg. No. 49,535.

Pat. 2,605,429. Portable Radiation Survey Instrument. Patented July 29, 1952. Improvement in circuitry for a portable radiation survey instrument which accomplishes a reduction in the response time of the device. This is accomplished by use of positive feedback developed in the input circuit of the amplifier, but exterior to the ionization chamber circuit. Group 36—13. Reg. No. 49,536.

Pat. 2,605,449. Pulse Generator. Patented July 29, 1952. New and improved pulse generating circuit. This improved circuit produces pulses of variable duration, controllable by a single variable element over a substantially large range by providing a pair of gaseous discharge tubes controlled to discharge a section of artificial transmission line and adapted to provide a pulse of variable duration in response to an input pulse. Group 36—19. Reg. No. 49,537.

Pat. 2,605,633. Insulator Testing Apparatus. Patented Aug. 5, 1952. Improved apparatus for mechanically testing the solder joint between a porcelain bushing and the disk-shaped metal end plate of an insulator. The apparatus employs an audio oscillator, a saw-tooth oscillator connected thereto, the output signal thereof being frequency modulated and assorted circuitry in order to obtain a trace of the resonant curve of the insulator under test. Group 36—13. Reg. No. 49,538.

Pat. 2,606,291. Method and Apparatus for Material Separation. Patented Aug. 5, 1952. Improved linear type of material separator for separating large quantities of mixed isotopes in relatively short periods of time. The apparatus comprises in part means for modulating charged particle beams to effect separation of the components thereof and other means for analyzing the velocity modulated charged particle beams to effect collection of the separated components. Group 36—19. Reg. No. 49,539.

Pat. 2,606,296. Radiation Counter. Patented Aug. 5, 1952. Improvements in the design and construction of Geiger-Muller counters and proportional counters which make it possible to operate such counters with accuracy and reliability at potentials in the range of 125 to 300 volts. Group 36—13. Reg. No. 49,540.

Pat. 2,606,573. Adjustable Venturi Assembly. Patented Aug. 12, 1952. New and improved flow control indicator assembly useful under widely variable fluid flow conditions. The apparatus comprises in part an adjustable Venturi tube in combination with a universal flow indicator. Group 35—65. Reg. No. 49,541.

Pat. 2,607,809. Dry Cell Assembly. Patented Aug. 19, 1952. Improved filler composition for voltaic cells which increases the voltage stability and recoverability of the cell. The improved filler comprises in part the acid form of a base exchange resin admixed with saturated ammonium chloride solution so as to form a paste, which is maintained in electric contact with the single metal electrode in the dry cell. Group 36—91. Reg. No. 49,542.

Pat. 2,608,530. Electrodeposition of Metal Salts. Patented Aug. 26, 1952. Process for quantitatively electrodepositing uranium fluoride from a dilute aqueous solution of uranyl nitrate containing dissolved sodium fluoride, the concentration thereof being in the range of 25 to 300 times the concentration of the uranyl nitrate. Group 28—88. Reg. No. 49,543.

Pat. 2,608,593. Fluorination Process. Patented Aug. 26, 1952. Method for the perfluorination of a hydrocarbon which is accomplished without scission of the carbon structure of the hydrocarbon. The vaporized hydrocarbon is passed over solid cerium tetrafluoride in a reaction zone at a temperature between about 100° to about 450° C. and above the boiling point of the starting hydrocarbon, and subsequently separating from the reaction product a perfluorinated organic compound having the carbon structure of the starting hydrocarbon. Group 28—89. Reg. No. 49,544.

Pat. 2,608,661. Means for Measuring Radiation. Patented Aug. 26, 1952. New and improved neutron density indicating means comprising a pair of blocking layer type photocells connected in series opposition relationship, means which become luminescent when subjected to neutron irradiation positioned to activate one only of said photocells, and electrical indicating means associated therewith. Group 36—13. Reg. No. 49,545.

Pat. 2,608,855. Method and Apparatus for Measuring Tightness of Vessels. Patented Sept. 2, 1952. Method and apparatus for readily and accurately measuring the tightness or rate of inleakage of a closed vessel. This is accomplished by surrounding the vessel under test with helium maintained at a substantially constant concentration, maintaining a substantially constant degree of suction on the interior of said vessel through a conduit, establishing an orifice of known size between the helium and the interior of the suction conduit, taking measurements of the helium concentration in the conduit first with the said orifice closed and second with the said orifice open, and comparing said measurements to determine the rate of inleakage. Group 35—65. Reg. No. 49,546.

Pat. 2,609,500. Injector Mechanism. Patented Sept. 2, 1952. New and Improved injector mechanism for particle accelerators which does not interfere with particle acceleration by employing an electrostatic field which guides accelerated particles past the injector. Group 36—19. Reg. No. 49,547.

Pat. 2,610,300. Flow Control. Patented Sept. 9, 1952. Improved means for automatically controlling the vapor flow to a mass spectrometer, comprising in part means responsive to changes in vapor content in the spectrometer chamber for altering the balance in a bridge network to produce signals which, by associated means, operate a valve. Group 36—13—19. Reg. No. 49,548.

TRADE-MARKS

[VOL. 663. No. 3]

OFFICIAL GAZETTE, OCTOBER 21, 1952

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 39

CLOTHING

Ser. No. 525,641. Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Filed July 2, 1947. Under 10-year proviso as to "Merrimac."



Applicant owns Registrations Nos. 346,919, 358,760, and 421,014. The term "Andover" is disclaimed.

For Women's Hats and Hat Bodies.

Claims use since Apr. 15, 1936, as to the complete mark as shown; and since 1856 as to the word "Merrimac."

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 625,874. The Wickes Corporation, Saginaw, Mich. Filed Mar. 3, 1952.

VOLMEX

Applicant claims ownership of Registrations Nos. 54,647, 59,505, and others.

For Prepared Graphite in Powdered Form for Admixture With Water To Provide a Spray or Wash for Ingot Molds and Stools, To Facilitate Molding Operations.

Claims use since Oct. 5, 1951.

CLASS 2

RECEPTACLES

Ser. No. 527,883. The Creamery Package Mfg. Company, Chicago, Ill. Filed July 5, 1947.

Creamery Package

The word "Creamery" is disclaimed.

For Dairy Products Processing Equipment Made of Metal—Namely, Cans and Covers, and Pails.

Claims use since 1922.

Ser. No. 540,496. Union Steel Chest Corporation, Leroy, N. Y. Filed Nov. 7, 1947.

Utilco

Applicant claims ownership of Registration No. 257,845.

For Tool Chests, and Boxes for General Utility Purposes, All of Portable Nature, Made of Metal and Sold Empty.

Claims use since Nov. 1, 1928.

Ser. No. 581,958. International Harvester Company, Chicago, Ill. Filed July 14, 1949.



The words "Packaging Materials Tested and Approved By," "Home Economist" and "International Harvester Company" are disclaimed. The lining on the drawing forms a part of the mark and does not serve to indicate color. The name "Irma Harding" and the picture are fanciful.

For Refrigeration Packaging Products—Namely, Paper Bags and Cartons Which Are Impervious to Moisture.

Claims use since on or about Apr. 29, 1949.

Ser. No. 586,800. Benjamin D. Goldberg, doing business as Hide-A-Can Co., Brooklyn, N. Y. Filed Oct. 25, 1949.

HIDE-A-CAN

The word "Can" is disclaimed.
For Cabinet Door Operated Refuse Cans.
Claims use since Oct. 17, 1949.

Ser. No. 611,001. William Thomas, South River, N. J. Filed Mar. 7, 1951.

POLETHCLAD

For Grease-Proof, Moisture-Proof, Vapor-Proof and Liquid-Tight Bags, Pouch-Like Receptacles, and Liners for Barrels, Drums, Cartons and Cases, All Prepared From Synthetic Sheet Material and From Combinations of Cellulosic and Synthetic Sheet Material.
Claims use since Oct. 30, 1950.

Ser. No. 624,280. Marston Excelsior Limited, London, England. Filed Jan. 30, 1952.

MARFLEX

Applicant claims ownership of British Registration No. 625,190, dated Sept. 10, 1943.
For Tanks (Not Being Parts of Vehicles) Made of Flexible Non-Metallic Material for Containing Liquids.

Ser. No. 624,771. Atlanta Paper Company, Atlanta, Ga. Filed Feb. 11, 1952.

The "Beer Meister"

An English translation of the words is "Beer Master." Applicant claims ownership of Registration No. 551,226.
For Carriers Made of Paper for Carrying a Plurality of Bottles or Cans of Beverages or the Like.
Claims use since Jan. 4, 1952.

Ser. No. 624,977. Stocker Manufacturing Company, Netcong, N. J. Filed Feb. 14, 1952.

FASCO

Applicant claims ownership of Registration No. 542,269.
For Paper Bags.
Claims use since Oct. 10, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 606,173. Permatex Company, Inc., Brooklyn and Sheepshead Bay, N. Y. Filed Nov. 9, 1950.



Applicant claims ownership of Registrations Nos. 93,418, 325,086, and others.
For Products Used on the Interior and Exterior of Automobiles—Namely, Body Cleaning and Polishing Compound, Wax Polish, Metal Polish, Water Mixed Paste for Grinding Automotive Valves; and Leather Belt Softener.
Claims use since January 1915.

Ser. No. 620,162. Marshall's Research Corporation, Tacoma, Wash. Filed Oct. 18, 1951.

GONE

For Liquid Detergent Preparation, Having Incidental Polishing Qualities, for Removing Spots and Stains From Varnished Surfaces.
Claims use since Aug. 25, 1951.

CLASS 5

ADHESIVES

Ser. No. 617,229. Ciba Limited, Basel, Switzerland. Filed Aug. 2, 1951.

RESOLITE

Applicant claims ownership of Swiss Registration No. 121,722, dated July 12, 1947.
For Synthetic Resins for Bonding Sand Cores for Foundries.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 575,406. Hawaiian Forest Products Co., Ltd., Hilo, Territory of Hawaii. Filed Mar. 14, 1949.

EMULSAIDE

For Emulsifying Agents.
Claims use since Mar. 24, 1948.

Ser. No. 593,955. Wellite Corporation, Tulsa, Okla. Filed Jan. 23, 1950.



For Light-Weight Additives for Drilling Fluids and Light-Weight Additives for Concrete Cements.
Claims use since 1949.

Ser. No. 620,024. The Davison Chemical Corporation, Baltimore, Md. Filed Oct. 16, 1951.

DRC-11

For Catalyst Used in the Catalytic Reforming of Hydrocarbons.
Claims use since Sept. 7, 1951.

CLASS 7

CORDAGE

Ser. No. 621,411. Naamlooze Vennootschap Kunstzijdespinnerij Nyma, Nijmegen, Netherlands. Filed Nov. 19, 1951.

NYMCORD

Applicant claims ownership of Dutch Registration No. 108,709, dated Apr. 20, 1951.
For Cords and Cordage.

Ser. No. 626,992. The Heyman Company Inc., New Orleans, La. Filed Mar. 25, 1952.



The representation of the rope is disclaimed.
For Ropes and Twines.
Claims use since Jan. 2, 1952.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 620,950. Balfour, Guthrie & Co., Limited, San Francisco, Calif. Filed Nov. 7, 1951.

"OH BOY"

For Firecrackers.
Claims use since Dec. 1, 1933.

Ser. No. 624,501. Quick-Seal Products, Inc., Herndon, Pa. Filed Feb. 4, 1952. (Sec. 2f.)

QUICK-SEAL

For Stemming Device—Namely, a Tamping Plug for Sealing Explosive-Filled Bore-Holes Preparatory to Detonation.
Claims use since Aug. 1, 1945.

CLASS 10

FERTILIZERS

Ser. No. 594,618. Borchardt Fuel Co., Highland Park, Ill. Filed Mar. 25, 1950.



The words "Puts Life in Soil" and "Soil" are disclaimed.
For Fertilizer in the Nature of Mixtures of Humus, Rich Black Soil, Peat, Sand, and Marl.
Claims use since Dec. 5, 1949.

Ser. No. 597,219. Missouri Farmers Association, Inc., Columbia, Mo. Filed May 10, 1950.

Ne-So-Min

For Fertilizers.
Claims use since Dec. 13, 1949.

Ser. No. 628,364. Michigan Peat, Inc., New York, N. Y. Filed Apr. 19, 1952.



The words "Michigan Peat" are disclaimed. Applicant claims ownership of Registration No. 433,278.
For Peat Used as a Soil Conditioner.
Claims use since Dec. 23, 1947.

Ser. No. 629,924. Acme Peat Products Limited, Vancouver, British Columbia, Canada. Filed May 20, 1952.

BLUE WHALE

Applicant claims ownership of Canadian Registration No. N. S. 40,617, dated Feb. 22, 1952.
For Sphagnum Moss for Use as a Fertilizer.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 605,233. F. E. Schundler & Co. Inc., Joliet, Ill. Filed Oct. 20, 1950.

Plastinail

For Dry Magnesia Cement for Floors and Walls.
Claims use since May 1, 1950.

Ser. No. 622,777. Kirwin & Kowall, Wilmington, Del. Filed Dec. 22, 1951.



For Wall Patching Material in Powder Form.
Claims use since Dec. 8, 1951.

Ser. No. 626,621. The Flintkote Company, New York, N. Y. Filed Mar. 18, 1952.

H. B.

For Roofing Shingles.
Claims use since Feb. 10, 1948.

Ser. No. 626,976. British Columbia Forest Products Limited, Vancouver, British Columbia, Canada. Filed Mar. 25, 1952.

Redhawk

Applicant claims ownership of Canadian Registration No. N. S. 157/40114, dated July 3, 1951.
For Cedar Sidewall Shakes.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 565,747. The Bassick Company, Bridgeport, Conn. Filed Sept. 24, 1948. (Sec. 2f.)

BASSICK-SACK

The words "Winston-Salem N. C." are disclaimed. The stippling shown on the drawing is for shading. Applicant claims ownership of Registrations Nos. 154,226, 175,377, and 346,203.
For Furniture Trimmings and Hardware—Namely, Drawer Pulls, Knobs, Ornaments, Escutcheons, Caster and Leg End Sockets.
Claims use since August 1944.

Ser. No. 580,974. Wilfred L. Boening, doing business under the assumed name of AAA Sanitation Service Company Laboratories, Ferndale, Mich. Filed June 24, 1949. (Sec. 2f—Additional evidence.)

Boening's

For Septic Tanks Used in Public Health and Sanitation.
Claims use since September 1945.

Ser. No. 583,165. National Brass Company, Grand Rapids, Mich. Filed Aug. 8, 1949. (Sec. 2f.)

DEXTER

Applicant claims ownership of Registration No. 513,038.
For Door Strap Hinges, Door Knockers, Mail Plates, Hinges, Knobs, Pulls, Window Sash Lifts, Casement Adjusters, Transom Chains, Door Stops, Hooks, Coat and Hat Hooks, Push Plates, Towel Rods, Door Guards, Window Guards, Shelf Brackets, Hasps, Key Escutcheons, Metallic Finishing Washers, Shelf Support Brackets, Door Closers, and Kick Plates.
Claims use since 1923.

Ser. No. 616,164. Fricar Mfg. Co. Inc., Schenectady, N. Y. Filed July 6, 1951.

MODERNCRAFT

For Wall Type Towel Dispensers and Parts Thereof.
Claims use since May 1950.

Ser. No. 617,239. Fricar Mfg. Co. Inc., Schenectady, N. Y. Filed Aug. 2, 1951.

fm

For Wall Type Towel Dispensers and Parts Thereof.
Claims use since May 1950.

Ser. No. 624,027. The Davies-Young Soap Company, Dayton, Ohio. Filed Jan. 24, 1952.

"DYJET"

For Dispensers for Detergents and Soaps Designed To Be Affixed to Walls or Other Surfaces.
Claims use since Dec. 11, 1951.

Ser. No. 627,043. Norman Boosey Manufacturing Company, Racine, Wis. Filed Mar. 26, 1952. (Sec. 2f.)

Boosey

For Plumbing Drainage Products—Namely, Traps, Drains, Drain Heads, Strainers and Covers, Valves, Separators and Interceptors, T's and L's, Closet Fittings, Reducers, Unions, Sumps and Covers, Cleanouts and Plugs, Drip Sinks, Vacuum Breakers and Air Gaps, and Connections, Fittings, Joints, and Caps Therefor.
Claims use since 1926.

Ser. No. 628,346. Crane Co., Chicago, Ill. Filed Apr. 19, 1952.

ACCESSO

For Waste-Water-Outlet Cover Plates.
Claims use since January 1927.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 572,003. United Tube Corporation, Elwood City, Pa. Filed Jan. 11, 1949.

Jewel Metal

The word "Metal" is disclaimed.
For Decoratively-Coated Base Metal in Which the Decorative Coating Consists of a Thin Film of Copper and/or Copper Oxide Deposited Electrolytically by the Process of Patent 2,659,053.
Claims use since Oct. 4, 1945.

CLASS 15

OILS AND GREASES

Ser. No. 618,069. Wonder Wax Company, Fresno, Calif. Filed Aug. 24, 1951.

WONDER WAX

The word "Wax" is disclaimed.
For Specially Prepared Paraffin in a Variety of Colors for the Purpose of Melting and Molding Into bowls for Various Uses for Floating Flowers, Fruit Bowls, and Home Decoration.
Claims use since Oct. 18, 1950.

Ser. No. 621,193. The Atlantic Refining Company, Philadelphia, Pa. Filed Nov. 14, 1951.

WHITE FLASH

Applicant claims ownership of Registrations Nos. 281,716, 282,406, and 394,807.
For Gasoline.
Claims use since Nov. 15, 1930.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 579,454. Sicca Soya Paint Co., Inc., Peoria, Ill., assignor, by mesne assignments, to Monarch Paint Company, Inc., Peoria, Ill., a corporation of Illinois. Filed May 24, 1949. (Sec. 2f.)

Plastic Plaster

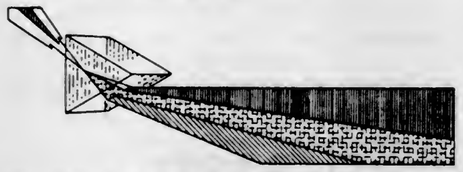
Applicant claims ownership of Registration No. 425,388.
For Synthetic Resin Decorative Textured Paint Coating Composition.
Claims use since 1943.

Ser. No. 583,990. Earl Paint Corporation, Utica, N. Y. Filed Aug. 25, 1949.

ERKOTE

For Corrosive Resisting Asphalt Base Coating, Paint Primers, Paint Coatings for Structural Steel, Varnishes, Paint Enamels, and Baking Enamels.
Claims use since 1932.

Ser. No. 624,300. Rockford Paint Manufacturing Co., Rockford, Ill. Filed Jan. 30, 1952.



The drawing is lined for the colors red, yellow, and green; color is not claimed as a feature of the mark.
For Ready Mixed Colorants.
Claims use since Aug. 1, 1951.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 578,724. Sutliff & Case Co., Inc., Peoria, Ill. Filed May 12, 1949.

BRONCHOLA

For Expectorant Useful for Coughs Due to Colds.
Claims use since Feb. 25, 1931.

Ser. No. 597,991. The Vale Chemical Company, Inc., Allentown, Pa. Filed May 23, 1950.

CELOPEC

For Tablets Used as an Effective Regulation of Colonic Function.
Claims use since Apr. 1, 1950.

Ser. No. 599,722. Three R Co., Passaic, N. J. Filed June 24, 1950.

THREE R

For Botanical Extract To Be Used for Scalp Treatment.
Claims use since May 15, 1950.

Ser. No. 609,101. Ressan Co., Inc., Terre Haute, Ind. Filed Jan. 22, 1951.

Toof

For Liquid Preparation for Use in the Treatment of Athlete's Foot.
Claims use since Oct. 24, 1950.

Ser. No. 610,466. Schering Corporation, Bloomfield, N. J. Filed Feb. 23, 1951.

NEOPAXAN

For X-Ray Diagnostic Medium for Internal Administration.
Claims use since Dec. 19, 1950.

Ser. No. 613,277. Winthrop-Stearns Inc., New York, N. Y. Filed Apr. 27, 1951.

PNS

For Analgesic, Antiseptic, and Decongestive Preparation for Topical Application.
Claims use since Apr. 9, 1951.

Ser. No. 619,220. Universal Nutritions, Inc., New York, N. Y. Filed Sept. 25, 1951.

LECIPLEX

For Lecithin Product Taken Internally and Utilized as an Aid in the Digestion and Utilization of the Nutritive Constituents of Food Fats and Utilized in the Bile To Keep the Cholesterol in Solution.
Claims use since Aug. 30, 1951.

Ser. No. 619,711. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Oct. 8, 1951.

PYRAPAR

In the drawing the fact that the trade-mark is always imprinted in white on a red background is indicated by the conventional lining for red. Applicant claims ownership of Registration No. 538,248.
For Medical Preparation—Namely, Tablets of Pyrilamine Bromtheophyllinate.
Claims use since Apr. 4, 1951.

Ser. No. 620,296. Don Baxter, Inc., Glendale, Calif. Filed Oct. 22, 1951.

PHARMASEAL

For Solutions for Parenteral Use Comprising: Sodium Citrate, Dextrose, Hydrolyzed Protein, Potassium Chloride, Calcium Levulinate, Magnesium Sulfate, Novocain, Molar Sodium Lactate, Normal Saline, Sucrose, Distilled Water, Concentrated Saline.
Claims use since Aug. 30, 1946.

Ser. No. 620,967. The Mara Laboratories, Inc., Harrison, N. J. Filed Nov. 7, 1951.

GERIPEUTIC

For Medicinal Preparation—Namely, a Geriatric Vitamin Formula.
Claims use since Sept. 5, 1951.

Ser. No. 621,185. Paul J. Williams, doing business under the name The P. J. Williams Co., Los Angeles, Calif. Filed Nov. 13, 1951.

MASTER FORMULA 303-R

The word "Formula" is disclaimed.
For Vitamin Capsules.
Claims use since Sept. 29, 1951.

Ser. No. 621,732. E. R. Squibb & Sons, New York, N. Y. Filed Nov. 27, 1951.

SOLACTHYL

For Preparation of Corticotropin.
Claims use since Oct. 30, 1951.

Ser. No. 626,238. Galen Laboratories, Pittsburgh, Pa. Filed Mar. 11, 1952.

Got

For Medicated Dandruff Remover, Medicated Skin Cream and Lotion for Treating Acne, Skin Blemishes, and Blackheads and Topical Lotion for Psoriasis.
Claims use since Feb. 16, 1949.

Ser. No. 627,552. George A. Breon & Company, New York, N. Y. Filed Apr. 4, 1952.

BREDATIVE

For Sedative and Hypnotic Preparation.
Claims use since Mar. 10, 1952.

Ser. No. 627,963. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

AQUACILLIN-A.S./600

Applicant claims ownership of Registrations Nos. 530,226, 527,867, and 537,307.
For Pharmaceutical Preparations Containing Penicillin.
Claims use since Oct. 10, 1950.

Ser. No. 627,970. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

PRODIMAC

For Mercurial Diuretic.
Claims use since Feb. 25, 1952.

Ser. No. 627,973. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

TETRACILINA*

For Penicillin and Sulfonamides Preparation in Liquid and Tablet Form.
Claims use since May 28, 1951.

Ser. No. 627,974. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

TITRAMID

For Tablet Containing an Antacid and Sedative.
Claims use since Sept. 27, 1951.

Ser. No. 627,975. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

TITRASED

For Antacid and Sedative Tablet.
Claims use since Jan. 18, 1952.

Ser. No. 627,976. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

VASCUTOL

For Preparation Used as a Vascular Protective and Lipotropic Agent.
Claims use since Dec. 31, 1951.

Ser. No. 629,413. Austin Laboratories, Inc., Buffalo, N. Y. Filed May 9, 1952.

PENRODS

For Bougies Containing Antibiotics for the Treatment of Bovine Mastitis.
Claims use since Feb. 14, 1952.

Ser. No. 630,468. Allied Drugs, Inc., Hackensack, N. J. Filed June 14, 1952.

BEL-GEL

The word "Gel" is disclaimed.
For Preparation for Treatment of Acidity.
Claims use since Apr. 8, 1952.

Ser. No. 630,474. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed May 29, 1952.

MYTOCILLIN

For Antibiotic Derivative.
Claims use since Feb. 5, 1952.

Ser. No. 630,950. Pharmaceuticals, Inc., Newark, N. J. Filed June 9, 1952.

Viragex

For Geriatric Dietary Supplement.
Claims use since May 14, 1952.

Ser. No. 631,086. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed June 24, 1952.

MAGNAMICINA

For Antibiotic Preparation.
Claims use since June 17, 1952.

Ser. No. 631,199. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Filed June 14, 1952.

BENTROFENE

Applicant claims ownership of Swiss Registration No. 137,288, dated Mar. 24, 1951.
For Pharmaceutical Preparation Consisting of a Ferment System Increasing the Permeability of Connective Tissue (Spreading Factor) for Use in Connection With Subcutaneous Infusions, Subcutaneous or Intramuscular Injections, and Local Anesthesia: for Use as an Adjuvant in Making Urographies, in Draining Viscous Discharges From Joints and Body Cavities, in Edema Resorption (Quincke): for Increasing the Protective Colloids in Body Fluids; and for Use in Certain Cases of Male Sterility.

Ser. No. 631,201. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Filed June 14, 1952.

CILAG 61

Priority under Sec. 44(d). Swiss application filed Feb. 14, 1952, Registration No. 141,097 dated Feb. 14, 1952.
For Pharmaceutical Preparation for Use as a Cytostatic and Bacteriostatic.

Ser. No. 631,539. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Filed June 21, 1952.

AERETS

For Medicinal Preparation Intended for Use in the Treatment of Infections of the Mouth and Throat.
Claims use since May 22, 1952.

Ser. No. 631,731. C. B. Fleet Company, Incorporated, Lynchburg, Va. Filed June 25, 1952.

NUTRI-ESSEN

For Preparation of Amino Acids, Minerals, and Vitamins Used as a Dietary Supplement and/or as a Therapeutic Agent in Deficient Nutritional States, Anemias, Anorexia, Gastric Ulcers, and Burns.
Claims use since May 1, 1952.

Ser. No. 631,903. The Upjohn Company, Kalamazoo, Mich. Filed June 27, 1952.

Biotisone

For Ophthalmic Preparation.
Claims use since Apr. 4, 1952.

Ser. No. 632,058. Abbott Laboratories, North Chicago, Ill. Filed July 2, 1952.

ISOLYN

For Tuberculostat.
Claims use since June 13, 1952.

Ser. No. 632,059. Abbott Laboratories, North Chicago, Ill. Filed July 2, 1952.

NEMBUSEN

Applicant claims ownership of Registrations Nos. 285,003 and 426,351.
For Sedative, Hypnotic, Muscle Relaxing Anesthetic Compound for Veterinary Use.
Claims use since June 18, 1952.

Ser. No. 632,341. American Cyanamid Company, New York, N. Y. Filed July 10, 1952.

LEDERQUIN

For Antimalarial Preparation.
Claims use since June 20, 1952.

Ser. No. 632,985. Jeral Products, Inc., Chicago, Ill. Filed July 24, 1952.

EMEX

For Dietary Supplement.
Claims use since July 1, 1952.

Ser. No. 633,026. Abbott Laboratories, North Chicago, Ill. Filed July 25, 1952.

PRO-GEN

Applicant claims ownership of Registration No. 433,222.
For Feed Supplement for Animal Feeds Consisting of Arsanilic Acid, Compositions Containing Arsanilic Acid, and Compositions Containing Derivatives of Arsanilic Acid.
Claims use since July 10, 1952.

Ser. No. 633,147. Drug Specialties, Incorporated, Winston-Salem, N. C. Filed July 28, 1952.

DRU-PRENATE

For Medical Preparation in Capsule Form for Use in Treatment of Cases of Vitamin and Mineral Deficiencies, Particularly During Pregnancy and Lactation.
Claims use since Feb. 2, 1948.

Ser. No. 633,272. Rhodes Pharmacal Co., Inc., Cleveland, Ohio. Filed July 30, 1952.

ENTUSSAMINE

For Liquid Antihistaminic Cough Syrup.
Claims use since Jan. 24, 1952.

Ser. No. 633,275. Rystan Company, Inc., Mount Vernon, N. Y. Filed July 30, 1952.

Rysopron

For Antiseptic Preparations in Powder Form.
Claims use since July 3, 1952.

Ser. No. 633,447. Ciba Pharmaceutical Products, Inc., Summit, N. J. Filed Aug. 4, 1952.

ESOMID

For Ganglionic Blocking Agent Marketed in the Form of Tablets and Syrup for Oral Administration and Solutions for Parenteral Injection.
Claims use since June 17, 1952.

CLASS 19

VEHICLES

Ser. No. 557,437. C. R. Daniels, Inc., Baltimore, Md. Filed May 20, 1948.

SANITEX

For Roller Mounted Carrier Boxes Made of Canvas or Canvas Fabrics Mounted on Rollers.
Claims use since April 1946.

Ser. No. 570,087. Bendix Aviation Corporation, South Bend, Ind. Filed Dec. 7, 1948. (Sec. 2f as to "Bendix.")

Bendix

Applicant claims ownership of Registration No. 214,284.
For Vehicle Braking Systems and Accessories Therefor—Namely, Valves, Reservoirs, Tanks, Conduits, Fittings, and Power Chambers.
Claims use since Nov. 24, 1948, on the mark as shown; and since Feb. 28, 1925, as to "Bendix."

Ser. No. 608,274. Frank T. Hilliker, doing business as The Cart-Tier Company, St. Louis, Mo. Filed Jan. 2, 1951.

Cart-tier

The word "Cart" is disclaimed.
For Hand Trucks.
Claims use since June 29, 1950.

Ser. No. 620,114. J. Wright Smith, Austin, Tex. Filed Oct. 17, 1951.

Kiddee Dayette

The word "Kiddee" is disclaimed.
For Children's Auxiliary Seat With Steering Gear and Controls Simulating Automobile Driving Elements.
Claims use since Aug. 3, 1950.

Ser. No. 623,086. States Development and Manufacturing Co., Chicago, Ill. Filed Jan. 2, 1952.

Life Saver

For Automatic Light Signaling Device for Use on Automotive Vehicles To Indicate by Various Colors in the Signal Light the Operation of the Vehicle While in Motion With Reference to Its Slowing Down, Its Increasing in Speed, and Its Stopping.
Claims use since Sept. 17, 1951.

Ser. No. 625,085. Willys-Overland Motors, Inc., Toledo, Ohio. Filed Feb. 16, 1952.

The lining on the drawing is for shading purposes only.
For Automobiles and Structural Parts Thereof.
Claims use since Aug. 15, 1951.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 557,349. Essex Wire Corporation, Detroit, Mich. Filed May 19, 1948. (Sec. 2f—Additional evidence.)

ESSEX

EXTRA-TEST

For Bare and Insulated Electric Wires, and Insulated Electric Cables.
Claims use since Apr. 1, 1945, on the mark as shown; and since Feb. 2, 1930, as to "Essex."

Ser. No. 591,973. Art Specialty Company, Chicago, Ill. Filed Feb. 4, 1950.

LITEMASTER

For Table Fluorescent Desk Lamps.
Claims use since September 1935.

Ser. No. 597,619. Ward Leonard Electric Company, Mount Vernon, N. Y. Filed May 17, 1950.

REACTROL

For Speed and Voltage Regulators of Motors and Generators.
Claims use since Nov. 16, 1949.

Ser. No. 597,799. Ward Leonard Electric Company, Mount Vernon, N. Y. Filed May 19, 1950.

REACTRON

For Magnetic Amplifiers Used in the Regulation of the Speed and Voltage of Motors and Generators.
Claims use since Sept. 23, 1947.

Ser. No. 612,455. Ideal Industries, Inc., Sycamore, Ill. Filed Apr. 10, 1951.

BLO-R-VAC

The word "Blo-R" is disclaimed.
For Electric Blowers and Vacuum Cleaners and Parts Thereof.
Claims use since Feb. 20, 1951.

Ser. No. 614,656. The Electric Storage Battery Company, Philadelphia, Pa. Filed June 2, 1951.

ULTRA START

For Storage Batteries and Their Parts.
Claims use since May 17, 1951.

Ser. No. 614,847. Sears, Roebuck and Co., Chicago, Ill. Filed June 6, 1951.

COLD SPOT

Applicant claims ownership of Registrations Nos. 274,445, 333,372, and others.
For Electric Food Package Sealers.
Claims use since December 1948.

Ser. No. 614,848. Sears, Roebuck and Co., Chicago, Ill. Filed June 6, 1951.

METEOR

Applicant claims ownership of Registrations Nos. 120,438 and 283,215.
For Radio Receivers, Radio-Phonograph Combinations, Television Receivers, Radio Parts (Namely, Storage Batteries, Variometers, Variocouplers, Rheostats, Potentiometers, Transformers, Condensers).
Claims use since April 1917.

Ser. No. 615,397. The New York Air Brake Company, Watertown and New York, N. Y. Filed June 19, 1951.

NY

The mark comprises the letters "N" and "Y" written as a conventionalized monogram.
For Electrically Actuated Valves and Parts Thereof and Pressure-Actuated Electric Switches.
Claims use since on or about Apr. 23, 1925.

Ser. No. 617,386. Air Reduction Company, Incorporated, New York, N. Y. Filed Aug. 7, 1951.

AIRCOSPOT

Applicant claims ownership of Registrations Nos. 119,485, 141,469, and others.
For Electric Arc Welding Apparatus, Parts and Accessories Therefor—Namely, Gas-Shielded Arc Welding Machines and Electrical Control Panels.
Claims use since Mar. 29, 1951.

Ser. No. 618,286. Bomac Laboratories, Inc., Beverly, Mass. Filed Aug. 31, 1951.

Bomac

For Electronic Tubes and Microwave Transmission Devices—Namely, Gaseous Discharge Attenuator Tubes; Gaseous Discharge Switching Tubes, Including Transmit

Receive, Anti-Transmit Receive and Pre-Transmit Receive Tubes; Grid Controlled Gas Rectifier Tubes; Spark Gap Modulator Tubes; Microwave Duplexers; and Pressurizing Glass Windows for Radio Direction and Range Systems.

Claims use since January 1948.

Ser. No. 619,818. Dow Corning Corporation, Midland, Mich. Filed Oct. 10, 1951. (Sec. 2f.)

DOW CORNING

For Electrical Insulatory Material—Namely, Electrical Varnishes, Dielectric Sealing Compositions, Molding Resins for Electrical Insulators, Elastomeric Electric Insulation, Electricians' Rubber Tape, Resins for Coating Metal Conductors.

Claims use since Mar. 1, 1943.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 579,647. Mariquita Perez, S. A., Madrid, Spain. Filed Oct. 21, 1950.

MARIQUITA PEREZ

The name "Mariquita Pérez" is fictitious. Applicant claims ownership of Spanish Registration No. 122,179, dated May 25, 1943.

For Dolls, Doll Clothes, Doll Accessories and Doll Toys; Board Games Played With Movable Pieces; and Games Played With Pictorially Illustrated or Textually Imprinted Cards Representative of Some Allegorical, Artistic, Biographical, Geographical, Historical, Humorous, Literary, Mechanical, Military, Mythical, Political, or Other Achievement, Condition, Development, Data, Era, Event, Fact, Occurrence, Situation, Stage or State; and Educational Toys.

Ser. No. 616,576. Wright & McGill Co., Denver, Colo. Filed July 16, 1951.



Applicant claims ownership of Registration No. 279,747.

For Bulk Fish Hooks, Snelled Fish Hooks.

Claims use since Sept. 27, 1927.

Ser. No. 623,337. Champion Plastics Corp., New York, N. Y. Filed Jan. 9, 1952.

Space Scouts

For Toys—Namely, Movable and Stationary Airplanes, Men, Automobiles, Guns, and Ships.

Claims use since Dec. 3, 1951.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 567,120. National Association Domestic and Farm Pump Manufacturers, Chicago, Ill. Filed Oct. 12, 1948. COLLECTIVE MARK.



All wording except the term "Nat'l" is disclaimed.

For Water Systems, Comprising Pumps, Windmills, Pump Jacks, Pressure Tanks, Cylinders, Strainers and Parts Thereof Sold as a Unit.

Claims use since May 1, 1948.

Ser. No. 579,253. Automatic Products Co., Minneapolis, Minn. Filed May 21, 1949.

FROSTEE

For Automatic Drink-Vending Machines.

Claims use since Apr. 23, 1949.

Ser. No. 580,438. The Standard Stoker Company, Inc., New York, N. Y., now by change of name Read Standard Corporation, a corporation of Delaware. Filed June 14, 1949.

POLY-PLANE

The word "Plane" is disclaimed.

For Endless Conveyors.

Claims use since Apr. 1, 1949.

Ser. No. 583,656. Mining Progress Inc., Woodbury, N. Y. Filed Aug. 18, 1949.

"MINING PROGRESS"

The word "Mining" is disclaimed.

For Mining Coal Planers, Mining Chutes, Mining Conveyors, Coal Rake Pull Loaders, Mining Rapid Loaders, Helical-Toothed Motors for Driving Conveyors, Centrifugal Pumps, Winches and Jacks, Tub Cleaning Machinery for Maintenance of Tubs and Mine Cars, Trays for Mining Conveyors, Chain Flights for Mining Conveyors, Pulls and Cables for Mining Conveyors and Planers, Wedges for Mining Planing Machinery, Chains and Disks for Disk Retarding Conveyors, Chutes for Disk Retarding Conveyors, Loading Racks and Shovels, Automatic Couplings for Coal Loaders, Shovel Vibrators for Coal Loaders, Driving Pulleys and Drum Winches for Mining Haulage Machinery, Gas Driven Motors and Drives for Mining Machinery.

Claims use since July 20, 1949.

Ser. No. 590,131. W. Lewis Armstrong, Old Forge, N. Y. Filed Dec. 30, 1949.



The words "Hi-Pressure" are disclaimed.

For Fire Fighting Equipment, Comprising an Automotive Vehicle Having Mounted Thereon a Water Storage Tank, a Pump for Dispersing Water Under Pressure, and Especially a High-Pressure Fog for Fire Fighting, Hose Reel, Hose and Associated Miscellaneous Parts and Accessories.

Claims use since Dec. 1, 1949.

Ser. No. 593,530. Commercial Controls Corporation, Rochester, N. Y. Filed Mar. 7, 1950.

FLEXOWRITER

For Power Operated Typewriters Having Means for Producing a Control Tape, and Being Adapted for Automatic Operation Under Control of Such Tape.

Claims use since July 17, 1946.

Ser. No. 596,995. Handy Sales Manufacturing Company, Inc., Cleveland, Ohio. Filed May 6, 1950.

Whirl-A-Way

The word "Whirl" is disclaimed.

For Hand-Operated Right-Angle Drive Adapter Mechanism Comprising a Housing Having Gearing Therein With Two Shafts Extending Therefrom at Substantially Right-Angles to Each Other, Said Shafts Being Alternately Adapted To Be Power-Driven by a Drill Chuck or Other Suitable Rotary Unit With the Other Shaft Being Employed for Rotating Work-Performing Material and for Sanding, Grinding, Polishing, and Finishing.

Claims use since Feb. 28, 1949.

Ser. No. 597,809. The Aro Equipment Corporation, Bryan, Ohio. Filed May 20, 1950.

ARO

Applicant claims ownership of Registrations Nos. 284,656, 358,240, and others.

For Automotive and Industrial Lubricating Equipment—Namely, Stationary and Portable Lubricators, Stationary and Portable Cabinet Type Lubricators, Air Compressors and Parts Thereof, Lubricant Pumps, Gear Case Flushers, Lubricant Guns, Spray Guns, Bearing Packers, Mechanical Hose Reels; Pneumatic Tools—Namely, Air Operated Motors, Drills, Tappers, Pilot Drills, Drill Chucks, Collets, Rotary Files and Burrs, Grinders, Sanders, Brushes, Polishers, Buffers, Screw Drivers, Nut Setters, Saws, Hole Saws, Electrode Dressers, Air Operated Reels, Fluid Mixers, Lint Pickers, Spindle Adapters, Tool Chucks, Speed Changing Attachments for Air Operated Motors, Right Angle Attachments for Air Operated Motors, Oilers for Interposition in Compressed Air Lines, Spring Operated Tool Balancers, Rotary Impact Tools, and Parts for the Foregoing Pneumatic Tools.

Claims use since July 1, 1947.

Ser. No. 598,071. Dyna-Fog Corp., Vandalia, Ohio. Filed May 25, 1950.

DYNA-FOG

For Jet Insecticidal Fog Generators.

Claims use since Feb. 27, 1950.

Ser. No. 602,352. Webster Electric Company, Racine, Wis. Filed Aug. 17, 1950. (Sec. 2f.)

WEBSTER ELECTRIC

The word "Electric" is disclaimed. Applicant claims ownership of Registrations Nos. 269,791, 283,297, and others.

For Pumps—Namely, Oil Burner Fuel Pumps Including Fuel Strainers and Pressure Regulating Valves and Parts Thereof, Lubricating Pumps, and Pumps for Use in Power Hydraulic Apparatus; and Thermostatically Controlled Variable Diameter Pulleys, and V-Pulleys.

Claims use since May 1939.

Ser. No. 602,907. Morse Sewing Machine and Supply Corp., New York, N. Y. Filed Aug. 29, 1950.

dial-o-matic

The word "Dial" is disclaimed.

For Sewing Machines.

Claims use since Aug. 10, 1950.

Ser. No. 603,890. McCormick Brothers Company, Albany, Ind. Filed Sept. 22, 1950.

Sift-Master

The word "Sift" is disclaimed.

For Floursifters.

Claims use since Aug. 8, 1950.

Ser. No. 614,338. The Deming Company, Salem, Ohio. Filed May 25, 1951.

"CUSHIONETTE"

For Water Systems Sold as a Unit and Comprising a Tank, a Pump, a Motor, and a Fluid Pressure Responsive Motor Controlling Switch, and Parts Thereof.

Claims use since Jan. 28, 1951.

Ser. No. 614,531. American Iron and Machine Works Company, Oklahoma City, Okla. Filed May 31, 1951.

HYDRA-CUSHION

The word "Cushion" is disclaimed.

For Valve Assemblies and Parts Thereof for Hydraulic Pumps Other Than Wellpumps.

Claims use since March 1949.

Ser. No. 618,448. S. N. Daily, doing business as Daily Pump Co., Quapaw, Okla. Filed Sept. 6, 1951.

AM-PRO

For Pump Used in the Transfer of Ammonia, Propane, and Other Liquefied Petroleum Gases.
Claims use since June 4, 1949.

Ser. No. 621,357. The Dorr Company, Stamford, Conn. Filed Nov. 17, 1951.

CLARAETOR

For Apparatus for Waste Water Treatment Under Oxidizing Conditions, and More Particularly for Sedimentation Apparatus Such as Thickeners or Clarifiers Surrounded by Aeration Chambers.
Claims use since August 1943.

Ser. No. 621,745. American Machine and Metals, Inc., East Moline, Ill. Filed Nov. 28, 1951. (Sec. 2f.)

CENTER-SLUNG

The representation of the name plate is disclaimed. Applicant claims ownership of Registration No. 288,824.
For Centrifugal Extractors.
Claims use since May 26, 1930.

Ser. No. 622,921. Thomas Bolton & Sons Limited, Widnes, England. Filed Dec. 28, 1951.



Applicant claims ownership of British Registration No. 644,335, dated Jan. 30, 1946.
For Copper Printing Rollers.

Ser. No. 623,602. Johnston Water-System Co., Mansfield, Ohio. Filed Jan. 15, 1952.

JATIC

For Centrifugal Pumps for Handling Water, Oil, or Liquid Fuels; Self-Priming Centrifugal Pumps; Domestic Water Handling Units Comprising Deep and Shallow Well Jet-Centrifugal Pump Combination Units; Deep and Shallow Well Piston Pumps; and Automatic Sump Pumps for Cellar Drainage.
Claims use since on or about Dec. 15, 1949.

Ser. No. 625,636. O. M. Scott & Sons Company, Marysville, Ohio. Filed Feb. 27, 1952.



The drawing is lined to indicate shading only. The figure is fanciful.
For Mechanical Wheeled Spreaders for Seeding, Weeding, and Feeding.
Claims use since Mar. 1, 1940.

Ser. No. 626,002. Price Vacuum Stores, Inc., Philadelphia, Pa. Filed Mar. 5, 1952.

Aristocrat

For Electric Sewing Machines and Parts Thereof.
Claims use since Feb. 7, 1952.

Ser. No. 626,034. International Latex Corporation, Dover, Del. Filed Mar. 6, 1952.

PLAYTEX

For Hair Cutters and Blades Therefor.
Claims use since on or about June 1, 1950.

Ser. No. 626,411. Proportioneers, Inc., Providence, R. I. Filed Mar. 13, 1952.

MICR-O-SHOT

For Reciprocating Diaphragm Type Pumps for Feeding Liquid Chemicals.
Claims use since Feb. 22, 1952.

Ser. No. 626,520. Markwell Manufacturing Co., Inc., New York, N. Y. Filed Mar. 15, 1952.

S-O

For Stapling Machines Used for Fastening Papers, Cardboard, Fabrics, and Light Gauge Metal Together, and Also for Fastening Papers, Cardboard, Fabrics, and Light Gauge Metal on to Wood.
Claims use since Sept. 24, 1951.

Ser. No. 626,846. Addressograph-Multigraph Corporation, Cleveland, Ohio. Filed Mar. 22, 1952.

Addressolith

For Duplicating Machines.
Claims use since Feb. 7, 1952.

Ser. No. 626,876. Great Eastern Equipment Corp., New York, N. Y. Filed Mar. 22, 1952.

GREAT EASTERN

For Electric Sewing Machines and Parts Thereof.
Claims use since Feb. 7, 1952.

Ser. No. 626,877. Great Eastern Equipment Corp., New York, N. Y. Filed Mar. 22, 1952.

REGENT

For Electric Sewing Machines and Parts Thereof.
Claims use since Feb. 7, 1952.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 578,494. Donaco Plastics Corporation, Chicago, Ill. Filed May 10, 1949.

Upzee Dazee

For Stocking Dryer Rack.
Claims use since on or about Jan. 1, 1949.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 617,720. Mechanical Industries Production Company, Akron, Ohio. Filed Aug. 15, 1951.



For Thermostats.
Claims use since July 26, 1946.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 628,140. Brown & Bigelow, St. Paul, Minn. Filed Apr. 16, 1952.

Remembrance

Applicant claims ownership of Registrations Nos. 147,758, 239,599, and others.
For Clocks.
Claims use since Feb. 28, 1952.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 626,047. Quaker Silver Co., Inc., North Attleboro, Mass. Filed Mar. 6, 1952.

"HURRICANE"

For Sterling Silver Salt and Pepper Shakers.
Claims use since during July 1940.

Ser. No. 627,423. Joseph Berland, New York, N. Y. Filed Apr. 2, 1952.

NEEDLE POINT

For Finger Rings.
Claims use since Feb. 5, 1951.

Ser. No. 627,641. Oneida Ltd., Oneida and Sherrill, N. Y. Filed Apr. 5, 1952.

ENGAGEMENT

For Sterling Silver Flatware and Hollowware.
Claims use since Feb. 13, 1952.

Ser. No. 628,246. Advance Aluminum Castings Corp., Chicago, Ill. Filed Apr. 18, 1952.

Family Pride

For Knives, Forks, Spoons, Butter Spreaders, Gravy Ladles, and Pastry Servers, All Made Partly or Wholly of Silver.
Claims use since July 13, 1951.

Ser. No. 628,543. Alfred E. Land, Bluefield, W. Va. Filed Apr. 23, 1952.

Ladylove

For Diamond Rings and Mountings Therefor.
Claims use since Nov. 25, 1951.

Ser. No. 631,034. The Alvin Corporation, Providence, R. I. Filed June 11, 1952.

BRIDAL BOUQUET

For Sterling Silver Hollowware and Sterling Silver Flatware.
Claims use since 1932.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 584,410. Lactona Incorporated, St. Paul, Minn. Filed Sept. 2, 1949. (Sec. 2f.)

TTp

Applicant claims ownership of Registration No. 367,740.
For Toothbrushes Having a Massaging Element Thereon.
Claims use since Feb. 21, 1938.

Ser. No. 617,411. Mira-Sham Corporation, Chicago, Ill. Filed Aug. 7, 1951.

mira-sham

For Non-Woven Cloth-Like Sheet Material in the Nature of Chamois, for Cleaning, Dusting, and Polishing, Sold in the Form of Cut-to-Size Sheets.
Claims use since Mar. 9, 1951.

Ser. No. 628,628. International Paint Company, Inc., New York, N. Y. Filed Apr. 24, 1952.



Applicant claims ownership of Registrations Nos. 61,631, 83,069, and others.
For Paint Brushes.
Claims use since Mar. 5, 1952.

Ser. No. 628,629. International Paint Company, Inc., New York, N. Y. Filed Apr. 24, 1952.

Interlux

Applicant claims ownership of Registration No. 432,974.
For Paint Brushes.
Claims use since Mar. 5, 1952.

Ser. No. 628,630. International Paint Company, Inc., New York, N. Y. Filed Apr. 24, 1952.

Interlux

Applicant claims ownership of Registrations Nos. 61,631, 83,069, and others.
For Paint Brushes.
Claims use since Mar. 5, 1952.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 628,008. Robertshaw-Fulton Controls Company, Greensburg, Pa. Filed Apr. 12, 1952.



For Combined Pilot and Main Burner Gas Valves, and Pilot Burners.
Claims use since Mar. 1, 1949.

CLASS 37

PAPER AND STATIONERY

Ser. No. 601,738. Virgil H. Kruse, doing business as The Menucraft Company, Evanston, Ill. Filed Aug. 4, 1950.



The word "Menu" is disclaimed.
For Partially Printed and/or Ornamented Menu Covers and Folders, Menu Insert Sheets and Cards, and Printed Paper Place Mats.
Claims use since Aug. 5, 1948.

Ser. No. 601,740. Virgil H. Kruse, doing business as The Menucraft Company, Evanston, Ill. Filed Aug. 4, 1950.



The word "Menu" is disclaimed.
For Partially Printed and/or Ornamented Menu Covers and Folders, Menu Insert Sheets and Cards, and Printed Paper Place Mats.
Claims use since Feb. 20, 1946.

CLASS 39

CLOTHING

Ser. No. 544,892. Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Filed Dec. 19, 1947.



The drawing is lined for red.
For Footwear Made of Rubber and of Combinations of Rubber and Fabric and of Rubber and Leather—Namely, Boots, Shoes, Overshoes, Arctics, Gaiters, Rubbers, Footholds, Overs, Canvas Shoes, and Oxfords; Also Rubber Soles and Heels.
Claims use since Sept. 1, 1900.

Ser. No. 545,075. Berry & Benson, Chicago, Ill. Filed Dec. 22, 1947.

TRAVEL-TWIN

The word "Travel" is disclaimed.
For Men's and Ladies' Combination Topcoats and Overcoats.
Claims use since Dec. 3, 1947.

Ser. No. 567,778. The H. C. Godman Company, Columbus, Ohio. Filed Oct. 28, 1948. (Sec. 2f with respect to "Cushion-Step.")



The words "Arch" and "Shoe" and the representation of a shoe are disclaimed.
For Shoes for Women.
Claims use since about June 1934.

Ser. No. 580,271. Waterville Textile Mills, Inc., Waterville, N. Y. Filed June 10, 1949. (Sec. 2f.)

Tracktog

Applicant claims ownership of Registration No. 259,243.
For Knit Athletic Union Suits and Athletic Shirts for Men, Women, Youths of Both Sexes, and Children.
Claims use since on or about Nov. 22, 1926.

Ser. No. 586,058. The Nu-Lift Company, Inc., Hollywood, Calif. Filed Oct. 10, 1949. (Sec. 2f—Additional evidence.)

"Nu-Lift"

Applicant claims ownership of Registration No. 415,589.
For Maternity Girdles, Maternity Belts, and Maternity Corsets.
Claims use since June 1, 1944.

Ser. No. 587,520. Worcester Shoe Company, Worcester, Mass. Filed Nov. 8, 1949.

ROYAL WORCESTER

The word "Worcester" is disclaimed.
For Men's Shoes Composed of Leather and Combinations Thereof With Rubber and Fabric.
Claims use since Aug. 26, 1949.

Ser. No. 590,186. Simplifold Manufacturing Co., Inc., Los Angeles, Calif., assignor to Meyer Coblin, Los Angeles, Calif. Filed Dec. 30, 1949. (Sec. 2f.)

Simplifold

For Infants' Clothing—Namely, Diapers, Sacs, Wrappers, Bibs, and Panties.
Claims use since 1937.

Ser. No. 590,193. Thurman Manufacturing Company, Philadelphia, Pa. Filed Dec. 30, 1949. (Sec. 2f as to "Thurman.")

HUG-ME-TITE by THURMAN

The words "Hug-Me-Tite" are disclaimed. Applicant claims ownership of Registration No. 358,484.
For Ladies' Sleeveless Button Vests.
Claims use since Sept. 8, 1909.

Ser. No. 593,731. Loveman, Berger & Teitlebaum, Inc., Nashville, Tenn. Filed Mar. 10, 1950.

Nyolette

For Women's Hosiery.
Claims use since January 1949.

Ser. No. 602,021. Comptoir de l'Industrie Cotonniere Société à Responsabilite Limitée, Paris, France. Filed Aug. 10, 1950.

CHRISTIAN DIOR

The name "Christian Dior" is the name of a living person whose consent to register is of record. Applicant claims ownership of French Registrations Nos. 369,998, dated Aug. 14, 1946, and 382,861, dated Jan. 7, 1948, and United States Registration No. 523,754.
For Ladies' Stockings.

Ser. No. 602,464. Millway Knitting Mill, Inc., Millway, Pa. Filed Aug. 19, 1950.

Symmetra Heel

The mark consists of the words "Symmetra Heel." The word "Heel" is disclaimed.
For Ladies' Hosiery.
Claims use since June 1, 1950.

Ser. No. 605,230. Pearl-Preview Shoe Co., Philadelphia, Pa. Filed Oct. 20, 1950.

Martinetts Philadelphia

The name "Philadelphia" is disclaimed.
For Ladies' Slippers.
Claims use since Sept. 1, 1946.

Ser. No. 606,657. Herbst Shoe Manufacturing Company, Milwaukee, Wis. Filed Nov. 20, 1950.

Child Life

For Children's Shoes Made Up of Leather, a Combination of Leather and Fabric, and a Combination of Fabric and Rubber.
Claims use since about Dec. 14, 1935.

Ser. No. 608,207. Gro-Cord Rubber Company, Lima, Ohio. Filed Dec. 29, 1950.

NEO-CREPE

The word "Crepe" is disclaimed.
For Shoe Soles.
Claims use since Oct. 19, 1950.

Ser. No. 610,151. United Leather Shoe Trimmings Company, Boston, Mass. Filed Feb. 15, 1951.

UNELCO-FINDERS

The word "Finders" is disclaimed.
For Leather Top Lifts for Shoes.
Claims use since Sept. 7, 1950.

Ser. No. 610,683. Girl Scouts of the United States of America, New York, N. Y. Filed Mar. 1, 1951.

GS

Applicant claims ownership of Registration No. 327,748.
For Girls' Outer Shirts and Head Scarves.
Claims use since February 1948.

Ser. No. 614,673. Tru Balance Corsets, Inc., New York, N. Y. Filed June 2, 1951.

Balancette

Applicant claims ownership of Registration No. 343,482.
For Ladies' Corsets, Girdles, Foundation Garments, Corselettes, Brassières, Bathing Suits and Shoes Made of Leather and a Combination of Leather, and a Combination of Leather and Fabrics.
Claims use since May 15, 1951.

Ser. No. 616,549. Albert Einson, New York, N. Y. Filed July 16, 1951.

Alberteens

For Ladies' Shoes, Hosiery, Gloves Made of Leather or Fabric, and Belts.
Claims use since May 7, 1951.

Ser. No. 617,754. The H. W. Gossard Co., Chicago, Ill. Filed Aug. 16, 1951.

Record Bra

The word "Bra" is disclaimed.
For Brassières.
Claims use since Aug. 14, 1951.

Ser. No. 618,226. Armstrong-Hibbetts & Co., Inc., Clovis, N. Mex. Filed Aug. 30, 1951.

Sand-n-Sage

For Ladies' and Misses' Hosiery.
Claims use since July 24, 1950.

Ser. No. 618,336. Ballantyne of Peebles, Incorporated, New York, N. Y. Filed Sept. 4, 1951. (Sec. 2f.)

Ballantyne of Peebles

The words "Of Peebles" are disclaimed. Applicant claims ownership of Registrations Nos. 516,660 and 516,661.
For Sweaters and Hosiery for Men, Women, and Boys.
Claims use since Aug. 14, 1946.

Ser. No. 619,533. Burlington Mills Corporation, Greensboro, N. C. Filed Oct. 3, 1951.

Donna Lynn

For Women's Hosiery.
Claims use since Sept. 5, 1951.

Ser. No. 619,844. Modern Manufacturing Co. Inc., New York, N. Y. Filed Oct. 10, 1951.

PASTIMER by MODERN

The word "Modern" is disclaimed.
For Dresses, Housedresses, Aprons, and Pajamas for Women, Misses, and Children.
Claims use since July 27, 1951.

Ser. No. 619,871. Brevitt Shoes Limited, Leicester, England. Filed Oct. 11, 1951.

Bountie

For Boots and Shoes for the Use of Men, Women, and Children.
Claims use since Sept. 11, 1951, in England; and since Sept. 11, 1951, in commerce between the United Kingdom and the United States.

Ser. No. 622,192. The Associated Merchandising Corporation, New York, N. Y. Filed Dec. 7, 1951.

BRITONAIRS

For Men's Shoes Made Wholly or in Part of Leather.
Claims use since Aug. 11, 1951.

Ser. No. 623,099. Zion's Cooperative Mercantile Institution, Salt Lake City, Utah. Filed Jan. 2, 1952.

BARZ

For Western Jeans for Women, Boys, and Girls; Men's Waist Overalls Made of Denim; Men's Bib Overalls; and Men's Coveralls.
Claims use since Nov. 15, 1951.

Ser. No. 623,264. United States Rubber Company, New York, N. Y. Filed Jan. 5, 1952.

CEL-O-CREPE

The word "Crepe" is disclaimed.
For Rubber Composition Shoe Soles.
Claims use since Dec. 13, 1951.

Ser. No. 623,443. Alex Lee Wallau, Inc., New York, N. Y. Filed Jan. 10, 1952.

GADRILLES

For Ladies' and Children's Slipper Socks.
Claims use since October 1951.

Ser. No. 623,458. Morris Glick, trading under the name David Shoe Company, Philadelphia, Pa. Filed Jan. 11, 1952.

David's Pals

The boy shown on the drawing is fanciful.
For Boys' and Girls' Shoes.
Claims use since 1935.

Ser. No. 624,558. Modiste Shoes, Inc., New York, N. Y. Filed Feb. 5, 1952.

Plèzuwalk

For Ladies' and Misses' Shoes.
Claims use since June 4, 1951.

Ser. No. 624,881. John Flautt Shoe Co., Inc., Lynn, Mass. Filed Feb. 13, 1952.

Brev-áda FROM Flautt

The words "From Flautt" are disclaimed.
For Men's and Women's Shoes, Sandals, and Slippers.
Claims use since Sept. 5, 1951.

Ser. No. 625,062. Edelson & Sons, Inc., Philadelphia, Pa., and New York, N. Y. Filed Feb. 16, 1952. (Sec. 2f.)

Delson

Applicant claims ownership of Registration No. 372,560.
For Women's Coats and Suits.
Claims use since on or about Mar. 1, 1924.

Ser. No. 625,356. Kitty Lane Blouse Co., Inc., New York, N. Y. Filed Feb. 21, 1952.

Jane Parker

The name "Jane Parker" is fanciful.
For Ladies', Misses', and Girls' Sportswear—Namely, Blouses, Skirts, Jackets, Dresses, Jumpers, and Halters.
Claims use since Oct. 1, 1951.

Ser. No.625,717. Courtshire Fashions, Inc., New York, N. Y. Filed Feb. 29, 1952.

Kashcourt

For Ladies' Coats and Suits.
Claims use since Jan. 18, 1952.

Ser. No. 625,754. Nimfees, Inc., New York, N. Y. Filed Feb. 29, 1952.

Nimfees

For Ladies' and Misses' Girdles, Panty Girdles, and Corsets and Brassières.
Claims use since Oct. 1, 1947.

Ser. No. 625,755. Palter De Liso, Inc., New York, N. Y. Filed Feb. 29, 1952.



For Ladies' Shoes Made of Leather, of Rubber, of Fabric, and of Combinations Thereof.
Claims use since October 1934.

Ser. No. 625,907. Julius Kayser & Co., New York, N. Y. Filed Mar. 4, 1952.

NYLOVENT

For Gloves for Women.
Claims use since Feb. 18, 1952.

Ser. No. 625,938. Wilker Bros. Co., New York, N. Y. Filed Mar. 4, 1952.

Tele-Nites

Applicant claims ownership of Registration No. 548,394.
For Men's, Boys', Women's, and Girls' Pajamas.
Claims use since on or about Jan. 31, 1952.

Ser. No. 626,122. A. Sandler Co., Boston, Mass. Filed Mar. 7, 1952.

Low Notes

For Shoes of Leather, Rubber, Fabric, or Combinations Thereof, for Women, Misses, and Children.
Claims use since April 1950.

Ser. No. 626,177. Walda Scott Originals, Inc., New York, N. Y. Filed Mar. 8, 1952.

Millenisuit

For Misses' and Junior Suits.
Claims use since Feb. 25, 1952.

Ser. No. 626,181. Tenn-Rock Hosiery Co., McMinnville, Tenn. Filed Mar. 8, 1952.

Tenn-Rock

For Hosiery for Men, Women, Boys, or Girls.
Claims use since Oct. 2, 1951.

Ser. No. 626,210. Lilli Ann Corp., San Francisco, Calif. Filed Mar. 10, 1952.

DiCosta

For Women's Suits.
Claims use since Nov. 12, 1951.

Ser. No. 626,241. S. Goldberg & Co. Inc., Hackensack, N. J. Filed Mar. 11, 1952.

SKY ★ PATROL

For House Slippers for Men, Women, and Children.
Claims use since Mar. 3, 1952.

Ser. No. 626,247. Hecht & Biern Inc., New York, N. Y. Filed Mar. 11, 1952.

Jernat

For Knitted and Woven Wearing Apparel for Women and Children—Namely, Sweaters, Suits, and Dresses.
Claims use since Jan. 25, 1940.

Ser. No. 626,288. Apt Shoe Mfg. Co., Boston, Mass. Filed Mar. 6, 1952.

aptitudes

For Women's Shoes.
Claims use since Sept. 10, 1951.

Ser. No. 626,331. Leeds Ltd. Coats, Inc., New York, N. Y. Filed Mar. 12, 1952.

CASHMAR

For Ladies' and Misses' Outerwear—Namely, Coats, Suits, Jackets, and Skirts.
Claims use since Jan. 9, 1951.

Ser. No. 626,470. Plee-Zing, Inc., Evanston, Ill. Filed Mar. 14, 1952.

PLEE-ZING

Applicant claims ownership of Registration No. 526,277.
For Ladies' and Misses' Hose.
Claims use since Feb. 11, 1952.

Ser. No. 627,050. Divineform Brassiere Co., Inc., New York, N. Y. Filed Mar. 26, 1952.

DIVINE FORM

The word "Form" is disclaimed.
For Ladies', Women's, and Misses' Undergarments—Namely, Brassières, Step-in Underdrawers, Girdles, Panties, and Bandeaux.
Claims use since Feb. 9, 1931.

Ser. No. 627,740. Fountain Hill Underwear Mills, Bethlehem, Pa. Filed Apr. 8, 1952.

Arlene

For Women's Underwear.
Claims use since Apr. 1, 1952.

Ser. No. 627,988. United Mills Corporation, Mount Gilead, N. C. Filed Apr. 11, 1952.

"CONSPIRACY"

For Brassières.
Claims use since Jan. 1, 1952.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 620,960. The Emporium Capwell Company, doing business as The Emporium, San Francisco, Calif. Filed Nov. 7, 1951.



The drawing is lined for shading purposes only.
For Braids, Shoe and Belt Buckles, Buttons, Comb and Hand Mirror Sets, Beads in the Nature of Trimming, Non-Electric Hair Curlers, Pin Cushions, Elastic Braids, Fabrics Having Designs Stamped Thereon for Art Needlework, Ornamental Fasteners for Wearing Apparel, Breast Forms for Use in Wearing Apparel, Gimps, Shoe or Garment Laces, Tapes and Braids for Lacings, Medallions, Fabric Monograms, Needles for Hand Sewing and Knitting, Fabric Stamped With Designs for Needle Work, Ornaments for Wearing Apparel, Passementeries, Mending Patches, Transfer Patterns for Art Needlework, Pins for Needle Work, Dress Shields, Hair Switches, Wigs Made of Human Hair for Personal Wear, Tapes in the Nature of Trimming for Upholstery and Wearing Apparel, and Fabric Trimmings for Upholstery and Wearing Apparel.
Claims use since Oct. 4, 1951.

Ser. No. 623,136. Fruit of the Loom, Inc., Providence, R. I. Filed Jan. 3, 1952.

"Select - A - Pack"

The word "Pack" is disclaimed.
For Embroidered Edgings.
Claims use since Dec. 14, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 583,763. Mercantile Stores Company, Inc., Wilmington, Del. Filed Aug. 20, 1949.

FIRST-LADY

Applicant claims ownership of Registrations Nos. 251,257, 365,411, and 405,226.
For Blankets, Textile Rugs, Bedspreads, Curtains, Printed Fabrics of Cotton, Table Cloths, Turkish Towels, Wash Cloths, Print Dish Cloths, Mattress Protectors, Plastic Pillow Covers.
Claims use since November 1935.

Ser. No. 601,195. Brown & Ackerman, Inc., New York, N. Y. Filed July 25, 1950.

CAMISERO

For Cotton Broadcloth Fabric.
Claims use since May 30, 1950.

Ser. No. 605,074. Syndicat Francais des Textiles Artificiels, Paris, France. Filed Oct. 17, 1950.



Priority is claimed under Sec. 44(d). French application filed June 6, 1950, Reg. No. 403,549, dated June 6, 1950.
For Textile Fabrics, Including Embroidered Ones, of Cotton, Silk, and Synthetic Fibres, Table Cloths and Napkins, Window and Shower Curtains, and Draperies.

Ser. No. 607,739. C. M. De Land, New York, N. Y. Filed Dec. 16, 1950.

VICALAND

For Textile Goods in the Piece Made of Wool and of Mixtures of Wool With Synthetic Fibres.
Claims use since on or about Oct. 4, 1950.

Ser. No. 617,898. Carl C. Wilm, trading as The Magnex-Denver Company, Denver, Colo. Filed Aug. 20, 1951.

The MAGNEPAD

For Pot-Holders.
Claims use since on or about July 1, 1951.

Ser. No. 621,768. Louis Hand, Incorporated, New York, N. Y. Filed Nov. 28, 1951.

TRIMETTE

For Rufflings for Windows and Curtains.
Claims use since Nov. 16, 1951.

Ser. No. 627,399. The National Filter Media Corporation, New Haven, Conn. Filed Apr. 1, 1952.

VINCEL

For Woven Filter Cloth in Roll Form, for Filtering Liquids and Gases.
Claims use since Nov. 9, 1951.

Ser. No. 627,769. Para Manufacturing Co., Inc., Newark, N. J. Filed Apr. 8, 1952.

PARALURE

Applicant claims ownership of Registration No. 389,162.
For Shower Curtains and Matching Window Drapes.
Claims use since March 1952.

Ser. No. 628,484. House Beautiful Curtains, Inc., New York, N. Y. Filed Apr. 22, 1952.

SHUR-TAPE

The word "Tape" is disclaimed.
For Window Curtains.
Claims use since Apr. 10, 1952.

Ser. No. 631,002. D. B. Fuller & Co., Inc., New York, N. Y. Filed June 10, 1952.

SANDTEX

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Jan. 15, 1951.

Ser. No. 631,021. Philadelphia Felt Company, Philadelphia, Pa. Filed June 10, 1952.

MOLLETUBE

For Seamless Tubular Woven Cotton Fabric.
Claims use since Nov. 7, 1951.

CLASS 43

THREAD AND YARN

Ser. No. 581,234. Amicale Yarns, Inc., New York, N. Y. Filed June 29, 1949.



Applicant disclaims each hank of yarn per se, but claims a right in the particular manner of display of the yarn.
For 100% Wool Yarn; and Yarn Composed of Wool and Synthetic Fibres.
Claims use since Feb. 4, 1949.

Ser. No. 621,413. Naamlooze Vennootschap Kunstzijdespinnerij Nyma, Nijmegen, Netherlands. Filed Nov. 19, 1951.

NYMCORD

Applicant claims ownership of Dutch Registration No. 108,709, dated Apr. 20, 1951.
For Yarns and Threads.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 519,796. Bioproducts Oreg. Ltd., Warrenton, Oreg. Original filed, act of 1905, Mar. 29, 1947; amended to application under act of 1946, Principal Register, May 31, 1949.

BIO-VITA

The word "Vita" is disclaimed.
For Preparations Comprised of Salmon Egg Meal, Dehydrated Liver, Yeast, Glandular Extracts and Cereal, as Foods for Fish and Fingerlings; Fish Meat, Wheat Germ Meal, and Yeast, as Foods for Cats, Dogs, Fur Bearing Animals and Livestock; and Preparations Comprised of Fish Meal, Dehydrated Liver, Glandular Extracts, Minerals, and Yeast, as Poultry Rations and as Dairy Ration Concentrates.
Claims use since July 1935.

Ser. No. 536,978. The Ace Foods, Inc., Milwaukee, Wis. Filed Oct. 7, 1947.

ACE

For Box Lunches, Consisting of Candy, Cake, and Sandwiches.
Claims use since June 15, 1946.

Ser. No. 542,814. The Capital City Products Company, Columbus, Ohio. Filed Dec. 1, 1947. CONCURRENT USE with Registrations Nos. 360,725 and 362,524 for the goods stated below, for the area comprising the States of Minnesota, Iowa, Missouri, Wisconsin, Illinois, Indiana, Michigan, Ohio, West Virginia, Maryland, Pennsylvania, New York, Delaware, New Jersey, Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire, and Maine.

White Swan

For Pure Cottonseed Oil for Food Purposes.
Claims use since Jan. 1, 1928.

Ser. No. 564,187. The Borden Company, New York, N. Y. Filed Aug. 26, 1948. (Sec. 2f—Additional evidence.)

Borden's

Applicant claims ownership of Registrations Nos. 55,233, 58,578, and others.
For Soybean Oil Meal for Use as Ingredient in Feed for Livestock and Poultry.
Claims use since Feb. 2, 1948.

Ser. No. 568,033. Commander-Larabee Milling Company, doing business as Big Diamond Mills Co., Minneapolis, Minn., now by merger Archer-Daniels-Midland Company, a corporation of Delaware. Filed Nov. 2, 1948.

ACE of DIAMONDS

Applicant claims ownership of Registration No. 138,425.
For Wheat Flour.
Claims use since on or about Jan. 1, 1938.

Ser. No. 582,810. Thomas J. Webb Company, Chicago, Ill. Filed Aug. 1, 1949.
The word "Cup" is disclaimed.



For Coffee.
Claims use since June 1937.

Ser. No. 595,426. Sun-Maid Raisin Growers of California, Fresno, Calif. Filed Apr. 7, 1950.



The representation of the girl is fanciful. Applicant claims ownership of Registrations Nos. 111,183, 121,400, and others.
For Chocolate Coated Raisins.
Claims use since Feb. 28, 1950.

Ser. No. 596,427. Harold Krasner, doing business as Westchester Food Service, White Plains, N. Y. Filed Apr. 27, 1950.



The representation of a pretzel is disclaimed. Applicant claims ownership of Registration No. 542,953.
For Pretzels.
Claims use since Mar. 24, 1950.

Ser. No. 596,481. Clement's Pastry Shop, Washington, D. C. Filed Apr. 28, 1950. (Sec. 2f as to "Clement's.")
The words "Pastry Shop" are disclaimed.

Clement's Pastry Shop

For Cakes, Pies, Cookies, and French Pastries.
Claims use since Sept. 15, 1933.

Ser. No. 598,024. Francis H. Leggett & Company, New York, N. Y. Filed May 24, 1950. (Sec. 2f.)

LEGGETT'S

For Wheat Flour and Coffee.
Claims use since 1883.

Ser. No. 598,213. Standard Brands Incorporated, New York, N. Y. Filed May 26, 1950.



The picture of the girl is fanciful. The drawing is lined for blue. Applicant claims ownership of Registration No. 332,628.
For Oleomargarine.
Claims use since May 3, 1948.

Ser. No. 600,767. Consolidated Grocers Corporation, Chicago, Ill. Filed July 17, 1950.

YumYum

For Canned Pickles and Canned Fruits and Vegetables Not Including Raw Sweet Potatoes.
Claims use since September 1926.

Ser. No. 601,753. Prince Macaroni Manufacturing Company, doing business under the name of Roman-Prince Macaroni Co., Lowell, Mass. Filed Aug. 4, 1950. (Sec. 2f—Additional evidence.)



The drawing is lined for the colors blue and red. Applicant claims ownership of Registrations Nos. 291,275, 305,738, and others.
For Spaghetti.
Claims use since January 1931.

Ser. No. 601,986. Farmers Feed Company, New York, N. Y. Filed Aug. 9, 1950.

BULL BRAND

The word "Brand" is disclaimed. Applicant claims ownership of Registrations Nos. 68,084 and 204,081.
For Dried Brewers' Grains Used for Cattle Feed.
Claims use since October 1907.

Ser. No. 602,997. C. J. Berst & Co., Appleton, Wis. Filed Aug. 31, 1950.

Miss Universe

For Cheese.
Claims use since Mar. 22, 1949.

Ser. No. 604,117. J. Franklin H. Brinsfield, trading as A. B. Harris & Company, Oxford, Md. Filed Sept. 26, 1950. (Sec. 2f.)

Fred Avon River
BRAND

For Fresh Oysters and Fresh Crab Meat.
Claims use since 1915.

Ser. No. 606,857. Cudahy Brothers Co., Cudahy, Wis. Filed Nov. 24, 1950.

BAKE-KING

The word "Bake" is disclaimed.
For Hydrogenated Lard.
Claims use since Oct. 23, 1950.

Ser. No. 607,479. John Berger, doing business under the trade name and style of Red Seal Bird Food Co., Flushing, N. Y. Filed Dec. 9, 1950.



The term "Brand" is disclaimed.
For Bird Food.
Claims use since 1936.

Ser. No. 607,741. Dixie Cone Manufacturing Company, Houston, Tex. Filed Dec. 16, 1950.



The representation of the individual cones is disclaimed.
For Edible Ice Cream Cones and Cups.
Claims use since Sept. 15, 1950.

Ser. No. 608,390. Webster-Thomas Company, Boston, Mass. Filed Jan. 4, 1951. (Sec. 2f.)

MATCHLESS

Applicant claims ownership of Registrations Nos. 46,848, 61,860, and 62 270.
For Canned Vegetable Juice Cocktail, Coffee, Tea, Frozen Apricot Pie Filling, Canned Plum Preserve, Canned Strawberry Syrup for Food Purposes, Canned Frozen Pudding, Canned Fruit Salad, Canned Strawberry Fruit, Canned Lemon and Lime Syrup for Food Purposes, Canned Lemon Syrup for Food Purposes, Canned Claret Syrup for Food Purposes, Canned Coffee Syrup for Food Purposes, Canned Chocolate Fudge, Canned Butterscotch Sauce, Canned Citrus Fruit Juices for Food Purposes, Canned Pie Fillings, Canned Mincemeat, Canned Pancake Syrup, Canned Maple Walnut for Food Toppings, Canned Toppings for Ice Cream, Canned Marshmallow, Canned Gourmet Seasoning Powder, Canned Prepared Cocoa, Canned Vegetables, Canned Red Pepper, Canned Onion Flakes, Canned Clam Chowder, Canned Prune Filling, Canned Nut and Date Filling, Canned Strawberry Jam, Canned Maple Pecan for Ice Cream Toppings, Canned Gelatin for Food Purposes, Canned Sweet Pickles, Canned Peanuts, Canned Salad Oil, Canned Coconut, Canned Welsh Rarebit, Canned Plums, Canned Breakfast Figs, Canned Fruits, Canned Dates, Canned Pimientos, Canned Cocktail Sauce, Bottled and Canned Chili Sauce, Canned Tomato Catsup, Canned Potatoes, Canned Prune Juice, Canned Apple Butter, Canned Small Orange Segments, Canned Pork and Beans, Canned Shrimp, Canned Fish, Canned Crabmeat, Canned Apple Sauce, Canned Baked

Apples, Canned Apple Juice, Canned Vegetables for Salad, Canned Carrot Juice, Canned Seedless Grapes, Canned Brown Bread, Canned Tomato Juice, Canned Tomato Puree, Canned Pumpkin, Canned Squash, Canned Sauerkraut, Bottled Fruit Preserves and Jellies, Bottled Molasses, Bottled Onion Soup Bases, Bottled Soup Bases, Bottled Olive Oil, Bottled Mustard, Bottled Mayonnaise, Bottled Salted Nuts, Unpopped Pop Corn, Bottled Pickle Relishes, Bottled Pickles, Bottled Vinegar, Bottled Olives, Bottled Potato Salad, Bottled Orange Marmalade, Bottled Vanilla Extract for Food Purposes, Bottled Caramel Flavoring for Food Purposes, Bottled Lemon Extract for Food Purposes, Bottled Cinnamon Extract for Food Purposes, Bottled Extract of Winter Green for Food Purposes, Bottled Almond Extract for Food Purposes, Bottled Peppermint Extract for Food Purposes, Canned Lime Extract for Food Purposes, Canned Pineapple Extract for Food Purposes, Canned Strawberry Extract for Food Purposes, Canned Raspberry Extract for Food Purposes, Canned Orange for Food Purposes, Salt and Pepper, Canned Soups, Canned Evaporated Milk, Packaged Raisins, Packaged Rice, Canned Pineapple, Canned Cranberry Sauce, Canned Clam Meat, Canned Sour Pickles, Canned Peanut Butter, Canned Assorted Salted Nuts, and Canned Lobster.

Claims use since Jan. 1, 1891.

Ser. No. 609,289. Fabrique Suisse des Produits au Lait Guigóz S. A., Vuadens, Canton of Fribourg, Switzerland. Filed Jan. 26, 1951.

PENNAC

For Canned Condensed Milk and Canned Milk in Powder Form.

Claims use since 1938 in Switzerland; and first used in commerce between Switzerland and the United States and among the several States of the United States on Mar. 8, 1950.

Ser. No. 610,161. Robert L. Berner Company, Chicago, Ill. Filed Feb. 16, 1951.

hop corn

The word "Corn" is disclaimed.
For Raw Pop Corn.
Claims use since Apr. 28, 1950.

Ser. No. 612,709. John Shelby, Inc., doing business as The Maple Sugar Man, Barre, Vt. Filed Apr. 16, 1951.

The World's Sweetest Greeting Card

For Maple Candy.
Claims use since Dec. 1, 1950.

Ser. No. 613,053. William W. Dickey, doing business under the trade name and style of Dickey's Potato Chip Co., New Orleans, La. Filed Apr. 24, 1951. (Sec. 2f—Additional evidence.)

Dickey's

For Food Products—Namely, Potato Chips, Being Sliced Potatoes, With Salt Added, Fried in Oil; Potatoes in Stick-Like Form, Being Cut Potatoes, Having Been Fried in Oil, Resembling "Julienne" Potatoes; and Cheese-Flavored Cornmeal, Prepared in Vegetable Oil, in Drop-Like Form.
Claims use since June 1, 1932.

Ser. No. 613,353. Wayne Candies, Inc., Fort Wayne, Ind. Filed Apr. 30, 1951.

Jane

Applicant claims ownership of Registration No. 501,800.
For Candies.
Claims use since Sept. 7, 1950.

Ser. No. 613,437. Darius D. Buell, doing business under the name Buell Farm, Elmira, Mich. Filed May 3, 1951.

Top O' Michigan

The word "Michigan" is disclaimed.
For Farm Produce—Namely, Potatoes in the Raw State.
Claims use since Jan. 13, 1951.

Ser. No. 613,739. A. E. Staley Manufacturing Company, Decatur, Ill. Filed May 10, 1951.

STOY-MIX

The word "Mix" is disclaimed. Applicant claims ownership of Registration No. 403,092.
For Soyflour Composition Intended Primarily for Use in Meat Preparations.
Claims use since June 22, 1950.

Ser. No. 614,196. Burnham & Morrill Company, Portland, Maine. Filed May 22, 1951.



Applicant claims ownership of Registrations Nos. 173,016 and 335,819.
For Canned Baked Beans.
Claims use since June 1950.

Ser. No. 614,672. The Shotwell Mfg. Co., Chicago, Ill. Filed June 2, 1951.

Fruit Bowl

For Assortment of Candies Having Varied Fruit Flavors.
Claims use since May 7, 1951.

Ser. No. 615,064. The Hills Brothers Company, New York, N. Y. Filed June 12, 1951.

Dromedary

For Baked Apples, Cherries, Citron, Cranberry Sauce, Fruits and Peels, Grapefruit (Segments), Grapefruit Juice, Lemon Peel, Orange Juice, Orange-Grapefruit (Segments), Orange and Grapefruit Juice, Orange Hearts (Segments), Orange Peel, Pimientos, Pineapple, Sweet Potatoes, Packed in Cans; Chocolate Nut Roll, Date Nut Roll, Orange Nut Roll, Which Are Finished Baked Products Packed in Cans; Corn Muffin Mix, Cup Cake Mix, Dates, Date Muffin Mix, Devil's Food Mix, Fruit Cake Mix, Fudge Mix, Gingerbread Mix, White Cake Mix, Packed in Cartons; Coconut Packed in Cans and Cartons.

Claims use since 1905.

Ser. No. 615,065. The Hills Brothers Company, New York, N. Y. Filed June 12, 1951.



Applicant claims ownership of Registrations Nos. 40,942, 83,837, and others.

For Baked Apples, Cherries, Citron, Cranberry Sauce, Fruits and Peels, Grapefruit (Segments), Grapefruit Juice, Lemon Peel, Orange Juice, Orange-Grapefruit (Segments), Orange and Grapefruit Juice, Orange Hearts (Segments), Orange Peel, Pimientos, Pineapple, Sweet Potatoes, Packed in Cans; Chocolate Nut Roll, Date Nut Roll, Orange Nut Roll, Which Are Finished Baked Products Packed in Cans; Corn Muffin Mix, Cup Cake Mix, Dates, Date Muffin Mix, Devil's Food Mix, Fruit Cake Mix, Fudge Mix, Gingerbread Mix, White Cake Mix, Packed in Cartons; Coconut Packed in Cans and Cartons.

Claims use since 1929.

Ser. No. 617,719. Harold E. May, doing business as May's Candy Shop, Mackinac Island, Mich. Filed Aug. 15, 1951. (Sec. 2f.)

Famous Mackinac Fudge

The word "Fudge" is disclaimed.
For Candy—Namely, Fudge.
Claims use since Sept. 6, 1944.

Ser. No. 618,008. Popcorn Products Corporation, Milwaukee, Wis. Filed Aug. 23, 1951.

GAYLE MARTIN

The words "A" and "Product" are disclaimed.
For Raw Popcorn, Impregnated With Vegetable Oil.
Claims use since June 14, 1951.

Ser. No. 619,252. Michael B. Manna, Jersey City, N. J. Filed Sept. 26, 1951.



The word "Pizza" is disclaimed.
For Italian Style Baked Goods—to Wit, Pizza Pies.
Claims use since May 4, 1951.

Ser. No. 619,382. Candy Crafters, Inc., Lansdowne, Pa. Filed Sept. 29, 1951. (Sec. 2f—Additional evidence.)

TOYPAKS

Applicant claims ownership of Registration No. 435,169.
For Candy.
Claims use since 1934.

Ser. No. 620,096. Feed Service Corporation, Crete, Nebr. Filed Oct. 17, 1951.

MOREA

For Animal Feeds Containing Molasses and Urea and Used for Ruminants.
Claims use since Oct. 3, 1951.

Ser. No. 622,626. Frank R. Shaw, Presque Isle, Maine. Filed Dec. 17, 1951.



The drawing is lined for the color red, but no claim is made to the color.
For Potatoes in Their Raw State.
Claims use since on or about June 15, 1947.

Ser. No. 625,756. Price Candy Company, Kansas City, Mo. Filed Feb. 29, 1952.

Red Milk
Milk Chocolates of Distinction

The words "Milk" and "Milk Chocolates of Distinction" are disclaimed.
For Candy.
Claims use since Jan. 28, 1952.

Ser. No. 626,044. Orleans Canning Company, Chicago, Ill. Filed Mar. 6, 1952.

LOCLI-PUPS

The word "Pups" is disclaimed.
For Dog Food.
Claims use since Feb. 25, 1952.

Ser. No. 626,082. Hawley & Hoops, Inc., East Boston, Boston, Mass. Filed Mar. 7, 1952.

CLOR-O-GEMS

Applicant claims ownership of Registration No. 199,653.
For Candy.
Claims use since Feb. 4, 1952.

Ser. No. 626,127. Western Packing Company, Guadalupe, Calif. Filed Mar. 7, 1952.

MUSTANG

For Fresh Vegetables.
Claims use since Feb. 12, 1952.

Ser. No. 626,162. Gravymaster Company, Inc., Long Island City, N. Y. Filed Mar. 8, 1952.

GRAVYTONE

Applicant claims ownership of Registration No. 292,629.
For Concentrated Vegetable Preparation for Making Instant Consomme and Seasoning Gravies, Sauces, Soups, Soup-Stock, and Stews.
Claims use since June 30, 1931.

Ser. No. 626,163. The Great Atlantic and Pacific Tea Company, New York, N. Y. Filed Mar. 8, 1952. (Sec. 2f as to "Worthmore.")

Worthmore MOTHER GOOSE

The figures of the children are fanciful. Applicant claims ownership of Registrations Nos. 289,058 and 501,764.
For Candy.
Claims use since Feb. 14, 1952, on the mark as shown: and since June 1, 1931, as to "Worthmore."

Ser. No. 626,823. The Pilaf Company of California, Redwood City, Calif. Filed Mar. 21, 1952.

PILAFCO

For Processed Wheat, Grain Food.
Claims use since Mar. 7, 1952.

Ser. No. 626,865. Di Mare Bros., Boston and South Boston, Mass. Filed Mar. 22, 1952.

DI MARE'S
HOLIDAY

The word "Di Mare's" is disclaimed.
For Shelled and Unshelled Nuts as Follows: Filberts, Almonds, Brazils, Walnuts, Pecans, and Peanuts.
Claims use since on or about Aug. 1, 1944.

Ser. No. 626,980. Columbia River Packers Association, Inc., Astoria, Oreg. Filed Mar. 25, 1952.

PORTRAIT

Applicant claims ownership of Registration No. 108,987.
For Canned Shad.
Claims use since 1926.

Ser. No. 626,981. Columbia River Packers Association, Inc., Astoria, Oreg. Filed Mar. 25, 1952.

ESTABLISHED IN THE YEAR OF 1881

The words "Established in the Year of 1881" are disclaimed. Applicant claims ownership of Registration No. 108,987.
For Canned Shad.
Claims use since 1926.

Ser. No. 627,386. Golden Rich Foods, Inc., Joliet, Ill. Filed Apr. 1, 1952.

TOASTaRONI

The word "Toast" is disclaimed.
For Toasted Macaroni.
Claims use since Mar. 13, 1952.

Ser. No. 627,395. Milford Canning Company, Milford, Ill. Filed Apr. 1, 1952.

Hiawatha

"Hiawatha" is the name of the celebrated Indian chief and hero of Longfellow's poem "Hiawatha." Applicant claims ownership of Registration No. 36,833.
For Canned Vegetables.
Claims use since Mar. 6, 1901.

Ser. No. 627,638. The Oakford Company, Peoria, Ill. Filed Apr. 5, 1952.

COMPANION

The drawing is lined for red.
For Dog and Cat Food.
Claims use since Jan. 8, 1952.

Ser. No. 627,755. James Macchiaroli Fruit Co., Phoenix, Ariz. Filed Apr. 8, 1952.

Talk o' the West

The illustrations of the girls do not identify any particular living individuals.
For Fresh Citrus Fruits.
Claims use since Mar. 15, 1952.

Ser. No. 628,299. San Juan Fishing & Packing Co., Seattle, Wash. Filed Apr. 18, 1952. (Sec. 2f.)

RAINIER

Applicant claims ownership of Registrations Nos. 88,307 and 432,724.
For Frozen Fish, Frozen Fish Fillets, Smoked Fish, Salt Fish, Pickled Fish, Fresh Fish, Canned Fish, and Frozen Vegetables.
Claims use since May 1, 1899.

Ser. No. 628,864. Osceola Foods, Inc., Osceola, Ark. Filed Apr. 29, 1952.

CHARMAIN

For Oleomargarine.
Claims use since May 31, 1949.

Ser. No. 628,954. Osceola Foods, Inc., Osceola, Ark. Filed Apr. 30, 1952.

CHARMAIN

The portrait of the girl is fanciful. The drawing is lined for red and blue, but color is not claimed.
For Oleomargarine.
Claims use since May 31, 1949.

Ser. No. 629,129. Victor Slayman, Lindsay, Calif. Filed May 2, 1952.

SIS

For Fresh Deciduous Fruits, Fresh Citrus Fruits, Fresh Grapes, and Fresh Vegetables.
Claims use since Apr. 23, 1952.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 610,160. Associated Box Corporation, New Castle, Pa. Filed Feb. 16, 1951.

NESTEEL

For Pallets, Platforms, and Skids for Supporting Articles During Storage and Shipment.
Claims use since Dec. 1, 1950.

Ser. No. 618,951. Beeco, Inc., Chicago, Ill. Filed Sept. 19, 1951.

BEECO

For Glass Display Signs.
Claims use since Feb. 10, 1950.

Ser. No. 624,672. Arvey Corporation, Chicago, Ill. Filed Feb. 8, 1952.

VIMLITE

Applicant claims ownership of Registration No. 274,838.
For Reticular Metallic Base Covered With Cellulose-Derivative Film Used as a Substitute for Glass.
Claims use since Nov. 7, 1929.

Ser. No. 626,274. U. S. Manufacturing Corporation, Decatur, Ill. Filed Mar. 11, 1952. (Sec. 2f.)

KANTMAR

Applicant claims ownership of Registrations Nos. 294,571, 381,846, and 511,655.
For Fly Swatters.
Claims use since Jan. 2, 1929.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 614,089. Marcelle Cosmetics, Inc., Chicago, Ill. Filed May 19, 1951.

Marcelle

Applicant claims ownership of Registrations Nos. 127,809, 320,694, and 350,888.
For Face Powder With Sulfur, Talcum Powder With Sulfur, and Medicated Face Cream.
Claims use since Sept. 1, 1919.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 570,932. La Playa Products, Inc., New York, N. Y. Filed Dec. 18, 1948.

Colorvision

For Shampoo Preparation Which Colors and Blends the Hair as It Shampoos.
Claims use since on or about Nov. 9, 1948.

Ser. No. 578,591. E. A. Gerlach Company, Inc., Eddington, Pa. Filed May 11, 1949.

SPRUCE
KLEANER

The word "Kleaner" is disclaimed.
For Cleanser for Cleaning Porcelain, Tile, Terrazzo, Linoleum, Venetian Blinds, Silks, Nylon, Cotton, Wool, Rayon, Baby Diapers, Dishes, Pots, Pans, Glassware, Windows, and Automobiles.
Claims use since 1936.

Ser. No. 604,276. The Simoniz Company, Chicago, Ill., now by change of name Simoniz Company. Filed Sept. 30, 1950. (Sec. 2f.)

White Side

For Composition for Cleaning and Restoring the Color of White Sidewall Tires.
Claims use since July 1939.

Ser. No. 610,009. The Fry Brothers Co., Cincinnati, Ohio. Filed Feb. 13, 1951.

F. B. C.

For Dry Cleaning Detergent.
Claims use since Jan. 30, 1951.

Ser. No. 610,411. Colgate-Palmolive-Peet Company, Jersey City, N. J. Filed Feb. 23, 1951.

MONAD - G

Applicant claims ownership of Registration No. 36,560.
For Sudsing Cleaner, Cleanser, and Detergent.
Claims use since Dec. 19, 1950.

Ser. No. 611,963. National Industries Corporation, Newark, N. J. Filed Mar. 29, 1951.

NICO

For Janitors' Detergent Cleaners, Rug Shampoos, Soaps, Wax Removers, Liquid Soap, Mechanics' Hand Soap, Quaternary Ammonium Detergents, Surgical Hand Soaps, and Detergent Soaps.
Claims use since Aug. 3, 1949.

Ser. No. 614,884. Marlene's, Inc., Chicago, Ill. Filed June 7, 1951.

Marlene's

For Hair Waving Shampoo.
Claims use since Oct. 12, 1948.

Ser. No. 617,614. Firmenich Incorporated, New York, N. Y. Filed Aug. 13, 1951.

MELYSFLOR

For Synthetic and Natural Aromatic Chemicals and Essential Oils Used as Ingredients for Detergents and Soaps.
Claims use since Nov. 4, 1935.

Ser. No. 625,167. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

PHENOLA

For Soap.
Claims use since May 1, 1916.

Ser. No. 626,462. The Kenwill Corporation, Painesville, Ohio. Filed Mar. 14, 1952.

MAGI KLEEN

The word "Kleen" is disclaimed.
For Ointment for the Removal of Paint, Grime, Grease, Tar, and Similar Substances From the Hands.
Claims use since Jan. 17, 1952.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 599,026. Blanche D. Small, doing business as Mike Small, New York, N. Y. Filed June 13, 1950.

Mike Small ORIGINAL

The word "Original" is disclaimed.
For Creating and Making Up Fashion Patterns and Designs To Be Used by Others in the Manufacture of Wearing Apparel.
Claims use since June 1, 1950.

Ser. No. 613,179. McGuire Bros. Inc., Long Island City, N. Y. Filed Apr. 26, 1951.



The mark consists of a green stripe woven longitudinally through the fabric of a wiping towel.
For Rental of Towels for Industrial and Other Uses.
Claims use since September 1930.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 579,428. International Business Machines Corporation, New York, N. Y. Filed May 24, 1949.

IBM

For Services Comprising Analyzing Accounting and Statistical Problems of Governmental Agencies, Educational, Scientific, and Industrial Institutions and Creating Systems and Procedures for Solving Such Problems; Preparing Accounting, Statistical and Scientific Documents, Records, Reports; Conducting Surveys in the Fields of Accounting and Statistics; and Furnishing Equipment, Personnel, and Materials on a Free or Rental Basis in Connection With Any of Such Services.
Claims use since Nov. 9, 1935.

Ser. No. 600,288. Keystone Broadcasting System, Inc., Chicago, Ill. Filed July 6, 1950.

K
B
S

For Selling Advertising Time on Radio Broadcasting Stations Affiliated With the Applicant, Preparing or Having Prepared for, and/or Distributing to Said Stations for Broadcast Therefrom Programs in Behalf of Advertisers or for Sustaining Purposes, Preparing or Having Prepared for, and/or Distributing to Said Stations Transcriptions and/or Scripts for Use by Said Stations as Part of Said Programs.
Claims use since January 1940.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 606,321. Peoples First National Bank & Trust Company, Pittsburgh, Pa. Filed Nov. 13, 1950.

PEOPLE FIRST

The words "Think of" and "First" are disclaimed.
For General Banking and Trust Services—Namely, Making Commercial Loans, Issuing Letters of Credit, Acting as Stock Transfer Agent, and Acting as Trustee, or in Some Other Fiduciary Capacity, in the Administration of Trust Estates.
Claims use since July 1, 1946.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 615,638. Happy Felton Products, Inc., New York, N. Y. Filed June 25, 1951.

Happy Felton
and his
"Knot-hole Gang"

The name is that of Francis J. Felton, Jr., whose consent is of record. The words "Knot-Hole Gang" are disclaimed.
For Entertainment Services in the Nature of Baseball Playing Proficiency Contests for Amateurs Conducted Through the Medium of Radio and Television Programs.
Claims use since Apr. 1, 1950.

Ser. No. 616,659. Dalton Film Company, Tulsa, Okla. Filed July 19, 1951.

DALTON
OUTLAWS

The word "Dalton" is disclaimed.
For Leasing of Motion Picture Film To Be Used in Theaters, Television, Radio, and Stage Presentations.
Claims use since Dec. 18, 1950.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,724. Instruments for Measuring Electrical Resistances. Herman H. Sticht Company, Inc., New York, N. Y.
Filed Sept. 18, 1945, Serial No. 488,673. Published June 3, 1952. Class 26.

444,725. Insecticides. Bridgeport Brass Company, Bridgeport, Conn.
Filed May 6, 1946, Serial No. 501,494. Published July 15, 1952. Class 6.

444,726. Photographic Attachments and Photographic Accessories—Namely, Photoflash Equipment for Sale as a Unit Including Batteries for Photographic Purposes, Etc. The Kalart Company Inc., Stamford, Conn.
Filed Jan. 17, 1947, Serial No. 515,882. Published June 3, 1952. Class 26.

444,727. Popcorn, Candied. Manley, Inc., Kansas City, Mo.
Filed Jan. 23, 1947, Serial No. 516,204. Published Jan. 16, 1951. Class 46.

ACT OF 1946, PRINCIPAL REGISTER

565,437. Ready Mixed Paints, Paint Enamels, and Varnishes for Application to Interior Walls and Ceilings, Wallpaper, and Exterior Walls of Wood, Stucco, Brick, or Shingle. Plasti-Kote Inc., Cleveland, Ohio.
Original filed, act of 1920, Oct. 23, 1946; amended to application under act of 1946, Principal Register, Nov. 18, 1948, Serial No. 511,352. Published July 29, 1952. Class 16.

565,438. Interior and Exterior Paints for All Types of Surfaces and Sold in Powder, Paste, or Liquid Forms; Calcimines; Etc. Patek Brothers, Inc., Milwaukee, Wis.
Filed Aug. 6, 1947, Serial No. 530,677. Published June 24, 1952. Class 16.

565,439. Asphalt Base Paint for Use on All Types of Surfaces. Republic Paint & Varnish Co., Chicago, Ill.
Filed Nov. 12, 1947, Serial No. 540,886. Published July 22, 1952. Class 16.

565,440. Roof Coatings and Primer Composed of Asphalt and Asbestos Fibers Sold in Liquid Form Which May Be Applied by a Brush, and Roof Priming Paint To Be Used Before Application of Either Liquid or Plastic Roof Coating. Republic Paint & Varnish Co., Chicago, Ill.
Filed Nov. 12, 1947, Serial No. 540,895. Published July 1, 1952. Class 16.

565,441. Mixed Feed for Livestock and Poultry Consisting Principally of Wheat Bran and Wheat Red Dog. Standard Milling Company, Chicago, Ill.
Filed Dec. 30, 1947, Serial No. 545,785. Published July 29, 1952. Class 46.

565,442. Coffee. Baker Importing Co. Inc., New York, N. Y., formerly Baker Importing Company.
Filed Jan. 7, 1948, Serial No. 546,342. Published July 29, 1952. Class 46.

565,443. Deep Well Earth Core Drilling Bits and Core-Taking Equipment—Namely, Non-Retractable Core Barrels and Parts Thereof for Use With Deep Well Earth Core Drilling Bits. Reed Roller Bit Company, Houston, Tex.
Filed Jan. 7, 1948, Serial No. 546,426. Published June 10, 1952. Class 23.

565,444. Floor and Porch Enamel, 4-Hour Enamel, Barn Paint, Shingle Paint, High Gloss Finish Paint, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed Feb. 6, 1948, Serial No. 549,013. Published July 1, 1952. Class 4.

565,445. Group A—Furnaces (Gas, Coal, Wood, Oil Fired), Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed Feb. 24, 1948, Serial No. 550,451. Published Aug. 15, 1950. Class 34.

565,446. Oils Used for or as an Ingredient in Mixtures or Compounds for Paints. Sinclair Refining Company, New York, N. Y.
Filed Mar. 5, 1948, Serial No. 551,322. Published July 29, 1952. Class 16.

565,447. Musical Instruments — Namely, Woodwinds, Brass Instruments, Saxophones, and Parts Therefor. Elmer Beechler, doing business as Remle, Hollywood, Calif.
Filed Mar. 12, 1948, Serial No. 551,758. Published June 17, 1952. Class 36.

565,448. Women's Hosiery. Harry Aust, doing business under the name and style Welmaid Hosiery Co., Philadelphia, Pa.
Filed Mar. 18, 1948, Serial No. 552,208. Published May 23, 1950. Class 39.

565,449. Phonograph Records With Messages Recorded Thereon. Wilcox-Gay Corporation, Charlotte, Mich.
Filed Nov. 18, 1947, Serial No. 552,528. Published July 29, 1952. Class 36.

565,450. Metal and Wood Paints, Paint Enamels, Lacquers, Paint Primers, Reducers, and Thinners for Use in Paints. Wright Sales Company, Inc., Cleveland, Ohio.
Filed Apr. 5, 1948, Serial No. 553,939. Published July 1, 1952. Class 16.

565,451. Luncheon Relish Consisting of a Combination of Sweet Pickle Relish and Mustard Sauce, Etc. The Manhattan Pickle Company, Chicago, Ill.
Filed July 3, 1948, Serial No. 560,715. Published July 29, 1952. Class 46.

565,452. Partially Prepared Tomato, Onion, Potato, and Cheese Puffs. Kracketts Company, Richardson, Tex.
Filed July 12, 1948, Serial No. 561,196. Published Aug. 1, 1950. Class 46.

565,453. Partially Prepared Tomato, Onion, Potato, and Cheese Puffs. Kracketts Company, Richardson, Tex.
Filed July 12, 1948, Serial No. 561,197. Published July 25, 1950. Class 46.

565,454. Candy. E. J. Brach & Sons, Chicago, Ill.
Filed July 21, 1948, Serial No. 561,799. Published July 29, 1952. Class 46.

565,455. Powdered, Flaked, and Paste Wax and Self-Polishing Liquid Wax for Polishing and Conditioning Dance and Ballroom Floors. Sterling Jones Laboratories, doing business as R. A. Myers & Company, St. Paul, Minn.
Filed Aug. 2, 1948, Serial No. 562,641. Published June 24, 1952. Class 4.

565,456. Stringed and Fretted Instruments—Namely, Guitars; Ukuleles; Mandolins; Etc. J. M. Sahlein, trading as J. M. Sahlein Music Company, San Francisco, Calif.
Filed Aug. 6, 1948, Serial No. 562,961. Published July 29, 1952. Class 36.

565,457. Dishes, Trays, and Empty Jewelry Boxes All Made From Resinous Plastic Materials. Ivorex Plastics, New York, N. Y.
Filed Aug. 26, 1948, Serial No. 564,200. Published July 29, 1952. Class 2.

565,458. Self-Polishing Liquid Wax for Linoleum, Tile, Terrazzo, Wood, Asphaltic and Composition Floors. Hillyard Chemical Company, St. Joseph, Mo.
Filed Sept. 13, 1948, Serial No. 565,053. Published June 24, 1952. Class 4.

565,459. Soap. Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Nov. 3, 1948, Serial No. 568,097. Published Aug. 5, 1952. Class 52.

565,460. Penicillin Vaginal Suppositories. Schenley Laboratories, Inc., New York, N. Y.
Filed Nov. 9, 1948, Serial No. 568,453. Published Feb. 28, 1950. Class 18.

565,461. Popped and Buttered Popcorn, and for Salt Sold for Use on Popcorn. Manley, Inc., Kansas City, Mo.
Filed Nov. 20, 1948, Serial No. 569,386. Published July 10, 1951. Class 46.

565,462. Tool Boxes, Tool Chests, Oil Cans, Drill Cases and Stands for Holding Drills, Hose Reels, All Sold Empty in the Trade. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 16, 1948, Serial No. 570,647. Published July 29, 1952. Class 2.

565,463. Tree-Wound Dressing Containing Asphalt and Waterproofer. The Davey Tree Expert Company, Kent, Ohio.
Filed Oct. 14, 1948, Serial No. 570,740. Published July 8, 1952. Class 16.

565,464. Sectional Refractory Furnace Casings, Particularly Used for Converting Coal Furnaces to Oil Furnaces. Russell C. Eisentrager, trading under the name Monogram Products Co., Philadelphia, Pa.
Filed Dec. 20, 1948, Serial No. 570,839. Published June 24, 1952. Class 34.

565,465. Varnish Stains; Wood Stains; Oil Stains; Paint Fillers; Etc. R. M. Hollingshead Corporation, Camden, N. J.
Filed Mar. 2, 1949, Serial No. 574,772. Published July 29, 1952. Class 16.

565,466. Technical, Industrial, and House Paints, Enamels; Paint, Enamel, and Lacquer Primers, Thinners and Solvent Thinners; and Liquid or Liquefiable Bituminous Mastic Coatings Suitable for Brushing or Spraying. Koppers Company, Inc., Pittsburgh, Pa.
Filed Mar. 31, 1949, Serial No. 576,413. Published July 29, 1952. Class 16.

565,467. Pianos. Kranich & Bach, New York, N. Y.
Filed Apr. 12, 1949, Serial No. 576,974. Published June 17, 1952. Class 36.

565,468. Liquid Floor Cleaner, White Tire Cleaner, and a Combination Penetrating Floor Cleaner and Grease Solvent. L. M. Brownsey, doing business as L. M. Brownsey Supply Co., Chicago, Ill.
Filed Apr. 19, 1949, Serial No. 577,366. Published Mar. 25, 1952. Class 52.

565,469. Grooved Phonograph Records. Hymie Wolf, doing business as Wolf Recording Co., San Antonio, Tex.
Filed Apr. 27, 1949, Serial No. 577,837. Published July 15, 1952. Class 36.

565,470. Ladies' Hosiery. Laros Textiles Company, Bethlehem, Pa.
Filed Apr. 30, 1949, Serial No. 578,030. Published July 29, 1952. Class 39.

565,471. Varnish Stain, Enamels. Adelphi Paint & Color Works, Inc., Ozone Park, N. Y.
Filed May 7, 1949, Serial No. 578,360. Published May 27, 1952. Class 16.

565,472. Clothes Hampers. Gleitsman's, Inc., Long Island City, N. Y.
Filed May 12, 1949, Serial No. 578,686. Published July 29, 1952. Class 2.

565,473. Earth Drilling Machines—Namely, Slim Hole Drilling Rigs, Exploration Drilling Rigs, Core Drilling Rigs, Seismograph Shot Hole Drilling Rigs, and Water Well Drilling Rigs; and Drilling Bits for Such Machines. George E. Failing Supply Company, Enid, Okla.
Filed May 14, 1949, Serial No. 578,873. Published June 17, 1952. Class 23.

565,474. Automatic Stock Feeder for Use on Punch Presses and the Like. Parker-Bailey Manufacturing Company, Cromwell, Conn.
Filed May 18, 1949, Serial No. 579,052. Published Jan. 16, 1951. Class 23.

565,475. Concentrated Vitamin Animal Feed Supplement. Nutrition Products, Inc., Cleveland, Ohio.
Filed June 27, 1949, Serial No. 581,141. Published June 24, 1952. Class 18.

565,476. Metal Tanks Used in Processing, Treatment, and/or Production Methods by Chemical, Pharmaceutical, Dairy, Plating, Dye, and Leather Industries. Metal-Glass Products Co., Belding, Mich.
Filed July 20, 1949, Serial No. 582,235. Published July 29, 1952. Class 2.

565,477. Brushes for Painters and Decorators. Solo-Horton Brush Company, Incorporated, New York, N. Y.
Filed Aug. 12, 1949, Serial No. 583,413. Published July 1, 1952. Class 29.

565,478. Medicinal Preparation Containing Vitamins and Minerals. J. B. Roerig and Company, Chicago, Ill.
Filed Sept. 1, 1949, Serial No. 584,349. Published Aug. 5, 1952. Class 18.

565,479. Medicinal Preparation To Be Applied Externally, Etc. Bengue Inc., Union City, N. J.
Filed Sept. 17, 1949, Serial No. 584,962. Published June 24, 1952. Class 18.

565,480. Rock Crushers. Lippmann Engineering Works, Milwaukee, Wis.
Filed Aug. 6, 1949, Serial No. 585,884. Published July 22, 1952. Class 23.

565,481. Controlling Mechanisms for Automobile Lifts—Namely, a Hydraulic Valve Mechanism and a Manually Operated Lever or Stick for Operating Said Valve Mechanism. The Joyce-Cridland Co., Dayton, Ohio.
Filed Oct. 7, 1949, Serial No. 585,940. Published July 22, 1952. Class 13.

565,482. Caulking Material Used for Filling Cracks or Openings in Construction Joints. Paul J. Becker, Stone Lake, Wis.
Filed Oct. 17, 1949, Serial No. 586,390. Published July 1, 1952. Class 12.

565,483. Women's and Misses' Wearing Apparel—Namely, Coats, Etc. Aldens, Inc., Chicago, Ill.
Filed Oct. 18, 1949, Serial No. 586,450. Published Dec. 26, 1950. Class 39.

565,484. Concrete Curing Compound. S. P. Lyons Co., Los Angeles, Calif.
Filed Nov. 4, 1949, Serial No. 587,338. Published July 8, 1952. Class 6.

565,485. Chemical Specialty Compound for Addition to Printers' Inks To Prevent Offsetting and Sticking. Wunder Chemical Company, New York, N. Y.
Filed Nov. 14, 1949, Serial No. 587,777. Published July 1, 1952. Class 11.

565,486. Chemical Specialty Compound for Addition to Printers' Inks To Prevent Crystallization and Offsetting. Wunder Chemical Company, New York, N. Y.
Filed Nov. 14, 1949, Serial No. 587,778. Published July 1, 1952. Class 11.

565,487. Paint Enamels. McDougall-Butler Co., Inc., Buffalo, N. Y.
Filed Nov. 29, 1949, Serial No. 588,502. Published July 1, 1952. Class 16.

565,488. Asthma Inhalant. Riddell Products Limited, London, England.
Filed Dec. 5, 1949, Serial No. 588,810. Published June 24, 1952. Class 18.

565,489. Cardboard and Paper Boxes, Cases, Trays, and Shipping Cartons. Maryland Paper Box Company, Baltimore, Md.
Filed Dec. 20, 1949, Serial No. 589,664. Published July 29, 1952. Class 2.

565,490. Ladies' Apparel—Namely, Slack Suits and Slacks. Benson Modes, Inc., New York, N. Y.
Filed Dec. 22, 1949, Serial No. 589,763. Published July 29, 1952. Class 39.

565,491. Electrically Operated ½ Ton, ¾ Horsepower Unit Air Conditioners for Household Use. Goldblatt Bros. Inc., Chicago, Ill.
Filed Dec. 23, 1949, Serial No. 589,847. Published Feb. 27, 1951. Class 34.

565,492. Ready-Mixed Chrome Finish Aluminum Paint. Universal Paint & Varnish Company, Huntington Park, Calif.
Filed Jan. 10, 1950, Serial No. 590,628. Published July 1, 1952. Class 16.

565,493. Sterilized Cream Packed Under Pressure. Avoset Company, San Francisco, Calif.
Filed Jan. 23, 1950, Serial No. 591,274. Published July 29, 1952. Class 46.

565,494. Ceramic Wall and Floor Tile. Gladding, McBean & Co., Los Angeles, Calif.
Filed Jan. 27, 1950, Serial No. 591,569. Published July 1, 1952. Class 12.

565,495. Exothermic Reaction Apparatus for Producing a Protective Atmosphere Gas From Fuel Gases. General Electric Company, Schenectady, N. Y.
Filed Feb. 1, 1950, Serial No. 591,777. Published July 15, 1952. Class 34.

565,496. Gas Making Machines for Making Gas From Liquid Fuel for Heating and Lighting Purposes, Burners for the Gas Produced by Such Machines and Aspirating Valves Sold as a Part of Such Machines for Blending Gas Therefrom With Air for Said Purposes. Tirrill Gas Machine Corporation, Dover, Del., and Netcong, N. J.
Filed Feb. 4, 1950, Serial No. 592,008. Published July 8, 1952. Class 34.

565,497. Antispasmodic and Cardiovascular Preparation. The Smith-Dorsey Company, Lincoln, Nebr.
Filed Feb. 14, 1950, Serial No. 592,445. Published July 15, 1952. Class 18.

565,498. Gas Generators, Regenerators, Coke Ovens, and Devolatilization Chambers for Producing Half Coke. "Compagnie Pan-Europeenne d'Installations et d'Equipement Industriels" S. A. R. L., Paris (Seine), France.
Priority under Sec. 44(d). French Registration No. 396,274, filed Aug. 22, 1949.
Filed Feb. 16, 1950, Serial No. 592,549. Published June 24, 1952. Class 34.

565,499. Lipstick and Nail Lacquer. Chen Yu, Inc., New York, N. Y., assignor to Richard Hudnut, New York, N. Y., a corporation of New York.
Filed Feb. 24, 1950, Serial No. 592,979. Published June 10, 1952. Class 51.

565,500. Dietary Supplement To Be Taken Orally, Consisting of Tablets, Lozenges, and Capsules Containing Vitamins and Minerals. Glamour Products Company, Los Angeles, Calif.
Filed Mar. 14, 1950, Serial No. 593,917. Published July 17, 1951. Class 18.

565,501. Non-Woven Fabrics Made From Natural Textile Fibers, Etc. The Kendall Company, Walpole, Mass.
Filed Mar. 15, 1950, Serial No. 593,990. Published July 29, 1952. Class 42.

565,502. Gloves and Mittens Made of Leather or Fabric or a Combination Thereof. The Boss Manufacturing Company, Kewanee, Ill.
Filed Mar. 21, 1950, Serial No. 594,305. Published July 29, 1952. Class 39.

565,503. Chemical Substances Prepared for Use in Medicine and Pharmacy, Etc. Imperial Chemical Industries Limited, London and Millbank, London, England.
Filed Mar. 28, 1950, Serial No. 594,785. Published June 24, 1952. Class 18.

565,504. Ladies' Brassière Top Slips, Brassière Top Bathing Suits, and Dresses. Toni Lee, Ltd., New York, N. Y.
Filed Apr. 11, 1950, Serial No. 595,546. Published July 29, 1952. Class 39.

565,505. Outside and Inside Paints, Wood Stains, Primers and Sealers of the Paint Type, Enamels, Varnishes, Driers of the Paint Type, Paint-Like Metal Coatings, Colors in Oil of the Paint Type, Wood Fillers of the Paint Type, Paint and Varnish Removers, Paint Thinners, Shellac, Roof Paint Coating. American Seal Paint Mfg. Co., Inc., Troy, N. Y.
Filed Apr. 13, 1950, Serial No. 595,646. Published July 1, 1952. Class 52.

565,506. Apparatus for Permanent Waving of the Hair—Namely, Dryers, Permanent Waving Machines, and Machineless Permanent Wave Pads. Société Anonyme: Societe Gallia, Paris, France.
Filed Apr. 13, 1950, Serial No. 595,685. Published July 29, 1952. Class 44.

565,507. Pigmented Seal Penetrant and Coating Composition for Finishing Floors. E. L. Bruce Co., Memphis, Tenn.
Filed Apr. 17, 1950, Serial No. 595,820. Published July 29, 1952. Class 16.

565,508. Capsulated Vitamin Preparations for Human and Other Animal Use, Including Single Vitamin, Multi-Vitamin, and Vitamin and Mineral Preparations; Capsulated Drugs and Medicinal Preparations, Etc. R. P. Scherer Corporation, Detroit, Mich.
Filed Apr. 19, 1950, Serial No. 595,986. Published June 24, 1952. Class 18.

565,509. Air Dehumidifying Units Used in Electrically Operated Air Conditioners. Mitchell Manufacturing Company, Chicago Ill.
Filed Apr. 22, 1950, Serial No. 596,174. Published June 24, 1952. Class 34.

565,510. Louvre Grilles Used in Electrically Operated Air Conditioners. Mitchell Manufacturing Company, Chicago, Ill.
Filed Apr. 22, 1950, Serial No. 596,176. Published July 1, 1952. Class 34.

565,511. Grooved Phonograph Records. Harold E. Whittet, South St. Paul, Minn.
Filed Apr. 29, 1950, Serial No. 596,636. Published Jan. 1, 1952. Class 36.

565,512. High Viscosity Coating Compound of Pigment and Vehicle for Use in the Graphic Arts Process Called Silk Screening. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed May 11, 1950, Serial No. 597,284. Published July 22, 1952. Class 16.

565,513. Wood Protection Composition To Be Used as a Paint Designed To Produce a Heat Resistant Coating. Union Engineering, Inc., Los Angeles, Calif.
Filed May 16, 1950, Serial No. 597,555. Published July 29, 1952. Class 16.

565,514. Medicinal Mouth Washes, Medicinal Foot Lotions, Germicides, and Vitamin Tablets. Stanley Home Products, Inc., Westfield, Mass.
Filed May 19, 1950, Serial No. 597,791. Published July 15, 1952. Class 18.

565,515. Steam and Hot Water Heating Elements; Exhaust Fans; Etc. The New York Blower Company, Chicago, Ill.
Filed May 26, 1950, Serial No. 598,200. Published July 1, 1952. Class 34.

565,516. Ready Mixed Paints. International Paint Company, Inc., New York, N. Y.
Filed May 31, 1950, Serial No. 598,366. Published July 1 1952. Class 16.

565,517. General Line of Paints and Paint Products—Namely, Paste and Ready-Mixed Paints; Etc. Yarnall Paint Company, Philadelphia, Pa.
Filed June 1, 1950, Serial No. 599,055. Published July 1, 1952. Class 16.

565,518. Hosiery for Infants, Misses, Boys, and Ladies. Belle Meade Hosiery Mills, Inc., Nashville, Tenn.
Filed June 15, 1950, Serial No. 599,146. Published July 29, 1952. Class 39.

565,519. Tempera Show Card Paint Colors. Binney & Smith Company, New York, N. Y.
Filed June 15, 1950, Serial No. 599,149. Published July 1, 1952. Class 16.

565,520. Water Color Paints and Compact Paint Colors. Binney & Smith Company, New York, N. Y.
Filed June 15, 1950, Serial No. 599,151. Published July 1, 1952. Class 16.

565,521. Powder Paint. Binney & Smith Company, New York, N. Y.
Filed June 16, 1950, Serial No. 599,224. Published July 1, 1952. Class 16.

565,522. Carboxy Methyl Cellulose Sold in Capsule Form as a Bulk Laxative. The Stuart Company, Pasadena, Calif.
Filed June 29, 1950, Serial No. 599,989. Published June 24, 1952. Class 18.

565,523. Cleaning Agent, Useful for Example in Mechanical Washers To Remove Oils, Metallic Oxides, and Insoluble Residues From Metal Production Parts, Such as Lapped Parts, Etc. Chester Whitfield Smith, doing business under the name and style of Whitfield Chemical Company, Detroit, Mich.
Filed July 29, 1950, Serial No. 601,479. Published July 29, 1952. Class 52.

565,524. Hosiery Machine Thread Carriers. Quick Change Carriers, Inc., Lansdale, Pa.
Filed Aug. 10, 1950, Serial No. 602,065. Published July 22, 1952. Class 23.

565,525. Vitamin Mixes To Be Used in Animal Food and Feed. Anderson, Clayton & Co., Houston, Tex.
Filed Aug. 21, 1950, Serial No. 602,483. Published June 24, 1952. Class 18.

565,526. Bituminous Paints, Ready-Mixed Paints, Oils for Use as Solvents and Thinners in Paints, Lacquers, Stains, Varnishes, and Enamels; Resins for Use in Paints, Lacquers, Stains, Varnishes, and Enamels. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Aug. 29, 1950, Serial No. 602,876. Published July 29, 1952. Class 16.

565,527. Clocks. Kalex Corporation, New York, N. Y.
Filed Sept. 8, 1950, Serial No. 603,297. Published June 17, 1952. Class 27.

565,528. Hair Dressing. Keystone Laboratories, Inc., Memphis, Tenn.
Filed Sept. 20, 1950, Serial No. 603,795. Published June 17, 1952. Class 51.

565,529. Extract Used as a Medicine Tonic for Human Use. Kegan Laboratory, Inc., Englewood, N. J.
Filed Sept. 23, 1950, Serial No. 603,931. Published June 24, 1952. Class 18.

565,530. Capsule and Liquid Preparation for the Treatment of Arteriosclerosis, Atherosclerosis, and Hepatic Cirrhosis. The Vale Chemical Company, Inc., Allentown, Pa.
Filed Sept. 27, 1950, Serial No. 604,113. Published June 24, 1952. Class 18.

565,531. Vitamin Capsules. Babbitt's Cut Rate Stores, Inc., Washington, D. C.
Filed Sept. 28, 1950, Serial No. 604,137. Published June 24, 1952. Class 18.

565,532. Ready Mixed Industrial Baking Enamels. Ferro Enamel Corporation, Cleveland, Ohio, now by change of name Ferro Corporation.
Filed Oct. 3, 1950, Serial No. 604,361. Published July 29, 1952. Class 16.

565,533. Ready-Mixed Oil Paints and Varnishes for Staining and Finishing Woodwork. International Paint Company, Inc., New York, N. Y.
Filed Oct. 5, 1950, Serial No. 604,479. Published July 1, 1952. Class 16.

565,534. Floor and Linoleum Varnish, Spar Varnish, Exterior House Paint, Exterior Trim Colors, and Exterior One-Coat Enamel. F. W. Woolworth Co., New York, N. Y.
Filed Oct. 16, 1950, Serial No. 605,000. Published June 24, 1952. Class 16.

565,535. Floor and Linoleum Varnish, Spar Varnish, Exterior House Paint, Exterior Trim Colors, and Exterior One-Coat Enamel. F. W. Woolworth Co., New York, N. Y.
Filed Oct. 16, 1950, Serial No. 605,001. Published July 1, 1952. Class 16.

565,536. Expectorant and Preparation for Coughs. Geigy Company, Inc., New York, N. Y.
Filed Oct. 19, 1950, Serial No. 605,155. Published June 24, 1952. Class 18.

565,537. Resin Solutions Used as Surface Coatings for Protective and Decorative Purposes. U. S. Industrial Chemicals, Inc., New York, N. Y., assignor to National Distillers Products Corporation, New York, N. Y., a corporation of Virginia.
Filed Oct. 19, 1950, Serial No. 605,181. Published July 29, 1952. Class 16.

565,538. Jewelry for Personal Wear, Not Including Watches—Namely, Watch Bracelets, Etc. Forstner Chain Corporation, Irvington, N. J.
Filed Oct. 20, 1950, Serial No. 605,207. Published July 8, 1952. Class 28.

565,539. Oils and Greases and Lubricants, All for Preventing Adhesion of Rubber and Similar Materials to Metal. T. R. Parry & Company Limited, London, England
Filed Oct. 20, 1950, Serial No. 605,227. Published June 3, 1952. Class 15.

565,540. Pharmaceutical Preparation To Be Used as a Laxative. Consolidated Royal Chemical Corporation, Chicago, Ill.
Filed Oct. 21, 1950, Serial No. 605,251. Published June 24, 1952. Class 18.

565,541. Waterproof Coating for Concrete and Masonry Surfaces. Service Industries (a Trust), Philadelphia, Pa.
Filed Oct. 24, 1950, Serial No. 605,374. Published July 29, 1952. Class 16.

565,542. Wall Finishes—Namely, Paints, Paint Enamels, and Paint Primers. De Soto Paint & Varnish Co., Memphis, Tenn.
Filed Oct. 31, 1950, Serial No. 605,645. Published July 29, 1952. Class 16.

565,543. Bags Made of Flexible Materials. American Bag & Paper Corporation, Philadelphia, Pa.
Filed Nov. 1, 1950, Serial No. 605,706. Published July 29, 1952. Class 2.

565,544. Floor Mops. The New York Association for the Blind, Inc., New York, N. Y.
Filed Nov. 7, 1950, Serial No. 606,036. Published Aug. 5, 1952. Class 29.

565,545. Medicinal Preparations for Use in the Treatment of Indigestion, Acidity, and Similar Digestive Ailments. E. Griffiths Hughes, Limited, Manchester, England.
Filed Nov. 15, 1950, Serial No. 606,424. Published June 24, 1952. Class 18.

565,546. Ready-Mixed Paints. The Patterson-Sargent Company, Cleveland, Ohio.
Filed Nov. 24, 1950, Serial No. 606,896. Published July 29, 1952. Class 16.

565,547. Woven Textile Fabrics Made of Linen, of Linen Mixed With Synthetic Fibres, and of Linen and Cotton. Etablissements Veuve Louis Tant, Roulers, Belgium.
Priority under Sec. 44(d). Belgian Registration No. 2,414, filed Sept. 29, 1950.
Filed Nov. 28, 1950, Serial No. 607,010. Published July 29, 1952. Class 42.

565,548. Ready Mixed Paints. General Paint Corporation, San Francisco, Calif.
Filed Nov. 28, 1950, Serial No. 607,014. Published July 1, 1952. Class 16.

565,549. Piece Goods of Cotton, Wool, and Synthetic Fibers. William Heller, Incorporated, New York, N. Y.
Filed Nov. 28, 1950, Serial No. 607,020. Published Mar. 11, 1952. Class 42.

565,550. Metal Ware—Namely, Dust Pans, Serving Trays, Etc. Harper J. Ransburg Co., Inc., Indianapolis, Ind.
Filed Dec. 2, 1950, Serial No. 607,235. Published July 22, 1952. Class 13.

565,551. Cough Syrup Sold as an Exempt Narcotic Containing Codeine. The Norwich Pharmacal Company, Norwich, N. Y., assignor to Eaton Laboratories, Inc., Norwich, N. Y., a corporation of New York.
Filed Dec. 7, 1950, Serial No. 607,392. Published June 24, 1952. Class 18.

565,552. Sudsing Cleaner, Cleanser, and Detergent. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Dec. 14, 1950, Serial No. 607,681. Published July 29, 1952. Class 52.

565,553. Grooved Phonograph Records for Use With Mechanical and Electrical Sound Reproducing Machines. Juan Martinez Vela, Inc., doing business as Porto Rico Record and Manufacturing Co., San Juan, P. R.
Filed Dec. 26, 1950, Serial No. 608,093. Published July 15, 1952. Class 36.

565,554. Paper Envelopes for Phonograph Records. Cohoes Envelope Company, Inc., Cohoes, N. Y.
Filed Dec. 26, 1950, Serial No. 608,189. Published June 17, 1952. Class 36.

565,555. Cleaning Pads Used To Apply Cleaning Fluid to Clothing for the Purpose of Removing Spots and Stains Therefrom. Helen Smith McClure, New York, N. Y.
Filed Jan. 9, 1951, Serial No. 608,560. Published Aug. 5, 1952. Class 29.

565,556. Dyes, Dyestuffs, Organic Pigments, Etc. Naphtol-Chemie Offenbach, Offenbach on the Main, Germany.
Filed Jan. 11, 1951, Serial No. 608,664. Published July 1, 1952. Class 6.

565,557. Rectal Suppository. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Jan. 24, 1951, Serial No. 609,207. Published June 24, 1952. Class 18.

565,558. Infants', Children's, and Juvenile Sportswear—Namely, Shirts, Trousers, Ties, Jackets, Hats, Coats, Suits, Etc. Penny Manufacturing Corp., Boston, Mass.
Filed Jan. 25, 1951, Serial No. 609,259. Published July 29, 1952. Class 39.

565,559. Medicinal Tablet To Arrest the Desire of Smoking. Arrestine Company, Inc., Birmingham, Ala.
Filed Jan. 29, 1951, Serial No. 609,352. Published Aug. 5, 1952. Class 18.

565,560. Toilet Soap, Soap Flakes, Window Cleaner, Toilet Bowl Cleaner, Scouring Powder, Sweeping Compound, Dishwashing Powder, Ammonia, Lye, and Sal Soda Used as Cleansing Agents. Consolidated Grocers Corporation, Chicago, Ill.
Filed Feb. 1, 1951, Serial No. 609,477. Published July 15, 1952. Class 52.

565,561. Grooved Phonograph Records. May MacGregor, New York, N. Y.
Filed Feb. 3, 1951, Serial No. 609,595. Published June 17, 1952. Class 36.

565,562. Hammer-Mills, Hammer Crushers, Bradford Breakers, Single-Roll Crushers, Jaw Crushers, Gyratory Crushers, Granulators, Feed Mills, Reciprocating Feeders, Retarding and Distributing Feeders, and Dividing and Proportioning Hoppers. Pennsylvania Crusher Company, Philadelphia, Pa.
Filed Feb. 3, 1951, Serial No. 609,602. Published July 15, 1952. Class 23.

565,563. Infants' Sleeping Bags. Anna M. Lannoy, Chicago, Ill.
Filed Feb. 9, 1951, Serial No. 609,865. Published July 29, 1952. Class 39.

565,564. Grooved Phonograph Records. Norcon, Incorporated, Norwalk, Conn.
Filed Feb. 10, 1951, Serial No. 609,942. Published June 17, 1952. Class 36.

565,565. Pharmaceutical Preparations for the Treatment of Vaginal Diseases. Ciba Limited, Basel, Switzerland.
Filed Feb. 12, 1951, Serial No. 609,962. Published June 24, 1952. Class 18.

565,566. Ball and Socket Type Chains of Any Length and Key Chains, the Ball of Said Chains Having a Diameter of the Order of About $\frac{5}{32}$ to $\frac{3}{8}$ of an Inch. The Bead Chain Manufacturing Company, Bridgeport, Conn.
Filed Feb. 15, 1951, Serial No. 610,116. Published July 29, 1952. Class 13.

565,567. Back Rip Scarifiers—Namely, Back Rippers, and Parts Thereof, for Bulldozers. Preco Incorporated, Los Angeles, Calif.
Filed Feb. 17, 1951, Serial No. 610,228. Published June 24, 1952. Class 23.

565,568. Vegetable Derivative Adhesive for Combining Plies of Paper and Other Articles. A. E. Staley Manufacturing Company, Decatur, Ill.
Filed Feb. 17, 1951, Serial No. 610,235. Published July 29, 1952. Class 5.

565,569. Vitamins and Minerals in Combined Dosage Form for Use in the Treatment of Human Beings. Ives-Cameron Company, Inc., New York, N. Y.
Filed Feb. 20, 1951, Serial No. 610,322. Published Aug. 5, 1952. Class 18.

565,570. Antibacterial Preparation for Veterinary Use in the Treatment of Retained Placenta, Metritis, and Pyrometra. E. R. Squibb & Sons, New York, N. Y.
Filed Feb. 21, 1951, Serial No. 610,387. Published June 24, 1952. Class 18.

565,571. Pharmaceutical Preparation for Use as a Multivitamin Nutritional Supplement. Charles E. Frosst & Co., Montreal, Quebec, Canada.
Priority under Sec. 44(d). Canadian Registration No. 37,232, filed Nov. 28, 1950.
Filed Feb. 23, 1951, Serial No. 610,435. Published Aug. 5, 1952. Class 18.

565,572. Therapeutic Product for the Treatment of Over Fatigue, Anaemia, Nervous Depression, Mental and Physical Exhaustion. Research Laboratories Center, Inc., New York, N. Y.
Filed Feb. 27, 1951, Serial No. 610,585. Published June 24, 1952. Class 18.

565,573. Germicidal Detergent, Cleaner, and Disinfectant for Washing and Sanitizing Dishes and Army Mess Kits for Restaurant Use. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 2, 1951, Serial No. 610,770. Published July 15, 1952. Class 52.

565,574. Paint-Like Primer for Use by Itself To Prevent Rust or for Use as a Primer Under Paint. Black Lead, Inc., Winnetka, Ill.
Filed Mar. 7, 1951, Serial No. 610,953. Published July 1, 1952. Class 16.

565,575. Flat Glass. Blue Ridge Glass Corporation, Kingsport, Tenn.
Filed Mar. 9, 1951, Serial No. 611,074. Published July 8, 1952. Class 33.

565,576. Silverware—Namely, Hollowware and Flatware. Frederick E. Weidlich, White Plains, N. Y., assignor to William E. Bass and Samuel Hoffman, both of Philadelphia, Pa., trading as Web Jewelry Manufacturing Company.
Filed Mar. 9, 1951, Serial No. 611,115. Published July 8, 1952. Class 28.

565,577. Medicinal Preparation Containing Sodium Para-Amino-Salicylate. Laboratoires Francais de Chimiotherapie, Paris, France.
Filed Mar. 14, 1951, Serial No. 611,282. Published Nov. 6, 1951. Class 18.

565,578. Individually Carded Cultured Pearls and Cultured Pearl Necklaces. Byard F. Brogan, Philadelphia, Pa.
Filed Mar. 15, 1951, Serial No. 611,337. Published July 8, 1952. Class 28.

565,579. Combination of Pure Crystalline Hormones for Internal Administration. Schering Corporation, Bloomfield, N. J.
Filed Mar. 15, 1951, Serial No. 611,372. Published June 24, 1952. Class 18.

565,580. Carbon Paper and Typewriter Ribbons. American Carbon Paper Mfg. Company, Ennis, Tex.
Filed Mar. 16, 1951, Serial No. 611,397. Published June 24, 1952. Class 11.

565,581. Shaped and Multi-Colored Plastic Sprinkles, Particularly Used for Evening Wear on the Hair and Eye Lids. Elizabeth Arden Sales Corporation, New York, N. Y.
Filed Mar. 23, 1951, Serial No. 611,677. Published July 8, 1952. Class 51.

565,582. Canned Peas. Green Giant Company, Le Sueur, Minn.
Filed Mar. 26, 1951, Serial No. 611,779. Published July 29, 1952. Class 46.

565,583. Oil-Fired Water Heaters. Platt Products Corporation, Lansing, Mich.
Filed Mar. 26, 1951, Serial No. 611,806. Published June 24, 1952. Class 34.

565,584. Sedative. Dexter Laboratories, New York, N. Y.
Filed Mar. 29, 1951, Serial No. 611,946. Published July 8, 1952. Class 18.

565,585. Rice. Rice Growers Association of California, Sacramento, Calif.
Filed Mar. 30, 1951, Serial No. 612,034. Published July 29, 1952. Class 46.

565,586. Candy. Geo. Bassett & Company Limited, Sheffield, England.
Filed Apr. 5, 1951, Serial No. 612,236. Published July 29, 1952. Class 46.

565,587. Hand-Loomed Cotton Rugs. Topton Rug Manufacturing Co., Mertztown, Pa.
Filed Apr. 5, 1951, Serial No. 612,285. Published July 29, 1952. Class 42.

565,588. Mops and Mop Heads for Use in Applying Roofing Compositions. David Levow, New York, N. Y.
Filed Apr. 11, 1951, Serial No. 612,501. Published July 1, 1952. Class 29.

565,589. Knitted Fabric Composed of Wool and Synthetic Fibers. Jantzen Knitting Mills Inc., Portland, Oreg.
Filed Apr. 16, 1951, Serial No. 612,694. Published July 29, 1952. Class 42.

565,590. Paints and Coating Compositions Adapted for the Coating of Metals and Other Surfaces, Etc. Pittsburgh Coke & Chemical Company, Pittsburgh, Pa.
Filed Apr. 16, 1951, Serial No. 612,703. Published July 29, 1952. Class 16.

565,591. Shipping Cartons—Namely, Thermally Insulated Corrugated Paper Cartons. Owens-Corning Fiberglas Corporation, Toledo, Ohio.
Filed Apr. 17, 1951, Serial No. 612,757. Published July 22, 1952. Class 2.

565,592. Candy. De Witt P. Henry Co., Inc., sometimes doing business as De Witt P. Henry Co., Philadelphia, Pa.
Filed Apr. 19, 1951, Serial No. 612,861. Published July 29, 1952. Class 46.

565,593. Women's Hosiery. Paramount Textile Machinery Co., Chicago, Ill.
Filed Apr. 21, 1951, Serial No. 612,973. Published July 29, 1952. Class 39.

565,594. Liquid and Solid Inorganic Acidic Chemical Substances Suitable for Impregnating and Bonding Purposes by Chemical Reaction With the Materials to Which the Chemicals Are Applied. Parker Rust Proof Company, Detroit, Mich.
Filed Apr. 27, 1951, Serial No. 613,234. Published Aug. 5, 1952. Class 6.

565,595. Kitchen Utensils of a Sheet-Like Character for Lifting Pie Crust. Henry Morgan Kellogg, doing business as H. M. Kellogg, Stratford, Conn.
Filed Apr. 28, 1951, Serial No. 613,295. Published July 1, 1952. Class 23.

565,596. Saturated and Hard Fatty Acids Derived From Animal and Vegetable Oils for Use in Industry as a Raw Material in Chemical Manufacture. The Trendex Company, Memphis, Tenn.
Filed Apr. 28, 1951, Serial No. 613,314. Published July 29, 1952. Class 6.

565,597. Sausage Seasonings Mixed and Packaged for Sale to the Manufacturers of Sausage. Arthur J. Gerst, doing business as Sausage Industry Suppliers and also as Sausage Industry Supplies, San Jose, Calif.
Filed May 2, 1951, Serial No. 613,405. Published July 29, 1952. Class 46.

565,598. Deodorant in Stick Form Containing Hexachlorophene, Particularly Adapted To Be Applied to the Feet. Virginia Parks, Inc., Chicago, Ill.
Filed May 2, 1951, Serial No. 613,420. Published July 1, 1952. Class 51.

565,599. Hot Plates. The Consolidated Iron-Steel Mfg. Co., Cleveland, Ohio.
Filed May 7, 1951, Serial No. 613,585. Published June 24, 1952. Class 34.

565,600. Watches and Watch Cases. Flair Jewelry Corporation, New York, N. Y.
Filed May 9, 1951, Serial No. 613,667. Published July 8, 1952. Class 27.

565,601. Textile Rugs, Mats, and Carpets. Callaway Mills Company, La Grange, Ga.
Filed May 11, 1951, Serial No. 613,761. Published July 29, 1952. Class 42.

565,602. Textile Rugs, Mats, and Carpets. Callaway Mills Company, La Grange, Ga.
Filed May 11, 1951, Serial No. 613,762. Published July 29, 1952. Class 42.

565,603. Men's, Boys', and Children's Underwear; Infants' and Children's Sleepers; Boys' and Girls' Pajama Type Sleepers; Men's Pajamas; and Men's and Boys' T-Shirts, Polo Shirts, and Basque Shirts. Standard Knitting Mills, Inc., Knoxville, Tenn.
Filed May 11, 1951, Serial No. 613,792. Published July 29, 1952. Class 39.

565,604. Composition for Duplicating Processes—Namely, Etch Solution, Gum Solution in Liquid Form for Application to Image of Metal Lithographic Plates, Developer and Sensitizer Solution, and Chemical Scratch Remover in Liquid Form. Ditto, Incorporated, Chicago, Ill.
Filed May 12, 1951, Serial No. 613,805. Published Aug. 5, 1952. Class 6.

565,605. Fire Resistant Fabrics of Cotton and Synthetic Fibers. H. Wenzel Tent & Duck Co., St. Louis, Mo.
Filed May 14, 1951, Serial No. 613,858. Published July 29, 1952. Class 42.

565,606. Pheasants, Squab, Guinea Hens, and Chickens, All in a Cooked State. Embers, Inc., Miami Beach, Fla.
Filed May 17, 1951, Serial No. 613,977. Published July 29, 1952. Class 46.

565,607. Dairy Products—Namely, Fluid Milk, Etc. Dean Milk Company, Franklin Park, Ill.
Filed May 21, 1951, Serial No. 614,136. Published July 29, 1952. Class 46.

565,608. Enamel Coating. Atech, Inc., Toledo, Ohio.
Filed May 22, 1951, Serial No. 614,186. Published July 1, 1952. Class 16.

565,609. Ready Mixed Paints, Enamel Paint, and Varnishes. Atech, Inc., Toledo, Ohio.
Filed May 22, 1951, Serial No. 614,187. Published July 1, 1952. Class 16.

565,610. Outboard Motor Units and Parts Thereof. Kiekhaefer Corporation, Cedarburg, Wis.
Filed May 24, 1951, Serial No. 614,302. Published July 22, 1952. Class 23.

565,611. Soaps and Detergents in Powder and Liquid Form for Household Use; All-Purpose Liquid and Powdered Cleaners; Car Wash; Bowl Cleaner. N. B. Purdy Products Inc., Milwaukee, Wis.
Filed June 4, 1951, Serial No. 614,716. Published July 15, 1952. Class 52.

565,612. Women's Undergarments and Foundation Garments—Namely, Girdles, Panties, Brassières, Garter Belts. Wolfe & Lang, Inc., New York, N. Y.
Filed June 4, 1951, Serial No. 614,735. Published July 29, 1952. Class 39.

565,613. Mechanically Grooved Phonograph Records. Coral Records, Inc., New York, N. Y.
Filed June 9, 1951, Serial No. 614,985. Published June 17, 1952. Class 36.

565,614. Multivitamin Preparation. Jackson-Mitchell Pharmaceuticals, Inc., Los Angeles, Calif.
Filed June 18, 1951, Serial No. 615,326. Published June 24, 1952. Class 18.

565,615. Threads and Yarns Made of Synthetic Material—Namely, Polyacrylonitrile. Societe Rhodiaceta, Paris, France.
Priority under Sec. 44(d). French Registration No. 411,813, filed Apr. 24, 1951.
Filed June 23, 1951, Serial No. 615,612. Published July 29, 1952. Class 43.

565,616. Women's Blouses of Rayon, Cotton, and Silk Materials and the Like. Ann Abbott, Inc., New York, N. Y.
Filed June 25, 1951, Serial No. 615,617. Published July 29, 1952. Class 39.

565,617. Wash Cloths, Baby Bath Blankets, Baby Receiving Blankets, and Infants' Towels. Bilbo Knitting Company, Inc., Cohoes, N. Y.
Filed June 27, 1951, Serial No. 615,753. Published July 29, 1952. Class 42.

565,618. Cabinet Hardware—Namely, Door Pulls, Drawer Pulls, and Combination Door and Drawer Pulls. Washington Steel Products, Inc., Tacoma, Wash.
Filed June 30, 1951, Serial No. 615,957. Published July 29, 1952. Class 13.

565,619. Cabinet Hardware—Namely, Door Knobs, Drawer Knobs, Combination Door Knobs and Back Plates Therefor, Comb'nation Drawer Knobs and Back Plates Therefor, Back Plates for Door and Drawer Knobs and the Like. Washington Steel Products, Inc., Tacoma, Wash.
Filed June 30, 1951, Serial No. 615,958. Published July 29, 1952. Class 13.

565,620. Cabinet Hardware — Namely, Door Pulls, Drawer Pulls, Door and Drawer Pulls, Combination Door Pulls and Back Plates Therefor, Combination Drawer Pulls and Back Plates Therefor, and Back Plates for Door and Drawer Pulls. Washington Steel Products, Inc., Tacoma, Wash.
Filed June 30, 1951, Serial No. 615,959. Published July 29, 1952. Class 13.

565,621. Rayon and Nylon Fabrics in the Piece. Blossom Fabrics Corp., New York, N. Y.
Filed July 3, 1951, Serial No. 616,010. Published July 29, 1952. Class 42.

565,622. String Instruments in the Nature of Zithers and Parts Thereof. Harmolin, Inc., San Diego and La Mesa, Calif.
Filed July 5, 1951, Serial No. 616,098. Published June 17, 1952. Class 36.

565,623. Conduits Made of Polymeric Material, Such as Polyethylene, Cellulose Acetate, Cellulose Acetate Butyrate, Co-Polymerized Vinyls, Polystyrene and Co-Polymers Thereof. Carlon Products Corporation, Cleveland, Ohio.
Filed July 6, 1951, Serial No. 616,159. Published July 29, 1952. Class 13.

565,624. Fresh Deciduous Fruits. Cashmere Pioneer Growers, Inc., Cashmere, Wash.
Filed July 9, 1951, Serial No. 616,222. Published July 29, 1952. Class 46.

565,625. Blowers, Exhaust Fans, Air Conditioners, and Heat Distributing Fans. W. W. Grainger, Inc., Chicago, Ill.
Filed July 19, 1951, Serial No. 616,664. Published June 24, 1952. Class 34.

565,626. Rayon Crepe Fabrics in the Piece. Park Silk Co., Inc., New York, N. Y.
Filed July 19, 1951, Serial No. 616,677. Published July 29, 1952. Class 42.

565,627. Multiple Vitamins and Skin Ointment. John W. Curtis, Topeka, Kans.
Filed July 20, 1951, Serial No. 616,700. Published June 24, 1952. Class 18.

565,628. Accordions. Southern Music Company, San Antonio, Tex.
Filed July 20, 1951, Serial No. 616,736. Published July 15, 1952. Class 36.

565,629. Sheets and Pillow Cases. Naumkeag Steam Cotton Company, Salem, Mass.
Filed July 21, 1951, Serial No. 616,777. Published July 29, 1952. Class 42.

565,630. Chenille Type Broadloom Rugs. Berven Rug Mills, Inc., Fresno, Calif.
Filed July 23, 1951, Serial No. 616,812. Published July 29, 1952. Class 42.

565,631. Vitamin Concentrates Used as Ingredients of Poultry and Livestock Feeds. Commercial Solvents Corporation, New York, N. Y.
Filed July 25, 1951, Serial No. 616,899. Published June 24, 1952. Class 18.

565,632. Medicinal Compound Intended for Relief of Rheumatism and Arthritis. Frank E. Bohl, Crystal Lake, Ill.
Filed July 27, 1951, Serial No. 617,010. Published June 24, 1952. Class 18.

565,633. Colloidal Solutions of Natural Vitamins in Water for Vitaminizing Milk and Other Dairy Products. N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar," Weesp and Amsterdam, Netherlands.
Filed July 27, 1951, Serial No. 617,052. Published June 24, 1952. Class 18.

565,634. Vitamin Preparations for Human Consumption and for Veterinary Purposes and Vitamin Concentrates. N. V. Philips-Roxane Pharmaceutisch-Chemische Industrie "Duphar," Weesp and Amsterdam, Netherlands.
Filed July 27, 1951, Serial No. 617,054. Published June 24, 1952. Class 18.

565,635. Preparation in Powder Form for Increasing Bulk in the Colon. Percival W. Beirnes, doing business as Beir-Nes Laboratories, Los Angeles, Calif.
Filed Aug. 1, 1951, Serial No. 617,184. Published June 3, 1952. Class 18.

565,636. Fluid Pumps—Namely, Irrigation and Drainage Pumps, Sewerage and Sump Pumps; Tractor-Drawn Farm Implements—Namely, Corrugators, Crop Toppers, and Beet Cleaners. Parma Water Lifter Co., Parma, Idaho.
Filed Aug. 3, 1951, Serial No. 617,312. Published July 22, 1952. Class 23.

565,637. Drier Designed for Use in Paints. Witco Chemical Company, Chicago, Ill.
Filed Aug. 3, 1951, Serial No. 617,329. Published July 1, 1952. Class 16.

565,638. Ladies' Stockings. Mansfield Hosiery Mills Limited, London, England.
Filed Aug. 6, 1951, Serial No. 617,373. Published July 29, 1952. Class 39.

565,639. Enzyme Preparation for the Treatment of Draining Sinuses, Osteomyelitis, Infected Wounds or Ulcers, Hemothorax, Hematoma, Empyema, Otitis Media, and as an Adjunct to Surgical Intervention. American Cyanamid Company, New York, N. Y.
Filed Aug. 13, 1951, Serial No. 617,598. Published Aug. 5, 1952. Class 18.

565,640. CONSOLIDATED CERTIFICATE. Bemis Bro. Bag Company, St. Louis, Mo.
Coated Fabric Bags. Filed Aug. 14, 1951, Serial No. 617,646. Published Feb. 12, 1952. Class 2.
Waterproofed Paper-Backed Fabrics. Filed Aug. 14, 1951, Serial No. 617,647. Published July 15, 1952. Class 42.

565,641. Medicinal Preparation To Be Used as a Hematinic. The Upjohn Company, Kalamazoo, Mich.
Filed Aug. 17, 1951, Serial No. 617,826. Published June 24, 1952. Class 18.

565,642. Worsted Fabric in the Piece. Howse, Mead & Sons, Inc., New York, N. Y.
Filed Aug. 20, 1951, Serial No. 617,878. Published July 29, 1952. Class 42.

565,643. Rock-Breaking Machines and, as Parts Therefor, Rock-Engaging Bars, Rock-Engaging Plates, and Rock-Engaging Grates. Pettibone Mulliken Corporation, Chicago, Ill.
Filed Aug. 21, 1951, Serial No. 617,929. Published July 22, 1952. Class 23.

565,644. Medicinal Preparation Intended as a Remedy for Athlete's Foot, Ringworm, Toe Itch, Insect Bites, and Soft Corns Between Toes. Larroque Drug Co., Jeanerette, La.
Filed Aug. 24, 1951, Serial No. 618,049. Published June 10, 1952. Class 18.

565,645. Piece Goods—Namely, Poplin Made of Cotton Fibres. Burton Brothers & Co. Inc., New York, N. Y.
Filed Aug. 31, 1951, Serial No. 618,287. Published July 29, 1952. Class 42.

565,646. Paints in Paste and Ready-Mixed Form. The Farboil Company, Baltimore, Md.
Filed Sept. 5, 1951, Serial No. 618,391. Published July 22, 1952. Class 16.

565,647. Phenolic Type Resin Adhesives for Bonding and Laminating Purposes, Such as for Laminating Wood or Plastic Material. Koppers Company, Inc., Pittsburgh, Pa.
Filed Sept. 7, 1951, Serial No. 618,499. Published July 29, 1952. Class 5.

565,648. Ladies' Dresses. Wm. J. Markowitz, Los Angeles, Calif.
Filed Sept. 7, 1951, Serial No. 618,502. Published July 29, 1952. Class 39.

565,649. Liquid Adhesive Quick-Drying Cement Compound Containing Natural Rubber for Repairing Shoes and Footwear. Bradstone Rubber Company, doing business under the name of Park Cement & Chemical Co., Woodbine, N. J.
Filed Sept. 13, 1951, Serial No. 618,727. Published July 29, 1952. Class 5.

565,650. Lacquer Type of Adhesive Cement for Joining the Parts of and Sealing Paper Cartons Against Water Penetration. The F. G. Findley Company, Milwaukee, Wis.
Filed Sept. 13, 1951, Serial No. 618,736. Published July 29, 1952. Class 5.

565,651. Antacid Adsorbent Anti-Spasmodic Sedative Mixture Used for the Temporary Relief of Gastric Hyperacidity. The Harrower Laboratory, Inc., Jersey City, N. J.
Filed Sept. 14, 1951, Serial No. 618,792. Published July 15, 1952. Class 18.

565,652. Transparent Water Repellent or Waterproofing Composition To Be Applied as a Surface Coating to Walls and Like Structures. Kedmont Manufacturing & Waterproofing Co., Chicago, Ill.
Filed Sept. 19, 1951, Serial No. 618,970. Published July 1, 1952. Class 16.

565,653. Shaving Cream. Lever Brothers Company, New York, N. Y.
Filed Sept. 21, 1951, Serial No. 619,093. Published July 1, 1952. Class 51.

565,654. Mobile Straight Line Mechanical Conveyors. Stewart-Glapat Corporation, Zanesville, Ohio.
Filed Sept. 22, 1951, Serial No. 619,150. Published June 17, 1952. Class 23.

565,655. Farm or Field Seeds—Namely, Wheat, Barley, Oats, and Other Cereal Grains, Alfalfa, Clovers, Timothy, and Various Other Hay and Pasture Grasses. A. H. Hoffman, Inc., Landisville, Pa.
Filed Sept. 24, 1951, Serial No. 619,162. Published July 15, 1952. Class 1.

565,656. Ear Drops. Broemmel Pharmaceuticals, San Francisco, Calif.
Filed Sept. 24, 1951, Serial No. 619,179. Published July 15, 1952. Class 18.

565,657. Liquid Rub Solution for the Relief of Muscular Aches and Pains. Jim-E-Rub Company, Reading, Pa.
Filed Sept. 25, 1951, Serial No. 619,199. Published Aug. 5, 1952. Class 18.

565,658. Hydraulic Hand Lift Trucks. H & S Mfg. Co., Bay City, Mich.
Filed Sept. 26, 1951, Serial No. 619,241. Published July 1, 1952. Class 23.

565,659. All-Worsted Whipcord Fabrics, Sold by the Bolt. Oregon Worsted Company, Portland, Oreg.
Filed Sept. 29, 1951, Serial No. 619,401. Published July 29, 1952. Class 42.

565,660. Pneumo-Tussive Expectorant, a Liquid Preparation Used for the Treatment of Coughs Due to Colds, and Pheno-Ascorbian Compound Put Up in Capsules, Used for the Treatment of Neuralgia. Talveron Co., Brooklyn, N. Y.
Filed Sept. 29, 1951, Serial No. 619,411. Published Aug. 5, 1952. Class 18.

565,661. Product in Dry or Liquid Form Consisting of a Mechanical Mixture of Egg White and Derivative of Soybeans With Salt for Use in the Preparation of Foods. The Borden Company, New York, N. Y.
Filed Oct. 3, 1951, Serial No. 619,532. Published July 29, 1952. Class 46.

565,662. Bolts and Screws. Gubelin International Corporation, New York, N. Y.
Filed Oct. 5, 1951, Serial No. 619,619. Published July 29, 1952. Class 13.

565,663. Essential Oils, Synthetic Odoriferous Substances, Isolated Odoriferous Substances, and/or Mixtures Thereof. Naamloze Vennootschap Chemische Fabriek "Naarden," Naarden, Netherlands.
Filed Oct. 5, 1951, Serial No. 619,643. Published July 22, 1952. Class 6.

565,664. Women's Hosiery and Men's Hose. Gotham Hosiery Company, Inc., New York, N. Y.
Filed Oct. 10, 1951, Serial No. 619,827. Published July 29, 1952. Class 39.

565,665. Drapery Hardware—Namely, Traverse Tracks. The Eastern Venetian Blind Company, trading as Eastern Machine Products Co., Baltimore, Md.
Filed Oct. 12, 1951, Serial No. 619,931. Published July 29, 1952. Class 13.

565,666. Flexible Power-Transmitting Couplings for Machinery Shafting and the Like. Lovejoy Flexible Coupling Company, Chicago, Ill.
Filed Oct. 12, 1951, Serial No. 619,944. Published July 22, 1952. Class 23.

565,667. Piece Goods of Cotton and Synthetic Fibers. Cluett, Peabody & Co., Inc., Troy, N. Y.
Filed Oct. 15, 1951, Serial No. 619,989. Published July 29, 1952. Class 42.

565,668. Piece Goods of Cotton and Synthetic Fibers. Cluett, Peabody & Co., Inc., Troy, N. Y.
Filed Oct. 15, 1951, Serial No. 619,991. Published Aug. 5, 1952. Class 42.

565,669. Fertilizer in Tablet or Capsule Form; Potting Soil Plant Food Comprising Peat Moss, Peat Humus, Leaf Mold, and Vitamin B_1; Charcoal, Humus, and Enriched Soil for Use as Fertilizer. Arthur A. Lindig, doing business under the name and style of Midway Seed Company, St. Paul, Minn.
Filed Oct. 15, 1951, Serial No. 620,006. Published July 29, 1952. Class 10.

565,670. Sheet Metal Knives for Use in Meat Slicing Machines. American Slicing Machine Company, Chicago, Ill.
Filed Oct. 18, 1951, Serial No. 620,135. Published June 24, 1952. Class 23.

565,671. Preparations for the Treatment of Epileptic Fits, Falling-Sickness, St. Vitus's Dance, Hysterics, Nervousness, Hypochondria, Melancholy, Inebriety, Sleeplessness, Dizziness, Brain and Spinal Weakness. Benjamin L. Eicher, doing business as Koenig Laboratories, Chicago, Ill.
Filed Oct. 24, 1951, Serial No. 620,407. Published Aug. 5, 1952. Class 18.

565,672. Liquid for Cleaning Dental Impression Pastes From the Skin, Clothing, or Dental Instruments. Opotow Dental Manufacturing Corp., Brooklyn, N. Y.
Filed Oct. 26, 1951, Serial No. 620,523. Published July 29, 1952. Class 52.

565,673. Knitted Wear for Men—Namely, Under Shorts, Pajamas, Athletic and T-Shirts for Outer and Under Wear. Ainsbrooke Co. Inc., New York, N. Y.
Filed Oct. 30, 1951, Serial No. 620,654. Published July 29, 1952. Class 39.

565,674. Lubricating Oil. Standard Oil Company, Chicago, Ill.
Filed Oct. 30, 1951, Serial No. 620,698. Published June 17, 1952. Class 15.

565,675. Transparent Protective Coating Material Applied in Liquid Form to, for Example, Chrome Trim on Automobiles, Said Protective Coating Material Drying After Application To Form a Hard, Tough Transparent Film. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed Oct. 31, 1951, Serial No. 620,740. Published July 29, 1952. Class 16.

565,676. Chocolate Covered Ice Cream Confection. Elvira Von Tuerk, Greenwood Lake, N. Y.
Filed Oct. 31, 1951, Serial No. 620,757. Published July 29, 1952. Class 46.

565,677. Antispasmodic. Wyeth Incorporated, Philadelphia, Pa.
Filed Oct. 31, 1951, Serial No. 620,764. Published June 17, 1952. Class 18.

565,678. Soluble Fertilizer. Miller Chemical & Fertilizer Corporation, Baltimore, Md.
Filed Nov. 2, 1951, Serial No. 620,813. Published July 29, 1952. Class 10.

565,679. Medicinal Preparations—Namely, Herb Blood Tonics and Oils Applied Externally for the Relief of Rheumatism, Neuralgia, Gout, Backache, Sprain, Stiff Joints, and Sore Feet. Azid Ullah, doing business as Pakistan Medicine Company, Gary, Ind.
Filed Nov. 2, 1951, Serial No. 620,832. Published June 24, 1952. Class 18.

565,680. Sedative. American Cyanamid Company, New York, N. Y.
Filed Nov. 3, 1951, Serial No. 620,833. Published June 24, 1952. Class 18.

565,681. Rayon Fabrics, Cotton Sheeting, and Osnaburg Fabrics. Fulton Bag & Cotton Mills, Atlanta, Ga.
Filed Nov. 5, 1951, Serial No. 620,885. Published Aug. 5, 1952. Class 42.

565,682. Fabrics Sold by the Yard and Bolt, of Silk and Synthetic Fibers. Giuseppe Ravasi, Como, Italy.
Filed Nov. 8, 1951, Serial No. 621,030. Published Aug. 5, 1952. Class 42.

565,683. Inside Tire Paint and Lubricant. Paul E. Hawkinson Company, Minneapolis, Minn.
Filed Nov. 9, 1951, Serial No. 621,062. Published July 1, 1952. Class 16.

565,684. Laundry Hamper Cabinets. Bath Maid, Inc., Andrews, Ind.
Filed Nov. 13, 1951, Serial No. 621,128. Published July 29, 1952. Class 2.

565,685. Tablet Medication for the Treatment of Edema and Congestive Cardiac Failure. Lakeside Laboratories, Inc., Milwaukee, Wis.
Filed Nov. 13, 1951, Serial No. 621,152. Published June 24, 1952. Class 18.

565,686. Ready Mixed Oil Paints and Enamels—Namely, Pure Linseed Oil House Paint, Interior-Exterior Floor Enamel, Interior Quick Dry Enamel, Roof and Barn Paint, and Flat Wall Finish and Enamel Undercoater. The Harrison Paint & Varnish Company, Canton, Ohio.
Filed Nov. 15, 1951, Serial No. 621,264. Published July 1, 1952. Class 16.

565,687. Inks for Duplicating, Printing, Lithographing, Writing, Stamping, and Marking, and Thinners Therefor. Northway Chemical Co., Inc., Geneva, N. Y.
Filed Nov. 19, 1951, Serial No. 621,415. Published July 1, 1952. Class 11.

565,688. Telescopes. Bausch & Lomb Optical Company, Rochester, N. Y.
Filed Nov. 21, 1951, Serial No. 621,499. Published June 3, 1952. Class 26.

565,689. Preparation Used for the Treatment of Colds. Bio-Research Inc., Washington, D. C., and New York, N. Y.
Filed Nov. 21, 1951, Serial No. 621,500. Published Aug. 5, 1951. Class 18.

565,690. Perfumes, Colognes, and Scented Dusting Powders. Neiman-Marcus Company, Dallas, Tex.
Filed Nov. 26, 1951, Serial No. 621,679. Published July 1, 1952. Class 51.

565,691. Cleaning Solvent. Union Oil Company of California, Los Angeles, Calif.
Filed Nov. 27, 1951, Serial No. 621,738. Published July 15, 1952. Class 52.

565,692. Razor Blades. Clover Farm Stores Corporation, Cleveland, Ohio.
Filed Nov. 29, 1951, Serial No. 621,815. Published July 22, 1952. Class 23.

565,693. Woolen and Worsted Fabrics in the Piece. Appleton Woolen Mills, Appleton, Wis.
Filed Nov. 30, 1951, Serial No. 621,854. Published Aug. 5, 1952. Class 42.

565,694. Reverberatory Industrial Furnaces for the Melting of All Kinds of Metal. Carl George de Laval, Jr., Pittsburgh, Pa.
Filed Nov. 30, 1951, Serial No. 621,888. Published July 8, 1952. Class 34.

565,695. Blue Pencil Carbon Paper. The Reynolds & Reynolds Company, Dayton, Ohio.
Filed Nov. 30, 1951, Serial No. 621,904. Published July 1, 1952. Class 11.

565,696. Multiple Hen Nests. Storm Industries, Inc., Dassel, Minn.
Filed Nov. 30, 1951, Serial No. 621,915. Published July 29, 1952. Class 50.

565,697. Ready-Mixed Paint. Koppers Company, Inc., Pittsburgh, Pa.
Filed Dec. 5, 1951, Serial No. 622,112. Published July 29, 1952. Class 16.

565,698. Compound for Treating Furred Animal Pelts and More Specifically Such a Compound Which May Be Used for Wetting, Cleaning, Glazing, and as an Aid in Dyeing Furs. Ryolin Fur Division Inc., Seattle, Wash.
Filed Dec. 8, 1951, Serial No. 622,277. Published July 15, 1952. Class 52.

565,699. Metal Cooking Utensils—Namely, a Metallic Pan and Its Perforated Cover Sold as a Unit. James F. Waters, New York, N. Y.
Filed Dec. 11, 1951, Serial No. 622,369. Published July 22, 1952. Class 13.

565,700. Elastic Net Fabrics for Manufacture of Girdles, Corsets, Corselettes, and Bathing Suits. Darlington Fabrics Corporation, New York, N. Y.
Filed Dec. 12, 1951, Serial No. 622,381. Published Aug. 5, 1952. Class 42.

565,701. Transparent Plastic Tape To Mend and Make Plastic Articles. Kay-Cee Industrial Products, New York, N. Y.
Filed Dec. 12, 1951, Serial No. 622,391. Published July 29, 1952. Class 5.

565,702. Rolls of Carbon Paper for Interleaving With Continuous Form Manifold Stationery. Standard Manifold Company, Chicago, Ill.
Filed Dec. 12, 1951, Serial No. 622,417. Published July 22, 1952. Class 11.

565,703. Soil Conditioning Agents. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 13, 1951, Serial No. 622,447. Published July 29, 1952. Class 10.

565,704. Petroleum Pitch. Anderson-Prichard Oil Corporation, Oklahoma City, Okla.
Filed Dec. 14, 1951, Serial No. 622,476. Published July 15, 1952. Class 1.

565,705. Sodium Hypochlorite Solution for Use in Washing Clothes, the General Cleaning of Wood, Glass, Linoleum, Porcelain, and Vitreous China Surfaces, and Having Cleansing, Bleaching, Stain Removing, Disinfecting, and Deodorizing Properties. Gardiner Manufacturing Company, Inc., Buffalo, N. Y.
Filed Dec. 15, 1951, Serial No. 622,532. Published July 29, 1952. Class 52.

565,706. Hairnets. Hairnet Corporation of America, New York, N. Y.
Filed Dec. 15, 1951, Serial No. 622,539. Published July 29, 1952. Class 39.

565,707. Work Gloves Made of Leather, of Fabric, and of a Combination of Leather and Fabric. Davids Gloves, Inc., Springfield, Ohio.
Filed Dec. 17, 1951, Serial No. 622,582. Published July 29, 1952. Class 39.

565,708. Work Gloves Made of Leather, of Fabric, and of a Combination of Leather and Fabric. Davids Gloves, Inc., Springfield, Ohio.
Filed Dec. 17, 1951, Serial No. 622,583. Published July 29, 1952. Class 39.

565,709. Drapery Hardware—Namely, Extension Curtain Rods. The Eastern Venetian Blind Company, trading as Eastern Machine Products Co., Baltimore, Md.
Filed Dec. 17, 1951, Serial No. 622,584. Published July 22, 1952. Class 13.

565,710. Woven Wire Pieces Utilized for the Patching of Fourdrinier Wires. International Wire Works, Menasha, Wis.
Filed Dec. 26, 1951, Serial No. 622,828. Published July 15, 1952. Class 13.

565,711. Women's Hosiery. Sapphire Corporation, New York, N. Y.
Filed Dec. 26, 1951, Serial No. 622,849. Published July 29, 1952. Class 39.

565,712. Coal. Old Ben Coal Corporation, Chicago, Ill.
Filed Jan. 2, 1952, Serial No. 623,064. Published July 15, 1952. Class 1.

565,713. Fur Pelts. Paul L. Reinhardt, Burlington, Wis.
Filed Jan. 2, 1952, Serial No. 623,080. Published July 15, 1952. Class 1.

565,714. Grass Seed. O. M. Scott & Sons Company, Marysville, Ohio.
Filed Jan. 3, 1952, Serial No. 623,161. Published July 15, 1952. Class 1.

565,715. Prepared Pulverized Material Containing Graphite. The Wickes Corporation, Saginaw, Mich.
Filed Jan. 4, 1952, Serial No. 623,223. Published July 15, 1952. Class 1.

565,716. Upholstery, Drapery, Slipcover, Curtain, and Casement Fabrics Made of Cotton, Rayon, and Synthetic Fibers. Allied Products, Inc., Baltimore, Md.
Filed Jan. 5, 1952, Serial No. 623,231. Published Aug. 5, 1952. Class 42.

565,717. Antibiotic Surgical Powder. Davis & Geck, Inc., Brooklyn, N. Y.
Filed Jan. 5, 1952, Serial No. 623,241. Published Aug. 5, 1952. Class 18.

565,718. Vegetable Shortening. Safeway Stores, Incorporated, Oakland, Calif.
Filed Jan. 7, 1952, Serial No. 623,286. Published July 29, 1952. Class 46.

565,719. Seed Dressing and Fungicide. British Schering Limited, London, England.
Filed Jan. 9, 1952, Serial No. 623,333. Published Aug. 5, 1952. Class 6.

565,720. Bulk Laxative. Carter Products, Inc., New York, N. Y.
Filed Jan. 9, 1952, Serial No. 623,334. Published Aug. 5, 1952. Class 18.

565,721. Bulk Laxative. Carter Products, Inc., New York, N. Y.
Filed Jan. 9, 1952, Serial No. 623,335. Published Aug. 5, 1952. Class 18.

565,722. Grooved Phonograph Records. Addison Foster, Narberth, Pa.
Filed Jan. 9, 1952, Serial No. 623,346. Published July 15, 1952. Class 36.

565,723. Medicinal Preparation Intended for Use as a Sympathomimetic. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y.
Filed Jan. 10, 1952, Serial No. 623,397. Published Aug. 5, 1952. Class 18.

565,724. Paint Colors for Screen Process Work. Fred'k A. Stresen-Reuter, Inc., Chicago, Ill.
Filed Jan. 11, 1952, Serial No. 623,485. Published July 29, 1952. Class 16.

565,725. Ladies' Hosiery. Rivoli Hosiery Company, Inc., New York, N. Y.
Filed Jan. 11, 1952, Serial No. 623,528. Published July 29, 1952. Class 39.

565,726. Ladies' Hosiery. Vogue Manufacturing Corp., West Chester, Pa.
Filed Jan. 15, 1952, Serial No. 623,625. Published July 29, 1952. Class 39.

565,727. Aromatic Amines, Alkyl Aminophenols, Alkylated Phenols, Etc. Eastman Kodak Company, Flemington N. J., and Rochester, N. Y.
Filed Jan. 18, 1952, Serial No. 623,753. Published Aug. 5, 1952. Class 6.

565,728. Brassières. Lilyette Brassiere Co., Inc., New York, N. Y.
Filed Jan. 31, 1952, Serial No. 624,342. Published July 29, 1952. Class 39.

565,729. Wheat Flour. Burrus Mills, Incorporated, doing business under the name and style of "Morten Milling Co." Dallas and Fort Worth, Tex.
Filed Feb. 1, 1952, Serial No. 624,389. Published July 29, 1952. Class 46.

565,730. Nails and Dowel Pins. United States Steel Company, Pittsburgh, Pa.
Filed Feb. 4, 1952, Serial No. 624,510. Published July 22, 1952. Class 13.

565,731. Towel Bars, Towel Rings, Shelves, and Brackets for Bath Room Use. Handy-Andy Specialty Co., Inc., Long Island, City, N. Y.
Filed Feb. 25, 1952, Serial No. 625,473. Published July 29, 1952. Class 13.

565,732. Wire Machine Staples. Goldsmith Bros., New York, N. Y.
Filed Feb. 27, 1952, Serial No. 625,591. Published July 22, 1952. Class 13.

565,733. Anticoagulant. Abbott Laboratories, North Chicago, Ill.
Filed Mar. 1, 1952, Serial No. 625,782. Published Aug. 5, 1952. Class 18.

565,734. Medicinal Preparation To Be Used in Asthma Therapy. The Falkenhainer Corporation, Los Angeles and Beverly Hills, Calif.
Filed Mar. 5, 1952, Serial No. 625,977. Published Aug. 5, 1952. Class 18.

565,735. Woven Plastic Fabrics in the Piece. Hafner Associates, Inc., Long Island City, N. Y.
Filed Mar. 8, 1952, Serial No. 626,164. Published July 29, 1952. Class 42.

565,736. Tweed Fabrics of Wool, Worsted or Hair, in the Piece. Argarden Tweeds Limited, Edinburgh, Scotland.
Filed Mar. 11, 1952, Serial No. 626,229. Published July 29, 1952. Class 42.

565,737. Rodenticides. Vineland Laboratories, Inc., Landis Township, Cumberland County, N. J.
Filed Mar. 12, 1952, Serial No. 626,355. Published July 15, 1952. Class 6.

565,738. Various Chemical Compounds in Liquid or Powder Form Used as Addition Agents in Zinc, Cadmium, Silver and Chromium Electroplating Processes, Etc. R. O. Hull & Company, Inc., Rocky River, Ohio.
Filed Mar. 17, 1952, Serial No. 626,570. Published July 15, 1952. Class 6.

565,739. Violas, Cellos, and String Basses. Scherl & Roth, Inc., Cleveland, Ohio.
Filed Mar. 19, 1952, Serial No. 626,703. Published July 15, 1952. Class 36.

565,740. Violins, Violas, Cellos, String Basses, and Bows. Scherl & Roth, Inc., Cleveland, Ohio.
Filed Mar. 19, 1952, Serial No. 626,704. Published July 15, 1952. Class 36.

565,741. Violas, Cellos, Basses, and Bows. Scherl & Roth, Inc., Cleveland, Ohio.
Filed Mar. 19, 1952, Serial No. 626,706. Published July 15, 1952. Class 36.

565,742. Violins, Violas, Cellos, and String Basses. Scherl & Roth, Inc., Cleveland, Ohio.
Filed Mar. 19, 1952, Serial No. 626,707. Published July 15, 1952. Class 36.

565,743. Mechanically Grooved Phonograph Records. Prom Record Co., Newark, N. J.
Filed Mar. 20, 1952, Serial No. 626,747. Published July 15, 1952. Class 36.

565,744. Wick-Type Deodorant. The Selig Company, Inc., Atlanta, Ga.
Filed Mar. 25, 1952, Serial No. 627,013. Published Aug. 5, 1952. Class 6.

565,745. Fertilizers and Fertilizer Compounds and Materials, Both Inorganic and Organic, Containing One or More of the Three Principal Plant Foods—Namely, Nitrogen, Phosphoric Acid, and Potash. Mathieson Chemical Corporation, Baltimore, Md.
Filed Apr. 17, 1952, Serial No. 628,216. Published July 29, 1952. Class 10.

565,746. Soil Conditioning Agent. Wilson Organic Chemicals, Inc., Sayreville, N. J.
Filed Apr. 25, 1952, Serial No. 628,729. Published July 29, 1952. Class 10.

565,747. Plant Fertilizers. Excell Laboratories, Inc., Chicago, Ill.
Filed Apr. 26, 1952, Serial No. 628,750. Published July 29, 1952. Class 10.

565,748. Soil Conditioner. Henry W. Lyons, doing business as Orga-Min Producing Company, Laredo, Tex.
Filed Apr. 30, 1952, Serial No. 628,949. Published July 29, 1952. Class 10.

Service Marks

565,749. Maintenance Service—Namely, Lubricating, Inspecting, Adjusting, and Cleaning Various Parts of Motor Vehicles. General Motors Corporation, Detroit, Mich.
Filed Oct. 20, 1948, Serial No. 567,258. Published July 29, 1952. Class 103.

565,750. Agency Services—Namely, the Conception and Execution of Layouts, Designs, and Copy for Advertisements, Etc. Rose-Martin, Inc., New York, N. Y.
Filed May 4, 1949, Serial No. 578,224. Published July 29, 1952. Class 101.

565,751. Electric Power Distribution Services. Union Electric Company of Missouri, St. Louis, Mo.
Filed Sept. 28, 1949, Serial No. 585,463. Published July 22, 1952. Class 100.

565,752. Managing Resort Hotels and the Like and All Activities Such as Cocktail Lounges and Restaurants Connected Therewith. Shinderman Management Corporation, Chicago, Ill.
Filed Dec. 30, 1949, Serial No. 590,185. Published July 29, 1952. Class 101.

565,753. Dyeing of Textiles. Switzer Brothers, Inc., Cleveland, Ohio.
Filed Sept. 8, 1950, Serial No. 603,317. Published July 29, 1952. Class 106.

565,754. Entertainment Services by Means of Musical, Dialogue and Audience-Participation Types of Variety Shows Rendered Through the Medium of Radio and Television Broadcast Programs. Gregory and House, Inc., Cleveland, Ohio.
Filed Oct. 6, 1950, Serial No. 604,528. Published July 29, 1952. Class 107.

565,755. Advertising the Goods and Services of Others Through the Medium of Radio Programs. Eugene R. Tanz, doing business as Cox and Tanz, and as United Program Service, Philadelphia, Pa.
Filed Nov. 21, 1950, Serial No. 606,737. Published July 29, 1952. Class 101.

565,756. Packaging for Others of Small Articles, Powder, Liquid, and Cream. Ivers-Lee Company, Newark, N. J.
Filed Apr. 27, 1951, Serial No. 613,226. Published July 22, 1952. Class 100.

565,757. Promoting and Managing the Sale of Real Estate—Namely, Bringing Properties Which Are for Sale to the Attention of Brokers and Potential Buyers and Bringing Together Brokers, Sellers, and Buyers. Previews Incorporated, New York, N. Y.
Filed Nov. 6, 1951, Serial No. 620,930. Published July 22, 1952. Class 102.

565,758. Performing a Hardening Process on Steel Products of the Applicant's Customers. C. U. Scott & Son, Inc., Rock Island, Ill.
Filed Dec. 13, 1951, Serial No. 622,460. Published July 29, 1952. Class 106.

565,759. Performing a Hardening Process on Steel Products of the Applicant's Customers. C. U. Scott & Son, Inc., Rock Island, Ill.
Filed Dec. 13, 1951, Serial No. 622,461. Published July 29, 1952. Class 106.

565,760. Transportation of Goods by Motor Van. National Van Lines, Inc., Chicago, Ill.
Filed Jan. 4, 1952, Serial No. 623,199. Published July 22, 1952. Class 105.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

565,761. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Paul W. Hainke, doing business as The Paul Hainke Manufacturing Company, Hutchinson, Kans., assignor to The Paul Hainke Mower Corporation, Inc., Hutchinson, Kans., a corporation of Kansas. Original filed, act of 1905, Aug. 21, 1946; amended to application under act of 1946, Supplemental Register, Sept. 30, 1948, Serial No. 507,723.

WHIRL CUT

For Power Driven Lawn Mowers.
Claims use since Feb. 1, 1946.

565,762. (Class 46. Foods and Ingredients of Foods.) M. O. Best, doing business as M. O. Best Company, Phoenix, Ariz. Original filed, act of 1946, Principal Register, May 24, 1948; amended to application, Supplemental Register, Apr. 14, 1952, Serial No. 557,657.



For Fresh Vegetables.
Claims use since 1942.

565,763. (Class 52. Detergents and Soaps.) La Playa Products, Inc., New York, N. Y., assignee of Irving D. Kaplan. Original filed, act of 1946, Principal Register, June 3, 1948; amended to application, Supplemental Register, Jan. 6, 1949, Serial No. 558,398.

Eventone

For Color Shampoo Blender in Liquid Form.
Claims use since May 15, 1946.

565,764. (Class 39. Clothing.) Corman Leather Company, Inc., Chelsea, Mass. Original filed, act of 1946, Principal Register, July 1, 1948; amended to application, Supplemental Register, May 20, 1952, Serial No. 560,550.

WEARWELL

For Boot and Shoe Heels.
Claims use since Jan. 3, 1948.

565,765. (Class 29. Brooms, Brushes, and Dusters.) National Automotive Fibres, Inc., Oakland, Calif., by merger with California Cotton Mills Company. Original filed, act of 1946, Principal Register, Sept. 7, 1948; amended to application, Supplemental Register, June 5, 1951, Serial No. 564,760.

BEST O GLAS

For Roofers' Mops.
Claims use since Aug. 26, 1948.

565,766. (Class 46. Foods and Ingredients of Foods.) Georgia Peanut Company, Moultrie, Ga. Original filed, act of 1946, Principal Register, Feb. 9, 1949; amended to application, Supplemental Register, Aug. 21, 1952, Serial No. 573,539.



The representation of the peanut is disclaimed.
For Shelled Peanuts.
Claims use since Sept. 15, 1946.

565,767. (Class 37. Paper and Stationery.) Autographic Register Company, Hoboken, N. J. Filed Mar. 15, 1949. Serial No. 575,454.

"Continuous Forms for Continuous Savings"

For Plain, Partially Lithographed, and Partially Printed Paper Strips, Leaves and Sheets, for Use in Manifolding Registers, in Typewriters, and in Other Machines.
Claims use since 1936.

565,768. (Class 21. Electrical Apparatus, Machines, and Supplies.) Cricket Hill Pottery, New York, N. Y. Original filed, act of 1946, Principal Register, May 28, 1949; amended to application, Supplemental Register, June 29, 1950, Serial No. 579,670.



For Electrical Table, Floor, Ceiling, and Wall Lamps.
Claims use since July 1948.

565,769. (Class 46. Foods and Ingredients of Foods.) Silveira & O'Connell, Sebastopol, Calif. Original filed, act of 1946, Principal Register, June 29, 1949; amended to application, Supplemental Register, June 25, 1951, Serial No. 581,297.



For Canned Apple Sauce.
Claims use since Nov. 1, 1940.

565,770. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Mosse, Incorporated, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 8, 1949; amended to application, Supplemental Register, July 1, 1952, Serial No. 587,497.

"Special Club Trousseau"

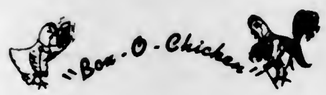
For Sheets, Pillow Cases, Blankets, Bath Towels, Hand Towels, Wash Cloths, Bath Mats, Fingertip Towels, Dinner-Doily Set, i. e., Mats, Napkins, and Runners; and Kitchen Towels.
Claims use since Sept. 10, 1949.

565,771. (Class 39. Clothing.) Savada Bros., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 15, 1949; amended to application, Supplemental Register, Mar. 14, 1951, Serial No. 587,824.

MODEL

Applicant claims ownership of Registrations Nos. 215,702 and 267,501.
For Infants', Boys', and Youths' Shorts, Dress Shirts, Sport Shirts, Work and Flannel Shirts, Pajamas, Blouses, Underwear, Pants, "Windbreakers" and Jackets.
Claims use since 1905.

565,772. (Class 46. Foods and Ingredients of Foods.) Thelma H. Thomas, doing business as Vane Thomas, St. Louis, Mo. Original filed, act of 1946, Principal Register, Dec. 2, 1949; amended to application, Supplemental Register, Jan. 10, 1951, Serial No. 588,715.



The words "Box-O-Chicken" are disclaimed.
For Fried Chicken.
Claims use since Apr. 15, 1946.

565,773. (Class 39. Clothing.) Jimmie Greenbaum Specialties, Inc., Cleveland, Ohio. Original filed, act of 1946, Principal Register, Jan. 5, 1950; amended to application, Supplemental Register, Mar. 4, 1952, Serial No. 590,362.

Flaire

The drawing is lined for red.
For Women's and Girls' Sweaters, Blouses, Skirts, Suits, Swim Suits, Shorts, Slacks and Sport Shirts and Men's and Boys' Sweaters, Dress Shirts, Sport Shirts, Sport Jackets, Pajamas, and Underwear.
Claims use since Oct. 1, 1949.

565,774. (Class 39. Clothing.) Avorn, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 16, 1950; amended to application, Supplemental Register, Jan. 19, 1951, Serial No. 592,536.



"When Your Figure Needs a Friend"

For Women's Dresses and Suits; Brassières; Corsets; Slips and Nightgowns; Women's Bathing Suits; Coats.
Claims use since Dec. 1, 1949.

565,775. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Brown-Brockmeyer Company, Dayton, Ohio. Original filed, act of 1946, Principal Register, Feb. 20, 1950; amended to application, Supplemental Register, Oct. 24, 1951, Serial No. 592,756.

Dial-A-Speed

For Electrical Motors and Controls for Starting, Stopping, Reversing and Speed Regulating of the Electric Motors.
Claims use since Feb. 17, 1950.

565,776. (Class 22. Games, Toys, and Sporting Goods.) Glo-Lure, Inc., Medford, Wis. Original filed, act of 1946, Principal Register, Mar. 16, 1950; amended to application, Supplemental Register, July 22, 1952, Serial No. 594,043.

GUNcaster

The prefix "Gun" is disclaimed.
For Apparatus for Casting Articles—Namely, Apparatus Employing Stretchable Energy Storage Means for Producing the Force for Projecting or Casting the Articles.
Claims use since Feb. 24, 1950.

565,777. (Class 39. Clothing.) Summit Mills Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 20, 1950; amended to application, Supplemental Register, June 3, 1952, Serial No. 594,293.

Kool-on

For Men's and Boys' Shirts of Acetate and Rayon Mixture.
Claims use since Dec. 31, 1949.

565,778. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Anson Incorporated, Providence, R. I. Original filed, act of 1946, Principal Register, Mar. 27, 1950; amended to application, Supplemental Register, Aug. 7, 1952, Serial No. 594,682.

Anson

For Men's Wallets.
Claims use since Feb. 17, 1950.

565,779. (Class 46. Foods and Ingredients of Foods.) Essence, Inc., Fairmount, Ind. Original filed, act of 1946, Principal Register, Apr. 1, 1950; amended to application, Supplemental Register, Jan. 25, 1952, Serial No. 595,069.

GOLDEN Essence

For Canned Frozen Concentrated Orange Juice.
Claims use since Feb. 15, 1950.

565,780. (Class 46. Foods and Ingredients of Foods.) A. Sahadi and Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 5, 1950; amended to application, Supplemental Register, May 18, 1951, Serial No. 595,283.



The terms "Tahini," "El-Ahram," "Sesame Tahini" are Syrian words meaning "Ground Seeds," "The Pyramid" and "Ground Sesame Seeds," respectively.
For Fruit and Nut Candy.
Claims use since July 17, 1928.

565,781. (Class 19. Vehicles.) Dennis Mitchell Industries, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 14, 1950; amended to application, Supplemental Register, May 29, 1952, Serial No. 595,711.

"Pres-toe"

For Collapsible Shopping Cart.
Claims use since Jan. 3, 1948.

565,782. (Class 18. Medicines and Pharmaceutical Preparations.) Bouquet Products, Inc., St. Louis, Mo. Original filed, act of 1946, Principal Register, May 13, 1950; amended to application, Supplemental Register, Apr. 10, 1952, Serial No. 597,380.

dand Raide

For Hair Cream Pomade Used To Treat Scalps Having Dandruff.
Claims use since Sept. 1, 1949.

565,783. (Class 19. Vehicles.) George Lee Ritch, doing business as Ritch & Co., Harrisonville, Mo. Original filed, act of 1946, Principal Register, May 22, 1950; amended to application, Supplemental Register, July 25, 1952, Serial No. 597,910.

CAB-COOLER

For Wind Deflecting Shields for Use on Automobile Windows.
Claims use since Apr. 10, 1950.

565,784. (Class 37. Paper and Stationery.) Andersen & Andersen, Reno, Nev. Original filed, act of 1946, Principal Register, June 16, 1950; amended to application, Supplemental Register, May 6, 1952, Serial No. 599,215.

GOLFERS SCOREZE

For Score Card Holders.
Claims use since Apr. 1 1950.

565,785. (Class 37. Paper and Stationery.) Benmont Papers Inc., Bennington, Vt. Original filed, act of 1946, Principal Register, June 21, 1950; amended to application, Supplemental Register, Apr. 11, 1952, Serial No. 599,492.

BRILLIANTONE

For Wrapping Paper, Primarily Intended for the Wrapping of Gifts.
Claims use since May 8, 1950.

565,786. (Class 19. Vehicles.) Frederick B. Curtenius, doing business as the Curtman Company, Kalamazoo, Mich. Original filed, act of 1946, Principal Register, July 19, 1950; amended to application, Supplemental Register, Nov. 28, 1951, Serial No. 600,880.

LEFTY BRAKE

For Brake Pedal Attachments, Designed for Use on and Attachment to the Brake Pedal of Cars Without a Clutch Pedal.
Claims use since Nov. 1, 1949.

565,787. (Class 46. Foods and Ingredients of Foods.) Burton D. Warnes, Buzzards Bay, Cape Cod, Mass., assignor to Drink A Banana, Inc., Boston, Mass., a corporation of Massachusetts. Original filed, act of 1946, Principal Register, July 20, 1950; amended to application, Supplemental Register, Aug. 12, 1952, Serial No. 601,006.



For Milk Drinks Having a Banana Base.
Claims use since June 1, 1945.

565,788. (Class 39. Clothing.) Winifred Spear, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 26, 1950; amended to application, Supplemental Register, Oct. 24, 1951, Serial No. 604,041.

CapeSarong

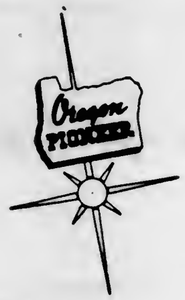
For Cape-Like Cover Garment Worn Over Skirt, or Shoulders or as a Hood.
Claims use since Aug. 30, 1950.

565,789. (Class 5. Adhesives.) United States Paste Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Oct. 9, 1950; amended to application, Supplemental Register, July 30, 1952, Serial No. 604,671.

2-1 Mix-SIZE

For Wall Paper, Paste and Liquid and Dry Size for Paste.
Claims use since Nov. 11, 1949.

565,790. (Class 46. Foods and Ingredients of Foods.) Salem Nut Growers Cooperative, Salem, Oreg. Original filed, act of 1946, Principal Register, Dec. 4, 1950; amended to application, Supplemental Register, Jan. 17, 1952, Serial No. 607,266.



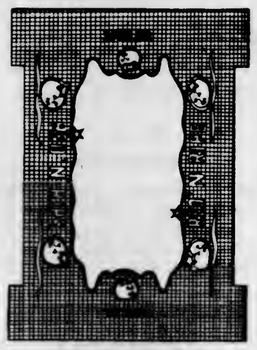
For Unshelled Nuts.
Claims use since Nov. 10, 1950.

565,791. (Class 39. Clothing.) Lee Knitwear Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 9, 1951; amended to application, Supplemental Register, Apr. 3, 1952, Serial No. 609,873.

SWIMPLAY

For Beachwear, Specifically Bathing Suits.
Claims use since May 10, 1939.

565,792. (Class 46. Fooda and Ingredients of Foods.) Pacific Gamble Robinson Co., Seattle, Wash. Original filed, act of 1946, Principal Register, Feb. 13, 1951; amended to application, Supplemental Register, Apr. 8, 1952, Serial No. 610,019.



The drawing is lined for black. The words "Red 'N Ripe" are disclaimed.
For Fresh Vegetables—Namely, Fresh Tomatoes.
Claims use since Jan. 1, 1951.

565,793. (Class 39. Clothing.) The H. A. Seinsheimer Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Feb. 14, 1951; amended to application, Supplemental Register, Apr. 3, 1952, Serial No. 610,103.

Great Drape

For Men's and Boys' Suits, Overcoats, Topcoats, Trousers and Slacks.
Claims use since October 1947.

565,794. (Class 21. Electrical Apparatus, Machines, and Supplies.) James Millen Manufacturing Company, Inc., Malden, Mass. Filed Mar. 8, 1951, Serial No. 611,033.

"Designed for Performance"

For Radio Receivers; Radio Receiver Accessories—Namely, Hetrofil Filters, Crystal Filters, Tuning Controls, Selectivity Controls, Power Suppliers, Amplifiers, Boosters, Preamplifiers; Radio Transmitters and Radio Transmitter Accessories—Namely, Exciters, Drivers, Amplifiers, Power Suppliers, and Antenna Tuners.
Claims use since May 1, 1947.

565,795. (Class 46. Foods and Ingredients of Foods.) Louis Salganik & Sons, Baltimore, Md. Original filed, act of 1946, Principal Register, Mar. 8, 1951; amended to application, Supplemental Register, Mar. 7, 1952, Serial No. 611,043.

RANCHER'S BEST

For Fresh Commercial Cuts of Beef, Veal, Lamb, and Pork.
Claims use since Feb. 19, 1951.

565,796. (Class 39. Clothing.) MacLaren Sportswear Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 10, 1951; amended to application, Supplemental Register, May 15, 1952, Serial No. 611,135.

"Soap 'N' Rinse"

For Men's and Boys' Sportswear—Namely, Sport Shirts, Slacks, Outer Jackets, Sport Jackets, Trunks, Beach Robes, Tennis Shorts, Suits, and Beach Jackets.
Claims use since Feb. 20, 1950.

565,797. (Class 46. Foods and Ingredients of Foods.) The Quaker Oats Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 12, 1951; amended to application, Supplemental Register, Mar. 17, 1952, Serial No. 611,196.

HONEY PUFFS

For Sweetened Puffed Wheat.
Claims use since Jan. 25, 1951.

565,798. (Class 46. Foods and Ingredients of Foods.) The Quaker Oats Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 12, 1951; amended to application, Supplemental Register, Mar. 17, 1952, Serial No. 611,197.

SUGAR PUFFS

For Sweetened Puffed Wheat.
Claims use since Jan. 25, 1951.

565,799. (Class 21. Electrical Apparatus, Machines, and Supplies.) Security Fire Door Company, St. Louis, Mo. Original filed, act of 1946, Principal Register, Mar. 24, 1951; amended to application, Supplemental Register, June 12, 1952, Serial No. 611,743.

MAGNE-GRIP

For Electromagnetic Freight Elevator Door Operators and Freight Elevator Doors Equipped With Such Operators.
Claims use since October 1949.

565,800. (Class 2. Receptacles.) Container Corporation of America, Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 29, 1951; amended to application, Supplemental Register, Mar. 22, 1952, Serial No. 611,943.

NESTRAY

For Folding Cartons Formed From Paperboard.
Claims use since July 20, 1950.

565,801. (Class 39. Clothing.) Catalina, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Apr. 10, 1951; amended to application, Supplemental Register, Apr. 23, 1952, Serial No. 612,440.

Miss United States

For Swim Suits.
Claims use since Mar. 22, 1951.

565,802. (Class 39. Clothing.) V-Line Clothes Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Apr. 23, 1951; amended to application, Supplemental Register, Apr. 28, 1952, Serial No. 613,032.

for men of dimension

For Men's Clothing—Namely, Suits, Coats, Pants, Vests, Overcoats, Topcoats, All for Informal and Also for Formal Dress.
Claims use since March 1951.

565,803. (Class 46. Foods and Ingredients of Foods.) Hartford Live Poultry, Hartford, Conn. Original filed, act of 1946, Principal Register, May 11, 1951; amended to application, Supplemental Register, Mar. 20, 1952, Serial No. 613,773.

KOSHRBEST

For Fresh and Quick Frozen Dressed Poultry for Human Consumption.
Claims use since Feb. 12, 1951.

565,804. (Class 22. Games, Toys, and Sporting Goods.) American Metal Specialties Corporation, Hatboro, Pa. Filed May 21, 1951, Serial No. 614,119.

DOLL-E-COACH BY AMSCO

Applicant claims ownership of Registrations Nos. 539,036 and 539,703.
For Toy Coach for Children.
Claims use since December 1949.

565,805. (Class 46. Foods and Ingredients of Foods.) Anarc, Incorporated, Nashville, Tenn. Original filed, act of 1946, Principal Register, May 24, 1951; amended to application, Supplemental Register, Aug. 19, 1952, Serial No. 614,280.

Dairy Dip

For Ice Cream and Frozen Custard.
Claims use since June 8, 1950.

565,806. (Class 39. Clothing.) Green Lane Hosiery Co., Inc., Green Lane, Pa. Original filed, act of 1946, Principal Register, May 25, 1951; amended to application, Supplemental Register, July 14, 1952, Serial No. 614,343.

HEEL&SOLE CONTROL

For Ladies' Stockings.
Claims use since May 14, 1951.

565,807. (Class 10. Fertilizers.) Virginia-Carolina Chemical Corporation, Richmond, Va. Original filed, act of 1946, Principal Register, June 21, 1951; amended to application, Supplemental Register, Aug. 25, 1952, Serial No. 615,507.

BloomAid

Applicant claims ownership of Registration No. 242,222.
For Fertilizers.
Claims use since Dec. 19, 1927.

565,808. (Class 22. Games, Toys, and Sporting Goods.) Western Lace and Line Company, also doing business as Western Fishing Line Co., Glendale, Calif. Original filed, act of 1946, Principal Register, June 22, 1951; amended to application, Supplemental Register, Aug. 18, 1952, Serial No. 615,592.

SQUIDLINE

For Fishing Line.
Claims use since July 22, 1948.

565,809. (Class 22. Games, Toys, and Sporting Goods.) American Metal Specialties Corp., also known as American Metal Specialties Corporation, Hatboro, Pa. Filed July 2, 1951, Serial No. 615,966.

Sand-E-Wade

For Sand Boxes and Wading Pools.
Claims use since on or about Dec. 1, 1949.

565,810. (Class 19. Vehicles.) Consolidated Vultee Aircraft Corporation, San Diego, Calif. Original filed, act of 1946, Principal Register, July 27, 1951; amended to application, Supplemental Register, June 26, 1952, Serial No. 617,012.

TURBOLINER

For Airplanes.
Claims use since Feb. 8, 1950.

565,811. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Boott Mills, Lowell, Mass. Original filed, act of 1946, Principal Register, July 30, 1951; amended to application, Supplemental Register, July 24, 1952, Serial No. 617,105.

ROUND-CORD

For Corduroy Fabrics and Other Fabrics in the Piece Composed of Cotton, Wool, Rayon, and Silk or Combinations Thereof.
Claims use since July 20, 1951.

565,812. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Joseph M. Adamo, doing business under the fictitious name and style of Adamo Co., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Aug. 28, 1951; amended to application, Supplemental Register, July 14, 1952, Serial No. 618,138.

Downyweave

For Woven Carpets.
Claims use since Dec. 7, 1950.

565,813. (Class 39. Clothing.) Dutchess Underwear Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 7, 1951; amended to application, Supplemental Register, Aug. 4, 1952, Serial No. 618,485.

PTP PERFORMANCE TESTED PANTY

For Ladies' Wearing Apparel—Namely, Panties.
Claims use since May 28, 1951.

565,814. (Class 46. Foods and Ingredients of Foods.) The Dixie Whip Sales Corporation, Atlanta, Ga. Filed Sept. 11, 1951, Serial No. 618,629.

DIXIE WHIP

For Liquid Vegetable Derived Product in a Pressurized Container Which Dispenses the Product in Whipped Form for Use as a Topping for Desserts, Salads, and the Like.
Claims use since January 1950.

565,815. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Mandee Fabrics, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 11, 1951; amended to application, Supplemental Register, Apr. 11, 1952, Serial No. 618,641.

RESIST-A-SPOT

For Textile Fabrics, in the Piece, Comprised of Cotton, Rayon, Wool, Silk, Nylon, and Combinations Thereof.
Claims use since Mar. 20, 1951.

565,816. (Class 39. Clothing.) Dutchess Underwear Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 10, 1951; amended to application, Supplemental Register, Aug. 4, 1952, Serial No. 619,819.

VEIL-A-BRA

For Ladies Wearing Apparel—Namely, Slips.
Claims use since Sept. 6, 1950.

565,817. (Class 3. Baggage, Animal Equipments, Portfolios, and Pocketbooks.) Nash Inc., Jersey City, N. J. Original filed, act of 1946, Principal Register, Nov. 16, 1951; amended to application, Supplemental Register, July 22, 1952, Serial No. 621,327.

KWIK-CHANGE

For Bill Folds, Pocket Books, Purses, and Wallets.
Claims use since June 15, 1951.

565,818. (Class 19. Vehicles.) Visionade Visor Co., Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Dec. 3, 1951; amended to application, Supplemental Register, May 1, 1952, Serial No. 622,047.

SUNFILTER

For Flexible Transparent Visors for Automobile Windshields.
Claims use since Sept. 30, 1950.

565,819. (Class 19. Vehicles.) G. R. Hutchinson, doing business as Hutchinson Company, Manufacturers, Shreveport, La. Original filed, act of 1946, Principal Register, Dec. 28, 1951; amended to application, Supplemental Register, May 9, 1952, Serial No. 622,941.

Redi-Fit

For Grill Guards, Bumpers, and Spare Tire Carriers for Use on Vehicles.
Claims use since Mar. 1, 1948.

565,820. (Class 16. Protective and Decorative Coatings.) The Sherwin-Williams Company, Cleveland, Ohio. Filed Jan. 29, 1952, Serial No. 624,244.

SILVERBRITE

For Paints, Liquid Paste and Semi-Paste, Aluminum Paste and Aluminum Paints.
Claims use since Mar. 9, 1931.

565,821. (Class 50. Merchandise Not Otherwise Classified.) Thomas G. Faulkner, doing business in the name of Faulkner Laboratories, Tampa, Fla. Filed Mar. 10, 1952, Serial No. 626,201.

"FAST SIGN"

For Plastic Sign Letters.
Claims use since December 1949.

565,822. (Class 46. Foods and Ingredients of Foods.) American Chewing Products Corp., Newark, N. J. Filed Apr. 30, 1952, Serial No. 628,891.



The words "Peppermint" and "Chewing Gum" are disclaimed. Applicant claims ownership of Registration No. 413,820.
For Chewing Gum.
Claims use since June 1, 1950.

TRADE-MARK REGISTRATIONS RENEWED

38,564. KEYMO. Registered July 8, 1902. William Fulton & Sons, Ltd., Paisley, Scotland, a corporation organized under the laws of Great Britain and Ireland. Re-renewed July 8, 1952. Cloths and Stuffs of Wool, Worsted, or Hair. Class 42.

39,018. BABY'S OWN. Registered Oct. 14, 1902. The Dr. Williams Medicine Company, Schenectady, N. Y., a corporation of New York. Re-renewed Oct. 14, 1952. Laxative Medicine for Infants and Children. Class 18

39,170. ROYCROFT. Registered Nov. 4, 1902. Clark-Hutchinson Co., Boston, Mass. Re-renewed Nov. 4, 1952, to International Shoe Co., St. Louis, Mo., a corporation of Delaware. Boots, Shoes, and Slippers, and Leather for the Same. Class 39..

39,313. "FORCE" AND DRAWING. Registered Nov. 18, 1902. The "Force" Food Company, Buffalo, N. Y. Re-renewed Nov. 18, 1952, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey. Cereal Food Products. Class 46.

39,374. PRESTO. Registered Dec. 2, 1902. The H-O (Hornby's Oatmeal) Company, Buffalo and New York, N. Y. Re-renewed Dec. 2, 1952, to The Best Foods, Inc., New York, N. Y., a corporation of New Jersey. Cereal Food Products. Class 46.

87,800. "QUAKER LACES" AND PORTRAIT. Registered Aug. 6, 1912. Quaker Lace Company, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Aug. 6, 1952. Lace Piece Goods for Dresses. Class 42.

87,801. "QUAKER CURTAINS" AND PORTRAIT. Registered Aug. 6, 1912. Quaker Lace Company, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Aug. 6, 1952. Lace Curtains. Class 42.

88,434. DUCHESS. Registered Sept. 17, 1912. James Van Dyk Company, New York, N. Y. Re-renewed Sept. 17, 1952, to James Van Dyk Co., Inc., Brooklyn, N. Y., a corporation of New York. Coffee. Class 46.

88,913. DEAROS. Registered Oct. 29, 1912. Charles N. Miller. Re-renewed Oct. 29, 1952, to Charles N. Miller Co., Boston, Mass., a corporation of Massachusetts. Candy. Class 46.

88,935. Y&S. Registered Oct. 29, 1912. National Licorice Company, Brooklyn, N. Y., a corporation of New York. Re-renewed Oct. 29, 1952. Stick-Licorice, Licorice Chewing-Gum, and Licorice Wafers. Class 46.

88,987. VULCAN. Registered Oct. 29, 1912. J. H. Williams & Co., New York, N. Y. Re-renewed Oct. 29, 1952, to J. H. Williams & Co., Buffalo, N. Y., a corporation of New York. C-Clamps, Strap-Clamps, Lathe-Dogs, Etc. Class 23.

89,226. SPLENDOR. Registered Dec. 3, 1912. Colgate & Co., Jersey City, N. J., and New York, N. Y. Re-renewed Dec. 3, 1952, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Liquid and Powdered Perfumes. Class 51.

292,494. PAGE. Registered Mar. 15, 1932. Page Steel and Wire Company, Adrian, Mich., and Bridgeport, Conn. Renewed Mar. 15, 1952, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York. Fence Erecting Tools—Namely, Fence Stretchers. Class 23.

294,435. SIGNAL PURR-PULL. Registered May 24, 1932. Signal Oil & Gas Company, Renewed May 24, 1952, to Standard Oil Company of California, doing business as Signal Oil Company, Los Angeles, Calif., a corporation of Delaware. Gasoline. Class 15.

294,733. DELSHIRE CREAM. Registered June 7, 1932. The De Laval Separator Company, New York, N. Y. Renewed June 7, 1952, to The De Laval Separator Company, Poughkeepsie, N. Y., a corporation of New Jersey. Centrifugal Cream Separating Machines. Class 23.

294,809. MICROMAX. Registered June 7, 1932. Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed June 7, 1952. High Sensitivity High Speed Recorders of Magnitudes of Temperature, Humidity, Etc. Class 26.

294,937. TABERNACOLITE. Registered June 14, 1932. Will & Baumer Candle Co., Inc., Syracuse, N. Y., a corporation of New York. Renewed June 14, 1952. Candles. Class 15.

294,987. DELSHIRE CREAM. Registered June 14, 1932. The De Laval Separator Company, New York, N. Y. Renewed June 14, 1952, to The De Laval Separator Company, Poughkeepsie, N. Y., a corporation of New Jersey. Cream. Class 46.

294,991. REYAL. Registered June 14, 1932. The Gardiner Hall Jr. Company, South Willington, Conn., and New York, N. Y. Renewed June 14, 1952, to The Gardiner Hall Jr. Company, South Willington, Conn., a corporation of Connecticut. Thread. Class 43.

295,029. NATIONAL MATCH. Registered June 14, 1932. Colt's Patent Fire Arms Manufacturing Co. Renewed June 14, 1952, to Colt's Manufacturing Company, Hartford, Conn., a corporation of Connecticut. Pistols. Class 9.

295,062. "SWIFT-ON" AND REPRESENTATION OF WINGS. Registered June 14, 1932. The Gerson-Stewart Corporation, Cleveland, Ohio, a corporation of Ohio. Renewed June 14, 1952. Floor, Woodwork and Furniture Polishes of a Liquid or Semi-Liquid Material. Class 4.

295,073. "HOUSEHOLD". Registered June 14, 1932. The New Home Sewing Machine Company, Rockford, Ill., a corporation of Illinois. Renewed June 14, 1952. Sewing Machines. Class 23.

295,169. "LONE STAR" AND TRIANGLE DESIGN LINED FOR RED AND BLUE. Registered June 21, 1932. Texas Farm Products Company, Nacogdoches, Tex., a corporation of Texas. Renewed June 21, 1952. Stock Feed, Chicken Feed, and Dairy Feed. Class 46.

295,481. ZOTOS. Registered July 5, 1932. Zotos, Inc., now by change of name Steam Waving Corporation, assignor to Zotos Corporation. Renewed July 5, 1952, to Sales Affiliates, Inc., New York, N. Y., a corporation of New York. Hair Waving Pads. Class 44.

295,563. CENTRIPAC. Registered July 5, 1932. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed July 5, 1952. Asbestos, Cotton, Fibrous, and Metal Machinery Packings. Class 35.

295,784. FIRECRETE. Registered July 12, 1932. Johns-Manville Corporation, New York, N. Y., a corporation of New York. Renewed July 12, 1952. Refractory Cements. Class 12.

296,151. "UNDER THE CHINA-BERRY TREE". Registered July 26, 1932. L. Bamberger & Co., Newark, N. J. Renewed July 26, 1952, to R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Children's Dresses, Coats, and Sweater Suits. Class 39.

296,257. MAXOL. Registered Aug. 2, 1932. The Pennzoil Company, Los Angeles, Calif., a corporation of California. Renewed Aug. 2, 1952. Lubricating Oils and Greases. Class 15.

296,346. REPRESENTATION OF COMPASS PIVOT WITH RED BAND AROUND SAME. Registered Aug. 2, 1932. Eagle Pencil Company, New York, N. Y., a corporation of Delaware. Renewed Aug. 2, 1952. Compasses and Dividers. Class 26.

296,705. PLYWALL. Registered Aug. 16, 1932. Robinson Manufacturing Company. Renewed Aug. 16, 1952, to Robinson Plywood and Timber Company, Everett, Wash., a corporation of Washington. Sheets of Wood Veneer. Class 12.

296,792. "UT DERWOOD" AND REPRESENTATION OF LABEL. Registered Aug. 23, 1932. Underwood Elliott Fisher Company. Renewed Aug. 23, 1952, to Underwood Corporation, New York, N. Y., a corporation of Delaware. Typewriter Ink-Ribbons and Coated Transfer-Sheets for Typewriter Manifolding. Class 11.

297,110. "SUPERBA" ETC. AND DESIGN. Registered Aug. 30, 1932. Neidich Process Company, Burlington, N. J. Renewed Aug. 30, 1952, to Underwood Corporation, New York, N. Y., a corporation of Delaware. Carbon Paper and Typewriter Ribbons. Class 11.

297,111. "THE PROGRESS" ETC. AND REPRESENTATION OF BOX. Registered Aug. 30, 1932. Neidich Process Company, Burlington, N. J. Renewed Aug. 30, 1952, to Underwood Corporation, New York, N. Y., a corporation of Delaware. Carbon Paper and Typewriter Ribbons. Class 11.

297,112. "MONOGRAM" ETC. AND DESIGN. Registered Aug. 30, 1932. Neidich Process Company, Burlington, N. J. Renewed Aug. 30, 1952, to Underwood Corporation, New York, N. Y., a corporation of Delaware. Carbon Paper and Typewriter Ribbons. Class 11.

297,113. "MANI-FOLDO" ETC. AND DESIGN. Registered Aug. 30, 1932. Neidich Process Company, Burlington, N. J. Renewed Aug. 30, 1952, to Underwood Corporation, New York, N. Y., a corporation of Delaware. Carbon Paper and Typewriter Ribbons. Class 11.

297,183. BUMBOREE. Registered Sept. 6, 1932. The B. V. D. Company, Inc., Baltimore, Md. Renewed Sept. 6, 1952, to The B. V. D. Company, Inc., New York, N. Y., a corporation of Delaware. Trunks Worn as Outer Garments by Males and Females for Bathing, Camping, and Other Sport and Athletic Uses Generally. Class 39.

297,276. "UNDER THE CHINA-BERRY TREE." Registered Sept. 6, 1932. L. Bamberger & Co., Newark, N. J. Renewed Sept. 6, 1952, to R. H. Macy & Co., Inc., New York, N. Y., a corporation of New York. Children's Furniture—e. g., Miniature Articles in Imitation of Chairs, Stools, Tables, Etc. Class 32.

297,476. GIANT. Registered Sept. 13, 1932. Otto Roth, Inc., Newark, N. J. Renewed Sept. 13, 1952, to Colton Razor Blade Company, Boston, Mass., a corporation of Massachusetts. Safety Razor Blades. Class 23.

297,646. "TIGER" AND DRAWING. Registered Sept. 20, 1932. The Hubinger Company, Keokuk, Iowa, a corporation of Iowa. Renewed Sept. 20, 1952. Corn Starch. Class 46.

297,755. BAR NONE. Registered Sept. 27, 1932. Otto Roth, Inc., Newark, N. J. Renewed Sept. 27, 1952, to Colton Razor Blade Company, Boston, Mass., a corporation of Massachusetts. Safety Razor Blades. Class 23.

297,807. PRO-TEK. Registered Oct. 4, 1932. The Mountain Varnish & Color Works, Inc., Toledo, Ohio. Renewed Oct. 4, 1952, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Preparation in the Form of a Cream for Use in Protecting the Skin From Paint, Varnish, Grease, Oils, and Acid. Class 51.

297,908. "SUCREST" AND DESIGN. Registered Oct. 4, 1932. Sucrest Corporation. Renewed Oct. 4, 1952, to American Molasses Company, New York, N. Y., a corporation of New York. Sugar and Confectionery Syrup. Class 46.

297,949. "RED BREAST" AND DRAWING. Registered Oct. 4, 1932. F. A. Gosse Company, Seattle, Wash., a corporation of Washington. Renewed Oct. 4, 1952. Canned Fish. Class 46.

297,996. KOVER ZIP. Registered Oct. 11, 1932. Waldes Kohinoor, Inc., Long Island City, N. Y., a corporation of New York. Renewed Oct. 11, 1952. Slide Fasteners. Class 13.

298,013. RIVAL. Registered Oct. 11, 1932. Atlas Supply Company, Newark, N. J., a corporation of Delaware. Renewed Oct. 11, 1952. Storage Batteries. Class 21.

298,062. O-BRITE-O. Registered Oct. 11, 1932. The Selig Company, Atlanta, Ga., a corporation of Georgia. Renewed Oct. 11, 1952. Liquid Wax for Use on Various Kinds of Floors and Painted or Varnished Surfaces. Class 4.

298,185. "PERMAG" ETC. AND DESIGN. Registered Oct. 18, 1932. Magnuson Products Corporation, Brooklyn, N. Y., a corporation of New York. Renewed Oct. 18, 1952. Washing Sodas. Class 52.

298,350. ATLAS. Registered Oct. 25, 1932. Atlas Supply Company, Newark, N. J., a corporation of Delaware. Renewed Oct. 25, 1952. Storage Batteries, Storage Battery Chargers, Electric Fuses, Etc. Class 21.

298,381. MONITOR. Registered Oct. 25, 1932. Atlas Supply Company, Wilmington, Del., and Newark, N. J. Renewed Oct. 25, 1952, to Atlas Supply Company, Newark, N. J., a corporation of Delaware. Storage Batteries. Class 21.

298,382. PAR-VAL. Registered Oct. 25, 1932. Atlas Supply Company, Wilmington, Del., and Newark, N. J. Renewed Oct. 25, 1952, to Atlas Supply Company, Newark, N. J., a corporation of Delaware. Storage Batteries. Class 21.

298,432. SULTANA. Registered Oct. 25, 1932. Sultana Hosiery Mills, Inc. Renewed Oct. 25, 1952, to Sultana Hosiery Company, New York, N. Y., a firm. Hosiery and Lingerie. Class 39.

298,483. THE YOUNG WASHINGTONIAN SHOP. Registered Oct. 25, 1932. The Hecht Co., Washington, D. C., and also doing business as The Hub, Baltimore, Md. Renewed Oct. 25, 1952, to The Hecht Company, Washington, D. C., Silver Spring, and Baltimore, Md., also trading as The Hub and Hecht Bros., Baltimore, Md., and Hecht Bros., New York, N. Y., a corporation of Maryland. Women's Apparel—Namely, Gloves Made of Leather, Rubber, Etc. Class 39.

298,507. STANDARD INVESTOR'S GUIDE. Registered Oct. 25, 1932. The Standard Statistics Company, Inc. Renewed Oct. 25, 1952, to Standard & Poor's Corporation, New York, N. Y., a corporation of New York. Publications Issued Periodically. Class 38.

298,554. "MC'S YUMA QUALITY ASSURES A PROFIT". Registered Nov. 1, 1932. L. M. McLaren. Renewed Nov. 1, 1952, to L. M. McLaren Produce, Inc., Yuma, Ariz., a corporation of Arizona. Fresh Vegetables. Class 46.

298,623. SABALOL. Registered Nov. 1, 1932. Morgan-Sabalol Products, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 1, 1952. Nose and Throat Medication. Class 18.

298,710. HIGH-TRACTION. Registered Nov. 1, 1932. The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio. Renewed Nov. 1, 1952. Differential Gearing. Class 23.

298,767. VAN GUARD. Registered Nov. 8, 1932. Atlas Supply Company, Wilmington, Del., and Newark, N. J. Renewed Nov. 8, 1952, to Atlas Supply Company, Newark, N. J., a corporation of Delaware. Storage Batteries. Class 21.

298,793. "JO-LO" ETC. AND DESIGN. Registered Nov. 8, 1932. Joe Lowe Corporation, Brooklyn, N. Y. Renewed Nov. 8, 1952, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware. Blend of Pure Dehydrated Egg Yolk, Selected Proteins of Milk, Salts, Etc. Class 46.

298,794. "JO-LO" ETC. AND DESIGN. Registered Nov. 8, 1932. Joe Lowe Corporation, Brooklyn, N. Y. Renewed Nov. 8, 1952, to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware. Blend of Pure Dehydrated Egg Yolk, Selected Proteins of Milk, Salts, and Carbohydrates for the Purpose of Improving the Texture and Body of Ice Cream. Class 46.

298,800. "COCKATOO" AND DRAWING. Registered Nov. 8, 1932. Balfour, Guthrie & Co., Limited, San Francisco, Calif., a corporation of Delaware. Renewed Nov. 8, 1952. Firecrackers and Fireworks. Class 9.

298,870. PRISCILLA. Registered Nov. 8, 1932. Fort Howard Paper Company, Green Bay, Wis., a corporation of Wisconsin. Renewed Nov. 8, 1952. Toilet Paper, Paper Towels, Paper Napkins, Etc. Class 37.

299,020. "FLEETWOOD" AND REPRESENTATION OF LABEL LINED FOR GREEN. Registered Nov. 15, 1932. King Dobbs & Company. Renewed Nov. 15, 1952, to Fleetwood Coffee Company, Chattanooga, Tenn., a corporation of Tennessee. Canned Fruits, Canned Vegetables, Catsup, Etc. Class 46.

299,084. "VENICE MAID" ETC. AND DESIGN LINED FOR RED AND BLUE. Registered Nov. 22, 1932. Venice Maid Company. Renewed Nov. 22, 1952, to Venice Maid Co., Inc., Vineland, N. J., a corporation of New Jersey. Spaghetti Sauce. Class 46.

299,190. KARESS. Registered Nov. 22, 1932. Bourjois, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 22, 1952. Perfume, Toilet Water, Face Powder, Etc. Class 51.

299,339. LES CHARMES DU PRINTEMPS. Registered Nov. 29, 1932. Bourjois, Inc., New York, N. Y., a corporation of New York. Renewed Nov. 29, 1952. Face Powder. Class 51.

299,345. "GOOD LUCK" AND DESIGN LINED FOR RED, BLUE, AND YELLOW. Registered Nov. 29, 1932. John F. Jelke Company, Chicago, Ill. Renewed Nov. 29, 1952, to Lever Brothers Company, New York, N. Y., a corporation of Maine. Oleomargarine, Evaporated Milk, Mayonnaise, Salad Dressing, Etc. Class 46.

299,371. KWIXET. Registered Nov. 29, 1932. Boston Varnish Company, Everett, Mass., a corporation of Massachusetts. Renewed Nov. 29, 1952. Varnishes, Paint Enamels, Stains, and Ready-Mixed Paints. Class 16.

299,417. EXPANDO. Registered Dec. 6, 1932. Pioneer Suspender Company, Philadelphia, Pa. Renewed Dec. 6, 1952, to Pioneer Suspender Company, Darby, Pa., a corporation of Pennsylvania. Buckles Made of Non-Precious Metal. Class 40.

299,540. DUCKY. Registered Dec. 6, 1932. Ideal Novelty & Toy Co., Brooklyn, N. Y. Renewed Dec. 6, 1952, to Ideal Toy Corporation, Hollis, N. Y., a corporation of New York. Dolls. Class 22.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

218,937. "HECKER H-O MILLS" ETC. AND DESIGN. Registered Oct. 5, 1926. Hecker-H-O Company, Inc., Buffalo, N. Y. Cereal Foods, Including Oatmeal, Rolled Oats, Etc. Class 46. Canceled Aug. 25, 1952. Sec. 7(d).

348,327. "CLIMATIZED." Registered July 20, 1937. Norfolk Paint & Varnish Company, Quincy, Mass. Ready-Mixed, Paste, and Dry Paints, Etc. Class 16. Canceled Sept. 16, 1952. Sec. 7(d).

503,740. PIPE-ARCH. Registered Nov. 9, 1948. The American Rolling Mill Company, Middleton, Ohio. Ferrous Metal Culverts and Parts Therefor—Namely, Plates, Bolts, Etc. Class 12. Canceled Aug. 25, 1952. Sec. 7(d).

525,545. ARC-RIB BUILDING. Registered May 23, 1950. Clark G. Williams, West Palm Beach, Fla. Wooden and Metal Prefabricated Buildings in Their Completed Form and Used as Residences, Etc. Class 12. Canceled Sept. 2, 1952. Canc. No. 5655.

532,514. RATIOMATIC ETC. Registered Oct. 24, 1950. The Denver Fire Clay Company, Denver, Colo. Oil Burners. Class 34. Canceled Aug. 25, 1952. Sec. 7(d).

536,954. AKA. Registered Jan. 23, 1951. Kelly Photo Supply, Chicago, Ill. Photographic Cameras, Lenses, and Camera Carrying Cases. Class 26. Canceled Sept. 2, 1952. Canc. No. 5883.

542,166. TRAIL A BOAT. Registered May 8, 1951. William E. Hann, Los Angeles, Calif. Combined Trailer and Small Pleasure-Type Fishing or Row Boat. Class 19. Canceled Sept. 2, 1952. Canc. No. 5855.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 87,623. Registered July 30, 1912. The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut. Republished by registrant.

GREIST

For Attachments for Sewing Machines—To Wit, Attachment-Holders, Binders, Braiders, Buttonhole Attachments, Corders, Embroidering and Darning Attachments, Guides, Hemmers, Plaiters, Quilters, Rufflers, and Tuck-Creasers or Tuckers.
Claims use since sometime during the year 1888.

Reg. No. 296,228. Registered Aug. 2, 1932. Ontario Knife Company, Franklinville, N. Y., a corporation of New York. Republished by registrant.

Tru-Edge

The word "Edge" is disclaimed apart from the mark as shown.
For Kitchen and Table Knives and Forks, Butcher Knives, Shoe Knives, Grape Knives, Coring Hooks, Pitting Spoons, Cotton Sampling Knives, Corn and Vegetable Knives, Beet Topping Knives, Spatulas and Palette Knives, Cleavers, Putty Knives, and Paint and Wall Scrapers, All Made of Base Metal.
Claims use since July 1, 1912.

CLASS 37

PAPER AND STATIONERY

Reg. No. 86,276. Registered Apr. 30, 1912. Byron Weston Company, Dalton, Mass., a corporation of Massachusetts. Republished by registrant.

FLEXO

For Writing Paper.
Claims use since on or about Dec. 1, 1911.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 86,418. Registered May 7, 1912. Thos. H. Lynch, near Fresno, Calif. Republished by United Packing Co., Fresno, Calif., a co-partnership.



For Fresh Grapes.
Claims use since July 29, 1911.

Reg. No. 278,216. Registered Dec. 9, 1930. McCormick Mfg. Co. Limited, London, Ontario, Canada. Republished by McCormick's Limited, London, Ontario, Canada, a corporation organized under the laws of the Dominion of Canada.

SUNWHEAT

For Biscuits.
Claims use since Jan. 20, 1930.

Reg. No. 297,711. Registered Sept. 27, 1932. United Packing Company, Fresno, Calif. Republished by United Packing Co., Fresno, Calif., a co-partnership.

ROSY

For Fresh Grapes, Fresh Deciduous Fruits, Fresh Citrus Fruits, Olives in Natural State, Fresh Cantaloupes, Fresh Berries, and Fresh Vegetables.
Claims use since July 20, 1925.

REISSUES

OCTOBER 21, 1952

23,566

FRANGIBLE STAPLE

Ernst Johan Jens Henriksen, Copenhagen, Denmark, assignor to Speed Products Company, Inc., Long Island City, N. Y., a corporation

Original No. 2,564,900, dated August 21, 1951, Serial No. 788,759, November 28, 1947. Application for reissue June 16, 1952, Serial No. 293,873. In Denmark November 1, 1947

4 Claims. (Cl. 85—49)



4. As a new article of manufacture, a one piece wire inverted U-shaped staple for clinching together layers of sheet material, comprising; bridge means and spaced depending legs at the ends of said bridge means and integrally merged therewith, said legs having pointed terminals, said bridge means comprising complementary components, attenuated web means substantially intermediate of said bridge means and integrally merged with adjacent inner ends of said components, said inner ends and web means defining a pair of upper and lower substantially vertically alined inwardly converging notches interrupting said bridge means and vertically spaced apart by said web means, said staple adapted to be folded for breaking said web means to separate said components.

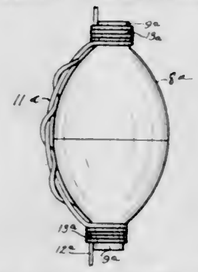
23,567

FISHING BOBBER

Edward Sokolik, New Brighton, Minn.

Original No. 2,578,852, dated December 18, 1951, Serial No. 692,247, August 22, 1946. Application for reissue January 11, 1952, Serial No. 266,017

6 Claims. (Cl. 43—44.94)



1. In a fishing bobber embodying an elongated float having axial stub ends, in combination with said float, of a spring wire of linear dimensions substantially greater than the distance between the opposite stud ends of the float, the intermediate portion of said wire between the stub ends of the float formed in a plurality of zigzag crimps extending in opposite lateral directions and following the contour of the adjacent portion of the bobber to receive and hold a fish line interwoven between adjacent crimps, each end of said wire formed into relatively tight resilient coils forming helical guides for the fish line on either side of the crimped portion of the wire, said coils also affording means for resiliently mounting the wire on the opposite stub ends of the float and holding the float on the fish line.

PLANT PATENTS

GRANTED OCTOBER 21, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,139

ROSE PLANT

Garret L. Jordan, Urbana, Ill., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application October 12, 1951, Serial No. 251,033

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, substantially as herein shown and described, characterized as to novelty by its upright habit of growth, its stiff neck and the great number of flowers produced thereby when grown under greenhouse conditions, and by the graceful form and Carmine general tonality of its blooms.

1,140

ROSE PLANT

Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application October 8, 1951, Serial No. 250,298

1 Claim. (Cl. 47—61)

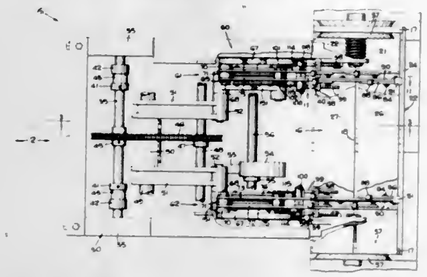
A new and distinct variety of rose plant of the climber class, substantially as herein shown and described, characterized as to novelty by the very Deep Rose Pink color of its flowers, by the prolific number of flowers produced in early spring and continuing throughout the season, and by the general similarity of its habits of growth to those of the variety "New Dawn" (Plant Patent No. 1).

PATENTS

GRANTED OCTOBER 21, 1952

GENERAL AND MECHANICAL

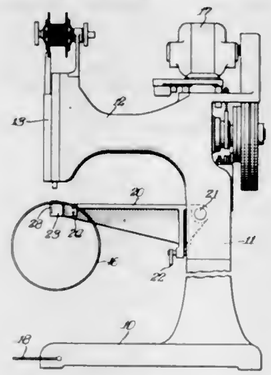
2,614,252
SIDE AND BOTTOM SLAT FEED FOR AUTOMATIC BOXMAKING MACHINES
Glenn E. Stillwell, Riverside, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 9, 1950, Serial No. 184,039
5 Claims. (Cl. 1—14)



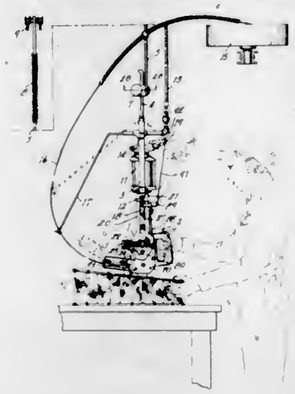
1. In an automatic box-making machine the combination of: a frame; a slat magazine on said frame; crosshead means horizontally reciprocable on said frame between retracted and slat delivering positions; a horizontal cam shaft rotatably mounted on said frame adjacent said retracted position; cams on said shaft; two pairs of slat feed arms pivotally mounted at their rear ends on said crosshead means, said arms being aligned respectively with and adapted to engage said cams to lift said arms when said crosshead means moves toward its retracted position; power means to reciprocate said crosshead means and rotate said shaft coordinately to position said cams to lift only one of said pairs of arms at a time and in a predetermined sequence; slat feed dogs on said arms for feeding slats from the bottom of said magazine when said arms are raised; means for latching each arm in raised position when said arm is lifted thereto by engagement with one of said cams; and means on said frame for releasing said latch means to lower the lifted pair of said arms when said crosshead means reaches said slat delivering position.

2,614,253
STITCHING MACHINE
Elmo P. Crim, Evergreen Park, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application January 24, 1951, Serial No. 207,521
13 Claims. (Cl. 1—177)

1. In a stitching machine for driving metal staples comprising a stitching head having staple driving means, an anvil arm having a free end extending beneath said stitching head, clinching means carried by the free end of said arm having a first position for supporting a work piece and operative to a second position to compress the work piece, means movable towards said clinching means and carried by said stitching head for operating said clinching means from said first position to said second position, said driving means being movable toward said clinching means for encircling the compressed work piece with a staple.

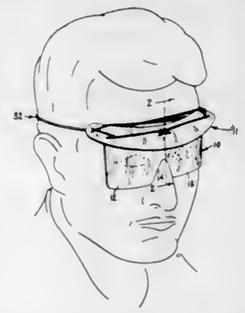


2,614,254
CLIP FORMING AND APPLYING MACHINE
Anthony Lenart and Bernard Heilman, Detroit, Mich., assignors to L. A. Young Spring & Wire Corporation, Detroit, Mich.
Application March 5, 1947, Serial No. 732,524
19 Claims. (Cl. 1—177)



1. A clip forming and attaching machine comprising a backing plate having a pneumatic motor mounted on one end thereof and with a grip carried on the other end thereof, a mandrel carried by said plate and projecting transversely from the lower end thereof, forming jaws carried on said backing plate and reciprocably driven by said motor to cut off a clip blank from a strip of stock and to form a previously cut blank into a clip about said mandrel upon the advancing stroke of said motor, means actuated by retracting motion of said forming jaws to advance the blank and clip formed thereby transversely along said mandrel, closing jaws carried on said backing plate and reciprocably driven by said motor to receive a previously formed clip from the end of said mandrel in the retracted position of said closing jaws and motor and advance said clip below said backing plate into engagement with members to be connected upon advancing motion of said motor, a spring carried by said backing plate and adapted to close said closing jaws and clip about the members to be connected, a manually operative control lever adjacent said grip for releasing said spring, a valve for said motor normally biased to admit air to advance said motor, a valve control member for reversing the position of said valve and admitting air to retract said motor and arranged to be actuated by movement of said spring to released position, and a spring-pressed lock member carried on said backing plate arranged to lock said valve control member in actuated position, said lock member having a portion engageable with a portion of said motor in the retracted position thereof to disengage said lock member from said control rod.

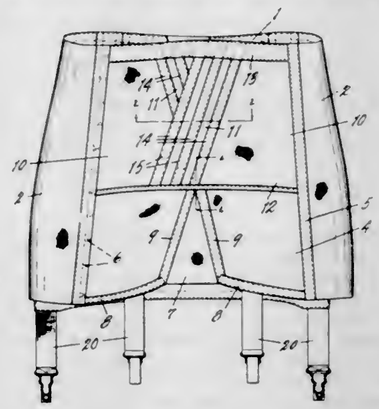
2,614,255
EYE PROTECTIVE DEVICE
Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application June 22, 1950, Serial No. 169,669
12 Claims. (Cl. 2—12)



1. In an eye protective device of the character described, visor means having perforations arranged therein, eye shield means embodying transparent light altering portions and having perforations arranged along its upper edge, and an elongated flexible member threaded through said perforations for hingedly connecting said eye shield means to said visor means and having its remaining portion sufficient to extend about the head of a wearer to form a headband for attaching the device to the head of a wearer.

2,614,256
BODY SUPPORTING GARMENT
Albert H. Searles, Kalamazoo, Mich., assignor to Grace Corset Company, Kalamazoo, Mich.
Application July 29, 1949, Serial No. 107,534
3 Claims. (Cl. 2—27)

3. In a body garment of the class described, rear, side and front portions, the front portion comprising a pair of boning panels connected at their outer vertical edges to the side portions, said boning panels having crossing inclined inner edges disposed between said outer vertical edges and extending between the upper and lower edges of the boning panels, each boning panel having a plurality of parallel boning pockets and boning elements in said pockets, the boning pockets and boning elements of one panel crossing the boning pockets and boning elements of the other panel, one of said boning pockets and a boning element therein of each boning panel being disposed parallel to and adjacent the inner edge of the panel,



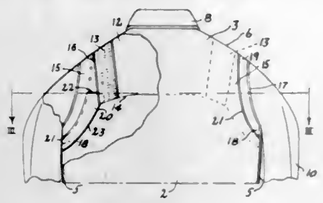
the inner edge portions of the overlapping boning panels adjacent said inner edges and intermediate the top and bottom edge of the panels being free to move relative to each other, the boning elements generally of one boning panel being disposed approximately on the same level with the level of the boning elements generally of the other boning panel.

2,614,257
LADY'S UNDERSLIP
Betty Kramer and Jonas Kramer, Rego Park, N. Y.
Application May 9, 1950, Serial No. 160,868
1 Claim. (Cl. 2—73)



An underslip adapted to be worn over a brassière and having a bodice portion and an integral depending skirt portion, said bodice portion comprising a front element having an upper edge portion extending above the bust line of a wearer, said front element having a pair of openings, one on each side of the vertical front median line thereof and being of such magnitude that the bust cups of an underlying brassière may extend therethrough without hindrance, means cooperating with the upper edge of said front element, to support the underslip upon the wearer, the lower edge of each opening extending from adjacent the median line of the garment arcuately downwardly and outwardly and at its outer end sloping upwardly adjacent the sides of the front element, the upper edge of each of said openings being substantially V-shaped and at its ends being connected to the ends of the respective lower edge.

2,614,258
GARMENT CONSTRUCTION
Marcus Breier, Amsterdam, N. Y., assignor to Marcus Breier Sons, Inc., Amsterdam, N. Y., a corporation of New York
Application August 26, 1950, Serial No. 181,622
3 Claims. (Cl. 2—93)



1. In a jacket or similar garment, the combination of a body including front and back portions, sleeves attached to the front portion at the arm hole area, said sleeves being substantially free of direct attachment to the back portion, a yoke member extending beneath the back portion and substantially concealed by the back portion, the yoke member including extensible portions spaced from one another, fabric pieces connecting the ends of the yoke member with the sleeves, second fabric pieces placed between the first fabric pieces and the back portion at opposite sides of the garment connecting the first fabric pieces and the back portion adjacent the lower rear portions only of the arm holes to provide ventilation for the wearer while substantially obviating penetration of rain into the garment through the armhole areas.

2,614,259
DEVICE FOR FORMING KNOTS IN NECKTIES
Warner H. Sorenson, Port Arthur, Tex.
Application May 21, 1949, Serial No. 94,707
1 Claim. (Cl. 2—153)



A knot forming and supporting device for Windsor type knots in neckties comprising: a generally triangular plate-like member, the front side of which is convex and the rear side of which is concave; tie retaining means extending substantially horizontally from corresponding points on the side edges of said member intermediate the upper and lower ends of said member, said means extending across at least the major portion of the rear concave surface of said member and spaced from said surface, said means and said member thus defining a substantially conically-tapered pocket for receiving the innermost portion of a Windsor type knot, the outer convex portion of said device forming a shaping and supporting member for the outermost portion of the knot.

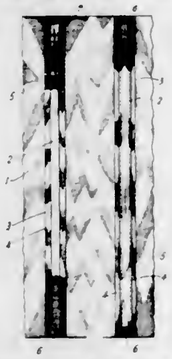
2,614,260
MULTIPLE POCKET PANEL CONSTRUCTION
Abraham Lipshitz, Flushing, N. Y.
Application January 27, 1950, Serial No. 140,790
1 Claim. (Cl. 2—253)

A unitary pocket panel for garments comprising a plurality of folds within a panel strip providing for a plurality of pockets. said folds lying at the top and forward edge of each pocket and at the bottom of each pocket, each of said pockets having a short front portion and a long back portion and connecting with the folds, the back portion of the lower pocket serving to space the top of the upper pocket from the top of the lower pocket, said pockets being of the same length whereby the bottom of the upper pocket is also spaced from the bottom of the lower pocket and the folds at the top of the pockets being stitched to provide outwardly-formed stiffened beads and an external false pocket having a



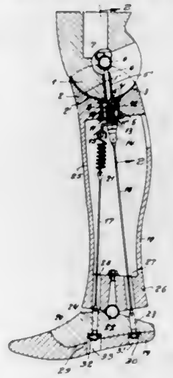
stitched external fold lying above the uppermost pocket and at the upper end of the longer portion thereof, said external fold of said false pocket being stitched with stitching generally parallel to the edge of the fold, thereby providing an outwardly extending stiffened bead and spaced from the top of the upper pocket a distance substantially equal to the distance between the top of the upper pocket and the top of the lower pocket to provide a symmetrical appearance.

2,614,261
TUBULAR CLOTH CASING
Edward F. McTighe, New York, N. Y.
Application September 30, 1950, Serial No. 187,811
2 Claims. (Cl. 2—255)



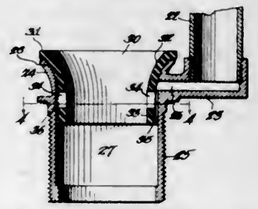
1. Cloth having a stay in the form of a long flat strip secured thereto, said stay being enclosed in an elongated tubular casing having a flattened longitudinally extending central sleeve with elongated lateral extensions of relatively little thickness united to the sleeve, one along each side of said sleeve, said casing being affixed to the cloth by stitches along said extensions adjacent said stay therein, said sleeve around the stay on both faces of the casing being of substantially the same thickness as the extensions, said casing having a binder thread at the junction of at least one extension with the sleeve, the stitches passing through the extensions into the cloth, said casing being also stitched to the cloth adjacent the ends of the stay and at points spaced from said end but near thereto, said sleeve being only slightly wider than said stay.

2,614,262
ARTIFICIAL LEG
Erich Feine, Ravensburg, Germany
Application October 24, 1950, Serial No. 191,824
In Germany October 29, 1949
20 Claims. (Cl. 3—2)



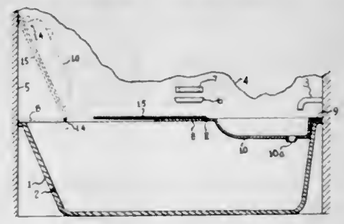
1. An artificial leg for thigh-amputees comprising in combination, a knee-joint; a braking device for said knee joint; a first actuator for said braking device; a second actuator for said braking device, said second actuator having a stronger action on said braking device than said first actuator; and a device for interconnecting said first actuator and said second actuator whereby by swinging the artificial leg about said knee-joint said first actuator acts on said braking device, and by loading the artificial leg by the weight applied to the heel or toe portion of the foot of the amputee, said second actuator acts on said braking device.

2,614,263
FLUSH TANK REPAIR SEAT
Samuel M. Kass, Philadelphia, Pa.
Application July 28, 1949, Serial No. 107,252
1 Claim. (Cl. 4—57)



A flush tank valve seat repair fitting adapted to cooperate with a flush tank valve seat having a flaring seat portion and a depending nipple portion and having an overflow pipe connected at one side beneath the flaring seat portion, said repair fitting being of rubber-like material comprising a lower radially apertured cylindrical wall, the aperture being adapted to provide drainage from an overflow pipe adjacent to the valve seat with which the repair fitting is intended to be used, an external gripping flange at one end of the cylindrical wall having an external diameter substantially larger than the internal diameter of the nipple portion of the said valve seat and larger than the external diameter of the cylindrical wall and therefore adapted to grip the inner wall of said nipple portion resiliently, an outwardly flaring valve seat portion merging with the cylindrical wall at the other end from the external gripping flange and a flat annular rim merging with the valve seat portion and adapted to rest on the valve seat, there being an open interior of the fitting from end to end.

2,614,264
BATHTUB ATTACHMENT FOR CARE OF BABIES
Carl H. Schmidt, Jr., Detroit, Mich.
Application March 14, 1950, Serial No. 149,509
4 Claims. (Cl. 4—185)



1. An attachment for an elongated bath tub laterally adjoining a wall, said attachment comprising a platform and a substantially horizontal mounting plate for such platform, both proportioned to seat on the sides of a bath tub in a bridging relation to such tub, and a hinge connection between said plate and platform having its axis transverse to the tube and affording the platform a raised position of non-use, said connection including a means for affording a limited sliding travel of the platform along said axis relative to the plate, and thus adapting the platform in its swinging travel to clear a device projecting from said wall.

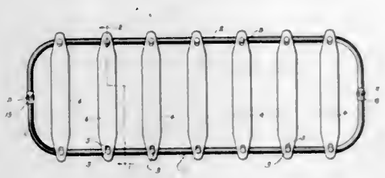
2,614,265
DISINFECTING DEVICE
Antone Nunes Vierra, Honolulu, Territory of Hawaii
Application August 24, 1948, Serial No. 45,85.
1 Claim. (Cl. 4—223)



In a disinfectant device for toilets, a hollow casing, a tab extending from said casing and adapted to be attached to a supporting structure, an elongated neck arranged in the lower portion of said casing, a throttle valve mounted for movement into and out of closing relation with respect to said neck, a chamber arranged in threaded engagement with said neck, said neck extending approximately half way down into said chamber member to form an air lock with the liquid retained in the chamber member whereby the

amount of disinfectant available for discharge is regulated, a tube having its upper end arranged in engagement with said chamber member and its lower end adapted to extend into a toilet bowl below the normal level of the liquid, a threaded nipple mounted on the upper end of said casing, and a cap arranged in threaded air-tight engagement with said nipple.

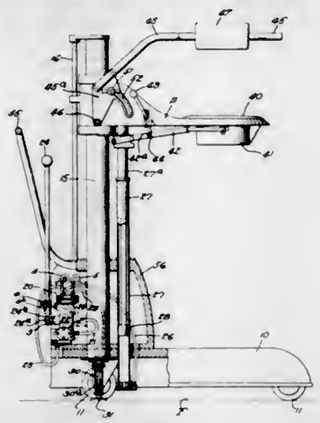
2,614,266
STRETCHER
Orson P. Smith, Seattle, Wash., assignor, by mesne assignments, to Smithway Machine Co., Inc., Seattle, Wash., a corporation of Washington
Application April 19, 1948, Serial No. 21,840
5 Claims. (Cl. 5—82)



4. A stretcher comprising a frame including a pair of similar members each having a central portion and inturned ends, a set of anchoring means secured to each central portion at spaced intervals therealong, hinges joining corresponding inturned ends and having means limiting the upward swinging movement of the members about the longitudinal axis of the frame to a first position wherein said anchoring means on the central portions are at the greatest distance apart, and a plurality of flat, flexible cross strips positioned transversely of said members and having formations in the end portions thereof to releasably engage said anchoring means, said strips having such stiffness as to be readily pushed endwise between a prone person and a supporting surface, each formation including a portion non-releasably engaging one of the anchoring means on said frame when the members are in said first position for supporting a person, said members being swingable from said first position to a second position wherein said anchoring means are at a lesser distance apart than in said first position, each formation including another portion permitting independent removal of the corresponding end portion from its anchoring means.

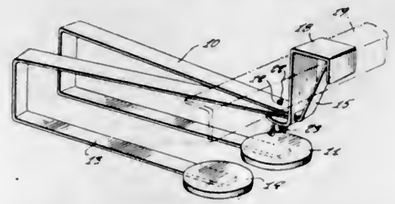
2,614,267
LIFTING DEVICE FOR INVALIDS
Frank B. Perri, Groveland, Mass., assignor to Sarah L. Cartier, Haverhill, Mass.
Application December 26, 1946, Serial No. 718,586
11 Claims. (Cl. 5—86)

1. A device for lifting and moving invalids, comprising a wheeled frame having a horizontal base to extend under a bed, a rigid vertical post mounted on said frame, a horizontal support for an invalid mounted on said post for vertical movement thereon, said support including a vertical guide portion and a seat integral therewith and arms each of which is pivotally mounted on said support for adjustable movement about a horizontal axis, for supporting said invalid sideways thereon in sitting, semi-reclining or fully reclining position, and power means operating



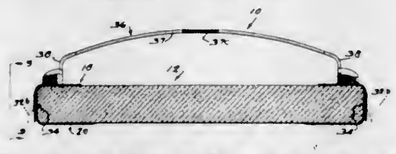
directly on said support for lifting said support on said post.

2,614,268
SLIPPER HANGER OR RACK ATTACHMENT FOR BEDS
Samuel D. Davies, Hanover, N. H.
Application March 27, 1950, Serial No. 152,236
3 Claims. (Cl. 5—317)



1. A slipper and shoe hanger attachment for a bed, including U-shaped hanger members individually having substantially horizontal lower legs terminating in slipper and shoe supporting portions and upper legs terminating in attaching portions, means pivotally interconnecting the attaching portions to allow the legs and their slipper and shoe supporting portions to be brought together or separated by sidewise swiveling about the pivotal connection between them, and means for attaching the attaching portions to a substantially horizontal rail upon a bed.

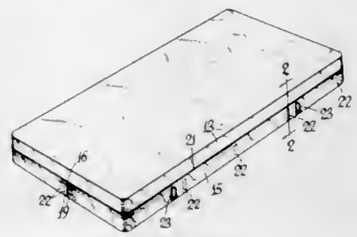
2,614,269
BEDDING SUPPORT
Paul C. Hougham, Visalia, Calif., assignor of twenty per cent to Gareth W. Houk, Visalia, Calif.
Application May 19, 1950, Serial No. 162,990
4 Claims. (Cl. 5—319)



1. The combination with a mattress having bedding thereon, of a device for support of said bedding in partial clearance of one end of said mattress, said device comprising a bow positioned

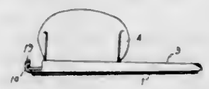
intermediate the ends of said mattress and the bed clothes thereon and extending there-across, a pair of angle plates in inter-locked union upon each side of said mattress and adapted to be detachably engaged therewith, and swivel means upon an upper plate of each of the pair thereof, said swivel means being so constructed and arranged as to support said bow for rotational movement to and from a functional use position.

2,614,270
SHEET HOLDER FOR MATTRESS ENSEMBLES
Warren W. Rosing, Buffalo, N. Y.
Application June 8, 1951, Serial No. 230,447
8 Claims. (Cl. 5—320)



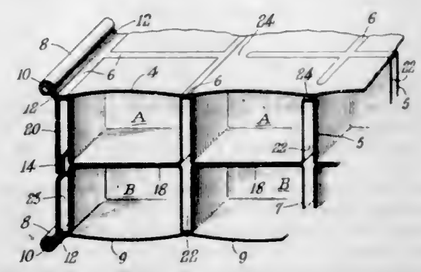
1. A mattress ensemble consisting of a mattress, a supporting element upon which the mattress rests and bottom sheet holding means carried by and cooperating with the mattress supporting element, such means comprising a strip of fabric extending adjacent the sides and at least one end of the supporting element and having its lower edge portion attached to the supporting element adjacent its bottom, the strip cooperating with the adjacent vertical faces of the supporting element to provide a continuous externally located pocket for the reception of the pendant parts of the sheet and of a depth in which said parts may be fitted in flat relation with mitered corners, the strip providing flexible outer walls of the pocket and the vertical faces of the mattress supporting element adjacent the strip providing fixed inner walls of the pocket, the lower edge portion of the strip as attached to the supporting element providing a closed bottom for the pocket, a band of elastic material carried by the strip near its upper edge and normally positioned with its axis in a horizontal plane parallel to the plane of the supporting surface of the mattress, the band being adjacent the vertical faces of the supporting element opposed to the strip and being maintained under tension by the supporting element, the band as maintained under tension by the supporting element being substantially lineally coextensive with the strip, the strip being provided with a continuous sheath open at its ends and in which the band is loosely fitted, the strip and the band being manually pulled laterally away from the supporting element to open the pocket to a suitable extent for the insertion of the pendant parts of the sheet, the strip and the band having a relative sliding action when they are pulled laterally away from the supporting element, the strip having terminal portions which yield relatively to one another when the strip and the band are pulled away from the supporting element, and elastic means so connected to the terminal portions of the strip as to maintain the strip normally in flat relation adjacent the vertical faces of the supporting element opposed to the strip, the band at such time being in adjoining relation to the pendant parts of the sheet within the pocket and cooperating with the adjacent vertical faces of the supporting element in exercising retaining pressure upon such parts, said elastic means serving to return the strip to its normal flat relation adjacent the vertical faces of the pocket when the strip is finally released after being pulled away from the supporting element in connection with the making of the bed.

2,614,271
HEADREST FOR CREEPERS
Robert Harvey Neil, Tampa, Fla.
Substituted for abandoned application Serial No. 72,389, January 24, 1949. This application March 19, 1951, Serial No. 216,371
1 Claim. (Cl. 5—327)



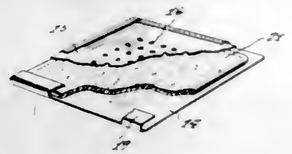
An article of manufacture comprising a base member adapted for attachment to the upper surface of a creeper, a top member hinged at one end to the base member and having a flange along its edges on the surface confronting the base, a latch adapted to secure the free end of the top member to the base when they are adjacent to each other, a plurality of ratchet lugs on the base, a brace member having one end hinged to the top member and having its opposite end adapted to engage any selected ratchet lug on the base, and a lever pivoted at one end to the base member and lying beneath a portion of the free edge of the brace member for engagement therewith when the lever is lifted to release it from any lug with which it may be in contact.

2,614,272
UPHOLSTERY UNIT
Hans George Morner, New York, N. Y.
Application April 15, 1947, Serial No. 741,579
2 Claims. (Cl. 5—348)



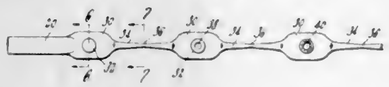
1. An air-filled upholstery unit comprising two contiguous layers, positioned one over the other, of closely adjacent similar cells having walls formed of flexible impervious sheet material, the side walls and inner end wall of each cell in each layer molded of a single sheet of said material, the outer end wall of said cell in each layer formed of a single sheet of said material the outer sheets in the two layers forming respectively the top and bottom surfaces of said unit, the cells adjacent the margins of the unit being non-interconnecting, while the other cells are interconnected with each other.

2,614,273
WATERPROOF DRAIN PAD FOR CHILDREN'S CRIBS
Genevieve A. Yancofski, College Point, N. Y., assignor to Archie H. Hubert, College Point, N. Y.
Application September 28, 1950, Serial No. 187,185
1 Claim. (Cl. 5—354)



A drain pad assembly comprising a covering formed of a perforated top piece and a closed bottom piece, said pieces being secured together except upon one side thereof whereby to provide for a pocket opening, said bottom piece having a closure flap folded into the pocket opening and an absorbent pad disposed between the pieces and under the closure flap, and binding tape extending around the sides of the pieces and over the ends of the closure flap to secure the pieces and the latter together.

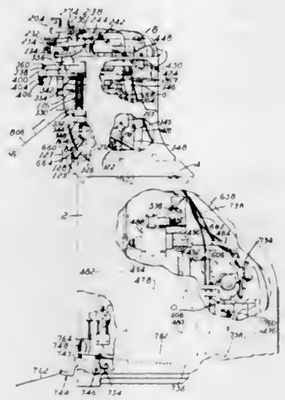
2,614,274
METHOD OF MAKING WING NUTS
Harrington Moore, Medford, Mass.
Application December 8, 1948, Serial No. 64,091
2 Claims. (Cl. 10—86)



1. A method of making wing nuts, which comprises flattening successive portions of rod or bar stock and simultaneously forming a central boss on each of some of said flats, forming a threaded hole through each said boss, shaping the flats on either side of the boss into wings, and bending the wings up above the plane of the bottom of the boss.

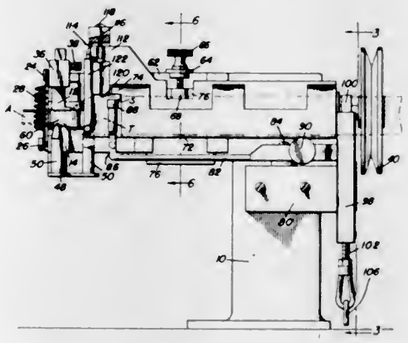
2,614,275
LASTING MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 9, 1949, Serial No. 80,435
90 Claims. (Cl. 12—10.1)

59. In a lasting machine, grippers for gripping the marginal portion of the upper of a shoe on a last at the opposite sides of the last respectively and for pulling the upper in a cycle of power operations of the machine, fluid-operated means for imparting to said grippers positioning movements in directions away from each other widthwise of the last after the shoe has been presented to the machine but before they grip the upper, a valve for admitting operating fluid to said fluid-operated means, a pump for normally circulating operating fluid without developing any substantial fluid pressure, a valve for interrupting such circulation of fluid to cause the development of fluid pressure, solenoids associated respectively with said different valves for operating them electrically, switches for closing respectively the electrical circuits of said solenoids, means movable by the shoe thus to operate both said switches in the presentation of the shoe to the machine, a clutch arranged to be actuated to start the cycle of oper-



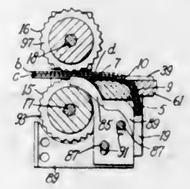
ations, and fluid-operated means also controlled by said first-named valve for thus actuating said clutch.

2,614,276
BINDING MACHINE
Adrien L. Jalbert, Lewiston, Maine, assignor of fifty per cent to Emile R. Jalbert, Lewiston, Maine
Application June 19, 1950, Serial No. 168,869
10 Claims. (Cl. 12—17)



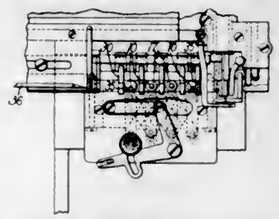
2. A binding machine comprising upper and lower vertically swingable hammers, a vertical spool paralleling said hammers and located behind said hammers, said spool having upper and lower flanges adapted to receive therebetween an article to be bound, said hammers adapted to tamp a binding tape on an article received between the hammers and the upper and lower flanges, a horizontally disposed vertically slidable guide on the machine, means connected to said guide for vertically adjusting the guide, a binding-tape gauge on the machine at one end of the guide, means operatively connected to said hammers for selectively swinging the hammers toward and away from each other, and additional means on the machine for tensioning binding tape that is forced against the spool by an article received between the hammers.

2,614,277
MACHINE FOR SLITTING THE MARGINS OF SHOE UPPERS
Jesse Gudger, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 9, 1952, Serial No. 265,651
In Great Britain February 1, 1951
8 Claims. (Cl. 12—51)



1. In a machine for slitting the margins of shoe uppers, means for feeding the margin of the toe end of a multi-ply upper intermittently in a direction lengthwise of its edge, an upper-slitting knife mounted for reciprocatory movements in a path intersecting the margin of the upper from its edge inwardly to form slits in all the layers of the upper materials in time relation to the feeding thereof, and means for detaching from the inner layer of the upper materials the portions of that layer between the slits.

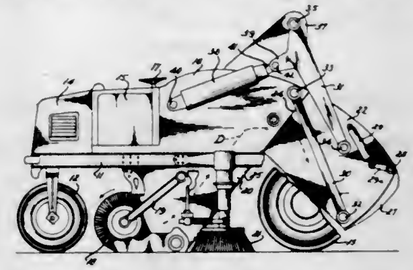
2,614,278
SHOE UPPER LACING MACHINE WITH ECCENTRICALLY MOUNTED NEEDLES
Arthur Alan Rivington, Leicester, England, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 19, 1951, Serial No. 252,105
In Great Britain November 17, 1950
4 Claims. (Cl. 12—69.5)



1. A machine for lacing shoe uppers having a row of parallel needles, means cooperating therewith to form a series of loops in a lacing cord, rotatable spindles to which the needles are clamped and mechanism for rotating each spindle between two positions at an angle to each other, in combination with mountings for the needles on the spindles in which each end needle of the row is disposed eccentrically to the centers of rotation of the respective spindles to bring the needles into a curved row when in one rotary position.

2,614,279
STREET SWEEPING MACHINE
Carl W. Mott, La Grange Park, Ill., assignor to Elgin Sweeper Company, Elgin, Ill., a corporation of Illinois
Application January 2, 1948, Serial No. 175
7 Claims. (Cl. 15—83)

1. In combination in a street sweeping machine including a body having an obliquely upwardly and forwardly arranged open front face portion, means for sweeping a surface over which the machine is directed and delivering the sweepings to said open front face portion, a dirt bucket having its major axis normal to said oblique front face portion and having its upper end cooperatively related to said oblique front face portion to receive the sweepings, and means



connecting the dirt bucket to the sweeper body for movement bodily of the bucket into an elevated position separated from said front face portion, said bucket having a removable portion at an end remote from said open face portion displaceable, when the bucket is elevated, for the discharge of the bucket contents.

2,614,280
CLEANING MOP HOLDER
John H. Goesmann, Chicago, Ill.
Application September 27, 1947, Serial No. 776,551
1 Claim. (Cl. 15—154)



In a cleaning mop holder, a circular-shaped handle clamp for supporting the mop holder on a handle, a plurality of spring wires each having one of its ends attached to the inside surface of said handle clamp, said spring wires being spaced apart around said handle clamp and projecting outward from and parallel to said handle clamp for a short distance from which point they are bent and normally stressed inward toward one another to a common junction point, said spring wires also extending divergently outward from said junction point, and being normally stressed apart so that their free ends are spaced a substantial distance apart, a hook formed on the free end of each spring wire and projecting inward, and a slidable ring encircling all of said spring wires at the junction point adapted to be slid outward to compress said spring wires together and firmly grip a cleaning cloth between said hooks, said wires being so arranged and being

assisted by the stresses therein at the junction point, that they are twisted spirally in overlapping relationship as said ring is slid outward upon them, the degree of twisting action depending upon the different thicknesses of the cleaning cloth embraced by said hooks, whereby said hooks are caused to be radially shifted in said cleaning cloth to a position approximately 90° from their initial penetration of said cloth.

2,614,281
ALLEY SWEEP FOR TEXTILE MILLS
Horace E. Clark, Atlanta, Ga.
Application August 18, 1949, Serial No. 110,903
2 Claims. (Cl. 15—160)



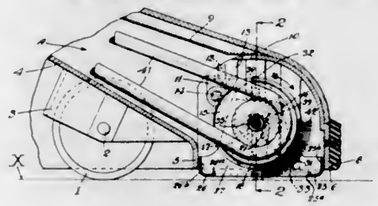
1. A floor brush comprising a pair of elongated brush members, a hinge structure pivotally connecting a respective end of the brushes to each other for opening and closing movement, said hinge structure including a hinge pin, a bar fixed to each brush member and crossing each other at the hinge pin and pivoted on the latter, said bars projecting beyond the pivoted ends of the brushes, an upwardly inclined arm at the projecting end of each bar, and a pair of handles having front ends pivoted to the arms and pivoted to each other in crossed relation adjacent their front ends.

2,614,282
DETACHABLE BROOM HOLDER WITH REPLACEABLE BROOM HEAD
Manuel Z. Román, New York, N. Y.
Application May 19, 1950, Serial No. 162,848
1 Claim. (Cl. 15—176)



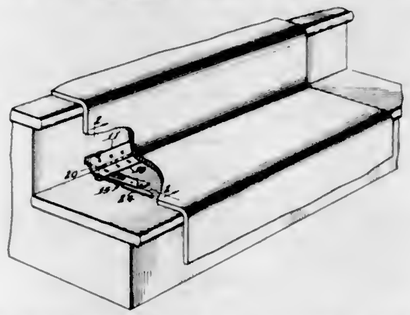
A broom comprising a head including a pair of complementary, substantially triangular plates of material thickness having flat, opposed face portions and further having complementary threaded grooves in their apices defining a socket for the reception of a handle, one of said plates still further having a plurality of apertures therein, connecting pins fixed on the other plate and engageable in the apertures, an integral shell portion depending from said one plate, a complementary shell portion hingedly suspended from said other plate, said shell portions defining a chamber, a brush having an end portion engaged in the chamber between the shell portions, and means for closing said shell portions on the brush for clamping same in the head.

2,614,283
AUTOMATIC NOZZLE ADJUSTMENT FOR VACUUM CLEANERS AND THE LIKE
Everett D. Thornwald, Chicago, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a corporation of Illinois
Application July 8, 1949, Serial No. 103,708
6 Claims. (Cl. 15—359)



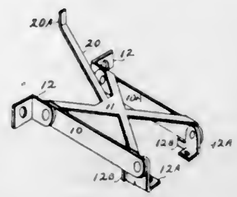
6. In a nozzle structure for suction cleaners, an outer intake nozzle and means for normally supporting it at a normally fixed and predetermined distance from the surface to be cleaned, an inner nozzle structure movably positioned within said normally fixed outer nozzle, a brush supported and mounted for rotation on said inner nozzle structure, a driving belt extending about said brush, a guiding connection between said inner nozzle structure and said outer intake nozzle, and an additional connection between the inner nozzle structure and the outer nozzle, including a flexible connection having a component positioned and adapted, in response to the dynamic tension of the driving belt, to urge the movably positioned nozzle structure downwardly toward the surface on which the suction cleaner is positioned.

2,614,284
CARPET FASTENER
Arnold C. Eichin, Elmhurst, Ill., assignor to Arnold C. Eichin, Incorporated, Chicago, Ill., a corporation of Illinois
Application January 10, 1949, Serial No. 70,120
7 Claims. (Cl. 16—10)



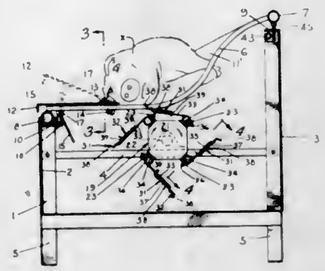
1. A stair carpet fastener comprising a pair of hinged members, each of which is bent longitudinally, carpet-engaging projections on said members along the bend therein, and means for drawing said members together whereby said carpet-engaging projections engage the lower surface of the carpet and draw the same tightly into the joint between said members.

2,614,285
HINGE
Wortham A. Snell, Detroit, Mich.
Application July 6, 1950, Serial No. 172,316
1 Claim. (Cl. 16—164)



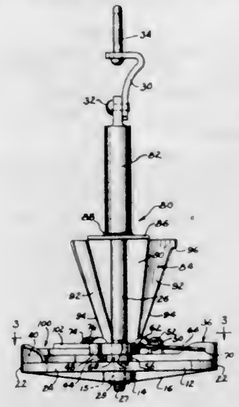
A concealed hinge for a vertically swinging closure member for an open top container, said hinge comprising a rectangular frame, hinge means adapted to connect said frame to the inside of said closure member and other hinge means adapted to connect the frame to said container, the latter hinge means including stops against which said frame rests when the closure member is fully open, and means carried by said frame for preventing return movement of said closure member when said frame is on said stops.

2,614,286
ANIMAL CARCASS DEHAIRING MACHINE
Henry A. Ittel, Howard Lake, Minn.
Original application January 26, 1949, Serial No. 72,969. Divided and this application July 7, 1950, Serial No. 172,540
4 Claims. (Cl. 17—16)



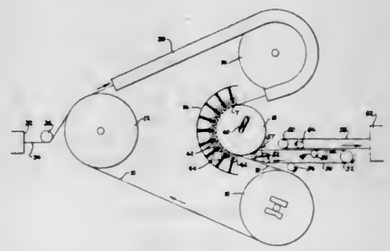
1. In a machine of the class described, a frame, an elongated generally horizontal animal-supporting cradle supported by the frame, said cradle having spaced transversely extending rotor scraper receiving slots, a frame-journalled dehairing rotor disposed below the cradle on an axis generally parallel to the cradle and having axially-spaced dehairing scrapers working through the slots in the cradle, the cradle being gravity seated on the frame with freedom for bodily upward movements with respect to the rotor, and means limiting lateral movements of the cradle with respect to the frame under limited upward movements thereof with respect to the frame.

2,614,287
POULTRY SHACKLE
Edward J. Crane, Ottumwa, Iowa, assignor to Barker Poultry Equipment Co., Ottumwa, Iowa, a corporation of Iowa
Application June 25, 1949, Serial No. 101,469
12 Claims. (Cl. 17—44.1)



1. In a shackle of the character disclosed, a base, a stem secured to said base, a gripping member pivotally mounted on said base, said gripping member forming leaves having cut-out portions, said base having cut-out portions, said gripping member, and thereby said leaves, being swingable into and out of a first position, which first position is where the respective cut-out portions in said leaves and cut-out portions in said base form leg holding elements, and wedge means slidably mounted on said stem and reactable between said gripping member and said base for swinging said gripping member out of said position.

2,614,288
APPARATUS AND METHOD FOR PRODUCING THERMOPLASTIC FIBERS
Marc A. Chavannes, New York, N. Y., assignor, by mesne assignments, to Chavannes Synthetic Fibres, Inc., a corporation of Delaware
Application March 28, 1947, Serial No. 737,962
12 Claims. (Cl. 18—5)



10. Apparatus for forming fibers comprising an advancing carrier, means for applying a thermoplastic film to said carrier, an oven adapted to heat said film to a semi-fluid state, a roller provided with a plurality of adjacent circumferential hoops of circular cross-section having grooves therebetween, said grooves being deeper than the thickness of said film, said roller being

adapted to engage said film on said carrier and to divide it into elongated bodies having at least one diameter greater than the thickness of said film and to mould said bodies to have a substantially flat side adjacent said carrier and two approximately concave sides adjacent said hoops, said sides being joined by rounded edges.

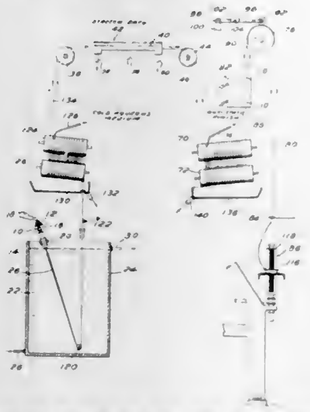
2,614,289

FIBER-FORMING APPARATUS

Arthur Cresswell, Stamford, and Irvin Wizon, Springdale, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Original application June 8, 1949, Serial No. 97,786. Divided and this application February 27, 1951, Serial No. 212,929

5 Claims. (Cl. 18—8)



1. Apparatus suitable for use in manufacturing synthetic, flexible, elongated articles comprising means for producing such an article in gel form; a first rotative means adapted to receive and support the gelled, elongated article and to advance it in a helical path toward the take-off end; means for wet-stretching said gelled, elongated article after it leaves the take-off end of said first rotative means; a second rotative means adapted to receive and support the stretched, elongated article and to advance it, while under tension, in a helical path toward the take-off end; means for drying the stretched, gelled, elongated article while it is moving in a helical path toward the take-off end of said second rotative means; a heat-treating furnace in operative relationship with the take-off end of said second rotative means and separate therefrom; means for moving the dried, elongated article through said heat-treating furnace; and means for relaxing the tension on said dried, elongated article so that the article is free to contract linearly as it passes through said heat-treating furnace.

2,614,290

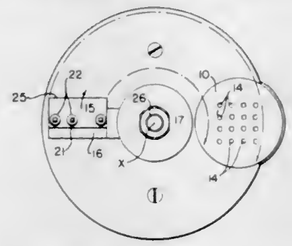
PELLET-CUTTING MECHANISM

Louis F. Street, Philadelphia County, Pa., assignor to Welding Engineers, Inc., Norristown, Pa., a corporation of Delaware

Application February 8, 1950, Serial No. 142,955

6 Claims. (Cl. 18—12)

1. A pellet-forming mechanism comprising a rotary cutter arm having a predetermined axis of rotation, an extruding die having lines of extruding orifices in a group at one side of said axis and spaced therefrom a distance greater than the greatest radial extent of said group from the innermost to the outermost orifice and occupying not more than 40° of the circular path of the cutter arm, and a cutter blade carried by the end of said arm and having a cutting edge in a substantially radial plane and extending at



an acute angle to the radii from said axis so that said edge extends in a generally radial direction through said group of orifices and moves circularly across all of the orifices at a speed of at least 500 feet per minute and at relative linear velocities differing by less than 2 to 1.

2,614,291

WITHDRAWN

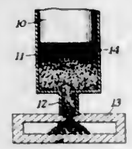
2,614,292

THERMOPLASTIC COMPOSITIONS OF IMPROVED IMPACT STRENGTH AND METHOD FOR THEIR PRODUCTION

Robert F. Williams, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 9, 1948, Serial No. 59,106

10 Claims. (Cl. 18—47.5)



8. A molding composition comprising granules of cellulose acetate butyrate having thereon a thin coating of a second cellulose acetate butyrate of higher acyl content.

2,614,293

METHOD OF MAKING BALLOONS

Vilho Väisälä, Helsinki, Finland

Application November 22, 1949, Serial No. 128,751

In Finland January 18, 1945

9 Claims. (Cl. 18—58.7)



1. A method of manufacturing a hollow article having a neck-shaped tubular portion comprising in combination, the steps of producing a coherent film on the outer and inner surfaces of a hollow deposition form having a neck-shaped portion containing an air passage by immersing said deposition form into a liquid substance adapted to form an elastic solidified film when dried; closing airtightly the opening in said film formed on the nozzle of said air passage; airtightly attaching the neck-shaped tubular portion of said film formed on the outside of said neck-shaped portion of said deposition form to the same; inflating said film so as to increase its size whereby said film forming a deposit on the surface of said deposition form is separated from it; drying said thus inflated film so as to form an inflated hollow elastic article having an elastically stretchable neck-shaped tubular portion; and removing said deposition form through the elastically stretchable neck-shaped tubular portion of said article.

2,614,294

DOOR FOR REFRIGERATOR CARS

Arthur F. O'Connor, Chicago, Ill., assignor to Union Asbestos & Rubber Company, a corporation of Illinois

Application June 7, 1946, Serial No. 675,049

4 Claims. (Cl. 20—23)



1. A door for refrigerator cars and the like having a door opening in a side wall and tracks extending above and below the door opening comprising a door panel adapted to fit in the door opening, bars adjacent the opposite edges of the door panel mounted on the tracks for sliding and rotating movement, crank arms carried by the bars and pivotally connected to the door panel to move the door away from the opening when the bars are turned, projecting lugs on the bars and parts of the edge portions of the door to engage the lugs so that they will support the door panel when it is moved away from the opening.

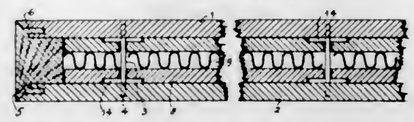
2,614,295

REINFORCED DOOR OF WOOD AND/OR INSULATION MATERIAL

Johannes Brynjulfsen Een, Oslo, Norway; vested in the Attorney General of the United States

Original application October 23, 1940, Serial No. 362,468. Divided and this application May 6, 1946, Serial No. 667,698. In Norway August 2, 1939

1 Claim. (Cl. 20—35)



A reinforced door and hinge construction comprising a door including a pair of spaced panels, a metal reinforcing bar between and spacing said panels and recessed within the edges of said panels, a sheet metal channel-shaped cover having side and edge walls secured around the edge portions of the sides and the edge of said door, said door cover enclosing said bar with the inner surface of said cover edge wall spaced from the outer surface of said bar, the edges of said cover being inturned and embedded in said panels to seal the edge of the door, a leaf hinge having a plurality of parallel slots extending inwardly from the free edges of the door hinge to divide the leaf into a plurality of tongues, said metal cover having aligned openings in one side wall adjacent the edge wall thereof, said leaf hinge tongues being respectively inserted through said openings with the tongues sandwiched between the inner surface of said edge wall and the outer surface of said bar, and screws extending through said edge wall and said tongues and threaded into said bar.

2,614,296

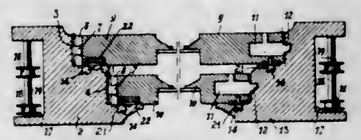
WINDOW CONSTRUCTION

Céline Van der Pelen and Leo Freudenberg, Brussels, Belgium

Application December 7, 1946, Serial No. 714,768

In Belgium January 9, 1946

2 Claims. (Cl. 20—42)



1. A window construction comprising: a frame including two upright portions, at least two sashes movable relative to said frame, said sashes being arranged in different planes and being of different width, a first hinge connecting one side of the first sash with one of said upright portions of the frame, a second hinge connecting one side of the second sash with the same upright portion of the frame, each of said hinges including sliding means for lifting and lowering said sashes and including pivots for swinging said sashes about a vertical axis, the pivots of said two hinges being offset relative to each other for a distance in excess of the thickness of the sash and sufficient to permit swinging of both sashes from a normal inward position into an outward position through an angle of at least 90°, a first guiding element connected with said first sash near said first hinge connection, a first sliding body connected with said first guiding element, a second guiding element connected with said second sash near said second hinge connection, a second sliding body connected with said second guiding element, said upright portion of the frame having a first vertical groove slidably receiving said first sliding body and having a second vertical groove slidably receiving said second sliding body, each of said guiding elements being operable to guide the associated sash to and from its outward position, flexible actuating means connected with said sliding bodies, and locking means arranged at the other side of each of said sashes for cooperation with the other upright portion of the frame so as to lock and unlock said sashes.

2,614,297

TENSIONING DEVICE FOR STORM WINDOWS

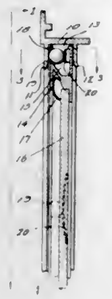
Walter M. Krantz, Ferndale, Mich.

Application June 29, 1949, Serial No. 101,980

2 Claims. (Cl. 20—55)

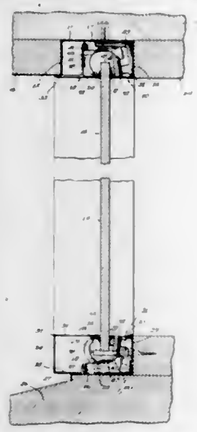
1. In a storm window sash adapted for support between a pair of spaced, parallel frame flanges, the combination comprising: a pair of peripherally extending, spaced, parallel sash flanges adapted to be received between said frame flanges, and an opening through one of said sash flanges; a leaf spring element engaging the other sash

flange at a point opposite said opening and having a portion thereof intermediate its ends positioned to intersect the projected axis of said opening; a ball of diameter larger than the diameter of said opening but small enough that it will extend through said opening and beyond the sash



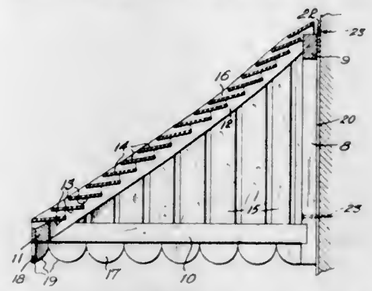
flange containing said opening, the thickness of said sash flange being substantially less than one-half the diameter of said ball; said leaf spring being curved away from said other sash flange by such a distance that it engages said ball and holds it against the edges defining said opening.

2,614,298
SASH HOLDING BRACKET
Morris Ketchum, Jr., New York, N. Y., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Original application March 23, 1946, Serial No. 656,675. Divided and this application December 4, 1948, Serial No. 63,563
4 Claims. (Cl. 20—56.4)



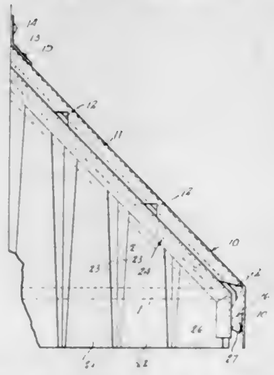
2. As an article of manufacture, a holding bracket for a metal window sash, the bracket comprising a single integral piece of relatively thin, stiff metal having an inner end portion consisting of a base and an inclined cam, with a reverse bend interconnecting the base and cam at their inner end, a glass holding arm attached to the base and extending outwardly and away from the plane of the base and terminating in a hook adapted to engage an inner edge of the sash and urge it inwardly; and a sash holding arm attached to the inclined cam and extending from the inclined cam outwardly and toward the plane of the base and passing across the glass holding arm, said sash holding arm terminating in a hook adapted to engage the sash at a point remote from the aforesaid inner edge thereof.

2,614,299
AWNING OR CANOPY
Erwin A. Lowe, Santa Rosa, Calif.
Application May 7, 1948, Serial No. 25,766
1 Claim. (Cl. 20—57.5)



A rigid ventilated covering for doors or windows comprising a frame structure adapted to be mounted on the exterior of a building adjacent to and over a door or window and constructed and arranged to admit a relatively large amount of air and light therethrough, said frame structure including outwardly and downwardly extending rafters having outwardly and downwardly inclined steps in the upper surfaces thereof, and slats secured to said steps and projecting outwardly therefrom in spaced overlapping relationship to one another to provide spaces therebetween for the passage of air and light through the device, said slats each being of approximately twice the width of the steps to overlie approximately a half of the slat disposed therebeneath, each of said rafters being uniformly bowed throughout its length, each of said steps being of the same length and being spaced the same distance from the inner arcuate edge of its rafter, the inclination of the steps and of the slats secured thereto varying whereby the amount of light and air admitted through the door or window covering will be varied in different portions of the covering.

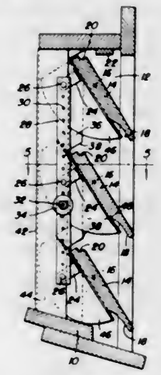
2,614,300
AWNING
Charlie F. Stinnett, Huntsville, Ala.
Application August 3, 1948, Serial No. 42,273
1 Claim. (Cl. 20—57.5)



In an awning, a pair of laterally spaced end frames, a plurality of inverted U-shaped plates secured to the end frames, said U-shaped plates having vertical side flanges along a side thereof, and louvre plates having outset central portions and vertical wings on opposite sides there-

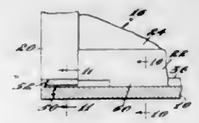
of, the side portions of the outset portions of the louvre plates being engaged with side flanges of adjacent U-shaped plates with the wings engaged with the end frames.

2,614,301
LOUVER CONSTRUCTION
Delbert O. Axtell, West Palm Beach, Fla.
Application September 1, 1949, Serial No. 113,649
1 Claim. (Cl. 20—62)



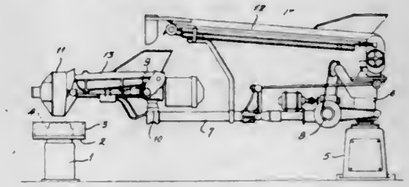
A louver construction comprising a pair of vertical side members, a plurality of panels, horizontal pivots securing the ends of the panels to the members, a pair of vertical strips mounted on the inner faces of the members between said rear edges and said pivots, said strips having a plurality of notches therein receiving the ends of the panels during pivoting of the panels and said notches including vertically inclined lower walls constituting abutments for the ends of the panels, a pair of vertical plate members paralleling the side members and including flanges secured to the strips, and a pair of vertical plates attached to and projecting laterally from each of the panels at the ends thereof and received between said strips and said plate members.

2,614,302
JOINT FOR FURNITURE CONSTRUCTION
Howard E. Johnson, South Ashburnham, Mass., assignor to W. F. Whitney Company, Inc., South Ashburnham, Mass., a corporation of Massachusetts
Application March 16, 1949, Serial No. 81,685
2 Claims. (Cl. 20—92)



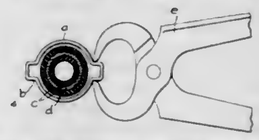
1. In an article of furniture a joint connecting two parts in abutting relation, without interposition of adjunctive elements, characterized in that one member has formed in it a mortise of given depth extending inwardly from one edge and terminating short of any other edge, a major portion of said mortise being of rectangular cross section and the remainder near the terminal end having inclined re-entrant walls, that the other member has at its abutting end an integrally formed tenon, a portion of which is of rectangular cross section and is slidably engaged within the rectangular portion of the mortise and another portion of which has a dovetail cross section, the inclined walls of which are the converse of that portion of the mortise having the re-entrant walls and is situated therein and a body of bonding material uniting the inclined walls of the dovetail portion of the tenon with the inclined walls of the mortise, said rectangular portion of the mortise and tenon being free of bonding material and free to come and go relative to each other.

2,614,303
MOLDING PROCESS
William M. Duncan, Alton, Ill., assignor to Duncan Foundry and Machine Works, Inc., Alton, Ill., a corporation of Illinois
Application September 21, 1949, Serial No. 117,035
2 Claims. (Cl. 22—197)



1. In the art of founding, the process of making sand molds in a flask having its bottom closed by a match plate, said flask having its top open, which comprises, depositing facing sand into the flask through the open top thereof to cover the pattern therein, jolting the flask up and down for about a minute to compact the facing sand therein around the pattern, and thereafter slinging wads of backing sand from above into the flask through the open top thereof and upon the jolted facing sand, to further compact the facing sand and fill the flask.

2,614,304
HOSE CLIP
Hans Oetiker, Horgen, Switzerland
Application November 28, 1951, Serial No. 258,551
In Switzerland June 1, 1951
7 Claims. (Cl. 24—20)



1. A closed compression metal band comprising curved portions and yieldable substantially radial portions having the configuration of a U when the band is in uncompressed state, the ends of the legs of the U being individually connected with said curved portions, the ends of the legs of the U being squeezed towards each other and said yieldable portions having substantially the configuration of cylinders whose axes are parallel to the axis of the band when the latter is in compressed state.

2,614,305
CLIP
Robert L. Yeardley, New Lexington, Ohio
Application June 3, 1949, Serial No. 96,953
1 Claim. (Cl. 24—81)

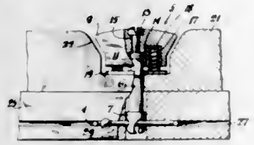
A clip comprising three juxtapositioned elongated sections including an intermediate section and a pair of outer sections, each of said sections

having an upper end and a lower end, the lower end of said intermediate section being integrally formed with the lower end of one of said outer sections, a transverse channel portion joining the upper end of the intermediate section to the upper end of the other outer section, said channel portion projecting from the intermediate section toward the said one of said outer sections, a



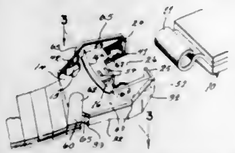
transversely extending concavo-convex portion at the upper end of the said one of said outer sections and receiving said channel portion therein adapted to coact with the channel portion in gripping an article positioned between the intermediate section and said one of said outer sections, said other outer section and said intermediate section adapted to coact in clampingly holding an article therebetween.

2,614,306
FASTENER STUD
William Dzus, West Islip, N. Y.
Application May 3, 1951, Serial No. 224,274
4 Claims. (Cl. 24—221)



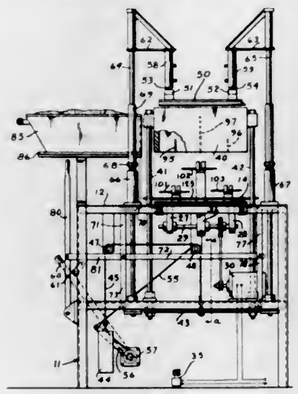
1. In a quick-acting fastening device of the spiral-cam type in which a spiral-cam stud member is engageable with a receptacle member upon the rotation of one member with respect to the other, a fastener stud assembly comprising: a shank portion formed with spiral-cam locking means at the lower end thereof; an enlarged head portion at the upper end of the shank portion, said enlarged head portion being formed with apertures in the lower surface thereof; a bearing plate slidably mounted on the shank portion beneath the head portion and shiftable towards and away from the head portion; and springs disposed in the apertures of the head portion and engageable with the upper surface of the bearing plate to normally shift the bearing plate away from the head portion.

2,614,307
END CONNECTOR FOR WATCH BRACELETS
Otto Robert Kostka, Providence, R. I., assignor to Marvel Jewelry Mfg. Company, Providence, R. I., a corporation of Rhode Island
Application March 29, 1949, Serial No. 84,039
9 Claims. (Cl. 24—241)



5. For use with a device having an attaching knuckle projecting therefrom an improved connector comprising a bottom plate having a recess therein, a top plate having a recess therein complementary to the recess in said bottom plate, means for securing said plates together in spaced apart relation, a latch member having a portion pivotally mounted on one of said plates and having a second portion disposed to move towards said plates at substantially right angles to the planes thereof and to swing across said recesses, and a spring between said plates and having a portion in the path of movement of said second portion of the latch member and adapted to be moved by said second portion of the latch member out of the path of movement thereof, thereby placing said spring under tension until said second portion of the latch member clears said spring portion and sits therebehind to retain said second portion of the latch member in latched position.

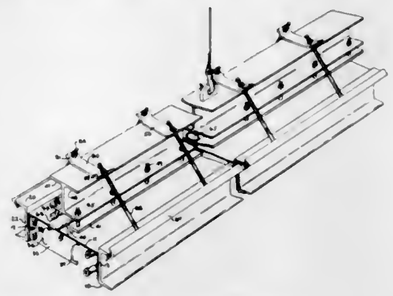
2,614,308
BLOCK MOLDING MACHINE
Victor Burkard, Barton, and Donald J. Shepherd, Buffalo, N. Y.; said Shepherd assignor to said Burkard
Application April 20, 1949, Serial No. 88,502
3 Claims. (Cl. 25—41)



1. In a concrete blockmaking apparatus, a mold having two laterally spaced panel-forming compartments and having opposed walls slotted for the receipt of tie members whose ends are to be embedded in panels cast in said compartments, tie-engaging means for locking tie members passing through said slotted walls in fixed relation to said mold, and means for thereafter loading and compacting charging of concrete in said mold chambers and about such portions of the tie members as are arranged therein, said tie-engaging means being operable at will to free the tie members and formed panels for removal as a unit from said mold.

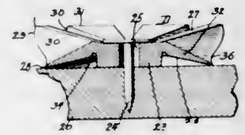
2,614,309
EXPANSIBLE MOLD FOR CASTING CONCRETE BEAMS
Gayle B. Price, Dayton, Ohio, assignor to The Flexicore Co., Inc., Dayton, Ohio, a corporation of New York
Application April 18, 1949, Serial No. 88,175
9 Claims. (Cl. 25—121)

1. An apparatus for making elongated precast concrete beams, said apparatus comprising a flexible form having a generally U-shaped section, rigid means extending from the sides of the form back toward the bottom of the form, said rigid means being disposed outside of said form, and expansible means disposed between said rigid means and the bottom of said form



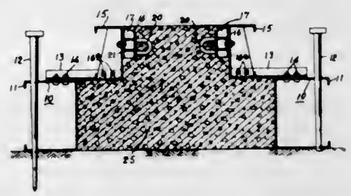
for exerting force to buckle the bottom and spread the sides whereby a finished beam may be released from the form.

2,614,310
UNDERCUT FORMER
Robert Maxwell James, Buffalo, N. Y.
Application August 21, 1948, Serial No. 45,504
14 Claims. (Cl. 25—128)



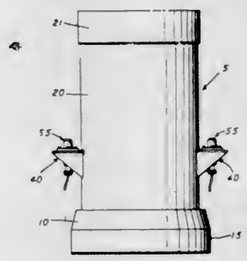
9. A key form for forming undercut recesses in plastic material, comprising, a flat key member having a first face and a second face of smaller size than said first face, the peripheral edge portions of said key member being arranged at a reentrant angle relative to the plane of said key member, the smallest face of said key member having a recess formed therein, a hub portion extending into said recess and having a hinge portion formed at the base of said hub portion, the peripheral edge portions of said key member being flexible relative to said hub portion to radially collapse the key member upon hinging around said hinge portion.

2,614,311
FORM FOR MOLDING CONCRETE FOOTINGS AND WALLS
Charles H. Shook, Dayton, Ohio
Application July 2, 1947, Serial No. 758,553
4 Claims. (Cl. 25—131)



1. A form for concrete walls comprising an inverted T-shaped footer providing a vertical wall portion and a horizontal ledge extending from each side thereof, anchor members embedded in said vertical wall portion of said footer at each side thereof, a channel shaped wall section placed at each side of said wall portion and resting on said ledge with the open side of the channel positioned outwardly of said wall portion, a vertically disposed support member positioned against each of said wall sections and having the bottom end resting on the respective ledge, detachable fastening means extending from the respective support members through the wall section thereagainst and into detachable connection with the respective anchor members, a plurality of channel shaped wall sections positioned upon said first mentioned wall sections with the open side of the channel toward the respective vertical support members, detachable fastening means between said vertical support members and said last-mentioned wall sections, and a tie member extending between the upper ends of said support members above the uppermost of said wall sections.

2,614,312
METHOD OF MOLDING TUBULAR CONCRETE ARTICLES
Donald H. Rankin, Long Beach, and Charles E. Little, North Hollywood, Calif., assignors to American Pipe and Construction Co., South Gate, Calif., a corporation of Delaware
Application June 10, 1946, Serial No. 675,702
1 Claim. (Cl. 25—155)

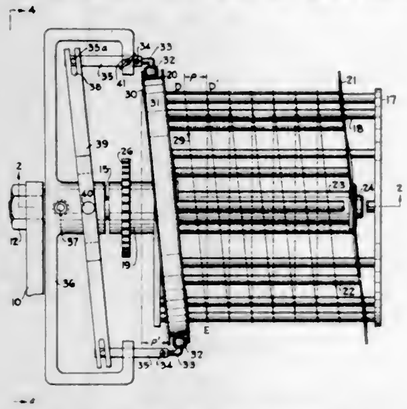


The method of forming tubular concrete articles in an annular mold which includes introducing a wet concrete mix into the mold and vibrating the mold by generating rotary vibrations in excess of 8000 cycles per minute simultaneously about spaced axes extending parallel to the longitudinal axis of the mold, the vibrations generated at one point being substantially different in frequency than the vibrations generated at another point, and communicating the generated vibrations to the mold through means rigidly connected to the mold.

2,614,313
ADJUSTABLE SELF-TRANSPORTING THREAD STORE REEL
Hendrik Reitsma, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application July 15, 1949, Serial No. 104,894
In the Netherlands July 21, 1948
20 Claims. (Cl. 28—71.7)

16. As a subcombination, a flexible cage for use in thread-store reels comprising a plurality of individually axially reciprocable staves arranged in the form of a drum and adapted to engage thread wound thereon; a flexible disc disposed transversely to the axis of the cage and secured to the staves at points spaced from said axis; an annular track portion on said flexible disc adapted to have running engagement with a guide for

deflecting said disc and staves axially; and a second support spaced from said disc and guidingly



engaging said staves for axial movement with said flexible disc.

2,614,314
BROW-BAR SUPPORT FOR GOGGLES
Frank W. Lindblom, Cranston, R. I., assignor to Welsh Manufacturing Company, a corporation of Rhode Island
Original application December 15, 1948, Serial No. 65,460, now Patent No. 2,507,474, dated May 9, 1950. Divided and this application April 1, 1950, Serial No. 153,400
2 Claims. (Cl. 29—20)



1. The method of forming a cushioned support on a goggle having two connected lens rims which comprises soldering a rod at its ends to said rims and then cutting the rod intermediate its end to provide two bars, springing one bar out of line with the other and sliding a tube thereon, then aligning said bars and sliding the tube over the end of the other bar.

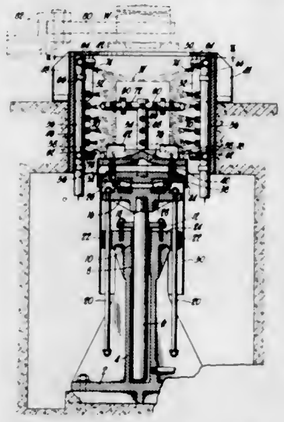
2,614,315
AUTOMATIC FEEDING DEVICE
Albert E. Davison, Dearborn, Mich.
Application September 20, 1948, Serial No. 50,145
11 Claims. (Cl. 29—59)



1. A stock feeding device for attachment to a rotating hollow stock feeding spindle and comprising an elongated tube adapted to telescope inside said spindle, a quick release lock mounted on said tube and adapted to hold said tube in said spindle, a stock tube telescoped within said elongated tube and a spring disposed between said stock tube and said elongated tube.

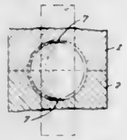
2,614,316
AUTOMATIC ROTATING DESCALER FOR WHEEL BLOCKS OR THE LIKE
Edward H. Daily, Michigan City, Ind., and William E. Schmidt, Chicago, Ill.
Application March 16, 1949, Serial No. 81,726
3 Claims. (Cl. 29—81)

1. An apparatus for descaling a workpiece comprising a vertical support member, a platform rotatably mounted on the upper end of said support member, a plurality of vanes projecting upwardly from said platform presenting a plurality of thin plates vertically positioned with their top edges in a common plane for supporting said workpiece, a housing surrounding and extending upwardly above said platform, a plurality of noz-



zles disposed around the inner periphery of said housing, said nozzles being directed toward said workpiece and said vanes, and means for supplying fluid through said nozzles at high velocities to direct said fluid against said vanes and said workpiece simultaneously to thereby rotate said platform and descale said workpiece.

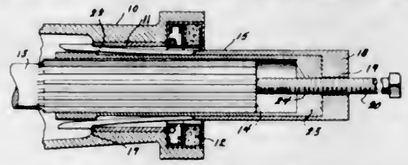
2,614,317
METHOD OF MAKING METAL BALLS
Emil Deüssen, Ludwigsburg, Germany
Application January 7, 1950, Serial No. 137,418
In Germany August 19, 1949
2 Claims. (Cl. 29—148.4)



1. The method of making metal balls which consists in placing between semispherical dies a mass of metal of slightly less volume than the volume of the cavity of the closed dies, closing the dies on the mass of metal to form it into a generally spheroidal form having a mass slightly less than the volume of the cavity of the closed dies, and thereafter removing from the surface of the shaped mass sufficient metal for the remaining mass to be truly spherical.

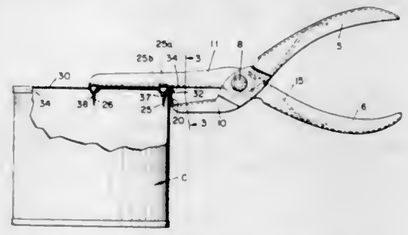
2,614,318
TOOL FOR EXTRACTING BUSHINGS
Jesse Lee McCord, Covington, Ga.
Application July 24, 1950, Serial No. 175,595
3 Claims. (Cl. 29—263)

1. A tool for removing bushings from automobile transmission housings and the like, comprising a thin, cylindrical extractor sleeve having a plurality of elongated spring fingers at one end; external shoulders formed on the free end portions of said fingers adapted to be expanded to engage the end of a bushing to be removed, a cylindrical expander telescoped in said extractor sleeve having a tapered head to engage said spring fingers and adapted to be telescoped on a shaft spaced from and projecting through the bushing and then pulled into expanding engagement with the fingers; a closed end member on the expander sleeve having an axial screw threaded opening therein; stop means carried by the extractor sleeve positioned to limit



the expanding movement of said expander sleeve; and a power screw extending freely through the outer end of said extractor sleeve and said screw threaded opening adapted to engage the end of the shaft projecting through the bushing to apply extracting pressure through the expander sleeve and said stop means to the extractor sleeve thereby remove the bushing.

2,614,319
CAN PIERCING DEVICE
William E. Shands, San Diego, Calif.
Application March 28, 1952, Serial No. 279,069
6 Claims. (Cl. 30—6.1)



1. In a device for piercing holes in the top of a can and forming a contiguous side portion of said can into a spout shape about one of said holes, a pair of jaws pivotally assembled for relative swinging movement, the upper one of said jaws having a pair of depending, longitudinally spaced, conical, hole piercing pins arranged so that when the upper jaw moves towards the lower jaw each of said pins pierces a hole in the top of said can, the other of said jaws presenting a pair of transversely spaced, relatively sharp projections engageable beneath the top peripheral flange of said can, said projections being so positioned relative to the rear one of said pins that as said pin pierces said can it will deform the contiguous side wall portion of the can outwardly between said projections, whereby to form a spout about the hole pierced by said pin.

2,614,320
MATERIAL CUTTING DEVICE
Homer R. Rosenberry, Scudder, Ontario, Canada
Application May 9, 1949, Serial No. 92,163
4 Claims. (Cl. 30—15.5)

1. Material-cutting device comprising, a driving and cutting wheel combination, said wheel having a center of rotation, a bottom wall of large diameter and a top wall of smaller diameter with a sloping edge wall therebetween, a continuous series of cutting members cut into said edge wall, each said cutting member having a substantially straight edge extending in a radial direction from said center, and a cleavage edge having a center of generation located away from the said center of the wheel, said straight edge and cleavage edge meeting at a piercing end point defining an included angle less than 90°, said cleavage edge of one cutting member meeting the radially extending edge of an adjacent member and defining an included angle there-



with not greater than 45°, means to rotatably drive said wheel, pressure-bearing jaw means, and means to force said pressure-bearing means toward said wheel, said pressure-bearing jaw means and said wheel acting as a clamp to hold a substance to be cut therebetween in a longitudinally slidable grip, but held against later movement away from said cutting wheel.

2,614,321
SAFETY RAZOR
Charles Ackerman, Hackensack, N. J.
Application December 23, 1950, Serial No. 202,513
1 Claim. (Cl. 30—34)

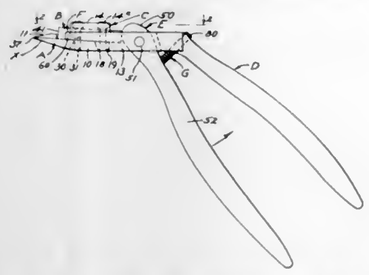


A safety razor consisting in combination, of a plane surfaced blade formed with a plurality of apertures within its margins the blade at the edges of the apertures being sharpened, and a holder having a marginal seat adapted to receive and support the blade at the margins thereof, the holder including releasable means overlying the seat of the holder for engaging the blade and coacting with said seat in holding the blade against said seat, in which at least the marginal seat area of the holder is formed of molded non-hard rubber, the holder having a handle area and a dished top formation, bounded by a flat seat for the blade, the releasable means being a flexible lip above said seat which lip is adapted to overlie the blade when the latter rests upon the seat.

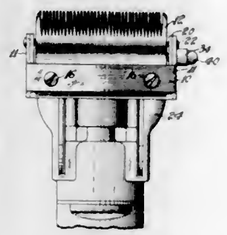
2,614,322
SPRING CUTTER
Walter A. Pendleton, Glendale, Calif.
Application January 9, 1946, Serial No. 640,061
2 Claims. (Cl. 30—179)

1. A tool for cutting a coil spring including, a body having a guideway, an anvil member having

a substantially flat elongate shank secured to the body to project forward therefrom and having flat upper and lower faces, a rearwardly facing abutment normal to the upper face of the shank on the forward end portion of the shank and having a convex work face, the forward end of the anvil member being convergent from the abutment and the lower face thereof and converging to an edge for entering between adjacent convolutions of the spring and forming a flat wedge insertable between such convolutions of the spring to part them for passage of the shank into the spring beyond the abutment to engage the said work face behind a part of the spring, a forwardly facing cutter carried in the guideway for movement straight toward the abutment, a handle projecting from the body, and means operable to move the cutter toward the abutment.



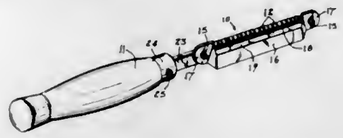
2,614,323
HAIR CLIPPER ATTACHMENT
Charles Mueller, Oak Ridge, N. J.
Application December 9, 1949, Serial No. 132,140
2 Claims. (Cl. 30—201)



1. Attachment for replacing the comb blade and reciprocating cutter blade of a hair clipper comprising a flanged plate serving as a supporting member, means to fasten said supporting plate to the clipping head in place of said removed blades, another flanged plate serving as a carrier member, said carrier plate having fastened thereto a comb blade and a reciprocating cutter blade, both the supporting plate and carrier plate being provided with two side flanges, means to pivotally mount the carrier plate to the supporting plate, the flanges of the carrier plate thereby overlying the flanges of the supporting plate, and means to lock and unlock, respectively, the carrier plate in various positions with respect to the clipping head.

2,614,324
CARROT CUTTER
Luis Greenidge, New York, N. Y.
Application April 12, 1949, Serial No. 86,907
1 Claim. (Cl. 30—279)

In a knife, an elongated bar having a gripping handle at one end thereof, a set of spaced grooving blades integral with said bar and projected at right angles from one side and an adjacent longitudinal edge of said bar intermediate the ends thereof, a metal strip having an intermediate portion extended parallel to and spaced from the said one side of said bar from which said grooving blades extend, said intermediate portion of said strip being of a length corresponding to the length of the set of grooving blades and having at the ends thereof offset end portions secured flatwise to the said one side of said bar beyond the ends of the set



of grooving blades, and a knife edge formed along the edge of the intermediate portion of said metal strip located adjacent said grooving blades, said metal strip having its intermediate portion spaced in its width from its knife edge to its other edge progressively further away from said bar, said bar at its edge opposed to its edge from which said grooving blades extend having its side facing said metal strip bevelled away from said metal strip, so constructed and arranged that said bar and said metal strip form a discharge passageway which increases in width away from said grooving blades.

2,614,325
COTTON HOLDER FOR DENTAL USE
Rolf P. Hartig, Minneapolis, Minn.
Application April 2, 1951, Serial No. 218,759
2 Claims. (Cl. 32—35)

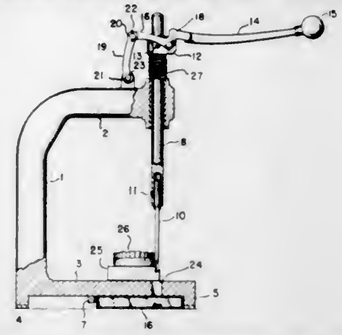


1. In a device of the class described, a body formed from flexible resilient stock to provide a pair of diverging arms which are formed at their converging ends to provide an arcuate loop, the free ends of said diverging arms being backturned upon themselves to provide pointed cotton roll-receiving needles, said needles being closely spaced from said arms throughout their length and having their pointed ends in substantially tangential engagement with opposite sides of said looped portion.

2,614,326
MOLD TRIMMER
Oscar H. Loock, Houston, Tex.
Application October 13, 1949, Serial No. 121,160
2 Claims. (Cl. 32—38)

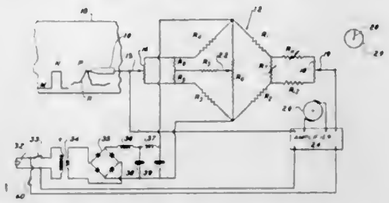
1. In a dental mold trimmer, a framework, a base member on said framework forming a working platform, an upstanding member integral with said platform having an outwardly extended supporting arm, a bearing member formed in the end of said supporting arm, a piston freely operable in said bearing member, means adjacent said bearing member yieldably urging said piston constantly into raised position, a cutting tool attached to the lower end of said piston and a manually operable outwardly extending

lever, a block on said piston providing means for anchoring said lever to said piston, said lever being pivotally anchored adjacent one end to the



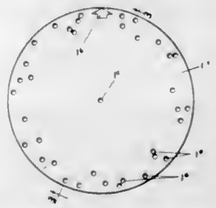
said block and a link pivotally connected at one end to said supporting arm and at the other end to the extended end of said lever.

2,614,327
OSCILLOGRAM READER
John D. Russell, Los Angeles, Calif.
Application May 14, 1949, Serial No. 93,250
16 Claims. (Cl. 33—1)



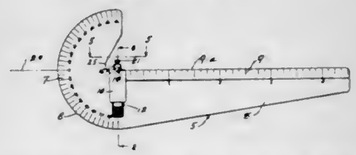
1. An oscillogram reader comprising a bridge, an input potentiometer connected between adjoining legs of the bridge, a pointer connected to the tap of the input potentiometer for following a trace on the oscillogram, an output potentiometer connected between the other two arms of the bridge, a pair of resistances connected in series across the input potentiometer, a third adjustable tap potentiometer connected across the bridge, means connecting the tap of the third potentiometer to the junction between said pair of resistances, and means for measuring the potential between the taps of the input and output potentiometers.

2,614,328
PIE AND CAKE DIVISION INDICATOR
Samuel A. Urshan, San Diego, Calif.
Application April 17, 1950, Serial No. 156,434
4 Claims. (Cl. 33—75)



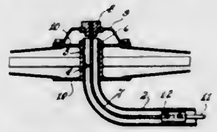
1. In a division indicator, a pair of superimposed plates concentric with each other and rotatable relative to each other, one of said plates having a pattern of individual openings therein, said openings disposed and arranged to indicate the equal division of the perimeter of said plates in any one of several fractional proportions of three hundred sixty degrees, providing indexing portions, the other of said plates having indexing portions adapted to coincide with the openings in said first-mentioned plate, said first-mentioned plate having an index pointer, said second-mentioned plate having numerical division indication designations thereon, adapted to be indexed with said pointer, a central bearing for said plates for holding them in concentric rotatable relationship to each other.

2,614,329
PROTRACTOR
Gustav A. Almorth, Higganum, Conn.
Application May 22, 1951, Serial No. 227,707
5 Claims. (Cl. 33—75)



1. A protractor comprising a flat plate having a semi-circular portion, a supporting block on the upper surface of said plate, a center-pin for said protractor, means mounted in said block for adjustably and retractably supporting said center-pin; the said means comprising a bore in said block on an axis parallel to the plane of the said plate, a shaft slidable in said bore and projecting beyond the front end of the block, a transverse opening through the projecting portion of the shaft for slidably receiving the center-pin, a clamping screw threaded to the end of said shaft and extending into said transverse opening for adjustably clamping the center-pin to the shaft and spring means urging the said shaft rearwardly and thereby adjustably retaining the said center-pin against the front end of the block.

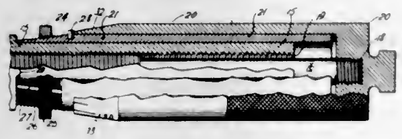
2,614,330
MEASURING INSTRUMENT
Carl I. Cederholm, South Worthington, Mass.
Application June 30, 1950, Serial No. 171,377
7 Claims. (Cl. 33—141)



7. A ground measuring instrument comprising a wheel of determined circumference, an open ended tubular handle, said handle having one end portion bent through an arc of ninety degrees to form a wheel supporting portion, said wheel being rotatably mounted on said portion adjacent the free end thereof, a lock ring washer fixed on the outermost end of said portion, a cap fixed on said wheel, a split cone nut fixed centrally in said cap to rotate therewith and extending over the adjacent open end of the tubular handle, a flexible cable positioned within the tubular handle and having one end secured to said nut, a counter having a driving rod mounted at the other end of said handle, a shaft connected to said driving rod

and a coupling connecting the other end of said flexible cable to said shaft for driving the counter on rotation of the wheel.

2,614,331
MICROMETER
Chester F. Sherwin, Watervliet, N. Y.
Application July 24, 1951, Serial No. 238,314
7 Claims. (Cl. 33—164)



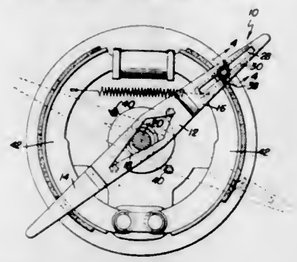
2. In a micrometer caliper, the combination comprising an open-ended frame having an anvil portion and a spindle portion; a spindle carrying sleeve projecting from said spindle portion and having a spindle movably mounted therein; a slidable sleeve, having a vernier scale thereon, mounted on said spindle carrying sleeve, said slidable sleeve having means thereon to lock the same in any predetermined position along said spindle carrying sleeve.

2,614,332
CRUTCH GAUGE
Lucian J. Zadrozny, New Britain, Conn.
Application April 25, 1951, Serial No. 222,809
4 Claims. (Cl. 33—174)



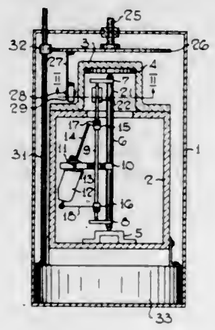
1. A crutch gage comprising an elongated frame, a slide bar longitudinally slidable on said frame, a handle bracket longitudinally adjustable on the slide bar, a crosspiece carried on the upper end of the slide bar, and a goniometer for determining the correct theoretical position of said handle bracket; the said goniometer including a lower angle bar pivotally secured to and extending from the handle bracket, an upper angle bar pivotally secured at a point on the crosspiece and extending therefrom and angularly crosswise to the lower angle bar, and a dial secured to one of said angle bars and having indicia thereon for indicating the relative angle between said angle bars at which the goniometer is adjusted for determining the position of the handle.

2,614,333
BRAKE SHOE GAUGE
Rudolph A. Peters, San Antonio, Tex.
Application April 24, 1950, Serial No. 157,709
1 Claim. (Cl. 33—180)



A brake shoe gauge consisting of an elongated rigid member for engaging diametrically across a pair of companion brake shoes; said member having a central portion which is provided with a substantially diamond-shaped aperture for centering the member about the wheel spindle of a car axle; said central portion being offset axially outwardly with respect to the oppositely extending integral end portions of said member; a coil spring adapted to fit over the outer end of the axle spindle and engage said outwardly offset central portion and urge the ends of the member against the brake shoes; said spring also yieldingly engaging said offset portion to restrict radial movement of the member relative to the spindle; and guide means comprising a slot in one of said end portions of said member and disposed longitudinally of said member, said one of said end portions having a recess adjacent and along the edges defining the slot, a gauge pin having an integral flange thereon slidably seated in said recess, and locking means on said gauge pin engageable with the member to retain the pin adjusted longitudinally in said slot.

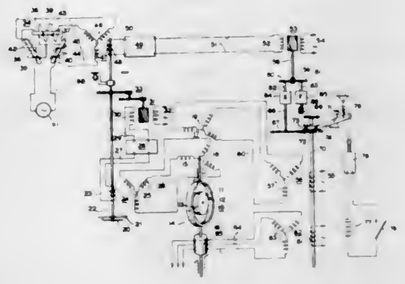
2,614,334
INCLINOMETER FOR BOREHOLES
Alexander B. Hildebrandt, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 9, 1951, Serial No. 235,697
12 Claims. (Cl. 33—205)



1. An inclinometer assembly comprising in combination a housing, a central vertical shaft mounted in said housing, a second vertical shaft mounted eccentric of and parallel to said first shaft and adapted for free movement about the axis of said first shaft, at least one of said shafts being rotatable on its own axis, a pendulum support bracket having a fulcrum point eccentric of

the center of said first shaft, said bracket being mounted in said housing for free movement of said fulcrum point in a circle about the axis of said first shaft, a pendulum pivotally mounted on the fulcrum point of said pendulum support bracket, means connecting said pendulum with a selected one of said shafts so as to cause rotation of said shaft with respect to the other of said shafts upon pivotal movement of said pendulum on said fulcrum point, a mirror mounted vertically on said central shaft, a second mirror mounted vertically on said second shaft, a source of light adapted to revolve about said mirrors, a photosensitive cell adapted to revolve about said mirrors in fixed relation to said light source and so positioned as to receive reflected light from each of said mirrors during some portion of a revolution about said mirrors, and means for revolving said light source and said photosensitive cell about said mirrors at a uniform rate.

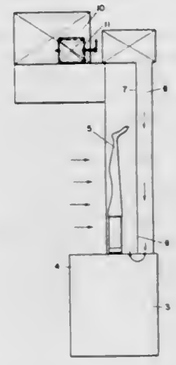
2,614,335
NAVIGATION SYSTEM
Paul A. Noxon, Tenafly, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application November 22, 1948, Serial No. 61,343
7 Claims. (Cl. 33—222)



2. A direction indicating system for mobile craft comprising a directional gyroscope subject to errors due to precession about a normally vertical axis, an indicating device, a torque amplifier connected for operating said device, an inductive signal generator operable by said gyroscope for energizing said torque amplifier, and compass means connected to said generator and adapted to provide an electrical signal corresponding to wandering of the gyroscope to energize said torque amplifier independently of said gyroscope for correcting said device for errors due to gyroscope precession.

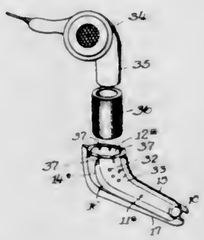
2,614,336
VENTILATION SYSTEM FOR BOARDING MACHINES
Lawrence Macrow, Glenside, Pa., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application September 24, 1949, Serial No. 117,649
5 Claims. (Cl. 34—21)

3. In a method of boarding hosiery, the steps which consist in placing hosiery on forms within an enclosure open on one side to the atmosphere, supplying heated air to the enclosure, supplying conditioned air to a zone immediately in front of the enclosure and exhausting air from the enclosure, the exhausted air comprising about three-fourths of heated air supplied to the enclosure and



about one-fourth of conditioned air supplied in front of the enclosure.

2,614,337
DRIER DEVICE FOR BOOTS AND THE LIKE
Rolf E. Darbo, Madison, Wis.
Application October 18, 1950, Serial No. 190,708
6 Claims. (Cl. 34—104)

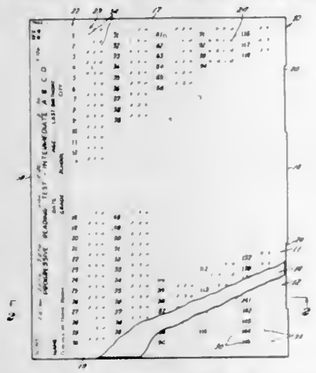


1. A drier device for boots and the like comprising a foot-shape form having a passageway therethrough, said form having projections extending therealong for spacing the form from the interior of the boot, at least one of said projections extending beyond the form at the toe thereof, whereby air passageways are provided for the return path of air injected into said form.

2,614,338
SELF-SCORING TEST DEVICE
Ethel M. Clark, Los Angeles, Calif., assignor to California Test Bureau, a corporation of California
Application June 25, 1949, Serial No. 101,470
1 Claim. (Cl. 35—48)

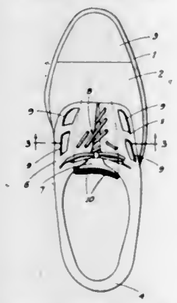
A multiple choice answer recording and scoring device comprising: a rectangular sheet having a transverse perforated score line extending centrally thereacross to define a pair of congruent leaves and being folded upon itself along said score line, a sheet of transfer paper between said leaves, said sheet of transfer paper being smaller than said leaves whereby the marginal portions of said leaves are in direct contact along each side, the said marginal portions being tipped continuously around each side edge of said leaves from one end of said scored line to the other with readily separable adhesive means to hold

said portions together, a plurality of marking stations on the outer face of one of said leaves and a plurality of corresponding answer stations on the inner face of the other leaf, said transfer paper being adapted to transfer marks applied on said marking stations to corresponding answer stations, certain portions of said perforations being interrupted by rectangular notches of substantial length and width adapted to index the device in an automatic electric scoring machine and to also provide access from the exterior to the interior portions of said device by insertion of an element into one of said notches to separate an adjacent tipped side whereby said remaining tipped marginal sides may be separated and said device unfolded along the remain-



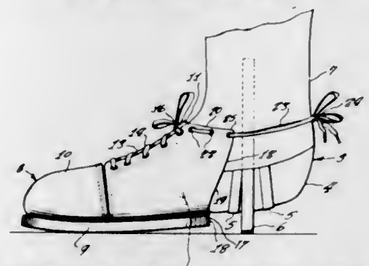
ing score line, said leaves defining duplicate tests respectively on corresponding fold sides thereof and duplicate summary analysis on the other respective sides thereof for summarizing the test data on said first sides, said front and back corresponding sides being juxtaposable when separated solely along said tipped sides for transferring test information from the marking stations and answer stations to the back side of the respective other leaves, said leaves being reversibly foldable by means of said score line when said tipped sides are separated for duplicating the test summaries by means of said transfer sheet, said transfer sheet upon separation of said tipped sides being freely and integrally removable.

2,614,339
VENTILATED SHOE
Matt D. Herceg, Stockton, Calif.
Application April 25, 1951, Serial No. 222,867
3 Claims. (Cl. 36—3)



1. In a shoe including a side portion, the latter having a vent opening therethrough, and a flap secured on the shoe for folding between an open and a closed position relative to the vent opening; the shoe including a tongue, and the flap being inside the shoe and comprising a lateral extension of the tongue, said extension folding under the tongue when in open position.

2,614,340
WALKING CAST SHOE
Robert F. Larkin, Wauwatosa, Wis.
Application February 2, 1952, Serial No. 269,640
5 Claims. (Cl. 36—8.5)



1. A walking cast shoe, including a front sole terminating abruptly beneath the instep of the foot to be protected, a toe cap upon the forward portion of the front sole, and a pair of upper portions upon the sole having a lace for drawing the upper portions together upon the forward portion of the foot.

2,614,341
DISPOSABLE SANDAL OF PAPER OR THE LIKE
Maurice H. Abbott, Chicago, Ill.
Application October 31, 1950, Serial No. 193,211
2 Claims. (Cl. 36—11.5)

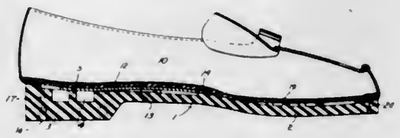


1. In a one-use sandal of the type which utilizes a sole of paper-board to the top face of which is secured the side and front margins of a flat crepe paper cap having its rugae extending lengthwise of the sole, the feature of improvement which comprises the provision of scored lines extending transversely of the cap at varying distances longitudinally thereof and in intersection with the rugae crossed thereby at an angle of substantially 90°, each scored line acting to lessen the resilient properties of the crepe paper to oppose return of the cap to its original flat state following an initial arching thereof occasioned by insertion of the toes and instep of a foot beneath the cap.

2,614,342
SHOE WITH SOLE HAVING RAISED PORTIONS ON ITS UPPER FACE
John Hoza, Belcamp, Md.
Application July 21, 1950, Serial No. 175,187
1 Claim. (Cl. 36—19)

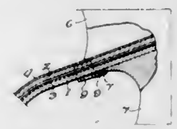
A shoe formed with a rubber one-piece heel and sole, the upper surface of which is formed

with a slight depression and a series of corrugations, the corrugations extending entirely around the outer edges of the one-piece heel and sole and the slight depression, the upper surface of the depressed upper surface of the outer sole portion having raised formations thereon and the heel portion having a depression provided with a transverse bar-like formation, the upper surface of which is on a level with the wall of the slight depression of the sole portion, a leather upper having its lower edges bent inwardly, the inwardly bent portion of the leather upper being supported on the corrugations on the edge portion of the molded heel and outer sole, the inner end portions of the leather upper being extended beyond the corrugations and in contact with the



wall of the depression, an inner sole, the outer edge portion of said inner sole being supported on the bent-in portion of the leather upper and over the corrugations on the outer sole and extending over the depression in the heel and sole portions of the outer sole, stitches extending through the outer sole inwardly of the corrugations and through the inwardly bent end of the leather upper and the inner sole to unite the parts together, and a metal strip extended over and supported at its rear end on the transverse bar formation in the depression in the heel portion and having its opposite end extended forwardly over and supported on the rear part of the raised formations on the surface of the sole portion to provide a shank stiffener.

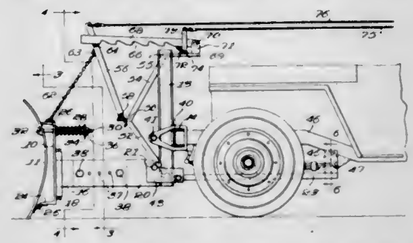
2,614,343
HEEL AND SHANK LOCK FOR SHOES
Francis Low Brandt, Glen Rock, N. J., assignor of one-half to Wilfred C. Hand, Mountainside, N. J.
Application April 17, 1950, Serial No. 156,458
2 Claims. (Cl. 36—76)



1. In a lady's shoe, the combination comprising a multi-layer shank portion having a spring steel shank stiffener positioned between an adjacent pair of said layers, a heel and a U-shaped staple member having a rearwardly extending wing portion for engagement with the breast of said heel, and legs which pierce said shank portion to embrace the shank stiffener.

2,614,344
ADJUSTABLE SCRAPER BLADE MOUNTING
Harley Rust, Mount Morrison, Colo.
Application April 1, 1949, Serial No. 84,826
3 Claims. (Cl. 37—42)

1. In a scraper blade mounting, the combination which comprises a pair of spaced vertically positioned posts, means clamping the posts to a cross member of a vehicle, a transversely disposed channel having a vertically disposed web with forwardly extended flanges on the upper and lower edges thereof positioned ahead of the posts, extensible arms pivotally mounted on the posts and attached to the channel, a scraper blade hinged to the flange on the lower edge of the channel,



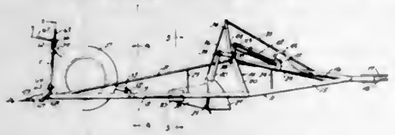
means resiliently holding the upper edge of the scraper blade against the flange on the upper edge of the channel, struts extended rearwardly from the lower ends of the posts to stationary elements on the chassis of the vehicle, a gin pole pivotally mounted on the posts, chains connecting the gin pole to the channel, and latch means retaining the gin pole in adjusted positions with the channel and scraper elevated.

2,614,345
SCRAPER ATTACHMENT FOR TRACTORS
Andy R. Lay, Council, Idaho
Application June 30, 1950, Serial No. 171,396
3 Claims. (Cl. 37—155)



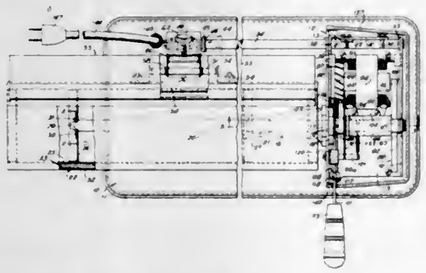
1. In combination with a tractor having a rear axle, a frame secured at one end to said rear axle, and front wheels supporting the other end of said frame, struts secured each at one end to said rear axle near respectively opposite ends of the latter and connected together at their other ends intermediate the length of said frame, a lever pivotally connected intermediate its length to said frame near said other end of the latter and extending toward said rear axle, a blade pivotally connected at one end to the end of said lever proximate to said rear axle and disposed transversely of said frame and inclined to the longitudinal center line of the latter, means pivotally connecting said blade at a location spaced from said one end of the blade to one of said struts at the end of the latter remote from said rear axle, a brace connected at one end to said rear axle intermediate the length of the latter and connected at its other end to said blade near the other end of the blade, said brace crossing the other of said struts, screw mechanism connected between said brace and said other strut for adjustably raising and lowering said other end of the blade, and manually controlled power operated means connected between said frame and said lever for bodily raising and lowering said blade.

2,614,346
LAND LEVELER
James V. Howard, Nampa, Idaho
Application July 9, 1948, Serial No. 37,868
3 Claims. (Cl. 37—169)



1. A land levelling machine of the character described comprising a frame, a transverse depending scraper blade having rearwardly extending side arm portions, means pivotally connecting said side arm portions to the sides of the frame at the intermediate portion of said frame, spring means connecting the scraper blade to the frame and biasing the blade upwardly, fluid pressure means on the frame comprising a cylinder pivoted to the forward portion of the frame having a rearwardly extending plunger, linkage means connecting said plunger to the scraper blade, said linkage means being formed and arranged to depress the scraper blade responsive to extension of the plunger, a transverse float blade secured to the rear end of the frame, a pair of longitudinal arms pivoted at their forward ends to the frame forwardly of the float blade on a common transverse axis, a transverse bearing sleeve connecting the intermediate portions of said arms, an axle journaled in said sleeve, ground-engaging wheels carried at the ends of said axle, sleeve members pivotally secured to the rear ends of the respective arms, threaded rods passing slidably through the respective sleeve members and pivotally secured at their lower ends to the float blade, and nut members threaded on said rods above the sleeve members and engageable therewith, whereby the wheels may be raised or lowered with respect to the float blade.

2,614,347
PORTABLE DOMESTIC IRONING MACHINE
Frederick M. Freis, Chicago, Ill., assignor to Conlon-Moore Corporation, Cicero, Ill., a corporation of Delaware
Application December 5, 1947, Serial No. 789,949
11 Claims. (Cl. 38—60)



1. In an ironing machine, a rotatably mounted roll shaft and a roll secured on said shaft, a cooperating shoe movable to and from said roll, a yoke mounted on said roll shaft for swinging movement thereabout and depending therefrom, a gear secured on said roll shaft, a gear and a pinion carried by said yoke constantly in mesh with each other with the yoke gear constantly in mesh with said roll shaft gear, a terminal gear carried by said yoke having driving connection with said pinion, a motor having a pinion secured to its shaft disposed substantially in the plane of said terminal gear whereby the latter may be moved into and out of driving engagement with said motor shaft pinion by swinging said yoke toward and away from said motor shaft, and means operable independently of said motor for moving said shoe to and from said roll and swinging said yoke toward and away from said motor shaft effective for establishing and disestablishing driving connection between said terminal gear and said motor shaft pinion.

2,614,348
ADJUSTABLE LEG CONSTRUCTION FOR IRONING BOARDS
Charles Buser, Auburn, N. Y., assignor to Beh and Company, New York, N. Y., a corporation of New York
Application January 29, 1948, Serial No. 5,104
8 Claims. (Cl. 38—121)

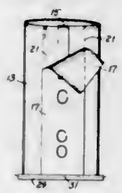


1. An adjustable leg construction for an ironing board, table, bench or the like, comprising a top board, a long leg pivotally connected to the top board and adapted to extend longitudinally thereof, a cross leg connected to the top board for longitudinal adjustment and pivotally connected to said long leg, said cross leg comprising a top section and bottom leg portions laterally adjustable from the top section below the pivotal connection of the cross leg with said long leg, means extending between said long leg and the adjustable sections to automatically cause their outward or inward movement as the legs are either extended or collapsed upon the top board, crossed links extending between the bottom leg of the cross leg to a point on the long leg offset from the pivotal connection between the legs, additional links extending between a lower point on the long leg and the bottom legs of the cross leg for retaining the legs in their extended positions, said long leg having a series of holes at its lower end, said means for retaining the legs separated from one another including a slide adjustable along the lower end of said long leg, rods extending between the slide and the outwardly adjustable leg sections of the cross leg, and a stop pin adapted to be inserted in the adjusting holes of said long leg to retain the silde in any one of a plurality of positions provided by the several holes.

2,614,349
DETACHABLE-LABEL BAG
James Gilman Barnes, Rockville Centre, N. Y., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application June 17, 1948, Serial No. 33,617
2 Claims. (Cl. 40—2)

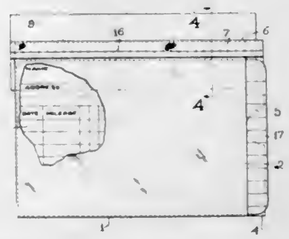
1. A paper bag comprising a length of paper tubing having a bottom closure and having a printed paper label strip narrower than the width of the bag extending from the bottom to the top

of the bag on the outside of the bag and secured to the bag at the bottom closure and by narrow stripes of adhesive at the longitudinal margins of the label strip with the portion of the label strip between the stripes of adhesive free of the bag and accessible for grasping at the top of the open bag, the paper label strip lying flat against the



bag throughout its entire area and the seams where the longitudinal margins of the label strip are secured to the bag by the narrow stripes of adhesive being flat seams, whereby the label strip may be grasped at the top of the open bag and peeled away from the bag leaving an unlabeled and otherwise undamaged bag.

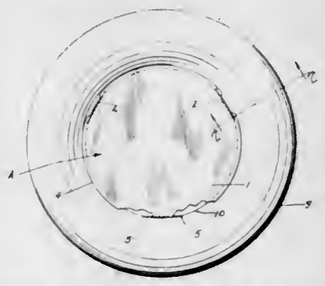
2,614,350
CARD HOLDER
Laurence S. Kneifel, Cleveland, and Herbert V. Sharlitt, Shaker Heights, Ohio, assignors to Transparent Specialties Corp., Cleveland, Ohio, a corporation of Ohio
Application February 17, 1948, Serial No. 8,845
1 Claim. (Cl. 40—10)



In combination, a transparent envelope closed at all of its edges with the exception of one of its side edges, a binding tape secured to the upper edge of said envelope, a strip of flexible material having a pressure-sensitive adhesive on its rear surface, a strip of protective or masking material covering said adhesive, said protective strip being divided into upper, intermediate and lower sections by wave-like lines of scoring, the upper and lower sections being removable from the adhesive, and means securing said binding tape to said flexible strip along the center of said flexible strip, whereby said envelope is pivotally connected to said flexible strip and may be swung to a substantially horizontal position when said flexible strip is adhesively connected to a vertical supporting surface.

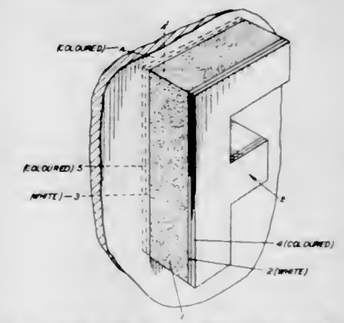
2,614,351
ADVERTISING DISPLAY DEVICE
James T. Mullen, Cleveland, Ohio, assignor to The Dyment Company, Cleveland, Ohio, a corporation
Application May 9, 1950, Serial No. 160,945
4 Claims. (Cl. 40—125)

1. A display device of the class described, comprising a display body portion of sheet material adapted for display of advertising material thereon, and a plurality of attaching members formed of resilient material, said attaching members comprising T-shaped tabs each having a neck portion movably connected to the body inwardly of and adjacent to the periphery of the body, said attaching members each having ears offstanding laterally from either side of the neck portion in the plane of the neck portion, the inner edges of said ears being disposed in a straight line, and said attaching members being movable to positions in which the entire plane of each attaching member is disposed at substantially right angles to the plane of said body with the inner edges of said ears extending parallel



to the plane of said body and spaced from said body adjacent the periphery thereof, said body having a maximum dimension greater than the maximum dimension of the arcuate periphery of an opening in a supporting structure adapted to support the display device, whereby the display body will overlap said opening when engaged with the supporting structure outwardly thereof, the wings engaging behind the portion of the supporting structure forming the arcuate periphery of said opening to retain the display device supported on said structure when the display body is so engaged therewith and the attaching members are positioned as aforesaid.

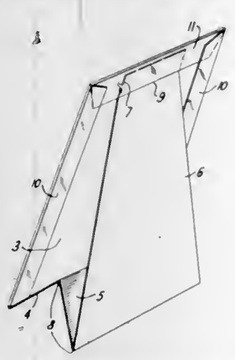
2,614,352
DISPLAY DEVICE
James Adrian MacHarg, Gosforth, Newcastle-on-Tyne, England
Application May 31, 1949, Serial No. 96,249
2 Claims. (Cl. 40—133)



1. In combination, a translucent mounting panel; a three-dimensional character block of translucent material mounted on and projecting beyond the face of said panel; translucent laminations disposed between the panel and block; translucent laminations on the outer face of the block; the sides of the block being roughened to give an illuminated return effect; the first mentioned translucent laminations being of one color and the second mentioned laminations being of a contrasting color; and a semi-trans-

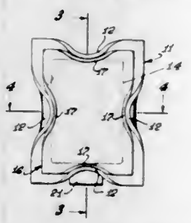
parent portion on the mounting panel corresponding in size and shape with said character block.

2,614,353
DISPLAY MOUNT
Sanford L. Goldman, Long Beach, N. Y.
Application February 28, 1949, Serial No. 78,731
1 Claim. (Cl. 40—152.1)



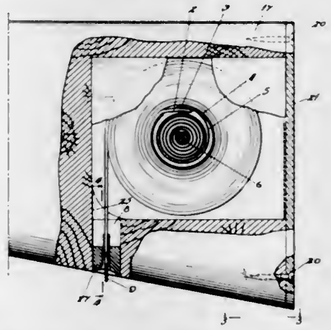
A display mount consisting of two elements, one element being a cardboard blank scored along three parallel lines in the center region thereof to provide a display panel section, an inverted V base section and a prop section terminating in a tab, the outer two of said scored lines being substantially equally distant from the center scored line, the length of said display panel section being substantially equal to the length of said prop section including said tab, said prop section tapering in width from the scored line defining the wide end thereof to the tab defining the narrow end thereof, said tab also having a scored line near the free end of said prop section to enable easy bending of said tab, the second element being a flexible sheet of transparent cover material having a top flap foldable over the top horizontal edge of the display panel and two side flaps to grip opposed vertical edges of the display panel, said tab being located at the rear face of the display panel top edge underneath the top flap of the cover material and adapted to be retained freely of said display panel section and underneath said top flap in such manner that said cover holds said display mount in assembled condition.

2,614,354
PICTURE FRAME
La Verne J. Winslow, Pasadena, Calif.
Application July 30, 1948, Serial No. 41,585
3 Claims. (Cl. 40—156)



1. In a picture frame, a semi-rigid plate-like back formed on its front face at spaced points around its marginal edge with integral forwardly and inwardly extending rounded portions substantially rigid in opposition to a displacing force normal to the plane of said back and of limited flexibility in opposition to a lateral displacing force, and a transparent semi-rigid plate-like picture-retaining member overlying the central portion of said back and formed around its marginal edge with integral forwardly and inwardly extending rounded portions spaced and positioned as to lie adjacent said rounded portions on said back, said rounded portions on said picture-retaining member being rigid in opposition to a displacing force normal to the plane of said member and of limited flexibility in opposition to a lateral displacing force, at least a pair of the rounded portions of said back engaging the rounded portions of said picture-retaining member to retain said member against said back, the outer surface of at least one of said rounded portions being contoured as to exert a lateral displacing force upon the adjacent rounded portion of said back upon said picture-retaining member being moved toward or from contact with the front face of said back.

2,614,355
RETRACTABLE SLING FOR GUNS
Arthur P. Rogers, Harris, and Donald McLaughlin, Monticello, N. Y., assignors to Romac Company, Inc., Harris, N. Y., a corporation of New York
Application March 4, 1949, Serial No. 79,596
2 Claims. (Cl. 42—85)



1. In a rifle with retractable sling having a hollow stock, a housing having an end and two sides contained within said hollow stock, a coiled flat spring having its inner end fixed relative to said housing, a spool mounted in said housing surrounding and fixed to the outer end of said spring, a sling strap coiled about said spool, said stock having a cylindrical bore extending from its hollow portion to the bottom edge of said stock, a plug fixed within said bore and having a flat slot extending transversely of said rifle stock, suitable for accommodating said strap, said plug having a concave recess at its end adjacent the bottom edge of said stock, the end of said slot forming a shoulder within said recess, said strap extending through said slot and having a ring at its end exterior to said stock, said ring being of a larger width than the width of said slot whereby said shoulder serves as a stop for said ring.

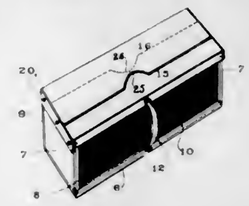
2,614,356
ARTIFICIAL FISH LURE
William D. Kayes, Jr., Chicago, Ill.
Application May 22, 1950, Serial No. 163,435
3 Claims. (Cl. 43—35)

1. An artificial fish lure comprising a body having the general form of a fish and designed to be suspended from a line, a guide carried by the body at a point intermediate its ends, the body having a recess made from the bottom, and a hook pivoted in the recess and normally retained therein, the line being applied to the lure by way



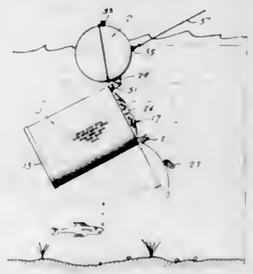
of said guide and descending alongside of the body and upwardly into the recess to terminate with a portion which is attached to the shank of the hook, a pull on the lure operating to tension the line and swing the hook out of the recess.

2,614,357
PORTABLE BAIT CONTAINER
Charles R. Stoddard, Jr., Richmond, Ind.
Application November 23, 1948, Serial No. 61,598
1 Claim. (Cl. 43—55)



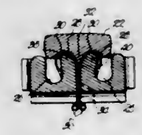
In a bait container, a closure located on one side of the container for permitting insertion of the hand into the container, said closure comprising a pair of elastic strips secured longitudinally across the box with adjacent edges in overlapping relation, said strips being provided in their adjacent edges with oppositely disposed cutaway portions approximately midway of their ends.

2,614,358
COMBINATION CHUM POT, BOTTOM SOUNDER, AND BAIT BUCKET
Frederick J. Adams, Philadelphia, Pa.
Application December 22, 1945, Serial No. 636,694
1 Claim. (Cl. 43—55)



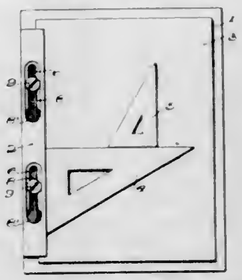
A fishing device comprising, in combination, a perforated cylindrical container having an open end, a perforated dish shaped cover for the open end of said container, said cover having a central fish receiving opening therein, securing members located at opposite sides of the open end of said container, said cover being detachably secured thereto, a weight member having a diameter substantially the same as that of the container mounted on one of said securing members and extending outwardly from said container, and a bail shaped float member secured to another securing member on the opposite side of the container from the weight member and extending outwardly of said container, whereby the float and weight members will maintain the container submerged with the longitudinal axis thereof inclined with respect to the surface of the water, said float being hingedly and separably connected to said securing means and being adapted to assume a position in which it is nested in the open end of said container.

2,614,359
FISHHOOK RACK
William G. Galbraith, William T. Williams, and Clyde T. Abraham, Kansas City, Mo.
Application July 24, 1950, Serial No. 175,563
2 Claims. (Cl. 43—57.5)



1. In a rack for a pair of rows of fishhooks of the kind having an elongated shank and an arcuate, barbed end, said rack including an elongated member having a longitudinally extending slot open at one end of the member, enclosed at the opposite end of the member and adapted to receive the shanks of said fishhooks, said member having an elongated channel in one face thereof on each side respectively of the said slot and coextensive in length therewith for receiving said ends of the fishhooks; a lid for the member having an elongated rib thereon adapted for wedging in the slot between the two rows of fishhooks; and means for holding the lid in an operating position on the member.

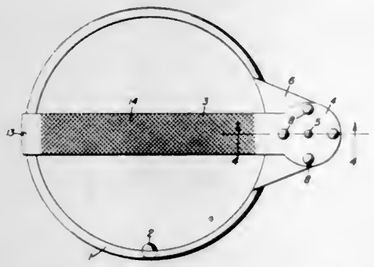
2,614,360
DRAFTING BOARD
Melville P. Hite, Jacksonville, Fla.
Application December 7, 1948, Serial No. 63,963
1 Claim. (Cl. 45—131)



A drafting board, including a base member, a straightedge element removably attached to said member, said straightedge element having slots therein, retaining means rigidly attached to said member and projecting therefrom at an acute angle thereto and extending through the slots, enlarged heads rigidly fixed on the ends of the retaining means which extend through the slots, said heads having inclined plane surfaces thereon,

and complementary inclined plane surfaces on said straightedge element positioned thereon for wedging engagement with the inclined plane surfaces on said heads to clamp said straightedge element to said base member by a sliding movement of said straightedge element relative to said base member, and said slots being widened at one end to permit passage of said heads therethrough, whereby said straightedge element may be removed from said base member.

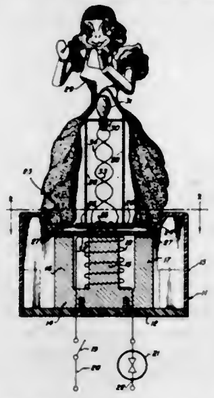
2,614,361
BALL AND RUNWAY TOY AND HANDLE THEREFOR
Michael P. Marong, Warsaw, N. Y.
Application November 17, 1950, Serial No. 196,273
2 Claims. (Cl. 46—43)



1. An annular internally grooved ball runway member for manipulation to cause a ball in the groove to roll around the same, a radial external ear on said member coplanar therewith, a handle bar having a disk on one end, an axial pivot extending through said disk and ear and swingably connecting said handle bar to said ear for relative swinging over and clear of said member into different positions to facilitate manipulation of said member, snap action means on said member and the other end of said bar for yieldingly retaining said bar in diametrical relation to said member comprising a slotted resilient hook on said other end of the bar adapted to straddle said member, and a lug on said member for engaging said slot, and coacting snap action detent devices on said ear and disk for yieldingly retaining said bar in different positions when swung out of diametrical relation to said member.

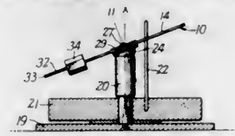
2,614,362
DANCING DOLL
José R. Zavala, San Pedro, Calif.
Application September 27, 1949, Serial No. 118,043
3 Claims. (Cl. 46—45)

1. A dancing doll comprising a hollow base, a magnetic core positioned within said base and secured therein, an energizing coil wound about said core and supported thereon, a translucent doll figure positioned above said base, mounting means resiliently supporting said doll figure on said base for movement toward and away from the latter, said mounting means comprising a pair of leaf springs arranged in spaced end to end confronting relation with respect to each other and having their non-confronting ends engaging said base, and a magnetic armature positioned in the space intermediate said leaf springs and supported on the confronting ends of the latter in an elevated position spaced above said base, an inductive pickup coil wound about said armature and supported thereon, and a circuit means electrically connected to said energizing coil, said circuit means comprising means to



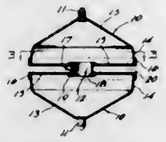
intermittently energize the latter to thereby effect the movement of said doll figure.

2,614,363
MOVABLE REFLECTING TOY
Hoel L. Bowditch, Jamaica Plain, Mass., assignor to Bola Toys Incorporated, Greenwich, Conn., a corporation of Connecticut
Application May 31, 1947, Serial No. 751,539
18 Claims. (Cl. 46—45)



1. In a toy for projecting a moving image upon a ceiling, in combination, a reflecting member for reflecting an incident light beam to form upon an irregular reflecting surface an image, a shaft supporting the member, a rocking support carrying said shaft and permitting rocking motion of the shaft at all angles from the vertical thereby to tilt the reflecting member in all directions and move the image over the ceiling, a force-applying member associated with said reflecting member and disposed to impart rocking motion to the shaft, said force-applying member being movable around said support to change the direction and angle of rocking motion, thereby to change the direction of motion of the image, and damping means associated with said shaft and exerting a retarding force acting against said shaft-rocking motion thereby to regulate the rate of tilting movement of the reflecting member and the speed of image movement.

2,614,364
SPINNING TOP
Wallace F. Darden, Springfield, Tenn.
Application November 7, 1946, Serial No. 708,288
1 Claim. (Cl. 46—64)



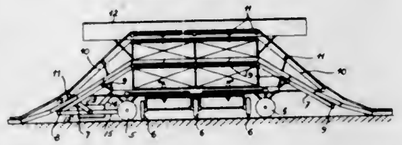
A double ended spinning top comprising a pair of coextensive circular disks each having a central opening extending therethrough, a perpendicular annular flange at the periphery of each disk, said flanges extending in opposite directions from one another, a tubular stem, opposite ends of said stem extending through the central openings in the disks and frictionally engaging the walls of said openings to hold the disks in spaced parallel relation, outwardly extending annular flanges at opposite ends of the tubular stem to lock the disks on said stem, conical caps adjacent the outer face of each disk, a spinning point at the apex of each cap aligning axially with the tubular stem and a substantially frustoconical flange at the base of each cap seated against the outer face of an adjacent disk and frictionally engaging the annular flange on said disk.

2,614,365
DOLL WITH MOVABLE ARMS
Yolanda Helen Musselwhite and Joseph A. Musselwhite, Washington, D. C.
Application July 25, 1949, Serial No. 106,674
4 Claims. (Cl. 46—119)



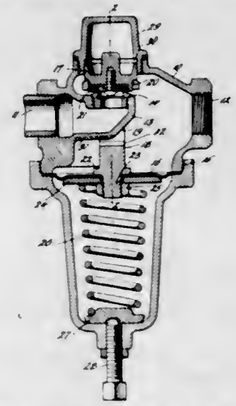
1. In a doll, a body having a fabric casing and a soft filling for the casing, arms having inner arm-portions forming continuations of the body and movably connecting the arms with the body and hollow outer arm-portions formed of stiff material, and an actuator for said arms embedded in the body and comprising a shell open at its rear and formed with side openings, a shank passing through the rear opening of said shell and having its rear end bearing against the inner surface of the fabric casing, and yieldable arms extending from the front end of said shank outwardly through the side openings of the shell and into the arms of the doll and frictionally gripping the hollow outer portions thereof, the said arms of the actuator adapted to be rocked transversely of the body across edges of the side openings and thereby imparting "patticake" movements to the arms of the doll towards and away from each other when reciprocating movements are imparted to the shank by pressure upon its rear end.

2,614,366
APPARATUS FOR CULTIVATING PLANTS UNDER SHELTER IN THE FIELDS
Roger Félix Fléklin, Nice, France
Application December 13, 1946, Serial No. 716,145
In France June 27, 1946
11 Claims. (Cl. 47—1)



1. A cultivating arrangement comprising in combination a plurality of troughs articulated with each other in succession to form a chain, the said troughs being adapted to be filled with earth and to rest on the ground; a plurality of covers for said troughs, said covers being also articulated with each other in succession to form another chain; a vehicle adapted to move along the said troughs; means on said vehicle to raise the successive troughs at the front of said vehicle as the same advances; means on said vehicle to raise the successive covers at the front of said vehicle as the same advances and at a higher level than said troughs; means on said vehicle to cause the raised troughs to travel horizontally through the said vehicle at a relative speed substantially equal to the speed of the vehicle with respect to the ground and in opposite direction; means on said vehicle to cause the raised covers to travel horizontally through the said vehicle at a relative speed substantially equal to the speed of the vehicle with respect to the ground and in opposite direction; means to lower the successive troughs onto the ground at the rear of the vehicle as the same advances; and means to lower the successive covers onto the successive troughs at the rear of the vehicle as the same advances.

2,614,367
PRESSURE REGULATOR
Lorin E. Grosboll, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application December 28, 1945, Serial No. 637,629
5 Claims. (Cl. 50—23)

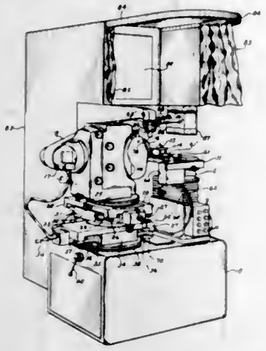


1. In a fluid pressure regulator, a casing open at one end and having an inlet and an outlet, a closure cap secured to the open end of the casing, an inner wall of the casing adjacent the open end thereof provided with a plurality of grooves, a diaphragm subject to fluid pressure, a yoke connected with the diaphragm, a plurality of lateral projections on the shoulders of the yoke, said projections interlocking with the grooves in the casing when the yoke moves into contact with the casing.

2,614,368
MACHINE TOOL
Louis F. Polk and Willis Fay Aller, Dayton, Ohio, assignors to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application May 6, 1948, Serial No. 25,446
10 Claims. (Cl. 51—165)

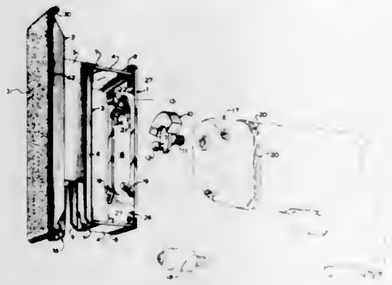
4. A grinding machine comprising a frame having a work table and a tool holder, adjustable means operably interconnecting said tool holder and frame for adjusting said tool holder towards the work holder, means for adjusting said

tool holder along the work, a grinding wheel on said tool holder, said work table having a substantially horizontal top and side thereof facing towards the grinding wheel, a vertical stationary viewing screen, a housing fixed to the frame at the rear of said holders and extending upwardly to a point above the level of said holders and supporting said screen directly above the tool holder and work holder and facing outwardly towards the operator's position when the operator is facing the work holder and tool holder, said housing having light reflecting means and



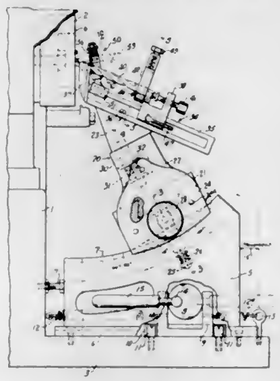
an objective lens for producing an enlarged surface projection of the face of the work on said screen, means for illuminating the upper surface of the work comprising a pair of light sources arranged on said frame to direct beams to said work surface which converge downwardly at substantially equal angles to a perpendicular from the work supporting surface of the work table in a plane which is transverse of the work table and substantially parallel to the side of the work table facing towards the grinding wheel and means providing an illuminated background on the projection.

2,614,369
SANDING OR RUBBING ATTACHMENT
Samuel Davis Robins, Lawrence, N. Y., assignor to Du-Fast, Inc., New York, N. Y., a corporation of New York
Application July 26, 1947, Serial No. 763,810
9 Claims. (Cl. 51—170)



1. A rubbing device for attachment to hand drilling machines having a drill body, said device comprising an attaching head having an opening to receive said drill body and adapted to be releasably clamped to the drill body; a rubbing head; an intermediate rigid frame element between said attaching head and said rubbing head; separate sets of flexible link members flexibly connecting said intermediate frame element to said rubbing head and to said attaching head, respectively, the link members of the respective sets being parallel to each other and the link members of one set being at substantially right angles to the link members of the other whereby translatory but not rotary motion of said rubbing head relative to said attaching head is permitted; and, a crank member to be connected to and rotated by the driving shaft of said drilling machine for imparting motion to said rubbing head said crank member being journalled to said rubbing head on an axis eccentric to the axis of said driving shaft when the drilling machine is in said opening.

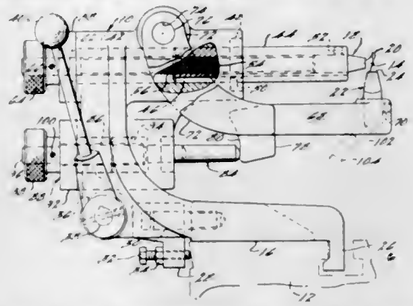
2,614,370
DRILL END SHARPENING MEANS
Edward C. Kapnick, Adrian, Mich.
Application January 28, 1949, Serial No. 73,240
10 Claims. (Cl. 51—219)



1. In a drill grinding machine having a grinding wheel, means for holding a drill with its cutting end in engagement with the wheel and mounted for rocking movements about an axis intersecting the drill axis at a point adjacent and spaced rearwardly of the cutting end of the drill, means carrying said first means and operable to shift it transverse to said rocking axis and to the drill axis, means carrying said second-mentioned means and guiding its transverse shifting movements, and means including a shaft on said first means and a connection between said shaft and third means operable to impart rocking movements to said first means when said second means is shifted.

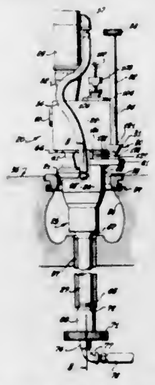
2,614,371
STEADY REST
Benedict Welte, Lake Orion, and Olney J. Abbott, Jr., Detroit, Mich., assignors to Colonial Broach Company, a corporation of Delaware
Application September 29, 1950, Serial No. 187,436
2 Claims. (Cl. 51—238)

1. A steady rest for a machine including a worktable and means adjustable for rotatably supporting elongated cylindrical elements of a wide range of sizes for rotation about a fixed axis, said steady rest comprising a body, means for securing said body to said table, a first member having a flat first surface disposed at one side of and parallel to said axis to tangentially engage elements mounted in said machine for rotation about said axis, means mounting said member on said body for adjustment along a line perpendicular to said first surface and intersecting said axis, a second member having a flat second surface adapted to engage said elements in angularly spaced relation relative to the engagement thereof by said first surface of said first member, means mounting said second member on said body for pivotal adjustment about a second axis parallel to said axis and disposed, when said member is in the position in which said second surface is at its closest approach to said first named axis, remotely from a plane including said first named axis and perpendicular to said second surface and at the opposite side of a plane



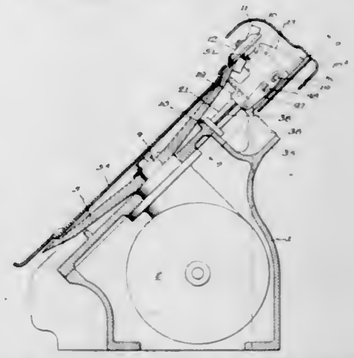
including said first named axis and parallel to said second surface from said second surface so that in two angularly and substantially spaced positions of said second member the same perpendicular to said second surface intersects said first axis, and the spacing of said second axis from said planes being so related to the extent of said second surface that in all positions of said second member intermediate said angularly spaced positions said second surface includes a portion the perpendicular to which intersects said first axis.

2,614,372
VALVE GRINDER
Louis W. Kelly, Alhambra, Calif.
Application October 2, 1948, Serial No. 52,441
13 Claims. (Cl. 51—241)



1. A valve grinder comprising a revoluble grinding head unit including a rotary grinding wheel and an air motor connected thereto, a supporting base unit including a base supporting said head unit and itself revolubly mounted upon a stationary pilot adapted to extend into the stem guide of the valve the seat of which is being ground, and an air conduit system to supply actuating air to said air motor including an air passage in said base and a connected passage extended through said pilot including the portion thereof adapted to extend through said stem guide.

2,614,373
SLICING MACHINE WITH KNIFE-GRINDING MEANS
Adrianus van Duyn, Hillegersberg, Rotterdam, and Jetze van Hoorn, Voorburg, Netherlands, assignors to U. S. Slicing Machine Company, Inc., La Porte, Ind., a corporation of Indiana
Application February 14, 1948, Serial No. 8,354
In Great Britain October 4, 1946
3 Claims. (Cl. 51—248)

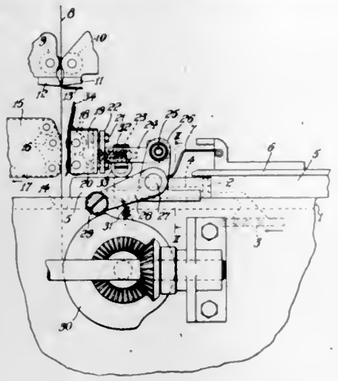


1. A slicing machine comprising a frame, a knife bracket extending from said frame, a slicing knife, knife-grinding apparatus for said knife, a casing in which said apparatus is mounted, said casing and apparatus constituting a unitary assembly, means for mounting said assembly upon said knife bracket for movement to operative and inoperative positions, said casing cooperating with the knife bracket to enclose the knife-grinding apparatus in an inoperative position, said mounting means for the unitary assembly including guide means for guiding the assembly from said inoperative position to an operative position, said mounting means being adapted to permit the assembly to be shifted manually away from the knife bracket without the use of tools, said mounting means being adapted to permit detachment and removal of said apparatus by a simple manipulation not involving the use of tools, a slot-like socket in said apparatus, a spring mounted on said apparatus, and an internal limb on said casing adapted to fit neatly into said socket and having a locking recess engageable by said spring automatically when the limb is pushed fully home in the socket.

2,614,374
COVER FEED FOR WRAPPING OR PACKING MACHINES
Charles Thomas Hall, Deptford, London, England, assignor to Molins Machine Company Limited, London, England, a British company
Application January 30, 1950, Serial No. 141,314
In Great Britain February 9, 1949
1 Claim. (Cl. 53—155)

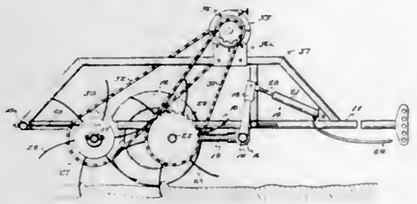
In apparatus for feeding separate sections of wrapping material in overlapping relation so as to prevent relative displacement of the overlapped sections during feeding, the combination with an endless band moving in a fixed path, and means driving said band, of a reciprocable carriage, a plurality of idler rollers mounted on said carriage, mechanism for reciprocating said carriage toward and away from said band to effect intermittent engagement between said rollers and said band, whereby overlapped wrapper sections fed between said rollers and said band may be periodically engaged and fed by said band, and

yielding means interposed and acting between said rollers and said carriage for applying light



pressure between said rollers and band during engagement thereof.

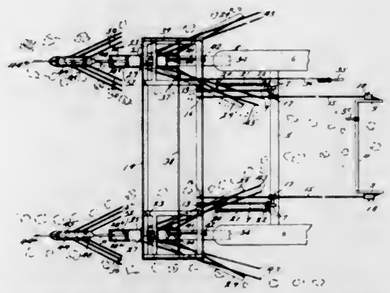
2,614,375
REVOLVING SPRING TOOTH HARROW
Dwight L. Calkins, Spokane, Wash., assignor to Calkins Manufacturing Company, Spokane, Wash., a corporation of Washington
Application July 12, 1948, Serial No. 38,303
3 Claims. (Cl. 55—11)



3. A rotary spring tooth harrow comprising a frame, means to support the frame above the ground, means for attaching the frame to a pulling device, two shafts extending transversely of said frame and rotatably mounted thereon, spring teeth secured to each shaft, said teeth being spaced apart lengthwise and circumferentially of the shaft, whereby engagement of the teeth with the ground, as the harrow is drawn forward, exerts a force tending to turn the shaft so that the teeth in rear of the shaft rise and the teeth in front of the shaft move down, the teeth in rear of the front shaft being intermeshed with the teeth in front of the rear shaft, and a retarding device operably connected with each shaft limiting its rotation, by said force, to a predetermined rate.

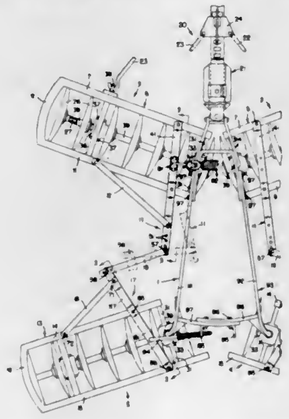
2,614,376
BEAN AND PEA PLANT CUTTER
Alvin R. Madsen, Rupert, Idaho
Application August 19, 1949, Serial No. 111,249
3 Claims. (Cl. 55—64)

1. A machine for severing plants in rows, a tractor having a front axle to which said machine is attached, said machine being entirely located forwardly of the tractor, said machine comprising a transversely disposed horizontal frame, forward of the tractor, ground engaging skids carried by said frame forwardly of said tractor, diverging cutter bars carried by said skids and a parallel link connection between said frame and said axle and forming means whereby said skids are maintained in a horizontal position upon upward and downward movement of the



frame, means for raising and lowering said frame horizontally hinged depth regulating plates carried by the skids and lever control means for pivotally adjusting said plates.

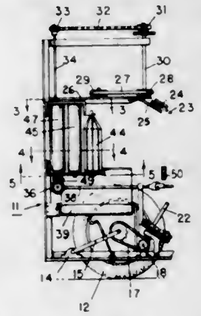
2,614,377
DISK HARROW ANGLING ARM
William P. Oehler, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 28, 1948, Serial No. 46,687
3 Claims. (Cl. 55—83)



1. In a tandem disk harrow of the type having a main frame, pairs of front and rear gangs swingably connected therewith, each gang of the pair of rear gangs including a gang frame having front and rear bars, and means for swinging the front gangs relative to the main frame, interconnecting means connecting the rear gangs with the front gangs comprising a combined angling arm and spring support connected to each pair of the front and rear bars of the rear gangs, each combined angling arm and spring support including a section disposed adjacent the laterally inner ends of the front and rear bars of the associated gang and having, between said bars, an upwardly extended portion, disk gang thrust-resisting spring means connected between the upwardly extending portions of said combined angling arm and spring supports, each of said combined angling arm and spring supports also including a portion forming a generally forwardly directed angling arm portion, each of said combined angling arm and spring supports being symmetrical about a vertical longitudinal plane and each having at the

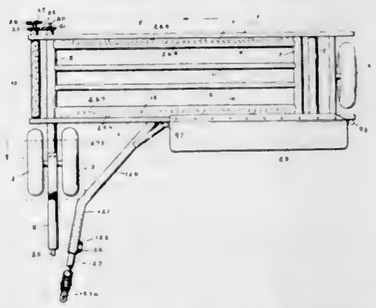
forward end of its angling arm portion a link-receiving aperture disposed in said plane, a pair of bars fixed to the front gangs and extending rearwardly therefrom, a link pivotally connected to the forward end of each of said combined angling arm and spring supports at the opening in said angling portion thereof, and means for pivotally connecting the lateral inner ends of said links with the rear ends of said bars.

2,614,378
CORN HARVESTER
John D. Barnard and Alton Leverson, Le Sueur, Minn., assignors to Green Giant Company, a corporation of Minnesota
Application August 4, 1949, Serial No. 108,557
3 Claims. (Cl. 56—107)



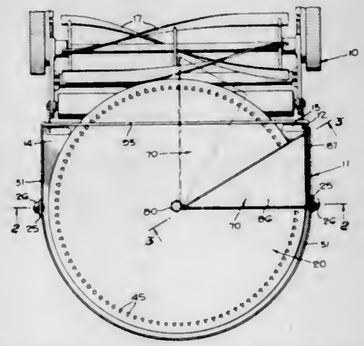
1. A picker for ears of soft corn comprising a portable frame, conveying means for horizontally conveying cut stalks of corn suspended by their tassel ends, a pair of ear-snapping rolls through which the stalks are drawn by the conveying means tassel-end foremost, a pair of drawing rolls engaging the stalks tassel-end foremost as they pass beyond the snapping rolls and a second pair of drawing rolls beyond the said first pair and on the continuation of the common tangent of the snapping rolls and the first drawing rolls.

2,614,379
HARVESTER FOR PEA VINES AND THE LIKE
Wellington W. Porter, Junius, N. Y.
Application November 17, 1947, Serial No. 786,454
19 Claims. (Cl. 56—173)



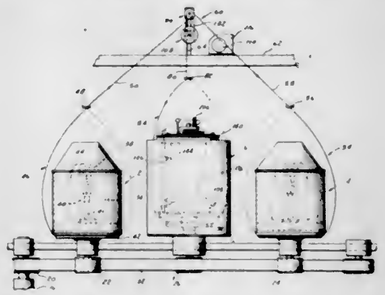
1. In a harvester for pea vines and the like the combination of a rigid rectangular upright frame which frame includes a shoe at each lower corner of the frame, said shoes being adapted to ride on the ground, a horizontal bar attached to said shoes and spacing them apart, an invented U-shaped frame attached to said shoes, a second upright frame back of said first named frame and substantially parallel thereto, a rigid bar flexibly connecting said frames at the bottom on each side, a bar flexibly connecting said frames at the top on each side, said bars being independent of one another, second named said bars being adjustable lengthwise to tilt to the first named frame and its shoes with respect to the second frame, a bracket on each side of the second frame above the rigid bar, springs connecting the rigid bars and the brackets tending to lift the forward ends of the rigid bars.

2,614,380
LAWN MOWER GRASS CATCHER
Paul G. Gates, Long Beach, Calif.
Application September 9, 1950, Serial No. 184,043
5 Claims. (Cl. 56—199)



1. A grass catcher for lawn mowers comprising a body releasably attached to said lawn mower, a rotatable floor supported by said body, means carried by said body and in cooperating relationship with said floor for supporting and arresting cut grass deposited on said floor, and ground-engaging means secured to said body and adapted to rotate said floor when said mower is moved in one direction.

2,614,381
TWISTING SPINDLE BALLOON COMPENSATING DEVICE
Henry C. Uhlig, Clifton, N. J., assignor to Howe Twister Corporation, Jersey City, N. J., a corporation of New Jersey
Application March 27, 1951, Serial No. 217,739
8 Claims. (Cl. 57—58)



1. A tension compensating device for elongated material travelling in the direction of its length from a first zone of initial tension into a second zone of greater tension comprising means for detecting the tension in the material at the tension device, said tension detecting

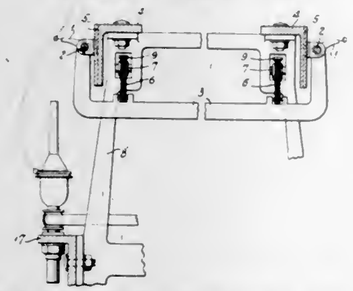
means including a roller guide deflected in response to changes in the tension in the material, means mounting the roller guide to allow such deflection, means constantly urging the guide roller in such direction as to oppose deflection by the material, a member positioned by the roller guide mounting means for variably retarding rotation of the roller guide by frictionally engaging a run of the material after it has left the tension detecting means, and means connecting the roller guide retarding member to the roller guide so that said roller guide retards the material with a variable force.

2,614,382

THREAD GUIDE SUPPORT IN SPINNING MACHINES

Walter Hoffmann, Zurich, Switzerland, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland, a corporation of Switzerland

Application April 28, 1950, Serial No. 158,664
In Switzerland May 2, 1949
9 Claims. (Cl. 57—110)



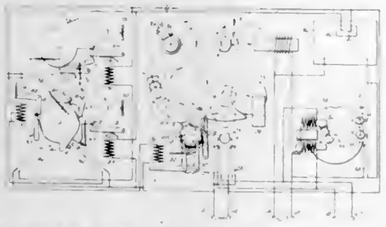
1. In a spinning machine having two ends, a support means placed on each end of the machine, vertical guide means connected with said support means, a plurality of carrier members individually having a substantially horizontal portion extending transversely to and underneath said support means and having vertical end portions individually guided in said guide means for affording guided up and down motion of said carrier members, a support member connected with said vertical portions on each end of the machine, and thread guides supported by said support member.

2,614,383

METHOD AND DEVICE FOR WIRELESS CONTROL OF MASTER CLOCKS

Václav Pfeffer, Zelena, Prague, Czechoslovakia

Application September 3, 1946, Serial No. 694,665
In Czechoslovakia September 27, 1945
2 Claims. (Cl. 58—24)



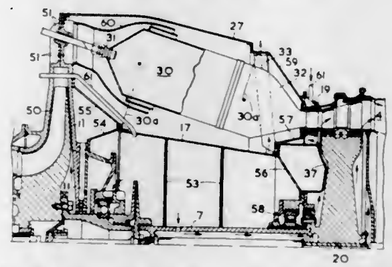
1. A system of clocks including a master clock and a series of subsidiary clocks actuated thereby comprising means for periodic correction by a time signal comprising a combination of impulses transmitted by wireless, wherein a signal of a predetermined frequency is passed over a filter circuit in a receiver as a tone frequency current, and means such as a control device are provided for analyzing the signal received so that only when it consists of the right combination of impulse will the correction means be operated, and wherein said correction means adjusts a releaser of an initiator mechanism for transmitting the actuating impulses from the master to the subsidiary clocks.

2,614,384

GAS TURBINE PLANT HAVING A PLURALITY OF FLAME TUBES AND AXIALLY SLIDABLE MEANS TO EXPOSE SAME

Geoffrey Bertram Robert Feilden, Lutterworth, England, assignor to Power Jets (Research and Development) Limited, London, England

Application January 14, 1946, Serial No. 641,144
In Great Britain January 16, 1945
7 Claims. (Cl. 60—39.31)



1. A gas turbine power plant comprising a compressor assembly consisting of a compressor rotor and an enclosing stationary structure, a turbine assembly consisting of a turbine rotor coaxial with the compressor rotor and an enclosing stationary structure, a shaft carrying said rotors, a combustion system accommodated between the compressor and turbine assemblies, said combustion system including an annular air-casing formed by an inner and outer tubular member mounted coaxially with the shaft and defining between them a flow path from said compressor to said turbine extending generally in an axial direction, and a plurality of flame tubes mounted within and annularly distributed around said air-casing, said outer tubular member being a unitary structure, the internal diameter of which over at least part of its length adjacent one end, is greater than the external diameter of the stationary structure adjoining said end of the tubular member, the external diameter of said stationary structure being less than the internal diameter of said tubular member from a point adjacent said end of said tubular member to a point located a substantial distance in a direction axially away from said tubular member, whereby said tubular member can be withdrawn over said stationary structure to expose the flame tubes.

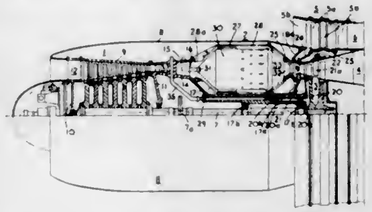
2,614,385

SUPPORTING STRUCTURE FOR GAS TURBINE POWER PLANTS

Geoffrey B. R. Feilden, Canwick, Lincoln, England, assignor to Power Jets (Research and Development) Limited, London, England, a company of Great Britain

Original application January 14, 1946, Serial No. 641,144. Divided and this application August 30, 1949, Serial No. 113,117. In Great Britain January 16, 1945
1 Claim. (Cl. 60—39.37)

A gas turbine power plant comprising a compressor assembly including a compressor rotor and an enclosing compressor stationary structure which includes a wall on the downstream side of the compressor rotor; a turbine assembly including a turbine rotor coaxial with and axially spaced from the compressor rotor and an enclosing turbine stationary structure which includes a wall on the upstream side of the turbine rotor; a driving shaft carrying said rotors; bearings mounted in said walls in the compressor and turbine stationary structures and supporting said shaft; and a combustion system lying be-



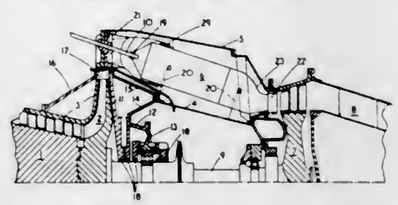
tween the compressor and turbine assemblies and including an aircasing formed by an inner and an outer tubular axially extending wall coaxially surrounding said shaft, the aircasing forming a path for working fluid from the compressor to the turbine extending generally in an axial direction, and at least one flame tube within the aircasing; said inner wall being a unitary structure and rigidly attached at its ends to said compressor and turbine stationary structures to form the backbone of the plant.

2,614,386

SUPPORTING AND REINFORCING STRUCTURE FOR GAS TURBINE ENGINES

Roderick Cristall McLeod, Cropston, Leicester, Geoffrey Bertram Robert Feilden, Lutterworth, near Rugby, and James Hodge, Narborough, Leicester, England, assignors to Power Jets (Research and Development) Limited, London, England

Application February 13, 1946, Serial No. 647,250
In Great Britain February 20, 1945
4 Claims. (Cl. 60—39.37)



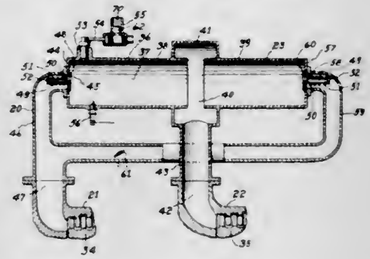
1. A gas turbine power plant comprising; a compressor assembly consisting of a compressor rotor and an enclosing compressor stationary structure including a wall on the downstream side of the compressor rotor; a turbine assembly consisting of a turbine rotor coaxial with and axially spaced from said compressor rotor and an enclosing turbine stationary structure; a driving shaft carrying said rotors; a combustion system annularly disposed about said shaft between said assemblies and defining a flow path from the compressor to the turbine extending generally in the axial direction; an outer tubular member surrounding said combustion system; a hollow box-like annular reinforcing structure coaxial with said shaft, and rigidly attached to said compressor wall at two concentric localities thereon; an inner tubular member coaxially enclosing said shaft and rigidly attached to said reinforcing structure at one end and to said turbine stationary structure at the other end to form a main means for supporting the power plant structure downstream of said compressor; and bearing structure carried in said compressor wall and supporting said shaft.

2,614,387

INTERMITTENT EXPLOSION UNIT FOR GAS TURBINE PLANTS

James H. Anderson, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey

Application September 17, 1946, Serial No. 697,465
7 Claims. (Cl. 60—39.65)



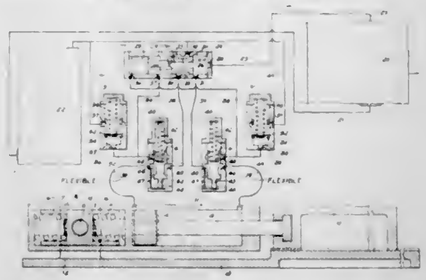
6. An explosion power unit comprising, a casing having a chamber therein having an explosion end and a non-explosion end, means for periodically forming explosive charges at the explosion end portion only of said chamber, an ignitor at the explosion end only for igniting such charges, an outlet for said chamber at the mid-portion of the casing, and a cooling-air inlet valve adjacent the non-explosion end of said chamber actuated in response to variations of pressure within said chamber to periodically introduce cooling air into said chamber.

2,614,388

POWER TRANSMISSION

Frederick B. Miller, Chicago, Ill.

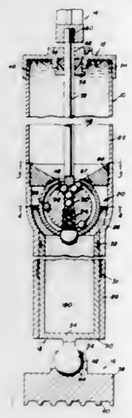
Application January 8, 1948, Serial No. 1,160
6 Claims. (Cl. 60—52)



6. In an hydraulic power transmission having a base, a fixed displacement source of fluid, a productive element mounted for reciprocating movement relative to said base, a motor adapted to reciprocate said productive element, said motor comprising a motor cylinder and a motor piston reciprocally mounted in said motor cylinder, said motor piston being provided with ends adapted to abut respectively the opposite ends of said motor cylinder, a resilient connection inter-

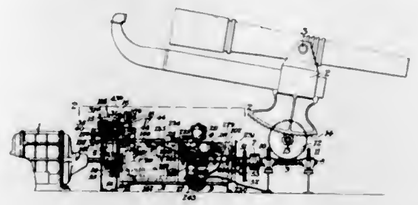
mediate said base and said productive element, said resilient connection being adapted to yield during the deceleration and acceleration period of said productive element at the end of each stroke, a selector valve connected with said fixed displacement source of fluid, said selector valve being provided with a spool adapted to be actuated for directing and releasing fluid to and from the opposite ends of said motor cylinder alternately to impart reciprocating movement to said productive element, said resilient connection being adapted to yield during said deceleration and acceleration period of said productive element by reason of fluid being directed between said abutting ends of said motor piston and said motor cylinder which causes said abutting ends of said motor piston and said motor cylinder to separate to provide space for absorbing the displacement of fluid from said fixed displacement source of fluid during said deceleration and acceleration period of said productive element, whereby said displacement of fluid from said fixed displacement source of fluid is not interrupted and deceleration and acceleration of said productive element is effected in a smooth and uniform manner.

2,614,389
REVERSIBLE HYDRAULIC JACK
Francis S. Coyle, Paonia, Colo., assignor of fifty per cent to Wendell P. Coyle, Eagleville, Mo.
Application July 17, 1950, Serial No. 174,329
5 Claims. (Cl. 60—52)



1. A rotary hydraulic jack comprising a substantially cylindrical housing open at both ends, a cap closing the upper end and having a drive shaft opening therein, a piston closing the opposite end and slidably disposed in said housing, a pressure head mounted in said housing intermediate its ends and having a pair of vertically disposed grooves on its inner surface, a drive shaft extending into said housing through said opening in said cap, a pressure auger integrally formed on the lower end of said shaft and disposed within said pressure head, retaining means sealingly maintaining said pressure head in a preselected position in said housing, a plurality of spiral grooves on said pressure auger, a ball return passage in said auger and communicating with the upper and lower ends of said spiral grooves and vertically disposed grooves, a spring closed ball check valve positioned at the lower end of said ball return passage and adapted to close an opening in the bottom of said pressure head, the opening in said pressure head being in communication with said spiral and vertically disposed grooves, a plurality of balls in said grooves and ball return passage adapted to be motivated by rotation of said drive shaft and pressure auger and the relative movement of the pressure auger groove with respect to the pressure head groove whereby fluid above said pressure head is pumped through the grooves and into the chamber behind said piston.

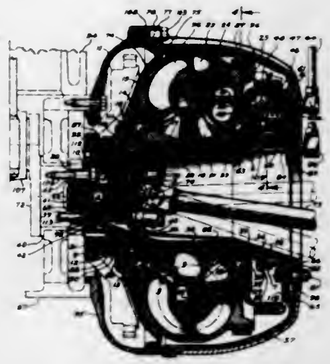
2,614,390
REVERSIBLE HYDRAULIC DRIVE, INCLUDING FOLLOW-UP SYSTEM
Edward J. Poitras and James D. Tear, Jackson Heights, Great Neck, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application January 11, 1935, Serial No. 1,290
19 Claims. (Cl. 60—53)



2. In a mechanism for driving an object in accordance with the movements of another object, the combination comprising a movable object, a driven object, variable-speed, power-driven operating means for the driven object, a control for the driving means comprising a movable element adapted upon movement to effect changes in speed of the operating means, control means for said movable element, actuating means operable in accordance with the difference in movement between the movable and driven objects, means actuated by said movable element, and means under the differential control of the actuating means and of the means actuated by the movable element for effecting the operation of said movable-element control means.

16. In hydraulic follow-up control means for a controlled device, a first chamber of variable volumetric capacity, means for altering the volumetric capacity of said first chamber, a second chamber of variable volumetric capacity, means active to alter the volumetric capacity of said second chamber conformably with and responsive to operation of the controlled device, a third chamber of variable volumetric capacity, the volumetric capacity of said third chamber being altered upon change in volumetric capacity of said first and second chambers, a control element arranged to move responsive to change in volumetric capacity of said third chamber and active to regulate the operation of said controlled device, means connecting said chambers with one another to form a closed hydraulic circuit and means arranged to maintain a substantially constant predetermined pressure in said circuit during the time that the volumetric capacities of all of said chambers remain constant, departure from said predetermined pressure in said circuit being accompanied by change in the volumetric capacity of said third chamber and said control element being responsively moved in a direction to cause operation of the controlled device in a direction and to an extent to effect corrective change in the volumetric capacity of said second chamber to thereby restore the predetermined pressure in said circuit.

2,614,391
ROTARY HYDRAULIC TORQUE CONVERTER TRANSMISSION
John Pavlecka, Oak Park, Mich.
Application December 1, 1947, Serial No. 788,996
17 Claims. (Cl. 60—54)

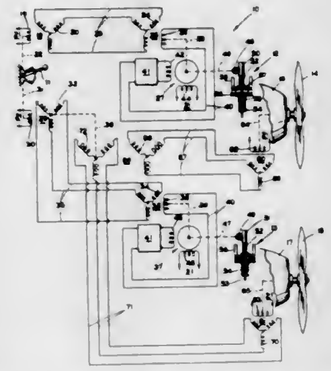


1. In a hydraulic torque converter transmission, an input member having one end driven by a power source, an impeller secured to the other end thereof, one bearing at each of said input member ends, an output member, a reactor, and a turbine having a tubular hub, two spaced bearings in said hub and a third bearing on one end thereof remote from said impeller, said turbine hub being supported rotatably in said input member impeller bearing, said reactor being carried rotatably on said turbine hub third bearing, and said output member being journalled rotatably in said input member driven end bearing and in said two spaced turbine hub bearings.

5. In a hydraulic torque converter transmission, an input member, an output member, an impeller secured to said input member, a reactor, a two-stage turbine jointly with said impeller and reactor forming a torus, the first turbine stage occupying an outer lateral sector and the second stage an inner central sector of said torus, said sectors being interconnected between said impeller and said reactor, said impeller occupying the wider and said reactor the narrower remaining sectors of said torus, bearing means on opposite sides of said second turbine stage, one of said bearing means supporting said turbine rotatably from said input member and the other one supporting said reactor rotatably on said turbine, bearing means in said input member and in said turbine for supporting said output member rotatably, means on said first turbine stage and on said reactor for arresting them selectively against rotation, said arresting means being located at the axial end of said torus remote from said impeller, and means connected to said second turbine stage and to said recator within and adjacent to said arresting means for clutching them selectively to said output member.

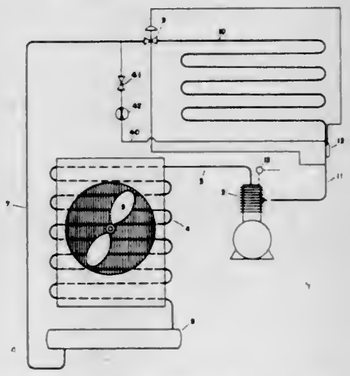
2,614,392
ENGINE SYNCHRONIZATION MEANS
Paul F. Bechberger, Tenafly, and Joel D. Peterson, Ridgewood, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application July 15, 1947, Serial No. 760,950
8 Claims. (Cl. 60—97)

7. A speed control and synchronizing system for a plurality of engines having speed regulating means, one of said engines serving as a master engine; comprising means for developing a signal voltage in accordance with a desired engine speed, motive means actuating each of the speed regulating means responsive to said signal voltages, means driven by the engines to



develop signals responsive to engine speeds, and differential means responsive to the speed signals and operative upon differences in the speeds of said engines to vary the initial signal voltages controlling the slave motive means for synchronizing the speeds of the engines.

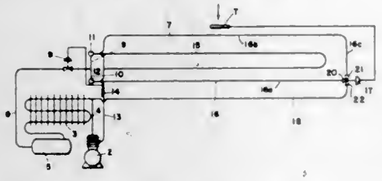
2,614,393
ART OF REFRIGERATION
Edward L. Schulz, Lakewood, Ohio, and Edward A. Bailey, Marietta, N. Y., assignors to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application February 2, 1946, Serial No. 645,183
3 Claims. (Cl. 62—3)



1. In a refrigeration system, the combination of a compressor, a condenser, an expansion valve and an evaporator disposed in a closed circuit, means disposed adjacent the suction line for controlling the operation of said expansion valve, a bypass extending from the discharge line to the suction line, the juncture of said bypass with the suction line being disposed between the discharge end of the evaporator and the control means for the expansion valve, a second valve in said bypass, said bypass having an orifice therein adapted to regulate the quantity of refrigerant passing therethrough, said second valve being responsive to an increase in condenser pressure above a predetermined level to move toward an open position permitting refrigerant to pass through said bypass, passage

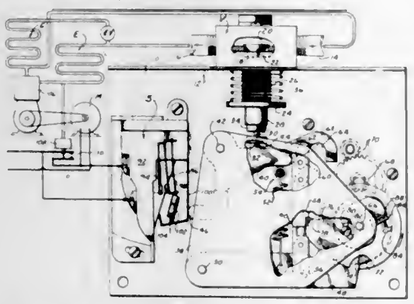
of refrigerant through the bypass into the suction line actuating said control means to operate the expansion valve.

2,614,394
CAPACITY CONTROL FOR AIR CONDITIONING SYSTEMS
William L. McGrath, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application November 20, 1946, Serial No. 711,156
7 Claims. (Cl. 62—3)



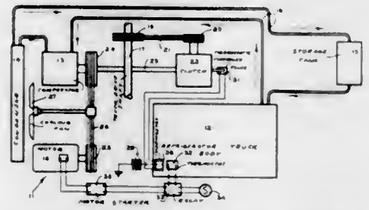
3. In a refrigeration system, the combination of a compressor, a condenser, a heat exchanger, and means for metering the amount of cooling fluid passing to said exchanger, said compressor, condenser, exchanger and metering means forming a closed circuit, said exchanger including a plurality of separate sections, one of said exchanger sections extending through the leaving air portion of said exchanger and then through the entering air portion of said exchanger, the entering air portion of said section being connected to a suction line leading to the compressor under normal conditions of operation refrigerant flowing through the leaving air portion and then through the entering air portion to the suction line, a second line connecting said section having a leaving air portion directly to said compressor to permit heating fluid to pass from the compressor into the leaving air portion of said section, and means for controlling the passage of heating fluid from the compressor into the leaving air portion of said section, heating fluid condensing in the leaving air portion and passing to the remaining sections of the exchanger.

2,614,395
DEFROSTER CONTROL
Harold S. King, Elkhart, Ind., assignor to Penn Controls, Inc., a corporation of Indiana
Application July 29, 1948, Serial No. 41,282
13 Claims. (Cl. 62—4)



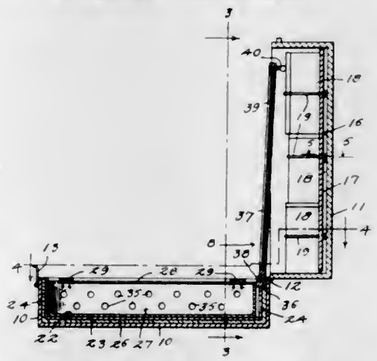
7. In an automatic defrost control device for use in a refrigeration system, a valve, a first spring for biasing said valve in a closed position, a second stronger spring capable when stressed and operative when released from a stressed position to open said valve with a snap action against said first spring, a synchronous timer motor, means driven by said motor for stressing said second spring over a period of time and for effecting its release at a predetermined time, a member movable to a first position in which said second spring is rendered operative when released from its stressed position to open said valve and to hold it open, and movable to a second position in which said second spring is rendered inoperative to hold said valve open, whereby said valve may again be closed with a snap action by said first spring, spring means for biasing said member in one position, and means driven by said motor for moving said member to its other position.

2,614,396
REFRIGERATING SYSTEM FOR MOTOR VEHICLES
Alfred C. Ratermann, St. Louis, Mo.
Application January 30, 1947, Serial No. 725,310
6 Claims. (Cl. 62—4)



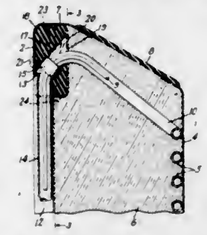
1. In combination with a refrigerating system for motor vehicles having a compressor, means for driving said compressor comprising a power take-off connecting with a vehicularly driven shaft and a hydraulically operated clutch having a driving shaft connected with said power take-off, a driven shaft connecting with said compressor, and a pump connected to and driven by said driving shaft and supplying liquid under pressure to the clutch whereby when the vehicularly driven shaft is not operating no liquid is supplied for actuating the clutch.

2,614,397
REFRIGERATED SALES DISPLAY KIT
Richard E. Petty, Columbus, Ga.
Application September 7, 1951, Serial No. 245,613
2 Claims. (Cl. 62—91.5)



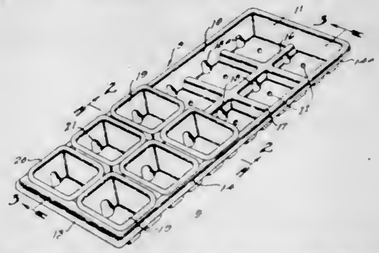
1. A sales display kit comprising a container consisting of a recessed bottom section and a top section connected to the bottom section for closing or exposing an open top of the bottom section, an elongated tray disposed in said bottom section including a bottom, side walls and end walls, a lining of heat insulating material disposed between the walls of said bottom section and the bottom, side walls and end walls of said tray, a refrigerant containing receptacle removably mounted in said tray transversely thereof and spaced from the end walls of the tray, a hinged closure forming a top wall of said receptacle, said receptacle having apertured side walls for the circulation of cold air between the interior of the receptacle and the end portions of the tray, a transparent closure connected to the tray and closing the open top thereof when the container is in either an open or a closed position, said transparent closure being swingably connected to the tray for swinging movement to an open position, when the top section is in a position for exposing the open top of the bottom section, for exposing the tray and receptacle, a plurality of detachable partitions disposed in the tray between the end walls thereof and the side walls of said receptacle and engaging said end walls of the tray and receptacle side walls for dividing the end portions of the tray into compartments and for retaining the receptacle against sliding movement longitudinally of the tray, and means secured to the side walls of the receptacle and detachably connecting the partitions to the receptacle.

2,614,398
TUBE SEAL
Robert E. Goure, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application December 27, 1951, Serial No. 263,676
3 Claims. (Cl. 62—99)



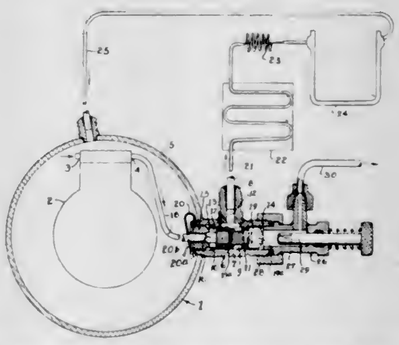
3. In a refrigerated cabinet construction including an outer case having a wall and a face portion, a liner, evaporator tubing secured to the exterior surfaces of the walls of said liner and means whereby a sealed space is provided between said outer case and liner, means for providing a sealed passage of a tubing elbow consisting of a capillary tube and a suction line secured together in heat exchange relationship into said sealed space for connection to said evaporator tubing comprising; a channel formed in a side wall of said outer case, said channel terminating at its upper end in a passage adjacent said outer case face portion for admitting said elbow into said sealed space, a sleeve fitted on said elbow just inside of said outer case, means whereby the space between the inner periphery of said sleeve and the outer peripheries of said capillary tube and said suction line is sealed, a block of rubber conforming to the inner side of said outer case wall about said passage therein and the inner side of said face portion, a passage in said rubber block for receiving said sleeve on said tubing elbow, said block passage running substantially parallel to the outer periphery of said sleeve for maximum surface engagement therebetween, one end of said passage in said block being substantially in register with said passage terminating said channel, an L-shaped bracket cooperating with at least two sides of said rubber block, a passage in one leg of said bracket being substantially in register with the other end of said block passage for affording passage of said tubing elbow therethrough, means engaging said outer case wall and one leg of said bracket for drawing said bracket toward said outer case wall, and means engaging said face portion of said outer case and the other leg of said bracket for drawing said bracket toward said face portion, whereby said block is displaced, displacement of said block being effective for sealing about said passage in said outer case wall and for constricting said passage in said block for sealing about said sleeve.

2,614,399
ICE TRAY
John H. Roethel, Detroit, Mich., assignor to Roethel Engineering Corporation, Detroit, Mich., a corporation of Michigan
Application October 19, 1948, Serial No. 55,419
7 Claims. (Cl. 62—108.5)



1. A liquid freezing tray comprising surrounding side walls and a bottom integral therewith, the bottom being formed with upstanding intersecting ribs providing receptacle receiving spaces therebetween, and said bottom also having drain openings, a receptacle, and projecting means on one of the ribs engaging in a recess in the receptacle for restraining displacement of said receptacle.

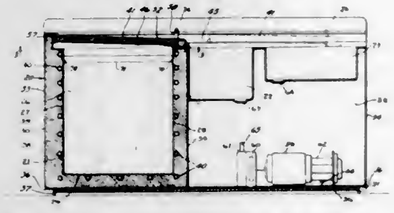
2,614,400
CHARGING VALVE IN REFRIGERATION APPARATUS
Edward M. May, Detroit, Mich., assignor to Meco-Pilot Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application January 6, 1950, Serial No. 137,075
13 Claims. (Cl. 62—115)



8. In closed circuit refrigeration apparatus, the combination of a valve device body structure having an interior chamber, a first passage in free communication with said chamber and leading to the exterior of the body, a second passage with associated valve seat in communication with

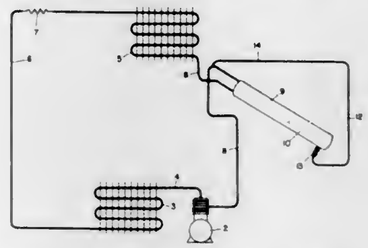
the interior chamber and leading to the exterior of the body and a third passage with associated valve seat also in communication with the interior chamber and leading to the exterior of the body; a valve for the second passage of the body structure arranged to cooperate with the seat thereof to control flow between the valve and the wall of the passage, said valve being exposed through the second passage to the exterior of the valve body and being formed with a passage opening at one end through the exposed part of the valve for hermetic connection to an end of a conduit disposed outside the valve body and opening at its other end into the interior chamber of the valve body; a valve arranged to cooperate with the seat of the third passage to control flow therethrough; and manually operable means for moving the valves relative to their seats.

2,614,401
TOP ACCESS REFRIGERATOR AND COVER THEREFOR
Bernard Roberts, Bronx, N. Y.
Application July 23, 1949, Serial No. 106,469
9 Claims. (Cl. 62—116)



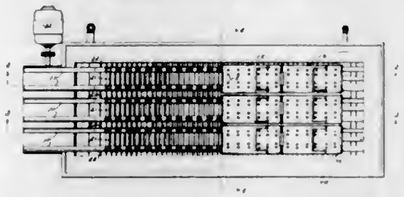
1. In a cabinet of counter-height and in combination, an outer case substantially counter-high, said case being open at the top, a partition wall positioned within said case and extending from the front wall to the back wall thereof to subdivide said case into two adjoining compartments, said partition wall forming a wall common to both compartments, a deep-freezing food storage well positioned in one of said compartments, said well being open at the top and having side and end walls and a bottom wall otherwise completely enclosing said food-storage well, of lesser dimensions than said compartment thereby forming a chamber between the side, end and bottom walls of said well and the side walls, end wall, partition wall and bottom wall of said compartment, heat insulating material packed in said chamber to oppose passage of heat from said side, end, bottom and partition walls to the walls of said well, a sink positioned in said other compartment, the top edges of the side and end walls of said well and the mating edges of the corresponding walls of said outer case being spacedly separated from each other to define a gap, a strip of material of high thermal resistance positioned in and preventing conduction of heat across said gap, the top edges of said well and of said sink being disposed on substantially the same level, the walls of said cabinet, well, and sink, in conjunction, co-operating to define a spaced pair of oppositely disposed parallel guide-channels extending lengthwise of said cabinet and overlying said well and said sink, a hollow drain board defining a cover-member, the cavity in said cover-member being packed with heat insulating material to oppose passage of heat therethrough, said cover-member being slidably movable in said guide-channels to alternatively overlie either the mouth of the well or the sink opening, and said cover-member in one position thermally sealing the mouth of said well and defining a counter-top draining into said sink and in the other position forming a sink-cover and loading-platform for food to be stored in the well.

2,614,402
OIL RETURN MECHANISM FOR REFRIGERATION SYSTEMS
Richard H. Swart, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application December 15, 1948, Serial No. 65,487
2 Claims. (Cl. 62—117.75)



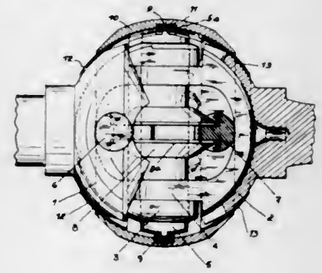
1. In a refrigeration system, the combination of a compressor, a condenser, an expansion device and an evaporator, a suction line connecting the evaporator and the compressor, an accumulator adapted to receive oil and refrigerant from the evaporator, and means for returning oil collected in the accumulator, said means including an outlet in the accumulator of relatively small diameter, and a conduit of relatively small diameter connecting the outlet to the suction line, said conduit having a portion extending downward from the accumulator and exposed to ambient atmosphere to cause liquid refrigerant to vaporize therein, the vaporized refrigerant flowing upward to restrict the accumulator outlet, oil returning from the accumulator through the conduit to the suction line, the outlet and the conduit being so constructed and arranged that liquid refrigerant in the downward extending portion of the conduit is vaporized producing a series of bubbles which flow upward into the accumulator to restrict the outlet thereby blocking free flow of liquid refrigerant through the outlet, and means to increase the temperature of the downward portion of the conduit.

2,614,403
MOLD FREEZING APPARATUS
Walter E. Heise, Syracuse, N. Y.
Application October 18, 1949, Serial No. 121,945
2 Claims. (Cl. 62—160)



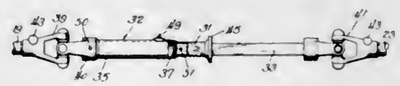
1. A freezing apparatus for confection molds comprising a tank containing a liquid cooling medium, a guide rail extending lengthwise of the tank for supporting a procession of molds, said tank being formed with an up-flow compartment arranged centrally below said guide rail and extending lengthwise thereof, a down-flow compartment extending adjacent each side of said up-flow compartment, a series of refrigerating tubes extending lengthwise in said up-flow and down-flow compartments, a series of fins arranged on said tubes, said fins being spaced apart in a direction lengthwise of the tubes and forming vertically arranged tortuous passages for the flow of the cooling medium, the fins in said up-flow compartment having laterally extending flanges at their upper ends to restrict the discharge area of said passages, and a circulating means having a discharge connected to said up-flow compartment and a suction connected to said down-flow compartments.

2,614,404
HOMOKINETIC JOINT
Gaston Louis Arthur Devos, Paris, France
Application October 5, 1948, Serial No. 52,885
In France January 19, 1948
4 Claims. (Cl. 64—21)



1. A homokinetic joint for shafts of variable relative angular position which comprises a jaw secured to the coupling end of each shaft, each jaw having a groove and a bore therein, a segment mounted on each jaw and rotating in said groove, a pivot coupling said segments to one another, a guide member retaining said pivot constantly on the bisector of the angle formed between the two shafts and sliding on said pivot, a pair of half caps forming a casing, a collar on which the half caps are engaged, said collar positioned on said pivot; a driving pin pivotally mounted in the bore of each jaw at right angles to said pivot, and operatively engaging said member, said guide member comprising a disc slidably mounted on the pivot of the segments and a circular groove provided in the disc engaging projections carried by each driving pin.

2,614,405
POWER TAKE-OFF COUPLING
Leon R. Clausen, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application June 19, 1947, Serial No. 755,643
4 Claims. (Cl. 64—23)



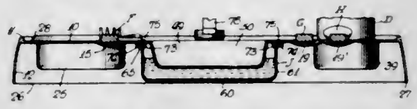
4. An extensible, power take-off coupling of the class described, comprising an inner shaft member having a rectangular cross-section and an outer shaft member, said outer shaft member being tubular in form and having an enlarged portion, which is circular in cross-section, and a portion of reduced cross-sectional area, said portion of reduced cross-sectional area having a rectangular cross-section and being proportioned to engage said inner shaft member with a sliding fit, the interengaging surfaces of said inner shaft member and said reduced area portion serving to operatively interconnect said shaft members for the transmission of rotary motion, said inner shaft member having an enlarged cylindrically-shaped piston portion which fits within the enlarged circular cross-section portion of said outer shaft member with a sliding fit and which prevents separation of said shaft members, and means for introducing lubricant into the enlarged portion of said outer shaft, in order that said piston portion shall be operable to dampen longitudinal shocks which result during the operation of said coupling.

2,614,406
DRINKING RIM FOR BEER CANS
Oliver W. Carpenter, Lakewood, Colo.
Application April 24, 1950, Serial No. 157,687
2 Claims. (Cl. 65—13)



1. For use in combination with a beverage can that when opened has a vertical rim of cylindrical shape, an aid to drinking the beverage as one would normally drink from a glass, said aid comprising: an annular smooth ring of plastic and somewhat elastic material, said ring being substantially U-shaped in cross section so that it can be fitted snugly to the open rim of the can and readily removed therefrom for subsequent sterlization and reuse, the outer periphery of said ring having at its lower edge a tab joined integrally thereto and extending approximately radially, said tab being of such size and shape that it can readily be grasped between the thumb and a finger of the hand for facile manipulation.

2,614,407
CHILD'S FEEDING TRAY
Norman J. Mercer, Brooklyn, N. Y.
Application November 12, 1946, Serial No. 709,171
5 Claims. (Cl. 65—53)



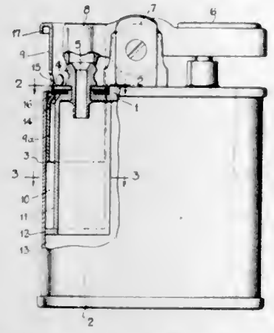
1. A children's feeding tray comprising a thin table-like structure having a depending skirt structure to elevate and support the same and having a depressed compartmented portion forming a food receptacle and a hot water container fitted under said depressed portion and enclosing the bottom of the same in water-tight fashion, said table-like structure with said depending structure being integrally molded in one piece of a plastic and said hot water container being also integrally molded in one piece of a plastic, and the upper edges of said hot water container having outward lugs for attachment to the bottom of said table-like structure, and a gasket positioned between said upper edges of said hot water container and the under surface of the table to form a water-tight connection.

2,614,408

CIGAR LIGHTER WINDSHIELD STRUCTURE

Warren I. Nissen, Newark, N. J., assignor to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey

Application November 3, 1949, Serial No. 125,190
2 Claims. (Cl. 67—7.1)



1. A cigar lighter having a fuel casing, said casing having a burner opening extending through an exterior wall thereof and also having therein a passageway extending through said exterior wall into the interior of the casing and shaped to largely surround said burner opening, a windshield also having side walls shaped to largely surround said burner opening and slidably received within said passageway to move between an inner position exposing the space adjacent the burner opening and an outer position shielding said space, said casing carrying, adjacent the aforesaid exterior wall thereof, a member extending transversely partially across said passageway from one wall thereof into pressing engagement with the adjacent side of said windshield, to thereby urge the opposite side of the windshield into contact with its corresponding side of said passageway, the aforesaid transversely extending portion of said last mentioned member substantially closing the portion of the passageway which lies between the windshield and the wall of the passageway from which said last mentioned member extends.

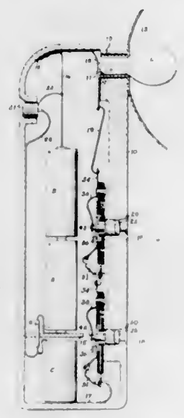
2,614,409

FLASH LAMP FIRING CIRCUIT

Harold L. Malone and Edgar S. Marvin, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 9, 1951, Serial No. 241,074
6 Claims. (Cl. 67—31)

2. A flash holder comprising in combination a housing, a lamp socket in said holder adapted to receive a flash lamp, a power pack in said housing for igniting said flash lamp, and including a capacitor, a battery and a limiting resistor connected in series with each other and said socket whereby said capacitor is charged only when a lamp is placed in said socket, a synchronizing switch in parallel with said capacitor and lamp socket to discharge said capacitor through said socket and ignite the lamp, an extension plug connected in series with said lamp socket and in that part of the circuit through which the capacitor is discharged and adapted to receive a connector for connecting another flash lamp into the lamp circuit in series with the socket of the holder, said extension plug including a contact of one polarity, a second contact of the other polarity, a third contact insulated from the other two contacts, a trimmer resistor electrically connected between said second and third contacts, a normally closed switch between said first and third contacts, a pair of terminals electrically connected to said first and second contacts, respectively, adapted to physically receive said extension connector and electrically connect the



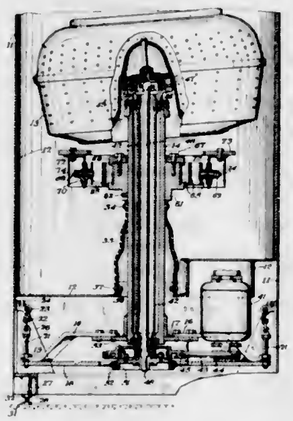
same into the circuit of said flash holder, one of said terminals movably mounted relative to said plug and connected to said switch so as to open the same when the extension connector is attached thereto, whereby when said extension is connected into the circuit said trimmer resistor is cut out of the circuit.

2,614,410

WASHING MACHINE PROVIDED WITH VIBRATION DAMPENER AND MOUNTING

James B. Kirby, West Richfield, Ohio, assignor to The Apex Electrical Manufacturing Co., Cleveland, Ohio, a corporation of Ohio, as trustee

Application February 18, 1947, Serial No. 729,372
9 Claims. (Cl. 68—23)



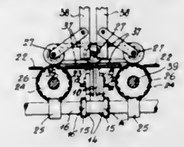
2. In a machine, a subframe comprising a base and a member extending upwardly from the base, a rotor mounted on the top of said member, means on the subframe for imparting rotary and oscillating motions to the rotor, and means for damping vibrations of the subframe resulting from movement of the rotor comprising a body surrounding the member and having its center of mass substantially coincident with a line joining the centers of mass of the base and rotor, a plurality of elastic members having one end thereof coupled to the member and the other end free to vibrate, and flexible means coupling the free ends of the elastic members to the body.

2,614,411

MACHINE FOR ROUGHENING LEATHER AND PLASTIC MATERIALS

Eugène Toublanc, Nantes, France

Application May 9, 1951, Serial No. 225,427
In France May 12, 1950
10 Claims. (Cl. 69—1)



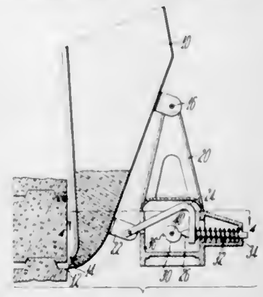
1. A roughening machine of the character described comprising a table for supporting the material to be roughened and having a narrow slot, a pair of spaced elongated roughening members having teeth projecting through said slot, means to impart to said members a longitudinal vibratory movement and means for feeding said material transversely of said members.

2,614,412

MECHANICAL POINTING DEVICE

William H. Dance, Cambridge, Mass., assignor to James O. Dance, Cambridge, Mass.

Application July 28, 1950, Serial No. 176,303
3 Claims. (Cl. 72—138)



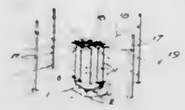
1. A portable pointing device comprising a frame, a hopper pivotally attached near its upper end to said frame, said hopper tapering to a spout at its lower end with a forwardly opening orifice at said lower end, a lip projecting forward from immediately below said orifice, and means connected to said spout for rapidly rocking said hopper in a front and rear direction, whereby said spout and lip will direct mortar approximately horizontally from said orifice and tamp the same in a mortar groove, said rocking means including a motor-driven shaft mounted on said frame, a cam having relatively high and low portions mounted on said shaft to rotate therewith, a link connected at one end to said spout and extending rearwardly therefrom, a cam follower carried by the other end of said link, and spring means resiliently pressing said cam follower against said cam.

2,614,413

CARGO TESTER WHICH SIMULATES SHIP'S MOTION

Henry G. Alley, Jr., Colonial Heights, Va.

Application July 1, 1947, Serial No. 758,459
5 Claims. (Cl. 73—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



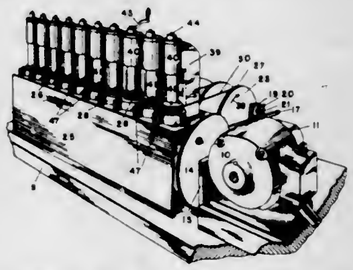
3. A testing device for cargo adapted to simulate the movements of a ship, comprising a dished base member, a cargo-supporting member mounted in the base member and provided with a rounded bottom having a radius of curvature smaller than the radius of curvature of the base member, and a slidable connection between the base member and cargo-supporting member.

2,614,414

MULTIPLE SPRING TESTER

Robert E. Schafer, Lancaster, and Marlin I. Kreider, Ephrata, Pa., assignors to Hamilton Watch Company, Lancaster, Pa.

Application November 24, 1950, Serial No. 197,368
4 Claims. (Cl. 73—91)



1. A multiple mainspring tester comprising a base, a platform mounted on said base, a plurality of chucks rotatably mounted on said platform for supporting and carrying the mainsprings to be tested, an arbor attached to the inner end of each mainspring, means engaging the arbors for an initial manual winding and a subsequent holding of said arbors, means connected to said chucks for alternately unwinding and winding said mainsprings, and means for recording the number of times each mainspring is wound and unwound.

2,614,415

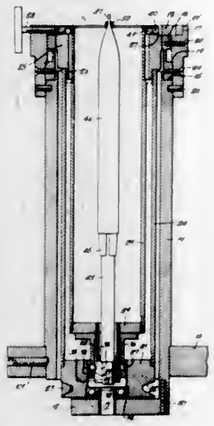
TESTING APPARATUS FOR THE MEASUREMENT OF THE INTERNAL PHYSICAL PROPERTIES OF SOLIDS

André Kepes, Saint-Mande, France, assignor to Societe Anonyme des Manufactures des Glases et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France

Application December 1, 1949, Serial No. 130,557
In France January 10, 1949
7 Claims. (Cl. 73—100)

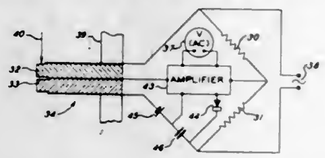
1. Testing apparatus including a vertical frame, a cylinder rotatably supported in said frame and having an upper face, a testing rod holder connected at the lower end to said cylinder and having universally adjustable engage-

ment with said face, a cap constructed and arranged to grip a test rod held by the holder,



and bearing means for connecting tensioning apparatus to said cap.

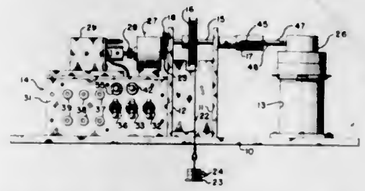
2,614,416
FORCE MEASURING SYSTEM EMPLOYING PIEZOCAPACITORS
Hans E. Hollmann, Oxnard, Calif., assignor to the United States of America as represented by the Secretary of the Navy
Application February 16, 1950, Serial No. 144,568
7 Claims. (Cl. 73—133)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A force measuring system comprising a bimorph including three electrodes, a pair of impedances connected in series and across the outer of said electrodes, measuring means connected between the middle of said electrodes and the junction of said impedances, a source of fluctuating voltage connected across said impedances in series, means for subjecting said bimorph to a bending moment, a source of direct bias voltage connected to apply an electrostatic bias field to said bimorph, a rectifier connected to said measuring means to derive a unidirectional voltage proportional to the bending of said bimorph, and circuit means connected between said rectifier and said bimorph to introduce a unidirectional feedback voltage across said bimorph.

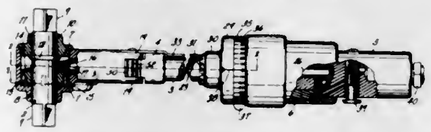
2,614,417
TORQUE MEASURING DEVICE
Sanford C. Cockrell, Washington, D. C., and Forrest F. Glasgow, Wilmington, Del.
Application October 20, 1949, Serial No. 122,562
7 Claims. (Cl. 73—137)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Apparatus for measuring and recording the torque required to rotate a rotatable object comprising a first battery, a constant field direct current motor having a shaft extend therefrom, a circuit for connecting said motor to said battery for operating said motor, an ammeter in said circuit and having a recording pen adapted to be moved from a null position variably in accordance with the value of current supplied to the motor as the motor operates, a second battery, a variable resistance connected in series with said second battery across said ammeter, said second battery being arranged to apply potential to the ammeter in opposition to the potential applied



thereto by said first battery whereby said recording pen is moved to said null position when the resistance is varied to bring said opposing potentials into equality, means detachably mounted on said shaft for applying torques of known value to said motor to calibrate said ammeter, and driving connections from said motor to said rotatable object for applying the torque of the object to the motor whereby the recording pen is moved away from said null position variably in accordance with the current supplied to the motor.

2,614,418
TORQUE WRENCH
Ernest H. Shaff, Spring Lake, Mich., assignor, by mesne assignments, to Keller Tool Company, Grand Haven, Mich., a corporation of Michigan
Application May 14, 1947, Serial No. 747,997
12 Claims. (Cl. 73—139)



1. In a combined torque and speed wrench, a chambered body member provided with a longitudinal bearing, a double ended spindle journaled transversely in said body member, a beveled gear provided with a ratchet disposed within the body member and fixed to said spindle, a manually retractable spring pressed pawl coacting with said ratchet to lock the spindle against rotation in one direction, a driven shaft disposed in said bearing and provided with a pinion coacting with said gear on said spindle, a handle comprising a shank pivotally mounted on said body at one end thereof and a motor housing constituting a handle grip, said shank having a longitudinal bore generally aligned with said driven shaft, a motor in said housing including a driving shaft extending into said longitudinal bore of said handle shank, an intermediate coupling shaft positioned in said longitudinal bore of said handle shank and having a longitudinally slidable driving engagement with said driving shaft, said intermediate and said driven shafts having coacting jaw clutch members provided with teeth conformed to permit slipping under overload, a thrust spring acting on said coupling shaft to yieldingly urge the said clutch members into driving engagement, a biasing spring between said body member and handle acting to urge them apart, means for limiting the

outward swinging movement of the handle on its pivot, an indicating member rotatably mounted on said handle and provided with a datum pointer and having axially extending teeth on its inner end, a relatively fixed rack member carried by said body member and coacting with said indicating member, a slip ring rotatably adjustable about said handle and having scale indicia thereon associated with the datum point of said indicating member, and means for controlling said motor positioned on said handle.

2,614,419
COMBINATION NUT RUNNING AND SETTING TOOL
Ernest H. Shaff, Spring Lake, Mich., assignor, by mesne assignments, to Keller Tool Company, Grand Haven, Mich., a corporation of Michigan
Application June 10, 1947, Serial No. 753,598
18 Claims. (Cl. 73—139)

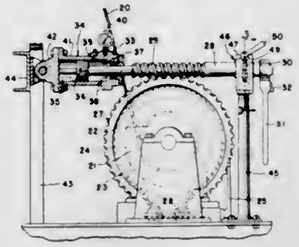


1. A tool comprising, in combination, a power unit including a motor having a drive shaft, a tool head connected with the power unit in spaced relation thereto and having a driven shaft journaled therein operatively connected to said drive shaft, a normally engaged connection between said driven shaft and said tool head whereby the head and driven shaft can be rotated together by application of lateral manual force to said power unit, and an element operatively associated with said connection actuated in response to the application of power to said motor for disengaging the connection.

11. A combined nut runner and torque wrench comprising, in combination, a power unit having a casing, a motor within said casing having a flexible drive shaft extending therefrom, a tool head, a resilient tube enclosing said drive shaft and connecting said tool head and said power unit in spaced relation, a driven shaft journaled in said head and geared to said drive shaft, a disengageable connection between said tool head and said driven shaft operative to permit rotation of said tool head and driven shaft by application of lateral manual force to said power unit, and indicator means including a first element rigid with said tool head and a second element supported on said casing, said indicator means being operative to measure the amount of relative displacement between said head and said casing and thereby indicate the amount of torque produced by application of said force.

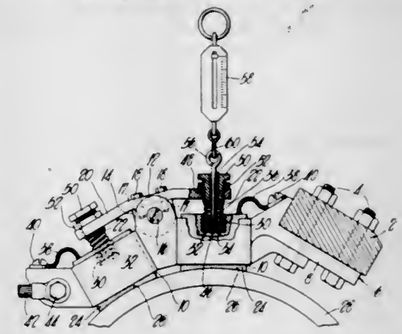
2,614,420
LOAD INDICATING DEVICE
Frank Miller, Orange, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application May 28, 1949, Serial No. 95,939
2 Claims. (Cl. 73—143)

1. In a load indicating device for drill hoists, a drum to receive a rope and to hold the rope in tension, a worm gear around the periphery of the drum, a shaft having a worm to engage the worm gear to control the rotation of the drum, a piston on one end of the shaft, a cylinder having fluid therein enclosing the piston said cylinder having one of its ends pivoted to allow the worm on the piston shaft to be dis-



engaged from the worm gear on the drum, and a measuring device for indicating the pressure on the fluid.

2,614,421
APPARATUS FOR MEASURING AND ADJUSTING THE SPRING PRESSURE ON COMMUTATOR BRUSHES
Martin Culkosky, Gary, Ind.
Application June 23, 1948, Serial No. 34,628
3 Claims. (Cl. 73—161)

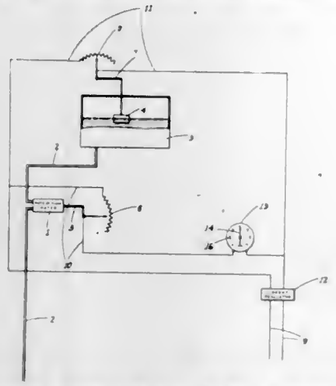


1. Measuring apparatus for use with a motor brush holder having a body member with a brush receiving opening therein, a brush in said opening, a brush arm attached to said body member and extending over said opening, a base bearing against said brush, said base having an axial threaded opening therein, said arm having a threaded opening therethrough in axial alignment with the first named axial opening, a bushing in said second named opening, said bushing having an axial opening therethrough, and a spring extending between said base and said bushing; which apparatus comprises a bolt extending through the bushing into the threaded opening in the base, and a tension indicating means fastened to the free end of said bolt.

2,614,422
FUEL DURATION METER
Viron E. Payne, Sun Valley, Calif.
Application January 6, 1949, Serial No. 69,494
2 Claims. (Cl. 73—198)

1. An instrument for indicating fuel duration for an engine fed from a tank having a quantity of fuel therein, comprising means responsive to the rate of flow of fuel feeding between the engine and tank, means responsive to the amount of fuel remaining in the tank, separate variable impedances mechanically linked to the means responsive to the rate of fuel flow and to the means responsive to the amount of fuel remaining in

the tank for actuation thereby, a separate circuit in which each impedance is interposed, said circuits being connected in parallel, means to supply a constant current to said parallel circuits, and a current meter interposed in one of



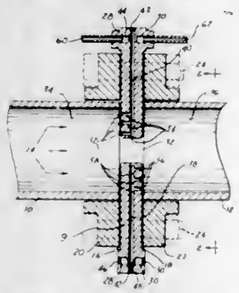
said circuits operative to reflect the division of current therebetween, said current meter being calibrated in terms of fuel duration; there being an input circuit connected to said parallel circuits, and said constant circuit supply means including a current regulator in the input circuit.

2,614,423

FLUID FLOW ORIFICE STRUCTURE

James H. Carbone, Baldwin, N. Y.

Application October 7, 1947, Serial No. 778,367
9 Claims. (Cl. 73—211)



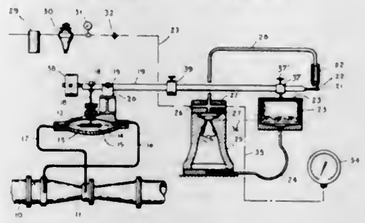
1. In a fluid flow orifice structure for arrangement in a conduit to measure the flow of fluid therein, a plate for insertion in the conduit across the flow area through which the fluid in the conduit passes, said plate having a central opening through which the fluid passes and a plurality of passages radially arranged about the center of the plate at spaced intervals, said plate having ports for measuring the impact pressure of the fluid flowing through the conduit, said impact pressure ports positioned in radial series one above the other in the flow area between the center of the said plate and the periphery thereof, said impact pressure ports assuming circumferentially spaced circular series of ports around the center of the said plate, each radial series of ports communicating with a radially disposed passage, said plate at the periphery thereof having an annular impact pressure channel, each radially disposed passage communicating with the annular impact pressure channel, said plate having a plurality of second passages radially arranged about the center of the plate at spaced intervals and equal in number to the number of first mentioned radially arranged passages, said plate having second ports for measuring the static pressure of the fluid flowing through the conduit and equal in number to the number of the impact pressure ports, said static pressure ports positioned in radial series one above the other in the flow area between the center of the said plate and the periphery thereof, said static pressure ports assuming spaced circular series of ports around the center of the said plate, each circular series of static pressure ports having a diameter equal to the diameter of a corresponding circular series of impact pressure ports, each radial series of second mentioned ports communicating with a radially disposed second mentioned passage, said plate having an annular static pressure channel, each radially disposed second mentioned passage communicating with the annular static pressure channel, said impact pressure ports and said static pressure ports being open on opposite sides of the plate, respectively, means for connecting the annular impact pressure channel to one side of a metering mechanism and second means for connecting the static pressure channel to the other side of the said metering mechanism.

2,614,424

PNEUMATIC APPARATUS FOR MEASURING FLUID PRESSURE

John C. Thoresen, Warwick, R. I., assignor to Builders Iron Foundry, Providence, R. I., a corporation of Rhode Island

Application September 1, 1945, Serial No. 614,042
5 Claims. (Cl. 73—213)



1. Apparatus for measuring a variable magnitude, said apparatus comprising a lever, means for applying to said lever a force variable with changes in said magnitude, a receptacle adapted to contain a quantity of liquid and supported pendently by said lever for applying the weight of said liquid to said lever in opposition to the first-mentioned force, a reservoir for a liquid, flexible liquid-conduit means connecting said reservoir with said receptacle, and pressure means comprising a conduit and a nozzle having an outlet port connected to said conduit, means movable with said lever in response to variations in said force for variably obstructing passage of fluid through said port, and means connecting said conduit with said reservoir to subject the liquid therein to varying pressures in response to movement of said obstructing means to thereby effect balancing of said lever through variation in the weight of liquid in said receptacle.

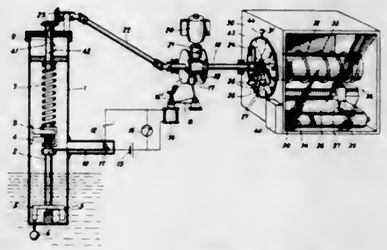
2,614,425

APPARATUS FOR VELOCITY MEASUREMENT OF A MOVING FLUID

Olaf Falk, Oslo, Norway, assignor to Alfred J. Amsler & Co., Schaffhausen, Switzerland, a limited partnership of Switzerland

Application May 9, 1947, Serial No. 747,046
In Norway February 27, 1943
2 Claims. (Cl. 73—228)

1. An apparatus for velocity measurement of a flowing fluid, comprising in combination, a tubular casing, a first shaft, a second shaft, and a coil spring, extending co-axially to one another in said casing in the longitudinal direction thereof, said first shaft being connected to said second shaft by said spring and being revolvably borne at its ends, an arm extending at a substantially right angle from said first shaft, a thrust body located outside of said casing and within the flowing fluid and being rigidly connected to said arm and adapted to impart a turning moment to said first shaft and to said spring, a source of rotary power connected with said second shaft, reversing means connected with said source for changing the direction of rotation thereof, actuating means controlled by said first shaft and connected with said reversing means for actuating same to rotate said second shaft counter to said turning moment to have said first shaft and said thrust body oscillating around an equilibrium position, and means



responsive to the rotation of said second shaft until said equilibrium position is reached, thereby indicating the velocity of the flowing fluid, said last mentioned means including a rotatable drum operatively connected to said second shaft and provided with a helicoidal guide, the pitch of which varies proportionally to the gauging curve of the apparatus, a scale member parallel with the axis of said drum, a slide on said scale member, engaged by said guide for displacement along said scale member away from a zero position corresponding to a zero velocity of the moving fluid by an amount proportional to the momentary velocity of the moving fluid, a sheet of paper, means for feeding the latter in a uniform movement through a record position located below said scale member, and a writing means carried by said slide, for recording the displacements of said slide onto that portion of said sheet of paper which is momentarily located in said recording position.

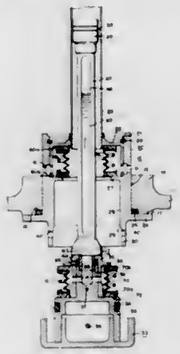
2,614,426

LIQUID LEVEL GAUGE

Thomas B. Darlington, Lansdowne, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application April 7, 1950, Serial No. 154,578
5 Claims. (Cl. 73—290)

2. A liquid level indicator assembly comprising casing structure having a bottom opening and carrying an upright tubular portion having a height in excess of the maximum level of liquid to be measured, said casing structure having a liquid inlet and an interior valve seat rib formed adjacent thereto, yieldable valve means mounted in said casing and biased into cooperative relation with said valve seat for normally closing said inlet, a removable plug member coaxially engageable in the bottom opening of said casing structure, a translucent gauge tube open at both ends and carried coaxially on said plug member for insertion in telescoping relation in said tubular portion, said plug member having a port communicating with the lower opening of said gauge tube and a valve seat collar adjacent said port, yieldable valve means carried by said plug member and biased into cooperative relation with said seat collar for normally closing said port when said plug member is separated from said



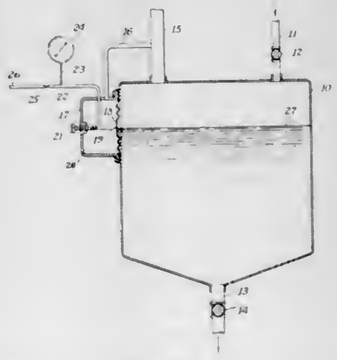
casing structure, the last-named valve means being engageable with said seat rib of the casing for opening said port when said plug member is axially assembled thereon, and said seat collar being at the same time engageable with the first-named valve means for opening said liquid inlet in the casing structure.

2,614,427

APPARATUS FOR INDICATING LIQUID LEVEL

Walker F. Hunter and Einar W. Jensen, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

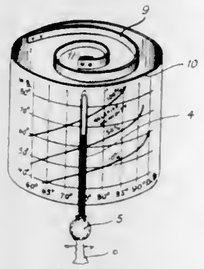
Application April 10, 1951, Serial No. 220,295
1 Claim. (Cl. 73—299)



Apparatus for measuring liquid level in a tank comprising in combination a tank containing liquid, the changing level of which is to be measured, an aperture in the side of the tank, a flexible diaphragm positioned over the aperture and adapted to contact the liquid over a certain vertical level range and to move inwardly and outwardly by variance in liquid pressure produced by changes in liquid level in the tank within said level range, a casing enclosing the opposite side of the diaphragm and forming a chamber therearound, a compressed air pipe having a nozzle extending into the chamber adapted to discharge air onto the approximate center point of the diaphragm, a restriction in the pipe

outside the chamber, a pressure gauge attached to the pipe adjacent the restriction and between the restriction and the nozzle adapted to measure the change in back pressure of the air flowing through the nozzle as the movement of the diaphragm varies the flow of air through the nozzle in direct ratio to the change in fluid level over said range, and means for venting gases in said chamber and tank to the atmosphere.

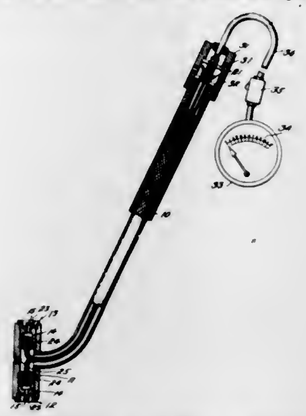
2,614,428
PSYCHROMETER
Rudolf Max Braun, New York, N. Y.
Application March 30, 1948, Serial No. 17,840
1 Claim. (Cl. 73—338)



An instrument for indicating the humidity of air comprising, (*a*), a casing including a compartment holding water and having a window-like opening located above the said compartment; (*b*), a cylindrical drum rotating around its axis inside the said casing and rotatingly supported, with said axis in a vertical position, on the said casing, a bi-metallic temperature-responsive element having one terminal rigidly attached to the said casing and the other terminal operatively attached to the said cylindrical drum to rotate said drum to a position corresponding to the prevailing temperature, and a chart on the surface of said drum showing lines parallel to the axis of the drum indicating loci of equal dry air temperature, and lines of equal relative air humidity as determined by calibration of the fully assembled instrument under known atmospheric conditions; and, (c), a liquid-filled capillary thermometer rigidly mounted on the said casing in a vertical position in front of, and with its capillary tube extending across, the said window-like opening of the casing, with the liquid meniscus in said capillary thermometer tube being juxtaposed to, and readable against, the said chart, and a wick covering the bulb of the said liquid-filled capillary thermometer and drawing water from the water-holding compartment included in the said casing.

2,614,429
GAUGE FOR INDICATING PRESSURE INCREASE CAUSED BY HEAT IN TIRES
Dolan H. Welsh and Eldon A. Means, Wichita, Kans.; said Means assignor to said Welsh
Application November 4, 1949, Serial No. 125,598
6 Claims. (Cl. 73—349)

1. A gage for indicating the pressure rise due to temperature increase in a tire, comprising an air chuck for engagement over a tire valve and arranged to effect sampling of the tire-contained air, said air chuck having a chamber arranged to receive the sample air taken from the tire, a thermocouple carried by said air chuck and having a hot junction in said chamber and positioned for contact by the sampled air extracted from the tire and a cold junction positioned for contact by atmospheric air, and an electric potential in-



strument connected with said thermocouple and calibrated in terms of thermal-pressure increase.

2,614,430
TEMPERATURE INDICATING DEVICE
Albert Edward Ballard, Carl W. Zuehlke, and Charles Francis Hitchcock Allen, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 1, 1950, Serial No. 141,754
5 Claims. (Cl. 73—358)

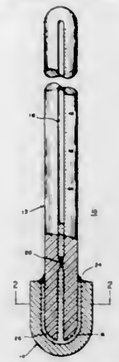


1. A temperature-indicating device comprising a porous, absorbent material, a plurality of isolated areas thereof contacting a chemical compound, the chemical compound on each of said areas having a different melting point, to provide a range of known melting point temperatures, a metail foil envelope enclosing said absorbent material and chemical compounds and having a plurality of apertures therein, the apertured portions being adjacent to the areas of the absorbent material contacting the chemical compounds but engaging the opposite side thereof, each of said chemicals when melted being adapted to penetrate the absorbent layer and to become visible through an adjacent aperture, thereby indicating if the device has been exposed to a temperature equal to the melting temperature of at least one of the chemical compounds.

2,614,431
MERCURIAL MINIMUM THERMOMETER
James M. Brady, West Long Branch, N. J.
Application November 5, 1951, Serial No. 254,968
3 Claims. (Cl. 73—371)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

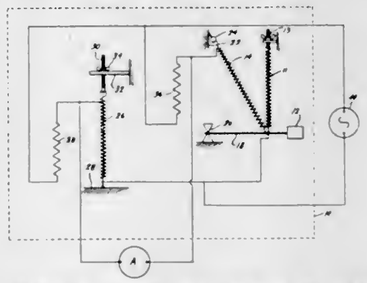
1. A fluid filled thermometer comprising a temperature calibrated stem having an axial bore therethrough, said bore having a constriction therein and being open at one end only, and a bulb consisting of a cup-shaped element in juxtaposition to said open end of said bore, the lip

of said cup-shaped element being completely sealed to the outer surface of said stem to form a passageway in communication with said bore, said passageway being bounded by the outer surface of said stem and the inner surface of said cup-shaped element, the outer diameter of said stem



D_s, the inner diameter of said cup-shaped element D_c and the coefficients of cubical expansion of the materials comprising said stem, said cup-shaped element and said fluid, e_s, e_c, and e_f respectively being such that the ratio $D_s/D_c > (e_c - e_f)/(e_s - e_f)$ and less than one.

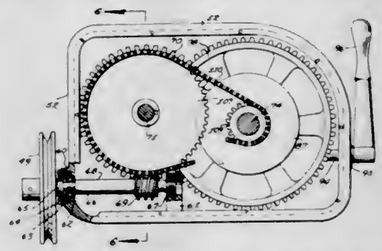
2,614,432
GRAVITY METER
Raymond T. Cloud, Houston, Tex., assignor to North American Geophysical Company, Houston, Tex., a corporation of Texas
Application March 5, 1947, Serial No. 732,494
21 Claims. (Cl. 73—382)



1. A gravity meter comprising a measuring mass, a main support spring supporting said mass, a reference spring substantially identical to said main support spring, adjustable means for varying the stress in the main support spring, a first electrical circuit including said main support spring as an impedance determining element thereof, a second electrical circuit including said reference spring as an impedance determining element thereof, and means for electrically comparing the effective impedance of said first and second circuits including an indicating meter having a predetermined deflection when the electrical impedance effect of said main support spring equals the electrical impedance effect of said reference spring.

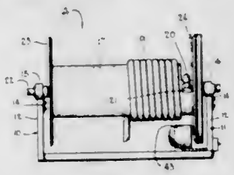
2,614,433
PORTABLE POWER UNIT
David E. Cuckler, Monticello, Iowa
Application April 28, 1950, Serial No. 158,673
2 Claims. (Cl. 74—16)

1. In a portable power unit a transmission comprising a housing, a first shaft journaled in said housing and projecting therefrom, a second shaft journaled in said housing and disposed substantially at right angles to said first shaft, a worm and gear drive between said first and second shafts, a pinion and a sprocket wheel secured on said second shaft for rotation therewith, a third shaft journaled in said housing substantially parallel to said second shaft and projecting at its ends from said housing, a gear wheel larger than the pinion on said second shaft rotatably mounted on said third shaft and meshing with



the pinion on said second shaft, a sprocket wheel smaller than the sprocket wheel on said second shaft rotatably mounted on said third shaft, a chain drivingly connecting the sprocket wheel on said second shaft with the sprocket wheel on said third shaft, clutch means mounted on said third shaft and selectively engageable with the gear wheel and sprocket wheel mounted on said third shaft to drivingly connect either said gear wheel or said sprocket wheel to said third shaft, and manually operative means connected to said clutch means and projecting from said housing.

2,614,434
HOSE REELING APPARATUS
Joseph P. Pavlak, South St. Paul, Minn.
Application February 28, 1947, Serial No. 731,532
5 Claims. (Cl. 74—230.11)

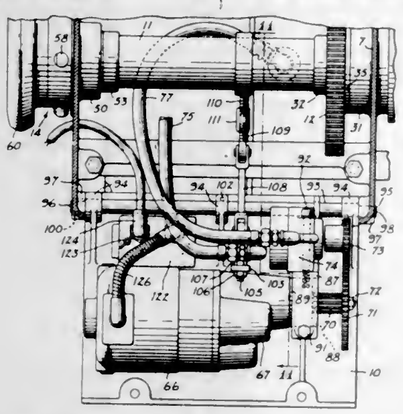


1. A pulley comprising a pair of semi-circular sections, means for connecting said sections together to form a circular structure with the ends abutting, a pair of semi-circular rings having a groove in the outer surface thereof, and means for connecting said rings to said sections with the ends of the rings abutting to form a circular ring structure, the abutting ends of the ring being angularly off-set from the abutting ends of the sections.

2,614,435
MACHINE TOOL
Anthony R. Chasar, Cleveland, Ohio, assignor to The Oster Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1949, Serial No. 99,371
5 Claims. (Cl. 74—405)

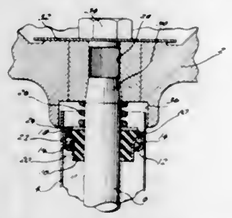
1. In a machine tool, a housing having upright front, rear and side walls, one of said side walls comprising a panel hinged to swing outwardly about a horizontal axis adjacent its bottom edge, means for releasably fastening said hinged panel

in upright closed position, means for supporting said hinged panel in horizontal open position, a spindle journaled in said front and rear walls and spaced from said hinged panel, a gear fixed to said spindle within the housing, and a driving unit detachably secured to the inner side of said hinged panel and movable with said panel, said



unit comprising a motor, a shaft driven by the motor and parallel to said spindle, a gear fixed to said shaft that moves into and out of mesh with the gear on said spindle when said hinged panel is moved to and from its closed position, said unit being laterally clear of the housing and accessible for removal when the said panel is in its horizontal position.

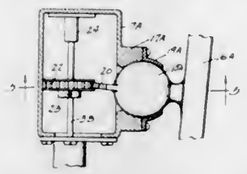
2,614,436
STEERING MECHANISM
Nils Erik Wahlberg, Chicago, Ill., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application March 29, 1946, Serial No. 658,104
5 Claims. (Cl. 74—490)



1. In a vehicle steering mechanism, a steering column, a steering shaft extending through said column, a resilient sleeve telescopically positioned around said shaft, a bearing means telescopically positioned around said sleeve and extending to the inner walls of said column, a hand wheel rigidly secured on one end of said shaft, and means interposed between said hand wheel and said sleeve for constantly urging said sleeve in one direction along the axis of said shaft.

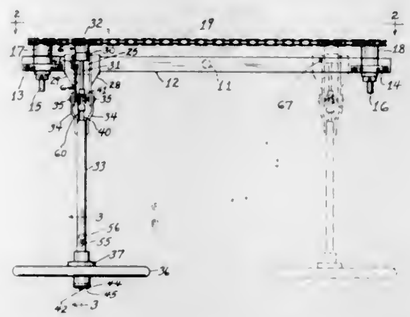
2,614,437
CONTROL MEANS FOR VEHICLE MIRRORS, FOG LIGHTS, AND THE LIKE
Harry E. Meggitt, Portland, Oreg.
Application May 10, 1950, Serial No. 161,229
1 Claim. (Cl. 74—501)

An article of the class described comprising in combination an accessory for a vehicle, a ball secured to said accessory, a housing adapted to be secured to the vehicle, a socket formed on said housing to receive said ball, a rotatably and slidably mounted flexible shaft having one of its ends extending into said housing, means operatively



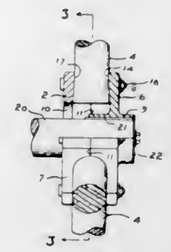
connecting said one end of said shaft with said ball, said means comprising a gear-rack formed on the ball, and a gear wheel attached to said shaft and engaged with said gear-rack for imparting universal movement to the ball and accessory upon sliding and rotating said shaft.

2,614,438
MULTIPLE POSITION CONTROL DEVICE FOR AIRCRAFT
Orion M. Garmon, Richmond, Va.
Application May 15, 1950, Serial No. 161,995
8 Claims. (Cl. 74—504)



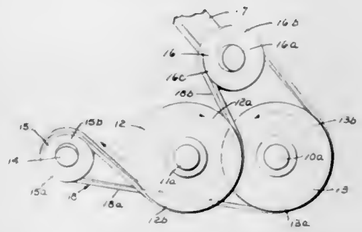
7. A multiple-position control device for aircraft comprising a transverse horizontal support member, a pair of spaced bearing elements secured on said support member, respective sprockets journalled on said bearing elements, a sprocket chain engaged with said sprockets, respective wing flap-operating elements connected to the ends of the chain, an additional bearing element slidably mounted on said transverse support member, a sprocket journalled on said additional bearing element and engaging said chain, a control shaft connected to said last-named sprocket, a sleeve connected to said additional bearing element, a plunger slidably mounted in said sleeve, said control shaft extending through said plunger, a handle element rotatably mounted on said sleeve, a projection on said shaft, an axially movable clutch element carried by said handle element and formed to interlock with said projection, spring means biasing said clutch element into engagement with said projection, said plunger being engageable with said clutch element, said support member being formed with a plurality of spaced openings, a movable detent element carried by said additional bearing element selectively engageable in said openings, spring means biasing said detent element into engagement with said support member, and means connecting said plunger to said movable detent element.

2,614,439
SHIP'S STEERING WHEEL HUB
James F. Lubzinski, Steveston, British Columbia, Canada
Application October 30, 1950, Serial No. 192,859
2 Claims. (Cl. 74—552)



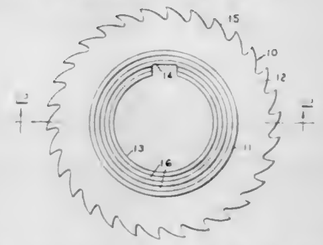
1. A hub for a ship's steering wheel having a rim and spokes connected thereto, said hub being divided transversely to form front and rear members, each of said members having complementary radially disposed frusto-conical recesses adapted to close upon mating inner ends of the spokes to retain said spokes against radially outward and swinging movement in the direction of rotation when said members are connected together.

2,614,440
BELT DRIVE FOR SMALL DIAMETER ADJACENT CYLINDERS
Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application June 26, 1951, Serial No. 233,633
4 Claims. (Cl. 74—722)



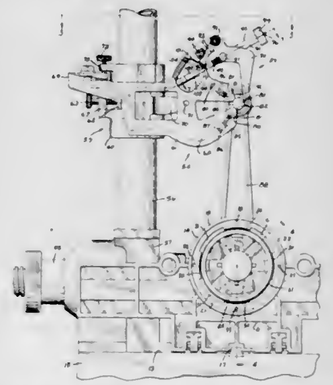
1. A driving arrangement for rotating a pair of adjacent shafts comprising a pair of driven pulleys respectively secured to the shafts in axially spaced relationship, a drive pulley, an idler pulley and a single belt trained over all of said pulleys, said drive pulley being disposed with its belt entering portion generally aligned with the belt departing portion of one of said driven pulleys and with its belt departing portion generally aligned with the belt entering portion of the other of said driven pulleys, said idler pulley being disposed relative to said driven pulleys to provide greater than 90° lap of said belt on each of said driven pulleys, and said idler pulley being inclined relative to said driven pulleys so that the belt entering portion of said idler pulley is substantially aligned with the belt departing portion of said other driven pulley and the belt departing portion of said idler pulley is substantially aligned with the belt entering portion of said one driven pulley.

2,614,441
CUTTER AND METHOD OF FORMING THE SAME
Emmons A. Goddard, Birmingham, Mich., assignor to Goddard & Goddard Company, Detroit, Mich., a corporation of Michigan
Application April 4, 1947, Serial No. 739,268
3 Claims. (Cl. 76—101)



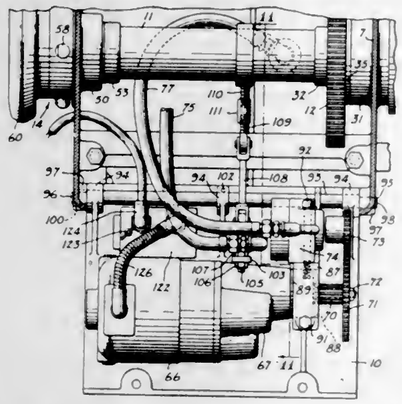
1. In a method of producing a heat treated metal cutter having contiguous hub and web portions, the web portion extending radially outwardly from the hub portion and being relatively thin as compared to the thickness of the hub portion, the steps of reducing the mass and increasing the surface area of the hub portion to an extent such that both said portions cool at the same rate from an elevated temperature, the mass of the hub portion being reduced and the surface area thereof being increased without changing the overall thickness of the hub portion, and thereafter subjecting the cutter to a heat treating process including a heating and cooling phase.

2,614,442
MACHINE FOR BORING CONNECTING RODS
Ewald A. Arp, Minneapolis, Minn., assignor to Tobin-Arp Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application September 13, 1950, Serial No. 184,636
16 Claims. (Cl. 77—62)



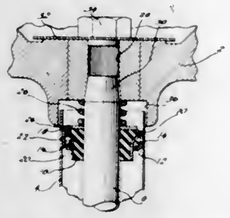
1. In a machine for centering and alining with respect to each other a connecting rod bearing to be rebored and a boring bar with appropriate tool for reboring said bearing, a frame, supporting units on said frame, and alined bearings on said supporting units, respectively, adapted selectively to removably receive a locating element or a boring bar for insertion through a bearing to be rebored of said connecting rod while situated between said supporting units, each of said bearings including a hollowed out cage having a longitudinally extending central passageway and radial slots disposed outwardly of and in con-

in upright closed position, means for supporting said hinged panel in horizontal open position, a spindle journaled in said front and rear walls and spaced from said hinged panel, a gear fixed to said spindle within the housing, and a driving unit detachably secured to the inner side of said hinged panel and movable with said panel, said



unit comprising a motor, a shaft driven by the motor and parallel to said spindle, a gear fixed to said shaft that moves into and out of mesh with the gear on said spindle when said hinged panel is moved to and from its closed position, said unit being laterally clear of the housing and accessible for removal when the said panel is in its horizontal position.

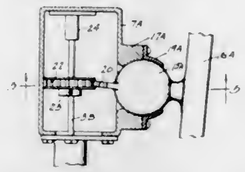
2,614,436
STEERING MECHANISM
Nils Erik Wahlberg, Chicago, Ill., assignor to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application March 29, 1946, Serial No. 658,104
5 Claims. (Cl. 74—490)



1. In a vehicle steering mechanism, a steering column, a steering shaft extending through said column, a resilient sleeve telescopically positioned around said shaft, a bearing means telescopically positioned around said sleeve and extending to the inner walls of said column, a hand wheel rigidly secured on one end of said shaft, and means interposed between said hand wheel and said sleeve for constantly urging said sleeve in one direction along the axis of said shaft.

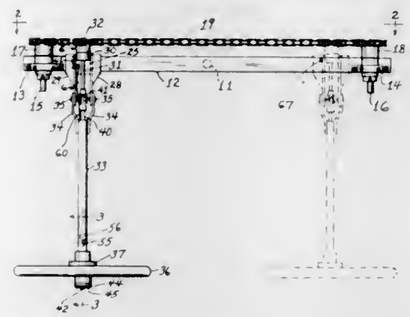
2,614,437
CONTROL MEANS FOR VEHICLE MIRRORS, FOG LIGHTS, AND THE LIKE
Harry E. Meggitt, Portland, Oreg.
Application May 10, 1950, Serial No. 161,229
1 Claim. (Cl. 74—501)

An article of the class described comprising in combination an accessory for a vehicle, a ball secured to said accessory, a housing adapted to be secured to the vehicle, a socket formed on said housing to receive said ball, a rotatably and slidably mounted flexible shaft having one of its ends extending into said housing, means operatively



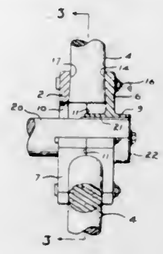
connecting said one end of said shaft with said ball, said means comprising a gear-rack formed on the ball, and a gear wheel attached to said shaft and engaged with said gear-rack for imparting universal movement to the ball and accessory upon sliding and rotating said shaft.

2,614,438
MULTIPLE POSITION CONTROL DEVICE FOR AIRCRAFT
Orion M. Garmon, Richmond, Va.
Application May 15, 1950, Serial No. 161,995
8 Claims. (Cl. 74—504)



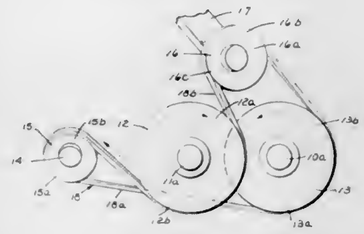
7. A multiple-position control device for aircraft comprising a transverse horizontal support member, a pair of spaced bearing elements secured on said support member, respective sprockets journalled on said bearing elements, a sprocket chain engaged with said sprockets, respective wing flap-operating elements connected to the ends of the chain, an additional bearing element slidably mounted on said transverse support member, a sprocket journalled on said additional bearing element and engaging said chain, a control shaft connected to said last-named sprocket, a sleeve connected to said additional bearing element, a plunger slidably mounted in said sleeve, said control shaft extending through said plunger, a handle element rotatably mounted on said sleeve, a projection on said shaft, an axially movable clutch element carried by said handle element and formed to interlock with said projection, spring means biasing said clutch element into engagement with said projection, said plunger being engageable with said clutch element, said support member being formed with a plurality of spaced openings, a movable detent element carried by said additional bearing element selectively engageable in said openings, spring means biasing said detent element into engagement with said support member, and means connecting said plunger to said movable detent element.

2,614,439
SHIP'S STEERING WHEEL HUB
James F. Lubzinski, Steveston, British Columbia, Canada
Application October 30, 1950, Serial No. 192,859
2 Claims. (Cl. 74—552)



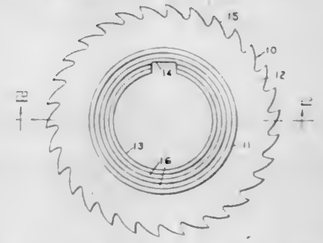
1. A hub for a ship's steering wheel having a rim and spokes connected thereto, said hub being divided transversely to form front and rear members, each of said members having complementary radially disposed frusto-conical recesses adapted to close upon mating inner ends of the spokes to retain said spokes against radially outward and swinging movement in the direction of rotation when said members are connected together.

2,614,440
BELT DRIVE FOR SMALL DIAMETER ADJACENT CYLINDERS
Clarence B. Richey, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Birmingham, Mich., a corporation of Delaware
Application June 26, 1951, Serial No. 233,633
4 Claims. (Cl. 74—722)



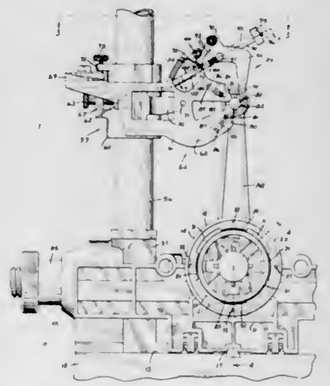
1. A driving arrangement for rotating a pair of adjacent shafts comprising a pair of driven pulleys respectively secured to the shafts in axially spaced relationship, a drive pulley, an idler pulley and a single belt trained over all of said pulleys, said drive pulley being disposed with its belt entering portion generally aligned with the belt departing portion of one of said driven pulleys and with its belt departing portion generally aligned with the belt entering portion of the other of said driven pulleys, said idler pulley being disposed relative to said driven pulleys to provide greater than 90° lap of said belt on each of said driven pulleys, and said idler pulley being inclined relative to said driven pulleys so that the belt entering portion of said idler pulley is substantially aligned with the belt departing portion of said other driven pulley and the belt departing portion of said idler pulley is substantially aligned with the belt entering portion of said one driven pulley.

2,614,441
CUTTER AND METHOD OF FORMING THE SAME
Emmons A. Goddard, Birmingham, Mich., assignor to Goddard & Goddard Company, Detroit, Mich., a corporation of Michigan
Application April 4, 1947, Serial No. 739,268
3 Claims. (Cl. 76—101)



1. In a method of producing a heat treated metal cutter having contiguous hub and web portions, the web portion extending radially outwardly from the hub portion and being relatively thin as compared to the thickness of the hub portion, the steps of reducing the mass and increasing the surface area of the hub portion to an extent such that both said portions cool at the same rate from an elevated temperature, the mass of the hub portion being reduced and the surface area thereof being increased without changing the overall thickness of the hub portion, and thereafter subjecting the cutter to a heat treating process including a heating and cooling phase.

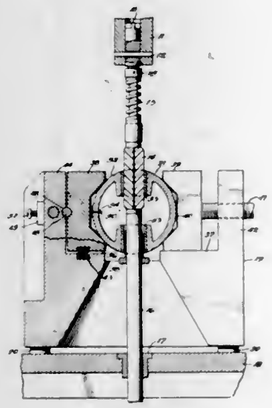
2,614,442
MACHINE FOR BORING CONNECTING RODS
Ewald A. Arp, Minneapolis, Minn., assignor to Tobin-Arp Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application September 13, 1950, Serial No. 184,636
16 Claims. (Cl. 77—62)



1. In a machine for centering and alining with respect to each other a connecting rod bearing to be rebored and a boring bar with appropriate tool for reboring said bearing, a frame, supporting units on said frame, and alined bearings on said supporting units, respectively, adapted selectively to removably receive a locating element or a boring bar for insertion through a bearing to be rebored of said connecting rod while situated between said supporting units, each of said bearings including a hollowed out cage having a longitudinally extending central passageway and radial slots disposed outwardly of and in con-

tiguous relation to said central passageway, circumferentially spaced bearing elements in said radial slots having interiorly facing bearing surfaces of part-cylindrical configuration disposed longitudinally of said cage and means for adjusting said bearing elements interiorly and exteriorly of said cage, there being clearance openings between the bearing elements of each of said bearings extending longitudinally through the corresponding cage in contiguous relation to its central passageway.

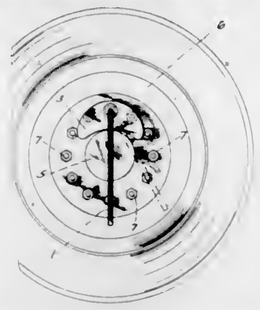
2,614,443
JIG FOR LINE REAMING AND BORING MACHINES
William H. Evans, Miami Beach, Fla.
Application December 13, 1950, Serial No. 200,555
6 Claims. (Cl. 77—63)



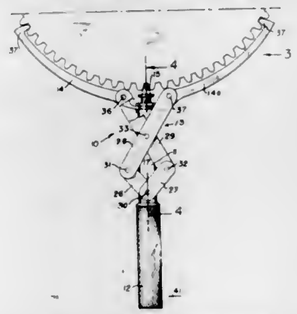
1. An improved jig adapted to increase the accuracy of the cut in reaming and boring machines which employ a long vertically suspended reamer, comprising a work holder having a vertical opening therethrough to receive said reamer, means for clamping the work piece in said work holder in alignment with said opening, and three pedestals for supporting said jig on a horizontal bed fastened to the bottom surface of said work holder in spaced-apart relation by means permitting limited movement of said pedestals in all directions parallel to said bottom surface, said pedestals including thrust bearings for supporting the weight of said jig and facilitating the radial movement thereof, whereby said jig can follow the amplitude movements of said reamer as it reams the work piece therein without tipping with respect to the surface supporting said pedestals.

2,614,444
WRENCH FOR TRUCK WHEEL NUTS
Jess C. Moore, Birmingham, Ala.
Application March 10, 1952, Serial No. 275,717
1 Claim. (Cl. 81—54)

A nut attaching and removing wrench of the character described comprising an L-shaped handle, said handle having a nut-fitting socket in one end thereof, a crescent-shaped fulcrum member, said fulcrum member adjacent its convex side having a hole therethrough of a size to allow said handle to be inserted therethrough, a concave side of said fulcrum member being placed against the hub of a wheel to thus provide a fulcrum for the portion of the handle adjacent said nut fitting socket.



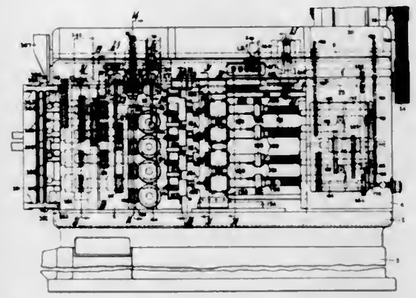
2,614,445
FLYWHEEL SPANNER WRENCH WITH TOOTH ENGAGING ABUTMENT
John A. Riordan, Denver, Colo., assignor to James T. Clark, Fort Morgan, Colo.
Application November 25, 1949, Serial No. 129,277
12 Claims. (Cl. 81—90)



1. A device for rotating flywheels of the type having a ring gear thereon, comprising; an elongated shank having a handle at one end and an abutment member at the other end adapted to be disposed between teeth of the gear, said abutment member being mounted to said shank for axial adjustment relative thereto and being resiliently urged outwardly away from said shank, a linkage system having pivot means disposed adjacent said other end of the shank constrained to move to various distances from the axis of the shank at opposite sides thereof and in the same perpendicular planes to said axis, resilient means connected between portions of the pivot means and urging said pivot means toward a position where the pivot means are closest to said shank, and a pair of oppositely extending arms having tooth engaging jaws at their outer ends, each arm being pivoted near its inner end to one of said pivot means.

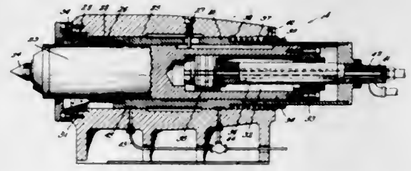
2,614,446
MULTIPLE SPINDLE LATHE
Carroll E. Miller, Windsor, Vt., assignor to Cone Automatic Machine Company Inc., Windsor, Vt., a corporation of Vermont
Application October 17, 1946, Serial No. 703,772
2 Claims. (Cl. 82—3)

1. A multiple spindle lathe comprising a plurality of parallel rotary work spindles arranged one above another with their axes in a plane, a frame in which said spindles are journaled, an even plurality of tool slides movable parallel to said spindles and having tools operating on work on certain of said spindles, double cam drums in number equal to one-half the number of tool slides mounted for rotation on axes parallel to said work spindles, two sets of cams spaced apart on said drums, a guide member, a pair of bars



slidably guided by said guide member for each of said cam drums, cam followers carried by each of the bars of each pair one in operative relation to one set of cams and the other in operative relation to the other set of cams of each double cam drum, connections from each of said bars to one of said tool slides, and means for rotating said cam drums.

2,614,447
TAILSTOCK
Edmund J. Lomazzo, Norwalk, Conn., assignor to Sparks Machine Tool Corporation, Norwalk, Conn., a corporation of Connecticut
Original application May 18, 1946, Serial No. 670,794. Divided and this application September 25, 1948, Serial No. 51,288
2 Claims. (Cl. 82—31)
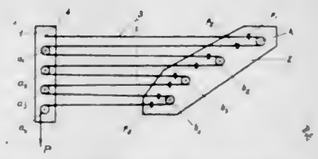


2. In a machine tool having work holding means including a tailstock frame provided with a movable tailstock spindle carrying a work engaging center and adjustable bearing means for the spindle; and hydraulic means included a piston connected to the bearing means operative in a cylinder in the spindle to move the center into engagement with the work with a predetermined pressure and thetreafter adjust the bearing means to take-up for wear between the bearing and spindle, said bearing means comprising a sleeve having a portion of reduced outer diameter forming a forward shoulder, a spring surrounding and supported by said portion and having one end abutting said shoulder, and an adjustable abutment comprising an annular member surrounding the sleeve and threaded to the tailstock frame and engaging the other end of the spring to vary the tension in said spring and said predetermined pressure, said adjustable abutment having a portion extending to the exterior of the tailstock whereby adjustments thereof can be made without dismantling the tailstock.

2,614,448
BRIDGES FOR STRINGED MUSICAL INSTRUMENTS
Mario Maccaferri, Rye, N. Y., assignor to French American Reeds Manufacturing Co., Inc., New York, N. Y., a corporation of New York
Original application May 15, 1950, Serial No. 149,741, now Patent No. 2,597,154, dated May 20, 1952. Divided and this application December 29, 1951, Serial No. 264,133
3 Claims. (Cl. 84—298)



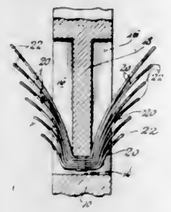
1. In a stringed musical instrument, in combination, a resonant, hollow body closed at one side thereof by a sounding board having a sound opening therethrough; a bridge member comprised by a hollow, rectangular structure on said sounding board located in position disposed transversely thereacross between said sound opening and the adjacent end of said body, said bridge member structure including front and rear walls, a top wall and opposite end closing walls, said top wall being formed with string receiving slots therethrough disposed transversely and spaced apart longitudinally thereof, said top wall slots terminating at their forward ends spaced inwardly from the forward edge of said front wall and at their rear ends extending through the rear edge of said top wall; said rear wall of said bridge structure being provided with slots therethrough aligned with and opening at their outer ends into said top wall slots; and said rear wall slots at their inner ends adjacent said sounding board being formed of a width greater than the width of the string receiving slots in said top wall.

2,614,449
STRING INSTRUMENT
Ferdinand Machálek, Blatno, Czechoslovakia
Application April 12, 1949, Serial No. 87,045
In Czechoslovakia April 12, 1948
6 Claims. (Cl. 84—312)



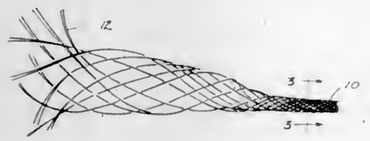
1. A string instrument, comprising in combination, a frame including two parts pivotally connected to each other; two sets of rollers arranged on said parts, respectively, opposite to each other, the distances between a roller of one of said sets and the opposite roller of the other one of said sets forming an increasing progression; a string having the ends thereof secured to one of said parts and forming a zig-zag line engaging alternately a roller of one of said sets and a roller of the other one of said sets so as to be subdivided into succeeding portions having increasing lengths; and means for exerting a force on said parts of said frame urging said parts asunder whereby the portions of said string are tensioned so as to produce frequencies in the ratio of the lengths of the portions of said string.

2,614,450
RAILWAY SPIKE
Howard R. Oltz and Herman J. Fanger, Los Gatos, Calif.
Application September 3, 1948, Serial No. 47,642
1 Claim. (Cl. 85—23)



The combination with a spike having a head, a rectangular elongated shank and a pointed end, of a plurality of nested spring fingers, the shank of said spike having an opening extending therethrough and a pair of shallow grooves formed in opposite sides of the same, the grooves being in communication with said opening, said nested fingers positioned in said opening with the points of said fingers normally extending upwardly and outwardly from the sides of said spike, said fingers being adapted when said spike is being driven into material to lie within the grooves on the sides of the shank, said fingers being generally V-shaped and having progressively increasing length.

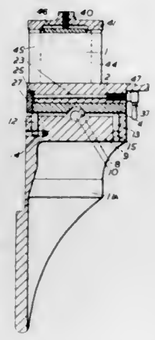
2,614,451
FISHING LINE
David Lippey, Glendale, Calif.
Application September 6, 1949, Serial No. 114,231
2 Claims. (Cl. 87—9)



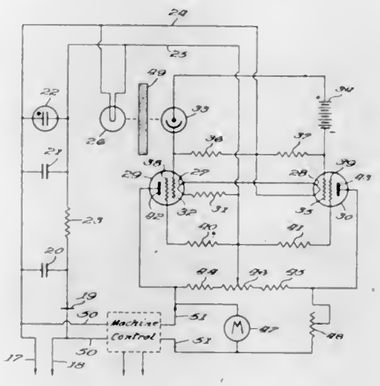
2. A fishing line comprising a coreless tubular structure composed of nylon monofilaments of circular cross-section braided in fours or multiples thereof.

2,614,452
LIGHT-DIVIDING SYSTEM
Jack Howard Coote, Teddington, and Gilbert Murray, Thames Ditton, England, assignors to British Tricolour Processes Limited, London, England, a British company
Application December 27, 1949, Serial No. 135,086
In Great Britain December 30, 1948
8 Claims. (Cl. 88—1)

2. Means for supporting a light dividing prism between two film gates mounted substantially at right angles to one another comprising a base plate, a rockable platform rockably mounted thereon on a transverse hinge, a pair of height adjustable pins, one mounted upon each side of said transverse hinge, a mounting plate slidable on said rockable platform in a dovetail mounting substantially at right angles to said transverse hinge, a rectilinear screw passing through said mounting plate and adapted to cooperate with a distance piece mounted upon said rockable platform for adjusting the position of said mounting plate relative to said rockable platform and positioning and clamping means for mounting a prism upon said mounting plate.

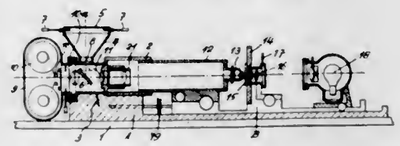


2,614,453
OPACITY SENSING DEVICE
George D. Macarthur, Glendale, Calif.
Application July 14, 1948, Serial No. 38,699
11 Claims. (Cl. 88—14)



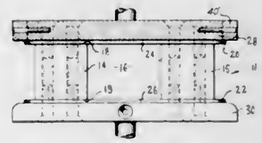
1. In an apparatus for determining the opacity of a paper or the like material from which a contact print is to be made, means affording connection of said apparatus with a source of electrical energy including a pair of leads, a lamp, a photocell positioned in close proximity to said lamp, a pair of screen grid tubes, means connecting the filaments of said tubes in series with each other across said leads, means connecting the screen grids of said tubes in parallel with one of said leads, means connecting the control grids of said tubes in series with the anode and cathode of said photocell and with a biasing battery interposed between one of said control grids and the cathode of said photocell and other leads interconnecting the plates of said tubes forming the output legs of an electrical bridge; and resistors of different values interposed in series between said source of energy and each of said screen grids, said resistors being effective to hold said bridge in substantial balance when light from said lamp to said cell is unobstructed.

2,614,454
PROCESS FOR RENDERING VISIBLE THE STEREOMETRICAL (SPATIAL) STRUCTURE OF OBJECTS, AND IN PARTICULAR FOR PREPARATIONS FOR HISTOLOGICAL INVESTIGATIONS
Carl Steffen, Vienna, Austria
Application June 5, 1948, Serial No. 31,364
In Austria June 10, 1947
2 Claims. (Cl. 88—16)



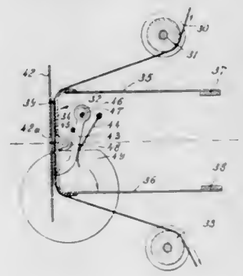
1. A method for preparation of a film representing the accurate centered course of the internal structure of an object to be examined for histological investigations, which consists in applying to said object before dividing indicating means for securing accurate centering, dividing the latter object together with the indicating means into successive individual sections in such a way, that each individual section representing a cross section of the internal structure of said object together with a cross section of said indicating means in the plane of division is suitable for microscopic investigation, and photographing said sections with their internal structure centered by the respective cross sectional portions of said indicating means in succession on the different frames of a motion picture film.

2,614,455
FILM GATE FOR PROJECTION APPARATUS
Richard M. Gile, Buffalo, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application September 7, 1951, Serial No. 245,620
5 Claims. (Cl. 88—17)



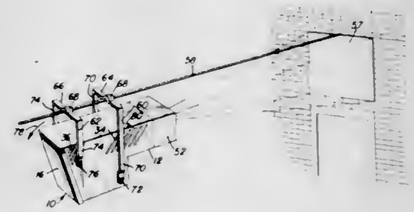
1. A projector film gate construction comprising a gate assembly and cover means carried thereby, said gate assembly comprising means for positioning said gate assembly in operative position upon a projector, or the like, and including a pair of spacing blocks disposed in spaced relation to each other so as to accommodate a projection aperture therebetween, said spacing blocks having accurately spaced abutment surfaces formed on opposite sides thereof, a pair of plate-like guide rails of accurately controlled thickness disposed in spaced substantially parallel relation at opposite sides of said spacing blocks so as to accommodate said projection aperture therebetween, a pair of side bars located outwardly of said guide rails and having side wall portions thereon for confining strip film of a predetermined size when located therebetween against any appreciable lateral displacement, and means for securing said side bars to said spacing blocks and for clamping said guide rails therebetween, said guide rails having accurately formed film-guiding surfaces of predetermined curvature thereon.

2,614,456
APPARATUS FOR ADVANCING FILM STEPWISE
Karl Gustav Zeuthen, Gentofte, near Copenhagen, Denmark
Application December 13, 1949, Serial No. 132,728
In Denmark December 14, 1948
7 Claims. (Cl. 88—18)



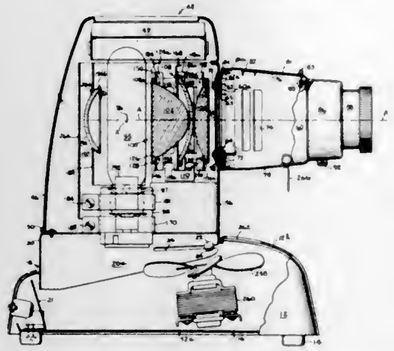
1. An apparatus for feeding film having perforations from a supply, which comprises a holder frictionally holding a length of the film and reciprocable in a direction generally lengthwise of said length of film to feed the film in the movement of the holder in one direction, means for reciprocating the holder with a feeding movement in x units of time and a return movement in $(n-1)x$ units of time, said reciprocating means including a cam having a pair of operating surfaces, one of which is $(n-1)$ times as long as the other, a detent entering a perforation in said length of the film to prevent its return movement with the holder, and guides directing the film to and from the holder, said guides being so positioned that the planes of the film, as it approaches and leaves the holder, make approximately equal angles α with normals to the direction of reciprocation of the holder, which pass through the points where the film first and last engages the holder, $\sin \alpha$ being approximately equal to $1/n$.

2,614,457
TRAFFIC SIGN PROJECTION DEVICE
Albert F. Weber, Linden, N. J.
Application July 27, 1950, Serial No. 176,193
2 Claims. (Cl. 88—24)



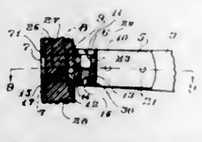
1. A projector of the character described comprising an elongated housing, image projecting means mounted longitudinally in said housing, and a pair of substantially U-shaped, relatively long and short hangers pivotally mounted on the housing at longitudinally and vertically spaced points for suspending same from a support, said hangers being swingable selectively over the top and one end of the housing for supporting same in a substantially horizontal and vertical position.

2,614,458
FILM PROJECTOR HOUSING CONSTRUCTION
David I. Critoph, Snyder, and John F. Herrmann, Cheektowaga, N. Y., and Fred H. Wolford, Albuquerque, N. Mex., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application October 23, 1948, Serial No. 56,222
14 Claims. (Cl. 88—26)



1. In a projector, a releasable substantially rectangular supporting member for carrying both a plurality of optical elements and housing means therefor and for enabling both the tilting of said elements and housing means to elevate or lower a projection beam and provide access within enclosed portions of the projector, said supporting member comprising an apertured upper wall, and frontal, rear and side walls depending therefrom and terminating to form a lower aperture, the depending side walls having a pair of slots extending preferably rearwardly from their frontal edges for rendering a portion of said side walls compressible, complementary boss and recess means for pivotally and releasably connecting the supporting member with a projector base within which said member is adapted to be pivoted, one of said complementary means being carried by side wall portions of the supporting member and communicating with the frontal portions of each of said slots, and hinge means mounted upon a rear surface portion of the supporting member enabling pivotal attachment of a housing element thereto, said compressible side wall portions cooperating with said boss and recess means to permit removal of the supporting member and elements carried thereby from the base, and thereby providing access within the supporting member, housing and base.

2,614,459
OPHTHALMIC MOUNTING
Eugene D. Ditto, Brookline, Mass., assignor, by mesne assignments, to Marine Optical Manufacturing Co., a corporation of Massachusetts
Application June 17, 1948, Serial No. 33,553
18 Claims. (Cl. 88—41)



1. An ophthalmic mounting comprising a split lens-holding flexible member having front and rear faces and the ends of which are of substantially the same length and provided with oppositely disposed connecting faces of substantially the said same length, a second member having front and rear faces, and a hinge pivotally connecting the members comprising three hinge members and a hinge pintle about which the hinge members are pivoted, two of the three hinge members being respectively mounted upon the rear faces only of the ends of the lens-holding member adjacent to the respective oppositely disposed connecting faces, the third hinge member being mounted upon the rear face of the second member, and the hinge pintle and the hinge members cooperating to hold the ends of the lens-holding member together with the oppositely disposed connecting faces in contact with each other and to hold the second member to the lens-holding member.

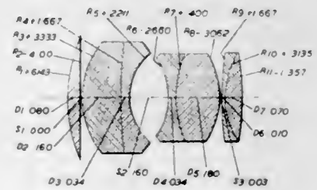
2,614,460
OPTICAL IMAGING SYSTEM
William W. Miller, Los Angeles, Calif., assignor to William Miller Corporation, Pasadena, Calif., a corporation of California
Application May 14, 1951, Serial No. 226,216
1 Claim. (Cl. 88—57)



An optical image forming system for imaging an elongated object at reduced scale, the reduction being greater transversely of the object than longitudinally thereof, said system comprising in combination means defining an incident beam of radiant energy diverging from the object and having an incident beam axis substantially normally bisecting the length of the object, a concave circularly cylindrical mirror transverse of the incident beam and producing therefrom a reflected beam having a reflected beam axis, the axis of curvature of the mirror substantially intersecting the incident beam axis at an oblique angle between the mirror and the object in a common plane substantially normal to the length of the object, whereby the reflected beam axis lies substantially in the said common plane and diverges from the incident beam axis at an oblique angle, a cylindrically curved lens transverse of the reflected beam axis in a transverse plane between the mirror and its said axis of curvature, the said oblique angle of beam divergence being sufficiently great that at the said transverse plane the incident and reflected beams are mutually spaced apart in non-overlapping relation, the lens being spaced transversely from the incident beam axis and lying wholly outside of the incident beam, the focal length of the lens being small compared to that of the mirror, and the cylindrical axis of curvature of the lens being substantially normal to that of the mirror and parallel to the length of the object, and image receiving means transverse of the reflected beam axis at a distance from the mirror greater than that of the lens and less than that of the mirror axis of curvature, the image receiving means and the object lying in respective conjugate focal planes with respect to the cylindrical mirror and also lying in respective conjugate focal planes with respect to the cylindrical lens, the said beam defining means for the incident beam including a diaphragm lying in a

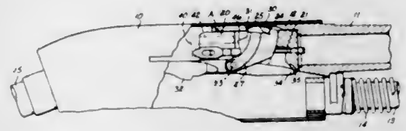
plane substantially normal to the incident beam axis at the axis of curvature of the mirror, and having two substantially parallel spacedly opposed beam defining edges extending longitudinally of, and oppositely spaced from, the axis of curvature of the mirror, the said diaphragm edges being separated by a distance that is small compared to the corresponding dimension of the mirror, whereby the respective points of the object are imaged by ray bundles of substantially equal cross section, each ray bundle lying substantially in an axial plane of the mirror.

2,614,461
FOUR COMPONENT OPTICAL OBJECTIVE
Arthur Warmisham, Leicester, England, assignor to Taylor, Taylor & Hobson Limited, Leicester, England, a British company
Application August 17, 1951, Serial No. 242,249
In Great Britain August 24, 1950
18 Claims. (Cl. 88—57)



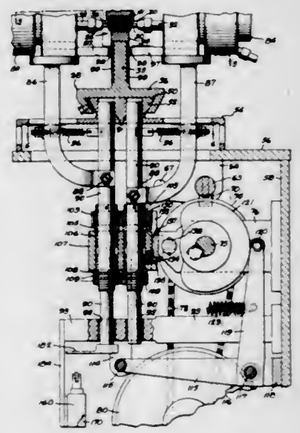
1. An optical objective corrected for spherical and chromatic aberrations, coma, astigmatism, field curvature and distortion, and comprising a diaphragm, two compound divergent meniscus components disposed one on each side of the diaphragm with their external faces concave thereto and each consisting of a convergent element and a divergent element, a simple convergent front component located in front of the divergent components, such front component and also the convergent elements of the two divergent components being made of crystalline fluorite, and a convergent rear component located behind the divergent components and in the form of a cemented doublet whose cemented surface is collective and convex towards the diaphragm, such rear component consisting of a divergent element made of a material having mean refractive index between 1.55 and 1.60 and a convergent element made of a material having means refractive index greater than 1.65 and at least .06 greater than that of the associated divergent element, the power of the collective cemented surface in the rear component lying between .3 and .4 times the equivalent power of the objective.

2,614,462
LATCH FOR PIVOTED LOCKING BOLTS FOR REPEATING FIREARMS
Val A. Browning, Ogden, Utah
Application April 10, 1948, Serial No. 20,261
5 Claims. (Cl. 89—164)



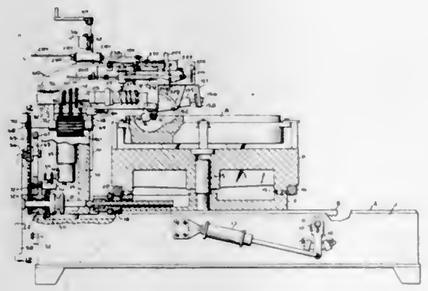
1. In a recoil-operated firearm, a receiver, a barrel mounted for reciprocation on the receiver, a breech block mounted for reciprocation on the receiver, a locking block movably carried by said breech block for movement into and out of locking engagement with said barrel, means for moving the locking block towards unlocked position upon recoil movement of the barrel, a latching member for holding the said locking block in unlocked position during forward movement of the breech block until the breech block has reached substantially its foremost position, means for stopping rearward movement of said latching member as the breech block approaches its rearmost limit of recoil whereby the latching member is brought into latched position with respect to said locking block, and means for stopping forward movement of said latching member as the breech block approaches its breech closing position whereby the locking block is unlatched.

2,614,463
GROOVING MACHINE
Elmer E. Barkstrom, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 23, 1950, Serial No. 151,473
9 Claims. (Cl. 90—13)



1. An apparatus for grooving handset handles comprising a holder for supporting said handle, means for reciprocating said holder through a rectilinear path, a pair of rotatable cutters disposed on opposite sides of a handle in said holder, drive means for rotating said cutters, a pair of elements mounted below said holder for oscillation about vertical axes and for vertical movement, a pair of brackets pivotally connected to said members for oscillatable and vertical movements with said elements and for pivotal movement about horizontal axes to support said cutters for movement toward and away from each other, spring means stressing said brackets and said cutters toward each other, cam followers on said brackets, cams on said holder engageable with said followers for moving said cutters away from each other, means connecting said elements for simultaneous rotary movement in opposite directions, means for raising and lowering said elements in timed relation to the movement of said holder, and means for oscillating said elements through a predetermined angle in timed relation to the movement of said holder.

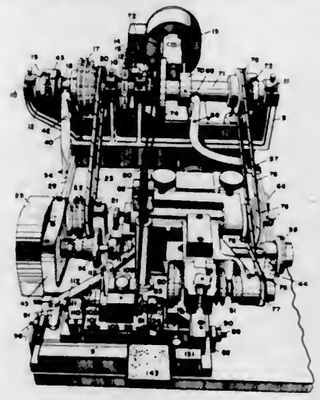
2,614,464
MOLD ENGRAVING MACHINE
Arthur H. Kiehl, Cuyahoga Falls, Ohio, assignor, by mesne assignments, to The Bridgewater Machine Tool Co., Akron, Ohio, a corporation of Ohio
Application April 21, 1948, Serial No. 22,277
2 Claims. (Cl. 90—13.7)



1. A tire mold engraving machine comprising the combination of a rotatable mold supporting table, means for rotating the table, a rotatable shaft, a template, a positive drive between said template and said shaft, said template carrying a pattern for the design to be cut in the mold, a movable cutting tool for the mold, a stylus in contact with the template and connections between the stylus and the cutting tool to move the latter to reproduce the pattern in the mold, an elongated single gear connected to and driven in unison with the rotation of the table, a plurality of gears of graduated sizes fixed to the rotatable shaft for driving the template, a shiftable shaft, and a set of idler gears fixed to said shiftable shaft in constant mesh with the single gear and shiftable along the gear while in mesh therewith to be brought into mesh with the plurality of gears selectively, the plurality of gears being provided with numbers of teeth which are multiples of a common denominator and are in alignment only at predetermined spaced points about the gears, whereby said idler gears may be shifted only at equal divisions of the complete cycles of the table and the rotatable shaft, the relation of the gears being such that the shift from the engaged gear to the next selected gear is substantially instantaneous while said idler gears are in said constant mesh to maintain constant alignment.

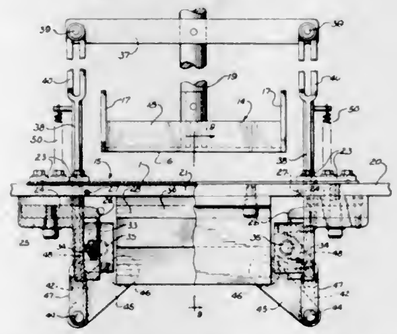
2,614,465
SEMI-AUTOMATIC PIVOT POLISHER
John E. Russell Markert, Lititz, and James Donald Smith, Lancaster, Pa., assignors to Hamilton Watch Company, Lancaster, Pa.
Application April 23, 1949, Serial No. 89,256
4 Claims. (Cl. 90—15)

1. A semiautomatic pivot polishing machine comprising a base, a motor mounted on said base and serving as a source of power mechanism driven by said motor, manually operated means for starting a cycle of operation, mechanical means controlled through said operation for stopping said cycle of operation, means for mounting a staff between dead centers, a pivot polishing wheel adapted to be brought into contact with the pivot of the staff, means controlled in the cycle of operation for simultaneously starting rotation of the staff and the polishing wheel, means for simultaneously stopping said staff and polishing wheel and means for automatically dis-



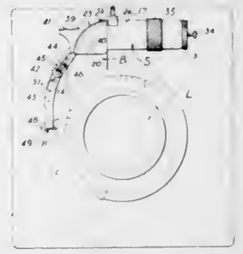
charging the staff upon the completion of the cycle of operation.

2,614,466
CONTAINER FORMING APPARATUS
Charles E. Palmer, Glenview, Ill., assignor, by mesne assignments, to Package Machinery Company, East Longmeadow, Mass., a corporation of Massachusetts
Application October 9, 1948, Serial No. 53,693
6 Claims. (Cl. 93—51)



1. Apparatus for folding into carton form, a blank having a bottom panel, two relatively angularly disposed pairs of side wall forming panels, and end extensions on the free edges of one of said pairs of wall panels, comprising a die structure, a reciprocally mounted mandrel, means for effecting reciprocation of said mandrel in operative relation to said die structure to thereby move said mandrel through said die structure to press said blank through the die structure, said mandrel and die structure having cooperating parts operative as an incident to the movement of the mandrel and blank through said die structure to fold the wall panels of the blank to angular, container wall forming relation to the bottom panel of the blank, movable folders in said die structure for engaging the outer faces of said wall extensions and folding the same inwardly over the inside of the respective walls from which they extend, and actuating mechanism for said folders, said actuating mechanism comprising a member movably mounted on said die structure, and means operatively connecting said part to said mandrel for actuation as an incident to retraction of said mandrel from said die structure.

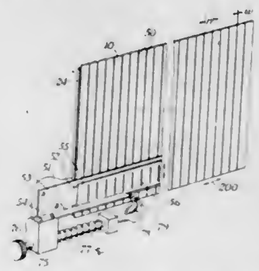
2,614,467
FLASH SYNCHRONIZER FOR CAMERAS
Charles Einar Johnson, George Haraden, and Robert F. McCammon, Denver, Colo., assignors to Heiland Research Corporation, Denver, Colo., a corporation of Colorado
Application May 12, 1948, Serial No. 26,694
3 Claims. (Cl. 95—11.5)



1. In a synchronizer structure of the class described to be mounted as a single unit on a camera lens board, a solenoid, a plunger therefor movable when the solenoid is energized, a casing means for the plunger, said casing means having a threaded bore at its rear end, a pivoted member pivotally mounted on the casing means and having a manually engageable projecting portion, means for operating the pivoted member by the plunger, connecting means from the pivoted member and a shutter-operating lever including adjusting means for varying the length of the connecting means, and adjustable stop means for the retracted position of the plunger to thereby vary the starting point of the plunger movement to operate the shutter, said stop means comprising a screw member on the casing means with a projecting port threaded in the casing bore and being adjustable from a fixed position rearwardly with respect to the solenoid, and an adjustable screw carried by the screw member with its inner end engageable by the plunger, said adjustable means for varying the length of the connecting means between the pivoted member and the camera shutter-operating lever permitting the adjustable stop means to be adjusted in a manner, when the solenoid is energized in taking flash exposures, that the screw member can be unscrewed rearwardly and so bodily place the adjusting screw that the pivoted member is permitted to have such greater swinging movement that the shutter-operating lever can be so operated manually by manual operation of the pivoted member that "time" and "bulb" exposures are possible without disconnecting the adjustable connecting means from the shutter-operating lever.

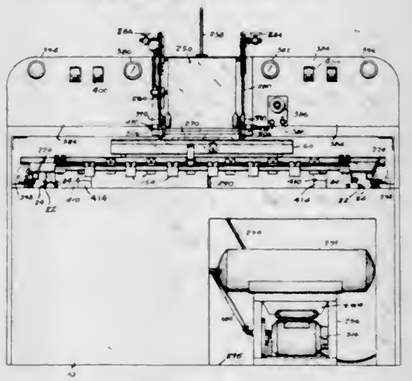
2,614,468
TIMING MECHANISM FOR MULTIPLE GRID CAMERAS
Walter C. Newcomb and Charles F. Fitter, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 1, 1950, Serial No. 147,108
8 Claims. (Cl. 95—18)

1. In a photographic camera for taking a plurality of different composite pictures in side-by-side relation on a single frame of light-sensitive material, each picture representing a different position of a moving subject the combination with a lens; means for locating a frame of light-sensitive material in the focal plane of said lens; a lined screen movably mounted in front of said focal plane in parallel relation thereto; said screen including a plurality of parallel spaced transparent lines extending transversely of the screen and each spaced from the other by a linear area opaque to the rays to which said frame is sensitive and which opaque areas are wider than said transparent lines by a multiple of the width of said transparent lines; means for driving said lined screen across said focal plane in a direction substantially at right angles to the lines thereof; of a timing mechanism located adjacent said screen near the margin of



said frame and cooperating with the transparent lines of said screen during movement of said screen to photographically record on said frame a series of spaced images representing multiples of that time required for the screen to move a distance equal to one transparent line width during a given interval, and including a shutter **55** located in parallel juxtaposition with said screen and having slits **56** equal in width to the transparent lines of said screen and spaced longitudinally in vernier relation with the lines of said screen.

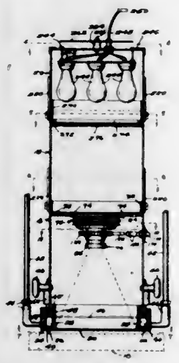
2,614,469
PHOTOPRINTING APPARATUS
Herman H. Hillmer and Henry P. Orent, Omaha, Nebr., assignors to Printing Engineers Incorporated, Omaha, Nebr., a corporation of Nebraska
Application February 3, 1949, Serial No. 74,323
4 Claims. (Cl. 95—73)



4. In a contact printing machine, the combination which comprises a mounting frame, a pair of spaced transversely disposed rails mounted in said frame, transversely disposed detent block supporting rods removably mounted in the frame, spaced from and positioned parallel to the said rails, a carriage including spaced parallel tracks longitudinally positioned in said frame and carried by transversely disposed plates mounted for longitudinal travel on said transversely disposed rails, spaced longitudinally disposed parallel detent block supporting rods

mounted in the frame and spaced from and parallel to one of said tracks, a bed plate mounted in the frame and positioned to travel longitudinally on said tracks, detent blocks with transversely positioned substantially V-shape slots in the upper surfaces adjustably mounted on the said transverse and longitudinally disposed detent block supporting rods, levers having locking dogs extended from the under surfaces pivotally mounted on the under surfaces of the bed plate and transversely disposed plates of the carriage, toggle acting levers extended from the pivotally mounted levers, and springs coacting with the toggle acting levers for retaining the levers over dead center for holding the dogs in the slots of the detent blocks and also for holding the levers with the dogs spaced from the detent blocks.

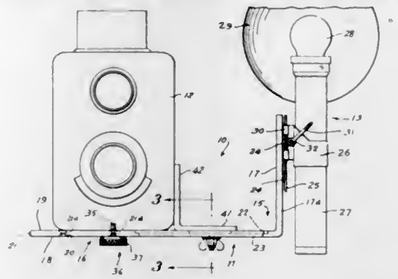
2,614,470
LAMPHOUSE FOR PRINTING APPARATUS
Herman H. Hillmer and Henry P. Orent, Omaha, Nebr., assignors to Printing Engineers Incorporated, Omaha, Nebr., a corporation of Nebraska
Application February 5, 1949, Serial No. 74,810
2 Claims. (Cl. 95—76)



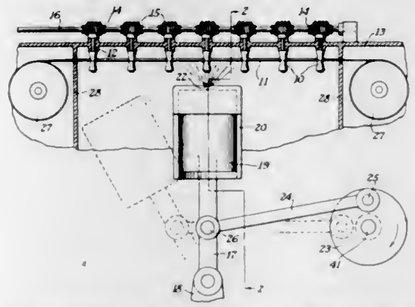
1. In a photographic printing machine, the combination which comprises an elongated hollow housing rectangular-shape in cross section and comprising three separable sections including an upper section, a center section, and a lower section, lamps mounted in the said upper section, a light diffusing plate mounted in the center section, a focusing lens mounting positioned in the upper part of the lower section, and a frame rectangular-shaped in plan having side and end sections mounted on the lower end of the lower section of the housing, the sections of the said frame being rectangular-shaped in cross section and having a continuous cavity extended longitudinally therethrough with continuous rows of spaced apertures extended from the faces of the sections to the cavity whereby suction in the cavity draws air inwardly in lines perpendicular to the face of the frame, the sections of said frame also having a continuous recess extended along the inner edges and positioned in the face of the frame so that film positioned against a plate in the recess is retained in position by suction applied to the four edges thereof.

2,614,471
CAMERA AND LAMP SUPPORTING DEVICE
Joseph Markowitz, New York, N. Y.
Application March 30, 1950, Serial No. 152,816
6 Claims. (Cl. 95—86)

1. In combination, an angle shaped member having a horizontal arm and a vertical arm extending upwardly therefrom, means to mount a camera on the horizontal arm, means to mount a flash gun on the vertical arm, said horizontal arm being formed with a longitudinal recess and with a longitudinal slot at the bottom of said recess, an angle shaped bracket having a horizontal arm mounted on said first mentioned horizontal arm, a boss extending from the horizontal arm of the bracket and slidably received within said recess, a screw threaded stem extending from the boss and passing through the slot, a nut screwed to said stem, and said angle shaped bracket comprising a vertical arm extending upwardly from the horizontal arm of said bracket and adapted to contact one side of a camera mounted on the horizontal arm of said member.

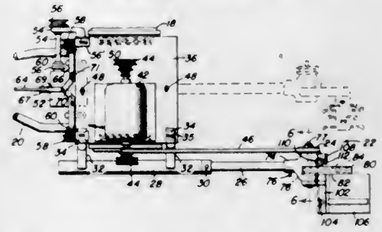


2,614,472
CENTRIFUGAL SPRAY PROCESSING APPARATUS FOR SENSITIZED MATERIALS
Benjamin E. Luboshez, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 28, 1949, Serial No. 135,365
9 Claims. (Cl. 95—94)



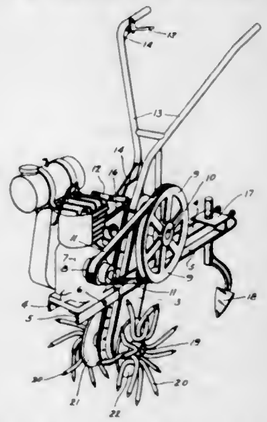
1. A processing apparatus for sensitized material comprising conveyor means for moving the material in a substantially linear path, said conveyor including a plurality of pairs of spaced rollers, each roller having a portion of reduced diameter for engaging an edge of said sensitized material and each pair of rollers being so spaced that the sensitized material passing therebetween is bowed transversely between the reduced portions, means for rotating the rollers to drive the sensitized material through the aparatus in a path defined by the rollers, a fluid container having a spray aperture therein, a mounting element for the container constrained to move in an arcuate path and adapted to support the container so that the spray aperture is at all times directed toward the surface of the sensitized material, a crank disc, connecting means between the disc and the mounting element, said connecting means being eccentrically pivoted to the crank disc whereby rotation of the latter will oscillate the connecting means to impart an arcuate motion to the mounting element and the container whereby fluid will be sprayed through the aperture by centrifugal force upon the sensitized material.

2,614,473
GARDEN TRACTOR WITH INTERCHANGEABLE POWER TOOL
Paul E. Yacoby, Seal Beach, Calif.
Application January 27, 1949, Serial No. 73,038
6 Claims. (Cl. 97—38)



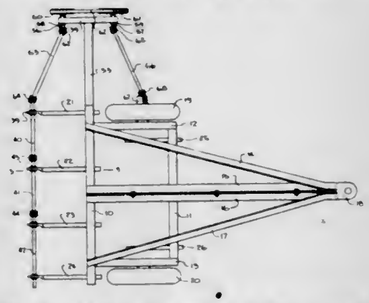
5. An implement comprising a frame having a pair of ground contacting wheels and a flat bed plate, a motor having a flat attachment plate, a rotary cultivator assembly having a drive pulley, and means for securing said cultivator on the frame selectively in any one of a plurality of positions, said attachment plate being likewise selectively secured to said bed plate in any one of a plurality of positions so that the pulley may be belt driven from said motor when the rotary cultivator assembly is in any one of the aforesaid selected positions, said rotary cultivator assembly having a shank, a shaft rotatably mounted on one end of the shank and carrying said drive pulley, a toothed ground contacting element rotatably mounted on the shank adjacent said pulley and operatively connected with said shaft, a ground contacting wheel carried by said end of the shank, said means for securing comprising a sleeve on said shank, spaced arms on said sleeve, and fastening means on said attachment plate for selectively engaging said arms.

2,614,474
WALKING CULTIVATOR
Clayton B. Merry, Alderwood Manor, Wash.
Application April 25, 1949, Serial No. 89,421
10 Claims. (Cl. 97—40)



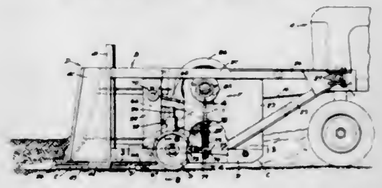
8. A walking cultivator comprising: a frame assembly providing a forwardly positioned motor mount, a rearwardly positioned hitch, a control handle extending rearwardly of the hitch, and a transversely-centered flat-sided drive housing located between and extending higher and lower than both the hitch and motor mount; laterally extending shafts journal-mounted in the upper and lower ends of the drive housing; a motor carried by the motor mount; means for transferring power from the motor to the upper said shaft; means in the drive housing for transferring power from the upper shaft to the lower shaft; axially-aligned tined earthworking wheels driven by the lower shaft at opposite sides of the drive housing and each adapted to perform both tractive and tilling functions; and brake tooth means depending from the hitch and adapted to be urged into the ground to various depths by downward pressure exerted on the control handle while the cultivator is being steered to create a variable braking force whereby the power to the wheels is selectively apportioned between the said tractive and tilling functions thereof; said wheels and brake tooth means being arranged to provide the entire ground-engaging support for the cultivator.

2,614,475
ROD WEEDER FOR CHISEL PLOWS
Harry L. Mowbray, Medford, Okla.
Application October 27, 1949, Serial No. 123,903
5 Claims. (Cl. 97—42)



1. The combination with a chisel plow which includes a wheel supported frame and laterally spaced ground engaging chisels mounted thereon for pivotal movement about transverse axes, of: normally transversely aligned bearings carried by the chisels; a spool carried by each bearing for rotational and transverse tilting movement therein; short rod sections supported in the bores of said spools; and flexible couplings connecting the adjacent ends of adjacent rod sections, and permitting rotation of the sections while slightly out of alignment.

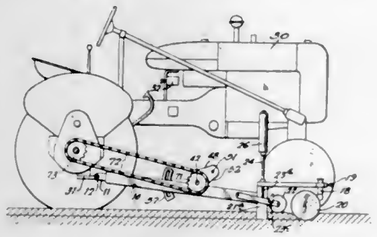
2,614,476
OBSTRUCTION RESPONSIVE ROOT CUTTING PLOW
Charles Wendell Jennings, Ballinger, Tex.
Application May 5, 1949, Serial No. 91,503
9 Claims. (Cl. 97—226.1)



1. In an obstruction cutting plow, a frame, a plow carried by the frame, automatically recipro-

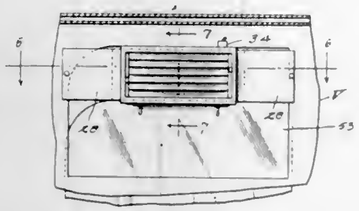
cable obstruction-feeler and obstruction-cutting means carried by the frame, and having obstruction-encountering parts extending outwardly of the plow, each of said parts comprising a reciprocating combined blade and feeler portion, and means to cause cutting operations by said combined blade and feeler portion only when the latter encounters an obstruction, including a rocker assembly operatively connected with said combined blade and feeler portion.

2,614,477
SOD CUTTER
August F. Habenicht, Tinley Park, Ill.
Application December 27, 1948, Serial No. 67,354
6 Claims. (Cl. 97—226)



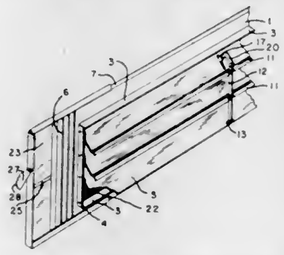
1. A sod cutter adapted for mounting under a tractor, comprising in combination a frame, a pair of coulters mounted thereon, a horizontal cutting knife carried by the frame behind the coulters operative to cut the sod at a predetermined thickness, a first shaft mounted transversely on the frame, a pair of projecting arms rigidly affixed thereto, each having a bearing at its open end, a second shaft journaled in said bearings, a transversely-disposed cutting knife carried by the second shaft, means coupling the first shaft and the second shaft operative to maintain the knife on the second shaft at a substantially constant angle relative to the earth during rotation of the first shaft, and means coupling the first shaft to the tractor operative to rotate the first shaft as the sod cutter is advanced.

2,614,478
AIR CONDITIONING MEANS FOR MOTOR VEHICLES
James H. Herman, Jr., Austin, Tex., assignor of one-fourth to Carl Thornquist, Austin, Tex.
Application September 29, 1949, Serial No. 118,541
1 Claim. (Cl. 98—2)



An air conditioner for vehicles comprising a stationary air cooling unit, an air conducting pipe extending from said unit, an upright hollow post, a vertical pipe within said post connected to said first pipe, a flexible tubular member connected at one end to said vertical pipe, a rectangular exhaust housing including rear walls, and slotted side walls, said rear walls having an opening therein, and a flange around said opening connected to the other end of said flexible member, said housing including an open front forming an outlet, and louvres across the outlet, a pair of closure plates extending transversely of said outlet and slidably extended through the slots in said side wall housing, said closure plates when in extended position opening said outlet and forming laterally projecting extensions of said housing whereby to cooperate with said housing in closing a vehicle window opening, and means carried by said post for supporting the said housing when the latter is disengaged from a vehicle window.

2,614,479
WINDOW VENTILATOR
Ernest A. Johnson, Duluth, Minn.
Application April 21, 1950, Serial No. 157,385
1 Claim. (Cl. 98—99.8)

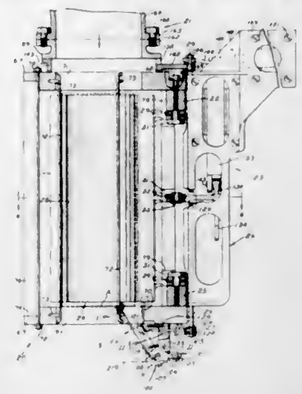


A ventilator for a window opening comprising a substantially rectangular body member having a relatively large ventilating opening therethrough, a screen over said opening, a plurality of louvers pivotally carried on said body member and being adapted to cover said opening when in closed position, a shaft pivotally connected to each of said louvers for operating all of same simultaneously, and an operating rod for controlling the pivotal position of said louvers, said rod having a stem portion, an end portion, and a joining portion extending between and at substantially right angles to said stem and end portions forming a substantially J-shape, said end portion being pivotally connected to said shaft, said screen having a slot therethrough in alinement with said shaft, said stem portion being carried through said slot to extend on the opposite side of said screen from said shaft, and said joining portion being of a length equal to the distance between said shaft and the opposite side of said screen when said louvers are in closed position whereby said louvers may be locked in closed position by pivoting said rod inwardly until said stem and end portions lie substantially parallel with said shaft.

2,614,480
PACKAGED ARTICLE COOKER
Geoffrey D. Elmer, Dearborn, Mich.
Application March 27, 1947, Serial No. 737,651
9 Claims. (Cl. 99—327)

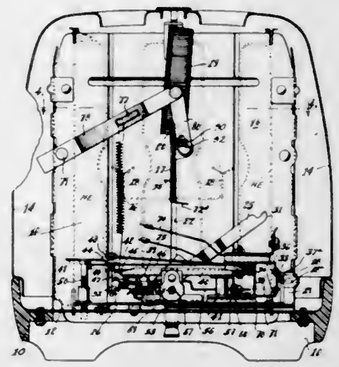
1. An electric heater for use in a vending machine for dispensing individually cooked articles comprising a supporting frame; a pair of opposed heating plates shaped to conform to the shape of the article to be dispensed and mounted on said frame for movement toward and away from each other whereby said article may be successively gripped for cooking and then released; thermal insulating means spaced from and normally surrounding said plates to provide an enclosed space to be heated, said insulating means having article

entrance and exit openings; closure means normally closing said entrance opening to prevent heat from escaping from said space through said opening; means for heating said plates; and control means for operating said closure means



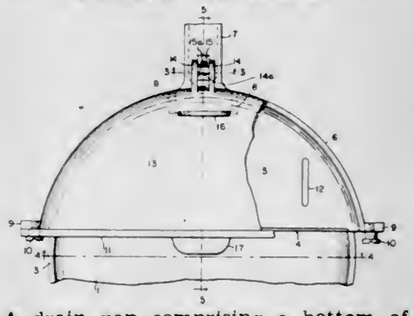
to admit an article to be cooked and to move said heating plates toward and away from each other to successively grip and cook said article then release the cooked article whereupon it passes through said exit opening to the consumer.

2,614,481
TIMER FOR TOASTERS AND THE LIKE
Alfred J. Huck and Charles D. Visos, St. Louis, Mo., assignors to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application October 12, 1948, Serial No. 54,142
7 Claims. (Cl. 99—329)



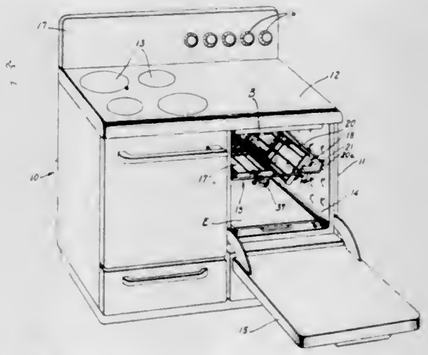
1. In a thermal control for a toaster having a heating element and a bread carrier movable to a position for operating the toaster, a main switch closed by said last element for energizing said heating element, a latch for said bread carrier and said main switch, said thermal control comprising a thermal heater and a thermal latch releasing element in circuit with said heating element, a thermal element affected by the heat from said thermal heater, a series of four contacts, two connected between said thermal heater and one side of said thermal latch releasing element, the third one to the other side of said thermal latch releasing element and the fourth one to the other side of said thermal heater, said thermal element being movable from a cold-start position through a cool-off point where it closes said first and third contacts to a heat-up point where it opens said second and third contacts and closes said second and fourth contacts, said thermal element as it cools down after said thermal heater is deenergized by closure of said second and fourth contacts, opening said first and third contacts at said cool-off point, and adjusting means rotatable for adjusting for toast color by changing the position of the heat-up point, said adjusting means being adapted to be pulled outwardly for holding said bread carrier against rising above a position where it just opens the main switch thereby to keep the toast warm.

2,614,482
DRAIN PAN ATTACHMENT FOR COOKING VESSELS
William H. Lonskey, Sr., Detroit, Mich.; William H. Lonskey, Jr., administrator of said William H. Lonskey, Sr., deceased
Application November 20, 1950, Serial No. 196,602
6 Claims. (Cl. 99—355)



1. A drain pan comprising a bottom of approximately segmental form having intersecting inner and outer margins, the outer margin being substantially arcuate, a wall upstanding from said arcuate margin, a handle projecting from the mid portion of such wall, a pair of ribs on the ends of said wall projecting outwardly from the wall, and a closure plate detachably mounted on said ribs and extending along and above the inner margin and having clearance from the bottom for drainage purposes.

2,614,483
TOASTING OR BROILING RACK
Donald W. Scofield, Detroit, Mich., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application June 10, 1950, Serial No. 167,347
2 Claims. (Cl. 99—393)



1. Food toasting or broiling apparatus comprising, in combination, a toasting or broiling com-

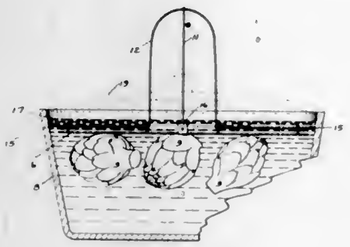
partment including a forwardly disposed access opening and a source of heat, an elongated generally rectangular cage having shaft means extending from opposite end portions thereof, said cage being configured to receive food to be toasted or broiled and having an opening in one side thereof through which the food may be introduced within and removed from said cage, the opening in said cage being disposed in substantial adjacency to said compartment access opening, means including support structure carried by wall portions of said compartment and having seating means cooperable with said shaft means removably to mount said cage within said compartment with freedom for rotative movements about said shaft means between a position in which one side of said cage confronts said heat source and said cage opening is upwardly presented, and a position in which the other side thereof confronts said heat source and said cage opening is downwardly presented, and ejector means disposed within said cage and engageable with food therein to provide for removal of the food from the cage without removing the cage from said compartment, said ejector means being movable to bring the food into registry with said cage opening whereby, when said cage opening is downwardly presented, gravitational force acting upon the food is effective to cause it to drop through said cage opening into position to be removed through said access opening.

2,614,484

RETAINER FOR VEGETABLES AND LIKE PRODUCTS WHILE COOKING THE SAME

Philip A. Caruso, San Carlos, Calif., assignor of one-half to Daniel Snow, South San Francisco, Calif.

Application January 9, 1950, Serial No. 137,550
1 Claim. (Cl. 99—403)



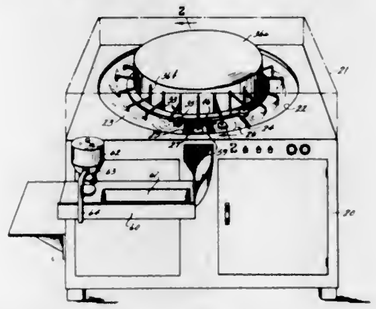
A device for retaining vegetables and the like submerged in a cooking vessel during the boiling of the products, comprising a perforated plate adapted to be positioned within the vessel and above the boiling products, a pair of upwardly extending spring metal handle members providing a hand hold for said plate, a pair of integrally formed horizontal arms provided on said handle members, one of said handle members having a central depression for receiving and for retaining therein the medial portion of the other of said handle members, the said handle members and arms being connected to said plate, the latter connecting means comprising upwardly extending apertured ears provided on said plate for guiding the arms into an extensible and retractible position relative to said plate, the extremities of said arms adapted to lock and unlock said plate relative to the inner periphery of the cooking vessel.

2,614,485

APPARATUS FOR COOKING ARTICLES OF FOOD IN DEEP GREASE

Joseph C. Sinkwitz and Roman Szpur, Dayton, Ohio, assignors, by direct and mesne assignments, to William F. Chapel, Dayton, Ohio

Application April 23, 1947, Serial No. 743,338
4 Claims. (Cl. 99—404)



1. A cooking apparatus comprising a substantially annular cooking vessel to contain a heated cooking liquid, a rotatable member adjacent the axis of said cooking vessel, means for rotating said member, an elongate member having an inner part pivotally connected with and rotatable with said rotatable member, a block carried by said part, and an outer part rotatably mounted in said block, a mold carried by said outer part of said elongate member, cam means for actuating said elongate member to cause said mold to move into said cooking vessel, through the liquid in said cooking vessel and then out of said cooking vessel, a stationary toothed rack adjacent the point at which said mold is moved out of said cooking vessel, a gear on said block arranged to engage and to be rotated by said rack, a second gear secured to said outer part of said elongate member and meshing with the first mentioned gear to tilt said mold to draining position, said second gear having a peripheral portion without teeth to permit the same to rotate with relation to said first mentioned gear and thereby release the tilted mold for return to its normal position.

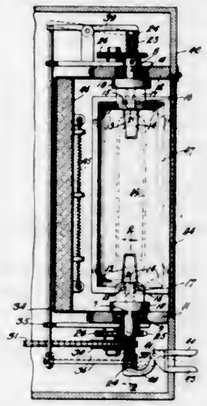
2,614,486

ROTARY VERTICAL BROILER FOR FRANKFURTERS OR SIMILAR ARTICLES

William Z. Horvat, Hollis, and Bernard R. Glass, Forest Hills, N. Y.

Application April 12, 1950, Serial No. 155,492
1 Claim. (Cl. 99—421)

A rotary broiler comprising a heater, tubular spindles journaled in separated, aligned relation in front of said heater, tubular heads on the inner, opposing ends of said tubular spindles, racks longitudinally slidable in and extending through said rotary spindles and heads and provided with stems projecting beyond the outer ends of the spindles, rock shafts journaled on said heads at opposite sides of said racks and having pinions engaged by said racks, food holding forks projecting from said rock shafts and having angularly extending tines at the free ends of the same cooperable to hold the end of a frankfurter therebetween, gears on the outer ends of said rotary spindles, drive means engaging said gears for rotating the spindles in unison, collars on the outer ends of the rack stems, springs engaged between said collars and said gears for tensioning the rack stems outwardly whereby to cause the racks to yieldingly hold the rotatably supported forks in closed relation with the tines approached for gripping a frankfurter therebetween and manually operable means for simul-



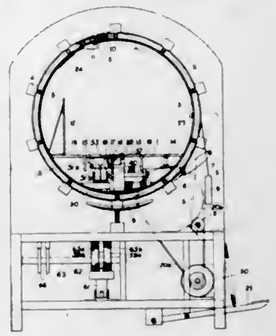
taneously thrusting the rack stems inwardly against the tension of said springs for simultaneously opening the companion forks.

2,614,487

PACKAGE BINDING MACHINE

John James Cheesman, Gerrards Cross, England, assignor, by mesne assignments, to General Strapping Corporation, New York, N. Y., a corporation of New York

Application October 29, 1946, Serial No. 706,445
In Great Britain November 26, 1945
17 Claims. (Cl. 100—27)



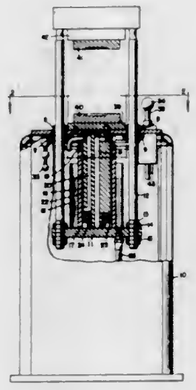
1. A machine for binding an article comprising, means rotatable about the article for training a strip in a binding plane around the article to be bound, means for severing the strip after it has been trained around the article, means for connecting the ends of the severed strip, means permanently positioned at the near side of the connecting means for holding the strip as it is being trained around the article, means for moving said holding means toward said connecting means for tensioning the strip around the article, means positioned at the far side of the connecting means adapted to grip the strip after it has been trained around the article and before said holding and tensioning means is moved to tension the strip, auxiliary means positioned intermediate said connecting means and said holding and tensioning means and adapted to grip the strip before the connecting means is operated, and means adapted to operate said severing means after said auxiliary means is operated and before the connecting means is operated.

2,614,488

HYDRAULIC PRESS

Howard M. Purcell, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del., a corporation of Delaware

Application April 7, 1947, Serial No. 739,917
3 Claims. (Cl. 100—269)



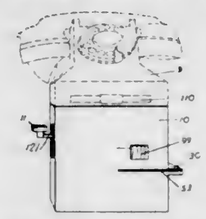
2. In a hydraulic press, a stationary horizontal platen, a double acting ram connected with and extending downwardly from said stationary platen, a cylinder receiving said ram and forming therewith an upper pressure chamber and a lower pressure chamber having a pressure-responsive face larger than that of said upper pressure chamber, a platform carried at the lower end of said cylinder, a movable platen positioned above said stationary platen, strain rod means connecting said movable platen and said platform, a reservoir surrounding said cylinder and mounted on said platform and opening upwardly to receive fluid leakage from said cylinder, and valve means connected with said upper pressure chamber and movable selectively to entrap fluid therein for stationarily supporting said movable platen above said stationary platen or to exhaust fluid therefrom for permitting the descent by gravity of said movable platen, said valve means being adjustable to control the rate of descent of said movable platen.

2,614,489

REMOTE-CONTROL RECORDING MECHANISM

Frank Reginald Saxby, Eastcote, England, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

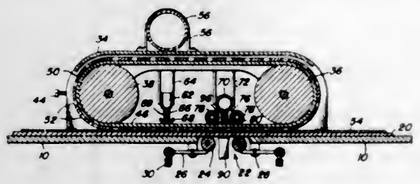
Application August 25, 1948, Serial No. 46,128
In Great Britain September 3, 1947
8 Claims. (Cl. 101—95)



1. In a remotely controlled recording device for marking on record material, the combination of

recording means to make suitable marks on the record material; operating means for the recording means including a motor in the device adapted to be energized to supply the sole source of operating power in a recording operation and a recording means operating member connected to the motor and displaced from normal position when the motor is energized; means at the device to energize the motor preparatory to each recording operation and to displace the member from normal position; means to retain the member in its displaced position and thereby retain the motor in its energized state; an electromagnet cooperable with the retaining means and operable, when energized, to operate said retaining means to release the member to allow the member to be driven to home position by the motor to cause an operation of the recording means; a circuit extending to the magnet from a remote control point to enable the magnet to be energized and operate the retaining means to allow the motor to drive the member to cause a recording operation, whereby all the power for operating the recording means is stored in the device and only sufficient power to release the retaining means need be supplied from the remote control point; blocking means retained in normal unblocking position by the retaining means until the retaining means is operated by the electromagnet; means for moving the blocking means to blocking position relative to the retaining means when the blocking means has been released by the operation of the retaining means; said blocking means, when in its blocking position, maintaining the retaining means in its operated condition; and means on the blocking means engaged by the member as the member returns to its normal position, after having been released by the operation of the retaining means, for returning the blocking means from its blocking position to enable the retaining means to return to its normal condition in cooperation with the member, whereby to insure that the member is returned to normal position before the retaining means can be effective thereon.

2,614,490
TEXTILE PRINTING MACHINE
Louis Galan, Pittsburgh, Pa.
Application December 2, 1949, Serial No. 130,683
6 Claims. (Cl. 101—122)



5. A textile printing machine comprising a flat topped table having an opening therein, an endless reticulated cloth-carrying conveyor traveling over said table and opening, a pair of parallel rollers one on each side of said opening and spaced slightly above the conveyor, an endless soaking cloth operatively mounted on the rollers, an endless apertured pattern disposed exteriorly on said soaking cloth and carried thereby so that the pattern is between said soaking cloth and conveyor during a portion of each revolution of the pattern, dye supply means to impregnate the soaking cloth with dye, fluid pressure means to drive the dye from the soaking cloth through the apertures in said pattern, and power means to operate said rollers and said conveyor, said fluid pressure means including a pipe extending transversely of an above a portion of the soaking cloth adjacent the aperture in the table, a neck depending from the pipe and extending longitudinally of the pipe and having a vertical slot therein, flanges on both sides of the lower end of said pipe extending outwardly from said slot in the pipe, a plate adjustably mounted on one of said flanges for controlling the effective opening of said slot, and a source of pressurized air connected with said pipe.

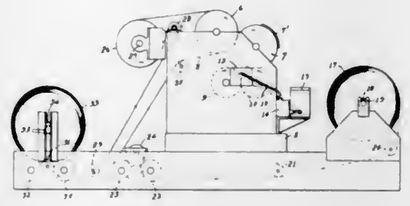
2,614,491
PROCESS FOR REGISTERING COLOR PLATES
Gilbert C. Murphy, Indianapolis, Ind.
Application November 27, 1948, Serial No. 62,296
2 Claims. (Cl. 101—211)



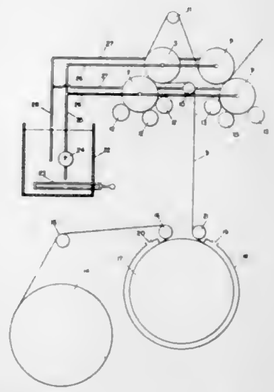
1. In a method for automatically registering a plurality of printing plates in sequence on a printing press cylinder which carries members for passing through ends of the plates to secure the plates on the cylinder, those steps of marking a tape with punch spots spaced apart in accordance with the spacing of the said carrying members across the cylinder; placing a length of the tape across and securing it to an end portion of the copy layout sheet; placing a second length of the tape across the opposite end portion of the sheet; the spacing apart of the two tape lengths being such that the spots thereon are spaced from tape to tape exactly the distance circumferentially of the cylinder between said cylinder plate carrying members; photographically making a negative of the copy including said tapes; photographically reproducing the negative on as many plates as there are color plates required; and etching the plates to cause the tape spots to appear as countersinks.

2,614,492
METHOD OF AND APPARATUS FOR PRINTING
George R. Brodie, Lower Merion Township, Montgomery County, Pa., assignor to Fred'k H. Levey Co., Inc., New York, N. Y., a corporation of New York
Application December 17, 1947, Serial No. 792,161
5 Claims. (Cl. 101—350)

3. A printing press comprising an impression cylinder, a rubber printing plate carried by the plate cylinder, a knurled inking roller having a relatively hard surface disposed to engage the rubber printing plate carried by the plate cylinder, a smooth-surfaced relatively softer roller disposed to engage the surface of the knurled roller, means for supplying ink to and constantly maintaining it throughout the length of the bight between the knurled roller and the smooth-surfaced roller, the two rollers being adapted to rotate in opposite directions, each toward the other at their upper sides, and means for adjusting the pressure between said rollers to control the depth of the layer of ink carried by the knurled roller to the rubber printing plate.

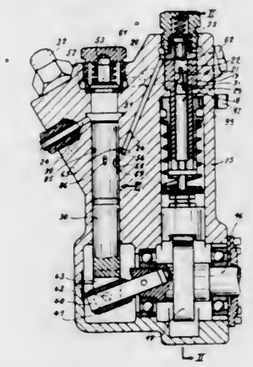


2,614,493
METHOD OF PRINTING
George Rogers Brodie, Lower Merion Township, Montgomery County, Pa., assignor to Fred'k H. Levey Co., Inc., New York, N. Y., a corporation of New York
Application April 2, 1946, Serial No. 658,953
5 Claims. (Cl. 101—426)



1. The method of printing on sheet material in which the application of the ink thereon is by plate and impression cylinders which comprises heating the sheet material, applying to the heated sheet material the impression of an ink comprising a coloring agent and a vehicle containing a thickening agent and a solvent therefor having a sufficiently low vapor pressure to make the ink stable under normal press room printing conditions but capable of rapid vaporization solely by the application of heat, the heating of the sheet material prior to the application of the ink impression being to an elevated temperature below the point at which discoloration thereof usually occurs but to a temperature sufficiently high that the heat still carried by the sheet material at the time of the application of the ink impression thereto is sufficient to rapidly vaporize the solvent from the ink and leave a dry impression, and cooling the plate cylinder to prevent its overheating and the setting-up of the ink thereon.

2,614,494
SINGLE PISTON INJECTION PUMP WITH FUEL DISTRIBUTOR FOR MULTICYLINDER COMBUSTION ENGINES
Willy Voit, Stuttgart-Bad Cannstatt, and Ulrich Aldinger, Stuttgart-N, Germany, assignors to Robert Bosch G. m. b. H., Stuttgart, Germany
Application August 31, 1950, Serial No. 182,536
In Germany October 1, 1948
5 Claims. (Cl. 103—2)

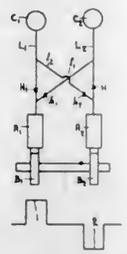


1. A fuel injection pump for a multi-cylinder internal combustion engine comprising the combination of a casing having a pair of parallel spaced bores therein, conduit means for connecting one bore to the other and one of said bores having a plurality of outlet passages, spaced from said conduit means and communicating with the said bore at predetermined spaced points therein, a distributor plunger reciprocating within said last mentioned bore, means for causing said plunger to reciprocate within said bore while simultaneously causing said plunger to oscillate about its axis, said means including a rotatable cam shaft and a crank pin inclined relative to and operatively connected to said plunger and in turn to said shaft so as to be driven thereby and a piston reciprocating in the other of said bores in said casing and operatively connected to said shaft whereby fuel may be continuously supplied through said conduit means from said last mentioned bore to the bore containing said distributor plunger while said distributor plunger ejects fuel into at least one of said outlet passages in the said plunger bore.

2,614,495
FUEL INJECTION SYSTEM FOR REVERSIBLE INTERNAL-COMBUSTION ENGINES
Poul Emil Wiene, Copenhagen, Denmark
Application June 24, 1946, Serial No. 679,016
In Denmark June 16, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires June 16, 1965
4 Claims. (Cl. 103—2)

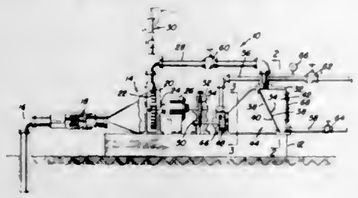
1. In a fuel pump, the combination of a cylinder having an inlet and a pair of outlet ports; a piston reciprocable in said cylinder; and a valve member in said cylinder having a passage therein for selectively connecting said inlet port with said outlet ports, respectively, when said valve member is in two positions relative to said cylinder, said valve member being adapted to have a first movement for adjustment about the longitudinal axis of said cylinder, and to have a second movement for adjustment axially, and by one of said movements to be brought into and out of said two positions to effect continuous supply of

fuel by successive reciprocation strokes of said piston through the outlet port to which said passage is connected, and by the other of said



movements to be conditioned for movement from one of said positions to the other one of said positions to prevent sticking of said valve member.

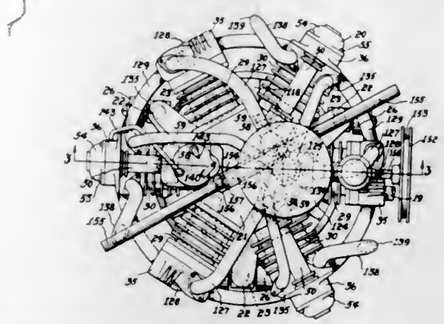
2,614,496
PUMPING APPARATUS
Loren W. O'Kelley, Porterville, Calif.
Application November 30, 1949, Serial No. 130,241
1 Claim. (Cl. 103—5)



In a pumping apparatus, the combination of a housing, a transverse filter screen provided in said housing and separating the same into a sediment chamber and a transfer chamber, a primary pump including an outlet duct connected to said sediment chamber, a discharge duct extending from said transfer chamber, a secondary pump provided in the transfer chamber adjacent said discharge duct, and common means for actuating said primary and secondary pumps, said common means including a prime mover having a rotatable drive shaft connected at one end to said primary pump, the other end of said shaft having a first gear secured thereto for rotation therewith, an offset second shaft having a second gear and said secondary pump secured thereto for rotation therewith, said first and second gears having a preselected gear ratio and being interengaged for driving said secondary pump at a speed different from that of said primary pump.

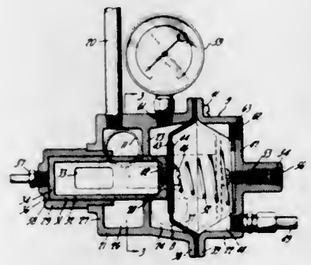
2,614,497
COMBINED COMPRESSOR AND ENGINE
Ellsworth C. Cowles, Corning, N. Y., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application February 15, 1947, Serial No. 728,775
6 Claims. (Cl. 103—6)

1. In a combined compressor and engine, a plurality of radially extending compressor cylinders, a plurality of radially extending engine cylinders arranged in alternate relation with the compressor cylinders and each engine cylinder lying opposite a compressor cylinder, reciprocatory pistons in the compressor and engine cylinders, a common crank shaft for all the pistons having only one crank, connecting rods for connecting the pistons to the crank, a fan on the crank shaft for blowing air against the cylinders, and a reservoir for oil between the fan and



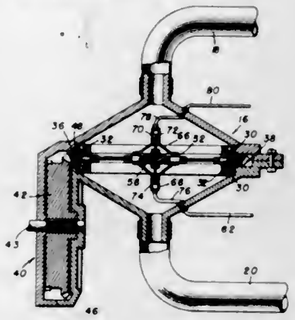
the cylinders and in coaxial relation with the fan extending into the air stream flowing from the fan to the cylinders.

2,614,498
COMBINATION VALVE AND AIR CHARGER
Jack E. Piccardo, Oakland, Calif., assignor, by mesne assignments, to Barnes-Shasta Pump Co., a corporation of California
Application September 8, 1947, Serial No. 772,827
1 Claim. (Cl. 103—6)



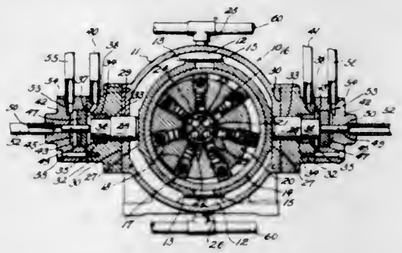
In an air charger of the character described, a casing having an interior wall defining on opposite sides thereof water inlet and discharge chambers, a cylinder communicating with said discharge chamber and having a closed distal end, a piston slidably mounted in an opening in said wall and mounted for reciprocation in said cylinder, said cylinder having an internal diameter greater than the outside diameter of said piston whereby there is provided a predetermined clearance between the sides of said piston and the sides of said cylinder, a pressure responsive drive means provided in said inlet chamber and connected to said piston to effect reciprocation thereof in said cylinder and relative to said wall, said piston being formed with a peripheral valve port at a position on the length of said piston movable to and through said opening upon said reciprocation of said piston and functioning to control the water flow through said opening in accordance with the pressure of said inlet chamber, and an air inlet check valve mounted in said closed cylinder end for admitting air into said cylinder upon displacement of said piston away from said end, said clearance being within the range of 0.001 to 0.006 of an inch and functioning as a check valve impeding the flow of water around said piston and providing the sole means for permitting the flow of said admitted air into the water flowing through said valve port.

2,614,499
SCREW PUMP
Gerald Lavern Mullins, Camden, Ark.
Application May 29, 1947, Serial No. 751,189
9 Claims. (Cl. 103—37)



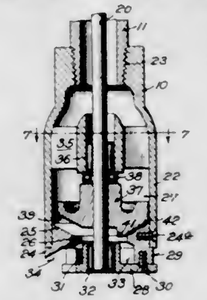
1. A flywheel actuated pump for use in a vehicle having a flywheel in a casing as a component of a fluid actuation unit comprising a housing communicating with said casing and having a fluid inlet and a fluid outlet, a rotor disposed in said housing including a hub and an outer member engaging the flywheel and peripherally supported in said housing, a plurality of blades, each of said blades having a pivot pin at the tip thereof disposed in said outer member and a crank attached at the root thereof mounted for pivotal movement in said hub, and means for moving said hub with respect to said outer member thereby rotating said blades about said cranks and said pivot pins as an axis to change the pitch thereof.

2,614,500
FLUID-OPERABLE CONTROL MECHANISM FOR VARIABLE DELIVERY FLUID PUMPS
Warren R. Tucker, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Mount Gilead, Ohio, a corporation of Delaware
Application August 25, 1948, Serial No. 46,058
4 Claims. (Cl. 103—38)



1. A control device for a variable delivery fluid pump having a flow-control member shiftable between opposite full delivery positions and a neutral no-delivery position, comprising a plurality of opposed fluid-actuated plungers arranged on opposite sides of the flow-control member of said pump and operable individually to shift the flow-control member to either of its full-delivery positions and operable in unison to shift the flow-control member to its neutral position, fluid pressure-responsive stop devices engageable with said plungers for limiting the shifting movement of the flow control member of said pump, said stop devices being operable in opposition to the influence of said plungers to limit the shifting movement of the flow-control member to intermediate positions between its neutral and full-delivery positions, and oppositely disposed piston means engageable with said plungers and responsive to a predetermined delivery pressure of said pump for shifting the flow-control member of said pump from a fluid-delivery position toward a no-delivery position in opposition to the influence of said plungers.

2,614,501
SCREW AND CENTRIFUGAL PUMP
Dorr S. Baker, Little Falls Township, Passaic County, N. J.
Application December 19, 1949, Serial No. 133,927
8 Claims. (Cl. 103—88)

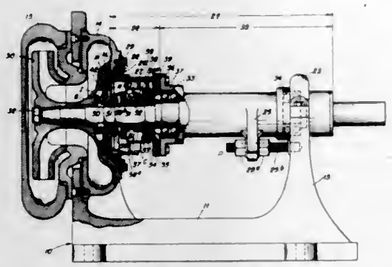


1. In a centrifugal liquid pump, an impeller housing providing a cavity therein defined by vertical cylindrical side walls, an inverted conical bottom providing an axial liquid intake port, and a top providing an axial liquid outlet port, axial shaft bearing means in said housing, a driven axial impeller shaft carried in said bearing means and extending out of said housing through said liquid outlet port, a rotary impeller mounted on said shaft adjacent to the bottom of said housing, said impeller comprising a hub having bottom and sides spaced from and conforming substantially to the shape of the bottom and adjacent side wall portions of said cavity, and a plurality of arcuately disposed vanes on said hub, each of said vanes extending substantially entirely across the space between said hub and the opposed internal faces of said cavity, and being shaped to spiral outwardly across the bottom of said hub in a direction away from the direction of rotation of said impeller from a central point to a peripheral point and to extend up the sides of said hub, the leading face of the bottom portion of each vane being inclined downwardly away from the direction of rotation of the impeller and the leading face of the side portion of each vane being inclined upwardly away from the direction of rotation of the impeller.

2,614,502
CENTRIFUGAL PUMP
Elmer R. Wilfley and John L. Aldred, Jr., Denver, Colo., assignors to A. R. Wilfley and Sons, Inc., Denver, Colo., a corporation of Colorado
Application September 28, 1949, Serial No. 118,236
2 Claims. (Cl. 103—103)

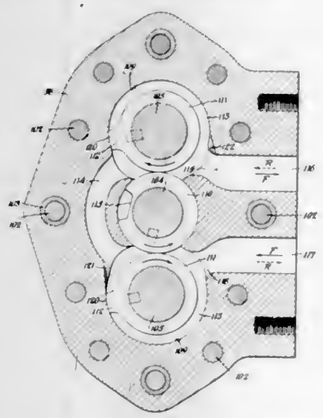
1. A centrifugal pump comprising a body portion, an upright portion which is integral with and extends upwardly from said body portion, an opening in said upright portion, a pair of complementary housing portions in the form of half-shells, said half-shells being carried by opposite sides of said upright portion, one of said half-shells forming a discharge housing and the other half-shell forming an intake housing, a rotating impeller shaft extending through said intake

housing shell and into said discharge housing shell, a center intake impeller mounted on the discharge housing end of said shaft and rotatable therewith, an annular member disposed between said discharge housing shell and said upright portion and secured to one side of the upright portion, said annular member having a central



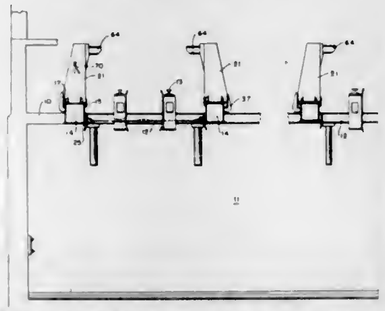
portion which extends through the opening in said upright portion and which telescopes within said intake housing shell, the annular member having a central opening communicating with the intake housing and the impeller, thus providing an interconnecting passageway therebetween for conducting fluid to said impeller.

2,614,503
MULTICYLINDER ROTARY ABUTMENT HYDRAULIC POWER CONVERTER
Frank Berry, Corinth, Miss., assignor, by mesne assignments, to Oliver Iron and Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 25, 1949, Serial No. 123,503
10 Claims. (Cl. 103—125)



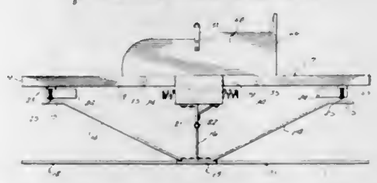
1. In an hydraulic device of the class described, a casing having a plurality of annular cylinders each of which has a fluid inlet and a fluid outlet, a shaft disposed centrally with respect to each of the annular cylinders, a piston slidably received in each of said annular cylinders and fixed to the shaft disposed centrally thereof, a cylindrical abutment with a recess to clear each of said pistons, and a fluid passage connecting the outlet of one cylinder to the inlet of another cylinder of cross-sectional area substantially equal to the first, the piston of each of the annular cylinders so connected having a sealing surface movable in contiguous relationship to a surface of its annular cylinder to provide a substantial surface sealing area therebetween, the pistons and the connected outlet and inlet being constructed and arranged as follows: with the piston of said one annular cylinder in a position in which its sealing surface is contiguous to a surface of its annular cylinder and with the leading edge of the piston opposite the edge of the outlet, the piston of said other annular cylinder is in a position in which its sealing surface is contiguous to a surface of its annular cylinder and with the trailing edge of the piston opposite the edge of the inlet so that the piston of said one annular cylinder begins to lose its full sealing effectiveness over its said surface sealing area just as the piston of said other annular cylinder acquires its full sealing effectiveness over its said surface sealing area whereby the action of said two pistons is blended to reduce pulsation substantially.

2,614,504
VEHICLE BODY SUPPORT
Louis D. Holmes, Blue Island, William J. Haaksma, Harvey, and Robert S. Hammond, Winnetka, Ill., assignors to Whiting Corporation, a corporation of Illinois
Application March 31, 1950, Serial No. 153,202
12 Claims. (Cl. 104—32)



1. Apparatus for supporting a railway vehicle body and the like comprising an elongated girder adapted for mounting near a shop floor parallel to a vehicle passageway and having a straight generally horizontal surface, an upwardly extending pillar slidably engaging said upper surface for movement along the girder, a block slidably engaging the pillar for generally vertical movement, a body support arm carried by the block and mounted for movement inwardly towards the vehicle, means for holding the block at a selected elevation on the pillar, and a stabilizing hook secured at one end to the pillar and having its opposite end disposed for engagement with a substantially horizontal surface on the girder outwardly from the center line thereof.

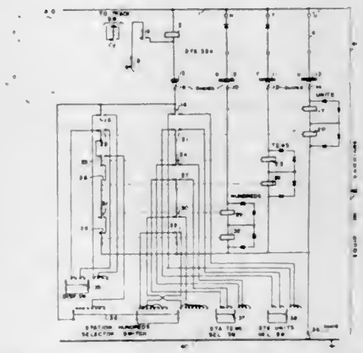
2,614,505
EXERCISING TOY
Charles J. Jugans, Bloomingdale, N. J.
Application April 25, 1950, Serial No. 158,018
3 Claims. (Cl. 104—79)



3. A child's exercising toy for use by a single child comprising a base, upstanding bracket

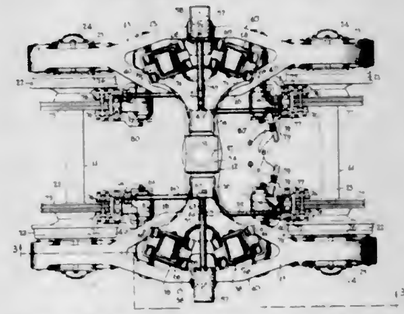
members on the opposite sides of the base at the intermediate portion thereof, a rectangular frame comprising a pair of inwardly facing longitudinal channel bars and respective cross bars connecting the end portions of said channel bars, depending bracket means carried by the mid-portions of the respective channel bars and hinged to said upstanding bracket members for pivotal movement around a transverse horizontal axis beneath the frame, a pair of transverse rod members, rollers journaled on the ends of said rod members and received in the respective channel bars, a seat secured on said rod members arranged to receive a single child, a depending transverse plate carried by said seat, respective longitudinal coil springs secured to the opposite sides of said plate, respective abutments secured to said cross bars engageable by said springs to limit and cushion longitudinal movement of said seat with respect to said channel bars produced by rocking exercising movement of the child in the seat, and respective upwardly and longitudinally inclined spring bars secured to the mid-portion of said base and having horizontal free ends underlying the respective cross bars, limiting and cushioning oscillations of said frame produced by the child's rocking exercising movements.

2,614,506
CONVEYER SWITCHING SYSTEM
Kurt Mullerheim, New York, N. Y., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application March 11, 1946, Serial No. 653,513
8 Claims. (Cl. 104—88)



1. In an electric conveyor system, a track, a self propelled vehicle moving along said track, a first group of branch tracks, a plurality of receiving stations in each branch track of said first group, a second group of branch tracks, a dispatching station in each branch track of said second group, a carriage stopping means at each receiving station and a track switching means at the entrance to each branch track, a switching point at each branch track entrance and a stopping point at each receiving station, a plurality of sets of relays on said vehicle, contacting shoes carried on said vehicle and each shoe connected to a corresponding relay set, contacts on said vehicle relays, track contacts corresponding respectively to said shoes at each switching and stopping point marked electrically in different ways to cause the operation of said relay sets in different combinations as said contacting shoes simultaneously engage the corresponding track contacts, a different combination of said vehicle relays being operated at each switching and stopping point responsive to such engagement, combination circuits also corresponding to said switching and stopping points being partially completed through the contacts of said vehicle relay sets in response to the operation of each relay combination, said combination circuits comprising a first group of combination circuits corresponding respectively to said receiving station switching points, a second group of combination circuits corresponding respectively to said receiving station stopping points, and a third group of combination circuits corresponding respectively to said dispatching station switching points; a first manually operated preselecting means on said carriage for completing one of said partially completed combination circuits in said first group of circuits to effect the operation of the track switching means at the entrance to a preselected one of said receiving station branch tracks, a second manually operated preselecting means on said carriage for completing one of said partially completed combination circuits in said second group of circuits to effect the operation of the vehicle stopping means at a preselected one of said receiving stations, and a third manually operated preselecting means on said carriage for completing one of said partially completed combination circuits in said third group of circuits to effect the operation of the track switching means at the entrance to a preselected one of said dispatching station branch tracks.

2,614,507
RAILWAY TRUCK
Carolus L. Eksergian, Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application August 19, 1946, Serial No. 691,426
7 Claims. (Cl. 105—197)

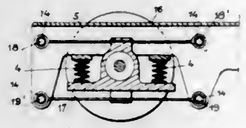


1. In a railway truck, spaced side frames supported adjacent their ends by wheels, each side frame being split into two spaced inner and outer branches to form a widened central portion, a transverse member interconnecting the mid-portions of said branches and other fore and aft transverse members spaced from said first transverse member also interconnecting said branches, the widened central portions of the side frames being interconnected by a through-running member extending from side to side of the truck, said fore and aft transverse members extending inwardly some distance beyond the inner of said branches and forming, through their respective inner end portions, a support for the brake mechanism associated with the adjacent wheels.

2,614,508
RAILWAY VEHICLE AXLE MOUNTING
Jean Marcel Archambault, Asnieres, France
Application April 13, 1946, Serial No. 661,930
In France August 19, 1943
2 Claims. (Cl. 105—224)

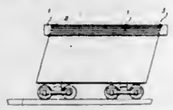
1. In a railway vehicle including a body, a pair of wheels, an axle carried by said pair of wheels

and spring means for suspending said body on said axle, said spring means comprising at least one main spring interposed between said body and said axle for holding said body in a predetermined position with respect to said axle when said body is subjected only to the static action of a normal load, at least two flat spring strips having their flat faces substantially horizontal in said loading conditions, said spring strips having each one part thereof rigidly secured to said axle at different levels and extending at right angles to said axle, a spindle parallel to said axle rigid with said body and located on one side of the



vertical plane of the axes of said wheels at the level of one of said strips, a spindle parallel to said axle rigid with said body and located on the other side of said vertical plane at the level of the other strip, collars carried by the ends of said strips, in the form of cylindrical surfaces having their generatrices parallel to said axle, said collars surrounding said spindles respectively and tubular rubber sleeves compressed between said collars and said spindles respectively so as to adhere by their inner surfaces against said spindles and by their outer surfaces against said collars.

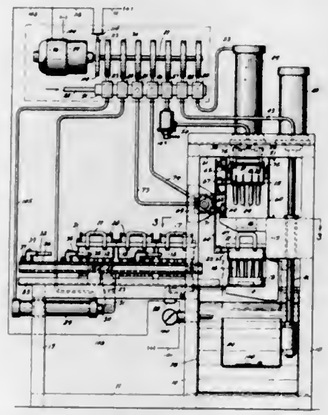
2,614,509
METHOD OF MANUFACTURING AND REPAIRING ROOFS OF RAILWAY WAGONS AND SIMILAR VEHICLES
Juan Carandell Marimón, Barcelona, Spain, assignor to Francisco Batalla Faidella, Barcelona, Spain
Application February 18, 1948, Serial No. 9,218
In Great Britain October 26, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 26, 1965
6 Claims. (Cl. 105—377)



1. In a railway wagon and the like, a rigid roof for said wagon, securing means for said rigid roof, said securing means being attached to the end walls of said wagon along the longitudinal middle line of said wagon, said rigid roof being solely and exclusively secured to said wagon by said securing means.

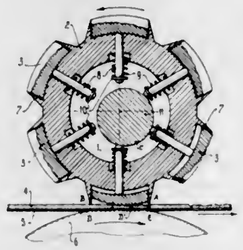
2,614,510
APPARATUS FOR SEPARATING FROZEN ARTICLES FROM MOLDS
Walter E. Heise, Syracuse, N. Y.
Application February 28, 1947, Serial No. 731,676
10 Claims. (Cl. 107—8)

1. Apparatus for separating frozen articles from moulds containing a plurality of such articles attached to a holder plate comprising a separating station, a mould advancing means operable to successively advance filled moulds to said station and empty moulds therefrom, a mould heating means arranged at said station and operable to heat said moulds sufficiently to weaken the surface adhesion between the frozen articles and the moulds, a holder plate moving means arranged at said station and being movable into engagement with said plates and being operable during application of heat to said moulds to exert a force incapable of separating the frozen articles from the moulds and capable of moving said holder plates upwardly to effect



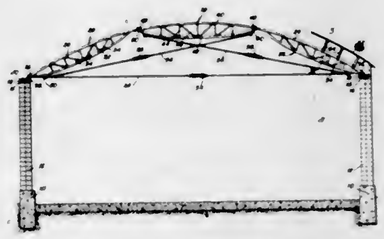
separation of the articles and the moulds when said surface adhesion is weakened, a holder plate advancing means operable to advance the separated plates with the articles attached thereto from said station, and motion transmitting mechanism operable to actuate said advancing means and plate moving means in timed relation.

2,614,511
DEVICE FOR MOLDING SHAPES FROM PLASTIC MATERIAL
Willem Neutelings, Bergen op Zoom, Netherlands, assignor to Industrie-en Handelmaatschappij "De Vuurslag" C. V., Bergen op Zoom, Netherlands, a company of The Netherlands
Application November 16, 1946, Serial No. 710,343
In Belgium August 16, 1939
6 Claims. (Cl. 107—23)



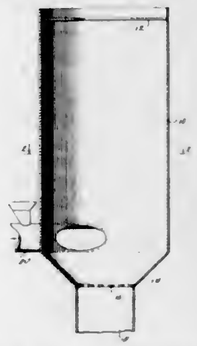
1. In a device for molding shapes from plastic material such as dough, in combination, a rotatable roller; a counter roller cooperating therewith; means for feeding the material in a continuous sheet between said two rollers; at least one movable plunger member for making impressions in said material; means carried by said rotatable roller for reciprocating said plunger member radially inward and outward of said rotatable roller; resilient means yieldably opposing the outward movement of said plunger member; and a working face forming part of said plunger member, the said working face sloping inwardly from the leading edge thereof toward the axis of the rotatable roller to the same extent that said plunger member is moved outwardly of said rotatable roller by said reciprocating means, throughout the molding operation of the plunger on the dough, whereby the area of contact of said working face with the sheet of material remains at a substantially constant distance from the axis of the rotatable roller during rotation of the latter.

2,614,512
ROOF TRUSS STRUCTURE
Roland C. Gross, Greenfield, Iowa
Application June 7, 1950, Serial No. 166,575
3 Claims. (Cl. 108—23)



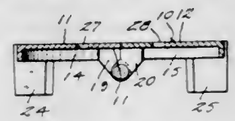
1. A truss structure for supporting a roof and adapted to be supported by spaced substantially parallel wall structures comprising capping plates having angularly extending projecting members, means securing said capping plates to said wall structures, tubular arcuate end truss units slidingly received over said projecting members, and a central tubular arcuate truss unit terminally slidingly engaging said end truss units, tension means connecting the outer terminals of said end truss units, and tension means connecting each terminal of the central truss unit to the outer terminal of one of the end truss units.

2,614,513
METHOD OF AND VORTEX-TYPE FURNACE FOR BURNING WASTE FUEL
Henry C. L. Miller and Harry A. Raddin, Richmond, Va., assignors to The Hofft Company, Inc., Indianapolis, Ind., a corporation of Indiana
Application March 28, 1950, Serial No. 152,294
3 Claims. (Cl. 110—7)



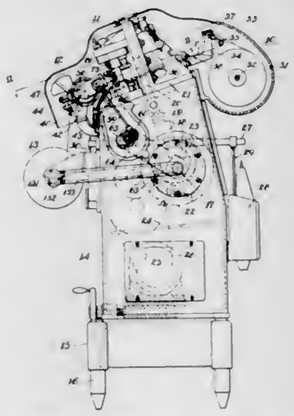
1. A method of burning comprising: forming a relatively high velocity continuous jet of a mixture of combustible particles of light weight, diverse sizing, high moisture content and high volatile content and air; directing said jet into a confined atmosphere maintained above ignition temperature, guiding the jet in a horizontal circular path while causing it to diverge vertically above and below the centerline of the jet, and directing from substantially below the centerline of the jet a current of air of a velocity relatively lower than that of said jet upwardly through substantially the center of the circular path.

2,614,514
RADIANT PLATE AND BAFFLE FOR HEATING BURNERS
Harvey E. Martindale and Fabian E. Janquart, Marinette, Wis., assignors to John H. Jerred, Madison, Wis.
Application January 27, 1949, Serial No. 73,132
2 Claims. (Cl. 110—97)



1. A deflector attachment for use in the upwardly opening oil drum of a circulating heater of the liquid fuel burner type comprising a circular plate formed of semi-circular members, said members having transverse edges adapted for abutted engagement to form a close fitting assembly, dependent flanges carried by the outer periphery of said members, and feet members carried by said plate having dependent portions that extend below and outwardly of said flanges for engagement with the drum to space said plate above and extending outwardly of the drum opening, said flanges extending about the semi-circular edge of each member only, whereby when they are assembled in the manner recited a continuous circular flange about the entire assembly is thus formed.

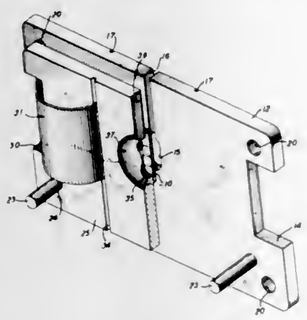
2,614,515
HOOD FORMING MACHINE
Edward M. Wheeler, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 22, 1951, Serial No. 233,000
7 Claims. (Cl. 113—42)



1. In a hood forming machine, a die set including a die and a reciprocable punch for blanking and drawing hoods from interposed foil strip normally spaced above said die and previously provided with printed labels spaced along its length and between them with a tab-closed perforation near each edge of the strip, a pair of strip

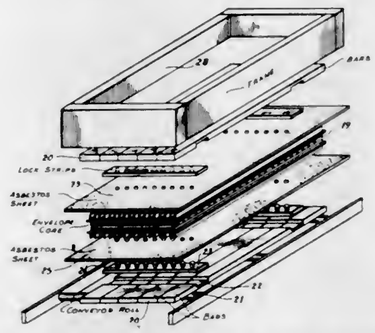
feed rolls operable on the strip leaving said die set, oscillatory means connected to one of said feed rolls to actuate the same in timed relation to reciprocations of said punch for feeding the strip past said die set and conveying the finished hoods therefrom, a shuttle plate slidably mounted on said die in flanking relation to a raised central area thereof and co-planar with the top of said central area for clamping of the foil strip thereon, means for yieldingly holding said shuttle plate in a fixed retracted position on said die, a stripper movable with said punch for depressing and clamping the foil strip against the die and the shuttle plate, lever means arranged to be engaged and actuated by said stripper as it depresses the foil strip for advancing said shuttle plate until the stripper reaches clamping position, upstanding pins on said plate adapted to push out the tabs and enter the perforations of the foremost label concurrently with depression of the foil strip into clamped position, said feed rolls at each operation thereof advancing the strip to a short of registry position that disposes the perforations of the foremost label in forwardly overlapped relation to said pins, whereby said pins advance freely until they engage the front walls of the perforations and positively move the strip during the remainder of their forward travel, to effect registry between the label and the die set, and friction drive means interconnected between said punch and said one feed roll to actuate the latter subsequent to foil clamping to take up the slack in the foil strip between the die set and the feed rolls that is created by the forward motion of the shuttle plate.

2,614,516
ARTICLE HOLDING APPARATUS
George W. Soderman, West Englewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 20, 1948, Serial No. 55,577
3 Claims. (Cl. 113—99)



1. An apparatus for removably holding fragile articles while parts are secured thereto comprising a first article engaging member having an aperture therein open to one side of the member through a slot, a second article engaging member having an aperture therein open to one side of the member through a slot, the apertures in the members exposing portions of opposing faces of the article whereby parts may be secured thereto, and the slots providing exits for the parts, springs normally urging the members toward each other, and means to cause relative positioning of the members to maintain alignment of the apertures and their slots, the first member having pin receiving apertures at spaced positions therein through which pins may be moved to move the second member away from the first member against the force of the springs to open the holder for the successive loading and unloading of articles between the members.

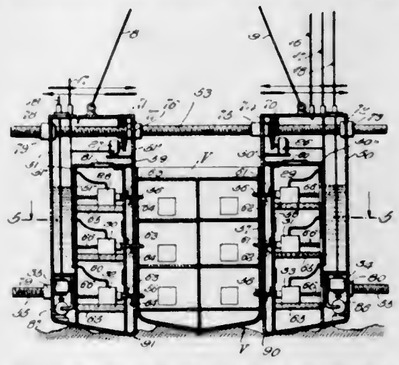
2,614,517
BRAZING JIG FOR FINNED HEAT EXCHANGER ENVELOPES
David G. Peterson, Wellsville, N. Y., assignor to The Air Preheater Corporation, New York, N. Y.
Application May 21, 1951, Serial No. 227,420
6 Claims. (Cl. 113—99)



1. A brazing assembly jig for a heat exchanger envelope that includes spaced, rectangular wall-forming metallic plates provided on their outer surfaces with longitudinally extending metallic fins, said jig comprising; a row of similar shroud bars disposed in abutment in side by side relation and each having transverse slots at longitudinally spaced points alined with correspondingly located slots in adjacent bars to form transverse locking grooves; locking strips seated in said grooves and maintaining the transverse alinement of said shroud bars; a row of positioning pins on each locking bar spaced apart to conform to the spacing of the channels on the envelope and adapted to engage the longitudinal fins on said heat exchanger envelope; a second set of locking strips and slotted shroud bars superimposed on a heat exchanger envelope supported on said shroud bars; and a rectangular frame member surrounding and enclosing the assembly of heat exchanger envelope sandwiched between upper and lower layers of shroud bars.

2,614,518
VESSEL RAISING APPARATUS
William Haviland Carter, Portland, Maine
Application October 15, 1946, Serial No. 703,355
6 Claims. (Cl. 114—51)

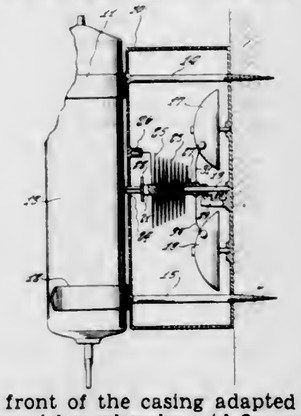
1. Equipment for salvaging vessels sunken in deep sea positions, said equipment comprising a barge in combination with adjustably connected oppositely disposed dry dock elements, said barge and dock elements being connected by controlling cables suspended from said barge, said cables being respectively connected to separate winches located on the deck of said barge, electric cables leading from said barge to electric motors located in said dock elements, a plurality of screw threaded shafts, said shafts connecting the respectively oppositely disposed ends of said dock elements and extending transversely therethrough, the arrangement and location of said threaded shafts being in positions clear of and beyond the bow and stern, respectively, of a sunken vessel to be lifted, said threaded shafts in each pair of dock element ends being located in spaced relation above and below the horizontal longitudinal central plane of said dock elements, captive screw threaded gears mounted in said dock elements and on said screw threaded shafts, electric motors mounted in said dock elements and having gears, each respectively meshing with the captive gears whereby said captive gears may be actuated to adjust the shafts relative to the dock elements, said electric motors being controlled through said electric cables, said dock elements being provided with bulkheads and partitions to reinforce said dock elements, a multiplicity of drilling motors and supports therefor mounted within the respective dock elements and adjacent the inner sides thereof, each of



said drilling motors carrying a penetrating drill adapted to penetrate the side of a sunken vessel located between said dock elements, said supports comprising guides to direct the respective motors and their drills forwardly, means interposed between the bulkheads and the respective motors to urge them forwardly when actuated, control means for the drilling motors located in said barge whereby the drills may be actuated to penetrate the sides of a sunken vessel, pumps in said elements to pump the ballast out of the dock elements and thereby impart buoyant quality to the dock elements whereby a penetrated sunken vessel located between said dock elements may be lifted to a floating condition near said barge, said pumps being provided with electric motors having control means located in said barge.

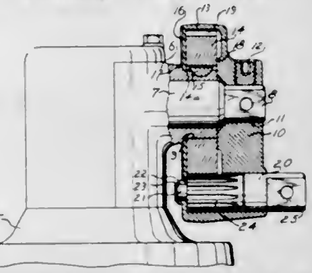
2,614,519
COMBINED FIRE ALARM AND EXTINGUISHER HOLDER
Albert J. Paladino, Brooklyn, N. Y.
Application December 9, 1950, Serial No. 200,050
1 Claim. (Cl. 116—67)

A combined fire extinguisher holder and bell alarm device comprising a casing, bell elements mounted in the casing, a pin mounted in the casing between the bell elements, an operating member slidably fitted upon said pin and adapted to project through the front of the casing, biasing means extending between the pin and the operating member to normally urge the operating member toward the front of the casing, a flange engaging with the front of the casing, a coil spring connected between the operating member and the casing and a projection on the operating member, stop means on the casing engageable with the projection on the operating member upon the operating member being depressed against the action of the spring means, said coil spring being adapted to be wound and striking elements upon the operating member engageable with the bell elements upon the operating member being released and acted upon by the coil spring, spaced brackets extending



from the front of the casing adapted to receive a fire extinguisher whereby said fire extinguisher may keep the operating member depressed.

2,614,520
MECHANICAL ADVANTAGE OPERATOR
Herbert Allen, Houston, Tex., assignor to Cameron Iron Works Inc., Houston, Tex., a corporation of Texas
Application March 30, 1950, Serial No. 152,914
6 Claims. (Cl. 116—125)

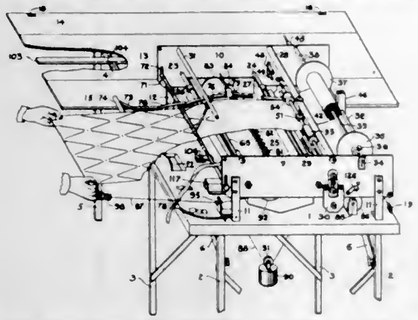


1. In combination a valve, a valve body part with a hub, a valve operating shaft adapted to be rotated to open and close said valve and journaled in the hub with its free end extending from the hub and having a wrench receiving part, a bearing surface exteriorly of the hub, a gear ring mounted on the bearing surface and keyed to the hub to prevent rotation therebetween and yet to permit ready demounting of the gear ring from the hub, said gear ring being further arranged with its gear teeth concentrically arranged about the operating shaft, a housing covering the gear ring and releasably secured to the wrench securing part of the operating shaft against movement relative thereto, said housing bearing against the gear ring to hold it upon the hub, and a pinion journaled in the housing meshing with the gear ring.

2,614,521
WALLPAPER TRIMMING AND PASTING AND MEASURING MACHINE
Jacob Eida, West Hollis, N. H.
Application March 3, 1950, Serial No. 147,513
6 Claims. (Cl. 118—9)

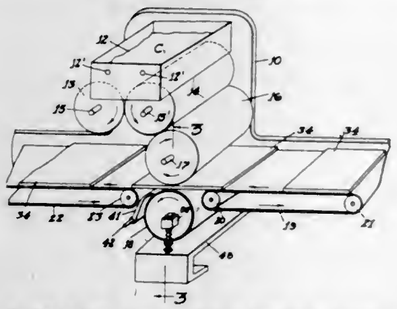
1. A wallpaper trimming and pasting and cutting machine comprising a supporting table top carried at a working elevation, supporting end members upstanding near the ends of said table top, wallpaper roll supporting spool means at the rear between said supporting end members,

paper-carrying and advancing rollers in front of the roll-supporting spool, rotatable edge-trimming knives carried by the paper advancing rollers operable to trim the edges of a strip of paper passing through the paper-carrying and advancing rollers, a pastepan and rotatable paste-applying means in front of the strip-carrying and edge-trimming means, a transversely disposed strip-cutting knife carried between the support-



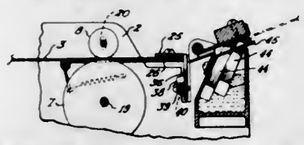
ing end members forwardly of the paste pan, cable pulleys connected with the paper advancing rollers and the rotatable paste applying means, and manually actuatable measuring cable means carried over said pulleys to operate said paper-carrying and advancing rollers and said edge-trimming knives and the paste-applying means in the paste pan as a strip of paper is drawn from the wallpaper roll to a length determined by said measuring cable.

2,614,522
COATING MACHINE FOR COATING FLEXIBLE SHEETS
William T. Snyder, South Lancaster, Mass.
Application September 22, 1948, Serial No. 50,537
2 Claims. (Cl. 118—11)



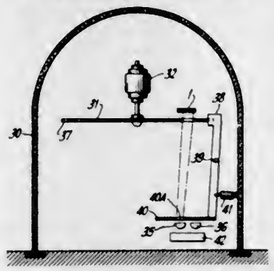
1. Apparatus for coating flexible sheets comprising in combination, a rotatably driven roll, means for supplying coating medium to the surface of said roll, means for feeding a sheet in flat condition to engage one surface thereof with the periphery of said coating roll, means for supporting said sheet in a flat condition beyond said coating roll, a second roll having a perforated surface, a hollow casing for rotatably supporting said second roll and providing a port extending transversely to the direction of movement of a sheet and in communication with a portion of said perforated roll surface, means for rotatably driving said second roll around said casing, means for evacuating the interior of said casing to subject the uncoated side of a sheet to suction as it passes between said rolls within a zone defined by the limited number of perforations exposed to suction through said port, to thereby strip said sheet from said coating roll as it continues its movement in a flat condition onto said sheet supporting means, and means for yieldingly supporting said second roll, said evacuated casing, and said roll driving means, as a unit, so as to urge that portion of said roll in the vicinity of said port into engagement with the uncoated side of a sheet passing between the rolls.

2,614,523
GUMMED TAPE SERVING AND MOISTENING MECHANISM
Robert A. Havemann and Donald S. Bruce, Troy, Ohio, and Charles B. MacRae, New York, N. Y., assignors to The Gummed Products Company, Troy, Ohio, a corporation of Ohio
Application December 22, 1949, Serial No. 134,454
8 Claims. (Cl. 118—39)



4. In combination in a gummed tape serving machine provided with a tape feeding device for tape which has a tear string extending medially and lengthwise of the tape, a supply of such tape, means for feeding forwarding a limited supply of such tape, in a step-by-step operation, a retaining plate under which said tape is fed having a severing edge extending crosswise of the direction of feed of the tape, a cut-off knife provided with means, synchronized with the tape feeding device, for actuating said knife and adapted to move into such relationship with the severing edge of the retaining plate as to sever the tape crosswise of its length at the end of each feeding operation, a pair of spaced apart slitting knives secured to said cut-off knife in angular relation thereto for slitting an edge of the tape at the end of a step-by-step feeding operation to form a tear string pull tab, and a brush for moistening the tape as it is fed forwardly, said moistening brush being provided with means for inhibiting moistening of the tape along a band through which the tear string extends.

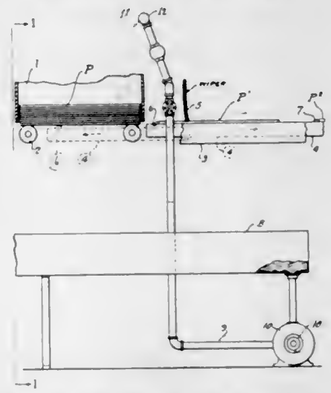
2,614,524
CAPACITOR MANUFACTURING EVAPORATION APPARATUS
Harold E. Haynes, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application August 22, 1946, Serial No. 692,355. Divided and this application June 5, 1948, Serial No. 31,381
5 Claims. (Cl. 118—49)



1. An electrical capacitor building machine comprising a means to retain a base member of insulation material within an evacuated vessel, a movable disc having apertures therein located beneath one of the surfaces of said base of insulation material, means to move said disc with respect to the surface of said base of insulation material, two fixed vessels, one for holding a

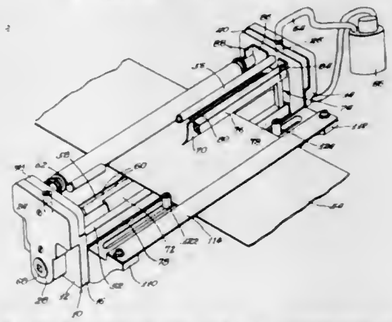
metal and the other for holding a dielectric material, said fixed vessels each being positioned beneath certain apertures in said movable disc, a movable mask above said fixed vessels, cam means for simultaneously moving said disc and said mask with respect to said fixed vessels to progressively coat thin layers of metal and dielectric material on said base to form a capacitor.

2,614,525
APPARATUS FOR OILING AND CLEANING PALLETS
Robert O. Davis, Adrian, Mich., assignor to Stearns Manufacturing Company, Adrian, Mich., a corporation of Michigan
Application April 26, 1947, Serial No. 744,047
3 Claims. (Cl. 118—100)



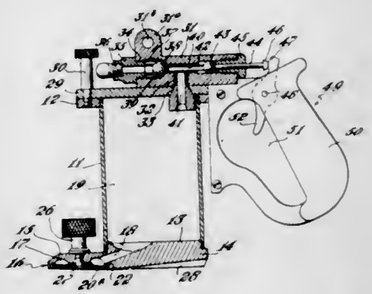
1. Apparatus for oiling and cleaning pallets, comprising an elevated magazine with an open bottom, means for supporting a stack of pallets above said open bottom, an oil distributor for flowing oil over the pallets in the magazine, a second oil distributor for flowing oil over a pallet detached from said stack and traveling along a supporting surface, a pallet-supporting surface along which the pallets travel, and means for detaching individual pallets from the underside of said stack and pushing them along said surface and said oil distributing area.

2,614,526
METAL STOCK OILER
Adolph J. Zaber and John De Witt Gray, Evanston, Ill., assignors to Graymills Corporation, Evanston, Ill., a corporation of Illinois
Application January 14, 1949, Serial No. 71,006
8 Claims. (Cl. 118—122)



1. A stock oiler for use in a circulating liquid system comprising a sump, guides for directing the stock with its surfaces substantially horizontal over the sump along a selected path, liquid applicators positioned above and below said path, vertical guideways mounted on opposite inside walls of the sump, a means for treating the surface of stock, one of said means mounted above said path and the other mounted therebelow, and slides mounted on opposite ends of each of said surface-treating means seatable on said guideways for free vertical movement therein so that each of said surface-treating means is free to move upwardly and downwardly independently of each other, and a contraction spring means mounted between the upper and lower surface-treating means and urging them together.

2,614,527
APPARATUS FOR USE IN CEMENT LASTING FOOTWEAR
Jacob S. Kamborian, West Newton, Mass.
Application April 19, 1949, Serial No. 88,404
32 Claims. (Cl. 118—301)

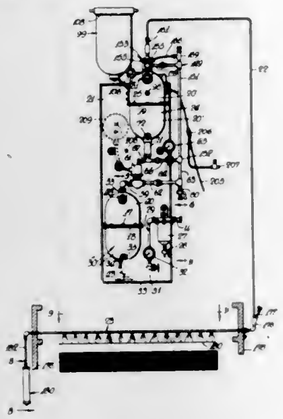


1. Apparatus for use in applying adhesive to the marginal portion of a shoe insole as a step in the lasting operation, said apparatus comprising an air-tight container for fluid adhesive, a foot having a curved forward edge designed to fit within the upstanding lasting margin at the end of the shoe and having an undersurface designed to rest upon the insole, said foot having a single U-shaped delivery orifice in its undersurface, said orifice being concentric with the curved forward edge of the foot, a resilient valve of thin sheet metal normally effective to close the orifice, means defining a passage for conveying adhesive from the container to said orifice, and means operative to apply pressure to the fluid in the container sufficient to flex the valve and thereby permit flow of adhesive through the orifice.

2,614,528
DRY SPRAY EQUIPMENT
Charles William Britcher, Glen Ridge, N. J., assignor to Craig Corporation, a corporation of New York
Application April 30, 1948, Serial No. 24,402
6 Claims. (Cl. 118—308)

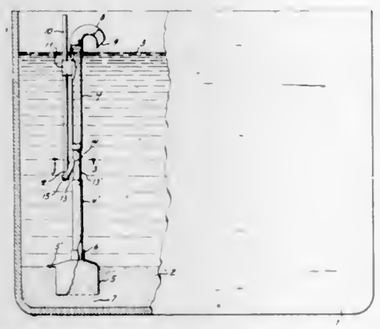
1. A dry powder spray equipment comprising a powder spray tank having an outlet and an inlet, means for delivering compressed air into said inlet, one or more fixed nozzles in said tank connected to said inlet and each positioned to direct a jet of air across radii of said tank and downward into the powder in said tank at an angle of less than 90 degrees, to whirl said air in an oblique path thereby to stir up a cloud of

powder in said tank and means associated with said outlet for creating a suction in said tank



whereby powder may be entrained from such cloud for delivery to the surface to be sprayed.

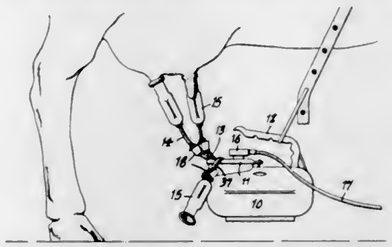
2,614,529
FILTER AERATOR FOR AQUARIA
Thorwald H. Hansen, Rahway, N. J.
Application January 10, 1951, Serial No. 205,351
13 Claims. (Cl. 119—5)



1. Apparatus for simultaneously aerating and filtering the water in an aquarium which comprises a tank having a bed of aquarium gravel or the like in the bottom thereof, a substantially vertical water-tube having an enlargement at the lower end thereof, said enlargement being open at its lower end and being substantially embedded in said gravel and spaced from the floor of said tank, an air-tube attached to the outside of said water-tube, said air-tube entering the side of said water-tube, air passing through said water-tube drawing water upwardly therein and through said gravel to filter said water.

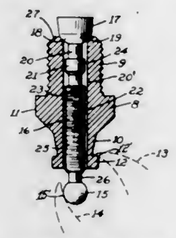
2,614,530
CONTROL UNIT FOR MILKING MACHINES
Albert G. Perkins, Grand Island, N. Y.
Application December 9, 1949, Serial No. 132,007
11 Claims. (Cl. 119—14.08)

11. The combination with a milking machine having a teat cup connection and a milk-receiving can including an intake spout, of a collapsible tube section in milk flow communication at one end with the teat cup connection and having a flexible extension at its other end for coupled attachment to said spout and adapted to fold over and close the mouth of the spout subsequent to the completion of a milking operation, means applied to said collapsible tube section for contractible engagement therewith to a closed sealed



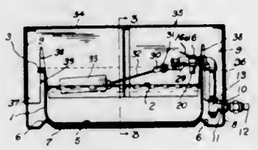
position, and means associated with said spout and said flexible extension for defining a vent normally closed during the milking operation and adapted to be opened when such extension is closed in folded relation over the spout.

2,614,531
POULTRY DRINKING VALVE
Wolfram A. Futterer, Woodstock, Ill.; Frances L. Futterer, executrix of said Wolfram A. Futterer, deceased, assignor to Broiler Equipment Company, Parsonsburg, Md., a copartnership
Application November 29, 1947, Serial No. 788,902
7 Claims. (Cl. 119—72.5)



1. A poultry drinking valve comprising an elongated body having a cylindrical bore therethrough providing at one end a valve seat and at its other end at least one external peripheral shoulder, a valve stem of smaller cross-sectional area than that of said bore extending through said bore, said stem having at one end a valve head normally positioned in said seat, and said stem having at its other end an operating knob, said knob and said shoulder being in cooperative relationship and being spaced apart by a distance within the limit of the span of a fowl's open beak.

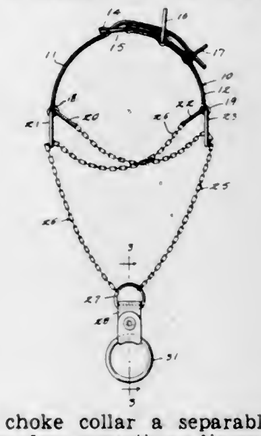
2,614,532
AUTOMATIC FLOAT-ACTUATED WATERING DEVICE FOR FARM ANIMALS
Frederick H. Steel, Chillicothe, Ohio
Application July 19, 1950, Serial No. 174,627
1 Claim. (Cl. 119—78)



In a livestock watering trough including an open top receptacle and a float-actuated valve for controlling the passage of water to said re-

ceptacle; a U-shaped receptacle-supporting frame including a bottom wall and upstanding side walls, the bottom wall of said frame being formed with a pair of longitudinally spaced and upwardly projecting ribs between which said receptacle is positioned to prevent relative transverse displacement between said frame and receptacle; and a cubical cover guard having a top wall arranged to extend over and transversely across said receptacle to cover said valve and the intermediate portion of said receptacle, said cover guard being formed with depending side wall members having a plurality of vertically arranged slots to receive the upper side walls of said receptacle and a pair of spaced parallel end walls for removable frictional engagement with the side walls of said frame, the side walls of said guard, when the latter is positioned on said frame, extending downwardly into said receptacle on either side of said valve.

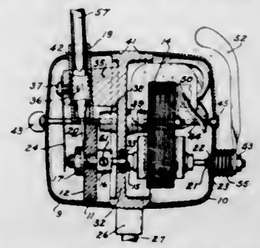
2,614,533
CHOKE COLLAR
Louis S. Elsinger, Atlanta, Ga., assignor to The Show Off Corporation, Dover, Del., a corporation of Delaware
Application October 23, 1950, Serial No. 191,709
3 Claims. (Cl. 119—106)



1. In a choke collar a separable two piece strap, means for connecting adjacent ends of the strap, a pair of rings on each of the opposed ends of the strap, a chain connected to one ring on one opposed end and passed through one ring on the other opposed end, a second chain connected to the other ring on said other opposed end and passed through the other ring on said one opposed end, and means connecting the unconnected ends of said chains together.

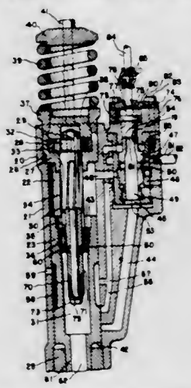
2,614,534
DRAFTING LEAD POINT SHAPER
Ewalt H. Rocks, Racine, Wis.
Application January 25, 1950, Serial No. 140,467
5 Claims. (Cl. 120—96)

1. In a shaper for pencil leads confined within a holder, a rotor having an annular lead reducing side surface generated by revolving a radial line disposed at an oblique angle relative to the rotor axis about said axis and also having an annular fillet surrounding said axis and merging with the inner edge of said surface, means for rapidly revolving said rotor about said axis, and a guide cooperable with said holder to direct each lead longitudinally and across said surface against said fillet, said guide having an abutment cooperable with the end of the holder to produce finished points of definite length and of predetermined shape each having a tip follow-



ing the fillet contour and a taper receding from said tip and following the contour of said surface.

2,614,535
CLEANSING DEVICE FOR ROCK DRILLS
William A. Morrison, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application October 4, 1947, Serial No. 778,013
6 Claims. (Cl. 121—10)

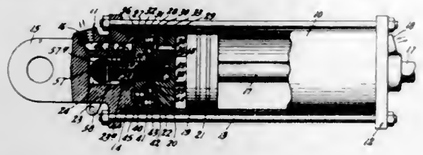


1. In a fluid actuated rock drill, the combination of a casing having a piston chamber, a piston reciprocable in the piston chamber, a passage in the casing for constantly conveying pressure fluid from a source of supply to one end of the piston chamber for actuating the piston in one direction, a valve chamber in the casing, an inlet passage leading from the valve chamber to the other end of the piston chamber, a valve in the valve chamber controlled by the piston for intermittently valving pressure fluid through the last mentioned passage into the said other end of the piston chamber for actuating the piston in the opposite direction, a drilling implement actuated by the piston, there being passages in the piston and the drilling implement in communication with the atmosphere and constituting the sole outlet for the fluid exhausted from said other end of the piston chamber, and valve means intermittently engaging the piston for controlling the flow of exhaust fluid through the last mentioned passages.

2,614,536
ADJUSTABLE STROKE HYDRAULIC MOTOR
Carlos B. Livers, North Hollywood, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 16, 1949, Serial No. 93,490
4 Claims. (Cl. 121—38)

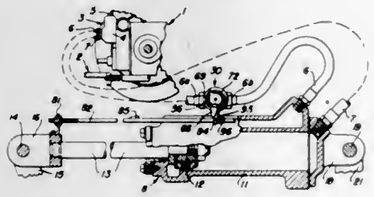
1. A hydraulic motor comprising: a cylinder having liquid ports at opposite ends for ingress

and egress of operating liquid; a working piston within said cylinder and means connecting it to an exterior device to be actuated; a floating piston in said cylinder; means defining a passage interconnecting the space between said two pistons with one end of said cylinder; valve means in said passage, said valve means being nor-



mally closed irrespective of pressures applied thereto to trap liquid between said pistons and maintain them in spaced-apart relation to thereby limit the stroke of said two pistons as a unit in said cylinder; and means for selectively opening said valve means to admit liquid to and from said space between said pistons and thereby vary the spacing between said pistons.

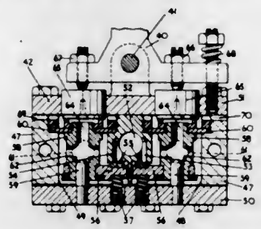
2,614,537
MEANS FOR REGULATING STROKE OF FLUID-PRESSURE APPARATUS
John H. Starr, Mayville, Wis., assignor to John Deere Van Brunt Company, Horicon, Wis., a corporation of Wisconsin
Application June 28, 1950, Serial No. 170,853
11 Claims. (Cl. 121—38)



1. In an agricultural implement having a part movable back and forth between different positions and a fluid motor unit connected to move said part, a valve controlling the flow of fluid to and from said unit, means biasing said valve for movement into an open position, a control member having a detachable connection with said valve, means acting through said control member for closing said valve when the part reaches a given position, and means operative when said part reaches said position for disconnecting said control member from said valve.

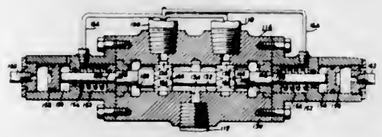
2,614,538
MANUALLY ADJUSTABLE PRESSURE REGULATOR
Cosby Donald Philipps Smallpeice, Swanwick Shore, near Southampton, England
Application October 2, 1948, Serial No. 52,576
In Great Britain October 3, 1947
5 Claims. (Cl. 121—46.5)

1. A pressure regulator including a diaphragm, a chamber bounded on one side by said diaphragm, an inlet valve by which the chamber can be supplied with fluid pressure from an appropriate source of fluid pressure, a slidably-guided member carrying said valve and connected to and passing through an opening in said diaphragm so that said valve will be controlled by the pressure in said chamber, said member having a bore in it communicating with the pressure in said chamber, and a controllable exhaust valve coacting with the bore of said member, such



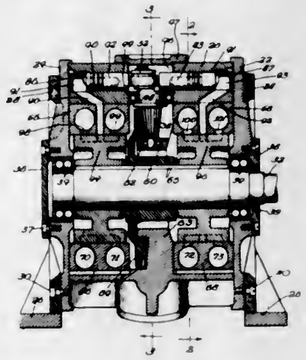
that the inlet valve remains closed while the exhaust valve is open and the exhaust valve remains closed while the inlet valve is open.

2,614,539
FLUID PRESSURE ACTUATED REVERSING VALVE FOR HYDRAULIC RAMS
Walter Ernst, Mount Gilead, Ohio, assignor to H-P-M Development Corporation, Wilmington, Del., a corporation of Delaware
Application December 7, 1946, Serial No. 714,840
4 Claims. (Cl. 121—46.5)



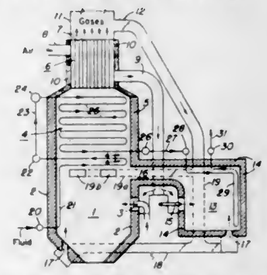
1. In a reversing valve for hydraulic rams; an elongated valve casing formed with an axial valve bore, a pressure inlet, a pair of service ports and exhaust ports, all of said ports intersecting the valve bore at relatively spaced intervals therealong; a spool-type valve member movable longitudinally within the valve bore and having a pair of relatively spaced spool portions arranged for wiping engagement with the walls of the casing defining the valve bore, and formed at their peripheral edges with a plurality of recessed grooves, said valve member being movable within the valve bore to a first centered position establishing restricted communication between the inlet port and the service and exhaust ports, and opposite end positions providing alternate communication between the inlet port and each of the service ports while connecting the opposite service port with exhaust, said valve member being provided at either end with longitudinally extended stem portions projecting outwardly from either end of the valve chamber and having shoulders thereon; cylinder means carried at either end of said valve casing and enclosing the stem portions of said valve member; a first piston means in said cylinder means engageable with the shoulders of said valve member and normally urging said valve member to its centered position, said piston means being in fluid communication with the service ports of said valve casing and being operable, in response to predetermined high pressures at said service ports, to prevent movement of said valve member from an end position past its centered position and toward its opposite end position until said predetermined high pressures are relieved; and pneumatically operated means in said cylinder means engageable with the stem portions of said valve member for shifting the latter between its end positions.

2,614,540
FLUID OPERABLE MOTOR EMBODYING ANNULAR SERIES OF OPPOSED COAXIAL CYLINDERS AND PISTONS
James E. Morton, Abilene, Tex.
Application August 9, 1946, Serial No. 689,605
3 Claims. (Cl. 121—119)



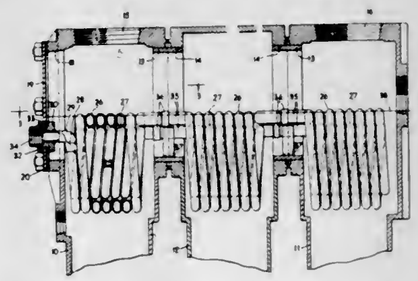
1. A motor operable by fluid under pressure, comprising: a casing including an annular member and sides, a shaft extending into and journalled in the casing, annular series of co-axial opposed cylinders in opposite sides of the casing, having axes substantially parallel with the axis of the shaft, the inner ends of one series of cylinders being spaced from the inner ends of the other series, pistons axially slidable in the cylinders, respectively, individual cranks, each carrying an element engaging the inner ends of opposed pistons, said cranks being disposed substantially at the longitudinal center of the casing, means on the central portion of the annular member of the casing for rotatably supporting the cranks; rings fixed at opposite sides of the casing, each provided with annular intake and outlet conduits for one series of cylinders; valve members in the rings rotatable with the shaft, provided with ports for controlling fluid to and from the cylinders; and means for driving said shaft from the cranks, disposed between the rings and said valve members.

2,614,541
HIGH TEMPERATURE FLUID HEATER
Wilbur H. Armacost, Scarsdale, and David M. Schoenfeld, New York, N. Y., assignors, by mesne assignments, to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application December 14, 1946, Serial No. 716,346
3 Claims. (Cl. 122—4)



1. In a method for heating a fluid under pressure to an elevated temperature in a heat exchanger fabricated of material including heat resisting and nickel-steel alloy tubing and exposed in part to combustion gas containing sulphur ingredients which at metal temperatures below a given range fail to substantially affect the nickel contained in said alloy tubing but which at metal temperatures above said given range enter into a chemical reaction with the nickel contained in said alloy rendering said alloy tubing unsuitable for service under high pressure and high temperature conditions; the steps which comprise flowing said fluid through the nickel-steel alloy tubing of a first portion of said heat exchanger while exposing said first portion tubing to said combustion gas sulphur ingredients, the cooling action of said fluid serving to maintain the metal temperature of said first portion nickel-steel alloy tubing below said given range whereby said combustion gas sulphur ingredients are substantially prevented from entering into chemical reaction with the nickel contained in said first portion alloy tubing; and flowing the partially heated fluid from said first portion tubing through the tubing of a second portion of said heat exchanger while exposing said second portion alloy steel tubing to combustion gas that is substantially free of the aforesaid sulphur ingredients and at elevated temperatures causing the metal temperature of said second portion alloy tubing to rise above said given range whereby said combustion gas is substantially prevented from affecting the strength and heat resisting qualities of said second portion alloy tubing.

2,614,542
INDIRECTLY HEATED COIL FOR BOILERS WITH VERTICAL SECTIONS
Anthony J. Donohue, Merion, Pa.
Application June 21, 1950, Serial No. 169,452
4 Claims. (Cl. 122—32)

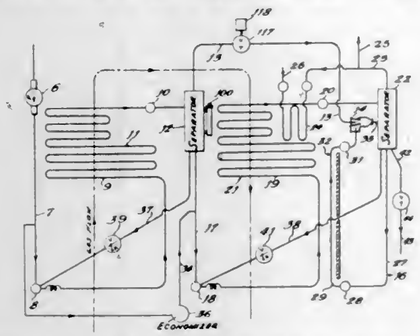


1. In domestic water heating apparatus for a sectional boiler with axially alined connecting members between the water spaces of the boiler sections, the combination comprising a mounting plate, an indirectly heated water heater connected to said plate for insertion through the connecting members and for axial positioning in offset relation to the axis of the connecting members, said water heater having a plurality of tubular water conducting coils each of a length for reception in a boiler section below the connecting members, said heater coils having tubular water conducting spacing connecting portions therebetween bridging said connecting members.

2,614,543
FORCED CIRCULATION BOILER
James W. Hood, Chicago, Ill.
Application April 1, 1947, Serial No. 738,680
13 Claims. (Cl. 122—407)

11. In a forced circulation boiler, a primary heating section interconnected with a primary

separator, a secondary heating section interconnected with a secondary separator, and a natural circulation type heating section having inlet and outlet conduits, an augment nozzle to supply



steam from said primary separator to said inlet conduit and means to vary the pressure drop between said primary and secondary separators, said means controlling steam flow in said nozzle.

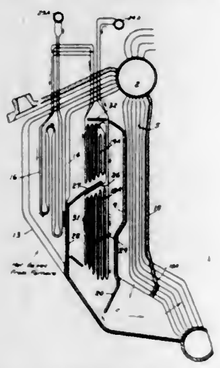
2,614,544

SUPERHEATER BAFFLING

Ward S. Patterson and Elno M. Powell, Chappaqua, N. Y., assignors to Combustion Engineering-Superheater, Inc., a corporation of Delaware

Original application October 20, 1943, Serial No. 506,922. Divided and this application February 28, 1946, Serial No. 650,971

2 Claims. (Cl. 122—480)



1. A steam generator comprising a water-cooled furnace with a gas outlet near its upper end; a steam superheater located adjacent to and in communication with the gas outlet and below the plane of the furnace roof including a multiplicity of parallel tubular fluid heating elements each comprised of substantially vertically disposed tubes interconnected by return bends to form a continuous path for steam flow; means at the lower end of said superheater constituting a path for discharge of said furnace gases after heat-imparting contact with said superheater tubes; means forming a by-pass around said superheater to by-pass part of the furnace gases and leading into the said superheater tubes' gas discharge path, said by-pass means comprising a rear wall that is separated from said superheater by said by-pass; a control damper at the outlet end of said by-pass and hingedly mounted at a point intermediate the said by-pass outlet and the lower end of said superheater and at a point remote from said rear wall; heat absorbing surface arranged in the by-pass and comprising a substantially vertically disposed bank of steam generating tubes having a lower portion extending below the elevation of the by-pass damper into the aforesaid discharge path of gases from said superheater and said by-pass; and baffle means extending from the lower end of said rear wall across the by-pass heating surface tubes above said discharge path and above said lower steam generating tubes portion to require flow of the by-pass gases past said damper so that when the damper is opened the gases from the superheater pass and those from the by-pass are mixed and subsequently passed over the surface of the said lower steam generating tubes portion.

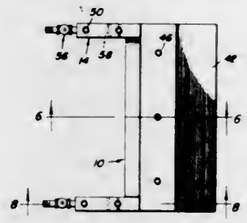
2,614,545

WATER-COOLED LINTEL AND SKEWBACK CHANNEL COOLER

Harry F. Nulph, East Liverpool, Ohio

Application December 30, 1949, Serial No. 136,086

2 Claims. (Cl. 122—499)



1. A lintel for furnace structures, said lintel comprising a hollow substantially U-shaped member including a body section and a pair of spaced parallel leg portions joined by said body section, said leg portions each having flat upper and lower horizontal walls and inner and outer vertical side walls, said body section also including flat upper and lower walls, said lower wall of said body section being coplanar with said lower walls of said leg portions and said upper wall of said body section being in a horizontal plane below a horizontal plane of the upper walls of said leg portions, said body section including a stepped rear wall having a vertically disposed upper portion, a vertically inclined rearwardly and downwardly sloping lower portion and a horizontal portion joining said upper and lower portions, inlet conduits extending downwardly through said horizontal portion, outlet conduits extending downwardly through the upper walls of said leg portions, said side walls of each leg portion having registering apertures therein, and sleeves fixed in said registering apertures and adapted to receive fasteners, whereby the lintel may be secured between the buck stays of a furnace structure.

2,614,546

INTERNAL-COMBUSTION ENGINE

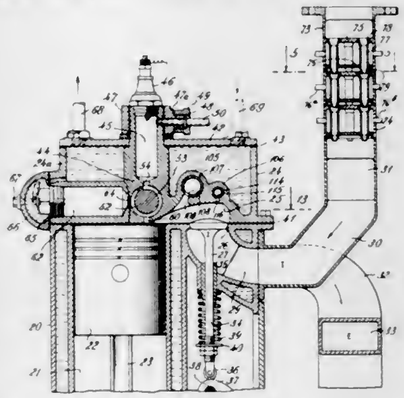
Alfred Schwarz, New York, N. Y., assignor, by mesne assignments, of sixty per cent to Sinclair Research Laboratories, Inc., Harvey, Ill., a corporation of Delaware

Application January 22, 1948, Serial No. 3,725

3 Claims. (Cl. 123—48)

1. In an internal combustion engine having a cylinder block containing a cylinder, a piston movably mounted in said cylinder and a throttle control means, the improvement which comprises a cylinder head mounted on said block over said cylinder, said cylinder head having a

first boss positioned over said cylinder, a rotary valve positioned within said first boss, said cylinder head having a first passage connecting said rotary valve with said cylinder, an extension member integral with and extending upwardly from said boss and defining a primary combustion chamber connected to said cylinder through said rotary valve and said first passage, charge igniting means positioned in said extension member, fuel injection means positioned in said extension member, said cylinder head having auxiliary end clearance chambers communicating with said rotary valve, means responsive



to throttle setting operably connected to said rotary valve for additively connecting said auxiliary end clearance chambers to said cylinder as the throttle setting is increased thereby reducing the compression ratio, a second boss formed in the cylinder head, a first rotary tube positioned within said second boss and having an opening therein, said cylinder head having a second passage therein connecting said tube with said cylinder, tube rotating means for rotating said tube, and means for supplying fluid medium to said tube for delivery to said cylinder during the combustion phase.

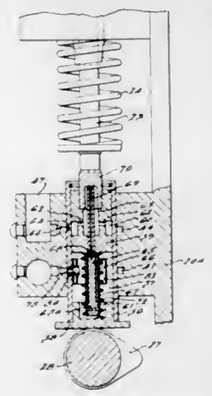
2,614,547

HYDRAULIC VALVE TAPPET OPERABLE TO VARY VALVE-LIFT AND VALVE-TIMING

Helmuth A. Meinecke, Grosse Pointe, Mich.

Application July 22, 1946, Serial No. 685,431

10 Claims. (Cl. 123—90)



1. A cam actuated valve mechanism for actuating the valve of an engine, comprising a pair of relatively movable members having upper and lower communicating chambers adapted to have a hydraulic medium interposed therebetween in said chambers, a support within which one of said members is reciprocable, inlet and outlet conduits in said support, ports in said reciprocable member adapted to communicate with said conduits to provide for relative movement of said members at one time and adapted to reciprocate relative to said conduits during reciprocation of said reciprocable member to vary said relative movement, means for checking the flow of the hydraulic medium in one direction from one of said chambers, and means within one of said members responsive to the temperature of the hydraulic medium for controlling the flow of said medium through said outlet conduit to compensate for viscosity change of said medium.

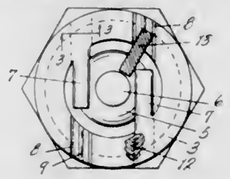
2,614,548

SPARK PLUG

Rex J. L. Dutterer, Stephen I. Johnson, and Anthony J. Hein, Hastings, Mich., assignors to Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan

Application August 1, 1949, Serial No. 107,876

11 Claims. (Cl. 123—169)



1. A spark plug including an insulator and an insulated electrode carried thereby and projecting centrally from its inner end, a tubular metallic shell for said insulator, the insulated electrode being supported centrally of and terminating within the shell, said shell having opposed pairs of aligned slots extending axially from and opening at its inner end edge, the planes of the pairs of slots being on opposite sides of the insulated electrode and laterally spaced therefrom, and ground electrodes disposed in diagonally opposite slots and with their inner ends within the shell and spaced from the aligned slots and in side overlapping relation to the insulated electrode and laterally spaced therefrom, said ground electrodes being within the shell and guarded thereby and adjustable toward or from said insulated electrode, the other diagonally opposed slots being open and facilitating the engagement of a tool with the electrode aligned therewith and the fulcruming of the tool on the edges of the slot with which it is engaged for adjustment of the ground electrodes toward or from the insulated electrode.

2,614,549

CYLINDER HEAD

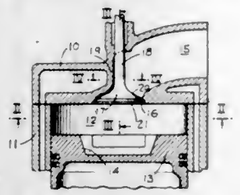
Paul S. Vaughan, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York

Application September 27, 1950, Serial No. 187,069

1 Claim. (Cl. 123—188)

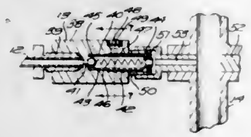
In combination, a cylinder head for a compression-ignition engine; an intake passage therein; an intake valve having a stem, a head, and a connecting shoulder therebetween; and a projecting portion on the passage wall shaped to conform to the valve stem and to the valve shoulder, said portion being disposed closely adjacent said

stem and shoulder when the valve is in seated position and extending across the intake passage normal to the direction of flow of the incoming



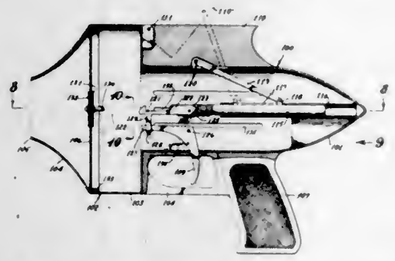
air and being thereby adapted to guide the course of the incoming air along the valve shoulder into the combustion chamber.

2,614,550
TOP CYLINDER LUBRICATOR
Henry L. White, North Providence, R. I.
Application October 19, 1949, Serial No. 122,346
1 Claim. (Cl. 123—196)



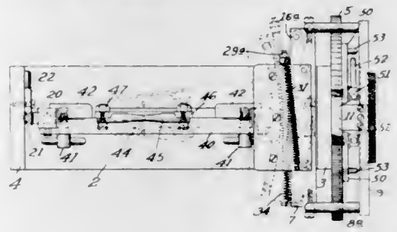
In a top cylinder lubricating system having a main lubricant reservoir, a cover on said reservoir having an inlet, a plug for closing said inlet, an air intake opening in said plug, a transparent feed chamber communicating with said reservoir and a manually adjustable needle valve for controlling the flow of lubricant from said reservoir to said feed chamber, said system being mounted at a point remote from the intake manifold of an engine, the combination of means adjacent the intake manifold of the engine for atomizing said lubricant and injecting it directly into the intake manifold, said atomizing means comprising a nozzle having an outlet adjacent the manifold, an air chamber surrounding said nozzle, said air chamber having an inlet continuously open to the atmosphere and an outlet surrounding said nozzle outlet, and a check valve in said nozzle for controlling the flow of lubricant, and a conduit connecting said atomizing means with said feed chamber.

2,614,551
TOY GUN
Thomas M. Shelton, Glendale, Calif.
Application June 14, 1946, Serial No. 676,657
6 Claims. (Cl. 124—1)



3. An air gun comprising a barrel having a muzzle end substantially smaller in diameter than the end opposite therefrom, a resilient diaphragm mounted transversely of said barrel, means for grasping and drawing said diaphragm rearwardly comprising an axially slideable bolt adapted to shift between a diaphragm engaging position and a diaphragm stretching position, a releasable diaphragm engaging latch connected to the bolt, a handle and a trigger adjacent the bolt and being in communication with the latch when the bolt and latch are in engagement with the diaphragm in diaphragm stretching position, said trigger when pulled being movable from a cocked position to a release position and adapted in release position to disengage the latch and release the diaphragm from the bolt.

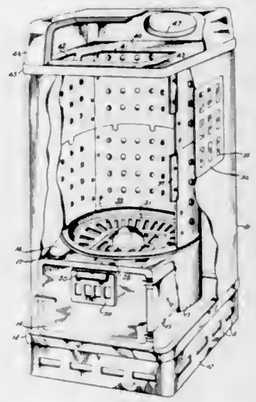
2,614,552
GRINDING WHEEL DRESSER
Cecil M. Griffin, Pittsburgh, Pa.
Application April 9, 1948, Serial No. 19,917
14 Claims. (Cl. 125—11)



1. A radius and angle dresser for grinding wheels comprising a base with upright head-stock and tail-stock portions at its ends containing bearing systems, said bearing systems having a common axis for rotation, said head-stock bearing system supporting a rotatable spindle in rigid alignment, a portion of the spindle projecting from the inner face of the head-stock, a rail rigidly attached crosswise of said spindle projection and rotatable with the spindle, a rotatable carrier frame extending between the rail and the tail-stock, a cutting nib adjustably mounted on the carrier frame intermediate the ends thereof, means connecting the carrier frame to the rail providing for coincidental rotation of the frame and the rail and also for sidewise movement of the end of the carrier frame along the rail to effect angular displacement of the carrier frame about its pivot axis in the tail-stock bearing system, said tail-stock bearing system functioning to provide support for the carrier frame in both rotational and angular displacement, a graduated scale on the headstock, handle means attached to said rail for rotating the rail and carrier and having an indicator thereon terminating adjacent said scale, a knob outside of the headstock and connected with the carrier, and means actuated by the knob for effecting angular movement of the carrier frame.

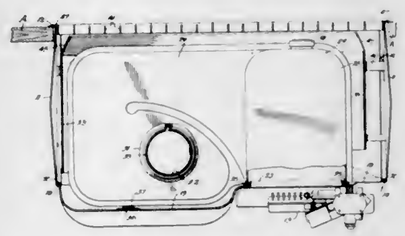
2,614,553
MAGAZINE HEATER
Ernest L. Cox and John W. Guice, Metropolis, Ill., assignors to Wilson Stove and Manufacturing Company, Inc., Metropolis, Ill., a corporation of Illinois
Application October 15, 1947, Serial No. 779,942
1 Claim. (Cl. 126—73)

A magazine heater comprising a base having a front side and a top wall, an upright ash pit defining member on said top wall having an open front cylindrical portion inwardly from and substantially concentric with the periphery of the base and laterally extending portions at the sides of the open front of the cylindrical portion terminating at the front side of the base, a grate ring supported by the cylindrical portion of said member, a tubular fire pot supported by said grate ring, said tubular fire pot including a plurality of segmental cylindrical perforated plates with offset flanges on diagonally opposite ends thereof for cooperating with flanges of the adjacent plate to form a continuous ring, said ring having lugs and lug recesses on opposed edges thereof for mating with an adjacent ring of plates, a jacket on said base surrounding said ash pit defining member and said tubular fire pot and having an opening in the front thereof aligned with the space between said laterally projecting portions of said ash pit defining member, a door for closing said opening, said ash pit



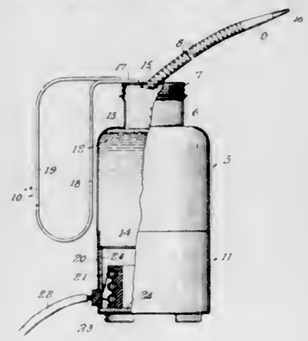
defining member and fire pot being in spaced relation from said jacket except at said opening, the space enclosed by said ash pit defining member between said laterally extending portions being in communication with the space between the jacket and tubular fire pot, a baffle on top of said jacket, a smoke hood on top of said baffle having a smoke outlet, apertures in said baffle connecting the space in the smoke hood with the space between the jacket and fire pot and with the fire pot for creating an updraft, and said updraft being effective to pull dust out of the ash pit chamber through said space between the laterally extending portions even when said door is opened, whereby ash dust will not be discharged through said opening in the jacket.

2,614,554
FLOOR FURNACE
Harry L. Giwosky, Wichita, Kans., assignor to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas
Application May 22, 1948, Serial No. 28,671
6 Claims. (Cl. 126—116)



1. In a floor furnace, separate side and end panels equipped with flanges for suspending them from the floor to provide a furnace casing open at its bottom, a burner, cooperating members on said burner and an opposed pair of panels for suspending the burner from said opposed pair of panels, at least some of said panels being provided at their bottom with inwardly turned flanges, a bottom wall equipped with downwardly turned flanges supported on said inwardly turned flanges of the panels and having an opening aligned with said burner, a combustion chamber casing resting on said bottom wall and having its inlet communicating with said bottom opening, an outlet flue extending through the panel casing and communicating with said chamber, a liner supported by said panels about said casing, and a grille extending between the tops of said panels.

2,614,555
STEAM GENERATOR
Gladys Marie Duckworth, Laguna Beach, Calif.
Application February 16, 1950, Serial No. 144,409
1 Claim. (Cl. 126—271.1)



A steam generator comprising a container for liquid and having a constricted open upper end, said end defining a shoulder with the adjacent portion of the container and said shoulder marking the level to which the container is to be filled with liquid, a heater at the lower end of the container for heating liquid therein to generate steam occupying said upper end, a closure cap for the upper end, a flexible spout terminating in a nozzle and carried by the closure cap for conducting steam outward of the chamber, and a handle, also carried by the closure cap and extending laterally therefrom in a direction opposite to that of the spout, whereby the generator is adapted to be manually supported from a point remote from the discharge of steam.

2,614,556
GUM MASSAGER
Martin Staunt, Des Plaines, Ill.
Application November 29, 1951, Serial No. 258,812
1 Claim. (Cl. 128—62)

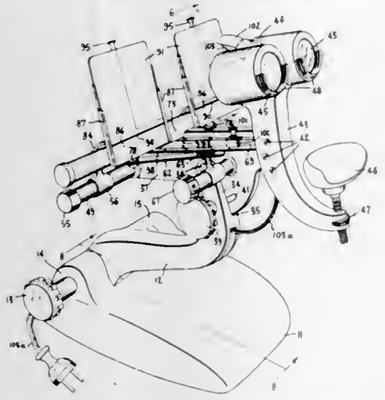
A gum massager comprising an elongated handle of sheet metal or the like having plane sides, and having a rounded end provided with an aperture substantially concentric with the end, said aperture being substantially cylindrical, and an interdental massaging member comprising an integral unit made of soft resilient rubber provided with a circular body having an annular surface for engaging one side of the handle, an integral cylindrical shank engaging in said aperture, and a rounded head adapted to be pushed through the aperture and to expand to engage the opposite side of the handle at said aperture, the said body having an acutely pointed elongated working end which is formed by a concave curved

surface of revolution so that the pointed end is sharp and small over a substantial portion of its length, due to said concavity, which permits its insertion into and through the interdental spaces,



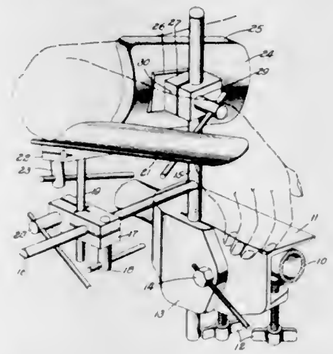
the said circular body having a larger radius of the said rounded end, with reference to the said cylindrical aperture so that said body projects beyond the rounded metal end to prevent the metal from engaging the gums or teeth.

2,614,557
OPHTHALMIC INSTRUMENT
Charles A. Ellis, Southbridge, Mass., and Henry B. Cole, East Woodstock, Conn., assignors to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application September 23, 1948, Serial No. 50,764
11 Claims. (Cl. 128—76.5)



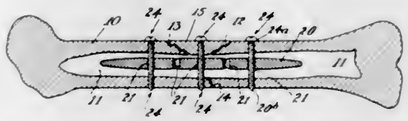
1. A device of the character described comprising a longitudinal support on which is slidably mounted a target holding device movable longitudinally thereof and carrying a pair of spaced targets representing the stereoscopic complement of each other, a lens carrying device mounted on said support for viewing said targets, and means on the support coacting with said target holding device and said targets for changing the spacing between the targets as the holding device is moved, said means comprising a pair of slide members mounted on the target holding device for movement normal to the direction of movement of the target holding device, resilient means urging said slide members toward each other, a guideway on said support adjacent each target having a pair of angularly disposed plane surfaces extending longitudinally thereof, and a roller carried by each of said slide members having a seat for engaging about said surfaces of a respective guideway under the action of said resilient means for simultaneously moving the targets toward or away from each other as they are moved respectively toward or away from the lens carrying device so as to cause the targets to follow paths disposed at angles in accordance with the angles at which the guideways extend with respect to said support.

2,614,558
FRACTURE SUPPORTING DEVICE
Edgar Sherburne Lovell, Brattleboro, Vt.
Application April 1, 1950, Serial No. 153,381
2 Claims. (Cl. 128—87)



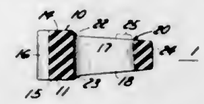
2. A fracture support comprising a main bracket adapted to be clamped to an operating table and having a vertical bore, a spindle adjustably mounted therein, a horizontal arm projecting from the spindle, a trough-shaped forearm rest adjustably mounted thereon and having a free end projecting into space, an upper arm rest mounted independently and adjustably on the spindle above the horizontal arm and presenting a substantially vertical concave face directed away from the free end of the forearm rest for resisting traction applied to the forearm.

2,614,559
INTRAMEDULLARY BAR
Herman H. Livingston, Bronx, N. Y.
Application September 6, 1950, Serial No. 183,340
2 Claims. (Cl. 128—92)



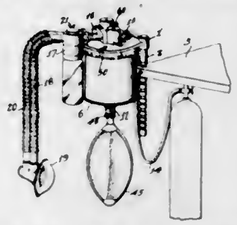
2. An intramedullary bar of metal having a resistance to longitudinal strains and stresses, and a length, width and depth less than the medullary cavity of a bone to which said bar is to be applied, of flattened shape with its width larger than its depth, and having a plurality of spaced bores extending entirely through the depth of said member, with at least one bore at each side of and beyond a bore substantially centrally of said other bores, said bores being adapted to be engaged by screws, each having a pointed entrance end and a headed other end, and of a length equal to the transverse length of said bone from its exterior to its exterior, said screws extending from each side of said member to the extent of the space between the exteriors of said member and the exteriors of said bone, said screws being adapted to engage the bone fractures with their pointed ends and be limited in movement by said headed ends, and said member when applied to said cavity being spaced between said member and the inner walls of said cavity, whereby said screws hold the fragments together and the member prevents rotation of the parts in respect to each other.

2,614,560
MOUTH-PROTECTING DEVICE
Hans P. Lee, Toledo, Ohio
Application November 2, 1950, Serial No. 193,569
6 Claims. (Cl. 128—136)



1. A mouth-protecting device composed of a resilient material and having an annular type configuration with a central hole, said configuration comprising: a thicker front handle portion, a thinner arcuate mouth insertable back portion, and two curved side parts connecting and merging into the ends of said two portions to provide said hole, said side parts and said arcuate portion tapering in thickness away from said handle portion.

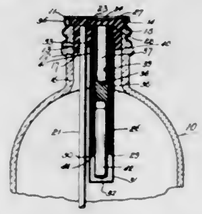
2,614,561
ABSORBER FOR ANESTHETIC GAS MACHINES
Le Roy G. Fox, Glendale, Calif., assignor to E & J Manufacturing Company, Glendale, Calif., a corporation of California
Application March 15, 1950, Serial No. 149,802
16 Claims. (Cl. 128—191)



1. In an absorber for an anesthetic machine, a head having a chamber, a port to said chamber for admitting an anesthetic, an outlet from said chamber adapted to be connected to a breathing mask, a barrel, a tube adapted to rotatively support said barrel in airtight relation to said head, said tube opening into said chamber, a spider in said barrel forming a plurality of cylinders open at their lower ends, canisters adapted to support a CO_2 absorber positioned in said cylinder, means for detachably supporting a canister in said cylinder, a passage in said head to port gas from said breathing mask, said passage being positioned to port air into one or more of said cylinders depending upon the position to which said barrel is rotated, means for porting the bottom of said cylinders into said tube, and an expandable diaphragm closing the lower end of said tube.

2,614,562
BLOOD TRANSFUSION FILTER UNIT
John E. B. Shaw, Chicago, Ill.
Application March 30, 1950, Serial No. 152,805
6 Claims. (Cl. 128—214)

1. A blood transfusion unit comprising a container adapted to hold blood and an anti-coagulant corrosive to metal, said container having an opening, a pierceable plug removably closing said opening, said plug having an opening in its bottom portion, a filter of metal mesh extending into the opening in said plug and anchored within said plug within said container, a bottom cap attached to the lower end of said filter, a tube having an open top, side walls with openings therein, a closed bottom and a rod extending below said closed bottom of said tube positioned within said filter with its open top substantially flush with the open top of said filter, and said rod extending through the bottom cap of said filter, a cover of material substantially resistant to the corrosive effect of the anti-coagulant, said



cover having an open upper end and a lower closed end, said cover spaced around said filter and having its upper end extending within the opening in said plug and removably held therein, said plug adapted to be pierced immediately above said filter by the adapter point of the conventional drip tube, said tube adapted to be moved downwardly against said cover for forcing the cover out of the opening in said plug for exposing said filter, said plug adapted to be pierced by an air supply member to permit the flow of liquid from the container out through the drip tube after the liquid in said container has been filtered by said filter before leaving said container and passing into the adapter.

2,614,563
SURGICAL APPARATUS FOR INTESTINAL INTUBATION
John W. Devine, Jr., Lynchburg, Va.
Application April 10, 1951, Serial No. 220,257
1 Claim. (Cl. 128—276)



An intestinal intubation apparatus, comprising an outer tube having a closed end, said outer tube having groups of openings extending through the wall thereof, the groups of openings in the wall of the outer tube adjacent to the closed end thereof being spaced from the closed end providing a sump at the closed end of said outer tube, said outer tube adapted to be inserted in the intestinal tract, an inner tube of semi-rigid plastic material extending into the outer tube, the walls of said tubes being spaced apart

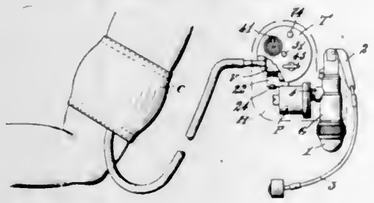
providing an annular passageway around said inner tube, said inner tube terminating at a point a substantial distance beyond the openings adjacent to the closed end of the outer tube, a coupling fitted in one end of the outer tube through which the inner tube extends, said inner tube communicating with the atmosphere through said coupling, a branch tube extending from said coupling to which a suction tube is secured, and through which air is drawn creating a suction in the inner tube, venting said outer tube.

2,614,564
LIGATURE APPLYING INSTRUMENT
Mario Ciriaco Liberato Giaccaglia and Rodolfo Alejandro Mudry, Buenos Aires, Argentina
Application January 14, 1949, Serial No. 70,872
4 Claims. (Cl. 128—326)



1. In a ligature applying instrument, a central bar, a knot abutting loop on said central bar and extending forwardly therefrom, a pair of arms respectively disposed on the opposite sides of said central bar, means pivotally mounting said arms in co-planar relationship on the central bar, thread guiding means on the forward ends of said arms, and handles on the rear ends of said arms, operable when drawn toward each other to force the forward ends of said arms and the thread guiding means apart to draw taut the ends of a thread tied into a knot beneath the knot abutting loop and trained over said thread guiding means.

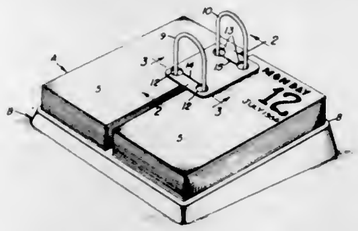
2,614,565
AUTOMATIC TOURNIQUET
John K. Packer, Norton, Mass.
Application May 17, 1951, Serial No. 226,811
6 Claims. (Cl. 128—327)



1. A device for regulating blood circulation with an inflatable cuff applied to a patient comprising a conduit having an inlet for connection to a suitable source of gas and an outlet for connection to the cuff, pressure regulating means in said conduit which opens to admit gas to the cuff when the pressure in the cuff falls below a predetermined value, a valve communicating with the cuff to relieve the pressure in the cuff, and a timer associated with the valve for actuating the valve periodically, whereby the flow of blood is normally impeded but periodically permitted to flow.

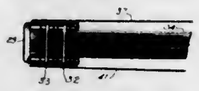
2,614,566
LEAF HOLDER FOR DESK CALENDARS
Walter H. McConnaughy, Washington, D. C.
Application March 13, 1950, Serial No. 149,311
2 Claims. (Cl. 129—4)

2. In combination, a desk calendar embodying a base, a memorandum pad mounted on said base, and first and second longitudinally spaced transfer arches, each having a bight portion and a pair of legs, and extending upwardly from said base and threaded through correspondingly spaced openings in the leaves of said pad, whereby the leaves may be successively turned from one half of the base to the other half thereof, and a relatively stiff flexible rectangular sheet having first and transverse end portions, said first end portion having a first pair of openings and a first slit interconnecting said openings, said second end portion having a second pair of



openings and a second slit interconnecting said second openings, the legs of said first arch being passed through said first openings, the legs of said second arch being passed through said second openings, an edge portion of each opening opposite the slit adjacent thereto frictionally engaging a corresponding portion of the leg adjacent thereto whereby said sheet may resist upward movement of the leaves, said sheet normally resting on contiguous portions of said leaves to prevent turning of the leaves, said sheet being of a length and width substantially less than a quarter of the length and width of said calendar.

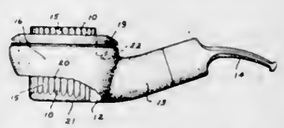
2,614,567
BINDER
Edward C. Kinney, Chicago, Ill.
Application June 21, 1949, Serial No. 100,497
1 Claim. (Cl. 129—36)



A binder for loose sheets comprising a pair of opposite outer portions, a pair of spaced intermediate portions adjacent and integral with said outer portions, and a central portion between and integral with said intermediate portions, horizontally spaced longitudinally extending scores separating said intermediate portions from said outer portions and from said central portion, the upper and lower edges of each of said outer portions having a pair of horizontally spaced longitudinally extending slots, said outer portions bent inwardly on the scores between them and said intermediate portions, said intermediate portions bent inwardly on the scores between them and said central portion, so that said outer portions are opposite each other, and a pair of rubber bands extending around said outer portions and positioned within said slots, and contacting the outer surface of said outer portions to move opposite outer portions into contact, said intermediate portions covering said rubber bands, said bands adapted to be stretched to permit said outer portions to part to receive the inner edges of a plurality of loose sheets therebetween and to contract to hold the inserted sheets, and integral front and back covers, each cover having an inner

portion adjoining and integral with an outer portion of the binder and a major portion integral with an inner portion of the cover, a longitudinal score between each inner portion of the cover and adjoining outer portion of the binder, each cover bent inwardly on said score so that said inner portion of the cover extends along and is coextensive with said outer portion of the binder, and a longitudinal score between each inner and major portions of the cover, each cover bent outwardly on said score and extending horizontally beyond the binder and of sufficient size to cover the inserted sheets.

2,614,568
SMOKER'S PIPE
Bernard Batty, Indianapolis, Ind.
Application May 29, 1950, Serial No. 164,888
1 Claim. (Cl. 131—196)



A one piece wood, smoking pipe comprising a generally cylindrical bowl having an external flat area across its under side; an integral stem attaching portion extending from one side at the lower end of the bowl, the under side of the stem portion merging into the bowl so that the stem portion under side lies in the plane of said area; said bowl being externally, vertically fluted to define projecting sharp ribs and concave surfaces therebetween; and a wood shell surrounding said bowl in spaced relation thereto, said shell terminating by a lower, substantially knife-edged portion from which the shell increases in thickness upwardly to its top upper portion to give a cross-sectional wedge shape; said shell being internally, substantially cylindrical and vertically fluted around its internal surface to define sharp ribs radially spaced from said bowl ribs and bounding concave surfaces therebetween, the shell ribs being in planes radial of the axis of said bowl to include said ribs of the bowl; said shell top edge portion being in a plane below the top edge of said bowl, and said shell having a circumferential lower edge extending around the front and to the sides of the bowl and lying in a plane substantially parallel to said top edge portion plane, the remainder of said shell lower edge sloping from said length on the respective pipe bowl sides, around and downwardly into said stem portion to terminate therein at said bowl area plane; said shell circumferential edge being spaced well above said bowl under side area; and said shell merging into and being supported by said stem attaching portion; said shell and said bowl defining therebetween a circumferential chamber essentially around a central band portion of said bowl, a lower portion of said chamber extending to said stem portion so as to expose the lower portion of the inner bowl section in the front and on the sides only.
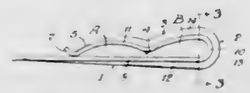
2,614,569
COMB
James T. Harris, Greensboro, N. C.
Application June 1, 1951, Serial No. 229,361
4 Claims. (Cl. 132—11)

4. In a comb, a body having a groove therein, one side of the body having a section of coarse teeth and a section of fine teeth, said section of



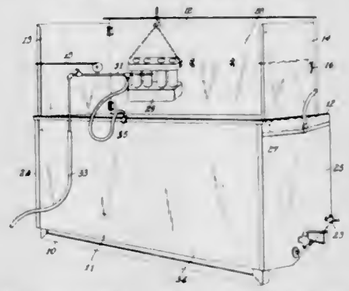
fine teeth extending around one end of the body to the other side of the body.

2,614,570
HAIRPIN
Frank Gordon Hall, Chicago, Ill.
Application May 10, 1952, Serial No. 287,186
1 Claim. (Cl. 132—50)



In a hair pin comprising long and short legs joined at one end by a continuous spring loop, the short leg beig spaced from the long leg for the major portion of its length, and having a terminal portion inwardly inclined toward the long leg, an intermediate portion of said terminal portion being normally held against the long leg by the tension of the spring loop to maintain said major portion of the short leg in spaced relation with the long leg, the extreme end of said terminal portion of the short leg being bent outwardly away from the plane of the long leg, the long leg extending beyond the end of the short leg a distance to permit flatwise pressure of the finger of the user upon said long leg without contact with the short leg, the combination of a continuous rib formed integrally with and extending centrally along the outer faces of said long leg, loop and short leg, the said legs, loop and rib being of sufficient flexibility to permit the legs to be readily spread apart by the fingers of the user, said rib being of maximum height adjacent the loop and tapering in height towards the free ends of the long and short legs, said hairpin being made of molded plastic material.

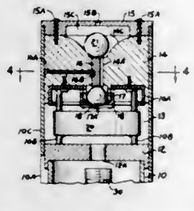
2,614,571
TANK AND SPRAY UNIT FOR CLEANSING
Alexander J. Turpin, Stewart Manor, N. Y., assignor to Hauck Manufacturing Company, Brooklyn, N. Y., a corporation of New York
Application March 19, 1946, Serial No. 655,512
2 Claims. (Cl. 134—61)



1. The combination with a cleansing tank comprising bottom, front and rear, and side walls to afford an open container for a cleansing liquid; a lid member for the tank hinged at the rear wall, and end wing members secured to opposite ends of

the lid member to fold thereunder, together with manually operable latching elements to attach the wing members to the under face of the lid member when the latter closes the tank and adapted for release of the wing members when the lid is in elevated position, said wing members being adapted then to be extended outwardly therefrom substantially into the respective planes of the side walls to provide with the lid member a spray shield; of a spray unit, having means for removably supporting the same over the upper edge of the front wall of the tank, whereby to cleanse an article elevated out of the interior of said tank and suspended in the space above the same and within the partial enclosure defined by said shield, which latter confines substantially within the said space spray from the spray unit directed to said elevated article.

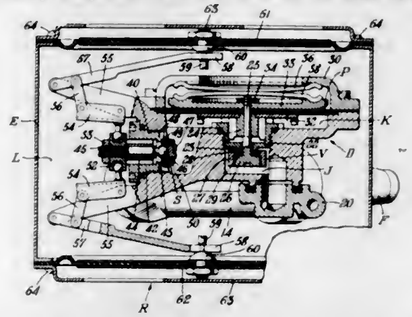
2,614,572
INSTRUMENT FOR DETERMINING RELATIVE LEVELS
Joseph John Wisney, Adrian, Mich.
Application March 12, 1949, Serial No. 81,070
1 Claim. (Cl. 137—39)



In an instrument for determining the relative height of two surfaces, a vertically arranged cylindrical vessel adapted to contain liquid, means for varying the liquid level therein, a closure for the upper end of said vessel adapted to prevent overflow of said liquid, said closure including a chamber in open communication with the top of said vessel and enclosing a float, a passage leading from said chamber from a point directly above said float, a valve for said passage, spring means within said chamber and tending to close said valve and a weighted member adapted to overcome the spring means and maintain said valve in open position when said vessel is in upright position but adapted to be displaced when said vessel is in horizontal position whereby to allow said spring means to close said valve, said float, upon admission of sufficient fluid to said chamber to lift it to its uppermost position, contacting said spring means and enabling the latter to close the valve.

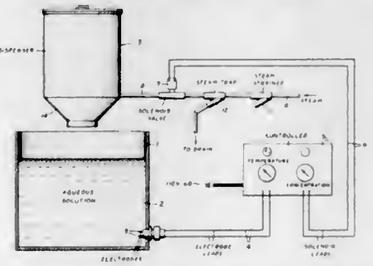
2,614,573
AIRCRAFT BREATHING OXYGEN REGULATOR
Wilgot J. Jacobsson, Plainfield, James A. Hoffman, Roselle, and Samuel R. Oldham, West Orange, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application May 5, 1945, Serial No. 592,212
6 Claims. (Cl. 137—64)

1. At least a two stage fluid pressure regulator comprising a body having therein at least two pressure responsive valves, a low pressure chamber enclosing said body and having diaphragms in and constituting opposite walls of said chamber, mechanism responsive to movement of said pair of diaphragms for controlling a low pressure valve in said body, a higher pressure diaphragm in said body, a higher pressure valve in said body responsive to movement of said higher



pressure diaphragm, said higher pressure diaphragm being located between said first mentioned diaphragm and generally parallel to them.

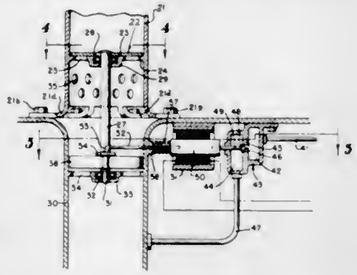
2,614,574
CHEMICAL FEEDER AND METHOD OF FEEDING
James Kenneth Farrell, Syracuse, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application April 12, 1948, Serial No. 20,578
11 Claims. (Cl. 137—93)



1. A method for dispensing a controlled amount of hygroscopic solid which comprises introducing steam in contact with a hygroscopic solid of high solubility at higher temperatures in water maintained in a container and supported upon a perforated member, regulating the amount of steam introduced in accordance with the amount of said solid desired to be dispensed, whereby a concentrated aqueous solution of said solid is produced and flows through said perforated member, and upon termination of steam introduction solidifies on said perforated member terminating flow of aqueous solution therethrough, said dispenser being adapted to dissipate heat to cause drop in temperature and solidification of aqueous solution on perforated member, withdrawing said concentrated solution by gravity through an outlet in said container, and maintaining a continuous open passageway from the perforated member through the outlet of the container during discharging and non-discharging periods of dispensing concentrated solution.

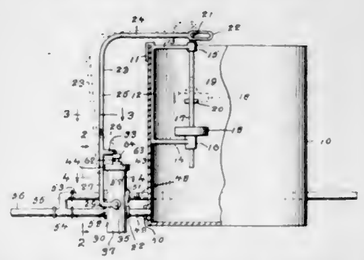
2,614,575
TEMPERATURE CONTROLLED OIL SYSTEM
Raymond W. Jensen, Los Angeles, Calif., assignor to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application January 25, 1946, Serial No. 643,269
12 Claims. (Cl. 137—110)

12. In a lubricant conditioning and control means: a reservoir for lubricating fluid, said reservoir having an inlet and an outlet; a hopper in said reservoir operably located between the inlet and the outlet thereof; means for conveying overflow oil from the upper end of the hopper to remote parts of the reservoir; temperature responsive means, including a valve adjacent the lower end of said hopper, for con-



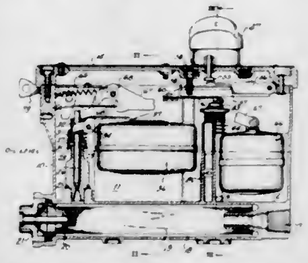
trolling the flow of fluid therethrough; and means for diluting the outflowing oil comprising a valve for controlling the introduction of diluting fluid and a connection between said valve and the valve adjacent the lower end of the hopper whereby the latter is moved to an open position when the dilution valve is open.

2,614,576
AUTOMATIC FLOAT TRANSFER VALVE
Cornol W. Taylor, Holdenville, Okla.
Application August 17, 1950, Serial No. 179,926
4 Claims. (Cl. 137—122)



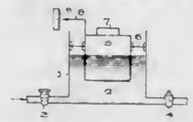
1. An apparatus of the kind described, comprising a fluid storage tank, a float operating therein, a valve housing, a flow diverting valve means within the housing and having a pair of fluid passages therein, flow diverting pipes communicating with the housing, one pipe leading into the tank, each of said pipes being adapted to be alternately placed in communication with said passages, respectively, spring means in said housing forcing said valve means in one direction for placing one of said passages in communication with one of said pipes, an operating lever pivoted on said housing adapted to hold said valve means down against the action of the spring into a position to maintain the second of said passages in communication with the other of said pipes, an operating connection between the float and the lever and operated by the float for releasing said lever so that said spring will move said valve means into said first position to open said first passage and close said second passage and means for varying the action of the float and said operating lever is provided on its lower end with a yoke and said yoke is provided with right angularly extending extensions thereon which are pivotally mounted on the opposite sides of said housing.

2,614,577
VISCOSITY COMPENSATING LIQUID CONTROL DEVICE
William A. Biermann, Milwaukee, Wis., assignor to A P Controls Corporation, a corporation of Wisconsin
Application February 28, 1946, Serial No. 650,982
5 Claims. (Cl. 137—389)



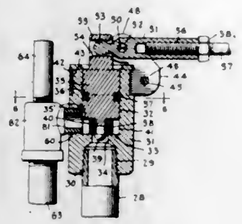
1. In a fuel control device having an inlet valve actuated by a float to maintain a desired oil level in a casing having an outlet adapted for connection to a burner, the float comprising a generally cylindrical hollow body, the ends of which comprise flexible diaphragms structurally formed to define a predetermined variable rate of flexure in response to pressure variations within the float, a vaporizable charge in said float for varying at a predetermined rate the pressure in the float in response to temperature changes, the rate of flexure of said diaphragms being correlated with the rate of variation in the viscosity of the oil and with the rate of variation in the vapor pressure of said charge in response to changes in temperature respectively, so that the resulting changes in the displacement of the float will vary the level of the oil within the casing to provide a substantially constant rate of oil flow from the casing outlet regardless of variations in the viscosity of the oil due to temperature change.

2,614,578
BUOYANCY TYPE LIQUID METERING DEVICE
Wilder C. Stickney, Penn Township, Allegheny County, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
Application January 24, 1951, Serial No. 207,635
22 Claims. (Cl. 137—391)



22. A buoyancy type liquid metering device comprising a reservoir, a liquid flow line in communication therewith, a float having a limited vertical movement within said reservoir in response to the buoyancy of reservoir liquid, means for temporarily applying a predetermined downward force to said float, means for sensing a free floating position of said float, both with said force applied at one liquid level and without said force at a lower liquid level, means in said flow line for controlling flow therethrough and thereby causing variations in liquid level within said reservoir, and sensing means for determining the respective free floating positions of said float, whereby the predetermined quantity of liquid between the free floating positions of said float may be metered.

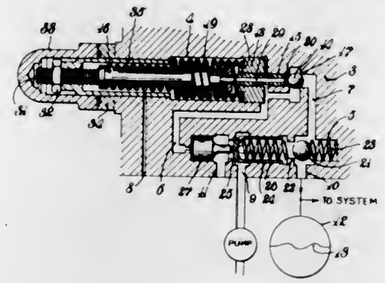
2,614,579
FLOAT OPERATED VALVE
Thomas E. Crockett, Corpus Christi, Tex., assignor, by mesne assignments, to Crockett Valve Corporation, Los Angeles, Calif., a corporation of California
Application June 6, 1950, Serial No. 166,423
1 Claim. (Cl. 137—444)



A float operated valve for a toilet flush tank, comprising an upstanding water supply pipe arranged within the tank, an upstanding relatively short unitary valve casing mounted upon the upper end of the water supply pipe and having a longitudinal main cylindrical bore extending through its upper end and an internal shoulder at its lower end, said shoulder having an opening leading into the bore, said casing having its lower end provided with a screw-threaded recess for receiving the screw-threaded end of the upstanding water supply pipe, said casing being provided in its side with an outlet opening, said casing being provided adjacent to its upper end with an annular recess, a cylindrical piston slidably and rotatably mounted within said bore, an upper extension carried by the upper end of the piston and projecting above said casing and having an opening formed therein extending through one side of the upper extension, a lower reduced extension formed integral with the lower end of the piston and provided at its free end with an enlarged head, an annular elastic compressible valve element surrounding the lower reduced extension and held in place by said enlarged head and adapted to engage the shoulder and cover the opening in the shoulder, a split ring rotatably mounted within the annular groove for circumferential adjustment therein, means to draw the ends of the split ring inwardly to clamp the ring to the casing, upstanding knuckles carried by the ends of the split ring, and a lever arranged between the knuckles and pivotally and removably connected therewith and having its end extending into the opening of the upper extension.

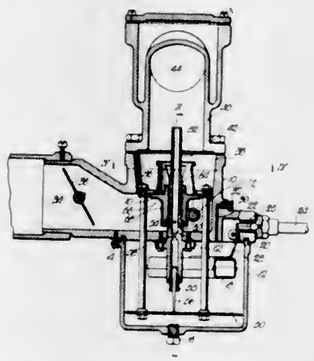
2,614,580
UNLOADING VALVE
Gerard A. Cormier, Springfield, Vt., assignor to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application July 17, 1947, Serial No. 761,599
5 Claims. (Cl. 137—474)

1. A fluid controlling valve comprising a valve casing having a bore therein, a first annular valve seat in one end of said bore, a second annular valve seat in said bore opposite said first valve seat, a ball between said valve seats and alternately engageable therewith, a hollow stem extending axially of the bore and engaging said ball, first spring means urging said stem against said ball to seat the latter against said first valve seat, second spring means normally urging said stem against said ball to seat the latter against said first valve seat, and a passageway communicating between said first valve seat and the chamber in which said first spring means and



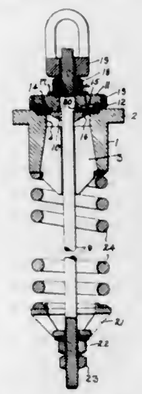
said second spring means are located when said ball leaves said first valve seat.

2,614,581
CARBURETOR WITH AUTOMATIC AIR FEED CONTROL
Andrew Craig Russell, Shawnee, Okla.
Application August 2, 1948, Serial No. 41,933
3 Claims. (Cl. 137—481)



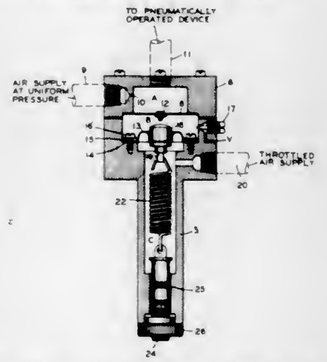
1. In a carburetor, a case having an air passage therethrough and provided with an inlet end and an outlet end; valve structure within said air passage and including a rotatable, valve-supporting member; means for rotating said member; an elongated cylinder on the member between the latter and said outlet end of the air passage, one end of the cylinder proximal to the said outlet end of the air passage being open and its opposite end being closed by said member and an annular valve circumscribing said cylinder and slidably mounted thereon for reciprocable movement on the longitudinal axis of the cylinder toward and away from a position resting on said member; a plurality of notches formed in said member and in said valve respectively, the notches of the member being registrable with corresponding notches of the valve when the valve is resting on the member and upon rotation of the member to a predetermined position relative to the valve to present a number of ducts for flow of air from said inlet end to said outlet end of the air passage; and a plurality of elongated side openings formed in said cylinder and having their longitudinal axes extending longitudinally of the cylinder, the width of said openings progressively increasing as said open end of the cylinder is approached.

2,614,582
PRESSURE SEALED RELIEF VALVE
Theodore A. St. Clair, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 6, 1947, Serial No. 766,704
2 Claims. (Cl. 137—512)



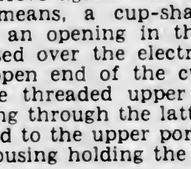
1. A relief valve comprising a member having two concentric seats, a spring-loaded disk engaging one of said seats, said disk being mounted on a longitudinal rod and held in place by a shoulder on said rod, a cap member carrying an inner annular ring contacting said disk and a second outer annular ring, a sealing ring engaging said first mentioned disk, said sealing ring being held between the two annular rings of said cap member, the two annular rings and the sealing ring forming a chamber which is closed by said spring-loaded disk, an orifice extending through said spring-loaded disk into said chamber to supply pressure fluid to said chamber to force said sealing ring into sealing engagement with the outer one of said concentric seats when said sealing disk engages the inner one of said concentric seats.

2,614,583
PILOT RELAY VALVE
Samuel S. Di Maggio, Jr., Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application August 18, 1949, Serial No. 110,985
6 Claims. (Cl. 137—688)



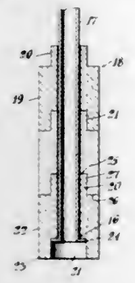
1. In a device of the class described, a hollow body, means including a plate and a flexible diaphragm spaced therefrom dividing said body into a primary chamber, a secondary chamber and a tertiary chamber, a source of pressure fluid at a predetermined pressure connected to the primary chamber through a restricted passage, said plate having an orifice therein larger than said restricted passage and permitting communication between said primary and secondary chambers, a member carried by said diaphragm and movable thereby into positions to open and close said orifice, means for supplying pressure fluid into said tertiary chamber at a pressure throttled in accordance with a given variable, said secondary chamber being provided with a restricted vent to the atmosphere of such size relative to said orifice that a substantial back pressure is provided in said secondary chamber when said orifice is open, and an output pipe communicating with said primary chamber.

2,614,584
SOLENOID ACTUATED VALVE
George A. Goepfrich, Stamford, Conn., assignor to The Skinner Chuck Company, Norwalk, Conn., a corporation of Connecticut
Application May 23, 1947, Serial No. 749,991
2 Claims. (Cl. 137—729)



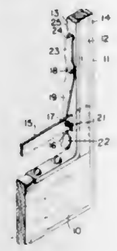
1. A valve mechanism comprising a base having a cylindrical recess opening in one surface thereof and having three concentric portions of different diameters comprising an uppermost portion of largest diameter opening in said one surface, an intermediate portion of intermediate diameter extending from the bottom of the uppermost portion, and a lowermost portion of smallest diameter extending from the bottom of the intermediate portion, a first port in said base communicating with the intermediate portion, a valve seat positioned in the lowermost portion to co-operate with the end face of the hereinafter mentioned plunger, a second port communicating with the intermediate portion through said valve seat, a bushing threaded into the uppermost portion, a cylindrical sleeve of non-magnetic material fixed at its lower end into said bushing, a cylindrical plug of magnetic material closing said sleeve at its upper end, the upper end of the plug protruding from the sleeve and being threaded, a cylindrical plunger of magnetic material coaxial with said plug longitudinally movable within said sleeve between said base and plug, a shading ring coaxial with said plug in the end face of said plug facing said plunger, a recess and resilient valve closure member therein in the end face of said plunger facing said valve seat for engaging said valve seat to close said second port when said plunger is at the end of said sleeve adjacent said valve seat, spring means between said bushing and plunger normally biasing said plunger toward the lower end of said sleeve, and an electromagnetic coil surrounding said sleeve which when energized moves said plunger toward the upper end of said sleeve against the biasing force of said spring means, a cup-shaped cylindrical housing with an opening in the center of its bottom inverted over the electro-magnetic coil so that the open end of the cup rests on the base with the threaded upper portion of the plug protruding through the latter opening, and a nut threaded to the upper portion of the plug outside the housing holding the housing against the base.

2,614,585
COMPOSITE PIPE
James B. Wagstaff, Ridgewood, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application January 22, 1948, Serial No. 3,726
3 Claims. (Cl. 138—64)



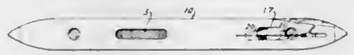
1. Apparatus for feeding gas into a bath of molten metal beneath the surface thereof, comprising a metal conduit through which the gas flows and discharges from the free end thereof into the molten metal, a high-temperature, heat-resistant refractory covering protecting the portion of said conduit in the vicinity of said free end, said covering consisting of a plurality of identical sections positioned in abutting relationship on said conduit, each of said sections having a bore running the full length thereof through which said conduit passes, each section having at one end thereof a projecting portion of reduced cross-sectional area as compared with the cross-sectional area of the body portion of said section and a recess complemental in shape to the projecting portion at the other end thereof, the length of said projecting portion and of said recess being at least about as great as the thickness of said body portion of said section, the recess of the terminal section disposed at said free end extending beyond said free end and the projecting portion of said terminal section being positioned within the recess of the contiguous abutting section, and means on said free end for maintaining the sections of said covering on said conduit, said means being of a configuration that fits well within said recess of said terminal section.

2,614,586
LOOM HARNESS
John Jacob Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 19, 1948, Serial No. 60,908
4 Claims. (Cl. 139—92)



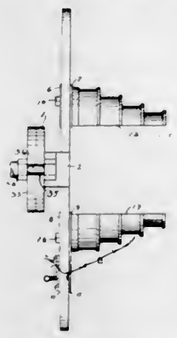
1. In a loom harness heddle frame comprising top and bottom rails connected by end struts and having heddle supporting rods mounted therein, the means for securing the heddle supporting rods in the frame comprising thin flat metal spring members pivotally mounted intermediate their respective ends at fixed locations on the end struts, said spring members each having a normally stressed arm portion flexible in its axial plane but substantially rigid in a plane transverse to its axis and with a part normally in engagement with the end portion of the heddle supporting rod but adapted to be swung sidewise on its pivotal axis out of the plane of the heddle rod and thus be disengaged from the end portion thereof, and another flexible arm portion on the other side of the pivot having a part engaging a part of the end strut when the securing member is in the operative position thereby serving to hold the spring member normally against pivotal movement but adapted to be released from such engagement to permit the sidewise movement on the pivotal axis.

2,614,587
THREAD SUPPORTING MEANS FOR SHUTTLES
Walter E. Burcham, Elkin, N. C.
Application February 12, 1951, Serial No. 210,450
5 Claims. (Cl. 139—196)



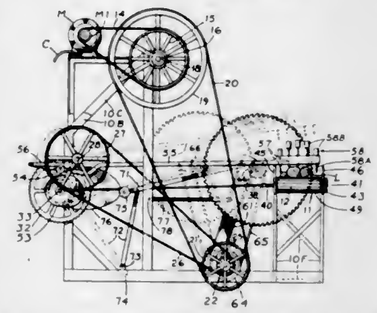
1. A shuttle having means for supporting a bobbin therein and having a shuttle eye through which the filling thread from the bobbin extends and having a slot in one of its side walls for the accommodation of thread cutting means, means for maintaining the outgoing filling in substantially taut condition across said slot comprising a pair of members, there being one member disposed at each end of the slot and having a napped or soft fibrous surface to which the filling will adhere and to thus maintain the filling in substantially straight condition across said slot.

2,614,588
COIL WINDING REEL ASSEMBLY
Ernest H. Laycock, Tampa, Fla.
Application November 10, 1947, Serial No. 785,095
1 Claim. (Cl. 140—92.2)



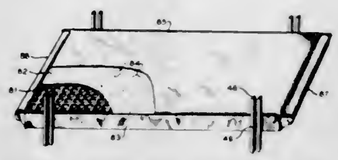
A reel assembly comprising a base rotatable about an axis, a pair of parallel bars supported by the base and forming a guideway, a pair of perforated blocks slidable longitudinally of the bars for adjustment thereon at one side of the axis of rotation, the blocks having flanges engaging opposite faces of the bars, a stepped winding form having a threaded stud in its base passing through the perforations in the pair of blocks, and a nut engaging the stud, the spaces between the flanges of the blocks being less than the thickness of the bars, whereby the blocks will be clamped to the bars when the nut is tightened on the stud, a second pair of perforated blocks slidable on the bars on the other side of the axis of rotation from the first mentioned pair, a stepped winding form having a threaded stud in its base passing through the perforations in the second pair of blocks and a nut engaging the stud, the blocks having flanges on opposite faces of the bars, the spaces between the flanges being greater than the thickness of the bars, whereby the blocks are free to slide upon the bars when the nut is tightened on the stud of the form secured to the slidable blocks, and operating means for the slidable blocks movable in one direction to cause a sliding movement of the blocks and their stepped form toward the fixed form, and movable in the reverse direction to cause a return of the stepped form to a predetermined operative winding position.

2,614,589
AUTOMATIC INTERMITTENT FEED-AND-CUT MACHINE FOR SAWING FIREWOOD
Raymond C. Coats and Dallas R. Coats, Effingham, Ill.
Application March 21, 1951, Serial No. 216,724
1 Claim. (Cl. 143—46)



An automatic machine for handling and sawing logs comprising a unitary frame assembly having an elongated substantially rectangularly shaped and horizontally disposed main frame portion, a secondary frame portion having a relatively narrow and elongated shape formed integral with and extending laterally from one side of the main frame portion, laterally disposed slat type conveyor belt means suitably mounted alignedly on the secondary frame portion and formed in two sections arranged so that a relatively narrow space separates them and into which space the saw moves in operation, one section being of substantial length and to serve as the loading section while the other section is of relatively shorter length to serve as the discharge section, a vertically disposed superstructure having two oppositely disposed side portions of substantially like size and proportion and adapted to carry part of the mechanism of the machine therebetween, power transmitting means carried by the superstructure and adapted to transmit power to a main shaft suitably mounted on the main frame portion, a pair of upwardly projecting spaced apart reciprocating members suitably mounted on the main shaft, suitable bearing means adjacent the upper end of the reciprocating members for mounting thereon a saw carrying shaft, means on the saw carrying shaft for mounting a disc type buzz saw, a multi-grooved V-type pulley member suitably mounted on said main shaft between the reciprocating members, a relatively smaller multi-grooved V-type pulley member suitably mounted on said saw carrying shaft, a plurality of V-type belts engaging the two said V-type pulley members for operating the saw, a secondary shaft suitably mounted on the superstructure and means on the main shaft for transmitting power to the secondary shaft, a pinion on the secondary shaft adapted to transmit power to a third shaft suitably mounted on the superstructure, a relatively large gear on the third shaft adapted to be driven by said pinion on the secondary shaft, a relatively large cam fixedly secured to the gear and adapted to be revolved thereby, a rocker-bar suitably pivotally connected to the reciprocating members and to a reciprocating arm which is suitably pivotally connected to the main frame portion, a roller member suitably mounted on said rocker-bar and adapted to engage the peripheral edge of said large cam to effect the reciprocal movement of the saw, spring means connecting the reciprocating members and the superstructure to yieldably maintain the saw in retracted position, a bevel gear mounted on the third shaft, said bevel gear having teeth on only a one-quarter segment of its circumference, a drive shaft suitably arranged for connection by a universal joint with said conveyor means and by pinion means with the bevel gear to effect the intermittent operation of the conveyor means, a smaller cam fixedly secured to one face of the bevel gear, a log holder member pivotally mounted on the superstructure and extending longitudinally of the machine to a position of suspension just above said relatively narrow space between the said two sections of the conveyor belt means, a roller member suitably mounted on the log holder member and adapted to engage the peripheral edge of said smaller cam to raise and lower said holder member, a plurality of alignedly positioned and substantially vertical through holes in the free end of the holder member, a pin-type holder element slidably mounted in each of said holes and having a weighted portion integrally mounted on the top of the pin-type holder element to yieldably secure the position of the logs during the sawing operation.

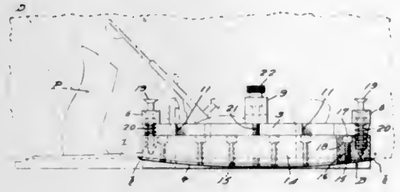
2,614,590
PRESS PLATEN FOR LAMINATED MATERIAL
David E. Hervey, Old Fort, N. C., assignor to Hervey Foundation, Incorporated, a corporation of Maryland
Application August 27, 1946, Serial No. 693,243
4 Claims. (Cl. 144—281)



1. A press platen for exerting substantially uniform pressure on panels over the entire area thereof comprising a rigid core of honeycomb construction, parallel perforated plates secured to opposite faces of said core and a flexible imperforate sheet overlying each plate and sealed along its edges to said core in fluid tight relation, whereby upon the application of fluid pressure to the interior of said core and through

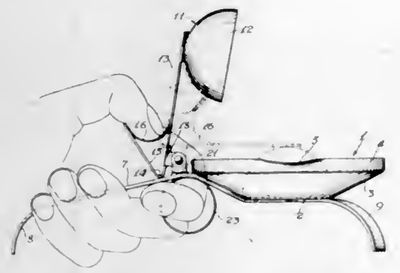
said perforations to the inner surface of said sheets said sheets will move away therefrom and exert substantially uniform pressure over the entire usable area thereof and without regard to irregularities in the surface of said panels.

2,614,591
ATTACHMENT FOR PLANES
Kenneth D. White, Gardenia, Calif.
Application August 9, 1949, Serial No. 109,360
7 Claims. (Cl. 145—5)



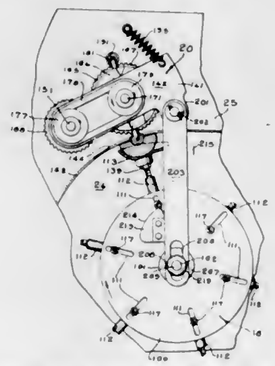
2. A planing tool of the character stated for attachment to a hand plane body, said planing tool comprising a frame structure, means for securing the structure to the hand plane body for the use of the latter as a handle, an elongate member secured to a side of the frame structure to extend lengthwise of the plane body, said member having a downwardly bowed longitudinal bottom edge, a long longitudinally bowed blade of substantial width having a portion of one longitudinal edge disposed against and corresponding to the curve of said bowed edge, the blade width extending laterally from the adjacent side of the plane body, one transverse edge of the blade being sharpened, means for changing the bow of said blade, and means for moving the blade bodily perpendicularly to its path of working movement without changing its curvature.

2,614,592
EGG SEPARATOR WITH THUMB OPERABLE YOLK TRAP
Roger W. Berry, Princeton, Ill.
Application May 7, 1949, Serial No. 92,036
1 Claim. (Cl. 146—2)



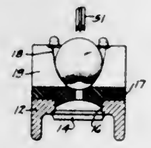
In a device of the character described, a receptacle for a raw egg, means for trapping the yolk therein, a handle for lifting said receptacle said means being provided with a hinged support and a portion connected with said support recessed to receive the thumb of an operator of the same hand that operates the handle, said recessed portion having depressed serrated edge adapted to engage the edge of said thumb when the latter is extended to enable the hinged support to be actuated to lower the yolk-trapping means to operative position and to enable said thumb to raise said support and yolk-trapping means to inoperative position by contracting the position of said thumb.

2,614,593
SEED CELLING MACHINE
Rhys W. Arengo-Jones, Toronto, Ontario, Canada, assignor to Food Machinery and Chemical Corporation, a corporation of Delaware
Application August 1, 1945, Serial No. 608,119½
1 Claim. (Cl. 146—17)



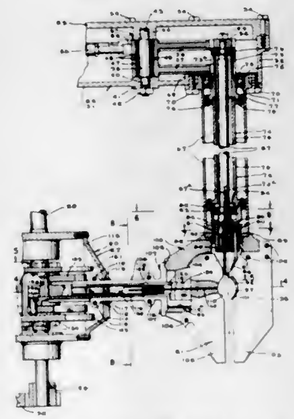
A seed celling machine for fruit such as apples comprising an arcuate apertured plate, a turret provided with fruit holders for receiving halves of fruit and for advancing them along said plate, means for yieldingly urging said holders toward said plate to hold the halves of fruit with the exposed seed cell side thereof against said plate, the yielding of the holders being controlled by the size of fruit half held therein, a rotatable seed cell knife with a blade edge disposed radially of its axis of rotation, means for simultaneously rotating and moving said seed cell knife through the aperture of said plate into cutting engagement with the seed cells of fruit halves during their advancement along said plate, means for rotating the seed cell knife about its own axis during its movement into engagement with the halves of fruit to cut up the seed cells thereof and to sweep out the seed cell material, and gauging means operatively interconnecting the fruit holders and the seed cell knife and responsive to the yielding position of the fruit holders relative to said plate for gauging the depth of cut of the seed cell knife in accordance with the size of the halves of fruit held thereby.

2,614,594
CASEHARDENED RUBBER PITTING CHUCK
George W. Ashlock, Jr., Oakland, Calif.
Application October 27, 1950, Serial No. 192,619
1 Claim. (Cl. 146—19)



A vulcanized rubber fruit chuck having a cavity therein to receive and retain a fruit during orientation and pitting thereof, the surface defining said cavity being provided by a thin oxidized layer of vulcanized rubber and having a mirror-like finish which is non-adherent and impervious to any natural wax and sugar on the surface of fruit oriented and pitted while in the cavity.

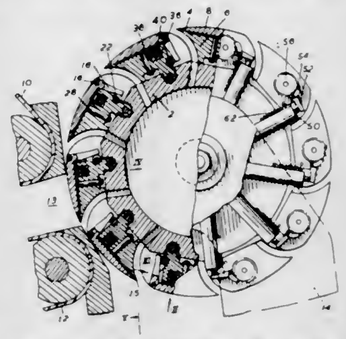
2,614,595
FRUIT CORING MACHINE
William de Back and Sylvio Puccinelli, San Jose, and Robert A. McCloud, San Lorenzo, Calif., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application September 9, 1949, Serial No. 114,848
22 Claims. (Cl. 146—33)



1. A splitting and coring head for a fruit preparation machine comprising a splitting blade having a central core receiving gap therein, means for impaling a fruit on said blade to halve the flesh of the fruit and to position the stem-blossom axis of the fruit centrally along said gap, releasable means for retaining the fruit halves positioned on said blade, a curved seed cell severing knife mounted adjacent the blade and along a side of the core receiving gap therein, means for moving the seed cell severing knife in an elliptical path with the longitudinal axis of the ellipse at right angles to the plane of the splitting blade, a core anchoring spike mounted for lengthwise movement in a hole through the splitting blade, means for advancing the spike into core penetrating condition, a pair of ejector head portions mounted on opposite sides of said blade and closely adjacent thereto, each of said head portions having a wedge shaped leading edge portion and a fruit impacting portion, means for advancing the ejector head portions across said blade into a fruit supporting portion thereof, and timed drive means mounted to operate said fruit impaling means, said seed cell severing knife, said spike and said ejector portions in predetermined timed sequence.

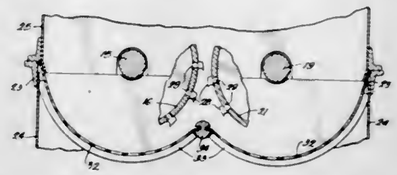
2,614,596
MACHINE FOR CUTTING TOBACCO AND THE LIKE
Patrick Quintin Robert Schreiber, London, England, assignor to Robert Legg Limited, London, England, a British company
Application March 29, 1950, Serial No. 152,698
In Great Britain April 5, 1949
3 Claims. (Cl. 146—117)

1. A rotary cutter for material such as leaf tobacco comprising, a drum, a plurality of knife support sections disposed about the drum, a plurality of knives mounted in a plane parallel to the axis and substantially perpendicular to the radius of said drum, and individual means for moving each knife in its own plane, comprising, a plurality of levers spaced along said drum and pivoted to swing in a plane parallel to and immediately below said knife, elements carried by



said levers and in engagement with the part of said knife remote from said cutting edge, a threaded shaft parallel to each said cutting edge. means connecting said shaft to said levers to swing said levers upon rotation of said shaft thus forcing said cutting edge outwardly on said drum.

2,614,597
APPARATUS FOR BREAKING UP FROZEN FOODS
Elmer G. Magnus, Chicago, Ill., assignor to The W. J. Fitzpatrick Company, Chicago, Ill., a corporation of Illinois
Application September 17, 1949, Serial No. 116,240
4 Claims. (Cl. 146—122)

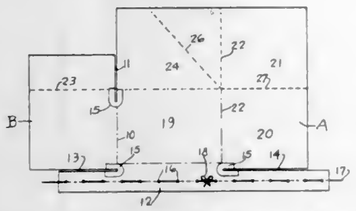


2. A riving machine comprising a housing open at its bottom for discharge of material, a pair of rotors in the housing rotatable on spaced horizontal axes, track means at opposite ends of the housing to support the ends of curved screens beneath the rotors, a pair of curved screens slidable from the sides of the housing to positions beneath the rotors, a rod insertable and removable through openings in the housing ends beneath and registering with the space between the rotors and having grooves in its sides to receive and anchor the edges of the screens.

2,614,598
PROTECTIVE COVER FOR AUTOMOBILE STORAGE BATTERIES
Robert C. Hall, Evergreen, and Ray E. Mock, Denver, Colo.
Application May 5, 1951, Serial No. 224,815
3 Claims. (Cl. 150—52)

1. An acid-resistant protective blanket for use in covering an automobile storage battery or the like, to prevent a workman's clothes from coming into contact with the electrolyte while effecting repairs, said blanket comprising a single sheet of material formed from two rectangular portions of different sizes, one edge of the two por-

tions being in alignment, the larger rectangular portion having a width from the common aligned edges, slightly greater than the width of the battery to be covered plus the height of the battery, and a length slightly greater than the length of the battery plus the height thereof, the smaller rectangular portion having a width greater than the width of the battery and foldable about one



end and a portion of one side thereof, the larger rectangular portion covering the top of the battery, one end and said side thereof, there being a band along the aligned edges integral with the blanket for a distance at least as great as the length of the battery, and a cord of acid-resistant material attached to the band, the cord having a length sufficient to surround the battery to hold the folded blanket in place thereon.

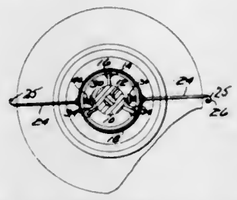
2,614,599
WIRE ANTISKID DEVICE
Charles A. Sivon, Painesville, Ohio
Application April 15, 1949, Serial No. 87,593
6 Claims. (Cl. 152—211)



1. A corrugated zigzag wire structure comprising an elongated strip for embedment in a molded product, said structure having both laterally and transversely extending corrugations relative to the plane of the strip and comprising a plurality of zigs extending laterally of the plane of the strip, zags extending between said zigs and extending laterally of the plane of the strip, first bends integrally joining the said zigs and said zags in series in a zigzag fashion laterally of the plane of the strip and spacing the zigs from the zags in a direction longitudinally of the strip, each zig consisting of a series of portions each extending transversely of the plane of the strip, and second bends integrally joining the ends of said portions in series and spacing the said portions apart from each other in a direction laterally of the plane of the strip.

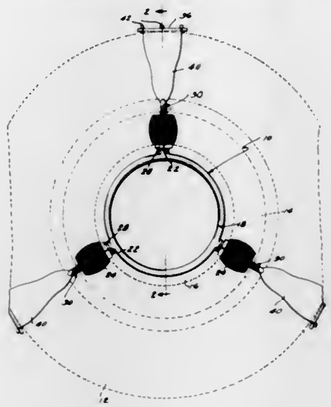
2,614,600
WHEEL CARRIED APPLYING AND REMOVING ANTISKID DEVICE
Sidney W. Wheeler, South Berlin, Mass., assignor of one-half to Florence H. Wheeler, South Berlin, Mass.
Application September 14, 1950, Serial No. 184,852
6 Claims. (Cl. 152—216)

1. A device of the class described comprising a support, radial elements extending therefrom, anti-friction devices on said radial elements, a ring rotatably mounted about said support on said anti-friction devices, means to center said ring relative to said support, rods radially mounted and slidable in the ring, spring means to retract the rods radially inwardly in the direction toward the support, cam means to extend



the rods in the opposite direction, means at the outer ends of said rods for gripping the tread of the tire or the like, anti-skid devices on said last named means, and remote controlled means for rotating said cams.

2,614,601
TRACTION DEVICE FOR VEHICLE WHEELS
Joshua Broh, East Chicago, Ill.
Application May 15, 1948, Serial No. 27,270
2 Claims. (Cl. 152—226)



1. A traction device for a vehicle tire comprising a centering ring adapted to be positioned against the arcuate surface of the hub cap of the vehicle wheel to center the same thereon, said centering ring member having a plurality of spaced radially outwardly extending threaded arms thereon, said arms having axial sockets therein, grip saddles partially encircling the periphery of the vehicle tire, threaded rods extending therefrom, turnbuckles connecting said arms and the threaded rods of said grip saddles, with the ends of said rods extending into the axial sockets of said arms, each of said turnbuckles being oval-shaped and having a serrated surface so that it can be rotated by hand, and a lock-nut on each threaded arm for each of said turnbuckles for holding the same in adjusted position.

2,614,602
AUXILIARY SEMIPNEUMATIC TIRE FOR FLAT RIMMED WHEELS
Wayne R. Stewart, Hutchinson, Kans.
Application May 16, 1949, Serial No. 93,535
1 Claim. (Cl. 152—385)

In a wheel having a rigid, circular rim, substantially triangularly shaped in transverse cross-

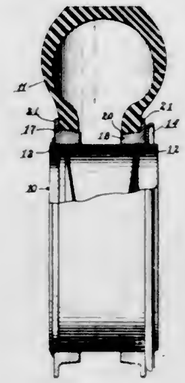
section, the outermost face of the rim being transversely flat, the innermost face of the rim having a pair of inclined, marginal surfaces diverging as the opposed peripheral edges of the rim are approached, and a resilient tire surrounding the rim having a flat innermost face bearing against said outermost face of the rim and a pair of opposed side walls contiguous with said edges of the rim, said innermost face of the tire having a number of spaced, transverse grooves, each side wall of the tire having a substantially U-shaped rib adjacent each groove respectively, means for attaching the tire to the rim comprising a pair of opposed, separate, substantially L-shaped, metallic clamping elements for each groove respectively; a bolt between the tire and rim within each groove respectively and



joining each pair of elements respectively, each element having a short leg flatly engaging the proximal marginal surface of the rim and a long leg engaging the proximal side wall of the tire, each long leg having a bolt-receiving perforation and a substantially U-shaped groove partially surrounding the perforation thereof and facing the tire for receiving a rib on the tire; and a nut on each bolt respectively for drawing the short legs of the elements tightly against said marginal surfaces of the rim to pull the tire tightly against said flat face of the rim, and to compress the tire between the elements, whereby to seat the ribs in the U-shaped grooves of the long legs of the elements and thereby hold the tire against lateral displacement from the rim as well as cooperate with the bolts in the transverse grooves to hold the tire against rotation with respect to the rim.

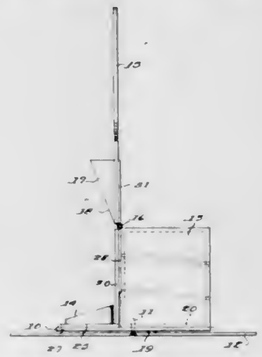
2,614,603
ADAPTER FOR TRUCK WHEEL RIMS
Agnes C. Howley, Beverly Hills, Pa.
Application September 8, 1950, Serial No. 183,794
7 Claims. (Cl. 152—404)

1. In means to mount a tire on a conventional truck wheel rim of smaller outside diameter than the inside diameter of the tire to be mounted thereon, said wheel rim including the usual flange at one side and the usual locking ring securing a second flange thereto at the other side, the combination with said wheel rim, holding flanges and locking ring of a pair of opposed annular adapters mounted on the rim at opposite sides thereof and having seat portions equal in thickness to one-half the difference between the aforesaid diameter of said rim and tire, at least one of said adapters being substituted for one of the wheel rim flanges and retained in place by said locking ring, said



adapters each including an outwardly projecting radial flange at the outer side of the seat portion.

2,614,604
CAN FLATTENER
Guy W. Coffey, Florence, Ky.
Application September 28, 1950, Serial No. 187,202
5 Claims. (Cl. 153—10.5)

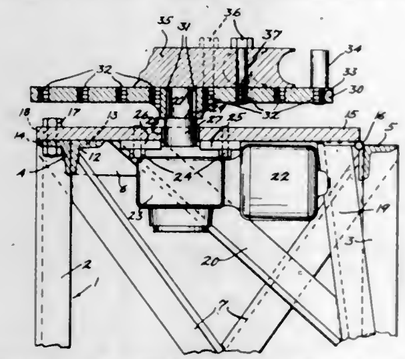


1. A can flattening tool comprising a base, a can end removing cutter carried by the base, a vertically disposed panel on said base adjacent said cutter, a lever pivotally mounted on the upper end of the panel and positioned to be pivoted downwardly in one direction to coact with the end removing cutter for urging the end of the can against the cutter, and a flattening table abutting said panel on the side opposite to the cutter and positioned to coact with the lever when it is moved downwardly in the opposite direction for flattening the bodies of the cans.

2,614,605
PIPE-BENDING MACHINE
Edward Senna, Spokane, Wash., assignor to Senna Service Inc., a corporation of Washington
Application February 11, 1949, Serial No. 75,811
1 Claim. (Cl. 153—40)

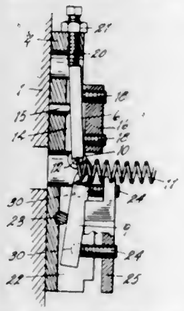
A pipe bending machine comprising a frame, a top plate for the frame, a motor mounted against the under face of the top plate and having associated with it a gear box including a rotary shaft projecting upwardly through the top plate, a turntable mounted upon and turning with the shaft and located above the top plate,

said turntable being formed with threaded openings spaced from each other along a line extending diametrically of the turntable, a circular die removably secured upon the turntable concentric therewith by fasteners passed downwardly through the die and screwed into selected ones of the threaded openings spaced equal distances from the center of the turntable, said die having a grooved marginal edge face, a pin screwed into an end one of the threaded openings and projecting upwardly from the turntable in spaced



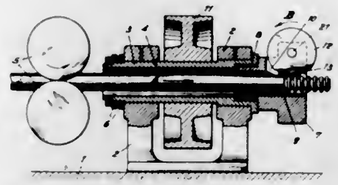
relation to the grooved edge face of the die, a post projecting upwardly from the top plate in spaced relation to the turntable, and a roller rotatably mounted upon said post and shiftable vertically thereon, said roller having a grooved peripheral surface spaced from the edge face of the turntable and adapted to engage the outer side portion of a pipe and cooperate with the pin for holding the pipe in engagement with the grooved edge face of the die when turned with the turntable to bend the pipe about the die.

2,614,606
COILING MACHINE
Carl O. Kirchner, Carthage, Mo., assignor to Leggett & Platt, Inc., Carthage, Mo.
Application December 5, 1949, Serial No. 131,105
7 Claims. (Cl. 153—65)



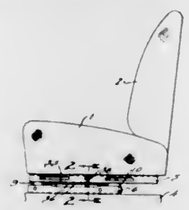
7. In a spring coiling machine, the combination of a head member, of a bar-like tool provided with a grooved coil engaging face, said head member being provided with a holder for said tool comprising a groove-like recess of a width to receive and provide a support for the tool, a rest at the bottom of the recess tiltably supporting the tool intermediate its ends, a removable top plate opposite from said rest for retaining said tool in said recess, and adjusting screws carried by said top plate and engaging the tool on the opposite sides of the rest for tiltably adjusting the tool axially of the work and clamping it in adjusted position.

2,614,607
APPARATUS FOR CORRUGATING TUBES
Otto Klein, Pforzheim, Baden, Germany
Application August 31, 1949, Serial No. 113,291
In Germany October 1, 1948
12 Claims. (Cl. 153—73)



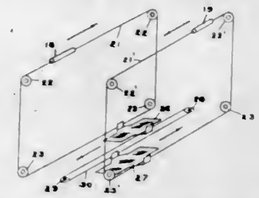
2. In an apparatus for the corrugating of tubes, in combination, a main frame, a head stock mounted in said main frame, a centrally bored spindle adapted for passing through said central bore the tube to be corrugated, said spindle being mounted for rotation in said head stock, a head member mounted at the front end of said spindle, pressure rollers mounted for rotation in radial slots of said head member and comprising teeth provided at their circumference and projecting into a central bore of said head member, and feed rollers disposed before the rear end of said spindle and adapted for engaging and axially feeding said tube, whereby said pressure rollers are also caused to rotate.

2,614,608
SEAT SUPPORTING STRUCTURE
Wallace F. Ardussi, Rocky River, Ohio, assignor to Hupp Corporation, formerly Hupp Motor Car Corporation, Detroit, Mich., a corporation of Virginia
Application April 1, 1947, Serial No. 738,525
4 Claims. (Cl. 155—14)



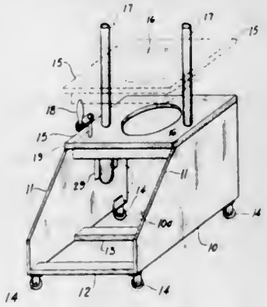
1. A seat supporting structure including in combination, a channel shaped supporting rail adapted to be anchored to the floor of an automobile, a channel shaped upper rail adapted to be anchored to the supporting frame of an automobile seat, a pair of cams each pivotally connected to said lower rail member and having their peripheral cam surfaces engaging said upper rail member, said upper rail member being provided with a pair of slots in the side wall thereof parallel to the base of the channel thereof, a pair of L-shaped members one pivotally anchored to each of said cams, said L-shaped members having the upper ends thereof entering said slots to retain said upper and lower members in parallel relationship during relative shifting movement, a latch bar fixed to and rigidly interconnecting said L-shaped members, and a latch member carried by said upper member adapted to engage said latch bar and retain said members in predetermined adjusted position.

2,614,609
AMBULATORY RECIPROCATOR
Cedric D. Denison, Baltimore, Md.
Application March 30, 1950, Serial No. 152,815
13 Claims. (Cl. 155—23)



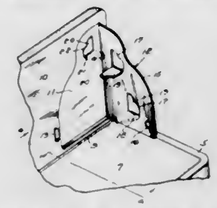
1. An ambulatory reciprocator comprising a first loop and means to support the same for alternate linear movement in a vertical plane for coordinating the left leg and left arm to move in opposite directions, a second loop and means to support the same for alternate linear movement in a vertical plane parallel to the first loop for coordinating the right leg and right arm to move in opposite directions, a hand grip connected to the upper part and a foot ski connected to the lower part of each loop and a third loop connected to and coordinating the movements of the first two loops to coordinate the left leg and arm movements with the right leg and arm movements, whereby the right arm advances when the left leg is advanced and the right leg and left arm move rearwardly, and the reverse alternately to simulate normal walking movements.

2,614,610
AMBULATORY COMMODE VEHICLE
George Camisa and George E. Hecker, Brooklyn, N. Y.; said Hecker assignor to said Camisa
Application June 12, 1950, Serial No. 167,507
1 Claim. (Cl. 155—31)



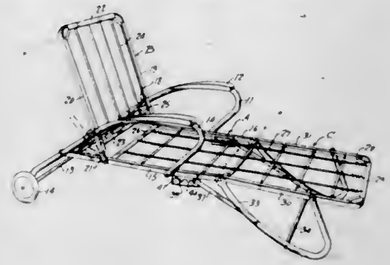
In a device of the class described, a wheeled base comprising a pair of spaced side walls and means connecting said side walls at forward and center portions thereof to provide an unobstructed opening between the rear portions of said side walls, a seat spanning said side walls and having a toilet aperture therein, means adjustably supporting said seat for vertical movement over said rear portions, said supporting means including a vertical lead screw rotatably mounted on each side wall and fixed against axial movement relative thereto, and internally threaded bushings rotatably mounted on and extending through said seat, each bushing threadedly receiving one of said screws, means mounted on said seat for rotating said bushings in unison and a pair of elongated tubular housings, each housing fixed to and extending upwardly from said seat in axial alignment with a cooperating bushing and screw, said housings enclosing portions of corresponding screws which extend above said seat.

2,614,611
PACKING STAND
Reuben B. Robertson, Fort Lauderdale, Fla.
Application May 2, 1951, Serial No. 224,180
7 Claims. (Cl. 155—41)



5. In combination, a luggage packing stand having hinged collapsible means connected therewith adjacent one end thereof, shiftable stops connected with the collapsible means, the shiftable stops being positioned in the path of swinging movement of hinged covers of luggage articles supported on the stand and supporting the covers in open position.

2,614,612
CONVERTIBLE CHAISE LOUNGE
Donald George Wogomon, Goshen, Ind., assignor to The Hettrick Manufacturing Company, Toledo, Ohio, a corporation of Ohio
Application November 9, 1950, Serial No. 194,803
5 Claims. (Cl. 155—105)

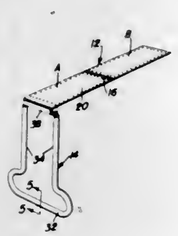


1. An article of furniture comprising a seat frame, a back frame pivotally connected to one end portion of the seat frame, a leg rest frame pivoted to the opposite end portion of the seat frame, a support for the rear end of said seat frame, a curved U-shaped support for said leg rest frame, one arm of the U being pivotally connected to the leg rest frame, and the other arm of the U being pivotally connected to the seat frame, and means connecting said curved support to said seat frame and including adjustable means to dispose said leg rest frame in a downwardly inclined position relative to the seat frame or in a position approximately in alignment with the seat frame.

2,614,613
PORTABLE FOLDABLE LEG REST
Helen W. Bushong, Lima, Ohio
Application June 14, 1951, Serial No. 231,514
2 Claims. (Cl. 155—169)

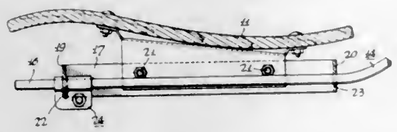
1. A leg rest comprising an elongated leg supporting platform adapted to have one end portion

thereof positioned on a seat and consisting of two sections having contiguous edges thereof hinged together, a transversely extending bearing member provided at the other end of said platform, and a leg member including a bight portion and a pair of side pieces, said side pieces having



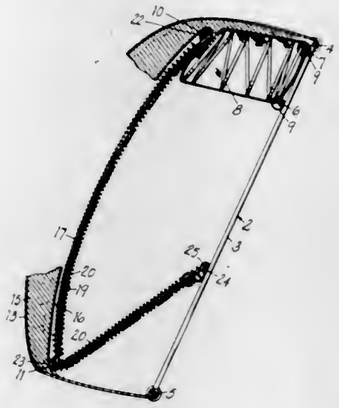
end portions thereof rotatably journaled in opposite ends of said bearing member and terminating in a pair of angulated stop elements which may abut the bearing member to sustain the leg member and the platform in a predetermined angular position.

2,614,614
ANCHORING MEANS FOR ADJUSTABLE BACKS OF METAL CHAIRS
Howard T. Hallowell, Jr., Rydal, and Frank Bennett, Philadelphia, Pa., assignors to Standard Pressed Steel Co., Jenkintown, Pa., a corporation of Pennsylvania
Application February 2, 1951, Serial No. 209,116
7 Claims. (Cl. 155—157)



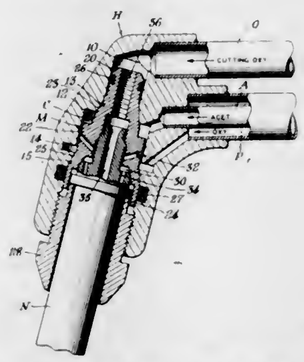
1. In a chair comprising a seat and a back rest, a seat frame having perforated members near the front and the rear of the seat respectively, a support for the back rest having side pieces extending under the seat and freely through the perforations in the back and front members of the seat frame; and a clamp comprising a sleeve split lengthwise and partially opened to loosely embrace one of said side pieces of the back support, said sleeve being formed with radial flanges extending outwardly at each side of said split, and pressure-exerting means associated with said flanges to contract the sleeve on and to thereby anchor the clamp to the side piece, said clamp being provided with a transverse slot adapted for reception of one of the perforated members of the seat frame, said slot intersecting the sleeve and being of sufficient depth to afford registration of the sleeve with one of the said perforations in the frame member whereby when the side piece of the back support is passed through the perforation and through both parts of the sleeve at the opposite sides respectively of the frame member, and the pressure exerting means is then tightened to contract the sleeve, the clamp will be maintained in interlocking engagement with the frame member and will immobilize the said side piece in the frame.

2,614,615
SPRING CUSHION ASSEMBLY
Vito Asaro, Detroit, Mich., assignor to L. A. Young Spring and Wire Corporation, Detroit, Mich., a corporation of Michigan
Application November 9, 1946, Serial No. 708,902
10 Claims. (Cl. 155—180)



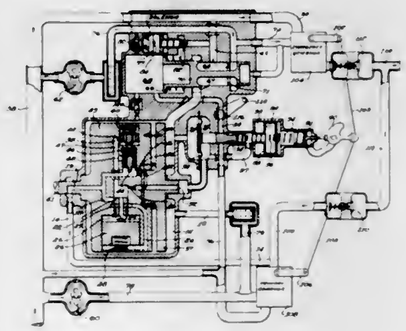
10. A back cushion comprising a rear frame, and a plurality of vertically disposed forwardly bowed spring units each comprising strands of spring wire having longitudinally spaced oppositely disposed loops therein extending transversely of the length of the unit and having reaches between the loops disposed lengthwise of the unit in side by side relation and a tie member for retaining said reaches in side by side relation, said units having springable rearwardly and upwardly projecting supporting arms at their lower ends, the arms being secured at their upper ends to said rear frame, the upper ends of the spring units being springably supported whereby rearward compression of the spring units acts to swing their lower ends downwardly and rearwardly.

2,614,616
GAS MIXING METHOD AND BLOWPIPE APPARATUS
John Villoresi, Lincoln Park, and Arthur P. Scheller, Union, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application August 20, 1948, Serial No. 45,235
7 Claims. (Cl. 158—27.4)



1. Method of mixing combustion supporting and fuel gases in a blowpipe head which comprises introducing the gases to be mixed into separate axially spaced annular chambers, directing annular streams of the gases from said chambers toward each other in a narrow confined annular path whereby the gases meet head-on intermediate the ends of said annular path, and directing the mixed gases from intermediate the ends of said annular path to the blowpipe nozzle.

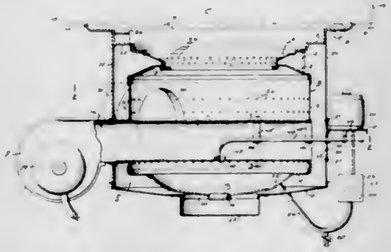
2,614,617
EMERGENCY FUEL CONTROL
Wilfred S. Bobier, Jr., Grosse Pointe, Mich., assignor to George M. Holley and Earl Holley
Application April 20, 1948, Serial No. 22,037
9 Claims. (Cl. 158—36.3)



6. A fuel control system for a power plant of the type in which fuel flow determines speed and in which there is a primary fuel pump and a manually controlled primary fuel governor connected thereto driven by said power plant limiting fuel flow, an emergency fuel pump, a manually controlled emergency fuel governor connected thereto driven by said power plant limiting fuel flow, an escape passage between each pump and each governor, interconnected control valves located in said escape passages for disconnecting fuel flow from the primary governor to the power plant, and for connecting the fuel flow from the emergency governor to the power plant when moved from their normal position to their emergency position, a speed sensing device also driven by said power plant and operatively connected to said valves, said speed sensing device only becoming operative to move said control valves into their emergency position when the speed of the power plant fails to equal that corresponding to that selected by the manual control of said primary fuel governor, a manual control for the speed sensing device, linkage connecting said control to the manual controls of the primary and of the emergency governors so that all three speed responsive devices are simultaneously and manually adjusted.

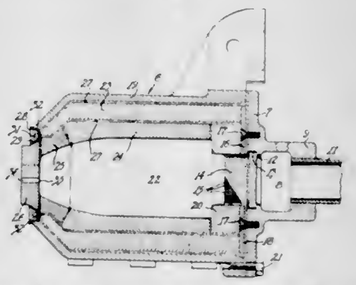
9. In combination a rotating power plant of the type in which the fuel flow determines speed and adapted to rotate below one critical speed and above another critical speed, a fuel control which comprises two alternative fuel supply means, three governing means acting in response to the speed of said power plant, one to prevent the speed falling below the minimum critical speed by switching from one alternative fuel supply means to the other, the other two governing means acting one in each fuel supply means to prevent the speed of the power plant exceeding the maximum critical speed by restricting the flow of fuel to the power plant.

2,614,618
AIR AND FUEL SUPPLY MEANS FOR LIQUID FUEL BURNERS OF THE BOWL TYPE
Lee S. Chadwick, Shaker Heights, Evans W. Cheeseman, Lakewood, and Arthur R. Moore, Cleveland, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application September 21, 1948, Serial No. 50,312
12 Claims. (Cl. 158—91)



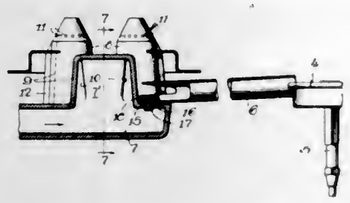
1. In liquid fuel burning apparatus, the combination of a burner bowl including a peripheral wall, a housing enclosing said bowl and having a peripheral wall spaced from the corresponding wall of the bowl, an air supply tube extending inwardly through the peripheral wall of the housing and entirely through the bowl and opening at its inner end into the space between said walls, the tube having an aperture in its lower side through which the interior of the tube communicates with that of the bowl, and a fuel supply pipe projecting into the air supply tube and arranged with its discharge end above said aperture.

2,614,619
BURNER AND NOZZLE TIP FOR PROJECTING HOT PRODUCTS OF COMBUSTION
Robert A. Fuller, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application October 22, 1947, Serial No. 781,403
10 Claims. (Cl. 158—99)



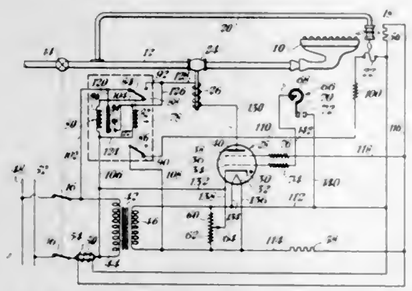
2. A gas burner comprising a metallic shell, a ceramic lining in said shell to form a combustion chamber having an inlet for fuel and combustion air and an outlet for the products of combustion, a water cooled annulus attached to said shell surrounding said outlet, a tip member held in position over said outlet by said annulus, said tip member being provided with an outlet port therein through which the products of combustion pass, said port being substantially U-shaped, the portions of the port forming the legs of the U converging from the side of the tip in the combustion chamber to the other side thereof whereby the gases leaving said port will flow in a converging pattern.

2,614,620
TOP BURNER FOR GAS RANGES
John E. Chambers, Shelbyville, Ind., assignor to Chambers Corporation, a corporation of Indiana
Application October 18, 1948, Serial No. 55,092
8 Claims. (Cl. 158—116)



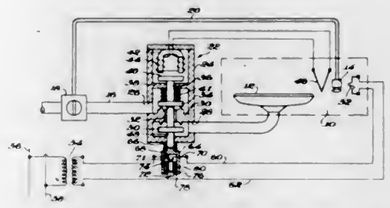
1. A top burner for gas ranges comprising a hollow base having a horizontally disposed top wall, an inlet port for admission of gas to one end of said base, a flash port adjacent the remote end of said base, said base forming an unobstructed passageway for the flow of gas to said flash port, a hollow intermediate housing above the top wall of said base in direct communication therewith, and a plurality of chimneys having burner openings above said intermediate housing, said chimneys being interconnected by said intermediate housing.

2,614,621
SAFETY CONTROL SYSTEM FOR ELECTRICALLY OPERATED HEATING MEANS
Robert C. Main, Los Angeles, Calif., assignor to Robertshaw-Fulton Controls Company, a corporation of Delaware
Application September 8, 1947, Serial No. 772,754
13 Claims. (Cl. 158—124)



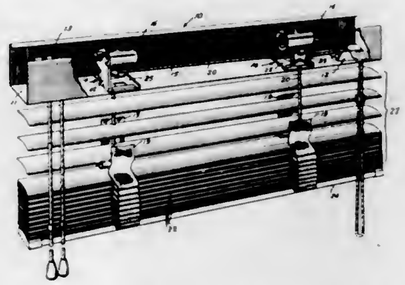
13. A temperature and safety control system for fuel burning apparatus having main and pilot burners and a source of electric energy, comprising electromagnetic valve means for controlling the supply of fuel to the main burner, a control relay having a coil and armature means operable thereby, a timing device having contacts controlling the energization of said coil for a predetermined period during which said coil is effectively deenergized, means operable in one position of said armature means for establishing a holding circuit for said coil independent of said timing device, an electron discharge device having anode and cathode elements and a pair of grids, connections between said anode and cathode elements and said electromagnetic valve means controlled by operation of said armature means, potential divider means connected across said source and tapped to said cathode for maintaining a substantially fixed potential, a pair of resistors in parallel circuit with said potential divider means, one said resistor being exposed to the flame of the pilot burner for varying in resistance value when heated thereby, said pair of resistors having common connection with one of said grids, thermally responsive means connected to said source and the other of said grids and located to respond to temperature conditions caused by operation of said main burner for applying out-of-phase voltage to said other grid upon an increase in said temperature and varying the conductivity of said electron discharge device while said one resistor remains heated, and an electric igniter for said pilot burner connected across said source in parallel circuit with said pair of resistors and being controlled by operation of said armature means.

2,614,622
ELECTRIC IGNITION AND AUTOMATIC PILOT FOR GASEOUS FUEL BURNERS
Samuel George Eskin, Los Angeles, Calif., assignor to Robertshaw-Fulton Controls Company, Youngwood, Pa., a corporation of Delaware
Application May 4, 1948, Serial No. 24,936
1 Claim. (Cl. 158—128)



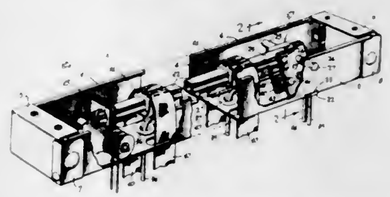
In a control and ignition system for fuel burning apparatus having main and pilot burners and a source of electric energy, the combination of an electric igniter for the pilot burner connected to be energized from the source, a casing having a fuel inlet and an outlet to the main burner, a valve member reciprocable in said casing for controlling the flow of fuel between said inlet and outlet, thermoelectric means responsive to a flame at the pilot burner, electromagnetic means having a coil member and an armature member connected to the thermoelectric means for energization thereby sufficiently to hold said armature in attracted position relative to said coil member but insufficiently to cause movement of said armature member from a released position, means operable between said casing and valve member for biasing the latter to closed position, connecting means between said armature and valve members for joint movement therebetween, a reset stem extending exteriorly of said casing and being axially movable by manual operation relative to said casing from an initial position into operative position for overcoming said bias and resetting said armature member in said attracted position and said valve member in an open position, means carried by said reset stem for interrupting the flow of fuel between said inlet and outlet during the resetting operation, a normally open switch controlling energization of said igniter and having an operating portion carried by said reset stem for movement independently thereof to closed position when said armature member is moved to said attracted position, means for biasing said reset stem to said initial position upon cessation of said manual operation, and means for biasing said switch to open position for deenergizing said igniter upon completion of said resetting operation.

2,614,623
VENETIAN BLIND HEAD BAR ORGANIZATION
Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application January 18, 1950, Serial No. 139,183
5 Claims. (Cl. 160—173)



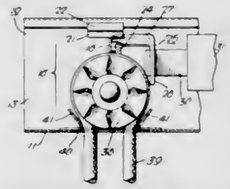
1. A tilt rod cradle for Venetian blinds of the enclosed-head type in which the lift cords are reeved between the slats and supporting ladder tapes, said cradle comprising: a stamped metal body having a base portion adapted to be mounted on the bottom wall of an enclosed head bar; an upstanding leg at one end of the base portion adapted to receive a tilt rod, the leg having an open notch on one side thereof providing clearance for passage of the lift cords of the blind; a side portion of the base on the same side as the notch being folded upwardly and back upon itself in spaced parallel relation to form a pulley housing, the side walls of the pulley housing having registering inverted V-shaped slots extending across the transverse center line of the cradle, a cord pulley within the housing and a pulley axle received in the slots and mounting the pulley, the pulley axle being shiftable within the slots to position the pulley at either side of the transverse center line of the cradle.

2,614,624
VENETIAN BLIND
Walter J. Stuber and John J. Di Ienno, Philadelphia, Pa., assignors to Carey-McFall Company, Philadelphia, Pa., a corporation of Pennsylvania
Original application October 19, 1949, Serial No. 122,192. Divided and this application December 12, 1950, Serial No. 200,395
3 Claims. (Cl. 160—173)



1. In a Venetian blind having a head casing, a bracket comprising spaced parallel side walls and a connecting end wall mounted in rearwardly inclined relation in the blind head casing with its side walls extending longitudinally of said casing, a rounded socket portion defined by the upper portions of the bracket side walls and extending longitudinally of the head casing, a tilt shaft having one end thereof rotationally supported in said bracket socket portion, a wheel rotatably mounted between the bracket side walls below the socket portion therein and over which the elevating cords of the blind are adapted to be trained and extend adjacent said bracket end wall, and latch means pivotally mounted intermediate said bracket side walls below said wheel and extending in the direction of the bracket and wall, said latch means being operable upon movement of the elevating cords in one direction to engage and clamp the same against the bracket end wall to prevent further movement of said elevating cords in said one direction.

2,614,625
TILT MECHANISM FOR VENETIAN BLINDS
John J. Di Ienno, Philadelphia, Pa., assignor to Carey-McFall Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 18, 1950, Serial No. 201,288
2 Claims. (Cl. 160—176)

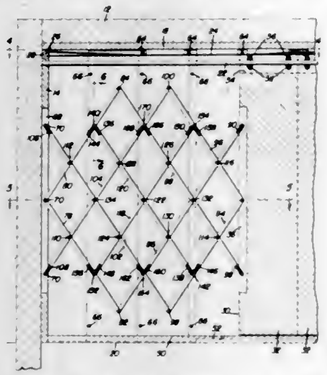


1. In tilt mechanism for a Venetian blind having the usual tilt shaft for angularly positioning the slats of the blind, a rotatably mounted worm, a tilt cord connected to said worm for rotationally actuating the latter, a member including a gear portion meshed with said worm and having a lateral extension from a peripheral part of the gear terminating outwardly in an arm disposed parallel to said gear portion and to which said tilt shaft is connected so that rotation of the gear by the worm operates normally to impart a corresponding rotation to the tilt shaft, said member gear portion having teeth extending circumferentially thereof from one side of the said lateral extension continuously to the other side thereof and said member having openings in the junction portion of the member between the gear and lateral extension to provide gear teeth along said junction and thereby a continuous series of teeth entirely circumferentially of the said gear portion, and means mounting said gear for limited radial movement toward and away from the worm in the limit tilt positions only of the blind so that continued pull exerted on the tilt cord in said limit positions operates to displace the gear outwardly from the worm and cause the worm to ride over the teeth of the gear thereby causing rotation of the worm relative to the gear to effect repositioning of the tilt cord.

2,614,626
TELESCOPING DOOR
Roger Garcia, Jackson Heights, N. Y.
Application April 10, 1950, Serial No. 154,915
4 Claims. (Cl. 160—196)
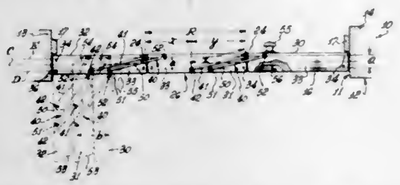
1. A telescoping door assembly comprising a supporting frame including at least one vertical support member, upper and lower horizontal support members extending from and having one of their ends secured to said vertical support member, a plurality of telescoping panel sections disposed within said supporting frame, said panel sections including an end panel section remote from said vertical support member and a

plurality of intermediate panel sections extending from said vertical support member toward said end panel section, each of said intermediate panel sections having spaced side walls slidably embracing an adjacent panel section, said end panel section being slidably mounted at its upper and lower edges on the respective upper and lower horizontal support members, a parallel bar linkage connected at one end to said vertical support member and at its other end to said end panel, vertically spaced and horizontally aligned pins secured to the facing walls of said



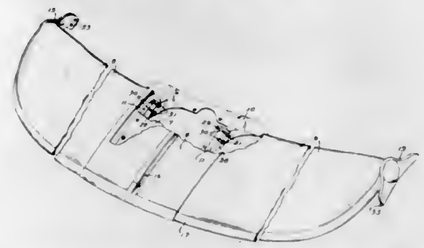
spaced side walls of said intermediate panel sections and maintaining them in spaced relation, link bars of said parallel bar linkage being pivoted on certain of said horizontally aligned pins and supporting said intermediate panels between said vertical support and said end panel, additional link bars being pivotally secured to the vertically spaced pins on opposite sides of said certain horizontally aligned pins, said additional link bars having slotted ends at their pivotal securement to provide a lost motion connection whereby said panel sections may be telescoped and expanded.

2,614,627
FOLDING DOOR
Robert E. Miller, Sierra Madre, Calif.
Application November 14, 1949, Serial No. 127,121
8 Claims. (Cl. 160—199)



1. In combination with a frame defining an opening, a track secured to and extending longitudinally of one of the frame members, a foldable closure for the framed opening and comprising a plurality of panels arranged side by side within the opening and with one end of each panel adjacent to and facing said track, the panels, when the closure is fully unfolded, lying flush in a common plane, the adjacent sides of adjacent panels being relatively bodily separable when the closure is being folded and unfolded, connections between immediately adjacent panels, each connection comprising, at least in part, a link directly pivotally connected at its opposite ends to the track-facing ends of only the immediately adjacent panels, said link being shorter than a panel is wide, the points of pivotal connection between a given link and the two associated, immediately adjacent panels lying, when the closure is fully unfolded, at opposite sides of the common central plane of the panels but between the exposed faces of the panels, and track engaging and controlled members carried by certain, at least, of said panels.

2,614,628
VEHICLE WINDSHIELD VISOR
Howard C. Riemann, Milwaukee, Wis., assignor to The Fulton Company, West Allis, Wis., a corporation of Wisconsin
Application August 30, 1950, Serial No. 182,238
3 Claims. (Cl. 160—211)



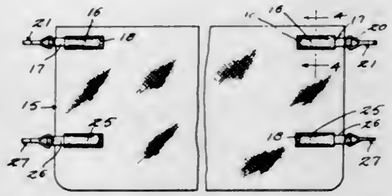
1. In a vehicle windshield visor, an elongated panel formed of a rigid mid-section having upper and lower plates and opposite end sections having adjacent ends telescopically confined and clamped between said plates to facilitate variation of the overall panel length, said plates being relatively wide transversely of the vehicle and said lower plate having a rigid bracket depending from each of its opposite ends, an elongated hinge bracket attachable to the vehicle entirely above the windshield and having spaced flanges swingably adjustably attachable to said depending plate brackets, and means for likewise swingably adjustably mounting the extreme end of each end panel section remote from the mid-section upon the vehicle beyond an end of the windshield.

2,614,629
SHADE ROLLER
Hermann Bleibtreu, Hinsdale, Ill., assignor to Joanna-Western Mills Company, a corporation of Delaware
Application June 27, 1950, Serial No. 170,657
6 Claims. (Cl. 160—297)



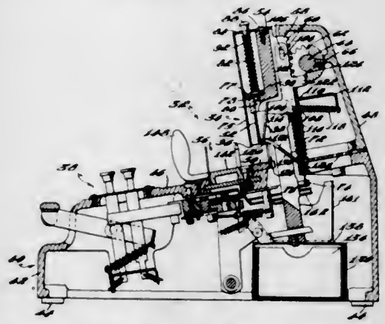
1. In a shade roller mechanism of the class described, a shaft having means for fixing it in axially horizontal position, a tumbler race on the shaft having an upper crest and recessed to provide a downwardly facing tumbler locking shoulder substantially midway of an upper quarter, a tumbler on the race, a shade roller telescoped over and rotatable about the shaft, a rewinding spring connected to and acting between the shaft and the roller, a tumbler plate fast to the roller, and spaced lobes on the tumbler plate overlapping the tumbler race, each presenting to the tumbler a lifting and a locking flank, the locking flank of each lobe being spaced from the lifting flank of the other lobe more than the tumbler locking shoulder is spaced from said upper crest of the tumbler race.

2,614,630
WINDSHIELD COVER
Steve Moszelt, Akron, Ohio
Application February 2, 1951, Serial No. 209,051
1 Claim. (Cl. 160—368)



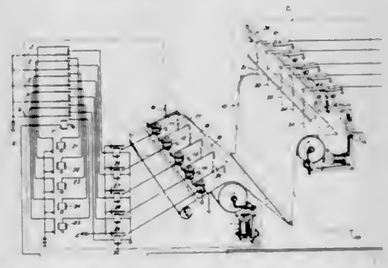
In a windshield cover the combination of a water repellant rectangular cover of an extent completely to cover said windshield, pockets open at their outer ends and closed at their inner ends, stitched to said cover respectively adjacent the four corners thereof, elastic strips having their inner ends secured in said pockets, and hook members secured to the outer ends of said elastic strips, certain of said pockets being spaced closely adjacent the top of said rectangular cover and other of said pockets being spaced at a distance from the opposite edge thereof, whereby the portion of said cover below said other pocket may overlie the hood of a vehicle.

2,614,631
CHIP REMOVER FOR TAG NOTCHING MACHINES
Arnold R. Bone, Needham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Original application October 22, 1948, Serial No. 55,975, now Patent No. 2,576,211, dated November 27, 1951. Divided and this application March 8, 1950, Serial No. 148,397
5 Claims. (Cl. 164—50)



1. In a machine for notching an edge of a tag by cutting a chip therefrom including a cutter block upon which may be placed a tag to be notched, a cutter movable to and from the cutter block to cut through a tag placed on the block, and means for effecting cutting movement of the cutter, a slender finger mounted adjacent to the cutter with an end thereof close to and slightly in advance of the cutting edge thereof, said finger being movable with the cutter toward the cutter block for entrance into a tag resting on the block prior to severance of the chip from the tag and thereafter being movable to a position remote from the cutter to extract a chip from its notch and discard it, means for effecting said lateral movement of the finger upon termination of the cutting movement of the cutter, and a stripper situated close to the path of the finger at opposite sides thereof for intercepting and stripping chips from the finger during its lateral movement.

2,614,632
APPARATUS FOR RECORDING NUMERALS IN CODE
Charles Clos, Middle Village, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Application July 27, 1948, Serial No. 40,939
2 Claims. (Cl. 164—113)

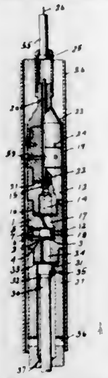


1. Apparatus for recording any selected numeral in each of a plurality of denominational orders of a number comprising apparatus for recording one of two different conditions in a selected two out of five different positions in a recording medium or in a selected three out of said five positions to represent the selected numeral of each denominational order, and means for recording an additional selected numeral in the same area of said medium as employed for recording the numerals of said plurality of denominational orders comprising apparatus for selectively recording certain of said numerals in said plurality of denominational orders by said one condition in three out of five positions in said medium and each of the other of said numerals by said one condition in two out of five positions in said medium.

2,614,633
BUSHING INSERTING TOOL
Otis T. Broyles, Houston, Tex., assignor, by direct and mesne assignments, to Associated Engineers, Inc., Houston, Tex., a corporation of Texas
Application October 8, 1947, Serial No. 778,665
3 Claims. (Cl. 166—1)

1. A well tool for punching an orifice bushing into a pipe in a well comprising, a housing having an expansion chamber therein and an explosion chamber associated with the expansion chamber said housing having a bore in communication with the expansion chamber and opening outwardly through the wall of the housing, a bushing in the bore having an orifice therethrough, a bushing carrier movably positioned in the bore adjacent the inner end of the bushing means releasably connecting the bushing to the carrier, means in the bore engageable with the carrier to limit outward movement of the carrier in the bore, said carrier having a cavity therein positioned to provide an extension of the expansion chamber, means for creating an

explosion in the tool to cause expansion of the fluid in the expansion chamber to drive the carrier and bushing radially outwardly to force the bushing to punch the pipe.



2,614,634

LOW WATER-LOSS CEMENT SLURRY AND METHOD OF CEMENTING

Peggy J. Lea, Kansas City, Mo., and Henry B. Fisher, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application July 11, 1949, Serial No. 104,152
28 Claims. (Cl. 166—22)

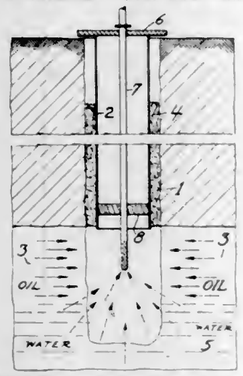
20. The process of cementing a well which extends into a porous formation which comprises placing a hydraulic cement aqueous slurry having a reduced water loss adjacent to said porous formation by admixing with hydraulic cement a minor proportion effective to reduce the water loss of said slurry of at least one of the group consisting of substituted alkyl amine salts of an acid carboxyalkyl cellulose ether wherein the alkyl group of said carboxyalkyl radical consists of from one to three carbon atoms and said salt is soluble in an aqueous slurry of hydraulic cement and water, interacting therewith sufficient water to produce a fluid slurry and introducing said slurry into said well into contact with said porous formation.

2,614,635

PREVENTING WATER ENCROACHMENT IN OIL WELLS

Philip S. Williams and Henry J. Welge, Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware

Application April 4, 1946, Serial No. 659,598
4 Claims. (Cl. 166—22)



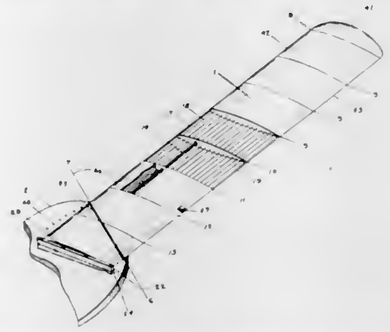
4. A method for improving oil production from a subterranean formation penetrated by a bore hole which comprises forcing into the formation a liquid silicone polymer pre-heated to a temperature of at least about 500° F.

2,614,636

ROTOR PARACHUTE

Richard H. Prewitt, Wallingford, Pa.

Application April 12, 1947, Serial No. 741,025
12 Claims. (Cl. 170—160.11)



1. In rotary wing aircraft, a hub, a longitudinally lithe blade, means operatively associated with the blade to render it stiff chordwisely and flexible longitudinally, said blade having a longitudinal axis, a bending edge strap straddling said blade, and complemental means on the strap and hub to hold the strap rigidly in a selected one of a plurality of positions in overlying relation to the blade, to establish a selected line of flexure of the blade angular relative to the longitudinal axis thereof establishing the delta three angle of the blade and thus predetermining the operating characteristics of the blade when first deployed.

2,614,637

AIR SCREW WITH AUTOMATIC PITCH MECHANISM

Fred Landgraf, Los Angeles, Calif.

Application March 26, 1948, Serial No. 17,205
4 Claims. (Cl. 170—160.16)



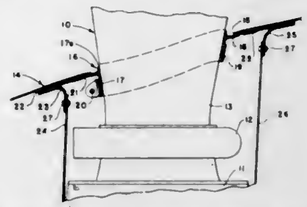
1. In a rotatable air screw for helicopters having an axis of rotation that provides the sustaining lift against gravity: a plurality of blades adjustable about an axis that is transverse to said axis of rotation, for adjusting the pitch; said blades having leading edges that are inclined rearwardly of the said transverse axis, for all adjustments of the blades, the centers of gravity of the sections along at least a portion of each blade being above the said axis of adjustment; the blades having trailing edges below the leading edges, so that the relative air acting on the blades produces a torque on the blade in a direction to reduce the pitch; means responsive to the speed of rotation about said axis of rotation for producing a torque on the blade about said axis of adjustment, said torque increasing with speed; and means providing a resilient force opposing said torque.

2,614,638

SPINNER SEAL AND FAIRING

Merle A. Beaupre, Santa Monica, Calif., assignor to North American Aviation, Inc.

Application April 9, 1947, Serial No. 740,312
2 Claims. (Cl. 170—160.23)



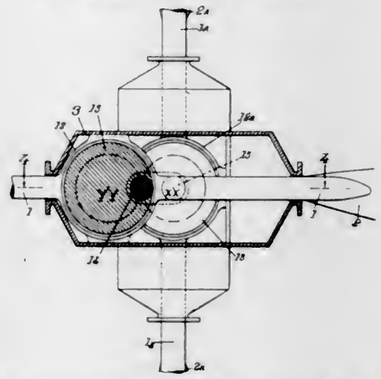
2. An aircraft propeller construction comprising a spinner cowl having an opening through the wall portion thereof, a variable pitch propeller blade extending radially through the opening in said spinner cowl wall portion, axially spaced annular transverse bulkheads disposed fore and aft of said radially extending propeller blade and within said spinner cowl, a continuous offset retaining strip attached to the periphery of said spinner cowl opening forming a guide recess therewith, angular attachment means connecting the peripheries of said transverse bulkheads to the underside of said spinner cowl wall providing stiffening support for the opposed edges of said spinner cowl opening and for said guide recess, and flexible seal means fixedly attached to said propeller blade and having an extended metallic flange portion slidingly retained within said stiffened guide recess for sealing the said wall opening in the said spinner cowl around said propeller blade to prevent airflow in the radial direction therethrough at all positions of adjustment of said propeller blade.

2,614,639

ROTARY WING DEVICE

Gilbert Richard, Epone, France, assignor to Office National d'Etudes & de Recherches Aeronautiques, Paris, France

Application August 4, 1947, Serial No. 765,992
In France May 15, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 15, 1964
2 Claims. (Cl. 170—160.25)



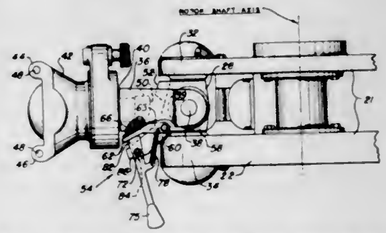
1. In combination with an aircraft, a frame carried by said aircraft, a driving rotary casing rotatable on said frame about a horizontal axis of rotation fixed with respect to said frame, a rotor of the airscrew type including a stem extending at right angles to said horizontal axis and two blades carried by the opposed ends of said stem, means carried by said casing for slidably guiding said stem so that the stem axis constantly intersects said horizontal axis of rotation of said casing, and a part pivotally connected to said frame about a horizontal axis fixed with respect to said frame and located in the same horizontal plane as the first mentioned horizontal axis of rotation, to which it is parallel, this part being also pivotally connected to said stem about a horizontal axis parallel to the two above mentioned axes of rotation.

2,614,640

ROTOR BLADE SUPPORT

Michel D. Buivid, Milford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application February 1, 1951, Serial No. 208,911
8 Claims. (Cl. 170—160.55)



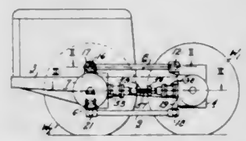
1. Droop stop mechanism for rotary wing aircraft of the type having a rotor drive shaft, a hub rotatable by said shaft, and a blade pivoted in said hub for flapping movement, said mechanism including a supporting member rotatable with said shaft and having an abutment beneath said blade, a flap hinged on said supporting member and carrying a shock pad located between said blade and said abutment, said flap having its hinge so located that said flap can rest upon said abutment, and a pendulum member also hinged intermediate its ends on said supporting member in position to be acted upon by centrifugal force, said pendulum member having a fly weight on its lower end and cam means on its upper end in position to engage and raise said flap and support the latter off said abutment whenever said blade is rotating below a predetermined speed.

2,614,641

MOUNTING FOR VERTICALLY MOVABLE TANDEM WHEELS

Emil F. Norelius, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

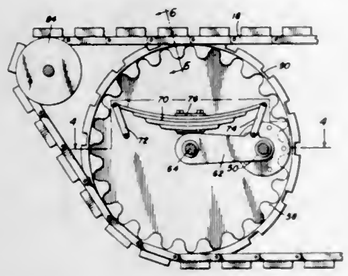
Original application March 25, 1949, Serial No. 83,361. Divided and this application December 14, 1949, Serial No. 132,939
7 Claims. (Cl. 180—1)



1. A tandem drive vehicle comprising, in combination, a vehicle body having a rearward, transversely extending axle housing, a pair of rear wheels rotatably mounted, respectively, at

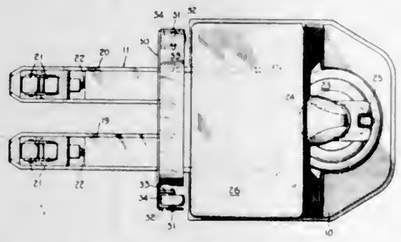
opposite ends of said axle housing in vertically nonswingable relation thereto, parallel link mechanisms at opposite sides, respectively, of said vehicle body, each comprising a wheel support and a pair of upper and lower links operatively connecting said wheel support with said axle housing in vertically swingable relation thereto, a pair of front wheels rotatably mounted, respectively, on said wheel supports and in tandem relation to said rear wheels, a transverse equalizer element pivoted at its center on a forward part of said vehicle body and bearing at its opposite ends, respectively, upon said wheel supports, and means for transmitting driving power to said rear and front wheels at each side of said vehicle body.

2,614,642
TANK TREAD AND DRIVING WHEEL MOUNTING
Charles J. Dumais, Woonsocket, R. I.
Application August 26, 1947, Serial No. 770,672
4 Claims. (Cl. 180—9.1)



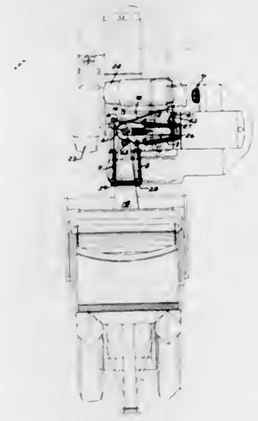
1. In a tank having a set of driving wheels and a driving axle operatively connected to each wheel; a means for resiliently mounting said wheels on the side walls of the tank comprising stub axles rotatably journaled in said wheels, leaf springs carried by said stub axles, means provided exteriorly of and mounted upon the side walls of said tank receiving each of said driving axles, arms pivoted on said means and having portions journalling said stub axles, and means terminally pivoting said springs to said arms and to the side walls of the tank.

2,614,643
STABILIZER FOR LIFT TRUCKS
George F. Quayle, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application June 4, 1947, Serial No. 752,333
2 Claims. (Cl. 180—21)



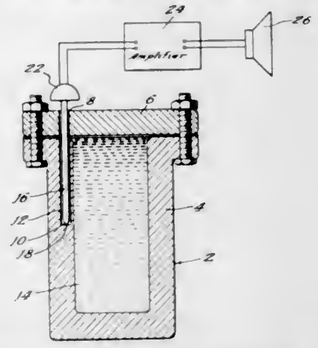
1. In a truck of the class described, a lifting head, a drive wheel rotatably mounted at the forward end of said lifting head, drive means for rotating said drive wheel whereby the ground contacting portion of said drive wheel exerts a thrust for propelling said truck, laterally spaced load wheels at the rear of said truck coacting with said forward drive wheel for supporting said truck for normal movement on said wheels, intermediate wheels having metal ground contacting rims, mounting means for said intermediate wheels positioned at laterally spaced points of said truck relatively to said drive wheel and said intermediate wheels being disposed with their entire peripheries behind the nearest portion of the periphery of the drive wheel and in front of the nearest portion of the peripheries of the load wheels, said mounting means holding said intermediate wheels normally spaced from a ground plane determined by the drive and load wheels, and one of said intermediate wheels contacting the said ground plane when said truck tips relatively to said plane through the lifting of one of said load wheels off said ground plane, each of said intermediate wheels having the periphery of its metal ground contacting rim rounded so as to roll bodily with the truck against the ground plane on an axis including the ground contacting portions of said drive wheel and one of said laterally spaced load wheels upon said tipping of the truck.

2,614,644
TRACTOR STEERING MECHANISM
Carl A. Gustafson, Peoria, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application January 3, 1949, Serial No. 68,777
7 Claims. (Cl. 180—79.2)



2. A steering mechanism operable to impart turning movement about the pivotal draft connection between a tractor and a drawn implement which comprises a lever pivoted coaxially with the draft connection and extending outwardly from opposite sides thereof, a pair of fluid actuated jacks pivoted at one end to opposite sides of the tractor and at their opposite ends to opposite ends of the lever, a second pair of jacks pivoted at one end to opposite sides of the implement and at their opposite ends to the ends of the lever, means to extend one jack in each pair on one side of the tractor and implement and simultaneously retract the other jacks, and gear means to control the swinging movement of the lever relative to the angular displacement of the tractor and implement about the draft connection.

2,614,645
APPARATUS FOR CHEMICAL REACTION DETECTION
Harley A. Wilhelm, Ames, Iowa, assignor to the United States of America as represented by the United States Atomic Energy Commission
Application February 3, 1947, Serial No. 726,185
3 Claims. (Cl. 181—0.5)



3. Apparatus of the class described comprising, in combination, a reaction bomb having walls defining a chamber, and a sonic vibration detector within at least one of said walls adjacent said chamber.

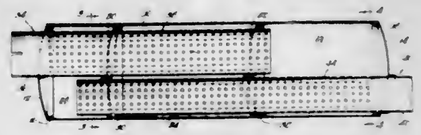
2,614,646
FREQUENCY RECEIVING BELL WITH AN ELASTICALLY YIELDABLE DIAPHRAGM EXTENDING ACROSS ITS MOUTH
Warren S. Eaton, Los Angeles, Calif.
Application March 17, 1947, Serial No. 735,178
4 Claims. (Cl. 181—24)



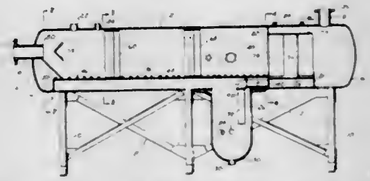
1. A frequency receiving or collecting bell consisting of a concavo-convex body of elastically yieldable material having a mouth at one end and a neck at the opposite end thereof, said neck being provided with a longitudinal passage open at both ends and communicating from the interior of the bell body through the passage to the open outer end thereof, the walls of the bell body being free to collapse progressively from the mouth to the neck under the effect of pressure applied longitudinally of the neck, the marginal edge of the mouth being in one and the same plane, said bell being provided with an elastically yieldable diaphragm extending across the mouth thereof.

2,614,647
MUFFLER WITH A PLURALITY OF EXPANSION CHAMBERS
Edwin E. Bryant, Stoughton, Wis., assignor to Nelson Muffler Corporation, Stoughton, Wis., a corporation of Wisconsin
Application March 14, 1947, Serial No. 734,570
6 Claims. (Cl. 181—57)

1. A muffler structure comprising an elongated tubular body closed at its opposite ends, a transverse partition means within the body dividing the body into a plurality of longitudinally spaced chambers, said partition being perforated to provide gas passage means therethrough, an inlet pipe extending through the inlet end of the body and through said partition means and having an open end exhausting into the chamber adjacent the exhaust end of the body, said inlet pipe being perforated throughout the length thereof disposed within said body, an exhaust pipe extending through the exhaust end of the body and through said partition means and having an open end opening into the chamber adjacent the inlet end of the body, said exhaust pipe being perforated throughout its length disposed within said body.



2,614,648
HORIZONTAL OIL AND GAS SEPARATOR
Samuel A. Wilson, Tulsa, Okla., assignor to Maloney-Crawford Tank & Manufacturing Company, Tulsa, Okla., a corporation of Delaware
Application April 2, 1948, Serial No. 18,646
9 Claims. (Cl. 183—2.7)

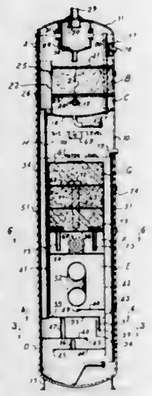


3. The method of separating oil and gas which consists of directing an influent mixture into a tank in a horizontal path for initially directing the heavier liquids in a downward path due to gravity and the lighter vapors longitudinally through the upper portions of the tank, directing the downward traveling liquids in an elongated horizontal path, scrubbing the heavier liquids during their horizontal travel prior to settling in the tank, conducting the gaseous vapors in an elongated horizontal path in the upper portion of the tank, subjecting the horizontally traveling gases to a plurality of scrubbing operations for freeing them of heavier constituents, conducting the heavier liquids from the tank, and carrying off the gas from the upper-most portion of the tank.

2,614,649
METHOD OF AND APPARATUS FOR TREATING OIL WELL STREAMS
Jay P. Walker and Clarence O. Glasgow, Tulsa, Okla., assignors to National Tank Company, Tulsa, Okla., a corporation of Nevada
Application September 13, 1950, Serial No. 184,652
36 Claims. (Cl. 183—2.7)

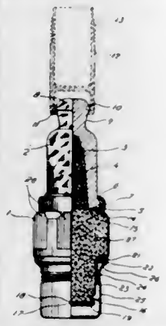
19. An emulsion treater including, an upright tank closed at its top and bottom, a partition across the upper portion of the tank defining a liquid collecting chamber thereabove, an overflow member above the partition at one side of the collecting chamber, an imperforate partition across the lower portion of the tank dividing the tank into a settling chamber and a washing chamber, a conductor leading down from the overflow member through the lower partition at one side thereof, said lower partition terminating short of one side of the tank to provide a

single restricted flow passage between the settling and washing chambers, means below the lower partition for temporarily trapping a stratum of oil in contact with said partition, a heater in the washing chamber above the lower partition, and means for maintaining a body of water in the settling and washing chambers and for discharging separated water from the settling chamber, and means for maintaining an oil level above the water level.



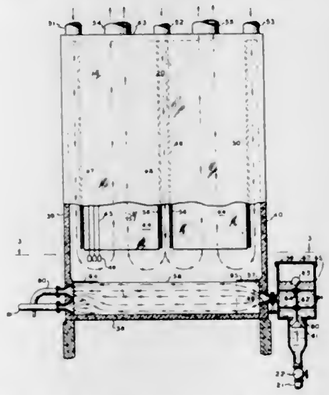
32. In combination an oil-gas-water well stream treater, a tank having a stream inlet at its upper end, a collection chamber in the upper end of the tank receiving the liquids of the well stream, means for carrying off gas from the collection chamber, a settling chamber in the lower end of the tank, a conductor leading from the collection chamber to the settling chamber, a transverse heater in the tank above the settling chamber, a washing chamber in the tank extending above the heater, a preheater above the heater disposed across the tank having an influent inlet from the exterior of the tank, a conductor from the preheater to the stream inlet at the upper end of the tank, an oil outlet from the tank below the bottom of the collection chamber, and a water outlet from the tank.

2,614,650
DEHYDRATOR PLUG
Milton E. Chandler, New Britain, and Scott F. Hunt, Meriden, Conn., assignors to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application December 3, 1947, Serial No. 789,350
17 Claims. (Cl. 183—4.8)



1. A dehydrating device comprising dehydrating material contained in a seamless resilient metal tubular body connected to a substantially hollow, transparent, moisture-impervious cap hermetically and yieldably sealed to one end of said body by deforming said end of said body over a yieldable gasket surrounding the connecting end of said cap.

2,614,651
METHOD AND APPARATUS FOR RECOVERING GAS SUSPENDED LIQUID-SOLUBLE MATERIAL
Harry A. Wintermute, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application February 7, 1951, Serial No. 209,825
5 Claims. (Cl. 183—7)

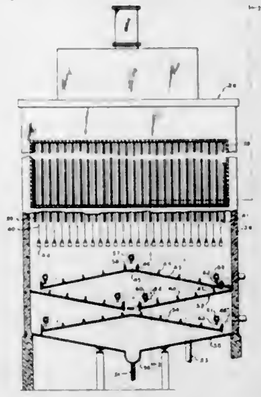


2. A process for recovering sulfate ash suspended in a stream of exhaust gases from a sulfate pulp process recovery furnace which comprises electrically precipitating said sulfate ash from a stream of such exhaust gases upon an extended surface in a precipitating zone, establishing a pool of black liquor in a dissolving zone subjacent to and in communication with said precipitating zone, introducing a stream of black liquor into said pool at one side thereof and withdrawing at substantially the same rate a stream of black liquor from said pool at an opposite side thereof to establish a cross-flowing first stream in said pool, reintroducing said withdrawn black liquor as a stream into said pool of black liquor at said opposite side thereof at a point adjacent to the point at which said first stream is withdrawn from said pool, withdrawing a stream of black liquor from said pool at said one side thereof at a point adjacent to the point at which said stream of black liquor is first introduced into said pool to establish a second stream of black liquor in said pool flowing adjacent to, parallel with and countercurrently to said first stream of black liquor, and transferring precipitated sulfate ash from said precipitating zone to said dissolving zone wherein it is dissolved in said counter-flowing streams of black liquor.

2,614,652
ELECTRICAL PRECIPITATOR
Norman W. Sultzer, Scotch Plains, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application August 13, 1951, Serial No. 241,538
8 Claims. (Cl. 183—7)

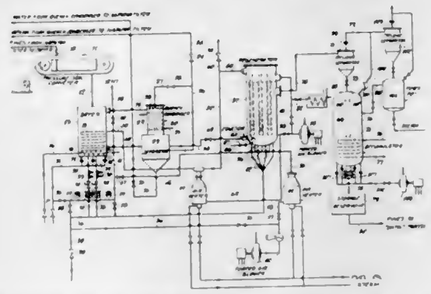
1. An electrical precipitator comprising a casing, complementary extended surface and high tension electrodes mounted in said casing, a panel

mounted in an inclined position in said casing and positioned to receive dust falling from said electrodes, said panel having a plurality of riffles



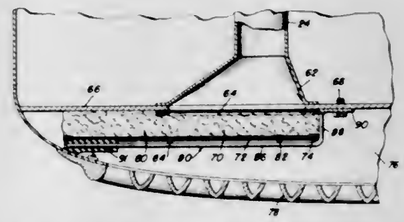
projecting upwardly therefrom, means for applying liquid to an elevated area of said panel and sump means below said panel for receiving liquid from said panel.

2,614,653
APPARATUS FOR RECOVERY OF SOLID MATERIAL FROM CONTINUOUS CONTACT FILTRATION PROCESS
Joe E. Penick, Woodbury, and Eric V. Bergstrom, Short Hills, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application June 22, 1949, Serial No. 100,588
1 Claim. (Cl. 183—34)



Apparatus for separating a contact material of small particle size from a gas in which it is entrained comprising in combination a separating vessel, an inlet conduit for introducing gas-supported contact material into said vessel, an outlet conduit from said separating vessel through which gas free from contact material can be withdrawn, another outlet conduit located at the bottom of said separating vessel through which contact material can be withdrawn, an accumulating vessel located below said separating vessel, the bottom of said second outlet conduit attached to the top of said accumulating vessel, a valve located in said first outlet conduit adapted to force a minor portion of the gas in said separating vessel through said second conduit into said accumulating vessel, an open-ended, elongated conduit axially mounted in said accumulating vessel, the upper end of said conduit located a spaced distance below the inlet to said vessel and the lower end of said conduit located near the bottom of said vessel, an outlet through which the gas can escape from said accumulating vessel located near the top of said vessel and means to restrict the flow of gas from said outlet, an outlet through which the contact material may be withdrawn from said vessel located near the bottom of said vessel, and means for introducing inert gas into the lower section of said accumulating vessel to fluidize the contact material in said vessel.

2,614,654
AUTOMOTIVE AIR VENT FILTER ATTACHMENT
Keith I. Strinden, Litchville, N. Dak.
Application March 7, 1951, Serial No. 214,305
2 Claims. (Cl. 183—44)



1. In a vehicle having a body and grille with a body air intake assembly which includes an air duct provided with an air scoop and a frontal screen for the air scoop, an air filter located exteriorly of said air scoop and having a rear surface confronting said screen, and means for holding said air filter against said screen including a bracket provided with mounting means to fasten to a part of the body of the vehicle and contact the front surface of said filter, said bracket carried by a part of the vehicle body behind the grille and contacting the front surface of the filter, and a resilient bumper spacing the bracket from the grille by contacting the grille.

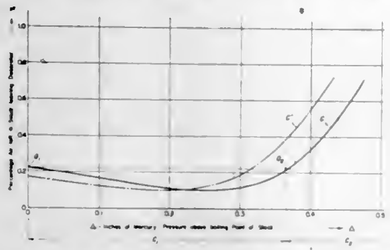
2,614,655
FILTER MATERIAL
Sidney H. Katz, Edgewood Arsenal, Md., assignor to the United States of America as represented by the Secretary of War
Application August 10, 1943, Serial No. 498,062
2 Claims. (Cl. 183—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A filtering medium comprising, a filter paper having dispersed thereon and in the pores thereof by air filtering a finely pulverized asbestos particle filtrate, said paper comprising a soft fuzzy and porous web of cellulose fibers, said particles being frictionally held in said fibers in said web.

2,614,656
DEAERATING A SUSPENSION OF PAPERMAKING STOCK
Carleton L. Clark, North Tarrytown, and Carlo Vicario, New York, N. Y., assignors to The Rotareaed Corporation, Bronxville, N. Y., a corporation of New York
Application August 15, 1949, Serial No. 110,450
3 Claims. (Cl. 183—114)

2. The process of treating paper-making solids in suspension to effect de-aeration thereof, which comprises subjecting such suspension while at an established temperature to a degree of vacuum

that lies in a critical range extending from the absolute pressure corresponding to the boiling



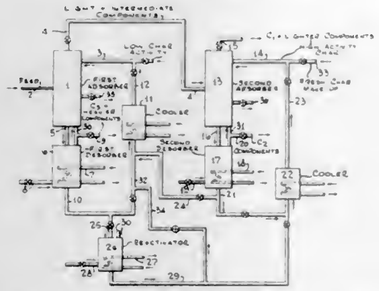
point to an absolute pressure of about 0.3 inch of mercury above that point.

2,614,657

ADSORPTION OF GASES WITH CHARCOALS HAVING DIFFERENT ACTIVITIES

Edward W. S. Nicholson and Robert J. Fritz, Baton Rouge, La., and Lewis D. Etherington, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 19, 1951, Serial No. 232,308
13 Claims. (Cl. 183—114.2)



3. A process for the separation of components of a gaseous mixture comprising a less readily adsorbed component A, a most readily adsorbable component C, and an intermediate component B by means of adsorption by a solid adsorbent which comprises contacting the gaseous mixture in a first adsorption zone with a solid adsorbent of reduced activity, separating an unadsorbed gaseous stream comprising components A and B from a first rich adsorbent containing component C adsorbed thereon, contacting the gaseous stream comprising components A and B with a solid adsorbent of high activity in a second adsorption zone, and separating an unadsorbed gaseous stream comprising component A from a second rich adsorbent containing component B adsorbed thereon.

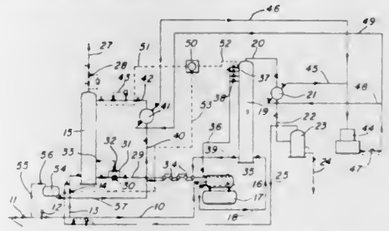
2,614,658

METHOD FOR RECOVERING GASEOUS HYDROCARBONS

Joseph L. Maher and Charles O. Meyers, Tulsa, Okla., assignors to National Tank Company, Tulsa, Okla., a corporation of Nevada

Application April 26, 1950, Serial No. 158,092
14 Claims. (Cl. 183—114.6)

1. The method of removing hydrocarbons from gaseous streams, including, passing the stream in intimate contact with a lean absorbent oil to enrich the oil and remove hydrocarbons from the stream, dividing the gaseous stream prior to the absorbing step into a main stream and a stripping stream, heating the stripping stream, passing the heated stripping stream and the enriched absorbent oil in intimate contact to vaporize hydrocarbons from the oil substantially denuding the latter and enriching the stripping stream, removing the hydrocarbons from the enriched stripping stream and recovering the same, reducing the pressure of the main stream while maintaining the pressure of the stripping stream to provide a pressure differential between the



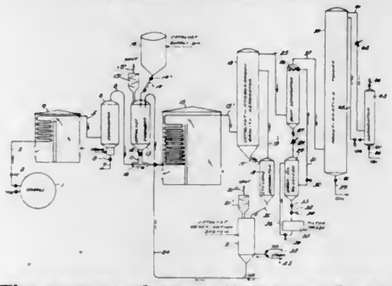
main stream and the stripping stream, subsequently recombining the denuded stripping stream and the reduced-pressure stream to reconstitute the gaseous stream, and returning the denuded oil to the absorbing step, the enriched oil denuding step being carried out at a pressure above that of the absorbing step, and the denuded oil being maintained at a pressure above that of the absorbing step until the denuded oil is returned to the absorbing step.

2,614,659

PROCESS FOR THE SEPARATION OF POWDERED CATALYST FROM A STREAM OF GASEOUS HYDROCARBONS

William W. Holland, Baltimore, Md., assignor to The Gyro Process Company, Detroit, Mich., a corporation of Michigan

Application July 10, 1948, Serial No. 38,154
5 Claims. (Cl. 183—122)



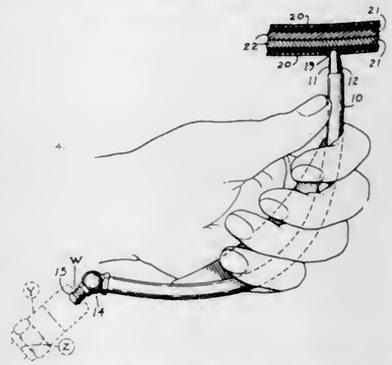
1. The process of separating a powdered catalyst from a stream of hydrocarbon vapors, the steps which comprise continuously passing a stream composed of a mixture of hydrocarbon vapors in a powdered catalyst into a confined gravity-type separating zone, said zone having a vapor outlet in the top thereof and a catalyst outlet in its bottom, in said zone causing the hydrocarbon vapors to move upwardly toward and through the vapor outlet and the catalyst to precipitate downwardly for discharge through said catalyst outlet, directly transferring the precipitated catalyst to a centrifugal separator in which said catalyst and hydrocarbons present therein are subjected to forces effecting the separation of the catalyst solids from hydrocarbons in a vaporous state, and returning hydrocarbon vapors liberated in said centrifugal separator to the interior of said gravity- separating zone at a position between the mixture inlet of said zone and the vapor outlet thereof.

2,614,660

COVERED SPRING GREASING DEVICE

Thomas J. House, Decatur, Ill.

Application June 27, 1947, Serial No. 757,442
2 Claims. (Cl. 184—1)



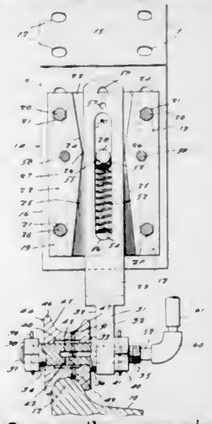
1. In a spring greasing appliance, the combination of a curved tube, said curved tube having a fitting for connecting said curved tube to a source of grease and a tapered snout on one end to engage an opening in a spring cover so that a lubricant can be forced from the source of grease into the spring cover through the curved tube, said curved tube having a reinforcing integral web, said web being on the outside and in the curve of the tube but removed from the end of the tube, to facilitate the holding or handling of the appliance and strengthening the curved tube.

2,614,661

RAILWAY CAR WHEEL FLANGE OILER

Henry P. Fisher, Chicago, Ill.

Application October 31, 1947, Serial No. 783,385
4 Claims. (Cl. 184—3)



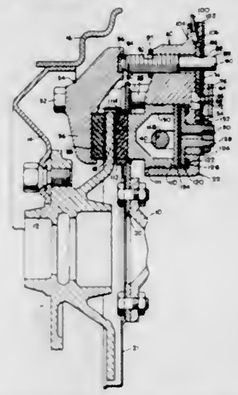
1. A wheel flange oiler, comprising a mounting bracket adapted to be secured to a wheel truck frame, a slide secured to the mounting bracket and having a longitudinal groove extending for the entire length of the slide, the groove having corresponding sides which diverge toward opposite ends of the slide, an upstanding element secured to the slide and disposed near the center of the groove, a bar universally slidably mounted within the groove and having a longitudinal slot slidably receiving the element, a spring arranged in the slot and engaging one end of the slot and the element and serving to urge the bar outwardly of one end of the slide, a cover plate mounted upon the slide to cover the groove and enclosing the spring, the bar including a part extending beyond one end of the slide, and means mounted upon the part for contacting the wheel flange for applying oil to the same.

2,614,662

SINGLE-DISK SPOT-TYPE BRAKE WITH ONE POINT ADJUSTMENT

Jesse G. Hawley, Painted Post, N. Y., assignor to Hawley Brake Corporation, Corning, N. Y., a corporation of New York

Application November 25, 1949, Serial No. 129,566
12 Claims. (Cl. 188—72)



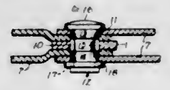
1. The combination in a brake assembly of a fixed bracket, a wheel rotatably mounted in association with the bracket, a brake disc carried by the wheel, a torque plate fixed to the bracket, a pair of bolts slidably mounted on the torque plate and positioned parallel to the wheel axis just radially outside of the outer periphery of the disc, an outboard plate carried at one end of the bolts and having a radially inwardly directed portion opposed to an arcuately short portion of the brake disc, a block of friction material carried by the outboard plate portion, an inboard plate carried by the other end of the bolts, a hydraulically actuated piston carried by the inboard plate and having a portion extending slidably through a bushed opening in the torque plate into proximity to said arcuately short portion of the opposite side of the brake disc, a block of friction material carried by the piston, a screw positioned between the outboard and inboard plates radially outside the bolts, gear means interconnecting the bolts and screw to provide a one point adjustment for brake wear, a clicker pin for visibly and audibly indicating adjustment, said torque plate including an extension slidably supporting the bolts beyond the inboard plate, and mechanical cam means for moving the piston independently of the hydraulic means.

2,614,663

BRAKE OPERATING MECHANISM

Nathan Joseph, Los Angeles, Calif.

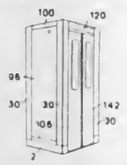
Application September 13, 1949, Serial No. 115,361
4 Claims. (Cl. 188—78)



3. A brake operating system including: an anchor plate; a pair of links for transmitting brake

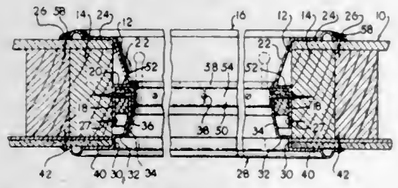
shoe reaction to said anchor plate, said anchor plate and links having therein openings of the same diameter; and a pivot pin having at one end a head, having removable securing means at its other end, having a central annular groove defining a reduced intermediate portion of diameter smaller than that of said openings, said groove being wider than the thickness of said plate, and said pin having, between said groove and its respective ends, a pair of body portions each of a diameter to snugly fit within an opening of a respective link and a length such as to dispose said groove in embracing relation to the planes of the respective sides of said anchor plate, whereby, in the assembled system, said reduced intermediate portion will extend through the opening in said anchor plate and will define, within said anchor plate opening, an annular space providing for lost motion between the links and the anchor plate, thereby to provide for limited wrapping action of the brake shoe of the brake.

2,614,664
TELEPHONE BOOTH
Percival H. Sherron, Jamaica, N. Y.
Application March 25, 1948, Serial No. 16,949
4 Claims. (Cl. 189—2)



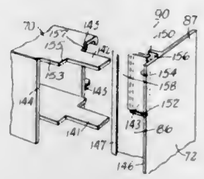
1. A telephone booth having a base with upstanding sides and an inwardly extending flange, a plurality of panels mounted on the base flange, a plurality of corner posts forming with said panels the walls of said booth, each of said corner posts comprising a pair of spaced apart members forming inner and outer corner elements, a flange formed at the lower end of each of said corner elements, downwardly extending pins secured to the flanges of said outer corner elements, straps secured to the under side of said base flange adjacent the corners of the base, the flanges of the inner corner elements being engaged between said straps and th base flange, the flanges of the outer corner elements resting on the base flange and the pins secured to said outer element flanges passing through registering openings in the base flange, the inner corner element flanges and the straps respectively, removable means above the base flange securing each pair of inner and outer corner elements together, each side of the panel members being in engagement with a corner post and a roof secured to said corner posts.

2,614,665
WINDOW FRAME
Walker Floyd, Richmond, Ind.
Application May 11, 1950, Serial No. 161,342
1 Claim. (Cl. 189—75)



In a metal frame for use in window openings of wooden buildings, an outer section, an intermediate section and an inner section, said outer section comprising a facing flange secured against the outer wall of the building about the opening, an inclined flange extending into the opening from the inner edge of said facing flange, a spacing flange out-turned from the inner edge of said inclined flange and bearing edgewise against the framing of the opening; said intermediate section comprising a spacer element having a flange lying against said framing and an out-turned flange abutted against the inner face of said spacing flange, and another flange inturned from said out-turned flange and spacedly overlying the first flange of the intermediate section; and said inner section comprising a second facing flange secured against the inner wall of the building about the opening, a relatively narrow base flange inturned from the inner edge of said second facing flange and bearing against the said framing, a second relatively narrow flange out-turned from the inner edge of said base flange, a second inclined flange out-turned from said second narrow flange, the free edge portion of the latter inclined flange being horizontally disposed beneath the said another flange in flat abutted relation with respect thereto, screw fastenings passing through said facing flanges, the parallel flanges of said intermediate section and the said horizontal edge portion of said second inclined flange, and a filler strip housed within the space between the first flange of said intermediate section and the said horizontal portions of said second section and disposed in abutted relation with respect to the said out-turned flange of said intermediate section to prevent any bending of the said another flange and the said horizontal edge portion of the said second section, when the screw fastenings passing therethrough and the filler strip are tightened.

2,614,666
CORNER JOINT
Edmund Peremi, Bayside, N. Y., and Henry Weimann, Brentwood, Mo., assignors, by mesne assignments, to General Bronze Corporation, Garden City, N. Y., a corporation of New York
Original application February 14, 1946, Serial No. 647,560. Divided and this application June 8, 1948, Serial No. 31,807
6 Claims. (Cl. 189—76)



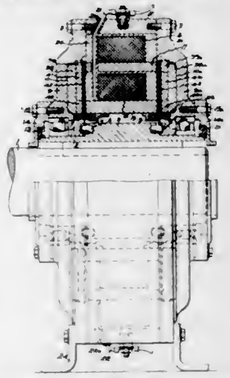
1. A metal window frame construction comprising a pair of rail members abutting at their ends and forming a corner, one of said rail members having a pair of spaced flanges and a base member extending therebetween, a portion of said base member being offset from the plane thereof and terminating at one of its ends adjacent the end thereof, said base member having an opening therethrough adjacent the other end of said offset portion, the other rail member having spaced walls and a pair of tongues extending from opposite of said walls, one of which tongues extends over one end of said offset portion and through said opening in said base member and substantially parallel to and closely adjacent said offset portion, the other of which tongues extends over the opposite end of said offset portion and substantially parallel to and closely adjacent said offset portion, said second mentioned rail member having end shoulders abutting the base member of said first-mentioned rail member on the side of the latter opposite to that from which said flanges of said first mentioned rail extend.

2,614,667
PANE FASTENER
Ivan M. Kirlin, Detroit, Mich., assignor to The Kirlin Company, a partnership
Application June 18, 1949, Serial No. 99,923
5 Claims. (Cl. 189—78)



4. A clip having a web with upstanding flange portions at the ends disposed at an angle of 45° to the side edges of the web, one of which side edges is shorter than the other side edge, and a finger extending normal from each flange portion and disposed in the plane of the web.

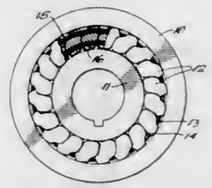
2,614,668
FLUID MAGNETIC CLUTCH
Benerson A. Waderlow, Lathrup Township, Oakland County, and Winthrop S. Horton, Farmington Township, Oakland County, Mich., assignors to B. A. Waderlow and Co., Detroit, Mich., a corporation of Michigan
Application July 7, 1949, Serial No. 103,426
7 Claims. (Cl. 192—21.5)



1. A fluid magnetic clutch including a housing, a shaft rotatably mounted thereby, discs fixed around the shaft and spaced from one another, two spaced annular electro magnets fixed in the housing between the discs and spaced from the latter, two annular permanent magnets fixed in each side of the housing in axial alignment with the electro magnets and spaced from the outer sides of the discs, annular pole pieces connecting the extremities of the permanent magnets remote from the discs, magnetic particles in the gaps on both sides of the discs, and means for energizing the electro magnets.

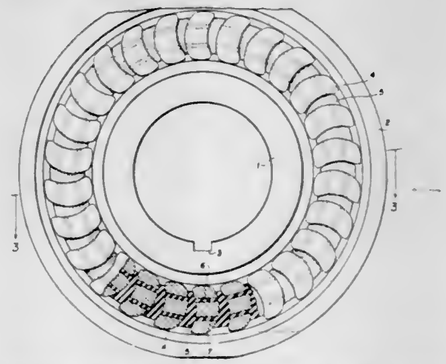
2,614,669
SPRAG TYPE ONE-WAY CLUTCH
Adiel Y. Dodge, Rockford, Ill.
Application February 19, 1948, Serial No. 9,458
4 Claims. (Cl. 192—45.1)

1. A one way clutch comprising inner and outer coaxial races, a series of tiltable grippers between the races having eccentrically curved ends to grip the races when tilted in one direction and to release the races when tilted in the other direction, stop means engageable with the grippers to limit tilting thereof in said other direction, the grippers having an outer series of openings therein adjacent their outer ends and



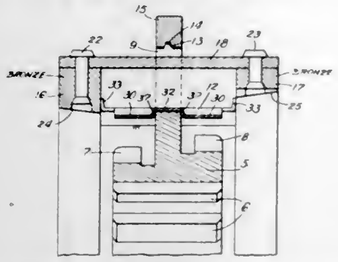
a second series of openings therein adjacent their inner ends, and annular coil springs in the series of openings, the spring in the outer series of openings tending to expand and the spring in the inner series of openings tending to contract thereby to hold the ends of the grippers in engagement with the races respectively.

2,614,670
SPRAG TYPE OVERRUNNING CLUTCH
Ralph M. Heintz, Cleveland, Ohio, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application August 14, 1946, Serial No. 690,399
1 Claim. (Cl. 192—45.1)



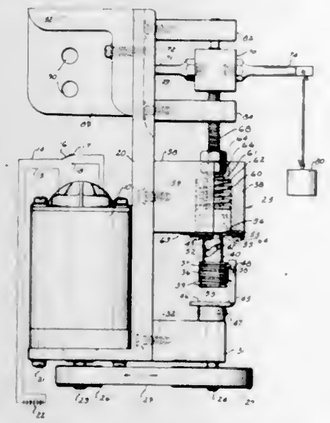
A unitary self-contained overrunning clutch for effecting a drive between radially spaced inner and outer rotative elements and comprising a plurality of rotatably tiltable radially elongated sprags of rigid material, a plurality of spacers of non-metallic, elastic, resilient, volumetrically compressible material arranged alternately between said sprags, each of said sprags being made of rigid metallic material, each of said sprags having a hole extending transversely therethrough, relatively thin tying elements of the same elastic material as said spacers of appreciably lesser dimensions than those of said spacers extending through the hole of each sprag and molded together with each sprag to be integral with the spacers on both sides of each sprag to hold said sprags together both in tension and compression, the radial length of each tiltable sprag being greater than the space between said rotative elements and the greatest diameter of each of said spacers being less than said space to maintain said spacers out of contact with said rotative elements to permit rotatable tilting of said sprags.

2,614,671
SYNCHRONIZER CLUTCH ELEMENT
Ernest E. Eaton, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application September 12, 1947, Serial No. 773,709
2 Claims. (Cl. 192—107)



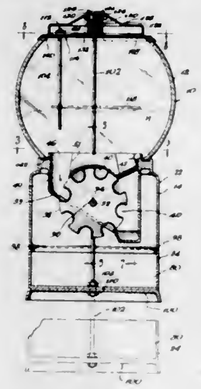
1. A sleeve construction for a synchronizer comprising a pair of annular synchronizer cones having circumferentially directed arcuate recesses in the outer peripheries thereof, a plurality of circumferentially arranged arcuate spacer members having extended lateral edges, rivet means for securing said cones to said lateral edges of said spacer members with the lateral edges of the latter disposed in said recesses to provide an interlock therebetween in a circumferential direction independently of said rivet means, and the ends of the lateral edges of said spacer members lying flush with the outer radial surfaces of said synchronizer cones and the outer arcuate surfaces of said lateral edges of said spacer members lying flush with the extreme outer peripheries of said synchronizer cones.

2,614,672
OVERLOAD RELEASE FOR LOAD ACTUATOR
James Mark Launder, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Application December 26, 1947, Serial No. 794,070
16 Claims. (Cl. 192—150)



1. In combination, a driving member, rotatable in either direction, a driven member operated by said driving member for actuating a load, a coil spring having convolutions normally in slight frictional engagement with one of said members with each of its ends freely projecting therefrom; spring-energizing means associated with the other member for engaging either of the freely projecting ends of said coil spring, and means responsive to the direction of rotation of the driving member including an inclined torque-transmitting connection providing limited rotary and longitudinal movement between said coil spring and energizing means to cause said energizing means to selectively engage the freely projecting end of said spring which produces the self-clutching engagement of said spring whereby a driving connection is established between the driving and driven members irrespective of the direction of rotation of the driving member.

2,614,673
MERCHANDISE VENDING MACHINE
Anton Obodzinski, Chicago, Ill.
Application June 9, 1949, Serial No. 98,109
2 Claims. (Cl. 194—2)

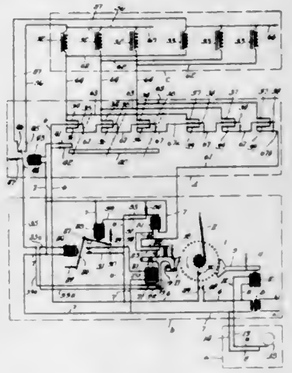


1. In a coin controlled vending machine, a pedestal having a lower portion constituting a coin box, an upper portion resting upon the lower portion and separable therefrom for removal of coins, a storage member supported over said upper section and having top and bottom openings, dispensing mechanism in the top section communicating with the storage member through the bottom opening thereof, a cover for the top opening of said storage member, rods disposed vertically through the pedestal and the storage member and slidably passing through portions of the dispensing mechanism and having lower ends rigidly secured to the lower pedestal section, a plate in said storage member and with which upper ends of said rods are connected serving to limit downward movement of the rods by engagement with material in the storage member when the upper pedestal section is shifted upwardly for removal of coins from the coin box formed by the lower pedestal section, a post extending upwardly from said plate, and a fastener for said cover detachably engaged with said post.

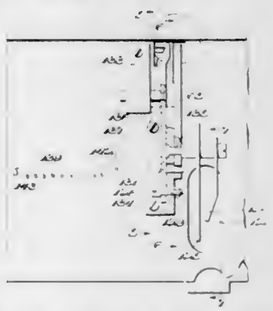
2,614,674
ELECTRIC CONTROL FOR PHONOGRAPHS
Lloyd J. Andres, Itasca, Ill., assignor to H. C. Evans & Co., Chicago, Ill., a corporation of Illinois
Application January 16, 1947, Serial No. 722,323
3 Claims. (Cl. 194—15)

1. A coin-controlled selecting system for phonographs comprising two pluralities of electromagnets, a first plurality of manually operable electric switches corresponding in number with said first plurality of electromagnets, a second plurality of manually operable electric switches

corresponding in number with said second plurality of electromagnets, electric switch means responsive to the displacement of any one of said first plurality of switches, two independent common connections one running from each said first and second plurality of electromagnets to said electric swtich means, the remaining terminal of each of the electromagnets of said first plurality being connected with a corresponding remaining terminal of each of the electromagnets of the second plurality, each switch in the first plurality of switches being connected to a corresponding switch in the second plurality of switches, conductors running, respectively, from each electromagnet of said first plurality of electromagnets to the corresponding switch of said first plurality of switches, and means for connecting the switches of the second plurality to said conductors respectively.

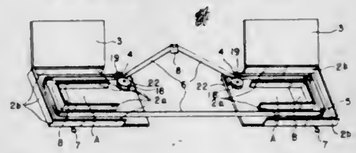


2,614,675
COIN HANDLING MEANS FOR COIN CONTROLLED VENDING MACHINES
George P. Booth, Dobbs Ferry, N. Y., and Lawrence M. Smith, North Bergen, N. J., assignors to Interborough News Company, New York, N. Y.
Original application July 12, 1947, Serial No. 760,678, now Patent No. 2,571,668, dated October 16, 1951. Divided and this application August 3, 1951, Serial No. 240,092
2 Claims. (Cl. 194—97)



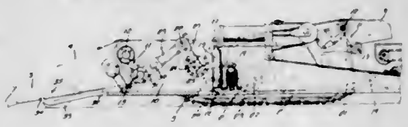
1. In a vending machine, a coin handling mechanism comprising a coin chute inclined away from the vertical, a control arm pivotally mounted at its lower end and having a lip at its upper end which normally depends into the upper end of the coin chute, said lip being pivoted upwardly out of the coin chute upon the insertion of an article into the coin chute, a feeler member pivoted intermediate its ends and having a cam point on its upper end and a pair of spaced legs on its lower end, an operating pin connected to said control arm and extending between said legs for pivoting said cam point downwardly into the upper end of the coin chute for engagement with an inserted article when said lip is pivoted out of the coin chute by the inserted article, said legs being spaced apart sufficiently to provide clearance between the legs and the operating pin to allow further downward movement of the cam point into the coin chute independently of movement by the operating pin to permit said cam point to drop into the hole of an inserted apertured article, said cam point having a flat upper edge which upon said further downward movement engages the edge of the hole in the apertured article to retain said article at the upper end of the coin chute, and said cam point having a curved lower surface for allowing removal of said apertured article from said coin chute.

2,614,676
GUIDING AND FEEDING MECHANISM FOR ENDLESS TYPEWRITER RIBBONS
Augusto Leite Pessoa, Rio de Janeiro, Brazil
Application July 14, 1948, Serial No. 38,715
In Brazil August 18, 1947
3 Claims. (Cl. 197—168)



3. Guide and feeding mechanism for typewriter ribbons comprising in combination, a pair of spaced first supporting means respectively arranged at both sides of a typewriter, second supporting means respectively associated with said first supporting means and movable relative thereto, two pairs of spaced guide posts, each pair being associated with one of said second supporting means and being yieldably supported, two pairs of tension rollers respectively associated with said first supporting means, means connected to at least one of said rollers for rotating the same in response to the actuation of the keys of said typewriter, and means operatively connected with each first supporting means and the adjacent second supporting means for effecting relative movement therebetween.

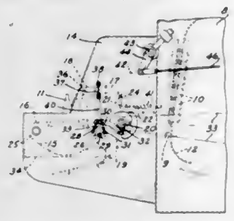
2,614,677
GUIDE FOR OSCILLATORY LOADING HEAD
Charles N. Bebinger, New Philadelphia, Ohio, assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Original application November 28, 1947, Serial No. 788,703. Divided and this application April 14, 1951, Serial No. 221,076
9 Claims. (Cl. 198—14)



2. In a material loading apparatus, the combination comprising a support, a frame pivotally mounted on said support to swing in vertical planes relative thereto about a horizontal axis,

said frame having laterally spaced side portions each provided with a floor engaging shoe for limiting downward swinging movement of said frame, and a vibratory gathering and elevating head mounted in a forwardly and downwardly inclined position on said frame for vibratory gathering and elevating movement relative thereto and having a front gathering portion provided with a penetrating edge, said spaced side portions of said frame extending along the sides of said front gathering portion beneath the latter and having upper guides engaging said gathering portion to maintain the penetrating edge thereof in the desired relation to the floor.

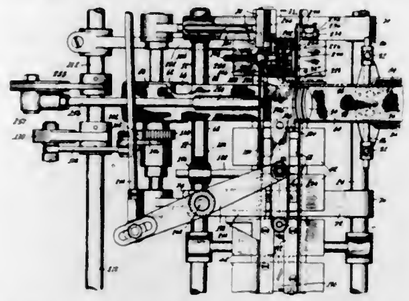
2,614,678
BOTTLE FEEDING MECHANISM FOR WASHING MACHINES
Archie E. Ladewig, Waukesha, Wis., assignor to Archie Ladewig Co., Waukesha, Wis., a corporation of Wisconsin
Application August 9, 1948, Serial No. 43,292
3 Claims. (Cl. 198—24)



1. In a bottle feeder for a washer having transverse rows of bottle conveying pockets for receiving the bottles in approximately horizontal condition, a horizontal conveyor deck movable to advance bottles resting in upright position thereon toward the successive rows of pockets of the washer, a stationary approximately horizontal bottle transfer plate located above and spaced from the delivery end of said deck but terminating closely adjacent to the pocket rows, a bottle transfer rotor disposed within the space between said deck and said plate and being operable to tilt and transfer the bottles from the delivery end of the deck to the plate remote from the pocket rows, a series of parallel upright bottle guiding partitions spanning said space and said rotor and extending forwardly over said deck and having rear tapered ends converging and extending toward said plate, and a pusher movable downwardly along said tapered partition ends to engage the tilted bottles deposited upon said plate by said rotor and to inject them into the adjacent pocket rows.

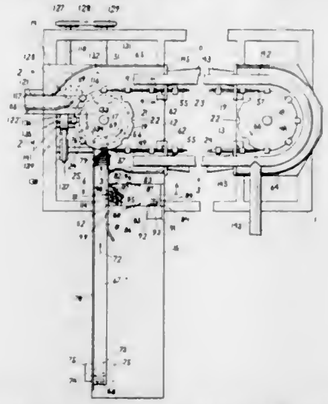
2,614,679
CONVEYER AND TRANSFER MECHANISM FOR WRAPPING MACHINES
Oscar Sandberg, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana
Application May 2, 1949, Serial No. 90,990
10 Claims. (Cl. 198—24)

1. In a feeder for wrapping machines, a feed conveyor, a ratchet drive therefor, a measuring rod, a guide tube therefor, means for reciprocating said measuring rod in said guide tube for contacting a row of articles in said feed conveyor, means for operating said ratchet drive for causing the articles in the feed conveyor to follow said measuring rod when it moves in a feeding direction, a ram adapted to engage a predetermined number of the articles and move them out of alignment with said feed conveyor after said measuring rod has reached its outer limit of movement, spring biased plates between which said plurality of articles are moved by said ram, a reciprocable former plate adapted to engage said plurality of articles and move them from their position between said plates into a pocket of a pocket conveyor, and means for operating said measuring rod comprising a drive rock shaft, a driven rock shaft, a pin type clutch for connecting said driven rock shaft to said drive rock



shaft, a clutch lever for engaging said pin, a spring for disengaging it, said clutch lever controlling the engagement and disengagement, a latch lever for said clutch lever in the engaged position, a latch bar for said clutch lever in the engaged position, said latch lever being manually releasable, and said latch bar being normally engaged but periodically disengaged each cycle of operation of the wrapping machine for permitting said spring to effect disengagement only when said measuring rod is at its inner limit of movement, and a second spring for normally biasing said measuring rod to said limit of movement.

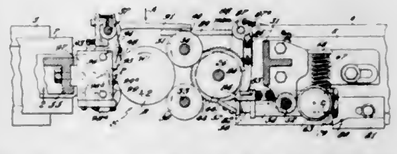
2,614,680
MACHINE FOR RINSING BOTTLED FRUITS AND THE LIKE
Bernard C. Eisenberg, Brooklyn, N. Y.
Application July 1, 1949, Serial No. 102,485
6 Claims. (Cl. 198—33)



1. A machine for rinsing bottled fruits, comprising a guide member extending in a substantially horizontal direction and having a guiding surface extending parallel to said direction along a portion of said member and being so wound along another portion of said member that the inclination of said surface alternately increases
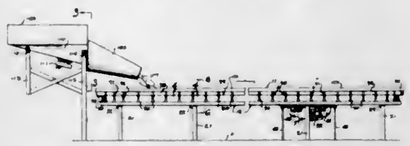
and diminishes in a range of more than ninety degrees, a cage slidably engaging said guide member and surface, an open bottle held in said cage in a definite direction relatively to said cage, said latter direction being vertically upright when said cage engages said first mentioned member portion, means moving said cage along said guide member whereby said cage and said bottle tilt oscillatingly when said cage slides along said other member portion, said cage having an opening positioned over said bottle in upright position of the latter, and an apertured element attached to said cage and positioned across said opening, each aperture of said element being narrower than said bottle whereby said bottle is prevented from falling out of said cage in tilted position.

2,614,681
ARTICLE-ORIENTING MECHANISM FOR LABELING MACHINES
Clarence E. Keil, East Peoria, Ill., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin
Application August 6, 1949, Serial No. 108,902
10 Claims. (Cl. 198—33)



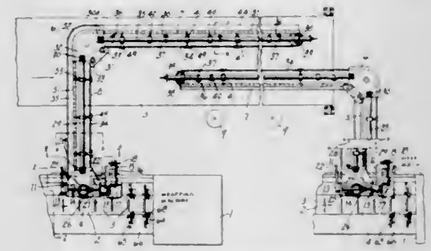
1. In a combination, in an article-orienting apparatus of the kind wherein successive articles, each having a projecting stop element, are delivered in succession to a spotting station, and having article-rotating means at the spotting station including a pair of spaced drive rolls engageable with the periphery of the article for rotating the latter, two spaced abutment rolls disposed respectively at opposite sides of a diameter of the article passing midway between the axis of the drive rolls, a detector located between the abutment rolls and engageable by the projection on the article as the latter is rotated by the drive rolls, and means for moving the two sets of rolls toward and from each other simultaneously.

2,614,682
CONVEYER SYSTEM FOR SPOOLERS AND THE LIKE
Gadsden E. Shand, Jr., Columbia, S. C.
Application September 1, 1950, Serial No. 182,823
7 Claims. (Cl. 198—60)



5. A conveyor system for textile machines on which yarn filled bobbins are adapted to be manually placed comprising an endless substantially U-shaped trough of flexible material adapted to extend through a circuitous route around the machine, means for introducing a continuous supply of filled bobbins to a given point in said trough, means for moving said trough past the said point, means supporting said trough comprising a plurality of spaced trough support members, each having at least one uprising prong thereon, a frame supporting the lower ends of the trough support members, a plurality of pockets on the outer surface of at least one of the walls of said trough and being penetrated by the corresponding prongs on the trough support members and movable means connected to the lower ends of said trough support members for imparting movement to the trough supports and the trough, the means for introducing the filled bobbins to said conveyor comprising a hopper having a chute extending therefrom to a point above the conveyor, and means for imparting vibratory movement to the hopper to cause the bobbins to move through said chute by gravity.

2,614,683
TRANSFER CONVEYER SYSTEM FOR ARTICLE WRAPPING MACHINES
John W. Smith, Battle Creek, Mich., assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich.
Application July 26, 1950, Serial No. 176,031
15 Claims. (Cl. 198—75)



1. A transfer conveyor system in combination with a pair of wrapping machines having infeed conveyors and a supply belt disposed in parallel laterally spaced relation to the infeed conveyors comprising, a pair of uprights secured to the framework of each infeed conveyor and projecting over the tops of said infeed conveyors, shafts journaled in the upper ends of said uprights parallel to said infeed conveyors, brackets swingably mounted on said shafts, head plates supported on said brackets, generally vertical shafts journaled in said head plates and having bevelled gear connections to said first shafts, a third shaft journaled on one of the uprights on each infeed conveyor and drivingly connected to said first shaft thereon, means connecting said third shafts to said infeed conveyors to be driven in timed relationship therewith, a drive sprocket carried on each vertical shaft beneath said head plates and having one portion of its periphery overlying the side of said infeed conveyor associated therewith, a pair of L-shaped supporting structures associated one with each of said infeed conveyors and each having one transverse leg secured to the head plate of its associated conveyor, the other legs of said structures being supported in oppositely extending parallel overlapping relationship over said supply belt, idler sprockets carried on said L-shaped structures, feed chains trained around said drive sprockets and said idler sprockets in parallel feeding and returning reaches, feed pins secured at intervals to said feed chains, oppositely facing loading platforms carried by said supporting structures underneath the feeding reaches of said feed chains and over said supply belt, feed chutes extending along said first legs of said supporting structures from said loading platforms thereof to the edges of said infeed conveyors underneath said drive sprockets,

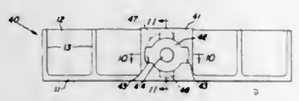
and spring closed gates projecting across the lower ends of said feed chutes and swingable outwardly thereof toward said infeed conveyors, said transfer conveyors being timed to advance one of said pins to the inner side of said drive sprockets as each successive pocket of the infeed conveyors approaches said drive sprockets.

2,614,684
CONTROL APPARATUS FOR CONVEYER SYSTEMS
Herbert E. Daniels, Orange, N. J., assignor to The Jampol Company, Inc., Brooklyn, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 146,315
4 Claims. (Cl. 198—82)



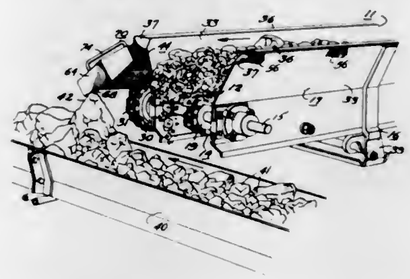
1. In a conveyor system including a pair of conveyors aligned in series along a common pathway, each conveyor having reversible driving means therefor, electrical control means for operating the driving means of one conveyor to move in a direction toward the other conveyor, and a second electrical control means for operating the driving means of the other conveyor to move in a direction away from the first conveyor, in combination, a weight-responsive control device associated with said first conveyor at a predetermined locality of its path, a circuit for said first control means energizable to operate the latter to effect operation of the first driving means in the aforesaid direction toward the other conveyor, said first control device including means in said first circuit, responsive to a predetermined weight on said first conveyor to interrupt the said circuit and thereby prevent operation of said first driving means, and means associated with the second control means and including switch means in said first circuit in parallel with the said circuit-interrupting means for maintaining operation of the first driving means when the second driving means is operating in the aforesaid direction away from the second conveyor.

2,614,685
CONVEYER FLIGHT AND CHAIN LINK
Robert S. Miller, Portland, Oreg.
Application November 17, 1947, Serial No. 786,463
9 Claims. (Cl. 198—176)



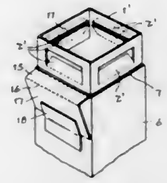
9. In a conveyor flight for a conveyor having a plurality of flights connected between end links in a chain, exterior wall portions on opposite sides of the flight having keyhole openings, and interior wall portions behind said exterior wall portions, said keyhole openings and interior wall portions comprising rotative engagement type connector means for connecting the flight to a pair of said end links in the chain, said interior wall portions comprising a pair of quarter turn arcuate passageways behind each said keyhole opening terminating in recessed seats for an end link.

2,614,686
GUARD FOR POWER-DRIVEN CONVEYERS
John B. Long, Fayetteville, W. Va.
Application July 12, 1950, Serial No. 173,431
9 Claims. (Cl. 198—203)



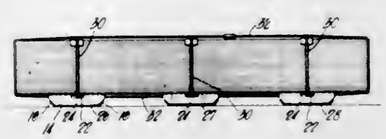
3. In a power driven conveyor of the type including an elongated head section at the material delivery end of which is located at transversally disposed head shaft, extending outwardly at each side of the head section, for imparting movement to a flexible, endless material moving member, and said head shaft driven from a power unit which may be selectively installed at either side of the head section, said power unit comprising a prime mover and motion transmitting means extending longitudinally of the head section and including a wheel secured to the selected outwardly extending end of the head shaft; the improvement which comprises a curtain-like guard member supported by the head section to confront said motion transmitting means at its side opposite the head section and extending from the delivery end of the head section, rearwardly along the motion transmitting means, said curtain-like guard member provided with a plurality of apertures adjacent its end nearest the delivery end of the head section, a wheel guard of angular cross-section comprising a first flange conforming generally to a segment of the periphery of said wheel, and a second flange in a plane normal to the plane of said first flange, said second flange provided with a plurality of apertures registering with the apertures of said curtain-like guard member, with the first flange of the wheel guard extending from that side of the plane of the curtain-like guard member nearest said wheel, said first flange extending about, but spaced from a portion of the periphery of the wheel adjacent the delivery end of the head section, and handle means detachably securing said wheel guard to said curtain-like guard member, said handle means comprising a U-shaped member, the arms of which are screw threaded and extend through said aligned apertures, and the bight portion of which serves as a handle, and nuts on said screw threaded arms, said wheel guard and handle means interchangeable as to position with respect to the side of the curtain-like guard member when the motion transmitting means is to be guarded when the power unit is disposed at the opposite side of the head section.

2,614,687
PAPER CUP DISPENSER
Carlotta Leath Roy, Toronto, Ontario, Canada
Application July 22, 1949, Serial No. 106,212
In Canada July 13, 1949
3 Claims. (Cl. 206—56)



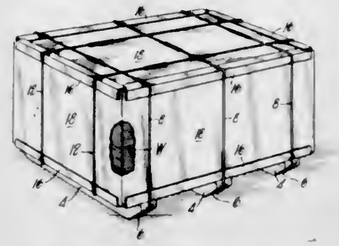
1. A dispensing device for a stack of nested articles comprising opposing pairs of upper and lower cantilever snap acting lips, means to support said lips in operative position at the end of a container holding articles to be dispensed and including a dispensing opening, said lips being of a material having a spring flexibility appreciably greater than either of said container or the articles to be received therein to be dispensed and their cantilever arrangement permitting said lips to displace under spring tension under pressure from an article being dispensed without distortion of the article, the upper lip of each pair being inclined downwardly and the lower lip of each pair being substantially horizontal with respect to the plane of said dispensing opening and defining with the upper lip a space therebetween to receive the upper edge of a single article to be dispensed, the planes of said upper and lower lips defining an acute angle therebetween with the upper and lower lips engaging an article being dispensed at different contact angles and the angle between the upper lip and article being less than the angle between the lower lip and article whereby movement of an article being dispensed is resisted through a greater deflection angle by the lower lips than the upper lips.

2,614,688
SHEET PACKAGE AND SKID THEREFOR
Rolf O. Hammer, Pittsburgh, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application December 14, 1949, Serial No. 132,845
2 Claims. (Cl. 206—60)



1. A package comprising a plurality of sheet-metal skids, each having two parallel sides with oppositely disposed slots therein and substantially open ends, said skids being arranged in pairs with the oppositely disposed side slots of each pair in alignment, said pairs being arranged in a spaced end to end arrangement to form two substantially parallel rows, a stack of sheets supported on said skids, tie wires passing through the aligned slots of each pair of skids and encompassing the pile of sheets and tie wires passing through the open ends of the skids in each row and encompassing the pile of sheets.

2,614,689
KNOCKDOWN TYPE PLATFORM FOR METAL SHEETS AND THE LIKE
Charles E. Miller, Pittsburgh, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application October 30, 1950, Serial No. 192,945
1 Claim. (Cl. 206—60)



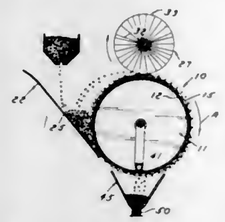
A shipping package comprising a plurality of elongated runners spaced in parallel relationship, each of said runners having a lengthwise groove in the bottom surface thereof and a plurality of spaced transverse grooves in the upper surface thereof, a flat base member loosely disposed on and supported by said runners, a pile of metal sheets disposed on and supported by said base member, an angle guard member disposed along the upper side and end edges and lower side and end edges of said pile of sheets for protecting the same, each of said runners having a notch at the top of each end thereof for accommodating the angle guard members disposed along the lower side edges of said pile of sheets, a tie band fitted in each of said lengthwise grooves and extending around said runners, said upper and lower side edge guard members and said pile of sheets for holding said runners in position against the bottom of said base member, and a tie band fitted into each of said transverse grooves and extending around said base member, said upper and lower end edge guard members and said pile of sheets transverse of said first named tie bands for securing said pile on said base member.

2,614,690
HYPOCHLORITE BLEACH CONTAINER
Alan C. Stoneman, San Marino, Calif., assignor to Purex Corporation, Ltd., South Gate, Calif., a corporation of California
Application July 21, 1950, Serial No. 175,084
4 Claims. (Cl. 206—84)



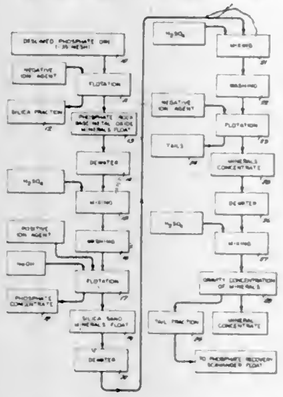
1. A hypochlorite bleach solution-containing bottle having a cap made of an aluminum base alloy consisting essentially of aluminum alloyed with between 0.1 to 0.5% chromium, and between about 0.5 to 4.5% magnesium.

2,614,691
SEED CLEANER AND SEPARATOR
Games Slayter, Newark, Ohio
Application December 17, 1951, Serial No. 262,087
22 Claims. (Cl. 209—91)



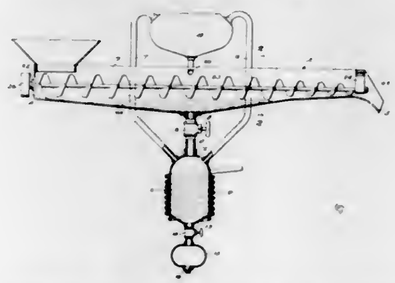
1. Apparatus for separating particles according to size comprising a drum supported for rotation and having a particle collecting cylindrical surface through which air may pass into the drum, means for depositing particles on the cylindrical surface at one side of the drum, means for withdrawing air from the space within the drum confined by the cylindrical surface at a rate determined to hold the particles on the cylindrical surface during rotation of the drum, and means for brushing particles off the drum surface spaced from said surface a distance determined to allow particles of a selected size to pass the brushing means.

2,614,692
RECOVERY OF METALLIC MINERALS FROM PHOSPHATE-SILICA ORES CONTAINING MINOR AMOUNTS OF THE METALLIC MINERALS
James E. Lawver, Lakeland, Fla., assignor to International Minerals & Chemical Corporation, a corporation of New York
Application June 8, 1948, Serial No. 31,841
13 Claims. (Cl. 209—166)



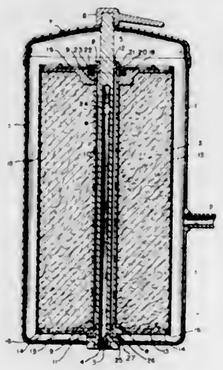
1. In a process of concentrating base-metal oxide type metallic minerals from phosphate-silica ores containing the metallic minerals in minor amounts, wherein the ore in a finely divided state is first subjected to a flotation operation employing carboxyl-containing negative ion agent to recover a phosphate-metallic minerals concentrate and the concentrate is subjected to a flotation operation employing nitrogenous positive ion agent to recover a silica-metallic minerals froth fraction, the improvement comprising subjecting said silica-metallic minerals fraction to at least one flotation operation in the presence of a reagent composition comprising at least one flotation collector reagent selected from the group consisting of carboxyl-containing negative ion agent, salts of said agent, and esters of said agent and adjusting the pH to separate a froth concentrate rich in metallic minerals.

2,614,693
AMALGAMATOR
Leonello Brunetti, Mountain View, Calif.
Application January 27, 1948, Serial No. 4,600
1 Claim. (Cl. 209—205)



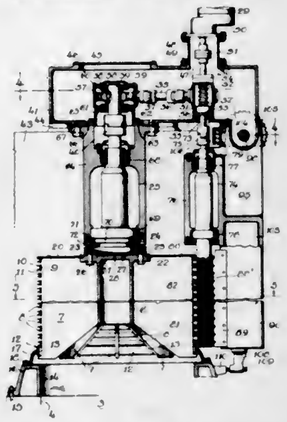
An amalgamator comprising an elongated U-shaped trough having a bottom sloping inwardly and downwardly from its opposite ends to the center thereof, a feed chute at one end of said trough and a discharge chute at the opposite end thereof, feed means comprising a spiral feed screw disposed horizontally within said trough directly under the feed chute, onto which material from the chute is delivered, a retort connected with the lowest point of said bottom, heating means disposed about said retort, a condenser, pipes connected with opposite sides of the retort at the top thereof, said pipes extending above the trough, said pipes being connected with said condenser at opposite sides thereof above the trough through which vaporized mercury passes to said condenser, and a pipe establishing communication between the condenser and trough whereby mercury in liquid form is delivered to the trough.

2,614,694
OIL FILTER CARTRIDGE
Olaf P. Sather, Duluth, Minn.
Application June 20, 1949, Serial No. 100,236
1 Claim. (Cl. 210—131)



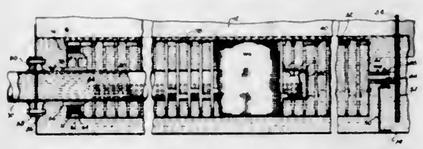
A repackable oil filter cartridge comprising a relatively thin metallic disc base having a groove in the periphery thereof, an elongated hollow cylinder of metallic mesh material carried by said base and extending therefrom in a direction normal to the plane of said base whereby a container is formed to receive filter material, a flange extending inwardly from one edge of said cylinder and into said groove to provide the mounting for said cylinder on said base and to rigidify the normal shape of said container, a tube carried centrally of said base and extending within and substantially axially of said cylinder, a cover carried by said tube to close the upper end of said container, said cylinder being split longitudinally, and fasteners for securing the longitudinal edges of said cylinder together to clamp same securely in place on said base and to release said edges to permit said cylinder to be sprung open whereby it may be readily removed from said base and whereby filter material packed therewithin may be readily removed therefrom.

2,614,695
ROTARY SCREEN COMMINUTING DEVICE
Carl H. Nordell, Palm Springs, Calif.
Application November 9, 1948, Serial No. 59,089
9 Claims. (Cl. 210—152)



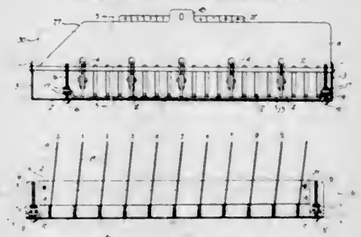
2. In combination with a comminuting device comprising a rotatably mounted cutting cylinder having a plurality of teeth projecting laterally therefrom and a comb positioned in juxtaposition to said cylinder and cooperating with said teeth to comminute solids, a rotatably mounted drum screen in cooperative relationship with the teeth of said cutting cylinder along a longitudinal line diametrically opposite the line of cooperative relationship between the teeth of said cylinder and said comb.

2,614,696
RECIRCULATION FILTER
Edward Crane, Ottumwa, Iowa, assignor to Barker Poultry Equipment Co., Ottumwa, Iowa, a corporation of Iowa
Application March 25, 1950, Serial No. 151,911
9 Claims. (Cl. 210—152)



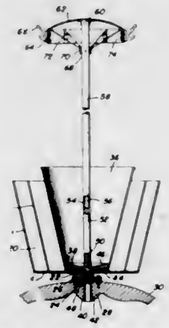
2. A filtering device comprising an elongated cylindrical drum adapted for being mounted submerged in a liquid in a container, the cylindrical surface of said drum being a filter screen through which the fluid passes to the interior of the drum, means for rotating said drum around its longitudinal axis, an elongated suction pipe passing through one end of said drum and extending within said drum parallel to the cylindrical wall thereof, the extended end of said suction pipe being closed, said suction pipe extending within said drum over the greater portion of the length of said drum, said suction pipe being positioned eccentric with respect to the axis of said drum, whereby the spacing between the cylindrical wall of the pipe and the cylindrical wall of the drum varies continuously around the circumference of the pipe from a minimum to a maximum and back to a minimum, a portion of the cylindrical wall of the pipe having intake holes therein providing for movement of filtered water into said pipe, said intake holes opening from said pipe generally in the same direction as the direction in which the pipe is offset from the axis of the drum, and a portion of the pipe being imperforate and cooperating with the rotating cylindrical wall of the drum and the fluid in the space therebetween to pump a portion of the fluid therebetween reversely through the screen to clean said screen.

2,614,697
SORTING APPARATUS
John W. Whitson, New York, N. Y., assignor of one-half to Clare H. Whitson, New York, N. Y.
Application February 15, 1950, Serial No. 144,281
7 Claims. (Cl. 211—10)



1. In a sorting apparatus, a casing, a plurality of partitions mounted in said casing, a plurality of selectively tiltable elements positioned transversely of said partitions in fixed spaced relationship to each other, the said elements and the said partitions forming a plurality of receptacles.

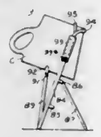
2,614,698
UTILITY RACK
Louis A. Bell, St. Louis, Mo.
Application March 23, 1948, Serial No. 16,419
7 Claims. (Cl. 211—62)



1. A utility rack comprising an outer container having an open upper end and a bottom wall, a

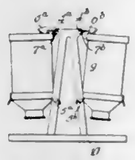
flanged hollow extension carried by the bottom wall, a stand, means securing the flanged portion of the extension to said stand, an inner container within the outer container and having a bottom, and a sleeve depending from the bottom of the inner container extending axially through the flanged hollow extension to retain the inner container relative to the outer container, said sleeve forming a drain.

2,614,699
CUP RACK
John W. Weisner, Highland Springs, Va.
Application February 24, 1950, Serial No. 145,927
3 Claims. (Cl. 211—71)



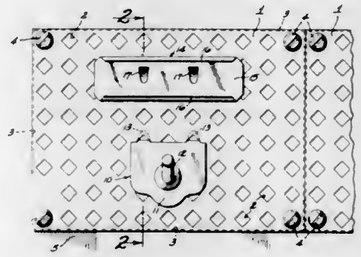
3. In a dish washing machine, a rack adapted to be fixedly positioned upon a supporting grille and comprising an upstanding frame including a longitudinal bottom element and spaced side elements rising from said bottom element, a plurality of upstanding rods arranged in longitudinal spaced relation along and spaced from one side of said frame and each having the lower end fixed to the bottom element of said frame, a cross arm fixed on the upper end of each of said rods, at least a pair of spaced longitudinally extending arms cooperating with said cross arms for supporting cups in inverted positions, a sleeve carried by each of the adjacent ends of said pair of arms and slidably receiving the upper end portion of the adjacent frame side element, and a securing element carried by each sleeve and engageable with the adjacent frame side element for holding said pair of arms in any select position of their movement.

2,614,700
RACK FOR MILK BUCKETS OR LIKE CONTAINERS
Jens Laurits Kjeldsen, Odense, Denmark
Application June 12, 1946, Serial No. 676,172
In Denmark November 23, 1945
3 Claims. (Cl. 211—75)



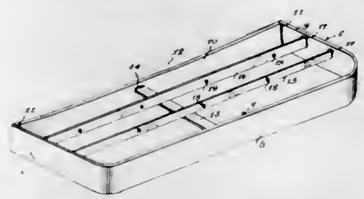
1. A rack for milk buckets or like containers provided with a cylindrical bottom flange, comprising a horizontal bar for supporting a plurality of containers adjacent each other in an inversed position at their top portions, means for engaging said containers at their upturned bottom flanges, said means including a horizontal axle and a plurality of pawls pivoted on said horizontal axle and each having an oblique end face adapted to be engaged by the bottom flange of a container when inserting the same in the rack so as to cause said pawls to be lifted selectively and subsequently drop behind said bottom flange for retaining the container in the rack, means for supporting said pawls in such position as to present their oblique end faces to said bottom flanges when inserting containers in the rack, and brackets supporting both said horizontal bar and said horizontal axle.

2,614,701
WALL DISPLAY FIXTURE
Donald L. Mapson, Los Angeles, Calif.
Application March 15, 1948, Serial No. 14,851
1 Claim. (Cl. 211—87)



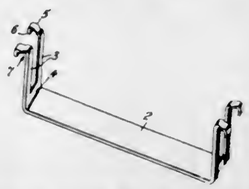
In a wall display fixture, the combination of: two sheets of rectangular outline having parallel rows of perforations formed therein which are also parallel with the opposite side edges of said sheets, the centers of said rows and the perforations therein being both uniformly spaced a given distance, the perforations of the outer rows of each sheet having their centers spaced from the adjacent side edges respectively of said sheet, a distance equal to one-half said given distance, said two sheets, when in use, being juxtaposed with adjacent side edges abutting, the center to center distance between the outermost rows of perforations of said two sheets adjacent the abutting edges of said sheets being thus equal to said given distance; a bracket adapted to support and display an article in a selected location within the area of said two sheets thus combined; and a pair of feet formed on said bracket, with the centers of said feet horizontally spaced apart a distance equal to said given distance multiplied by a whole number, said feet being adapted to support said bracket when inserted into corresponding perforations of different vertical rows of the same, which rows are spaced apart the same distance as said feet and located anywhere in said area.

2,614,702
COMBINATION HAT AND COAT RACK
Joel P. Riblet, Galion, Ohio
Application March 25, 1949, Serial No. 83,407
1 Claim. (Cl. 211—90)



A garment supporting rack comprising an elongated frame including front and rear frame portions and complementary end portions, each of said end portions extending between and being connected to complementary ends of the front and rear frame portions, said frame having a transverse brace extending between said front and rear portions and connected thereto intermediate of the ends of the frame, longitudinally extending braces disposed in the frame and connected to said end portions, said rear frame portion being adapted to assume a position in a plane substantially parallel to the plane of an upright supporting surface on which the rack is mounted, and separate mounting brackets adapted to be detachably fastened to the upright supporting surface and having upwardly extending portions spaced outwardly from the supporting surface and engaging the inner side of said rear frame portion at points spaced from the ends thereof for demountably supporting the rack in a position substantially perpendicular to the supporting surface and with parts of the rear frame portion fitting snugly between said upwardly extending bracket portions and parts of the upright supporting surface, said front and rear frame portions being formed of a resilient material, said rear frame portion being normally bowed inwardly with respect to the frame and being substantially straightened by engagement with the mounting brackets, when the rack is in an applied position, for yieldably holding the end portions of the rear frame portion in yieldable engagement with the supporting surface.

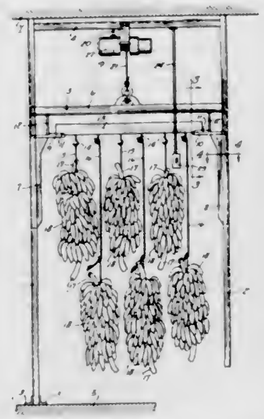
2,614,703
RECEPTACLE
Desmond Walter Molins, Felix Frederic Ruau, Norman Walter Jackson, and Cyril Graham Bruce, Deptford, London, England, assignors to Molins Machine Company Limited, London, England, a British company
Application March 21, 1950, Serial No. 150,842
In Great Britain September 9, 1949
3 Claims. (Cl. 211—114)



1. A cigarette receptacle comprising a base and two upstanding end walls, the upper part at least of each end wall comprising two upstanding limbs spaced apart from each other, each said limb comprising at its upper extremity a portion which is bent endwise of and away from the receptacle and also downwardly to form a hook, one at least of said limbs being distorted to form a projection extending outwardly sideways of the receptacle beyond a plane common to the edges of the base and end walls before such distortion.

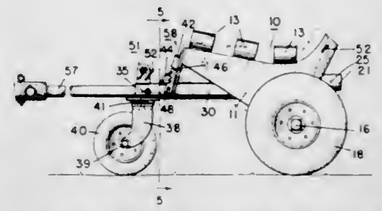
2,614,704
COMBINATION LOADING DEVICE AND HOIST FOR BANANA BUNCHES
Raymond M. Winslow, Minneapolis, Minn., assignor to Winston and Newell Company, Minneapolis, Minn., a corporation of Delaware
Application March 5, 1951, Serial No. 213,877
3 Claims. (Cl. 211—176)

1. In a device of the class described, a pair of laterally-spaced vertical guide frame members, a cross beam spanning said members and having its opposite ends slidably engageable with said guide frame members, opposed laterally-spaced load-carrying shelf elements rigidly secured to said cross beam and underlying same in vertically-spaced relation thereto, a loading beam, said loading beam having a vertical height less than the distance between said shelf elements and said cross beam whereby to permit opposite ends of said beam to be placed onto and removed from said shelf elements, and means limiting lateral



movements of said loading beam with respect to said shelf elements whereby said beams are removable laterally from said shelf elements only by first imparting vertical movements to said beam.

2,614,705
TREE MOVER
Milo G. Coplen, Rockville, Md.
Application October 19, 1948, Serial No. 55,361
17 Claims. (Cl. 214—3)



5. In a tree moving apparatus, a tree ball supporting cradle mounted on wheels, rearwardly extending and forwardly extending vertically pivotal drawbar attaching means, a drawbar having means for detachable engagement with either of said drawbar attaching means, and means enabling the drawbar to rock the cradle about the axis of its wheels while in engagement with either of said drawbar attaching means including movable stop means attached to the cradle rearwardly of the wheel axle and movable stop means attached to the cradle forwardly of the wheel axle, said stop means being operative to limit downward movement of the drawbar with respect to the cradle when engaged respectively with the rearwardly extending or forwardly extending drawbar attaching means.

2,614,706
LUMBER UNSTACKING AND DISTRIBUTING APPARATUS
Mortimer D. Barney, Robert I. Barney, and Edgar A. Jordan, Prineville, Oreg.
Application March 29, 1950, Serial No. 152,654
4 Claims. (Cl. 214—8.5)

3. A lumber unstacking apparatus comprising a frame, a series of rollers and chains on the

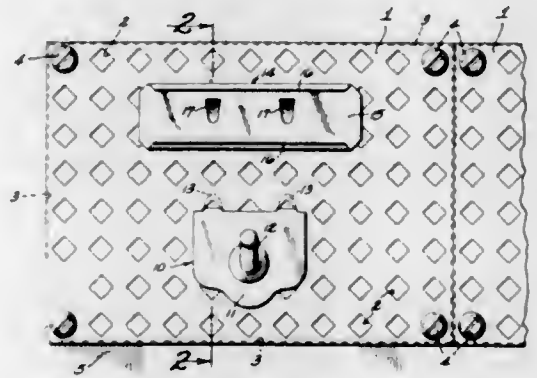
flanged hollow extension carried by the bottom wall, a stand, means securing the flanged portion of the extension to said stand, an inner container within the outer container and having a bottom, and a sleeve depending from the bottom of the inner container extending axially through the flanged hollow extension to retain the inner container relative to the outer container, said sleeve forming a drain.

2,614,699
CUP RACK
John W. Weisner, Highland Springs, Va.
Application February 24, 1950, Serial No. 145,927
3 Claims. (Cl. 211—71)



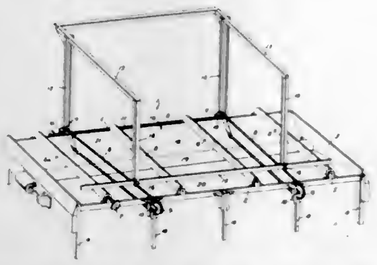
3. In a dish washing machine, a rack adapted to be fixedly positioned upon a supporting grille and comprising an upstanding frame including a longitudinal bottom element and spaced side elements rising from said bottom element, a plurality of upstanding rods arranged in longitudinal spaced relation along and spaced from one side of said frame and each having the lower end fixed to the bottom element of said frame, a cross arm fixed on the upper end of each of said rods, at least a pair of spaced longitudinally extending arms cooperating with said cross arms for supporting cups in inverted positions, a sleeve carried by each of the adjacent ends of said pair of arms and slidably receiving the upper end portion of the adjacent frame side element, and a securing element carried by each sleeve and engageable with the adjacent frame side element for holding said pair of arms in any select position when inserting containers in the rack, and brackets supporting both said horizontal bar and said horizontal axle.

2,614,701
WALL DISPLAY FIXTURE
Donald L. Mapson, Los Angeles, Calif.
Application March 15, 1948, Serial No. 14,851
1 Claim. (Cl. 211—87)



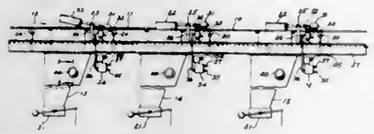
In a wall display fixture, the combination of: two sheets of rectangular outline having parallel rows of perforations formed therein which are also parallel with the opposite side edges of said sheets, the centers of said rows and the perforations therein being both uniformly spaced a given distance, the perforations of the outer rows of each sheet having their centers spaced from the adjacent side edges respectively of said sheet, a distance equal to one-half said given distance, said two sheets, when in use, being juxtaposed with adjacent side edges abutting, the center to center distance between the outermost rows of perforations of said two sheets adjacent the abutting edges of said sheets being thus equal to said given distance; a bracket adapted to support and display an article in a selected location within the area of said two

frame parallel to each other and extending transversely of the frame with said chains being inwardly of and spaced from the outermost rollers at both ends of the frame, said rollers and chains being positioned on the frame to support a pile of lumber, a series of bars supported on the frame to substantially embrace a pile of lumber on the rollers and chains, said series of bars comprising a pair of bars extending vertically from the frame with each bar adjacent one end of each chain, a second pair of bars connected at one end of each bar to the upper end of each of said first bars and extending over the frame transversely thereof, a third pair



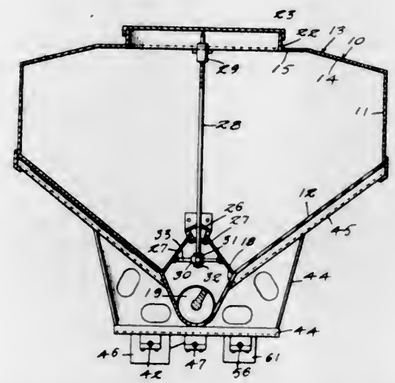
of bars connected at the upper end of each bar to the outer end of each of said last bars and depending therefrom in vertical relation to said last bars, the terminals of the last said bars terminating above and spaced from the chains, a longitudinal bar connecting the terminals of the bars which embrace the pile of lumber, means for operating the chains, a hopper disposed in the frame and below the rollers to receive strips interposed between the longitudinal layers of lumber to be sorted in the pile, as such longitudinal layers of lumber are ejected from the pile by the chains, and a conveyor in the bottom of the hopper.

2,614,707
CONVEYER APPARATUS
Henry L. Bilterman, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application March 23, 1950, Serial No. 151,497
7 Claims. (Cl. 214—17)



2. Apparatus for handling granular material including a movable endless conveyor, a plurality of receiving stations adjacent said conveyor, material deflectors individual to each station for transferring material from the conveyor to the stations, power means to move the deflectors into and out of transferring position, material responsive switches at each station closable by presence of a predetermined amount of material at each station, a pair of stepping switches, means associated with the first of said stepping switches responsive to a closed material responsive switch momentarily connected thereto to cause said stepping switches to be stepped in tandem to their next position, means associated with the second of said stepping switches to move one of said deflectors into transferring position in response to an open material responsive switch in the circuit to the first stepping switch, and timing means to cause said deflectors to be held in material transferring position a predetermined length of time after closure of their associated material responsive switches.

2,614,708
CEMENT CONVEYER
George O. Hoffstetter, Jerseyville, Ill.
Application February 23, 1951, Serial No. 212,290
2 Claims. (Cl. 214—17)

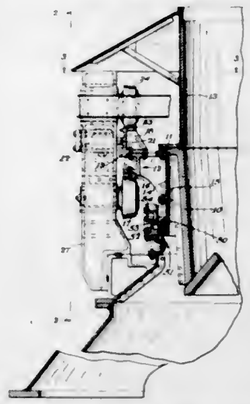


2. A material conveyor comprising a hopper body having a pair of downwardly convergent bottom wall members, a plurality of partitions dividing said body into a plurality of compartments, a conveyor housing projecting downwardly of said bottom wall members and disposed longitudinally of said body, a hopper discharge screw conveyor rotatable in said housing, a vertically disposed tubular elevator housing carried by one end of said hopper and having a lower intake opening communicating with said conveyor housing, an elevator screw rotatable in said elevator housing, means rotating said screw conveyor and elevator screw, an inverted V-shaped member fixed in said hopper above said conveyor housing, a plurality of pairs of valve plates, one pair in each compartment, pivotally carried by said V-shaped member and extending divergently downwardly into said conveyor housing, a block disposed between each pair of said valve plates, links pivotally connected between said block and said plates, a vertically disposed screw shaft swivelly secured to said block, a nut carried by said hopper body through which said shaft threadedly engages, vertical adjustment of said shaft swinging said valve plates to open or closed position, and a delivery member connected with and extending from said elevator housing.

2,614,709
REVOLVING DISTRIBUTOR
John Frank Baier, Cleveland, Ohio, assignor to Arthur G. McKee & Co., Cleveland, Ohio, a corporation of Delaware
Application June 20, 1947, Serial No. 755,935
5 Claims. (Cl. 214—37)

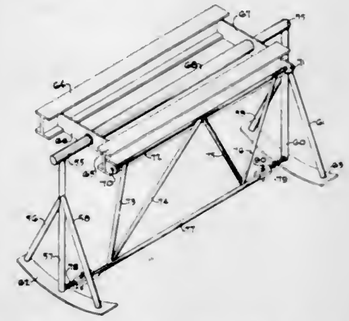
3. Sealing means for a revolving distributor of a blast furnace to prevent the escape of gases from the furnace around the small bell seat of said distributor comprising an annular skirt surrounding and connected to said seat for rotation therewith and defining an annular space with the seat, said skirt comprising a plurality of arcuately formed segments temporarily secured substantially fluid tightly together and having bifurcated lower edge portions defining an inverted

channel extending substantially around said seat and spaced therefrom, and a stationary rigid metal packing ring surrounding said seat and spaced therefrom having a portion disposed in



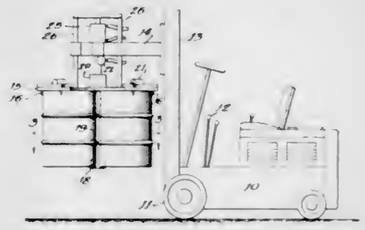
said channel to define with said bifurcated portion a passageway for a fluid, said ring comprising a plurality of arcuately formed segments secured detachably together and fastened to and extending upwardly from the top of the furnace.

2,614,710
APPARATUS FOR UNLOADING EQUIPMENT
James N. Gregory, La Habra, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 23, 1948, Serial No. 45,616
2 Claims. (Cl. 214—38)



1. In apparatus for removing a load from the bed of a movable truck, load-bearing support means comprising at least two independent frameworks spaced from each other by a predetermined desired distance, each of said frameworks having transverse and longitudinal structural members adapted to be positioned in a substantially horizontal plane on the bed of the truck between the bed and the load, the transverse members of each support means being substantially normal to the axis of motion of the truck and of a length substantially equal to the width of said truck, the longitudinal members being secured to said transverse members near the ends thereof, bearing means carried by each of said longitudinal members, a bar member rotatably mounted in said bearing means, the length of said bar member being in excess of the width of the truck and the body, cam means carried by said bar member at each end thereof, each of said cam means having the general shape of an irregular sector affixed at its center to said bar member for rotation in a vertical plane normal thereto, the radial distance from said center to at least one point on the periphery of said sector being shorter than said distance to another point of said periphery, said shorter radial distance being substantially equal to the distance from said support means to the ground on which the truck stands, horizontal bracing means detachably secured between said two cam means, said bracing means comprising bearing means affixed to one of the transverse members of said framework, a rod pivotally mounted in said bearing means, a bracing framework secured to said rod and pivotable therewith, said bracing framework being adapted to engage said cam means at substantially ground level when the load is supported on the cam means, and locking means respectively carried by said bracing and said cam means for detachably affixing said means to each other.

2,614,711
BARREL TRANSPORTING DEVICE
Harold S. Houser, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application November 30, 1949, Serial No. 130,133
9 Claims. (Cl. 214—75)

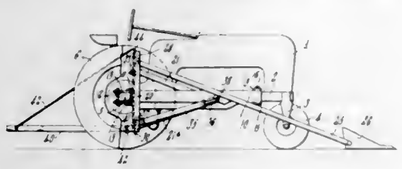


1. In an apparatus for handling up-ended barrels, the combination of a vehicle, a vertical elevator guide means rigidly carried by said vehicle, an elevating member movably mounted on and projecting from said vertical elevator guide means, an adjustable frame supported by said elevating member and arranged to be moved relative thereto, a plurality of laterally movable barrel-engaging means depending from said frame for engaging the upper periphery of a barrel arranged therebelow, a centrally disposed mast depending from said elevating member, laterally extendable and retractable lugs on the lower end of said mast adapted to engage the bottom of such barrel, and power means for raising and lowering said frame, said power means being connected to said elevating member and adapted to be raised therewith along said elevator guide means.

2,614,712
TRACTOR MOUNTED SHOVEL LOADER
Elmer A. Dingley, Natick, Mass.
Application April 19, 1946, Serial No. 663,331
1 Claim. (Cl. 214—131)

In combination with a tractor having a body portion and a rear axle member supporting the rear end of said body portion, of a pair of loader supports each having a longitudinal member provided at its rear end with means engageable with said rear axle member, means securing the forward ends of said loader support to said body portion, each loader support having a loader securing member at its rear end, a loader, means

securing the rear end of said loader to each of said loader securing members at a pair of positions at different elevations, said loader securing members each comprising a forwardly facing socket having side and bottom walls, said bottom



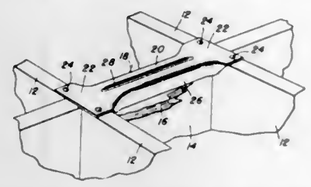
wall having a hole therein, a loader having a pair of members at its rear end each fitting within one of said sockets and having a projection engageable in said bottom wall, and means for securing the upper portion of each of said loader members within its respective socket.

2,614,713

REPAIR MEMBER FOR BOTTLE CASES

Einar C. Peterson, Mitchell, S. Dak., assignor of one-third to Richard P. Ellwein and one-third to Wilford L. Johnson, both of Mitchell, S. Dak.

Application March 15, 1948, Serial No. 14,887
1 Claim. (Cl. 217—19)



In combination with a bottle carrying case having crossed partitions therein forming separate cells, a U-shaped member adapted to be inverted upon the position of a broken partition as a replacement of a missing part thereof, the yoke portion of said member lying substantially in line with the tops of all of the named partitions, the cheeks of said member depending a considerable distance into a cell along said partition and spanning the space between two adjacent partitions between which the first named partition lies, extensions on the yoke portion by which to affix the latter to each of two spaced partitions, and a flange at the end of each cheek for attachment to said two adjacent partitions.

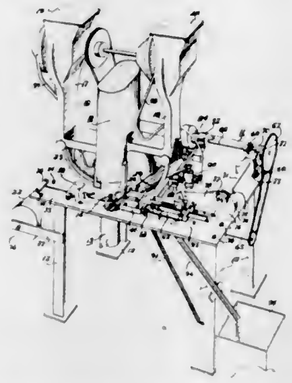
2,614,714

MACHINE FOR MOUNTING SNAP FASTENERS OR THE LIKE HAVING TAPE ADVANCING MEANS

William A. Erhardt, Jr., Philadelphia, Pa., assignor to Conso Fastener Corporation, Philadelphia, Pa., a corporation of New York

Application December 19, 1946, Serial No. 717,223
6 Claims. (Cl. 218—6)

1. For use with an automatic-feed machine having a self-stripping reciprocable punch for attaching grommets, eyelets, snap-fasteners or like elements to an elongated tape or the like; mechanism constructed and arranged to provide uniform and accurate spacing of said elements upon said tape, said mechanism comprising a guide-plate for said tape, an oscillating tape-advancing finger for momentarily gripping said tape at a point spaced from said punch and longitudinally intermediate the affixed elements and for moving said tape a predetermined distance between punching operations, a reciprocable locking-gate disposed in operative juxtaposition to said guide-plate between said finger and said punch, said locking-gate being constructed and arranged to move downwardly against said tape



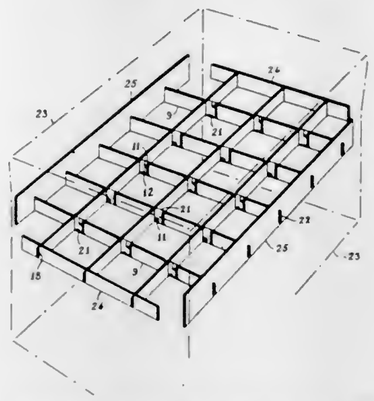
into the path of each successive affixed element and thereby to stop further movement of said tape at the end of each tape-advancing step, and yieldable means disposed on the other side of said punch from said locking-gate for frictionally restraining the forward movement of said tape thereby to keep said tape relatively taut during and after each punching operation.

2,614,715

CONTAINER PARTITION STRUCTURE

Cyril Roland Ross, Ilkley, England, assignor to Ross Bros. (Ben Rhydding) Limited, Ilkley, England, a British company

Application April 1, 1949, Serial No. 84,880
In Great Britain April 7, 1948
5 Claims. (Cl. 220—22)



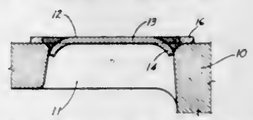
1. A partition structure adapted for insertion into a receptacle for dividing the same into a plurality of compartments, said structure comprising at least one main division member and at least two secondary division members, each main division member comprising at least three alined flat division sections integrally joined to each other through alternate flat U-shaped clips which extend laterally from the plane of said division sections, said U-shaped clips each comprising two flat walls lying parallel to each other, each clip wall being integral with one division section along one edge thereof and being integral with its other clip wall along another edge thereof, and each secondary division member comprising a flat strip seated in a clip between the two walls thereof.

2,614,716

CLOSURE MEANS FOR CAR COUPLERS

William J. Metzger, East Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio

Application October 22, 1947, Serial No. 781,279
1 Claim. (Cl. 220—24)



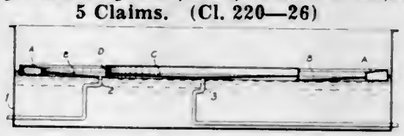
In combination with a car coupler having a top lock lifter opening, a cap closing said opening and secured to said coupler, said cap comprising a plate having a plurality of integral lugs inwardly of the edges of said plate extending downwardly and outwardly toward the walls of said opening, the ends of said lugs serving to position said plate with respect to the walls of said opening, said plate having an opening positioned outwardly of each lug and inwardly of the edge of the plate, the inner edge of each opening extending along the end of the lug, and weld material positioned in each of said plate openings and substantially filling the openings and securing said lugs to the walls of said coupler opening, said lugs in conjunction with said weld material forming a truss effect for strengthening said plate against bending or impact stresses applied thereto.

2,614,717

FLOATING TANK ROOF

John H. Wiggins, Chicago, Ill.

Application April 28, 1950, Serial No. 158,631
5 Claims. (Cl. 220—26)



1. A floating tank roof, comprising an annular peripheral pontoon of stiff construction, an annular, flexible deck portion attached at its outer edge to said peripheral pontoon and sloping inwardly from same, a stiff, annular-shaped rim attached to and projecting upwardly from the inner edge of said annular deck portion, and a central deck portion attached at its outer edge to said annular-shaped rim in a plane higher than the point of attachment of said annular deck portion to said rim, said central deck portion and rim being of sufficient weight to depress the inner edge of said annular deck portion into the buoyant liquid and maintain said deck portion in a downwardly-sloped condition.

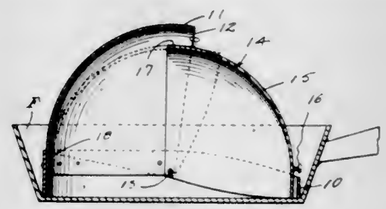
2,614,718

FRY SHIELD

Harvey K. Loop, Astoria, Oreg.

Application September 7, 1948, Serial No. 48,140
1 Claim. (Cl. 220—32)

A grease shield for mounting in a frying pan comprising a vertical circular base flange, a quarter-spherical fixed shield member including a semi-circular rim portion fixedly secured to said base, a movable shield member including a body of more than quarter-spherical configuration and engageable within said fixed shield member, said shield members being of substantially the same radius, and pivot means mounting said movable shield member on said base flange within said fixed member, the pivotal axis of said pivot means passing through the center of curvature of said movable shield member and



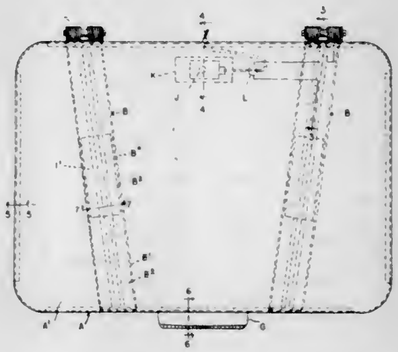
being vertically spaced below and inwardly from a line passing through the center of curvature of said fixed shield and parallel to said axis whereby said shield members form a substantially semi-spherical shield when extended relative to each other, the adjacent edges thereof overlapping and substantially spaced from each other at the top portion for venting the interior, the innermost edge of said movable member engaging the inner surface of said fixed member for limiting the inward movement of said movable member.

2,614,719

LID ASSEMBLY

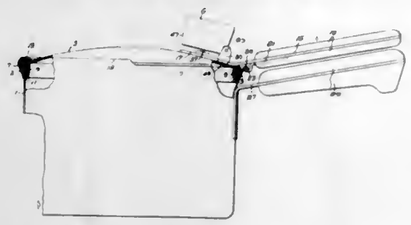
Harland W. Whitmore, Kenosha, Wis., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York

Application September 29, 1947, Serial No. 776,745
6 Claims. (Cl. 220—35)



1. The combination with a refrigerator cabinet having an opening, of a closure for said opening having a cover portion comprising a relatively light gauge sheet metal panel having a marginal depending flange, and means for reinforcing said light gauge sheet metal panel, including a channel-shaped metal bar extending across the underside of said panel and having downturned end portions upon the inner sides of the depending marginal flange of said panel, the base of said channel-shaped bar being rigidly secured in surface to surface relation to said depending marginal flange of said panel at opposite edges thereof.

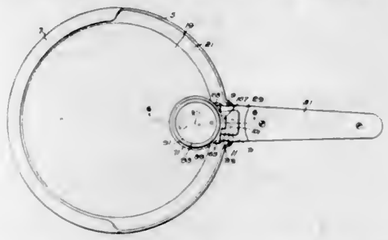
2,614,720
PRESSURE COOKER WITH PROTECTIVE SHIELD
William A. Welden, Stamford, Conn., and Glenn C. Wyman, Rome, N. Y., assignors to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application November 15, 1946, Serial No. 710,044
6 Claims. (Cl. 220—40)



1. A pressure cooker comprising a container and a cover therefor each rigidly carrying a radially projecting handle extension having a hand grip portion, means for securing the cover to the container operated into engaged position when said cover is rotated relative to said container to position said extensions in vertical alignment, said extensions when so positioned jointly forming a handle for the cooker adjacent the level of the cover, the cover having a vent opening at one side of its vertical axis, which vent opening lies between said axis and such cooker handle when said extensions are so positioned, a weight member operatively supported by the cover above said vent opening for vertical swinging, a pressure relief valve for said vent opening controlled by said weight member for regulating the steam pressure within the cooker when said cover is secured to said container by so positioning said extensions, which weight member presents a downwardly facing surface area in opposed relation to said cover extending radially beyond said vent opening in all directions to act as a shield against upwardly directed steam from said vent opening but causing steam to be discharged from beneath said weight member radially of said vent opening, the cover operatively carrying a pair of upwardly projecting ears positioned at opposite sides, respectively, of the axial line of the cover handle extension, on which ears the weight member is carried for its said vertical swinging, and a shield presenting an upstanding wall extending continuously transversely of the cover handle extension between said vent opening and the hand grip portion of said extension for substantially the entire width of said extension for protecting the pressure cooker handle from radially directed steam, said shield comprising a sheet metal plate operatively fixedly carried at opposite end portions thereof by said ears and extending continuously from one ear to the other.

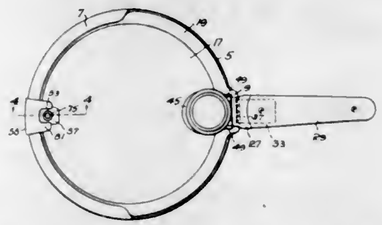
2,614,721
COVER LOCKING MEANS FOR PRESSURE COOKERS
Glenn C. Wyman, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application March 31, 1948, Serial No. 18,280
3 Claims. (Cl. 220—40)

1. A pressure cooker comprising a container, a cover formed with a vent opening, radially projecting handles carried by said container and cover, respectively, a weight valve swingingly mounted on the upper side of said cover, which weight valve has a position of swinging in which it controls said vent opening and another position of swinging in which it maintains said vent opening open, said container and cover carrying cooperating portions operated into engaged position by rotating the cover relative to the container to bring said handles into vertical alignment for securing said cover to said container in steam-tight relation, a lever swingingly mounted intermediate its length on the upper side of



the cover, one end portion of said lever carrying a downwardly projecting portion operatively adapted to cooperate with the container for preventing movement of said handles out of vertical alignment, the opposite end of said lever having a portion adapted to be engaged by said weight valve when the latter is swung into its said position in which it maintains said vent opening open for raising said downwardly projecting portion out of cooperation with said container for permitting said handles to be moved out of vertical alignment.

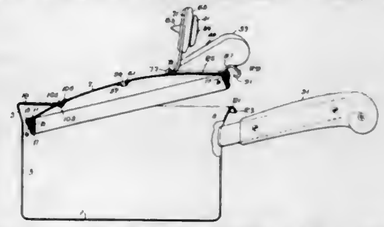
2,614,722
PRESSURE COOKER WITH AUTOMATIC VENT
Glenn C. Wyman, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application May 4, 1948, Serial No. 25,000
3 Claims. (Cl. 220—40)



1. A pressure cooker comprising a container, a cover for the latter, means for securing the cover to the container in closed relation thereto operated into engaged and released positions by rotation of the cover relative to the container, packing means for sealing against escape of pressure fluid from the cooker the joint between the cover and container when the cover is so secured, means for locking the cover against such rotation when the cooker is under pressure comprising a part carried by the container in overlying relation to the upper side of an edge portion of the cover when the cover is so secured to the container, said edge portion of the cover having an opening, a locking pin member received in said opening for vertical reciprocation from a lower position, in which position such overlying part is out of the path of said member when the cover is rotated, to an upper position in which said part is in such path to act as a stop for preventing rotation of the cover to its position which releases the first mentioned means; said member having a portion below the cover adapted to be exposed to pressure fluid within the cooker for moving said member to and maintaining it in its said upper position when the cooker is under pressure, spaced shoulders carried by the pin above and below the cover for maintaining said pin against removal from the cover, the cover having a vent opening normally constituting the sole means of escape of pressure fluid from the cooker when the cover is secured thereto, a safety valve for said vent opening operative to maintain a predetermined pressure within the cooker, which valve is manually movable to open position for relieving the pressure within the cooker for causing said member to move from its said upper position to its said lower position.

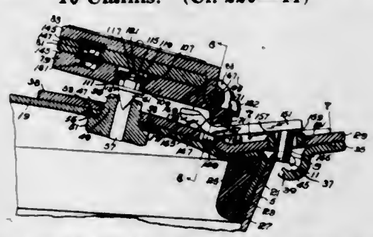
2,614,723
CLOSURE MEANS FOR PRESSURE COOKERS
William A. Welden, Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application June 15, 1946, Serial No. 677,043
14 Claims. (Cl. 220—40)

11. A pressure cooker having, in combination, a container comprising side walls presenting a cover receiving portion having an interior upwardly and outwardly flaring annular interior surface adjacent the container brim, means



forming an inwardly projecting lip carried by said side walls above said surface for part of the angular extent of the latter, means forming an outwardly projecting lip carried by said side walls for another part of the angular extent of said surface, a cover having a depending edge flange presenting an exterior downwardly and inwardly flaring annular surface, which flange is adapted to be rotatably received by said container portion when the edge portion of the cover is inserted beneath said inwardly projecting lip, and securing means on said cover adapted to move into cooperation with said outwardly projecting lip upon rotation of said cover when so received.

2,614,724
PRESSURE COOKER WITH SELECTIVELY ADJUSTABLE VENT VALVE
Glenn C. Wyman, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application May 13, 1948, Serial No. 26,862
10 Claims. (Cl. 220—44)



1. A portable pressure cooker comprising a container and a cover therefor, each having a handle projecting radially therefrom, means for locking the cover to the container enforcing positioning of the grip portions of such two handles in closely adjacent superimposed relation for causing them to act conjointly as a single handle grip for the cooker, the cover having a vent opening, vent controlling means for said opening comprising a vent valve adapted to be urged toward open position by pressure of the fluid to be vented and a vent controlling weight for urging said valve toward closed position in opposition to such pressure, one or more auxiliary vent controlling weights adapted to be supported by the first mentioned weight for augmenting the valve closing force exerted by the latter, each of said weights being operatively mounted on said cover for swinging about a horizontal axis laterally spaced from said opening for selective manual movement to its vent controlling position, in which position the center of gravity of the weight is at the same side of its axis of swinging as said opening, or to a position in which its center of gravity is at the opposite side of said axis and the weight thus maintained out of vent controlling position, whereby the first mentioned weight may be caused exclusively to control escape of fluid through said opening or that weight and one or more of said auxiliary weights may be caused to control it or such escape may be caused to be uncontrolled by any of said weights, said vent opening being positioned adjacent the base of the cover handle, said horizontal axis of swinging of each weight being transverse to and intersecting the vertical plane which includes the longitudinal axial line of the grip portion of the cover handle and being positioned between the vent opening and such grip portion, the first mentioned weight having an under side of enlarged area which when said weight controls said valve is positioned above said vent opening to act as a shield against upwardly directed steam from said vent opening, each weight being swingable about its said axis of swinging toward and away from said grip portion of said cover handle for securing the selected positions of arrangement of said weights, the swinging movement of the first mentioned weight when swung toward said last mentioned grip portion being limited to a position in which said under side of that weight is directed upwardly and interposed between said vent opening and such grip portion so as to act to shield the latter against steam escaping from said vent opening.

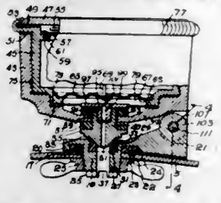
2,614,725
PRESSURE COOKER AND THE LIKE
William A. Welden, Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application September 6, 1946, Serial No. 695,128
1 Claim. (Cl. 220—44)



A pressure cooker cover having a handle extension provided with a grip portion, said extension having a base portion conforming to the upper side of the cover and secured thereto, said base portion being provided with a vent opening for the cover and carrying upstanding ears spaced transversely thereof and positioned between said vent opening and said grip portion, a relief valve for controlling said vent opening,

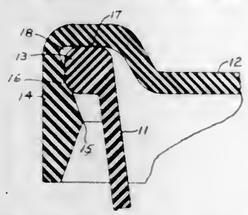
a weight for controlling said valve having a bottom surface in closely adjacent relation to the upper side of said base portion, and means mounting said weight adjacent its bottom surface at one side thereof on said ears for swinging about a horizontal axis.

2,614,726
PRESSURE COOKER
William A. Welden, Stamford, Conn., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
Application February 19, 1947, Serial No. 729,443
2 Claims. (Cl. 220—44)



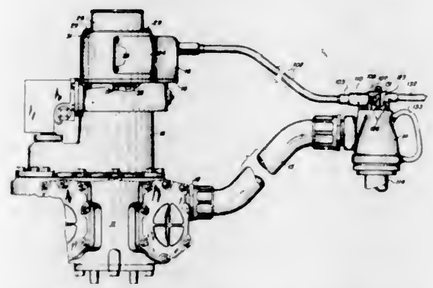
2. A portable pressure cooker comprising a container, a cover for said container, said container and cover having radially extending handles, means for securing the cover to said container in steam tight relation thereto enforcing the handle for the cover to be in superimposed relation to the handle for the container and with said handles in closely spaced relation whereby the two handles when so positioned act as a single handle for the container and attached cover, said cover being formed with an upwardly facing opening the axis of which lies in a vertical plane that includes the longitudinal axis of the radially extending handle for the cover, a part having a screw-threaded shank rotatably extending through said opening, a vent passage extending through said shank and opening on the upper side of said part, a weight including a pressure indicator having a cooperating pointer and upwardly facing calibrated dial, a horizontal hinge for said weight, said part having an integral lateral extension, said hinge being carried by said lateral extension and rotatable with said shank to enable the positioning of the axis of the hinge transverse to the longitudinal axis of said cover handle and between said handle and vent passage, a downwardly facing valve for said vent passage carried by said weight, which valve is formed with a passage for admitting pressure fluid from the vent passage to said pressure indicator, and a nut on said shank beneath said cover for clamping said part to said cover in predetermined selected rotative positions relative thereto.

2,614,727
CONTAINER AND CLOSURE THEREFOR
William H. Robinson, Dayton, Ohio
Application March 11, 1949, Serial No. 80,875
1 Claim. (Cl. 220—60)



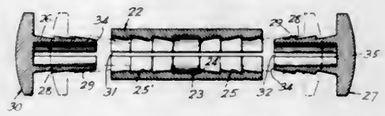
A container comprising a cover portion and a body portion, said cover portion and body portion being of materials at least one of which is relatively flexible and stretchable, said body portion being provided with a beaded edge along the mouth thereof having a top surface, an outer surface and an overhanging under surface with said surfaces being joined by rounded corners, said cover portion being spaced from the inner periphery of said beaded portion and formed integrally with a downwardly extending skirt of solid cross section provided on its inner face with contoured generally conical surfaces tapering inwardly from both the upper and lower portions of said skirt and meeting substantially in a ring of minimum diameter less than the diameter of the bead, said ring of minimum diameter when said cover is in operative position on said container being spaced below the lower surface of the bead and from the body of the container, the upper tapering inner wall surface of said skirt forming an acute angle with the outer surface of said bead such that said tapering surface contacts a limited area at the lower outside surface of the bead in sealing engagement and produces a downward force component to draw said cover into a second sealing engagement with the top surface of the bead in spaced relation with the first said sealing engagement, whereby a dead air space is formed between said cover and said beaded edge spaced from the two points of sealing engagement.

2,614,728
REPEAT VALVE SHUTOFF MECHANISM
Earl M. Kreidler, Pittsburgh, Pa., assignor to Rockwell Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 6, 1949, Serial No. 97,353
8 Claims. (Cl. 222—20)



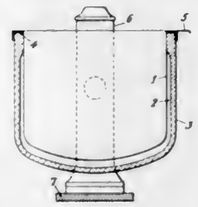
1. In a system for repeatedly dispensing a predetermined quantity of liquid, a meter driven by the liquid to be dispensed, a register assembly driven by said meter, an outlet conduit for said meter, a nozzle on the conduit containing a flow control valve, a motion transmitting member extending between said register assembly and said nozzle, means for manually actuating said valve to open said valve, having a part coacting with said motion transmitting member to shift said member in the movement of the valve to open position, means for latching said shifted member, resilient means biasing said member to normal position and energized during said opening of the valve to urge said member in a direction to effect closure of said valve, and means driven by the meter for tripping said latching mechanism to permit said resilient means to actuate said member and transmit motion to said valve actuating means in valve closing direction to effect closure of the valve after a predetermined quantity of liquid has been dispensed through said nozzle.

2,614,729
COLLAPSIBLE TUBE ROLLER
Albert H. Jung, Flushing, N. Y., assignor to Victor Industries Corporation, Brooklyn, N. Y., a corporation of New York
Application August 11, 1949, Serial No. 109,683
9 Claims. (Cl. 222—99)



2. A three part roller comprising a longitudinally slotted resilient sleeve and a pair of identical headed and longitudinally slotted resilient tubular end parts each adapted to be telescoped into an end part of the interior of the sleeve for engagement with an inner surface of the sleeve with the slots of the sleeve and said end parts in longitudinal alignment, the outer diameter of part of the tubular portion being greater than the diameter of that part of the sleeve engaged thereby to expand the sleeve and to contract the tubular end parts on the telescoping of the end parts into the sleeve by relative axial movement thereof, each of the end parts being removable from the sleeve independently of the other by an outward axial movement.

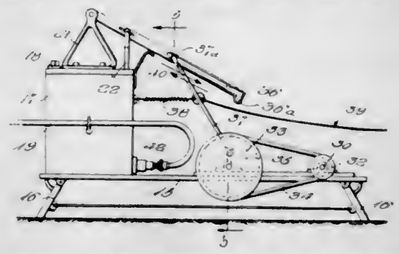
2,614,730
BOILING PAN
Carl August Steen, Getinge, Sweden
Application August 7, 1947, Serial No. 767,195
In Sweden January 24, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires January 24, 1960
4 Claims. (Cl. 222—131)



1. In a steam heated, tiltingly mounted boiling pan, inner and outer jackets spaced apart and enclosing a steam space therebetween, an upper frame connected to the upper edge of said inner jacket and having an upper plane and ring-shaped surface extending outwardly from said upper edge of said inner jacket, a plane pouring lip secured to said frame and extending beyond the outer surface of the pan a smooth and plane surface of such a radial extension, at least $\frac{1}{16}$ of the diameter of the inner jacket, that the liquid content on tilting the pan is contracted on said smooth surface to form a narrow, coherent stream.

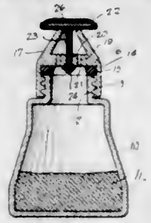
2,614,731
POWER-DRIVEN LUBRICATING APPARATUS
Owen White, Jr., Sibley, Iowa
Application April 25, 1947, Serial No. 743,852
2 Claims. (Cl. 222—333)

1. In a portable power driven apparatus for dispensing lubricants, a lubricant supply tank, a flexible carried conduit operatively connected with the tank, plunger means reciprocable within the tank for forcing the lubricant into the carrier conduit, and movement imparting means for the plunger means, said movement imparting means comprising an arm pivotally supported by the tank, a pivotal connection between said arm and the plunger means, a power source, a rotatable crank shaft driven by said power source, a rod operatively connected to said rotatable crank shaft said pivotally mounted arm having a longitudinal slot therein, a member on said rod extending through and movable in the slot,



means to hold said member against the end of the slot remote from the pivotal connection between the arm and the plunger means whereby rotation of said crank shaft reciprocates said plunger means, and spring means operatively connected with said tank and rod to urge said member towards the opposite end of the slot when the holding means is inactive to prevent reciprocation of the plunger means during rotation of the crank shaft.

2,614,732
MOISTUREPROOF SALT SHAKER
Julius Pararra, Bridgeport, Conn., assignor to Pararra-Lefer, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application June 23, 1948, Serial No. 34,719
2 Claims. (Cl. 222—511)



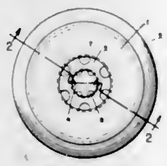
1. A shaker for salt and similar material including a container with a relatively small discharge opening at the top surrounded by a relatively narrow rim, a support inwardly of the discharge opening permitting passage of the material to the discharge opening, a closure for the discharge opening on the outer side thereof and including a resilient rubber under side resting on the rim, a resilient elastic shank connected to and extending from the under side of the closure through the discharge opening and connecting the closure with the support, said shank being under stress so that it automatically retains the under side of the closure against the rim over the discharge opening, and said closure including a portion extending outwardly beyond the rim of the discharge opening so as to overhang this rim and which overhang is free to move downwardly by pressure on its top surface so that it forms a finger grip which on downward pressure rocks the shank and closure toward one side of the rim of the discharge opening as a pivot to shift the opposite side of the closure away from said rim to permit passage of the material from the container.

2,614,733
HOPPER DOOR UNIT AND MATERIAL SPREADER ASSEMBLY FOR AIRPLANES
William H. Anderson, Stockton, Calif.
Application May 5, 1947, Serial No. 745,922
3 Claims. (Cl. 222—512)



1. A hopper door unit for a material distributing airplane which includes a material hopper, said unit comprising longitudinal side beams secured to opposite sides of the hopper adjacent the bottom thereof, cross beams connecting opposite ends of the side beams, a central longitudinal rail connected between the cross beams and extending in clearance relation under said hopper, a door disposed between the bottom of the hopper and said rail adapted to slide lengthwise of the latter between open and closed positions, the side beams overhanging and being close to the gate, side elements depending from the side beams to guide the door, means supporting the door on the rail for such sliding motion, means connected to the door to slide the same, a gasket on the bottom of the hopper, the door being relatively free of the gasket during the major part of its travel, and cam means between the rail and door operative to elevate the door into frictional contact with the gasket when the door is closed.

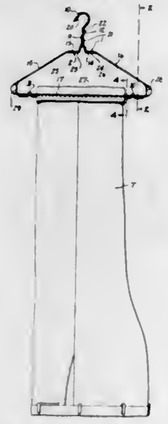
2,614,734
SHAKER-DISPENSER
Stanley S. Slyk, Chicago, Ill., assignor of one-half to Frederick J. Spencer and Edward Spencer, both of Chicago, Ill.
Application July 26, 1950, Serial No. 175,975
10 Claims. (Cl. 222—565)



1. A shaker comprising a hollow body having an end wall, an inwardly projecting portion on said end wall spaced from the sides of the body and having a pair of angularly disposed intersecting surfaces one of which is inwardly facing, and the inwardly facing surface of said portion having a plurality of perforations each of which is partially bounded by the edge of the other surface.

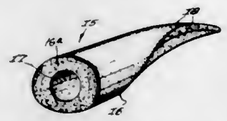
2,614,735
GARMENT HANGER
Clarence B. Williams, Grass Valley, Calif.
Application September 29, 1950, Serial No. 187,399
5 Claims. (Cl. 223—91)

1. A garment hanger having divergent sloping portions and a transverse portion, said garment hanger including two triangular frames in adjacent relation to each other, each of said frames having divergent sloping shoulder-supporting members forming the sloping portions of said hanger and a transverse bar forming the transverse portion of said hanger, said triangular frames being in releasable engagement with each other by means of loop members on said transverse portion adjacent its ends thereof, each of said loop members being integral with one of said transverse bars of said transverse portion



and engaging an adjacent transverse bar of said transverse portion to form a pair of resiliently separable garment engaging elements, said frames being capable of independent use as conventional garment hangers when disengaged.

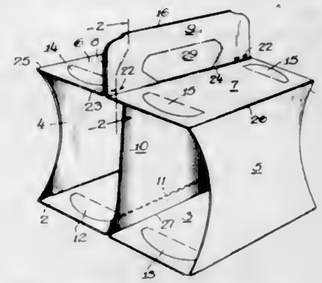
2,614,736
REMOVABLE SHOULDER PAD FOR HANGERS
Renee Sarti, New York, N. Y.
Application June 15, 1950, Serial No. 168,290
3 Claims. (Cl. 223—92)



1. A removable shoulder pad for engagement on the end of the cross bar of a clothes hanger, comprising a one-piece body of resilient material having a collar portion and a roof portion, said collar portion being tubular and elliptical in cross section and having a hole extended longitudinally from end to end thereof to frictionally receive and grip the end of the cross bar with the greatest dimension of the collar portion extended horizontally, said roof portion comprising an outwardly and downwardly projected triangular extension on the outer end of the top wall of said collar portion for extension beyond the free end of the cross bar, said triangular extension having its sides converged to an apex at the outer end thereof.

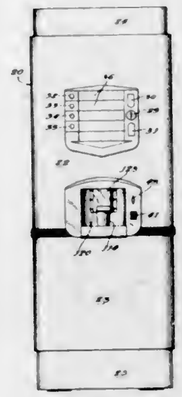
2,614,737
CAN CARRIER WITH FOLDABLE HANDLE
George H. Parker, Chicago, Ill., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application August 24, 1950, Serial No. 181,213
3 Claims. (Cl. 224—45)

1. A can carrier formed of paperboard or the like, comprising a pair of parallel compartments separated by a centrally disposed partition, each of said compartments having a top wall, the inner edges of the top walls terminating adjacent opposite faces of the partition, a flange extending upwardly from the inner edge of each of the top walls, a plurality of staples joining the flanges together to form a carrying handle, the partition extending between said flanges to reinforce the handle, the side edges of said parti-



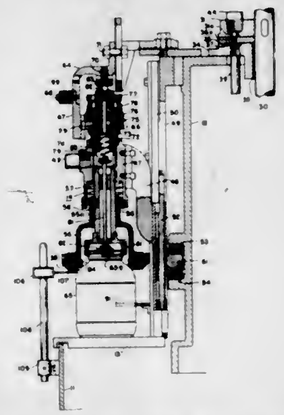
tion being recessed to provide clearance for the staples, whereby the staples may secure the handle forming flanges together without penetrating the partition to permit folding of the carrying handle substantially flat against either top wall without tearing the partition.

2,614,738
BEVERAGE DISPENSING MACHINE
Bert E. Mills, St. Charles, Ill., assignor to The Bert Mills Corporation, Chicago, Ill., a corporation of Illinois
Application September 28, 1948, Serial No. 51,518
27 Claims. (Cl. 225—21)



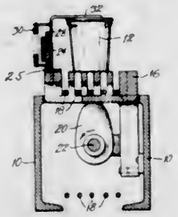
1. In a beverage dispensing machine: a measuring vessel for receiving and measuring a liquid ingredient of the beverage; a mixing recepetacle in communication with said measuring vessel; a valve in the line of communication between said vessel and said receptacle; means controlled by the liquid level in said vessel for causing movement of said valve to open position when a predetermined quantity of the liquid ingredient has been received by said vessel, thereby permitting a measured quantity of said liquid ingredient to flow into said mixing receptacle; a container for a second ingredient for the beverage; a discharge opening in said container in communication with said mixing receptacle; a movable member horizontally disposed in said container with an end of said member contiguous to said discharge opening; motivating means connectable to said member for moving the same to cause it to forcibly eject a predetermined quantity of said second ingredient through said opening and into said mixing receptacle by said member upon movement thereof; and means controlled by the opening of said valve to initiate action of said motivating means and thereby cause the ejection of said second ingredient after the flow of said liquid ingredient into said mixing receptacle has begun.

2,614,739
VACUUM PACK MACHINE
Felice George Pasotti, Muncie, Ind., assignor to Ball Brothers Company, a corporation of Indiana
Application August 30, 1946, Serial No. 694,132
19 Claims. (Cl. 226—82)



1. In a machine for sealing containers under vacuum, a movable support for containers to be sealed; means for moving said support; an air bell movable with said support; means for moving said bell to engage and disengage a container on said support; and an automatic stop mechanism positioned to engage a container engaged by and moving with said air bell during a disengaging movement of said bell, and to stop the movement of said support and said bell.

2,614,740
CUP DEPRESSOR
Frank T. Moser, Easton, Pa., assignor to Limpert Brothers, Incorporated, New York, N. Y., a corporation of New York
Application March 2, 1949, Serial No. 79,249
5 Claims. (Cl. 226—93)



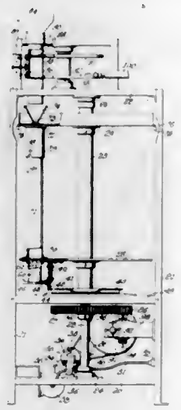
1. In a cup filling machine for ice-cream having cup advancing means and an elevating member therefor, a body member having a base fixed to said elevating member, a member on said body member and movable vertically relatively thereto, and horizontally extending projections on said slidable member, whereby when said cup is raised by movement of the elevating member, said projections on said slidable member will engage the upper edge of the cup.

2,614,741

GRAVITY FILLING MACHINE WITH PNEUMATICALLY DISCHARGE CONTROLLING CUTOFF

William E. Gross, Joppa, Md.

Application June 9, 1949, Serial No. 98,121
2 Claims. (Cl. 226—97)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



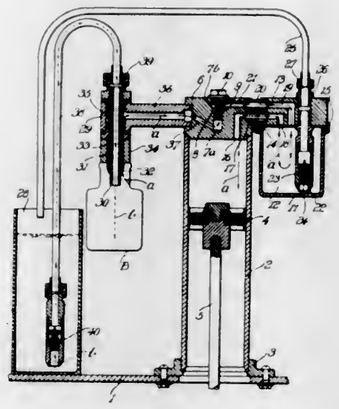
1. Automatic apparatus for successively depositing charges of granular material in a plurality of receptacles revolving about a common center, each of said receptacles having an outer circular wall surrounding an inner longitudinal member having an upper end portion and a base provided with a central aperture, said longitudinal member being inserted in said aperture and being free for limited movement at said upper end portion prior to the depositing operation of said apparatus; a series of vertical filling tubes each of which revolves about said common center and is arranged to provide for the free fall of said material into one of said receptacles from a substantial altitude, a metering means for uniformly delivering a predetermined amount of said material to each of said tubes; a hopper means for the delivery of said material into said metering means, a series of chucks each of which is arranged to guide and hold one of said receptacles in such a manner that said longitudinal member is in centered relationship with said wall and in the aperture of said base during said depositing operation; a receiving station for engaging said receptacles in said chucks; a delivery station for discharging said receptacles from said chucks; a pneumatically operated piston and link assembly having two pistons, one of which is arranged to be moved forward and backward and in sequence to open and close said metering means; a valve for reversing the movement of said assembly, a pivotally mounted actuating arm for reversibly actuating said valve; a roller mounted adjacent to the outer periphery of each of said tubes and arranged to move with its adjacent tube and into and out of contact with said arm in a manner whereby said piston assembly will be moved into one operating position when the roller is out of contact with said arm; the other of said pistons being operatively connected to said valve and arranged to move said receptacles into engagement of said chucks and means arranged to provide concurrent operation of each of said pistons by said valve.

2,614,742

APPARATUS FOR CHARGING CONTAINERS WITH MEASURED QUANTITIES OF LIQUID

Arthur Herbert Price, London, England, assignor, by mesne assignments, to Gaskell & Chambers Limited, Birmingham, England, a corporation of Great Britain

Application January 30, 1948, Serial No. 5,233
In Great Britain August 16, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires August 16, 1966
13 Claims. (Cl. 226—113)



1. Apparatus for dispensing measured quantities of liquid comprising a cylinder, a piston slidable in and forming with the cylinder a pulsating pump of predetermined maximum effective piston displacement, a chamber, a continuously open passage between the pump and the chamber, said chamber having a predeterminedly larger volumetric capacity to the level of said passage than the maximum effective displacement of said piston, an inlet conduit communicating with said chamber, a non-return valve in the inlet conduit opening under suction in the chamber and closing under pressure in the chamber, an outlet conduit communicating with the chamber at a lower level than said passage, a non-return valve in the outlet conduit opening under pressure in the chamber and closing under suction in the chamber, whereby the pump on the suction stroke draws a given volume of fluid through the inlet conduit into said chamber, and supplemental valve means associated with the pump whereby on the pressure stroke thereof a volume of air predeterminedly larger than the said given volume is forced into said chamber to preclude entry of liquid into said passage and pump.

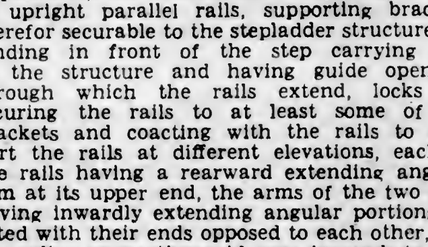
2,614,743

TURNTABLE CONTROL MEANS FOR AERIAL LADDERS

Edmund J. Arps, Oshkosh, Wis., assignor, by mesne assignments, to Maxim Motor Company, Middleboro, Mass., a corporation of Massachusetts

Application September 28, 1946, Serial No. 700,039
6 Claims. (Cl. 228—14)

1. In a fire apparatus a chassis, a ladder supporting turn table mounted on the chassis for rotation, power means operable to effect rotation of the table on the chassis, control mechanism movable from a neutral position to an operative position to initiate operation of the power means, a brake operable to lock the table against rotation, a handle for effecting operation of the brake, a block movable into and out of a position to intercept and block movement of the



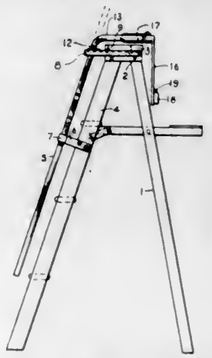
control mechanism from its neutral to its operative position, and means connected to the brake handle and operable thereby on application of the brake to move the block into blocking position.

2,614,744

HANDRAIL AND SHELF CONSTRUCTION FOR STEPLADDERS

Mead Hedglon, Syracuse, N. Y.

Application March 28, 1950, Serial No. 152,389
2 Claims. (Cl. 228—67)



1. A hand rail and leg brace attachment for stepladders, the attachment comprising a pair of upright parallel rails, supporting brackets therefor securable to the stepladder structure extending in front of the step carrying legs of the structure and having guide openings through which the rails extend, locks for securing the rails to at least some of the brackets and coacting with the rails to support the rails at different elevations, each of the rails having a rearward extending angular arm at its upper end, the arms of the two rails having inwardly extending angular portions located with their ends opposed to each other, and a coupling connecting said opposing ends to hold the rails spaced apart and parallel in accordance with the width of the step supporting legs.

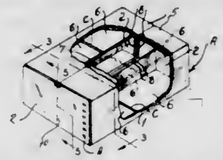
2,614,745

DIVISIBLE CARTON

Clifford D. Fallert, St. Louis, Mo., and George E. Whalley, Detroit, Mich., assignors to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland

Application February 3, 1947, Serial No. 726,030
1 Claim. (Cl. 229—27)

A completely sealed one-piece rigid carton constituting a pair of divisible smaller connected-together rigid cartons, said carton comprising one-piece end walls each having upper and lower marginal flaps coextensive in length and the free ends of which flaps are in alignment and terminate substantially midway of the length of each of the smaller cartons, said upper and lower end wall marginal flaps being spaced apart their entire width along the longitudinal center line of said carton, side walls each having inturned upper and lower marginal flaps coextensive in length therewith and with each other and folded upon and with their inner surfaces permanently secured flatwise to the outer surfaces of said end wall flaps, said side wall flaps meeting along said



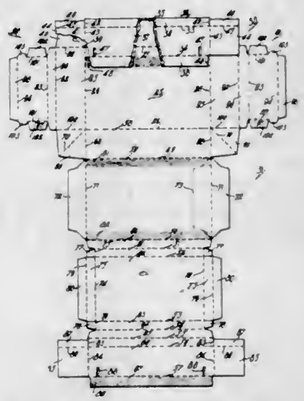
longitudinal center line, said side wall flaps having tuck flaps coextensive in length therewith along their meeting edges, the tuck flaps extending inwardly into said carton through the said longitudinal spaces between said end wall flaps with the free edges of the tuck flaps being in abutting and aligned relation to form a center longitudinal double walled partition, whereby said carton is adapted to be divided into two independent smaller cartons by severing each of said end walls from top to bottom substantially at a point where the longitudinal center line intersects the edge of each end wall.

2,614,746

CARTON

William P. Frankenstein, Cincinnati, Ohio

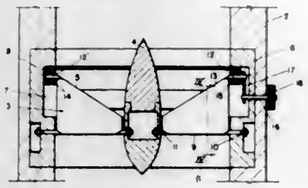
Application October 9, 1947, Serial No. 778,971
5 Claims. (Cl. 229—33)



1. In a box or carton formed from a knockdown single blank of card or paper-board material comprising a base, upstanding walls from the sides of said base, each of said walls comprising a top wall member of appreciable width from the longitudinal edges of which depend inner and outer wall members, said inner and outer wall members depending to the base with one of said wall members of each wall secured to the said base, and the other of said members of, at least, two opposed walls secured to said base inwardly of the edges thereof a distance equal to the width of the top wall member, and

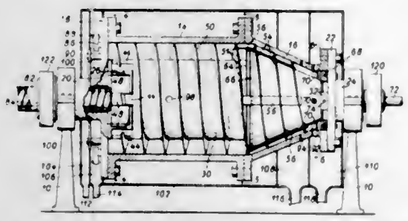
a cover comprising upper and lower spaced panels with the upper panel hingedly connected to the upper end of the outer wall member of at least one of the upstanding walls for swinging movement to a closed position onto the upstanding walls top wall members and said lower panel having its one end secured to the upper panel inwardly of its hinge connection with the outer wall member a distance equal to the width of the top wall member.

2,614,747
GASEOUS FLOW REGULATOR
Sabinus H. Christensen, Boston, Mass., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application April 15, 1948, Serial No. 21,249
2 Claims. (Cl. 230—114)



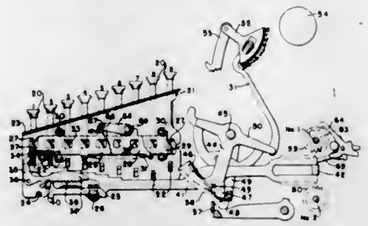
1. In a centrifugal compressor, the combination of an impeller for compressing fluids, and adjustable means disposed at the inlet to said impeller for determining the direction of fluid supplied to the impeller, said means comprising a plurality of flexible metal vanes, a central member, said vanes being mounted on and extending radially from said central member, the leading edge of each vane being attached to the central member and held in fixed position tangent to the direction of fluid flow, a wall member surrounding the vanes, the outer edges of each vane being attached to the wall member, a movable guide ring disposed in said wall member, members extending from the trailing edge of each vane into openings in the guide ring, means for moving the guide ring to twist the outer trailing edge of each vane thereby deforming the body of the vane to vary the direction of fluid passing to the impeller.

2,614,748
CENTRIFUGE FOR SEPARATING SOLIDS
Howard P. Ritsch, Chicago, Ill.
Application July 29, 1947, Serial No. 764,368
7 Claims. (Cl. 233—7)



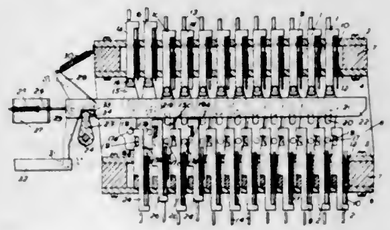
1. A centrifugal separator for separating solids comprising a shell, means for rotating the shell, a drum rotatably mounted within the shell, means for rotating the drum in the same direction as the shell and at a different speed from the speed of rotation of the shell, an inlet for continuously delivering separating medium between the shell and the drum, an inlet for continuously delivering water and solids between the shell and the drum, an outlet maintaining a constant level of medium between the shell and the drum, an outlet maintaining a constant level of water between the shell and the drum, the solids being separated into light and heavy annular layers by centrifugal force and the medium, a worm carried by the drum within the shell for conveying the separated solids within the shell, the worm having two concentrically arranged conical portions extending from its trailing end to which the solids are conveyed by the worm, the conical portions converging toward their outer ends, a conical separating member extending between the two conical portions of the worm, the water and medium outlets being positioned to maintain the levels of the water and the medium such as to provide concentric annuli of water and medium with the boundary therebetween lying substantially adjacent to the maximum diameter end of the separating conical member, an outlet for light solids in communication with the trailing end of the worm on the interior of the conical separating member, an outlet for heavy solids in communication with the trailing end of the worm on the exterior of the conical separating member, said conical member acting to separate the heavy solids within the medium from the light solids floating on the medium, thereafter the separated solids being conveyed to said outlets by said conical portions of the worm on either side of said conical member.

2,614,749
TOTALIZER ACTUATOR CONTROL MECHANISM
James Wallace, Manchester, England, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application June 3, 1949, Serial No. 97,043
In Great Britain February 21, 1949
8 Claims. (Cl. 235—60.31)



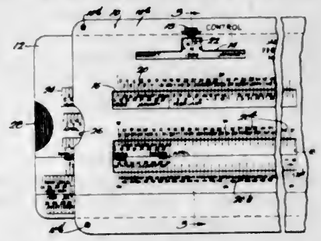
7. In a machine of the class described, capable of total-taking or zeroizing operations, and having a plurality of denominational orders of accounting mechanism, the combination of a settable actuator for each denominational order; means to yieldingly draw the actuators in a zeroizing direction; a totalizer having denominational totalizer wheels corresponding to the actuators, said wheels engageable with said actuators during the zeroizing movement and effective upon arriving at zero to stop the movement of said actuators to set or position them according to the values on said wheels; a rockable retaining member for each actuator, said retaining members each having teeth corresponding to the various settable positions of said actuators; a projection on each actuator normally engaged by the teeth of the corresponding retaining member to retain said actuators in zero positions against the action of the drawing means; an independently operable element for each retaining member; and control means coacting with each independently operable element in zeroizing operations to rock the retaining means to ineffective position to free the actuators for positioning movement under influence of the drawing means, said control means effective after the totalizer wheels have been zeroized and the actuators set accordingly to reengage the teeth of said retaining members with said corresponding projections to retain said actuators in set positions against the action of the drawing means.

2,614,750
APPARATUS FOR COMPARING STATISTICAL RECORD CARDS
Arthur Thomas, Wallington, England, assignor to Powers-Samas Accounting Machines Limited, London, England, a British company
Application January 12, 1951, Serial No. 205,702
In Great Britain February 2, 1950
2 Claims. (Cl. 235—61.7)



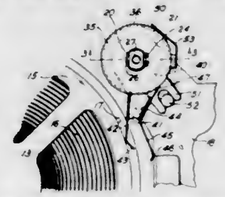
1. Apparatus for comparing perforated record cards, comprising a first and a second set of flat slidable elements the elements of the two sets being paired to represent like card index positions and being movable in opposition as the result of impulses imparted thereto from record card sensing devices associated therewith, each slidable element of each set having an abutment extending therefrom, an axial movable pin associated with each slidable element to engage the abutment thereon, compression springs independently encircling the pins and through said pins urging the slidable elements of the two sets in opposite directions, and testing means to test the relative positions of the paired elements of the two sets of elements to determine whether the elements of the two sets indicate agreement or disagreement between two record cards acted upon by the sensing devices.

2,614,751
UNEXPIRED TIME AND MATURITY DATE CALCULATOR
Edward N. Heinz, Sr., Oak Park, Ill.
Application January 10, 1950, Serial No. 137,827
3 Claims. (Cl. 235—89)



1. A calculator to determine the time units elapsed between a first date and a second date comprising in combination, a frame having a slide opening and a slide shiftable received in said opening, said frame having a control window and a response window, an index mark on the edge of the control window, an elapsed time scale in uniform successive units spaced in the direction of movement of the slide and extending along the edge of the response window, said slide having an identical pair of time scales complementary to said last scale, one being in registering relation with the index mark on the control window and the other being in registering relation with said last scale, the pair of scales being offset in the direction of motion of the slide to cause the unit mark on the response window to register with the mark on the elapsed time scale corresponding to the time unit following the time unit registered with the index mark, at least one of said pair of scales on said slide bearing special distinguishing indicia for Sundays and legal holidays.

2,614,752
FOOTAGE INDICATOR FOR MOTION-PICTURE APPARATUS
Edward S. McKee, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 2, 1949, Serial No. 130,669
3 Claims. (Cl. 235—103)

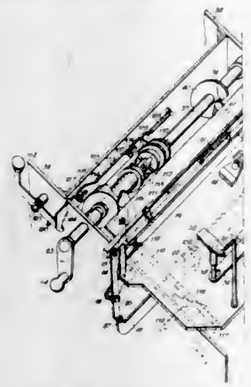


1. A ratchet type indicator comprising a driven member, an indicating means on said driven member and rotatable therewith, an intermediate drive member rotatably mounted on said driven member and having a toothed periphery, an actuating member pivotally mounted on said driven member and having an arm adapted upon movement thereof to pivot said actuating member and a second arm in engagement with said toothed periphery to prevent retrograde movement of said intermediate drive member and adapted upon movement of said first-mentioned arm to rotate said intermediate drive member, and resilient means frictionally engaging said driven member and said intermediate drive member for rotating said driven member upon movement of said first-mentioned arm and for permitting said indicating means to be rotated independently of said intermediate drive member.

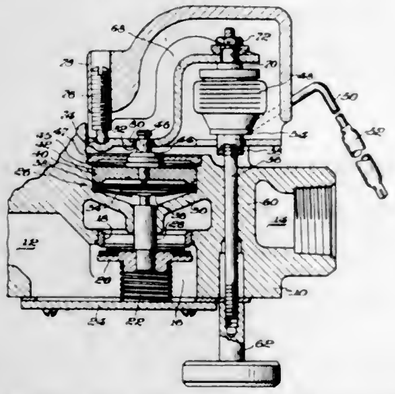
2,614,753
ZEROIZING MECHANISM IN CALCULATING MACHINES
Heinrich Suter, Zurich, Switzerland, assignor to H. W. Egli A. G., Zurich, Switzerland
Application July 15, 1947, Serial No. 761,003
In Switzerland March 9, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires March 9, 1965
5 Claims. (Cl. 235—144)

1. Calculating machine provided with figure carriage, the result mechanism of which is provided with parallel result shafts on each of which a toothed sleeve is rotatably mounted which carries an indicating dial and a correction disk, the toothed sleeves being provided with mutual driving connections for positively effecting the tens transfer by a partial "crawl carry" of the indicating dial, each correction disk having a correcting

lever and a coupling pin assigned to it, the latter being intended for effecting the cooperation of a toothed crown of one of the planetary gears assigned to the indicating dial with planetary wheels carried by the result shafts and for effecting meshing with the pinions rotatably disposed on the result shafts, the coupling pin being adapted to have a certain amount of play ("idling"), the said toothed sleeves having a common clearing rack, which has a stop for operating a restoring setting slide which is provided with stops for cooperating with coacting stops present on the aforesaid concentric toothed crowns of the planetary gears for the purpose of effecting the final return step of said indicating dials into zero position, a drive shaft being provided with two cam disks, one of said cam disks being operatively connected with said clearing rack for moving the same upon rotation of the drive shaft, and the other cam disk being operatively connected with a control bar for moving said correcting levers.



2,614,754
THERMOSTATIC CONTROL DEVICE
Michael J. Caparone, Arcadia, Calif., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application July 9, 1949, Serial No. 103,820
1 Claim. (Cl. 236—48)



A thermostatic control apparatus comprising a casing having inlet and outlet openings for fuel, a valve seat intermediate said openings, a valve member reciprocable relative to said seat between open and closed positions and being biased to said closed position, a valve stem carried by said valve member and projecting toward said seat, snap-action means mounted in said casing coaxial with said valve member on the opposite side of said seat, said means including spring means adapted for operative engagement with said valve stem for overcoming said bias and causing movement of said valve member to said open position, an expansible bellows member positioned in said casing for movement on an axis substantially parallel with said valve member, a lever pivoted at one end in said casing and overlying said snap-action means and said bellows member, means for securing said lever to said bellows member for transmitting movement thereof to said snap-action means and for transmitting a biasing force from said spring means to said bellows member for urging said bellows member toward elongated condition, a bulb adapted to be exposed to variation in a temperature condition, a capillary tube connecting said bellows member and bulb in a closed system, liquid under pressure less than atmospheric completely filling said system for normally maintaining said bellows member in tension but being adapted for causing expansion thereof solely by volumetric changes in said liquid upon sufficient variation in said temperature condition, an adjusting stem carried by said casing for supporting said bellows member for bodily movement relative to said snap-action means, and manually operable means projecting exteriorly of said casing for actuating said adjusting stem to overcome said bias and hold said valve member in open position in the absence of said expansion or leakage in said system.

2,614,755
ARTICULATED RAMP STRUCTURE FOR MINE CARS
Jean Binaut, Lewarde (Nord), France, assignor to Houilleres du Bassin du Nord et du Pas de Calais, Douai (Nord), France, a corporation of France
Application October 17, 1949, Serial No. 121,716
In France November 4, 1948
6 Claims. (Cl. 238—10)

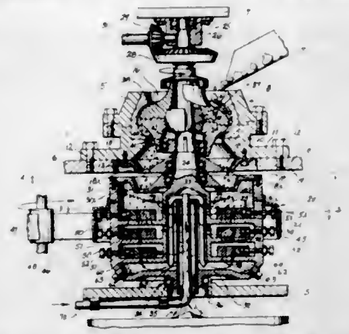


1. Ramp structure adapted to be superimposed over a haulage track section to gain a difference in level therein, which ramp structure comprises a number of parallel linkage units, each unit comprising a pair of parallel side iron sections each adapted to generally overlie a portion of a related rail of said track, supporting means each adapted to seat on one of said rails to support the adjacent ends of a consecutive pair of said iron sections over said rail at a requisite height thereabove and pivotally connecting the adjacent ends of every two iron sections of said linkage units, to allow relative angling displacements between said consecutive iron sections, and bracing means interconnecting opposite ones of said supports.

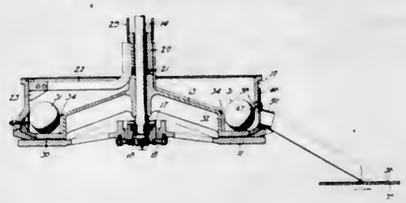
2,614,756
AMALGAMATOR
Andrew Ferguson, Pasadena, Calif.
Application May 3, 1947, Serial No. 745,777
5 Claims. (Cl. 241—38)

2. In an ore reducing mill of the character described, a rotatably mounted, cylindrical and vertically disposed housing, closed at its lower end and adapted to receive crushed ore thereinto at its upper end for downward progression and formed with an annular amalgam basin

concentrically thereof at its lower end, a rotatably mounted, hollow hub contained coaxially within the housing and formed with radially opening inflow ports, ore scouring and polishing blocks within the housing, fixed to the hub member and to the housing wall to coact, but without contact, for the pulverizing of ore and polishing of metal passing between the coacting surfaces thereof in its downward progression, an outflow pipe leading from within the upper end portion of the hollow hub through the base of the housing, means for rotating the said housing and hub at high and differential rates of speed and means for admittance of a flow of water under pressure into the lower end of the housing for an upward washing of pulverized material through the hub ports to the outflow pipe.



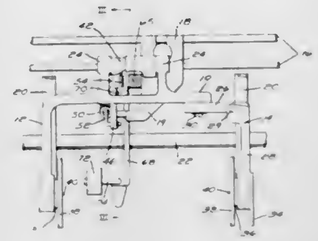
2,614,757
APPARATUS FOR CONTINUOUSLY DELIVERING PLASTIC CEMENTITIOUS MATERIAL TO A MOVING MOLDING SURFACE
Elgin G. O'Farrell, Whittemore, Mich., assignor to National Gypsum Company, Buffalo, N. Y.
Application September 3, 1948, Serial No. 47,645
5 Claims. (Cl. 241—90)



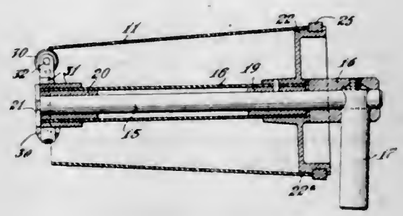
1. Apparatus for continuously delivering plastic cementitious material and the like to a moving table for forming panels, said apparatus including a mixing device comprising a cylindrical mixing shell supported above the table, a plurality of peripheral openings in the lower part of said shell facing the direction of movement of said table, and inclined flexible conduit means leading from said openings downwardly and adapted to rest yieldably upon said table to discharge mixed material directly thereupon.

2,614,758
BOBBIN HANGER
Charles C. Bell, Warwick, R. I., assignor to Universal Winding Co., Cranston, R. I., a corporation of Massachusetts
Application January 5, 1951, Serial No. 204,518
5 Claims. (Cl. 242—39)

1. A bobbin hanger for use in winding machines comprising a pivoted yoke adapted to rotatably carry a bobbin and adapted to be pivoted from a first position wherein said bobbin is rotated to cause yarn to be wound thereon to a second position wherein said bobbin is not rotated, a pivotally mounted lever adapted upon pivotal movement in one direction to engage said yoke and pivot it from said first position to said second position and adapted upon pivotal movement in a second direction to permit said yoke to pivot to said first position, spring means urging said lever in said one direction, a keeper carried by said lever, a second pivotally mounted lever, latch means carried by said second lever, resilient means urging said second lever in a direction to permit said latch to engage said keeper, and means carried by said second lever adjacent said bobbin adapted to be engaged by yarn wound thereon to move said second lever in the opposite direction to release said latch from said keeper.

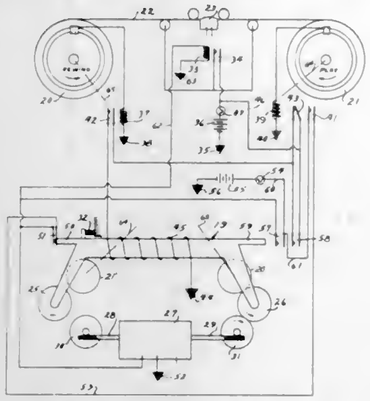


2,614,759
BOBBIN HOLDER
Edward J. Abbott, deceased, late of Wilton, N. H., by Samuel L. Abbott, executor, Wilton, N. H., assignor, by mesne assignments, to Abbott Worsted Mills, Incorporated, Wilton, N. H., a corporation of New Hampshire
Application July 25, 1949, Serial No. 106,607
11 Claims. (Cl. 242—46.2)



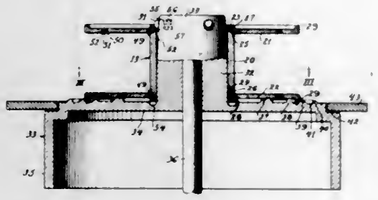
3. A bobbin holder including a plurality of rollers spaced circumferentially of the bobbin holder with portions of their peripheral surfaces exposed to engage the interior of the bobbin and be rotated by the interior surface of the bobbin as the bobbin is moved over the rollers, at least one of said rollers being of resiliently distortable material and adapted to be compressed by the bobbin, and said rollers being positioned so that when the bobbin is seated on the holder the rollers are adapted to engage an outwardly facing edge of such interior surface of the bobbin, with the centers of such rollers lying outwardly, endwise of the bobbin holder, beyond such edge, thereby retaining the bobbin on the holder against accidental endwise displacement.

2,614,760
CONTROL SYSTEM FOR MAGNETIC RECORDERS
Marion S. Danisch, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Application June 29, 1945, Serial No. 602,251
5 Claims. (Cl. 242—54)



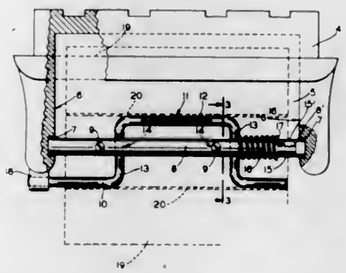
1. An automatic rewinding system for a magnetic recording or reproducing device including a pair of reels for winding a magnetizable medium from one reel onto the other reel and vice versa, an electrical control circuit including a portion of said magnetizable medium, an electric motor, a pair of friction drive rolls rotated in opposite directions by said motor, a reciprocable carriage, a pair of friction driving means mounted on said carriage, one for each of said drive rolls and reels, and electromagnetic means energized through said electrical control circuit for moving said carriage in a direction to effect disengagement of one of said friction drive rolls from one of said friction driving means and engagement of the other of said friction drive rolls with the other of said friction driving means.

2,614,761
SPOOL AND DRIVE THEREFOR
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Application February 18, 1946, Serial No. 648,424
8 Claims. (Cl. 242—54)



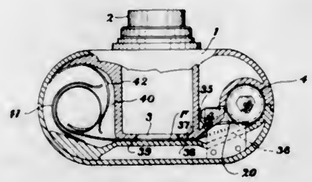
1. A winding and reeling mechanism comprising a vertically disposed drive shaft, a radially outwardly extending flange member secured to said shaft, said flange member including an axially extending hub, a spool having a hollow core member and a pair of end walls and mounted on said flange member, said hub extending into said core member, means for restraining relative movement between said hub and core, said flange member extending out radially farther than the adjacent end wall of said spool, and means on said flange member for seating one of said end walls, whereby any elongated member which is wound on said spool and which slips over the end wall of said spool is carried by said flange member with the same rotational movement as said spool.

2,614,762
HOLDER FOR ROLL TOILET TISSUE
Francis J. Moore, Minneapolis, Minn.
Application June 19, 1951, Serial No. 232,412
4 Claims. (Cl. 242—55.2)



1. In a holder of the class described, a shaft having on one end a spring-projected extension, and a rod offset at its intermediate portion in the form of a yoke having a transverse portion and two side members, said side members extending transversely of the shaft and secured thereto.

2,614,763
FILM STRIPPER-STOP FOR EXTRUSION-LOADING APPARATUS
William H. Horton and Paul J. Ernisse, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 20, 1951, Serial No. 252,288
6 Claims. (Cl. 242—71)



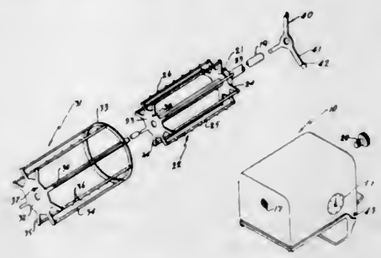
1. A film stripper-stop for roll-holding photographic apparatus comprising a film chamber, and a film guideway leading from the film chamber, a film-winding key and post, the latter lying in the film chamber to support and engage a film spool for moving film relative thereto, said film spool including a hub, a stripper-stop movably mounted in the spool chamber, a spring normally turning the stripper-stop into engagement with film wound from the film spool, the stripper-stop directing the end of said film into the guideway, a pawl movably mounted and operably connected to the stripper-stop to be moved therewith, a ratchet on the winding key-post to be engaged by the pawl when the stripper-stop moves to a position adjacent the film spool core whereby said stripper-stop may limit the unwinding movement of the film from the spool.

2,614,764
POROUS RESILIENT BOBBIN
Joseph Annicq, Renaix, Belgium
Application February 28, 1951, Serial No. 213,251
In Belgium October 5, 1950
11 Claims. (Cl. 242—72)



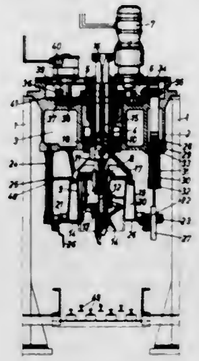
1. A porous resilient bobbin for use in the textile industry, comprising a base helical spring of several turns of wire, and a spring wire helically wrapped around each two adjacent turns of said helical spring for the full length of said helical spring forming links between said adjacent turns, said links having broad U-shaped bends at their ends of an inside diameter greater than the diameter of the wire of said base spring whereby said links are enlarged radially to the axis of said helical spring to permit their radial movement on said helical spring.

2,614,765
DEVELOPING REEL
Albert Del Pozo, Jr., and Michael W. Mettenleiter, New York, N. Y.
Application March 28, 1947, Serial No. 737,870
7 Claims. (Cl. 242—77)



1. A device for supporting a roll of film during processing, comprising, in combination, a motor, a shaft driven by said motor, a reel axially mounted on the said shaft, a second shaft supported on said first named shaft for displacement in axial direction relative thereto, and a second reel adapted to fit over said first reel axially mounted by one end on said second shaft in overhanging relation thereto, whereby said second reel may be disposed over said first reel and in one position and to one side of said first reel in another position.

2,614,766
WIRE REELING APPARATUS
Hermann Böcher, Cologne-Kalk, Germany
Application October 31, 1949, Serial No. 124,541
In Germany July 30, 1949
9 Claims. (Cl. 242—84)

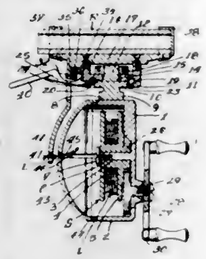


1. A wire winding reel for selective low or high speed winding comprising a frame, a vertical hollow shaft, a motor for driving said hollow shaft, a reel suspended at the lower end of said shaft, a releasable coupling between said hollow shaft and said reel to transmit rotation of said shaft to said drum, an outer drum surrounding and adapted to rotate with said reel and providing a storage space between the reel and drum for the reception of the wire coil, a set of inner radial supporting arms pivoted within said reel and adapted to selectively be swung outwardly into position to form the lower limit of said storage space, motor driven means including a second motor for pivoting said arms, a set of outer radial supporting arms pivotally mounted externally of said outer drum and adapted to selectively be swung inwardly to form the lower limit of said storage space when the inner supporting arms are withdrawn, additional motor driven means including a third motor for pivoting said second set of arms, a wire feed tube axially displaceable within and rotatable with said hollow shaft, and a removable inclined guide tube in communication with said feed tube and adapted to be rotated with said hollow shaft for placing the wire in the storage space with the said coupling released and the reel fixed and the outer supporting arms in operative position, and a removable auxiliary wire feed tube for leading the wire to the storage space when the inclined guide tube is removed, the coupling engaged, the reel rotating with the hollow shaft and the inner supporting arms are in position below the storage space.

2,614,767
SPINNING REEL
Charles O. Dean, Uniontown, Pa., assignor of one-third to Leslie W. Secoy, Point Marion, Pa.
Application March 11, 1948, Serial No. 14,225
1 Claim. (Cl. 242—84.1)

In a spinning reel, a cylindrical casing having an open end, means for mounting said casing for reversed quarter-turning movements on the butt of a fly-rod, a concavo-convex cover on the open end of said casing, a spool mounted for rotation within said casing, means for rotating said spool, said cover having a radial slot extending from its center to and through its edge and connecting with a longitudinal slot formed in the side wall of said casing for the passage of a line

therethrough from the spool during and after the turning of the casing from one or the other of its turned positions, an arm projecting from said mounting means, a line guide eye in the free end of said arm adapted to align with one or the other of the said slots as the casing is turned from one or the other of its positions relative to the rod butt, a latching means for holding said casing in each of its turned positions of use, the said mounting means comprised in a bracket removably supported on the butt of the fly-rod, a circular plate having an annular side flange secured in abutting relation with the side of said bracket to provide a space between the plate and the bracket, said plate having a central opening, an arcuate plate secured on the outer side of the side wall of said casing, a shank projecting from the center of said arcuate plate and through the opening in said circular plate, a nut within the said space and threaded onto the free end of said shank, a flange encircling said shank at the outer side of said circular plate, said cir-

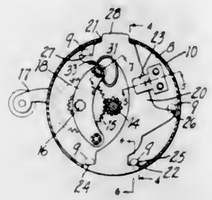


cular plate and said flange having registering annular grooves formed in the opposed faces thereof, a lug formed on said plate and intersecting the groove therein, a second lug formed on said flange and intersecting the groove in the same, a coil spring seated in said grooves and having its ends abutting said lugs, said spring normally acting to hold said lugs in abutting relation, said flange having a pair of notches in its edge spaced apart a distance equal to a quarter turn of said shank and the casing, said arm having a slotted opening adjacent its point of support on said bracket, a holding lever extending through said slotted opening and pivotally mounted therein and adapted to engage one or the other of said notches to retain the reel structure in one or the other of its positions of use, said spring acting automatically to turn said casing in one direction upon the release of said holding lever from the engaged of said notches, and a second coil spring for tensioning said holding lever engaged with one or the other of said notches.

2,614,768
FISHING REEL
William Shakespeare, Jr., Kalamazoo, Mich., assignor to Shakespeare Company, Kalamazoo, Mich., a corporation of Michigan
Application March 4, 1949, Serial No. 79,694
4 Claims. (Cl. 242—84.1)

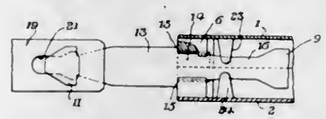
1. In a fishing reel, the combination of an annular frame end member, pillars having end portions disposed through said end member and constituting head plate supporting posts, the frame member being fixedly secured to the pillars, a flanged head plate having holes therein receiving said posts, the head plate flange having oppositely disposed peripheral slots therein, the outer edges of the slots being slightly spaced inwardly from the plane of the inner side of said

within said head plate with its ends within said head plate, a catch member slidably mounted slots, one end of said catch constituting a finger piece, a support mounted on the inner side of the head plate to overlap the catch member, said posts having recesses therein constituting keepers, said catch plate having a plurality of bendable catches all facing in the direction of the finger



piece of said catch member and simultaneously engageable with said keepers, the keepers being cammed, said head plate having a spring supporting post thereon, and a bowed spring having a curved lateral extension at its inner end in supported engagement with said post, said catch member having an inwardly facing curved thrust seat coacting with the springable outer end of said spring.

2,614,769
SPRING LOCK FOR STEEL TAPE RIBBON
Ragnar C. Nicholson, Middletown, N. Y., assignor to Master Rule Manufacturing Co., Inc., Middletown, N. Y., a corporation of New York
Application August 17, 1950, Serial No. 179,957
6 Claims. (Cl. 242—84.9)



6. A steel tape rule comprising a housing having an opening, a coiled spring mounted in said housing, a graduated tape detachably secured at one end to the free end of said spring, and cooperating means on the housing at the opening and on the free end of the spring provided for locking engagement when the free end of the spring extends through the opening of said housing to hold it in that position.

2,614,770
BUILDING CONSTRUCTION ROLL SUPPORTING REEL
James B. Gabrielson, Montebello, Calif.
Application December 30, 1948, Serial No. 68,231
7 Claims. (Cl. 242—96)

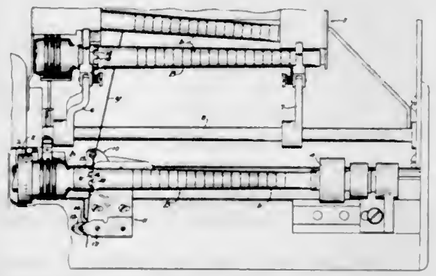
1. A dispensing reel for building material construction rolls comprising a telescopically adjustable and extendable reel pole, a roll supporting plate concentrically and adjustably mounted on said pole arranged to support the roll about said reel pole as an axis, a reel supporting member removably secured to said pole arranged to cooperate with an upper portion of a building to support the reel in an axially upright position, said telescopically adjustable reel pole comprising a long inner cylinder, a long outer cylinder, means for lengthening said pole and simultaneously locking said cylinders together in any desired adjusted position, consisting of an axially contractable diametrically expandable cylindrical plug fit-

ting within the outer cylinder and abutting one end of the inner cylinder, and means for axially contracting and diametrically expanding said plug at will, consisting of a rod having one end secured through said cylindrical plug, a toe extending into the other end of said inner cylinder, a ro-



tatable cammed sleeve abutting between said toe and said other end of said inner sleeve, said other end of said rod being secured to said sleeve, whereby rotation of said cammed sleeve locks said cylinders together, lengthens said pole, and abuts said toe against a lower portion of the building.

2,614,771
BOBBIN WITH STRAND END ATTACHING MEANS
William V. Goodhue, Warwick, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application February 14, 1949, Serial No. 76,365
1 Claim. (Cl. 242—125)



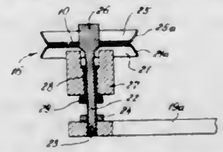
In a weft or filling bobbin for use in automatic winding machines for winding filling yarn for the shuttles of looms, a substantially cylindrical barrel terminating in an enlargement or head at one end, and a tubular metal ferrule surrounding the barrel adjacent its head and fixedly secured thereto, said ferrule having its end remote from the head of the bobbin serrated to provide a plurality of closely spaced fingers completely encircling the entire circumference of the barrel and spaced from the peripheral surface thereof in substantially parallel relation thereto to provide for engaging a strand of yarn or the like thereunder as it is slid along the barrel from its tip end towards the head whereby to fasten the end of the yarn to the bobbin for winding it thereon.

2,614,772
PACKAGE OF CORELESS TUBE WOUND BUNDLE OF TWINE
Henry Epstein, Brooklyn, N. Y., assignor of one-third to Mandel E. Epstein and one-third to Morton M. Epstein, both of New York, N. Y.
Application February 23, 1950, Serial No. 145,851
4 Claims. (Cl. 242—146)



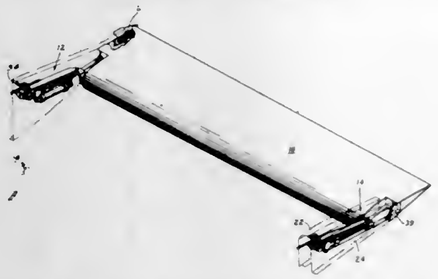
1. In an article of the character described, the combination of a bundle formed of a continuous rope, twine or the like, wound about an axis in the form of concentric helical coils and having an exposed end piece extending from the innermost coil to be pulled to unwind the bundle, a member fixed adjacent the bundle whereby the axis of the bundle intersects said member; said member having an elongated slot therethrough, extending substantially radially with respect to said axis, at least substantially from the inner to the outer coils of said bundle; the said end piece of the rope, twine or the like, being positioned through said slot, and a slide member slidably mounted on said member for movement along the slot; said slide member having an element extending therefrom through the slot and into the bundle adjacent a side of the helical coil from which said end piece extends; said rope, twine or the like being drawn through said slot as the bundle is unwound, being adapted to contact said element regardless of the direction of pull on the rope, twine or the like or the position of the slide along the slot and thus shift the slide member, whereby the position of said slide member along the slot will be indicative of the inventory of the bundle; said slide being always free but limited for movement along the slot by the innermost coil existing at any time.

2,614,773
TENSION DEVICE
Albert J. Ammerall, Amsterdam, N. Y., assignor to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a corporation of New York
Application November 20, 1950, Serial No. 196,614
6 Claims. (Cl. 242—150)



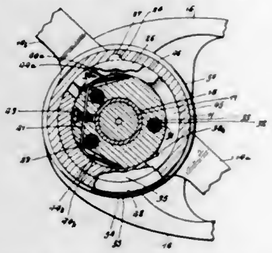
1. A device for applying tension to an advancing strand, which comprises a plate of non-magnetic material having a flat front face, a stem rigidly attached to the rear face of the plate centrally thereof and adapted to be secured to a support, a magnet encircling and mounted on the stem for adjustment toward and away from the plate, a plate of magnetic material having a flat front face opposed to the front face of the non-magnetic plate, and a stud attached to the front face of one plate centrally of said face and entering a central aperture in the other plate, the stud fitting loosely in the aperture and the magnetic plate being freely rotatable relative to the non-magnetic plate.

2,614,774
FLAP MECHANISM
Raymond F. Donovan, Dallas, Tex., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 31, 1948, Serial No. 68,633
2 Claims. (Cl. 244—43)



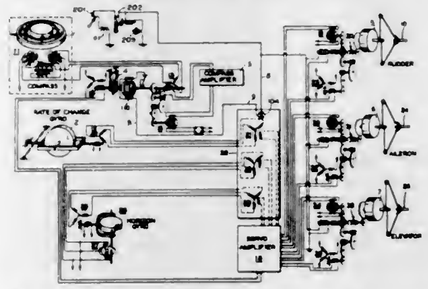
1. In an aircraft, a main wing, an extensible flap, means for mounting said flap on said wing, mechanism in said wing for extending said flap substantially horizontally in relation to said wing, said mechanism comprising a track carried in a fore and aft position in said wing, a truck having fore and aft rollers engaging said track and having a pivotal connection to the forward end of said flap and having a fore and aft slot, and a carriage slidable within said slot and including a rigid extension member connected to said flap at a point remote from said pivotal connection, biasing means comprising a spring loaded strut one end of which is connected to said truck and the other end connected to said carriage for normally maintaining said carriage in the aft portion of said slot, means for guiding said flap during its initial aft movement including a channel in said wing open at its aft end and a stud on said flap cooperating with said channel, means for imparting a slight deflection to said flap during its initial movement while said stud is engaged in said channel including a joggle in the forward portion of said track whereby said extension member and said pivotal connection are displaced when said forward roller moves into said joggle, and means for increasing the deflection of said flap relative to said wing when said stud moves out of the open end of said channel including a stop on said wing engageable by said carriage for overcoming said biasing means.

2,614,775
CASTERABLE AIRPLANE WHEEL
Norman C. Koester and Charles D. Cupp, Lancaster, N. Y., assignors to Scott Aviation Corporation, Lancaster, N. Y.
Application September 6, 1949, Serial No. 114,232
9 Claims. (Cl. 244—50)



1. An airplane wheel assembly of the character described comprising: a bracket connected with the airplane fuselage; a fork pivotally connected with said bracket, and having a wheel journalled thereon; a steering collar movably mounted on said fork and having a steering arm; a pair of oppositely facing pawls movably mounted on said fork, and normally engaging companion notches in said steering collar; and means connected with said bracket and adapted to disengage the one or other of said pawls from its companion notch.

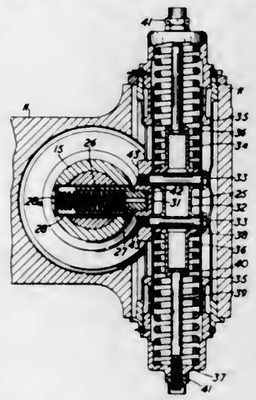
2,614,776
FLIGHT CONTROLLER FOR AUTOMATIC PILOT
Francis Henry S. Rossire, Leonia, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 17, 1947, Serial No. 729,019
6 Claims. (Cl. 244—77)



1. A control unit for an aircraft automatic steering system having rudder, aileron and elevator actuating motors, said unit comprising displaceable turn, bank and pitch signal developing devices for operating said motors, means operatively connecting said bank signal developing device to said turn signal developing device whereby said turn signal developing device is displaced a predetermined amount for a given amount of movement of said bank signal developing device, a universally mounted manually operable member connected to said pitch and bank signal developing devices for displacing the latter selectively or in unison, and biasing means operative upon termination of manual operation of said member for returning said pitch and bank signal developing devices to a no-signal developing position.

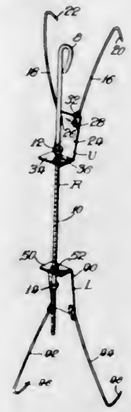
2,614,777
SELF-CENTERING MEANS FOR AIRCRAFT CASTERABLE LANDING WHEEL MOUNTINGS
Henry Shawbrook and Edward F. Hillier, Cheltenham, England, assignors to Dowty Equipment Limited, Cheltenham, England
Application June 22, 1951, Serial No. 232,908
10 Claims. (Cl. 244—104)

10. An aircraft castorable landing wheel mounting including a casing, an upright wheel-mounting shaft, journal means supporting and guiding said shaft in said casing for 360° rotation, a crank arm formed with a head at its outer end and directed laterally from and mounted on said shaft for rotation therewith to swing its head in a definite arcuate path, means mounted and guided on said casing for reciprocative movement transversely of the axis of said shaft, and including a head thereby movable in a path disposed on a chord of the path of the crank's head to either side of a neutral or centered position, the two heads being normally engaged so long as rotative movement of the crank arm's head does not exceed the opposite limits of such chord, but being disengageable by rotative movement of the crank arm and its head beyond either such limit, resilient centering means operatively connected to said reciprocable means and reacting from said casing to return the reciprocable means' head to said centered position whenever the two heads are not engaged, and tending to return the crank arm's head



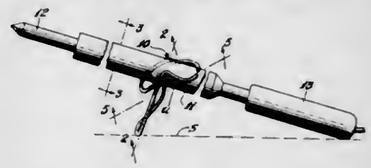
whenever the two heads are engaged, to said centered position, and further resilient means acting upon one of said heads to urge it into and to hold it in operative engagement with the other head, but yieldable in a direction generally lengthwise of the crank arm for reengagement of the two heads upon return of the crank arm and its head to centered position following disengagement of the heads and return of the reciprocable means and its head to such centered position.

2,614,778
PLATE HANGER
Reber Graves, Glen Ellyn, Ill.
Application May 6, 1950, Serial No. 160,439
3 Claims. (Cl. 248—30)



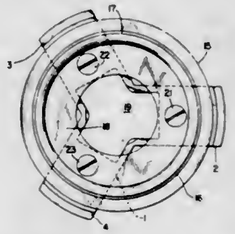
1. A plate hanger comprising a vertical rod having a screw-threaded shank and formed at one end with an eye, vertically disposed upper and lower yokes each having at one end a horizontally disposed lip with an opening therein through which the shank of the rod is loosely extended with capacity for each yoke to rock thereon about a horizontal axis through a substantial rotative distance, a pair of fingers pivotally attached to each yoke at its other end at spaced points at opposite sides of the rod shank, the fingers being provided with plate-engaging hooks on their free ends for gripping the margin of a plate at variable distances apart, and a pair of nuts threaded on the rod shank to the outside of the yoke lips and each providing therefor an adjustable fulcrum about which the yoke may freely rock to maintain automatically a condition of balanced tension in the two fingers whenever the points of finger engagement with the plate are unequally distant from the rod shank.

2,614,779
ROD POSITIONING FRAME
Carl E. Peterson, Upper Montclair, and Ernest C. Kastner, Bloomfield, N. J., assignors to Eastern Tool & Mfg. Co., Belleville, N. J., a corporation of New Jersey
Application August 21, 1950, Serial No. 180,614
1 Claim. (Cl. 248—44)



A rod positioning frame adapted to be secured to one end of an elongated rod to hold the same therein and out of contact with a supporting surface on which the frame and other end of the rod are to be positioned, comprising a frame formed from a single strand of spring wire and including a centrally disposed downwardly opening bowed portion, the crown portion of which is adapted to engage the underside side of the rod on application of the frame thereto, a pair of torque arms connected at their lower ends to the lower ends of the legs of the central bowed portion and defining surface engaging corner portions, said torque arms extending upwardly above the top of the central bowed portion and being directed toward each other, and a pair of coacting curved jaws formed on the upper ends of said torque arms and adapted to engage the opposite sides of the rod, said jaws cooperating to hold the rod and resist forces exerted on the first mentioned end of the rod, the central bowed portion of the frame being disposed at an incline with respect to the plane of the torque arms.

2,614,780
SURVEYING INSTRUMENT TRIPOD HEAD
William J. Buff, Monmouth Beach, N. J.
Application January 30, 1951, Serial No. 208,476
1 Claim. (Cl. 248—177)



A tripod head for supporting instruments provided with an internally threaded trivet plate,

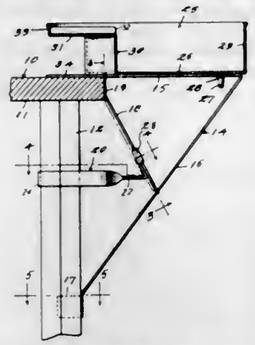
including, in combination a spider, formed with a plurality of branches each formed with two side walls and an end wall with a through bore in the side walls to receive a pin adapted to pass through and attach the upper end of a tripod leg, each branch formed with a web at a right angle to and connecting the two side walls, each web formed with a threaded orifice, and a separable flange plate formed with a boss provided with a screw-thread, said flange plate formed with an annular web extending toward the center of the plate, said annular web formed with through bores all within the inner diameter of the threaded boss aligning with the bores in the webs of the spider branches and screw-threaded fastening means passing through the bores of the annular web and cooperating with the through threaded bores of the webs of the spider branches.

2,614,781
AIRCRAFT SEAT LEG RELEASE MEANS
William A. Engel, Adrian, Mich.
Application June 16, 1949, Serial No. 99,505
1 Claim. (Cl. 248—189)



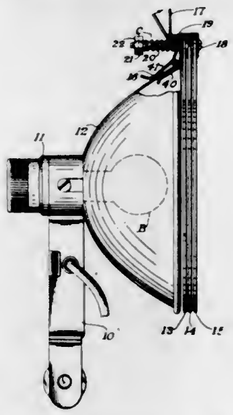
In combination, a leg standard, a floor-lock member adapted to have interengagement with the lower end of the leg when the latter is in usable position, catch means normally operable to have releasable catch engagement with the floor member when the standard and floor member are in predetermined interengaged relation, said catch means comprising a plurality of catch levers disposed longitudinally of the leg standard and pivoted thereto for rocking movement to release and engage the floor-lock member when in register therewith, spring means acting on the inner ends of said catch levers to normally force them outwardly, each catch lever having an outwardly disposed cam projection on its inner end portion above its fulcrum with the cam surface of the projection facing outwardly, a sleeve mounted on the leg standard for movement lengthwise thereof and having openings for receiving the cam projections of the levers whereby an upward movement of the sleeve on the leg standard will cause the outer end walls of said openings to coact with said cam surfaces to effect a positive release of the catch levers from holding engagement with the floor-lock member, said sleeve extending to near the upper end of the leg standard, and means acting against the sleeve and leg standard to normally hold the sleeve in its downwardly extended position.

2,614,782
TRAY HOLDER FOR CARD TABLES
Jay J. Jackson, Tonawanda, N. Y.
Application November 20, 1950, Serial No. 196,591
3 Claims. (Cl. 248—221)



1. A bracket for detachably mounting on a table having a top and supporting legs at the corners thereof, said bracket comprising an upper horizontal bar partially engageable over the table top at one corner thereof, a bracing bar extending downwardly and inwardly from the outer end of said upper bar, a V-shaped leg engaging member carried by the lower end of said bracing bar, a guide bar fixed to said upper bar and said bracing bar between the ends of said upper and bracing bars and inclined downwardly and outwardly, and a locking bar slidably engaging said guide bar, said locking bar including a V-shaped inner end engageable about the inner sides of the table leg, the inner end of said locking bar being oppositely disposed with respect to said first named V-shaped member.

2,614,783
PIVOTAL DISK CLAMP
Wesley J. Spear, Cleveland Heights, Ohio
Application May 5, 1949, Serial No. 91,599
1 Claim. (Cl. 248—226)



A clamp for the support of shield members from the wall of a reflector, comprising an axis member having a piece at one end adapted to serve as a stop for members fitted over the axis member, a first arm fitted over the axis member and adapted to bear upon members fitted over the axis member, the first arm comprising a piece having a central portion and an opening at one point therein for receiving the axis member, a portion adjacent one end of the central portion inclined at an angle thereto and an arcuate portion adjacent the axis member, a second arm fitted over the axis member including a central portion having an opening for receiving the axis member, a generally flat portion inclined with respect to the central portion for cooperating with the inclined portion of the first arm to form a clamp, an arcuate portion for cooperating with the arcuate portion of the first arm to form a fulcrum whereby the arms may be pivoted with respect to the axis member and each other, and a portion extending beyond the arcuate portion to form an actuating grip, spring means fitted over the axis member for constraining the arm members with respect to each other and the axis member and adapted to constrain shield members placed over the axis member, and retaining means at the remaining end of the axis member for constraining the spring means with respect to the axis member.

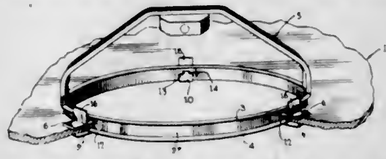
2,614,784
VENETIAN BLIND HOLD-DOWN BRACKET
Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application February 4, 1947, Serial No. 726,355
2 Claims. (Cl. 248—267)



1. A Venetian blind hold-down bracket formed as a one-piece sheet metal stamping, said bracket comprising: a base including a body portion having oppositely positioned longitudinal edges, said base also including an arm portion extending from one end of the body portion in the same general plane as the body portion, one longitudinal edge of the arm portion being substantially in prolongation of the longitudinal center line of said body portion, a flat pin-retaining member disposed perpendicularly to said base and being integrally connected with said one longitudinal edge of said arm portion, said pin-retaining member being provided with a pin-receiving slot extending upwardly and inwardly from that edge of the pin-retaining member which is remote from the body portion of the base, the body portion of the base having a single hole to receive a headed fastener, the axis of the hole lying on the longitudinal center line of the body portion of the base and the metal surrounding the hole being embossed into an upstanding annular rib, metal of the arm portion being embossed into an upstanding rib extending lengthwise of the arm portion and merging tangentially with said annular rib which surrounds the hole that receives the headed fastener, and at least one metal formation extending downwardly from said base to engage the surface on which the bracket is mounted and oppose swivel movement of the bracket about a fastener passing through said hole.

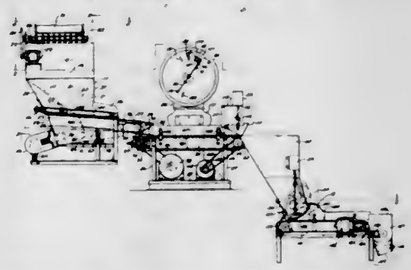
2,614,785
MOUNTING FOR RECESSED LIGHTING FIXTURES
Kurt Versen, Tenafly, N. J.
Application October 20, 1949, Serial No. 122,402
9 Claims. (Cl. 248—343)

1. A ceiling or wall mounting for recessed fixtures, comprising a support for the fixture, said support being disposed in the plane of the ceiling or wall, the support having a plurality of slots, and a plurality of pairs of cooperating ceiling gripping means to fasten said support to the ceiling or wall, each said pairs consisting of two angular clips having a bottom plate and a right-angle upwardly projecting wall, an orifice in the bottom plate of each clip, one of said clips having at the upper end of its right-angle wall an inwardly projecting tab having a width not in excess of the width of the said slot in said support, the clip with the upwardly projecting tab



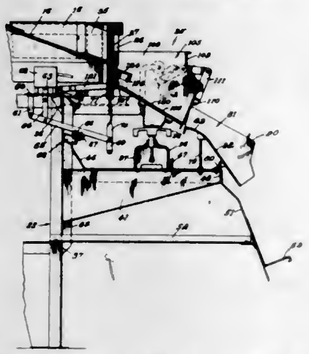
encompassing said support on its lower side and having its bottom plate disposed against the lower surface of the ceiling or wall, the projecting tab passing through the slot of said support, the other clip being disposed on the outside of said support vertically above the cooperating clip, and having its right-angle wall resting against said support and its bottom plate disposed against the upper surface of the ceiling or wall, and fastening means operative at a right angle passing through said orifices of said bottom plates to pull said clips together, whereby said ceiling or wall is gripped between the said clips.

2,614,786
WEIGHING AND PACKAGING MACHINE
Louis D. Caron, Jr., and Walter J. Hoenecke, Milwaukee, Wis., assignors to Terminal Packaging Company, Milwaukee, Wis., a corporation of Delaware
Application September 3, 1948, Serial No. 47,664
10 Claims. (Cl. 249—2)



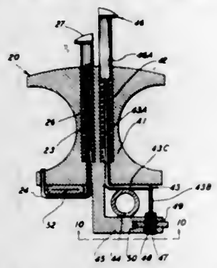
1. Mechanism for measuring out an accurately weighed portion of non-free-flowing material, comprising a scale having a weighing platform, an endless belt conveyor having a feed end and having a discharge end mounted on said platform, a normally closed shut-off gate mounted on said platform at the discharge end of said belt conveyor for movement therewith in response to weight changes and in a position to normally prevent discharge of material therefrom, a second conveyor for discharging material onto the feed end of said endless belt conveyor, the discharge end of said second conveyor being positioned sufficiently close to said endless belt that there is no substantial dropping of the material from said end onto said belt, and means mounted on said weighing platform for driving said belt to move the material thereon toward said shut-off gate while said material is being weighed.

2,614,787
UNIVERSAL WEIGHER AND BAGGER
Robert S. Grant, Lakeland, Fla., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware
Application August 19, 1947, Serial No. 769,370
5 Claims. (Cl. 249—53)



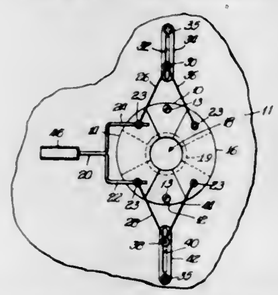
1. In combination: a scales, having a weighing hopper and a manually controlled bottom gate; means forming a port through which units of product are fed into said hopper; a door for closing said port; means responsive to the lowering of said hopper, by the delivery thereto of a given weight of product, to shift said door to port closing position and hold said door in said position so long as said hopper is lowered as aforesaid; and means actuated by the opening of said bottom gate to lock said hopper in its lowered position aforesaid, said means releasing said hopper upon the closing of said gate.

2,614,788
CLAMP
Charles M. Woodward, Pasadena, Calif.
Application May 17, 1946, Serial No. 670,474
9 Claims. (Cl. 251—5)



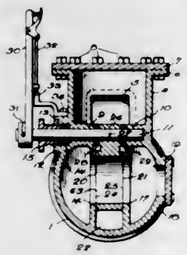
1. In a pinch clamp, the combination which comprises a first clamp member having a clamping surface on one end and a bore running through it to the other end, a second U-shaped member having a long leg and a short leg substantially parallel to each other with a clamping surface in between, the long leg being slidably and rotatably mounted in the bore, and the short leg being slidably mounted in a second bore in the first member, the clamping surface of the U-shaped member being located in the projection of the clamping surface of the first clamp member, springing means for pressing the two clamping surfaces toward each other, and means attached to the long leg and projecting outside the first member at the end opposite its clamping surface for rotating the long leg and sliding it sufficiently to move the short leg out of the second bore.

2,614,789
OBTURATOR FOR HIGH VISCOSITY LIQUIDS
Jean Pathus Labour, Washington, D. C., assignor to Gasoline Research Industrial & Commercial Company, Inc., Panama, Panama, a company of the Republic of Panama
Application April 9, 1948, Serial No. 20,160
In France August 13, 1947
7 Claims. (Cl. 251—18)



1. An obturator for liquids having a relatively high viscosity comprising a pair of movable segments normally disposed in spaced opposing relation to each other on a common axis, a pair of normally fixed segments also normally disposed in spaced opposing relation to each other in a common plane on a common axis normal to said first named axis, said first named segments each normally overlapping both of said second named segments so that all four of said segments form a partition normally having a central opening therein, and means for moving said first named pair of segments into overlapping relation so as to close said opening comprising a thrust transmitting member operatively secured to one of said movable segments and a toggle linkage pivotally interconnecting each pair of ends of said movable segments, the central pivot point of said toggle linkage being adapted to move in a fixed track so that movement of one such segment is therefore transmitted to the other segment.

2,614,790
QUICK-CLOSING SUBSTANTIALLY BALANCED GATE VALVE
Isidor B. Laskowitz, Brooklyn, N. Y.
Application November 19, 1946, Serial No. 710,834
2 Claims. (Cl. 251—18)



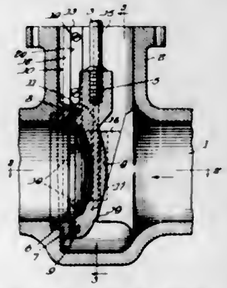
1. In a gate valve, the combination of a body provided with aligned inlet and outlet chambers at its respective ends, a partition member arranged vertically and centrally within the body and comprising spaced side walls connected together at their forward edges by a curved wall, the latter being disposed adjacent the inlet chamber, said side walls diverging gradually from the curved front wall and merging at their rear edges with the adjacent sides of the valve body adjacent the outlet chamber, said side walls being formed with registering ports, inwardly extending projections formed on the inner faces of the side walls around the ports to provide annular valve seats adjacent the front and rear portions of the partition member, a truncated open-ended ring forming a valve element mounted for vertical swinging movement between the side walls of the partition member, the edge faces of the ring coacting with the annular valve seats on said side walls, and means for manually actuating the valve element for moving the same to either an open or closed position.

2,614,791
SELF-RENEWING VALVE
Alfred T. Murray, Pasadena, Calif.
Application February 10, 1948, Serial No. 7,343
3 Claims. (Cl. 251—37)



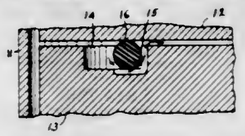
1. A valve comprising a valve body having an inlet and an outlet and providing an annular valve seat therebetween, a valve stem mounted in said body for axial movement toward and away from said seat, a self-centering valve element between the inner end of said stem and said seat, said valve element having a transverse groove facing the inner end of said stem, said valve stem being provided with an inwardly projecting tongue on its inner end for reception in said groove, said tongue having a transverse dimension and depth sufficiently less than the width and depth of the groove to permit limited movement of the valve element axially and rotatively with respect to the stem, and means on said stem for loosely holding said valve element.

2,614,792
VALVE GUIDE MEANS
James Trefil, Berwyn, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application August 22, 1946, Serial No. 692,209
4 Claims. (Cl. 251—55)



1. Valve guiding means within a casing, the combination including a closure member therefor, an annular shouldered seating member for the said closure member transversely mounted within the said casing, an angular or L-form of elongated strip guide means substantially vertically mounted within corner portions of a chamber in the said casing in planes substantially transverse to the direction of flow through the said casing, the shouldered portion on the said first-named seating member providing for the seating engagement by the said closure member, the said angular strip guide means including an unyielding extension inwardly turned of substantially the same thickness and positioned in the same plane as the shouldered portion of the said first-named seating member, the unyielding inturned extension of the guide means being supported by said corner portions of the said casing in an abutting contact therewith for substantially the full length of the strip, the contact surface of the said closure member with the said first-named seating member in the closed position of the valve being supplemented by its contact at an outer peripheral portion with the said unyielding inturned extension portion of the angular guide means having the same thickness as the shouldered portion of the said annular seating member.

2,614,793
ONE-WAY SEAL
Lynn W. Storm, Houston, Tex.
Application December 23, 1948, Serial No. 66,911
7 Claims. (Cl. 251—119)

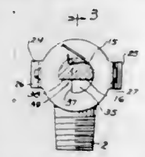


4. A device of the character described comprising, two adjacent parts secured together and having a fluid passageway between them, valve means for controlling the passage of fluid under pressure through said passageway, said valve means including an annular groove in one of said parts which faces the other and which forms a valve seat, said groove having an annular portion of greater depth mediate the sides of the groove than the depth of the groove at one side thereof, said portion forming a by-pass in communication with said passageway at the other side of the groove and opening into the groove between the sides thereof, a resilient sealing element in the seat, forming a valve, said sealing element being of less diameter, in cross section, than the width of the groove and being yieldably movable in the seat, under the influence of the pressure of fluid in one direction, to a position mediate the sides of the groove to open the by-pass to allow flow of said fluid through the passageway and said element being adapted to yieldingly engage the side of the groove beyond the opening of said by-pass therein upon cessation of the flow of the pressure fluid in said one direction to close and seal said passageway to prevent the flow of said fluid through the passageway in the other direction.

2,614,794
VALVE CAP CONSTRUCTION
Robert E. Imhoff, Detroit, Mich., assignor to Detroit Brass & Malleable Works, Detroit, Mich., a corporation of Michigan
Substituted for abandoned application Serial No. 770,308, August 23, 1947. This application April 23, 1949, Serial No. 89,349
8 Claims. (Cl. 251—154)

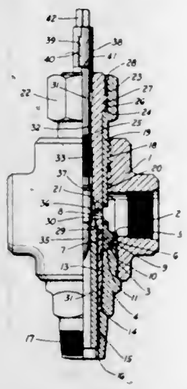
3. A valve construction having a body member with a valve chamber therein and a valve member rotatably positioned in the chamber, said members having passages some of which are arranged to be brought into and out of registry by the rotary movement of the valve member, said valve member having an operating stem which projects from the chamber, a pair of lugs

on the body member projecting substantially from opposite sides thereof, a cap having a body part for closing the valve chamber of the body member, the body part having an opening through which the operating stem extends, said cap having two oppositely disposed wings extending from the body part substantially perpendicularly and overlying opposite sides of the body



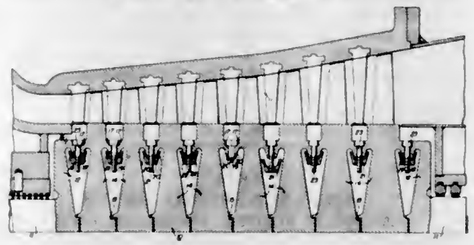
member, said wings each having an aperture therein engaged respectively with said lugs on the body, and a spring positioned in the chamber acting on the valve member to seat the same in the chamber and reacting against the body part of the cap, stop elements integrally formed on the cap and face means on the stem for engaging the stop elements for limiting the rotary action of the valve member.

2,614,795
FLOW CONTROL UNIT
Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Houston, Tex., a corporation of Texas
Application October 27, 1947, Serial No. 782,289
5 Claims. (Cl. 251—156)



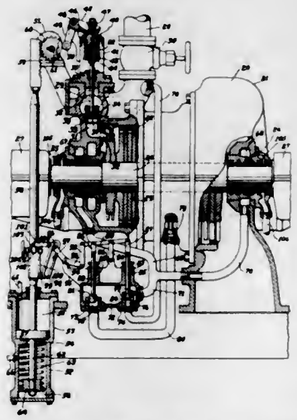
1. In a flow control unit, a body having inlet and outlet openings at an angle to each other and a third opening opposed to and in alignment with said outlet opening, an annular valve seat and an inwardly facing annular shoulder carried by said body surrounding said outlet opening, an annular valve member extending through said third opening and movable therein to and from seated engagement with said valve seat to close and open a flow passage from said inlet to said outlet, means including a removable guide in the valve member to plug the same against communication therethrough between the interior and the exterior of the body, said removable guide having a hollow cage-like part extending into and secured within said outlet opening to hold the guide normally stationary with respect to said body, and having an outwardly facing annular shoulder opposed to said first shoulder, and a bean clamped between said shoulders.

2,614,796
ROTOR CONSTRUCTION
Ernest F. Miller, Lansdowne, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 30, 1950, Serial No. 152,948
3 Claims. (Cl. 253—39)



1. In a turbine or compressor, a rotor comprising end shafts, discs carried by the end shafts, and blade carrying discs interposed between the end shaft discs; said discs having rims arranged successively in lateral contact and the contacting rims having contacting flanges extending radially inward, each contacting pair of said flanges having a pair of side surfaces which diverge radially outward; and segmental clamps associated with the pairs of contacting flanges, said clamps having channel side surfaces also diverging radially outward and engaging the flange side surfaces, said clamps being operative, under the influence of centrifugal force, to exert clamping action on the contacting flanges to hold the rims in lateral contact.

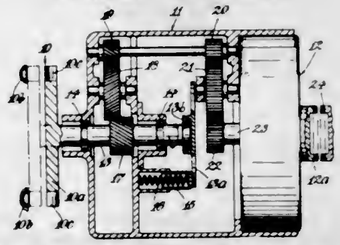
2,614,797
PRESSURE FLUID SEAL CONTROLLING DEVICE
Carleton B. Kidney, Easton, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application March 10, 1947, Serial No. 733,547
4 Claims. (Cl. 253—39)



1. In a pressure fluid seal controlling device, a casing having a wheel chamber, a wheel therein having a shaft, a packing box for the shaft, means for controlling the supply of pressure fluid to the wheel chamber, a valve for controlling the flow of pressure fluid to the packing box to prevent the leakage of atmospheric air through the packing box into the wheel chamber, a second valve to control the flow of pressure

fluid from the packing box, linkage connected to the valves to simultaneously impart closing movement to one valve and opening movement to the other valve, and a cam carried by the said means for transmitting movement from the said means to the linkage and the valves.

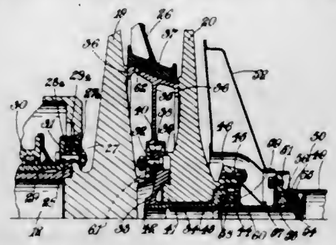
2,614,798
ENGINE STARTER MECHANISM HAVING A TURBINE AS THE PRIME MOVER
Arthur Alexander Rubbra, Littleover, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application May 23, 1949, Serial No. 94,916
In Great Britain June 1, 1948
3 Claims. (Cl. 253—59)



1. A starter mechanism for an engine comprising a driving clutch member adapted to engage a co-operating clutch member of said engine, a casing, a rotor shaft extending in said casing, bearing means to support said rotor shaft in said casing, a turbine rotor on said shaft, turbine blades on the periphery of said rotor, turbine nozzle means through which working fluid is supplied towards said turbine rotor at an angle to the axis thereof, the shaft and rotor being axially movable relative to the casing into and out of a position in which substantially the whole of said working fluid passing through said nozzle means impinges on said turbine blades, a plate, thrust bearing means between said plate and said shaft so that said plate is axially fixed with respect to and rotatable relative to said shaft, a spring between said casing and said plate to urge said rotor out of said position, a first helical gear secured on said rotor shaft, a second helical gear non-slidably journalled in the casing and meshing with said first gear, said first helical gear having a helix sense such that the torque reaction on it when it transmits torque to said second helical gear has a component urging said turbine rotor towards said position, and driving connection between said second gear and said driving clutch member whereby, on attainment of a pre-selected value of the torque transmitted through said helical gears, the turbine rotor is constrained to move into the position in which substantially the whole of said working fluid jet impinges on said turbine blades.

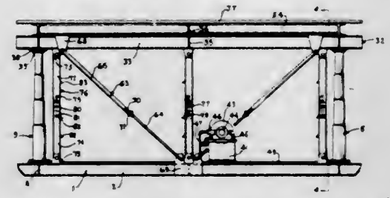
2,614,799
MULTISTAGE TURBINE DISK CONSTRUCTION FOR GAS TURBINE ENGINES
Charles Alan Judson, Borrowash, John Radcliffe Read, Duffield, and Philip Edgar Hunter, Chellaston, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application October 13, 1947, Serial No. 779,553
In Great Britain, October 2, 1946
Section 1, Public Law 690, August 8, 1946.
Patent expires October 2, 1966
17 Claims. (Cl. 253—69)

1. A turbine-rotor-assembly for a multi-stage axial-flow gas-turbine engine comprising a pair of blade-carrying discs which are axially spaced with respect to one another, one of said discs being formed centrally with an axial bore and means to support said one disc from the other disc comprising a bolt-like member arranged to extend through the axial bore in said one disc and to be engaged with a nut-like member to clamp the



bolt-like member axially with respect to said one disc, said nut member being located between said discs and being secured to said other disc, and abutment means located between the two discs and comprising a spacer ring having abutting engagement with the two discs at a radius substantially greater than the radius of the bolt member.

2,614,800
PORTABLE ELEVATORY PLATFORM UNIT
Charles D. Garlinger and Roger E. Fuller, Houston, Tex.
Application August 5, 1947, Serial No. 766,243
4 Claims. (Cl. 254—2)

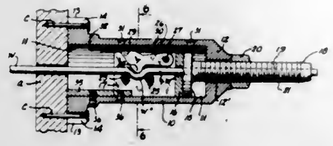


4. With an elevatory platform including a portable frame and a platform member adapted to be elevated above said portable frame, jacks under at least each corner of said platform member, each jack comprising, a cylinder having a base and a piston means therein, said cylinder bases being rigidly mounted on said frame, a ball and socket connection between the top of said piston means and said platform member, and means on said frame to supply fluid to, and to withdraw fluid from each jack cylinder individually to individually operate said piston means, and diagonally extending pairs of inter-telescoping brace members, the uppermost member being pivotally connected to said platform member proximate one upright and the lowermost member being pivotally connected to said frame proximate an adjacent upright, and connection means for each pair of brace members to connect said pair of brace members together.

2,614,801
WIRE HOLDING AND PRESTRESSING DEVICE
Oswald Mazzei, New York, N. Y., assignor to Aircraft Hardware Mfg. Co. Inc., New York, N. Y., a corporation of New York
Application July 26, 1950, Serial No. 175,925
5 Claims. (Cl. 254—67)

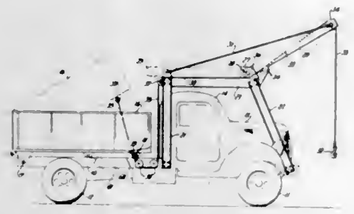
1. An improved device designed to prestress and maintain reinforcing wire taut comprising a cas-

ing, a head section at one end of said casing, wire holding means reciprocable in said casing, a shaft portion extending from said wire holding means and projecting from the head section of said casing, and take up means associated with siad shaft portion coacting with said head section to manipulate said wire holding means within said



casing, said wire holding means including a reciprocable block, a wire gripping dog pivotally mounted on said block, spaced studs designed to support an end section of the wire extending into said casing; and cam means within said casing operative to manipulate said dog into gripping engagement with the stud spanning portion of the wire end section.

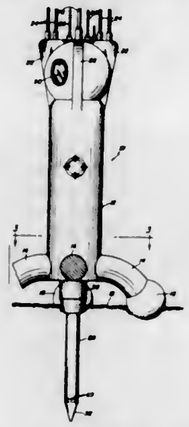
2,614,802
HOIST
Leonard McGihon, San Leandro, Calif., assignor to King Sales & Engineering Co., San Francisco, Calif., a corporation of California
Application September 8, 1947, Serial No. 772,854
5 Claims. (Cl. 254—139.1)



5. A hoist attachment for a dump body truck having an operator's station, comprising an elevated framework over said operator's station and supported on said truck, and a boom pivotally mounted on such elevated portion of said framework above the operator's line of vision for folding movement from a forwardly projecting operative position above said operator's station to a rearward carrying position over said elevated framework.

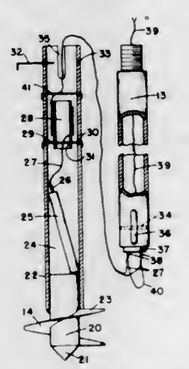
2,614,803
SUBMARINE DRILLING AND PUMPING APPARATUS
Walter Wiggins, Jr., Washington, D. C.
Application July 18, 1950, Serial No. 174,539
8 Claims. (Cl. 255—2)

1. A submarine well drilling and pumping apparatus, comprising a body adapted to be submerged in water and provided with support means to rest on a sea bed, a hoisting cable and an oil outlet hose connected to said body, a hollow well point slidable vertically in said body and projectable downwardly beyond said support means whereby to penetrate submarine strata, power actuated means for sliding said well point, the lower end portion of said well point being provided with oil inlet openings, and power actuated means for delivering fluid under pressure



from the interior of said well point through said hose.

2,614,804
APPARATUS FOR DRILLING UNDER WATER
Charles H. Carlisle, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application January 29, 1949, Serial No. 73,507
4 Claims. (Cl. 255—4.8)

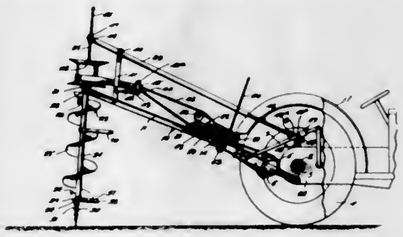


1. Apparatus for placing a charge of explosive in the earth beneath a body of water comprising a bit member defining a cavity therein closed at its lower end and adapted to retain a charge of explosive, a drill stem adapted to advance said bit member into the earth, and means including a longitudinally slidable joint cooperating on adjacent ends of the bit member and drill stem adapted to release the former from the latter during withdrawal of the drill stem from the earth.

2,614,805
POSTHOLE DIGGER
Vernie A. M. Swan, Hartington, Nebr.
Application December 5, 1946, Serial No. 714,158
1 Claim. (Cl. 255—19)

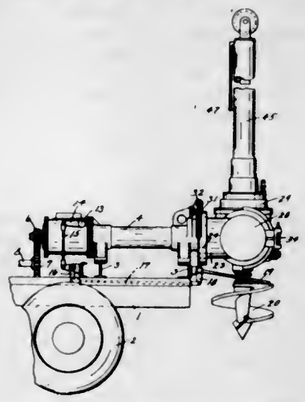
A post hole digger comprising a frame adapted to be mounted back of a tractor having a power take-off and swung vertically to raised and lowered positions, an auger disposed vertically under the rear end of the frame, a shaft for said

auger projecting upwardly therefrom and rotatably mounted through a portion of the frame, a yoke extending transversely of the frame and projecting upwardly therefrom, a bar extending longitudinally of the frame and in spaced relation to its rear end being pivotally connected with said yoke for vertical tilting movement, a rod threaded at its rear end to the front end of said bar, a sleeve rotatably holding the front end of said rod and adapted to be pivotally connected with the tractor for vertical tilting movement, a bear-



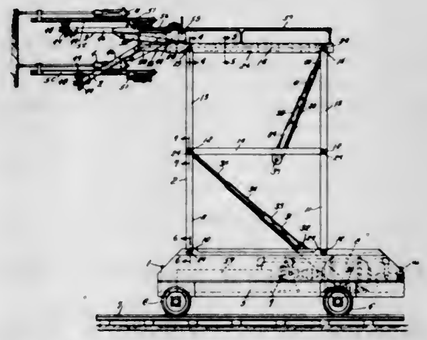
ing pivotally mounted in vertical position at the rear end of the bar for tilting about a horizontal axis and through which the upper portion of the auger shaft rotatably and slidably passes, said rod when turned in the sleeve shifting the bar longitudinally by its threaded engagement therewith and thereby tilting the auger shaft in a direction longitudinally of the frame and angularly adjusting the auger, and means for transmitting rotary motion from the power take-off of the tractor to the auger shaft.

2,614,806
HOLE BORING MACHINE
George H. Connors, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a corporation
Application April 16, 1948, Serial No. 21,389
8 Claims. (Cl. 255—22)



1. In an earth boring machine, a boring head, a rotating carrier therein, a boring bar mounted in the carrier for rotation therewith and for substantially non-retarded reciprocation therein whereby the weight of said bar in conjunction with an auger carried at the lower end thereof is capable of effecting a downward gravity feed, drive means for rotating said carrier, optionally operative means comprising a rack on said bar and a pinion on said carrier for supplementing said gravity feed, means for rotating said pinion comprising a ratchet wheel keyed thereto and pawl means for actuating said wheel, said ratchet wheel and pawl means being mounted on said carrier and rotative therewith, a motivating means mounted on said boring head and engageable with said pawl means by said rotation for intermittently driving said pawl means to actuate said ratchet wheel and said pinion to feed said bar downwardly.

2,614,807
ROCK DRILLING APPARATUS
John C. Curtis, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application October 21, 1947, Serial No. 781,149
7 Claims. (Cl. 255—51)

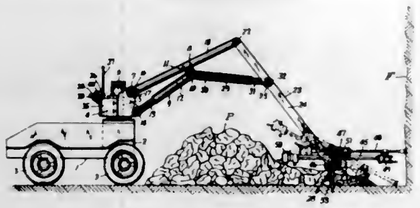


1. In a drilling apparatus, a portable base, a horizontal frame overlying said base, a drill mounting on said frame providing a support for a drilling tool, and an adjustable supporting structure mounted on said base and carrying said frame and adjustable to elevate said frame from a position lying close to the top of said base to a position a substantial distance above said base, said supporting structure comprising a pair of parallel arms pivotally connected at one end to said base, an intermediate frame connecting the opposite ends of said arms for maintaining the same in parallelism, a second pair of parallel arms pivotally connected at one end to said opposite ends of said first pair of arms, said second pair of arms pivotally connected at their opposite ends to said horizontal frame, an extensible power device connected between said base and said intermediate frame for swinging said first pair of arms about their pivots relative to said base, and an extensible power device connected between said intermediate frame and said horizontal frame for swinging said second pair of arms about their pivots relative to said first pair of arms.

2,614,808
ROCK DRILLING APPARATUS
John C. Curtis, Claremont, N. H., and Earl E. Miller, El Paso, Tex., assignors to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 14, 1948, Serial No. 54,514
4 Claims. (Cl. 255—51)

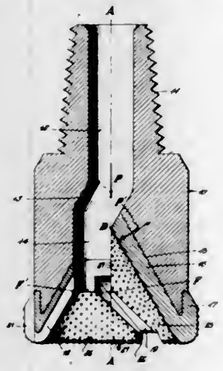
1. In a rock drilling apparatus, the combination comprising a mobile base, an elongated adjustable supporting boom pivotally mounted on said base and extending forwardly a substantial distance in advance of said base, said boom including an inner boom frame pivotally mounted on said base to swing in vertical planes with respect thereto about a horizontal transverse axis,

and an outer boom frame pivotally mounted on the outer extremity of said inner boom frame to swing about a parallel axis in vertical planes with and relative to said inner boom frame, said outer boom frame forming a continuation of said inner boom frame and extending a substantial distance outwardly beyond said inner boom frame, power devices for independently swinging



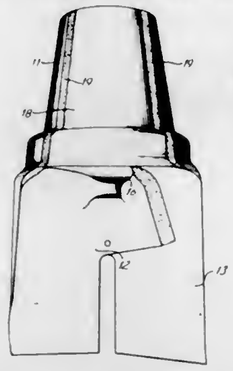
said boom frames about their respective pivots, said outer boom frame carrying a cross bar at its outer extremity, and a drill guiding frame swivelly mounted on said cross bar for adjustment in vertical planes into different angular positions about an axis parallel with said axes and along which a hammer rock drill is guided for movement to and from the work.

2,614,809
DIAMOND DRILL BIT FOR ROTARY WELL DRILLING
John A. Zublin, Los Angeles, Calif.
Application July 26, 1951, Serial No. 238,697
6 Claims. (Cl. 255—61)



1. A diamond drill bit for drilling in hard formations, comprising a bit body, a channel extending downwardly through said bit body, a conically shaped recess in the bottom of said bit body, the apex of said conical recess lying substantially in the axis of rotation of said bit, a portion of said conical surface less than its circumference being cut away near the apex thereof to provide an open communication from said channel into said conically shaped recess, the uncut-away portion of said conical surface being effective under the weight on the bit to continually break away the apex of the conical formation produced by said bit during progressive drilling thereby, a plurality of grooves cut in and extending from said open communication to the periphery of said bit, the sections of said conical surface intermediate said grooves carrying heterogeneously mounted diamond cutting elements at least one of said sections of said conical surface terminating substantially at the center of rotation of said bit, and at least one of said sections terminating short of the center of rotation of said bit.

2,614,810
ROTARY BIT
Charles C. Goolsbee, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application June 16, 1947, Serial No. 754,922
7 Claims. (Cl. 255—61)



1. A rotary drill bit comprising two pairs of segments joined together and providing a bit with a hollow pin portion and cutters, the individual segments of each pair being substantially identical and being arcuately shaped with their longitudinal edges abutting to form a hollow pin, each of the segments of one pair having a portion making up a part of the pin of the bit and another portion providing a drag-type bit blade providing a cutter, one of the segments of said pair also including a lateral extension having a concavity therein and an outer edge lateral extension, on assembly of the bit, overlies and cooperates with the surface of the other segment of said pair with said outer edge abutting the blade surface of said other segment to define an enclosed passage communicating with the interior of the hollow pin for directing drilling fluid upon the blade of said last segment, the individual segments of the other pair providing substantially the remainder of the pin.

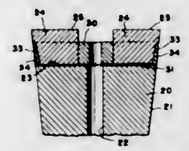
2,614,811
DRILL
Norman G. Melendy, Lowell, Mass., assignor to H. E. Fletcher Company, West Chelmsford, Mass., a corporation of Massachusetts
Application January 10, 1949, Serial No. 70,072
1 Claim. (Cl. 255—63)

An improved drill for forming holes in granite and similar bodies comprising, in combination, a shank formed with a transverse slot at its lower end and having side wall portions obliquely merging towards said slot, a cutting element having horizontal shoulders defining a rectangular upper shank portion, said rectangular upper shank portion being embedded in the slot in said shank, said cutting element having a cutting edge portion defined by V-shaped walls, the end walls of said cutting element being substantially flat, said flat end walls intersecting the cutting edge and lying in planes parallel to the axis of the drill, said V-shaped walls of the cutting edge portion and adjacent oblique shank portions merging to form continuous bevelled sides which terminate at the outer end in a transverse cutting face, the shank at areas adjoining the opposite flat end faces of the cutting edge being flat and lying flush with the end walls of the cutting element, and the shank further being provided with elongated diametrically arranged relatively thickened areas for a substantial distance to provide projecting reinforced portions whose extremities merge with the flat portions of the shank adjacent the flat end walls of the



cutting element, the external surfaces of the projecting portions extending lengthwise in parallel relation to the axis of the drill and along the neck of the drill for a short distance to provide elongated strengthened shock resistant areas, and said shank having longitudinal flutes which continue across said bevelled sides intermediate the reinforced portions to approximately the point of junction between the shank and cutting element.

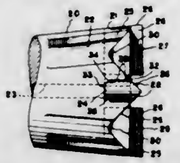
2,614,812
ROCK DRILLING TOOL
Benjamin F. Shepherd, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application June 25, 1949, Serial No. 101,360
4 Claims. (Cl. 255—64)



1. A rock drilling tool, comprising a body having a slot in an end thereof opening into the periphery of the body, an insert in the slot having a cutting portion forwardly of the body extending to the periphery of the body, said insert having at least a portion of its outer end surface lying within the slot, and a metallic filler within the slot to overlie such portion of the end surface of the insert.

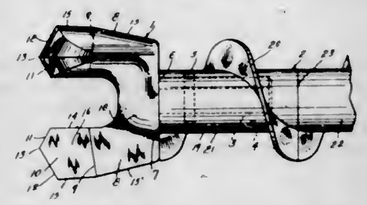
2,614,813
ROCK DRILLING TOOL
Benjamin F. Shepherd, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application July 8, 1949, Serial No. 103,604
2 Claims. (Cl. 255—64)

1. A rock drilling tool, comprising a body having a radial slot in an end thereof, a hard metal insert in the slot having a cutting edge extending across its forward portion, a metallic bonding connection for securing the insert to the surfaces of the slot, and protuberances on



the insert lying in parallelism with the cutting edge and embedded in the bonding connection and being spaced from the adjacent surfaces of the slot.

2,614,814
COAL DRILL BIT
Arden T. Jones, New Philadelphia, Ohio, and Clayton A. Newport, Ferndale, Mich., assignors to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 23, 1948, Serial No. 66,932
7 Claims. (Cl. 255—69)

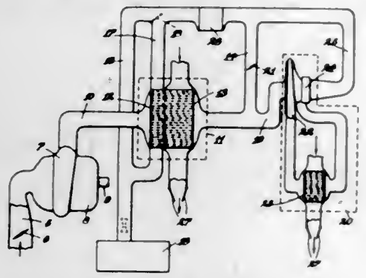


1. A rotary drill bit adapted for attachment to a drill steel comprising a bit body having forwardly projecting cutter arms of symmetrical formation and spaced equidistantly from the bit center, said cutter arms being provided with plane front faces lying in planes which are inclined in relatively opposite directions slightly with respect to the axial center line of the bit to provide a forward rake, and which planes intersect the axial center line of the bit at a point spaced a substantial distance rearwardly of the foremost surfaces of the bit, and said plane faces so disposed with respect to each other and the body of the bit that a straight line connecting the outer ends of their intersections with a plane perpendicular to the bit axis extends diametrically with respect to the bit and that such intersections make like angles to such diametric line and said angles are disposed in each case, as regards the direction of bit rotation, to the rear of said diametric line.

2,614,815
AIRCRAFT CABIN PRESSURIZING AND AIR CONDITIONING APPARATUS
Francis Charles Ivor Marchant and Gordon Manns Lewis, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company
Application January 19, 1948, Serial No. 3,094
In Great Britain January 20, 1947
1 Claim. (Cl. 257—9)

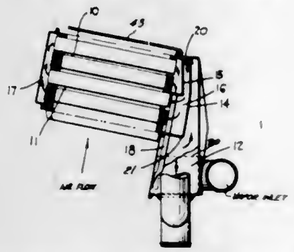
Apparatus for pressurizing and conditioning air to be delivered to the cabin 16 of an aeroplane comprising a primary compressor 7 to draw air from the ambient atmosphere and deliver it under pressure at a high temperature, a reheater 12, a duct 10 to convey air from said compressor to the reheater, a primary cooler 13 to receive the compressed air from the reheater, a duct to de-

liver ambient air to said primary cooler to pass in heat exchange relationship with compressed air from said reheater, valve means 27 to regulate the quantity of ambient air passing through the primary cooler, a main duct (14, 15) to convey compressed air from the primary cooler directly to the cabin, a conduit 17 to bypass said main duct and convey compressed air from the primary cooler indirectly to the cabin by way of the reheater said compressed air passing in heat exchange relationship with the heated compressed air passing from the primary compressor to the primary cooler, a valve means 18 to regulate the quantity of air going to the cabin directly and



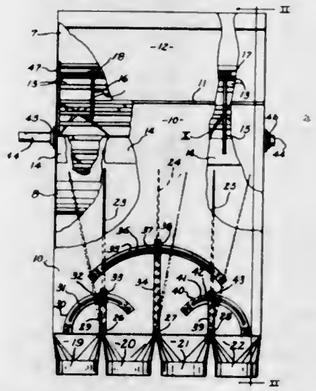
also indirectly through the reheater, a secondary cooler 20, a conduit (19, 25) to bypass said main duct and convey compressed air from the primary cooler to the secondary cooler and thence to said reheater, a secondary-cooler valve 21 to regulate the quantity of compressed air passing around the secondary-cooler bypass which air is over cooled in the secondary cooler to lower its temperature below ambient air temperature and its dew point, and a water separator 26 in the secondary-cooler bypass to remove moisture from the air delivered by the secondary cooler to the reheater, said reheater raising the temperature of the air delivered by the water separator prior to its introduction into the cabin.

2,614,816
CONDENSER
Robert R. Hull, Los Angeles, Calif., assignor to Engineering Controls, Inc., Los Angeles, Calif., a corporation of California
Application February 24, 1947, Serial No. 730,392
10 Claims. (Cl. 257—46)



1. A condenser having two sets of tubes at an angle to the horizontal, means enclosing the upper ends of the tubes for communicating the upper ends of the sets of tubes with one another, means enclosing the lower ends of the tubes and extending down below the lower ends of the lower tubes and providing a liquid reservoir, a liquid and vapor inlet for the condenser leading directly to the liquid reservoir below the liquid level therein, a liquid outlet from the condenser leading directly from said liquid reservoir below the liquid level therein, means directing vapor rising from the reservoir into the lower ends of one of the sets of tubes to heat the outside of the same and preventing the vapor from entering the lower ends of the other set of tubes, an air inlet, an air outlet, said sets of tubes being in an air passageway which extends from said air inlet to said air outlet with the outside of the other set of tubes being in an air stream which in passing from said air inlet to said air outlet flows from the outside of said one set of tubes to convey heat from the outside of said one set to the outside of said other set.

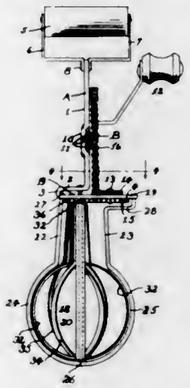
2,614,817
MIXER FEEDER FOR FLOUR MILLS
Carl A. Pyle and Claude A. Roulston, Wichita, Kans.
Application July 1, 1949, Serial No. 102,571
1 Claim. (Cl. 259—45)



In a mixer, feeder and distributor device of the kind described, said device having a combination material receiving and discharging trough therein, said trough having means therein for mixing and distributing the said material in the trough, and finally moving the material to spill in an even sheet over one edge of the trough, said means for mixing, distributing and spilling said material being a reel, said reel being rigidly carried on a shaft, said shaft being revolvable by power outside the trough, said reel having a pair of end plates and a series of elements spaced apart and connecting between said end plates and being positioned adjacent the edges of the end plates, a second series of supporting and spaced apart elements connecting between said end plates and being located in a circular position intermediate the first said series of elements connecting between the said end plates and the center of said plates, the second said series of supporting elements having two groups of spirally positioned blades thereon, said groups of blades being directed in opposing directions, each group of spiral blades being divided into two sections that are positioned, one on the outside and the other on the inside of the circle of the second said series of supporting elements connecting between the said end plates.

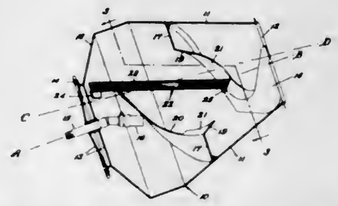
2,614,818
BEATER
Lavern Bordwell, New York, N. Y., assignor to United Royalties Corporation, New York, N. Y., a corporation of New York
Application May 11, 1950, Serial No. 161,345
2 Claims. (Cl. 259—131)

1. In a beater, a frame having a shank portion the lower end of which is bent into a U-shape to provide an upper short leg and a lower long leg arranged in spaced parallel relationship and disposed in substantially horizontal planes when the beater is in use, the long leg comprising a base and the shank extending at right angles thereto from a point substantially intermediate the length of the base, a holding handle connected to the upper end of the shank and paralleling the base and being disposed above the same, a pair of rotatably mounted beaters supported from and disposed below the base and each being provided with a similar sized gear, said beater gears being disposed beneath one end of the base and meshing with one another to rotate the beaters in



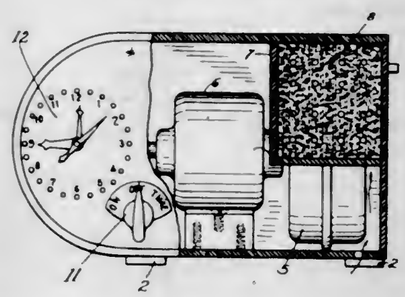
opposite directions, a freely rotatable shaft extending through the opposite end of the base and provided above the base with an upper gear and below the base with a lower gear larger in size than the upper gear, said lower larger gear meshing with one only of the beater gears, a main drive gear wheel larger than any of the aforementioned gears rotatably mounted on the shank and operatively meshing with the upper small gear carried by the aforementioned shaft, and an operating handle secured to the main drive gear wheel for rotating the same and through said chain of gears rotating the beater blades at a speed much in excess of the speed of rotation of the main drive gear wheel.

2,614,819
DRUM FOR INCLINED AXIS CONCRETE MIXERS
Charles I. Longenecker, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application June 7, 1950, Serial No. 166,638
3 Claims. (Cl. 259—175)



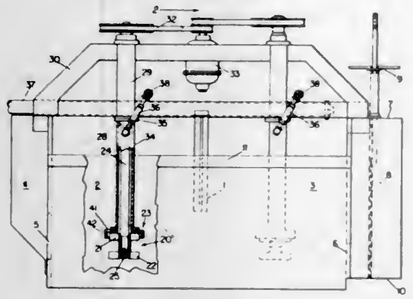
1. In concrete mixing apparatus of the class described, the combination of a drum having a longitudinal axis inclined to the horizontal and about which the drum is rotatable, the lower end of said drum being closed and the higher end thereof having a material-transfer opening; helically arranged mixing and conveying blades secured to and extending inwardly from the perimetric wall of said drum and adapted through rotation of the latter about its said inclined axis to continuously move perimetral portions of a batch of material in the drum away from the closed end of the latter and upwardly toward said material-transfer opening, the inward edge portions of said helical blades defining a central core space in the drum in which the elevated portions of the material may cascade downwardly from the higher end of the drum toward the lower end thereof; and an elongated substantially flat supplemental mixing blade disposed in and extending longitudinally of said core space to one side of the drum axis for imparting movement to portions of the cascading material in a direction transverse to the drum axis, one end of such blade adjoining and being secured to the closed end of the drum while its other end is supported adjacent said material-transfer opening, the outward longitudinal edge of said blade being disposed substantially along the outer limit of said core space as defined by said inward edge portions of the helical blades, and the inward longitudinal edge of the supplemental blade lying in the region of the drum axis.

2,614,820
AIR PERFUMING DEVICE
Stephen P. Boydjieff, Reading, Pa.
Application May 5, 1949, Serial No. 91,506
1 Claim. (Cl. 261—26)



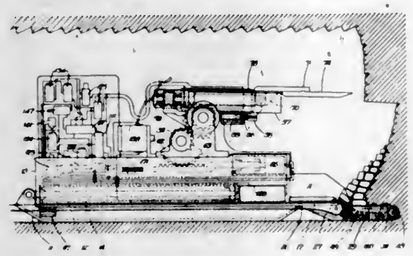
Apparatus for diffusing perfumed vapor and the like in a room, comprising a casing having bottom, front and rear panels, a plurality of air outlet openings in the front panel and a plurality of air inlet openings in the bottom panel, a horizontally mounted blower in the casing for drawing air through said inlet openings and discharging air through said outlet openings, a compartment adjacent said panel outlet openings and within said casing including a door for gaining access thereto, a sponge contained within said compartment, said sponge having a plurality of slots each extending in horizontal parallel relationship and along the direction of air flow emanating from the outlet of said blower and providing intercommunication between said blower outlet and said outlet openings in the front panel, said sponge being saturable with a liquid the vapor of which it is desired to diffuse, an electrical system including a motor for driving said blower and a timer switch for controlling the operation of said motor for permitting operation of said blower at predetermined timed intervals so as to make it possible to blow perfumed vapors and the like intermittently and thereby maintain a predetermined vapor concentration in the surrounding air.

2,614,821
FLOTATION APPARATUS
Kenneth L. Tatman, Leadville, Colo., assignor to Resurrection Mining Company, Leadville, Colo., a corporation of Delaware
Application April 14, 1949, Serial No. 87,437
4 Claims. (Cl. 261—93)



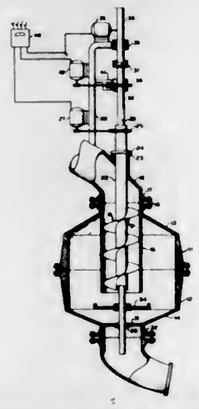
1. The improvement in flotation cells which comprises an impeller with two sets of blades spaced apart vertically and arranged in the cell to rotate within the liquid pulp, the upper blades being set to force the pulp downward, the lower blades being set to force the pulp upward into impinging contact with the downwardly moving pulp, a shroud over the upper blades having a depending skirt concentrically disposed with respect to the upper blades, and means for supplying air under pressure under the shroud which is drawn downward along with the pulp by the upper blades.

2,614,822
MINING MACHINE
Frederick B. Miller, Chicago, Ill.
Application June 14, 1946, Serial No. 676,662
19 Claims. (Cl. 262—12)



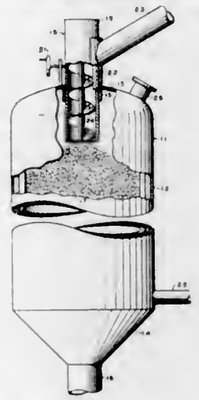
11. In a mining machine, in combination, a main frame, a wedge plate mounted by the frame for reciprocating movement relative thereto, motor means for reciprocating said wedge plate to break down the material to be mined, said motor means including a cylinder, a piston mounted for movement in the cylinder and operatively connected to the wedge plate, selective valve means having connection with a source of fluid under pressure, fluid conducting means respectively connecting the selective valve means with opposite ends of the cylinder for alternately delivering pressure fluid to and venting said fluid from respective ends of the cylinder as determined by the selective valve means, whereby reciprocating movement is imparted to the piston and thus to the wedge plate, the said pressure fluid being delivered to the cylinder momentarily attaining an excessive pressure such as to exceed the working pressure at the end of each stroke of the piston, and control means responsive to said excessive pressure at the end of each stroke of the piston and operative to actuate the selective valve means to reverse the flow of pressure fluid, whereby pressure fluid is delivered to that end of the cylinder previously vented and the opposite end is vented to cause a return stroke of the piston.

2,614,823
PEBBLE HEATER APPARATUS
Robert Berkemeyer, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 24, 1948, Serial No. 45,901
11 Claims. (Cl. 263—19)



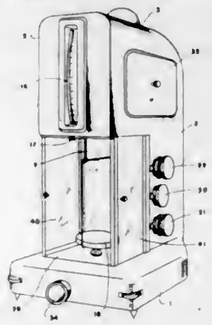
1. An improved pebble heater apparatus which comprises in combination a substantially vertically disposed closed pebble heater chamber, said chamber having a pebble inlet and an effluent outlet conduit in its upper end portion, and a gas inlet and a pebble outlet in its lower end portion; a closed gas heating chamber having a pebble inlet and an effluent outlet in its upper end portion and a gas inlet and a pebble outlet in its lower end portion, said gas heating chamber being in substantially coaxial alignment with said pebble heating chamber and said pebble inlet of said gas heating chamber communicating with said pebble outlet of said pebble heating chamber; a pebble feeder which comprises in combination an outer shell, a pebble inlet conduit communicating with the pebble outlet conduit of said gas heating chamber and extending downwardly into the chamber within said shell, a screw conveyor rotatably mounted in said pebble inlet conduit on a hollow stem which extends upwardly through the upper end wall of said shell, table support means rotatably extending coaxially through and out of each end of said hollow stem, a table rigidly mounted on said support means and spaced below the outlet end of said pebble inlet conduit, elevation means operatively connected to the upper end portion of said table support means, reversible-variable speed rotation means operatively connected to said screw conveyor, and a pebble outlet conduit in the lower portion of said shell; gravity measuring means operatively connected to said effluent outlet of said gas heating chamber and said elevation means; first temperature measuring means in the pebble outlet of said gas heating chamber and operatively connected to said reversible-variable speed rotation means; and elevator means connected at its lower end to said pebble outlet conduit of said pebble feeder and at its upper end to said pebble inlet conduit to said pebble heater chamber.

2,614,824
PEBBLE HEAT EXCHANGER
Louis J. Weber, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 11, 1948, Serial No. 53,876
2 Claims. (Cl. 263—19)



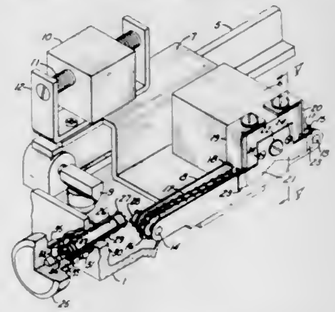
1. A pebble heat exchange chamber which comprises in combination an upright closed outer shell having a pebble outlet in its lower end portion; at least one upright pebble inlet conduit in the upper end of said chamber and forming the sole pebble inlet means thereto, each said inlet conduit extending downwardly into the upper portion of shell only to the desired pebble bed level therein and each inlet conduit having an inlet opening in its upper portion; a helix within each said upright pebble inlet conduit being closely encompassed by said pebble inlet conduit, closing said conduit except for the helical path formed thereby and extending from the lower end of the conduit to the pebble inlet opening in said conduit; a heat exchange fluid inlet in the lower portion of said shell; and gaseous effluent outlet means in the upper portion of said shell.

2,614,825
PRECISION BALANCE
Zdeněk Kadlec and Eduard Douša, Prague, Czechoslovakia, assignors to Meopta, national corporation, Prerov, Czechoslovakia
Application December 28, 1948, Serial No. 67,682
In Czechoslovakia January 23, 1948
2 Claims. (Cl. 265—54)



1. In a precision balance, more particularly laboratory inclination balance, the combination of a balance beam, a balance pan, poises, supporting means for said pan and said poises, weight indicating means, and an essentially C-shaped casing with a lower and an upper horizontally extending arm and a vertical connecting arm therebetween, the lower horizontal arm forming the base for the balance casing, the upper horizontal arm housing the balance beam and the weight indicating means, the vertical connecting arm housing the poises and their supporting means, the balance pan being arranged within the free space between the said three arms forming the C-shaped balance casing.

2,614,826
TARE OFFSETTING MECHANISM
Norman E. Hart, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey
Application November 9, 1949, Serial No. 126,357
5 Claims. (Cl. 265—56.5)



1. In a tare device for a weighing scale, in combination, a base, a lever fulcrumed on the base, a member mounted on a lever of the scale, the member providing a track parallel to the pivot plane of the lever, a weight mounted on the member for movement along the track, means on the member for moving the weight along the track, said means having a portion adjacent the fulcrum axis of the lever, a shaft extending through and journaled in the base of the scale, said shaft having a portion adjacent the fulcrum axis of the lever, and a disengageable coupling engaged by movement of the shaft for operatively connecting the shaft to said weight moving means, said coupling having its force transmitting portions at the fulcrum axis of the lever whereby substantially no moment is exerted on the lever by force transmitted through the coupling.

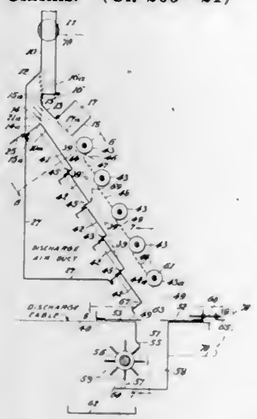
2,614,827
TUBULAR JOINT
William H. Peach, Chicago, and Royal D. Malm, Evanston, Ill., assignors to Clayton Mark & Co., Evanston, Ill., a corporation of Delaware
Application January 4, 1946, Serial No. 639,037
3 Claims. (Cl. 265—107)



1. In combination, a pair of connected tubular members, the first member being larger in diameter than the second member, the first member having an aperture having a diameter at least as large as the outside diameter of the second member, the second member having a portion extending into said first member through said aperture, the end of the second tubular member within the first tubular member being in a

plane normal to the axis of the second tubular member, a portion of the second tubular member extending into the first tubular member having a plurality of substantially circular holes forming weakened portions between said holes, said weakened portions being collapsed within the first tubular member providing spaced securing shoulders disposed within and engaging said first tubular member for preventing relative rotation between the tubular members.

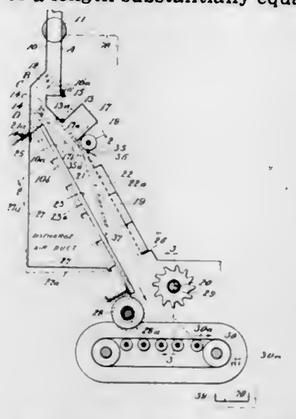
2,614,828
SINTERING MACHINE
Walter Kelsey, New York, N. Y.
Application March 2, 1950, Serial No. 147,317
8 Claims. (Cl. 266—21)



4. In a sintering machine, the combination of a sinter pass chute having parallel front and rear walls and enclosing sidewalls and an open upper receiving end and an open lower discharging end, said front wall being inclined to the vertical, said inclination being such as to retard but not prevent the flow of the stock under gravity action, sinter breaking means within the sinter pass chute, and a controlled paddle wheel below the lower end of said sinter pass chute intercepting the broken sinter with its paddles, to determine the rate of flow of the broken sinter through the said discharge opening, and thereby the rate of descent of the stock and sinter in the sinter pass chute.

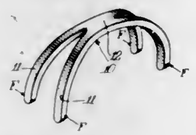
2,614,829
SINTERING MACHINE
Walter Kelsey, New York, N. Y.
Original application March 2, 1950, Serial No. 147,317. Divided and this application October 19, 1950, Serial No. 191,051
1 Claim. (Cl. 266—21)

In a sintering machine, the combination of a sinter pass including a top wall, a parallel bottom wall spaced therefrom, and sidewalls connecting the top and bottom walls forming an elongated sinter pass chute for guiding stock in the mass throughout its cross-section, having an open upper receiving end, and an open lower discharging end, said top and bottom walls having an inclination to the vertical to retard but not to prevent the descent of the stock by gravity from said receiving end to said discharging end, a stock igniting device at the upper end of said top wall for igniting the adjacent surface of the stock within the upper end of said sinter pass, and means supplying air to the stock in the sinter pass chute for continuing the ignited surface during the flow of the stock in the sinter pass chute until the stock in said sinter pass chute is converted to sinter for discharge at its lower end, with a stock feeding chute having an open top for the receipt of stock and an open bottom for the discharge of stock and including four stock directing portions, all portions having front, rear, and side walls, the first portion including parallel spaced vertical walls, said second portion having its front wall in an inclined direction outwardly of the front wall of said first portion, in a direction at a right angle to that of the top wall of the sinter pass, and a bottom wall on the rear wall of the first portion of a length substantially equal to the



distance from said front to said rear wall of said first portion, said third portion including vertical parallel spaced top, rear and sidewalls, and said fourth portion having its rear wall in inclined direction outwardly from the rear wall of said third portion in the same direction as the direction of the top wall of the sinter pass, and in alignment therewith, whereby the stock mass flows first in a vertical direction, then in an inclined direction at a right angle to direction of the top wall of the sinter pass, then in a vertical direction, and then in an inclined direction the same as the direction of the top wall of the sinter pass into the receiving end of the sinter pass in line with the inclined direction of the movement of the stock mass of the sinter pass.

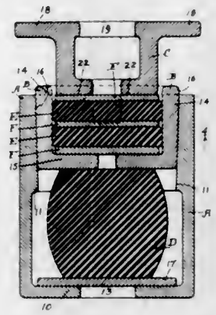
2,614,830
SPRING
Wallace F. Mitchell, Chicago, Ill., assignor to M B G Corporation, Chicago, Ill., a corporation of Illinois
Application May 25, 1948, Serial No. 29,031
5 Claims. (Cl. 267—1)



1. A compression spring comprising an arcuate-shaped body of sheet spring material, said body having a central portion and paired, arcuately diverging arms extending symmetrically equal extents from opposite ends of said central portion, said central portion and said arms all having their inner surfaces conforming in arcuate respect with the arcuate surface of a right

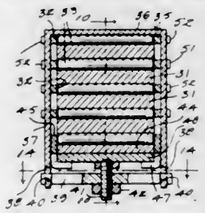
circular cylinder, said arms all having their respective outer ends terminating substantially on an axial plane of the cylinder and being spaced equidistant from a medial plane passing through said central portion and perpendicularly to the axis of revolution of the cylinder.

2,614,831
FRICTION SHOCK ABSORBER FOR TRUCKS OF RAILWAY CARS
William E. Withall, Hinsdale, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application July 16, 1949, Serial No. 105,167
2 Claims. (Cl. 267—9)



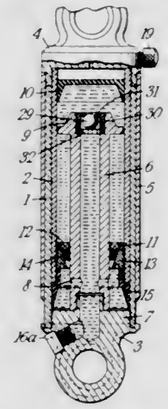
1. In a friction shock absorber, the combination with a friction casing having interior friction surfaces at one end thereof; of friction shoes in sliding engagement with said friction surfaces; a rubber element within the casing yieldingly opposing inward movement of the shoes; inturned, horizontal flanges at the inner ends of said shoes; a spacing plate bearing on said flanges; a rubber pad bearing on said spacing plate; a second spacing plate bearing on said pad; a second rubber pad bearing on said second plate; a third spacing plate bearing on said second named pad; and a pressure transmitting plunger movable toward and away from said casing, the inner end of said plunger bearing on said third named spacing plate.

2,614,832
VEHICLE SPRING
William H. Godfrey, Detroit, Mich.
Application May 16, 1949, Serial No. 93,592
2 Claims. (Cl. 267—49)



1. A spring structure comprising a plurality of superposed leaf members, notched retainers between adjacent leaf members, a U-shaped shackle positioned above the uppermost of said retainers and formed with a pair of downwardly projecting legs, the lowermost of said retainers being formed with pairs of downwardly projecting arms, a lower retainer plate having outer notches in which said arms engage, inwardly projecting lugs carried by said arms engaging beneath said plate, pressure screws threaded through said plate compressing said leaf members, a pressure bar below said retainer plate, means securing the ends of said bar to said legs, and a pressure screw threaded through said bar engaging said lower retainer plate to compress said leaf members.

2,614,833
OLEO PNEUMATIC SHOCK ABSORBER
Eugene Laugaudin, Toulouse, France
Application March 25, 1948, Serial No. 16,927
In France March 27, 1947
8 Claims. (Cl. 267—64)

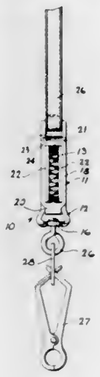


1. A hydraulic-pneumatic shock absorber comprised by two cylinders mounted in telescopic sliding relationship forming a variable volume, plugs closing one end of each of said cylinders, a rod having a central bore mounted at one end on the plug closing the outer cylinder and at its other end a piston slidably mounted in the inner cylinder, said rod having adjacent the end mounted on the plug holes communicating the bore with the outer cylinder, a valve in the bore in said rod and restricting the flow of liquid therethrough during relative extension of said cylinders, a valve ring in the inner cylinder having a valve seat of varying diameter surrounding said rod, a valve member having a surface of complementary varying diameter intermediate the rod and the valve ring, said valve member cooperating with the valve ring to allow free flow of liquid into the inner cylinder during telescoping of said cylinders but blocking said flow during relative extension of said cylinders, and a free piston in the inner cylinder intermediate the closed end thereof and the piston on said rod and dividing said inner cylinder into air and liquid chambers.

2,614,834
SPRING LINK COUPLING FOR DOG LEADS, BABY HARNESS OR THE LIKE
Harold Tomkins, Walsall, England, assignor to Reliance Pet Supply Inc., New York, N. Y., a corporation of New York
Application October 26, 1950, Serial No. 192,175
In Great Britain November 17, 1949
3 Claims. (Cl. 267—71)

1. A spring link coupling comprising a substantially rectangular, flat open-frame slide member having a central opening, a flat, hollow, substantially rectangular body member, and a

coiled compression spring, said body member being formed of a single flat strip of sheet metal of elongated rectangular shape having a pair of windows stamped therein equidistant from the central lateral axis of said strip, said strip being bent upon itself at a fold along its central lateral axis to provide a pair of spaced, parallel and alined front and rear longitudinal walls in which said windows are in registry, open sides, and a closed bottom neck portion defined by said fold, the top portions of said longitudinal walls being bent inwardly in flush abutment with each other a closed bottom neck portion defined by said fold, the top portions of said longitudinal walls being spaced apart a sufficient distance to form a central recess in said body member of sufficient width to house said slide member, said recess extending continuously from the top wall to the



bottom neck portion of said body member, said neck portion being of reduced width relative to the longitudinal walls, said slide member being mounted for longitudinal sliding movement within said body member with the bottom end of said slide member located exteriorly of said body member, said spring being also mounted in said body member between the top and bottom edges of the respective windows with a portion of said spring protruding through said windows, said spring extending through the central opening of said slide member and normally urging said slide member to a retracted position within said body member in which the lower end of said slide member is proximate to the neck portion of said body member, said spring being positioned to be compressed by said slide member when the latter is slid away from its retracted position.

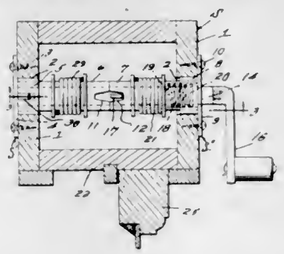
2,614,835
MECHANISM FOR RAISING AIRCRAFT HANGAR DOORS
Arthur Donald Margison and Adam Craigon, Toronto, Ontario, Canada, assignors to Margison & Babcock, Toronto, Ontario, Canada
Application May 6, 1949, Serial No. 91,734
7 Claims. (Cl. 268—58)

1. An upwardly movable closure mechanism for a large opening, comprising in combination: a door having three free edges and a bottom edge, a supporting member fastened to said door and projecting downwardly therefrom past the lower edge, a hydraulic ram connecting to said member for raising the latter to cause said door to close an opening, an air pressure chamber including piston means operatively connected to said door, means for creating an air pressure in said chamber sufficient to support said door in a position short of the closed position thereof, said door supporting member projecting below said door a distance greater than the depth of the door, guide means for said member defining the lower terminus of the door opening and spaced from said hydraulic ram a sufficient dis-



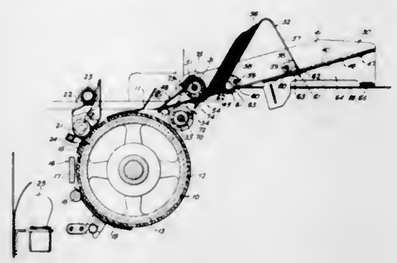
tance to accommodate the door when it is moved to a position whereat the upper free edge thereof is adjacent said guide means to provide a cantilever support for said door when it is moving for closure of said opening.

2,614,836
CLOSURE OPERATOR
Carl A. Williams, Los Angeles, Calif.
Application February 7, 1950, Serial No. 142,845
4 Claims. (Cl. 268—129)



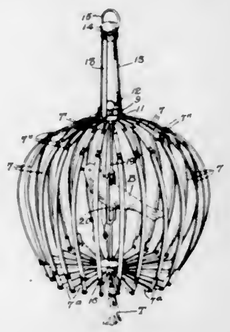
1. In an operating means for two members mounted for relative side-by-side endwise movements, a pair of spaced socket type bearings mounted at one side of said members, a pair of aligned sleeves supported at their outer ends in said bearings, a drum mounted on each of said sleeves for rotation therewith, a shaft extending inwardly of one of said bearings through the adjacent of the sleeves and partially through the other sleeve for sliding movements relative thereto, said sleeves having a pair of normally registering recesses opening through their opposed ends, a key carried by said shaft intermediate the ends thereof and movable into engagement with one or the other of said recesses when the shaft is moved endwise in alternate directions, flexible elements having intermediate portions wound on said drums and the end portions of each secured to one of said members, and a hand crank on the outer end of said shaft for imparting turning movements to the shaft when the said key is engaged with one or the other of said recesses whereby the members will be independently moved upon the rotation of a respective one of the drums.

2,614,837
DOCUMENT FEEDING DEVICE
William L. Cuthbert, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 21, 1949, Serial No. 134,245
3 Claims. (Cl. 271—39)



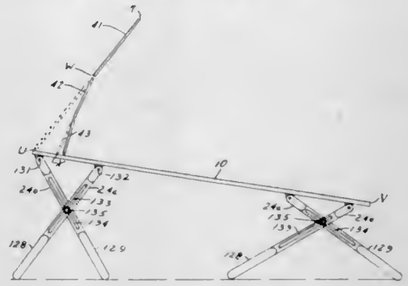
1. In a device for feeding discrete documents to a photographic apparatus, the combination comprising a plate member for supporting a stack of documents on edge, and plate member being arranged at an angle to the horizontal and having a parti-cylindrical depression in said plate extending transverse to the direction of sheet travel, located at the delivery end of said plate member and extending substantially the width of said plate member, a rotating member mounted on said plate member on an axis parallel to said depression and having a portion of the periphery thereof extending into said depression and for frictionally removing documents singly from said stack, and a follower retained on said plate member and movable therealong for maintaining said stack against said rotating member and at an angle to said plate member.

2,614,838
FOLDING BIRD CAGE FOR ENTERTAINERS
Merville A. Taylor, North Hollywood, Calif.
Application August 17, 1950, Serial No. 180,043
7 Claims. (Cl. 272—25)



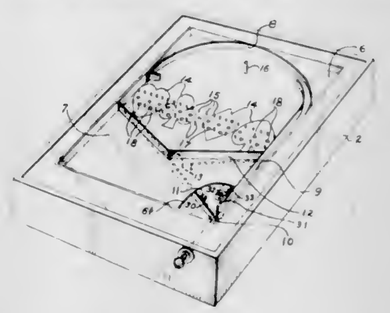
1. A folding bird cage of spherical form including spaced outwardly bulging body ribs, a head member to which the upper ends of said ribs are pivotally connected in closely spaced relationship, a lower member to which the lower ends of said ribs are pivotally connected in closely spaced relationship, a collapsing ring around one end of said body ribs and movable thereon toward the middle thereof to collapse said body ribs together in a compact elongated body.

2,614,839
BOUNCING BALL GAME APPARATUS
George H. Forsyth, Evanston, Ill.
Application September 19, 1945, Serial No. 617,329
3 Claims. (Cl. 273—30)



1. In a bouncing ball game apparatus, an elongated table providing an unobstructed playing surface and having the forward end thereof as a player position end, an abutment wall fixed to and projecting upwardly from the opposite end of said table and having a plane unobstructed ball rebounding surface inclined at an acute angle to the plane of an adjacent portion of said table, the relative length of said table and height of said abutment wall being such that a line extending from the player position end of the table to the upper edge of the abutment wall is normal to the adjacent plane portion thereof, whereby a ball impinging the abutment wall will always rebound to a position within the area of the table, said abutment wall also including another plane rebounding surface at an angle to said first plane surface and being so disposed relative to the table that a line extending from the upper edge thereof and normal thereto will also contact the forward player position end of the table.

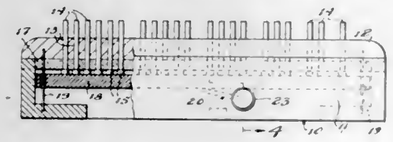
2,614,840
BALL GAME DEVICE
Omey M. Monkres, Long Beach, Calif., assignor of fifty per cent to Arthur Peter Smith, Long Beach, Calif.
Application November 6, 1947, Serial No. 784,364
8 Claims. (Cl. 273—121)



1. A game device of the character described comprising a target area, indicia thereon representing respective suits of playing cards, a plurality of circuit closers adjacent each of the indicia to represent respective cards of each suit and in position to be closed by a missile projected over the target area, and an annunciator including a plurality of sets of signalling devices corresponding respectively with the respective playing cards of the several suits and connected

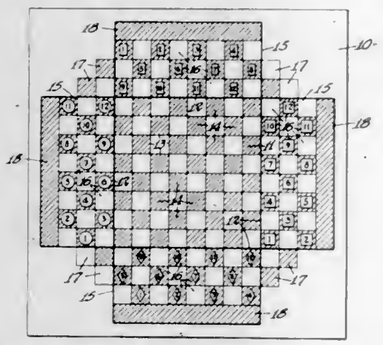
by electric circuits with the circuit closers to indicate thereon winning groups of cards upon closing of the corresponding circuits to the signalling devices.

2,614,841
PEG GAME BOARD
Bernard Joseph, Brooklyn, N. Y.
Application March 16, 1951, Serial No. 216,005
2 Claims. (Cl. 273—130)



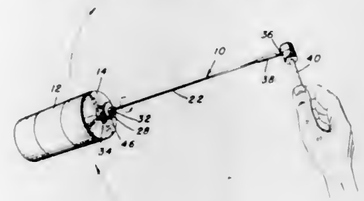
1. A peg game board comprising a housing having a series of peg receiving openings arranged in successive groups through its top, a series of pegs disposed within the housing to move vertically up and down in said openings, each peg normally having a portion projecting above the top of the housing and adapted to be depressed substantially to the level thereof in playing the game, an elevator supported within the housing in position to contact the feet of all the pegs in their depressed position, said elevator being movable upward to restore the pegs to their normal raised position after they have been depressed and to return downward to its initial position by gravity, and a lever contacting the lower face of the elevator for moving it upward.

2,614,842
CRUCIFORM CHECKERBOARD
John H. Rice, Minneapolis, Minn.
Application January 17, 1946, Serial No. 641,719
2 Claims. (Cl. 273—131)



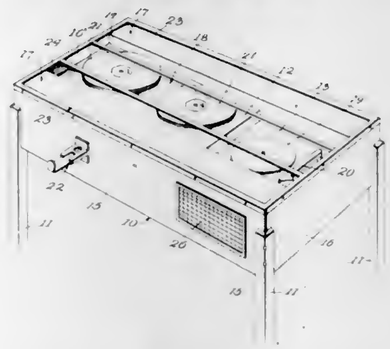
2. A game board comprising a surface marked to provide a square center area, a rectangular wing area extending from each side of said center area with one side coincident with a side of the center area, said center and wing areas being divided by intersecting lines to provide rows of checkered squares of substantially equal size, alternate squares of the respective rows being of different color, an undivided zone at the outer margin of each wing area extending the full length of said area and having a width corresponding to one side of said squares for a game wherein a playing piece is to be moved throughout the length of said outer zone into registration with any of the rows perpendicular to said elongated zone, said squares and zones constituting coplanar playing surfaces.

2,614,843
WHIRLING GAME DEVICE WITH MULTIPLE CYLINDER
Quan Wee, San Antonio, Tex.
Application August 25, 1949, Serial No. 112,296
1 Claim. (Cl. 273—141)



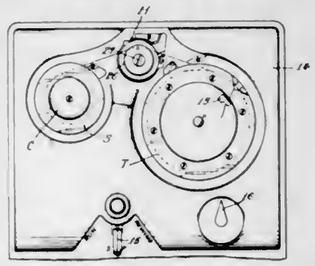
A toy comprising a hollow first cylinder having an end wall having an aperture therein, a horsehair line having one end extending through said aperture, a transverse keeper pin provided in said cylinder and having said one end of said line secured thereto, the other end of said line being formed in a loop, said loop engaging a handle, and a hollow second cylinder with an end wall having an aperture therein slidably and rotatably positioned between said handle and said first cylinder, said line passing through said aperture in the end wall of the second cylinder, indicia means on the end wall of the first cylinder dividing the same into suitable sectors, reference characters formed on said sectors, and an indicator on the end wall of the second cylinder for indicating a particular sector to determine a score, said second cylinder having a side wall provided with a plurality of circumferentially spaced apertures.

2,614,844
RECORD PLAYER
Jack Robinson, Washington, D. C., and Edgar Robinson, Richmond, Va.
Application August 9, 1946, Serial No. 689,434
4 Claims. (Cl. 274—2)



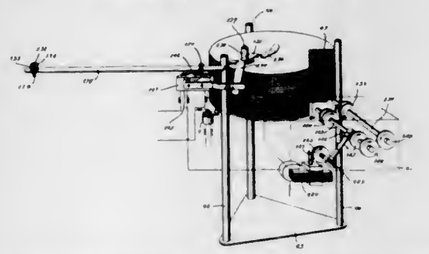
1. A record player cabinet to accessibly confine a plurality of sound disk records and a record driver to which any of the records may be manually applied for playing, the cabinet being for use in a public place where members of the public are permitted to selectively play any of the records but are prevented from removing any of them from the cabinet, said cabinet comprising a casing having an unobstructed bottom member on which a plurality of disk records may be directly and flat-wise supported adjacent a record driver to which records may be applied by hand, side members and end members, said bottom, side and end members all cooperating in forming an elongated upwardly open channel, said casing also including longitudinal top members projecting inwardly from said side members with the inner edges of the top members spaced apart sufficiently to give access by hand to records and said driver within said channel but insufficiently to permit removal of any confined record through the space between said members.

2,614,845
WIRE RECORDER
Colin B. Dale, Oak Park, Ill., assignor to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois
Application January 3, 1951, Serial No. 204,166
4 Claims. (Cl. 274—4)



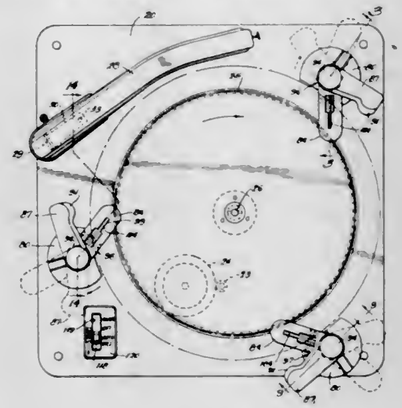
1. A wire recorder having motor-driven supply and take-up spools, and a grooved pick-up head provided with a rotatably mounted cap having a side wall surrounding the head, the side wall being provided with a guide slot wholly positioned on one side of the axis of rotation of the cap and extending parallel to the wire in its movement from spool to spool, a control handle regulating a driving connection between the motor and either spool, said handle having a "run" position and a "rewind" position, and a link connecting said cap and the control handle so that when said handle is moved to "run" position the guide slot is aligned with the groove in the head whereby a wire connecting said spools may be drawn through said groove, and when said handle is moved to "rewind" position the cap will be rotated to a position wherein the slot is misaligned with the groove to maintain the wire spaced from the groove in the pick-up head.

2,614,846
AUTOMATIC VOICE RECORDER
Robert M. Cain, Charlotte, Mich., assignor to Wilcox-Gay Corporation, Charlotte, Mich., a corporation of New York
Application March 16, 1949, Serial No. 81,751
35 Claims. (Cl. 274—10)



1. An automatic phonograph having a horizontal turntable and a horizontal record loading arm pivoted outside said turn-table; a record loading arm; means at the end of the arm remote from the point releasably engageable with a record disc; means for supporting a stack of records outside the turn-table; said arm being movable over said stack and toward said stack to engage the top record in said stack and over said turn-table and toward said turn-table to deposit the record on said turn-table; the center of the record stack and the center of the turn-table being equidistant from said pivot; the top record of the stack being at a predetermined position to be engaged by said record engaging means of said arm; a platform for supporting said stack; means for raising said platform; said last-mentioned means being electrically operated; switch means controlled by the height of the top record in the stack for energizing said platform raising means; and additional switch means responsive to the absence of records on the platform for de-energizing said platform raising means; switch means responsive to operation of another portion of said automatic phonograph to de-energize said platform raising means.

2,614,847
AUTOMATIC PHONOGRAPH
Carl G. Johnson, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois
Application February 9, 1945, Serial No. 576,931
3 Claims. (Cl. 274—10)



1. In an automatic record changer, in combination, a turntable, a record dropping escapement adapted to support a stack of records above said turntable, cam means for actuating said escapement to release the lowermost of the stack of records, an operator normally connected to said escapement to be actuated thereby, means engaged by a record on said escapement for disconnecting said operator from said escapement, a switch controlling the operation of the phonograph, a switch control member adapted when actuated to open said switch, a second movable member adapted to be actuated by said cam means near the end of its cycle, a third movable member arranged to communicate movement from the second movable member to the switch control member, a latch normally holding the third movable member in inoperative relation to the switch control and second movable members, said operator being arranged, when operated, to move the latch to unlatching position whereby the third movable member is actuated by the second movable member to move

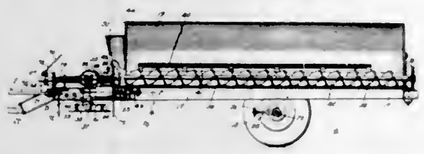
the first movable member to switch opening position near the end of a cycle of said cam means when no record is dropped from the escapement.

2,614,848
PHONOGRAPH NEEDLE
Wesley E. Kidd and Robert L. Metzenberg, Chicago, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application October 6, 1947, Serial No. 778,102
2 Claims. (Cl. 274—38)



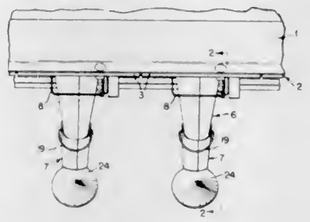
1. A phonograph needle comprising, a principal shaft tapering progressively smaller from a securement shank portion diameter to a sensing point portion diameter, said sensing point portion and sank portion being in parallel alignment but in different planes, an intermediate portion of said shaft having substantially identical angularity with said shank portion and with said point portion, and a series of substantially parallel damping vanes integral with and perpendicular to the axial center of said intermediate portion.

2,614,849
DISTRIBUTOR FOR LOOSE MATERIAL
James H. Holben, Lake Wales, Fla.
Application July 26, 1948, Serial No. 40,774
8 Claims. (Cl. 275—8)



1. In a trailer including ground wheels, said trailer being adapted to be drawn by a tractor including a power take-off shaft, and wherein said trailer includes a hopper for loose material; the improvement comprising a material distributing fan in adjacent relation to said hopper and mounted between the trailer and the tractor, means operatively connecting said fan to said power take-off shaft, said hopper being formed with a pair of discharge openings therein, a pair of driven conveyors for feeding material to opposite sides of said fan for distribution thereby in opposite directions, said driven conveyors positioned below the discharging openings and above the fan, a lump breaker comprising a rotatable blade spaced rearwardly of and in alignment with the hopper discharge openings, means mounting said blade in said hopper in the region of said discharge openings for said hopper, and means including differential gearing directly driven by said power take-off to drive said blade to rotate the latter.

2,614,850
FERTILIZER DISTRIBUTOR
William A. Hyland and Royce R. Borngraeber, Horicon, Wis., assignors to John Deere Van Brunt Company, Horicon, Wis., a corporation of Wisconsin
Application February 25, 1950, Serial No. 146,358
1 Claim. (Cl. 275—14)

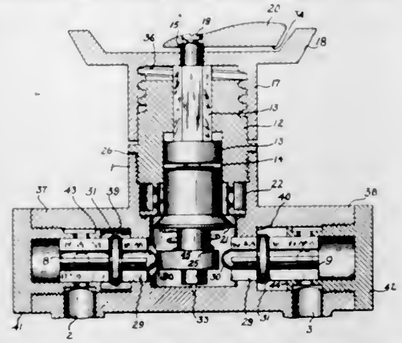


In a fertilizer distributor of the type including a hopper carrying distributing means including a substantially vertically disposed, generally tubular upper spout fixed to the bottom of the hopper, a substantially vertically disposed, generally tubular lower spout section, means pivotally connecting the upper end of said lower spout section to the lower end of said upper spout for movement relative to the latter about a generally transverse axis, a scatterer plate comprising a disk-like part appreciably larger diametrically than the lower end of said lower spout section, and means fixing the forward edge portion of said part to said lower spout section at the forward side thereof so that said plate lies below the lower end of said spout section and with an appreciably greater portion of the weight of said scatterer plate disposed rearwardly of the vertical plane passing transversely through said axis and substantially containing the axis of said lower spout section, whereby the lower spout section with said scatterer plate attached thereto is overbalanced so as to swing forwardly until the forward portion of said spout section at the upper end thereof engages the forward wall of said upper spout, said lower spout section and scatterer plate being free to swing rearwardly in the event they encounter an obstruction or the like during forward travel.

2,614,851
MIXING VALVE
Frank H. Parker, Cleveland Heights, Ohio, assignor of one-half to Stephen C. Peplin, doing business as Lakewood Manufacturing Co., Westlake, Ohio
Application June 15, 1949, Serial No. 99,145
4 Claims. (Cl. 277—18)

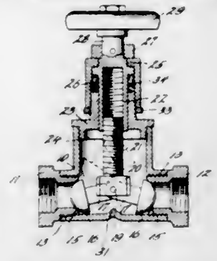
1. In a faucet having a casing, a mixing chamber and a discharge chamber communicating therewith, a pair of fluid pressure lines leading to said mixing chamber and a common outlet from said discharge chamber, a pair of auxiliary valves, one between each of said pressure lines and said mixing chamber and a main valve between said mixing chamber and discharge chamber, a pair of independently manually operable controls, one for operating said pair of auxiliary valves for regulating the proportion of fluid flow from said lines into said mixing chamber and

the other manual control for operating said main valve to control the volume of discharge outlet fluid flow, said manual controls comprising rotatable handles adjacently arranged for reciprocably adjusting said main valve and a rotatable stem arranged concentrically of the stem of said main valve and operated by the other handle for reciprocably adjusting said auxiliary valves, the



stem for operating said auxiliary valves including a rotatable cam adapted to engage both of said auxiliary valves to simultaneously open said valves in differing degrees, resilient means interposed between said cam and said main valve for urging said main valve toward closed position and said cam into engagement with said auxiliary valves.

2,614,852
VALVE
Robert H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application June 11, 1945, Serial No. 598,681
6 Claims. (Cl. 277—33)

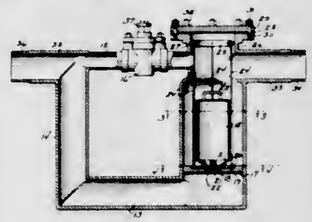


1. A high pressure valve comprising a valve body having a port, a valve seat for the port, a valve movable toward and from said seat, rotatable valve operating means, a flanged thrust cap rotatably and vertically movable on said valve body, a circumferential flange on said valve operating means to engage the flange on said thrust cap, a ring on said valve operating means above the flange of said thrust cap to prevent vertical movement of said cap relative to said valve operating means, and a nut adjustably mounted on the valve body below said thrust cap and arranged to abut and to limit vertical downward movement of said cap.

2,614,853
ARRESTER TRAP FLOAT VALVE
Robert M. Manning, Pampa, Tex.
Application November 9, 1949, Serial No. 126,387
2 Claims. (Cl. 277—54)

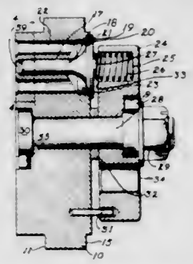
1. In a pipe line arrestor trap, the combination which comprises a pipe line having a gap

therein with a U-shaped section having a base positioned in a plane parallel to and spaced below the pipe line and vertically disposed legs which connect the ends of the base to inlet and discharge portions of the pipe line on opposite sides of said gap, the vertically disposed leg connecting the base to the discharge side of the pipe line providing an arrestor tube and the internal area of said vertically disposed leg forming the arrestor tube and also of the base being equal to that of the pipe line, the area of the vertically disposed leg of the U-shaped section connecting the base to the intake side of the pipe line being greater than that of the pipe line and said leg having a horizontally disposed partition with a centrally positioned opening therein spaced from the lower end, said



partition having an annular recess in the upper surface, a lower annular ring positioned in said recess of the partition, an upper annular ring positioned in an upwardly extended section of said vertically disposed leg and aligned with the annular ring in the recess of the partition, spaced vertically disposed rods connecting the annular rings providing a valve guide, an elongated hollow cylindrical float positioned in said valve guide, a valve carried by the lower end of the float and positioned to seat over the centrally positioned opening of the partition, a by-pass connection extended across said trap connecting the pipe line on the intake side of the gap to the pipe line on the discharge side of the gap, and a valve in said by-pass connection.

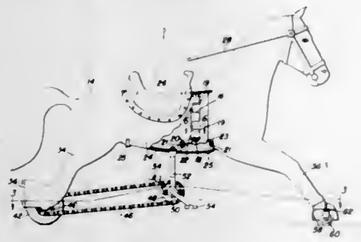
2,614,854
COMPRESSOR VALVE
Edwin D. Watson, South Gate, Calif., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application November 26, 1945, Serial No. 630,746
2 Claims. (Cl. 277—60)



1. A valve assembly comprising a block adapted to be inserted in a housing, said block having a central axial bore therethrough and a plurality of spaced axial passages extending through said block and grouped around said bore, each of said passages having a frusto-conical valve seat at one end thereof and having an insert therein, said insert having a plurality of open portions

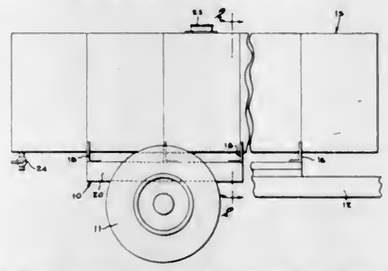
cooperating with said passage to form flow passageways and also having a central cylindrical valve guide, a valve associated with each of said passages and inserts, each of said valves including a stem slidably guided in said valve guide and a head having a frusto-conical seating face engageable with said valve seat, a mounting bolt extending through said axial bore beyond the end of said block having said valve seats thereon, a retainer member mounted on the projection end of said bolt, a nut on said bolt securing said retainer to said block, said retainer having a plurality of recesses therein opening toward and in axial alignment with said valves, springs seated within said recesses and engaging said valve heads, the inner surface of said retainer forming stop means for said valves limiting travel thereof, and a spacer on said bolt interposed between said block and retainer and cooperating with said retainer to position the same with respect to said conical valve seats, the thickness of said spacer being predetermined to position the retainer to limit the travel of the valves the amount necessary to accommodate the required flow through said passages, each of said spring means being so constructed and arranged that when cooperating with a spacer of a thickness wherein the retainer is positioned to limit the travel of the valve heads to the minimum amount necessary for full fluid flow through the passages, the force applied to said valve heads in a closing direction is less than that applied by the pressure acting on said valve heads in an opening direction.

2,614,855
ANIMAL SIMULATING VELOCIPEDE
Francis B. Lolmaugh, Plymouth, Ind.
Application July 28, 1950, Serial No. 176,470
1 Claim. (Cl. 280—1.203)



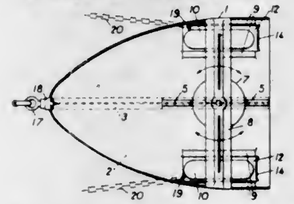
In a velocipede, the combination of an elongated body comprising a front section including a forwardly projecting head and a pair of transversely spaced and forwardly projecting front legs, a rear section including a pair of transversely spaced and rearwardly projecting rear legs, a vertical hinge connecting the front and rear sections together and having its axis disposed substantially midway between the extremities of the front and rear legs, a transverse axle secured to the rear legs, a pair of transversely spaced wheels mounted on said axle, a pair of casters having vertical pivots in the respective front legs and providing rolling supports for the front body section when it is swung laterally relative to the rear body section about the axis of said vertical hinge, and a substantially U-shaped rigid steering yoke secured at the ends thereof to opposite sides of said head and extending rearwardly therefrom, the bight portion of said yoke being disposed adjacent the vertical axis of said hinge whereby the front body section may be swung about said hinge with minimum of movement of the bight portion of said yoke.

2,614,856
INSULATED TANK VEHICLE
Frank A. Beyer, Ralph A. Bradley, and Harry W. Crank, Springfield, Mo., assignors, by mesne assignments, to Trailmobile Inc., a corporation of Delaware
Application May 4, 1950, Serial No. 159,966
7 Claims. (Cl. 280—5)



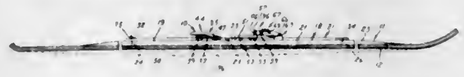
1. A heat insulated tank for the temporary storage of liquids comprising, an inner metal tank shell adapted to contain the stored liquid, a plurality of metal spacer members secured to the outer surface of the inner shell, an outer metal tank shell enclosing the inner shell, the outer shell being secured to the said spacer members and maintained thereby in spaced relationship with the inner shell, heat insulating material interposed between the spaced inner and outer shells adapted to provide a barrier to the interchange of heat between the spaced shells, the metallic spacer members each including a heat insulating section comprising, a transverse flange, a heat insulating sheet surrounding said flange, and a metal sheath enclosing the heat insulating sheet, the heat insulating section being interposed in the said metal spacer members to provide a barrier to the direct transfer of heat through the spacer members with respect to the spaced metal tank shells.

2,614,857
VEHICLE
Arne Lars Mathisen, Sandvika, Norway
Application October 17, 1950, Serial No. 190,554
In Norway October 18, 1949
4 Claims. (Cl. 280—8)



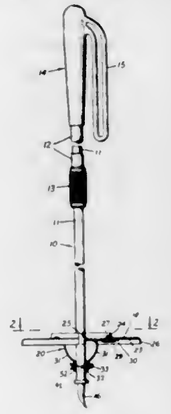
1. A land vehicle comprising a body made of sheet material and having bottom and side portions so formed and inter-connected as to provide a structure similar to the bow portion of a boat, a longitudinal sleigh runner secured to the underside of the bottom portion and extending centrally throughout the length of the body, and means for detachably mounting a wheel shaft at the inner side of each of the said side portions, an aperture being provided in the said bottom portion adjacent to each of the said side portions permitting a wheel mounted on the said wheel shaft to protrude downwardly through the said aperture to such an extent that the lowermost point of such wheel is below the bottom of the said sleigh runner.

2,614,858
SKI BINDING
Wayne M. Pierce, Jr., Milford, Conn., assignor to Tey Manufacturing Corporation, Milford, Conn., a corporation of Connecticut
Application April 17, 1948, Serial No. 21,677
16 Claims. (Cl. 280—11.35)



1. In a ski binding, an elongated base, a heel clamp fixed on said base, a toe clamp, means mounting said toe clamp on said base for sliding movement toward and from said heel clamp, means for sliding said toe clamp toward said heel clamp to secure a ski boot to said binding and for sliding said toe clamp in the opposite direction to release a ski boot from said binding, said means comprising a pivoted lever and means whereby said lever is moved through a dead-center to each of said clamping and released positions, and spring means between said lever and said toe clamp whereby the latter is only yieldingly secured in said clamping position.

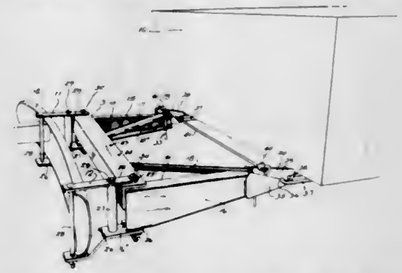
2,614,859
SKI POLE HANDLE
Marino N. Harocopo, New York, N. Y., assignor to Skiaffiliates, Inc., New York, N. Y.
Application January 16, 1948, Serial No. 2,700
4 Claims. (Cl. 280—11.37)



1. A handle adapted for use on a ski pole or the like including a wrist strap formed integrally with the handle from a resilient molded material, the handle being hollow and having an outer wall of a thickness increasing from one end up to a point intermediate the two ends of the handle and having an area of maximum wall thickness adjacent the other end and the strap branching from the said handle substantially at the area of the said maximum wall thickness.

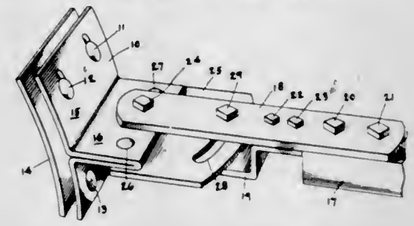
2,614,860
AUTOMOTIVE TRAILER HITCH
Russell H. Samdahl, Black River Falls, Wis.
Application June 7, 1949, Serial No. 97,600
5 Claims. (Cl. 280—33.14)

2. A hitch for a vehicle having a bumper horizontally disposed across the vehicle and including a beam to provide a protected zone parallel to the bumper spaced apertured swingable draft bars attached to the beam at spaced points and provided with apertured braces extending to the bars and provided with swingable attachment to the beam; brace pins manually receivable in the apertures to lock the braces to the bars; latches having tow keepers and secured to the draft bars in tow receiving position when the



braces are locked by said pins, each latch being apertured to receive a lock rod in position to lock the latch keeper in tow holding position; and a lock rod receivable in said apertures and thereby positioned over said brace pins whereby simultaneously to lock said latch keepers and said pins in tow holding and in bracing positions respectively.

2,614,861
TRAILER HITCH
Perry E. Van Horn, Grand Rapids, Mich.
Application August 1, 1949, Serial No. 107,921
2 Claims. (Cl. 280—33.15)

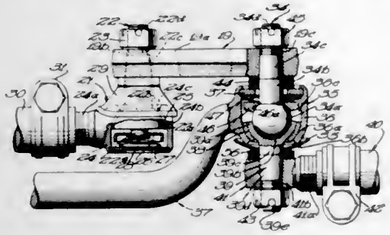


2. A trailer hitch, comprising: first and second coupling means; means forming a principal hinge joining said first and second coupling means; an auxiliary coupling plate having arcuate slots concentric with the axis of said hinge; and first and second means connecting said plate to said first and second coupling means, respectively, at said slots, at least one of said connecting means including a bolt supported on said respective coupling means on opposite sides of said plate, said plate being adapted to engage said first and second connecting means at the sides of said slots to transfer load therebetween on shearing of said principal hinge.

2,614,862
STEERING LINKAGE
Marshall H. Alldredge, Detroit, and Matthew P. Graham, Grosse Pointe, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application September 21, 1949, Serial No. 116,957
4 Claims. (Cl. 280—95)

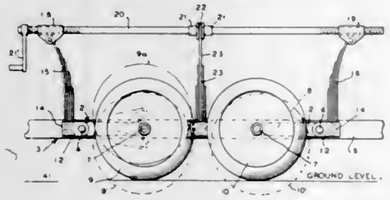
1. A steering linkage for dirigible vehicles comprising a frame, independently suspended steerable wheels mounted on said frame, arms for steering said wheels, tie rods connected to said arms, a steering mechanism mounted on said frame, a pitman arm actuated by said steering

mechanism, a drag link connected to said pitman arm, a pivot arm mounted on said frame, a pair of joints on the free end of said pivot arm, one of said joints being connected to one of said tie rods and the other of said joints being tiltably and rotatably connected to the other of said tie



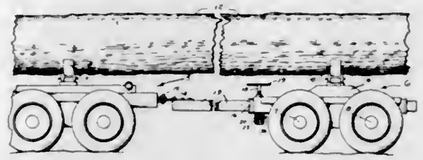
rods and to the drag link, said other joint having a common tilting center for the tie rod and the drag link, whereby steering movement imparted by the pitman arm is transmitted through the drag link and through said pivot arm to both tie rods for actuating the steering arms without loss of steering movement or mechanical advantage irrespective of the relative levels of the wheels.

2,614,863
SPRING SUSPENSION FOR VEHICLES
Arthur G. Schramm, Phoenix, Ariz.
Application July 28, 1951, Serial No. 239,082
2 Claims. (Cl. 280—104.5)



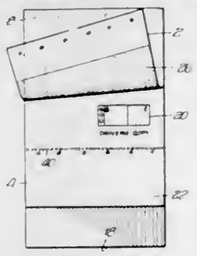
1. A spring suspension for a pair of tandem wheels, adapted to be attached to the side members of a vehicle frame composed of a forward normally horizontal wheel arm pivotally attached to a side member of said frame intermediate of its length so that one end is longer than the other from said point of attachment; a wheel spindle shaft extending laterally outward relative to the frame, from the end portion of the longer end of said arm; a spring mounted in a spring box in the end portion of the shorter end of said arm extending normally upward, and having a shackle block pivotally attached to its upper end; a rear, normally horizontal wheel arm pivotally attached to said side member of said frame intermediate of its length so that one end is longer from said point of attachment than the other; a wheel spindle shaft attached to and extending laterally outward from the end portion of the longer end of said wheel arm; a spring attached to and extending normally upward from the shorter end of said wheel arm, having a shackle block pivotally attached to its upper end; wheels on each of said spindle shafts; and a manually rotatable horizontal linking bar threaded at one end into the shackle block on the spring of the forward wheel arm, and threaded at the other end, into the shackle block on the spring of the rear wheel arm with a thread of reverse pitch; said wheel arms being arranged so that the longer end of the forward arm extends rearwardly and longer end of the rear wheel arm extends forwardly so that said wheels will be closely adjacent, and said springs will be beyond the wheels at each end of each wheel arm.

2,614,864
HYDRAULIC REACH TIGHTENER
Fremond F. Bean, Grand Ronde, Oreg.
Application May 26, 1951, Serial No. 228,520
4 Claims. (Cl. 280—142)



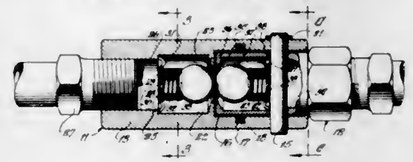
1. In combination, an elongated hollow box frame having a longitudinal tunnel therethrough, an elongated reach slidably carried within said tunnel, said reach being of complementary contour to said tunnel, a hollow protective housing pendent from the bottom of said box frame and having one side thereof open, a guideway open to both said tunnel and housing, a hydraulic jack carried within said housing and having a vertically movable gripping head upon the upper end thereof, said gripping head being slidably received within said guideway for vertical movement upwardly into frictional holding contact with said reach, and a flat slide member carried by said housing and underlying said jack to space the same from the bottom of said housing.

2,614,865
MANIFOLD SET
Alexander G. Shennan, Oak Park, Ill., assignor to International Tag & Salesbook Company, Chicago, Ill., a corporation of Illinois
Application May 12, 1951, Serial No. 225,983
5 Claims. (Cl. 282—22)



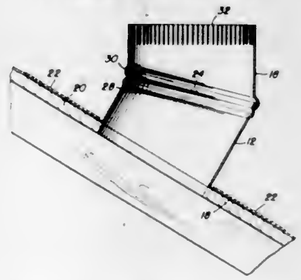
1. A manifold set comprising a plurality of superposed sheets separably secured together adjacent one of the marginal edges thereof, said sheets being of different lengths with each underlying sheet being longer than the next adjacent overlying sheet, whereby the marginal edges opposite said first named marginal edges are offset with respect to one another, adhesive material adjacent the second named marginal edge for readily detachably securing certain of said sheets to the next adjacent sheet in spaced parallel relation to said second named marginal edge to provide an area adjacent thereto adapted to be grasped to successively remove sheets from the set, each of said underlying sheets secured to the next adjacent overlying sheet being provided with indentations disposed inwardly of said adhesive material to permit removal of each successive top sheet from the set without pulling the surface of the underlying sheet beyond said indentations away with said adhesive material, and transfer means for reproducing recorded data applied to certain sheets onto the sheets below.

2,614,866
HYDRAULIC COUPLER VALVE CONSTRUCTION
Raymond M. Ulrich, Roanoke, Ill., assignor to Ulrich Foundation, Inc., a corporation of Delaware
Application August 10, 1950, Serial No. 178,644
2 Claims. (Cl. 284—18)



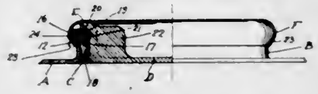
1. A separable cylindrical hydraulic coupling having male and female members each having a passage provided with a shoulder and a valve seat, a closure ball for each seat, a support having a plurality of radially extending curved resilient legs engaging said shoulder, a spring mounted between said support and said ball, and a stop sleeve surrounding a portion of said spring, said ball closures being limited in their movements and held in axial alignment in engagement with each other by said sleeves when said members are coupled together.

2,614,867
ROOF JACK
Samuel W. Artis, Jr., Boise, Idaho
Application September 23, 1949, Serial No. 117,429
1 Claim. (Cl. 285—31)



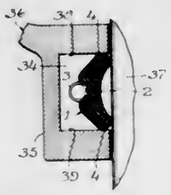
An adjustable roof jack comprising a flat mounting plate provided with a circular opening, a cylindrical bottom member connected at its lower edge to said plate at the edge of said opening and having its axis disposed perpendicularly to the plate, the upper edge of said bottom member being disposed in a plane located at an acute angle relative to the mounting plate, said bottom member being adapted to receive and frictionally sustain an end portion of a pipe therein, and a tubular top member having upper and lower edges thereof disposed in planes having an acute angle therebetween, the lower edge of said top member being rotatably connected to the upper edge of said bottom member whereby the top member may be adjusted to a vertical axis, said top member being of such diameter as to frictionally fit inside an end portion of another pipe, whereby the roof jack may provide angularly adjustable connecting means between two pipe sections.

2,614,868
CONTAINER CLOSURE
Joseph Robinson, New York, N. Y.
Application October 4, 1946, Serial No. 701,171
6 Claims. (Cl. 285—49)



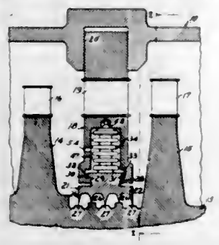
1. A closure receiving mouth for a metal container comprising in combination a container wall having an opening therein defined by an outwardly extending cylindrical housing, a ring-like insert disposed in said housing with its bottom edge adjacent the lower portion thereof and its exterior surface in engagement therewith, said insert having an internally threaded base and a non-threaded anchor portion, the anchor portion of said insert being arranged above said threaded base and having a wall thickness less than the wall thickness of said base and generally comparable with the wall thickness of the housing, the outer extremity of said housing being turned downward over the anchor portion of the insert to form a U-shaped section at the outer extremity of the housing, the U-shaped section of the housing and the anchor portion of the insert being flared outward simultaneously relative to the internally threaded base of the insert to positively lock said insert against vertical movement in the housing and to form an upwardly facing generally cone shaped seat for a gasket.

2,614,869
SPRING-ACTUATED SHAFT SEAL
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application November 1, 1946, Serial No. 707,070
1 Claim. (Cl. 286—5)



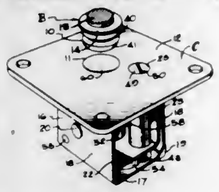
A seal assembly for sealing the space between a shaft and a housing in which said shaft extends, comprising an annular channel having side walls associated with said housing and opening inwardly toward said shaft, a freely mounted resilient seal of crescent-shape in annular cross-section adapted to be received within said channel and encompassing the shaft, said seal comprising a continuous, integral sealing element having spaced rounded sealing lips at its end portions and a pair of oppositely facing inner and outer intermediate circular grooves, said sealing element being initially of greater width than the width of said channel whereby the sealing element is further arched when mounted in position in said channel, the inner groove being of greater cross section than said outer groove, and a contractile spring mounted in said outer groove portion for exerting a force upon said sealing element for pressing the sealing lips into contact with said shaft and the opposite side walls of said channel, with the remainder of the sealing element being free of said annular channel.

2,614,870
TURBINE DIAPHRAGM
James L. Ray, Long Beach, Calif., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application October 31, 1946, Serial No. 706,935
14 Claims. (Cl. 286—10)



4. Means providing a diaphragm for the space between the rotor shaft and an annular wall surrounding said rotor shaft of a turbine constructed and arranged for operation by elastic fluid, said diaphragm means including relatively radially movable parts, and means for yieldingly biasing said parts radially away from each other comprising hermetically sealed receptacle means containing elastic fluid, reacting oppositely radially toward said parts.

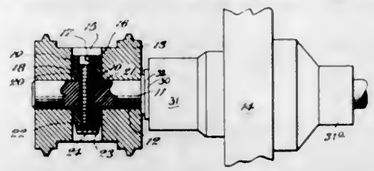
2,614,871
ANCHOR FOR CARGO TIE-DOWN DEVICES
Earle D. Grizzard and Frank R. Collar, Los Angeles, and Jack C. Mitchell, La Crescenta, Calif., assignors to Adams Rite Manufacturing Company, Glendale, Calif., a corporation of California
Application June 30, 1951, Serial No. 234,562
12 Claims. (Cl. 287—20.5)



1. In a detachable connector for a shouldered connector body: a frame having a front wall with a first opening therein to receive said shouldered body, and having a second opening disposed to one side of said first opening; hinge means carried by said frame in spaced relation and parallel to said wall; lever means mounted on said hinge means so as to swing toward and away from the axis of said first opening, said lever means being shouldered so as to engage said shouldered connector body when it is inserted in said first opening; and means operative through said second opening to move said lever means toward said axis of said first opening.

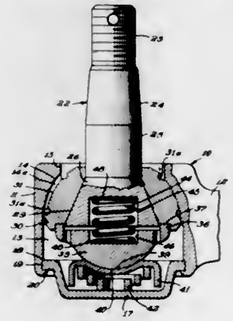
2,614,872
SPROCKET FASTENING MEANS
Henry F. Heidegger, Glen Ridge, N. J., and Willy Borberg, Astoria, N. Y., assignors to International Projector Corporation, Bloomfield, N. J., a corporation of Delaware
Application March 8, 1949, Serial No. 80,226
8 Claims. (Cl. 287—52.08)

1. The combination with a rotary shaft, and an element having an axial bore to accommodate the shaft for rotation thereby; of means to key said element to the shaft in such manner as to relieve the shaft of unbalanced radial stress and retain the element on the shaft, comprising a headed and threaded fastening means; said element having an unthreaded passage of substantially uniform diameter formed diametrically therethrough to intersect the axial bore; said shaft having a hole diametrically therethrough of less diameter than the passage and with which



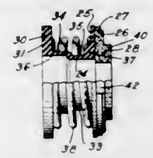
the passage through the element is aligned a portion of the fastening means extending within the unthreaded passage in said element and the aligned hole through the shaft; and a retaining device engaged by the threaded end of the fastening means; the head of the fastening means and the retaining device lying in the opposite ends of the passage, respectively, and effective to clamp the shaft between them at diametrically opposite points, and to serve as a key to transmit rotary motion from the shaft to the element.

2,614,873
BALL JOINT
James H. Booth, Venice, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application October 30, 1948, Serial No. 57,439
5 Claims. (Cl. 287—90)



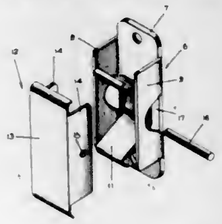
2. A joint structure comprising a housing having a central cavity with an aperture at one end thereof and an inner bearing surface, a bearing ring disposed in said cavity and having an outer bearing surface, a rigid pressure transmitting member engaging said ring, a first spring acting on said member and urging the outer bearing surface of said ring into bearing engagement with the bearing surface of said housing, said bearing ring having a central cavity defining an inner bearing surface, a stud projecting into said housing and having a head portion with a bearing surface, a second spring urging said bearing surface of the stud against the inner bearing surface of said bearing ring, said springs being arranged in tandem with said first spring being more heavily loaded and acting as a support for said second spring, whereby the mating bearing surfaces of said housing and said bearing ring are subjected to a greater spring loading than the mating bearing surface of said bearing ring and said stud.

2,614,874
FLUID SEAL
Fred A. Helfrecht, Redwood City, Calif., assignor to National Motor Bearing Co., Inc., Redwood City, Calif., a corporation of California
Application May 18, 1948, Serial No. 27,740
1 Claim. (Cl. 288—2)



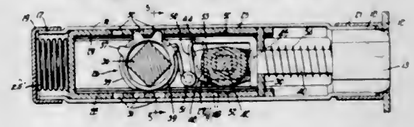
A self-contained face seal having in the combination an annular member of a rigid material having a smooth outer face adapted to seal against the radial surface of an abutting part; a molded body portion U-shaped in cross-section, having one radial flange recessed to receive said annular member, having its opposite radial flange with a radial outer face adapted to seal against the radial surface of a part spaced from the first named abutting part, and having a connecting tubular membrane of larger diameter than a shaft extending through it with the portion of its axial wall adjacent said opposite flange enlarged in relation to the balance of the axial wall so that the outside diameter of the latter wall is substantially the same size as the inside diameter of the larger part of the wall, said recessed radial flange and the membrane connected to it having a web extending between them to add support to the membrane when it is collapsed axially; and a spring surrounding said tubular membrane and having its ends in engagement with the flange behind said annular member and with said radial flange.

2,614,875
SLIDING WINDOW SASH HOLDER
Harry Schwartzmann, New York, N. Y.
Application August 2, 1949, Serial No. 108,137
6 Claims. (Cl. 292—74)



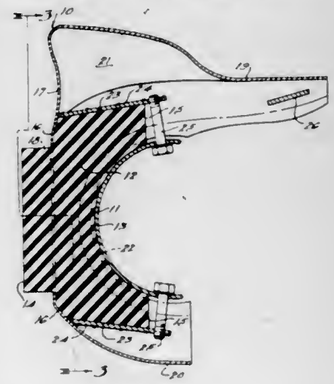
1. A device for holding a vertically sliding window sash member in predetermined adjusted positions relatively to a fixed window frame member comprising a shoe for engaging frictionally with one of the members when the sash member slides in the frame member, projections laterally extending from the shoe, an elongated channel-shaped base adapted to be mounted lengthwise in the other member with its bottom affixed thereto and having an opening in each of its side walls receiving one of said projections, each opening being defined by a marginal cam edge having at its mid point a portion spaced farthest from said bottom and having portions diverging therefrom upwardly and downwardly toward the ends of the channel and inwardly toward the bottom thereof so that the shoe is held captive on the base with freedom for limited movement toward and away from said bottom and lengthwise thereof, and a spring mounted in compression directly between the bottom and the shoe for urging the shoe yieldably outwardly from the bottom, whereby said cam edge cooperates with said projections for forcing the shoe inwardly against the tension of said spring and toward the base bottom when the shoe is moved lengthwise relatively to the base in response to movement of the sash member either upwardly or downwardly in the frame member.

2,614,876
LATCH
Frank McConnell, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut
Application May 17, 1947, Serial No. 748,703
12 Claims. (Cl. 292—172)



1. In a device of the character indicated, bolt means, a longitudinally slidable carriage member having two sides and connected with lost motion to said bolt means, dogging means engageable with each of said two sides in a first position and free from said two sides in a second position, and snap-action detent means cooperating with said dogging means to provide detent-retention of one of said positions.

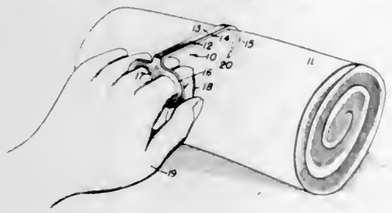
2,614,877
BUMPER GUARD
Souren Benian, Detroit, Mich.
Application October 17, 1951, Serial No. 251,747
7 Claims. (Cl. 293—66)



4. In a bumper guard for a vehicle bumper, a rubber-like shock transmitting body having a shock receiving projection of substantially the vertical width of said bumper and extending longitudinally outward from the outer end of said body, said body also having at its inner end a bumper abutting surface opposite said projection and conforming closely to the outer surface of the bumper to transmit shocks directly thereto received by said projection, said body extending vertically above and below said projection and surface to provide outer and inner shoulders above and below the projection at its juncture with the body and also above and below said bumper abutting surface, a rigid hollow housing

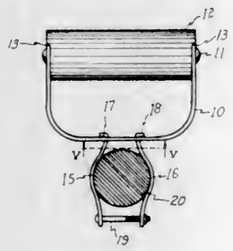
for said body extending above and below the latter, the housing having an outer surface closely sheathing said outer shoulders and extending above and below the latter and also having an opening through which the projection extends, the housing also having side portions closely sheathing the sides of the body in laterally supporting relation and terminating inward in spaced relation to the bumper to avoid contact therewith, upper and lower rigid sheathing plates secured within the housing and closely sheathing the body above and below the latter respectively in supporting relation, the upper and lower sheathing plates extending longitudinally inward beyond said upper and lower shoulders, and means securing the inner ends of the inward extending sheathing plates to said bumper.

2,614,878
FINGER HOOK
Herbert C. Ziemke, Racine, Wis.
Application July 20, 1949, Serial No. 105,736
1 Claim. (Cl. 294—16)



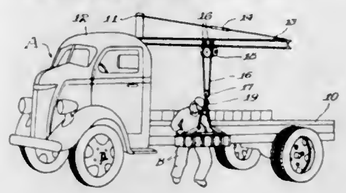
A finger hook formed from a single sheet of metal and including a flat shank of substantial width, a downwardly and rearwardly curved, tapered hook terminating in a point on one end of the shank, and a transversely elongated plate-like handle depending from the other end of said shank at right angles thereto, said handle having a plurality of transversely aligned finger receiving openings therein.

2,614,879
DETACHABLE HANDLE FOR SHOVELS OR THE LIKE
Steven J. Citso, Chicago, Ill.
Application October 24, 1947, Serial No. 781,969
1 Claim. (Cl. 294—58)



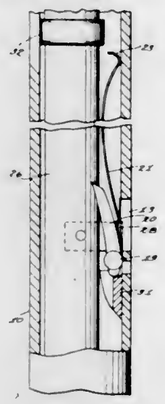
In an auxiliary grippable handle adapted to be attached to intermediate portions of shovels or the like; a substantially U-shaped metal yoke, said yoke having a pair of spaced slots in its intermediate portion; a grip secured between the opposite ends of said yoke; a pair of clamping members each having a hook at the inner end thereof, said hooks each engaging one of said slots, said clamping members being substantially uniformly spaced from each other and throughout their entire lengths; and a releasable bolt normally connecting the outer ends of said clamping members together and about a shovel handle or the like.

2,614,880
METHOD AND APPARATUS FOR LIFTING CONCRETE PRODUCTS
Hubert C. Berchem, Jr., White Bear, Minn., and Harold F. Pierce, Detroit, Mich.
Application October 29, 1948, Serial No. 57,214
6 Claims. (Cl. 294—62)



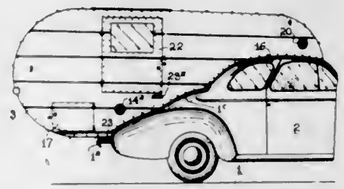
1. A block lifting device comprising a pair of elongated frame members, a pair of L-shaped levers pivotally mounted therebetween, a pair of spaced arms connecting said frame members and projecting substantially perpendicularly therefrom, handle means connecting the forward ends of said arms, and downwardly extending gripping ends on said pivotally supported levers.

2,614,881
WELL FISHING TOOL
Jacob A. Holland, Brady, Tex.; Lena Allatha Holland administratrix of said Jacob A. Holland, deceased
Application May 12, 1950, Serial No. 161,503
2 Claims. (Cl. 294—86)



1. A well fishing tool comprising an elongated tubular housing having an upper end and a lower end with its lower end internally flared and having intermediate its length an opening providing at its lower end a straight edge extending transversely of the housing, said housing also having therein two rounded notches disposed one at each end of said straight edge and below the latter in communication with said opening, a structure disposed in said housing and comprising a pin portion rotatably received at its respectively opposite ends in said notches, a tongue portion extending upwardly from said pin portion and having a sharpened edge at its end remote from said pin portion, and a flat spring secured at one end to said tongue portion and bearing at its other end against the interior of said housing above said opening, retaining plates disposed within said housing and extending through said opening at respectively opposite sides of the latter and over the corresponding ends of said pin portion to retain said pin portion in said notches, and a bail secured to and projecting from the upper end of said housing.

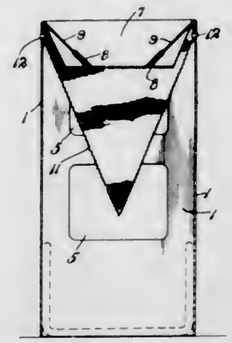
2,614,882
SELF-PROPELLED VEHICLE HAVING SUPERIMPOSED NONCOLLAPSIBLE OCCUPANT COMPARTMENT
Harvey A. Cook, University Heights, Ohio
Application June 30, 1948, Serial No. 36,012
8 Claims. (Cl. 296—23)



1. A rigid auxiliary compartment structure for superposition on and readily demountable attachment to a conventional passenger automobile non-collapsible seating body, which body has a top and a tail portion provided with a door affording access to a storage space within such portion, said structure comprising rigid, non-collapsible front, rear, side and top walls providing an auxiliary human-occupancy compartment, the lower portions of said side and front walls being shaped to conform to the contours of said top and tail portion of said automobile body, whereby to fit snugly thereagainst and position the compartment above said top and tail portion; a flat, normally horizontally disposed member for supporting an occupant and mounted in a plane below the top of the seating body and above said storage space door, said member consisting of a rear stationary section and a front displaceable section extending over a portion of said storage-space door when the compartment is mounted on the body, said supporting member being displaceable upwardly from its normal position to afford access to said door and storage space; and means for detachably securing the auxiliary compartment structure to the automobile body.

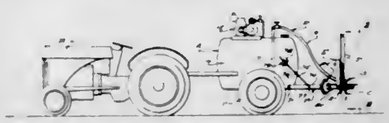
2,614,883
MOISTURE COLLECTING DEVICE
Wilbur G. Anderson, Jr., and Henry R. Kohlhepp, Grand Rapids, Mich., assignors to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan
Application May 15, 1950, Serial No. 162,132
3 Claims. (Cl. 299—24)

1. In a structure as described, a hollow body adapted to be positioned vertically having vertical sides integrally connected with each other and foldable into a hollow body, means permanently securing the free edge portions of said body together upon being brought together in folding, a flap extending from the upper edge of each of said sides of the body foldable downwardly into the upper end thereof to provide a funnel-like entrance member having downwardly and inwardly inclined sides, said flaps having interconnected means for securing them together when folded into the upper end of the body, and a screen permanently secured at the upper edge portions of its sides to the upper edge portions of the sides of said body, said screen sides converging downwardly and inwardly toward each other substantially to a point and adapted to



serve as a holder for material attractive to and having an affinity for moisture, said sides of the body having openings therethrough for moisture laden air to pass therethrough to come to said screen.

2,614,884
PORTABLE SPRAYING EQUIPMENT
Bryant Essick, Los Angeles, Calif., assignor to Essick Manufacturing Company, Los Angeles, Calif., a corporation of California
Application February 14, 1949, Serial No. 76,297
5 Claims. (Cl. 299—40)

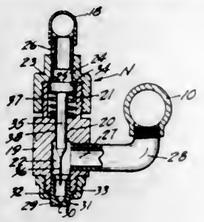


1. In combination, a carrier having wheels engaging the ground, spray distributing means including a plurality of nozzles, a frame carrying said means with the nozzles facing in a predetermined direction relative to the ground, and a mounting supporting the frame from the carrier for vertical adjustment relative thereto and including arms pivoted to the carrier and to the frame and means maintaining the frame with the nozzles facing in said predetermined direction relative to the ground during vertical movement of the frame, the frame carrying end sections mounted on axes maintained horizontally and about which the end sections are shiftable between horizontal and vertical positions through the entire range of vertical adjustment of the frame.

2,614,885
SPRAY NOZZLE WITH PRESSURE OPERATED CLEAN OUT
William J. Roell and Thomas O. Berreau, Minneapolis, Minn.
Application March 19, 1949, Serial No. 82,392
4 Claims. (Cl. 299—59)

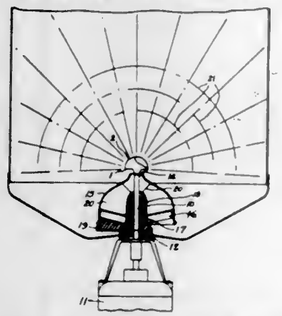
1. A spray nozzle comprising a body having an apertured cross web dividing the same into a pressure chamber and a spray supply chamber, both of said chambers having fluid admission ports, said spray supply chamber having a spray outlet orifice, a reciprocating piston working within said pressure chamber between said ports, a needle equipped stem connected to said piston and projecting through the aperture of said web,

the needle of which stem is aligned with said spray orifice and resilient means urging said pis-



ton to move the needle of said needle equipped stem out of said orifice.

2,614,886
LIQUID DISTRIBUTOR
Albert J. Dewdney, Toronto, Ontario, Canada, assignor to Triumph Dishwashers Limited, Toronto, Ontario, Canada
Application May 1, 1948, Serial No. 24,531
4 Claims. (Cl. 299—63)



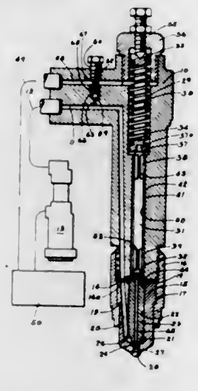
1. A liquid distributing means comprising a block having a spiral under deflecting surface smoothly joining with a reduced central upright hub portion leading to said deflecting surface, said deflecting surface spiralling about a vertical axis extending through said hub and progressively inclining upwardly at an increasing angle relative the horizontal and receding inwardly around the hub towards the axis into vertical alignment with said hub portion presenting a continually changing deflecting angle around the hub, means to rotatably support said block axially in the path of an upwardly directed stream of liquid to deflect a portion of the liquid flowing as an annular column around said hub while permitting a portion of the stream to flow upwardly unimpeded, said block receiving a rotative thrust under liquid pressure when mounted in the path of said stream, and means to rotate said block against said rotative thrust.

2,614,887
TELESCOPIC LAWN SPRINKLER
Garry H. Shields, Portland, Oreg.
Application November 6, 1950, Serial No. 194,319
2 Claims. (Cl. 299—104)



1. A lawn sprinkler consisting of a plurality of telescopically arranged tubes, each tube having a base upon which it rests and adapted to hold it against rotation, all of said tubes having perforations on the upper portion thereof, each adjacent pair of tubes having seals at the end thereof to prevent the escape of water through the joints in the innermost and outermost positions, and a seal on the end of the outermost tube consisting of a plastic ring slidably mounted on said tube having a tapering end adapted to wedge into the space between the outermost tube and the next outermost tube.

2,614,888
FUEL INJECTOR
William M. Nichols, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application October 15, 1948, Serial No. 54,597
10 Claims. (Cl. 299—107.6)

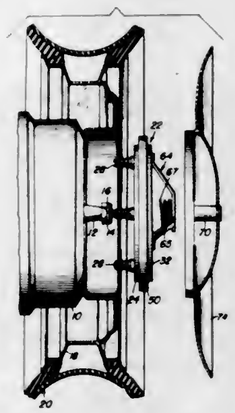


1. A fuel injector comprising a nozzle holder, a nozzle having a bore, a pressure chamber in the nozzle, an annular valve seat in the pressure chamber wall, a valve having a body, a shoulder, and a head, the body being slideable within the nozzle bore, the shoulder being adapted to receive fuel pressure to open the valve, and the head being normally seated upon the valve seat and extending therethrough, spring means normally biasing the valve into seated position, a fuel inlet passageway leading to the chamber and adapted to transmit fuel thereto to intermittently open the valve, an atomizer in communication with the pressure chamber, fuel conducting means through the valve in immediate communication at one end with the pressure chamber when the valve is in open position, and fuel transmission means in communication with the other end of the fuel conducting means adapted to return fuel to the source of supply, the fuel transmission capacities of the fuel conducting means and of the atomizer having a predetermined constant ratio to each other whereby fuel from the pressure chamber will pass through the atomizer and through the conducting means in a selected ratio.

2,614,889
TIRE, WHEEL, AND HUBCAP LOCK
Rex O. Chandler, Ceredo, W. Va.
Application November 20, 1950, Serial No. 196,619
2 Claims. (Cl. 301—9)

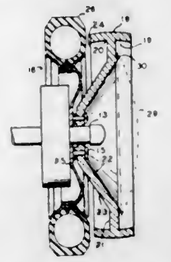
1. In a vehicle wheel construction which includes a drum with threaded apertures, and a wheel, an attachment to fasten the wheel to the

drum, said attachment comprising a back plate having a plurality of spaced openings, bolts disposed in said openings, each bolt having a head with teeth on the periphery thereof, said bolts being threadedly disposed in said apertures and a ring gear disposed in engagement with the teeth of said bolts so that when said ring gear is rotated, said bolts are rotated, a face plate, an inner plate located between said back plate and said face plate, means holding said plates assembled, said inner plate having outwardly open-



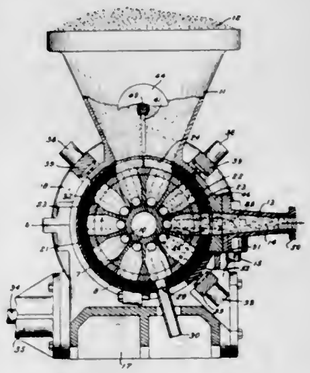
ing recesses therein within which said heads are located, said ring gear being concentrically located with respect to said inner plate and having means to accommodate a tool to rotate said ring gear, locking devices carried by said inner plate and engaging said ring gear to prevent rotation of said ring gear, and means operatively connected with said locking devices and said face plate for releasably holding said locking devices released from said ring gear.

2,614,890
SAFETY DISK WHEEL
Louis Verderosa, Ozone Park, N. Y.
Application April 13, 1949, Serial No. 87,210
2 Claims. (Cl. 301—38)



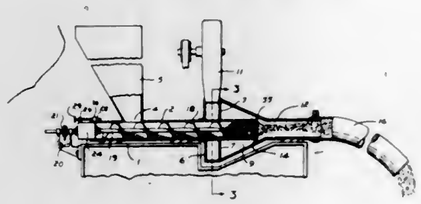
1. An auxiliary wheel of the character described to be used in association with a regular wheel of a motor vehicle and adapted to support the vehicle upon deflation of the regular wheel tire, the auxiliary wheel comprising in combination a main body section having a convexed central portion, a rim about the periphery of the body section, the rim being substantially flat and extending laterally from both sides of the body section, the body section having an axial opening for receiving the end portion of the regular wheel axle and having an annular series of holes about the axial opening for receiving the conventional wheel securing bolts of the vehicle, a series of bosses on the convexed face of the body section so arranged as to keep the rim of the auxiliary wheel spaced a distance from the regular wheel tire in order to allow for side expansion of the regular wheel tire on bouncing, the laterally extended rim serving to allow for spread thereunder of the expanded tire upon substantial deflation thereof, and the laterally extended rim further serving to spread the weight of the vehicle over a greater area when the vehicle is supported by the auxiliary wheel, the main body section having a flat marginal portion intermediately of the rim and the convexed portion, this flat portion serving to center the weight borne by the rim portion, this flat portion also having an opening allowing access to the air valve of the regular wheel tire, the opposed face of the convexed portion of the auxiliary wheel being concaved, nubs integral with the concaved face of the body section and adapted for securing a hub cap thereto whereby dirt may be sealed from the axle end of the regular wheel, and the diameter of the auxiliary wheel being less than that of the regular wheel so that the weight of the vehicle is not borne by the auxiliary wheel except upon substantial deflation of the regular wheel tire.

2,614,891
CONCRETE GUN
Richard R. Colburn, Waterloo, Iowa
Application September 9, 1950, Serial No. 183,946
5 Claims. (Cl. 302—49)



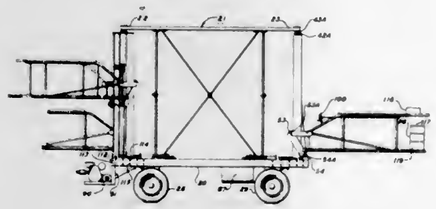
1. In a gun for shooting a jet of granular materials, a rotor having two laterally spaced annular series of segregated pockets the outer ends of which are open at the rotor periphery and the inner end of each of which communicates laterally with the inner end of a fluid admission passage the opposite ends of all of which are disposed in a common plane perpendicular to the rotor axis and in the space between said two series and are also open at the rotor periphery between said pocket series, a granular material supply hopper communicable with the open pocket ends of the revolving pockets, means forming a discharge conduit exposable to said open pocket ends, and means disposed within said plane and between said series for admitting fluid under pressure to the inner ends of the advancing material laden pockets through said passages whenever the outer ends of the successive pockets are exposed to said conduit to forcibly eject the batches of granular material from the pockets in the form of a continuous high velocity jet.

2,614,892
AIR FLOW CONVEYER
Frederick John Cherewick, Vancouver, British Columbia, Canada
Application December 20, 1948, Serial No. 66,350
4 Claims. (Cl. 302—50)



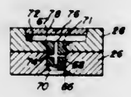
1. A conveyor for comminuted material comprising a cylindrical pipe and a delivery pipe in axial alignment, said pipes being spaced apart to define an annular jet, a feed hopper intermediate the length of the cylindrical pipe, a feed screw extending lengthwise of the cylindrical pipe and terminating short of the jet to define an unobstructed cylindrical space wherein material acted upon by the feed screw will compress into a substantially self supporting solid cylindrical body, the diameter of the portion of the cylindrical pipe between the end of the feed screw and the jet being constant and being equal to the diameter of the end of the feed screw, said cylindrical pipe and delivery pipe being of the same diameter adjacent the annular jet, and means for admitting air under pressure through the annular jet.

2,614,893
AGRICULTURAL SCAFFOLD
Wallace Dearborn Merrill, Monrovia, and Charles Arthur Merrill, Santa Barbara, Calif.
Application June 24, 1947, Serial No. 756,648
4 Claims. (Cl. 304—29)



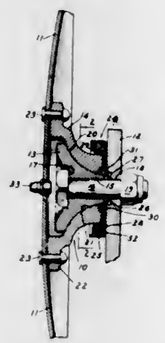
4. In an agricultural scaffold, the combination which comprises a base member, a plurality of upright tracks rotatably mounted on the base member remote from each other to swing respectively on upright axes, a framework connecting the tracks at their upper ends in such a manner that each track contributes to the stabilization of the plurality of tracks, scaffolds mounted respectively on the tracks and movable individually from the base substantially the length of each of said tracks, separate hydraulic means to move the scaffolds on their respective tracks, separate hydraulic means to swing the respective tracks, valve means for separately controlling the several hydraulic means, and means for controlling the valve means associated respectively with the raising and turning means for each scaffold and mounted respectively on that scaffold.

2,614,894
PIVOT FOR PLIER TYPE TOOLS
Hinton D. Brock, Cocoa, Fla., assignor of one-fourth to Enes H. Brock, Gulfport, Miss., and ten per cent to W. L. Bowers, Cocoa, Fla.
Application November 14, 1949, Serial No. 126,970
1 Claim. (Cl. 308—2)



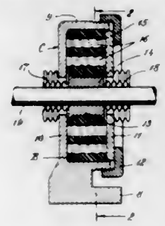
A plier type tool comprising a pair of handles including crossed end portions having aligned transverse bores therein, one of said end portions further having a threaded lubricant chamber in its outer face communicating with the bores, a rivet in the bores pivotally connecting the handles and including enlarged end portions countersunk in the outer end portions of the bores, said rivet having lubricant passages therein communicating with its periphery and with the chamber, and a removable closure disc threadedly mounted in the chamber and substantially flush with said outer face of said one end portion.

2,614,895
BEARING FOR GRAIN DRILL DISKS
Robert L. Erwin, Royal Oak, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware
Application April 30, 1949, Serial No. 90,648
4 Claims. (Cl. 308—19)



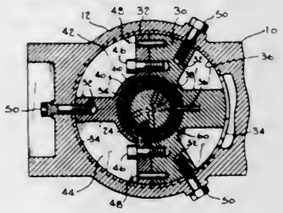
1. A bearing for mounting a disc tool on an implement comprising a hub supporting member having a concave toric exterior bearing surface, a hollow hub surrounding said hub supporting member and having a convex toric interior bearing surface engageable in bearing relationship with said concave toric exterior bearing surface, means for non-rotatably securing said hub supporting member to the implement with the small diameter ends of said toric bearing surfaces disposed adjacent the implement, whereby said hollow hub is restrained against axial movement between said hub supporting member and the implement, said toric bearing surface being generated by an arc of a circle, whereby side thrust bearing load is distributed over a substantial area of said toric bearing surfaces.

2,614,896
ADJUSTABLE DAMPENING BEARING SUPPORT
Winslow S. Pierce, Jr., Keene, N. H.; Mary Brush Pierce, executrix of said Winslow S. Pierce, Jr., deceased, assignor to Mary Brush Pierce
Application May 6, 1950, Serial No. 160,494
10 Claims. (Cl. 308—26)



1. A bearing structure comprising a block of yieldable resilient material having a central opening therein, a bearing carried in said central opening, said block having a plurality of fluid pockets therein extending substantially parallel to and distributed about said bearing opening and opening into a face of said block, a casing carrying said block including a wall overlying and closely adjacent the openings of said fluid pockets and forming restricted fluid passages between said pockets and a hydraulic fluid filling said pockets and the restricted space between said overlying wall and the block face into which said pockets open.

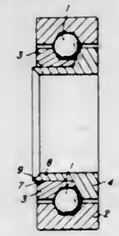
2,614,897
MAIN BEARING FOR MULTICRANK ENGINES
Ralph N. Kircher, West Bend, and Wilford B. Burkett, Hartford, Wis., assignors to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application March 11, 1950, Serial No. 149,118
8 Claims. (Cl. 308—35)



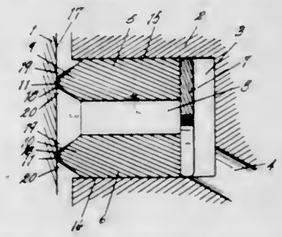
1. A center main bearing for an engine having a crank shaft with a cylindrical bearing area and crank cheeks with bearing surfaces thereon adjacent said bearing area, comprising a fixed outer cylindrical thrust bearing having edges in bearing engagement with and forming a pressure seal with said surfaces, and an inner antifriction bearing positioned within said cylindrical bearing and operative between said cylindrical bearing and said bearing area to carry radial loads.

2,614,898
BALL BEARING
Charles A. Adams, Davenport, Iowa
Application December 14, 1948, Serial No. 65,178
2 Claims. (Cl. 308—196)

1. A bearing comprising a bearing ring provided with a channel of semi-hexagonal cross-section having a central cylindrical ball-receiving surface and two angularly related conoidal surfaces, a bearing ring cooperating with the first ring and having a channel in one edge shaped to provide a ball-receiving conoidal surface diametrically opposite one of said two conoidal surfaces and contiguous to the other, said second bearing ring also having an elongated cylindrical surface lying in radially spaced relation with respect to said ball-receiving conoidal surface, the elongated cylindrical surface of said second bearing ring lying substantially directly opposite the central cylindrical surface of the first mentioned bearing ring, said cylindrical surfaces being substantially concentric and spaced apart a distance greater than the distance between said diametrically opposite conoidal surfaces, a third ring cooperating with the first and second rings in forming a ball raceway having a hexagonal cross-section, and balls in said raceway serving as friction-reducing means for the rings, said third ring having a conoidal surface lying, when the bearing is assembled, diametrically opposite said other conoidal surface of said first mentioned bearing ring, and an axially inward portion having a cylindrical ball-receiving surface and, spaced radially therefrom, an elongated cylindrical surface adapted to telescope within and overlap the elongated cylindrical surface of said second bearing ring, the cylindrical ball-receiving surface of said third ring being spaced radially from the cylindrical ball-receiving surface of said first mentioned bearing ring a distance equal to the diameter of one of said balls.



2,614,899
PISTON RING
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application May 7, 1951, Serial No. 224,985
9 Claims. (Cl. 309—45)



1. A piston ring assembly comprising a split expansible ring element and an expander spring for forcing the ring element outwardly towards the cylinder wall, said ring element being of cast iron and having axially spaced radially outwardly projecting annular portions, each having an annular outer surface transversely straight and disposed parallel to the axis of the ring element, and each having annular surfaces transversely straight and disposed in diverging relation to each other and extending inwardly from the opposite side edges of said outer surface, the width of said outer surface being not greater than approximately .015 of an inch and not less than

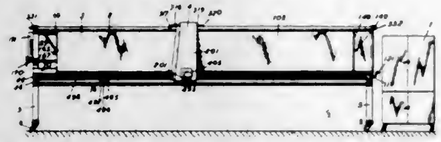
approximately .003 of an inch, the angle of each diverging surface to the outer surface extended being not greater than approximately 50° and not less than approximately 20°, and chrome plating on the outer surface extending over onto the diverging surfaces, said ring element having oil drain passageways extending from between said spaced annular portions radially inwardly through the ring element.

2,614,900

RECORDING INSTRUMENT AND EQUIPMENT

William Herbert Victor Clarke, Bournemouth, and Thomas Stuart Parramore, West Malling, England, assignors to Airspeed Limited, Portsmouth, England, a company of Great Britain

Application February 16, 1949, Serial No. 76,682
In Great Britain February 16, 1948
14 Claims. (Cl. 346—34)



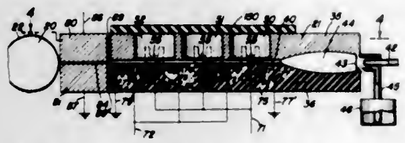
1. In an instrument for recording the magnitudes of physical quantities derived from a plurality of test devices, the combination of an elongated record surface having separate longitudinal sections thereof assigned to said devices, a recording stylus, means mounting said stylus to repeatedly traverse said recording surface transversely thereof, driving means producing relative movement between said recording surface and said stylus longitudinally of said surface in repeated cycles and at such rate that successive traverses of said stylus occur in separate longitudinal sections thereof assigned to different test devices, switching means operating in timed relation with the relative movement between said stylus and said surface for connecting said stylus to the test device corresponding to the particular section over which said stylus is moving, means controlled by each test device when connected to said stylus for marking said record surface at a point in each traverse corresponding to the magnitude of the physical quantity derived from the test device, and means for shifting said record surface lengthwise thereof, after each lengthwise traverse, a distance equal to a small fraction of the length of a section of said surface, whereby marks produced in each section on successive cycles are spaced from each other by said distance.

2,614,901

RECORDING HEAD FOR FACSIMILE REPRODUCTION AND THE LIKE

Carlyle W. Jacob, Rochester, N. Y.

Application August 4, 1949, Serial No. 108,553
26 Claims. (Cl. 346—75)



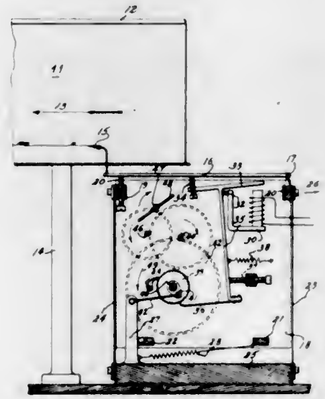
9. A recording head of the character described having a duct extending therethrough through which a stream containing marking particles entrained in a gas may be passed, a corona electrode mounted in said head in operative relation to said duct, said duct being widened laterally opposite said corona electrode, a precipitating unit having a passageway therethrough into which the charged particles may pass from said duct, and means for creating an electrical field in said passageway, the intensity of which is controlled in accordance with received signals.

2,614,902

AUTOGRAPHIC RECORDER

František Barvitius, Prague, Czechoslovakia, assignor of one-half to Metra, narodni podnik, Blansko, Czechoslovakia, a corporation of Czechoslovakia

Application August 22, 1950, Serial No. 180,725
In Czechoslovakia September 19, 1949
5 Claims. (Cl. 346—127)



1. In an autographic recorder particularly for recording quickly following transient impulses, the combination comprising a carrier for a record sheet, said carrier moving said record sheet uniformly in one direction, a writing implement inscribing upon said record sheet, a holder for said writing implement, a frame or casing, said holder mounted upon said frame or casing to permit the writing implement to deviate transversely to the direction of motion of the record sheet, actuating means mounted within said frame or casing to effect said transverse deviation of the writing implement, said actuating means being responsive to transient impulses to be recorded, said frame or casing being mounted for lateral displacement from a rest position in a direction opposite to the direction of motion of the record sheet, driving means mounted in said frame or casing to effect said lateral displacement thereof, said driving means being operated by said actuating means when the same respond to a transient impulse to be recorded, means to return the displaced frame or casing towards its rest position when said driving means cease to be operated and a retarder coupled with said driving means to slow down said return movement of the displaced frame or casing towards its rest position.

2,614,903

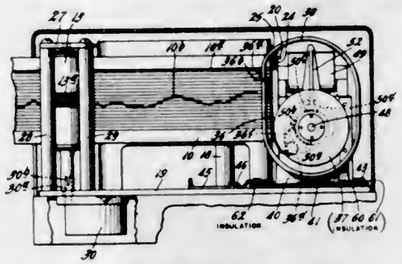
SCANNING RECORDER

Hamilton A. Stamper, Birt G. Blackman, and Donald O. Nelson, Los Angeles, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application January 12, 1951, Serial No. 205,771
14 Claims. (Cl. 346—139)

1. Apparatus of the type described comprising: means for supporting and moving a sheet record

in transversely flat shape through a fixed record path past a fixed straight scanning path extend-



ing transversely across said record path; a scanning mechanism positioned entirely on the front side of said record path and including a stylus carrier and an elongated resilient stylus member attached at one end to said carrier and having a free scanning end; means rotatably supporting said carrier for continuous rotation about a fixed axis, and means for rotating it; said resilient stylus member when unrestrained extending from its point of attachment to said carrier in a direction having a radial component away from said axis; and means including a guide member positioned on the front side of said record path adjacent and parallel to said scanning path, and in the plane of rotation of a portion of said stylus member adjacent the end thereof for contacting said portion of the stylus member during the scanning portion of each revolution thereof and deflecting said scanning end into substantially linear travel through said scanning path.

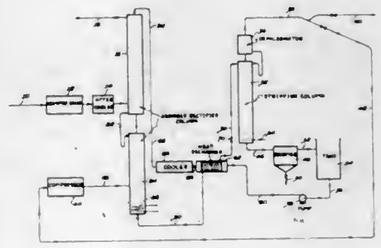
CHEMICAL

2,614,904

GAS SEPARATION

Leslie W. Royer, Aliquippa, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application December 4, 1946, Serial No. 713,899
1 Claim. (Cl. 23—2)



A method for separating H_2S of over 98 percent purity from a gaseous mixture of H_2S and CO_2 which comprises flowing said gaseous mixture upwardly in an absorption zone in multistage contact with a liquid selective absorbent selected from the group consisting of kerosene and aniline, controlling the relative volumes of liquid absorbent and gaseous mixture to absorb substantially all of the H_2S from the gaseous mixture by the time it reaches the top of the absorption zone, contacting liquid absorbent from the absorption zone in a second multistage contact zone with substantially pure H_2S and thereby displacing CO_2 from said liquid absorbent and saturating it with H_2S, and stripping H_2S from the saturated liquid absorbent in a stripping zone.

2,614,905

METHOD OF COAGULATING POLYVANADIC ACID SALTS

Tom S. Perrin, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application November 1, 1949, Serial No. 124,954
6 Claims. (Cl. 23—51)

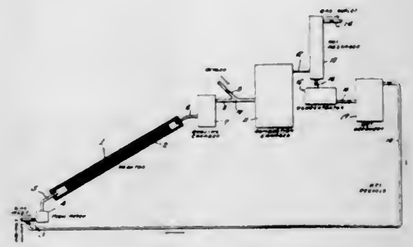
1. In the method of coagulating sodium and ammonium acid salts of hexametavanadic acid, in which a solution containing a mixture of hydrous acidic vanadium oxides and having a pH of less than 1 is neutralized with a base of the class of sodium and ammonium bases to a pH within the range of 1–3 to precipitate a coagulum of salts of hexametavanadic acid, the improvement which comprises the steps of contacting a body of said solution prior to neutralization with a mass of lead peroxide to oxidize reduced hydrous acidic vanadium oxides in said mixture and polymerize the metavanadic acid to hexametavanadic acid, and separating said solution from said mass and the reduction product thereof.

2,614,906

IN THE METHOD OF MAKING FINELY DIVIDED SILICA, THE PRODUCTION OF A COMBUSTIBLE MIXTURE COMPRISING CHLORO SILICON HYDRIDES

Leonard Spialter, Newark, N. J., and Charles A. MacKenzie, New Orleans, La., assignors, by direct and mesne assignments, of one-half to Montclair Research Corporation, a corporation of New Jersey, and one-half to Ellis-Foster Company, a corporation of New Jersey

Application March 27, 1947, Serial No. 737,703
2 Claims. (Cl. 23—182)



1. In a method of making finely divided silica, the step of continuously passing a current of a gas from the group consisting of a mixture of hydrogen and chlorine and a mixture of hydrogen chloride with hydrogen and chlorine, through a reaction zone over silicon heated to a temperature of from 200 to 450° C., to form a combustible mixture containing a plurality of chloro silicon hydrides.

2,614,907
PRODUCTION AND RECOVERY OF HYDROGEN PEROXIDE

Gerhard A. Cook, Snyder, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

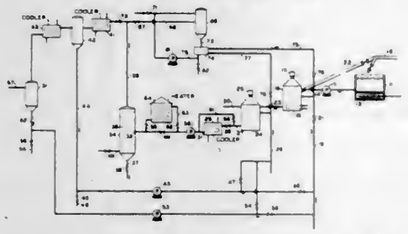
No Drawing. Application May 27, 1948, Serial No. 29,671
6 Claims. (Cl. 23—207)

1. Process of recovering hydrogen peroxide from an aqueous solution initially containing said hydrogen peroxide and aldehydes readily reactable to organic peroxides, which comprises adding to said solution an alkaline earth metal hydroxide which precipitates the organic peroxides as corresponding metal peroxide, separating the alkaline earth metal peroxide from the solution, and releasing hydrogen peroxide from said metal peroxide by treating with acid and aqueous suspension of the latter compound.

2,614,908
PROCESS FOR PRODUCING FINELY DIVIDED SULFUR

Darrell C. Railsback, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 11, 1949, Serial No. 104,024
13 Claims. (Cl. 23—224)



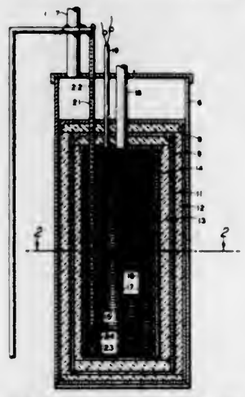
1. A process for the production of finely divided sulphur which comprises the steps of dissolving sulphur in a hydrocarbon fraction in a liquid state at a temperature of at least 240° F.; forming an emulsion of said sulphur-containing hydrocarbon fraction in water; placing said emulsion under pressure; injecting said emulsion into a vaporization zone under vaporizing conditions, whereby said hydrocarbon and water are vaporized, a separate sulphur particle is formed from each individual droplet of said emulsion as the result of said vaporization and said hydrocarbon and water vapors are separated from resulting finely divided solid sulphur and recovering said finely divided sulphur.

2,614,909
FRACTIONAL FUSION APPARATUS

John G. Aston and Sebastian V. R. Mastrangelo, State College, Pa., assignors to Phillips Petroleum Company, a corporation of Delaware

Application February 21, 1950, Serial No. 145,404
5 Claims. (Cl. 23—280)

1. A fractional fusion apparatus which comprises in combination, a closed material receiving container; an upright mass of heat-conducting gauze within and extending throughout the length of said material receiving container; at least one first electrical heating element closely contacting the periphery of said material receiving container; a first layer of insulation material covering the surface of said material receiving container and said first heating element; a closed heater shield chamber closely fitted around said first layer of insulation; at least one second electrical heating element closely contacting the periphery of said heater shield chamber; a second layer of insulation covering the surface of said heater shield chamber and said second electrical heating element; a closed radiation shield chamber closely fitted around said second layer of insulation; a closed outer container closely fitted

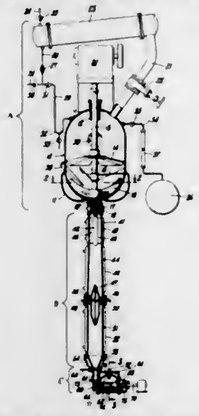


around the periphery of said radiation shield chamber; a filling tube extending from outside said outer container into said material receiving container; a liquid product removal conduit extending from the lower portion of said container to the exterior of said apparatus; and means to evacuate said outer container.

2,614,910
CONTINUOUS POLYMERIZING APPARATUS

Ivey Allen, Jr., and Walter R. Marshall, Bloomfield, N. J., and Gordon E. Wightman, Newburgh, N. Y., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application June 14, 1949, Serial No. 98,959
7 Claims. (Cl. 23—290)

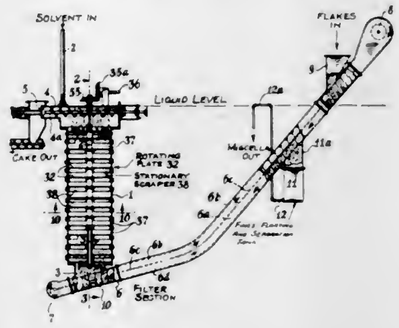


1. Polymerizing apparatus comprising in combination, an autoclave shell having a surface of revolution provided with an inlet and an outlet, an agitator shaft journaled in said shell coaxial with said surface of revolution, agitator blades mounted on said shaft to rotate therewith inside said shell, an elongated jacketed tubular extension of smaller diameter than said shell and secured thereto in position surrounding said outlet and extending therefrom a greater length than said shell, and an enclosed kneading device comprising a casing secured to the discharge end of said jacketed tubular extension and having a rotating kneading element journaled in said casing.

2,614,911
COUNTERCURRENT EXTRACTION PROCESS AND APPARATUS

Michele Bonotto, Princeton, N. J.

Application May 7, 1947, Serial No. 746,526
4 Claims. (Cl. 23—310)



1. A process for the extraction of buoyant solid material in which a solid process material having a lower specific gravity than the solvent utilized is continuously passed through an extraction unit, a solvent having a higher specific gravity than the process material is fed and continuously passed in counter-current, to the movement of said solid material, and liquid miscella is produced, which consists in conducting said miscella to move continuously in counter-current with the movement of said buoyant solid material toward and to the miscella outlet, forming during such conduction a pool of said liquid miscella, discharging said miscella through said pool, conveying the solid material across said pool of said miscella to cause a floating out of fines from said miscella and then conveying said solid material loaded with fines from the miscella to said extraction unit.

2,614,912
PROCESS FOR MAKING COLORED ALUMINUM

Cyril M. Rice, Montreal, Quebec, Canada, assignor to Sinclair & Valentine Company, New York, N. Y., a corporation of New York

No Drawing. Application October 7, 1950, Serial No. 189,057. In Canada April 19, 1946.
3 Claims. (Cl. 41—41)

1. The method of decorating anodized aluminum sheet material which comprises printing on the anodized surface of the aluminum a design in an ink comprising a dye dissolved in a film-forming ink vehicle, dyeing the unprinted portions of the surface by immersing the surface in a dye solution which does not dissolve the ink vehicle, sealing the surface by treatment with boiling water and dissolving away the remaining ink vehicle.

2,614,913
BRIGHTENING BATH

Harold J. Reindl and Stanley R. Prance, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

No Drawing. Application October 20, 1950, Serial No. 191,324
7 Claims. (Cl. 41—42)

1. A brightening bath for use in connection with aluminum and/or aluminum alloys wherein the brightening is carried out at a temperature varying between 185° F. to 212° F. consisting of; a solution having as its basic ingredients ammonium bifluoride .30% to .75%, nitric acid 2.0% to 7.5%, chromic acid .30% to .75% and ethylene glycol .40% to 1.0% and wherein water makes up substantially the remainder of the bath.

2,614,914
DIESEL FUEL CONTAINING DI-TERTIARY ALKYL SULFIDES AS IGNITION PROMOTERS

Lawrence T. Eby, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

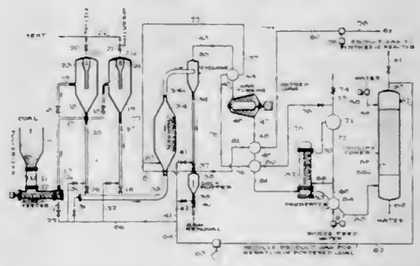
No Drawing. Application June 4, 1946, Serial No. 674,373
3 Claims. (Cl. 44—57)

1. A hydrocarbon diesel fuel containing an ignition-promoting amount of a dialkyl sulfide having tertiary alkyl radicals of from 8 to 25 carbon atoms and having 4–8 sulfur atoms linking the respective tertiary alkyl radicals.

2,614,915
MANUFACTURE OF SYNTHESIS GAS

Joel H. Hirsch, Oakmont, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application November 24, 1947, Serial No. 787,829
3 Claims. (Cl. 48—203)



1. In a process for the production of a synthesis gas mixture of hydrogen and carbon monoxide wherein a finely divided coal is fluidized, continuously introduced into a reaction zone, reacted with steam and oxygen under superatmospheric pressure, and the hot gaseous reaction products are expanded with the production of external work, the steps which comprise fluidizing finely divided coal in a stream of recycled synthesis gas, passing said stream of fluidized coal into one of at least two storage zones maintained under substantially atmospheric pressure, interrupting the passage of said fluidized coal into said storage zone while maintaining the coal therein in fluidized condition, increasing the pressure in said storage zone to a superatmospheric pressure at least equal to that existing in the reaction zone, maintaining a vertical column of said fluidized coal below said storage zone and communicating therewith, said vertical column being of sufficient height to produce a fluid pressure head over the bottom of said column, opening the bottom of said vertical column to said reaction zone, conveying said fluidized coal from said storage zone through said column into said reaction zone by a stream of recycled synthesis gas, closing the bottom of said vertical column from said reaction zone when said storage zone is nearly empty, venting said storage zone until the pressure therein is substantially atmospheric and

repeating said cycle while at least one other storage zone is being filled and emptied in an alternate sequence.

2,614,916

AGRICULTURAL CHEMICAL COMPOSITIONS COMPRISING 1,2 - DIHYDROPYRIDAZINE-3,6-DIONE AND ITS SALTS

Otto L. Hoffmann, Bethany, and Dwight L. Schoene, Woodbridge, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application July 20, 1949, Serial No. 105,900
14 Claims. (Cl. 71—2.4)

1. An agricultural chemical composition comprising material of the group consisting of 1,2-dihydropyridazine-3,6-dione and its salts, said composition containing a wetting agent

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2,614,917

PLANT GROWTH REGULANTS

John W. Zukel, Hamden, and Walter D. Harris, Naugatuck, Conn., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 4, 1951, Serial No. 204,490
21 Claims. (Cl. 71—2.5)

5. A plant growth regulant composition comprising a monoacylated derivative of maleic hydrazide and an oil.

2,614,918

METHOD OF SETTING FRUIT AND COMPOSITION THEREFOR

Russell A. Kaberg, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 25, 1945, Serial No. 624,573
13 Claims. (Cl. 71—2.5)

1. A method of setting fruit on fruit trees comprising depositing on the blossoms of said trees during the blossoming period an 8-quinolinol compound selected from the group consisting of 8-quinolinol, 5,7-dibrom - 8 - quinolinol, 5,7-dichlor-8-quinolinol and copper, cadmium and zinc salts thereof, in a concentration and an amount sufficient to set fruit but insufficient to harm the trees.

2,614,919

PROCESS OF MAKING HERBICIDAL COMPOSITION OF MATTER

John C. R. Warren and Frederick M. M. J. Hager, Elmira, Ontario, Canada, assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application March 28, 1951, Serial No. 218,098
15 Claims. (Cl. 71—2.6)

1. In the process of making a composition of matter containing an ester of an aryloxyacetic acid, the steps which comprise reacting an aryloxyacetic acid with an alcohol in the presence of an alkyl-substituted aryl sulfonic acid, in which the alkyl side chain contains at least ten carbon atoms, as an esterification catalyst until esterification of said acid with said alcohol is substantially complete, thereafter neutralizing said alkyl-substituted aryl sulfonic acid with an organic amine, and thereby forming in situ an amine salt of said alkyl-substituted aryl sulfonic acid which is available as a surface active and like agent when the resulting mixture is used.

2,614,920

METHOD OF BREAKING SINTER CAKE DURING SINTERING

Walter Kelsey, New York, N. Y.

Application August 8, 1950, Serial No. 178,195
1 Claim. (Cl. 75—45)



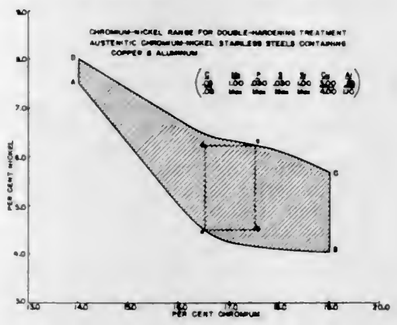
The method of converting a flow of stock flowing by gravity in an inclined direction into broken sinter, which consists in burning a first layer of the flow of stock to a first layer of sinter above the stock, subjecting said first sinter layer to a breaking into sinter parts above the remaining part of stock flow, burning a second layer of the flow of stock to a second sinter layer below said first sinter layer and above the remaining flowing stock, subjecting said first and said second sinter layers to a breaking into sinter parts above the remaining part of stock flow, and repeating the burning and breaking of flowing stock layers until the entire stock flow has been converted to sinter layers and into broken sinter, whereby the flow of stock is completely converted into broken sinter.

2,614,921

STAINLESS STEEL AND METHOD

Harry Tanczyn, Baltimore, Md., assignor to Armco Steel Corporation, a corporation of Ohio

Application August 25, 1950, Serial No. 181,498
6 Claims. (Cl. 75—124)



1. A chromium-nickel stainless steel capable of precipitation-hardening by double heat-treatment from a soft, workable and substantially fully austenitic condition, said steel containing chromium and nickel in amounts substantially in accordance with area ABCD in the accompanying diagram, carbon from traces up to about 0.15% maximum, aluminum about 0.80% to 1.75%, copper between 2.00% to 5.00%, manganese from incidental amounts up to about 2.00% maximum, silicon from incidental amounts up to about 2.00% maximum, and the remainder substantially all iron.

2,614,922

METHODS OF DEWAXING PAPER

Henry B. Hope, Mount Vernon, N. Y., assignor to R. H. Comey Company, Inc., Brooklyn, N. Y., a corporation of New York

No Drawing. Application November 13, 1947, Serial No. 785,813
5 Claims. (Cl. 92—1.6)

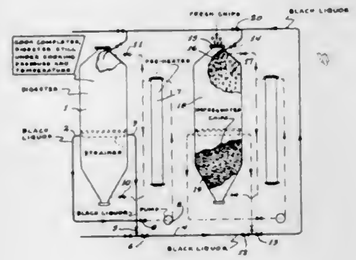
1. The process for reclaiming wax-paper products which comprises, in combination, digesting a quantity of such products in a first bath comprising an aqueous solution containing from about 0.4% to about 1.9% of an organic sulfonated wetting-detergent-scouring agent, selected from the group consisting of alkali-metal alkyl sulfonates and alkali-metal alkyl aryl sulfonates, and sufficient strong acid to yield a pH number of from approximately pH 1.3 to about pH 2, at a temperature of from about 70° C. to about 100° C., for from about fifteen minutes to about five hours, whereby the waxy constituent is for the most part separated from the product, and rises to the surface of the bath; skimming the wax from the surface; draining the product from the first bath, and treating it in a second bath comprising an aqueous solution containing from about 0.03% to about 0.2% of a gas evolving bleaching agent at approximately 70° C., for from about ten minutes to about fifteen minutes, whereby remanent wax is dislodged from the product and rises to the surface bath; skimming off the wax; and finally rinsing the wax-free paper product with water.

2,614,923

DIGESTER FILLING IN SULFATE PULPING

Oma Tarkkonen, Sunila, Finland, assignor of one-half to Sunila Osakeyhtio, Sunila, Finland, a corporation of Finland

Application February 1, 1947, Serial No. 725,963
In Finland April 17, 1946
2 Claims. (Cl. 92—7)



1. The process of manufacturing sulphate pulp which comprises the following steps, simultaneously charging a digester with chips and with black liquor under pressure, which black liquor has been obtained from a previous completed sulfate cook, and thereby packing the chips into the digester with said black liquor, said black liquor being substantially under the same temperature and pressure that it had when withdrawn from said previous cook, said black liquor in said charging operation being in sufficient amount to practically impregnate the whole of said charge of chips with black liquor and after said impregnated chips are packed in said white liquor to said digester to digest said impregnated chips, then adding the requisite amount of

2,614,924

COMPOSITION FOR FABRICATING PAPER AND A PROCESS OF MAKING IT

Bernard Chiego, Newark, N. J., assignor, by direct and mesne assignments, of ten per cent to Frank Gardner, Baltimore, Md., and eighty per cent to Albion D. T. Libby, Newark, N. J.

No Drawing. Application March 8, 1949, Serial No. 80,317
6 Claims. (Cl. 92—14)

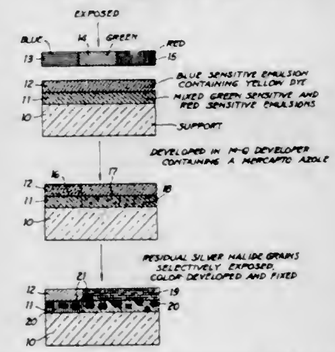
5. A composition for making paper consisting of about 50% of paper pulp and about 50% of a residue obtained from treating one of the group consisting of corn cobs and bagasse by grinding the said one into a suitable mesh size, then treating the ground material in approximately a 1% water solution of caustic soda at a temperature of about 212 to 220 degrees F. for about 30 minutes, then washing out the black liquor, then bleaching and drying the residue ready for use.

2,614,925

MERCAPTO AZOLES IN DEVELOPER FOR MIXED GRAIN PHOTOGRAPHIC PROCESS

Burt H. Carroll and Forrest A. Richey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 20, 1949, Serial No. 134,044
5 Claims. (Cl. 95—2)



1. The method of controlling the inter-image effects in the development of a silver halide emulsion layer containing at least two sets of silver halide grains, each set being sensitive to a different spectral region, which comprises exposing said layer to a colored object or image and developing it in a black-and-white developer containing an azole having a mercapto substituent, and then sucsessively exposing the sets of residual silver halide grains to light to which each set is sensitive and successively developing said sets of silver halide grains to different colored images in said layer with different color-forming developer solutions.

2,614,926

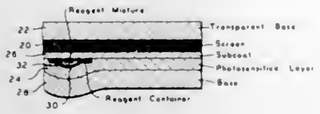
PHOTOGRAPHIC PRODUCT COMPRISING AN ADDITIVE COLOR SCREEN, A SILVER HALIDE LAYER, AND A RUPTURABLE CONTAINER, AND A PROCESS OF ADDITIVE COLOR PHOTOGRAPHY

Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware

Application January 17, 1946, Serial No. 641,808
14 Claims. (Cl. 95—2)

1. In a color photographic process making use of an additive color screen for taking and viewing purposes, the steps of exposing through said

screen a color sensitive silver halide emulsion layer arranged in superposed relation to said screen to form a negative latent image in said emulsion layer, said screen comprising a layer of a transparent material carrying colored filter media which are arranged to provide a screen pattern and which are of at least two different colors corresponding to the additive colors desired for said screen, developing the latent image in said emulsion layer to silver by absorbing in said emulsion layer a liquid reagent comprising a developer and a silver halide solvent which forms a soluble silver complex with unexposed silver halide, transferring from said emulsion layer, by imbibition, at least part of said silver complex to at least a stratum of a permeable transparent layer constituting a receiving layer for said complex and arranged in superposed relation to said emulsion layer on the color screen side of the emulsion layer whereby to provide in conjunction with said emulsion layer and said color screen a unitary structure, holding said layers fixed against any appreciable relative movement in a direction parallel to the planes of said layers while transporting to said stratum a quantity of said soluble complex sufficient to form in said stratum a positive silver image of said latent image, and thereafter separating said emulsion layer from said unitary structure while retaining said filter media and said receiving layer in fixed relation one to the other.



11. As a new article of manufacture, a photographic product having a multiplicity of layers and adapted to have formed therein a reverse image of a latent image contained in a photosensitive layer of the product, said product including a color-sensitive silver halide layer as a photosensitive layer thereof, an additive color screen comprising a layer of a transparent material and colored filter media carried thereby and arranged in a screen pattern, said colored filter media being of at least two different colors selected to provide the desired colors for said screen, said screen layer and said photosensitive layer being positionable in superposed relation whereby said photosensitive layer is exposable by actinic light transmitted through said screen layer and said layers, when so positioned being releasably held in said superposed relation, said screen layer providing means for supporting, in superposed relation thereto and to said photosensitive layer, a permeable stratum of an image-receptive material in integral attachment to said screen layer whereby said screen layer and said stratum are separable as a unit from said photosensitive layer, and a rupturable container holding a liquid processing reagent carried by one of the layers of said product and located between two of the layers of said product at a position for releasing its liquid content therebetween for permeation at least into said photosensitive layer, said processing reagent including a silver halide developer and a silver halide solvent adapted to develop latent image in said photosensitive layer and form as a result of said development a differential disposition of silver complex for transfer by imbibition to provide in said stratum said reverse image.

2,614,927

RAPID PROCESSING OF PHOTOGRAPHIC MATERIALS

Geoffrey Broughton and Robert N. Woodward, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application June 1, 1949, Serial No. 96,627
7 Claims. (Cl. 95—6)

1. A rapid process for the formation of an image in a photographic emulsion layer which comprises exposing a silver halide emulsion layer containing a developing agent selected from the group consisting of 3,4-dihydroxy diphenyl; 2,5-dihydroxy diphenyl; and 2,3-dihydroxy diphenyl, developing a silver image in said exposed layer by treatment with an alkaline solution, and immediately thereafter stabilizing said layer with a solution of a compound selected from the group consisting of alkali metal and ammonium thiocyanates and thiosulfates, thioureas and thioglycollic acid, and drying said layer without further treatment.

7. A light sensitive photographic element comprising a support having thereon a direct-positive silver halide emulsion layer containing a substantially water-insoluble silver halide developing agent selected from the group consisting of 3,4-dihydroxy diphenyl; 2,5-dihydroxy diphenyl; and 2,3-dihydroxy diphenyl.

2,614,928

METHOD OF PREPARING PHOTOGRAPHIC EMULSIONS

Henry C. Yutzy and Gordon F. Frame, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 13, 1947, Serial No. 768,475
16 Claims. (Cl. 95—7)

1. In a method of preparing washed silver halide dispersions, the steps which comprise mixing together a water-soluble silver salt and a water-soluble halide salt in an aqueous solution of a gelatin derivative whose presence renders the dispersion coagulable at a pH within the range of pH 3–4.5, which derivative is selected from the group consisting of the aromatic sulfonyl chloride derivatives of gelatin, the carboxylic acid chloride derivatives of gelatin, the carboxylic acid anhydride derivatives of gelatin, the aromatic isocyanate derivatives of gelatin and the 1,4 diketone derivatives of gelatin, coagulating the dispersion of silver halide in gelatin derivative thus formed by adjusting to said pH, whereby silver halide-gelatin derivative grains are formed, and subsequently separating the silver halide-gelatin derivative grains thus formed from the liquid portion of the mass.

2,614,929

METHOD OF PREPARING PHOTOGRAPHIC EMULSIONS

Henry C. Yutzy and Frederick J. Russell, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 13, 1947, Serial No. 768,476
13 Claims. (Cl. 95—7)

1. In a method of preparing washed silver halide dispersions, the steps which comprise mixing a water-soluble silver salt and a water-soluble halide salt in an aqueous solution of a peptizing colloid, mixing therewith at least 2 parts

of a gelatin derivative per part of the peptizing colloid, thereby rendering the silver halide dispersion coagulable at a pH within the range of pH 3–4.5, which gelatin derivative is selected from the group consisting of the aromatic sulfonyl chloride derivatives of gelatin, the carboxylic acid chloride derivatives of gelatin, the carboxylic acid anhydride derivatives of gelatin, the aromatic isocyanate derivatives of gelatin and the 1,4 diketone derivatives of gelatin, coagulating the dispersion of silver halide by adjusting to said pH whereby silver halide-peptizer-gelatin derivative grains are formed and subsequently separating those grains from the liquid portion of the mass.

2,614,930

METHOD OF PREPARING POLYVINYL ALCOHOL-SILVER HALIDE PHOTOGRAPHIC EMULSIONS

Wesley G. Lowe and Kearney P. Griffin, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 13, 1947, Serial No. 768,478
13 Claims. (Cl. 95—7)

2. A method of preparing washed polyvinyl alcohol-silver halide photographic emulsions which comprises the steps of preparing a dispersion of silver halide in an aqueous solution of a gelatin derivative whose presence renders the so-obtained dispersion coagulable at a pH within the range of pH 3–4.5, which derivative is selected from the group consisting of the aromatic sulfonyl chloride derivatives of gelatin, the carboxylic acid chloride derivatives of gelatin, the carboxylic acid anhydride derivatives of gelatin, the aromatic isocyanate derivatives of gelatin and the 1,4 diketone derivatives of gelatin, coagulating the dispersion of silver halide in gelatin derivative by adjusting to said pH whereby silver halide-gelatin derivative grains are formed, separating the thus-formed silver halide-gelatin derivative grains from the liquid portion of the mass and subsequently incorporating those grains in an aqueous solution of polyvinyl alcohol, thereby forming a washed silver halide-polyvinyl alcohol photographic emulsion.

2,614,931

METHOD OF PREPARING CELLULOSE ESTER-SILVER-HALIDE PHOTOGRAPHIC EMULSIONS

Wesley G. Lowe and Gordon F. Frame, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 13, 1947, Serial No. 768,479
14 Claims. (Cl. 95—7)

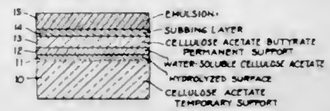
1. A method of preparing washed cellulose ester-silver halide photographic emulsions which comprises the steps of preparing a dispersion of silver halide in an aqueous solution of a gelatin derivative whose presence renders the so-obtained dispersion coagulable at a pH within the range of pH 3–4.5, which derivative is selected from the group consisting of the aromatic sulfonyl chloride derivatives of gelatin, the carboxylic acid chloride derivatives of gelatin, the carboxylic acid anhydride derivatives of gelatin, the aromatic isocyanate derivatives of gelatin and the 1,4 diketone derivatives of gelatin, coagulating the dispersion of silver halide in gelatin derivative by adjusting to said pH whereby silver halide-gelatin derivative grains are formed, separating the silver halide-gelatin derivative grains thus formed from the liquid portion of the mass and incorporating the silver halide-gelatin derivative grains in an aqueous solution of a far-hydrolyzed cellulose ester, thereby forming a cellulose ester-silver halide photographic emulsion.

2,614,932

PHOTOGRAPHIC STRIPPING FILM

Gale F. Nadeau, Clemens B. Starck, and Carl F. Smith, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 1, 1949, Serial No. 85,002
4 Claims. (Cl. 95—9)



1. A photographic stripping film comprising a surface hydrolyzed cellulose triacetate temporary support, a cellulose acetate butyrate permanent support releasably attached to the hydrolyzed surface of said temporary support by means of a water-soluble cellulose acetate layer, and a photographic emulsion layer permanently attached to said permanent support.

2,614,933

SEPARATION OF PEAR WASTE INTO ITS LIQUID AND SOLID COMPONENTS

Robert P. Graham, El Cerrito, John H. Thompson, Burlingame, and Allan D. Shepherd, El Cerrito, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 6, 1951, Serial No. 214,192
4 Claims. (Cl. 99—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

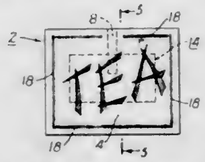
1. In the process of separating pear waste into its solid and juice fractions wherein the waste is initially treated with lime at a pH from about 6 to about 9 and at a temperature from about 60° F. to about 120° F. whereby to cause enzymatic de-esterification of the pectin in the waste and subsequent gelation of the waste, the improvement which comprises heating the so-treated waste to a temperature from about 150° F. to about 180° F. in order to promote syneresis of the gelled waste, mixing with the heated waste an amount of lime from about 1 to about 4 times the quantity previously added and separating the mixture into its solid and juice fractions.

2,614,934

TEA PACKAGING SYSTEM

Charity Audrey Trotman, Jackson Heights, N. Y.

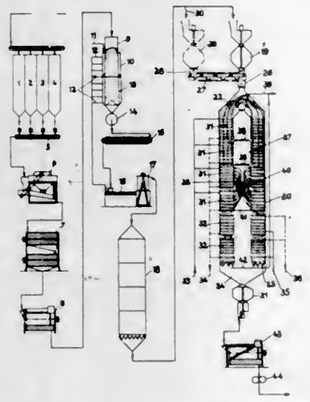
Application April 12, 1950, Serial No. 155,485
3 Claims. (Cl. 99—77.1)



1. In a tea package, a cover comprising two sheets of material arranged in superimposed re-

lation to each other, a substantially flat, soft, pervious tea leaf container of lesser dimensions than those of said cover arranged between said sheets in spaced relation to the edges thereof, flexible tabs substantially narrower than said sheets attached to and extending from adjacent edges of said sheets and between said sheets and attached to an edge of said container to position said container between said sheets and to act as a hinge to permit said sheets to be folded back upon themselves away from said container with said tabs extending between said sheets and said container to maintain the same in spaced relation, whereby the tabs may be engaged with the edge of a tea cup to suspend the container within the cup and to suspend said sheets in contiguous superimposed relationship to each other entirely outside of said cup.

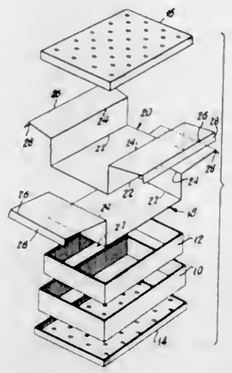
2,614,935
METHOD OF TREATING GRAIN FRUIT, ESPECIALLY BREAD GRAIN
Karl Dienst and Waldemar Dienst, Hildesheim, Germany
Application December 6, 1950, Serial No. 199,420
In Switzerland October 19, 1950
6 Claims. (Cl. 99—80)



1. A method for continuously conditioning a moving current of grain comprising the steps of passing the current through water, heating the grain for a time and at a temperature sufficient only to soften the epidermis of the kernels, then cooling the current of grain under atmospheric pressure, then decreasing the rate of flow to permit the grain to accumulate in a pool until the kernels swell, then placing said current under low steam pressure, suddenly releasing the pressure, then vacuum drying the kernels to remove the excess moisture and equalize the moisture content of the different kernels while also increasing the friability of the same, then cooling said grain under vacuum, and then subjecting the same to the action of damp air sufficiently to toughen the epidermis of the kernels to a suitable extent for milling.

2,614,936
CHEESE BANDAGE
George W. Willits, Hinsdale, Ill., assignor to Johnson & Johnson, a corporation of New Jersey
Application May 20, 1948, Serial No. 28,261
6 Claims. (Cl. 99—116)

6. The method of making cheese which includes assembling lumps of cheese curd in a hoop, placing between the lumps and the hoop a smooth, pervious non-woven bandage of textile fibers adhesively secured together, pressing the cheese to



expel whey throughout the bandage, maintaining the pressure until the cheese lumps have healed and stripping the bandage from the healed cheese.

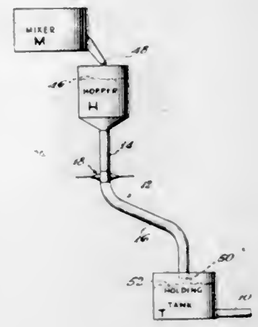
2,614,937
PLASTIC SHORTENINGS AND PROCESS OF PRODUCING SAME
Fredric J. Baur, Wyoming, and Willy Lange, Cincinnati, Ohio, assignors to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application May 28, 1949, Serial No. 96,144
20 Claims. (Cl. 99—118)

1. A process of manufacturing plastic shortenings containing an amount of hardstock consisting of triglycerides of high molecular weight saturated fatty acids materially in excess of the amount of such triglycerides obtainable by random rearrangement of all the glycerides of said shortenings, which comprises preparing a mixture comprising essentially triglycerides which contain in their molecular structure both acetyl groups and acyl groups of high molecular fatty acids, said mixture being free of non-glyceride esters whose volatility is not greater than that of diacetyl triglycerides, removing from said mixture materials more volatile than diacetyl triglycerides of said fatty acids, the combined fatty acids of the resultant mixture being at least ⅕ acetic on a molar basis, chilling substantially triacetin-free triglycerides comprising as a major component the thus purified product, and comprising a minor amount of said hardstock as a firming agent and forming same into a plastic mass.

2,614,938
METHOD FOR SELECTIVE STERILIZATION OF FOOD PRODUCTS
John J. Meehan, Chicago, Ill.
Application August 19, 1949, Serial No. 111,309
9 Claims. (Cl. 99—221)

1. The method of preserving food products by selective sterilization which includes, in the order stated, the steps of preparing the food, conveying the food through a tube, and subjecting said food to a high voltage-low ampere current while simultaneously maintaining the food product in a

substantially constant unheated condition, said current characterized by a voltage of at least



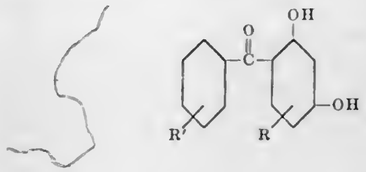
30,000 volts and an amperage not exceeding 30 milli-amps.

2,614,939
WEATHER-RESISTANT CONCRETE
Patrick J. Keating, Jr., Scarsdale, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application April 13, 1949, Serial No. 87,358
7 Claims. (Cl. 106—88)

1. A concrete of high compressive strength containing about 3–6% by volume of entrained air and having a high resistance to freezing and thawing prepared from a wet mix of Portland cement and aggregate containing an air entraining emulsion formed of water and soluble oil, the latter comprising as essential components a naphthene base distillate lubricating oil, mahogany sulfonate derived from the sulfonation of mineral lubricating oil, rosin soap and sodium naphthenate, said soluble oil being present in a quantity within a range of about .002–0.1% by weight of the Portland cement of the mix.

2,614,940
ULTRAVIOLET LIGHT ABSORBING FILM
Harlan B. Freyermuth and William O. Ney, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application December 31, 1948, Serial No. 68,624
8 Claims. (Cl. 106—125)

1. An improved ultraviolet light absorbing film comprising a film-forming plastic soluble in an aqueous medium having a pH of 5 to 9.5 and a salt of a sulfonic acid, which sulfonic acid has the formula:

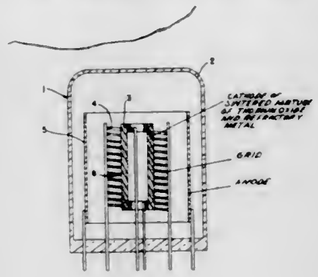


wherein one of the radicals R and R′ is hydrogen and the other is SO_3H, said salt having a pH in aqueous solution in the range 5 to 9.5.

2,614,941
STABILIZED LOWER FATTY ACID ESTER OF CELLULOSE
Gordon D. Hiatt and Robert F. Williams, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 15, 1949, Serial No. 127,516
11 Claims. (Cl. 106—183)

1. A lower fatty acid ester of cellulose having a combined sulfur content of .02–.001% to which has been added .01–.5% of a stabilizer selected from the group consisting of the formates of aluminum, barium, and magnesium.

2,614,942
THERMIONIC CATHODE
Robert Loosjes and Antonius Josephus v. Genuchten, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 25, 1949, Serial No. 112,246
In the Netherlands September 14, 1948
3 Claims. (Cl. 117—33.28)

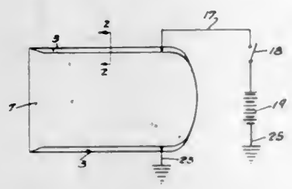


1. A cathode comprising a body composed of a sintered mixture of thorium oxide and a refractory metal, and a discrete thin layer of given thickness of thorium oxide covering said mixture of thorium oxide and refractory metal and sintered to said body.

2,614,943
METHOD OF PRODUCING MIRRORS
Alfred M. Franza, New York, N. Y.
No Drawing. Application July 11, 1949, Serial No. 104,156
1 Claim. (Cl. 117—35)

The method of making mirrors which are resistant to deterioration for many years consisting essentially of admixing 7 parts, by weight, of a filtered solution composed of 1 pound of silver nitrate and 12 ounces of 26° Baumé ammonia water in 192 ounces of distilled water, with 7 parts, by weight, of a filtered solution composed of 4 pounds of Rochelle salt in 2 gallons of distilled water and with 3 parts, by weight, of a filtered solution composed of 2 ounces of tartaric acid and 7 ounces of aqueous ammoniacal copper sulfate in 1 gallon of distilled water, the ammoniacal copper sulfate having been previously prepared by dissolving 4 ounces of crystalline copper sulfate and 6 ounces of 26° Baumé ammonia water in 1 gallon of distilled water, and applying the admixture to a previously prepared glass surface, the method being carried out at room temperature without the application of heat.

2,614,944
METHOD OF APPLYING ELECTRO-CONDUCTIVE FILMS
William O. Lytle, New Kensington, Pa., assignor to Pittsburgh Plate Glass Co., Allegheny County, Pa., a corporation of Pennsylvania
Application July 22, 1947, Serial No. 762,658
7 Claims. (Cl. 117—54)

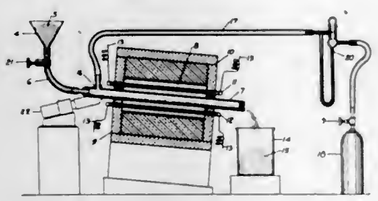


1. In the method of applying an electroconductive film to a base by contacting the base while hot with a tin compound, the improvement which comprises simultaneously contacting the base with an hydrazine during application of the film.

2,614,945
METHOD OF MAKING MOBILE STARCH POWDERS
George A. Krisan, Riverside, Ill.
No Drawing. Application September 14, 1949, Serial No. 115,765
11 Claims. (Cl. 117—100)

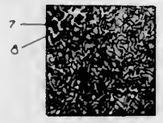
1. The method of forming a mobile powdered composition which comprises essentially intimately mixing and coating starch granules in the presence of moisture with a finely divided freshly precipitated water insoluble solid of smaller particle size than the starch granules and drying the resultant coated granles, said finely divided water insoluble solid being from the group consisting of freshly precipitated water insoluble inorganic salts and hydroxides.

2,614,946
GRANULAR SILICON CARBIDE AND METHOD OF MAKING SAME
Charles B. Proudfoot, Niagara Falls, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application March 17, 1950, Serial No. 150,156
7 Claims. (Cl. 117—100)



1. A method of making granular silicon carbide material having in loose bulk form an electrical resistance comparable to granular carbon of similar size which comprises heating granular silicon carbide to a temperature at which it will react with gaseous chlorine, passing a stream of chlorine over the hot silicon carbide to effect reaction therewith, and stopping the reaction after it has progressed only a slight distance inwardly of the granules of silicon carbide.

2,614,947
REFRACTORY ARTICLES AND METHOD OF MAKING
Albert H. Heyroth, Lewiston, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application November 3, 1948, Serial No. 58,155
10 Claims. (Cl. 117—106)



7. A method of making refractory carbon articles in which the main carbon body thereof is protected by an integral surface layer composed essentially of crystalline silicon carbide and interstitial silicon, the silicon carbide being of reticular structure and having an X-ray pattern characteristic of a cubic material, said method comprising forming a mixture comprising an acid and one of the following group: furfural, furfuryl alcohol, and a mixture of furfural and furfuryl alcohol, allowing the furfural compound and acid to react in a mold of the desired shape to form a dense body composed predominantly of carbon, removing said carbon body from the mold, drying it, and exposing said carbon body to silicon vapors at a temperature in excess of 1800° C. to cause the silicon vapors to react with the surface portions of said carbon body and convert the carbon thereof to a uniform limited depth to crystalline silicon carbide of reticulated structure having the interstices thereof filled with silicon-rich material.

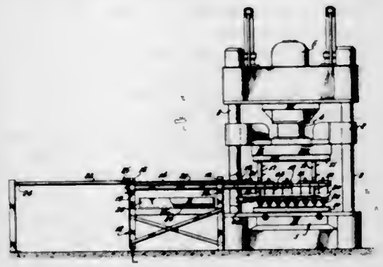
2,614,948
PRODUCING MODIFIED MACHINE ELEMENTS
Michael W. Freeman, Detroit, Mich.
No Drawing. Application March 27, 1947, Serial No. 737,735
2 Claims. (Cl. 148—6.17)

1. The method of improving the load capacity of fabricated machine elements in condition without further metal working for use under extreme pressure conditions normally causing wearing, scoring and scuffing, which method consists in chemically treating said machine elements in a treating medium consisting of a phosphorus sulfide as the essential treating agent in a caustic soda solution at a temperature from 150 to 400° F. for a period of from two minutes to six hours to modify the wearing pressure surfaces of the element in situ making it capable of withstanding extreme pressures and loads.

2,614,949
STRUCTURAL PANEL FORMING MACHINE
Carrol C. Sachs, Sunland, Calif., assignor to Alexander H. Kerr & Co., Inc., Los Angeles, Calif.
Application September 13, 1949, Serial No. 115,400
18 Claims. (Cl. 154—1.6)

1. In a panel forming and heat curing machine, a press, two mandrel assemblies movable into and out of said press, means for supporting a stack of sheets of panel forming material, pneumatic means for picking up one of the sheets from said supporting means and depositing it in the press, means for moving one of said assemblies onto the sheet material in the press, a mechanism for placing slats against the sides of the mandrels in the press, means for placing the second assembly of mandrels into the spaces between

the slats resting against the sides of the mandrels in the press, means for transferring a second sheet from said supporting means to a position



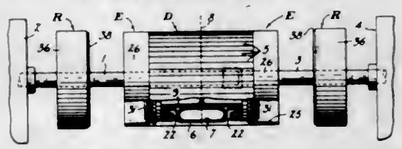
on top of the mandrel assemblies, and means for heating the press and said mandrel assemblies so as to form the sheets and slats into an integral homogeneous panel.

2,614,950
APPARATUS FOR USE IN MAKING LANTERN SLIDES
Everett H. Bickley, Narberth, Pa.
Application April 11, 1950, Serial No. 155,196
7 Claims. (Cl. 154—1.6)



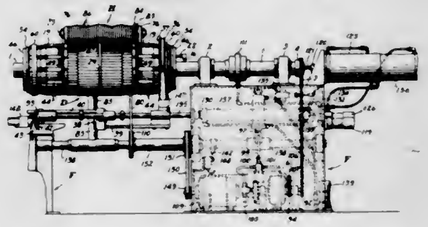
1. An apparatus for use in forming a lantern slide of the type made of two square glass plates with a picture film therebetween and held together by a square masking paper binder having two diagonally disposed notches, comprising a strip conforming substantially in length to the diagonal length of said plates, releasable clamping jaws respectively carried by opposite ends of said strip for respectively seating two diagonally disposed corners of said plates, and spring pressed means coacting with said strip for holding said plates in seated position, whereby said binder can be folded about the sides of said plates with said notches respectively straddling said jaws.

2,614,951
PNEUMATIC TIRE BUILDING DRUM
Robert Iredell, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application February 24, 1951, Serial No. 212,530
20 Claims. (Cl. 154—9)



1. In apparatus for making cord reinforced pneumatic vehicle tires by the flat band process, a band expanding drum comprising a support member having an axis of symmetry and means mounting such member for rotation about such axis, a plurality of drum forming elements arranged about the support member in side by side relation, said elements having relatively narrow outwardly directed faces substantially paralleling said axis and substantially equidistant therefrom, said elements each being mounted for bodily movement toward and away from said axis and collectively defining a substantially cylindrical work surface, an inflatable member interposed between the elements and the support member to move the elements radially simultaneously in expanding the drum surface, the elements each having a pair of spaced portions extending radially inwardly toward the rotational axis at opposite ends of the inflatable member and in embracing relation to the latter, means interlocking with the elements to limit the outward movement thereof to restrict the drum surface expansion to a predetermined diameter, and means holding the elements against the inflatable member and adapted to contract the elements and the work surface defined by the elements upon deflation of the inflatable member.

2,614,952
TIRE BUILDING MACHINE
Herman T. Kraft, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application November 2, 1950, Serial No. 193,597
33 Claims. (Cl. 154—10)

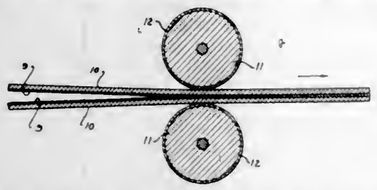


1. The method of building a pneumatic tire comprising disposing a plurality of fabric layers over a drum, disposing the tire beads over the fabric end portions on bead placing means, expanding the drum and integral clamping means out against the fabric end portions so that thin, flexible flanged portions of the bead placing means are between the inner circumference of the tire beads and the fabric end portions with the clamping means pressing out against the fabric end portions, withdrawing the flanged portions of the bead placing means from between the inner circumference of the tire beads and the fabric end portions to leave the beads resting and positioned on the end portions, lapping said fabric ends over said beads, wrapping a tire tread over said fabric layers, beating said tread sequentially across the tread face at a multiplicity of points, the drum being rotated so that the hammer blows strike progressively around the drum circumference, contracting said drum, and removing the tire casing therefrom.

2,614,953
HEAT-SEALING ELEMENT
Joseph Alfred Anglada, White Plains, N. Y., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application February 9, 1946, Serial No. 646,598
7 Claims. (Cl. 154—42)

1. An apparatus for heat-sealing a sheet to itself or other materials comprising, in combination, a heat-sealing element, means for heating the element, and a film comprising an elastic poly-

organosiloxane having a softening point above about 150° C. and a retention of compressibility at temperatures of approximately 175° C. for a period of at least 100 hours, said film being disposed in contact with the sealing surface of the heat-sealing element and having been cured for one hour at 80° C., one hour at 90° C., 2 to 4 hours at 110–130° C. and 24 hours at 150° C.

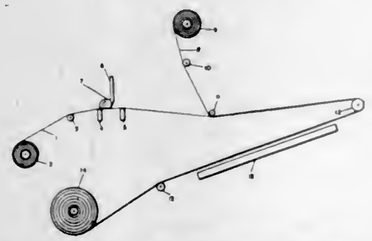


2,614,954

COMPOSITE FABRICS BONDED TOGETHER WITH POLYVINYL CHLORIDE

Henry Ewing and Albert Mellor, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

Application September 21, 1948, Serial No. 50,326
In Great Britain September 23, 1947
3 Claims. (Cl. 154—46)



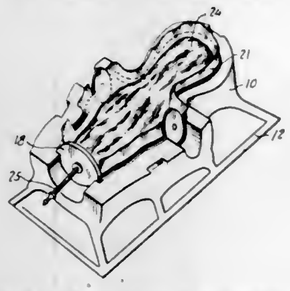
1. A composite material comprising two layers of cellulose acetate material bonded together by an interlayer in which the sole polymeric film-forming material is an acetone-insoluble homopolymer of vinyl chloride, said polymer being plasticized with 60–175%, based on the weight of said polyvinyl chloride, of a di-(monomethylcyclohexyl)-phthalate, the cycloaliphatic ester being solely responsible for the high adhesion between the cellulose acetate and the polyvinyl chloride.

2,614,955

PRESSURE MOLDING LAMINATES

Thomas M. Halsall, Coldwater, Mich., assignor to L. A. Darling Company, Bronson, Mich., a corporation of Delaware

Application January 13, 1950, Serial No. 138,494
4 Claims. (Cl. 154—110)



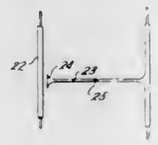
1. A method of molding a mannequin or similar display form of reenforced plastic material in a two section mold, which comprises coating the interior of each of said sections with a hardenable liquid plastic, polymerizing the plastic to obtain the coating in a soft solid state, laying up foraminous reenforcing sheet material in intimate contact with the plastic coating in each of said mold sections, with said sheet material extending beyond the edge of one of said mold sections to provide a reenforcing tab extending across the mating line between said mold sections when closed and with at least an air escape passage to the interior of said mold sections left unobstructed, placing a generally tubular uninflated bag of sheet material having a wall thickness from 0.001 inch to 0.010 inch having an inflated volume greater than the volume of said mold when closed in one of said mold sections, closing the mold, introducing fluid into the bag at low pressures not exceeding about five pounds per square inch, maintaining the pressure in the bag until the plastic material has polymerized to a definite set, and removing the fluid pressure from the bag and inserting the entire assembly into a heated oven to further cure the plastic material.

2,614,956

METHOD OF FABRICATING PLASTIC VENETIAN BLIND LADDERS

Joseph L. Hunter and Thomas A. Martin, Riverside, Calif., assignors, by mesne assignments, to Hunter Douglas Corporation, Riverside, Calif., a corporation of Delaware

Application November 4, 1947, Serial No. 784,030
2 Claims. (Cl. 154—116)



1. A method of fabricating Venetian blind ladders from plastic materials comprising: forming a pair of vertical plastic tapes with a plurality of fractional length plastic cross bars attached at longitudinally spaced intervals to the inner surfaces thereof, bringing said tapes into parallel proximity with one another, with said inner surfaces face to face and with the cross bars of one tape aligned with the cross bars of the other tape, and then bonding together the aligned ends of corresponding cross bars on the two tapes to form a complete ladder.

2,614,957

SODIUM DIMETHYL DITHIOCARBAMATE AND SODIUM SALT OF 2-MERCAPTOBENZOTHIAZOLE SYNERGISTIC FUNGICIDAL COMPOSITION

Albert A. Somerville, Carmel, N. Y., assignor to R. T. Vanderbilt Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application October 25, 1951, Serial No. 253,215
2 Claims. (Cl. 167—22)

1. An agricultural and industrial fungicide containing as active fungicidal ingredients about 99 to 75% by weight of sodium dimethyl dithiocarbamate and about 1 to 25% by weight of the sodium salt of 2-mercaptobenzothiazole, the percentages being based upon the total weight of the two aforementioned sodium compounds.

2,614,958

ZINC MERCAPTOBENZOTHIAZOLE AND FERRIC DIMETHYL DITHIOCARBAMATE FUNGICIDAL COMPOSITION

Albert A. Somerville, Carmel, N. Y., assignor to R. T. Vanderbilt Co., Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application March 28, 1949, Serial No. 84,002
1 Claim. (Cl. 167—22)

A composition of matter suitable for use as a fungicide, the active fungicidal ingredients of such composition comprising zinc mercaptobenzothiazole and ferric dimethyl dithiocarbamate in such proportions that the weight of zinc mercaptobenzothiazole is within the range from 25 to 50 per cent, based upon the weight of zinc mercaptobenzothiazole and ferric dimethyl dithiocarbamate.

2,614,959

FERRIC SALT OF MERCAPTOBENZOTHIAZOLE AND ZINC DIMETHYL DITHIOCARBAMATE FUNGICIDAL COMPOSITION

Albert A. Somerville, Carmel, N. Y., assignor to R. T. Vanderbilt Co., Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application March 28, 1949, Serial No. 84,005
1 Claim. (Cl. 167—22)

A composition of matter suitable for use as a fungicide, the active fungicidal ingredients of such composition comprising the ferric salt of mercaptobenzothiazole and zinc dimethyl dithiocarbamate, the said ferric salt and said zinc dimethyl dithiocarbamate being present in such proportions that the weight of the ferric salt is within the range from 1 to 25 per cent, based upon the weight of the ferric salt and zinc dimethyl dithiocarbamate.

2,614,960

FERRIC DIMETHYL DITHIOCARBAMATE AND BISMUTH SALT OF 5-CHLORO-2-MERCAPTOBENZOTHIAZOLE FUNGICIDAL COMPOSITION

Albert A. Somerville, Carmel, N. Y., assignor to R. T. Vanderbilt Co., Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application March 28, 1949, Serial No. 84,003
1 Claim. (Cl. 167—22)

A composition of matter suitable for use as a fungicide, the active fungicidal ingredients of such composition comprising ferric dimethyl dithiocarbamate and the bismuth salt of 5-chloro-2-mercaptobenzothiazole in such proportions as to exert a synergistic effect as regards fungicidal activity, the said composition containing from 1 to 5 per cent of the said salt, based upon the weight of the said salt and the ferric dimethyl dithiocarbamate.

2,614,961

PROPELLENT INSECTICIDE COMPRISING O-CYCLOHEXYLCYCLOHEXENONE, PYRETHRINS AND PIPERONYL BUTOXIDE

Joseph B. Dickey and Harry W. Coover, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 24, 1949, Serial No. 117,717
2 Claims. (Cl. 167—24)

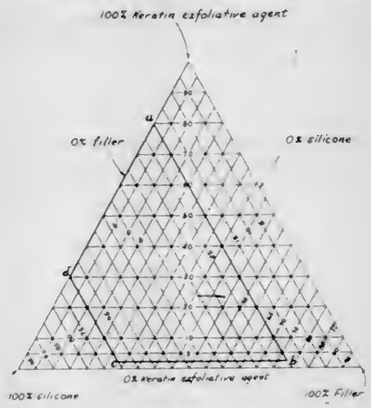
1. An insecticidal composition comprising 2% of o-cyclohexenylcyclohexanone, 0.2% of pyrethrin extract, 1% of piperonyl butoxide, 12% of petroleum distillate and 84.8% of an inert propellant therefor.

2,614,962

PHARMACEUTICAL COMPOSITION FOR USE IN THE TREATMENT OF KERATIN

William O. Elson, Chicago, Ill., assignor to The Kendall Company, Boston, Mass., a corporation of Massachusetts

Application July 16, 1949, Serial No. 105,084
11 Claims. (Cl. 167—61)



1. A keratin exfoliative pharmaceutical product comprising a backing material carrying on a surface thereof a doughy plastic composition comprising a mixture of a silicone having a viscosity between 10^2 and 10^6 centistokes and a solid acidic keratin exfoliating agent.

2,614,963

KERATIN EXFOLIATIVE COMPOSITIONS

William O. Elson, Chicago, Ill., assignor to The Kendall Company, Boston, Mass., a corporation of Massachusetts

No Drawing. Application January 10, 1951, Serial No. 205,435
21 Claims. (Cl. 167—61)

1. A keratin exfoliative composition comprising an admixture of a substantially non-volatile non-toxic viscous organic film-forming vehicle and, as an active exfoliating agent, an organic acid selected from the group consisting of aromatic acids having more than 7 carbon atoms, heterocyclic acids and mono- and di-carboxylic aliphatic acids, which have acid factors of from 1.5 to 3.5 and lipoid coefficients not greater than 5, said agent being included in said composition in an amount providing as free acid from 0.5 to 80% by weight based upon the total weight of the non-volatile ingredients of said composition.

2,614,964

PROCESS OF PRODUCING GLYCERINE

Benjamin T. Brooks, Old Greenwich, Conn., assignor to The Glycerine Corporation of America, Inc., New York, N. Y., a corporation of New York

No Drawing. Application January 3, 1949, Serial No. 69,030
1 Claim. (Cl. 195—38)

The method of producing glycerine from molasses which comprises the steps of diluting the molasses with approximately 3 times its weight of water, adding an alkaline carbonate to the

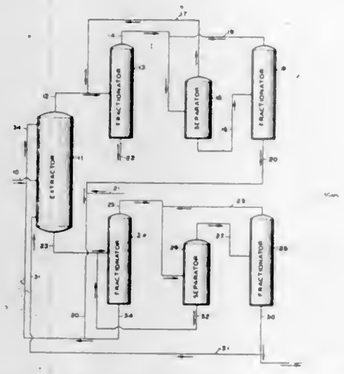
molasses in amount only sufficient to produce a pH value of about 7 5, fermenting the resulting solution with yeast, filtering off the yeast, thereafter distilling the residue, fortifying the undistilled solution with undiluted molasses, repeating the steps of fermenting, filtering and distilling off alcohol until the undistilled solution remaining contains at least 15% of glycerine, thereafter dialyzing the undistilled concentrate, and separating glycerine from the dialysate.

2,614,965

SOLVENT EXTRACTION OF HYDROCARBONS WITH FLUORINATED ALIPHATIC CARBOXYLIC ACIDS

Forrest N. Ruehlen, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 28, 1950, Serial No. 176,466
13 Claims. (Cl. 196—14.3)



1. A method for the liquid phase separation of hydrocarbons which comprises solvent extracting a mixture of hydrocarbons with at least one aliphatic carboxylic acid in which the aliphatic group is completely fluorinated.

2,614,966

SODIUM REFINING OF PETROLEUM OILS

Byron M. Vanderbilt, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 1, 1950, Serial No. 159,380
8 Claims. (Cl. 196—23)

1. The process of improving the oxidation stability of petroleum oils in which the oil to be treated is maintained at a temperature above about 150° C. and is contacted in liquid phase with about 0.25 to 2.0% of finely divided sodium and about 5 to 30 mol per cent of an activator based on the quantity of sodium, said activator being a compound selected from the group consisting of ethers and ketones.

2,614,967

PETROLEUM OIL REFINING PROCESS

Byron M. Vanderbilt and Anthony H. Gleason, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 28, 1949, Serial No. 107,383
7 Claims. (Cl. 196—24)

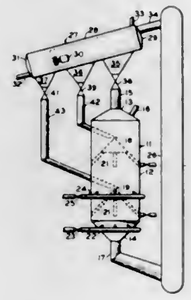
1. A process for improving the oxidation stability and engine cleanliness characteristics of a cracked gasoline comprising the steps of separately adding to the gasoline about 1% by weight of a metal selected from the class consisting of sodium, potassium, and lithium and about 5 to 25 molar percent of an alcohol based on the amount of the said metal, said alcohol being selected from the group consisting of secondary and tertiary alcohols of less than 7 carbon atoms, mixing the gasoline containing the metal and the alcohol for a period of ten minutes to two hours at a temperature above 70° C., and thereafter separating the gasoline from sedimentatious material.

2,614,968

PEBBLE HEATER AND METHOD OF CONVERTING HYDROCARBONS

Russell K. Simms, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 12, 1949, Serial No. 132,469
10 Claims. (Cl. 196—55)



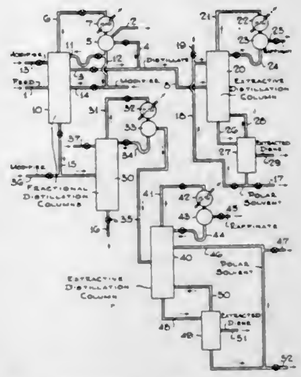
7. A method for subjecting hydrocarbons to different reaction temperatures in a single reaction zone which comprises introducing a first portion of relatively large diameter pebbles into the upper end portion of a reaction zone at a temperature within the range of between 1200° F. and 2000° F.; introducing at least one other portion of pebbles of a diameter smaller than said first portion into said reaction zone at a point intermediate its upper end portion and its lower end portion and at a temperature within the range of between 600° F. and 1200° F.; introducing a hydrocarbon fluid into the lower portion of said reaction zone; reacting said hydrocarbon fluid in the presence of a mixture of said pebbles at a temperature within the range of between 600° F. and 1200° F.; passing resulting reaction products upwardly in said reaction zone into contact with said larger pebbles at a temperature within the range of between 1200° F. and 2000° F.; reacting said reaction products in the presence of said hotter pebbles; removing resulting reaction products from the upper portion of said reaction zone; gravitating said pebbles from the lower portion of said reaction zone, elevating said pebbles to a single pebble heating zone; heating said pebbles in said pebble heating zone; separating said smaller pebbles from said larger pebbles in said pebble heating zone and gravitating them from said pebble heating zone to said intermediate point of said reaction chamber upon reaching a temperature within the range of between 600° F. and 1200° F.; further heating said larger pebbles in said pebble heating zone to a temperature within the range of between 1200° F. and 2000° F.; and gravitating said larger pebbles from said pebble heating zone into the upper end portion of said reaction zone.

2,614,969

PROCESS FOR SEPARATING C_5 DIOLEFINS

Charles E. Morrell, Westfield, and Lester M. Welch, Madison, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application October 22, 1948, Serial No. 56,042
7 Claims. (Cl. 202—39.5)



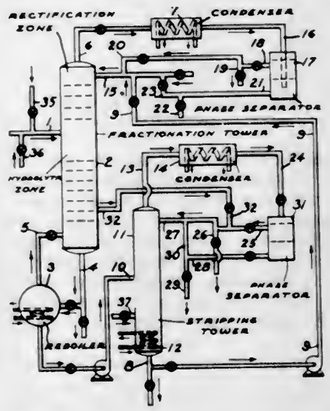
1. In the separation and purification of isoprene from a mixture containing lower boiling pentenes and trimethylethylene, the improvement, which comprises fractionally distilling an isoprene-rich cut containing the lower boiling pentenes from the mixture with admixed isopentane so as to leave the trimethylethylene in a residual portion of the mixture, said isopentane being admixed in a proportion of at least 40 mole % of liquid undergoing fractional distillation, and thereafter fractionally distilling the lower boiling pentenes from the isoprene-rich cut in the presence of a polar solvent which extracts the isoprene.

2,614,970

EXTRACTIVE DISTILLATION OF ALCOHOL-ALDEHYDE SOLUTIONS

Charles E. Morrell, Westfield, N. J., Joseph Stewart, Brooklyn, N. Y., and Carl S. Carlson, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application August 26, 1949, Serial No. 112,578
16 Claims. (Cl. 202—39.5)



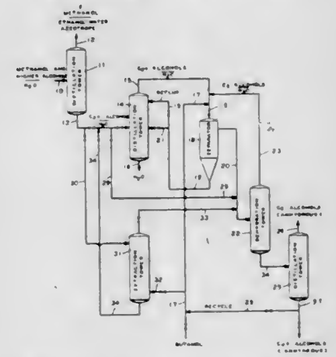
1. A method for the separation and recovery of aldehydes and alcohols from a mixture of oxygenated compounds obtained by the oxo reaction, said mixture containing close-boiling oxygenated components including aldehydes, alcohols, acetals, hemiacetals, and unsaturated ethers, which comprises subjecting said mixture to a simultaneous hydrolysis and extractive distillation using as an extraction solvent a dilute aqueous acidic solution having a pH in the range of 1 to 5 and containing in solution at least 20% by weight of a water-soluble salt of a mononuclear aromatic sulfonic acid, whereby the acetals, hemiacetals, and unsaturated ethers are hydrolyzed, those components which are relatively more volatile in the presence of the aqueous solvent are separated from those components which are relatively less volatile.

2,614,971

DEHYDRATION OF ALCOHOLS

William P. Burton, Orange, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application April 29, 1948, Serial No. 23,891
14 Claims. (Cl. 202—42)



11. A method for dehydrating an aqueous solution comprising C_3 and higher alcohols which comprises contacting said aqueous solution with a relatively water-insoluble alcohol having at least 4 carbon atoms per molecule as a treating agent, whose water-azeotrope will form two phases upon condensation, in an amount sufficient to form a liquid extract comprising C_3 and higher alcohols and a minor portion of water present in said aqueous solution and a liquid raffinate comprising C_3 alcohols and a major portion of water present in said aqueous solution, dehydrating said extract, and recovering substantially water-free C_3 and higher alcohols from said dehydration step.

2,614,972

PURIFICATION OF SECONDARY BUTYL ACETATE

William Selby Harney, Jr., Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 28, 1948, Serial No. 57,131
2 Claims. (Cl. 202—51)

1. A process for purifying sec-butyl acetate contained in a mixture with sec-butyl alcohol and water, said mixture containing 50 to 85 weight percent acetate, 5 to 35 weight percent alcohol and 2 to 10 weight percent water which comprises distilling the mixture in a distillation zone under a super-atmospheric pressure of 10 to 75 p. s. i. g., removing and condensing a two-phase distillate consisting of an upper organic layer comprising substantially sec-butyl acetate

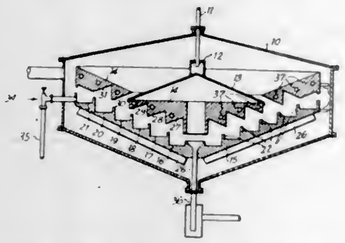
and sec-butyl alcohol, and a lower aqueous layer comprising substantially water, removing the lower aqueous layer from the system, refluxing the upper organic layer to the distillation zone, continuing the distillation to remove from the distillation zone a second distillate comprising substantially sec-butyl alcohol, and a third distillate consisting of sec-butyl acetate substantially free of water and sec-butyl alcohol.

2,614,973

SHORT PATH FRACTIONATING STILLS

Godfrey Burrows, Sale, England, assignor to Metropolitan-Vickers Electrical Company Limited, London, England, a company of Great Britain

Application December 10, 1948, Serial No. 64,575
In Great Britain December 19, 1947
4 Claims. (Cl. 202—205)



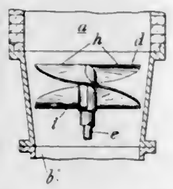
1. A short path fractionating still, comprising an evaporating pan having a series of concentric channels arranged in step-like formation, a plurality of radial barriers dividing each of said channels into a plurality of arcuate-shaped cells the cells in adjacent channels being provided with overflow outlets which are relatively staggered circumferentially of the channels, and a condenser having a series of inclined concentric condensing surfaces positioned one over each channel of the evaporating pan and each having discharge means so constructed as to deliver condensate from the cells of one channel to respective individual cells of the next higher channel only at points remote from the outlets of said cells.

2,614,974

DISCHARGE DEVICE FOR VERTICAL RETORTS

Frederick Joseph West and Ernest West, Manchester, England, assignors to Wests' Gas Improvement Company Limited, Manchester, England, a British company

Application April 19, 1949, Serial No. 88,446
In Great Britain April 21, 1948
1 Claim. (Cl. 202—262)



In a vertical retort for the continuous carbonisation of coal and the like in which a revolving coke extractor upon a vertical axis is arranged at the base of the retort to support the charge in the retort and to effect extraction therefrom, the improvement which comprises the formation of the extractor as a multistart helix with the leading edges substantially radially disposed at the top surface of the extractor and the rear edge of each portion of a helix extending below and behind the leading edge of the next succeeding helix portion, the overlapping part of the said rear edge being substantially horizontal and extending to such a distance beyond the said leading edge above, that the coke can rest on the horizontal part at its natural angle of response to obviate self-discharge; the axial of said extractor being relatively short as compared with its diameter.

2,164,975

ELECTROPLATING OF ZINC AND ELECTROLYTE THEREFOR

Allan E. Chester, Highland Park, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application January 26, 1951, Serial No. 208,079
9 Claims. (Cl. 204—55)

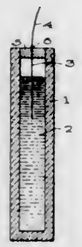
1. An aqueous acid zinc sulfate plating bath comprising an acid zinc sulfate electrolyte and a reaction product of thiourea, zinc oxide and an aldonic acid.

2,614,976

ELECTRODE FOR DETERMINING CATIONIC ACTIVITY

Homer W. Patnode, Hampton Township, Allegheny County, and Malcolm R. J. Wyllie, Indiana Township, Allegheny County, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Continuation of applications Serial No. 75,924, February 11, 1949, and Serial No. 95,814, May 27, 1949. This application October 19, 1951, Serial No. 252,146
15 Claims. (Cl. 204—195)



2. An electrode comprising a membrane of a chemically-inert electrically-insulating moldable plastic carrying uniformly disseminated throughout the body thereof from 5 per cent to 30 per cent of a finely-divided cationic-exchange material, said membrane forming at least a part of the wall of an inert insulating container, an electrolyte in said container and in contact with said membrane, and means for electrically contacting said electrolyte.

13. A cation exchanging membrane comprising 80 per cent to 50 per cent by weight of a finely-divided water-insoluble sulfonated phenolic formaldehyde cation-exchange resin substantially uniformly distributed throughout and bonded together with polystyrene which forms substantially the remainder of the composition.

2,614,977

MERCURY CATHODE ELECTROLYTIC CELL

William Wood, Hoole, Chester, and Charles Edward Bowen, Shotton, Chester, England, assignors of one-third to The International Electrolytic Plant Company Limited, Sandycroft, Chester, England, a British corporation

Application June 1, 1949, Serial No. 96,514
In Great Britain June 8, 1948
8 Claims. (Cl. 204—219)



1. In a mercury cathode electrolytic cell, an elongated trough, at least one tubular conductor within said trough and adjacent the trough bottom and including means for connection to the negative pole of a current source, said conductor extending longitudinally of said trough for at least the major part of the length thereof, a mercury inlet near one end of said trough, a mercury outlet near the other end of said trough closely above said conductor, said conductor being exposed substantially throughout its entire surface interiorly of said trough, except where supported, to contact with said mercury flowing through said trough, the ends of said conductor projecting from said trough and including means for their connection to a source of a circulating fluid, and an anode above the level of said mercury outlet.

2,614,978

MECHANICAL FOAM FLUID FORMULATION FOR ALCOHOL FIRES

Richard L. Tuve, Silver Spring, Md., and Henry B. Peterson, Washington, D. C.

No Drawing. Application March 26, 1948, Serial No. 17,362
11 Claims. (Cl. 252—8.05)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A composition of matter capable of yielding a stable foam on agitation with water which comprises hydrolyzed protein and an amount of whole egg protein up to about 3 parts by weight for each part by weight of the hydrolyzed protein and sufficient to substantially increase the stability of the foam.

2,614,979

DRILLING FLUID

William M. Hutchinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application August 18, 1947, Serial No. 769,310
17 Claims. (Cl. 252—8.5)

5. A water base drilling mud comprising in combination sufficient water to maintain the mud as a fluid, sufficient clayey material to form a filter cake on the wall of the well, and a water dispersible reaction product of a strong organic base with an acidic cellulosic compound selected from the group consisting of oxycellulose, carboxymethylcellulose ether, carboxyethylcellulose ether, carboxypropylcellulose ether, cellulose acid sulfate, and cellulose acid sulfonate in an amount sufficient to reduce the water loss due to filtration through said filter cake without increasing the viscosity of said well drilling mud to such an extent that it cannot be circulated.

2,614,980

PROCESS FOR INHIBITING CORROSION IN OIL WELLS

Melba L. Lytle, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application April 3, 1950, Serial No. 153,767
10 Claims. (Cl. 252—8.55)

1. A method for reducing the corrosiveness to corrodible ferrous metal of a corrosive petroliferous well fluid including moisture and hydrogen sulfide which comprises introducing into said fluid a corrosion inhibiting amount of the reaction product of a fatty material selected from the group consisting of fatty acids having no less than 12 and no more than 26 carbon atoms per molecule and a fatty oil containing fatty acid radicals having no less than 12 and no more than 26 carbon atoms with an amine selected from the group consisting of alkyl and alkanol amines having a total of no less than 6 and no more than 18 carbon atoms per molecule, the reaction product being formed at a temperature in the range of 300° to 550° F. and in the presence of an alkaline reacting catalyst selected from the group consisting of alkali metal hydroxide and alkali metal carbonate, the weight ratio of fatty material to amine being in the range of 0.5:1.0 to about 5.0:1.0.

2,614,981

PROCESS FOR INHIBITING CORROSION IN OIL WELLS

Melba L. Lytle, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application April 3, 1950, Serial No. 153,768
12 Claims. (Cl. 252—8.55)

1. A method for reducing the corrosiveness to corrodible ferrous metal of a corrosive petroliferous well fluid including moisture and carbon dioxide which comprises introducing into said fluid a corrosion inhibiting amount of the reaction product of a fatty material selected from the group consisting of fatty acids having no less than 12 and no more than 26 carbon atoms per molecule and a fatty oil containing fatty acid radicals having no less than 12 and no more than 26 carbon atoms with an amine selected from the group consisting of alkyl and alkanol amines having a total of no less than 6 carbon atoms in the molecule, the reaction product being formed at a temperature in the range of 300° to 550° F. and in the presence of an alkaline reacting catalyst selected from the group consisting of alkali metal hydroxide and alkali metal carbonate, the weight ratio of fatty material to amine being in the range of 0.5:1 to about 5.0:1.

2,614,982

METHOD OF PREVENTION OF CORROSION IN WELLS

Joseph A. Caldwell and Melba L. Lytle, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application April 3, 1950, Serial No. 153,769
8 Claims. (Cl. 252—8.55)

1. A method for reducing the corrosiveness to corrodible ferrous metal of a corrosive petroliferous well fluid including moisture and hydrogen

sulfide which comprises introducing into said fluid a corrosion inhibiting amount of a reaction product obtained by reacting a fatty material selected from the group consisting of fatty acids having at least 12 and no more than 26 carbon atoms per molecule and fatty oils containing fatty acid radicals having no less than 12 and no more than 26 carbon atoms in the radical with a polyethylene glycol containing at least 3 and no more than 30 ethanoxy groups at a temperature in the range of 300° to 550° F. for a period of from 1 to 5 hours in the presence of an alkaline reacting catalyst selected from the group consisting of alkali metal hydroxide and alkali metal carbonate, the weight ratio of fatty material to polyethylene glycol being in the range of 1:1 to about 3:1.

2,614,983

METHOD OF PREVENTION OF CORROSION IN WELLS

Joseph A. Caldwell and Melba L. Lytle, Houston, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application April 3, 1950, Serial No. 153,770

5 Claims. (Cl. 252—8.55)

1. A method for reducing the corrosiveness to corrodible ferrous metal of a corrosive well fluid including moisture and carbon dioxide which comprises introducing into said fluid a corrosion inhibiting amount of a reaction product obtained by reacting a fatty material selected from the group consisting of fatty acids having at least 12 and no more than 26 carbon atoms per molecule and fatty oils containing fatty acid radicals having no less than 12 and no more than 26 carbon atoms with a polyethylene glycol containing at least 3 and no more than 30 ethanoxy groups in the presence of an alkaline reacting catalyst selected from the group consisting of alkali metal hydroxide and alkali metal carbon for a period of time in the range of 1 to 5 hours at a temperature in the range of 300° to 550° F., the weight ratio of fatty material to polyethylene glycol being in the range of 1:1 to about 3:1.

2,614,984

TEXTILE DRESSING MATERIALS

Edward Boaden Thomas, Spondon, near Derby, and Horace Finningley Oxley, Charmouth, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application March 5, 1949, Serial No. 79,904. In Great Britain March 17, 1948

8 Claims. (Cl. 252—8.75)

1. A textile dressing agent for lubricating textile materials and rendering them difficult to electrify, said agent consisting essentially of a solution of the diethylamine salt of lauryl sulphonic acid in a lubricating oil.

2,614,985

LUBRICATING COMPOSITION CONTAINING BORIC ACID

David L. Cook, El Cerrito, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware

No Drawing. Application October 25, 1951, Serial No. 253,223

5 Claims. (Cl. 252—18)

1. A lubricating composition comprising at least 90% of a mineral lubricating oil containing dispersed therein from about 0.05 to about 2 wt. per cent of boric acid.

2,614,986

GREASES BASED ON FINELY DIVIDED INORGANIC MATERIAL

Alan Beerbower, Baltimore, Md., and Arnold J. Morway, Clark, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 12, 1948, Serial No. 59,748

5 Claims. (Cl. 252—25)

1. A solid grease composition consisting essentially of a mineral base lubricating oil of 35 to 1000 S. S. U. viscosity at 100° F. thickened to a grease consistency with 10 to 25% by weight of a finely divided inorganic material having a bulk density of less than 2 lbs./gallon in its normal finely divided dry condition, said inorganic material being selected from the group consisting of magnesium oxide and magnesium carbonate.

2,614,987

GREASE COMPOSITIONS

John L. Dreher and Crawford F. Carter, Concord, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application December 7, 1950, Serial No. 199,725

8 Claims. (Cl. 252—33.6)

1. A grease composition consisting essentially of a major portion of a lubricating oil, a thickening agent, and from about 0.1% to about 5%, by weight, of a polyvalent metal dithiocarbamate, and from about 0.01% to about 2%, by weight, of a dihydroxyanthraquinone.

2,614,988

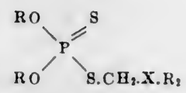
HYDROCARBON OILS CONTAINING S-ALKOXYMETHYL - O,O' - DIALKYLDITHIOPHOSPHATES

Edwin O. Hook, Old Greenwich, Conn., and Philip H. Moss, Seldovia, Territory of Alaska, assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

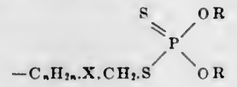
No Drawing. Original application March 26, 1948, Serial No. 17,396. Divided and this application August 18, 1949, Serial No. 111,083

6 Claims. (Cl. 252—46.6)

6. A hydrocarbon oil composition comprising a major amount of a hydrocarbon oil having dissolved therein, in a sufficient amount to prevent deterioration by oxidation, a condensation product having the formula



in which X is a member of the group consisting of oxygen and sulfur, each R is a member of the group consisting of aliphatic and aromatic radicals, and R_2 is a member of the group consisting of aliphatic radicals and dithiophosphoric acid triesters of the formula



in which X and R are as defined above and n is a whole number.

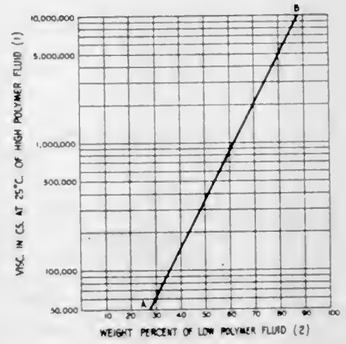
2,614,989

HIGH VISCOSITY LOW FREEZING ORGANOSILOXANE FLUIDS

Melvin J. Hunter and Herbert J. Fletcher, Midland, Mich., assignors to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

Application October 18, 1949, Serial No. 122,044

4 Claims. (Cl. 252—49.6)



1. A siloxane fluid having a viscosity of at least 12,500 cs. and a freezing point below −56° C. which siloxane is composed of a copolymeric organopolysiloxane (1) having a viscosity of at least 50,000 cs. at 25° C. and a copolymeric siloxane fluid (2) having a viscosity of from 20 cs. to 125 cs. at 25° C., the amount of fluid (2) being at least 18 percent by weight based upon the weight of the total siloxanes and lying to the left of line AB in the accompanying drawing, fluid (1) having a composition of from 92 to 98 mol percent dimethylsiloxane and from 8 to 2 mol percent of a siloxane of the type RR'SiO where R is selected from the group consisting of alkyl radicals of from 1 to 4 carbon atoms and monocyclic aryl radicals and R' is selected from the group consisting of alkyl radicals of from 2 to 4 carbon atoms and monocyclic aryl radicals, the low viscosity fluid (2) having a degree of substitution of from 1.9 to 2.1 organic radicals per silicon atom and a composition of from 80 to 98 mol percent dimethylsiloxane and from 2 to 20 mol percent siloxane units selected from the group consisting of $RR'SiO$, $R'SiO_{3/2}$ and $R_3SiO_{1/2}$, there being at least 2 and not more than 15 mol percent of at least one of the units containing R' and from 0 to 10 mol percent $R_3SiO_{1/2}$ units, where R is selected from the group consisting of alkyl radicals of from 1 to 4 carbon atoms and monocyclic aryl radicals and R' is selected from the group consisting of alkyl radicals having from 2 to 4 carbon atoms and monocyclic aryl radicals.

2,614,990

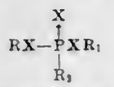
LUBRICATING COMPOSITION OF MATTER

Denham Harman, Berkeley, and Roy E. Thorpe, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

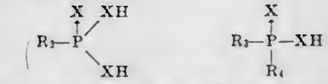
No Drawing. Application October 11, 1949, Serial No. 120,828

19 Claims. (Cl. 252—49.9)

1. A composition of matter comprising a major amount of a neutral liquid vehicle and a minor amount sufficient to impart extreme pressure properties to said vehicle of a mixture of phosphorus compounds having the general formula (1)



wherein X is an element from the group consisting of O, S, Se and Te; R and R_1 are organic radicals selected from the group consisting of alkyl, aryl, alkaryl and aralkyl, and R_2 is a halogenated organic radical containing from 1 to 6 carbon atoms selected from the group consisting of polyhalogenated alkyl, polyhalogenated aryl, polyhalogenated alkaryl, and polyhalogenated aralkyl radicals, said halogen being not more than 4 carbon atoms removed from the phosphorus atom and (2) an organic phosphorus compound having the formulas:



wherein X is the same as defined above, wherein R_3 and R_4 are the same as R_2 defined above but wherein the halogen is selected from the group consisting of chlorine and bromine and wherein said mixture of the compounds represented by (1) and (2) are present in the ratio of 1:2 to 10:1.

2,614,991

STEAM ENGINE LUBRICANTS

Jones I. Wasson, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 30, 1950, Serial No. 152,979

1 Claim. (Cl. 252—56)

An emulsible, soap-free steam cylinder oil composition consisting essentially of about 87% by weight of predominantly Mid-Continent mineral lubricating oil of about 135 to 300 S. S. U. viscosity at 210° F., about 10% of a resinous propane precipitated Pennsylvania type paraffinic petroleum oil residue of substantially higher viscosity, and about 3% of tallow.

2,614,992

PAINT STRIPPING COMPOSITIONS

Abraham Mankowich, Darlington, Md., assignor to the United States of America as represented by the Secretary of the Army

No Drawing. Application November 30, 1950, Serial No. 198,470

7 Claims. (Cl. 252—137)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

4. A paint stripping composition comprising from about 2.5 to 10 per cent by weight of dodecyl diethylene triamine and up to 15 per cent by weight of a non-ionic alkylated aryl polyethylene glycol ether surface active agent the remainder of said composition consisting essentially of a mixture consisting of a major proportion of trisodium phosphate and the balance being sodium trisilicate.

2,614,993

PREPARATION OF SILICA SOLS FROM SILICON METAL

Victor I. Montenyohl, West Chester, Pa., and Carl M. Olson, Newark, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 10, 1949, Serial No. 109,622

6 Claims. (Cl. 252—313)

1. A process for the production of silica sols through reaction of silicon with water which

comprises effecting said reaction while removing silica coating as formed from the silicon reactant by subjecting said silicon to attrition milling while it is submerged in an aqueous solution of a weak base selected from the group consisting of from 1% to 28% by weight of ammonia and from 1% to 35% by weight of amines.

2,614,994

PREPARATION OF SILICA SOLS FROM FINELY DIVIDED SILICON

Joseph H. Balthis, Mendenhall, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 16, 1950, Serial No. 138,935

4 Claims. (Cl. 252—313)

1. A process for obtaining aqueous silica sols which comprises contacting at a temperature of from 0° to 150° C. finely divided silicon metal with an aqueous solution of a water-soluble amine having a basicity, as expressed by its pK_a value at 20° to 25° C., between 6 and 12, and continuing the reaction until a colloidal suspension of silicon dioxide in the aqueous reaction medium is obtained, said amine being present during the reaction in amount of from 0.05 to 15 moles of amine per gram-atom of silicon, and being contained in said aqueous solution in a concentration of from 0.25% to 40% by weight of the water therein.

2,614,995

SILICA SOLS AND PREPARATION THEREOF FROM METALLIC SILICON

Joseph H. Balthis, Mendenhall, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 13, 1951, Serial No. 231,443

11 Claims. (Cl. 252—313)

1. A process for obtaining aqueous silica sols which comprises contacting finely-divided silicon metal with water which contains from about 1% to 35% by weight of ammonia and which is present in amount providing at least 0.1 gram-mol of ammonia per gram atom of silicon, and continuing the reaction at a temperature of 0° C. to 200° C. until a colloidal solution of silicon dioxide in the aqueous reaction medium is obtained.

6. An aqueous colloidal solution of silica comprising discrete spheroidal amorphous particles having an average diameter of from 8 to 35 millimicrons, the particles containing pores having a surface area at least equal to the external surface area of the particles as calculated from the surface area average particle diameter determined from electron micrographs.

2,614,996

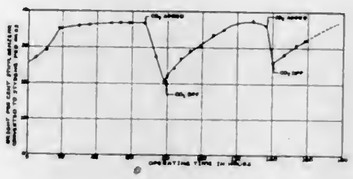
PREPARATION OF A SURFICIALLY CALCINED NATURAL CARBONATE CATALYST

Ben Bennett Corson and George Arthur Webb, Pittsburgh, Pa., assignors to Koppers Company, Inc., a corporation of Delaware

Original application December 31, 1943, Serial No. 516,352. Divided and this application September 25, 1947, Serial No. 776,130

2 Claims. (Cl. 252—443)

1. A process for preparing a dehydrogenation catalyst capable of converting to styrene at least 30 percent of the ethylbenzene passed over it at 650° C. in the presence of an excess of steam and at a contact time of approximately one second which comprises heating to a temperature in the range of about 600° to 650° C. a mass of granules of a naturally occurring ferruginous limestone which shows a loss of about 30 to 45 percent by weight upon calcination to a constant weight, removing from said mass carbon dioxide evolved by the thermal decomposition of said limestone by flowing at least one gas selected



from the group consisting of steam and dehydrogenatable hydrocarbons through said mass until a surficial layer of decarbonated material is formed on each granule, and discontinuing removal of carbon dioxide from said mass prior to decarbonation of the major portion of each granule, said major portion constituting the core of said granule.

2,614,997

VINYL ESTERS OF CHEMICALLY STABILIZED ROSINS AND POLYMERS THEREOF

John C. Robinson, Jr., and Walter S. Ropp, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 16, 1950, Serial No. 185,324

13 Claims. (Cl. 260—27)

1. A vinyl ester of a chemically stabilized rosin acid material, said chemically stabilized rosin acid material being selected from the group consisting of hydrogenated rosins, dehydrogenated rosins, hydrogenated rosin acid fractions, and dehydrogenated rosin acid fractions, said hydrogenated rosin acid materials being at least 40% saturated with hydrogen and having a content of abietic-type resin acids of not over 10%, said dehydrogenated rosin acid materials having a dehydroabietic acid content of at least 40% and having an abietic-type resin acid content of not over 10%, said rosin acid fractions being the fractions obtained by removing the neutral bodies from rosins.

2,614,998

LOW WATER-LOSS CEMENT SLURRY

Peggy J. Lea, Merriam, Kans., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application September 19, 1949, Serial No. 116,628

18 Claims. (Cl. 260—29.6)

1. A cement capable of forming a fluid slurry when mixed with water, said cement comprising a dry hydraulic cement mixed with from 0.1 to 3 weight per cent based on said dry hydraulic cement of a water-soluble resin selected from the group consisting of water-soluble salts of alkali metal, alkaline earth metal, magnesium, ammonium, and organic bases more basic than ammonia, of polyacrylic acid and carboxyl-containing polyacrylamide.

2,614,999

SOLUTIONS OF POLYAMIDES

John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 22, 1949, Serial No. 117,263

5 Claims. (Cl. 260—30.6)

3. A solution of 20 to 30 parts by weight of a hexamethylene diamine-adipic acid polyamide in 100 parts by weight of a solvent consisting of 40–50% of 85% phosphoric acid and 60–50% of an oxygen-containing lower aliphatic liquid compound in which the number of carbon atoms does not exceed five, selected from the group consisting of: alcohols having the formula ROH, in which R is selected from the group consisting of alkyl and hydroxyalkyl; ketones; ethers having the formula R'OR'', in which R' and R'' are alkyl groups which may be identical; and ether alcohols having the formula ROR'''OR'''', in which R is selected from the group consisting of alkyl and hydroxyalkyl; R''' is an alkylene radical, and R'''' is selected from the group consisting of hydrogen and alkyl, the solution being characterized by a stable viscosity.

2,615,000

SULFONAMIDES FORMED BY AMIDATION OF CHLOROSULFONATED POLYETHYLENE

Harris Walton Bradley, Bellefonte Heights, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 2, 1949, Serial No. 102,929

7 Claims. (Cl. 260—31.2)

7. A lacquer comprising polyethylene sulfonamide as film-forming agent and, as solvent therefor, a liquid aliphatic compound selected from the group consisting of the lower aliphatic esters and lower aliphatic ketones.

2,615,001

ABRASION RESISTANT WIRE ENAMELS

Edgar Q. Bullock, Jr. and Fred J. Emig, Chicago, Ill., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 27, 1949, Serial No. 73,228

3 Claims. (Cl. 260—33.4)

1. A wire enamel comprising in parts by weight a compatible mixture of one part of a heat-hardenable soluble phenol-formaldehyde resin, from 1 to 19 parts of a polyvinyl formal resin and from 0.1% to 0.5% of a polymer of ethylene based on the resin solids of the composition, the said polymer of ethylene being solid at room temperature with a structural formula of $(CH_2)x$ and showing a crystalline structure by X-ray diffraction.

2,615,002

POLYAMIDE MOLDING POWDER

Marvin Joseph Hurwitz, Brooklyn, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 26, 1949, Serial No. 117,931

11 Claims. (Cl. 260—33.4)

1. A molding powder comprising a synthetic linear polyamide having an intrinsic viscosity of at least 0.4, uniformly plasticized solely with a plasticizer consisting of at least 83%, by weight of a saturated aliphatic diol having a boiling point above 150° C., a molecular weight between 75 and 220, and a maximum of 9 atoms in a straight chain between the two hydroxyl groups, the proportion of plasticizer being such that said molding powder contains 15% to 100% by weight of said polyamide, of said diol.

2,615,003

COMPOSITION COMPRISING A THERMOSETTING RESIN AND A DIHYDROXY ALKANE CONTAINING 6–10 CARBON ATOMS

Tzeng Jiueq Suen and Arthur M. Schiller, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 6, 1951, Serial No. 250,189

6 Claims. (Cl. 260—33.4)

1. A composition of matter comprising a thermosetting resin selected from the group consisting of an urea-formaldehyde resin and a melamine-formaldehyde resin, and, as a flow-promoter therefor, 2–15% by weight of a dihydroxy alkane containing from 6–10 carbon atoms.

2,615,004

MIXED DILUENT SYSTEM FOR COPOLYMERIZATION OF STYRENE AND ISOBUTYLENE

Gabriel E. Jasper, Plainfield, and Lester Marshall Welch, Madison, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 30, 1950, Serial No. 182,416

6 Claims. (Cl. 260—33.6)

1. A process for the preparation of substantially completely mineral oil soluble styrene-isobutylene copolymers having molecular weights within a range of from about 10,000 to 30,000 Staudinger which comprises copolymerizing a mixture of styrene and isobutylene containing about 0.77 to 1.63 mols of styrene per mol of isobutylene in the presence of a solution of a Friedel-Crafts catalyst at a temperature between about −100° C. to −30° C. and in the presence of about 2 to 6 volumes of a mixed diluent, said mixture consisting of about 3 to 8 parts by volume of an inert aliphatic hydrocarbon solvent containing from 2 to 6 carbon atoms per molecule and about 1 part by volume of a chlorinated aliphatic hydrocarbon containing from 1 to 4 carbon atoms per molecule, maintaining a conversion level between 30% and 60% and recovering the product therefrom.

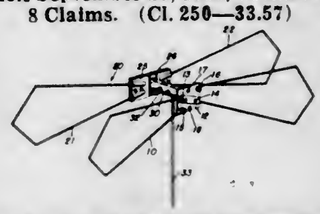
2,615,005

TELEVISION ANTENNA

Henry A. White, Brockton, Mass.

Application September 20, 1950, Serial No. 185,861

8 Claims. (Cl. 250—33.57)



1. An antenna array for the reception of television signals comprising a single, bent antenna wire structure shaped to form substantially two deltoids arranged symmetrically with respect to a plane of symmetry passing between said deltoids and also with respect to a plane bisecting the two deltoids, the two deltoids being joined at a common apex, located at the intersection of the aforesaid planes of symmetry, at which point two of the longer sides of the two deltoids are the common apex at a distance therefrom on the two other and longer sides of the deltoids.

the common apex at a distance therefrom on the two other and longer sides of the deltoids.

2,615,006

PIGMENTARY MATERIALS

Frank W. Lane, Newport, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 5, 1948, Serial No. 19,180

7 Claims. (Cl. 260—37)

1. A process for improving the gloss and wettability properties of a white, calcined, hydrophilic inorganic pigment to be employed in an oleoresinous and gloss emulsion type coating composition which comprises converting said pigment to hydrophobic form by mixing with said pigment prior to employment in the coating composition from about 0.05% to 5% by weight, on the pigment basis, of a halogen-free silicone polymeric compound having the unit structure



wherein R and R′ are hydrophobic organic hydrocarbon radicals, and milling the resulting mixture in an atmosphere of superheated steam in a fluid energy mill.

2,615,007

EPOXIDE RESINS

Sylvan Owen Greenlee, Racine, Wis., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York

No Drawing. Application December 8, 1950, Serial No. 199,931

6 Claims. (Cl. 260—47)

1. The process of producing complex epoxide resins which are polymeric polyether derivatives of p,p′dihydroxydiphenyldimethyl methane, which comprises reacting a mixture of p,p′dihydroxydiphenyldimethyl methane and epichlorhydrin, the molar ratio of p,p′dihydroxydiphenyldimethyl methane to epichlorhydrin in said mixture being between 1:1.2 and 1:1.5, with aqueous caustic soda sufficient in amount to combine with the chlorine of the chlorhydrin, at least part of the aqueous caustic soda being present in the initial mixture to convert the p,p′dihydroxydiphenyldimethyl methane at least in part into its sodium salt, the reaction being continued with heating for a sufficient period of time to effect substantially complete reaction of the p,p′dihydroxydiphenyldimethyl methane and epichlorhydrin to produce solid, water-insouble resinous products having, after washing with water, softening points within the range of from about 84° C. to about 112° C. and with an epoxide equivalent within the range of from about 591 to about 1179.

2,615,008

EPOXIDE RESIN COMPOSITIONS

Sylvan Owen Greenlee, Racine, Wis., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York

No Drawing. Application October 11, 1951, Serial No. 250,951

14 Claims. (Cl. 260—47)

1. Compositions capable on heating of forming high molecular weight epoxide resins, said compositions consisting essentially of a dihydric phenol free from reactive groups other than phenolic hydroxyl groups, and a low melting point epoxide resin resulting from the reaction with heating of a mixture of approximately 1 mol of dihydric phenol free from reactive groups other than phenolic hydroxyl groups with from about 1.2 to about 2 mols of a chlorhydrin selected from the group which consists of epichlorhydrin and glycerol dichlorhydrin and sufficient caustic alkali to combine with the chlorine of the chlorhydrin, said low melting point resins being polyethers of the dihydric phenols with the terminal groups of the polyethers including terminal epoxide groups, said polyethers being free from functional groups other than alcoholic hydroxyl and epoxide groups, the proportion of dihydric phenol to epoxide resin being less than that corresponding to the epoxide equivalent of the resin, whereby on heating the composition a higher molecular weight and a higher melting point epoxide resin is formed.

2,615,009

PROCESS FOR EMULSION POLYMERIZATION AT LOW TEMPERATURES

Willard M. St. John, Jr., and Carl A. Uraneck, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application April 18, 1949, Serial No. 88,232

17 Claims. (Cl. 260—83.7)

1. In a process for the production of synthetic rubber by polymerization in an aqueous emulsion of a monomeric material comprising at least 65 per cent by weight 1,3-butadiene and also styrene at a polymerization temperature below 0° C., the improvement which comprises utilizing as the aqueous medium of said emulsion an aqueous solution containing sodium chloride in an amount between 10 and 30 per cent by weight of water in said solution and such that said medium has a freezing point lower than said polymerization temperature with the relative amount of said aqueous medium such that said emulsion is of the oil-in-water type, and also utilizing potassium caprylate as the emulsifying agent and tertiary butyl mercaptan as the polymer modifying agent.

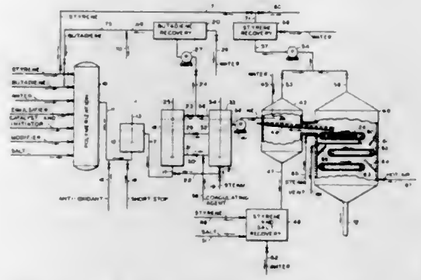
2,615,010

RECOVERY OF RUBBERLIKE POLYMER FROM A LATEX

James E. Troyan, Lewiston, N. Y., assignor to Phillips Petroleum Company, a corporation of Delaware

Application December 16, 1949, Serial No. 133,303

14 Claims. (Cl. 260—85.1)



1. In a process for the separation of unreacted monomers from a latex to recover therefrom a solid rubbery polymer free from monomeric materials, said latex having been formed from an aqueous emulsion polymerization recipe utilizing as the aqueous medium of said emulsion an aqueous solution of a salt of a cation of the group consisting of ammonium, alkali metals, and alkaline earth metals and of an anion of the group consisting of inorganic anions and of formic, acetic, propionic, and butyric acids containing said salt in an amount within the limits of 4 to 30 per cent by weight of water in said solution, and providing for addition copolymerization of a monomeric conjugated diene having from 4 to 6 carbon atoms in the molecule with a monomer copolymerizable therewith, having a boiling point within the limits of 75–200° C., and containing the structure $CH_2{=}C<$, to form a linear copolymer of high molecular weight, the improvement comprising heating said latex at a temperature within the limits of 55 to 135° F. at a pressure within the limits of 50 mm. Hg to two atmospheres for a period of from 0.5 to 5 hours, whereby unreacted conjugated diene present in said latex is completely evolved therefrom as vapor, said latex is concomitantly coagulated, and solid particles of the resulting slurry contain an unreacted portion of said monomer copolymerizable with said diene; separating serum from said slurry; and heating resulting residual coagulum at a temperature within the limits of 175–250° F. while simultaneously passing a stripping gas therethrough, said stripping gas being chemically inert to said residual coagulum whereby monomer is stripped from said coagulum and is carried therefrom in off-gas from said stripping.

2,615,011

PREPARATION OF VINYL ESTERS OF A STABILIZED ROSIN ACID

John C. Robinson, Jr., Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 18, 1950, Serial No. 145,079

15 Claims. (Cl. 260—100)

1. A process for preparing a vinyl ester of a stabilized rosin acid which comprises heating a chemically stabilized rosin acid with an excess of a vinyl ester of a low molecular weight saturated fatty acid in the presence of a catalytic amount of a mercury salt of a strong acid, and separating the resulting vinyl ester of the chemically stabilized rosin acid from the other ingredients of the reaction mixture.

2,615,012

PREPARATION OF VINYL ESTERS OF A STABILIZED ROSIN ACID

John C. Robinson, Jr., Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 18, 1950, Serial No. 145,080

7 Claims. (Cl. 260—100)

1. A process for preparing a vinyl ester of a stabilized rosin acid which comprises vinylating a stabilized rosin acid by contacting the same in liquid phase with acetylene under superatmospheric pressure in the presence of a catalyst selected from the group consisting of the carboxylic acid salts of zinc, mercury and cadmium and separating the resulting vinyl ester of the stabilized rosin acid from the other ingredients of the reaction mixture by distillation, the relatively crude ester product being directly distillable.

2,615,013

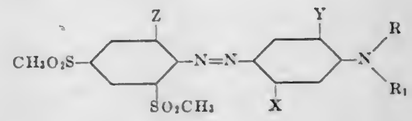
2,4-BIS(METHYLSULFONYL)-BENZENEAZO-N-FLUOROALKYL-N-HYDROXYALKYLANILINE COMPOUNDS

Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application July 21, 1950, Serial No. 175,283

7 Claims. (Cl. 260—207.3)

1. The azo compounds having the general formula:



wherein R represents a member selected from the group consisting of a $—CH_2CHF_2$ group, a $—CH_2CF_3$ group, a $—CH_2CF_2CH_3$ group, a $—CH_2CH_2CHF_2$ group and a $—CH_2CH_2CF_3$ group, R_1 represents a member selected from the group consisting of a β-hydroxyethyl group, a β-hydroxypropyl group, a γ-hydroxypropyl group and a β,γ-dihydroxypropyl group, X represents a member selected from the group consisting of a hydrogen atom, a chlorine atom, a bromine atom, a methyl group and an ethyl group, Y represents a hydrogen atom and Z represents a member selected from the group consisting of a hydrogen atom, a chlorine atom and a bromine atom and wherein Y also represents a methoxy group when X is a chlorine atom or a bromine atom, and the sulfato form thereof.

2,615,014

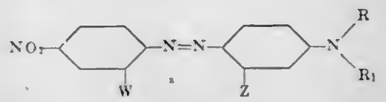
NITROBENZENEAZO-N-DIFLUOROALKYL-N-HYDROXYALKYLANILINE DYE COMPOUNDS

Joseph B. Dickey, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application May 23, 1951, Serial No. 227,931

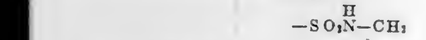
6 Claims. (Cl. 260—207.3)

1. The azo compounds having the formula:



wherein R represents a member selected from the group consisting of a β-sulfatoethyl group, a γ-sulfatopropyl group and a sulfated β,γ-dihydroxypropyl group, R_1 represents a member selected from the group consisting of a 2,2-difluoroethyl group, a 2,2-difluoro-n-propyl group, a 3,3-difluoro-n-propyl group, a 3,3-difluoro-n-butyl group and a 4,4-difluoro-n-amyl group,

Z represents a member selected from the group consisting of a hydrogen atom, a bromine atom, a chlorine atom, a methyl group and an ethyl group and W represents a member selected from the group consisting of a



group and a



group.

2,615,015

METHOD OF PREPARING WATER SOLUBLE ALKOXYL SUBSTITUTED CHALCONE GLYCOSIDES

Clarence Walter Wilson, Ontario, Calif., assignor to Sunkist Growers, Inc., Los Angeles, Calif., a corporation of California

Application November 8, 1948, Serial No. 58,836
10 Claims. (Cl. 260—210)

5. The method of recovering a water soluble lower alkoxyl substituted chalcone glycoside from an aqueous solution thereof having a pH on the acid side of neutral, comprising forming a coacervate of the alkoxyl substituted chalcone glycoside by adding a water soluble salt selected from the group consisting of inorganic sodium, potassium and ammonium salts, and magnesium sulfate to the solution, and separating said coacervate from the brine.

2,615,016

METHOD OF EXTRACTING CARDIOACTIVE GLYCOSIDES FROM BOVIEA VOLUBILIS

Gerhard Schenck, Berlin-Dahlem, and Fred Rattinger, Aschaffenburg, Germany, assignors to Knoll A.-G. Chemische Fabriken, Ludwigshafen on the Rhine, Germany, a corporation of Germany

No Drawing. Application March 15, 1951, Serial No. 215,868. In Germany March 20, 1950
2 Claims. (Cl. 260—210)

1. A method of producing crystalline cardioactive glycosides from *Boviea volubilis* comprising repeatedly extracting, each time for a short period of time, dried and pulverized bulbs of *Boviea volubilis* with methanol, concentrating the combined extracts, precipitating the mucilaginous substances present in said concentrate by the addition of acetone, subjecting the methanol-acetone solution of the glycosides obtained thereby to adsorption on aluminum oxide, and eluting therefrom the glycosides separately.

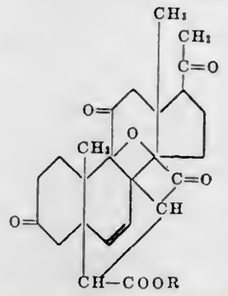
2,615,017

STEROID COMPOUNDS

Paul E. Marlatt, Arthur R. Hanze, A Vern McIntosh, Jr., and Robert H. Levin, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application September 15, 1951, Serial No. 246,864
6 Claims. (Cl. 260—239.57)

1. A 9-hydroxy-5,7-pregnadien-3,11,20-trione 5,8-maleic adduct 9-hydroxy lactone of the formula:



wherein R is selected from the group consisting of hydrogen and a lower-alkyl group containing from one to eight carbon atoms, inclusive.

2,615,018

PREPARATION OF MELAMINE

Leslie C. Lane, Bethel, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 25, 1950, Serial No. 192,149
4 Claims. (Cl. 260—249.7)

1. The method of making melamine that comprises heating hydrogen cyanide in the presence of anhydrous fuller's earth at a temperature in the range of 275–550° C. in a closed reaction zone under a pressure of at least 500 p. s. i.

2,615,019

PREPARATION OF GUANIDINE AND MELAMINE

William J. Klapproth, Jr., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 25, 1950, Serial No. 192,159
10 Claims. (Cl. 260—249.7)

1. The method that comprises heating hydrogen cyanide, ammonia, and phosphoric acid in the presence of a catalyst of the group consisting of fuller's earth, kieselguhr, celite, pumice, alumina, and kaolin at a temperature in the approximate range of 275–450° C. and under a pressure of at least 500 p. s. i. in a closed reaction zone to form a reaction mass comprising guanidine phosphate and melamine.

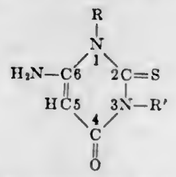
2,615,020

DERIVATIVES OF 2-THIO-6-AMINO-1,2,3,4-TETRAHYDRO-2,4-PYRIMIDINEDIONE

Viktor Papesch, Morton Grove, and Elmer F. Schroeder, Chicago, Ill., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application February 1, 1950, Serial No. 141,836
9 Claims. (Cl. 260—256.5)

1. A compound of the following general structural formula



wherein the substituent radicals R and R′ represent a member of the group consisting of alkyl and aralkyl radicals.

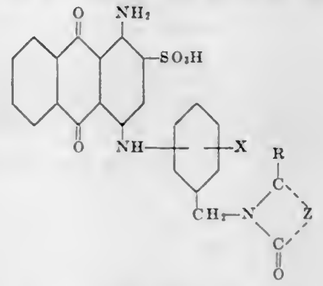
2,615,021

ANTHRAQUINONE DYESTUFF FOR WOOL

David I. Randall, Easton, Pa., and Edgar E. Renfrew, Phillipsburg, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 17, 1950, Serial No. 196,350
5 Claims. (Cl. 260—272)

1. A new dyestuff of the general formula,



wherein R is selected from the group consisting of hydrogen and a lower alkyl group and x is selected from the class consisting of hydrogen, halogen, hydroxy lower alkyl, lower alkoxy, carboxylic and sulfonic acid groups and wherein Z represents an alkylene radical necessary to complete a lactam ring of not more than six members.

2,615,022

PRODUCTION OF SUBSTITUTED PYRIDINES

John E. Mahan, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application December 27, 1949, Serial No. 135,291
27 Claims. (Cl. 260—290)

9. The process for preparing 2-methyl-5-ethyl pyridine which comprises contacting paraldehyde with ammonia in the presence of a fluorine-containing catalyst selected from the group consisting of ammonium fluoride, ammonium bifluoride, boron trifluoride, boron trifluoride-ammonia complex, boron trifluoride-amine complexes, salts of fluoroboric acid, salts of the fluorophosphoric acids, salts of trifluoracetic acid, and salts of fluosilicic acid at a temperature within the range of 300 to 650° F. at a pressure sufficient to maintain the reaction mixture in liquid phase and employing from 0.2 to 10.0 weight per cent of catalyst based on the paraldehyde.

2,615,023

N-SUBSTITUTED FORMAMIDINES

John G. Erickson, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 13, 1950, Serial No. 138,521
10 Claims. (Cl. 260—293)

1. The method which consists of adding hydrogen cyanide to a stoichiometric excess of an N-hydrogen containing amine of the group consisting of primary alkyl amines, dialkyl amines, bis(hydroxyalkyl) amines, and piperidine at a temperature of at least about −15° C. but not higher than about 75° C., allowing the mixture to stand to produce an N-substituted formamidine and recovering a product comprising the thus-formed N-substituted formamidine.

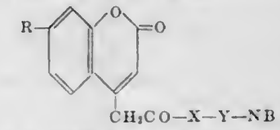
2,615,024

BASIC ESTERS AND AMIDES OF 7-SUBSTITUTED-COUMARIN-4-ACETIC ACIDS AND SALTS AND PROCESSES OF PREPARATION

Raymond O. Clinton, Rensselaer County, and Stanley C. Laskowski, Albany County, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 13, 1949, Serial No. 121,227
20 Claims. (Cl. 260—294.3)

1. A member of the group consisting of: a compound having the formula



where R is a member of a group consisting of lower alkyl radicals and lower alkoxy radicals, X is a member of the group consisting of O and NH, Y is a lower alkylene radical and NB is a member of the group consisting of lower dialkylamino radicals, 1-piperidyl radicals, 1-pyrrolidyl radicals and 4-morpholinyl radicals; and acid-addition salts thereof.

2,615,025

PROCESS FOR THE PREPARATION OF ETHYLENE UREA

Leland J. Lutz, Grand Island, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

No Drawing. Application October 18, 1951, Serial No. 252,007
6 Claims. (Cl. 260—309.7)

1. A process for the manufacture of ethylene urea which comprises reacting carbonyl sulfide and ethylene diamine in a volatile, non-reactive, organic solvent, separating a solid intermediate reaction product from the reaction mixture and recovering a solid residue of ethylene urea from the intermediate product by heating.

2,615,026

PROCESS FOR PRODUCING NONCRYSTALLIZING COPPER PHTHALOCYANINE

Lawrence D. Lytle, Plainfield, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 14, 1950, Serial No. 184,911
3 Claims. (Cl. 260—314.5)

1. A process for the production of a non-crystallizing, non-flocculating copper phthalocyanine which consists in adding copper phthalocyanine to a melt of a member of the group consisting of anhydrous aluminum chloride and a mixture of anhydrous aluminum chloride and sodium chloride, agitating and heating the mixture to from 140° C. to 180° C. and recovering the copper phthalocyanine.

2,615,027

PROCESS FOR PRODUCING NONCRYSTALLIZING COPPER PHTHALOCYANINE

Francis Philipp Bluemmel, Westfield, and Lawrence D. Lytle, Plainfield, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 14, 1950, Serial No. 184,912
3 Claims. (Cl. 260—314.5)

1. A process for the production of a non-crystallizing, non-flocculating copper phthalo-

cyanine which comprises reacting phthalic anhydride, urea, and as sole metal donor compounds, cuprous chloride, and aluminum chloride, the cuprous chloride being present in an amount of approximately 20% and the aluminum chloride in an amount of from 5 to 7½% of the amount of phthalic anhydride, and recovering the resulting phthalocyanine pigment from the reaction mixture.

2,615,028

STABILIZATION OF FURFURAL WITH DIMETHYLFORMAMIDE

Sherwood C. Samuels, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application July 25, 1950, Serial No. 175,857
4 Claims. (Cl. 260—345)

1. A method for inhibiting furfural against its condensation which comprises adding to it 0.01–0.4 weight per cent of dimethylformamide.

ERRATUM

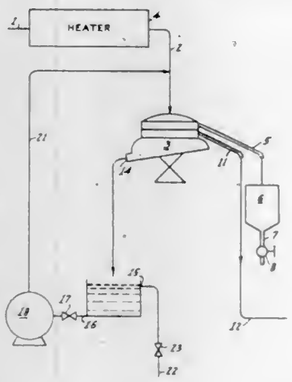
For Class 260—410.8 see:
Patent Nos. 2,615,159 and 2,615,160

2,615,029

METHOD OF RECOVERING GERM OIL

Maurice M. Rosten, New York, N. Y., assignor to National Distillers Products Corp., a corporation of Virginia

Application February 24, 1950, Serial No. 146,000
7 Claims. (Cl. 260—412)



1. Method of recovering germ oil from the slop produced by mashing cereal, the alcoholic fermentation of the mash so produced, thereby producing a beer and the distillation of said beer, thereby producing a distillate of alcohol and a bottoms of distillers' slop, which comprises subjecting such a slop to a centrifugal force of at least 4,000 g's, while at a temperature of at least 150° F. thereby producing a liquid phase enriched in oil and a residue of slop from which said oil was derived, and separately conducting away said liquid phase enriched in oil and said residue.

2,615,030

REACTION PRODUCT OF THIOUREA, AN ALDONIC ACID AND ZINC OXIDE

Allan E. Chester, Highland Park, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 6, 1950, Serial No. 199,582
8 Claims. (Cl. 260—429)

5. The product of the reaction of thiourea, an aldonic acid and zinc oxide.

2,615,031

PREPARATION OF CHROMIC SALTS

William A. Stover, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application July 18, 1950, Serial No. 174,594
12 Claims. (Cl. 260—438)

1. A process for preparing the chromic salt of a low molecular weight fatty acid, which comprises reducing Cr^{+6} to Cr^{+3} with glycollic acid in the presence of a mono-basic fatty acid having not more than six carbon atoms.

2,615,032

PROCESS OF PREPARING REACTION PRODUCT OF OLEYL ALCOHOL AND ALUMINUM CHLORIDE

Robert C. Harrington, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application January 6, 1950, Serial No. 137,265
3 Claims. (Cl. 260—448)

1. A process of preparing a reaction product useful as an emulsifying agent which comprises warming a bath of oleyl alcohol to a temperature not in excess of 150° C., slowly adding to the warmed alcohol a solution consisting essentially of anhydrous aluminum chloride dissolved in nitromethane while stirring the oleyl alcohol, distilling off hydrogen chloride and nitromethane vapors whereby a dark, viscous reaction product is obtained which is soluble in ethanol, isopropanol and hydrocarbon solvents.

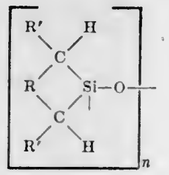
2,615,033

SILOXANES PRODUCED BY HYDROLYSIS OF HALOGEN SUBSTITUTED SILACYCLOHYDROCARBONS

Joseph M. Hersh, New York, N. Y., assignor to Continental Oil Company, Ponca City, Okla., a corporation of Delaware

No Drawing. Application March 8, 1949, Serial No. 80,315
5 Claims. (Cl. 260—448.2)

1. As a new composition of matter, a compound having the structure



wherein n is an integer of about 5 to 50, R is a radical selected from the group consisting of hydrocarbon radicals, halogenated hydrocarbon radicals containing not more than two halogen atoms, furylene, pyridylene and thienylene radicals, R′ is selected from the group consisting of halogen and hydrogen, the total number of halogen atoms in the compound in monomeric form being at least one and not more than four.

2,615,034

METHOD OF PREPARATION OF TRIMETHYLCHLOROSILANE

James F. Hyde, Corning, N. Y., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application September 21, 1951, Serial No. 247,743
4 Claims. (Cl. 260—448.2)

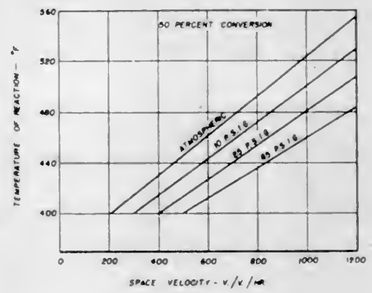
1. A method for preparing trimethylchlorosilane which comprises reacting hydrogen chloride with hexamethyldisiloxane in the presence of at least .01 mol per cent based on the siloxane of an anhydrous chloride of a metal of group II of the periodic table, said metal having an atomic weight less than 140, at a temperature below 100° C.

2,615,035

SYNTHESIS OF ORGANIC COMPOUNDS

Louis C. Rubin, West Caldwell, Earl W. Riblett, Tenafly, and Henry G. McGrath, Elizabeth, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application September 1, 1948, Serial No. 47,184
6 Claims. (Cl. 260—449.6)



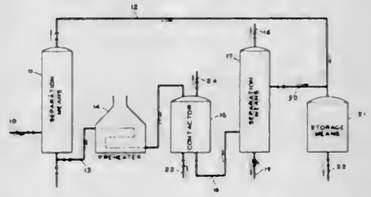
1. In a process for hydrogenating carbon monoxide to produce normally liquid hydrocarbons as the principal product in which a gaseous mixture of hydrogen and carbon monoxide in a mol ratio not substantially lower than about 2:1 and not substantially higher than about 5:1 is passed upwardly in a reaction zone through a mass of finely divided contact material comprising reduced metal hydrogenating catalyst comprising cobalt to maintain the body of contact material substantially in suspension in said gas stream at a temperature which causes reaction of hydrogen and carbon monoxide to produce normally liquid hydrocarbons, the improvement which comprises maintaining a temperature between about 440° F. and about 500° F., a pressure between about atmospheric and about 45 pounds per square inch gage, and a conversion of carbon monoxide of at least 50 per cent per pass, maintaining the above operating conditions such that the space velocity is not substantially greater than about 1200 and that shown in Figure 1 of the drawings for a given temperature and a given pressure, and recovering normally liquid hydrocarbons as a product of the process.

2,615,036

TREATMENT OF SYNTHETIC GASOLINE

Harold W. Fleming, Bartlesville, Okla., and Alvin H. Friedman, Kansas City, Mo., assignors to Phillips Petroleum Company, a corporation of Delaware

Application February 16, 1948, Serial No. 8,674
5 Claims. (Cl. 260—450)



1. A process for the manufacture of an improved synthetic gasoline from gasoline boiling range materials having a boiling point range from about 37° to 205° C. produced by a Fischer-Tropsch process for the manufacture of hydrocarbons from hydrogen and carbon monoxide which comprises; separating from said materials a first fraction containing oxygenated organic compounds and having a boiling range above 90°–95° C.; separating from said materials a second fraction containing oxygenated organic compounds and having a boiling range below 90°–95° C.; treating said first fraction at a temperature in the range 316°–427° C. with a reforming catalyst selected from the group consisting of bauxite, brucite and a natural clay of the bentonitic type to effect the removal of the chemically combined oxygen present in said first fraction; and admixing said treated first fraction with said second fraction having its same original composition to produce an improved synthetic gasoline.

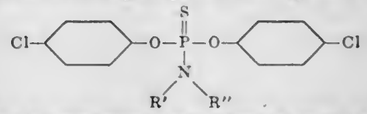
2,615,037

O,O-DI(4-CHLOROPHENYL) N-ALKYL-AMIDOTHIOPHOSPHATES

Clarence L. Moyle, Clare, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application October 15, 1948, Serial No. 54,832
6 Claims. (Cl. 260—461)

1. An amidothiophosphate having the formula



wherein R′ represents an alkyl radical and R″ represents a member of the group consisting of hydrogen and alkyl radicals.

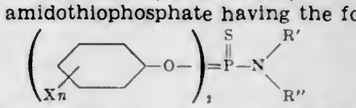
2,615,038

O,O-DI(POLYHALOPHENYL) N-SUBSTITUTED AMIDOTHIOPHOSPHATES

Clarence L. Moyle, Clare, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application October 15, 1948, Serial No. 54,833
6 Claims. (Cl. 260—461)

1. An amidothiophosphate having the formula



wherein each X represents halogen of the group

consisting of bromine and chlorine, n is an integer from 3 to 5, inclusive, R′ represents a member of the group consisting of hydrogen and the alkyl and cycloalkyl radicals and R″ represents a member of the group consisting of the cycloalkyl and alkyl radicals.

2,615,039

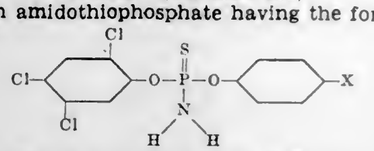
AMIDOTHIOPHOSPHATES

Lewis R. Drake, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application November 2, 1949, Serial No. 125,160

3 Claims. (Cl. 260—461)

1. An amidothiophosphate having the formula



wherein X represents a member of the group consisting of bromine and chlorine.

2,615,040

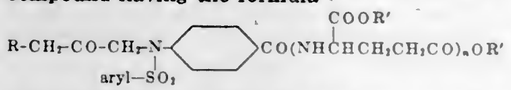
SYNTHESIS OF FOLIC ACID INTERMEDIATES

David I. Weisblat and Barney J. Magerlein, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

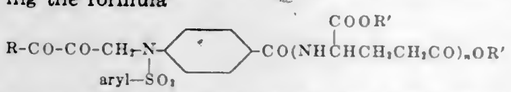
No Drawing. Application August 19, 1950, Serial No. 180,509

5 Claims. (Cl. 260—470)

1. The method which includues: oxidizing a compound having the formula



wherein R′ is a member of the class consisting of hydrogen and the alkyl radicals, n is a member of the class consisting of zero and the positive integer 1 and R is a member of the class consisting of hydrogen and the alkyl radicals with selenium dioxide to form a compound having the formula



wherein R′, R and n have the values given.

2,615,041

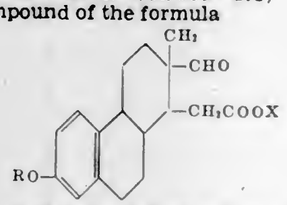
DERIVATIVES OF 2-METHYL-2-FORMYL-7-HYDROXYOCTAHYDROPHENANTHRENE-1-ACETIC ACID AND THE PRODUCTION THEREOF

Max N. Huffman, Dallas, Tex., assignor to G. D. Searle and Co., Chicago, Ill., a corporation of Illinois

No Drawing. Application July 12, 1949, Serial No. 104,378

11 Claims. (Cl. 260—473)

1. A compound of the formula



wherein R is selected from the group of radicals consisting of lower alkyl, lower alkanoyl, benzoyl and hydrogen and X is selected from the group of radicals consisting of lower alkyl and hydrogen.

2,615,042

PROCESS FOR PREPARING GALLIC ESTERS

Harold von Bramer and Milton L. Clemens, Jr., Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application January 27, 1951, Serial No. 208,228

10 Claims. (Cl. 260—473)

1. A process for preparing alkyl esters of gallic acid comprising heating gallic acid and a saturated aliphatic alcohol containing from 1 to 4 carbon atoms together in the presence of an alkyl ester of sulfuric acid.

2,615,043

METHOD OF PREPARING ETHYL DICHLOROPHOSPHINE

Morris S. Kharasch, Chicago, Ill., and Sidney Weinhouse, Chester, Pa., assignors to the United States of America as represented by the Secretary of War

No Drawing. Application February 21, 1944, Serial No. 523,364

1 Claim. (Cl. 260—543)

A method of preparing ethyldichlorophosphine which comprises reacting phosphorus trichloride with tetraethyl lead at a temperature above 90° C.

2,615,044

PREPARATION OF GUANIDINE THIOCYANATE

Nat H. Marsh, Noroton Heights, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application August 30, 1950, Serial No. 182,206

2 Claims. (Cl. 260—564)

1. The method of preparing guanidine thiocyanate that comprises passing ammonia and carbon disulfide into a molten mass comprising guanidine thiocyanate at substantially atmospheric pressure and at a temperature within the range of about 170°–300° C., whereby the ammonia and carbon disulfide react to form additional guanidine thiocyanate, and recovering the thus-formed guanidine thiocyanate.

2,615,045

PREPARATION OF DIARYLGUANIDINES

Donald W. Kaiser, Old Greenwich, and Paul F. Hopper, Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application October 23, 1950, Serial No. 191,720

8 Claims. (Cl. 260—565)

1. In the method of making a symmetrical diaryl guanidine by adding a cyanogen halide to a mixture consisting essentially of water and a primary aromatic amine free from interfering substituents, the improvement that comprises stopping the addition of the cyanogen halide when the pH of the reaction mix solution reaches a value in the range of substantially 2.3–3.0.

2,615,046

2,2′-METHYLENEBIS(4-CHLORO-6-AMINOPHENOL)

Herman E. Faith, New Palestine, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware

No Drawing. Application June 23, 1950, Serial No. 170,037

1 Claim. (Cl. 260—570)

The compound 2,2′-methylenebis(4-chloro-6-aminophenol).

2,615,047

RECOVERY OF XYLIDINES

Stanley Francis Birch, Frederick Arnold Fidler, and Ronald Alfred Dean, Sunbury-on-Thames, England, assignors to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation

No Drawing. Application May 21, 1947, Serial No. 749,598. In Great Britain May 24, 1946

3 Claims. (Cl. 260—582)

1. A process for the recovery of ortho-4-xylidine from xylidine residues, said residues having been obtained by treating a crude mixture of xylidine with acetic acid, separating the acetate of meta-4-xylidine, regenerating free amine from the residue, treating the free amine with hydrochloric acid and separating the hydrochloride of para-xylidine, which comprises regenerating free amines from said xylidine residues by treatment with alkali and fractionally distilling the said amines so regenerated from xylidine residues in a fractionating column having the equivalent of at least 20 theoretical plates and operated at a reflux ratio of not less than 10:1 and under a pressure not exceeding 50 mm. pressure of mercury, to yield a fraction having an initial boiling point of 97° C. at 10 mm. pressure of mercury and consisting essentially of ortho-4-xylidine.

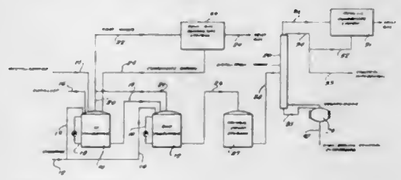
2,615,048

PROCESS OF PRODUCING CHLORINATED ACETALDEHYDES UTILIZING CHLORINATED ACETALDEHYDES AS DILUENTS

John A. Pianfetti and David J. Porter, South Charleston, W. Va., assignors to Food Machinery and Chemical Corporation, New York, N. Y., a corporation of Delaware

Application October 20, 1948, Serial No. 55,452

4 Claims. (Cl. 260—601)



1. In a process for the chlorination of a substance selected from the group consisting of acetaldehyde and its reversible polymers, the steps which comprise continuously adding said substance to a body of at least 3.5 mols of chloroacetaldehyde per mol equivalent of acetaldehyde, continuously adding more than enough chlorine to said body to convert the added substance to monochloroacetaldehyde but less than enough chlorine to convert said substance to chloral, and chlorinating said substance in said body at temperatures of at least 50° C. in the presence of a reaction promoter, continuously withdrawing the chlorinated substance from said body and continuously adding chlorine to the withdrawn substance and further chlorinating the withdrawn substance at temperature in excess of 50° C.

2,615,049

PROCESS FOR PRODUCING CHLORAL

John A. Pianfetti and David J. Porter, South Charleston, W. Va., assignors to Food Machinery and Chemical Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 3, 1947, Serial No. 745,726

4 Claims. (Cl. 260—601)

1. A process for producing chloral from a substance selected from the group consisting of acetaldehyde and its reversible polymers comprising mixing said substance with an amount of a liquid diluent substantially free of organic substances reactive with said substance and its chlorination products sufficient to substantially prevent deleterious side reactions at the temperatures employed and with antimony trichloride, and chlorinating said substance at a temperature of at least 50° C. substantially throughout the chlorination until a major portion is converted to chloral.

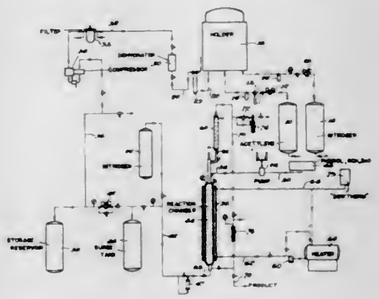
2,615,050

VINYL ETHERS

Thomas H. Insinger, Jr., Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application September 24, 1947, Serial No. 775,945

16 Claims. (Cl. 260—612)



16. A process of producing vinyl ethers comprising: reacting at an elevated temperature and pressure in liquid phase acetylene with a liquefied organic, monomeric hydroxy compound free from alkali sensitive groups and corresponding to the formula



in which X represents either —H, —COOH, —COO-metal, —NY_2, —(OR)n—OH or

—(OR)n—OR

groups, R being an aliphatic, hydro-aromatic, aromatic or aralkyl radicle, Y being —H, —R or —ROH and n being nought or any integral number dissolved in an inert solvent in a non-explo-

sive mixture in the presence of an alkali metal hydroxide mixed with a metal oxide selected from the group of oxides of the metals consisting of zinc oxide (ZnO) and cadmium oxide (CdO).

2,615,051

ETHERIFICATION OF HYDROQUINONE

Henry W. Grote, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 10, 1950, Serial No. 167,480
8 Claims. (Cl. 260—613)

4. A process for the etherification of hydroquinone which comprises commingling with the hydroquinone a sufficient quantity of water to dissolve the same and dissolving the hydroquinone in the water at a temperature below the decomposition temperature of hydroquinone, introducing the resultant solution into a reaction zone and therein reacting the hydroquinone at a temperature of from about 450° to about 700° F. with an etherifying agent selected from the group consisting of an alcohol and a dialkyl ether.

2,615,052

2,2'-METHYLENEBIS(4-CHLORO-6-NITROPHENOL) AND A METHOD FOR ITS PRODUCTION

Herman E. Faith, New Palestine, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware

No Drawing. Application June 23, 1950, Serial No. 170,033
2 Claims. (Cl. 260—619)

1. The compound 2,2'-methylenebis(4-chloro-6-nitrophenol).

2. The process for the preparation of the compound 2,2'-methylenebis(4-chloro - 6 - nitrophenol) which comprises treating 2,2'-methylenebis-(4-chloro-phenol) with nitric acid in glacial acetic acid.

2,615,053

PROCESS FOR REFINING CRUDE INOSITOL-CONTAINING SOLUTIONS AND FOR RECOVERING INOSITOL THEREFROM

Neal E. Artz and William Hach, Oak Park, Ill., assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 1, 1949, Serial No. 119,198
10 Claims. (Cl. 260—631)

1. In a process for refining crude aqueous solutions of inositol obtained by hydrolysis of phytates, the improvement comprising neutralizing the phytate hydrolyzate with at least one alkaline substance from the group consisting of calcium oxide, calcium hydroxide, and lime-inositol complex, to a pH within the range of about 6 to about 7; removing the precipitated impurities; further treating said phytate hydrolyzate with at least one of said alkaline substances to increase the pH to within the range of about 8.5 to about 10; removing the precipitated impurities; recovering crystalline inositol from said phytate hydrolyzate; treating the mother liquor from said inositol crystallization with at least one substance from the group consisting of calcium oxide, calcium hydroxide and any mixtures thereof to precipitate a lime-inositol complex; and recovering insolubilized lime-inositol complex.

3. A process for recovering inositol from its impure aqueous solutions, comprising treating an inositol-containing solution which is neutral to alkaline and substantially free of lime-precipitable ash with at least one substance from the group consisting of calcium oxide, calcium hydroxide and any mixtures thereof to precipitate a lime-inositol complex; treating said lime-inositol complex with at least one substance from the group consisting of acids and acid-forming substances which form insoluble substances with calcium; removing said insoluble substance; and recovering inositol from the solution.

2,615,054

VINYL CHLORIDE PREPARATION

Hoke S. Miller, Stamford, Conn., assignor to Air Reduction Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application December 17, 1947, Serial No. 792,335
6 Claims. (Cl. 260—656)

6. In a continuous process of preparing vinyl chloride in which acetylene and hydrogen chloride are passed over a mercuric chloride catalyst maintained at an elevated temperature, the improvement which comprises continuously introducing at least one of the reactant gases into the reaction zone while saturated with water vapor.

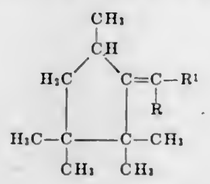
2,615,055

CYCLIC OLEFINS

Carl B. Linn, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 9, 1950, Serial No. 161,014
7 Claims. (Cl. 260—666)

1. A cyclic olefin having the structural formula



wherein R represents a member of the group consisting of hydrogen and an alkyl group and R^1 represents a member of the group consisting of an alkyl group, a cycloalkyl group, and an aryl group.

2,615,056

PROCESS FOR ISOMERIZATION OF AROMATIC COMPOUNDS

Joseph E. Nickels, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application October 2, 1947, Serial No. 777,582
17 Claims. (Cl. 260—668)

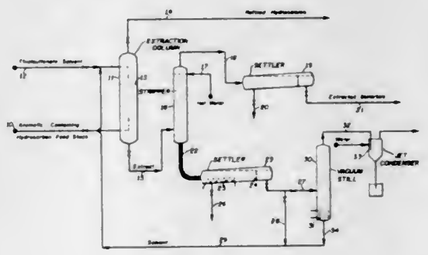
1. In a process for catalytic isomerization, the steps of bringing a procatalysate containing predominantly an aromatic compound containing at least one substituent capable of attachment at two or more isomerically different positions on the aromatic nucleus in contact with a catalyst comprising an aluminum salt of a fluorine acid selected from the class consisting of hydrofluoric acid per se and hydrofluoric acid in complex combination as a Werner complex at a reactive temperature sufficient to change the isomer distribution in said procatalysate.

2,615,057

EXTRACTION OF AROMATIC HYDROCARBONS WITH ESTERS OF THIOLSULFONIC ACID

William F. Wolff, Park Forest, Ill., and Carl E. Johnson, Griffith, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application August 30, 1951, Serial No. 244,373
9 Claims. (Cl. 260—674)



1. A process for the extraction of an aromatic hydrocarbon from a hydrocarbon mixture containing the same, which process comprises contacting said mixture with an ester of a thiolsulfonic acid containing 2 to 20 carbon atoms per molecule and separating a raffinate phase from an extract phase comprising said ester and said aromatic hydrocarbon.

2,615,058

METHOD OF PURIFYING NAPHTHALENE BY CRYSTALLIZATION

Wojciech Swietoslawski, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application October 19, 1946, Serial No. 704,535
2 Claims. (Cl. 260—674)

1. A method of purification of naphthalene containing impurities such as thionaphthenes and oily contaminants which comprises dissolving the impure naphthalene in an excess by weight of a mixture consisting of methanol, thiophene and water, cooling the solution to a temperature of 50° to —25° C. to fully crystallize the naphthalene and form eutectic mixtures of the methanol with the impurities, separating the crystallized naphthalene from the solution by filtration, and washing the crystals with the solvent mixture.

2,615,059

STABILIZED RUBBER ADHESIVE

Cyrus W. Bemmels, New Brunswick, N. J., assignor to Industrial Tape Corporation, a corporation of New Jersey

No Drawing. Application July 7, 1949, Serial No. 103,540
4 Claims. (Cl. 260—755)

1. A substantially uncurable, dry and normally tacky composition consisting essentially of approximately 33 per cent natural rubber in its soft, soluble and substantially unvulcanized state, approximately 28 per cent rosin, filler and, as a stabilizer, from about one to about three per cent by weight of the composition of at least one zinc dialkyl dithiocarbamate having from one to ten carbon atoms in each alkyl group.

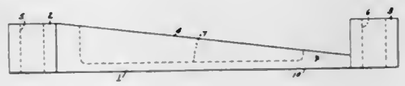
ELECTRICAL

2,615,060

CRUCIBLE FOR THE PURIFICATION OF MOLTEN SUBSTANCES

John C. Marinace and Theodore E. Le Loup, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application August 14, 1951, Serial No. 241,772
2 Claims. (Cl. 13—25)



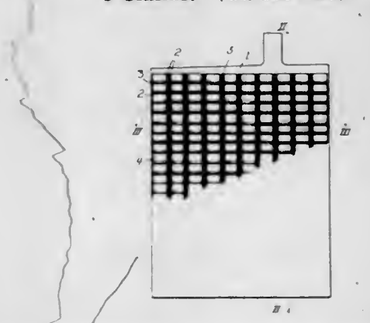
1. A crucible for the purification of metals comprising a horizontally extending body of electrical resistance material, top, bottom and side faces on said body, electrical terminals at opposite ends of the body, said body having an ingot mold cavity in its top face extending substantially along the length of said face, the faces of said body being uniformly tapered in cross section from end to end in both horizontal and vertical planes from a greatest cross section adjacent one end to a smallest cross section adjacent the opposite end, whereby, upon application of current to said terminals, uniform end-to-end temperature gradient will be impressed on said mold cavity.

2,615,061

BATTERY PLATE

Gustaf Erik Brandt, Nol, Sweden, assignor to Aktiebolaget Tudor, Stockholm, Sweden, a Swedish joint-stock company

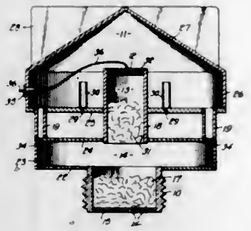
Application February 3, 1948, Serial No. 5,964
In Sweden December 21, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 21, 1966
3 Claims. (Cl. 136—36)



1. A battery plate, comprising an electrically conducting frame with an active paste inserted therein, said frame comprising electrically conducting grid bars embedded in said active paste and a number of parallel, electrically conducting main bars integral with said grid bars, said main bars being arranged in pairs and having lateral surfaces not covered by the active paste, the dis-

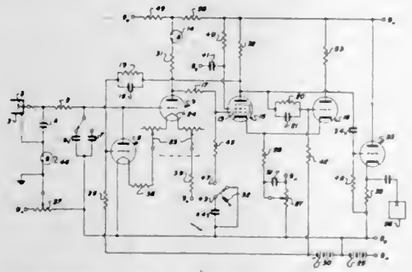
tance between said main bars forming a pair being short in relation to the distance between said main bars belonging to different pairs, fillers of insulating acid proof material inserted between the main bars of each pair and extending over the adjacent sides of each main bar in each pair thereby forming H-shaped strips in cross section and covering said lateral surfaces, said active paste being inserted between the adjacent bars of different pairs of main bars, a layer of insulating, liquid permeable material on each side of said frame to cover the lateral surfaces of said active paste, and a liquid permeable casing of insulating sheet material enclosing said layers of insulating, liquid permeable material, and being joined to said strips to form an integral structure therewith.

2,615,062
STORAGE BATTERY CAP WITH GAS RECOMBINING MEANS
Palmer H. Craig, Coral Gables, Fla.
Application May 3, 1949, Serial No. 91,197
8 Claims. (Cl. 136—179)



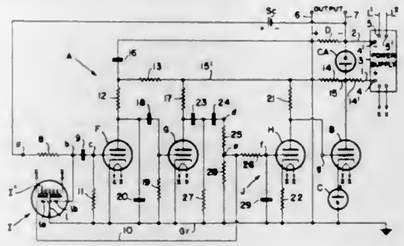
1. A water replenishing device for a storage battery comprising a cylindrical base member, a second cylindrical member having a domed top wall and heat dissipating structure external thereto, a gas inlet member mounted between said cylindrical members, a catalyst mounted within said second cylindrical member and a plurality of water return tubes connected from said second cylindrical member to said first cylindrical member at spaced intervals about the peripheries of said cylindrical members.

2,615,063
CURRENT MEASURING DEVICE
Clarence J. Brown, Los Alamos, N. Mex., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application November 10, 1950, Serial No. 195,086
2 Claims. (Cl. 171—95)



1. A device for measuring minute electrical currents comprising an integrating network including a shunt capacitor, a control vacuum tube having at least a filamentary cathode, grid and anode, means electrically connecting the grid-cathode inter-electrode space in shunt with said capacitor, a flip-flop circuit comprising a first and a second grid-controlled thermionic tube, said flip-flop circuit first thermionic tube having a sharp cut-off characteristic and having the grid directly connected to the control tube anode, a grid-controlled switch tube having a filamentary cathode, grid and anode, and having the cathode-anode interelectrode space connected in shunt with said capacitor, means electrically connecting the filamentary cathodes of the control tube and the switch tube in series with each other and a source of filament potential, means direct-current coupling the switch tube grid with the anode of the flip-flop circuit first tube, means connected to the flip-flop circuit for recording each activation thereof, said flip-flop circuit first tube being normally conducting, whereby an accumulating charge in said capacitor with polarity positive with respect to the control tube cathode causes a decrease in current in the flip-flop circuit first tube, rapid transference of conduction to the second tube and impression of a positive impulse on the switch tube control grid to thereby discharge the capacitor, and the direct coupling between the anode of the control tube and the flip-flop first tube grid inhibits the return to the original state of the flip-flop circuit until the capacitor is discharged to a selected value.

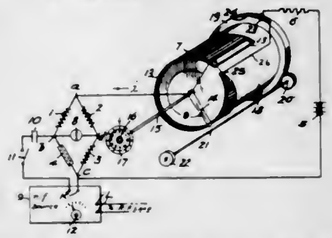
2,615,064
AMPLIFIER FOR STABILIZING SMALL UNIDIRECTIONAL SIGNALS
Leonard Stanton, Philadelphia, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 22, 1950, Serial No. 202,267
5 Claims. (Cl. 171—95)



1. In regulating apparatus comprising a circuit network including first and second electronic amplifiers each having at least one electronic valve including anode, cathode, and control grid elements, having an input circuit including the control grid and cathode of a valve included in that amplifier, and having an output circuit including the anode and cathode of a valve included in that amplifier, said network also including terminals adapted to be connected to a source of energizing voltage, connections between said terminals and said valves operative to supply anode current to the latter, a first resistor connected in the output circuit of said second amplifier and across which said apparatus is operative to maintain a substantially constant voltage drop, a second resistor, a source of standard voltage, conductors connecting said first and second resistors and said standard voltage source in series in the input circuit of said first amplifier with the standard voltage of said standard voltage source in bucking relation to the said voltage drop across said first resistor, and a D. C. to A. C. converter connected in the last mentioned input circuit

and operative to impress thereon for amplification by said first amplifier an alternating current signal of a magnitude which is dependent upon the difference between the magnitudes of said standard voltage and said voltage drop and of a phase which is dependent upon which of said magnitudes is the greater, the improvement comprising switching means connected across at least a portion of the output circuit of said first amplifier and operative to short-circuit effectively said output circuit portion during periods coinciding with alternate half cycles of said alternating current signals to derive a pulsating direct current signal of a magnitude and polarity respectively dependent upon the magnitude and phase of the first mentioned alternating current signal, a filter circuit having an input portion connected to said output circuit portion and operative to derive from said pulsating signal a substantially ripple-free direct current signal, said filter circuit having an output portion in which the last mentioned signal appears, and conductor means connected between the output portion of said filter circuit and the input circuit of said second amplifier and operative to apply said last mentioned signal to said second amplifier for amplification therein.

2,615,065
ELECTRICAL MEASURING SYSTEM
Paul O. Farnham, Mountain Lakes, N. J., assignor to Aircraft Radio Corporation, Boonton, N. J., a corporation of New Jersey
Application January 2, 1947, Serial No. 719,760
3 Claims. (Cl. 171—95)

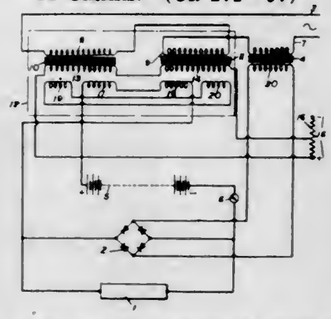


1. Apparatus for measuring radio frequency power comprising a bridge including a temperature-sensitive resistor element as one arm thereof, means for introducing the radio frequency power in circuit with the temperature-sensitive resistor element; a direct current source of constant potential, a non-linear rheostat connected in the bridge circuit to control bridge current and including a tapered resistance element and a rotatable contact arm, said rheostat having a resistance-displacement characteristic such that

$$\frac{1}{R^2}$$

varies linearly with angular displacement of the contact arm, wherein R is equal to the total series resistance across said direct current source which establishes through the bridge that value of direct current necessary to balance the bridge; and a radio frequency power indicating device; said device including a rotatable indicator member coupled to said contact arm for angular displacement therewith, and means supporting said rheostat for angular adjustment with respect to a fiducial mark associated with said indicator member, whereby said bridge may be balanced at zero electrical power input by angular adjustment of said rheostat with said indicator member set at said fiducial mark to indicate zero power input, and said contact arm may be adjusted angularly on said rheostat to rebalance the bridge when subject to a radio frequency power input, the position of the indicator member with respect to the fiducial mark then indicating the magnitude of the radio frequency power input to the temperature-sensitive resistor.

2,615,066
DIRECT CURRENT ELECTRICAL SUPPLY SYSTEM
John Charles Milne, Wolverhampton, England, assignor to The Electric Construction Company Limited, Wolverhampton, England, a company of Great Britain
Application July 7, 1950, Serial No. 172,506
In Great Britain July 12, 1949
14 Claims. (Cl. 171—97)

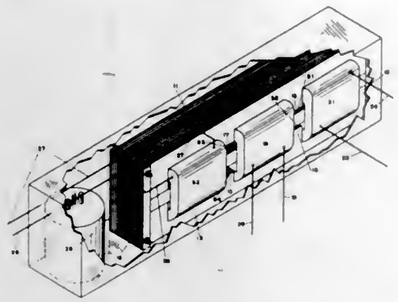


14. A direct current electrical supply system comprising in combination, a source of alternating current, a main supply rectifier fed from said source, an electric battery connected in parallel with said main rectifier, a first magnetic amplifier comprising a pair of choke coils each having an alternating current winding, a pre-setting winding and a control winding, a second rectifier energized from said source of alternating current, the input to said second rectifier being controlled by said alternating current windings of said first magnetic amplifier, an adjustable source of direct current for supplying said pre-setting windings, a second magnetic amplifier comprising a pair of alternating current windings connected in the energizing circuit of said main rectifier, a pair of pre-setting windings, and a pair of control windings supplied from said second rectifier; and a second adjustable source of direct current for energizing said pre-setting windings of said second magnetic amplifier, said control windings of said first magnetic amplifier being connected to carry the current flowing to and from said battery and being operative to vary the impedance of said alternating current windings of said first magnetic amplifier and thereby to control the input to said control windings of said second magnetic amplifier and thereby to adjust the voltage of said main rectifier in a direction to oppose the said battery current.

2,615,067
LUMINESCENT TUBE SYSTEM AND APPARATUS
John Herold Bridges, Fairburn, Ga., assignor to National Inventions Corporation, a corporation of New Jersey
Original application March 5, 1945, Serial No. 581,055, now Patent No. 2,510,209, dated June 6, 1950. Divided and this application October 1, 1946, Serial No. 700,428. In Canada August 20, 1943
1 Claim. (Cl. 171—97)

A power unit comprising in combination a three coil transformer which in turn comprises a

single shell-type magnetic core, two paired sets of shunts, the shunts of one set being of higher reluctance than those of the other, extending between the longitudinal members of the core but providing included air-gaps, said shunts dividing the core into three compartments only, one pri-

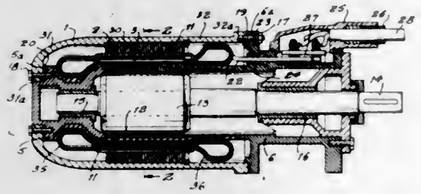


mary coil only in the intermediate compartment, and two secondary coils one being in each end compartment; and a power factor-correcting condenser disposed physically contiguous one end of the transformer and electrically connected in circuit with the secondary coil associated with the set of shunts of high reluctance.

2,615,068

ELECTRIC INDUCTION MOTOR WITH TOTALLY ENCLOSED LIQUIDPROOF STATOR

Ambrogio Radice, Milan, Italy, assignor to Ing. Silvio Immovilli, Milan, Italy
Application January 12, 1948, Serial No. 1,755
In Italy September 30, 1943
7 Claims. (Cl. 171—252)

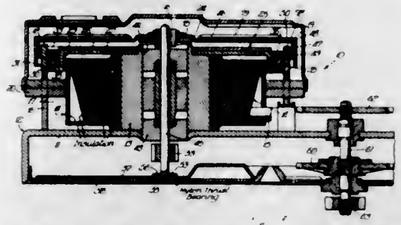


1. A liquid-impermeable stator for an electromotor adapted to be operated in a submerged condition, comprising in combination, an outer jacket having a cylindrical mid portion and two end portions, one of said end portions being cylindrical and having substantially the same diameter as said cylindrical mid portion, the other of said end portions being tapering; a first annular magnetic core connected to said middle portion of said outer jacket; an inner jacket including a first sleeve sealed hermetically to said tapering end portion of said outer jacket, a second annular magnetic core provided with axial grooves on the outer perimeter thereof and being arranged opposite to said first annular magnetic core, and a second sleeve sealed hermetically to said cylindrical end portion of said outer jacket, said sleeves being arranged, respectively on the sides of said second annular magnetic core; and a stator winding arranged in the space between said jackets and located at least partly in the grooves of said second annular magnetic core, whereby said inner jacket and said stator winding form a unit which can be introduced into, and withdrawn from, said outer jacket through said cylindrical end portion thereof.

2,615,069

ELECTRIC MOTOR CONSTRUCTION

William P. Gallagher, Chicago, Ill., assignor to International Register Company, Chicago, Ill., a corporation of Illinois
Application December 14, 1949, Serial No. 132,958
12 Claims. (Cl. 172—278)

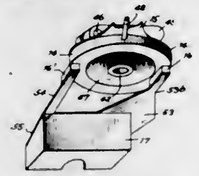


1. An electric motor construction comprising, in combination, a magnetic core, a winding on said core, a magnetic plate extending radially from one end of said core; a magnetic field ring extending from said plate, axially coextensive with said core, and having spaced pole tips extending therefrom; field plate means extending radially from the other end of said core with the central plate portion extending the major part of the distance between said core and said field ring and having two sets of pole tips extending radially therefrom in pairs with their outer ends extending in opposite axial directions between and coextensive with adjacent pairs of pole tips of said field ring, the inner portions of one set of pole tips from said field plate means extending axially therefrom toward said magnetic plate and overlying said winding whereby the radially outwardly extending portions thereof are axially spaced from the radially outwardly extending portions of the other set of pole tips and together define an annular space encircling and coextensive with the space occupied by said winding, a shading ring in said annular space, a bearing at each end of said core, a shaft rotatable in said bearings with its ends projecting therebeyond, a rotor carried by one end of said shaft at said other end of said core including a rotor ring of magnetic material having an L-shaped cross section with one arm overlying said coextensive ends of said pole tips and the other arm extending radially inwardly whereby said rotor is attracted toward said winding on energization thereof, and a thrust bearing stationarily mounted at one end of said core and cooperating with said shaft for holding the same and said rotor in fixed axial position when said winding is energized.

2,615,070

ROTATABLE ELECTRICAL POTENTIOMETER CONNECTION

Willard J. Opocensky, Glendale, Calif., assignor to Librascope, Incorporated, Glendale, Calif., a corporation of California
Application August 25, 1948, Serial No. 46,029
7 Claims. (Cl. 173—324)



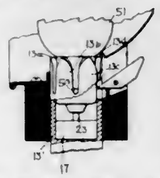
1. In an electrical device, the combination with a rotatable contact member having a slip ring;

of a stationary contact member to co-act therewith, said stationary contact member having a plurality of flexible contact arms of substantially different effective lengths extending into engagement with the slip ring in a plane normal to the axis of rotation of said slip ring; and means having an inclined face to support the stationary contact member at an angle to the plane of the rotatable contact member to bias the stationary resilient-contact arms against the rotatable contact member.

2,615,071

FLASH LAMP SOCKET WITH EJECTOR

Morris Schwartz and William Castedello, Fairfield County, Conn., assignors to The Kalart Company, Inc., Stamford, Conn.
Application June 2, 1945, Serial No. 597,366
2 Claims. (Cl. 173—328)

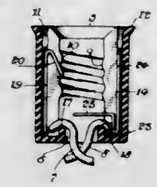


1. A flash lamp socket with ejector comprising a metal shell including a plurality of pairs of axial slots extending from the base receiving end of the shell, the slots of each pair being disposed diametrically opposite to each other, said shell being arranged to receive a flash lamp of the threaded base type or a flash lamp of the bayonet lock base type in different rotational positions of the bayonet pins of the latter type relative to the receiving end of the shell, spring actuated means mounted within said shell at the bottom thereof and arranged to be loaded by the base of an inserted lamp and to eject an inserted lamp when released, said spring means constituting one of the socket terminals, the other being constituted by said shell, the axial depth of each of said slots being selected to permit contact between the spring means and the base of an inserted lamp with bayonet type base when a bayonet pin of said lamp is received by any one of said slots, a two-arm locking lever having at the end of one arm a pointed edge, said lever being pivotally supported on the socket in a position in which the pointed edge protrudes through one of said slots into the interior of the shell when the axis of the lever arm having the pointed edge thereon is approximately transversely to the shell axis so as to cause engagement between the pointed edge and the base of a lamp being inserted in the shell, and in which the other lever arms extends from the socket, the pivot point of said lever being positioned and arranged to cause the lever to be pivoted into a position in which the pointed edge thereof clears the interior of the shell in response to the engagement of said pointed edge upon the insertion of a lamp and to be pivoted into a position in which the said pointed edge protrudes into the interior of the shell and is pressed against the wall of the lamp in response to the ejection pressure exerted by the loaded spring means upon the lamp base, thereby locking the lamp within the socket, said lever arm extending from the socket being arranged to pivot the lever in the direction for withdrawal of the pointed edge from engagement with the base wall, thereby releasing the lamp for ejection, and means biasing said lever into a position in which the pointed edge thereof protrudes into the interior of said shell.

2,615,072

SOCKET RECEPTACLE FOR ELECTRIC LIGHT BULBS

Charles E. Gilbert, New York, N. Y., Margaret Doris Gilbert, Norman Coates, and The Chase National Bank of the City of New York, executors of said Charles E. Gilbert, deceased
Application March 2, 1948, Serial No. 12,587
12 Claims. (Cl. 173—358)

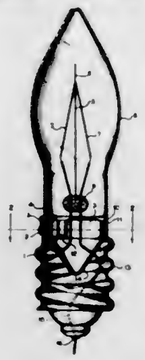


1. An electrical socket receptacle for electric light bulbs consisting of a hollow body made of an insulating material and formed with rounded side walls and flat shaped end walls and having a pair of grooved recesses formed on the interior faces of said flat shaped end walls, said grooved recesses having a width greater than the smallest separation of said rounded side walls, and screw threads formed on the interior faces of said rounded side walls, electrical contact elements slidably seated in said recesses with a pressed fit, said contact elements having a groove engaging portion wider than said smallest separation of said rounded side walls and being provided with means at their lower ends to grip and hold the bare wire ends of an electrical conductor cord in said recesses and to make electrical contact therewith and also with means for making electrical contact with the base portion of an electric light bulb when said bulb is screwed into said socket on said screw threads, said contact-making means comprising respective portions of said contact elements of a width less than said smallest said separation of said rounded side walls and projecting into the cylindrical space defined by said rounded side walls.

2,615,073

ELECTRIC LAMP BULB

Erik Allan Hörberg, Enskede, Sweden, assignor to Lumalampan Aktiebolag, Stockholm, Sweden, a corporation of Sweden
Application October 23, 1950, Serial No. 191,669
In Sweden March 12, 1949
3 Claims. (Cl. 173—359)



1. An electric lamp comprising a glass bulb having a neck portion and lead wires extending from a lower portion of said bulb, said neck being

formed to provide at least three peripherally spaced and peripherally narrow projections separated by peripherally extending recessed portions of materially greater peripheral extent than said projections, said recesses extending axially for the full width of said neck portion, and a socket having a collar at its open end receiving said bulb with said projections in contact therewith to locate the bulb in the socket, one of said lead wires extending from said lower portion of the bulb upwardly through one of the channels formed between said collar and the recessed portions of said neck and being soldered externally to said collar.

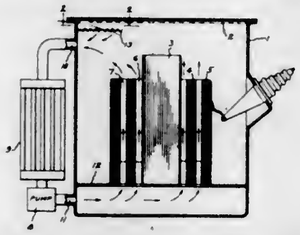
2,615,074
CABLE PULLING EYE AND METHOD OF MAKING THE SAME
Adam A. Bronovicki, Bayonne, N. J., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey
Application August 2, 1947, Serial No. 765,708
5 Claims. (Cl. 174—10)



1. The combination with an insulated electric cable, from one end of which the outer coverings and insulation have been removed to expose a short length of the conductor, of a pulling eye connected to the bared conductor end, a short length of lead sleeve only slightly larger than the cable overlying and covering both the rear end of the pulling eye and the end of the cable, a wiped joint sealing the forward end of the lead sleeve to the pulling eye, and a body of a low melting point alloy metal filling the lead sleeve from its other end.

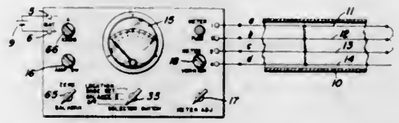
2,615,075
GAS BUBBLE ELIMINATION IN LIQUID-COOLED ELECTRICAL APPARATUS
Konstantin K. Paluev, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application October 16, 1946, Serial No. 703,540
4 Claims. (Cl. 174—15)

4. In combination, encased liquid filled induction apparatus having a winding duct, a cooler, means including a pump for withdrawing liquid near the level thereof from said apparatus, forcing it through said cooler and returning it to said apparatus so that is passes through said duct, and means including a mesh screen interposed between the level of said liquid and its point of withdrawal for preventing the formation of a vortex, said pump being located near the bottom of said apparatus so that said liquid provides an appreciable static pressure head on the suction



side thereof, said pump having a velocity pressure head which is less than said static pressure head.

2,615,076
METHOD AND APPARATUS FOR TESTING AND LOCATING FAULTS IN CONTINUOUS CONDUCTORS
Richard F. Miller, Harvard, Nebr.
Application December 13, 1948, Serial No. 64,948
11 Claims. (Cl. 175—183)

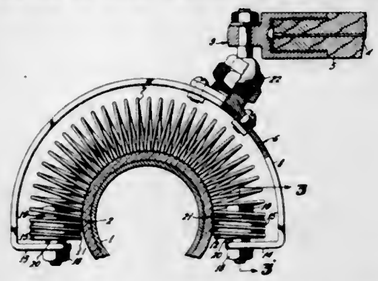


1. A device for locating faults in cables and overhead lines with a plurality of conductors comprising a testing battery, a series of terminals adapted to be connected fixedly with the faulty and clear conductors of the cable to be tested, a meter, and a meter circuit, the latter being connected with one side of the battery and including adjustable resistances, a switching means including a plurality of switch arms, each arm cooperating with a group of contacts, one of said terminals, being connected with the other side of the testing battery, a further terminal of the series which is adapted to be connected with a clear conductor, being connected with contacts of a group, cooperating with one of the individual switch arms of the switching means, a further contact of said group being connected with one side of the testing battery, said connection including a variable resistance, a further terminal of the series being connected with the clear and faulty conductors of the cable and with the contacts of a group cooperating with a further individual switch arm of the switching means, said switch arm being connected with the meter circuit, while the first named individual switch arm is connected with the other side of the testing battery.

2,615,077
ELECTRICAL PROBE
Leo H. Tinker, San Gabriel, Calif.
Application March 31, 1949, Serial No. 84,710
14 Claims. (Cl. 175—183)

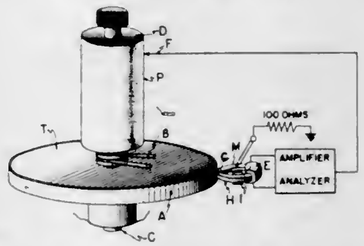
11. An electrical probing device for applying a testing potential along the surface of a coated pipe comprising a substantially semi-circular yoke member having a projection at each of its two ends extending approximately along the diameter of said semi-circle, a shaft fixed substantially perpendicular to each of said two projections each having a rotatable member thereon, a helical coiled spring extending along said yoke and having each of its ends fixed respectively to

each of said rotatable members so that said helical spring is thus rotatably mounted on said



yoke, and handle means affixed to and extending from said yoke member.

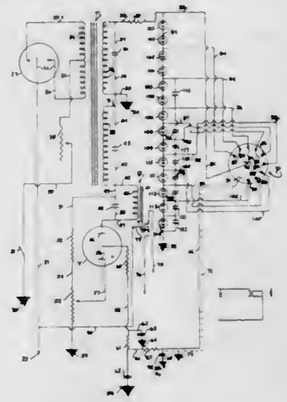
2,615,078
FREQUENCY ANALYZER SYSTEM
Harry R. Foster, East Orange, and Elmo E. Crump, West Caldwell, N. J., assignors to Ohmega Laboratories, Pine Brook, N. J.
Application December 29, 1949, Serial No. 135,668
3 Claims. (Cl. 175—183)



1. In a frequency analyzing system including a circular rotatable table or disc having at least a rim of magnetizable material and a metallic rotatable cylinder extending from the table, said cylinder carrying on its periphery a current sensitive paper with a travelling current conducting finger adapted to move along the length of the cylinder in contact with the paper an electromagnetic head having slightly spaced pole ends engageable with the said rim to pick up magnetic impulses therefrom, the winding of said electro-magnetic head being connected directly into an amplifier-analyzer the output of which has a connection to said travelling finger and applying hereto a voltage sufficient to impress a permanent record on the paper on said cylinder and means for preventing any feed back from the finger current, in the form of a suitable resistance of relatively low impedance connected between the metal of the head that is in contact with the rim of the plate and ground.

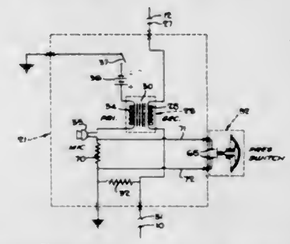
2,615,079
AUTOMATIC CONTROL FOR HEADLIGHTS OF MOTOR VEHICLES
Elbert Matthew Pardue, Wilkesboro, N. C., and Ralph Oron Higgins, Chase City, Va.
Application January 3, 1951, Serial No. 204,224
4 Claims. (Cl. 175—321)

1. In an automatic headlight control, a phototube adapted to be mounted in position on a car in which said control is installed wherein it receives light from the headlights of an approaching vehicle, said phototube including an illuminated cathode, an anode, and a plurality of dynodes, a vibrator adapted to be connected to the battery of said car to convert the direct current from said battery into alternating current, a power transformer including a primary connected to said vibrator and a pair of secondaries, one of said secondaries being connected to the cathode and dynodes of said phototube, a relay connected to the other of said secondaries, a thyratron control tube connected in series with



said relay and having a grid connected to the anode of said phototube, a switch included as a part of said relay and adapted to complete the circuit to either the high beam light relay or the low beam light relay in the car in which said control is installed, a grounded connection connected to said last mentioned secondary and bypassing said relay and thyratron control tube, and a resistor in said last mentioned connection.

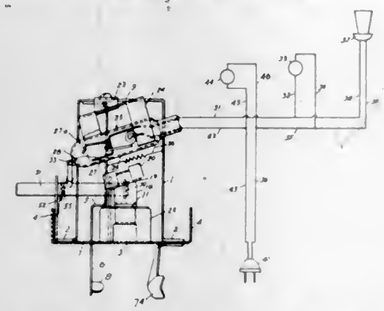
2,615,080
SOUND INDICATOR AND FLUID LEVEL INDICATOR FOR WELLS
Harry A. Mathews, Garvey, Mathew B. Riordan, Jr., Bell, and Lyle B. Scott, South Gate, Calif., assignors to Byron Jackson Co., Vernon, Calif., a corporation of Delaware
Application December 2, 1948, Serial No. 63,102
3 Claims. (Cl. 177—311)



1. A sound detector unit and liquid level indicator for a conductor cable supported tool for a well comprising: a sound detector unit connected through an electric coupling to said conductor cable providing during the presence of said tool in said well a signal continuously indicating conditions in said well; a pressure operated switch operable during submergence of said well tool below a predetermined liquid level in said well; a signal volume altering element; electrical circuits including said sound detector unit, said switch and said signal volume altering element arranged to effect, upon operation of said switch, a distinctive alteration in the volume of said sig-

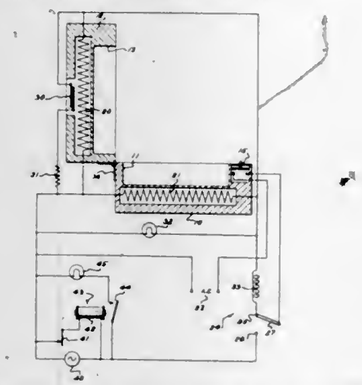
nal; and a receiver connected to said conductor cable at the well surface, said receiver being responsive through said conductor cable to said signal from said sound detector unit, and said receiver being responsive to said alteration of said signal during operation of said switch.

2,615,081
DETECTING DEVICE FOR MAGNETIZABLE MEMBERS
Ronald C. Hoff, Erie, Pa., assignor to Eriez Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application May 19, 1950, Serial No. 163,071
13 Claims. (Cl. 177—311)



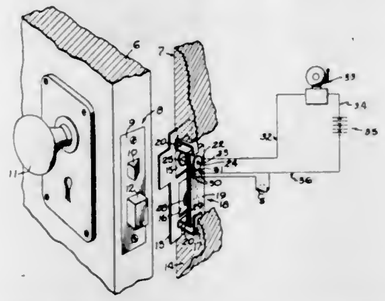
1. A device for detecting the absence of magnetizable members from conveyed magnetizable and non-magnetizable members comprising a magnet disposed a predetermined distance from passing conveyed members for attraction thereby, means for yieldingly supporting said magnet, a control member actuated upon the movement of said support member away from said conveyed members upon the absence of magnetizable members, and means for normally holding said support member and magnet in a predetermined position relative to said conveyed members, said holding means being releasable from said support member upon actuation thereof by passing conveyed magnetizable and non-magnetizable members being conveyed thereby.

2,615,082
VULCANIZING APPARATUS
Peter J. Mamola, Astoria, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 19, 1950, Serial No. 174,635
10 Claims. (Cl. 177—311)



1. In vulcanizing apparatus, a pair of mold sections, electrical resistance heating elements in each mold section, a serially connected thermal responsive switch and resistance combination shunting the heating elements in said sections, said switch being in thermal relationship with one of said sections and adapted to be closed upon attainment of a predetermined heating temperature in said mold sections, a source of current for energizing said elements, a circuit breaker connected in series with said elements and adapted to be released upon lowering of the resistance in the heating circuit due to closure of said thermal responsive switch, a visual indicator in shunt with said elements and adapted to be deenergized by said breaker, an auxiliary contact on said breaker positioned to complete a secondary circuit from said source upon release of said breaker, a synchronous timing motor in said secondary circuit, a relay having its operating coil in parallel with said synchronous motor, a pair of timing contacts controlled by said motor connected in series with said operating coil, a set of normally open contacts on said relay, and a visual indicator energizable by closure of said last named contacts, said last named visual indicator being adapted to be deenergized at the end of the timing cycle of said motor through opening of said timer contacts and deenergization of said relay coil.

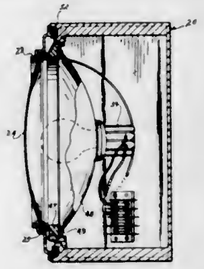
2,615,083
BURGLAR ALARM SYSTEM
August Krueger, Chicago, Ill.
Application September 21, 1946, Serial No. 698,499
2 Claims. (Cl. 177—314)



1. A combination burglar alarm and ignition system for automobile door locks of the type having a handle actuated spring latch and a key operated sliding bolt, said system comprising, in combination with a plate for mounting in the door frame and formed to receive said latch and said bolt, an alarm circuit having an alarm device therein, an ignition circuit, said circuits including a common source of current, an insulating support adapted to be mounted in spaced relation back of said plate, a normally closed switch having two terminals connected in series in said alarm circuit, said switch being mounted on said support for engagement by said latch to open the switch when projected through said plate, a second switch mounted on said support in position for operation by said bolt and having a first pair of terminals in series in said alarm circuit, a second pair of terminals in series in said ignition circuit, and having an actuator including two mechanically coupled but electrically insulated contact members for alternatively connecting the terminals of said pairs, said actuator being normally biased so that one of said contact members connects said second pair of terminals and being operable upon engagement thereof by said bolt upon its projection through

said plate into locking position to open the connection between said second pair of terminals and connect said first pair of terminals by engagement thereof by the other of said contact members, whereby retraction of said latch will cause said device to emit an alarm signal.

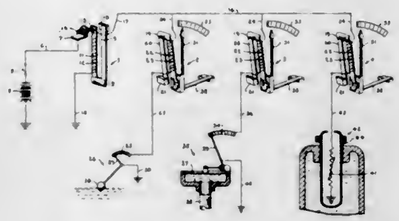
2,615,084
SIGNAL ASSEMBLY
Anton Diebold, New York, N. Y., assignor to The Marbelite Company, Inc., New York County, N. Y.
Application February 25, 1950, Serial No. 146,371
2 Claims. (Cl. 177—329)



2. A traffic signal having a pivotally mounted door on a housing and means for securing same in a locked position, a reflector orienting means comprising a reflector ring adapted to be pivotally mounted within said housing, rigid pivotal pin means for movably connecting one portion of said reflector ring to said housing, resilient pin means for resiliently connecting an opposing portion of said reflector ring to said housing, adjustment means for adjusting the degree of resiliency of last said pin means, and means for increasing the tension of last said pin means upon closure of said door

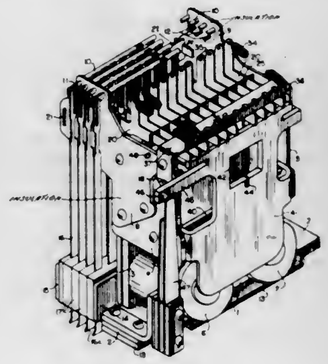
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2,615,085
ELECTRICAL INDICATING SYSTEM
Theodore J. Smulski, Gary, Ind., assignor to The Anderson Company, a corporation of Indiana
Application March 2, 1950, Serial No. 147,285
7 Claims. (Cl. 177—351)



1. In an electrical indicating system, a source of electric power, a thermally responsive voltage regulator provided with a heating element, a pair of contacts, a thermally responsive indicating instrument provided with a heating element connected to the source in series with the contacts, a variable resistor connected in circuit with the heating element of the indicating instrument to control the flow of current through the instrument, and means remote from the voltage regulator and responsive to a condition to be indicated for varying said resistor, said contacts being controlled by said thermally responsive voltage regulator and connected in series with the source of power and the heating element of the voltage regulator whereby the average voltage across said contacts will be maintained substantially constant so that said indicator is energized by said average constant voltage.

2,615,086
MECHANICAL COUNTING RELAY
Kenneth W. Graybill, Elmhurst, and Hans Sengebusch, Villa Park, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 1, 1949, Serial No. 130,454
10 Claims. (Cl. 177—353)

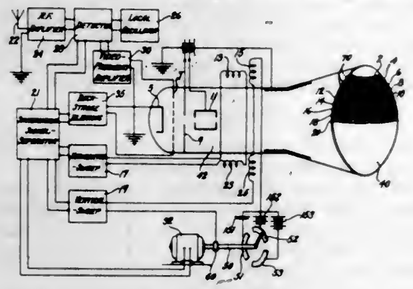


1. In a counting device including a magnet for receiving a series of magnetizing impulses, a plurality of movably mounted driving members respectively corresponding to the impulses of said series, an armature operatively associated with said magnet and movable between a released position and an attracted position along a fixed path common to said driving members, movement of said armature from its attracted position into its released position moving any one of said driving members disposed in said path to count the corresponding impulse of said series, first means normally maintaining each of said driving members except the first out of said path, second means carried by each of said driving members except the last and cooperating with said first means and responsive to the counting movement of any one of said driving members except the last for preparing the positioning of the next succeeding one of said driving members into said path, and third means responsive to movement of said armature from its released position into its attracted position for positioning any prepared one of said driving members into said path, said third means also being responsive to the second movement of said armature from its released position into its attracted position for removing the first of said driving members from said path.

2,615,087
COLOR TELEVISION SYSTEM
Robert Harvey Rines, Brookline, Mass.
Application April 17, 1944, Serial No. 531,451
31 Claims. (Cl. 178—5.4)

1. A transparent screen for incorporation at the front of a cathode-ray tube having an electron stream, the screen being provided on its face adapted to be disposed inside the tube fac-

ing the electron stream with a plurality of depressions each containing luminescent material



of width larger than the width of the electron stream.

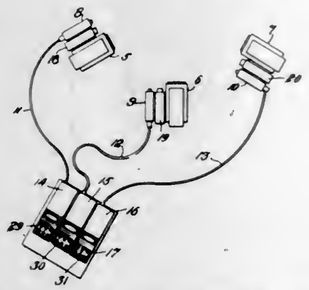
1. In a system of the character disclosed, a motion picture camera, a television camera, means for supporting said television camera in parallax relation on said motion picture camera, a television monitor and a camera transmission cable connection from said television camera to said monitor, said mounting means including a bracket for clamping said television camera to the moving picture camera and a leg for movably supporting the weight of said television camera and the cable connection extending therefrom.

2,615,088

SUPERVISORY CONTROL SYSTEM FOR FILMING TELEVISION AND OTHER PICTURES

Lawrence L. Gordon, New York, N. Y.

Application January 5, 1951, Serial No. 204,560
2 Claims. (Cl. 178—6)



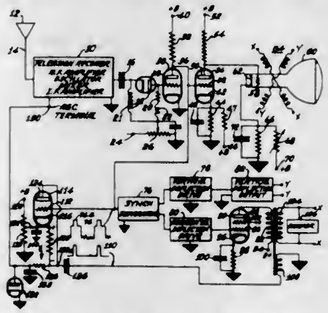
2,615,089

KEYED AUTOMATIC GAIN CONTROL SYSTEM

Gordon F. Rogers, New Hyde Park, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 18, 1948, Serial No. 66,054
1 Claim. (Cl. 178—7.5)

In a television receiver adapted to receive a television signal including a recurrent pulse component, a circuit to obtain an automatic gain control potential comprising a unilateral conduction device having a cathode, a control electrode and an anode, a source of keying pulses positive with respect to ground and bearing a synchronous relationship to the recurrent pulse component of said television signal, means to apply to the control electrode of said unilateral conduction device television signals with such polarity that an increase in signal strength tends to increase the electron flow in said unilateral conduction device, means to apply to the cathode of said unilateral conduction device a positive biasing potential to prevent said unilateral conduction device from conducting outside the occurrence of said keying pulses, a resistor connected between said anode and said cathode to provide a direct current path therebetween, means to apply said keying pulses to the anode of said unilateral conduction device as the sole energization potential applied to said anode, the keying pulses being of sufficient magnitude to



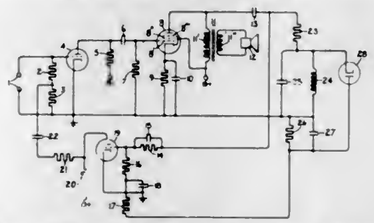
cause in said unilateral conducting device a flow of electrons whose intensity is a function of the strength of the television signals applied to the control electrode of said unilateral conduction device, a storage capacitor effectively connected between said anode and ground to store said electrons, a resistance in parallel with said capacitor as a discharge path for said stored electrons, and a connection from the ungrounded side of said capacitor to said receiver to control the gain thereof.

2,615,090

AUTOMATIC TONE CONTROL

Wolf J. Gruen, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

Application April 1, 1948, Serial No. 18,339
4 Claims. (Cl. 178—44)



1. An audio amplifying system having an input circuit and an output circuit, means for impressing signals on said input circuit having frequencies extending over a predetermined range of audio frequencies, means for deriving amplified output signals from said output circuit, means for varying the frequency response of said amplifying system in response to signals amplified thereby and lying within a first predetermined narrow audio frequency band, said last-mentioned means comprising an inverse feedback circuit coupling said output circuit to said input circuit, frequency selective control means included in said feedback circuit, said control means being arranged to supply output signals within said band degeneratively to said input circuit, additional frequency selective circuit means and rectifying means coupled to said output circuit for deriving a unidirectional control potential in response to output signals lying within

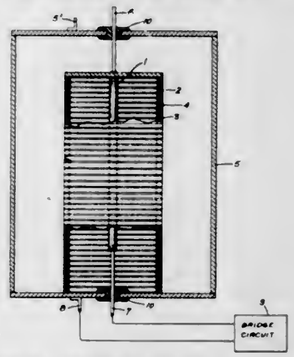
a second predetermined narrow audio frequency band, the magnitude of said control potential being dependent upon the energy content of said last-mentioned signals, and means for impressing said control potential on said control means for controlling the feedback and the frequency response of said system.

2,615,091

SCREENED HIGH-FREQUENCY CIRCUIT ELEMENT

Robert Keitley, Rugby, England, assignor to General Electric Company, a corporation of New York

Application November 26, 1948, Serial No. 61,983
In Great Britain November 14, 1947
2 Claims. (Cl. 178—44)



1. A screened resistive circuit element adapted for use at different frequencies comprising an elongated resistor extending between terminal end portions, a conductive disc connected to one of said portions and extending perpendicularly from said resistor around said one portion, a hollow cylindrical member comprising at least two conductive plates separated by a dielectric material and being of an outside diameter substantially equal to that of said disc arranged to contact said disc at a peripheral portion thereof and substantially coaxially to surround said resistor, the axial length of said member being greater than that of said resistor whereby said member extends beyond the other of said end portions, an electrode for the extending end of said member, an impedance connecting said other terminal portion to said electrode, and means to apply a signal voltage between said one terminal portion and said electrode, said impedance and the extending portion of said member being relatively proportioned to provide equal signal voltages at the said other terminal portion and at that portion of said member lying in a plane perpendicular to the axis of said resistor at said other end, and said resistor and said screen being relatively proportioned for the coextensive portions to provide substantially equal potential gradients therealong throughout said coextensive portions thereby to reduce capacity effects at high frequencies.

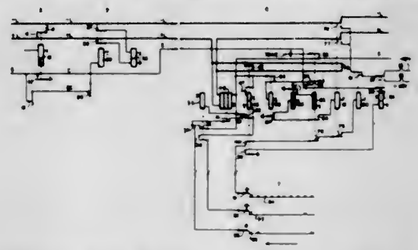
2,615,092

DISCRIMINATING SERVICE TELEPHONE SYSTEM

Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application March 5, 1947, Serial No. 732,418
10 Claims. (Cl. 179—6.3)

10. In a telephone system having calling and called paystation and non-paystation lines, a finder-selector link having access to any of said lines for establishing a talking connection therebetween, said finder of said link having the lines of said paystations connected to certain ones of its levels and the lines of said non-paystations connected to the remaining ones of its levels, a control trunk, said selector of said link having said control trunk connected to a predetermined one of its levels, means in said finder of said link operated responsive to the initiation of a call from any one of said lines for automatically



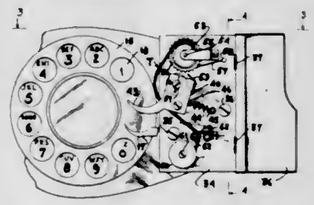
connecting said finder with said calling line, normal post springs in said finder operated only in case said finder connects with said certain levels having said paystation lines connected thereto, and means including discriminating means in said selector of said link controlled responsive to said operation of said normal post springs for automatically operating said selector to step to said predetermined level, whereby said calling paystation line is connected to said control trunk prior to dialling of the desired call number.

2,615,093

PHONE CALL RECORDER

William Frank Weyrauch, Elmwood Park, Ill.

Application October 21, 1949, Serial No. 122,643
11 Claims. (Cl. 179—7)



6. In a recording device of the character described, a rotatably mounted gig adapted for operative association with the dial member of the telephone, and a selectively operable recording element carried by said gig.

2,615,094

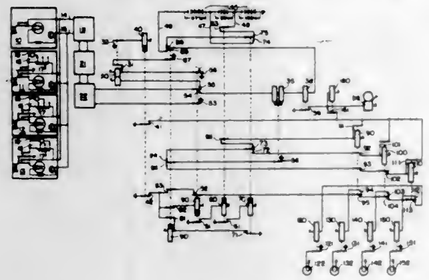
STATION IDENTIFICATION FOR PARTY LINES

Len B. Mitchell, Wheaton, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application December 10, 1949, Serial No. 132,240
11 Claims. (Cl. 179—17)

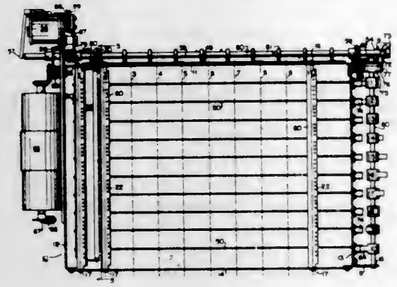
1. In a telephone system, a two-conductor line having at least two subscribers' stations, means for connecting one of said stations to said line, a network including a non-linear element at at least two of said stations, said networks being adjusted to allow said non-linear elements to conduct, each at a different applied voltage, a source of current supplying different voltage of unvary-

ing polarity which will render said non-linear elements conductive, means for applying said voltages sequentially to said line beginning with the lowest voltage, means for indicating which



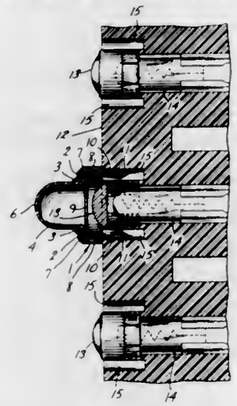
one of the non-linear element is connected to said line, and means operated responsive to the passage of current through one of said non-linear elements for operating said last mentioned means.

2,615,095
SWITCHING APPARATUS
Kenneth W. Graybill, Elmhurst, and Hans Sengebusch, Villa Park, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application February 16, 1950, Serial No. 144,522
10 Claims. (Cl. 179—27.54)



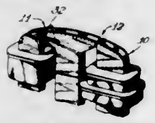
1. In an automatic switching device, a plurality of bare conductors arranged in rows substantially parallel to each other, a common conductor comprising a metallic strip fixed across said plurality of bare conductors but having no normal connections thereto, a plurality of contact members extending from said common conductor strip each adapted to be connected to one of said bare conductors, a plurality of actuators for operating said plurality of contact members, said actuators normally in positions ineffective for operating said contact members, a rotatable bar having a depression in its surface, a latch engaging said depression to lock said bar against rotation, means for moving all said actuators to effective operating positions simultaneously preparatory to causing the operation of any of said contact members, means for ejecting said latch from said depression in said bar to free said bar for rotation, means for rotating said freed bar a fixed distance, means responsive to said rotation of said bar for operating one of said actuators in said operating position to urge one of said contact member into contact with one of said bare conductors, thereby to connect said common conductor to said last mentioned bare conductor.

2,615,096
INDICATOR FOR TELEPHONE SWITCHBOARDS
John Francis Welch, Douglaston, N. Y.
Application August 18, 1949, Serial No. 110,897
6 Claims. (Cl. 179—94)



1. In combination, a switchboard of the type having an annunciator that is illuminated when a call is to be answered and two holes immediately adjacent each side of the annunciator, and a transparent colored cap having means mounted thereon which are insertable into said holes for securing said cap in front of said annunciator.

2,615,097
DEVICE FOR INCREASING THE EFFECTIVENESS OF THE TRANSDUCING FIELD OF A MAGNETIC HEAD
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Application January 12, 1949, Serial No. 70,448
9 Claims. (Cl. 179—100.2)

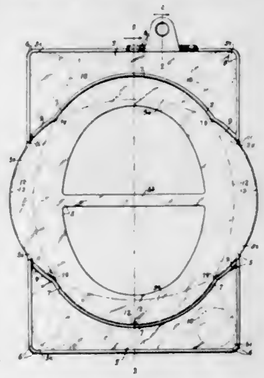


8. In an electromagnetic transducer head, a core having a pair of spaced upstanding legs terminating in confronting pole portions with a gap therebetween, over which a magnetic record member is arranged to pass, a current carrying spacer member of high electrical conductivity extending from one pole portion to the other and making mechanical contact with each, said spacer member extending laterally and downwardly appreciably beyond the confines of said gap but leaving open a substantial portion of the space between said legs, said spacer member having a field generated thereabout to augment the normal gap flux passing through said record member as it spans said gap.

2,615,098
SUPPORTING STAND FOR TELEPHONES AND LAMPS
William C. O'Brien, Baltimore, Md.
Application November 13, 1948, Serial No. 59,942
2 Claims. (Cl. 179—147)

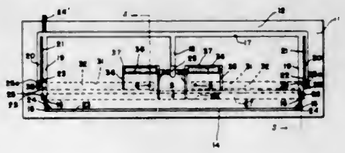
1. In a stand for supporting a dial-telephone, a unit comprising a base-plate having corner-

portions to receive and support corners of a rectangular telephone-base of a dial-telephone, angular wall-portions projecting upward from said corner-portions and comprising means to abut against said corners for confining said telephone-base against excessive horizontal displacement while permitting the telephone-base to be lifted away from said angular wall-portions, said base-plate having an elliptical seat for receiving an elliptical base of a dial-telephone when said



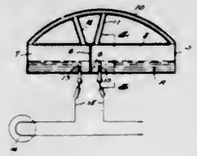
rectangular telephone-base is absent from said angular wall-portions, an arrangement of abutments united with said base-plate at opposite sides of end-portions of said elliptical seat and comprising means to abut against end-portions of said elliptical base for confining the latter against excessive horizontal displacement, said abutments being wall-portions that are arcuate to conform to the normally adjacent portions of an elliptical base of a dial-telephone and being considerably lower than said angular wall portions.

2,615,099
LEVEL SENSITIVE SWITCH
Raymond Alvah Hanson, Palouse, Wash.
Application May 16, 1950, Serial No. 162,156
4 Claims. (Cl. 200—33)



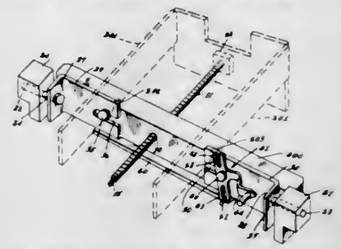
1. A switch comprising an elongated body having opposed side faces, a cover plate for one side face of said body, the said one side face of said body being formed with a longitudinally extending groove near its lower edge and with a second longitudinally extending groove near its upper edge, the upper groove having each end communicating with downwardly extending grooves spaced laterally from each other and constituting pairs of companion inner and outer pockets, the pockets of each pair being separated from each other by a partition formed near its lower end with a minute perforation establishing communication between the companion inner and outer pockets, a tube extending longitudinally in the lower groove and having end portions extending upwardly and communicating with lower ends of the inner pockets, said tube being filled with mercury, a portion of said mercury extends into lower ends of the inner pockets and normally terminates below the perforations, the outer pockets also having mercury in their lower ends spaced downwardly from the perforations in the partitions and the upper groove having leading therefrom a depending groove constituting a reservoir for a reserve supply of mercury, a lower conductor strip and a pair of upper conductor strips mounted in grooves formed in the other side face of said body, screws securing ends of the lower strip to the body and entering lower ends of the inner pockets a screw intermediate the length of the lower strip serving to connect a conductor wire with the lower strip, screws securing inner and outer ends of the upper strips, its outer screws entering lower ends of the outer pockets and the inner screws serving to connect conductor wires with the upper strips, and recesses formed in said body and adapted to receive condensers for connection with the upper and lower strips in bridging relation thereto.

2,615,100
DELAYED ELECTRIC MERCURY SWITCH
Albert John Weaver, San Antonio, Tex.
Application August 16, 1950, Serial No. 179,714
2 Claims. (Cl. 200—33)



1. In a delayed mercury switch, a tiltable main switch tube, a partition dividing the switch tube into compartments, said partition having an opening adjacent to the bottom thereof through which mercury gradually flows from one compartment to the other, contact members mounted within the compartments at opposite sides of the partition and adjacent to the partition, said tube containing mercury adapted to contact with said contact members simultaneously, a curved tube connecting the outer ends of the compartments and being in communication with said compartments, and tubes establishing communication between the inner ends of the compartments and said curved tube, at a point intermediate the ends of the curved tube.

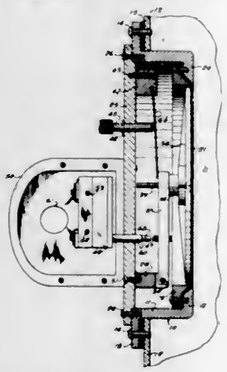
2,615,101
SLIDING BOLT RACK MECHANISM
Arthur S. Caswell, Philadelphia, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 19, 1950, Serial No. 185,572
9 Claims. (Cl. 200—50)



1. In a racking mechanism for circuit breakers; a cubicle for housing a circuit breaker; a racking bar having an opening; a racking screw

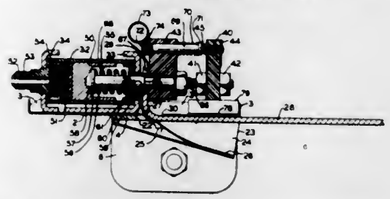
extending through said opening; a circuit breaker mechanism carrying said racking screw and mountable for movement with said racking screw; said racking screw having screw threads engaging with threads in said opening to permit relative movement of said racking screw and the circuit breaker with respect to said racking bar when said racking screw is rotated; a slide member for each end of said racking bar, each slide member having a slotted end; a bolt extending from each end of said racking bar into the slot of the adjacent slide member; a three-way crank mounted adjacent one of said slide members, said crank having a lock and unlock position and a pair of bifurcated crank extensions thereon, a pin connected to said one of said slide members and extending through one of the bifurcated crank extensions, a connecting rod connected at one end of the other of said slide members and having a pin at its other end extending through the other of said pair of bifurcated cranks, said three way crank when rotated causing movement of said slide bars in a direction longitudinally of said racking bars said slide bars moving in opposite directions; a pin extending from each of said slide bars; a bearing mounted on the side walls of said cubicle for receiving said slide member pins when said slide bars have been moved longitudinally away from said racking bar in response to the rotation of said three-way crank to its locked position; said pins when extended into said bearings acting to anchor said racking bar so that when said screw is rotated, said screw and the circuit breaker carrying said screw is moved relative to said racking bar and cubicle; downwardly extending flanges mounted on said circuit breaker, said flanges being in the path of movement of said slide members; said flanges having slots through which slide bars can move to unlocked position when said circuit breaker has been moved to its racked out position, and a flange on said cubicle for preventing entry of said circuit breaker into said cubicle while said slide members are in extended or locked position.

2,615,102
BIN LEVEL SWITCH
Charles W. McMath, Fort Worth, Tex.
Application September 25, 1950, Serial No. 186,663
6 Claims. (Cl. 200—52)



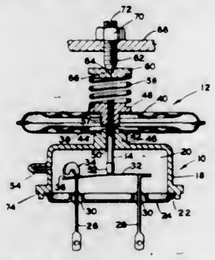
3. A pressure responsive device comprising a hollow base section; a resilient diaphragm secured to said base section and closing off one end of said base section; a backing plate movably disposed in said base section and having one side abutting one side of said diaphragm, said backing plate substantially closing off said one end of said base section; a cover plate secured to said base section and closing off the other end of said hollow base section; a switch mounted on said cover plate exteriorly of said base section, said cover plate being provided with an aperture, said switch having an operating member extending through said aperture into said base section; a lever pivoted at one ned to said cover plate and connected at its opposite end to the center of said backing plate and having engagement with said operating member for actuating said switch upon movement of said backing plate toward said cover plate, means biasing said backing plate toward said diaphragm and means for adjusting the tension on said biasing means.

2,615,103
ELECTRIC CONTROL FOR TRAILER BRAKES
Charles R. Bacca, Newtown, Ohio
Application July 30, 1949, Serial No. 107,703
18 Claims. (Cl. 200—82)



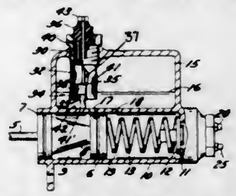
12. A circuit control device comprising a contact plate member adapted to be connected to an electrical circuit, a support member carrying a series of contact points disposed adjacent said plate member, means for movably mounting one of said members in respect to the other member, a spring means for normally holding the movable member out of contact with the other member, supplementary spring means for resisting movement of the movable member, and means mounted on one of said members for adjusting the tension of the supplementary spring means.

2,615,104
PRESSURE RESPONSIVE SWITCH
Norman F. Hosford, Towaco, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application October 31, 1949, Serial No. 124,672
11 Claims. (Cl. 200—83)



2. In a pressure responsive switch device, the combination comprising an aneroid, a switch chamber having a gas therein, said aneroid and said chamber being sealed to the encompassing atmosphere, means communicating said chamber with the interior of said aneroid and permitting flow of gas therebetween, a pair of relatively movable switch contacts within said casing, means associated with said aneroid for causing relative movement between said contacts in response to changes in ambient pressure to make and break engagement between said contacts at a predetermined pressure, and means for adjusting said last named means for causing said contacts to engage at a desired pressure.

2,615,105
HYDRAULIC BRAKE MASTER CYLINDER RESERVOIR FLOAT SWITCH
David M. Whitney, Toledo, Ohio
Application February 21, 1949, Serial No. 77,602
3 Claims. (Cl. 200—84)



1. A brake fluid level warning device adapted for attachment to a master cylinder reservoir and functioning to operate an electrical signal on a vehicle, said device comprising a hollow plug having an externally threaded portion for screwing said threaded portion into and out of the reservoir, a cylindrical float operable by change of level of the fluid in the reservoir, there being a cylindrical guide in which the float operates, said cylindrical guide extending downwardly from said plug into the reservoir and normally into the fluid to coact with said float to retard its operation, an electrically conducting guide rod axial of said plug extending above said plug to an electrical terminal and extending into the reservoir short of the extension of said cylindrical guide, an electrical insulation ring supporting said guide rod in said plug and closing the hollow space in said plug, electrical conducting means fixed with and vertically extending away from said float, adapted for closing a circuit with said guide rod when said float is at a critical level for the fluid in the reservoir.

2,615,106
SNAP ACTION DEVICE
Joseph Schmidinger, Lake George, N. Y.
Application July 21, 1951, Serial No. 237,958
24 Claims. (Cl. 200—113)



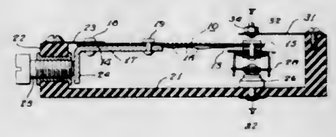
1. A snap action device comprising a disc of resilient material having an inherent diametral deformation therein, laterally flexible pull means secured to the disc at opposite ends of the deformation therein and extending along the convex side thereof, and means disposed adjacent the center of the disc and secured to said pull means for supporting the device and tensioning the pull means, said disc being wholly supported by said pull means.

2,615,107
CIRCUIT PROTECTIVE DEVICE
George V. Zito, Jersey City, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application September 29, 1949, Serial No. 118,635
5 Claims. (Cl. 200—122)

2. In a circuit protective device, the combination comprising a tube, a cap closing each end of said tube, an open electrical contact within said tube, spring means biasing said contact towards closed position, an inflammable strand assembly restraining said spring, a resistance wire entwined about said strand assembly adapted upon overheating thereof to ignite said strand assembly thereby freeing said spring to close said contact.



2,615,108
SNAP-ACTING BIMETAL THERMOSTAT
Paul R. Lee, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 19, 1947, Serial No. 774,949
10 Claims. (Cl. 200—139)

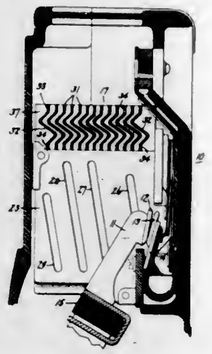


1. A thermostat comprising a support, an inherently snap acting bimetal thermal element mounted thereon, a contact carried by a movable portion of said bimetal element, a stationary contact mounted on said support cooperating with said first contact and serving to limit the movement of said bimetal element in contact-closing direction, and resilient stop means mounted on said support in such position as to engage said bimetal element upon movement in contact-opening direction and biasing the same in contact-closing direction to raise the contact-closing temperature, said resilient stop means having substantially the same pressure-deflection characteristic that said bimetal element has when it is in contact-opening position, and the movement of said resilient stop means being limited so that it does not engage said bimetal element when the latter is in contact-closing position.

2,615,109
ZIGZAG MAGNETIC LABYRINTH ARC MUFFLER
John A. Favre, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application January 25, 1950, Serial No. 140,414
5 Claims. (Cl. 200—147)

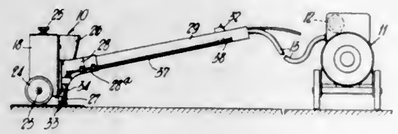
1. An arc muffler having in combination a plurality of magnetic members, each provided with offset zigzag corrugations projecting laterally on opposite sides thereof, and insulating means for mounting the members in juxtaposition with the oppositely projecting corrugations of adjacent members in nested spaced-apart relation on opposite sides of the longitudinal axis of the zigzag passage formed therebetween to

concentrate the magnetic mass of the members for attracting the arc and to intercept particles



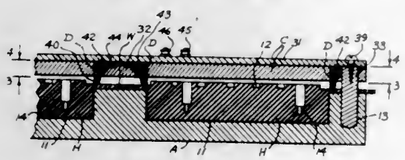
projected with the arc gases into the zigzag passage.

2,615,110
DIRIGIBLE AUTOMOTIVE ARC WELDER
Ernest W. Gommel, El Cerrito, Calif., assignor to United States Steel Company, a corporation of New Jersey
Application November 25, 1950, Serial No. 197,577
2 Claims. (Cl. 219—8)



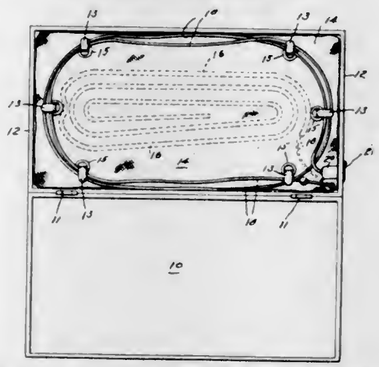
1. An automotive arc welder comprising a vertically upstanding tubular motor housing having a flat face on one side, a pair of spaced supporting wheels journaled on a common axis adjacent the lower end of said housing, adapted to travel on a workpiece, a motor in said housing driving said wheels, a hopper on said one side of said housing having a flat face in flatwise engagement with the flat face of the housing and a spout adapted to deposit welding flux on the workpiece along a line between said wheels, an electrode guide tube extending through said spout, and a manipulating handle having a bifurcated end embracing said hopper, said end being secured to said housing and extending generally normal to said axis whereby an electrode protruding from said tube may be caused to move toward or away from the workpiece by tilting said handle downwardly and upwardly, respectively.

2,615,111
TRIMMING DEVICE
Robert G. Paquette, Windsor, Vt., and Conrad T. Paquette, Claremont, N. H.
Application April 30, 1949, Serial No. 90,644
1 Claim. (Cl. 219—19)



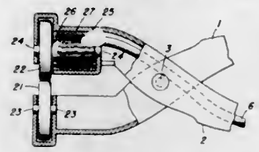
In a device for severing the excess web of rubber on the periphery of a molded rubber heel the combination of a stationary molding plate having a rubber heel cavity therein and a guide pin hole therein; a vertically movable trimmer plate having depending guide pins each engaged in one of said guide pin holes; a downwardly depending trimming blade, in the form of a closed figure exactly duplicating the periphery of said molded rubber heel, said trimming blade being folded outwardly and back upon itself to form a continuous recess and being fixed to said trimmer plate and an electric resistance coil, within said trimmer blade and imbedded in refractory cement entirely filling said continuous recess.

2,615,112
HEATED CARRYING CASE
David A. Lagan, Jr., Santa Rosa, Calif.
Application January 5, 1952, Serial No. 265,188
2 Claims. (Cl. 219—19)



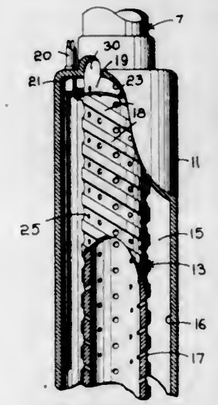
1. An improved carrying case comprising in combination, a case having a body and cover portion, a heating pad located in one of said case portions, lugs attached to one of said case portions, said pad being mounted on said lugs, an electric plug receiving receptacle located in one of said case portions and communicating with the exterior of said case, an electric cord connected with said plug and said pad, the said cord being mounted on said lugs when said cord is retracted within said case.

2,615,113
HEAT-SEALING TOOL
Jack Frye, Sedona, Ariz.
Application November 24, 1947, Serial No. 787,801
3 Claims. (Cl. 219—21)



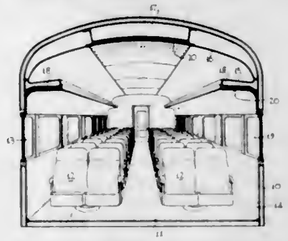
1. A heat-sealing tool of plier-like construction comprising a pair of crossed pivoted arms forming handles at one end and jaws at their other end, a fixed electrical heating element mounted on the jaw end of at least one of said arms, a roller mounted on said jaw, said roller having a portion of relatively large diameter forming the inner face of said jaw, and a portion of relatively small diameter surrounded by said heating element, and a roller mounted in the jaw end of said other arm and forming the inner face thereof, a journal for rotatably mounting each roller, a fixed support within the jaw, one end of said journal being mounted in a jaw end and the other on said fixed support, said rollers contacting each other when said tool is closed.

2,615,114
ELECTRIC OIL WELL HEATER
Fred Colby, Beaumont, Tex.
Application March 3, 1950, Serial No. 147,476
2 Claims. (Cl. 219—33)



1. A device for eliminating solid paraffin from the oil flow in a string of well pipe and for eradicating accumulated paraffin from such pipe comprising, a closed hollow cylindrical housing, means to secure said housing to the flow string, a hollow element in said housing and connected at each end to the flow string, said element being of substantially the same diameter as the flow string and extending longitudinally in said housing and spaced from the cylindrical side walls of said housing to provide a passage for oil flow, spiral heating coils secured to the outer periphery of said element, an electrical conduit connected through said housing and into said coils, said element having perforations between said spiral coils and extending throughout the length of said element whereby the oil passing through the flow string passes through and around said element and into said passage between said element and said housing to provide intimate contact between said heating coils and the oil in said flow string.

2,615,115
SPACE-HEATING MEANS
Michael Watter, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 30, 1949, Serial No. 118,801
2 Claims. (Cl. 219—34)



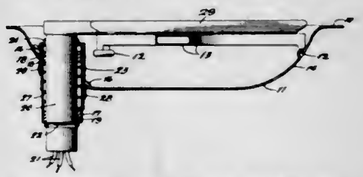
1. Heating means for a compartment comprising a duct and a thin diffuser plate thereover for supplying diffused air at a low velocity through the plate throughout its surface area to said compartment, the diffuser plate presenting a smooth wall surface to the interior of the compartment and having a great number of small holes therethrough over its entire surface, and thin local heating means spread over the plate for heating said diffuser plate throughout its entire area without obstructing the air diffuser holes to make of it a radiant heating panel, as well as an air diffuser panel, said heating means comprising a continuous electrical resistance heating blanket secured on the back of said diffuser sheet and having holes "registering" with the holes in said diffuser sheet.

2,615,116
MEANS FOR SETTING NYLON
George A. Hayes, East Greenwich, and Erich Schmidt, Providence, R. I., assignors to Riverpoint Lace Works, Inc., West Warwick, R. I., a corporation of Rhode Island
Application October 12, 1949, Serial No. 121,036
8 Claims. (Cl. 219—34)



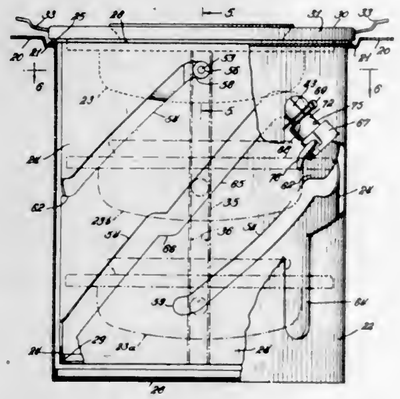
1. An apparatus for setting nylon material, comprising a plurality of adjustable supports, a housing mounted on said supports, means for moving the nylon material through said housing at a predetermined rate of speed, spaced heating elements mounted on the bottom of said housing beneath said moving material to heat said material to a predetermined temperature, the bottom of said housing and said heating elements being arcuately supported by said supports to conform to the sagging contour of said material and means for preventing contact between said material and said heating elements.

2,615,117
ELECTRIC COOKING ELEMENT AND RANGE TOP
Harley Tillapaugh, Greenville, Mich., assignor to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan
Application March 26, 1949, Serial No. 83,644
8 Claims. (Cl. 219—37)



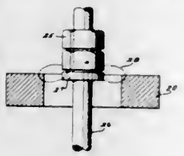
1. In an electric range top having a burner opening and a downwardly and inwardly inclined wall therein, a resistance element in said opening, a sleeve supported in said inclined wall, a post fixed to said resistance element and adapted to slide within said sleeve, and a cap guard fixed to and enclosing said post and having an inclined lower edge engageable with said inclined wall to elevate said post when said element is rotated in one direction and to lower said post when said element is rotated in the other direction, said inclined edge of the guard and the burner wall normally resisting return of said post when said resistance element is swung away from said opening.

2,615,118
RAISING AND LOWERING FACILITIES FOR DEEP WELL COOKER HEATERS
William D. Kelly, Western Springs, Ill., assignor to Tuttle & Kift, Inc., Chicago, Ill., a corporation of Illinois
Application April 16, 1949, Serial No. 87,875
1 Claim. (Cl. 219—37)



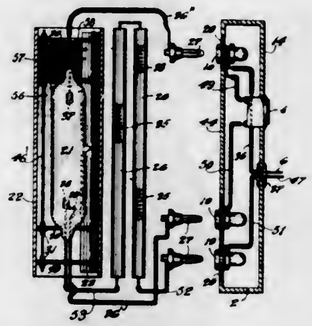
In a deep well cooker of the class described, the combination of a range top having an opening therethrough, a double walled well enclosure extending downwardly from said opening and composed of inner and outer cylindrical walls, the outer cylindrical wall being suspended at its upper end from the range top and held thereby against rotation, and the inner cylindrical wall being rotatably mounted within the outer cylindrical wall, and a heater which is located within and raised and lowered by rotation of the inner cylindrical wall, said inner wall having a plurality of corresponding spiral slots therethrough and equally spaced therearound and said heater having radial extensions therearound and being supported by engagement of said extensions in said spiral slots, said outer wall having on the inner face thereof a vertical channel into which one of said extensions projects.

2,615,119
STEEL NUT AND METHOD OF MAKING
Glen C. Riegel, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application August 21, 1947, Serial No. 769,890
1 Claim. (Cl. 219—47)



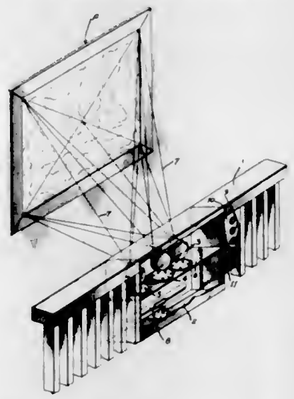
The method of preparing and heating blanks for steel nuts in a hardening process to provide a hard wrench surface and a hardened washer face which comprises, cutting away a portion of the exterior of the nut adjacent the washer face, then passing a plurality of nuts through a high frequency current heat inducing field with the nuts in contact with each other and their washer faces in a leading position.

2,615,120
POCKET SUN HEALTH LAMP
Michel E. Macksoud, Flushing, N. Y.
Application December 23, 1949, Serial No. 134,799
5 Claims. (Cl. 240—1)



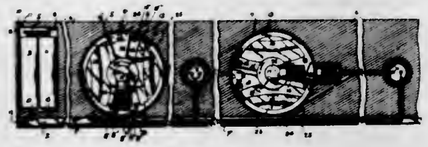
1. A pocket sun health lamp having a case, a small mercury arc tube capable of generating and emitting ultra-violet light, a cylindrical filter surrounding said tube, a ballast resistor, and means for mounting said tube, filter and resistor in the case, said means comprising a housing mounted on the case and having sockets therein, a base, a cradle supported by said base, a plurality of apertured discs mounted in said filter, the apertures in said discs surrounding the opposite end portions of said tube and securing said tube in spaced relation in said filter, said cradle supporting said filter, tube mounted therein and said resistor, and end cover clamps surrounding the end portions of said filter and base and securing said tube, filter, resistor and base together, and plugs secured to said base positioned in said sockets for securing said base to said housing.

2,615,121
ILLUMINATING SYSTEM FOR PAINTINGS AND THE LIKE
Warren Earle Cox, New York, N. Y.
Application May 12, 1949, Serial No. 92,909
1 Claim. (Cl. 240—3.1)



In an installation for illuminating and viewing paintings and the like, a base, a plurality of independent light sources on said base generally equidistant from the painting, each light source having associated therewith means for directing a beam of light simultaneously and uniformly against the entire surface of the painting, with each such beam defined to conform precisely to the field of the painting, the field of all the beams precisely coinciding, each such beam being precisely focused upon the painting, means for differentially coloring each such beam, the intensity of each beam being different from that of the other beams, and means for independently controlling the intensity of each beam.

2,615,122
ILLUMINATED LEVEL
Forrest D. Coombs, Westwood, Mass.
Application January 20, 1950, Serial No. 139,727
2 Claims. (Cl. 240—6.44)



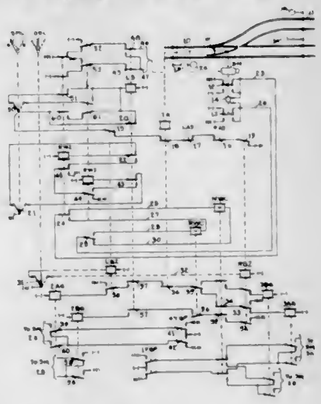
1. A mechanic's spirit level comprising, an elongated metal frame having longitudinally spaced enlarged holes extending laterally therethrough and an elongated groove formed in the bottom wall, resilient contacts carried by the frame with their outer ends extending into the aforesaid enlarged holes therein, cylindrical levelling units formed of dielectric material removably and adjustably disposed in said enlarged holes in the frame, light bulb sockets in the units, electric light bulbs removably disposed in said sockets, spirit level tubes in the units on opposite sides of the light bulbs, laterally spaced light shields in the units on opposite sides of the light bulbs and having substantially semi-spherical sockets in their inner opposed surfaces enclosing opposite side portions of the light bulbs, an arcuate contact in the peripheries of the units and electrically connecting the electric sockets therein to the resilient contacts extending into the enlarged holes of the frame, batteries in an end compartment in the frame, an electric circuit including button switches connecting the batteries to the illuminated units, lenses covering opposite sides of the illuminated units, and resilient rings removably disposed in grooves in the walls of the aforesaid enlarged holes and securing the lenses and units therein.

2,615,123
CEILING FIXTURE FOR FLUORESCENT LAMPS
Edwin F. Guth, Florissant, Mo.
Application October 25, 1947, Serial No. 782,160
8 Claims. (Cl. 240—51.11)



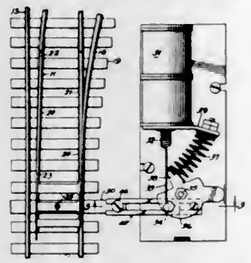
1. A ceiling fixture for fluorescent lamps comprising an elongate open-bottomed housing for attachment to a ceiling, said housing having a ceiling plate comprising an elongate downwardly opening channel narrower and shallower than the housing extending the length of the housing, an elongate trough having a width corresponding to the width of the channel and a depth greater than the depth of the channel adapted to fit within the housing, spring reel counterbalancing means connecting the trough to the housing and counterbalancing the weight of the trough and elements carried thereby, the trough having a raised horizontal ceiling position within the housing wherein it is slidably received at its top in the channel and a lowered servicing position, lamp sockets on opposite sides of the trough at the ends thereof for holding elongate lamps extending the length of the trough on opposite sides thereof, an electrical connector element on the trough electrically connected to the sockets, a cooperating electrical connector element fixed within the housing for engagement by the first-mentioned connector element when the trough is in its raised ceiling position, and a latch for latching the trough in its raised ceiling position.

2,615,124
SWITCH AND SIGNAL CONTROL SYSTEM FOR RAILROADS
Waltrus L. Livingston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application October 14, 1946, Serial No. 703,173
3 Claims. (Cl. 246—220)



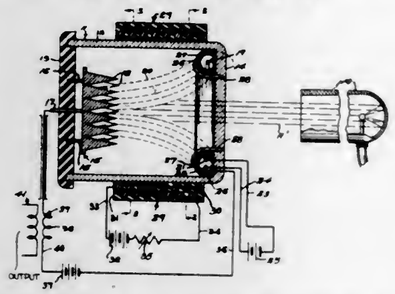
1. In combination, means for designating the respective normal and reverse positions to which a track switch is to be power operated, a point detector contact mechanism directly connected to the track switch, electro-responsive means selectively energized to normal or reverse positions to correspond with designated positions for the power operation of said track switch, normal and reverse switch correspondence relays having magnetic structures rendering them responsive only to a particular polarity of energization, and circuits for energizing the windings of said normal and said reverse correspondence relays respectively, said circuits being effective to pick up said normal or said reverse correspondence relay only when said track switch and said electro-responsive means are in corresponding normal or reverse positions, said circuits including a pair of control wires extending from said point detector contact mechanism, said pair of control wires being common to circuits for the windings of both correspondence relays, and said pair of control wires being selectively energized with one polarity or the other by the operation of said contact mechanism, said correspondence relays being poled in their respective circuits to be responsive only to opposite polarities of energization of said pair of control wires, and each of said switch correspondence relays being disconnected at both sides of its windings from said pair of wires when the opposite position of the track switch is selected by said electro-responsive means.

2,615,125
SWITCH MECHANISM FOR MODEL RAILROADS
Howard B. Peabody, Lake Forest, Ill., assignor to The Pioneer Company, Chicago, Ill., a partnership
Application December 21, 1951, Serial No. 262,853
3 Claims. (Cl. 246—236)



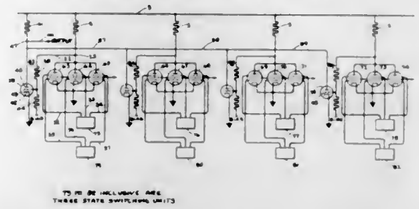
1. In a switching mechanism for model railroads having an actuating member of constant stroke between operated and return positions of adjustment and a cross arm member adapted to be actuated thereby for movement of variable magnitude to shift the switch tracks into position of use comprising a crank plate pivotally mounted and connected directly to said actuating means for movement between operated and return positions of adjustment, a pin depending from said plate offset from its pivot, and a link assembly comprising a pair of elongate strips of substantially rigid material having slots extending substantially completely therethrough, means adjustably securing the strips in overlapping relation to provide a slotted portion of adjustable length through which the pin extends to impart reciprocable movement to the link assembly varying in magnitude depending upon the length of the slot, and means for securing the link assembly to the cross arm for transmitting movement from said pin to the switch tracks.

2,615,126
NARROW BEAM RECEIVING ANTENNA
Paul A. Kennebeck, Grand Prairie, Tex.
Application December 3, 1948, Serial No. 63,225
10 Claims. (Cl. 250—1)



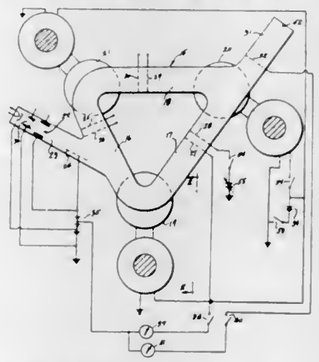
4. In a receiving antenna: a housing; a plate mounted in said housing, said plate having a plurality of protrusions extending outwardly on one side thereof, a cathode secured to said housing, said cathode being disposed spaced apart from that side of said plate on which said protrusions are disposed, said cathode having at least one aperture therethrough for permitting signals to pass therethrough in operation to reach said plate, said cathode being of ring shape, and a focusing coil extended around said housing and positioned between planes extended through the plate and cathode.

2,615,127
ELECTRONIC COMPARATOR DEVICE
Robert A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 17, 1949, Serial No. 116,311
10 Claims. (Cl. 250—27)



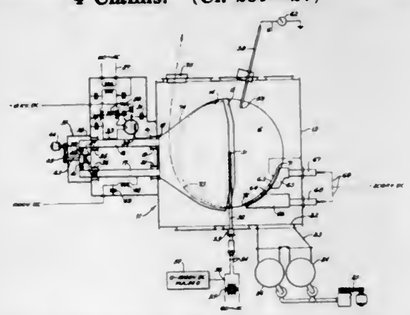
1. A high speed device for comparing numbers having a common radix and for developing an output voltage signal in response to the comparison of two identical numbers comprising a plurality of grid biased electronic tubes, an anode plate in each of said tubes, said electronic tubes being divided into associated groups for comparing respectively corresponding digits of said numbers, connections for connecting each of said tubes in each group to a source of voltage potential through an anode plate resistor common to that group, a voltage inverter means for each of said groups of tubes, each inverter means being electrically connected to the anodes of its group of tubes, resistor means common to said plurality of voltage inverter means, connections for connecting said plurality of voltage inverter means to a source of positive voltage through said common resistor means, an output voltage means connected to said resistor means, and means for varying the voltages on the grids of said groups of tubes in a pretetermined relation with corresponding digits of said numbers to obtain a predetermined voltage value in said output voltage means in response to an identity of two numbers being compared one with the other.

2,615,128
ELECTRONIC TUBE
Martin Ruderfer, Brooklyn, N. Y.
Application October 21, 1949, Serial No. 122,613
8 Claims. (Cl. 250—27)



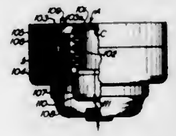
1. In an electronic device, the combination of an envelope presenting a circuitous path including bends, means to emit a stream of charged particles into the path, a plurality of means to deviate said stream to travel along and around said path more than once around; parts of said deviating means being at each bend, a branch path in said envelope; said branch path being a communicative extension of the circuitous path at a particular bend, means in said branch path to receive particles of the stream which have moved along and around the circuitous path and means associated with the part of the stream-deviation means at said particular bend, operable to deactivate the latter whereby the entire stream approaching the branch path will enter said branch path.

2,615,129
SYNCHRO-CYCLOTRON
Edwin M. McMillan, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application May 16, 1947, Serial No. 748,434
4 Claims. (Cl. 250—27)



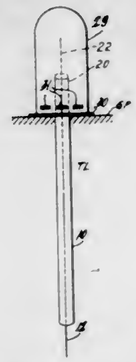
4. In apparatus for accelerating charged particles, the combination comprising an evacuated tank, means for injecting charged particles centrally within said tank, means for establishing a magnetic field of substantially constant value through said tank to force said particles to follow a curved path, a first electrode disposed within said tank and enclosing substantially half of the path of said particles, a second electrode surrounding said first electrode and having a diametral slot positioned normal to the path of said particles, a rigid conductor connected at one end to said first electrode and extended at the other end externally of said tank, a plurality of spaced-apart parallel plates mounted on the extended end of said conductor, a rotor having a plurality of parallel plates disposed so that such plates interleave with the first-mentioned plates, driving means attached to said rotor to provide rotation thereof, the plates of said rotor being coupled to said second electrode, and an oscillator tube having its anode and cathode circuits coupled to said conductor at spaced-apart positions.

2,615,130
ELECTRON TUBE WITH MOVABLE ELECTRODE
Georges Dion, Paris, France
Application November 20, 1947, Serial No. 787,156
In France November 28, 1946
3 Claims. (Cl. 250—27)



2. An electronic tube comprising two electrodes at least one of which is movable relatively to the other, mechanical means located outside the tube and connected to the movable electrode to impart mechanical motion thereto, electromagnetic means acting on the electrode in opposition to the action of said mechanical means, said electromagnetic means being fixed to the movable electrode and comprising a coil traversed by the current flowing through the tube and located in a magnetic field.

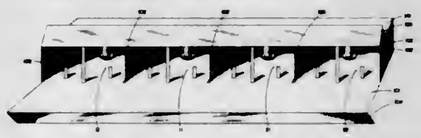
2,615,131
ANTENNA AND MATCHING CIRCUIT
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 12, 1946, Serial No. 696,556
13 Claims. (Cl. 250—33)



5. An antenna system for operation in conjunction with a conductive ground sheet, including an elongated conductive dome having a flange at the base thereof and a plurality of circumferentially extending slots therein near the base, a length of coaxial transmission line having sleeve and inner conductors extending into said dome, said sleeve conductor being electrically connected to said flange, said inner conductor extending into said dome to a greater distance than said sleeve conductor and being free of any direct current connection to said conductive dome.

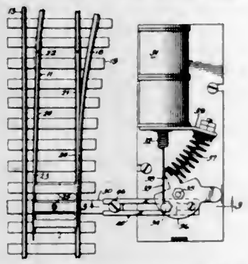
ERRATUM
For Class 250—33.57 see:
Patent No. 2,615,005

2,615,132
DIRECTIVE BROAD BAND SLOT ANTENNA SYSTEM
Victor H. Rumsey, Montreal, Quebec, Canada, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England
Application June 5, 1946, Serial No. 674,437
4 Claims. (Cl. 250—33.63)



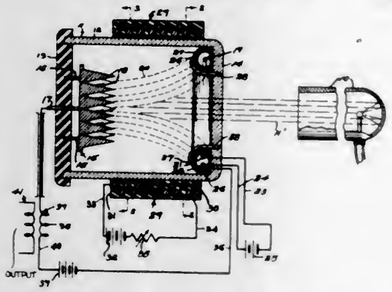
1. A slot radiator comprising a conducting cavity substantially in the form of a rectangular box having a top, a base, and one open side forming the slot, a strut of conducting material bi-

2,615,125
SWITCH MECHANISM FOR MODEL RAILROADS
Howard B. Peabody, Lake Forest, Ill., assignor to The Pioneer Company, Chicago, Ill., a partnership
Application December 21, 1951, Serial No. 262,853
3 Claims. (Cl. 246—236)



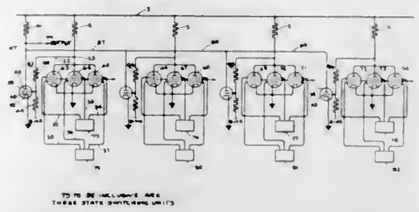
1. In a switching mechanism for model railroads having an actuating member of constant stroke between operated and return positions of adjustment and a cross arm member adapted to be actuated thereby for movement of variable magnitude to shift the switch tracks into position of use comprising a crank plate pivotally mounted and connected directly to said actuating means for movement between operated and return positions of adjustment, a pin depending from said plate offset from its pivot, and a link assembly comprising a pair of elongate strips of substantially rigid material having slots extending substantially completely therethrough, means adjustably securing the strips in overlapping relation to provide a slotted portion of adjustable length through which the pin extends to impart reciprocable movement to the link assembly varying in magnitude depending upon the length of the slot, and means for securing the link assembly to the cross arm for transmitting movement from said pin to the switch tracks.

2,615,126
NARROW BEAM RECEIVING ANTENNA
Paul A. Kennebeck, Grand Prairie, Tex.
Application December 3, 1948, Serial No. 63,225
10 Claims. (Cl. 250—1)



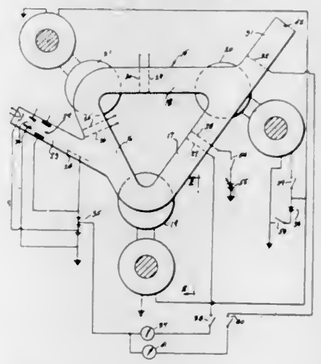
4. In a receiving antenna: a housing; a plate mounted in said housing, said plate having a plurality of protrusions extending outwardly on one side thereof, a cathode secured to said housing, said cathode being disposed spaced apart from that side of said plate on which said protrusions are disposed, said cathode having at least one aperture therethrough for permitting signals to pass therethrough in operation to reach said plate, said cathode being of ring shape, and a focusing coil extended around said housing and positioned between planes extended through the plate and cathode.

2,615,127
ELECTRONIC COMPARATOR DEVICE
Robert A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 17, 1949, Serial No. 116,311
10 Claims. (Cl. 250—27)



1. A high speed device for comparing numbers having a common radix and for developing an output voltage signal in response to the comparison of two identical numbers comprising a plurality of grid biased electronic tubes, an anode plate in each of said tubes, said electronic tubes being divided into associated groups for comparing respectively corresponding digits of said numbers, connections for connecting each of said tubes in each group to a source of voltage potential through an anode plate resistor common to that group, a voltage inverter means for each of said groups of tubes, each inverter means being electrically connected to the anodes of its group of tubes, resistor means common to said plurality of voltage inverter means, connections for connecting said plurality of voltage inverter means to a source of positive voltage through said common resistor means, an output voltage means connected to said resistor means, and means for varying the voltages on the grids of said groups of tubes in a pretetermined relation with corresponding digits of said numbers to obtain a predetermined voltage value in said output voltage means in response to an identity of two numbers being compared one with the other.

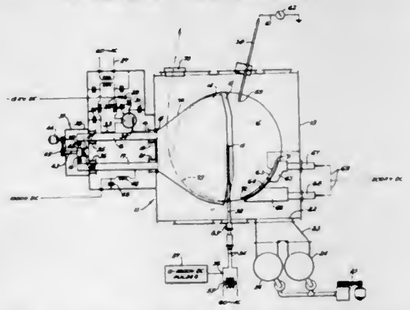
2,615,128
ELECTRONIC TUBE
Martin Ruderfer, Brooklyn, N. Y.
Application October 21, 1949, Serial No. 122,613
8 Claims. (Cl. 250—27)



1. In an electronic device, the combination of an envelope presenting a circuitous path including bends, means to emit a stream of charged particles into the path, a plurality of means to deviate said stream to travel along and around said path more than once around; parts of said deviating means being at each bend, a branch

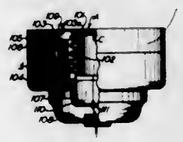
path in said envelope; said branch path being a communicative extension of the circuitous path at a particular bend, means in said branch path to receive particles of the stream which have moved along and around the circuitous path and means associated with the part of the stream-deviation means at said particular bend, operable to deactivate the latter whereby the entire stream approaching the branch path will enter said branch path.

2,615,129
SYNCHRO-CYCLOTRON
Edwin M. McMillan, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application May 16, 1947, Serial No. 748,434
4 Claims. (Cl. 250—27)



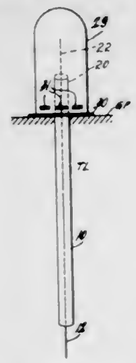
4. In apparatus for accelerating charged particles, the combination comprising an evacuated tank, means for injecting charged particles centrally within said tank, means for establishing a magnetic field of substantially constant value through said tank to force said particles to follow a curved path, a first electrode disposed within said tank and enclosing substantially half of the path of said particles, a second electrode surrounding said first electrode and having a diametral slot positioned normal to the path of said particles, a rigid conductor connected at one end to said first electrode and extended at the other end externally of said tank, a plurality of spaced-apart parallel plates mounted on the extended end of said conductor, a rotor having a plurality of parallel plates disposed so that such plates interleave with the first-mentioned plates, driving means attached to said rotor to provide rotation thereof, the plates of said rotor being coupled to said second electrode, and an oscillator tube having its anode and cathode circuits coupled to said conductor at spaced-apart positions.

2,615,130
ELECTRON TUBE WITH MOVABLE ELECTRODE
Georges Dion, Paris, France
Application November 20, 1947, Serial No. 787,156
In France November 28, 1946
3 Claims. (Cl. 250—27)



2. An electronic tube comprising two electrodes at least one of which is movable relatively to the other, mechanical means located outside the tube and connected to the movable electrode to impart mechanical motion thereto, electromagnetic means acting on the electrode in opposition to the action of said mechanical means, said electromagnetic means being fixed to the movable electrode and comprising a coil traversed by the current flowing through the tube and located in a magnetic field.

2,615,131
ANTENNA AND MATCHING CIRCUIT
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 12, 1946, Serial No. 696,556
13 Claims. (Cl. 250—33)



5. An antenna system for operation in conjunction with a conductive ground sheet, including an elongated conductive dome having a flange at the base thereof and a plurality of circumferentially extending slots therein near the base, a length of coaxial transmission line having sleeve and inner conductors extending into said dome, said sleeve conductor being electrically connected to said flange, said inner conductor extending into said dome to a greater distance than said sleeve conductor and being free of any direct current connection to said conductive dome.

ERRATUM
For Class 250—33.57 see:
Patent No. 2,615,005

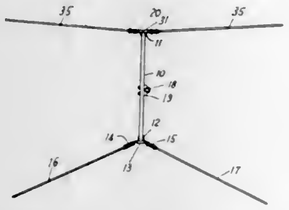
2,615,132
DIRECTIVE BROAD BAND SLOT ANTENNA SYSTEM
Victor H. Rumsey, Montreal, Quebec, Canada, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England
Application June 5, 1946, Serial No. 674,437
4 Claims. (Cl. 250—33.63)



1. A slot radiator comprising a conducting cavity substantially in the form of a rectangular box having a top, a base, and one open side forming the slot, a strut of conducting material bi-

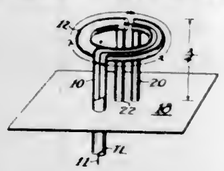
secting the open side and extending between the top and base of the cavity to insure an electric field null at the center of the slot and preserve a uniform directivity pattern over a band of frequencies, an antenna substantially perpendicular to the base disposed within the cavity remote from the open face, feeder means coupled to the antenna, and a pair of capacity loading stubs much shorter than said strut and disposed parallel thereto, said stubs being mounted on the base on either side of the strut but within the cavity enclosure to provide a shunt reactance across the slot whose reactance variation as a function of frequency is opposite in sign to that of the cavity.

2,615,133
ANTENNA
Michael D. Ercolino, Wanamassa, N. J.
Application August 18, 1949, Serial No. 110,988
3 Claims. (Cl. 250—33.65)



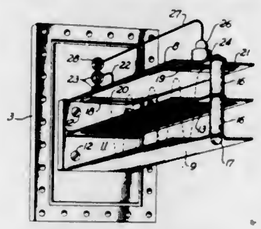
1. A high frequency antenna comprising front and rear V-shaped antenna elements, said front antenna elements consisting solely of a single pair of front V-shaped dipole structures, each dipole structure having its axis in a horizontal plane and the apices of the respective structures being substantially adjacent each other, an insulating member between said apices and to which the structures are connected, each of said front pair of V-shaped structures being inclined toward the other so that their axes form an obtuse angle, said rear V-shaped antenna elements consisting solely of a single rear pair of V-shaped dipole structures spaced from said front pair of dipole structures so as to act as reflectors therefor, the axes of the rear V structures being in the same horizontal plane and being inclined toward each other so as to form an angle, the direction of inclination of said rear V-shaped structures being rearwardly and the direction of inclination of said front pair of V-shaped structures being forwardly, the inclination of said rear V-shaped structures being less than that of said front pair of V-shaped structures.

2,615,134
ANTENNA
Philip S. Carter, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application January 9, 1946, Serial No. 639,998
3 Claims. (Cl. 250—33.67)



1. A loop antenna arrangement including a substantially plane conductive surface element, a conductor curved to lie on the circumference of a circle in a plane parallel to said conductive surface element, said circumference being twice the operating wavelength, said conductor being hollow for at least one operating wavelength, there being a gap in said conductor at one end of the hollow portion, a pair of supporting members fixed at one end to said conductive surface element and at the other end to said curved conductor on either side of the gap therein, a further supporting member in the form of an outer conductor of a coaxial transmission line passing through and affixed to said conductive surface element and connected to said curved conductor at a point on the circumference thereof opposite said gap, said supporting members having a length equal to an odd multiple including unity of a quarter of the operating wavelength, said coaxial transmission line having an inner conductor extending through the hollow portion of said curved conductor and across said gap and being connected to the end of said curved conductor opposite to the end of said hollow portion thereof, thereby to provide a substantially uniform directivity pattern in a plane substantially parallel to that of said conductive surface element.

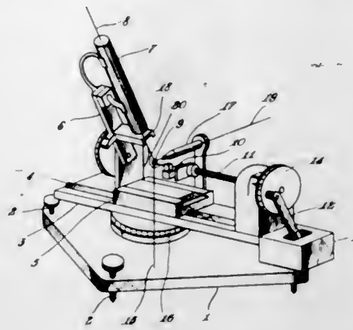
2,615,135
MASS ANALYZING APPARATUS
William E. Glenn, Jr., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application June 20, 1950, Serial No. 169,171
10 Claims. (Cl. 250—41.9)



1. Analyzing apparatus comprising a pair of parallel spaced electrodes, means establishing a constant electric field directed perpendicularly to said electrodes from a position equidistant therebetween, means for ionizing a sample to be analyzed and subjecting said ions to the effects of said electric field whereby said ions oscillate between said electrodes, means for imparting a velocity to said ions parallel to said electrodes whereby said ions travel between said electrodes, means for varying the amplitude of said electric field at a known frequency whereby only ions of a mass inversely proportional to the square of the frequency continue oscillatory travel between said electrodes without impinging thereon, and means to collect the ions having a mass proportional to said frequency and to indicate the current produced thereby.

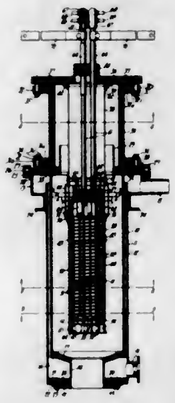
2,615,136
X-RAY SINGLE CRYSTAL GONIOMETER
Howard T. Evans, Jr., White Plains, N. Y., assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.
Application August 3, 1950, Serial No. 177,500
6 Claims. (Cl. 250—52)

1. A single crystal X-ray goniometer comprising a base, a rotatable carriage support having a given axis of rotation, a carriage movable in a given direction along said support, a rotatable mounting bracket supported by said carriage, a Geiger-Müller tube supported by said mounting bracket and rotatable about an axis perpendicular to said given axis, a rotatable spindle adapted to support a crystalline specimen, and



collimating means for directing a parallel beam of X-radiation at said specimen, said Geiger-Müller tube and said specimen being so arranged that the sensitive axis of the Geiger-Müller tube, the axis of the beam of radiation and the axis of rotation of said carriage support intersect in said specimen.

2,615,137
HIGH-POWER VACUUM TUBE
Stephen M. Duke, Harwell Didcot, Berkshire, England
Application January 5, 1946, Serial No. 639,276
13 Claims. (Cl. 313—21)



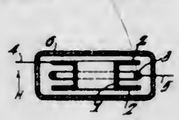
1. A high power fluid-cooled vacuum tube comprising a tubular anode, a pair of ring-shaped plate members attached one to each end of said tubular anode, a substantially tubular member surrounding said tubular anode and slightly displaced therefrom, said tubular member having means for sealing the ends thereof to said ring-shaped members to form a water-tight jacket around said tubular anode, plumbing connections provided to said water-tight jacket for circulating cooling medium through said jacket around said anode, a grid electrode positioned inside of said anode and coaxially disposed with respect to said anode, said grid electrode comprising a wire spiral supported upon a plurality of parallel spaced rod-like members, a metallic spacer member for engaging one set of ends of said rod-like members, a perforated annular member for receiving the other set of ends of said rod-like members in the perforations thereof, a metallic sleeve attached to said annular member, a hollow electrical insulator sealed to the uppermost of said ring-shaped members and surrounding said metallic sleeve, a metallic end plate attached to the other end of said hollow insulator and to the other end of said metallic sleeve, a plurality of tubular fluid-cooled conductors, insulation means for supporting said hollow fluid-cooled conductors in said end plate and inside of said metallic sleeve, a cathode assembly including a plurality of rods positioned longitudinally of said grid electrode, and means for connecting said cathode assembly to said fluid-cooled conductors whereby said cathode is suspended in position by said fluid cooled conductors.

2,615,138
BEAM TYPE ELECTRON TUBE
Albert C. Grimm, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application October 30, 1948, Serial No. 57,593
11 Claims. (Cl. 313—71)



1. An electron tube comprising a main anode, a main cathode spaced from said main anode to define a path for electrons from said main cathode to said main anode, auxiliary cathode structure disposed within said path for heating by electron bombardment, and auxiliary anode structure disposed outside of said path to collect electrons emitted by said auxiliary cathode.

2,615,139
GAS RECTIFIER TUBE EMPLOYING MAGNETIC FIELD
John H. Coleman, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 14, 1949, Serial No. 93,324
18 Claims. (Cl. 313—103)



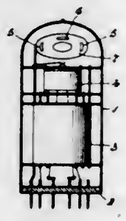
1. A gas rectifier tube comprising a ring-shaped anode, a cathode having a central portion and end portions, said central portion being of smaller diameter than and extending through the anode and having an active emitter surface which faces the inside thereof, said end portions being positioned with at least a portion of said anode between them, whereby a discharge space is formed between the anode and the structure of said cathode which is concave toward said anode, an envelope enclosing at least said discharge space, and a low pressure ionizable gaseous medium within said envelope.

2,615,140

ELECTRIC DISCHARGE TUBE CONTAINING AN ALKALINE METAL

Wilhelmus Hubertus Louis Claessen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 17, 1949, Serial No. 110,750
In the Netherlands September 28, 1948
4 Claims. (Cl. 313—179)



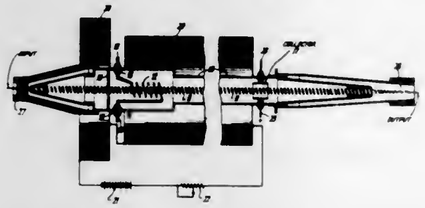
1. An electric discharge tube having a given anode current characteristic curve, comprising an envelope, a barium oxide coated cathode source of electron emission within said envelope, an anode of given work potential spaced from said cathode within said envelope, and an alkali metal in said tube in the free state in an amount only sufficient to maintain said given anode work potential substantially constant during the operating life of said tube.

2,615,141

HIGH-FREQUENCY ELECTRON DISCHARGE TUBE OF THE TRAVELING WAVE TYPE

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application November 20, 1947, Serial No. 787,232
21 Claims. (Cl. 315—3)



1. An electron discharge device comprising an evacuated envelope containing therein a coiled line along the longitudinal axis thereof, said coiled line having an end portion which tapers both in diameter and pitch, said end portion extending axially outside said envelope, means including a cathode within said envelope and surrounding said coiled line for projecting a hollow stream of electrons along the length of and around said coiled line, and means adjacent to said envelope for producing a magnetic field having flux lines running parallel to said axis.

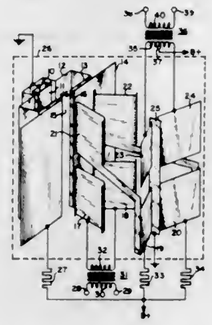
2,615,142

DEFLECTION CONTROL ELECTRON DISCHARGE DEVICE

Robert Adler, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application January 19, 1950, Serial No. 139,403
6 Claims. (Cl. 315—13)

1. An electron-discharge device comprising: an electron gun including a cathode and an accelerating electrode for projecting a plurality of formed electron beams; a first control system comprising electrodes positioned along the path of one of said beams and including an intensity-



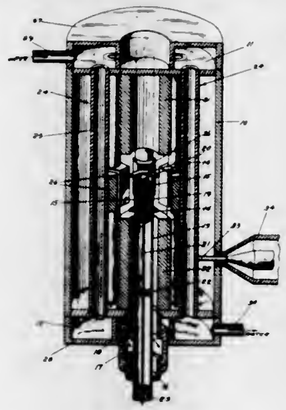
control grid followed by an anode; and a second control system comprising electrodes positioned along the path of another of said beams and including a deflection-control electrode electrically connected to said anode.

2,615,143

MAGNETRON ELECTRON DISCHARGE DEVICE

William C. Brown, Lincoln, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application July 17, 1946, Serial No. 684,110
11 Claims. (Cl. 315—39)



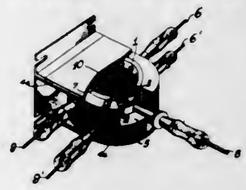
1. An electron-discharge device comprising: a cylindrical envelope; a cathode axially supported within said envelope; and a plurality of anode members extending interiorly from an end wall of said envelope: said anode members being disposed longitudinally of said envelope, circumferentially about said cathode; each of said anode members including a fluid-receiving element communicating, hydraulically in parallel with the fluid-receiving elements of the other anode members, with the exterior of said envelope, and an electron-receiving element carried by said fluid-receiving element in spaced relationship to said cathode; each pair of adjacent anode members, together with that portion of said end wall of said envelope lying therebetween, constituting a transmission line whose electrical length is such that it is resonant at the frequency of the output of said device.

2,615,144

MAGNETRON

Ernest G. Linder, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 14, 1946, Serial No. 716,207
13 Claims. (Cl. 315—40)



5. An electron discharge device of the magnetron type comprising an anode block electrode having a plurality of cavity resonators, a cathode electrode axial to said block, an evacuated housing for said electrodes, and means for producing a magnetic field for said electrodes comprising an electromagnet coil having two connected sections sealed in said housing and supported therein, one of said sections being on one side of said anode electrode and the other of said sections being on the other side of said anode electrode, said sections being adapted to produce a magnetic field in the direction parallel to said cathode electrode.

2,615,145

LIGHTNING ARRESTER ARC GAP

Gösta Rydbeck, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation

Application December 28, 1950, Serial No. 203,095
5 Claims. (Cl. 315—52)



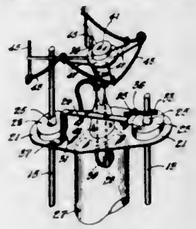
1. In a lightning arrester, a spark gap unit comprising a pile of disc shaped electrodes, means maintaining said electrodes in spaced relation to each other with adjacent parts of said electrodes forming spark gap surfaces, an insulating member extending longitudinally of said pile, and means projecting from each electrode and contacting said insulating member in a plane having a potential different from the potential of the electrode.

2,615,146

THERMOSTATIC SWITCH

Michel E. Macksoud, Newburyport, Mass., assignor to Cooper-Hewitt Electric Company, Hoboken, N. J.

Application February 11, 1948, Serial No. 7,601
1 Claim. (Cl. 315—56)



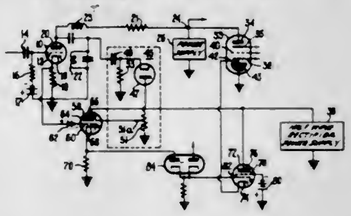
In a lamp including an electrically operated radiating device, the combination of a metal platform supporting said device and electrically connected thereto, a terminal post supported adjacent and insulated from said platform, a bi-metal strip bent to form a base flange secured directly to said platform and thereby electrically connected to said radiating device, said bi-metal strip also having an integral long arm disposed in spaced relation to said platform and normally in contact with said post, and a depending flange at the end of said arm for limiting heat-responsive movement of said arm toward said platform.

2,615,147

ELECTRON TUBE PROTECTIVE SYSTEM

Merle Vincent Hoover, Mountville, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application April 10, 1951, Serial No. 220,196
17 Claims. (Cl. 315—91)



1. A fault-detecting circuit for an electron tube connected in a network to amplify alternating voltages, said circuit comprising a first voltage generating means coupled to said network for generating a first pulsating voltage in response to pulsating current flow through said tube, a second voltage generating means coupled to said tube to generate a second pulsating voltage proportional in amplitude to the alternating output voltage of said tube, a pulse generator circuit for generating a fault-indicating voltage pulse only in response to a combination of pulses of predetermined amplitude from said first and second generating means, and pulse-transfer circuits connecting each said generator to said pulse generator circuit.

2,615,148

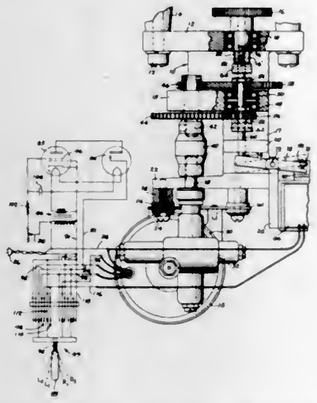
ELECTRICAL CONTROL MEANS FOR DRIVING MECHANISMS

David I. Critoph, Lancaster, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application February 18, 1950, Serial No. 145,037
6 Claims. (Cl. 318—12)

1. In a projection device having a film gate and film winding means for moving strip film across said gate, the combination of a series type electric motor, a power transmission mechanism having a rotatable shaft operatively connected to said motor and a rotatable driving element operatively connected to said film winding means for actuating same, said mechanism comprising shiftable means for changing the speed ratio of said driving element relative to said shaft, an electrical system for connecting said motor and said shiftable means to a source of alternating current and for controlling the operation thereof, and comprising an electric circuit including a switch, said electric motor and a thermionic power transmitting tube, said tube being arranged so that its anode will deliver direct current to said motor when said switch is moved from an inoperative position to a first operative

position to close said circuit, phase-shifting means for controlling the amount of direct current passing through said tube during the operation thereof, electrical means for actuating said shiftable means for effecting an increase in speed ratio between said driving element and said shaft, and a second electric circuit for connecting said elec-



trical means to said source of alternating current and including said switch, said switch being movable to a second operative position for closing said second circuit and energizing said electrical means to first cause said increase in speed ratio and thereafter connect said motor directly to said alternating current source for high speed operation of said motor.

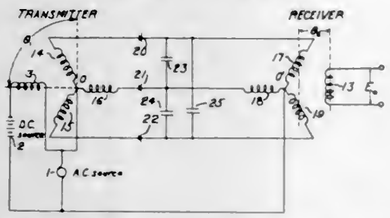
2,615,149

DERIVATIVE CONTROL OF SERVO SYSTEMS

Hershel Toomim, Douglaston, N. Y.

Original application March 6, 1945, Serial No. 581,296. Divided and this application February 10, 1950, Serial No. 144,561

6 Claims. (Cl. 318—24)



1. A servo system comprising a transmitter selsyn, a recciver selsyn, a source of alternating current connected across the transmitter rotor and across the neutral points of the transmitter and receiver selsyns, and a rectifier between each winding of the transmitter selsyn and its corresponding winding on the receiver selsyn.

2,615,150

POSITIONAL CORRESPONDENCE CONTROL SYSTEM

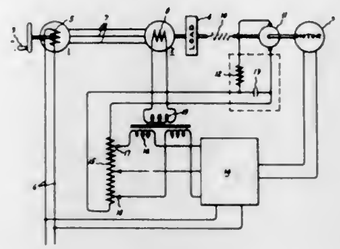
Joseph H. Liversidge, Sheffield, England, assignor to General Electric Company, a corporation of New York

Application October 12, 1950, Serial No. 189,751

In Great Britain February 7, 1949

10 Claims. (Cl. 318—30)

1. In a positional correspondence control system having, a load member, a motor, and driving means between said motor and said member, the combination therewith comprising, means responsive to the velocity of said motor, integrating means connected to the output of said velocity responsive means, means responsive to the displace-



ment of said load member, a controller, and means connected to said motor for combining the outputs of said integrating means, said displacement means and said controller whereby to govern the operation of the motor.

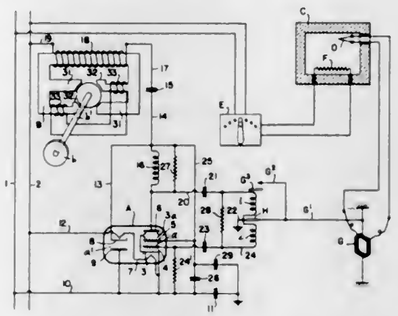
2,615,151

OSCILLATOR CONTROLLED MEASURING AND CONTROLLING APPARATUS

William H. Wannamaker, Jr., Flourtown, Pa., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Original application June 22, 1944, Serial No. 541,576, now Patent No. 2,514,918, dated July 11, 1950. Divided and this application May 14, 1949, Serial No. 93,213

2 Claims. (Cl. 318—223)



1. A motor drive mechanism comprising in combination, an alternating current motor having main poles and shading poles, a short circuited winding energizing said shading poles, a circuit network having a pair of terminals adapted to be connected across a source of alternating current, and including a winding energizing said main poles, a condenser, and two electronic valves connected between said terminals in parallel with one another and in series with said winding and condenser, one of said valves being a diode and the second valve having a control grid and having its cathode connected to the anode of said diode so that current may flow through each valve during half cycles alternating with those during which current flows through the other valve, and means responsive to a control condition for impressing a control voltage on said control grid varying in accordance with variations in the value of said condition.

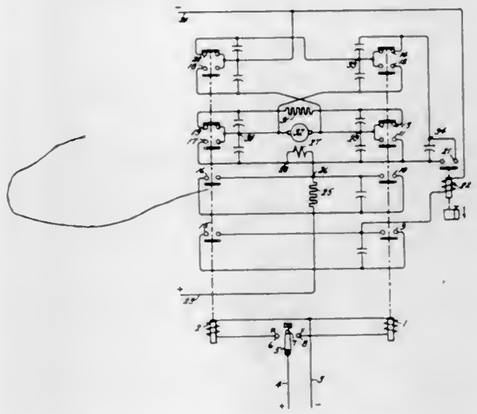
2,615,152

DYNAMIC BRAKING SYSTEM

Lee S. Apple, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York

Application June 6, 1950, Serial No. 166,475

2 Claims. (Cl. 318—246)



1. A control system for an electric motor having a series field winding, comprising connections to a source of electrical potential, control means having an energized position in which said motor is operating and a de-energized position in which said motor is not operating, first switch means operated responsively to the energization of said control means for serially connecting the armature of said motor and said series field winding to said source whereby the rotor of said motor rotates, a dynamic braking resistor, means including second switch means which are closed upon the de-energization of said control means for short-circuiting the armature of said motor through said dynamic braking resistor for the dynamic braking thereof, a second resistor, and means for connecting said second resistor and said series field winding in a series circuit for energization from said source for a predetermined interval beginning when said contol means becomes de-energized in order to maintain the energization of said field winding at a relatively high value for this predetermined interval, said last-named means including third switch means operated responsively to the operation of said control means for shunting said second resistor when said control means is energized and unshunting it when said control means is de-energized, fourth switch means operated by said control means and arranged to be open when said control means is energized and closed when it is de-energized, time delay means having contacts which are closed when the time delay means is energized and which opens these contacts when the time delay means becomes de-energized after the expiration of an interval approximately equal to said predetermined interval, said fourth switch means and said contacts being connected in said series circuit with said field winding and said second resistor, and fifth switch means operated by said control means for energizing said time delay means when said control means is energized and de-energizing said time delay means when said control means becomes de-energized, whereby said time delay means drops out after a time approximately equal to said predetermined interval and de-energizes said series circuit including said field winding by opening said contacts.

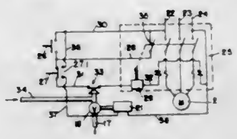
2,615,153

MOTOR BRAKE CONTROL

Willem Groen, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill., a corporation of Illinois

Application May 12, 1951, Serial No. 226,005

1 Claim. (Cl. 318—372)



The combination of a motor shaft, brake mechanism normally inactive for resisting rotation of said shaft, a pneumatic cylinder and piston positioned to apply braking pressure to said brake mechanism, means for supplying elastic fluid under pressure to said cylinder, a normally closed valve controlling the admission of said fluid to said cylinder, a bleeder port leading from said cylinder for timing the escape of such fluid pressure from said cylinder, and electrical control means comprising a main motor circuit, a normally open main switch controlling said motor circuit, a holding circuit, magnetic means in said holding circuit for closing said main switch, a normally open switch in said holding circuit arranged to be held closed by the pressure of said elastic fluid supply, a third circuit having manetic means for opening said fluid supply valve, and a start-stop station having a normally open start switch for activating said holding circuit and said station having a normally closed stop switch adapted to open said holding circuit and simultaneously close said third circuit.

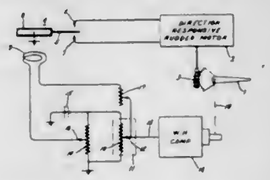
2,615,154

AUTOMATIC STEERING SYSTEM

Elmer J. Wade, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 2, 1950, Serial No. 182,991

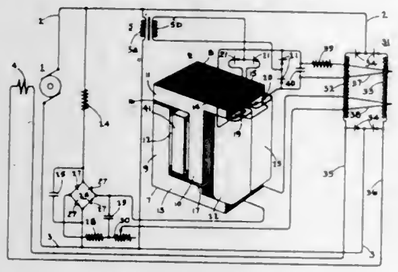
2 Claims. (Cl. 318—489)



1. In an automatic steering system for a dirigible craft including a rudder, a reversible rudder driving motor, a magnetic compass adapted when mounted upon a craft to have a normal null position with respect to the craft, means responsive to deviation of said compass from said null position for energizing said motor for movement in a direction determined by the direction of said deviation, electro-magnetic flux generating means disposed to influence said compass, means including a potentiometer actuated by said motor for energizing said flux generating means in an amount proportional to displacement of said motor from the predetermined normal position and in a sense to restore said compass to said null position, said predetermined normal motor position corresponding to a predetermined normal rudder position and a null potentiometer position and being variable in accordance with external forces acting upon the

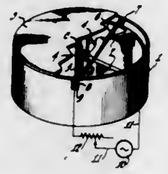
craft, and reversible coupling means interposed between said motor and said potentiometer, said coupling means having unequal forward and reverse driving ratios thereby automatically to determine said predetermined normal rudder position in accordance with said external forces while maintaining said potentometer in an average null postion.

2,615,155
VOLTAGE REGULATOR
Hugh M. Ogle, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 2, 1950, Serial No. 159,545
10 Claims. (Cl. 322—28)



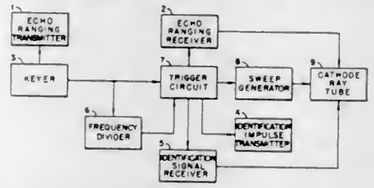
10. A voltage regulating apparatus for an alternating current generator provided with at least two output voltage terminals and an excitation field winding, comprising a magnetic regulating and amplifying device having a core member including a magnetizable portion and a permanent magnet portion for partially saturating said magnetizable portion, said magnetizable portion including at least two winding receiving portions, a pair of load windings positioned on said winding receiving portions in additive flux relation with said permanent magnet portion and connected to be energized in parallel with alternating potential proportional to the output voltage of said generator, rectifier means connected in circuit with said load windings in a manner such that unidirectional current flows alternately through the load windings during alternate half cycles of alternating potential, a control winding embracing both of said winding receiving portions, a second stage magnetic amplifier device having a pair of load windings and a pair of control windings on a saturable core and a plurality of rectifier devices in circuit with said load windings, means for energizing the load windings of said second stage magnetic amplifier device in parallel with alternating potential responsive to the output voltage of said generator, said rectifier devices permitting the flow of unidirectional current alternately through said load windings during alternate half cycles of said alternating potential, means for connecting said first control winding of said second stage magnetic amplifier device in circuit with the load windings of said regulating and amplifying device in a manner such that the unidirectional output current of these load windings flows through said first control winding, said current partially saturating the core of said magnetic amplifier device, a full wave rectifier device, means for energizing said full wave rectifier device with alternating potential responsive to the output voltage of said generator, a phase shifting network comprising a resistor connected in series with said full wave rectifier device and a capacitor connected in shunt therewith, circuit means connecting the control winding of said magnetic regulating and amplifying device and the second control winding of said second stage magnetic amplifier device in the output circuit of said full wave rectifier device, and means connecting said field winding in circuit with the load windings of said second stage magnetic amplifier device whereby the unidirectional output current of the load windings of said second stage magnetic amplifier device flows through said field winding.

2,615,156
FREQUENCY MODULATION OF ELECTRON DISCHARGE DEVICES
Lloyd P. Smith, Ithaca, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 14, 1948, Serial No. 8,332
8 Claims. (Cl. 332—5)



1. A cavity resonator including a plurality of spaced conductive elements, and means for varying the resonant frequency of said resonator, by varying the capacitance between said elements, comprising an elongated conductive member movably mounted adjacent said elements and means for vibrating said member relatively to said elements, said vibrating means including means for establishing a constant magnetic field substantially normal to said conductive member and means connecting said conductive member in series with a source of modulating current.

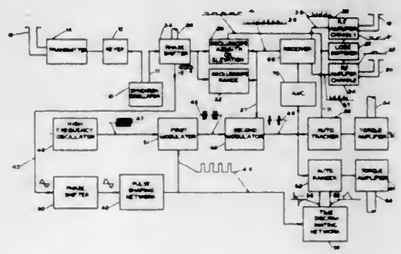
2,615,157
RANGING AND IDENTIFICATION SYSTEM
Walter N. Dean, Larchmont, N. Y., assignor to the United States of America as represented by the Secretary of the Navy
Application May 21, 1946, Serial No. 671,178
2 Claims. (Cl. 343—6)



1. In combination, a radio echo ranging system comprising a pulse transmitter, a recurrent pulse keying source connected to said transmitter to produce the emission of recurrent high powered pulses of electromagnetic energy, an echo receiver for receiving said pulses after reflection from remote objects, an identification system comprising a second pulse transmitter operative to emit identification signals at a sub-harmonic rate with respect to the pulse rate of said radio echo transmitter, a frequency divider fed from said keying source to produce synchronizing signals at said sub-harmonic rate, a dual stability switching means fed from the output of said frequency divider and connected to said radio echo receiver to render said receiver operative in response to one state of stability of said switching

means to receive the reflections of said radio echo transmitter pulses, said switching means being further connected to said pulse keying source and responsive to the next succedent pulse from said pulse keying source following the output from said frequency divider to develop the second state of stability of said switching means, and means coupled to said identification transmitter and said radio echo receiver responsive to the second state of stability of said switching means to synchronously disable said radio echo receiver and key said identification transmitter.

2,615,158
RADIO OBJECT LOCATING SYSTEM
Edwin K. Stodola, Neptune, N. J., assignor to the United States of America as represented by the Secretary of War
Application May 1, 1943, Serial No. 485,372
5 Claims. (Cl. 343—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



5. In a radio pulse echo object locating system, a receiver, means for generating two sinusoidal voltages in synchronism with the reception of echoes from a selected range, means for modulating the receiver output due to echoes from objects near said selected range with each of said sinusoidal voltages, and means responsive to the difference of the modulated echoes to modify the phase of said sinusoidal voltages to correspond to changes in the range of the selected object.

2,615,159
WAXY TRIGLYCERIDES
Frank L. Jackson, Cincinnati, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application May 28, 1949, Serial No. 96,150
19 Claims. (Cl. 260—410.8)

1. A triglyceride of the formula

$$\begin{array}{l} R'CO\cdot OCH_2 \\ | \\ RCO\cdot OCH \\ | \\ RCO\cdot OCH_2 \end{array}$$

wherein R'CO· is the acyl radical of a fatty acid of 12 to 22 carbon atoms and each RCO· is selected from the group consisting of acetyl, propionyl and butyryl radicals, said triglyceride being in a waxy translucent alpha crystalline form as determinable by melting point and X-ray diffraction measurements.

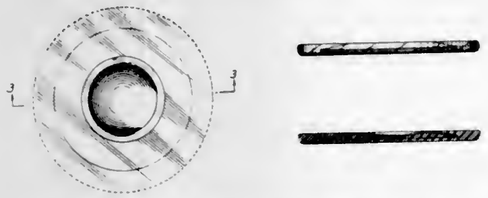
2,615,160
MIXED TRIGLYCERIDES
Fredric J. Baur, Wyoming, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application May 28, 1949, Serial No. 96,143
19 Claims. (Cl. 260—410.8)

1. A fatty composition consisting essentially of diacetyl triglycerides, the non-acetyl, acyl radicals of which are those of a fatty acid of 12 to 22 carbon atoms, each 100 parts of the said mixture containing from about 10 to about 90 parts by weight of diacetyl triglycerides selected from the group consisting of symmetrical and unsymmetrical diacetyl triglycerides and inversely from about 90 to about 10 parts by weight of triglycerides selected from the group consisting of, (*a*) diacetyl triglycerides differing from the aforementioned diacetyl triglycerides only in isomeric form, (*b*) diacetyl triglycerides differing only in chain length of the high molecular fatty acid acyl radical from the said aforementioned diacetyl triglycerides, and (*c*) mixtures of (*a*) and (*b*), the total mixture of triglycerides being substantially free of triacetin and of triglycerides solely of high molecular fatty acids and being in waxy translucent form of great stability.

DESIGNS

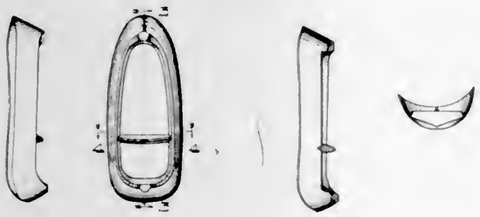
OCTOBER 21, 1952

167,963
CASTER CUP OR SIMILAR ARTICLE
Betty Auer, Chicago, Ill.
Application September 29, 1950, Serial No. 12,398
Term of patent 14 years
(Cl. D10—6)



The ornamental design for a caster cup or similar article, as shown and described.

167,964
LENS HOUSING FOR AUTOMOBILES
Harry T. Bannister, Huntington Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 11, 1952, Serial No. 20,130
Term of patent 7 years
(Cl. D48—32)



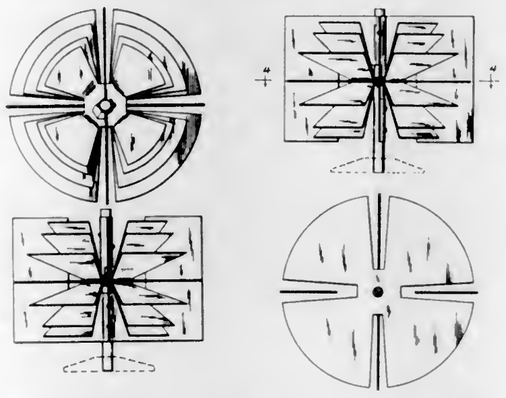
The ornamental design for a lens housing for automobiles, substantially as shown.

167,965
CLOTHES HAMPER
Arthur H. Baum, New York, N. Y.
Application July 17, 1952, Serial No. 20,659
Term of patent 3½ years
(Cl. D58—4)



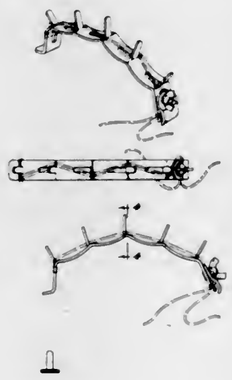
The ornamental design for a clothes hamper, substantially as shown.

167,966
INDOOR TELEVISION ANTENNA
Harold J. Berney, Washington, D. C., assignor to Aberney Corporation, Bethesda, Md., a corporation of Maryland
Application April 3, 1952, Serial No. 19,182
Term of patent 14 years
(Cl. D26—14)



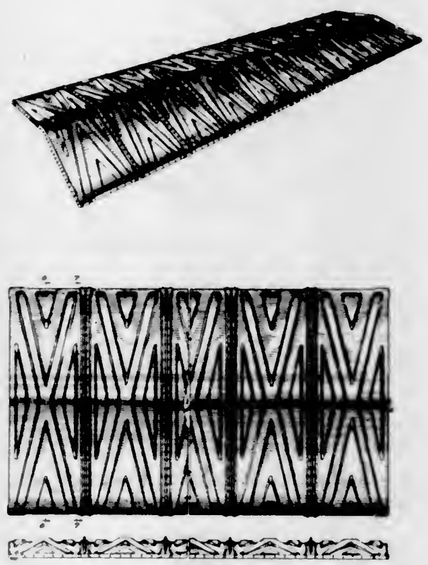
The ornamental design for an indoor television antenna, as shown and described.

167,967
FISHING ROD CARRIER FOR AUTOMOBILES
Frank R. Burnett, Downey, Irvin E. Schmidke, South Gate, and George Pelletier, Wilmar, Calif.; said Pelletier assignor to said Burnett and Schmidke, jointly
Application August 3, 1951, Serial No. 16,138
Term of patent 14 years
(Cl. D14—6)



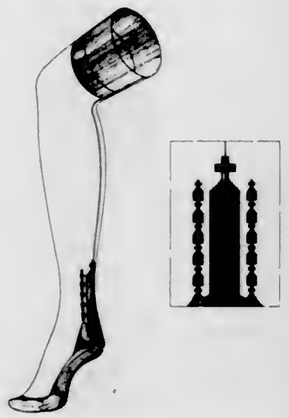
The ornamental design for a fishing rod carrier for automobiles, substantially as shown and described.

167,968
VEHICLE ROOF
James E. Candlin, Jr., Flossmoor, Ill., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application June 7, 1951, Serial No. 15,457
Term of patent 14 years
(Cl. D66—1)



The ornamental design for a vehicle roof, substantially as shown.

167,969
LADY'S STOCKING
Albert L. Chilson, Doylestown, Pa.
Application June 2, 1952, Serial No. 20,000
Term of patent 14 years
(Cl. D47—7)



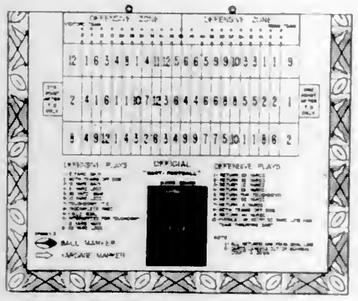
The ornamental design for a lady's stocking, as shown.

167,970
SPOON OR OTHER ARTICLE OF FLATWARE
Edward J. Conroy, Meriden, Conn.
Application February 13, 1952, Serial No. 18,511
Term of patent 14 years
(Cl. D54—12)



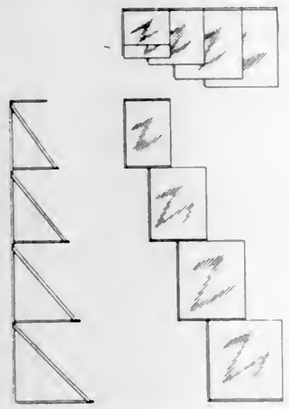
The ornamental design for a spoon or other article of flatware, substantially as shown and described.

167,971
GAME BOARD
Wilbert W. Costenbader, Wyomissing, Pa.
Application May 26, 1952, Serial No. 19,903
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a game board, substantially as shown and described.

167,972
CANISTER WALL SHELF UNIT
Cullen L. Curry, Mobile, Ala.
Application May 10, 1952, Serial No. 19,681
Term of patent 14 years
(Cl. D33—3)



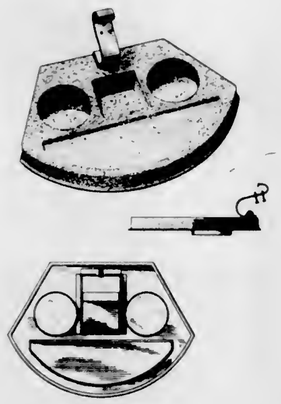
The ornamental design for a canister wall shelf unit, as shown.

167,973
LENS HOUSING FOR AUTOMOBILE LAMPS
Virgil M. Exner, Birmingham, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 11, 1952, Serial No. 20,128
Term of patent 7 years
(Cl. D48—32)



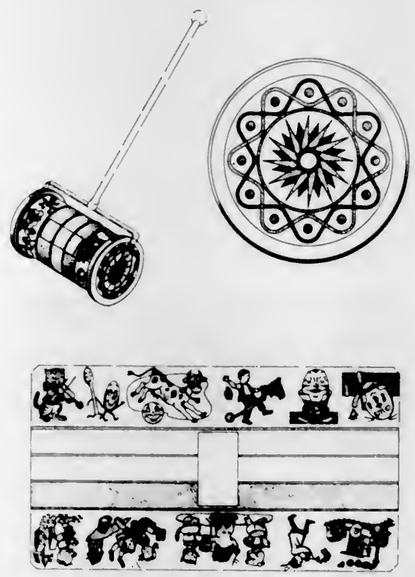
The ornamental design for a lens housing for automobile lamps, substantially as shown.

167,974
SERVING TRAY FOR AUTOMOBILES
John E. Ferguson, Excelsior Springs, Mo., assignor to Avsco, Incorporated, Kansas City, Mo., a corporation of Missouri
Application July 16, 1952, Serial No. 20,646
Term of patent 3½ years
(Cl. D44—10)



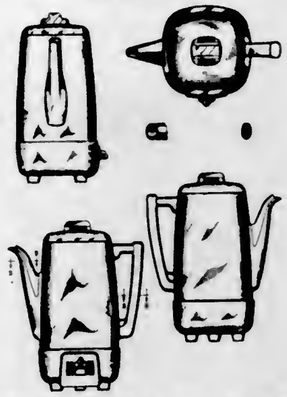
The ornamental design for a serving tray for automobiles, as shown.

167,975
TRUNDLE TOY
Herman G. Fisher, Leslie W. Sly, and Walter P. Doe, East Aurora, N. Y., assignors to Fisher-Price Toys, Inc., East Aurora, N. Y.
Application November 20, 1951, Serial No. 17,476
Term of patent 14 years
(Cl. D34—15)



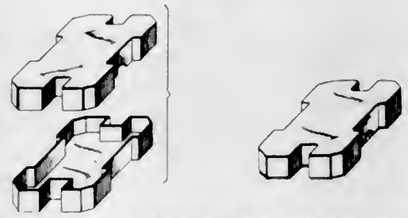
The ornamental design for a trundle toy, as shown and described.

167,976
COFFEE POT
Gordon W. Florian, Bridgeport, Conn., assignor to Camfield Manufacturing Company, Grand Haven, Mich., a corporation of Michigan
Application January 17, 1951, Serial No. 13,843
Term of patent 7 years
(Cl. D44—26)



The ornamental design for a coffee pot, as shown.

167,977
BOX
Ernest J. Francis, Harrisonburg, Va.
Application January 23, 1952, Serial No. 18,183
Term of patent 14 years
(Cl. D58—12)



The ornamental design for a box, as shown.

167,978
SHAPED TEXTILE PIECE
Harry M. Goldman, New Rochelle, N. Y.
Application May 24, 1952, Serial No. 19,879
Term of patent 3½ years
(Cl. D3—9)



The ornamental design for a shaped textile piece, substantially as shown.

167,979
CLOTHESPIN
James M. Harlan, Lawrenceville, Ill.
Application June 2, 1952, Serial No. 19,994
Term of patent 14 years
(Cl. D17—6)



The ornamental design for a clothespin, as shown.

167,980
LADY'S BOOT
Betty A. Hausfeld, Loveland, and Charles G. Tooker, Cincinnati, Ohio, assignors to So-Lo Works Incorporated, Loveland, Ohio, a corporation of Ohio
Application June 3, 1952, Serial No. 20,016
Term of patent 7 years
(Cl. D7—4)



The ornamental design for a lady's boot, substantially as shown and described.

167,981
ATOMIZER
Serge Heftler-Louiche, Paris, France
Application April 30, 1952, Serial No. 19,534
Term of patent 7 years
(Cl. D83—1)



The ornamental design for an atomizer, substantially as shown.

167,982
CARPET
Robert Heller, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 20,351
Term of patent 14 years
(Cl. D92—4)



The ornamental design for a carpet, as shown and described.

167,983
CARPET
Robert Heller, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 20,352
Term of patent 14 years
(Cl. D92—4)



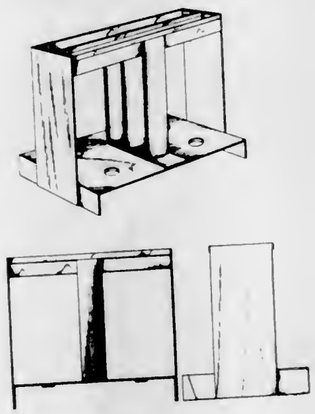
The ornamental design for a carpet, as shown and described.

167,984
CARPET
Robert Heller, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 20,353
Term of patent 14 years
(Cl. D92—4)



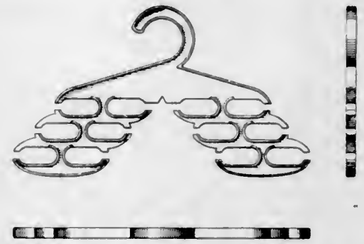
The ornamental design for a carpet, as shown and described.

167,985
RACK FOR SUPPORTING A THERAPEUTIC COMPRESS IN A LIQUID BATH
Lee Jensen, Chattanooga, Tenn.
Application May 26, 1952, Serial No. 19,900
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a rack for supporting a therapeutic compress in a liquid bath, as shown.

167,986
TIE HANGER
Alfred S. Jonaitis, New York, N. Y.
Application March 1, 1952, Serial No. 18,747
Term of patent 7 years
(Cl. D33—8)



The ornamental design for a tie hanger, as shown.

167,987
COMB OR SIMILAR ARTICLE
Lester R. Kahn, Jersey City, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application August 23, 1952, Serial No. 21,170
Term of patent 7 years
(Cl. D86—8)



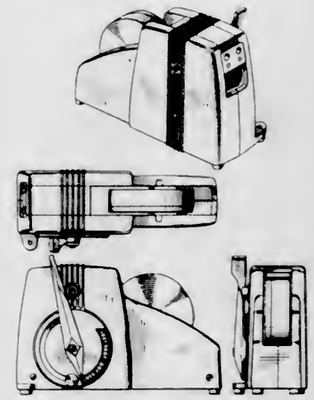
The ornamental design for a comb or similar article, substantially as shown and described.

167,988
COMB OR SIMILAR ARTICLE
Lester R. Kahn, Jersey City, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application August 23, 1952, Serial No. 21,171
Term of patent 7 years
(Cl. D86—8)



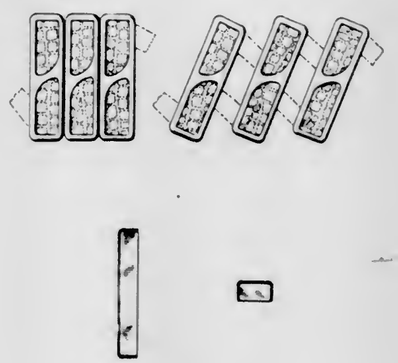
The ornamental design for a comb or similar article, substantially as shown and described.

167,989
ADHESIVE TAPE DISPENSER OR THE LIKE
Theodore Henry Krueger, Stratford, Conn., assignor to Better Packages, Inc., a corporation of New York
Application July 17, 1952, Serial No. 20,656
Term of patent 14 years
(Cl. D74—1)



The ornamental design for an adhesive tape dispenser or the like, substantially as shown.

167,990
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Walter Krust, Brooklyn, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application July 5, 1952, Serial No. 20,474
Term of patent 7 years
(Cl. D45—4)



The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

167,982
CARPET
Robert Heller, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 20,351
Term of patent 14 years
(Cl. D92—4)



The ornamental design for a carpet, as shown and described.

167,983
CARPET
Robert Heller, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 20,352
Term of patent 14 years
(Cl. D92—4)



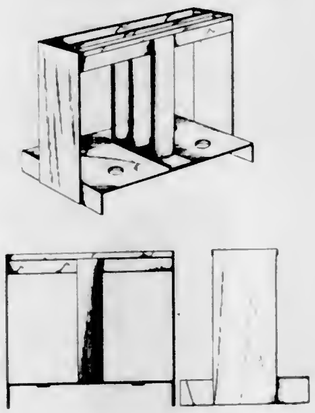
The ornamental design for a carpet, as shown and described.

167,984
CARPET
Robert Heller, New York, N. Y., assignor to C. H. Masland & Sons, Carlisle, Pa., a corporation of Pennsylvania
Application June 26, 1952, Serial No. 20,353
Term of patent 14 years
(Cl. D92—4)



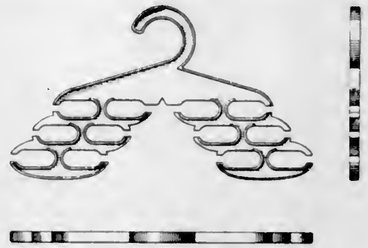
The ornamental design for a carpet, as shown and described.

167,985
RACK FOR SUPPORTING A THERAPEUTIC COMPRESS IN A LIQUID BATH
Lee Jensen, Chattanooga, Tenn.
Application May 26, 1952, Serial No. 19,900
Term of patent 14 years
(Cl. D30—9)



The ornamental design for a rack for supporting a therapeutic compress in a liquid bath, as shown.

167,986
TIE HANGER
Alfred S. Jonaitis, New York, N. Y.
Application March 1, 1952, Serial No. 18,747
Term of patent 7 years
(Cl. D33—8)



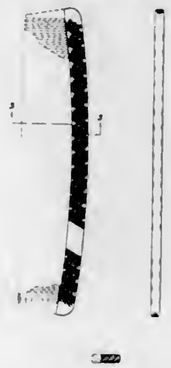
The ornamental design for a tie hanger, as shown.

167,987
COMB OR SIMILAR ARTICLE
Lester R. Kahn, Jersey City, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application August 23, 1952, Serial No. 21,170
Term of patent 7 years
(Cl. D86—8)



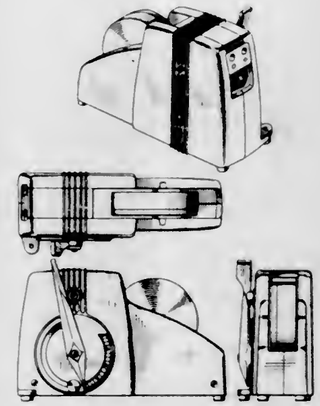
The ornamental design for a comb or similar article, substantially as shown and described.

167,988
COMB OR SIMILAR ARTICLE
Lester R. Kahn, Jersey City, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application August 23, 1952, Serial No. 21,171
Term of patent 7 years
(Cl. D86—8)



The ornamental design for a comb or similar article, substantially as shown and described.

167,989
ADHESIVE TAPE DISPENSER OR THE LIKE
Theodore Henry Krueger, Stratford, Conn., assignor to Better Packages, Inc., a corporation of New York
Application July 17, 1952, Serial No. 20,656
Term of patent 14 years
(Cl. D74—1)



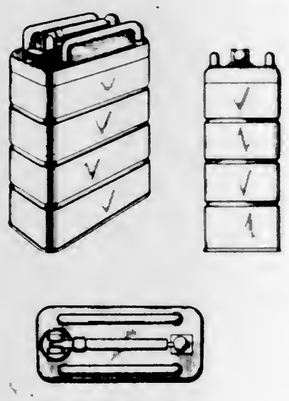
The ornamental design for an adhesive tape dispenser or the like, substantially as shown.

167,990
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Walter Krust, Brooklyn, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application July 5, 1952, Serial No. 20,474
Term of patent 7 years
(Cl. D45—4)



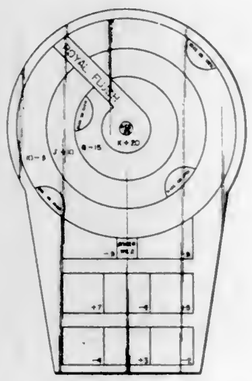
The ornamental design for an expansible link chain for a bracelet or the like, as shown and described.

167,991
DISPENSING CAN
William Mack, Pittsburgh, Pa., assignor to the United States of America as represented by the Secretary of the Army
Application June 9, 1952, Serial No. 20,100
Term of patent 3½ years
(Cl. D58—17)



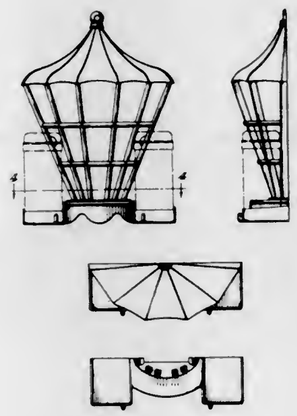
The ornamental design for a dispensing can, substantially as shown.

167,992
GAME BOARD
Harry K. Malley, El Monte, Calif.
Application March 28, 1952, Serial No. 19,086
Term of patent 14 years
(Cl. D34—5)



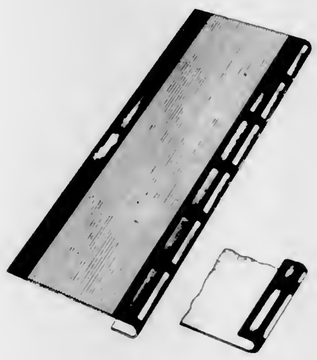
The ornamental design for a game board, as shown and described.

167,993
RACK FOR CONDIMENT HOLDERS OR SIMILAR ARTICLE
Paul D. McGee, Chicago, Ill., assignor to Superior Plastics Inc., Chicago, Ill., a corporation of Delaware
Application July 29, 1952, Serial No. 20,798
Term of patent 14 years
(Cl. D44—29)



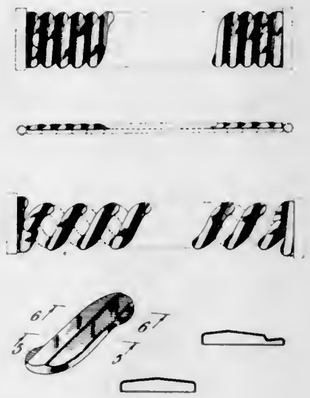
The ornamental design for a rack for condiment holders or similar article, substantially as shown and described.

167,994
STAIR TREAD MAT
Hunter B. McKay, Belmont, Mass., assignor to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Application June 12, 1952, Serial No. 20,155
Term of patent 14 years
(Cl. D9—6)



The ornamental design for a stair tread mat, substantially as shown.

167,995
EXPANSIBLE BRACELET OR THE LIKE
Samuel Meyerson, Brooklyn, N. Y.
Application August 5, 1950, Serial No. 11,626
Term of patent 14 years
(Cl. D45—4)



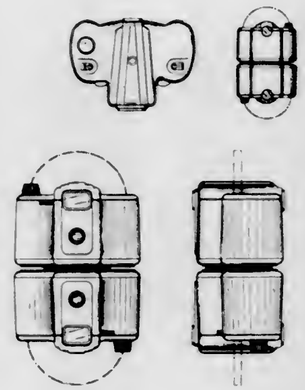
The ornamental design for an expansible bracelet or the like, as shown and described.

167,996
NARROW TEXTILE FABRIC OR THE LIKE
Siegfried L. Oppenheimer, New York, N. Y.
Application June 24, 1952, Serial No. 20,324
Term of patent 7 years
(Cl. D92—1)



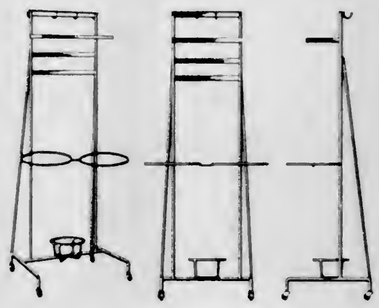
The ornamental design for a narrow textile fabric or the like, substantially as shown.

167,997
DUPLEX CAMERA
Freeman H. Owens, New York, N. Y.
Application September 15, 1951, Serial No. 16,652
Term of patent 14 years
(Cl. D61—1)



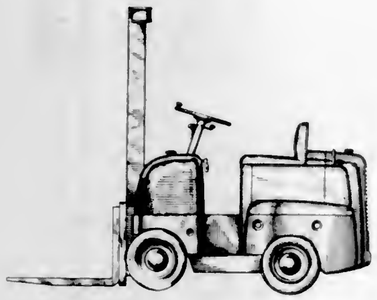
The ornamental design for a duplex camera, as shown and described.

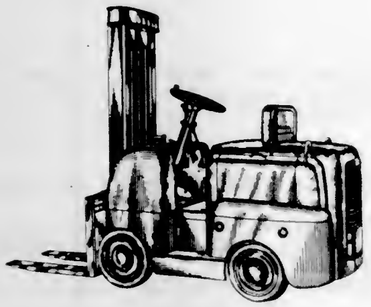
167,998
HOSPITAL UTILITY STAND OR SIMILAR ARTICLE
Marie B. Raboli, San Mateo, Calif., assignor of one-half to Mills Memorial Hospital, San Mateo, Calif.
Application May 28, 1952, Serial No. 19,922
Term of patent 14 years
(Cl. D33—20)



The ornamental design for a hospital utility stand or similar article, as shown.

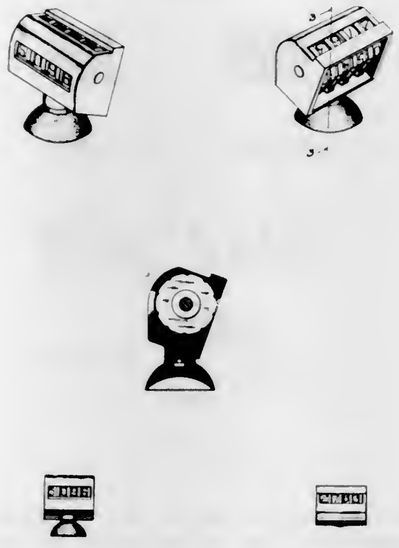
167,999
INDUSTRIAL TRUCK
John G. Rideout, deceased, late of Chagrin Falls, Ohio, by Alice C. Rideout, administratrix, Chagrin Falls, Ohio, assignor to The Buda Company, Harvey, Ill., a corporation of Illinois
Application December 12, 1951, Serial No. 17,694
Term of patent 14 years
(Cl. D14—3)





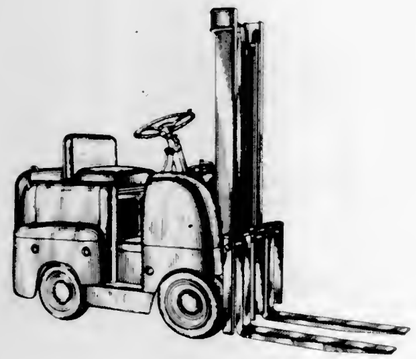
The ornamental design for an industrial truck, substantially as shown.

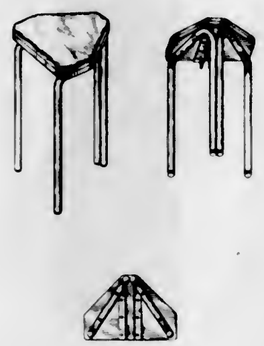
168,000
MANUALLY SET PORTABLE REGISTER
Edwin C. Rosenberg, Milwaukee, Wis.
Application January 25, 1951, Serial No. 13,946
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a manually set portable register, as shown.

168,001
STOOL
Albert Sachs, Chicago, Ill.
Original application February 20, 1952, Serial No. 18,598. Divided and this application July 30, 1952, Serial No. 20,811
Term of patent 3½ years
(Cl. D15—8)





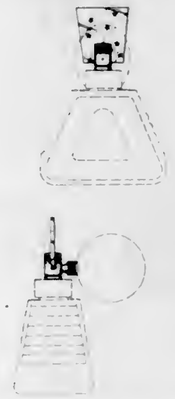
The ornamental design for a stool, substantially as shown.

168,002
PICKUP ARM FOR PHONOGRAPH
Herbert Vaughan Slade, Swindon, England, assignor to The Garrard Engineering and Manufacturing Company Limited
Application January 3, 1952, Serial No. 17,916
In Great Britain August 30, 1951
Term of patent 7 years
(Cl. D26—14)



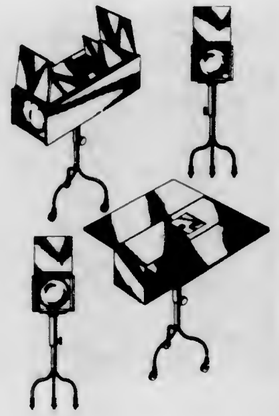
The ornamental design for a pickup arm for phonograph, as shown.

168,003
ATOMIZER
Carl W. Sundberg, Birmingham, Mich., assignor to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application June 28, 1952, Serial No. 20,390
Term of patent 14 years
(Cl. D83—1)



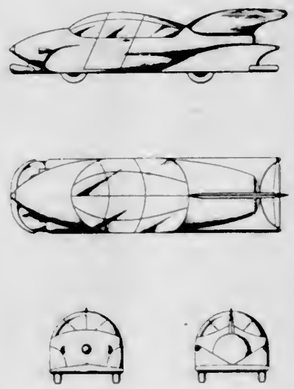
The ornamental design for an atomizer, as shown and described.

168,004
COMBINATION TABLE AND TELEVISION PICTURE PROJECTION UNIT
Max Teuber, Los Angeles, Calif., assignor of one-half to Joseph W. Boak, Los Angeles, Calif.
Application February 18, 1952, Serial No. 18,552
Term of patent 7 years
(Cl. D61—1)



The ornamental design for a combination table and television picture projection unit, substantially as shown.

168,005
AUTOMOBILE
Walter Wiggins, Jr., Beaver Heights, Md.
Application July 7, 1952, Serial No. 20,491
Term of patent 14 years
(Cl. D14—3)



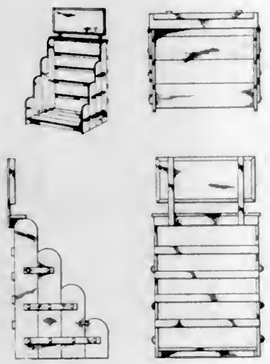
The ornamental design for an automobile, as shown.

168,006
TABLECLOTH
William Wolf, Philadelphia, Pa., assignor to Quaker Lace Company, Philadelphia, Pa.
Application June 21, 1952, Serial No. 20,302
Term of patent 7 years
(Cl. D92—26)



The ornamental design for a tablecloth, substantially as shown and described.

168,007
DISPLAY RACK
Preston K. Wood, Arcadia, and Gwen A. Maurer, Tujunga, Calif.
Application December 15, 1951, Serial No. 17,755
Term of patent 7 years
(Cl. D80—9)



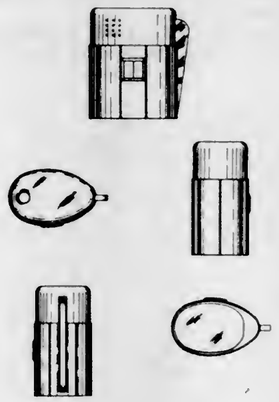
The ornamental design for a display rack, as shown.

168,008
BASEBOARD RADIATOR ENCLOSURE
Henry S. Woodruff, Newark, N. J., assignor to The Variflame Corporation, White Plains, N. Y., a corporation of New York
Application October 17, 1951, Serial No. 16,971
Term of patent 14 years
(Cl. D81—21)



The ornamental design for a baseboard radiator enclosure, substantially as shown and described.

168,009
CIGARETTE LIGHTER
Cecil B. Woofter, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Application November 13, 1951, Serial No. 17,355
Term of patent 14 years
(Cl. D48—27)



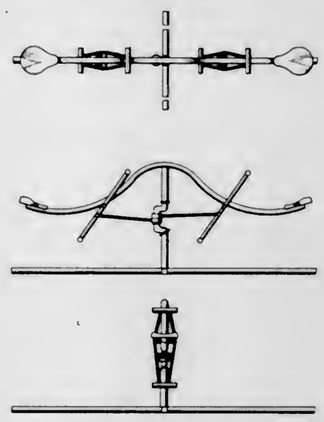
The ornamental design for a cigarette lighter, as shown.

168,010
PLATE
Alfred Wright, Stoke-on-Trent, England, assignor to Barker Brothers Limited, Stoke-on-Trent, England
Application April 12, 1951, Serial No. 14,799
Term of patent 7 years
(Cl. D44—15)

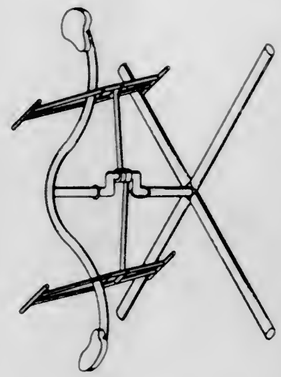


The ornamental design for a plate, as shown and described.

168,011
ROUNDABOUT
Floyd H. Wyman and Furman F. Taylor, Westminster, S. C.
Application May 10, 1951, Serial No. 15,132
Term of patent 14 years
(Cl. D34—5)

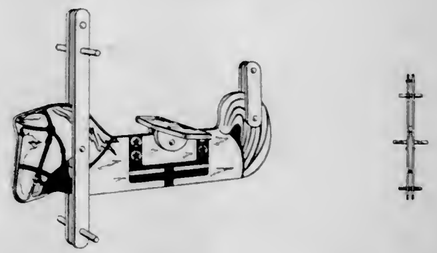


168,011—Continued



The ornamental design for a roundabout, as shown and described.

168,012
COMBINED SWING SEAT AND SUPPORTS THEREFOR
Franklyn York, Plymouth, Mich., assignor to Marmy Products Company, Birmingham, Mich., a corporation of Michigan
Application September 6, 1951, Serial No. 16,524
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a combined swing seat and supports therefor, substantially as shown and described.

Official Gazette

UNITED STATES PATENT OFFICE

Containing the Patents, Trade-Marks, & Designs issued

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Stabilizing agent—namely, brominated olive oil, used in the preparation of non-alcoholic maltless soft drinks. Serial No. 592,856, Oct. 28. Class 45.

Abbott Laboratories, North Chicago, Ill. Analgesic. Serial No. 622,190, Oct. 28. Class 18.

Ace Art Company, Reading, Mass. Paper napkins. Serial No. 626,651, Oct. 28. Class 37.

Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. Serial No. 618,384, Oct. 28. Class 23.

Addressograph-Multigraph Corporation, Cleveland, Ohio. Frames for holding printing plates. Serial No. 609,269, Oct. 28. Class 23.

Addressograph-Multigraph Corporation, Cleveland, Ohio. Master paper for duplicating machines. Serial No. 626,845, Oct. 28. Class 37.

Admiral Fabrics Co.: *See*—
York, Louis B.

Kleijn, Adrianus, trading as Chefaro Chemische Fabriek "Rotterdam," Rotterdam-West, South Holland, Netherlands. Chemical preparation. Serial No. 621,671, Oct. 28. Class 6.

Advance Machine Company, Minneapolis, Minn. Electric floor polishing machines. Serial No. 617,939, Oct. 28. Class 21.

Affiliated Gas Equipment, Inc., Cleveland, Ohio. Boilers, furnaces, air conditioners, etc. Serial No. 596,004, Oct. 28. Class 34.

Agenda Club Service: *See*—
Orkin, William S.

Aircraft-Marine Products Inc., Harrisburg, Pa. Combination hand tool. Serial No. 612,193, Oct. 28. Class 23.

Aircraft-Marine Products Inc., Harrisburg, Pa. Combination hand tool. Serial No. 612,195, Oct. 28. Class 23.

Aktiebolaget Orrefors Glasbruk, Orrefors, Sweden. Flat glass, plate glass, sheet-glass, etc. Serial No. 624,802, Oct. 28. Class 33.

Alber Electric Co. Inc., Kansas City, Mo. Electrical installation contracting service, etc. Serial No. 628,183, Oct. 28. Class 103.

Alden Mills, The, New Orleans, La. Men's, women's, and children's hosiery. Serial No. 531,281, Oct. 28. Class 39.

Aldens, Inc., Chicago, Ill. Electrical appliances. Serial No. 625,386, Oct. 28. Class 21.

Allied Chemical & Dye Corporation, New York, N. Y. Chemicals manufacturer's house organ. Serial No. 578,248, Oct. 28. Class 38.

Allied Chemical & Dye Corporation, New York, N. Y. Aerosol insecticidal compositions. Serial No. 599,801, Oct. 28. Class 6.

Allied Products, Inglewood, Calif. Preparation for the relief of piles. Serial No. 628,085, Oct. 28. Class 18.

American Colloid Company, Chicago, Ill. Processed wood flour. Serial No. 626,134, Oct. 28. Class 1.

American Cyanamid Company, New York, N. Y. Medicinal vitamin preparation. Serial No. 622,244, Oct. 28. Class 18.

American Cyanamid Company, New York, N. Y. Antimalarial preparation. Serial No. 633,646, Oct. 28. Class 18.

American National Travelers Service: *See*—
Rushmore, Walter C.

American Rock Wool Corp., Wabash, Ind. Thermal insulating material. Serial No. 622,684, Oct. 28. Class 12.

American Seal-Kap Corporation of Delaware, Long Island City, N. Y. Enzyme powder for treating milk. Serial No. 625,950, Oct. 28. Class 46.

American Smelting and Refining Company, assignee: *See*—
Metals Refining Company Inc.

American Tempo Corporation, Chicago, Ill. Liquid hydrocarbon, fuel packaged in disposable containers. Serial No. 626,362, Oct. 28. Class 6.

Anderson, Albert & J. M., Manufacturing Company, Boston, Mass. Electrical apparatus. Serial Nos. 562,682–3, Oct. 28. Class 21.

Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Finely ground cellulosic product. Serial No. 621,385, Oct. 28. Class 1.

Armentrout, Arthur L., Long Beach, Calif. Dry composition composed principally of expanded perlite. Serial No. 619,666, Oct. 28. Class 1.

Armour and Company, Chicago, Ill. Trypsin for use as a drug. Serial No. 606,254, Oct. 28. Class 18.

Armour and Company, Chicago, Ill. Lard. Serial No. 627,241, Oct. 28. Class 46.

Arrowitz, Michael M., trading and doing business under the name of Pittshire, Pittsfield, Mass. Beads, chains, crucifix centers, etc. Serial No. 613,756, Oct. 28. Class 28.

Ashland Paper Mills, Inc., Ashland, N. H. Toilet tissue. Serial No. 627,109, Oct. 28. Class 37.

Astron Corporation, East Newark, N. J. Metallized-paper capacitors. Serial No. 620,081, Oct. 28. Class 21.

Atlas Powder Company, Wilmington, Del. Adsorptive carbons. Serial No. 610,406, Oct. 28. Class 6.

Audio Products Corporation, Los Angeles, Calif. Miniature replaceable self-contained electronic circuits. Serial No. 623,632, Oct. 28. Class 21.

Automatic Spring Coiling Co., Chicago, Ill. Precision mechanical springs. Serial No. 609,157, Oct. 28. Class 13.

Bargman, Theodore, Detroit, Mich. Electric lamp shade. Serial No. 624,622, Oct. 28. Class 21.

Barker, Edward H., doing business under the name Kitchen Queen Dishwasher Company, Los Angeles, Calif. Non-mechanical dish washing device comprised of hose, brush mount and brush. Serial No. 611,632, Oct. 28. Class 29.

Barrows, Edward F., doing business as Basic Remedies, Monmouth, Oreg. Bottled fluid preparation for stimulating the appetite. Serial No. 620,659, Oct. 28. Class 18.

Basic Remedies: *See*—
Barrows, Edward F.

Bates Shoe Company, Webster, Mass. Men's shoes. Serial No. 618,144, Oct. 28. Class 39.

Beaumont Birch Company, Philadelphia, Pa. Conveyor chains and conveyor chain links. Serial No. 617,182, Oct. 28. Class 23.

Belgo Canadian Mfg. Co. Ltd., Montreal, Quebec, Canada. Cigarette lighters and flints therefor, cigarette cases, cigarette and lighter case combinations, etc. Serial No. 622,290, Oct. 28. Class 8.

Bell, Muriel, Incorporated, New York, N. Y. Perfumes and colognes. Serial No. 595,184, Oct. 28. Class 51.

Bendix Aviation Corporation, Elmira Heights, N. Y. Starter drives and components thereof for electrical automotive engine starters, engine starting mechanisms, etc. Serial No. 542,418, Oct. 28. Class 23.

Bird-Archer Company, The, New York, N. Y. Chemical compound. Serial No. 621,750, Oct. 28. Class 6.

Blum, Milton C., Inc., New York, N. Y. Cotton piece goods. Serial No. 627,168, Oct. 28. Class 42.

Book Club Associates, Inc., Garden City, N. Y. Books. Serial No. 627,791, Oct. 28. Class 38.

Booth Radio & Television Stations, Inc., Detroit, Mich. Radio program broadcasting. Serial No. 627,798, Oct. 28. Class 104.

Booth Radio & Television Stations, Inc., Detroit, Mich. Radio program broadcasting. Serial No. 627,801, Oct. 28. Class 104.

Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. Serial No. 627,249, Oct. 28. Class 39.

Bowdil Company, The, Canton, Ohio. Replaceable cutting tool bits. Serial No. 620,457, Oct. 28. Class 23.

Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Services rendered manufacturers. Serial No. 625,886, Oct. 28. Class 106.

Breco Manufacturing Co., Baltimore, Md. Couplings. Serial No. 620,085, Oct. 28. Class 13.

Brewing Corporation of America, Cleveland, Ohio. Ale. Serial No. 614,749, Oct. 28. Class 48.

Brooks, T. E., & Co., Red Lion, Pa. Cigars. Serial No. 624,444, Oct. 28. Class 17.

Brown, Doris, doing business as The Val-Ring Chemical Company, Burbank, Calif. Chemical preparation. Serial No. 622,692, Oct. 28. Class 52.

Bruce, Stuart: *See*—
MacIntosh, Bruce S.

Brush Development Company, The, Cleveland, Ohio. Switch mechanism. Serial No. 612,726, Oct. 28. Class 21.

Budget Pack, Inc., Los Angeles, Calif. Dried navy beans, uncooked rice, shelled nuts, etc. Serial No. 596,072, Oct. 28. Class 46.

Burrus Mills, Incorporated, doing business under the name and style of Morten Milling Co., Dallas, Tex. Wheat flour. Serial No. 625,963, Oct. 28. Class 46.

Bussmann Manufacturing Company: *See*—
McGraw Electric Company, The.

Caddel, Harold O., doing business under the name of Fish Center, Richmond, Calif. Fresh fish, frozen fish, cooked fish, etc. Serial No. 616,695, Oct. 28. Class 46.

California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Ovicides and miticides. Serial No. 623,706, Oct. 28. Class 6.

Carpenter, E. R., Company, Richmond, Va. Slippers and shoes. Serial No. 623,499, Oct. 28. Class 39.

Carter Sanitary Supply Co., Inc., Cincinnati, Ohio. Odor neutralizer. Serial No. 574,942, Oct. 28. Class 6.

Chefaro Chemische Fabriek "Rotterdam": *See*—
Kleijn, Adrianus.

Chilcott Laboratories, Inc., Morris Plains, N. J. Medical preparations. Serial No. 628,468, Oct. 28. Class 18.

Chrysler Corporation, Highland Park, Mich. Automobiles and their structural parts. Serial No. 611,405, Oct. 28. Class 19.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparations. Serial No. 631,202, Oct. 28. Class 18.

Coastal Laboratories, Inc., Miami, Fla. Sulphur compound. Serial No. 621,867, Oct. 28. Class 18.

Cochrane Corporation, Philadelphia, Pa. Resins to accomplish ion exchange, ion exchange material, etc. Serial No. 610,673, Oct. 28. Class 6.

Coffee County Creamery Inc., doing business as Superior Ice Cream Company, Douglas, Ga. Ice cream and frozen confections. Serial No. 609,166, Oct. 28. Class 46.

Columbia Records Inc., Bridgeport, Conn. Monthly booklet. Serial No. 628,469, Oct. 28. Class 38.

Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Chemicals and chemical compositions. Serial No. 628,471, Oct. 28. Class 6.

Comfort Pillow & Feather Company, Boston, Mass. Pillows. Serial No. 617,836, Oct. 28. Class 32.

Commercial Printing & Letter Service Co., Dallas, Tex. House organs. Serial No. 610,509, Oct. 28. Class 38.

Commercial Solvents Corporation, New York, N. Y. Pharmaceuticals and ingredients of pharmaceuticals. Serial No. 621,617, Oct. 28. Class 18.

Corning Glass Works, Corning, N. Y. Articles of glass—namely glass ash trays and cigarette boxes and cigarette containers. Serial No. 613,764, Oct. 28. Class 8.

Corning Glass Works, Corning, N. Y. Articles of glass—namely glass ash trays and cigarette boxes and cigarette containers. Serial No. 614,868, Oct. 28. Class 8.

Corning Glass Works, Corning, N. Y. Articles of glass—namely book-ends. Serial No. 633,257, Oct. 28. Class 32.

Corning Glass Works, Corning, N. Y. Book-ends. Serial No. 633,258, Oct. 28. Class 32.

Cue Publishing Co. Inc., New York, N. Y. Weekly periodical. Serial No. 628,474, Oct. 28. Class 38.

Da-Lite Screen Company, Inc., Chicago, Ill. Motion picture screens. Serial No. 619,924, Oct. 28. Class 26.

Danciger Oil & Refining Company, assignor to Southern Production Company, Inc., Fort Worth, Tex. Organic solvent. Serial No. 581,798, Oct. 28. Class 6.

Decca Records, Inc., New York, N. Y. Grooved phonograph records. Serial No. 605,252, Oct. 28. Class 36.

Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. Serial No. 629,092, Oct. 28. Class 42.

Denison Engineering Company, The, Columbus, Ohio. Valves. Serial No. 620,838, Oct. 28. Class 13.

Denver Chemical Manufacturing Company, The, New York, N. Y. Sulphurated ointment. Serial No. 622,483, Oct. 28. Class 18.

Diehl Manufacturing Company, Bridgewater Township, Somerset County, N. J., and New York, N. Y. Electric motors, electric generators, electric fans, etc. Serial No. 621,872, Oct. 28. Class 21.

Ditto, Incorporated, Chicago, Ill. Electrically operated duplicating machines. Serial No. 623,130, Oct. 28. Class 21.

Dole Sales Company: *See*—
Empacadora de Loma Bonita, S. A.

Dornbush, Edward, Miami, Fla. Electrical barbecue roaster. Serial Nos. 618,190–1, Oct. 28. Class 21.

Drakenfeld, B. F., & Co., Inc., New York, N. Y., and Washington, Pa. Thermoplastic material that is mixed with ceramic colors for screen printing. Serial No. 608,412, Oct. 28. Class 11.

Drill Master Supply Co., Evansville, Ind. Compressed air systems. Serial No. 599,818, Oct. 28. Class 23.

Dual Electric Triple Alarm Co.: *See*—
Mears, Harold A.

Eagle Pencil Company, New York, N. Y. Lead pencils and crayons. Serial No. 523,194, Oct. 28. Class 37.

Eastern Machine Products Co.: *See*—
Eastern Venetian Blind Company, The.

Eastern Venetian Blind Company, The, trading as Eastern MachineProducts Co., Baltimore, Md. Traverse tracks for drapery. Serial No. 617,657, Oct. 28. Class 13.

Eclipse Sleep Products Inc., Brooklyn, N. Y. Mattresses. Serial No. 625,894, Oct. 28. Class 32.

El-Bar Manufacturing Co., Philadelphia, Pa. Shower curtains. Serial No. 628,931, Oct. 28. Class 42.

El Dorado Oil Works, San Francisco, Calif. Plasticizers. Serial No. 625,526, Oct. 28. Class 6.

Electric & Musical Industries Limited, Hayes, Middlesex, England. Phonographic styluses. Serial No. 524,964, Oct. 28. Class 36.

Electrical Information Publications, Inc., Madison, Wis. Periodical publication. Serial No. 621,203, Oct. 28. Class 38.

Electronic Engineering Co.: *See*—
Solsound Industries, Inc.

Ellena Brothers, Etiwanda, Calif. Wine vinegar. Serial No. 592,363, Oct. 28. Class 46.

Empacadora de Loma Bonita, S. A., Mexico City, Mexico, assignee of Hawaiian Pineapple Company, Ltd., doing business as Dole Sales Company. Canned fruits and canned pineapple juice. Serial No. 605,030, Oct. 28. Class 46.

Empacadora de Productos Alimenticios La Fortaleza S. A. de C. V., Salamanca City, Guanajuato, Mexico. Canned foods. Serial No. 611,933, Oct. 28. Class 46.

Englander Company, Inc., The, Chicago, Ill. Studio couches, studio beds, sofa beds, etc. Serial No. 626,937, Oct. 28. Class 32.

Eutectic Welding Alloys Corporation, Flushing, N. Y. Chemical flux. Serial No. 627,428, Oct. 28. Class 6.

Exterminator Corporation of America, Philadelphia, Pa. Electric vaporizer. Serial No. 625,064, Oct. 28. Class 21.

Falcon Plastic Products Mfg. Co., Culver City, Calif. Light switch plates. Serial No. 622,529, Oct. 28. Class 21.

Fan Tan Gum Corporation, Dayton, Ohio. Chewing gum. Serial No. 617,393, Oct. 28. Class 46.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Dyes. Serial No. 628,264, Oct. 28. Class 6.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Dyes and dyestuffs. Serial No. 628,265, Oct. 28. Class 6.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Dyes and dyestuffs. Serial No. 628,268, Oct. 28. Class 6.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Dyes. Serial No. 628,269, Oct. 28. Class 6.

Farbwerke Hoechst vormals Meister Lucius & Bruning, Frankfort-on-the-Main-Hochst, Germany. Seed dressing agents. Serial No. 628,149, Oct. 28. Class 6.

Faries Manufacturing Company, Decatur, Ill. Medicine cabinets of the recessed type for wall insertion. Serial No. 583,685, Oct. 28. Class 12.

Farmers Engineering & Manufacturing Co., Pittsburgh, Pa. Telephone apparatus. Serial No. 581,871, Oct. 28. Class 21.

Farsouth Growers Co-Op Ass'n.: *See*—
Tropical Agriculture Co-Operative Association.

Farsouth Growers Co-Operative Assc.: *See*—
Tropical Agriculture Co-Operative Association.

Feller-Jones Corporation, New York, N. Y. Cleaner fluid. Serial No. 593,061, Oct. 28. Class 52.

Ferragamo, Salvatore, Firenze, Italy. Men's, women's and children's shoes, boots, sandals, etc. Serial No. 617,841, Oct. 28. Class 39.

Finger Lakes Chemical Company, Inc., Etna, N. Y. Detergent cleaning compound. Serial No. 627,124, Oct. 28. Class 52.

Firmenich Incorporated, New York, N. Y. Synthetic and natural aromatic chemicals and essential oils. Serial No. 614,694, Oct. 28. Class 52.

Fish Center: *See*—
Caddel, Harold O.

Flex-O-Glass, Inc., doing business as Warp Brothers, Chicago, Ill. Laminated, flexible, metallic-netting-reinforced building paper. Serial No. 615,379, Oct. 28. Class 12.

Flintkote Company, The, New York, N. Y. Bituminous paper sizing composition. Serial No. 629,006, Oct. 28. Class 6.

Foley & Company, Chicago, Ill. Antibiotic anesthetic throat lozenges. Serial No. 600,826, Oct. 28. Class 18.

Foley & Company, Chicago, Ill. Antibiotic anesthetic throat lozenges. Serial No. 609,033, Oct. 28. Class 18.

Foote, D. E., & Co. Incorporated, Baltimore, Md. Canned vegetables. Serial No. 627,566, Oct. 28. Class 46.

Foote, D. E., & Co. Incorporated, Baltimore, Md. Canned vegetables. Serial No. 627,568–9, Oct. 28. Class 46.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 628,756, Oct. 28. Class 42.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No 628,854, Oct. 28. Class 42.

Fowlkes, Anne M., doing business as Minor Fowlkes, East Orange, N. J. Supports adapted to be applied to beds. Serial No. 626,237, Oct. 28. Class 32.

Fowlkes, Minor: *See*—
Fowlkes, Anne M.

Fruit Products Corporation, New York, N. Y. Empty bags. Serial No. 627,433, Oct. 28. Class 2.

Fruit Products Corporation, New York, N. Y. Empty bags. Serial No. 627,435, Oct. 28. Class 2.

Fruit Products Corporation, New York, N. Y. Empty bags. Serial No. 627,437, Oct. 28. Class 2.

Fruit Products Corporation, New York, N. Y. Empty bags. Serial No. 627,439, Oct. 28. Class 2.

Fugate & Girton Driveaway Co., Inc., Brazil, Ind., and Springfield, Ohio. Delivering automotive vehicles. Serial No. 623,956, Oct. 28. Class 105.

G-M Liquid Plastics, Ltd.: *See*—
Goodenow, Earle A.

Garcia International Corporation, Chicago, Ill. Mufflers, tail pipes, exhaust pipes, etc. Serial No. 619,296, Oct. 28. Class 19.

Gardiner Manufacturing Company, Inc., Buffalo, N. Y. Sodium hypochlorite solution. Serial No. 622,535, Oct. 28. Class 52.

Gardner, F. B., Co., Inc., Los Angeles, Calif. Louver dampers, right angle dampers, round dampers, etc. Serial No. 600,430, Oct. 28. Class 34.

Gavender, Nat, Incorporated, St. Louis, Mo. Printed publication. Serial No. 584,617, Oct. 28. Class 38.

General Aniline & Film Corporation, New York, N. Y. Light-sensitive diazotype papers, cloth, films, and light-sensitive copying and photographic papers. Serial No. 616,285, Oct. 28. Class 26.

General Controls Co., Glendale, Calif. Controller for adjusting the damper of a gas burning furnace. Serial No. 600,431, Oct. 28. Class 34.

Getz, William, Corporation, The, Chicago, Ill. Germicidal preparation. Serial No. 567,193, Oct. 28. Class 18.

Girard's, Inc., San Rafael, Calif. Salad dressings. Serial No. 627,260, Oct. 28. Class 46.

Gladding, McBean & Co., Los Angeles, Calif. Ceramic floor and wall tile. Serial No. 591,567, Oct. 28. Class 12.

Globe Mills, Inc.: *See*—
Lone Star Elevators.

Gobbler's Knob Hickory, Inc., Paris, Tenn. Hardwood chips. Serial No. 626,739, Oct. 28. Class 1.

Gold Medal Hair Products Inc., Brooklyn, N. Y. Detergent shampoo, lanolin cream shampoo, etc. Serial No. 628,153, Oct. 28. Class 52.

Goodenow, Earle A., doing business as G-M Liquid Plastics, Ltd., Oklahoma City, Okla. Liquid for treating nylon and other fabrics. Serial No. 595,375, Oct. 28. Class 6.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Decalcomania signs, printed creeds, manuals, etc. Serial No. 607,990, Oct. 28. Class 38.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Liquid metal polish and porcelain cleaner, creme furniture polish, etc. Serial No. 616,009, Oct. 28. Class 4.

Great Books Foundation, The, Chicago, Ill. Periodical. Serial No. 626,875, Oct. 28. Class 38.

Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Preparations for cleaning, coloring, dressing, polishing and shining shoes, boots, etc. Serial Nos. 615,892–3, Oct. 28. Class 4.

Griffith Laboratories, Inc., The, Chicago, Ill. Liquid preparation of papaya juice. Serial No. 612,984, Oct. 28. Class 46.

Gro-Cord Rubber Company, Lima, Ohio. Shoe soles. Serial No. 624,537, Oct. 28. Class 39.

Groves Thread Company, Inc., Gastonia, N. C. Thread. Serial Nos. 628,322–3, Oct. 28. Class 43.

Guardian Electric Manufacturing Co., Chicago, Ill. Electromagnets, relays, solenoids and switches. Serial No. 559,152, Oct. 28. Class 21.

Gurvich, Max A., doing business as Pacific Chemical Manufacturing Co., Seattle, Wash. Detergents. Serial No. 628,760, Oct. 28. Class 52.

H & H Distributing Company, Inc., Chicago, Ill. Whiskey. Serial No. 611,356, Oct. 28. Class 49.

Hanser, John, Jr., doing business under the name of John Hanser Soap Co., Milwaukee, Wis. Soap flakes in packages and soap in bars. Serial No. 627,389, Oct. 28. Class 52.

Hanser, John, Soap Co.: *See*—
Hanser, John, Jr.

Harvard Manufacturing Company, The, doing business using the name Harvard of Cleveland, Cleveland, Ohio. Bed frames; bed head boards; Hollywood bed frames, etc. Serial No. 600,008, Oct. 28. Class 32.

Harvard of Cleveland: *See*—
Harvard Manufacturing Company, The.

Hawaiian Pineapple Company, Ltd.: *See*—
Empacadora de Loma Bonita, S. A.

Heisele, John, St. Louis, Mo. Preparation for the treatment of piles. Serial No. 624,085, Oct. 28. Class 18.

Hercules Powder Company, Wilmington, Del. Defoamers. Serial Nos. 628,204–5, Oct. 28. Class 6.

Heublein, G. F., & Bro., Inc., Hartford, Conn. Vodka. Serial No. 625,202, Oct. 28. Class 49.

Hillyard Chemical Company, St. Joseph, Mo. Liquid wax. Serial No. 614,942, Oct. 28. Class 4.

Hobart Manufacturing Company, The, Troy, Ohio. Inspection, maintenance, and repair service. Serial No. 617,083, Oct. 28. Class 103.

Holland Color and Chemical Company, Holland, Mich. Chemical colors. Serial No. 631,737, Oct. 28. Class 6.

Holman Brothers Limited, Camborne, England. Rock drills. Serial No. 627,131, Oct. 28. Class 23.

Honey-Kream Distributing Co.: *See*—
Schreibman, Louis F.

Houston-Fearless Corporation: *See*—
Monogram Manufacturing Co.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand operated compression sprayers. Serial No. 626,887, Oct. 28. Class 23.

Hunt, Rodney, Machine Co., Orange, Mass. Evaporators. Serial No. 628,127, Oct. 28. Class 34.

Hyatt and Weisskopf Garment Co., St. Louis, Mo. Women's and misses' suits and coats. Serial No. 614,148, Oct. 28. Class 39.

Imperial Chemical (Pharmaceuticals) Limited, Millbank, London, England. Anticonvulsants. Serial No. 620,216, Oct. 28. Class 18.

International Minerals & Chemical Corporation, Chicago, Ill. Composition of glycocyamine and a methylating agent. Serial No. 612,331, Oct. 28. Class 18.

International Shoe Company, St. Louis, Mo. Men's, women's and children's shoes. Serial No. 616,293, Oct. 28. Class 39.

Iron Fireman Manufacturing Company, assignee: *See*—
Petroleum Heat and Power Company.

Jackson, Byron, Co., Vernon, Calif. Pumps. Serial No. 600,379, Oct. 28. Class 23.

Jerusalem Pencils Limited, Benei-Brag, near Tel-Aviv, Israel. Pencils. Serial No. 617,033, Oct. 28. Class 37.

Johns-Manville Corporation, New York, N. Y. Asbestos-cement pipe couplings. Serial No. 574,037, Oct. 28. Class 12.

Johnson, Arne B., doing business under the style name of Johnson Radio & Machine Co., Madison, Wis. Electrical bottle warmers. Serial No. 624,272, Oct. 28. Class 21.

Johnson Radio & Machine Co.: *See*—
Johnson, Arne B.

Juillard Fancy Foods Co., San Francisco, Calif. Aperitif wine. Serial No. 625,477, Oct. 28. Class 47.

Katz, A.: *See*—
Katz, Adolph A.

Katz, Adolph A., doing business under the name A. Katz, New York, N. Y. Decorative linens. Serial No. 627,579, Oct. 28. Class 42.

Kaufman, Wynne, doing business under the name and style of Russmark Greetings, New York, N. Y. Greeting cards. Serial No. 602,406, Oct. 28. Class 38.

Kellogg, A. W., Long Beach, Calif. Liquid adhesive. Serial No. 628,210, Oct. 28. Class 5.

Keuffel & Esser Company, Hoboken, N. J. Measuring tapes. Serial No. 616,324, Oct. 28. Class 26.

Keystone Scent-Conditioner Corp., Philadelphia, Pa. Electrically operated deodorizer. Serial No. 615,184, Oct. 28. Class 21.

Kilgore, Charles, Company, Inc., Yonkers, N. Y. Low-calorie chocolate-flavored pudding. Serial No. 629,245, Oct. 28. Class 46.

Kimball, W. W., Company, Chicago, Ill. Sound boards for pianos. Serial No. 603,066, Oct. 28. Class 36.

Kitchen Queen Dishwasher Company: *See*—
Barker, Edward H.

Klauer Manufacturing Company, Dubuque, Iowa. Stamped metal ceilings, metal roofings, etc. Serial No. 592,373, Oct. 28. Class 12.

Kleijn, Adrianus, trading as Chefaro Chemische Fabriek "Rotterdam," Rotterdam-West, South Holland, Netherlands. Chemical flour bleach. Serial No. 621,672, Oct. 28. Class 6.

Knoll Associates, Inc., New York, N. Y. Articles of furniture. Serial No. 617,502, Oct. 28. Class 32.

Koppers Company, Inc., Pittsburgh, Pa. Printed publications. Serial No. 626,087, Oct. 28. Class 38.

Koulouris & Casaretto Co., doing business under the fictitious name of Orica Trading Company, Los Angeles, Calif. Fruit. Serial No. 610,852, Oct. 28. Class 46.

Krause, Chas. A., Milling Co., Milwaukee, Wis. Flaked corn product used in the manufacture of alcoholic malt beverages. Serial No. 613,297, Oct. 28. Class 48.

L. & H. Chemical Laboratories: *See*—
Lay, Bascom.

La Motoconfort, Pantin, (Seine), France. Motorcycles. Serial No. 609,804, Oct. 28. Class 19.

Laros of Bethlehem: *See*—
Laros Textiles Company.

Laros Textiles Company, doing business under the name of Laros of Bethlehem, Bethlehem, Pa. Drugs. Serial Nos. 616,504–5, Oct. 28. Class 18.

La Salle Steel Company, Hammond, Ind. Threaded steel rods. Serial No. 598,192, Oct. 28. Class 14.

Lay, Bascom, doing business under the name of L. & H. Chemical Laboratories, Nashville, Ark. Preparation for cleaning the hands. Serial No. 629,029, Oct. 28. Class 52.

Leggies Co.: *See*—
Walbridge, Norton S.

Leitner Equipment Company, Chicago, Ill. Food and beverage service equipment. Serial No. 591,303, Oct. 28. Class 34.

Lekas & Drivas, Inc., New York, N. Y. Cheese. Serial No. 626,515, Oct. 28. Class 46.

Lone Star Elevators, Amarillo, Tex., assignee of Globe Mills, Inc. Wheat flour. Serial No. 561,011, Oct. 28. Class 46.

Los Angeles Soap Company, Los Angeles, Calif. Detergents and/or soaps. Serial No. 628,769, Oct. 28. Class 52.

Love, Alice, Products Co., Portland, Oreg. Fruit jams and jellies. Serial No. 629,209, Oct. 28. Class 46.

Loxit Systems, Inc., Chicago, Ill. Metal chalk troughs, head and mullion trim channels, and metal end stops. Serial No. 586,179, Oct. 28. Class 12.

Lusterized Service Co., Spokane, Wash. Chemical cleaning fluid and a powdered cleaning preparation. Serial No. 612,696, Oct. 28. Class 52.

MacIntosh, Bruce S., doing business as Bruce Stuart, Los Angeles, Calif. Ladies' and misses' dresses, suits, and coats. Serial No. 614,447, Oct. 28. Class 39.

Main Street Fashions, Inc., New York, N. Y. Plastic film. Serial No. 627,758, Oct. 28. Class 42.

Massengill, S. E., Company, The, Bristol, Tenn. Oral pharmaceutical preparation. Serial No. 626,094, Oct. 28. Class 18.

Mathews Conveyer Company, Ellwood City, Pa. Wheel conveyers, chutes, roller conveyers, etc. Serial No. 607,710, Oct. 28. Class 23.

Mautz Paint & Varnish Company, Madison, Wis. Wax. Serial No. 616,297, Oct. 28. Class 4.

McCall Corporation, New York, N. Y. Printed and transfer patterns. Serial No. 631,455, Oct. 28. Class 26.

McGraw Electric Company, The, Elgin, Ill., doing business as Bussmann Manufacturing Company, St. Louis, Mo. Electric fuses, fuse holders, fuse wire, etc. Serial No. 574,445, Oct. 28. Class 21.

Meadows, Virgil E., Bronxille, N. Y. Medicated liquid skin cream. Serial No. 623,898, Oct. 28. Class 18.

Mears, Harold A., doing business as Dual Electric Triple Alarm Co., Knoxville, Tenn. Electrical burglar alarm systems and parts thereof. Serial No. 625,858, Oct. 28. Class 21.

Meier & Pohlmann Furniture Company, St. Louis, Mo. Dining and dinette tables and chairs, etc. Serial No. 625,115, Oct. 28. Class 32.

Merck & Co., Inc., Rahway, N. J. Therapeutic substance. Serial No. 626,466, Oct. 28. Class 18.

Metals Refining Company Inc., Hammond, Ind., assignor to American Smelting and Refining Company, New York, N. Y. Type metal. Serial No. 620,428, Oct. 28. Class 14.

Met-L-Glas Corporation, Seattle, Wash. Sectional tubular thermal insulating members. Serial No. 607,228, Oct. 28. Class 12.

Michigan Oven Company, Detroit, Mich. Insulated ovens. Serial No. 623,312, Oct. 28. Class 34.

Mij. "De Betuwe" N. V., Tiel, Netherlands. Wines. Serial No. 620,926, Oct. 28. Class 47.

Miles Reproducer Co., New York, N. Y. Electrical sound recording and reproducing machines and parts thereof. Serial No. 624,284, Oct. 28. Class 21.

Miles Shoes Incorporated, New York, N. Y. Shoes. Serial No. 623,313, Oct. 28. Class 39.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Putty-like electrical insulating compound. Serial No. 625,020, Oct. 28. Class 21.

Modglin Company, Inc., Los Angeles, Calif. Mop heads. Serial No. 628,287, Oct. 28. Class 29.

Moll, Harry, Denver, Colo. Rubber ice molds. Serial No. 574,235, Oct. 28. Class 31.

Molson's Brewery Limited, Montreal, Quebec, Canada. Ale and porter. Serial No. 626,399, Oct. 28. Class 48.

Molson's Brewery Limited, Montreal, Quebec, Canada. Ale and porter. Serial No. 626,401, Oct. 28. Class 48.

Monogram Manufacturing Co., Los Angeles, and West Los Angeles, assignor to Houston-Fearless Corporation, Los Angeles, Calif. Device for maintaining a seal between a rotatable member. Serial No. 574,154, Oct. 28. Class 23.

Morten Milling Co.: *See*—
Burrus Mills, Incorporated.

Mother's Remedies Corporation, Chicago, Ill. Liquid dietary vitamin tonic. Serial No. 621,895, Oct. 28. Class 18.

Mulhens, Ferd., Inc., New York, N. Y. Soap. Serial No. 623,360, Oct. 28. Class 52.

Mynor Pty. Ltd., Mosman, near Syndney, Australia. Canned or bottled deciduous and citrus fruit juices, canned and preserved fruits, etc. Serial No. 604,558, Oct. 28. Class 46.

N. V. Koninklijke Delftsch Aardewerkfabriek "De Porceleyne Fles" Voorheen Joost Thooft en Labouchere (N. V. Faiencerie Royale de Delft "De Porceleyne Fles," ci-devant Joose Thooft et Labouchere, N. V. Royal Delft Ware Manufactory "De Porceleyne Fles," cate Joost Thooft and Labouchere, Konigliche Delfter Faience Fabrik "De Porceleyne Fles," vormals Joost Thooft und Labouchere, Delft, Netherlands. Ceramic products. Serial No. 562,384, Oct. 28. Class 30.

National Comics Publications, Inc., New York, N. Y. Periodical publication. Serial No. 617,094, Oct. 28. Class 38.

National Cylinder Gas Company, Chicago, Ill. Rental, maintenance and repair of compressed gas producing and handling apparatus. Serial No. 548,386, Oct. 28. Class 103.

National Electric Products Corporation, Pittsburgh, Pa. Cables. Serial No. 613,727, Oct. 28. Class 21.

National Filter Media Corporation, The, New Haven, Conn. Bags of woven filter cloth. Serial No. 619,029, Oct. 28. Class 31.

National Mask and Puppet Corporation, Brooklyn, N. Y. Dolls. Serial No. 627,636, Oct. 28. Class 22.

National Recreation Association, Inc., New York, N. Y. Weekly magazine. Serial No. 603,540, Oct. 28. Class 38.

Natkin & Company, St. Louis, Mo. Display benches, cabinets, display counters, etc. Serial No. 617,766, Oct. 28. Class 32.

Neill, James, & Co. (Sheffield) Limited, Sheffield, England. Tool bits, angle plates, V-blocks, etc. Serial No. 621,084, Oct. 28. Class 23.

Newbro Manufacturing Company, Atlanta, Ga. Preparation for use on the hair and scalp. Serial No. 623,774, Oct. 28. Class 51.

New Holland Machine Company, New Holland, Pa. Belting. Serial No. 583,545, Oct. 28. Class 35.

Nixon Nitration Works, Nixon, N. J. Plasticized and unplasticized vinyl type plastic. Serial No. 584,634, Oct. 28. Class 1.

Norgren, C. A., Co., Denver, Colo. Filters. Serial No. 617,049, Oct. 28. Class 31.

Northwest Publications, Inc., St. Paul, Minn. Advertising food products, kitchen necessities, and cooking equipment. Serial No. 591,696, Oct. 28. Class 101.

Nu • Side Corporation, assignee: *See*—
Re-Nu-It Corporation.

Old Copper Mine Farms Inc., Warrenville, N. J. Cold frames and hot beds for plants and flowers. Serial No. 627,458, Oct. 28. Class 50.

Oliver Corporation, The, Chicago, Ill. Walking plows, two-way tractor sulky plows, etc. Serial No. 614,214, Oct. 28. Class 23.

Oneida Ltd., Oneida and Sherrill, N. Y. Series of pamphlets. Serial No. 600,735, Oct. 28. Class 38.

Orica Trading Company: *See*—
Koulouris & Casaretto Co.

Orkin, William S., doing business as Agenda Club Service, New York, N. Y. Monthly publication. Serial No. 617,207, Oct. 28. Class 38.

Orringer Pickle Company, New Berne, N. C. Canned goods. Serial No. 591,949, Oct. 28. Class 46.

Ottenheimer, Reuben E., Baltimore, Md. Window sash, window frames, window molding, etc. Serial No. 612,756, Oct. 28. Class 12.

Overseas Finance & Trading Company Inc., San Francisco, Calif. Binoculars. Serial No. 619,403, Oct. 28. Class 26.

Overseas Finance & Trading Company Inc., San Francisco, Calif. Photographic lenses. Serial No. 619,404, Oct. 28. Class 26.

Overseas Finance & Trading Company Inc., San Francisco, Calif. Cameras. Serial No. 619,405, Oct. 28. Class 26.

Ozark-Mahoning Company, Tulsa, Okla. Submerged combustion burners. Serial No. 610,334, Oct. 28. Class 34.

P. B. R. Manufacturing Co., Philadelphia, Pa. Folding tables, folding chairs, folding utility shelves. Serial No. 618,650, Oct. 28. Class 32.

Pacific Chemical Manufacturing Co.: *See*—
Gurvich, Max A.

Paramount-Florida Photo Service, Inc., doing business as Sun Photo Service, Jacksonville, Fla. Photo prints. Serial No. 628,165, Oct. 28. Class 38.

Parents' Institute, Inc., The, New York, N. Y. Department in a periodical publication. Serial No. 626,820, Oct. 28. Class 38.

Parents' Institute, Inc., The, New York, N. Y. Magazine. Serial No. 626,821, Oct. 28. Class 38.

Parrott & Co., San Francisco, Calif. Canned fruits and vegetables, frozen fruits and vegetables, canned fish, etc. Serial No. 619,213, Oct. 28. Class 46.

Pax Metal Corporation, Los Angeles, Calif. Finished metal building trim. Serial No. 584,636, Oct. 28. Class 12.

Peck's Products Company, St. Louis, Mo. Soaps, compounds for washing baking pans, etc. Serial No. 609,195, Oct. 28. Class 52.

Peck's Products Company, St. Louis, Mo. Powdered hand soap, hand cleaning paste, etc. Serial No. 626,336, Oct. 28. Class 52.

Permu Products Company, The, Cleveland, Ohio. Fungicidal preparation. Serial No. 626,338, Oct. 28. Class 6.

Permoflux Corporation, Chicago, Ill. Permanent magnet dynamic loudspeakers, baffles, and housings therefor and parts thereof. Serial No. 625,122, Oct. 28. Class 21.

Petroleum Heat and Power Company, Stamford, Conn., assignor to Iron Fireman Manufacturing Company, Cleveland, Ohio. Liquid fuel pumps and water circulating pumps. Serial No. 620,857, Oct. 28. Class 23.

Petroleum Specialties, Inc., New York, N. Y. Wax of petroleum origin. Serial No. 627,598, Oct. 28. Class 15.

Pfaff & Kendall, Newark, N. J. Street and highway lighting standards and poles. Serial No. 602,285, Oct. 28. Class 12.

Pharma Chemical Corporation, New York, N. Y., and Bayonne, N. J. Dyes, and intermediate chemicals. Serial No. 621,479, Oct. 28. Class 6.

Phillips Chemical Company, Bartlesville, Okla. Petroleum oils. Serial No. 627,353, Oct. 28. Class 6.

Piasecki Helicopter Corporation, Morton, Pa. Aircraft. Serial No. 611,305, Oct. 28. Class 19.

Pittshire: *See*—
Arrowitz, Michael M.

Plas-Ties Company, Santa Ana, Calif. Plant and bunching ties. Serial No. 623,519, Oct. 28. Class 7.

Plibrico Company: *See*—
Plibrico Jointless Firebrick Company.

Plibrico Jointless Firebrick Company, Chicago, Ill., now by change of name, Plibrico Company. Thermosetting plastic refractory material. Serial No. 612,349, Oct. 28. Class 12.

Porto-Clinic Instruments, Inc., New York, N. Y. Portable apparatus for testing automotive operators. Serial No. 587,911, Oct. 28. Class 26.

Powell, William, Company, The, Cincinnati, Ohio. Gate valves. Serial No. 571,290, Oct. 28. Class 13.

Precision-Cosmet Company, Inc., Minneapolis, Minn. Ornamental trim applied to rimless mountings or frames for eyeglasses. Serial No. 612,084, Oct. 28. Class 26.

Rabin Company, The, Los Angeles, Calif. Vitamin preparations. Serial No. 625,920, Oct. 28. Class 18.

Rapidol Distributing Corporation, New Hyde Park, N. Y. Hair rinse. Serial No. 606,050, Oct. 28. Class 51.

Re-Nu-It Corporation, assignor to Nu Side Corporation, New York, N. Y. Resurfacing material. Serial No. 606,175, Oct. 28. Class 12.

Republic Gear Company, Detroit, Mich. Universal joints. Serial No. 628,428, Oct. 28. Class 23.

Rider, Kenneth N., Company, Inc., Trafalgar, Ind. Canned vegetables. Serial No. 613,383, Oct. 28. Class 46.

Roberts Dairy Company, Omaha, Nebr. Skimmed milk. Serial No. 627,086, Oct. 28. Class 46.

Roman Meal Company, Tacoma, Wash. Bread, biscuits, and crackers. Serial No. 627,088, Oct. 28. Class 46.

Roman Meal Company, Tacoma, Wash. Bread, biscuits, cookies, and crackers. Serial No. 627,089, Oct. 28. Class 46.

Rubinstein, Charles L., doing business as Ruby Products Co., Milwaukee, Wis. Household paper supplies. Serial No. 604,106, Oct. 28. Class 37.

Ruby Products Co.: *See*—
Rubinstein, Charles L.

Rushmore, Walter C., doing business as American National Travelers Service, Denver, Colo. Travel services. Serial No. 584,419, Oct. 28. Class 105.

Russmark Greetings: *See*—
Kaufman, Wynne.

Sage Laboratories, Inc., New York, N. Y. Shampoo. Serial No. 626,345, Oct. 28. Class 52.

Sales Affiliates, Inc., New York, N. Y. Waving lotion. Serial No. 616,051, Oct. 28. Class 51.

Salmanson & Co., Inc., New York, N. Y. Book cases, book shelves, chests, etc. Serial No. 626,054, Oct. 28. Class 32.

Sanborn Hermanos, S. A., Mexico City, Mexico. Candies. Serial No. 551,477, Oct. 28. Class 46.

Sandess Manufacturing Co., Philadelphia, Pa. Textile fabrics in the piece. Serial No. 628,879, Oct. 28. Class 42.

Saunders, Bob, Co.: *See*—
Saunders, Robert D.

Saunders, Robert D., doing business as Bob Saunders Co., Watsonville, Calif. Fresh vegetables. Serial No. 625,545, Oct. 28. Class 46.

Sayres, Stanley S., doing business as Seattle Speed Boat Co., Seattle, Wash. Toy model boat. Serial No. 627,463, Oct. 28. Class 22.

Scandinavian Coffee Corp., Brooklyn, N. Y. Coffee. Serial No. 626,828, Oct. 28. Class 46.

Schenley Laboratories, Inc., New York, N. Y. Polyvinyl pyrrolidone. Serial No. 627,972, Oct. 28. Class 18.

Schmetz Needle Corporation, New York, N. Y. Sewing machine needles. Serial No. 624,052, Oct. 28. Class 23.

Schmierer, Helen L., trading as Soothee-Shade Company, Maple Shade, N. J. Shade designed to hold eye pads. Serial No. 622,959, Oct. 28. Class 44.

Schofield, C. A., doing business under the name and style of C. A. Schofield Co., Philadelphia, Pa. Table tops, cabinet tops, and counter tops. Serial No. 625,370, Oct. 28. Class 32.

Schofield, C. A., Co.: *See*—
Schofield, C. A.

Schramm Inc., West Chester, Pa. Engine driven electrical welders and engine driven electrical generators. Serial No. 624,305, Oct. 28. Class 21.

Schreibman, Louis F., doing business as Honey-Kream Distributing Co., Philadelphia, Pa. Potato chips, pretzels, and pretzel sticks. Serial No. 568,329, Oct. 28. Class 46.

Schwartz, Morris, & Sons, Inc., New York, N. Y. Women's and misses' cloth coats and fur lined and fur trimmed cloth coats. Serial No. 613,425, Oct. 28. Class 39.

Scott, O. M., & Sons Company, Marysville, Ohio. Chemical preparation. Serial No. 625,634, Oct. 28. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Venetian blind cleaner. Serial No. 613,735, Oct. 28. Class 52.

Seattle Speed Boat Co.: *See*—
Sayres, Stanley S.

Seidelhuber Iron and Bronze Works, Incorporated, Seattle, Wash. Electrically heated water tanks. Serial No. 624,799, Oct. 28. Class 21.

Sekine, I., Company, Inc., New York, N. Y. Toothbrushes. Serial No. 626,709, Oct. 28. Class 29.

Shimer, Samuel J., & Sons, Inc., Milton, Pa. Cutter heads and milling cutter knives. Serial No. 589,117, Oct. 28. Class 23.

Show Dog Products, Chicago, Ill. Shampoo preparation. Serial No. 624,308, Oct. 28. Class 52.

Sikes Company, Inc., The, Buffalo, N. Y. Bedroom dressers, night stands, chests. Serial No. 615,138, Oct. 28. Class 32.

Simonds Saw and Steel Company, Fitchburg, Mass. Machine knives and shears, and saw bits. Serial No. 627,014, Oct. 28. Class 23.

Smith, Alvis R., Spokane, Wash. Preparations to be applied to the hair and scalp to stimulate hair growth and condition the scalp. Serial No. 600,790, Oct. 28. Class 51.

Smith Bros. & Hughes, San Diego, Calif. Welding tips and inserts. Serial No. 618,716, Oct. 28. Class 34.

Smith-Dorsey Company, The, Lincoln, Nebr., assignor to The Wander Company, Chicago, Ill. Antasthmatic rectal suppositories. Serial No. 601,339, Oct. 28. Class 18.

Soap Specialties, Inc., Philadelphia, Pa. Sudsing detergent. Serial No. 628,966, Oct. 28. Class 52.

Societe d'Etudes et de Fabrications d'Articles Modernes d'Organisation (S. E. F. A. M. O.), Les Lilas (Seine), France. Office furniture. Serial No. 618,764, Oct. 28. Class 32.

Solsound Industries, Inc., doing business as Electronic Engineering Co., Akron, Ohio. Units for local, voice-communicating, electrically operated, inter-communication systems. Serial Nos. 610,591–2, Oct. 28. Class 21.

Solvay & Cie., Brussels, Belgium. Insecticides, insect repellents, and disinfectants. Serial No. 625,044, Oct. 28. Class 6.

Soothee-Shade Company: *See*—
Schmierer, Helen L.

Southeastern Syrup Company, Jackson, Tenn. Table syrup. Serial No. 626,757, Oct. 28. Class 46.

Southern Production Company, Inc., assignee: *See*—
Danciger Oil & Refining Company.

Southland Coffee Company, Atlanta, Ga. Coffee. Serial No. 627,605, Oct. 28. Class 46.

Squibb, E. R., & Sons, New York, N. Y. Preparation for animal feed supplementation. Serial No. 614,267, Oct. 28. Class 18.

Staley, A. E., Manufacturing Company, Decatur, Ill. Animal feeds. Serial No. 632,582, Oct. 28. Class 46.

Staley, A. E., Manufacturing Company, Decatur, Ill. Animal feeds. Serial No. 632,584, Oct. 28. Class 46.

Standard Electric Time Company, The, Springfield, Mass. Electric switchboard panels and motor-generator sets. Serial No. 621,339, Oct. 28. Class 21.

Star Brush Manufacturing Co., Inc., Boston, Mass. Paint application roller. Serial No. 617,590, Oct. 28. Class 29.

Stein, Irving, Wilkes-Barre, Pa. Fur skins. Serial No. 612,876, Oct. 28. Class 1.

Stelzer, Otto E., German Township, St. Joseph County, Ind. Acrylic cement. Serial No. 628,968, Oct. 28. Class 5.

Stork Shop, Inc., The, Memphis, Tenn. Lingerie. Serial No. 592,582, Oct. 28. Class 39.

Strass-Elniger Mills, Inc., New York, N. Y. Textiles fabrics. Serial No. 621,846, Oct. 28. Class 42.

Sue Ann Food Products Corporation, Chicago, Ill. Cocktail sauce. Serial No. 616,343, Oct. 28. Class 46.

Sun Photo Service: *See*—
Paramount-Florida Photo Service, Inc.

Superior Ice Cream Company: *See*—
Coffee County Creamery Inc.

Superior Pharmacal Co., The, Dayton, Ohio. Antacid for treatment of stomach ulcers. Serial No. 622,365, Oct. 28. Class 18.

Szydlowski, Joseph, Turbomeca Bordes, France. Internal combustion engines and parts thereof. Serial Nos. 627,097–9, Oct. 28. Class 23.

Tegarden, Paul E., Indianapolis, Ind. Silent, electrical vehicular passing signal. Serial No. 625,305, Oct. 28. Class 21.

Telecomputing Corporation, Burbank, Calif. Electric apparatus utilizing a recording and projecting system. Serial No. 591,210, Oct. 28. Class 26.

Tenak Products Company, Chicago, Ill. Plastic moldable tablets for use in the formation of electrotypes, etc. Serial No. 623,997, Oct. 28. Class 1.

Thomas Flexible Coupling Company, Warren, Pa. Flexible machinery couplings. Serial No. 626,969, Oct. 28. Class 23.

Toidey Company, Gertrude A. Muller, Inc., The, Fort Wayne, Ind. Infants' disassembled furniture. Serial No. 623,934, Oct. 28. Class 32.

Trade Wind Importing Co., Mount Vernon, N. Y. Bamboo roll-up blinds for windows. Serial No. 624,166, Oct. 28. Class 32.

Tropical Agriculture Co-Operative Association, doing business as Farsouth Growers Co-Operative Assc., Goulds, Fla. Potatoes. Serial No. 622,517, Oct. 28. Class 46.

Tropical Agriculture Co-Operative Association, doing business as Farsouth Growers Co-Op Ass'n., Goulds, Fla. Potatoes. Serial No. 622,518, Oct. 28. Class 46.

Union Carbide and Carbon Corporation, New York, N. Y. Graphite electrodes and graphite nipples. Serial No. 611,982, Oct. 28. Class 21.

Union Oil Company of California, Los Angeles, Calif. Lubricating automobiles and other motor vehicles. Serial No. 535,275, Oct. 28. Class 103.

United Feature Syndicate, Inc., New York, N. Y. Newspaper column. Serial No. 624,063, Oct. 28. Class 38.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. Serial No. 631,228, Oct. 28. Class 42.

United States Gypsum Company, Chicago, Ill. Basement sash. Serial No. 539,125, Oct. 28. Class 12.

United States Gypsum Company, Chicago, Ill. Metal casting plaster. Serial No. 628,310, Oct. 28. Class 12.

Universal Refining Products Co., Inc., New York, N. Y. Chemical compound. Serial No. 617,636, Oct. 28. Class 6.

Val-Ring Chemical Company, The: *See*—
Brown, Doris.

Vance, Sanders & Company, Boston, Mass. Weekly trade magazine. Serial No. 614,858, Oct. 28. Class 38.

Vanity Fair Mills, Inc., Reading, Pa. Women's apparel. Serial No. 626,649, Oct. 28. Class 39.

Vikon Tile Corporation, Washington, N. J. Panel display boards. Serial No. 623,939, Oct. 28. Class 50.

WJW, Inc., Cleveland, Ohio. Radio program broadcasting services. Serial No. 628,883, Oct. 28. Class 104.

Walbridge, Norton S., doing business as Leggies Co., Detroit, Mich. Cream toilet preparation. Serial Nos. 623,860–1, Oct. 28. Class 51.
Wallerstein Company, Inc., New York, N. Y. Fungal enzyme supplementing preparation for use in baking. Serial No. 626,971, Oct. 28. Class 46.
Wander Company, The, assignee: *See*—
Smith-Dorsey Company, The.
Ward Leonard Electric Company, Mount Vernon, N. Y. Electric resistors. Serial No. 624,170, Oct. 28. Class 21.
Warp Brothers: *See*—
Flex-O-Glass, Inc.
Weekly Publications, Inc., New York, N. Y. Department or section of a periodical publication. Serial No. 627,992, Oct. 28. Class 38.
West Disinfecting Company, Long Island City, N. Y. Spray fluid deodorant. Serial No. 625,146, Oct. 28. Class 6.
West Disinfecting Company, Long Island City, N. Y. Deodorizing fluid. Serial No. 625,149, Oct. 28. Class 6.
West Disinfecting Company, Long Island City, N. Y. Spray fluid deodorant. Serial No. 625,159, Oct. 28. Class 6.
West Disinfecting Company, Long Island City, N. Y. Liquid soap. Serial No. 625,169, Oct. 28. Class 52.
Westminster Laboratories Limited, London, England. Laxative preparations. Serial No. 628,800, Oct. 28. Class 18.
White-Haines Optical Company, The, Columbus, Ohio. Prescription service. Serial No. 625,053, Oct. 28. Class 106.
White Laboratories, Inc., Kenilworth, N. J. Dermatological preparation. Serial No. 625,839, Oct. 28. Class 18.
White Laboratories, Inc., Kenilworth, N. J. Oro-mucosal analgesic preparation. Serial No. 625,840, Oct. 28. Class 18.
Whittemore Bros. Corp., Cambridge, Mass. Preparations for polishing shoes and leathers, burnishing ink, etc. Serial No. 546,141, Oct. 28. Class 4.
Williams Manufacturing Company, Chicago, Ill. Coin-controlled electrically operated automatic phonograph apparatus. Serial No. 608,776, Oct. 28. Class 21.
Wood's, T. B., Sons Company, Chambersburg, Pa. Power transmission machinery. Serial No. 610,349, Oct. 28. Class 23.
Wyeth Incorporated, Philadelphia, Pa. Dibenzylethylenediamine dipenicillin. Serial No. 622,473, Oct. 28. Class 18.
Wyeth Incorporated, Philadelphia, Pa. Low sodium, low fat food, for use as a dietary supplement. Serial No. 623,523, Oct. 28. Class 18.
York, Louis B., doing business under the name of Admiral Fabrics Co., New York, N. Y. Plastic sun shades and visors. Serial No. 617,068, Oct. 28. Class 19.
Zerbst Pharmacal Company, Inc., St. Joseph, Mo. Preparation for the treatment of colds. Serial No. 621,930, Oct. 28. Class 18.
Ziff-Davis Publishing Company, Chicago, Ill. Magazine. Serial No. 628,317, Oct. 28. Class 38.
Zonolite Company, Chicago, Ill. Plaster and concrete aggregate. Serial No. 622,475, Oct. 28. Class 12.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Triple sulfonamide preparation. 565,944, Oct. 28; Serial No. 609,836, published July 22, 1952. Class 18.
Adler Silhouette Letter Co., Chicago, Ill. Detachable letter sign. 566,172, Oct. 28; Serial No. 607,570. Class 50.
Ag Service Co., Floyd, Iowa. Electrically operated moth exterminators. 566,159, Oct. 28; Serial No. 597,567. Class 21.
Aktien-Gesellschaft Vereinigte Berner & Zurcher Chocolade-Fabriken Lindt & Sprungli, Kilchberg, near Zurich, and Berne, Switzerland, to Lindt & Sprungli, Inc., New York, N. Y. Chocolate candies. 87,306, re-renewed July 9, 1952. O. G. Oct. 28. Class 46.
Albemarle Paper Manufacturing Company, The, Richmond, Va. Blotting paper. 298,874, renewed Nov. 8, 1952. O. G. Oct. 28. Class 37.
Algemene Kunstzijde Unie N. V., Arnhem, Netherlands. Cellulose esters and ethers and their salts, etc. 566,007. Oct. 28; Serial No. 616,581, published Aug. 5, 1952. Class 6.
Allen, T. V., Company, Los Angeles, Calif. Stationery. 566,034. Oct. 28; Serial No. 619,324, published May 20, 1952. Class 37.
Allied Chemical & Dye Corporation: *See*—
Mechling Brothers Chemical Company.
Almat Publishing Corporation, New York, N. Y. Books. 566,092, Oct. 28; Serial No. 622,703, published July 29, 1952. Class 38.
Alrose Chemical Company, Cranston, R. I. Cation exchange materials. 566,061, Oct. 28; Serial No. 621,096, published Aug. 5, 1952. Class 6.
Althena Company, Incorporated, The, Laurel, Miss. Cough syrup. 566,181, Oct. 28; Serial No. 624,441. Class 18.
American Air Filter Company, Inc., Louisville, Ky. Rolls of air filter paper. 565,962, Oct. 28; Serial No. 610,657, published May 20, 1952. Class 37.
American Brake Shoe Company: *See*—
American Brake Shoe & Foundry Company.
American Brake Shoe & Foundry Company, Mahwah, N. J., to American Brake Shoe Company, New York, N. Y. Castings. 87,141, re-renewed July 2, 1952. O. G. Oct. 28. Class 14.
American Cyanamid Company, New York, N. Y. Evacuants. 565,960, Oct. 28; Serial No. 610,355, published July 8, 1952. Class 18.
American Encaustic Til ng Company, Inc.: *See*—
American Encaustic Tiling Co. Ltd.
American Encaustic Tiling Co. Ltd., New York, N. Y., and Zanesville, Ohio, to American Encaustic Tiling Company, Inc., New York, N. Y., and Lansdale, Pa. Tiles. 86,681, re-renewed May 28, 1952. O. G. Oct. 28. Class 12.
American Encaustic Tiling Co. Ltd., New York, N. Y., and Zanesville, Ohio, to American Encaustic Tiling Company, Inc., New York, N. Y., and Lansdale, Pa. Tiles. 87,307, re-renewed July 9, 1952. O. G. Oct. 28. Class 12.
American Fabrics Company, The, Bridgeport, Conn. Laces, embroideries, and narrow woven fabrics. 565,896, Oct. 28; Serial No. 595,929, published June 24, 1952. Class 40.
American Law Book Company, The, Brooklyn, N. Y. Legal magazine. 566,051, Oct. 28; Serial No. 620,387, published Aug. 5, 1952. Class 38.
American Locker Company, Inc., Boston, Mass. Renting of parcel checking lockers. 566,136, Oct. 28; Serial No. 590,003, published Aug. 5, 1952. Class 105.
American Packing & Provision Co., Ogden, Utah, assignor to Swift & Company, Chicago, Ill. Sliced bacon, smoked bacon, smoked ham, etc. 565,828, Oct. 28; Serial No. 536,483, published July 22, 1952. Class 46.
American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls, Elmira, and Glendale, N. Y., by Moore Business Forms, Inc., Niagara Falls, N. Y. Sales-books. 86,689, May 28, 1912. Republished Oct. 28. Class 37.
American Slicing Machine Company, Chicago, Ill. Meat slicing machines. 566,046, Oct. 28; Serial No. 620,134, published June 24, 1952. Class 23.
American Stores Company, Philadelphia, Pa. Coffee and canned corn. 565,885, Oct. 28; Serial No. 589,698, published July 22, 1952. Class 46.
Anchor Sales Corp., Brooklyn, N. Y. Wood tables, chairs, cabinets and wood chests. 565,984, Oct. 28; Serial No. 612,987, published Aug. 5, 1952. Class 32.
Anderson, Belle, Chicago, Ill. Identification forms. 565,886, Oct. 28; Serial No. 590,250, published July 15, 1952. Class 37.
Andy Bros. Tire Shop, Washington, Pa. Anti-skid rubber tread for rubber tires. 566,002, Oct. 28; Serial No. 615,599, published Aug. 5, 1952. Class 35.
Apple Concentrates, Inc., West Concord, Mass. Apple juice. 565,940, Oct. 28; Serial No. 608,232, published July 22, 1952. Class 46.
Appliance Manufacturing Company, Alliance, Ohio. Home laundry appliances. 565,900, Oct. 28; Serial No. 597,485, published June 24, 1952. Class 24.
Artistic Beauty Products Company, Los Angeles, Calif. Neutralizing cream solution for use in connection with permanent waving of hair. 565,890, Oct. 28; Serial No. 593,854, published July 22, 1952. Class 51.
Artistic Foundations, Inc., New York, N. Y. Girdles. 566,178, Oct. 28; Serial No. 617,333. Class 39.
Assau, W. F., Canning Co., Baltimore, Md. Canned fruits and canned vegetables. 88,046, re-renewed Aug. 27, 1952. O. G. Oct. 28. Class 46.
Associated Concentrates, Inc., New York and Woodside, N. Y. Vitamin in soya lecithin base. 565,952, Oct. 28; Serial No. 608,736, published July 8, 1952. Class 18.
Attorney General of the United States, Vested in the: *See*—
Vereinigte Chemische Fabriken Kreidl, Heller & Co.
Aviation Developments Limited, London, England. Fastening devices. 566,010, Oct. 28; Serial No. 616,892, published Aug. 5, 1952. Class 13.
Ayrlyte Corporation, New York, N. Y. Insole tape. 565,850, Oct. 28; Serial No. 569,344, published July 15, 1952. Class 40.
Badger Paper Mills, Inc., Peshtigo, Wis. Printing and writing paper. 566,082, Oct. 28; Serial No. 622,100, published Aug. 5, 1952. Class 37.
Baird, Edgar W., Jr., assignor to Rakit Corporation, Inc., Philadelphia, Pa. Steel racks. 566,022, Oct. 28; Serial No. 617,905, published Aug. 5, 1952. Class 13.
Baldwin Packers, Ltd., Honolulu, Territory of Hawaii. Canned pineapple. 565,931, Oct. 28; Serial No. 606,998, published July 22, 1952. Class 46.

Bankers Box Company, Chicago, Ill. Permanent binders and string binders. 566,047, Oct. 28; Serial No. 620,136, published July 1, 1952. Class 37.
Banting, J. D., doing business as Cosmopolitan Cosmetics, Amsterdam, Netherlands. Nonelectric hair curlers. 565,928, Oct. 28; Serial No. 606,361, published July 1, 1952. Class 40.
Barton, Duer & Koch Paper Company, The, Baltimore, Md. Printing paper and correspondence envelopes. 566,041, Oct. 28; Serial No. 619,868, published July 8, 1952. Class 37.
Barton, Duer & Koch Paper Company, The, Baltimore, Md. Printing paper and correspondence envelopes. 566,059, Oct. 28; Serial No. 620,953, published July 1, 1952. Class 37.
Bates, C. J., & Sons, Chester, Conn. Crochet hooks and knitting needles. 565,934, Oct. 28; Serial No. 607,213, published May 27, 1952. Class 40.
Bauschard, Otto F., Erie, Pa. Accounting forms. 565,823, Oct. 28; Serial No. 522,582, published Aug. 12, 1952. Class 37.
Beatrice Foods Co.: *See*—
La Choy Food Products, Inc.
Bebon Corporation: *See*—
United Hosiery Mills Corporation.
Belvend Mfg. Co., Inc., Chicago, Ill. Ice cream bars. 565,993–4, Oct. 28; Serial Nos. 614,191–2, published July 22, 1952. Class 46.
Bernad Creations, Ltd., Mount Vernon, N. Y. Paper napkins. 566,008, Oct. 28; Serial No. 616,619, published July 8, 1952. Class 37.
Bevin Wilcox Line Company, The, East Hampton, Conn. Fishing lines. 565,857, Oct. 28; Serial No. 574,478, published Dec. 13, 1949. Class 22.
Bissell Varnish Company, The, Bridgeport, Conn. Oil paints and paint enamels. 444,729, Oct. 28; Serial No. 515,606, published June 21, 1949. Class 16.
Black, Joseph, & Sons Company, York, Pa. Stockings. 88,729, re-renewed Oct. 22, 1952. O. G. Oct. 28. Class 39.
Blair Corset Company, Inc., Chicago, Ill. Girdles, and panties. 566,076, Oct. 28; Serial No. 621,808, published Aug. 5, 1952. Class 39.
Blatz Brewing Company, Milwaukee, Wis. Beer. 565,877, Oct. 28; Serial No. 584,851, published July 15, 1952. Class 48.
Booth Fisheries Corporation, Chicago, Ill. Canned fish. 565,834, Oct. 28; Serial No. 550,015, published Jan. 15, 1952. Class 46.
Boyle-Midway Inc.: *See*—
Midway Chemical Company.
Bright, T. G. & Co, Limited, Township of Stamford, Ontario, Canada. Wines. 565,864, Oct. 28; Serial No. 576,621, published July 8, 1952. Class 47.
Broemmel Pharmaceuticals, San Francisco, Calif. Mosquito immunizing agent. 565,925, Oct. 28; Serial No. 605,715, published July 8, 1952. Class 18.
Brown & Bigelow, St. Paul, Minn. Memo pads, pencils, writing pens, etc. 565,878, Oct. 28; Serial No. 585,310, published July 22, 1952. Class 37.
Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes. 565,867, Oct. 28; Serial No. 580,399, published Aug. 5, 1952. Class 17.
Bulletin Company, Philadelphia, Pa. Newspaper columns and sections. 566,117, Oct. 28; Serial No. 624,327, published Aug. 12, 1952. Class 38.
Burdick Corporation, The, Milton, Wis. Venous occlusion apparatus. 566,171, Oct. 28; Serial No. 607,313. Class 44.
Calbest Engineering and Electronics Co., Los Angeles, Calif. Radio receiving sets and parts thereof. 423,524, Sept. 3, 1946. Republished Oct. 28. Class 21.
California Central Creameries, to Golden State Company, Ltd., San Francisco, Calif. Eggs. 88,840, renewed Oct. 29, 1952. O. G. Oct. 28. Class 46.
Catalina, Inc., Los Angeles, Calif. Swim suits, swim trunks, sweaters, etc. 566,155, Oct. 28; Serial No. 593,858. Class 39.
Central City Chemical Company, Chicago, Ill. Insecticides. 324,466, May 21, 1935. Republished Oct. 28. Class 6.
Chanel, Inc., New York, N. Y. Perfume. 299,640, renewed Dec. 13, 1952. O. G. Oct. 28. Class 51.
Ciba Limited, Basel, Switzerland. Synthetic resinous adhesives and cements. 566,014, Oct. 28; Serial No. 617,226, published Aug. 5, 1952. Class 5.
Clay Cough Drop Co.: *See*—
Haeseler, Loren M.
Clay Cough Drop Co., not inc.: *See*—
Haeseler, Loren M.
Cleveland Gypsum Company, The, Cleveland, Ohio. Mill mixed plasters or mortars. 565,845, Oct. 28; Serial No. 566,451, published July 22, 1952. Class 12.
Clinton Foods Inc.: *See*—
Private Brands, Inc.
Coast Fishing Co., Wilmington, Calif., to The Quaker Oats Company, Chicago, Ill. Canned tuna. 299,367, renewed Nov. 29, 1952. O. G. Oct. 28. Class 46.
Cody Sales Company, Chicago, Ill. Shotguns. 566,101, Oct. 28; Serial No. 622,990, published Aug. 5, 1952. Class 9.
Cohen, Jos. S., and Sons Co. Inc., New York, N. Y. Women's and children's dresses, suits, pajamas, etc. 299,025, renewed Nov. 15, 1952. O. G. Oct. 28. Class 39.
Colin Pharmacal Co., Inc., Long Island City, N. Y. Medicated ointment. 565,921, Oct. 28; Serial No. 604,074, published July 5, 1952. Class 18.
Collings, Thomas J., New York, N. Y. Electric lamps. 565,932, Oct. 28; Serial No. 607,121, published July 29, 1952. Class 21.
Columbia Breweries, Inc., Tacoma, Wash. Beer. 565,832, Oct. 28; Serial No. 542,288, published July 15, 1952. Class 48.
Columbia River Packers Association, Inc., Astoria, Oreg. Canned salmon, canned tuna fish, and canned crabmeat. 565,953–4, Oct. 28; Serial Nos. 608,782–3, published July 29, 1952. Class 46.
Columbia River Packers Association, Inc., Astoria, Oreg. Canned salmon, canned tuna fish and canned crabmeat. 565,974, Oct. 28; Serial No. 611,407, published July 22, 1952. Class 46.
Columbus Coated Fabrics Corporation, Columbus, Ohio. Shade cloth. 294,660, renewed June 7, 1952. O. G. Oct. 28. Class 42.
Commercial Controls Corporation, Rochester, N. Y. Perforatable paper tapes and copy paper. 565,893, Oct. 28; Serial No. 594,951, published July 29, 1952. Class 37.
Commercial Solvents Corporation, New York, N. Y. Acetic acid, acetone, 2-amino-1-butanol, etc. 566,011, Oct. 28; Serial No. 616,897, published Aug. 5, 1952. Class 6.
Commercial Solvents Corporation, New York, N. Y. Dried distillers grains. 566,071, Oct. 28; Serial No. 621,618, published July 22, 1952. Class 46.
Copy Paper Sales & Service Agency, Inc., assignee: *See*—
Copy Papers, Inc.
Copy Papers, Inc., assignor to Copy Paper Sales & Service Agency, Inc., Chicago, Ill. Correction fluids. 444,728, Oct. 28; Serial No. 487,887, published July 15, 1952. Class 37.
Cosmocord Limited, Enfield, England. Electrical sound reproducing, recording, and amplifying apparatus. 565,912, Oct. 28; Serial No. 601,097, published Aug. 5, 1952. Class 21.
Cosmopolitan Cosmetics: *See*—
Banting, J. D.
Crown Zellerbach Corporation, also doing business as National Paper Products, Sales Company, San Francisco, Calif. Paper towels and toilet tissue. 565,825, Oct. 28; Serial No. 527,134, published Jan. 15, 1952. Class 37.
Curtis Development & Mfg. Co., Milwaukee, Wis. Electrically lighted frames. 566,154, Oct. 28; Serial No. 593,401. Class 21.
Dacus Drug Company, Inc., Portageville, Mo. Liquid preparation for cold discomforts, etc. 565,927, Oct. 28; Serial No. 605,847, published July 8, 1952. Class 18.
Davidow, Inc. Sportswear, New York, N. Y. Ladies' and misses' dresses, dress ensembles, suits, etc. 566,078, Oct. 28; Serial No. 621,959, published Aug. 5, 1952. Class 39.
Designed Products, Inc., Oak Park, Ill. Pictures of biblical characters and scenes. 565,963, Oct. 28; Serial No. 610,783, published Aug. 12, 1952. Class 38.
Detroit Bond and Reference Co.: *See*—
Hart, Phyllis F.
Dexter Laboratories, New York, N. Y. Pharmaceutical preparation. 565,879, Oct. 28; Serial No. 585,372, published July 8, 1952. Class 18.
Diamond Expansion Bolt Co., to Diamond Expansion Bolt Co., Inc., Garwood, N. J. Machine bolt expansion shields, expansion bolts, expansion shield, etc. 298,252, renewed Oct. 18, 1952. O. G. Oct. 28. Class 13.
Diamond Expansion Bolt Co., Inc.: *See*—
Diamond Expansion Bolt Co.
Di-De-O Co.: *See*—
Vande Mark, Walter.
Dixie Mills Company: *See*—
National Warehouse and Storage Company.
Dodge & Olcott, Inc., New York, N. Y. Vanilla beans and tonka beans used for food flavoring purposes; vanilla flavors, etc. 565,985, Oct. 28; Serial No. 613,057, published July 22, 1952. Class 46.
Doll Shop, The, Bay City, Mich. Dolls. 566,070, Oct. 28; Serial No. 621,549, published July 29, 1952. Class 22.
Doll, Wesley E., Nashville, Tenn. Picture-frame-mounted jig-saw cut-outs. 565,999, Oct. 28; Serial No. 614,603, published July 29, 1952. Class 38.
Dormeyer Corporation, Chicago, Ill. Electric food mixers, juicers, grinders, etc. 565,862, Oct. 28; Serial No. 576,317, published Oct. 24, 1950. Class 21.
Dowelcraft Company, Grand Rapids, Mich. Packages of wooden dowels. 565,881, Oct. 28; Serial No. 587,855, published July 29, 1952. Class 12.
Draper Corporation, Portland, Maine and Hopedale, Mass., to Draper Corporation, Hopedale, Mass. Loom-temples and parts thereof and for parts of looms. 298,948, renewed Nov. 15, 1952. O. G. Oct. 28. Class 23.
Duff Gordon & Co.: *See*—
Shaw, Alex D., & Co.
Dunton, M. W., Company, The, to The M. W. Dunton Company, Providence, R. I. Friction-tape. 86,980, renewed June 18, 1952. O. G. Oct. 28. Class 5.

Dunton, M. W., Company, The, to The M. W. Dunton Company, Providence, R. I. Friction-tape. 87,436, renewed July 16, 1952. O. G. Oct. 28. Class 5.

Dutton, Andrew, Company, Boston, Mass. Venetian blinds. 566,077, Oct. 28; Serial No. 621,875, published July 29, 1952. Class 32.

Duvernoy & Sons, Inc.: *See*—
Walsh, Deleon.

Eastern Venetian Blind Company, The, Baltimore, Md. Drapery rods and carriers. 566,118, Oct. 28; Serial No. 624,334, published Aug. 12, 1952. Class 13.

Eastman Kodak Company, to Eastman Kodak Company, Rochester, N. Y. Thin, transparent sheeting. 293,954, May 10, 1932. New certificate. O. G. Oct. 28. Class 50.

Eddy, E. B., Company, The, Hull, Quebec, Canada. Toilet paper. 565,836, Oct. 28; Serial No. 558,113, published Aug. 5, 1952. Class 37.

Ekco Products Company, Chicago, Ill. Set of knives and holder therefor. 565,865, Oct. 28; Serial No. 578,200, published June 17, 1952. Class 23.

Ekholm, Victor E., doing business as Man-Tan Chemical Company, Dallas, Tex. Tannic acid compounds and mud conditioner. 566,029, Oct. 28; Serial No. 618,539, published Aug. 5, 1952. Class 6.

Electric Steam Radiator Corporation, Paris, Ky. Electrically operated combination baby bottle heater and cooking appliance. 565,846, Oct. 28; Serial No. 566,462, published Aug. 5, 1952. Class 21.

Elgin Giant Watch Case Co., to Illinois Watch Case Co., Elgin, Ill. Watchcases. 88,475, re-renewed Sept. 24, 1952. O. G. Oct. 28. Class 27.

Encore, Inc., Los Angeles and Hollywood, Calif. Photographic services. 566,139, Oct. 28; Serial No. 599,622, published Aug. 5, 1952. Class 106.

Estey Piano Corp., Bluffton, Ind. Pianos. 566,131, Oct. 28; Serial No. 627,259, published Aug. 5, 1952. Class 36.

Estey Piano Corp., Bluffton, Ind. Pianos. 566,132, Oct. 28; Serial No. 628,351, published Aug. 5, 1952. Class 36.

Fairchild Aerial Surveys, Inc., Los Angeles, Calif. Maps and photographs. 566,026, Oct. 28; Serial No. 618,292, published Aug. 12, 1952. Class 38.

Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Internal combustion engines. 565,981, Oct. 28; Serial No. 612,451, published July 8, 1952. Class 23.

Fales, W. H., Company, The, Brooklyn, N. Y. Calcium base, pulp type, metallic soap. 566,057–8, Oct. 28; Serial Nos. 620,913–14, published Aug. 5, 1952. Class 6.

Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Chemical products. 566,043, Oct. 28; Serial No. 619,966, published Aug. 5, 1952. Class 6.

Farm Crest Bakeries, Incorporated, Wilmington, Del., and Detroit, Mich., to Farm Crest Bakeries, Incorporated, Detroit, Mich. Bread, rolls, sweet yeast rolls, etc. 297,972, renewed Oct. 4, 1952. O. G. Oct. 28. Class 46.

Federal Mill, Inc., Lockport, N. Y., to International Milling Company, Minneapolis, Minn. Wheat flour. 296,439, renewed Aug. 9, 1952. O. G. Oct. 28. Class 46.

Federal Milling Company, Lockport, N. Y., to International Milling Company, Minneapolis, Minn. Wheat-flour. 87,615, re-renewed July 30, 1952. O. G. Oct. 28. Class 46.

Federated Department Stores, Inc., Cincinnati, Ohio. Umbrellas. 566,120, Oct. 28; Serial No. 624,405, published July 8, 1952. Class 41.

Fellows Medical Manufacturing Company, Inc., New York, N. Y. Chloral hydrate capsules. 566,049, Oct. 28; Serial No. 620,203, published July 22, 1952. Class 18.

Ferber Corporation, Englewood, N. J. Ball point pens. 566,025, Oct. 28; Serial No. 618,208, published May 20, 1952. Class 37.

Field Enterprises, Inc., Chicago, Ill. Series of cartoons. 566,032, Oct. 28; Serial No. 619,077, published July 29, 1952. Class 38.

Finch, Joseph S., and Company: *See*—
Records & Goldsborough, Incorporated.

Finer Made Pickle Company: *See*—
Neiman, David.

First National Bank in St. Louis, St. Louis, Mo. General banking services. 566,140, Oct. 28; Serial No. 599,867, published Aug. 5, 1952. Class 102.

Fisk Rubber Company, Chicopee Falls and Springfield, Mass., to United States Rubber Company, New York, N. Y. Pneumatic tires. 38,700, re-renewed July 29, 1952. O. G. Oct. 28. Class 35.

Flax, Nat. S., New York, N. Y. Fabric medallions. 566,054, Oct. 28; Serial No. 620,498, published July 1, 1952. Class 40.

Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 565,946, Oct. 28; Serial No. 609,442, published July 22, 1952. Class 46.

Flex-O-Lators, Inc., Carthage, Mo. Metal spring-wire pads. 565,868, Oct. 28; Serial No. 580,780, published Aug. 5, 1952. Class 32.

Flood, John E., doing business as Flood Pipe & Tobacco Company, Oklahoma City, Okla. Smoking tobacco, cigarettes, cigars, etc. 566,060, Oct. 28; Serial No. 620,962, published Aug. 5, 1952. Class 17.

Flood Pipe & Tobacco Company: *See*—
Flood, John E.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 296,655, renewed Aug. 16, 1952. O. G. Oct. 28. Class 42.

Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.

Forsyth, John, and Company: *See*—
Forsyth, John W.

Forsyth, John W., doing business under the firm name and style of John Forsyth and Company, Glasgow, Scotland. Umbrellas, parasols, and parts of and fittings, for all such goods. 565,939, Oct. 28; Serial No. 608,154, published June 24, 1952. Class 41.

Foster, Benjamin, Company, Philadelphia, Pa. Adhesives. 566,096, Oct. 28; Serial No. 622,888, published Aug. 5, 1952. Class 5.

Frankle, Harry R., doing business as Midwest Air Conditioning Company, Des Moines, Iowa. Domestic air conditioning units. 566,157, Oct. 28; Serial No. 596,570. Class 34.

Frawley Corporation, San Francisco, Calif. Ball-point pens. 565,961, Oct. 28; Serial No. 610,495, published Dec. 11, 1951. Class 37.

Frederick Post Company, The, Chicago, Ill. Drawing paper and bristol board; tracing cloths, etc. 565,949, Oct. 28; Serial No. 609,174, published Aug. 5, 1952. Class 37.

French-American Pharmaceuticals Co., Inc., The, New York, N. Y. Ampules. 566,040, Oct. 28; Serial No. 619,826, published July 22, 1952. Class 18.

French Industries, Inc., San Francisco, Calif. Fishing reels and fishing lines. 566,062, Oct. 28; Serial No. 621,140, published July 29, 1952. Class 22.

Freshmaster Corporation, New York, N. Y. Periodical publication. 566,079, Oct. 28; Serial No. 621,961, published Aug. 5, 1952. Class 38.

Fruto Beverage Company, Rockford, Ill. Non-alcoholic maltless carbonated soft drinks. 566,163, Oct. 28; Serial No. 603,480. Class 45.

Fyr-Fyter Company, The, assignee: *See*—
Wooster Brass Company, The.

Gaetz, Theodore E., doing business under the name and style of L. C. Q. Drug Products Company, Worcester, Mass. Antacid powder. 565,923, Oct. 28; Serial No. 605,209, published July 8, 1952. Class 18.

Gaines Animal Foods Limited, Ruislip, England. Cat food. 565,895, Oct. 28; Serial No. 595,599, published July 29, 1952. Class 46.

Gardner, Howard A., doing business as Sales-Aide Service, Chicago, Ill. General advertising and sales promotional services. 566,141, Oct. 28; Serial No. 603,155, published Aug. 5, 1952. Class 101.

General Electric Company, assignee: *See*—
Monowatt Incorporated.

General Grocer Company, St. Louis, Mo. Canned fruits; canned berries; canned vegetables, etc. 565,830, Oct. 28; Serial No. 538,271, published July 29, 1952. Class 46.

General Paint Corporation, San Francisco, Calif. Graphite base paint. 565,929, Oct. 28; Serial No. 606,375, published July 8, 1952. Class 16.

Gerberich-Payne Shoe Co., Mount Joy, Pa. Boys' shoes. 566,114, Oct. 28; Serial No. 611,837. Class 39.

Goldberg, Bowen & Co., to L. D. McLean Co., San Francisco, Calif. California wine. 87,204, re-renewed July 2, 1952. O. G. Oct. 28. Class 47.

Golden State Company, Ltd.: *See*—
California Central Creameries.

Goldstein, Albert M., Inc., New York, N. Y. Sewing needles. 566,003, Oct. 28; Serial No. 615,699, published June 3, 1952. Class 40.

Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Combs. 566,056, Oct. 28; Serial No. 620,669, published June 24, 1952. Class 40.

Goodman, H., & Sons, Inc., Jersey City, N. J., and New York, N. Y. Non-electrical hair curlers and barrettes. 566,100, Oct. 28; Serial No. 622,933, published Aug. 5, 1952. Class 40.

Gorham Manufacturing Company, Providence, R. I. Smokers' articles. 566,097, Oct. 28; Serial No. 622,891, published July 29, 1952. Class 8.

Gornston, David, New York, N. Y. Musical publications. 565,983, Oct. 28; Serial No. 612,688, published July 29, 1952. Class 38.

Gotham Lighting Corporation, Long Island City, N. Y. Electric lighting fixtures. 565,924, Oct. 28; Serial No. 605,477, published Aug. 5, 1952. Class 21.

Grayburne Corporation, New York, N. Y. Radio antennas. 565,996, Oct. 28; Serial No. 614,502, published July 29, 1952. Class 21.

Grayburne Corporation, New York, N. Y. Radio antennas. 565,997, Oct. 28; Serial No. 614,503, published July 22, 1952. Class 21.

Gregory Fount-O-Ink Company, Los Angeles, Calif., assignee of Gregory Fount-O-Ink Company. Desk sets. 565,851, Oct. 28; Serial No. 570,027, published May 27, 1952. Class 37.

Griggs, Cooper & Company: *See*—
Sanitary Food Manufacturing Company.

Grosche, Frederick W., Baltimore, Md. Storage batteries. 297,087, renewed Aug. 30, 1952. O. G. Oct. 28. Class 21.

Groveton Papers Company, Groveton, N. H. Bond paper. 565,844, Oct. 28; Serial No. 565,619, published Jan. 10, 1950. Class 37.

Gulf States Sales Corporation, Birmingham, Ala. Lead pencils. 566,012, Oct. 28; Serial No. 616,955, published July 1, 1952. Class 37.

Guth, Edwin F., Company, The, St. Louis, Mo. Electric lighting fixtures. 565,824, Oct. 28; Serial No. 526,981, published Aug. 10, 1948. Class 21.

H. D. T. Company Factors, Inc., White Plains, N. Y. Automobile cleaning and polishing service. 566,138, Oct. 28; Serial No. 596,915, published Aug. 5, 1952. Class 103.

Haeseler, Loren M., doing business as Clay Cough Drop Co., to M. Zeman, doing business as Clay Cough Drop Co., not inc., Chicago, Ill. Syrup for coughs, cough drops, cold capsules, etc. 298,742, renewed Nov. 1, 1952. O. G. Oct. 28. Class 18.

Hall Publishing Company, New York, N. Y. Periodical trade publication. 566,125, Oct. 28; Serial No. 625,318, published Aug. 12, 1952. Class 38.

Hamilton Glass Company, Inc., Chicago, Ill. Hand mirrors, wall mirrors, and mirrors used in connection with home furniture. 565,910, Oct. 28; Serial No. 600,131, published Aug. 5, 1952. Class 32.

Harris & Tyler Limited, London, England. Seats, chairs, settees, and structural parts thereof. 565,976, Oct. 28; Serial No. 611,607, published Aug. 5, 1952. Class 32.

Hart, Phyllis F., doing business as Detroit Bond and Reference Co., Detroit, Mich. Employment agency services. 566,142, Oct. 28; Serial No. 611,843, published Aug. 5, 1952. Class 101.

Hart Schaffner & Marx, Chicago, Ill. Men's suits. 565,833, Oct. 28; Serial No. 548,588, published Aug. 2, 1949. Class 39.

Hart Vance Company, The, St. Louis, Mo. Note paper, writing paper, and wrapping paper. 565,973, Oct. 28; Serial No. 611,206, published July 15, 1952. Class 37.

Haxton Foods, Inc., Oakfield, N. Y. Canned, fresh, and fresh frozen fruits and vegetables, canned and bottled tomato juice, etc. 566,055, Oct. 28; Serial No. 620,505, published Aug. 5, 1952. Class 46.

Heatbath Corporation, Springfield, Mass. Chemicals. 566,020, Oct. 28; Serial No. 617,796, published July 29, 1952. Class 6.

Helical Tube Corporation, East Orange, N. J. Metal tubes and tubing. 566,017, Oct. 28; Serial No. 617,399, published Aug. 5, 1952. Class 13.

Hellesens Enke & V. Ludvigsen A/S, Copenhagen, Denmark. Electrical batteries. 565,882, Oct. 28; Serial No. 588,135, published July 15, 1952. Class 21.

Helwith, Alfred L., to United Merchants and Manufacturers, Inc., New York, N. Y. Cotton, rayon and silk fabrics. 345,836, May 11, 1937. New certificate. O. G. Oct. 28. Class 42.

Heyden Chemical Corporation, New York, N. Y. Paraformaldehyde. 565,908, Oct. 28; Serial No. 599,947, published Aug. 5, 1952. Class 6.

Heyden Chemical Corporation, New York, N. Y. Sodium salicylate. 565,909, Oct. 28; Serial No. 599,948, published Aug. 5, 1952. Class 6.

Heyden Chemical Corporation, New York, N. Y. Solutions of formaldehyde and butyl alcohol. 565,936, Oct. 28; Serial No. 607,629, published July 8, 1952. Class 6.

Hill, H. N., and Company: *See*—
Hill, Ida.

Hill, Harold N.: *See*—
Hill, Ida.

Hill, Ida, Philadelphia, Pa., executrix of the estate of H. N. Hill, deceased, doing business as H. N. Hill and Company. Strip glue. 566,098, Oct. 28; Serial No. 622,896, published Aug. 5, 1952. Class 5.

Hinks Manufacturing Co., Fort Dodge, Iowa. Artificial fishing lures. 566,069, Oct. 28; Serial No. 621,404, published July 29, 1952. Class 22.

Holland-Rantos Company, Inc., New York, N. Y. Antiseptic solution. 566,093, Oct. 28; Serial No. 622,744, published July 22, 1952. Class 18.

Holm, Aage E., doing business as Holm & Rahr, Copenhagen, Denmark. Liqueurs, brandy, alcoholic cocktails and alcoholic aperitifs. 566,165, Oct. 28; Serial No. 603,980. Class 49.

Holm & Rahr: *See*—
Holm, Aage E.

Home Comfort Mfg. Co., East Peoria, Ill. Louver type ventilators. 566,161, Oct. 28; Serial No. 602,807. Class 34.

Homestead Valve Manufacturing Company, Coraopolis, Pa. Spray mixtures. 566,005, Oct. 28; Serial No. 616,377, published Aug. 5, 1952. Class 6.

Honeoye Falls Cream Products Co., Inc., Honeoye Falls, N. Y. Butter, cottage cheese, ice cream mix, custard mix, etc. 565,938, Oct. 28; Serial No. 607,817, published July 29, 1952. Class 46.

Hook-King Company, Chicago and Glencoe, Ill. Garment fasteners. 566,024, Oct. 28; Serial No. 617,962, published Aug. 5, 1952. Class 40.

Hoosierland Orchards Co.: *See*—
Madigan, Paul J.

Hoover Company, The, North Canton, Ohio. Dust filtering and collecting bags. 298,728, renewed Nov. 1, 1952. O. G. Oct. 28. Class 31.

Hotpoint Inc., Chicago, Ill. Magazine. 566,119, Oct. 28; Serial No. 624,337, published Aug. 5, 1952. Class 38.

Howard Products Incorporated, Worcester, Mass. Traction devices. 566,110, Oct. 28; Serial No. 623,888, published Aug. 5, 1952. Class 13.

Hubbell, Harvey, Incorporated, Bridgeport, Conn. Electrical wiring apparatus. 565,872, Oct. 28; Serial No. 581,484, published Aug. 5, 1952. Class 21.

Hubbs Corporation, Baltimore, Md. Paper headrest covers. 565,998, Oct. 28; Serial No. 614,506, published July 8, 1952. Class 37.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand operated compression sprayers. 565,915, Oct. 28; Serial No. 601,626, published July 22, 1952. Class 23.

I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breakers. 565,852, Oct. 28; Serial No. 571,972, published Mar. 6, 1951. Class 21.

Ideal Publishing Corporation, New York, N. Y. Periodical. 566,023, Oct. 28; Serial No. 617,917, published July 29, 1952. Class 38.

Illinois Watch Case Co.: *See*—
Elgin Giant Watch Case Co.
Rockford Watch Co. Ltd., The.

Imperial Chemical Industries Limited, London and Millbank, London, England. Chemical substances. 566,031, Oct. 28; Serial No. 618,796, published Aug. 5, 1952. Class 6.

Imperial Lamp and Shade Co., Philadelphia, Pa. Electrically operated floor lamp. 565,888, Oct. 28; Serial No. 591,930, published July 15, 1952. Class 21.

Independent Nail and Packing Company, The, Bridgewater, Mass. Nails. 566,103, Oct. 28; Serial No. 623,192, published Aug. 12, 1952. Class 13.

Independent Nail and Packing Company, The, Bridgewater, Mass. Nails. 566,106, Oct. 28; Serial No. 623,306, published Aug. 12, 1952. Class 13.

International Milling Company: *See*—
Federal Mill, Inc.
Federal Milling Company.
New Prague Flouring Mill Company.

International Products Corporation, New York, N. Y. Canned corned beef. 565,911, Oct. 28; Serial No. 601,050, published July 22, 1952. Class 46.

International Silver Company, to The International Silver Company, Meriden, Conn. Prize cups, symbolic figures, and trophies. 296,358, renewed Aug. 2, 1952. O. G. Oct. 28. Class 28.

International Silver Company, The: *See*—
International Silver Company.

Interseas Electronic Co., Inc., New York, N. Y. Radio and television receivers. 565,975, Oct. 28; Serial No. 611,428, published Aug. 5, 1952. Class 21.

Irvington Varnish & Insulator Company, Irvington, N. J. Moistureproof and solvent resistant bottle-cap liner material. 565,855, Oct. 28; Serial No. 573,489, published July 1, 1952. Class 37.

Jackson and Church Company, Saginaw, Mich. Wood, coal, and oil burning furnaces. 566,143, Oct. 28; Serial No. 573,185. Class 34.

Johnson, Eula M., Philadelphia, Pa. Hair ointment. 565,917, Oct. 28; Serial No. 602,404, published July 22, 1952. Class 18.

Johnson, S. C., & Son, to S. C. Johnson & Son, Inc., Racine, Wis. Paint enamels and undercoats. 298,966, renewed Nov. 15, 1952. O. G. Oct. 28. Class 16.

Johnson, S. C., & Son, Inc.: *See*—
Johnson, S. C., & Son.

Kahn, Julian S., doing business as "Wink" Needle Threader Company, Brooklyn, N. Y. Needle threaders. 566,072, Oct. 28; Serial No. 621,670, published June 24, 1952. Class 40.

Kalamazoo Vegetable Parchment Co., Parchment, Mich. Self-sealing waxed paper. 565,840, Oct. 28; Serial No. 562,201, published May 27, 1952. Class 37.

Kaman Aircraft Corporation, The, Windsor Locks, Conn. Periodical publication. 566,080, Oct. 28; Serial No. 621,968, published July 29, 1952. Class 38.

Kardigan Company, Summit, Ill. Board games. 565,918, Oct. 28; Serial No. 602,955, published July 29, 1952. Class 22.

Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Chemicals. 565,876, Oct. 28; Serial No. 584,815, published July 22, 1952. Class 6.

Kenyon, Donald D.: *See*—
Kenyon, Thomas N.

Kenyon, Thomas N., to Donald D. Kenyon, doing business as Kondon Manufacturing Company, Minneapolis, Minn. Remedies for catarrh, hay-fever, cold in the head, etc. 38,348, re-renewed May 27, 1952. O. G. Oct. 28. Class 18.

Kerk, Bernhard, trading as Het Goolsche Schrijfmachinehuis & Handelsonderneming "Beka," Hilversum, Netherlands. Typewriters. 566,042, Oct. 28; Serial No. 619,882, published July 22, 1952. Class 23.

Keuffel & Esser Company, Hoboken, N. J. Drawing and tracing papers. 565,926, Oct. 28; Serial No. 605,800, published July 22, 1952. Class 37.

Kinetic Novelty Co., Inc., New York, N. Y. Rotary card-index files. 566,015, Oct. 28; Serial No. 617,254, published Aug. 5, 1952. Class 37.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 565,966, Oct. 28; Serial No. 611,057, published July 29, 1952. Class 40.

Kleinert, I. B., Rubber Company, New York, N. Y. Waist band devices. 565,967, Oct. 28; Serial No. 611,060, published June 24, 1952. Class 40.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 565,968–70, Oct. 28; Serial No. 611,061–3, published July 29, 1952. Class 40.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 565,978, Oct. 28; Serial No. 612,051, published June 24, 1952. Class 40.

Knopf, Artie W., New York, N. Y. Dental appliances. 566,179, Oct. 28; Serial No. 619,626. Class 44.

Kohan, M. L., Inc., New York, N. Y. Ladies', misses' and children's tights, leotards, bathing suits, etc. 566,180, Oct. 28; Serial No. 623,196. Class 39.

Koh-I-Noor Bilovec, Národní Podnik, Bilovec, Czechoslovakia. Closures and fasteners for wearing apparel, shoe rings, etc. 566,099, Oct. 28; Serial No. 622,898, published July 1, 1952. Class 40.

Kondon Manufacturing Company: *See*—
Kenyon, Thomas N.

Krischer Metal Products Co., Brooklyn, N. Y. Hammered aluminum ware. 566,164, Oct. 28; Serial No. 603,798. Class 13.

Kroehler Mfg. Co., Naperville, Ill. Upholstered furniture, bedroom furniture, cocktail tables, etc. 565,922, Oct. 28; Serial No. 604,206, published Aug. 5 1952. Class 32.

Kroehler Mfg. Co., Naperville, Ill. Upholstered chairs and davenports. 566,087, Oct. 28; Serial No. 622,547, published Aug. 5, 1952. Class 32.

Krug, Charles, Winery: *See*—
Mondavi, C., & Sons.

Kunkelmann & Cie. Societe Anonyme, to Societe a Responsabilite Limitee Kunkelmann & Cie, Reims, France. Champagne. 293,171, renewed Apr. 12, 1952. O. G. Oct. 28. Class 47.

L. C. Q. Drug Products Company: *See*—
Gaetz, Theodore E.

Laboratory Equipment Corporation, St. Joseph, Mich. Door latches and handles. 566,104, Oct. 28; Serial No. 623,197, published Aug. 12, 1952. Class 13.

La Choy Food Products, Inc., Detroit, Mich., to Beatrice Foods Co., Chicago, Ill. Canned corn mush and canned chicken a la king. 296,004, renewed July 19, 1952. O. G. Oct. 28. Class 46.

La Marca, Matthew, Brooklyn, N. Y. Grip clamp. 566,111, Oct. 28; Serial No. 624,035, published Aug. 12, 1952. Class 13.

Lancaster Engineering Corporation, Lancaster, Pa. Machines for grinding and mixing cattle feed, and disc harrows. 566,168, Oct. 28; Serial No. 606,709. Class 23.

Lane Paper Co., Inc., Jersey City, N. J. Jacquard paper board. 565,829, Oct. 28; Serial No. 538,012, published July 1, 1952. Class 37.

Langendorf United Bakeries, Inc., San Francisco, Calif. Crackers. 566,167; Oct. 28; Serial No. 606,383. Class 46.

Laurel Lamp Manufacturing Co., Inc., Newark, N. J. Electrical apparatus. 566,033, Oct. 28; Serial No. 619,163, published Aug. 5, 1952. Class 21.

Laurel Lamp Manufacturing Co., Inc., Newark, N. J. Electrical apparatus. 566,182, Oct. 28; Serial No. 624,839. Class 21.

Lear, Incorporated, Grand Rapids, Mich. Power-driven switch mechanism. 566,006, Oct. 28; Serial No. 616,379, published July 8, 1952. Class 21.

Lectrolite Corporation, Defiance, Ohio. Box wrenches, combination box and open end wrenches, etc. 565,980, Oct. 28; Serial No. 612,403, published June 24, 1952. Class 23.

Leggett & Platt, Inc., Carthage, Mo., Louisville and Winchester, Ky., and Dallas Tex. Bed springs. 565,838, Oct. 28; Serial No. 560,561, published Aug. 5, 1952. Class 32.

Lewel Manufacturing Co., Inc., New York, N. Y. Girdles. 566,083, Oct. 28; Serial No. 622,339, published Aug. 5, 1952. Class 39.

Lewis, Mary E., Brooklyn, N. Y. Display stand for displaying dolls. 566,088, Oct. 28; Serial No. 622,602, published Aug. 5, 1952. Class 32.

Liggett & Myers Tobacco Company, New York, N. Y. Cigarette paper. 299,361, renewed Nov. 29, 1952. O. G. Oct. 28. Class 8.

Lindeteves Inc., New York, N. Y. Portable electric drills and portable electric drill stands, etc. 566,018, Oct. 28; Serial No. 617,507, published July 29, 1952. Class 21.

Lindt & Sprungli, Inc.: *See*—
Aktien-Gesellschaft Vereinigte Berner & Zurcher Chocolade-Fabriken Lindt & Sprungli.

Little Tavern Shops, Inc., Washington, D. C., and Baltimore, Md. Restaurant services. 566,135, Oct. 28; Serial No. 586,925, published Aug. 5, 1952. Class 100.

Loroco Industries, Inc., Reading, Ohio. Combination shirt board and collar support fabricated from paper. 566,084, Oct. 28; Serial No. 622,341, published July 8, 1952. Class 37.

Lowe, Birdell B., Richmond, Ind. Electrically heated grills. 565,919, Oct. 28; Serial No. 603,693, published July 29, 1952. Class 21.

Lunkenheimer Company, The, Cincinnati, Ohio. Pressure-regulators, water-columns, cocks, etc. 89,279, re-renewed Dec. 3, 1952. O. G. Oct. 28. Class 13.

Lustur-Seal Corporation, Jackson, Mich. Automobile polish. 565,847, Oct. 28; Serial No. 568,066, published July 8, 1952. Class 4.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Dehydrated and sweetened milk whipping preparation. 565,986, Oct. 28; Serial No. 613,227, published July 22, 1952. Class 46.

Madigan, Paul J., doing business as Hoosierland Orchards Co., Anderson, Ind. Fresh apples and peaches. 565,914, Oct. 28; Serial No. 601,551, published July 29, 1952. Class 46.

Magnetic Recording Industries, Ltd., New York, N. Y. Control for a magnetic sound recording and reproducing device. 565,894, Oct. 28; Serial No. 595,506, published July 22, 1952. Class 21.

Maguire, Walter, Company, Inc., New York, N. Y. Emery aggregate and crushed emery. 565,991, Oct. 28; Serial No. 613,879, published July 22, 1952. Class 12.

Maid-Rite Novelty Corp., New York, N. Y. Buckles. 566,121, Oct. 28; Serial No. 624,694, published Aug. 5, 1952. Class 40.

Mail Order Printing Company, Detroit, Mich. Letterheads, correspondence and mailing envelopes, etc. 565,905, Oct. 28; Serial No. 598,736, published July 8, 1952. Class 37.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Molded plastic electrical parts. 565,964, Oct. 28; Serial No. 610,917, published July 15, 1952. Class 21.

Mamaroneck Chemical Corporation, Mamaroneck, N. Y. Synthetic waxes. 565,907, Oct. 28; Serial No. 599,835, published Aug. 5, 1952. Class 6.

Man-Tan Chemical Company: *See*—
Ekholm, Victor E.

Mantell, Michael J., Los Angeles, Calif. Shoulder pads. 565,990, Oct. 28; Serial No. 613,719, published Nov. 27, 1951. Class 40.

Mars, Incorporated, to Mars, Incorporated, Chicago, Ill. Candy. 298,995, renewed Nov. 15, 1952. O. G. Oct. 28. Class 46.

Maryland Paper Box Company, Baltimore, Md. Cardboard and paper boxes, cases, trays, and shipping cartons. 566,151, Oct. 28; Serial No. 589,665. Class 2.

Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated. Sulphur. 565,860, Oct. 28; Serial No. 576,147, published July 29, 1952. Class 6.

Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated. Sulphur. 565,861, Oct. 28; Serial No. 576,150, published July 29, 1952. Class 6.

Mattatuck Manufacturing Company, The, Waterbury, Conn. Upholstery nails, jack chain, brass plumbers, etc. 297,334, renewed Sept. 13, 1952. O. G. Oct. 28. Class 13.

Max Manufacturing Company: *See*—
McEwan, James.

May, D. C., Co., The, Durham, N. C. Re-usable imitation chamois made of cellulose paper. 565,887, Oct. 28; Serial No. 590,606, published July 15, 1952. Class 37.

Mayers, L. & C., Co. Incorporated, New York, N. Y. Musical instruments. 566,130, Oct. 28; Serial No. 627,139, published Aug. 5, 1952. Class 36.

McDonald Products Corporation, Buffalo, N. Y. Smokers' accessories. 565,898, Oct. 28; Serial No. 596,611, published Aug. 5, 1952. Class 8.

McEwan, James, doing business under the style and name of Max Manufacturing Company, San Jose, Calif. Variable speed pulley drive units. 565,880, Oct. 28; Serial No. 585,595, published July 8, 1952. Class 23.

McFarlin, Robert W., doing business as Tap-A-Line, Milwaukee, Wis. Electrical outlets. 566,145, Oct. 28; Serial No. 577,279. Class 21.

McGee & Willig, St. Paul, Minn. Device for winding decorative ribbon into hanks. 566,000, Oct. 28; Serial No. 614,887, published June 24, 1952. Class 40.

McHutchison & Co., New York, N. Y. Paper covered wire plant ties. 566,149, Oct. 28; Serial No. 583,655. Class 7.

McLean, L. D., Co.: *See*—
Goldberg, Bowen & Co.

Meat Industry Suppliers, Inc., Chicago, Ill. Cures for meat products, emulsifiers for meat products, seasonings for meat products. 565,901, Oct. 28; Serial No. 597,769, published July 22, 1952. Class 46.

Mechling Brothers Chemical Company, Camden, N. J., to Allied Chemical & Dye Corporation, New York, N. Y. Insecticides. 298,606, renewed Nov. 1, 1952. O. G. Oct. 28. Class 6.

Merkin, M. J., Paint Co., Inc., New York, N. Y. Liquid for the fireproofing of various materials, such as textiles, wood, etc. 299,232, renewed Nov. 22, 1952. O. G. Oct. 28. Class 16.

Mica Insulator Co., New York, to Mica Insulator Co., Schenectady, N. Y. Electrical insulators. 39,410, re-renewed Dec. 2, 1952. O. G. Oct. 28. Class 21.

Mid-States Gummed Paper Co., Chicago, Ill. Gummed paper tape. 566,146, Oct. 28; Serial No. 578,274. Class 5.

Midway Chemical Company, Chicago, Ill., to Boyle-Midway Inc., New York, N. Y. Liquid insecticide. 296,204, renewed Aug. 2, 1952. O. G. Oct. 28. Class 6.

Midwest Air Conditioning Company: *See*—
Frankle, Harry R.

Milco, Copenhagen, Denmark. Cheese. 566,064, Oct. 28; Serial No. 621,279, published July 22, 1952. Class 46.

Miller Materials Company, Oakland, Calif. Stucco colors. 566,158, Oct. 28; Serial No. 597,283. Class 6.

Mohawk Motor Lines, Inc., Nashville, Tenn. Transporting packing-house products. 566,184, Oct. 28; Serial No. 583,161. Class 105.

Mohawk Motor Lines, Inc., Nashville, Tenn. Transporting packing-house products. 566,185, Oct. 28; Serial No. 583,163. Class 105.

Mondavi, C., & Sons, doing business as Charles Krug Winery, St. Helena, Calif. Periodical publication. 566,004, Oct. 28; Serial No. 615,990, published Aug. 12, 1952. Class 38.

Monowatt Incorporated, Providence, R. I., assignor to General Electric Company. Electrical wiring devices, electrical outlet boxes, hangers and fittings, etc. 565,869–70, Oct. 28; Serial Nos. 581,340–1, published July 29, 1952. Class 21.

Monsanto Chemical Company, St. Louis, Mo. Herbicides, insecticides and fungicides. 565,891, Oct. 28; Serial No. 594,392, published Aug. 5, 1952. Class 6.

Moore Business Forms, Inc., Niagara Falls, N. Y. Paper blank forms. 565,837, Oct. 28; Serial No. 560,281, published July 8, 1952. Class 37.

Moore Business Forms, Inc.: *See*—
American Sales Book Company, Limited.

Mosinee Paper Mills Company, Mosinee, Wis. Paper. 295,356, renewed June 28, 1952. O. G. Oct. 28. Class 37.

Movado Watch Agency, Inc., New York, N. Y. Watches. 434,338, Nov. 18, 1947. Republished Oct. 28. Class 27.

National Paper Products, Sales Company: *See*—
Crown Zellerbach Corporation.

National Warehouse and Storage Company, by Dixie Mills Company, East St. Louis, Ill. Horse feed. 86,437, May 7, 1912. Republished Oct. 28. Class 46.

Naugatuck Chemical Company, The, to United States Rubber Company, New York, N. Y. Chemicals. 296,353, renewed Aug. 2, 1952. O. G. Oct. 28. Class 6.

Naugatuck Chemical Company, The, to United States Rubber Company, New York, N. Y. Chemicals. 296,355, renewed Aug. 2, 1952. O. G. Oct. 28. Class 6.

Nazareth Cement Company, Nazareth, Pa. Portland cement. 297,513, renewed Sept. 20, 1952. O. G. Oct. 28. Class 12.

Neiman, David, doing business as Finer Made Pickle Company, Los Angeles, Calif. Pickles. 566,073–4, Oct. 28; Serial Nos. 621,677–8, published July 22, 1952. Class 46.

Neiman, A. L., Co., Chicago, Ill. Ladies' coats and suits. 566,156, Oct. 28; Serial No. 594,140. Class 39.

Newark Paraffine & Parchment Paper Co., Newark, N. J. Cellulose wrapping paper. 565,899, Oct. 28; Serial No. 597,159, published Nov. 13, 1951. Class 37.

New Prague Flouring Mill Company, New Prague, to International Milling Company, Minneapolis, Minn. Wheat-flour. 39,185, re-renewed Nov. 4, 1952. O. G. Oct. 28. Class 46.

New York World-Telegram Corporation: *See*—
Sun Printing & Publishing Association, The.

Norden Laboratories, Lincoln, Nebr. Hog cholera vaccine. 566,066, Oct. 28; Serial No. 621,373, published July 8, 1952. Class 18.

Northwest Chemical, Inc., Yakima, Wash. Weed-killer and insecticide. 565,956, Oct. 28; Serial No. 610,089, published Aug. 5, 1952. Class 6.

Northwest Plastics, Inc., St. Paul, Minn. Cups. 566,147, Oct. 28; Serial No. 580,025. Class 2.

Northwest Publications, Inc., St. Paul, Minn. Publication. 565,941, Oct. 28; Serial Nos. 608,284–5, published Aug. 12, 1952. Class 38.

Norwich Pharmacal Company, The, Norwich, N. Y. Tablets for the relief of pain. 565,955, Oct. 28, Serial No. 608,998, published July 8, 1952. Class 18.

Nox-Rust Chemical Corporation, Chicago, Ill. Wrapping, packaging and boxing paper. 565,988–9, Oct. 28; Serial Nos. 613,418–19, published Aug. 5, 1952. Class 37.

Oakley, Annie, Enterprises, assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif. Soaps. 565,977, Oct. 28; Serial No. 611,911, published Aug. 5, 1952. Class 52.

Oakley, Annie, Enterprises, Inc., assignee: *See*—
Oakley, Annie, Enterprises.

Ostefabriken Buko Aktieselskab, Vordingborg, Denmark. Cheese. 565,935, Oct. 28; Serial No. 607,514, published July 22, 1952. Class 46.

Pacific Undergarment Co., Inc., New York, N. Y. Ladies', misses', and children's textile underwear. 566,122, Oct. 28; Serial No. 624,700, published Aug. 5, 1952. Class 39.

Paristyle Beauty Salons, Inc.: *See*—
Paristyle Novelty Co. Inc.

Paristyle Novelty Co. Inc., to Paristyle Beauty Salons, Inc., New York, N. Y. Face creams, cleansing creams, massage creams, etc. 296,344, renewed Aug. 2, 1952. O. G. Oct. 28. Class 51.

Park, Philip R., Inc., San Pedro, Calif. Machine dehydrated macrocystis-pyrifera for use as a food. 565,853, Oct. 28; Serial No. 572,688, published Aug. 5, 1952. Class 46.

Parke, Davis & Company, Detroit, Mich. Preparation of penicillin and dihydrostreptomycin. 566,089, Oct. 28; Serial No. 622,618, published July 22, 1952. Class 18.

Paste Company of America, Philadelphia, Pa. Wall paper paste and wall size eliminators. 566,166, Oct. 28; Serial No. 604,660. Class 5.

Patent Button Company, The, Waterbury, Conn. Buttons. 566,052, Oct. 28; Serial No. 620,394, published June 24, 1952. Class 40.

Patent Button Company, The, Waterbury, Conn. Buttons. 566,053, Oct. 28; Serial No. 620,434, published June 24, 1952. Class 40.

Patterson-Sargent Company, The, Cleveland, Ohio. Dry and mixed paints, wall-finishes, stains, etc. 87,252, re-renewed July 2, 1952. O. G. Oct. 28. Class 16.

Peacock, R. J., Canning Co.: *See*—
Seacoast Canning Company.

Pepper, Jas. E., & Company, Lexington, Ky., by Schenley Industries, Inc., New York, N. Y. Whiskey. 321,234, Jan. 22, 1935. Republished Oct. 28. Class 49.

Pfeffer Milling Company, Lebanon, Ill. Self-rising wheat flour. 565,875, Oct. 28; Serial No. 584,508, published Sept. 18, 1951. Class 46.

Piedmont Mop Company, Incorporated, Charlotte, N. C. Mops and mop heads. 565,920, Oct. 28; Serial No. 604,029, published Aug. 12, 1952. Class 29.

Pierce, Ernest P., doing business as Zenith Tool Company, Cleveland, Ohio. Lathe tool holder. 566,063, Oct. 28; Serial No. 621,166, published July 29, 1952. Class 23.

Pillsbury Flour Mills Company, to Pillsbury Mills, Inc., Minneapolis, Minn. Flour. 296,111, renewed July 26, 1952. O. G. Oct. 28. Class 46.

Pillsbury Flour Mills Company, to Pillsbury Mills, Inc., Minneapolis, Minn. Flour. 296,115, renewed July 26, 1952. O. G. Oct. 28. Class 46.

Pillsbury Mills, Inc.: *See*—
Pillsbury Flour Mills Company.

Pioneer Rubber Company, The, Willard, Ohio. Household or garden gloves. 566,123, Oct. 28; Serial No. 624,757, published Aug. 5, 1952. Class 39.

Pittsburgh Plate Glass Company: *See*—
Rennous, Kleinle & Co.

Pocket Books, Inc., New York, N. Y. Books. 566,090, Oct. 28; Serial No. 622,621, published Aug. 5, 1952. Class 38.

Polak's Frutal Works Incorporated, Middletown, N. Y. Aromatic chemicals. 566,075, Oct. 28; Serial No. 621,781, published Aug. 5, 1952. Class 6.

Pollio Dairy Products Corporation, Brooklyn, N. Y. Cheese. 565,889, Oct. 28; Serial No. 592,659, published July 22, 1952. Class 46.

Post-Hall Syndicate, Inc., New York, N. Y. Cartoons. 566,112, Oct. 28; Serial No. 624,148, published July 22, 1952. Class 38.

Post-Hall Syndicate, Inc., New York, N. Y. Comic strips. 566,113–14, Oct. 28; Serial Nos. 624,150–1, published July 22, 1952. Class 38.

Post-Hall Syndicate, Inc., New York, N. Y. Series of cartoons or comic strips. 566,115–16, Oct. 28; Serial Nos. 624,152–3, published July 22, 1952. Class 38.

Precision Rubber Products Corporation, Dayton, Ohio. Hydraulic machinery packings. 566,183, Oct. 28; Serial No. 625,919. Class 35.

Preston Laboratories, Inc., doing business under the style name of The Thenylhist Co., Chicago, Ill. Liquid antihistaminic preparation. 565,943, Oct. 28; Serial No. 608,380, published July 22, 1952. Class 18.

Private Brands, Inc., to Clinton Foods Inc., New York N. Y. Mayonnaise. 293,245, renewed Apr. 19, 1952. O. G. Oct. 28. Class 46.

Protection Products Co., Chicago, Ill. Hassocks. 565,933, Oct. 28; Serial No. 607,140, published Aug. 5, 1952. Class 32.

Quaker Oats Company, The: *See*—
Coast Fishing Co.

Queen Stove Works, Inc., Albert Lea, Minn. Chips grains and fines of aluminum oxide, garnet, emery, etc., used as abrasives and polishing materials, etc. 566,153, Oct. 28; Serial No. 592,336. Class 4.

R. & S. Laboratories: *See*—
Roberts, Burt.

Rakit Corporation, Inc., assignee: *See*—
Baird, Edgar W., Jr.

Ralston Purina Company, St. Louis, Mo. Dairy feed. 565,854, Oct. 28; Serial No. 572,920, published July 22, 1952. Class 46.

Rasmussen, Walter V., doing business as Waller Manufacturing Company, Racine, Wis. Metal cemetery vases. 566 021, Oct. 28; Serial No. 617,887, published Aug. 12, 1952. Class 13.

Records & Goldsborough, Incorporated, Baltimore, Md., by Joseph S. Finch and Company, New York, N. Y. Cordials. 344,228, Feb. 16, 1937. Republished Oct. 28. Class 49.

Regal, John S., & Son, Inc., Cambridge, Mass. Ironing cords, electric extension cords, electric hotplates, etc. 566,013, Oct. 28; Serial No. 617,164, published July 29, 1952. Class 21.

Reichhold Chemicals, Inc., Detroit, Mich. Phenolic synthetic resinous binder. 566,126, Oct. 28; Serial No. 625,540, published Aug. 5, 1952. Class 5.

Rennous, Kleinle & Co., Baltimore, Md., to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Paint, varnish, sash-tools, etc. 87,367, re-renewed July 9, 1952. O. G. Oct. 28. Class 29.

Revlon Products Corporation, New York, N. Y. Nail enamel, lipsticks, face rouge, etc. 565,884, Oct. 28; Serial No. 589,531, published July 22, 1952. Class 51.

River Brand Rice Mills, Inc., New York, N. Y. Rice. 565,831, Oct. 28; Serial No. 538,815, published July 22, 1952. Class 46.

Robbins & Myers, Inc., Springfield, Ohio. Shallow-well water systems. 566,045, Oct. 28; Serial No. 620,109, published July 15, 1952. Class 23.

Robert Distributing Company, New York, N. Y. Paper headrest covers for dental chairs. 566,128, Oct. 28; Serial No. 625,868, published Aug. 5, 1952. Class 37.

Roberts, Burt, doing business as R. & S. Laboratories, New York, N. Y. Insecticidal compositions. 566,081, Oct. 28; Serial No. 622,029, published Aug. 5, 1952. Class 6.

Rockford Watch Co. Ltd., The, Rockford, to Illinois Watch Case Co., Elgin, Ill. Watchcases and watch-movements. 87,484, re-renewed July 16, 1952. O. G. Oct. 28. Class 27.

Roebling's, John A., Sons Company, Trenton, N. J. Fastenings, fittings, and attachments for wire, wire strand, or rope. 565,916, Oct. 28; Serial No. 601,754, published Aug. 12, 1952. Class 13.

Rohm & Haas Company, Philadelphia, Pa. Amine salts. 566,085, Oct. 28; Serial No. 622,410, published Aug. 5, 1952. Class 6.

Rome, David, Associates, New York, N. Y. Resinous plastics. 566,039, Oct. 28; Serial No. 619,771, published Aug. 5, 1952. Class 6.

Rooney, Naomi L., doing business under the name of Naomi Rooney System, Portland, Oreg. Educational publications and drawings. 566,016, Oct. 28; Serial No 617,264, published Aug. 12, 1952. Class 38.

Rooney, Naomi, System: *See*—
Rooney, Naomi L.

Rosenblatt, Albert, & Sons, Inc., New York, N. Y. Women's and misses' dresses. 566,105, Oct. 28; Serial No. 623,257, published Aug. 5, 1952. Class 39.

Royal Baking Powder Company, to Standard Brands Incorporated, New York, N. Y. Baking powder. 299,621, renewed Dec. 13, 1952. O. G. Oct. 28. Class 46.

Rub "N" Rinse Co.: *See*—
Rushton, Eugene R.

Ruberoid Co., The, Bound Brook, N. J., and New York, N. Y. Adhesive. 566,176, Oct. 28; Serial No. 616,536. Class 5.

Ruepp & Co., Ltd., Sarmenstorf, Switzerland. Knitted articles. 444,574, Oct. 2, 1951. Republished Oct. 28. Class 39.

Rushton, Eugene R., doing business under the name Rub "N" Rinse Co., Charlottesville, Va. Impregnated cloths. 566,177, Oct. 28; Serial No. 617,059. Class 29.

Russell, F. C., Company, The, Cleveland, Ohio. Combination storm and screen windows. 565,930, Oct. 28; Serial No. 606,441, published July 22, 1952. Class 12.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Bolts, nuts, rivets, etc. 565,842, Oct. 28; Serial No. 564,901, published Aug. 12, 1952. Class 13.

Ryerson, Joseph T., & Son, Inc., Chicago, Ill. Bolts, nuts, rivets, etc. 565,843, Oct. 28; Serial No. 564,904, published Aug. 12, 1952. Class 13.

St. Louis Lightning Protection Co., St. Louis, Mo. Electrical grounding rods. 565,959, Oct. 28; Serial No. 610,189, published Aug. 5, 1952. Class 21.

Salem-Brosius, Inc., Pittsburgh and Sharpsburg, Pittsburgh, Pa. Plate and goggle valves. 566,129, Oct. 28; Serial No. 626,219, published Aug. 12, 1952. Class 13.

Sales-Aide Service: *See*—
Gardner, Howard A.

Sanitary Food Manufacturing Company, by Griggs, Cooper & Company, St. Paul, Minn. Chocolate creams, chocolate caramels, any fondants, nuts or fruit dipped in chocolate, etc. 96,998, May 12, 1914. Republished Oct. 28. Class 46.

Sarna, S. S., Inc., New York, N. Y. Flexibly connected collection of ornamental bells. 566,109, Oct. 28; Serial No. 623,851, published Aug. 5, 1952. Class 13.

Schenley Industries, Inc.: *See*—
Pepper, Jas. E., & Company.
Schenley Products Company.

Schenley Products Company, by Schenley Industries, Inc., New York, N. Y. Whiskey, gin and brandy. 347,147, June 15, 1937. Republished Oct. 28. Class 49.

Schroeder Products Company, Inc., Woburn, Mass. Frozen coffee concentrate. 565,951, Oct. 28; Serial No. 608,476, published July 22, 1952. Class 46.

Schwartz, Max, doing business under the firm name and style of Max Schwartz Co., New York, N. Y. Woolen and rayon piece goods. 566,175, Oct. 28; Serial No. 616,301. Class 42.

Schwartz, Max, Co.: *See*—
Schwartz, Max.

Seacoast Canning Company, Eastport, to R. J. Peacock Canning Co., Lubec, Maine. Canned sardines. 89,149, re-renewed Nov. 12, 1952. O. G. Oct. 28. Class 46.

SeaPak Corporation, St. Simons Island, Ga. Frozen fresh seafoods. 566,169–70, Oct. 28; Serial No. 606,727–8. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Paper products. 565,871, Oct. 28; Serial No. 581,362, published July 22, 1952. Class 37.

Seoane, Abelino, Phoenix, Ariz. Medical preparation. 565,937, Oct. 28; Serial No. 607,695, published July 22, 1952. Class 18.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Therapeutic preparation. 565,947, Oct. 28; Serial No. 609,211, published July 8, 1952. Class 18.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Vitamin preparation. 565,948, Oct. 28; Serial No. 609,208, published July 8, 1952. Class 18.

Shaw, Alex D., & Co., New York, N. Y., to Duff Gordon & Co., Port St. Mary's, Spain. Sherry-wine. 87,012, re-renewed June 18, 1952. O. G. Oct. 28. Class 47.

Sheaffer, W. A., Pen Company, Fort Madison, Iowa. Ball point pens. 565,873, Oct. 28; Serial No. 582,701, published Aug. 5, 1952. Class 37.

Shell Oil Company, San Francisco, Calif., to Shell Oil Company, New York, N. Y. Furniture polish and automobile polish. 296,723, renewed Aug. 16, 1952. O. G. Oct. 28. Class 4.

Sherman Paper Products Corporation, Newton, Mass. Packaging divider or pad. 565,906, Oct. 28; Serial No. 599,267, published May 20, 1952. Class 37.

Sherwood Feed Mills, Inc., Baltimore, Md. Feeds. 565,859, Oct. 28; Serial No. 575,675, published July 22, 1952. Class 46.

Shield, Dan H., Cordage Company, Chicago, Ill. Wrapping twine. 565,982, Oct. 28; Serial No. 612,628, published Aug. 5, 1952. Class 7.

Smith, G. W., & Sons, Inc., Dayton, Ohio. Welding composition. 565,892, Oct. 28; Serial No. 594,407, published Aug. 5, 1952. Class 6.

Societe A Responsabilite Limitee Kunkelmann & Cie: *See*—
Kunkelmann & Cie. Societe Anonyme.

Societe des Accumulateurs Fixes & de Traction (Société Anonyme), Romainville (Seine), France. Primary and secondary batteries. 565,957, Oct. 28; Serial No. 610,107, published Aug. 5, 1952. Class 21.

Société Omaro, Paris, France. Charts and tables. 565,883, Oct. 28; Serial No. 588,829, published July 22, 1952. Class 38.

Soderfors Bruks Aktiebolag, to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden. High speed tool steel. 86,099, re-renewed Apr. 9, 1952. O. G. Oct. 28. Class 14.

Soderfors Bruks Aktiebolag, to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden. Tool steel. 86,100, re-renewed Apr. 9, 1952. O. G. Oct. 28. Class 14.

Sola Electric Company, Chicago, Ill. Transformers or ballasts. 566,009, Oct. 28; Serial No. 616,782, published Aug. 5, 1952. Class 21.

Solo-Horton Brush Company, Incorporated, New York, N. Y. Brushes. 566,144, Oct. 28; Serial No. 576,723. Class 29.

South Bend Bait Company, South Bend, Ind. Fishing-tackle, fish-lines, fishing-reels, etc. 89,384, re-renewed Dec. 10, 1952. O. G. Oct. 28. Class 22.

Southern Acid & Sulphur Company, Incorporated: *See*—
Mathieson Chemical Corporation.

Spiral Binding Company, Inc., New York, N. Y. Binders for loose leaf books. 565,848, Oct. 28; Serial No. 568,684, published Aug. 5, 1952. Class 37.

Square D Company, Detroit, Mich. Electric panelboards and electric control boards. 295,344, renewed June 28, 1952. O. G. Oct. 28. Class 21.

Squibb, E. R., & Sons, New York, N. Y. Preparation for the treatment of cough. 566,091, Oct. 28; Serial No. 622,630, published July 22, 1952. Class 18.

Stahl-Urban Company, Terre Haute, Ind., to Stahl-Urban Company, Terre Haute, Ind., and Brookhaven, Miss. Sport clothing. 294,710, renewed June 7, 1952. O. G. Oct. 28. Class 39.

Standard Brands Incorporated: *See*—
Royal Baking Powder Company.

Standard Education Society, Chicago, Ill. Set of reference books for children. 566,124, Oct. 28; Serial No. 624,763, published Aug. 12, 1952. Class 38.

Standard-Toch Chemicals, Inc., Staten Island, N. Y. Gloss, semi-gloss and flat paints, and paint enamels. 566,065, Oct. 28; Serial No. 621,291, published Aug. 5, 1952. Class 16.

Standard-Toch Chemicals, Inc.: *See*—
Standard Varnish Works.

Standard Varnish Works, New York, to Standard-Toch Chemicals, Inc., Staten Island, N. Y. Liquid filler intended for priming and first coating. 89,514, re-renewed Dec. 17, 1952. O. G. Oct. 28. Class 16.

Steel, Inc., Scottdale, Ga. Steel grandstands and bleachers. 565,987, Oct. 28; Serial No. 613,245, published July 22, 1952. Class 12.

Stenzel, R., Food Products: *See*—
Stenzel, Rudolph J.

Stenzel, R., Pickle Products: *See*—
Stenzel, Rudolph J.

Stenzel, Rudolph J., doing business as R. Stenzel Food Products and R. Stenzel Pickle Products, San Leandro, Calif. Cane and maple syrup, honey, sweet pickles, etc. 566,037, Oct. 28; Serial No. 619,590, published July 29, 1952. Class 46.

Sterling Pulp & Paper Company, Eau Claire, Wis. Toilet paper, waxed paper, household rolls, etc. 565,856, Oct. 28; Serial No. 573,988, published Mar. 13, 1951. Class 37.

Stora Kopparbergs Bergslags Aktiebolag: *See*—
Soderfors Bruks Aktiebolag.

Storck's Baking Company: *See*—
Storck Baking Company, Inc.

Storck Baking Company, Inc., doing business under the name Storck's Baking Company, Parkersburg, W. Va. Bakery products. 566,001, Oct. 28; Serial No. 615,582, published July 29, 1952. Class 46.

Strasenburgh, R. J., Company, Rochester, N. Y. Medicinal preparation. 566,048, Oct. 28; Serial No. 620,176, published July 8, 1952. Class 18.

Straus, Henry, Co., The, Cincinnati, Ohio. Cigars and smoking tobacco. 565,849, Oct. 28; Serial No. 569,023, published Aug. 5, 1952. Class 17.

Stylofede Corporation, Glendale, Calif. Hand knitting needles. 565,841, Oct. 28; Serial No. 562,283, published June 24, 1952. Class 40.

Sullivan, John F., doing business under the name of Travelers Pen Company, New York, N. Y. Fountain pens, mechanical pencils, and ball point pens. 566,127, Oct. 28; Serial No. 625,831, published July 29, 1952. Class 37.

Sun Oil Company, Philadelphia, Pa. Lubricating oil. 299,511, renewed Dec. 6, 1952. O. G. Oct. 28. Class 15.

Sun Printing & Publishing Association, The, by New York World-Telegram Corporation, New York, N. Y. Title of a column printed daily in "The Sun." 289,942, Dec. 15, 1931. Republished Oct. 28, 1952. Class 38.

Sun Rubber Company, The, Barberton, Ohio. Basketballs. 566,095, Oct. 28; Serial No. 622,858, published July 29, 1952. Class 22.

Supply Manufacturing Co. Inc., New York, N. Y. Belting in the nature of findings. 565,858, Oct. 28; Serial No. 575,608, published June 24, 1952. Class 40.

Supply Manufacturing Co. Inc., New York, N. Y. Belting in the nature of findings. 565,863, Oct. 28; Serial No. 576,369, published June 3, 1952. Class 40.

Swift and Company, to Swift & Company, Chicago, Ill. Eggs. 38,576, re-renewed July 8, 1952. O. G. Oct. 28. Class 46.

Swift & Company, assignee: *See*—
American Packing & Provision Co.

Swift & Company: *See*—
Swift and Company.

Takara Laboratories: *See*—
Takara Laboratories Corporation.

Takara Laboratories Corporation, doing business under the name Takara Laboratories, Hollywood, Calif. Liquid hair shampoo. 565,979, Oct. 28; Serial No. 612,280, published Aug. 5, 1952. Class 52.

Talon, Inc., Meadville, Pa. Slide fasteners. 566,148, Oct. 28; Serial No. 583,010. Class 13.

Tap-A-Line: *See*—
McFarlin, Robert W.

Tappan Stove Company, The, Mansfield, Ohio. Indicating dials for manually actuated rotary electric switches. 565,903, Oct. 28; Serial No. 597,982, published July 8, 1952. Class 21.

Texas Housing Company, Dallas, Tex. Prefabricated houses. 566,162, Oct. 28; Serial No. 603,090. Class 12.

Thenylhist Co., The: *See*—
Preston Laboratories, Inc.

Thomas Flexible Coupling Company, Warren, Pa. Flexible machinery couplings. 299,599, renewed Dec. 13, 1952. O. G. Oct. 28. Class 23.

Tileston and Hollingsworth Company, Boston, Mass. Printing and writing paper. 565,965, Oct. 28; Serial No. 611,050, published July 1, 1952. Class 37.

Traum, David, Company, Inc., New York, N. Y. Art needlework accessory. 566,030, Oct. 28; Serial No. 618,718, published June 3, 1952. Class 40.

Travelers Pen Company: *See*—
Sullivan, John F.

Trent, Vance L., Los Angeles, Calif. Lock nuts. 566,035, Oct. 28; Serial No. 619,413, published Aug. 5, 1952. Class 13.

Trout, Frederick, Company, Incorporated, Atlanta, Ga. Medicinal preparation. 566,086, Oct. 28; Serial No. 622,519, published July 22, 1952. Class 18.

Truscon Steel Company, Youngstown, Ohio. Foundry flasks including dowel pins and flask bars, etc. 565,972, Oct. 28; Serial No. 611,204, published July 15, 1952. Class 23.

Tru-Value Food Products, Santa Cruz, Calif. Fried pork skins. 565,839, Oct. 28; Serial No. 560,666, published July 29, 1952. Class 46.

Union Wadding Company, Pawtucket, R. I. Oil and wax treated dusting, polishing, and wiping cloths. 565,835, Oct. 28; Serial No. 555,574, published Aug. 5, 1952. Class 4.

United-Carr Fastener Corporation, Cambridge, Mass. Threaded nut type fasteners and attaching sleeves. 566,027–8, Oct. 28; Serial Nos. 618,329–30, published Aug. 5, 1952. Class 13.

United Condenser Corporation, New York, N. Y. Condensers. 566,152, Oct. 28; Serial No. 591,001. Class 21.

United Feature Syndicate, Inc., New York, N. Y. Pictures of current news interest for reproduction in newspapers. 565,992, Oct. 28; Serial No. 614,074, published Aug. 12, 1952. Class 38.

United Hosiery Mills Corporation, to Bebon Corporation, Chattanooga, Tenn. Cotton yarn. 551,345, Nov. 27, 1951. New certificate. O. G. Oct. 28. Class 43.

United Merchants and Manufacturers, Inc.: *See*—
Helwith, Alfred L.

United States Finishing Company, The, Norwich, Conn. Finishing of textile fabrics. 566,134, Oct. 28; Serial No. 554,632, published Aug. 5, 1952. Class 106.

United States Pen Company, Inc., New York, N. Y. Fountain pens, mechanical pencils, and ball points pens. 565,897, Oct. 28; Serial No. 596,311, published May 20, 1952. Class 37.

United States Rubber Company: *See*—
Fisk Rubber Company.
Naugatuck Chemical Company, The.

United Technical Laboratories, Morristown, N. J. Electrical test prods. 566,160, Oct. 28; Serial No. 599,400. Class 21.

Utility Appliance Corp., Los Angeles, Calif. Individual water pumps, and individual V-belt pulleys. 444,688, May 6, 1952. Republished Oct. 28. Class 23.

V-M Corporation, Benton Harbor, Mich. Magnetic tape type office dictating machines. 565,995, Oct. 28; Serial No. 614,373, published July 29, 1952. Class 21.

Valley Paper Company, Holyoke, Mass. Writing, typewriter, and printing paper. 565,826, Oct. 28; Serial No. 527,646, published Apr. 1, 1952. Class 37.

Valley Paper Company, Holyoke, Mass. Writing, typewriter, and printing paper. 565,827, Oct. 28; Serial No. 528,007, published May 27, 1952. Class 37.

Van, W. T., Company: *See*—
Van, Wylie T.

Van, Wylie T., doing business as W. T. Van Company, St. Paul, Minn. Combination wall calendar and filing envelope. 566,107, Oct. 28; Serial No. 623,381, published Aug. 12, 1952. Class 38.

Vande Mark, Walter, doing business as Di-De-O Co., Detroit, Mich. Deodorant. 565,904, Oct. 28; Serial No. 598,620, published Aug. 5, 1952. Class 6.

Vanguard Corporation, Springfield, Mass. Plastic inflatable toys. 565,866, Oct. 28; Serial No. 579,239, published July 29, 1952. Class 22.

Velvetone Finishing Corporation, New York, N. Y. Finishing and decorating printed and blank sheet paper and paper products' material of others. 566,137, Oct. 28; Serial No. 592,954, published Aug. 5, 1952. Class 106.

Vereinigte Chemische Fabriken Kreidl, Heller & Co., Vienna, Austria, vested in the Attorney General of the United States, Washington, D. C. Opaquing agents in the nature of paint pigments, ceramic paint colours, etc. 295,052–3, renewed June 14, 1952. O. G. Oct. 28. Class 16.

Vitramon Incorporated, Easton and Stepney, Conn. Capacitors. 565,945, Oct. 28; Serial No. 609,521, published July 8, 1952. Class 21.

Vlock, Joseph T., La Porte, Ind. Pillows. 566,067, Oct. 28; Serial No. 621,383, published Aug. 5, 1952. Class 32.

Voiello, Fratelli, S. p. a., Genoa, Italy. Macaroni and vermicelli. 566,068, Oct. 28; Serial No. 621,402, published July 22, 1952. Class 46.

Walker, Edwin F., doing business as Whip-it Company, Dallas, Tex. Electrically operated lawn edging machines. 565,971, Oct. 28; Serial No. 611,159, published June 24, 1952. Class 23.

Waller Manufacturing Company: *See*—
Rasmussen, Walter Y.

Walsh, Deleon, Long Island City, to Duvernoy & Sons, Inc., New York, N. Y. Swedish bread. 295,172, renewed June 21, 1952. O. G. Oct. 28. Class 46.

Walterisation Company Limited, The, Croydon, Surrey, England. Chemical preparation. 566,019, Oct. 28; Serial No. 617,639, published Aug. 5, 1952. Class 52.

Weco Products Company: *See*—
Western Bottle Mfg. Co.

Weekly Publications, Inc., New York, N. Y. Periodical publication. 566,044, Oct. 28; Serial No. 620,064, published July 29, 1952. Class 38.

Welman Company, The, Rockford, Ill. Household furniture. 565,913, Oct. 28; Serial No. 601,346, published Aug. 5, 1952. Class 32.

Western Air Lines, Inc., Los Angeles, Calif. Air transportation of passengers, freight, and mail. 566,133, Oct. 28; Serial No. 494,877, published Aug. 5, 1952. Class 105.

Western Bottle Mfg. Co., doing business as The Western Company, to Weco Products Company, Chicago, Ill. Handkerchiefs. 298,695, renewed Nov. 1, 1952. O. G. Oct. 28. Class 39.

Western Company, The: *See*—
Western Bottle Mfg. Co.

Western Fruit & Produce Co., Inc., Yakima, Wash. Fresh deciduous fruits. 565,874, Oct. 28; Serial No. 584,177, published July 22, 1952. Class 46.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. 444,730, Oct. 28; Serial No. 526,160, published May 20, 1952. Class 37.

Westfield River Paper Co., Inc., Russell, Mass. Embossed glassine paper. 295,805, renewed July 12, 1952. O. G. Oct. 28. Class 37.

Whip-it Company: *See*—
Walker, Edwin F.

White Adhesive Company, Inc., Newtonville, Mass. Water-dispersed plastic adhesives. 566,173, Oct. 28; Serial No. 611,626. Class 5.

White House Milk Company, Inc., New York, N. Y. Canned evaporated milk. 565,958, Oct. 28; Serial No. 610,154, published Jan. 15, 1952. Class 46.

White-Washburne Company, Inc., Hinsdale, N. H. Paper napkins. 566,094, Oct. 28; Serial No. 622,764, published July 29, 1952. Class 37.
Wichita Allied Printing Trades Council, Wichita, Kans. Periodical. 566,038, Oct. 28; Serial No. 619,729, published July 29, 1952. Class 38.
Wildroot Company Inc., Buffalo, N. Y. Hair tonics, wave sets, etc. 299,653, renewed Dec. 13, 1952. O. G. Oct. 28. Class 51.
Williams Farms Company, Inc., Oxnard, Calif., and Hereford, Tex. Fresh lettuce. 566,050, Oct. 28; Serial No. 620,283, published Aug. 5, 1952. Class 46.
Williams, J. B., Company, The, Glastonbury, Conn. Shaving and toilet soaps. 87,832, re-renewed Aug. 6, 1952. O. G. Oct. 28. Class 51.
Williams, J. B., Company, The, Glastonbury, Conn. Shaving and toilet soaps. 87,833, re-renewed Aug. 6, 1952. O. G. Oct. 28. Class 51.
Wilson Jones Company, Chicago, Ill. Covered and bound blank books, trial balance books, memorandum books, etc. 298,879, renewed Nov. 8, 1952. O. G. Oct. 28. Class 37.
Wilson Jones Company, Chicago, Ill. Filing envelopes, mailing envelopes, filing folders, etc. 299,671, renewed Dec. 13, 1952. O. G. Oct. 28. Class 37.
Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Pesticides. 565,902, Oct. 28; Serial No. 597,925, published Aug. 5, 1952. Class 6.
"Wink" Needle Threader Company: *See*— Kahn, Julian S.
Woempner, W. L., San Francisco, Calif. Adjustable swinging arm, used as an attachment for standard desk type telephone sets. 565,950, Oct. 28; Serial No. 609,018, published Aug. 5, 1952. Class 21.
Woodhead, Daniel, Company, Chicago, Ill. Electrical circuit connectors. 566,108, Oct. 28; Serial No. 623,494, published Aug. 5, 1952. Class 21.
Woodman Company, Inc., The, Avondale Estates, Ga. Electrically operated machine. 566,150, Oct. 28; Serial No. 587,518. Class 21.
Wooster Brass Company, The, Wooster, assignor to The Fyr-Fyter Company, Dayton, Ohio. Fire fighting equipment. 566,036, Oct. 28; Serial No. 619,417, published Aug. 12, 1952. Class 13.
Wynton Brassiere Co. Inc., Brooklyn, N. Y. Brassières. 566,102, Oct. 28; Serial No. 623,034, published Aug. 5, 1952. Class 39.
Young Brothers, to Young's Merchandising Corporation, New York, N. Y. Men's and boys' hats. 295,198, renewed June 21, 1952. O. G. Oct. 28. Class 39.
Young's Merchandising Corporation: *See*— Young Brothers.
Zeman, Marianne: *See*— Haeseler, Loren M.
Zenith Tool Company: *See*— Pierce, Ernest P.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 2

Boxes, cases, trays, and shipping cartons, Cardboard and paper. Maryland Paper Box Company. 566,151, Oct. 28; Serial No. 589,665.
Cups. Northwest Plastics, Inc. 566,147, Oct. 28; Serial No. 580,025.

CLASS 4

Chips, grains and fines of aluminum oxide, garnet, emery, etc., used as abrasives and polishing materials, etc. Queen Stove Works, Inc. 566,153, Oct. 28; Serial No. 592,336.
Oil and wax treated dusting, polishing, and wiping cloths. Union Wadding Company. 565,835, Oct. 28; Serial No. 555,574, published Aug. 5, 1952.
Polish, Automobile. Lustur-Seal Corporation. 565,847, Oct. 28; Serial No. 568,066, published July 8, 1952.
Polish, Furniture, and automobile polish. Shell Oil Company. 296,723, renewed Aug. 16, 1952. O. G. Oct. 28.

CLASS 5

Adhesive. The Ruberoid Co. 566,176, Oct. 28; Serial No. 616,536.
Adhesives. Benjamin Foster Company. 566,096, Oct. 28; Serial No. 622,888, published Aug. 5, 1952.
Adhesives and cements, Synthetic resinous. Ciba Limited. 566,014, Oct. 28; Serial No. 617,226, published Aug. 5, 1952.
Adhesives, Water-dispersed plastic. White Adhesive Company, Inc. 566,173, Oct. 28; Serial No. 611,626.
Friction-tape. The M. W. Dunton Company. 86,980, re-renewed June 18, 1952. O. G. Oct. 28.
Friction-tape. The M. W. Dunton Company. 87,436, re-renewed July 16, 1952. O. G. Oct. 28.
Glue, Strip. I. Hill. 566,098, Oct. 28; Serial No. 622,896, published Aug. 5, 1952.
Gummed paper tape. Mid-States Gummed Paper Co. 566,146, Oct. 28; Serial No. 578,274.
Paste, Wall paper, and wall size eliminators. Paste Company of America. 566,166, Oct. 28; Serial No. 604,660.
Phenolic synthetic resinous binder. Reichhold Chemicals, Inc. 566,126, Oct. 28; Serial No. 625,540, published Aug. 5, 1952.

CLASS 6

Acetic acid, acetone, 2-amino-1-butanol, etc. Commercial Solvents Corporation. 566,011, Oct. 28; Serial No. 616,897, published Aug. 5, 1952.
Amine salts. Rohm & Haas Company. 566,085, Oct. 28; Serial No. 622,410, published Aug. 5, 1952.
Calcium base, pulp type, metallic soap. The W. H. Fales Company. 566,057–8, Oct. 28; Serial Nos. 620,913–14, published Aug. 5, 1952.
Cation exchange materials. Alrose Chemical Company. 566,061, Oct. 28; Serial No. 621,096, published Aug. 5, 1952.
Cellulose esters and ethers and their salts, etc. Algemene Kunstzijde Unie N. V. 566,007, Oct. 28; Serial No. 616,581, published Aug. 5, 1952.
Chemical products. Farbenfabriken Bayer. 566,043, Oct. 28; Serial No. 619,966, published Aug. 5, 1952.
Chemical substances. Imperial Chemical Industries Limited. 566,031, Oct. 28; Serial No. 618,796, published Aug. 5, 1952.
Chemicals. Heatbath Corporation. 566,020, Oct. 28; Serial No. 617,796, published July 29, 1952.
Chemicals. Kay-Fries Chemicals, Inc. 565,876, Oct. 28; Serial No. 584,815, published July 22, 1952.
Chemicals. The Naugatuck Chemical Company. 296,353, renewed Aug. 2, 1952. O. G. Oct. 28.
Chemicals. The Naugatuck Chemical Company. 296,355, renewed Aug. 2, 1952. O. G. Oct. 28.
Chemicals, Aromatic. Polak's Frutal Works Incorporated. 566,075, Oct. 28; Serial No. 621,781, published Aug. 5, 1952.
Deodorant. W. Vande Mark. 565,904, Oct. 28; Serial No. 598,620, published Aug. 5, 1952.
Herbicides, insecticides and fungicides. Monsanto Chemical Company. 565,891, Oct. 28; Serial No. 594,392, published Aug. 5, 1952.
Insecticidal compositions. B. Roberts. 566,081, Oct. 28; Serial No. 622,029, published Aug. 5, 1952.
Insecticide, Liquid. Midway Chemical Company. 296,204, renewed Aug. 2, 1952. O. G. Oct. 28.
Insecticides. Central City Chemical Company. 324,466, May 21, 1935. Republished Oct. 28.
Insecticides. Mechling Brothers Chemical Company. 298,606, renewed Nov. 1, 1952. O. G. Oct. 28.
Paraformaldehyde. Heyden Chemical Corporation. 565,908, Oct. 28; Serial No. 599,947, published Aug. 5, 1952.
Pesticides. Wilson & Toomer Fertilizer Co. 565,902, Oct. 28; Serial No. 597,925, published Aug. 5, 1952.
Resinous plastics. David Rome Associates. 566,039, Oct. 28; Serial No. 619,771, published Aug. 5, 1952.
Sodium salicylate. Heyden Chemical Corporation. 565,909, Oct. 28; Serial No. 599,948, published Aug. 5, 1952.
Solutions of formaldehyde and butyl alcohol. Heyden Chemical Corporation. 565,936, Oct. 28; Serial No. 607,629, published July 8, 1952.
Spray mixtures. Homestead Valve Manufacturing Company. 566,005, Oct. 28; Serial No. 616,377, published Aug. 5, 1952.
Stucco colors. Miller Materials Company. 566,158, Oct. 28; Serial No. 597,283.
Sulphur. Mathieson Chemical Corporation. 565,860, Oct. 28; Serial No. 576,147, published July 29, 1952.
Sulphur. Mathieson Chemical Corporation. 565,861, Oct. 28; Serial No. 576,150, published July 29, 1952.
Synthetic waxes. Mamaroneck Chemical Corporation. 565,907, Oct. 28; Serial No. 599,835, published Aug. 5, 1952.
Tannic acid compounds and mud conditioner. V. E. Ekholm. 566,029, Oct. 28; Serial No. 618,539, published Aug. 5, 1952.
Weed-killer and insecticide. Northwest Chemical, Inc. 565,956, Oct. 28; Serial No. 610,089, published Aug. 5, 1952.
Welding composition. G. W. Smith & Sons, Inc. 565,892, Oct. 28; Serial No. 594,407, published Aug. 5, 1952.

CLASS 7

Paper covered wire plant ties. McHutchison & Co. 566,149, Oct. 28; Serial No. 583,655.
Twine, Wrapping. Dan H. Shield Cordage Company. 565,982, Oct. 28; Serial No. 612,628, published Aug. 5, 1952.

CLASS 8

Cigarette paper. Liggett & Myers Tobacco Company. 299,361, renewed Nov. 29, 1952. O. G. Aug. 28.

Smokers' accessories. McDonald Products Corporation. 565,898, Oct. 28; Serial No. 596,611, published Aug. 5, 1952.
Smokers' articles. Gorham Manufacturing Company. 566,097, Oct. 28; Serial No. 622,891, published July 29, 1952.

CLASS 9

Shotguns. Cody Sales Company, Chicago, Ill. 566,101, Oct. 28; Serial No. 622,990, published Aug. 5, 1952.

CLASS 12

Cement, Portland. Nazareth Cement Company. 297,513, renewed Sept. 20, 1952. O. G. Oct. 28.
Emery aggregate and crushed emery. Walter Maguire Company, Inc. 565,991, Oct. 28; Serial No. 613,879, published July 22, 1952.
Plasters or mortars, Mill mixed. The Cleveland Gypsum Company. 565,845, Oct. 28; Serial No. 566,451, published July 22, 1952.
Prefabricated houses. Texas Housing Company. 566,162, Oct. 28; Serial No. 603,090.
Steel grandstands and bleachers. Steel, Inc. 565,987, Oct. 28; Serial No. 613,245, published July 22, 1952.
Tiles. American Encaustic Tiling Co. Ltd. 86,681, re-renewed May 28, 1952. O. G. Oct. 28.
Tiles. American Encaustic Tiling Co. Ltd. 87,307, re-renewed July 9, 1952. O. G. Oct. 28.
Windows, Combination storm and screen. The F. C. Russell Company. 565,930, Oct. 28; Serial No. 606,441, published July 22, 1952.
Wooden dowels, Packages of. Dowelcraft Company. 565,881, Oct. 28; Serial No. 587,855, published July 29, 1952.

CLASS 13

Bolts, nuts, rivets, etc. Joseph T. Ryerson & Son, Inc. 565,842, Oct. 28; Serial No. 564,901, published Aug. 12, 1952.
Bolts, nuts, rivets, etc. Joseph T. Ryerson & Son, Inc. 565,843, Oct. 28; Serial No. 564,904, published Aug. 12, 1952.
Door latches and handles. Laboratory Equipment Corporation. 566,104, Oct. 28; Serial No. 623,197, published Aug. 12, 1952.
Drapery rods and carriers. The Eastern Venetian Blind Company. 566,118, Oct. 28; Serial No. 624,334, published Aug. 12, 1952.
Fastening devices. Aviation Developments Limited. 566,010, Oct. 28; Serial No. 616,892, published Aug. 5, 1952.
Fastenings, fittings, and attachments for wire, wire strand, or rope. John A. Roebling's Sons Company. 565,916, Oct. 28; Serial No. 601,754, published Aug. 12, 1952.
Fire fighting equipment. The Wooster Brass Company. 566,036, Oct. 28; Serial No. 619,417, published Aug. 12, 1952.
Flexibly connected collection of ornamental bells. S. S. Sarna, Inc. 566,109, Oct. 28; Serial No. 623,851, published Aug. 5, 1952.
Grip clamp. M. La Marca. 566,111, Oct. 28; Serial No. 624,035, published Aug. 12, 1952.
Hammered aluminum ware. Krischer Metal Products Co. 566,164, Oct. 28; Serial No. 603,798.
Lock nuts. V. L. Trent. 566,035, Oct. 28; Serial No. 619,413, published Aug. 5, 1952.
Machine bolt expansion shields, expansion bolts, expansion shield, etc. Diamond Expansion Bolt Co. 298,252, renewed Oct. 18, 1952. O. G. Oct. 28.
Metal cemetery vases. W. V. Rasmussen. 566,021, Oct. 28; Serial No. 617,887, published Aug. 12, 1952.
Metal tubes and tubing. Helical Tube Corporation. 566,017, Oct. 28; Serial No. 617,399, published Aug. 5, 1952.
Nails. The Independent Nail and Packing Company. 566,103, Oct. 28; Serial No. 623,192, published Aug. 12, 1952.
Nails. The Independent Nail and Packing Company. 566,106, Oct. 28; Serial No. 623,306, published Aug. 12, 1952.
Nails, Upholstery, jack chain, brass plumbers, etc. The Mattatuck Manufacturing Company. 297,334, renewed Sept. 13, 1952. O. G. Oct. 28.
Pressure-regulators, water-columns, cocks, etc. The Lunkenheimer Company. 89,279, re-renewed Dec. 3, 1952. O. G. Oct. 28.
Slide fasteners. Talon, Inc. 566,148, Oct. 28; Serial No. 583,010.
Steel racks. E. W. Baird, Jr. 566,022, Oct. 28; Serial No. 617,905, published Aug. 5, 1952.
Traction devices. Howard Products Incorporated. 566,110, Oct. 28; Serial No. 623,888, published Aug. 5, 1952.
Threaded nut type fasteners and attaching sleeves. United-Carr Fastener Corporation. 566,027–8, Oct. 28; Serial No. 618,329–30, published Aug. 5, 1952.
Valves, Plate and goggle. Salem-Brosius, Inc. 566,129, Oct. 28; Serial No. 626,219, published Aug. 12, 1952.

CLASS 14

Castings. American Brake Shoe & Foundry Company. 87,141, re-renewed July 2, 1952. O. G. Oct. 28.
Steel, High speed tool. Soderfors Bruks Aktiebolag. 86,099, re-renewed Apr. 9, 1952. O. G. Oct. 28.
Steel, Tool. Soderfors Bruks Aktiebolag. 86,100, re-renewed Apr. 9, 1952. O. G. Oct. 28.

CLASS 15

Oil, Lubricating. Sun Oil Company. 299,511, renewed Dec. 6, 1952. O. G. Oct. 28.

CLASS 16

Liquid filler intended for priming and first coating. Standard Varnish Works. 89,514, re-renewed Dec. 17, 1952. O. G. Oct. 28.
Liquid for the fireproofing of various materials, such as textiles, wood, etc. M. J. Merkin Paint Co., Inc. 299,232, renewed Nov. 22, 1952. O. G. Oct. 28.
Opaquing agents in the nature of paint pigments, ceramic paint colours, etc. Vereinigte Chemische Fabriken Kreidl, Heller & Co. 295,052–3, renewed June 14, 1952. O. G. Oct. 28.
Paint enamels and undercoats. S. C. Johnson & Son. 298,966, renewed Nov. 15, 1952. O. G. Oct. 28.
Paint, Graphite base. General Paint Corporation. 565,929, Oct. 28; Serial No. 606,375, published July 8, 1952.
Paints, Dry and mixed, wall-finishes, stains, etc. The Patterson-Sargent Company. 87,252, re-renewed July 2, 1952. O. G. Oct. 28.
Paints, Gloss, semi-gloss and flat, and paint enamels. Standard-Toch Chemicals, Inc. 566,065, Oct. 28; Serial No. 621,291, published Aug. 5, 1952.
Paints, Oil, and paint enamels. The Bissell Varnish Company. 444,729, Oct. 28; Serial No. 515,606, published June 21, 1949.

CLASS 17

Cigars and smoking tobacco. The Henry Straus Co. 565,849, Oct. 28; Serial No. 569,023, published Aug. 5, 1952.
Cigarettes. Brown & Williamson Tobacco Corporation. 565,867, Oct. 28; Serial No. 580,399, published Aug. 5, 1952.
Tobacco, Smoking, cigarettes, cigars, etc. J. E. Flood. 566,060, Oct. 28; Serial No. 620,962, published Aug. 5, 1952.

CLASS 18

Ampules. The French-American Pharmaceuticals Co., Inc. 566,040, Oct. 28; Serial No. 619,826, published July 22, 1952.
Antacid powder. T. E. Gaetz. 565,923, Oct. 28; Serial No. 605,209, published July 8, 1952.
Anti-histaminic preparation, Liquid. Preston Laboratories, Inc. 565,943, Oct. 28; Serial No. 608,380, published July 22, 1952.
Antiseptic solution. Holland-Rantos Company, Inc. 566,093, Oct. 28; Serial No. 622,744, published July 22, 1952.
Chloral hydrate capsules. Fellows Medical Manufacturing Company, Inc. 566,049, Oct. 28; Serial No. 620,203, published July 22, 1952.
Cough syrup. The Althena Company, Incorporated. 566,181, Oct. 28; Serial No. 624,441.
Evacuants. American Cyanamid Company. 565,960, Oct. 28; Serial No. 610,355, published July 8, 1952.
Liquid preparation for cold discomforts, etc. Dacus Drug Company, Inc. 565,927, Oct. 28; Serial No. 605,847, published July 8, 1952.
Medical preparation. A. Seoane. 565,937, Oct. 28; Serial No. 607,695, published July 22, 1952.
Medicinal preparation. R. J. Strasenburgh Company. 566,048, Oct. 28; Serial No. 620,176, published July 8, 1952.
Medicinal preparation. Frederick Trout Company, Incorporated. 566,086, Oct. 28; Serial No. 622,519, published July 22, 1952.
Mosquito immunizing agent. Broemmel Pharmaceuticals. 565,925, Oct. 28; Serial No. 605,715, published July 8, 1952.
Ointment, Hair. E. N. Johnson. 565,917, Oct. 28; Serial No. 602,404, published July 22, 1952.
Ointment, Medicated. Colin Pharmacal Co., Inc. 565,921, Oct. 28; Serial No. 604,074, published July 8, 1952.
Pharmaceutical preparation. Dexter Laboratories. 565,879, Oct. 28; Serial No. 585,372, published July 8, 1952.
Preparation for the treatment of cough. E. R. Squibb & Sons. 566,091, Oct. 28; Serial No. 622,630, published July 22, 1952.
Preparation of penicillin and dihydrostreptomycin. Parke, Davis & Company. 566,089, Oct. 28; Serial No. 622,618, published July 22, 1952.
Remedies for catarrh, hay-fever, cold in the head, etc. T. N. Kenyon. 38,348, re-renewed May 27, 1952. O. G. Oct. 28.
Syrup for coughs, cough drops, cold capsules, etc. L. M. Haeseler. 298,742, renewed Nov. 1, 1952. O. G. Oct. 28.
Tablets for the relief of pain. The Norwich Pharmacal Company. 565,955, Oct. 28; Serial No. 608,998, published July 8, 1952.
Therapeutic preparation. Sharp & Dohme, Incorporated. 565,947, Oct. 28; Serial No. 609,211, published July 8, 1952.
Triple sulfonamide preparation. Abbott Laboratories. 565,944, Oct. 28; Serial No. 609,836, published July 22, 1952.

Vaccine, Hog cholera. Norden Laboratories. 566,066, Oct. 28; Serial No. 621,373, published July 8, 1952.
Vitamin in soya lecithin base. Associated Concentrates, Inc. 565,952, Oct. 28; Serial No. 608,736, published July 8, 1952.
Vitamin preparation. Sharp & Dohme, Incorporated. 565,948, Oct. 28; Serial No. 609,208, published July 8, 1952.

CLASS 21

Adjustable swinging arm, used as an attachment for standard desk type telephone sets. W. L. Woempner. 565,950, Oct. 28; Serial No. 609,018, published Aug. 5, 1952.
Antennas, Radio. Grayburne Corporation. 565,996, Oct. 28; Serial No. 614,502, published July 29, 1952.
Antennas, Radio. Grayburne Corporation. 565,997, Oct. 28; Serial No. 614,503, published July 22, 1952.
Batteries, Primary and secondary. Societe des Accumulateurs Fixes & de Traction (Société Anonyme). 565,957, Oct. 28; Serial No. 610,107, published Aug. 5, 1952.
Batteries, Storage. F. W. Grosche. 297,087, renewed Aug. 30, 1952. O. G. Oct. 28.
Bottle heater and cooking appliance, Electrically operated combination baby. Electric Steam Radiator Corporation. 565,846, Oct. 28; Serial No. 566,462, published Aug. 5, 1952.
Capacitors. Vitramon Incorporated. 565,945, Oct. 28; Serial No. 609,521, published July 8, 1952.
Circuit breakers. I-T-E Circuit Breaker Company. 565,852, Oct. 28; Serial No. 571,972, published Mar. 6, 1951.
Circuit connectors, Electrical. D. Woodhead. 566,108, Oct. 28; Serial No. 623,494, published Aug. 5, 1952.
Condensers. United Condenser Corporation. 566,152, Oct. 28; Serial No. 591,001.
Control for a magnetic sound recording and reproducing device. Magnetic Recording Industries, Ltd. 565,894, Oct. 28; Serial No. 595,506, published July 22, 1952.
Dictating machine, Magnetic tape type office. V-M Corporation. 565,995, Oct. 28; Serial No. 614,373, published July 29, 1952.
Electric panelboards and electric control boards. Square D Company. 295,344, renewed June 28, 1952. O. G. Oct. 28.
Electrical apparatus. Laurel Lamp Manufacturing Co., Inc. 566,033, Oct. 28; Serial No. 619,163, published Aug. 5, 1952.
Electrical apparatus. Laurel Lamp Manufacturing Co., Inc. 566,182, Oct. 28; Serial No. 624,839.
Electrical batteries. Hellesens Enke & V. Ludvigsen A/S. 565,882, Oct. 28; Serial No. 588,135, published July 15, 1952.
Electrical grounding rods. St. Louis Lightning Protection Co. 565,959, Oct. 28; Serial No. 610,189, published Aug. 5, 1952.
Electrical insulators. Mica Insulator Co. 39,410, renewed Dec. 2, 1952. O. G. Oct. 28.
Electrical outlets. R. W. McFarlin. 566,145, Oct. 28; Serial No. 577,279.
Electrical sound reproducing, recording, and amplifying apparatus. Cosmocord Limited. 565,912, Oct. 28; Serial No. 601,097, published Aug. 5, 1952.
Electrical test prods. United Technical Laboratories. 566,160, Oct. 28; Serial No. 599,400.
Electrical wiring devices, electrical outlet boxes, hangers and fittings, etc. Monowatt Incorporated. 565,869–70, Oct. 28; Serial Nos. 581,340–1, published July 29, 1952.
Electrically lighted frames. Curtis Development & Mfg. Co. 566,154, Oct. 28; Serial No. 593,401.
Electrically operated machine. The Woodman Company, Inc. 566,150, Oct. 28; Serial No. 587,518.
Exterminators, Electrically operated moth. Ag Service Co. 566,159, Oct. 28; Serial No. 597,567.
Food mixers, juicers, grinders, etc., Electric. Dormeyer Corporation. 565,862, Oct. 28; Serial No. 576,317, published Oct. 24, 1950.
Grills, Electrically heated. B. B. Lowe. 565,919, Oct. 28; Serial No. 603,693, published July 29, 1952.
Indicating dials for manually actuated rotary electric switches. The Tappan Stove Company. 565,903, Oct. 28; Serial No. 597,982, published July 8, 1952.
Ironing cords, electric extension cords, electric hotplates, etc. John S. Regal & Son, Inc. 566,013, Oct. 28; Serial No. 617,764, published July 29, 1952.
Lamp, Electrically operated floor. Imperial Lamp and Shade Co. 565,888, Oct. 28; Serial No. 591,930, published July 15, 1952.
Lamps, Electric. T. J. Collings. 565,932, Oct. 28; Serial No. 607,121, published July 29, 1952.
Lighting fixtures, Electric. Gotham Lighting Corporation. 565,924, Oct. 28; Serial No. 605,477, published Aug. 5, 1952.
Lighting fixtures, Electric. The Edwin F. Guth Company. 565,824, Oct. 28; Serial No. 526,981, published Aug. 10, 1948.
Molded plastic electrical parts. P. R. Mallory & Co., Inc. 565,964, Oct. 28; Serial No. 610,917, published July 15, 1952.
Portable electric drills and portable electric drill stands, etc. Lindeteves Inc. 566,018, Oct. 28; Serial No. 617,507, published July 29, 1952.
Power-driven switch mechanism. Lear, Incorporated. 566,006, Oct. 28; Serial No. 616,379, published July 8, 1952.
Radio and television receivers. Interseas Electronic Co., Inc. 565,975, Oct. 28; Serial No. 611,428, published Aug. 5, 1952.
Radio receiving sets and parts thereof. Calbest Engineering and Electronics Co. 423,524, Sept. 3, 1946. Republished Oct. 28.
Transformers or ballasts. Sola Electric Company. 566,009, Oct. 28; Serial No. 616,782, published Aug. 5, 1952.
Wiring apparatus, Electrical. Harvey Hubbell, Incorporated. 565,872, Oct. 28; Serial No. 581,484, published Aug. 5, 1952.

CLASS 22

Basketballs. The Sun Rubber Company. 566,095, Oct. 28; Serial No. 622,858, published July 29, 1952.
Dolls. The Doll Shop. 566,070, Oct. 28; Serial No. 621,549, published July 29, 1952.
Fishing lines. The Bevin Wilcox Line Company. 565,857, Oct. 28; Serial No. 574,478, published Dec. 13, 1949.
Fishing lures, Artificial. Hinks Manufacturing Co. 566,069, Oct. 28; Serial No. 621,404, published July 29, 1952.
Fishing reels and fishing lines. French Industries, Inc. 566,062, Oct. 28; Serial No. 621,140, published July 29, 1952.
Fishing-tackle, fish-lines, fishing-reels, etc. South Bend Bait Company. 89,384, re-renewed Dec. 10, 1952. O. G. Oct. 28.
Games, Board. Kardigan Company. 565,918, Oct. 28; Serial No. 602,955, published July 29, 1952.
Toys, Plastic inflatable. Vanguard Corporation. 565,866, Oct. 28; Serial No. 579,239, published July 29, 1952.

CLASS 23

Compression sprayers, Hand operated. H. D. Hudson Manufacturing Company. 565,915, Oct. 28; Serial No. 601,626, published July 22, 1952.
Flexible machinery couplings. Thomas Flexible Coupling Company. 299,599, renewed Dec. 13, 1952. O. G. Oct. 28.
Foundry flasks including dowel pins and flask bars, etc. Truscon Steel Company. 565,972, Oct. 28; Serial No. 611,204, published July 15, 1952.
Internal combustion engines. Fairchild Engine and Airplane Corporation. 565,981, Oct. 28; Serial No. 612,451, published July 8, 1952.
Knives and holder therefor, Set of. Ekco Products Company. 565,865, Oct. 28; Serial No. 578,200, published June 17, 1952.
Lawn edging machines, Electrically operated. E. F. Walker. 565,971, Oct. 28; Serial No. 611,159, published June 24, 1952.
Loom-temples and parts thereof and for parts of looms. Draper Corporation. 298,948, renewed Nov. 15, 1952. O. G. Oct. 28.
Machines for grinding and mixing cattle feed, and disc harrows. Lancaster Engineering Corporation. 566,168, Oct. 28; Serial No. 606,709.
Shallow-well water systems. Robbins & Myers, Inc. 566,045, Oct. 28; Serial No. 620,109, published July 15, 1952.
Slicing machines, Meat. American Slicing Machine Company. 566,046, Oct. 28; Serial No. 620,134, published June 24, 1952.
Tool holder, Lathe. E. P. Pierce. 566,063, Oct. 28; Serial No. 621,166, published July 29, 1952.
Typewriters. B. Kerk. 566,042, Oct. 28; Serial No. 619,882, published July 22, 1952.
Variable speed pulley drive units. J. McEwan. 565,880, Oct. 28; Serial No. 585,595, published July 8, 1952.
Water pumps, Individual, and individual V-belt pulleys. Utility Appliance Corp. 444,688, May 6, 1952. Republished Oct. 28.
Wrenches, Box, combination box and open end wrenches, etc. Lectrolite Corporation. 565,980, Oct. 28; Serial No. 612,403, published June 24, 1952.

CLASS 24

Laundry appliances, Home. Appliance Manufacturing Company. 565,900, Oct. 28; Serial No. 597,485, published June 24, 1952.

CLASS 27

Watchcases. Elgin Giant Watch Case Co. 88,475, re-renewed Sept. 24, 1952. O. G. Oct. 28.
Watchcases and watch-movements. The Rockford Watch Co. Ltd. 87,484, re-renewed July 16, 1952. O. G. Oct. 28.
Watches. Movado Watch Agency, Inc. 434,338, Nov. 18, 1947. Republished Oct. 28.

CLASS 28

Prize cups, symbolic figures, and trophies. International Silver Company. 296,358, renewed Aug. 2, 1952. O. G. Oct. 28.

CLASS 29

Brushes. Solo-Horton Brush Company, Incorporated. 566,144, Oct. 28; Serial No. 576,723.

Impregnated cloths. E. R. Rushton. 566,177, Oct. 28; Serial No. 617,059.
Mops and mop heads. Piedmont Mop Company, Incorporated. 565,920, Oct. 28; Serial No. 604,029, published Aug. 12, 1952.
Paint, varnish, sash-tools, etc. Rennous, Kleinle & Co. 87,367, re-renewed July 9, 1952. O. G. Oct. 28.

CLASS 31

Filtering and collecting bags, Dust. The Hoover Company. 298,728, renewed Nov. 1, 1952. O. G. Oct. 28.

CLASS 32

Bed springs. Leggett & Platt, Inc. 565,838, Oct. 28; Serial No. 560,561, published Aug. 5, 1952.
Chairs and davenports, Upholstered. Kroehler Mfg. Co. 566,087, Oct. 28; Serial No. 622,547, published Aug. 5, 1952.
Display stand for displaying dolls. M. E. Lewis. 566,088, Oct. 28; Serial No. 622,602, published Aug. 5, 1952.
Furniture, Household. The Welman Company. 565,913, Oct. 28; Serial No. 601,346, published Aug. 5, 1952.
Furniture, Upholstered, bedroom furniture, cocktail tables, etc. Kroehler Mfg. Co. 565,922, Oct. 28; Serial No. 604,206, published Aug. 5, 1952.
Hassocks. Protection Products Co. 565,933, Oct. 28; Serial No. 607,140, published Aug. 5, 1952.
Metal spring-wire pads. Flex-O-Lators, Inc. 565,868, Oct. 28; Serial No. 580,780, published Aug. 5, 1952.
Mirrors, Hand, wall mirrors, and mirrors used in connection with home furniture. Hamilton Glass Company, Inc. 565,910, Oct. 28; Serial No. 600,131, published Aug. 5, 1952.
Pillows. J. T. Vlock. 566,067, Oct. 28; Serial No. 621,383, published Aug. 5, 1952.
Seats, chairs, settees, and structural parts thereof. Harris & Tyler Limited. 565,976, Oct. 28; Serial No. 611,607, published Aug. 5, 1952.
Tables, chairs, cabinets, and wood chests, Wood. Anchor Sales Corp. 565,984, Oct. 28; Serial No. 612,987, published Aug. 5, 1952.
Venetian blinds. Andrew Dutton Company. 566,077, Oct. 28; Serial No. 621,875, published July 29, 1952.

CLASS 34

Air conditioning units, Domestic. H. R. Frankle. 566,157, Oct. 28; Serial No. 596,570.
Furnaces, Wood, coal, and oil burning. Jackson and Church Company. 566,143, Oct. 28; Serial No. 573,185.
Ventilators, Louver type. Home Comfort Mfg. Co. 566,161, Oct. 28; Serial No. 602,807.

CLASS 35

Hydraulic machinery packings. Precision Rubber Products Corporation. 566,183, Oct. 28; Serial No. 625,919.
Rubber tread for rubber tires, Anti-skid. Andy Bros. Tire Shop. 566,002, Oct. 28; Serial No. 615,599, published Aug. 5, 1952.
Tires, Pneumatic. Fisk Rubber Company. 38,700, renewed July 29, 1952. O. G. Oct. 28.

CLASS 36

Musical instruments. L. & C. Mayers Co. Incorporated. 566,130, Oct. 28; Serial No. 627,139, published Aug. 5, 1952.
Pianos. Estey Piano Corp. 566,131, Oct. 28; Serial No. 627,259, published Aug. 5, 1952.
Pianos. Estey Piano Corp. 566,132, Oct. 28; Serial No. 628,351, published Aug. 5, 1952.

CLASS 37

Accounting forms. O. F. Bauschard. 565,823, Oct. 28; Serial No. 522,582, published Aug. 12, 1952.
Binders for loose leaf books. Spiral Binding Company, Inc. 565,848, Oct. 28; Serial No. 568,684, published Aug. 5, 1952.
Card-index files, Rotary. Kinetic Novelty Co., Inc. 566,015, Oct. 28; Serial No. 617,254, published Aug. 5, 1952.
Combination shirt board and collar support fabricated from paper. Loroco Industries, Inc. 566,084, Oct. 28; Serial No. 622,341, published July 8, 1952.
Correction fluids. Copy Papers, Inc. 444,728, Oct. 28; Serial No. 487,887, published July 15, 1952.
Covered and bound blank books, trial balance books, memorandum books, etc. Wilson Jones Company. 298,879, renewed Nov. 8, 1952. O. G. Oct. 28.
Desk sets. Gregory Fount-O-Ink Company. 565,851, Oct. 28; Serial No. 570,027, published May 27, 1952.
Filing envelopes, mailing envelopes, filing folders, etc. Wilson Jones Company. 299,671, renewed Dec. 13, 1952. O. G. Oct. 28.
Identification forms. B. Anderson. 565,886, Oct. 28; Serial No. 590,250, published July 15, 1952.
Letterheads, correspondence and mailing envelopes, etc. Mail Order Printing Company. 565,905, Oct. 28; Serial No. 598,736, published July 8, 1952.
Memo pads, pencils, writing pens, etc. Brown & Bigelow. 565,878, Oct. 28; Serial No. 585,310, published July 22, 1952.
Moistureproof and solvent resistant bottle-cap liner material. Irvington Varnish & Insulator Company. 565,855, Oct. 28; Serial No. 573,489, published July 1, 1952.
Packaging divider or pad. Sherman Paper Products Corporation. 565,906, Oct. 28; Serial No. 599,267, published May 20, 1952.
Paper. Mosinee Paper Mills Company. 295,356, renewed June 28, 1952. O. G. Oct. 28.
Paper blank forms. Moore Business Forms, Inc. 565,837, Oct. 28; Serial No. 560,281, published July 8, 1952.
Paper, Blotting. The Albemarle Paper Manufacturing Company. 298,874, renewed Nov. 8, 1952. O. G. Oct. 28.
Paper board, Jacquard. Lane Paper Co., Inc. 565,829, Oct. 28; Serial No. 538,012, published July 1, 1952.
Paper, Bond. Groveton Papers Company. 565,844, Oct. 28; Serial No. 565,619, published Jan. 10, 1950.
Paper, Cellulose wrapping. Newark Paraffine & Parchment Paper Co. 565,899, Oct. 28; Serial No. 597,159, published Nov. 13, 1951.
Paper, Drawing, and bristol board; tracing cloths, etc. The Frederick Post Company. 565,949, Oct. 28; Serial No. 609,174, published Aug. 5, 1952.
Paper, Embossed glassine. Westfield River Paper Co., Inc. 295,805, renewed July 12, 1952. O. G. Oct. 28.
Paper headrest covers. Hubbs Corporation. 565,998, Oct. 28; Serial No. 614,506, published July 8, 1952.
Paper headrest covers for dental chairs. Robert Distributing Company. 566,128, Oct. 28; Serial No. 625,868, published Aug. 5, 1952.
Paper napkins. Bernad Creations, Ltd. 566,008, Oct. 28; Serial No. 616,619, published July 8, 1952.
Paper napkins. White-Washburne Company, Inc. 566,094, Oct. 28; Serial No. 622,764, published July 29, 1952.
Paper, Note, writing paper, and wrapping paper. The Hart Vance Company. 565,973, Oct. 28; Serial No. 611,206, published July 15, 1952.
Paper, Printing, and correspondence envelopes. The Barton, Duer & Koch Paper Company. 566,041, Oct. 28; Serial No. 619,868, published July 8, 1952.
Paper, Printing, and correspondence envelopes. The Barton, Duer & Koch Paper Company. 566,059, Oct. 28; Serial No. 620,953, published July 1, 1952.
Paper, Printing and writing. Badger Paper Mills, Inc. 566,082, Oct. 28; Serial No. 622,100, published Aug. 5, 1952.
Paper, Printing and writing. Tileston and Hollingsworth Company. 565,965, Oct. 28; Serial No. 611,050, published July 1, 1952.
Paper products. Sears, Roebuck and Co. 565,871, Oct. 28; Serial No. 581,362, published July 22, 1952.
Paper, Rolls of air filter. American Air Filter Company, Inc. 565,962, Oct. 28; Serial No. 610,657, published May 20, 1952.
Paper, Self-sealing waxed. Kalamazoo Vegetable Parchment Co. 565,840, Oct. 28; Serial No. 562,201, published May 27, 1952.
Paper tablets. Western Tablet & Stationery Corporation. 444,730, Oct. 28; Serial No. 526,160, published May 20, 1952.
Paper tapes, Perforatable, and copy paper. Commercial Controls Corporation. 565,893, Oct. 28; Serial No. 594,951, published July 29, 1952.
Paper, Toilet. The E. B. Eddy Company. 565,836, Oct. 28; Serial No. 558,113, published Aug. 5, 1952.
Paper, Toilet, waxed paper, household rolls, etc. Sterling Pulp & Paper Company. 565,856, Oct. 28; Serial No. 573,988, published Mar. 13, 1951.
Paper towels and toilet tissue. Crown Zellerbach Corporation. 565,825, Oct. 28; Serial No. 527,134, published Jan. 15, 1952.
Paper, Wrapping, packaging, and boxing. Nox-Rust Chemical Corporation. 565,988–9, Oct. 28; Serial Nos. 613,418–19, published Aug. 5, 1952.
Paper, Writing, typewriter, and printing. Valley Paper Company. 565,826, Oct. 28; Serial No. 527,646, published Apr. 1, 1952.
Paper, Writing, typewriter, and printing. Valley Paper Company. 565,827, Oct. 28; Serial No. 528,007, published May 27, 1952.
Papers, Drawing and tracing. Keuffel & Esser Company. 565,926, Oct. 28; Serial No. 605,800, published July 22, 1952.
Permanent binders and string binders. Bankers Box Company. 566,047, Oct. 28; Serial No. 620,136, published July 1, 1952.
Pencils, lead. Gulf States Sales Corporation. 566,012, Oct. 28; Serial No. 616,955, published July 1, 1952.
Pens, Ball point. Ferber Corporation. 566,025, Oct. 28; Serial No. 618,208, published May 20, 1952.
Pens, Ball-point. Frawley Corporation. 565,961, Oct. 28; Serial No. 610,495, published Dec. 11, 1951.
Pens, Ball point. W. A. Sheaffer Pen Company. 565,873, Oct. 28; Serial No. 582,701, published Aug. 5, 1952.
Pens, Fountain, mechanical pencils and ball point pens. J. F. Sullivan. 566,127, Oct. 28; Serial No. 625,831, published July 29, 1952.
Pens, Fountain, mechanical pencils, and ball point pens. United States Pen Company, Inc. 565,897, Oct. 28; Serial No. 596,311, published May 20, 1952.

Re-usable imitation chamois made of cellulose paper. The D. C. May Co. 565,887, Oct. 28; Serial No. 590,606, published July 15, 1952.
Sales-books. American Sales Book Company, Limited. 86,689, May 28, 1912. Republished Oct. 28.
Stationery. T. V. Allen Company. 566,034, Oct. 28; Serial No. 619,324, published May 20, 1952.

CLASS 38

Books. Almat Publishing Corporation. 566,092, Oct. 28; Serial No. 622,703, published July 29, 1952.
Books. Pocket Books, Inc. 566,090, Oct. 28; Serial No. 622,621, published Aug. 5, 1952.
Books for children, Set of reference. Standard Education Society. 566,124, Oct. 28; Serial No. 624,763, published Aug. 12, 1952.
Calendar and filing envelope, Combination wall. W. T. Van. 566,107, Oct. 28; Serial No. 623,381, published Aug. 12, 1952.
Cartoons. Post-Hall Syndicate, Inc. 566,112, Oct. 28; Serial No. 624,148, published July 22, 1952.
Cartoons or comic strips, Series of. Post-Hall Syndicate, Inc. 566,115–16, Oct. 28; Serial No. 624,152–3, published July 22, 1952.
Cartoons, Series of. Field Enterprises, Inc. 566,032, Oct. 28; Serial No. 619,077, published July 29, 1952.
Charts and tables. Société Omaro. 565,883, Oct. 28; Serial No. 588,829, published July 22, 1952.
Comic strips. Post-Hall Syndicate, Inc. 566,113–14, Oct. 28; Serial No. 624,150–1, published July 22, 1952.
Magazines. Hotpoint Inc. 566,119, Oct. 28; Serial No. 624,337, published Aug. 5, 1952.
Magazine, Legal. The American Law Book Company. 566,051, Oct. 28; Serial No. 620,387, published Aug. 5, 1952.
Maps and photographs. Fairchild Aerial Surveys, Inc. 566,026, Oct. 28; Serial No. 618,292, published Aug. 12, 1952.
Newspaper columns and sections. Bulletin Company. 566,117, Oct. 28; Serial No. 624,327, published Aug. 12, 1952.
Periodical. Ideal Publishing Corporation. 566,023, Oct. 28; Serial No. 617,917, published July 29, 1952.
Periodical. Wichita Allied Printing Trades Council. 566,038, Oct. 28; Serial No. 619,729, published July 29, 1952.
Picture-frame-mounted jig-saw cut-outs. W. E. Doll. 565,999, Oct. 28; Serial No. 614,603, published July 29, 1952.
Pictures of biblical characters and scenes. Designed Products, Inc. 565,963, Oct. 28; Serial No. 610,783, published Aug. 12, 1952.
Pictures of current news interest for reproduction in newspapers. United Feature Syndicate, Inc. 565,992, Oct. 28; Serial No. 614,074, published Aug. 12, 1952.
Publication. Northwest Publications, Inc. 565,941–2, Oct. 28; Serial No. 608,284–5, published Aug. 12, 1952.
Publication, Periodical. Freshmaster Corporation. 566,079, Oct. 28; Serial No. 621,961, published Aug. 5, 1952.
Publication, Periodical. The Kaman Aircraft Corporation. 566,080, Oct. 28; Serial No. 621,968, published July 29, 1952.
Publication, Periodical. C. Mondavi & Sons. 566,004, Oct. 28; Serial No. 615,990, published Aug. 12, 1952.
Publication, Periodical. Weekly Publications, Inc. 566,044, Oct. 28; Serial No. 620,064, published July 29, 1952.
Publication, Periodical trade. Hall Publishing Company. 566,125, Oct. 28; Serial No. 625,318, published Aug. 12, 1952.
Publications and drawings, Educational. N. L. Rooney. 566,016, Oct. 28; Serial No. 617,264, published Aug. 12, 1952.
Publications, Musical. D. Gornston. 565,983, Oct. 28; Serial No. 612,688, published July 29, 1952.
Title of a column printed daily in "The Sun." The Sun Printing & Publishing Association. 289,942, Dec. 15, 1931. Republished Oct. 28.

CLASS 39

Brassières. Wynton Brassiere Co. Inc. 566,102, Oct. 28; Serial No. 623,034, published Aug. 5, 1952.
Clothing, Sport. Stahl-Urban Company. 294,710, renewed June 7, 1952. O. G. Oct. 28.
Coats and suits, Ladies'. A. L. Neiman Co. 566,156, Oct. 28; Serial No. 594,140.
Dresses, dress ensembles, suits, etc., Ladies' and misses'. Davidow, Inc. Sportswear. 566,078, Oct. 28; Serial No. 621,959, published Aug. 5, 1952.
Dresses, suits, pajamas, etc., Women's and children's. Jos. S. Cohen and Sons Co. Inc. 299,025, renewed Nov. 15, 1952. O. G. Oct. 28.
Dresses, Women's and misses'. Albert Rosenblatt & Sons, Inc. 566,105, Oct. 28; Serial No. 623,257, published Aug. 5, 1952.
Girdles. Artistic Foundations, Inc. 566,178, Oct. 28; Serial No. 617,333.
Girdles. Lewel Manufacturing Co., Inc. 566,083, Oct. 28; Serial No. 622,339, published Aug. 5, 1952.
Girdles, and panties. Blair Corset Company, Inc. 566,076, Oct. 28; Serial No. 621,808, published Aug. 5, 1952.
Gloves, Household or garden. The Pioneer Rubber Company. 566,123, Oct. 28; Serial No. 624,757, published Aug. 5, 1952.
Handkerchiefs. Western Bottle Mfg. Co. 298,695, renewed Nov. 1, 1952. O. G. Oct. 28.
Hats, Men's and boys'. Young Brothers. 295,198, renewed June 21, 1952. O. G. Oct. 28.
Knitted articles. Ruepp & Co., Ltd. 444,574, Oct. 2, 1951. Republished Oct. 28.
Shoes, Boy's. Gerberich-Payne Shoe Co. 566,174, Oct. 28; Serial No. 611,837.
Stockings. Joseph Black & Sons Company. 88,729, renewed Oct. 22, 1952. O. G. Oct. 28.
Suits, Men's. Hart Schaffner & Marx. 565,833, Oct. 28; Serial No. 548,588, published Aug. 2, 1949.
Swim suits, swim trunks, sweaters, etc. Catalina, Inc. 566,155, Oct. 28; Serial No. 593,858.
Tights, Cotards, bathing suits, etc., Ladies', misses', and children's. M. I. Kohan, Inc. 566,180, Oct. 28; Serial No. 623,196.
Underwear, Ladies', misses', and children's textile. Pacific Undergarment Co. Inc. 566,122, Oct. 28; Serial No. 624,700, published Aug. 5, 1952.

CLASS 40

Art needlework accessory. David Traum Company, Inc. 566,030, Oct. 28; Serial No. 618,718, published June 3, 1952.
Belting in the nature of findings. Supply Manufacturing Co. Inc. 565,858, Oct. 28; Serial No. 575,608, published June 24, 1952.
Belting in the nature of findings. Supply Manufacturing Co. Inc. 565,863, Oct. 28; Serial No. 576,369, published June 3, 1952.
Buckles. Maid-Rite Novelty Corp. 566,121, Oct. 28; Serial No. 624,694, published Aug. 5, 1952.
Buttons. The Patent Button Company. 566,052, Oct. 28; Serial No. 620,394, published June 24, 1952.
Buttons. The Patent Button Company. 566,053, Oct. 28; Serial No. 620,434, published June 24, 1952.
Closures and fasteners for wearing apparel, shoe rings, etc. Koh-I-Noor Bílovec, Národní Podnik. 566,099, Oct. 28; Serial No. 622,898, published July 1, 1952.
Combs. H. Goodman & Sons, Inc. 566,056, Oct. 28; Serial No. 620,669, published June 24, 1952.
Crochet hooks and knitting needles. C. J. Bates & Sons. 565,934, Oct. 28; Serial No. 607,213, published May 27, 1952.
Device for winding decorative ribbon into hanks. McGee & Willig. 566,000, Oct. 28; Serial No. 614,887, published June 24, 1952.
Dress shields. I. B. Kleinert Rubber Company. 565,966, Oct. 28; Serial No. 611,057, published July 29, 1952.
Dress shields. I. B. Kleinert Rubber Company. 565,968–70, Oct. 28; Serial No. 611,061–3, published July 29, 1952.
Dress shields. I. B. Kleinert Rubber Company. 565,978, Oct. 28; Serial No. 612,051, published June 24, 1952.
Fabric medallions. N. S. Flax. 566,054, Oct. 28; Serial No. 620,498, published July 1, 1952.
Garment fasteners. Hook-King Company. 566,024, Oct. 28; Serial No. 617,962, published Aug. 5, 1952.
Insole tape. Ayrlyte Corporation. 565,850, Oct. 28; Serial No. 569,344, published July 15, 1952.
Laces, embroideries, and narrow woven fabrics. The American Fabrics Company. 565,896, Oct. 28; Serial No. 595,929, published June 24, 1952.
Needle threaders. J. S. Kahn. 566,072, Oct. 28; Serial No. 621,670, published June 24, 1952.
Needles, Hand knitting. Stylofede Corporation. 565,841, Oct. 28; Serial No. 562,283, published June 24, 1952.
Needles, Sewing. Albert M. Goldstein, Inc. 566,003, Oct. 28; Serial No. 615,699, published June 3, 1952.
Nonelectric hair curlers. J. D. Banting. 565,928, Oct. 28; Serial No. 606,361, published July 1, 1952.
Non-electrical hair curlers and barrettes. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y. 566,100, Oct. 28; Serial No. 622,933, published Aug. 5, 1952.
Shoulder pads. M. J. Mantell. 565,990, Oct. 28; Serial No. 613,719, published Nov. 27, 1951.
Waist band devices. I. B. Kleinert Rubber Company. 565,967, Oct. 28; Serial No. 611,060, published June 24, 1952.

CLASS 41

Umbrellas. Federated Department Stores, Inc. 566,120, Oct. 28; Serial No. 624,405, published July 8, 1952.
Umbrellas, parasols, and parts of and fittings, for all such goods. J. W. Forsyth. 565,939, Oct. 28; Serial No. 608,154, published June 24, 1952.

CLASS 42

Cloth, Shade. Columbus Coated Fabrics Corporation. 294,660, renewed June 7, 1952. O. G. Oct. 28.
Fabrics, Cotton, rayon and silk. A. L. Helwith. 345,836, May 11, 1937. New certificate. O. G. Oct. 28.
Piece goods, Woolen. Forstmann & Huffmann Company. 296,655, renewed Aug. 16, 1952. O. G. Oct. 28.
Piece goods, Woolen and rayon. M. Schwartz. 566,175, Oct. 28; Serial No. 616,301.

CLASS 43

Yarn, Cotton. United Hosiery Mills Corporation. 551,345, Nov. 27, 1951. New certificate. O. G. Oct. 28.

CLASS 44

Dental appliances. A. W. Knopf. 566,179, Oct. 28; Serial No. 619,626.
Venous occlusion apparatus. The Burdick Corporation. 566,171, Oct. 28; Serial No. 607,313.

CLASS 45

Soft drinks, Non-alcoholic maltless carbonated. Fruto Beverage Company. 566,163, Oct. 28; Serial No. 603,480.

CLASS 46

Apple juice. Apple Concentrates, Inc. 565,940, Oct. 28; Serial No. 608,232, published July 22, 1952.
Apples and peaches, Fresh. P. J. Madigan. 565,914, Oct. 28; Serial No. 601,551, published July 29, 1952.
Bacon, Sliced, smoked bacon, smoked ham, etc. American Packing & Provision Co. 565,828, Oct. 28; Serial No. 536,483, published July 22, 1952.
Bakery products. Storck Baking Company, Inc. 566,001, Oct. 28; Serial No. 615,582, published July 29, 1952.
Baking powder. Royal Baking Powder Company. 299,621, renewed Dec. 13, 1952. O. G. Oct. 28.
Bread, rolls, sweet yeast rolls, etc. Farm Crest Bakeries, Incorporated. 297,972, renewed Oct. 4, 1952. O. G. Oct. 28.
Bread, Swedish. D. Walsh. 295,172, renewed June 21, 1952. O. G. Oct. 28.
Butter, cottage cheese, ice cream mix, custard mix, etc. Honeoye Falls Cream Products Co., Inc. 565,938, Oct. 28; Serial No. 607,817, published July 29, 1952.
Candies, Chocolate. Aktien-Gesellschaft Vereinigte Berner & Zurcher Chocolade-Fabriken Lindt & Sprungli. 87,306, re-renewed July 9, 1952. O. G. Oct. 28.
Candy. Mars, Incorporated. 298,995, renewed Nov. 15, 1952. O. G. Oct. 28.
Canned corn mush and canned chicken a la king. La Choy Food Prod[illegible], Inc. 296,004, renewed July 19, 1952. O. G. Oct. 28.
Canned corned beef. International Products Corporation. 565,911, Oct. 28; Serial No. 601,050, published July 22, 1952.
Canned evaporated milk. White House Milk Company, Inc. 565,958, Oct. 28; Serial No. 610,154, published Jan. 15, 1952.
Canned fish. Booth Fisheries Corporation. 565,834, Oct. 28; Serial No. 550,015, published Jan. 15, 1952.
Canned, fresh, and fresh frozen fruits and vegetables, canned and bottled tomato juice, etc. Hexton Foods, Inc. 566,055, Oct. 28; Serial No. 620,505, published Aug. 5, 1952.
Canned fruits and canned vegetables. W. F. Assau Canning Co. 88,046, re-renewed Aug. 27, 1952. O. G. Oct. 28.
Canned fruits; canned berries; canned vegetables, etc. General Grocer Company. 565,830, Oct. 28; Serial No. 538,271, published July 29, 1952.
Canned pineapple. Baldwin Packers, Ltd. 565,931, Oct. 28; Serial No. 606,998, published July 22, 1952.
Canned salmon, canned tuna fish, and canned crabmeat. Columbia River Packers Association, Inc. 565,953–4, Oct. 28; Serial Nos. 608,782–3, published July 29, 1952.
Canned salmon, canned tuna fish and canned crabmeat. Columbia River Packers Association, Inc. 565,974, Oct. 28; Serial No. 611,407, published July 22, 1952.
Canned sardines. Seacoast Canning Company. 89,149, re-renewed Nov. 12, 1952. O. G. Oct. 28.
Canned tuna. Coast Fishing Co. 299,367, renewed Nov. 29, 1952. O. G. Oct. 28.
Cheese. Milco. 566,064, Oct. 28; Serial No. 621,279, published July 22, 1952.
Cheese. Ostefabriken Buko Aktieselskab. 565,935, Oct. 28; Serial No. 607,514, published July 22, 1952.
Cheese. Pollio Dairy Products Corporation. 565,889, Oct. 28; Serial No. 592,659, published July 22, 1952.
Chewing gum. Frank H. Fleer Corporation. 565,946, Oct. 28; Serial No. 609,442, published July 22, 1952.
Chocolate creams, chocolate caramels, any fondants, nuts or fruit dipped in chocolate, etc. Sanitary Food Manufacturing Company. 96,998, May 12, 1914. Republished Oct. 28.
Coffee and canned corn. American Stores Company. 565,885, Oct. 28; Serial No. 589,698, published July 22, 1952.
Coffee concentrate, Frozen. Schroeder Products Company, Inc. 565,951, Oct. 28; Serial No. 608,476, published July 22, 1952.
Crackers. Langendorf United Bakeries, Inc. 566,167, Oct. 28; Serial No. 606,383.
Cures for meat products, emulsifiers for meat products, seasonings for meat products. Meat Industry Suppliers, Inc. 565,901, Oct. 28; Serial No. 597,709, published July 22, 1952.
Eggs. California Central Creameries. 88,840, renewed Oct. 29, 1952. O. G. Oct. 28.
Eggs. Swift and Company. 38,576, re-renewed July 8, 1952. O. G. Oct. 28.
Feed, Dairy. Ralston Purina Company. 565,854, Oct. 28; Serial No. 572,920, published July 22, 1952.
Feed, Horse. National Warehouse and Storage Company. 86,437, May 7, 1912. Republished Oct. 28.
Feeds. Sherwood Feed Mills, Inc. 565,859, Oct. 28; Serial No. 575,675, published July 22, 1952.
Flour. Pillsbury Flour Mills Company. 296,111, renewed July 26, 1952. O. G. Oct. 28.
Flour. Pillsbury Flour Mills Company. 296,115, renewed July 26, 1952. O. G. Oct. 28.
Flour, Self-rising wheat. Pfeffer Milling Company. 565,875, Oct. 28; Serial No. 584,508, published Sept. 18, 1951.
Flour, Wheat. Federal Mill, Inc. 296,439, renewed Aug. 9, 1952. O. G. Oct. 28.
Food, Cat. Gaines Animal Foods Limited. 565,895, Oct. 28; Serial No. 595,599, published July 29, 1952.
Fruits, Fresh deciduous. Western Fruit & Produce Co., Inc. 565,874, Oct. 28; Serial No. 584,177, published July 22, 1952.
Grains, Dried distillers. Commercial Solvents Corporation. 566,071, Oct. 28; Serial No. 621,618, published July 22, 1952.
Ice cream bars. Belvend Mfg. Co., Inc. 565,993–4, Oct. 28; Serial Nos. 614,191–2, published July 22, 1952.
Lettuce, Fresh. Williams Farms Company, Inc. 566,050, Oct. 28; Serial No. 620,283, published Aug. 5, 1952.
Macaroni and vermicelli. Fratelli Volello, S. p. a. 566,068, Oct. 28; Serial No. 621,402, published July 22, 1952.
Machine dehydrated macrocystis-pyrifera, for use as a food. Philip R. Park, Inc. 565,853, Oct. 28; Serial No. 572,688, published Aug. 5, 1952.
Mayonnaise. Private Brands, Inc. 293,245, renewed Apr. 19, 1952. O. G. Oct. 28.
Milk whipping preparation, Dehydrated and sweetened. M & R Dietetic Laboratories, Inc. 565,986, Oct. 28; Serial No. 613,227, published July 22, 1952.
Pickles. D. Neiman. 566,073–4, Oct. 28; Serial Nos. 621,767–8, published July 22, 1952.
Pork skins, Fried. Tru-Value Food Products. 565,839, Oct. 28; Serial No. 560,666, published July 29, 1952.
Rice. River Brand Rice Mills, Inc. 565,831, Oct. 28; Serial No. 538,815, published July 22, 1952.
Seafoods, Frozen fresh. SeaPak Corporation. 566,169–70, Oct. 28; Serial Nos. 606,727–8.
Syrup, Cane and maple, honey, sweet pickles, etc. R. J. Stenzel. 566,037, Oct. 28; Serial No. 619,590, published July 29, 1952.
Vanilla beans and tonka beans used for food flavoring purposes; vanilla flavors, etc. Dodge & Olcott, Inc. 565,985, Oct. 28; Serial No. 613,057, published July 22, 1952.
Wheat-flour. Federal Milling Company. 87,615, renewed July 30, 1952. O. G. Oct. 28.
Wheat-flour. New Prague Flouring Mill Company. 39,185, re-renewed Nov. 4, 1952. O. G. Oct. 28.

CLASS 47

Champagne. Kunkelmann & Cie. Societe Anonyme. 293,171, renewed Apr. 12, 1952. O. G. Oct. 28.
Sherry-wine. Alex D. Shaw & Co. 87,012, re-renewed June 18, 1952. O. G. Oct. 28.
Wine, California. Goldberg, Bowen & Co. 87,204, re-renewed July 2, 1952. O. G. Oct. 28.
Wines. T. G. Bright & Co. Limited. 565,864, Oct. 28; Serial No. 576,621, published July 8, 1952.

CLASS 48

Beer. Blatz Brewing Company. 565,877, Oct. 28; Serial No. 584,851, published July 15, 1952.
Beer. Columbia Breweries, Inc. 565,832, Oct. 28; Serial No. 542,288, published July 15, 1952.

CLASS 49

Cordials, Records & Goldsborough, Incorporated. 344,228, Feb. 16, 1937. Republished Oct. 28.
Liqueurs, brandy, alcoholic cocktails and alcoholic aperitifs. A. E. Holm. 566,165, Oct. 28; Serial No. 603,980.
Whiskey. Jas. E. Pepper & Company. 321,234, Jan. 22, 1935. Republished Oct. 28.
Whiskey, gin and brandy. Schenley Products Company. 347,147, June 15, 1937. Republished Oct. 28.

CLASS 50

Detachable letter sign. Adler Silhouette Letter Co. 566,172, Oct. 28; Serial No. 607,570.
Thin, transparent sheeting. Eastman Kodak Company. 293,954, May 10, 1932. New certificate. O. G. Oct. 28.

CLASS 51

Face creams, cleansing creams, massage creams, etc. Paristyle Novelty Co. Inc. 296,344, renewed Aug. 2, 1952. O. G. Oct. 28.
Hair tonics, wave sets, etc. Wildroot Company, Inc. 299,653, renewed Dec. 13, 1952. O. G. Oct. 28.
Nail enamel, lipsticks, face rouge, etc. Revlon Products Corporation. 565,884, Oct. 28; Serial No. 589,531, published July 22, 1952.

Neutralizing cream solution for use in connection with permanent waving of hair. Artistic Beauty Products Company. 565,890, Oct. 28; Serial No. 593,854, published July 22, 1952.
Perfume. Chanel, Inc. 299,640, renewed Dec. 13, 1952. O. G. Oct. 28.
Soaps, Shaving and toilet. The J. B. Williams Company. 87,832, re-renewed Aug. 6, 1952. O. G. Oct. 28.
Soaps, Shaving and toilet. The J. B. Williams Company. 87,833, re-renewed Aug. 6, 1952. O. G. Oct. 28.

CLASS 52

Chemical preparation. The Walterisation Company Limited. 566,019, Oct. 28; Serial No. 617,639, published Aug. 5, 1952.
Shampoo, Liquid hair. Takara Laboratories Corporation. 565,979, Oct. 28; Serial No. 612,280, published Aug. 5, 1952.
Soaps. Annie Oakley Enterprises. 565,977, Oct. 28; Serial No. 611,911, published Aug. 5, 1952.

CLASS 100

Restaurant services. Little Tavern Shops, Inc. 566,135, Oct. 28; Serial No. 586,925, published Aug. 5, 1952.

CLASS 101

Employment agency services. P. F. Hart. 566,142, Oct. 28; Serial No. 611,843, published Aug. 5, 1952.
General advertising and sales promotional services. H. A. Gardner. 566,141, Oct. 28; Serial No. 603,155, published Aug. 5, 1952.

CLASS 102

General banking services. First National Bank in St. Louis. 566,140, Oct. 28; Serial No. 599,867, published Aug. 5, 1952.

CLASS 103

Automobile cleaning and polishing service. H. D. T. Company Factors, Inc. 566,138, Oct. 28; Serial No. 596,915, published Aug. 5, 1952.

CLASS 105

Air transportation of passengers, freight and mail. Western Air Lines, Inc. 566,133, Oct. 28; Serial No. 494,877, published Aug. 5, 1952.
Renting of parcel checking lockers. American Locker Company, Inc. 566,136, Oct. 28; Serial No. 590,003, published Aug. 5, 1952.
Transporting packing-house products. Mohawk Motor Lines, Inc. 566,184, Oct. 28; Serial No. 583,161.
Transporting packing-house products. Mohawk Motor Lines, Inc. 566,185, Oct. 28; Serial No. 583,163.

CLASS 106

Finishing and decorating printed and blank sheet paper and paper products material of others. Velvetone Finishing Corporation. 566,137, Oct. 28; Serial No. 592,954, published Aug. 5, 1952.
Finishing of textile fabrics. The United States Finishing Company. 566,134, Oct. 28; Serial No. 554,632, published Aug. 5, 1952.
Photographic services. Encore, Inc. 566,139, Oct. 28; Serial No. 599,622, published Aug. 5, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Creary, Daniel W., assignee: *See*—
Sopris, Robley F.
Cresswell Roll Forming Company, Limited, assignee: *See*—
Kinghorn, Charles M.
Kinghorn, Charles M., Port Chester, N. Y., assignor to Cresswell Roll Forming Company, Limited, Montreal, Quebec, Canada. Clapboard unit for wall coverings. Re. 23,568, Oct. 28.
Sopris, Robley F., Cuernavaca, Mexico, assignor, by mesne assignments, to D. W. Creary, Portland, Oreg. Device for inserting bolts in concrete. Re. 23,569, Oct. 28.

LIST OF PLANT PATENTEES

Garabedian, John M., Fresno, Calif. Peach tree. 1,141, Oct. 28.

LIST OF DESIGN PATENTEES

Aktiebolaget Separator, assignee: *See*—
Aller, Conrad F.
Åller, Conrad F., assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal separator. 168,013, Oct. 28.
Armbrust, Gottlob, Providence, R. I. Ornamental chain. 168,014, Oct. 28.
Bergier, Arnold H., New York, N. Y., assignor to Flex-Art Inc., Rutherford, N. J. Toy animal figure or the like. 168,015, Oct. 28.
Bermudez, Jaime D. L., Mexico City, Mexico. Tablespoon or similar article. 168,016, Oct. 28.
Birtman Electric Company, assignee: *See*—
Karstadt, Clarence.
Braatz, Clarence W., assignor to Durant Manufacturing Co., Milwaukee, Wis. Desk tally. 168,017, Oct. 28.
Burroughs Adding Machine Company, assignee: *See*—
Wockenfuss, William.
Carla Hosiery Co., assignee: *See*—
Scott, Charles A.
Cohn, Leonard R., New York, N. Y. Detachable slide dental mirror. 168,018, Oct. 28.
Coners, Thomas E.: *See*—
Morris, Curtis T., and Coners.
Coro, Inc., assignee: *See*—
Katz, Adolph.
Cramer, Willis B., assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio. Toilet bowl. 168,019, Oct. 28.
Davis, Joe L., Jr., Magnolia, Ark. Combined can and bottle opener, scaler, and screw driver. 168,020, Oct. 28.
De Hymel, Jean, Pasadena, Calif. Infant feeding spoon. 168,021, Oct. 28.
De Lano, Artus D., assignee: *See*—
Mark, Irving.
Delzell, Harold W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. 168,022, Oct. 28.
Dragonetti, Anthony L., assignor to Scammel China Company, Trenton, N. J. Plate. 168,023, Oct. 28.
Durant Manufacturing Co., assignee: *See*—
Braatz, Clarence W.
Edison, Lionel, New York, N. Y. Holder for desk articles. 168,025, Oct. 28.
Evans, Robert P., Westwood, assignor to Visual Research Incorporated, Boston, Mass. Visor for spectacles or similar articles. 168,024, Oct. 28.
Flex-Art Inc., assignee: *See*—
Bergier, Arnold H.
Fornoff, Henry G., Los Angeles, Calif. Fry pan cover. 168,026, Oct. 28.
Garrett, Arthur O., San Marino, Calif. Desk. 168,027, Oct. 28.
Garrett, Arthur O., San Marino, Calif. Desk. 168,028, Oct. 28.
Goodrich, B. F., Company, The, assignee: *See*—
Delzell, Harold W.
Halliniewski, John, Irvington, N. J. Nail clip. 168,029, Oct. 28.
Harnischfeger Corporation, assignee: *See*—
Klingner, Carl E.
Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire. 168,030, Oct. 28.
Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Paul E.
Hedu, Jon, assignor to The Watertown Manufacturing Company, Watertown, Conn. Dish. 168,031, Oct. 28.
Higginson, George J., Bronxville, N. Y., assignor to Johnson Bros. (Hanley) Limited, Hanley, England. Plate or similar article. 168,032, Oct. 28.
House, Thomas B., assignor of one-half to H. H. Prall, Danville, Ky. Dripless pitcher. 168,033, Oct. 28.
Ish-Shalom, Samu-El, New York, N. Y. Set of ornamental initials for spectacle fronts. 168,034, Oct. 28.
Jacobs, Nan, Topeka, Kans. Clothes sprinkler. 168,035, Oct. 28.
Johnson Bros. (Hanley) Limited, assignee: *See*—
Higginson, George J.
Jones, Basil E., Flossmoor, and C. V. Norby, assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway vehicle. 168,036, Oct. 28.
Karstadt, Clarence, Glen Ellyn, Ill., assignor to Birtman Electric Company. Food mixer body. 168,037, Oct. 28.
Kather, Alfred C., Los Angeles, Calif. Combined cigarette stand and holder. 168,038, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,039, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,040, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,041, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,042, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,043, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,044, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,045, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,046, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,047, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,048, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 168,049, Oct. 28.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 168,050, Oct. 28.
Kenmar Manufacturing Company, The, assignee: *See*—
Maurer, Howard W.
Klingner, Carl E., Medicine Lake, Minn., assignor to Harnischfeger Corporation, Milwaukee, Wis. Display stand. 168,051, Oct. 28.
Knapp-Monarch Company, assignee: *See*—
Moore, Walter E.
Koplar, Alan E., Chicago, Ill. Clock. 168,052, Oct. 28.
Laforte, Michael J., Park Ridge, assignor to Vaughan Mfg. Co., Chicago, Ill. Folding can and bottle opener. 168,053, Oct. 28.
La Rosa, Stefano, Woodhaven, assignor to V. La Rosa & Sons, Inc., Brooklyn, N. Y. Lasagna macaroni. 168,054, Oct. 28.
La Rosa, V., & Sons, Inc., assignee: *See*—
La Rosa, Stefano.

Lockheed Aircraft Corporation, assignee: *See*—
Margwarth, John A.
Lundy, James V., Edgewood, R. I., assignor of one-half to J. H. Warner, Hartford, Conn. Cycle saddle. 168,055, Oct. 28.
Lyon, George A., Detroit, Mich. Wheel cover member or similar article. 168,056, Oct. 28.
Mansfield Sanitary Pottery, Inc., assignee: *See*—
Cramer, Willis B.
Margwarth, John A., Sherman Oaks, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Visor for pilots' helmets. 168,057, Oct. 28.
Mark, Irving, Chicago, Ill., assignor to A. D. De Lano, Battle Creek, Mich. Combination lamp and display device. 168,058, Oct. 28.
Maurer, Howard W., assignor to The Kenmar Manufacturing Company, East Palestine, Ohio. Sofa. 168,059, Oct. 28.
McDevitt, Martha M., Atlanta, Ga. Lamp. 168,060, Oct. 28.
Moore, John C., Los Angeles, Calif. Fork. 168,061, Oct. 28.
Moore, Max E., Houston, Tex. Awning. 168,062, Oct. 28.
Moore, Walter E., assignor to Knapp-Monarch Company, St. Louis, Mo. Food mixer. 168,063, Oct. 28.
Morris, Curtis T., and T. E. Coners, assignors, by mesne assignments, to RPM Manufacturing Company, Lamar, Mo. Rotary mower housing. 168,064, Oct. 28.
Norby, Clarence V.: *See*—
Jones, Basil E., and Norby.
Paine, Herman, Muncie, Ind. Combined parking lamp and mirror. 168,065, Oct. 28.
Perry, Frank R., Los Angeles, Calif. Combined clock, lamp, and vase. 168,066, Oct. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Pin clip or the like. 168,067, Oct. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 168,068, Oct. 28.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 168,069, Oct. 28.
Prall, Hazel H., assignee: *See*—
House, Thomas B.
Pullman-Standard Car Manufacturing Company, assignee: *See*—
Jones, Basil E., and Norby.
RPM Manufacturing Company, assignee: *See*—
Morris, Curtis T., and Coners.
Rohlfing, Christian H., St. Charles, Mo. Portable communion set case. 168,070, Oct. 28.
Ruyle, Karl H., Manitou Springs, Colo. Game board for use with marbles. 168,071, Oct. 28.
Savitz, Sol, Philadelphia, Pa. Stocking. 168,072, Oct. 28.
Scammel China Company, assignee: *See*—
Dragonetti, Anthony L.
Scott, Charles A., assignor to Carla Hosiery Co., Philadelphia, Pa. Stocking. 168,073, Oct. 28.
Symington, Thomas R., Baltimore, Md. Bracket or the like. 168,074, Oct. 28.
Thorne, Henry H., Chicago, Ill. Lady's suspender belt. 168,075, Oct. 28.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Turiansky, Herman, New York, N. Y. Shoe or similar article. 168,076, Oct. 28.
Turiansky, Herman, New York, N. Y. Shoe or similar article. 168,077, Oct. 28.
Turiansky, Herman, New York, N. Y. Shoe or similar article. 168,078, Oct. 28.
Turiansky, Herman, New York, N. Y. Shoe or similar article. 168,079, Oct. 28.
Turiansky, Herman, New York, N. Y. Shoe or similar article. 168,080, Oct. 28.
Tylon, Samuel, Cleveland, Ohio. Ring display box. 168,081, Oct. 28.
Vaughan Mfg. Co., assignee: *See*—
Laforte, Michael J.
Visual Research Incorporated, assignee: *See*—
Evans, Robert P.
Warner, Julius H., assignee: *See*—
Lundy, James V.
Watertown Manufacturing Company, The, assignee: *See*—
Hedu, Jon.
Wilson, Forest, Chicago, Ill. Sofa bed. 168,082, Oct. 28.
Wockenfuss, William, Brooklyn, N. Y., assignor to Burroughs Adding Machine Company, Detroit, Mich. Print unit for printing machines. 168,083, Oct. 28.
Zon, Louis A., Buffalo, N. Y. Combined food and beverage vending station. 168,084, Oct. 28.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 28TH DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbenhouse, Ralph P., East Paterson, assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Composite sync dissector. 2,615,979, Oct. 28.
Abbott Laboratories, assignee: *See*—
Fields, Mack R.
Ackley, Raymond E., Evanston, assignor to W. F. Hall Printing Company, Chicago, Ill. Gluing device. 2,615,422, Oct. 28.
Adams, Eli J., Springfield, Mo. Hydraulic hoist. 2,615,584, Oct. 28.
Adams, Francis V.: *See*—
Brand, Samuel, and Adams.
Adams, Marjory, Laguna Beach, Calif. Portable protective screen and carrier therefor. 2,615,459, Oct. 28.
Adams, Orlando P., McKeesport, Pa., and R. G. Mayer, Hendersonville, N. C., assignors to United States Steel Company. Internal pipe aligning clamp. 2,615,413, Oct. 28.
Adams, Orlando P., McKeesport, Pa., and R. G. Mayer, Hendersonville, N. C., assignors to United States Steel Company. Internal pipe aligning clamp. 2,615,414, Oct. 28.
Adcock, MacDonald: *See*—
Marston, Arthur E., and Adcock.
Adlake Company, The, assignee: *See*—
Pressnall, Charles A.
Adler, Julius, Chicago, Ill. Producing random color patterns. 2,615,270, Oct. 28.
Adler, Robert, Chicago, Ill., assignor to Zenith Radio Corporation. Converter. 2,616,033, Oct. 28.
Adler, Robert, Chicago, Ill., assignor to Zenith Radio Corporation. Radio receiving apparatus. 2,616,034, Oct. 28.
Adler, Robert, Chicago, Ill., assignor to Zenith Radio Corporation. Signal translating apparatus. 2,616,036, Oct. 28.
Adler, Robert, and J. G. Spracklen, Chicago, Ill., assignors to Zenith Radio Corporation. Radio receiver employing a single tube amplifier-converter. 2,616,035, Oct. 28.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Rehberg, Chessie E.
Air Preheater Corporation, The, assignee: *See*—
Hodson, Peter, and Klemperer.
Air Reduction Company, Incorporated, assignee: *See*—
Anderson, Nelson E.
Hughey, Howard G.
Senesky, John S.
Thorp, Clark E., and Panula.
Aktiebolaget Astra, Apotekarnes Kemiska Fabriken, assignee: *See*—
Dahlbom, Johan R., and Ekstrand.
Albrecht, Alexander J., West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y. Sequential tripping mechanism control for multiunit offset presses. 2,615,393, Oct. 28.
Albrecht, August H., deceased, La Habra, Calif.: E. V. Albrecht, administratrix. Electrical power line warning device for vehicles with extended booms. 2,615,969, Oct. 28.
Albrecht, Esther V., administratrix: *See*—
Albrecht, August H.
Alcorn, Robert L., Jr., assignor to Chambersburg Engineering Company, Chambersburg, Pa. Forging apparatus and control thereof. 2,615,306, Oct. 28.
Alertronic Protective Corporation of America, The, assignee: *See*—
Bagno, Samuel M.
Alexander, Mary M., Los Angeles, Calif. Perfume dispensing implement. 2,615,758, Oct. 28.
Allan, Benjamin W.: *See*—
Davis, Wilmer O., Roseman, Allan, and Neptune.
Allard, Gerard A., Schenectady, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Atomic air burst direction finder. 2,615,249, Oct. 28.
Alldredge, Marshall H., Detroit, and M. P. Graham, Grosse Pointe, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio. Joint construction. 2,615,737, Oct. 28.
Allen, Claire M.: *See*—
Allen, Paul M. and C. M.
Allen, Edward M., Wadsworth, Ohio, assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Production of isopropyl N-phenyl carbamate. 2,615,916, Oct. 28.
Allen, Oliver L., Riverside, assignor to Electrolux Corporation, Old Greenwich, Conn. Rearwardly discharging tank type suction cleaner. 2,615,531, Oct. 28.
Allen, Paul M. and C. M., Chicago, Ill. Box top guard. 2,615,239, Oct. 28.
Allen, Roy O., Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y. Throttle valve mechanism. 2,615,674, Oct. 28.
Allert, Berthold, East St. Kilda, Victoria, Australia. Industrial bath furnace. 2,615,702, Oct. 28.
Alley, Leslie E., assignee: *See*—
Granberg, Albert J.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Garde, Aage.
Gynt, Sven.
American Bitumuls & Asphalt Company, assignee: *See*—
Manzer, Donald N.
McCoy, Paul E.
American Blower Corporation, assignee: *See*—
Simmons, Lance L.
American Brake Shoe Company, assignee: *See*—
Olson, Walter J.
American Can Company, assignee: *See*—
White, Arthur J.
American Cyanamid Company, assignee: *See*—
Goldman, Angela A., and Waller.
American Defibrator Inc., assignee: *See*—
Messing, Hjalmar S.
American Phenolic Corporation, assignee: *See*—
Klostermann, Curt W.
American Steel Foundries, assignee: *See*—
Flesch, John E.
American Viscose Corporation, assignee: *See*—
Crawley, William P.
McDermott, Henry J.
Amico, Salvatore F., East Boston, assignor to Sylvania Electric Products Inc., Salem, Mass. Crystal amplifier device. 2,615,965, Oct. 28.
Anderson, Fred G., Milford, Conn., assignor to General Electric Company. Oscillating electric fan and power supply means therefor. 2,615,619, Oct. 28.
Anderson, Nelson E., Berkeley Heights, N. J., assignor to Air Reduction Company, Incorporated. Electrode holder for use in inert gas-shielded arc welding. 2,616,017, Oct. 28.
Anderson, Walter A., Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y. Rebound preventing means for differential actuators. 2,615,622, Oct. 28.
Anger, Ernest G., Wauwatosa, and R. C. Mierendorf, Milwaukee, Wis., assignors to Square D Company, Detroit, Mich. Nonrepeat control circuit. 2,616,041, Oct. 28.
Archer, Sydney, Albany, assignor to Sterling Drug Inc., New York, N. Y. 3,5-diiodo-4-pyridylmercapto-carboxylic acids and their preparation. 2,615,895, Oct. 28.
Ardis, Alan E., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with monoolefins. 2,615,865, Oct. 28.
Army, United States of America as represented by the Secretary of, the, assignee: *See*—
Fieser, Louis F., and Hershberg.
Minor, Francis W., Sookne, Harris, and Pyle.
Arnaud, Henri, Paris, France. Instantaneous heating of a fluid circulating in a tube. 2,616,022, Oct. 28.
Arnold, Lionel K.: *See*—
Sweeney, Orland R., Brown and Arnold.
Arvin Industries, Inc., assignee: *See*—
Ludlow, Edmund.
Ascoli, Enzo, Yverdon, assignor to Paillard S. A., Sainte-Croix, Switzerland. Changing the direction of carriage movements in typewriters. 2,615,546, Oct. 28.
Askania Regulator Company, assignee: *See*—
Glass, Paul.
Jacques, Stanley A.
Aspenleiter, Joseph W., Calendonia, N. Y. Remote-control device for outboard motors. 2,615,418, Oct. 28.
Atkins, Arthur A., Coventry, H. M. Averns, Allesley, Coventry, and A. Walker, Coventry, assignors to Courtaulds Limited, London, England. Creel. 2,615,653, Oct. 28.
Atlantic Refining Company, The, assignee: *See*—
Thompson, Kenneth M.
Atwood, Lyle C., and H. W. Clay, assignors to Atwood Vacuum Machine Company, Rockford, Ill. Bicycle kick stand. 2,615,729, Oct. 28.
Atwood Vacuum Machine Company, assignee: *See*—
Atwood, Lyle C., and Clay.

Automatic Electric Laboratories, Inc., assignee: *See*—
Herrick, Roswell H.
McCreary, Harold J.

Avco Manufacturing Corporation, assignee: *See*—
Bussard, Emmery J. H.
Crawford, William R.

Averill, Seward J., Boston, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with halogenated butadiene-1,3 hydrocarbons. 2,615,872, Oct. 28.

Averill, Seward J., Boston, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with aliphatic conjugated diolefins. 2,615,873, Oct. 28.

Averns, Harry M.: *See*—
Atkins, Arthur A., Averns and Walker.

Axel, Benjamin, Roslyn Heights, assignor to Tru-Fit Company, New York, N. Y. Self-adjusting finger ring. 2,615,314, Oct. 28.

Ayars, Ernest J.: *See*—
Davis, George F., and Ayars.

Backhouse, Headley T., Sunningdale, England. Sheet separating machine. 2,615,713, Oct. 28.

Bacsik, George J., Bayonne, N. J., assignor to Standard Oil Development Company. Apparatus for separating two-phase mixtures. 2,615,792, Oct. 28.

Bagno, Samuel M., Astoria, assignor to The Alertronic Protective Corporation of America, New York, N. Y. Dummy intruder for intruder detection systems. 2,615,970, Oct. 28.

Bahner, Carl T., Jefferson City, Tenn. Conversion of nitroamines to lower amines. 2,615,920, Oct. 28.

Bailey Meter Company, assignee: *See*—
Johnson, Clarence.

Bailey, Robert S., Bayside, assignor to International Standard Electric Corporation, New York, N. Y. Automatic frequency control. 2,616,049, Oct. 28.

Baisel, Edwin C., assignor to Delany Realty Corporation, New York, N. Y. Silent closing pilot-operated valve. 2,615,467, Oct. 28.

Baker, Benjamin P., Turtle Creek, and E. Frisch, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Compressed gas circuit interrupter. 2,616,008, Oct. 28.

Ball, Harold W., and F. F. Stange, assignors to Foster Machine Company, Westfield, Mass. Article sorting conveyer unit. 2,615,566, Oct. 28.

Balogh, Roy O., and E. G. Humpal, Cleveland, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo. Extension ladder and lock therefor. 2,615,609, Oct. 28.

Bancroft, Charles, New Canaan, Conn. Steering mechanism for three-wheel vehicles. 2,615,727, Oct. 28.

Barber-Colman Company, assignee: *See*—
Drake, Russell P.
Greenlee, Theodore K.

Barger, George K., assignee: *See*—
Jones, Lyman L.

Barling, Leslie C., and G. R. Beith, Johannesburg, Transvaal, Union of South Africa. Float-operated mechanism. 2,615,174, Oct. 28.

Barnes, Byron H., San Marino, and B. S. Minor, Whittier, Calif. Slush pump piston. 2,615,769, Oct. 28.

Barnes, William E.: *See*—
Chaney, Preston E., and Barnes.

Barras, Herbert, Baldwin, La. Drain digger and cleaner. 2,615,263, Oct. 28.

Barsam, Arthur, Jr., Los Angeles, Calif. Reel and adapter therefor. 2,615,643, Oct. 28.

Bartes, August, Jr.: *See*—
Farrell, Robert A., Mueller and Bartes.

Bartleman, Richard, San Francisco, Calif. Tool rack. 2,615,577, Oct. 28.

Basic Refractories, Inc., assignee: *See*—
Matirko, Chester A.

Baxter, Kirby, assignor, by mesne assignments, of one-half to E. M. White, Cleveland, Ohio. Safety ladder bracket. 2,615,665, Oct. 28.

Bearup, Roswell D., Colorado Springs, Colo. Woodsawing machine and shaper attachment therefor. 2,615,479, Oct. 28.

Beautense, M Georges, New York, N. Y. Variable time sequential operated switch. 2,616,000, Oct. 28.

Beck, Horace C., assignee: *See*—
Galusha, Earl E.

Beck, Howard G., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Weather strip and refrigerator gasket. 2,615,212, Oct. 28.

Becker, Philip D., Bingham, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Hubcap. 2,615,759, Oct. 28.

Bedford, William A., Jr., North Scituate, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Buckle for straps and the like. 2,615,223, Oct. 28.

Beith, George R.: *See*—
Barling, Leslie C., and Beith.

Belsieff, James F., Cologny, near Geneva, assignor to Societe Anonyme des Usines Jean Gallay, Geneva, Switzerland. Laundering machine. 2,615,320, Oct. 28.

Bell Aircraft Corporation, assignee: *See*—
Young, Arthur M., and Kelley.

Bell, Dora L.: *See*—
Olpin, Henry C., and Bell.

Bell & Howell Company, assignee: *See*—
Johnson, Elmer L.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Clarke, Walter J.
Goodall, William M.
Gooderham, John W.
Hague, Alfred E.
Malthaner, William A., Newby, and Vaughan.
Means, Winthrop J.
McLean, David A.

Beloit Iron Works, assignee: *See*—
Hornbostel, Lloyd.

Bemis Bro. Bag Company, assignee: *See*—
Brady, Charles V., and Ottinger.

Bendix Aviation Corporation, assignee: *See*—
Deardorff, Clinton E., and Meddock.
Guillot, Philip J., and Karp.
Karp, Harry R., and Blanchard.
Meddock, Alvin A.
Winkler, Albert H.

Benning, Anthony F., Woodstown, and E. G. Young, Clarksboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing organic compounds containing fluorine. 2,615,926, Oct. 28.

Benson, Harold R., Maywood, assignor to NuArc Company, Chicago, Ill. Arc lamp. 2,616,059, Oct. 28.

Bergan, Martin D., Westfield, and M. A. Graham, assignors to The Thomas & Betts Co., Elizabeth, N. J. Electrical clasp connector. 2,615,736, Oct. 28.

Berger, Frederick J., assignor to Doran Brothers, Incorporated, Danbury, Conn. Pouncing machine with heated grease pad. 2,615,600, Oct. 28.

Bergstein, Samuel, Cincinnati, Ohio. Apparatus for assembling multiple part egg containers and the like. 2,615,378, Oct. 28.

Berner, Erling, Gothenburg, Sweden. Sound-absorbing board with holes containing debris material. 2,615,525, Oct. 28.

Berry, Clarence T., deceased, Augusta, Wis., O. Berry, administratrix of said Clarence T. Berry. Lubricating apparatus. 2,615,442, Oct. 28.

Berry, Jack R., assignor to The Buckeye Incubator Company, Springfield, Ohio. Double walled fountain. 2,615,425, Oct. 28.

Berry, Orofino, administratrix: *See*—
Berry, Clarence T.

Betner, Thomas E., and J. R. Townsend, Wayne, Pa., assignors to Sonoco Products Company. Bobbin. 2,615,650, Oct. 28.

Bettendorf Company, The, assignee: *See*—
Kottmann, Arthur A.

Beyer, Frank A., and R. A. Bradley, Springfield, Mo., assignors, by mesne assignments, to Trailmobile Inc. Conveyer system for vehicles. 2,615,587, Oct. 28.

Bickley, Everett H., Bala-Cynwyd, Pa. Magnetic air valve. 2,615,470, Oct. 28.

Bindley, James McK., East Cleveland, Ohio. Ball and socket mounting for mirrors and the like. 2,615,368, Oct. 28.

Birch, Herbert M., Bethesda, Md. Hat retainer means. 2,615,452, Oct. 28.

Birch, William G., Middleton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for lasting, sewing, and trimming shoes. 2,615,186, Oct. 28.

Bishop, Richard B., Haddonfield, and W. I. Denton, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Desulfurization of hydrocarbon mixtures with nickel carbonyl. 2,615,831, Oct. 28.

Bisley, William F., Oak Park, Ill., assignor to Dormeyer Corporation. Household food mixer. 2,615,691, Oct. 28.

Biswell, Charles B., Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Color stabilized N,N'-di-(sec.-butyl)-p-phenylenediamine. 2,615,919, Oct. 28.

Bittner, Adam, London, England, assignor to Cyclomat Dominion Corporation Limited, Douglas, Isle of Man. Cyclone disintegrator. 2,615,637, Oct. 28.

Black, James J., Cincinnati, Ohio, assignor, by mesne assignments, to Trailmobile Inc. Extruded floor section for refrigerator vehicles. 2,615,751, Oct. 28.

Blackburn, Andrew R., and R. E. Steele, Columbus, Ohio, assignors to Ram, Inc., Detroit, Mich. Mold and making molds. 2,615,229, Oct. 28.

Blackmon, Truett M., Sherman Oaks, and F. D. Porter, Venice, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Weight and balance indicator. 2,615,330, Oct. 28.

Blake, William T., Fort Worth, Tex. Hydraulic control for mechanisms. 2,615,534, Oct. 28.

Blanchard, Allen W.: *See*—
Karp, Harry R., and Blanchard.

Blaney, Arthur C. and D. L., Los Angele, Calif., assignors to Radio Corporation of America. Magnetic recording and reproduction. 2,615,990, Oct. 28.

Blaney, Dorothy L.: *See*—
Blaney, Arthur C. and D. L.

Bleuer, Lorin T.: *See*—
Gardinor, Elliott W., Cheney, and Bleuer.

Bliss, Robert H., Jr., East Syracuse, N. Y. Mullion. 2,615,539, Oct. 28.

Bloch, Herman S., assignor to Universal Oil Products Company, Chicago, Ill. Rubberlike materials and an unsaturated hydrocarbon oil. 2,615,856, Oct. 28.

Block, Zenas, Larchmont, G. J. Rosner, Brooklyn, and A. H. Goodman, Great Neck, assignors to Doughnut Corporation of America, New York, N. Y. Increasing adhesion of coatings to deep-fat fried foods. 2,615,811, Oct. 28.

Blue, John, assignor to John Blue Company, Huntsville, Ala. Fertilizer distributor. 2,615,596, Oct. 28.

Blue, John, Company, assignee: *See*—
Blue, John.

Bobrick, Arthur L., Pasadena, Calif. Lather dispenser. 2,615,757, Oct. 28.

Bonanno, Joseph L., Madison, N. J., assignor to The Lionel Corporation, New York, N. Y. Two-tone air whistle. 2,615,968, Oct. 28.

Boothroyd, Wilson P., assignor to Philco Corporation, Philadelphia, Pa. Pulse generator. 2,616,047, Oct. 28.

Bordner, Charles A., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of olefinic compounds. 2,615,925, Oct. 28.

Borg-Warner Corporation, assignee: *See*—
Kelbel, Donald W.
Simpson, John M., and Kelbel.

Borowick, Emma G., New York, N. Y. Skirt and blouse connector. 2,615,171, Oct. 28.

Bouligny, R. H., assignee: *See*—
Rowe, Oliver R., and Stolp.

Bowden, Andrew T., Newcastle-upon-Tyne, and P. Kolb, Whitley Bay, assignors of one-third to C. A. Parsons & Company Limited, Newcastle-upon-Tyne, England. Regenerative heat exchanger. 2,615,685, Oct. 28.

Bowen, Albert M.: *See*—
Montooth, George A., and Bowen.

Bowen, William S., Westfield, N. J. Turbine and compressor apparatus. 2,615,616, Oct. 28.

Bower, John O., Wyncote, Pa. Suture treatment and product. 2,615,450, Oct. 28.

Bower, John O., Wyncote, and J. P. Tarbox, Philadelphia, Pa., said Tarbox assignor to said Bower. Suture package and method. 2,615,565, Oct. 28.

Boyer, John L., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetically controlled rectifier-tube. 2,616,064, Oct. 28.

Bradley, John G., Washington, D. C. Case with heat-resistant retractor and closure belt. 2,615,772, Oct. 28.

Bradley, Ralph A.: *See*—
Beyer, Frank A., and Bradley.

Brady, Charles V., and A. F. Ottinger, assignors to Bemis Bro. Bag Company, St. Louis, Mo. Bag closure. 2,615,488, Oct. 28.

Brand, Samuel, Binghamton, and F. V. Adams, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Multiplying and dividing machine. 2,615,624, Oct. 28.

Brecknell, Munro & Rogers Limited, assignee: *See*—
Dolman, Henry J.

Bretcher, Fred C.: *See*—
Gardner, Ray D., Jr., and Bretcher.

Bristol Company, The, assignee: *See*—
Witham, George S.

Brock, John B.: *See*—
Holt, Marcus L., and Brock.

Broderson, Neil O., Rochester, N. Y. Operating internal-combustion engines. 2,615,437, Oct. 28.

Brodie, George H., La Grange, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company. Telephone repeater. 2,615,997, Oct. 28.

Broding, Robert A., Dallas, assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex. Borehole telemetering. 2,615,956, Oct. 28.

Broken Hill Associated Smelters Proprietary Limited, The, assignee: *See*—
Davey, Thomas R. A.

Brottman, Samuel G., Minneapolis, Minn. Shopping cart. 2,615,726, Oct. 28.

Brower, Howard G., Nashville, Tenn. Mailbox name plate support attachment. 2,615,267, Oct. 28.

Brown, Ethel C., Mission, Kans. Combined catamenial appliance and garment. 2,615,449, Oct. 28.

Brown, Herman B., Atlanta, Ga. Power wringer for mops. 2,615,191, Oct. 28.

Brown, Melvin H.: *See*—
Sweeney, Orland R., Brown, and Arnold.

Brown, Royce M., Albuquerque, N. Mex. Hair trimmer. 2,615,243, Oct. 28.

Brown and Sharpe Manufacturing Company, assignee: *See*—
Coffin, Edward E.

Brown, William, London, and H. C. Mellor, Hatch End, England, assignors to Sterling Drug Inc., New York, N. Y. Antisprouting methods and compositions. 2,615,801, Oct. 28.

Brozek, Lawrence: *See*—
Heinmann, Heinrich, and Brozek.

Brubaker, Wilson M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical converter. 2,616,045, Oct. 28.

Brumbaugh, Chester C., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Heat exchange method. 2,615,688, Oct. 28.

Brunen, Harold E., Akron, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Herbicidal composition and method. 2,615,802, Oct. 28.

Brunswick-Balke-Collender Company, The, assignee: *See*—
Montooth, George A., and Bowen.

Bruzau, Marie, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Growing piezoelectric crystals. 2,615,797, Oct. 28.

Bryans, John R., assignee: *See*—
Scott, Philip B.

Buck, Johannes S., Glenmont, and B. F. Tullar, East Greenbush, assignors to Sterling Drug Inc., New York, N. Y. Preparation of 5,7-bisdehydrosteroids. 2,615,904, Oct. 28.

Buckeye Cotton Oil Company, assignee: *See*—
Rice, James V.

Buckeye Incubator Company, The, assignee: *See*—
Berry, Jack R.

Buckeye Steel Castings Company, The, assignee: *See*—
Orr, Claude L., and Settles.

Budisch, Paul D., Milwaukee, Wis. Lock for outboard motors. 2,615,323, Oct. 28.

Bullard Company, The, assignee: *See*—
Johnson, Ernest H., and Lindmark.

Burgess, Arthur R., Harpenden, England, assignor to Imperial Chemical Industries Limited. Synthetic resins stabilized with metal chelate compounds. 2,615,860, Oct. 28.

Burk Don R.: *See*—
Foust, Floyd J., and Burk, and Whelchel.

Burkll, Olga, assignee: *See*—
Marko, Adolf, and Kordesch.

Burns, Henry L., Yellow Springs, Ohio. Fluid pressure apparatus and valve means therefor. 2,615,463, Oct. 28.

Burroughs, Louis R.: *See*—
Ulmer, William W., and Burroughs.

Bush, Edward J., Sunbury-on-Thames, England. Thermostatic control device. 2,616,067, Oct. 28.

Bussard, Emmery J. H., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Tuner for television receivers. 2,615,983, Oct. 28.

Butlin, William: *See*—
Hickling, Ernest H., Cheffings, and Butlin.

Butz, Arthur N., executor: *See*—
Butz, Arthur N., Jr.

Butz, Arthur N., Jr., deceased, State College, Pa.: Arthur N. Butz, executor, Maplewood, N. J., assignor, by mesne assignments, to Pennsylvania Research Corporation. Multiple recording on film. 2,615,778, Oct. 28.

Bychinsky, Wilfred A., Ann Arbor, assignor to General Motors Corporation, Detroit, Mich. Spark plug electrode. 2,615,441, Oct. 28.

Byers, Gordon L., trustee, assignee: *See*—
Robbins, Robert L., Jr.

Cameron, Beryl F., Cambridge, Ohio. Tool for releasing clock springs. 2,615,357, Oct. 28.

Camerota, Louis A., Burlington, assignor to Florence Pipe Foundry & Machine Company, Florence, N. J. Hydraulic press. 2,615,302, Oct. 28.

Campbell, John A., East Cleveland, Ohio, assignor to General Electric Company. Sorting apparatus. 2,615,567, Oct. 28.

Canter, Joe W., Wilmar, Ark. Handle for bucksaws. 2,615,485, Oct. 28.

Capps, Ronald: *See*—
Paul, Philip F., and Capps.

Cardinal Chemical Corporation, assignee: *See*—
Lalbow, Jules.

Carlson, David J., Vienna, and H. T. Decot, Arlington, Va. Battery heating system. 2,615,933, Oct. 28.

Carlson, Wilbur L., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Dynamoelectric machine. 2,615,944, Oct. 28.

Carlson, William I., Detroit, Mich. Measuring tape reel device. 2,615,648, Oct. 28.

Carpenter Manufacturing Corporation, assignee: *See*—
Mellert, Allen J.

Carr, Charles J., Long Beach, Calif. Plug handling head for well casings. 2,615,519, Oct. 28.

Carter, Leslie F., Leonia, N. J., assignor to The Sperry Corporation. Speed correction gear for gyro compasses. 2,615,258, Oct. 28.

Carter, Melvin A., Brooklyn, N. Y. Electronically operated advertising and sound reproducing apparatus. 2,615,993, Oct. 28.

Carter, Sidney T., Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis. Article distributor for conveyers. 2,615,555, Oct. 28.

Casciani, Ferri: *See*—
Lawlor, Francis E., and Casciani.

Casler, Adrien F.: *See*—
Gosnell, Robert E., and Casler.

Cassé, Marcel, Essonnes, France. Automatic forming machine for the manufacture of felt hats, muffs, and like felt articles. 2,615,208, Oct. 28.

Cassella Farbwerke Mainkur, assignee: *See*—
Persch, Walther, and Schmidt.

Catalina, Inc., assignee: *See*—
Nogler, Raymond S., and Menzies.

Cayabyab, Jaime D., Binalonan, Pangasinan, Philippines. Paper fastener. 2,615,222, Oct. 28.

Celanese Corporation of America, assignee: *See*— McFarlane, Samuel B., Jr., and Miller. Olpin, Henry C., and Bell.

Century Engineering Corporation, assignee: *See*— Lattner, Emert J.

Cereal Food Products Company, assignee: *See*— Jean, Paul E.

Chabay, Marcel R. A., Paris, France. Compressor. 2,615,618, Oct. 28.

Chamberlain, Edward T., Jr., Hanover, N. H. Cable grip. 2,615,402, Oct. 28.

Chambersburg Engineering Company, assignee: *See*— Alcorn, Robert L., Jr.

Chaney, Preston E., and W. E. Barnes, Beaumont, Tex., assignors to Sun Oil Company, Philadelphia, Pa. Driving and recording mechanism for calipering devices. 2,615,779, Oct. 28.

Chapman, Alfred A. G., London, England. Electrolytic method to remove rust. 2,615,840, Oct. 28.

Chapman, Charles C.: *See*— Dougerty, Charles F., and Chapman.

Charchian, Benjamin M., assignor to Federal Telephone & Radio Corporation, New York, N. Y. Multistage cascade amplifier. 2,615,998, Oct. 28.

Charton, Paul W., Montclair, assignor to National Union Radio Corporation, Orange, N. J. Electrostatically-focused rotary radial beam tube. 2,616,061, Oct. 28.

Charton, Paul W., Montclair, assignor to National Union Radio Corporation, Orange, N. J. Rotary focused beam electron tube. 2,616,062, Oct. 28.

Chase, George O., Hawthorne, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Preparation of 3-pyridyl-carbinol. 2,615,896, Oct. 28.

Cheffings, Frank: *See*— Hickling, Ernest H., Cheffings, and Butlin.

Cheney, Raymond E.: *See*— Gardinor, Elliott W., Cheney, and Bleuer.

Chester, Allan E., Highland Park, assignor to Poor & Company, Chicago, Ill. Bonding vitreous enamels. 2,615,836, Oct. 28.

Chicago Die Casting Manufacturing Company, assignee: *See*— Koch, Paul F.

Chicago Rawhide Manufacturing Company, assignee: *See*— Vedovell, Rudolph J.

Chrisler, Willard L.: *See*— Marsh, Frank L., Koehler, and Chrisler.

Christensen, William R., Newton Highlands, and C. E. Cross, East Sandwich, Mass. Cold Weather goggles. 2,615,162, Oct. 28.

Christmann, John L., Passaic, N. J. Gear transmission system. 2,615,341, Oct. 28.

Churchman, Edwin T., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Fastening device. 2,615,362, Oct. 28.

Ciaramella, Anthony F., New York, N. Y. Collapsible chair-stick. 2,615,494, Oct. 28.

Ciba Limited, assignee: *See*— Mueller, Willy. Widmer, Willy, and Fasciati.

Cler, Harry E., Crosby, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Production of synthetic hydrocarbons. 2,615,910, Oct. 28.

Cincinnati Industries, Inc., assignee: *See*— Rowe, William W., Spangler, and Frick.

Ckola Company, assignee: *See*— Olson, Harry L.

Clapp, George D., assignor to Leach Company, Oshkosh, Wis. Silo unloader. 2,615,594, Oct. 28.

Clark, Robert H., assignee: *See*— Wilson, Harry C.

Clarke, Ronald A.: *See*— Wilman, Donald, and Clarke.

Clarke, Walter J., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Polyethylene-polyisobutylene composition. 2,615,857, Oct. 28.

Clay, Howard W.: *See*— Atwood, Lyle C., and Clay.

Clayhourn, Glen L., and P. Kocsis, Jr., Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Outdoor metal-clad switchgear. 2,615,775, Oct. 28.

Clevenger, Walton S., and J. S. and S. G. Cohen, Miami, Fla. Method and apparatus for hydraulic work hardening. 2,615,411, Oct. 28.

Cliborn, Robert, assignor to Thompson Products, Inc., Cleveland, Ohio. Self-lubricated turbine drive and gear reduction unit. 2,615,533, Oct. 28.

Clifford, Albert M., Stow, assignor to Wingfoot Corporation, Akron, Ohio. Pyridyl amines. 2,615,892, Oct. 28.

Clopay Corporation, assignee: *See*— Hyde, Robert W.

Cloud, Charles E., assignor to W. S. Cloud, Wilmette, Ill. Method and apparatus for wrapping articles in stretchable sheet material. 2,615,200, Oct. 28.

Cloud, Charles E., assignor to W. S. Cloud, Wilmette, Ill. Packaging apparatus with collapsible seal. 2,615,201, Oct. 28.

Cloud, William S., assignee: *See*— Cloud, Charles E.

Cluett, Peabody & Co., Inc., assignee: *See*— Cluett, Sanford L.

Cluett, Sanford L., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y. Compressive shrinking of webs. 2,615,230, Oct. 28.

Cocker Machine & Foundry Company, assignee: *See*— Suggs, Thomas F.

Coffin, Edward E., Providence, R. I., assignor to Brown and Sharpe Manufacturing Company. Milling machine spindle axial shift control. 2,615,372, Oct. 28.

Cohen, Joel S.: *See*— Clevenger, Walton S., and J. S. and S. G. Cohen.

Cohen, Milton J., Washington, D. C. Applicator for wax and waxlike substances. 2,615,447, Oct. 28.

Cohen, Sanders G.: *See*— Clevenger, Walton S., and J. S. and S. G. Cohen.

Coleman, Clarence B., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic tuning system. 2,616,066, Oct. 28.

Collins, Edward W., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Machine for winding armatures. 2,615,639, Oct. 28.

Collins Radio Company, assignee: *See*— Doelz, Melvin L. Phillips, Edwin N.

Collux A. G., assignee: *See*— Haefeli, Theodor.

Colonial Art Co. Inc., assignee: *See*— Hamilton, Richard G.

Colonna, Angelo, Philadelphia, Pa. Rotary door pull and catch. 2,615,744, Oct. 28.

Coltman, John W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Black screen television cathode-ray tube. 2,616,057, Oct. 28.

Columbia-Southern Chemical Corporation, assignee: *See*— Allen, Edward M. Neubauer, Joseph A.

Columbus McKinnon Chain Corporation, assignee: *See*— Stuller, Earl A.

Combustion Engineering-Superheater, Inc., assignee: *See*— Patterson, Ward S., and Witzke. Ragusan, James J.

Commercial Radio-Sound Corp., assignee: *See*— Kamen, Ira.

Commercial Solvents Corporation, assignee: *See*— Goodale, Charles D. Hickey, Richard J. Larsen, Don H.

Compagnie Francaise de Raffinage, (Societe Anonyme), assignee: *See*— Gislon, André.

Conery, William J., assignor to The F. E. Meyers & Bro. Co., Ashland, Ohio. Pumping apparatus. 2,615,397, Oct. 28.

Conmar Products Corporation, assignee: *See*— Epple, Paul F.

Consolidated Edison Company of New York, Inc., assignee: *See*— Rifenburg, Ray C.

Consolidated Vultee Aircraft Corporation, assignee: *See*— Churchman, Edwin T. Special, Salvatore T.

Constance, Jack J., Bartlesville, Okla., assignor to International Business Machines Corporation, New York, N. Y. Sorting machine. 2,615,568, Oct. 28.

Continental Can Company, Inc., assignee: *See*— Simpson, Justin.

Cook, Stanley S., and L. M. Douglas, assignors to The Parsons Marine Steam Turbine Company Limited, Wallsend-on-Tyne, England. Cutting projecting gear teeth 2,615,359, Oct. 28.

Cook, Wayne S., and F. J. Hormuth, Grand Rapids, Mich., assignors to Sackner Products, Inc. Edge roll for spring structures. 2,615,504, Oct. 28.

Cooley, Austin G., assignor to Times Facsimile Corporation, New York, N. Y. Stylus assembly for facsimile machines. 2,615,780, Oct. 28.

Corakas, Josie M., Washington, D. C. Hospital mattress and bedpan construction. 2,615,175, Oct. 28.

Corbino, Ugo, Rome, Italy. Device for the polyphase transformation of the frequency of three-phase circuits. 2,616,070, Oct. 28.

Corn Products Refining Company, assignee: *See*— Hobbs, Kenneth C.

Corson, G. and W. H., Inc., assignee: *See*— Minnick, Leonard J., and Presgrave.

Council of Scientific and Industrial Research, assignee: *See*— Siddiqui, Salimuzzaman, Sarin, and Varma.

Courtaulds Limited, assignee: *See*— Atkins, Arthur A., Averns, and Walker.

Covert, Roy H.: *See*— Fuqua, Homer B., and Covert.

Crawford, Harvey B., La Canada, Calif. Hose reel. 2,615,755, Oct. 28.

Crawford, William R., Park Hills, Ky., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Range light reflector shield. 2,616,026, Oct. 28.

Crawley, William P., Media, Pa., assignor to American Viscose Corporation, Wilmington, Del. Filter media. 2,615,477, Oct. 28.

Creed and Company Limited, assignee: *See*— Salmon, Reginald D.

Crosland, Edward M., Culcheth, near Warrington, and J. F. Naylor, Newton-le-Willows, assignors to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Dough molding and dough sheeting material. 2,615,404, Oct. 28.

Cross, Chester E.: *See*— Christensen, William R., and Cross.

Crow, William W., Bell Gardens, Calif. Vibration responsive safety cutoff valve. 2,615,460, Oct. 28.

Crow, William W., Bell Gardens, Calif. Automatic fire and earthquake responsive cutoff valve. 2,615,461, Oct. 28.

Crowder, James T., Dallas, Tex. Centrifugal governor having a series of radially shiftable, motion transmitting bell crank levers. 2,615,462, Oct. 28.

Culicetto, Peter J., West New Brighton, N. Y. Volume control apparatus. 2,615,999, Oct. 28.

Cunningham, Marion M., Woonsocket, R. I., assignor to United States Rubber Company, New York, N. Y. Lap seam for coated cord fabric and making same. 2,615,487, Oct. 28.

Curtis, J., Manufacturing Co., assignee: *See*— Holmes, John C.

Curtis, Philip C., Scottsdale, Ariz. Knockdown table. 2,615,770, Oct. 28.

Curtis, Philip C., Scottsdale, Ariz. Knockdown table. 2,615,771, Oct. 28.

Curtiss-Wright Corporation, assignee: *See*— Liedholm, Carl A. Stulen, Walter H., Klein, and Tichenor.

Cushman, Walton W. Webb City, Mo. Metal pallet. 2,615,661, Oct. 28.

Cutter Corporation, assignee: *See*— Mansfield, Warren M.

Cuttino, William H., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic switching system. 2,615,962, Oct. 28.

Cyclomat Dominion Corporation Limited, assignee: *See*— Bittner, Adam.

Dahlbom, Johan R., and T. K. I. B. Ekstrand, assignors to Aktiebolaget Astra, Apotekarnes Kemiska Fabriker, Sodertalje, Sweden. 10-pyrrolidinoacyl-phenothiazines and salts thereof. 2,615,886, Oct. 28.

Dahlgren, Etha A., Washington, D. C. Filing aid. 2,615,576, Oct. 28.

Daisy Manufacturing Company, assignee: *See*— Wesley, Robert O., and Sundberg.

Dale, Alan E.: *See*— Stanworth, John E., and Dale.

Daly, Thomas A., and H. A. Gill, Sharon, Pa., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Variable enabler for acoustic torpedoes. 2,615,416, Oct. 28.

Daniels, Farrington, assignor to Wisconsin Alumni Research Foundation, Madison, Wis. Thermoluminescence radiation exposure meter. 2,616,051, Oct. 28.

Daniels, Flavius K.: *See*— Nasmith, John I., and Daniels.

Darke, Francis J., Jr.: *See*— Sziklai, George C., and Darke.

Darke, Francis J., Jr., Princeton, N. J., assignor to Radio Corporation of America. Color television pickup system. 2,615,974, Oct. 28.

Davey, Thomas R. A., Port Pirie, South Australia, assignor to The Broken Hill Associated Smelters Proprietary Limited, Melbourne, Victoria, Australia. Distillation of metals. 2,615,706, Oct. 28.

Davidson, John, Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Heat transfer device. 2,615,686, Oct. 28.

Davis, George F., Middleville, and E. J. Ayars, Grand Rapids, Mich. Machine for automatically timing the immersion of an article into a series of liquids. 2,615,421, Oct 28.

Davis, Wilmer O., R. Roseman, and B. W. Allan, Baltimore, and R. W. Neptune, Dundalk, Md., assignors to The Glidden Company, Cleveland, Ohio. Iron-free titanium arsenate and making same. 2,615,789, Oct. 28.

Dayger, Jonas E., Binghamton, O. B. Shafer, Owego, E. R. Wooding, Johnson City, J. M. Sarley, Binghamton, and J. V. Williams, Jr., Poughkeepsie, assignors to International Business Machines Corporation, New York, N. Y. Record controlled machine combination. 2,615,629, Oct. 28.

Dayton Rubber Company, The, assignee: *See*— Talalily, Joseph A.

Dean, Dion K., Rahway, N. J., and F. B. White, Elmhurst, assignors to Foster Wheeler Corporation, New York, N. Y. Method and apparatus for stripping volatiles from fluids. 2,615,833, Oct. 28.

Dearborn Motors Corporation, assignee: *See*— Sands, Earl E.

Deardorff, Clinton E., San Fernando, and A. A. Meddock, North Hollywood, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Hydraulic motor and valve assembly. 2,615,428, Oct. 28.

Deardorff, Clinton E., San Fernando, and A. A. Meddock, North Hollywood, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Hydraulic control unit. 2,615,433, Oct. 28.

Decker, Taylor E., assignee: *See*— Spickler, Joseph G.

Decot, Harold T.: *See*— Carlson, David J., and Decot.

Deere Manufacturing Co., assignee: *See*— Fletcher, Edward H., Hanson, and Nakae.

De Groff, Kenneth C., South Bend, Ind. Fluid operable shutter release. 2,615,379, Oct. 28.

Delany Realty Corporation, assignee: *See*— Baisel, Edwin C.

De Maya, Charles B.: *See*— Kaufman, Charles W., and de Maya.

De Mello, Alfred C., New Bedford, Mass. Fishhook holder. 2,615,275, Oct. 28.

De More, Leonel A., Clearwater, Fla. Refrigerating apparatus for freezing food. 2,615,309, Oct. 28.

Denton, William I.: *See*— Bishop, Richard B., and Denton.

Descarsin, Maurice, Paris, France, assignor to General Electric Company. High-frequency apparatus for severing vitreous articles. 2,615,286, Oct. 28.

Detroit Lubricator Company, assignee: *See*— Landon, Walter S.

Deubel, Justin A., assignor to Perfex Corporation, Milwaukee, Wis. Cyclic control system for burners or other condition changers. 2,615,508, Oct. 28.

Deuth, Albert F., Hartsdale, assignor to Faximile, Inc., New York, N. Y. Electrolytic recorder with self-renewing electrode. 2,615,777, Oct. 28.

Dewhirst, Paul A., assignee: *See*— Hamer, Leland S.

Diamond Alkali Company, assignee: *See*— Brumbaugh, Chester C.

Diamond Match Company, The, assignee: *See*— Roberge, Henry A.

Di Cicco, Tripoli J., Concord, Mass., assignor to Electro Products Company. Dispenser for cutting and supporting tape. 2,615,517, Oct. 28.

Dickey, Charles T., Westfield, N. J. Production of non-metallic rolls. 2,615,207, Oct. 28.

Dickinson, Robert C., and R. E. Frink, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,616,007, Oct. 28.

Disler, Roland, Detroit, Mich. Reel for coiling sheet metal strips. 2,615,646, Oct. 28.

Diversey Corporation, The, assignee: *See*— Dvorkovitz, Vladimir, and Hawley.

Dixon, Olaf G., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Contacting liquids with gases or vapors. 2,615,699, Oct. 28.

Dixon, Olaf G., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Apparatus for contacting liquids with gases or vapors. 2,615,700, Oct. 28.

Dixon, Olaf G., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Treatment of gases or vapors with liquids. 2,615,832, Oct. 28.

Dixon, Olaf G., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Packing for a distillation column. 2,615,835, Oct. 28.

Dobbins, Horace M., Charleston, S. C. Combination backstay and sheet for sailing vessels. 2,615,417, Oct. 28.

Doelz, Melvin L., assignor to Collins Radio Company, Cedar Rapids, Iowa. Electromechanical filter. 2,615,981, Oct. 28.

Doll, Henri-Georges, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Vibration insensitive galvanometer device. 2,615,935, Oct. 28.

Dolman, Henry J., Staple Hill, Bristol, assignor to Brecknell, Munro & Rogers Limited, Bristol, England. Coin computing device for coin-controlled vending machines. 2,615,545, Oct. 28.

Dolza, John, Davisburg, assignor to General Motors Corporation, Detroit, Mich. Desitometer. 2,615,328, Oct. 28.

Dominion Engineering Works Limited, assignee: *See*— Maikin, Bernard A.

Donegan, Dorothy A., Ann Arbor, Mich. Shoulder pad structure. 2,615,172, Oct. 28.

Doran Brothers, Incorporated, assignee: *See*— Berger, Frederick J.

Dormeyer Corporation, assignee: *See*— Bisley, William F.

Dougherty, Charles F., Jr., Bartlesville, Okla., and C. C. Chapman, Phillips, Tex., assignors to Phillips Petroleum Company. Hydrocarbon oxidation. 2,615,921, Oct. 28.

Doughnut Corporation of America, assignee: *See*— Block, Zenas, Rosner, and Goodman.

Douglas Aircraft Company, Inc., assignee: *See*— Blackmon, Truett M., and Porter.

Douglas, Louis M.: *See*— Cook, Stanley S., and Douglas.

Dovey, Anne P., Hampstead, M. Manners, and J. H. Partridge, Pinner, England, assignors to General Electric Company. Glass solder. 2,615,816, Oct. 28.

Doyle, Joseph C., assignor to Kee Lox Manufacturing Company, Rochester, N. Y. Carbon paper holder for manifolding typewriters. 2,615,731, Oct. 28.

Drake, Russell R., Caledonia, assignor to Barber-Colman Company, Rockford, Ill. Yarn tensioning means for bobbin winding machines. 2,615,640, Oct. 28.

Dray, Walter R., Yorkville, Ill. Adjustable wheel mount and draft gear arrangement for harvester combines. 2,615,294, Oct. 28.

Dritz, Arthur, Brooklyn, assignor to John Dritz & Sons, New York, N. Y. Snap fastener assembly tool with penetrable sleeve. 2,615,590, Oct. 28.

Dritz, John, & Sons, assignee: *See*—
Dritz, Arthur.

Drury, Joseph E., Richland, Wash. Air operated ball and roller bearing grease packer. 2,615,532, Oct. 28.

Dumbleton, Harold F., Alhambra, assignor to Western Equipment Company, Los Angeles, Calif. Making an integrally reinforced airplane construction. 2,615,234, Oct. 28.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Abbenhouse, Ralph P.
Felt, David.

Dumoulin, Louis J.: *See*—
Peyrot, Pierre P., and Domoulin.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Benning, Anthony F., and Young.
Biswell, Charles B.
Bordner, Charles A.
Flannagan, Gordon N.
McClellan, William R.
Sears, George W., Jr.
Spalding, John R.
Umberger, Jacob Q.

Du Pree, Sam, assignor to Wingfoot Corporation, Akron, Ohio. Forming and curing plastic compounds. 2,615,203, Oct. 28.

Durand Metal Products Corporation, assignee: *See*—
Wolforth, William C.

Durfee, Benjamin M.: *See*—
Lake, Clair D., and Durfee.

Durr, Frank L., New York, N. Y. Garment hanger. 2,615,603, Oct. 28.

Dvorkovitz, Vladimir, Winnetka, Ill., and T. G. Hawley, Jr., Englewood, N. J., assignors to The Diversey Corporation. Washing composition. 2,615,846, Oct. 28.

Dyer, John W.: *See*—
Short, Brooks H., Wilkins, Shaw, and Dyer.

Dyken, Charles P., Saukville, Wis. Cord inserting device. 2,615,290, Oct. 28.

Dynamatic Corporation, assignee: *See*—
Jaeschke, Ralph L.

Eaton Manufacturing Company, assignee: *See*—
Reed, George R.

Ebbert, Thomas H., Los Angeles, Calif. Trombone balancer. 2,615,361, Oct. 28.

Eckel, Arthur F., Inglewood, Calif. Structural form of slide rules. 2,615,630, Oct. 28.

Edison, Thomas A., Incorporated, assignee: *See*—
Moulton, Joseph D., and Enters.
Somers, Richard M.

Edman, Carl A., Fairfield, Conn., assignor to General Electric Company. Ventilation and cooling of household mixers. 2,615,942, Oct. 28.

Edmunds, Howard M., New York, N. Y. Axonometric drawing device. 2,615,251, Oct. 28.

Edwards, Martin A., Scotia, D. E. Garr, and H. M. Ogle, Schenectady, N. Y., assignors to General Electric Company. Excitation system. 2,616,072, Oct. 28.

Edwards, Milon G., assignor to Peerless Machinery Co., Joplin, Mo. Rotary pump. 2,615,399, Oct. 28.

Ekstrand, Torsten K. I. B.: *See*—
Dahlbom, Johan R., and Ekstrand.

Elder Manufacturing Company, assignee: *See*—
Rowan, Alfred P.

Electro Products Company, assignee: *See*—
Di Cicco, Tripoli J.

Electrolux Corporation, assignee: *See*—
Allen, Oliver L.

Ellerby, Robert O., Bloomfield Hills, assignor to General Motors Corporation, Detroit, Mich. Weld analyzer. 2,616,014, Oct. 28.

Elliott, Harold V., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Circuit breaker lever. 2,616,011, Oct. 28.

Emhart Manufacturing Company, assignee: *See*—
Fischer, Paul E.,
McDonald, William C.

Enge, Evelyn E., Chicago, Ill. Foot and leg rest. 2,615,503, Oct. 28.

Enters, Robert F.: *See*—
Moulton, Joseph D., and Enters.

Enthoven, H. J., & Sons Limited, assignee: *See*—
Taylor, Leonard F., and Wright.

Enz, Vern E., Jeannette, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Expanding mandrel. 2,615,644, Oct. 28.

Epple, Paul F., Brooklyn, N. Y., assignor to Conmar Products Corporation, Newark, N. J. Slider for slide fasteners. 2,615,225, Oct. 28.

Erge, Karl W.: *See*—
Watkins, Wayne B., and Erge.

Ericsson, Walter E.: *See*—
Jansson, Karl E., and Ericsson.

Ernest, Fred, Gardena, Calif. Valve. 2,615,668, Oct. 28.

Erwin, Wesley S., assignor to General Motors Corporation, Detroit, Mich. Variable capacitance device. 2,615,960, Oct. 28.

Eves, Frederick S., Bangor, assignor to Munster Simms & Company Limited, Belfast, Northern Ireland. Weft change box mechanism for looms for weaving. 2,615,475, Oct. 28.

Exhibit Supply Co., The, assignee: *See*—
Roeser, John O.

Falk, Gerhard E. A., Hamburg, Germany. Map capable of being folded together and spread flat again. 2,615,732, Oct. 28.

Farrel-Birmingham Company, Incorporated, assignee: *See*—
Schnuck, Carl F., and Hooker.

Farrell, Robert A., Menasha, W. G. Mueller, and A. Bartes, Jr., Neenah, assignors to Marathon Corporation, Rothschild, Wis. Apparatus for making sealed packages. 2,615,377, Oct. 28.

Fasciati, Alfred: *See*—
Widmer, Willy, and Fasciati.

Faximile, Inc., assignee: *See*—
Deuth, Albert F.

Fay, Charles H., and R. R. Goodell, Houston, Tex., assignors to Shell Development Company, San Francisco, Calif. Automatic temperature control. 2,616,020, Oct. 28.

Fedders-Quigan Corporation, assignee: *See*—
Przyborowski, Stanislaus.

Federal Carton Corporation, assignee: *See*—
Pelikan, Alexander.

Federal Products Corporation, assignee: *See*—
Worthen, John H.

Federal Telephone & Radio Corporation, assignee: *See*—
Charchian, Benjamin M.

Felt, David, Teaneck, assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J. Television tuning indicator. 2,615,420, Oct. 28.

Ferar, Montgomery: *See*—
Sundberg, Carl W., and Ferar.

Ferrari, Ruggero, Parma, Italy. Universal and ordinary clock. 2,615,298, Oct. 28.

Ferris, Daniel O., Denver, Colo. Hydraulically adjustable tool post. 2,615,233, Oct. 28.

Fessler, Abe, Maplewood, N. J. Fitting canvas for fur garments or the like. 2,615,250, Oct. 28.

Field, Donald C.: *See*—
Sparks, William J., Thomas, and Field.

Fields, Mack R., Libertyville, assignor to Abbott Laboratories, North Chicago, Ill. Multiple chamber package. 2,615,448, Oct. 28.

Fieser, Louis F., Belmont, and E. B. Hershberg, Stoughton, Mass., assignors to the United States of America as represented by the Secretary of the Army. Munition. 2,615,396, Oct. 28.

Fischer, Paul E., Portland, Conn., assignor, by mesne assignments, to Emhart Manufacturing Company. Crate unloader. 2,615,746, Oct. 28.

Flannagan, Gordon N., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Spinning apparatus and method. 2,615,198, Oct. 28.

Flesch, John E., Los Angeles, Calif., assignor to American Steel Foundries, Chicago, Ill. Spring group assembly. 2,615,709, Oct. 28.

Fletcher, Edward H., Cedar Falls, P. L. Hanson, and T. Nakae, Waterloo, assignors to Deere Manufacturing Co., Dubuque, Iowa. Variable position control for hydraulic servomotors. 2,615,430, Oct. 28.

Flewelling, Robert W., Tacoma, Wash. Belt type spinning reel. 2,615,649, Oct. 28.

Florence Pipe Foundry & Machine Company, assignee: *See*—
Camerota, Louis A.

Flory, Leslie E., and W. S. Pike, Princeton, N. J., assignors to Radio Corporation of America. Apparatus for indicia recognition. 2,615,992, Oct. 28.

Flory, Paul J., Ithaca, N. Y., assignor to Wingfoot Corporation, Akron, Ohio. Polymers. 2,615,863, Oct. 28.

Fockler, Theodore C.: *See*—
Ludwig, Leon R., Fockler, Formhals, and Walton.

Folt, Vernon L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with vinyl chloride. 2,615,869, Oct. 28.

Folt, Vernon L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with vinylidene chloride. 2,615,870, Oct. 28.

Folt, Vernon L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with alkyl methacrylates. 2,615,871, Oct. 28.

Folt, Vernon L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with 2-mono-halogenated monoolefins. 2,615,877, Oct. 28.

Folt, Vernon L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with 1,2-dihalo ethylenes. 2,615,878, Oct. 28.

Folt, Vernon L., Akron, and H. Gilbert, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with alpha-substituted esters of acrylic acid. 2,615,879, Oct. 28.

Folt, Vernon L., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with alkyl acrylates. 2,615,880, Oct. 28.

Fonken, William A., Seattle, Wash. Shuffling decks of playing cards. 2,615,719, Oct. 28.

Ford, Frank R., Birmingham, England. Sheet receiver for duplicating machines. 2,615,714, Oct. 28.

Ford, Ronald M., Sparkbrook, Birmingham, England. Rotary duplicating machine with multiple feed trays. 2,615,391, Oct. 28.

Formhals, William H.: *See*—
Ludwig, Leon R., Fockler, Formhals, and Walton.

Forstmann, Walther G. H., Berlin-Tempelhof, G. Hillmann, Tuebingen, Germany, and E. M. H. Radde, New York, N. Y. Recovering valuable components from oil bearing seeds, and products therefrom. 2,615,905, Oct. 28.

Fortin, Robert C., Lake Hopatcong, N. J., assignor to Radio Corporation of America. Heat radiator for electron discharge devices. 2,616,055, Oct. 28.

Foster, John, assignor to B. & S. Massey Limited, Manchester, England. Servo mechanism. 2,615,431, Oct. 28.

Foster Machine Company, assignee: *See*—
Ball, Harold W., and Stange.

Foster Wheeler Corporation, assignee: *See*—
Dean, Dion K., and White.
Kilsby, Edward R.
Lundgren, Edwin.

Fotes, William, assignee: *See*—
Galusha, Earl E.

Foust, Floyd J., D. R. Burk, and R. C. Whelchel, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Apparatus for testing fluid pressure switches. 2,615,327, Oct. 28.

Fowler, William R., Jr., Selma, Calif. Portable crop heater. 2,615,284, Oct. 28.

Frank, Paul A., assignor to National Rubber Machinery Company, Akron, Ohio. Waste disposal unit for sinks. 2,615,176, Oct. 28.

Franklin, Richard J., Bismarck, N. Dak. Combination fingernail file, fingernail clipper, and pocket clip. 2,615,242, Oct. 28.

Frazier, Thomas W.: *See*—
Wallin, Charles M., and Frazier.

Frick, Roy C.: *See*—
Rowe, William W., Spangler, and Frick.

Friden Calculating Machine Co., Inc., assignee: *See*—
Grobl, Jon E.
Hopkins, George W., and Rolph.
Machado, Anthony B.
Marlow, Chester K.

Friedlander, Thomas A., Baltimore, Md. Chair construction. 2,615,505, Oct. 28.

Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Stock gauge trip apparatus. 2,615,355, Oct. 28.

Friedman, William D., assignee: *See*—
Hayman, George C.

Frils, Harold T., Rumson, N. J. Window construction. 2,615,512, Oct. 28.

Frink, Russell E.: *See*—
Dickinson, Robert C., and Frink.

Frink, Russell E., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Air break circuit interrupter. 2,616,006, Oct. 28.

Frisch, Erling: *See*—
Baker, Benjamin P., and Frisch.

Froelich, Gunnar C.: *See*—
Hoopes, Penrose R., and Froelich.

Fryer, Gilbert N., Arcadia, Calif. Pencil sharpener. 2,615,426, Oct. 28.

Fuller, Lawrence J., Philadelphia, assignor to Welding Engineers, Inc., Norristown, Pa. Material treating apparatus. 2,615,199, Oct. 28.

Fuqua, Homer B., and R. H. Covert, Tucumcari, N. Mex. Valved piston well pump. 2,615,400, Oct. 28.

Furman, Frank J.: *See*—
Mills, Albert W., Furman, and Rabenda.

Furman, Frank J., Endicott, H. L. Read, Vestal, and H. J. Kistner, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Ten-key keyboard mechanism for accounting machines. 2,615,633, Oct. 28.

Fyler, George W., Stratford, Conn., assignor to General Electric Company. Radio detection and ranging system. 2,616,078, Oct. 28.

Gall, John F., Narberth, and H. C. Miller, Wyndmoor, assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Production of metallic fluorides. 2,615,232, Oct. 28.

Galusha, Earl E., assignor of two-fifths to W. Fotes and one-fifth to H. C. Beck, Salt Lake City, Utah. Diesel engine filter cleaner. 2,615,456, Oct. 28.

Galvin, Gerald D., and A. E. McAulay, Fulham, England, assignors to Shell Development Company, San Francisco, Calif. Corrosion inhibiting composition. 2,615,815, Oct. 28.

Garde, Aage, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Balanced pilot valve for hydraulic main valves. 2,615,466, Oct. 28.

Gardinor, Elliott W., Conklin, R. E. Cheney, Endicott, and L. T. Bleuer, Vestal, assignors to International Business Machines Corporation, New York, N. Y. Record card verifying machine. 2,615,333, Oct. 28.

Gardner, Charles F., Aukland, New Zealand. Panel of wood or like material for building construction. 2,615,211, Oct. 28.

Gardner, Ray D., Jr., and F. C. Bretcher, Los Angeles, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Aircraft enclosure jettison system. 2,615,659, Oct. 28.

Garnett, Griffin T., Jr., administrator: *See*—
Schlichting, Herbert R.

Garno, George E., Grafton Center, N. H. Cam actuated side jaw wrench. 2,615,358, Oct. 28.

Garr, Donald E.: *See*—
Edwards, Martin A., Garr, and Ogle.

Gasser, John W., Woodside, N. Y. Taking up slack in lead screw devices. 2,615,348, Oct. 28.

Gaynor, Arthur C., Stratford, Conn. Locking tecter-bar switch. 2,616,012, Oct. 28.

Gazda, Antoine, Providence, R. I. Telephone lock. 2,615,322, Oct. 28.

Geary, Robert J., Blue Point, N. Y. Preserving fruits and vegetables. 2,615,814, Oct. 28.

Gedris, Stanley J., Grand Rapids, Mich. Flask turnover for foundry molding machines. 2,615,588, Oct. 28.

General Aniline & Film Corporation, assignee: *See*—
Max, Fritz and Schmidt-Nickels.
Starke, Albert C., Jr.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Andersen, Fred G.
Campbell, John A.
Descarsin, Maurice.
Dovey, Anne P., Manners, and Partridge.
Edman, Carl A.
Edwards, Martin A., Garr, and Ogle.
Fyler, George W.
Gosnell, Robert E., and Casler.
Lamb, Fredrick S.
McKeag, Alfred H.
Mungovan, Robert E., and Orr.
Palmer, John H.
Parry, Ralph E.
Pipkin, Marvin.
Powers, James H.
Quinn, Joseph G.
Stanworth, John E., and Dale.
Wells, Robert S.
Wilman, Donald, and Clarke.
Young, Charles M.

General Foods Corporation, assignee: *See*—
Kaufman, Charles W., and de Maya.

General Mills, Inc., assignee: *See*—
Morrison, Creighton H.

General Motors Corporation, assignee: *See*—
Bychinsky, Wilfred A.
Carlson, Wilbur L.
Collins, Edward W.
Dolza, John.
Ellerby, Robert O.
Elliott, Harold V.
Erwin, Wesley S.
Foust, Floyd J., Burk, and Whelchel.
Harris, Edward P., and Sampson.
Olson, Elmer.
Rady, William J.
Sampson, Frederick W.
Schluchter, Alfred W.
Short, Brooks H.
Short, Brooks H., Wilkins, Shaw, and Dyer.
Swan, Harry C.
Wallace, De Loss D.
Werner, Calvin J.

General Tire and Rubber Company, The, assignee: *See*—
Beck, Howard G.

Gensel, William L.: *See*—
Jacobi, Thomas E., and Gensel.

Gesner, Carleton P., New Haven, Conn. Tool carriage support and dust guard therefor. 2,615,762, Oct. 28.

Giammaria, John J., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Oil compositions containing stabilized copolymer ester-type pour point depressants. 2,615,843, Oct. 28.

Giammaria, John J , Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Mineral oil compositions containing esters of thiophene-modified copolymers of maleic anhydride with aliphatic vinyl compounds. 2,615,844, Oct. 28.

Giammaria, John J., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Esterified allyl ester-polycarboxylic acid copolymers. 2,615,864, Oct. 28.

Gibb, Thomas R. P., Jr., Marblehead, assignor to Metal Hydrides Incorporated, Beverly, Mass. Purification of borohydrides of the alkali metals. 2,615,788, Oct. 28.

Gift, John, Temple, Pa. Textile inspection apparatus. 2,615,334, Oct. 28.

Gilbert, Harry: *See*—
Folt, Vernon L., and Gilbert.

Gilbert, Harry, Cuyahoga Falls, and F. F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with vinyl esters. 2,615,866, Oct. 28.

Gilbert, Harry, Cuyahoga Falls, and F. F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with vinyl esters of aromatic acids. 2,615,867, Oct. 28.

Gilbert, Harry, Cuyahoga Falls, and F. F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide and propylene. 2,615,874, Oct. 28.

Gilbert, Harry, Cuyahoga Falls, and F. F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide and isopropenyl esters. 2,615,875, Oct. 28.

Gilbert, Harry, Cuyahoga Falls, and F. F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide and vinyl esters of alpha-halogen substituted acids. 2,615,876, Oct. 28.

Gill, Harry A.: *See*—
Daly, Thomas A., and Gill.

Gision, André, assignor to Compagnie Francaise de Raffinage, (Societe Anonyme), Paris, France. Polyvinyl chloride plasticized with a chloroalkylchlorobenzene compound. 2,615,859, Oct. 28.

Glasener, Carl R., Cleveland, A. R. Willard, East Cleveland, and C. R. Weller, assignors to Willard Storage Battery Company, Cleveland, Ohio. Machine for welding battery plates. 2,616,015, Oct. 28.

Glass, Paul, assignor to Askania Regulator Company, Chicago, Ill. Variable transformer control. 2,615,936, Oct. 28.

Glidden Company, The, assignee: *See*—
Davis, Wilmer O., Roseman, Allan, and Neptune.

Goetti, Adam D., Phoenix, Ariz. Fan motor mount on ventilating panel. 2,615,620, Oct. 28.

Goldenberg, Michael, Merion, Pa. Roller skating shoe. 2,615,723, Oct. 28.

Goldman, Angela A., River Edge, N. J., and C. W. Waller, Nanuet, assignors to American Cyanamid Company, New York, N. Y. Preparing pteridine derivatives. 2,615,890, Oct. 28.

Goldman, Angela A., River Edge, N. J., and C. W. Waller, Nanuet, assignors to American Cyanamid Company, New York, N. Y. Pteridine perbromides and preparing the same. 2,615,891, Oct. 28.

Goodale, Charles D., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Coated granular explosive composition. 2,615,800, Oct. 28.

Goodall, William M., Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode-ray coding tube. 2,616,060, Oct. 28.

Goodell, Richard R.: *See*—
Fay, Charles H., and Goodell.

Gooderham, John W., Rye, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Calling line identification system. 2,615,987, Oct. 28.

Goodman, Abraham H.: *See*—
Block, Zenas, Rosner, and Goodman.

Goodnight, Austin G., Laton, Calif. Dispensing utensil. 2,615,405, Oct. 28.

Goodrich, B. F., Company, The, assignee: *See*—
Ardis, Alan E.
Averill, Seward J.
Folt, Vernon L.
Folt, Vernon L., and Gilbert.
Gilbert, Harry, and Miller.
Miller, Floyd F.
Stewart, William D., and Standen.

Gosnell, Robert E., Bucyrus, and A. F. Casler, East Cleveland, Ohio, assignors to General Electric Company. Glass tube reshaping apparatus. 2,615,285, Oct. 28.

Gould, Charles B., Cleveland, Ohio, assignor to the United States of America as represented by the United States Atomic Energy Commission. Time-delay relay testing device. 2,615,967, Oct. 28.

Gouriet, Geoffrey G., Surbiton, and R. H. Hammans, Petts Wood, England. Apparatus for comparing frequencies of electric oscillations. 2,615,943, Oct. 28.

Gradsten, Marcel: *See*—
Zerner, Ernst, Gradsten, and West.

Graf, Fred V., Los Angeles, Calif. Brassière. 2,615,164, Oct. 28.

Graham, Matthew P.: *See*—
Alldredge, Marshall H., and Graham.

Graham, Maxwell A.: *See*—
Bergan, Martin D., and Graham.

Granberg, Albert J., Oakland, Calif., assignor of 7.99% to C. M. Walter, 4.42% each to A. S. Kozman and J. E. Peregrine, 2.21% each of H. M. and L. E. Alley, 1.10% to J. E. Smith and 22.13% to R. W. Lindsay. Hose reel. 2,615,756, Oct. 28.

Gray, Albert M., Chicago, Ill. Support for eating utensils. 2,615,318, Oct. 28.

Gray, Alvin N., Edgewood, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Processing sulfur vulcanizable elastomer compounds. 2,615,204, Oct. 28.

Gray, Alvin N., Edgewood, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Processing vulcanizable elastomer compounds. 2,615,205, Oct. 28.

Greco, John J., Brooklyn, N. Y. Punch plier for eyeglass frames. 2,615,356, Oct. 28.

Greenlee, Theodore K., assignor to Barber-Colman Company, Rockford, Ill. Condition regulating apparatus. 2,616,013, Oct. 28.

Gridley, George O., Berlin, assignor to The New Britain Machine Company, New Britain, Conn. Collet. 2,615,721, Oct. 28.

Griffing, W. C., Incorporated, assignee: *See*—
Griffing, William C., and Hodshon.

Griffing, William C., Danbury, Conn., and A. E. Hodshon, Lahaska, Pa., assignors to W. C. Griffing, Incorporated, Danbury, Conn. Machine for finishing hats. 2,615,599, Oct. 28.

Griggs, Osborne E., assignee: *See*—
Wahlbom, Ernest T.

Grinnell Corporation, assignee: *See*—
Rouverol, William S.

Grobl, Jon E., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Keyboard key. 2,615,547, Oct. 28.

Gross, Henry and S., East Finchley, London, England. Cash register. 2,615,621, Oct. 28.

Gross, Samuel: *See*—
Gross, Henry and S.

Groves, Martin V., Brooklyn, N. Y. Hydraulic master brake cylinder having bleeding means. 2,615,304, Oct. 28.

Guild, Archibald T., Saratoga Spa, assignor to Van Raalte Co., Inc., New York, N. Y. Yarn tensioning device. 2,615,655, Oct. 28.

Guillot, Philip J., Upper Montclair, and H. R. Karp, Newark, assignors to Bendix Aviation Corporation, Teterboro, N. J. Electric heater control. 2,616,019, Oct. 28.

Gwin, Dean R.: *See*—
Gwin, James M. and D. R.

Gwin, James M., Hyattsville, Md., and D. R. Gwin, Tyrone, Pa. Apparatus for cleaning eggs. 2,615,187, Oct. 28.

Gynt, Sven, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Ventilation system for electric machines. 2,615,938, Oct. 28.

Hadley, Orval P., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Making fittings for coupling the ends of tubes. 2,615,235, Oct. 28.

Haefele, John W., Cincinnati, assignor to The Procter & Gamble Company, Ivorydale, Ohio. Modification of keratin. 2,615,782, Oct. 28.

Haefele, John W., Cincinnati, and N. B. Tucker, Glendale, assignors to The Procter & Gamble Company, Ivorydale, Ohio. Modification of keratin. 2,615,783, Oct. 28.

Haefele, John W., Cincinnati, assignor to The Procter and Gamble Company, Ivorydale, Ohio. Compositions for treating keratin-containing materials. 2,615,828, Oct. 28.

Haefell, Theodor, Lucerne, Switzerland, assignor, by mesne assignments, to Collux A. G., Vaduz, Leichtenstein. Device for photographically printing on textile fibers. 2,615,381, Oct. 28.

Hague, Alfred E., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic accounting device. 2,615,628, Oct. 28.

Hahn, Peter J., & Sons Company, assignee: *See*—
Hahn, Peter J., Sr.

Hahn, Peter J., Sr., assignor to P. J. Hahn & Sons Company, Chicago, Ill. Typeholder socket. 2,615,395, Oct. 28.

Haley, William B., Jr., Albany, Ga. Movable book support. 2,615,279, Oct. 28.

Hall, W. F., Printing Company, assignee: *See*—
Ackley, Raymond E.

Halstead, John F., Brooklyn, N. Y., assignor to International Cigar Machinery Company. Cross feed cutter. 2,615,451, Oct. 28.

Hamer, Leland S., Long Beach, assignor of one-fourth to P. A. Dewhirst, Los Angeles, Calif. Blinding device for pine lines. 2,615,473, Oct. 28.

Hamilton, Bertis F., Columbus, Ind. Waste can closure operator and support. 2,615,663, Oct. 28.

Hamilton Kent Manufacturing Company, assignee: *See*—
Nathan, Tracy D.

Hamilton, Richard G., assignor to Colonial Art Co. Inc., Westfield, Mass. Double-faced sign construction. 2,615,268, Oct. 28.

Hammans, Reginald H.: *See*—
Gouriet, Geoffrey G., and Hammans.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Sound reproducing method and system. 2,615,991, Oct. 28.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Electrical system for prolonging life of coated cathodes. 2,616,040, Oct. 28.

Hansen, William W., Stanford University, and R. H. Varian, Cupertino, assignors to The Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif. Frequency converter. 2,616,038, Oct. 28.

Hanson, Paul L.: *See*—
Fletcher, Edward H., Hanson, and Nakae.

Hapman, Hannah J., assignee: *See*—
Hapman, Henry W.

Hapman, Henry W., assignor, by mesne assignments, of sixty per cent to H. W. Hapman and forty per cent to H. J. Hapman, Detroit, Mich. Bucket conveyer structure. 2,615,557, Oct. 28.

Hapman, Henry W., assignor, by mesne assignments, of sixty per cent to H. W. Hapman and forty per cent to H. J. Hapman, Detroit, Mich. Material removing device for conveyers. 2,615,559, Oct. 28.

Harbin, Frank Jr., assignor to Home Furnace Company, Holland, Mich. Furnace control device. 2,615,634, Oct. 28.

Hardman, Albert F., assignor to Wingfoot Corporation, Akron, Ohio. Preparation of thiocarbamyl thiazyl monosulfides. 2,615,893, Oct. 28.

Harkiso Corporation, assignee: *See*—
Lloyd, Claire D.

Harris, Edward P., and F. W. Sampson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Apparatus for reinforcing air hose. 2,615,491, Oct. 28.

Harris, Milton: *See*—
Minor, Francis W., Sookne, Harris, and Pyle.

Haslop, Norman E., North Ridgeville, assignor to The Lakeside Metal Stamping Co., Cleveland, Ohio. Mounting. 2,615,213, Oct. 28.

Hastings Instrument Company, Inc., assignee: *See*—
Timbie, Donald N.

Hatfield, Marcus R., Lakewood, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Heavy duty gas depolarized dry battery. 2,615,931, Oct. 28.

Hauck, Paul A.: *See*—
Holmwood, Richard H., and Hauck.

Haumann, Joseph, assignor to H. Hildebrandt, Chicago, Ill. Christmas tree holder. 2,615,660, Oct. 28.

Hawley, Thomas G., Jr.: *See*—
Dvorkovitz, Vladimir, and Hawley.

Hawthorne, Herbert J., Houston, Tex. Detachable blade bit. 2,615,684, Oct. 28.

Hawy, Ferris A., Columbus, Ohio. Key head for stringed musical instruments. 2,615,360, Oct. 28.

Hayden, Boyd, Newton, Mass. Demountable weed guard for fishhooks. 2,615,277, Oct. 28

Hayman, George C., Boulder, assignor of one-fourth to W. D. Friedman, one-fourth to L. H. Weiss, and one-fourth to D. A. Lifshutz, Denver, Colo. Weather strip. 2,615,214, Oct. 28.

Haythornthwaite, James J., assignor of one-half to Howard and Bullough Limited, Accrington, England. Ring spinning, doubling, and twisting machine. 2,615,297, Oct. 28.

Hazeltine Research, Inc., assignee: *See*—
Richman, Donald.

Heath, Westcott, Jr., Union City, N. J., assignor, by mesne assignments, to S. Scrivener, Jr., trustee of the Petcar Trust. Temperature responsive detector system. 2,615,973, Oct. 28.

Hecking, Theodore W., Audubon, N. J., assignor to Radio Corporation of America. Coaxial socket contact. 2,615,949, Oct. 28.

Heimann, Heinrich, New York, and L. Brozek, Jackson Heights, assignors to Waldes Kohinoor, Inc., Long Island City, N. Y. Spring retaining ring for machine parts. 2,615,735, Oct. 28.

Heinecke, William, New York, N. Y. Method employing amines for cleaning type matrixes. 2,615,825, Oct. 28.

Heinrich, Gustav J., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Manufacture of sodium chlorophenate. 2,615,923, Oct. 28.

Hercules Powder Company, assignee: *See*—
Raczynski, Walter A.

Herrick, Roswell H., Lorain, Ohio, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Single channel mobile telephone system. 2,616,032, Oct. 28.

Hershberg, Emanuel B.: *See*—
Fieser, Louis F., and Hershberg.

Hibbard, Lloyd J., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Static phase balancer. 2,616,071, Oct. 28.

Hickey, Richard J., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of penicillin. 2,615,830, Oct. 28.

Hickin, Robert J., assignor to The Ohio Boxboard Company, Rittman, Ohio. Packaging method and means. 2,615,289, Oct. 28.

Hickling, Ernest H., London, F. Cheffings, and W. Butlin, Greenford, assignors to Normand Limited, London, England. Door for vehicles. 2,615,514, Oct. 28.

Hickok Manufacturing Co. Inc., assignee: *See*—
Meeker, William H.

Higgins, Laurence R., Yakima, Wash. Grinding and sharpening machine. 2,615,354, Oct. 28.

Highwood, William, Cincinnati, Ohio. Tank clamp support holder. 2,615,238, Oct. 28.

Hildebrandt, Alexander B., Tusn. Okla., assignor to Standard Oil Development Company. True dip determining apparatus for well logging. 2,615,248, Oct. 28.

Hildebrandt, Henry, assignee: *See*—
Haumann, Joseph.

Hilliker, Frank T., St. Louis, Mo. Child's rocker toy. 2,615,495, Oct. 28.

Hillmann, Guenther: *See*—
Forstmann, Walther G. H., Hillmann, and Radde.

Hills-McCanna Company, assignee: *See*—
McFarland, Rolland, Jr.

Hinrichs, Ferdinand, assignor to Tri-Clover Machine Co., Kenosha, Wis. Seal for axially movable rotary plug valves. 2,615,672, Oct. 28.

Hinrichs, Ferdinand, assignor to Tri-Clover Machine Co., Kenosha, Wis. Lift plug valve. 2,615,673, Oct. 28.

Hirschmann, Ralph F., Westfield, and N. L. Wendler, Linden, assignors to Merck & Co., Inc., Rahway, N. J. Chemical compounds and preparing the same. 2,615,902, Oct. 28.

Hoag, Yates M., Utica, N. Y. Vehicle ventilating window antidrip device. 2,615,752, Oct. 28.

Hobbs, Kenneth C., Berwyn, Ill., assignor to Corn Products Refining Company, New York, N. Y. Preparation of degraded allyl starch. 2,615,885, Oct. 28.

Hodge, Edwin T., Portland, Oreg. Spiral separator. 2,615,572, Oct. 28.

Hodshon, Alfred E.: *See*—
Griffing, William C., and Hodshon.

Hodson, Peter, Wellsville, N. Y., and H. Klemperer, Belmont, Mass., assignors to The Air Preheater Corporation, New York, N. Y. Liquid cleaned precipitator. 2,615,530, Oct. 28.

Hoe, R., & Co., Inc., assignee: *See*—
Albrecht, Alexander J.

Hoffman, William E., North Sacramento, Calif. Window screen for automobiles. 2,615,515, Oct. 28.

Hoffman-La Roche Inc., assignee: *See*—
Chase George O.

Holgersson, Sigbjörn P. H. E., Ockelbo, Mac S. Rudberg and D. R. Rydberg, Storvik, Sweden. Apparatus for sampling pulp. 2,615,339, Oct. 28.

Holloway, Marshall G., Ithaca, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Method and apparatus for measuring beam current. 2,616,053, Oct. 28.

Holmes, Earl H., Louisville, Ky. Hemorrhoid truss. 2,615,445, Oct. 28.

Holmes, John C., Signal Mountain, assignor to J. Curtis Manufacturing Co., Chattanooga, Tenn. Vacuum booster for internal-combustion engines. 2,615,299, Oct. 28.

Holmwood, Richard H., Binghamton, N. Y., and P. A. Hauck, Union, N. J., assignors to International Business Machines Corporation, New York, N. Y. Strip applying device. 2,615,492, Oct. 28.

Holser, William T., Los Angeles, Calif. Radio echo system for mapping contours. 2,616,077, Oct. 28.

Holt, Marcus L., Lookout Mountain, Tenn., and J. B. Brock, Adairsville, Ga. Vending machine for cylindrical articles. 2,615,773, Oct. 28.

Home Furnace Company, assignee: *See*—
Harbin, Frank, Jr.

Homrighous, John H., Oak Park, Ill. Time division multiplex radiophone system. 2,616,080, Oct. 28.

Hooker, Oliver W.: *See*—
Schnuck, Carl F., and Hooker.

Hoop, John G.: *See*—
Peck, Clarence E., and Hoop.

Hoopes, Penrose R., and G. C. Froelich, assignors to Selas Corporation of America, Philadelphia, Pa. Apparatus for orienting and aligning cylindrical-shaped articles. 2,615,556, Oct. 28.

Hopkes, Henry, Jr., Grosse Pointe Farms, assignor to No-Sag Spring Company, Detroit, Mich. Machine for forming springs having closed ends. 2,615,478, Oct. 28.

Hopkins, George W., and D. L. Rolph, San Leandro, Calif., assignors to Friden Calculating Machine Co., Inc. Keyboard key. 2,615,548, Oct. 28.

Hormuth, Frank J.: *See*—
Cook, Wayne S., and Hormuth.

Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Sheet cutter. 2,615,518, Oct. 28.

Hornik, Frederick, Brooklyn, N. Y. Magnetic clasp coupling for jewelry. 2,615,227, Oct. 28.

Horstkotte, Frederick W., Portland, Oreg. Oscillating manifold hydraulic log barker. 2,615,481, Oct. 28.

Howard and Bullough Limited, assignee: *See*—
Haythornthwaite, James J.

Howard, Giles P. E., Luton, England. Variable stroke pump. 2,615,398, Oct. 28.

Hubbard, Malcolm M., Marblehead, Mass., assignor to Zenith Radio Corporation. Credit verification for subscription type television systems. 2,615,972, Oct. 28.

Huber, Gilbert H., Crestline, Ohio. Vertical bale elevator. 2,615,554, Oct. 28.

Hubertz, Halvard P., Chicago, Ill. Dielectric material inspection system. 2,615,964, Oct. 28.

Huebner Company, The, assignee: *See*—
Huebner, William C.

Huebner, William C., New York, N. Y., assignor to The Huebner Company, Dayton, Ohio. Universal printing process cylinder and making the same. 2,615,389, Oct. 28.

Huebner, William C., New York, N. Y. Making sheet or web material. 2,615,822, Oct. 28.

Hughes, Luther J., Reading, Pa. Tandem axle for trailers. 2,615,728, Oct. 28.

Hughey, Howard G., Fanwood, N. J., assignor to Air Reduction Company, Incorporated. Sequentially operated valve mechanism. 2,615,464, Oct. 28.

Humpal, Eugene G.: *See*—
Balogh, Roy O., and Humpal.

Humphreys, John W., assignor to Johnson Products, Inc., Muskegon, Mich. Cushioning and silencing mechanical tappet. 2,615,439, Oct. 28.

Hunter, James H., and R. B. Moffett, assignors to The Upjohn Company, Kalamazoo, Mich. Reduction of 11-ketosteroids. 2,615,903, Oct. 28.

Hunter, Nova E., Frazeysburg, Ohio. Slide seat. 2,615,493, Oct. 28.

Hurst, George S., Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission. Fast neutron dosimeter. 2,616,052, Oct. 28.

Huskey, Joseph E., Newport, Tenn. Battery filler. 2,615,607, Oct. 28.

Hyde, Robert W., assignor to Clopay Corporation, Cincinnati, Ohio. Window shade cutter. 2,615,516, Oct. 28.

Hyltén-Cavallius, Gösta, Malmo, Sweden. Apparatus for sowing seeds. 2,615,408, Oct. 28.

Ibañez Batlló, Juan, Barcelona, Spain. Shuttle ejection mechanism for looms. 2,615,474, Oct. 28.

Ichniowski, Casimir T.: *See*—
Rosen, Harry, and Ichniowski.

Idaho Sprocket and Machine Works, assignee: *See*—
Schrock, Daniel A.

Illinois Water Treatment Co., assignee: *See*—
Reents, August C.

Imparato, Jack G., Brooklyn, N. Y. Drum ring clamp. 2,615,219, Oct. 28.

Imparato, Jack G., Brooklyn, N. N. Drum clamp device. 2,615,220, Oct. 28.

Imperial Chemical Industries Limited, assignee: *See*—
Burgess, Arthur R.
Dixon, Olaf G.
Little, Andrew H.
Martyn, Roger W.

Industrial Rayon Corporation, assignee: *See*—
Johnson, James E.

Ingersoll-Rand Company, assignee: *See*—
Allen, Roy O.

Institute of Inventive Research, assignee: *See*—
Poulter, Thomas C.

International Business Machines Corporation, assignee: *See*—
Brand, Samuel, and Adams.
Constance, Jack J.
Dayger, Jonas E., Shafer, Wooding, Sarley, and Williams.
Furman, Frank J., Read, and Kistner.
Gardinor, Elliott W., Cheney, and Bleuer.
Holmwood, Richard H., and Hauck.
Lake, Clair D., and Durfee.
Luhn, Hans P.
Mills, Albert W., Furman, and Rabenda.

International Cigar Machinery Company, assignee: *See*—
Halstead, John F.

International Standard Electric Corporation, assignee: *See*—
Bailey, Robert S.
Bruzau, Marie.

Iowa State College Research Foundation, assignee: *See*—
Sweeney, Orland R., Brown, and Arnold.

Ipsen, Harold N., Rockford, Ill. Heat-treating furnace. 2,615,701, Oct. 28.

Ives, Milo W., Ellenville, assignor to Ives & Waters, Inc., Haverstraw, N. Y. Semiautomatic rotary cable tool dresser. 2,615,353, Oct. 28.

Ives & Waters, Inc., assignee: *See*—
Ives, Milo W.

Ivins, Herbert L., Cleveland, Ohio. Collapsible tube dispenser, including a pair of adjacent rollers. 2,615,595, Oct. 28.

Jacobi, Thomas E., Westmont, N. J., and W. L. Gensel, Philadelphia, Pa., assignors to Radio Corporation of America. Signal voltage frequency converter. 2,616,075, Oct. 28.

Jacques, Stanley A., assignor to Askania Regulator Company, Chicago, Ill. Manual drive for hydraulic servomotors. 2,615,429, Oct. 28.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Field control of electromagnetic couplings. 2,615,945, Oct. 28.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Dynamoelectric machine. 2,616,069, Oct. 28.

James, Herbert W.: *See*—
Palmer, Philip C., and James.

James, Richard E., Pasadena, and A. J. Lampert, Walnut, assignors to Rheem Manufacturing Company, Richmond, Calif. Gas burner head. 2,615,510, Oct. 28.

Jannsen, Newman C., Seattle, Wash. Hydraulic transmitter mechanism. 2,615,305, Oct. 28.

Jansson, Karl E., and W. E. Ericsson, Karlskoga, Sweden. Shock controlled rotatable cartridge magazine for firearms. 2,615,369, Oct. 28.

Jasion, Leo Z.: *See*—
Yowell, Howard L., McKay, and Jasion.

Jean, Paul E., Montreal, assignor to Cereal Food Products Company, Quebec, Quebec, Canada. Cooked tubular alimentary composition. 2,615,809, Oct. 28.

Jefferson Chemical Company, Inc., assignee: *See*—
McClellan, Paul P.

Jenkins, James M., Kannapolis, assignor of one-half to C. O. Plott, Concord, N. C. Shuttle box and shuttle for filling replenishing looms. 2,615,476, Oct. 28.

Jenn, Louis J., Indianapolis, Ind. Ventilating and heating device. 2,615,383 Oct. 28.

Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Beater and bowl arrangement for mixers. 2,615,690, Oct. 28.

Jewell, Joseph W., Summit, assignor to The M. W. Kellogg Company, Jersey City, N. J. Recovery of powdered catalyst. 2,615,785, Oct. 28.

Johnson, Andrew X., Milaca, Minn. Convertible scooter. 2,615,722, Oct. 28.

Johnson, Charles E., Dennis, Mass. Trap and escutcheon. 2,615,527, Oct. 28.

Johnson, Clarence, South Euclid, Ohio, assignor to Bailey Meter Company. Linkage connector. 2,615,738, Oct. 28.

Johnson, Elmer L., assignor to Bell & Howell Company, Chicago, Ill. Photographic microrecording apparatus. 2,615,365, Oct. 28.

Johnson, Ernest H., and A. C. Lindmark, Bridgeport, Conn., assignors to The Bullard Company. Tapping attachment. 2,615,183, Oct. 28.

Johnson, Fred R., Kansas City, Mo. Safety device for hydraulic brakes. 2,615,760, Oct. 28.

Johnson, James E., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Spool having thread fastening means. 2,615,651, Oct. 28.

Johnson, James E., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Yarn package support. 2,615,652, Oct. 28.

Johnson Products, Inc., assignee: *See*—
Humphreys, John W.

Johnson, Ralph H., Rochester, N. Y., assignor, by mesne assignments, to The Quaker Oats Company, Chicago, Ill. Divider blade mechanism for materials separating machines. 2,615,571, Oct. 28.

Johnson, Richard J., Minneapolis, Minn. Display stand. 2,615,583, Oct. 28.

Jolly, John V., Phillips, Tex., assignor to Phillips Petroleum Company. Elimination of and accumulator in a hydrocarbon conversion process. 2,615,928, Oct. 28.

Jones, Charles B., Worcester Park, England. Shelf support. 2,615,666, Oct. 28.

Jones, Lyman L., assignor of one-half to G. K. Barger, Seattle, Wash. Car top bow-supported tent. 2,615,458, Oct. 28.

Joy Manufacturing Company, assignee: *See*—
McCallum, Robert A.

Junker, Alex J., and J. J. Koski, assignors to Willys-Overland Motors, Inc., Toledo, Ohio. Switch construction. 2,616,002, Oct. 28.

Kahn, Lawrence M., New York, N. Y. Shirt form with collar strip lock. 2,615,601, Oct. 28.

Kalfaian, Meguer V., Hollywood, Calif. Phase modulation system. 2,615,986, Oct. 28.

Kallstenius, Torsten K. E.: *See*—
Kjellman, Walter, and Kallstenius.

Kamen, Ira, assignor to Commercial Radio-Sound Corp., New York, N. Y. Coupler for wave transmission lines. 2,615,948, Oct. 28.

Karg, Charles A., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Seat or mattress support. 2,615,178, Oct. 28.

Karp, Harry R.: *See*—
Guillot, Philip J., and Karp.

Karp, Harry R., Newark, and A. W. Blanchard, Allendale, assignors to Bendix Aviation Corporation, Teterboro, N. J. Temperature control system. 2,616,018, Oct. 28.

Katzman, Jacob, New York, N. Y. Flat terminal element for condenser foil. 2,615,946, Oct. 28.

Kaufman, Charles W., Tenafly, and C. B. de Maya, Allendale, N. J., assignors to General Foods Corporation, New York, N. Y. Coconut. 2,615,812, Oct. 28.

Kee Lox Manufacturing Company, assignee: *See*—
Doyle, Joseph C.

Kelbel, Donald W.: *See*—
Simpson, John M., and Kelbel.

Kelbel, Donald W., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,615,351, Oct. 28.

Kelley, Bartram: *See*—
Young, Arthur M., and Kelley.

Kelley, Cecil S., Forest Hills, Pa., assignor to Westinghouse Air Brake Company. Combined brake cylinder and slack adjuster. 2,615,537, Oct. 28.

Kellogg, M. W., Co., The, assignee: *See*—
Marcy, Henry T., Mayer, and Reeves.
Jewell, Joseph W.
Passino, Herbert J.
Williams, Theodore S.

Kellogg Switchboard and Supply Company, assignee: *See*—
Brodie, George H.

Kilsby, Edward R., Newark, N. J., assignor to Foster Wheeler Corporation, New York, N. Y. Liquid level indicator. 2,615,338, Oct. 28.

King, Hugh W., Corinth, Miss. Shaper-saw power feed device. 2,615,483, Oct. 28.

Kinn, Theodore P., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Batch dielectric heating. 2,616,025, Oct. 28.

Kirkpatrick, Willard H., Sugar Land, Tex., and J. W. Ryznar, La Grange Park, Ill., assignors to Visco Products Company, Houston, Tex. Breaking water-in-oil. 2,615,853, Oct. 28.

Kirwin, Henry, Dedham, Mass. Spring wheel construction. 2,615,316, Oct. 28.

Kissich, Peter I., Cedar Rapids, Iowa. Bobber. 2,615,276, Oct. 28.

Kistner, Harold J.: *See*—
Furman, Frank J., Read, and Kistner.

Kjellman, Walter, Stockholm, Sweden. Consolidating soils. 2,615,307, Oct. 28.

Kjellman, Walter, Stockholm, and T. K. E. Kallstenius, Lidingo, Sweden. Extracting cores of soil from the ground. 2,615,680, Oct. 28.

Klay, Walter S., and R. E. Price, assignors to Landis Tool Company, Waynesboro, Pa. Grinding machine. 2,615,288, Oct. 28.

Klein, Mathias: *See*—
Stulen, Walter H., Klein, and Tichenor.

Klemperer, Hans: *See*—
Hodson, Peter, and Klemperer.

Klijberg, Bernardus E. J., Tilburg, Netherlands. Rotatable supporting member for conveying devices. 2,615,193, Oct. 28.

Klostermann, Curt W., assignor to American Phenolic Corporation, Chicago, Ill. Spring loaded action contact. 2,615,951, Oct. 28.

Koch, Paul F., Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company. Combined clutch and pulley. 2,615,343, Oct 28.

Kocher, Earl T., Bellflower, Calif., assignor to Visco Products Company, Houston, Tex. Demulsifying chemicals and breaking emulsions. 2,615,852, Oct. 28.

Kocsis, Paul, Jr.: *See*—
Claybourn, Glen L., and Kocsis.

Koehler, Carl J.: *See*—
Marsh, Frank L., Koehler, and Chrisler.

Kolb, Paul: *See*—
Bowden, Andrew T., and Kolb.

Koppers Company, Inc., assignee: *See*—
Schofield, Wilfred C.

Kordesch, Karl: *See*—
Marko, Adolf, and Kordesch.

Koski, John J.: *See*—
Junker, Alex J., and Koski.

Kottmann, Arthur A., Davenport, assignor to The Bettendorf Company, Bettendorf, Iowa. Article conveyer and transfer mechanism. 2,615,553, Oct. 28.

Koucký, Josef, Prague, assignor to Zbrojovka Brno, Narodni Podnik (Brno Arms Factory, National Corporation), Brunn, Czechoslovakia. Automatic gas piston operated firearm. 2,615,370, Oct. 28.

Kozman, Albert S., assignee: *See*—
Granberg, Albert J.

Kracklauer, Aloysius C., Mundelein, Ill. Horizontal plate filter. 2,615,574, Oct. 28.

Kral, Joseph, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Turn-in stud mounting molding snap fastener. 2,615,226, Oct. 28.

Kraus, Leon S., Peoria, Ill. Method of and apparatus for concentrating sewage sludges. 2,615,842, Oct. 28.

Kreiner, Sylvester J., Brunswick, Ohio. Adjustable hinge. 2,615,194, Oct. 28.

Kuchel, Joseph C., Arlington, Va. Bottle carrier. 2,615,749, Oct. 28.

Kuppenheimer, John D., assignor to Riley Stoker Corporation, Worcester, Mass. Control of steam temperature. 2,615,435, Oct. 28.

Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Halogenoalkanenitriles. 2,615,915, Oct. 28.

La Grotto, Marion, Indianapolis, Ind. Safety shoe guard. 2,615,261, Oct. 28.

Laibow, Jules, Merchantville, N. J., assignor to Cardinal Chemical Corporation, Philadelphia, Pa. Vaporizer for insecticides and the like. 2,616,024, Oct 28.

Lake, Clair D., and B. M. Durfee, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Record controlled machine. 2,615,569, Oct. 28.

Lakeside Metal Stamping Co., The, assignee: *See*—
Huslop, Norman E.

Lamb, Frederick S., Cleveland Heights, Ohio, assignor to General Electric Company. Electric terminal connector. 2,615,950, Oct. 28.

Lampert, Albert J.: *See*—
James, Richard E., and Lampert.

Landis Tool Company, assignee: *See*—
Klay, Walter S., and Price.
Williams, Charles C. W.

Landon, Marion E., administratrix: *See*—
Landon, Walter S.

Landon, Walter S., deceased, Detroit, Mich., by M. E. Landon, administratrix, assignor to Detroit Lubricator Company, Detroit, Mich. Metering valve. 2,615,671, Oct. 28.

Lane, Frank, Rochester, N. Y. Sewer catch basin unit. 2,615,526, Oct. 28.

Lark-Horovitz, Karl, and R. M. Whaley, assignors to Purdue Research Foundation, La Fayette, Ind. Alloys and rectifiers made thereof. 2,615,966, Oct. 28.

Larkins, Winifred A., Kingsport, Tenn. Automatic book cutting-off device. 2,615,410, Oct. 28.

Larsen, Don H., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Production of ribofiavin. 2,615,829, Oct. 28.

La Salle Steel Company, assignee: *See*—
See, Theodore S.

Lathrop, Harvey, Forest Hills, N. Y. Memorandum device. 2,615,730, Oct. 28.

Lattner, Emert J., Cedar Rapids, Iowa, assignor to Century Engineering Corporation. Rotary blower support. 2,615,617, Oct. 28.

Lawlor, Francis E., Philadelphia, Pa., and F. Casciani, Lewiston, assignors to Niagara Alkali Company, New York, N. Y. Bactericidal and fungicidal composition. 2,615,823, Oct. 28.

Lawrence, J. Richard, assignor to The Washburn Company, Worcester, Mass. Can opener. 2,615,241, Oct. 28.

Leach Company, assignee: *See*—
Clapp, George D.

Leake, James M., Monroe, Mich. Hub. 2,615,764, Oct. 28.

Lee, Frederick W., Owings Mills, Md. Temperature compensation magnetometer indicator. 2,615,957, Oct. 28.

Lee, Walter J. S., Rochester, Mich. Collapsible sled. 2,615,724, Oct. 28.

Leeds and Northrup Company, assignee: *See*—
Murray, George E. R., and Wilson.

Leese, Edward F., Everett, Wash. Change maker. 2,615,454, Oct. 28.

Lehmann, William R., Atlanta, Ga. Pencil actuated pencil sharpener. 2,615,427, Oct. 28.

Leland Stanford Junior University, the Board of Trustees of the, assignee: *See*—
Hansen, William W., and Varian.

Lemanski, Bernard, Bad Axe, Mich. Pickup conveyer for harvesting machines. 2,615 296, Oct. 28.

Lenehan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Single-tube frequency-modulated oscillator. 2,615,984, Oct. 28.

Leonard, Mayo E., Toledo, Ohio. Pants hanger. 2,615,604, Oct. 28.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Clutch and brake for steering vehicles. 2,615,542, Oct. 28.

Levin, Nathan, Trenton, N. J. Knitting machine and method. 2,615,319, Oct. 28.

Levy, Gustave, East Orange, assignor to National Union Radio Corporation, Orange, N. J. Making scotophor screens. 2,615,821, Oct. 28.

Liedholm, Carl A., Mountain Lake, N. J., assignor to Curtiss-Wright Corporation. Reinforced propeller blade. 2,615,520, Oct. 28.

Lien, Arthur P.: *See*—
McCaulay, David A., and Lien.

Lifshutz, David A., assignee: *See*—
Hayman, George C.

Liger, Andrew W., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich. Electroplating bath and process. 2,615 837, Oct. 28.

Lincoln, Roland L., Dover, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,615,529, Oct. 28.

Linda, Frank R., White Plains, assignor to St. Regis Paper Company, New York, N. Y. Fungus inhibiting container for peat moss and the like. 2,615,614, Oct. 28.

Lindenberg, Fred, Los Angeles, Calif. Sachet. 2,615,754, Oct. 28.

Lindenberg, Theodore, Manhasset, and G. T. Loughlin, Crestwood, N. Y. Diaphragm for electrostatic loudspeakers. 2,615,994, Oct. 28.

Lindmark, Andrew C.: *See*—
Johnson, Ernest H., and Lindmark.

Lindsay, Robert W., assignee: *See*—
Granberg, Albert J.

Lindstedt, Paul M., assignor to Wingfoot Corporation, Akron, Ohio. Dewatering thermoplastic resinous materials. 2,615,206, Oct. 28.

Lingenfelter, Paul B., Clinton, Okla. Hypodermic syringe. 2,615,446, Oct. 28.

Linton, Alfred E., Philadelphia, Pa., and E. Tillinger, Brooklyn, N. Y. Clothespin. 2,615,221, Oct. 28.

Lionel Corporation, The, assignee: *See*—
Bonanno, Joseph L.

Lippincott, Samuel B., and L. A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company. Lubricating oil additives. 2,615,845, Oct. 28.

Litchford, George B.: *See*—
Lyman, Joseph and Litchford.

Littig, Arthur L., Altadena, Calif. Lawn trimmer. 2,615,246, Oct. 28.

Little, Andrew H., Welwyn Garden City, England, assignor to Imperial Chemical Industries Limited. Textile product. 2,615,231, Oct. 28.

Lloyd, Claire D., West Palm Beach, assignor to Harkiso Corporation, Palm Beach, Fla. Sliding door lock. 2,615,742, Oct. 28.

Lober, Konrad, Woodhaven, N. Y. Cork cutting machine. 2,615,480, Oct. 28.

Lockair Pty. Limited, assignee: *See*—
Pegler, Joseph L.

Locke Steel Chain Company, The, assignee: *See*—
Stegeman, Henry J.

Lombard, Adrian A., Clitheroe, assignor to Rolls-Royce Limited, Derby, England. Combustion chamber for gas turbines and having flame tube mounting means allowing radial and axial expansion. 2,615,300, Oct. 28.

Lorentzen, Edward C., Keokuk, Iowa. Article of furniture. 2,615,776, Oct. 28.

Lorenz, Anton, assignee: *See*—
Luckhardt, Johannes.

Lorenz, Anton, Buffalo, N. Y., and J. Luckhardt, Berlin-Dahlem, Germany; said Luckhardt assignor to said Lorenz. Reclining article of furniture. 2,615,496, Oct. 28.

Lorenz, Anton, Buffalo, N. Y. Reclining article of furniture. 2,615,498, Oct. 28.

Loughlin, Grant T.: *See*—
Lindenberg, Theodore, and Loughlin.

Loveland, George W.: *See*—
Mintz, Milton A., and Loveland.

Lowe, Frank W.: *See*—
Poindexter, Franklin E., and Lowe.

Luckhardt, Johannes: *See*—
Lorenz, Anton, and Luckhardt.

Luckhardt, Johannes, Berlin, Germany, assignor to A. Lorenz, Buffalo, N. Y. Reclining article of furniture. 2,615,497, Oct. 28.

Ludlow, Edmund, Columbus, Ind., assignor to Arvin Industries, Inc. Valve for automobile body heaters. 2,615,669, Oct. 28.

Ludwig, Leon R., Pittsburgh, Pa., T. C. Fockler, and W. H. Formhals, Buffalo, N. Y., and H. T. Walton, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Fan-cooled motor. 2,615,937, Oct. 28.

Luhn, Hans P., Armonk, assignor to International Business Machines Corporation, New York, N. Y. Record feeding and analyzing apparatus. 2,615,626, Oct. 28.

Lumitype Corporation, assignee: *See*—
Murphy, Joseph F.

Lundgren, Edwin, Frederick, Md., assignor to Foster Wheeler Corporation, New York, N. Y. Apparatus for testing aeronautical equipment. 2,615,331, Oct. 28.

Lyman, Joseph and G. B. Litchford, Huntington, N. Y., assignors to The Sperry Corporation. Air traffic control system. 2,616,076, Oct. 28.

Lyman, Kenneth E., Lake Forest, assignor to Tucker Corporation, Chicago, Ill. Single leaf spring suspension for automobiles. 2,615,710, Oct. 28.

M-O Valve Company, Ltd., assignee: *See*—
Willshaw, William E.

Macaluso, Francis L., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Impedance matching apparatus. 2,615,947, Oct. 28.

MacDonald, Dennison H., East Haven, assignor to Revere Corporation of America, Wallingford, Conn. Float-switch assembly. 2,616,003, Oct. 28.

Machado, Anthony B., San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc. Decimal point indicator for calculating machines. 2,615,632, Oct. 28.

Mackta, Leo, Brooklyn, N. Y. High voltage measuring apparatus. 2,615,934, Oct. 28.

MacQuaker, Gordon R.: *See*—
Pantin, John and MacQuaker.

Maeser, Mieth, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Spring type clutch. 2,615,543, Oct. 28.

Main, David W., Denver, Colo. Flying toy. 2,615,281, Oct. 28.

Malkin, Bernard A., assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada. Slice assembly for papermaking machines. 2,615,374, Oct. 28.

Mallory, Gerald D., Akron, and T. R. Ten Broeck, Cuyahoga Falls, assignors to Wingfoot Corporation, Akron, Ohio. Article comprising cord bonded to rubber by a vinylpyridine adhesive. 2,615,826, Oct. 28.

Maloy, Clifford T., Englewood, Colo. Rinse cylinder for attachment to rotary washing machine baskets. 2,615,321, Oct. 28.

Malter, Bernard T., Los Angeles, assignor of one-half to Oscar Salenger, Beverly Hills, Calif. Decolorizing and sterilizing spices. 2,615,813, Oct. 28.

Malthaner, William A., Summit, N. D. Newby, Leonia, and H. E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse position dial receiver employing pulse superposition for identifying digits. 2,615,971, Oct. 18.

Mankki, Onnie, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J. Smoking stand. 2,615,578, Oct. 28.

Manners, Maurice: *See*—
Dovey, Anne P., Manners, and Partridge.

Mansfield, Warren M., Glendale, Calif., assignor, by mesne assignments, to Cutter Corporation. Reversible hair trimmer. 2,615,244, Oct. 28.

Manufacture d'Horlogerie de Bethune, assignee: *See*—
Outrebon, Eugéne.

Manzer, Donald N., near Walnut Creek assignor, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif. Slow-setting, oil-in-water bituminous emulsion. 2,615,819, Oct. 28.

Manzer, Donald N., Walnut Creek, assignor, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif. Bituminous emulsions. 2,615,851, Oct. 28.

Marathon Corporation, assignee: *See*—
Farrell, Robert A., Mueller, and Bartes.

Marcus, William, Cleveland, Ohio. Vegetable grater. 2,615,486, Oct. 28.

Marcy, Henry T., Staten Island, N. Y., E. Mayer, Jersey City, N. J., and J. F. Reeves, Staten Island, N. Y., assignors to The M. W. Kellogg Co., Jersey City, N. J. Control and indicating means. 2,615,490, Oct. 28.

Marko, Adolf and K. Kordesch, Vienna, Austria, assignors to O. Burkli, Zurich, Switzerland. Manufacturing porous carbon electrodes. 2,615,932, Oct. 28.

Markoski, John A., Lancaster, Pa., assignor to Radio Corporation of America. Infrared quenchable zinc sulfide phosphors. 2,615,849, Oct. 28.

Marlow, Chester K., Oakland, Calif., assignor to Friden Calculating Machine Co., Inc. Keyboard key. 2,615,549, Oct. 28.

Marsh, Frank L., C. J. Koehler, and W. L. Chrisler, Kenmore, assignors to National Gypsum Company, Buffalo, N. Y. Making rigid type felted mineral wood product. 2,615,806, Oct. 28.

Marshall, Fritz-Hugh B., Glenshaw, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. X-ray motion-picture photography. 2,616,050, Oct. 28.

Marston, Arthur E., and M. D. Adcock, Washington, D. C. Multielement helix antenna. 2,616,046, Oct. 28.

Martin, Edward J., Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y. Diesel fuel. 2,615,799, Oct. 28.

Martin, Homer V., Lincoln, Nebr. Telephone dial cleaner. 2,615,988, Oct. 28.

Martin, Homer Z., Cranford, N. J., assignor to Standard Oil Development Company. Removal of carbon dioxide from hydrocarbon synthesis tail gas. 2,615,909, Oct. 28.

Martyn, Roger W., Fairlie, Scotland, assignor to Imperial Chemical Industries Limited. Machine for charging detonator carrying plates. 2,615,363, Oct. 28.

Massey, B. & S., Limited, assignee: *See*—
Foster, John.

Mathieson Chemical Corporation, assignee: *See*—
Henrich, Gustav J.

Mathwich, Howard R.: *See*—
Wheeler, Benjamin F., and Mathwich.

Matirko, Chester A., Tiffin, assignor to Basic Refractories, Inc., Cleveland, Ohio. Apparatus for feeding ground materials. 2,615,693, Oct. 28.

Matthews, Othel L., Abilene, Tex. Combined tape holder and plaster pallet. 2,615,326, Oct. 28.

Max, Fritz, Staten Island, N. Y., and W. Schmidt-Nickels, Little York, N. J., assignors to General Aniline & Film Corporation, New York, N. Y. Benzothiophene anthraquinone dyestuffs. 2,615,898, Oct. 28.

Maxant Button and Supply Co., assignee: *See*—
Maxant, Robert E.

Maxant, Robert E., Riverside, Ill., assignor to Maxant Button and Supply Co. Ear muff frame and mounting. 2,615,169, Oct. 28.

May, Elmer I.: *See*—
Miller, Elmer A., and May.

May, Harvey, assignee: *See*—
Granberg, Albert J.

Maybach, Gerald E., Bowmansville, N. Y., assignor to National Battery Company, St. Paul, Minn. Battery liquid level indicator. 2,615,337, Oct. 28.

Mayer, Ernest: *See*—
Marcy, Henry T., Mayer, and Reeves.

Mayer, Raoul G.: *See*—
Adams, Orlando P., and Mayer.

Maykemper, Henry, Milwaukee, assignor to National Pressure Cooker Company, Eau Claire, Wis. Steaming and pressing iron. 2,615,265, Oct. 28.

Mayne, Willis O., assignee: *See*—
Washburn, Frank.

McAulay, Alexander E.: *See*—
Galvin, Gerald D., and McAulay.

McCabe-Powers Auto Body Co., assignee: *See*—
Balogh, Roy O., and Humpal.
Smith, Merton, and Stewart.

McCallum, Robert A., Michigan City, Ind., assignor to Joy Manufacturing Company. Drilling apparatus. 2,615,683, Oct. 28.

McCaulay, David A., Chicago, Ill., and A. P. Lien, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Thioether-HF-copper complex compounds. 2,615,908, Oct. 28.

McClellan, Paul P., Old Greenwich, Conn., assignor to Jefferson Chemical Company, Inc., New York, N. Y. Producing ethylene oxide substantially free of acetaldehyde. 2,615,901, Oct. 28.

McClellan, William R., Kennett Square, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Polyethylene terephthalate monofils drawn and heat set for use as bristles. 2,615,784, Oct. 28.

McCleneghan, Samuel, Jr., assignor to Valley Manufacturing Company, Valley, Nebr. Invertible rolling harrow. 2,615,291, Oct. 28.

McCoy, Paul E., assignor, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif. Bituminous emulsion. 2,615,818, Oct. 28.

McCreary, Harold J., Lombard, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Apparatus for utilizing the Hall effect. 2,616,074, Oct. 28.

McDermott, Henry J., Collingdale, Pa., assignor to American Viscose Corporation, Wilmington, Del. Device for wrapping hollow packages. 2,615,606, Oct. 28.

McDonald, William C., Hartford, Conn., assignor to Emhart Manufacturing Company. Apparatus for gauging thickness. 2,616,068, Oct. 28.

McFarland, Rolland, Jr., assignor to Hills-McCanna Company, Chicago, Ill. Valve diaphragm. 2,615,471, Oct. 28.

McFarlane, Samuel B., Jr., and A. L. Miller, Summit, N. J., assignors to Celanese Corporation of America. Reacting azelaic dihydrazide with oxalic acid. 2,615,862, Oct. 28.

McGaughey, James H., Wesleyville, Pa. Combined slidable jaw wire cutting and holding tool. 2,615,181, Oct. 28.

McKay, John F., Jr.: *See*—
Yowell, Howard L., McKay, and Jasion.

McKay Machine Company, The, assignee: *See*—
Shenk, William E.

McKeag, Alfred H., North Wembley, England, assignor to General Electric Company. Manganese activated zinc lithium silicate phosphor. 2,615,850, Oct. 28.

McLean, David A., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Impregnated electrical condenser. 2,615,955, Oct. 28.

McNeely, Lowell, and E. P. Whitlow, Evansville, Ind., assignors to Servel, Inc., New York, N. Y. Apparatus for maintaining liquid level in absorption refrigeration systems. 2,615,311, Oct. 28.

Means, Winthrop J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic testing system. 2,615,961, Oct. 28.

Menzies, Stewart D.: *See*—
Nogler, Raymond S., and Menzies.

Meddock, Alvin A.: *See*—
Deardorff, Clinton E., and Meddock.

Meddock, Alvin A., Van Nuys, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Hydraulic control system with automatic stop. 2,615,432, Oct. 28.

Meeker, William H., assignor to Hickok Manufacturing Co. Inc., Rochester, N. Y. Key ring. 2,615,324, Oct. 28.

Meller, Chris F., Booker, Tex. Hook setter for fishing tackle. 2,615,273, Oct. 28.

Mellert, Allen J., Euclid, assignor, by mesne assignments, to The Carpenter Manufacturing Corporation, Cleveland, Ohio. Fluid fuse. 2,615,675, Oct. 28.

Mellor, Harold C.: *See*—
Brown, William, and Mellor.

Menhall, James W., Benton, Ill. Well derrick, rig, and pipe racking apparatus. 2,615,585, Oct. 28.

Menhall, James W., Benton, Ill. Well drilling rig. 2,615,679, Oct. 28.

Merck & Co., Inc., assignee: *See*—
Hirschmann, Ralph F., and Wendler.

Messing, Hialmar S., assignor to American Defibrator Inc., New York, N. Y. Continuous-flow press for removing moisture from material such as bark, bagasse, peat moss, and the like. 2,615,387, Oct. 28.

Metal Hydrides Incorporated, assignee: *See*—
Gibb, Thomas R. P., Jr.

Meyer, Geo. J., Manufacturing Company, assignee: *See*—
Carter, Sidney T.

Meyer, Henry C. A., Syracuse, N. Y. Instant liquid heater. 2,616,023, Oct. 28.

Meyers, F. E. & Bro. Co., The, assignee: *See*—
Conery, William J.

Michael, Vesta F., Wichita, Kans., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Purifying synthetic oil-soluble carboxylic acids. 2,615,912, Oct. 28.

Mierendorf, Robert C.: *See*—
Anger, Ernest G., and Mierendorf.

Mies, Alexander G., Alhambra, and T. S. Pflueger, Altadena, Calif.; said Mies assignor to said Pflueger. Transmission for fishing reels. 2,615,352, Oct. 28.

Mikeska, Louis A.: *See*—
Lippincott, Samuel B., and Mikeska.

Millen, Ben, Cleveland, Ohio. Resettable circuit breaker. 2,615,963, Oct. 28.

Miller, Alfred L.: *See*—
McFarlane, Samuel B., Jr., and Miller.

Miller, Elmer A., Clearwater, and E. I. May, Yucaipa, Calif. Mobile bale handling equipment. 2,615,586, Oct. 28.

Miller, Floyd F.: See—
Gilbert, Harry, and Miller.

Miller, Floyd F., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Copolymers of vinylidene cyanide with styrene and substituted styrenes. 2,615,868, Oct. 28.

Miller, Henry C.: *See*—
Gall, John F., and Miller.

Miller, Walter, and J. L. D. Morrison, Benton Harbor, Mich. Record changer spindle. 2,615,720, Oct. 28.

Mills, Albert W., Point Pleasant, N. J., F. J. Furman, Endicott, and E. J. Rabenda, Poughkeepsie, assignors to International Business Machines Corporation, New York, N. Y. Paper feeding device. 2,615,551, Oct. 28.

Minnick, Leonard J., Cheltenham, and C. Presgrave, East Whitemarsh Township, Montgomery County, assignors to G. and W. H. Corson, Inc., Plymouth Meeting, Pa. Electrolytic process of producing alkali and alkaline earth metals. 2,615,838, Oct. 28.

Minor, Burt S.: *See*—
Barnes, Byron H., and Minor.

Minor, Francis W., Arlington, Va., A. M. Sookne, Washington, D. C., M. Harris, Bethesda, Md., and G. L. Pyle, Chicago, Ill., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Army. Method and composition for imparting water resistance to textile material. 2,615,824, Oct. 28.

Mintz, Milton A., Lafayette Hill, and G. W. Loveland, Ardmore, Pa. Knitted garment. 2,615,170, Oct. 28.

Mitchell, William H., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Brush mechanism. 2,615,939, Oct. 28.

Mock, Thomas M., Los Angeles, Calif. Fluid pump. 2,615,401, Oct. 28.

Moe, Einar, Seattle, Wash. Clothesline container. 2,615,582, Oct. 28.

Moffett, Robert B.: *See*—
Hunter, James H., and Moffett.

Monsanto Chemical Company, assignee: *See*—
Bruner, Harold E.

Montooth, George A., and A. M. Bowen, Long Beach, Calif., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill. Bowling ball and pin handling apparatus. 2,615,716, Oct. 18.

Moore, James B., Chicago, Ill. Tennis net. 2,615,715, Oct. 28.

Morell, John P., Struthers, Ohio. Rotary brush for cleaning Venetian blinds. 2,615,192, Oct. 28.

Morrison, Creighton H., Minneapolis, Minn., assignor to General Mills, Inc. Middlings purifier. 2,615,570, Oct. 28.

Morrison, James L. D.: *See*—
Miller, Walter, and Morrison.

Moss, Norman N.: *See*—
Wertheim, Oscar, and Moss.

Mosshart, Donald J., Ardmore, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Traveling grate stoker. 2,615,406, Oct. 28.

Motorola, Inc., assignee: *See*—
Schlesinger, Kurt.

Moulton, Joseph D., West Orange, and R. F. Enters, Hackensack, assignors to Thomas A. Edison, Incorporated, West Orange, N. J. Making positive electrodes for battery cells. 2,615,930, Oct. 28.

Moynihan, John D., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Two-frequency oscillator. 2,615,985, Oct. 28.

Mueller, William G.: *See*—
Farrell, Robert A., Mueller, and Bartes.

Mueller, Willy, Riehen, assignor to Ciba Limited, Basel, Switzerland. Manufacture of acetoacetic acid amides. 2,615,917, Oct. 28.

Mullaney, Ralph A., Elmwood Park, Ill., assignor to Zenith Radio Corporation. Continuously variable-speed turntable driving system. 2,615,342, Oct. 28.

Müller, Hans, Erlenbach/Zurich, Switzerland. Device for mixing, stirring, emulsifying, etc. 2,615,692, Oct. 28.

Mungovan, Robert E., and H. W. Orr, Fort Wayne, Ind., assignors to General Electric Company. Standoff insulator stud. 2,615,954, Oct. 28.

Munster Simms & Company Limited, assignee: *See*—
Eves, Frederick S.

Murdock, Forest L., Sr., assignee: *See*—
Williams, Elmer R.

Murphy, Joseph F., West Roxbury, assignor to Lumitype Corporation, Roxbury, Mass. Contact printing machine with phototype. 2,615,380, Oct. 28.

Murray, George E. R., Feasterville, and B. J. Wilson, Oreland, assignors to Leeds and Northrup Company, Philadelphia, Pa. Reflecting measuring device with dual sensitivity. 2,615,367, Oct. 28.

Nakae, Takuro: *See*—
Fletcher, Edward H., Hanson, and Nakae.

Nash-Kelvinator Corporation, assignee: *See*—
Wahlberg, Nils E., and Sladky.

Nasmith, John L., and F. K. Daniels, assignors to Vickers-Armstrongs Limited, London, England. Mounting of impression plates on platens. 2,615,394, Oct. 28.

Nathan, Tracy D., Cuyahoga Falls, Ohio, assignor to Hamilton Kent Manufacturing Company. Sealing ring. 2,615,740, Oct. 28.

Nathan, Tracy D., Cuyahoga Falls, Ohio, assignor to Hamilton-Kent Manufacturing Company. Sealing ring. 2,615,741, Oct. 28.

National Battery Company, assignee: *See*—
Maybach, Gerald E.

National Brass Company, assignee: *See*—
Young, Herbert.

National Gypsum Company, assignee: *See*—
Marsh, Frank L., Koehler, and Chrisler.

National Machinery Company, The, assignee: *See*—
Friedman, John H.

National Pneumatic Co., Inc., assignee: *See*—
Vacha, Fred P.

National Pressure Cooker Company, assignee: *See*—
Maykemper, Henry.

National Rubber Machinery Company, assignee: *See*—
Frank, Paul A.

National Union Radio Corporation, assignee: *See*—
Charton, Paul W.
Levy, Gustave.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Daly, Thomas A., and Gill.
Naylor, Joseph F.: *See*—
Crosland, Edward M., and Naylor.
Neiborn, Joseph, Los Angeles, Calif. Lawn or beach collapsible back comfort device. 2,615,501, Oct. 28.
Nelson, Herbert, Bloomfield, N. J., assignor to Radio Corporation of America. Vacuum valve. 2,615,670, Oct. 28.
Neptune, Ralph W.: *See*—
Davis, Wilmer O., Roseman, Allan, and Neptune.
Neubauer, Joseph A., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Excess flow check valve. 2,615,676, Oct. 28.
New Britain Machine Company, The, assignee: *See*—
Gridley, George O.
Newby, Neal D.: *See*—
Malthaner, William A., Newby, and Vaughan.
Niagara Alkali Company, assignee: *See*—
Lawlor, Francis E., and Casciani.
Niquette, Oscar J., Nashua, N. H. Combination window. 2,615,711, Oct. 28.
Niva, Russell, Waukegan, Ill. Fastening device. 2,615,743, Oct. 28.
Nogler, Raymond S., Pasadena, and S. D. Menzies, Manhattan Baech, assignors to Catalina, Inc., Los Angeles, Calif. Elastic thread laying attachment for sewing machines. 2,615,409, Oct. 28.
Norman, Joseph T., Huntington Mills, Pa. Hothouse, hotbed, and domestic heating system. 2,615,635, Oct. 28.
Normand Limited, assignee: *See*—
Hickling, Ernest H., Cheffings, and Butlin.
Northrop Aircraft, Inc., assignee: *See*—
Gardner, Ray D., Jr., and Bretcher.
No-Sag Spring Company, assignee: *See*—
Hopkes, Henry, Jr.
Nosker, Paul W., Yellow Springs, Ohio. Transmitter for guided aircraft controls. 2,616,031, Oct. 28.
Novick, William, Brooklyn, N. Y. Strap brush for bathing. 2,615,189, Oct. 28.
Nox-Rust Chemical Corporation, assignee: *See*—
Schwoegler, Edward J.
NuArc Company, assignee: *See*—
Benson, Harold R.
O'Brien, Joseph W., Los Angeles, Calif. Electric food warmer. 2,616,021, Oct. 28.
Ogle, Hugh M.: *See*—
Edwards, Martin A., Garr, and Ogle.
Ohanian, John, Binghamton, N. Y. Device for cutting designs in frankfurters. 2,615,196, Oct. 28.
Ohio Boxboard Company, The, assignee: *See*—
Hickin, Robert J.
Ohman, Idalu S., Cloquet, Minn. Cuticle pusher. 2,615,453, Oct. 28.
O'Loughlin, Charles E. A., St. Paul, Minn. Scale lifter. 2,615,195, Oct. 28.
Olpin, Henry C., and D. L. Bell, Spondon, near Derby, England, assignors to Celanese Corporation of America. Dyeing cellulose acetate fibers in a mixed acetate-nylon fabric using an aqueous solution of an acid dye, ethyl alcohol, acetic acid, and either sodium or ammonium thiocyanate. 2,615,781, Oct. 28.
Olson, Elmer, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Carburetor. 2,615,694, Oct. 28.
Olson, Harry L., assignor to Ckola Company, Minneapolis, Minn. Contour gauge. 2,615,256, Oct. 28.
Olson, Walter J., Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y. Grab. 2,615,747, Oct. 28.
Olson, Walter J., Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y. Grab. 2,615,748, Oct. 28.
O'Neill, Henry M., Pompton Plains, N. J. Electronic oscillatory device. 2,616,043, Oct. 28.
Orr, Claude L., and J. C. Settles, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Railway truck with damping means. 2,615,403, Oct. 28.
Orr, Howard W.: *See*—
Mungovan, Robert E., and Orr.
Osowski, Baltazar J., assignor of one-half to F. E. Stacknik, Cicero, Ill. Rotatable supporting means for lamps. 2,616,029, Oct. 28.
O'Sullivan, William L., Milwaukee, Wis. Bottle carrier. 2,615,750, Oct. 28.
Ottinger, August F.: *See*—
Brady, Charles V., and Ottinger.
Outrebon, Eugéne, assignor to Manufacture d'Horlogerie de Bethune, Bethune, Pas-de-Calais, France. Automatic platform scale. 2,615,705, Oct. 28.
Packard Motor Car Company, assignee: *See*—
Storey, Frank E.
Paden, Frederick T., Collingswood, N. J. Snowshoe. 2,615,260, Oct. 28.
Paillard S. A., assignee: *See*—
Ascoli, Enzo.
Pajuoja, William O., assignor of one-half to C. A. Voigt, Deer River, Minn. Flare housing with simultaneously operated wick hood capping means on closure. 2,615,561, Oct. 28.
Palmer, John H., Milford, Conn., assignor to General Electric Company. Automatic electric toaster. 2,615,386, Oct. 28.
Palmer, Philip C., Alvechurch, and H. W. James, Redditch, England; said James assignor to said Palmer. Fishing line reel. 2,615,647, Oct. 28.
Panhandle Eastern Pipe Line Co., assignee: *See*—
Young, Farrile S.
Pantin, John, Chicago, and G. R. MacQuaker, Wheaton, Ill., assignors to Sun Chemical Corporation, Long Island City, N. Y. Printing ink containing a terpene modified phenol formaldehyde resin. 2,615,854, Oct. 28.
Panula, Gustaf: *See*—
Thorp, Clark E., and Panual.
Papirindustriens Forskningsinstitutt, assignee: *See*—
Stephansen, Erik.
Parovel, Giovanni, Sacramento, Calif. Rotary disk cutter. 2,615,482, Oct. 28.
Parry, Ralph E., Cleveland, Ohio, assignor to General Electric Company. Lubricant seal for bearings. 2,615,734, Oct. 28.
Parsons, C. A., & Company Limited, assignee: *See*—
Bowden, Andrew T., and Kolb.
Parsons Marine Steam Turbine Company Limited, The, assignee: *See*—
Cook, Stanley S., and Douglas.
Partridge, John H.: *See*—
Dovey, Anne P., Manners, and Partridge.
Passino, Herbert J., Englewood, assignor to The M. W. Kellogg Company, Jersey City, N. J. Concentrating carotenes. 2,615,927, Oct. 28.
Patent and Licensing Corporation, The, assignee: *See*—
Paul, Philip F., and Capps.
Reeser, Harry C.
Patterson Foundry & Machine Co., The, assignee: *See*—
Valentine, Kenneth S.
Patterson, Ward S., Chappaqua, and E. C. Witzke, Bayside, N. Y., assignors to Combustion Engineering-Superheater, Inc. Header and tubes of a forced circulation steam generator. 2,615,434, Oct. 28.
Paul, Philip F., North Hollywood, Calif., and R. Capps, Seattle, Wash., assignors to The Patent and Licensing Corporation, New York, N. Y. Chick shipping container. 2,615,611, Oct. 28.
Pawl, Walter S., Hyattsville, Md. Planetary type engine. 2,615,436, Oct. 28.
Peck, Clarence E., Cambridge Springs, and J. G. Hoop, Meadville, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Catalytic gas generator. 2,615,795, Oct. 28.
Peerless Machinery Co., assignee: *See*—
Edwards, Milton G.
Peet, Nick P., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Vessel for fluid catalyst reaction with means for varying height of the dense phase. 2,615,796, Oct. 28.
Pégard, Pierre, Courbevoie, assignor to Societe: Ateliers G. S. P., Guillemin, Sergot, Pégard, Courbevoie, France. Safety stopping device for movable machine-tool members. 2,615,373, Oct. 28.
Pegler, Joseph L., Beecroft, near Sydney, assignor to Lockair Pty. Limited, Sydney, New South Wales, Australia. Flushing cistern. 2,615,173, Oct. 28.
Pelaez, Manuel E., Burzaco, Argentina. Collapsible derrick. 2,615,538, Oct. 28.
Pelikan, Alexander, New York, N. Y., assignor to Federal Carton Corporation, North Bergen, N. J. Device for automatically removing window cutouts from blanks. 2,615,376, Oct. 28.
Pennsylvania Research Corporation, assignee: *See*—
Butz, Arthur N., Jr.
Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Gall, John F., and Miller.
Perdue, William M., Little Rock, Ark. Flower box. 2,615,589, Oct. 28.
Peregrine, Jacob E., assignee: *See*—
Granberg, Albert J.
Perfex Corporation, assigneee: *See*—
Deubel, Justin A.
Perkins, Albert G., Grand Island, N. Y. Control unit for milking machines. 2,615,423, Oct. 28.
Perron, Oris, assignee: *See*—
Rider, Leroy.
Persch, Walter, Frankfort-on-the-Main Hochst, and A. P. C. Schmidt, assignors to Cassell Farbwerke Mainkur, Frankfort-on-the-Main Fechenheim, Germany. Hydantoins containing basic substituents. 2,615,897, Oct. 28.
Person, Nelson H., Chicago, Ill. Folding gocart. 2,615,725, Oct. 28.
Persson, Jonas A., Hassela, Sweden. Apparatus for cleaning watches and watch parts. 2,615,455, Oct. 28.
Petcar Trust, The: *See*—
Heath, Westcott, Jr.
Petrie, L. W., assignee: *See*—
Slough, Phillip F.
Peyrot, Pierre P., La Begude, Feyzin, and L. J. Dumoulin, La Terrasse-sur-Dorlay, assignors to Societe des Usines Chimiques Rhone-Poulenc, Paris, France. Reacting methyl triacetoxy silane with polysiloxane resin. 2,615,861, Oct. 28.
Pflueger, Ted S.: *See*—
Mies, Alexander G., and Pflueger.

Philco Corporation, assignee: *See*—
Boothroyd, Wilson P.
Phillips, Edwin N., assignor to Collins Radio Company, Cedar Rapids, Iowa. Impedance-matching and standing-wave-ratio measuring system. 2,615,958, Oct. 28.
Phillips Petroleum Company, assignee: *See*—
Dougherty, Charles F., and Chapman.
Jolly, John V.
Shelby, Anthony O.
Weber, Louis J.
Weedman, John A.
Pike, Winthrop S.: *See*—
Flory, Leslie E., and Pike.
Pipkin, Marvin, Cleveland Heights, Ohio, assignor to General Electric Company. Glass tubulature for feeding mercury. 2,615,472, Oct. 28.
Pitman, Richard W., Laverock-Hillcrest, Pa., assignor to Underwood Corporation, New York, N. Y. Automatic old balance pickup means for accounting and like machines. 2,615,623, Oct. 28.
Pitzer, Edgar C., Schenectady, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Extraction of cerium with an organic solvent. 2,615,798, Oct. 28.
Plott, Claude O., assignee: *See*—
Jenkins, James M.
Podell, Jacob J., New York, N. Y. Life preserver. 2,615,182, Oct. 28.
Poindexter, Franklin E., Richmond Heights, and F. W. Lowe, St. Louis, Mo. Horizontal retort with reciprocating agitator. 2,615,834, Oct. 28.
Pollock, Mark W.: *See*—
Zerner, Ernst, and Pollock.
Poor & Company, assignee: *See*—
Chester, Allan E.
Porter, Firmin D.: *See*—
Blackmon, Truett M., and Porter.
Post, James D., Bethel, assignor to Republic Foil and Metal Mills, Incorporated, Danbury, Conn. Packet for spools. 2,615,564, Oct. 28.
Poulter, Thomas C., La Grange, Ill., assignor to Institute of Inventive Research, San Antonio, Tex. Apparatus for seismic exploration. 2,615,521, Oct. 28.
Poulter, Thomas C., Palo Alto, Calif., assignor to Institute of Inventive Research, San Antonio, Tex. Seismic exploration employing elevated charges. 2,615,522, Oct. 28.
Poulter, Thomas C., Palo Alto, Calif., assignor to Institute of Inventive Research, San Antonio, Tex. Seismic exploration. 2,615,523, Oct. 28.
Poulter, Thomas C., Palo Alto, Calif., assignor to Institute of Inventive Research, San Antonio, Tex. Seismic exploration employing elevated charges. 2,615,524, Oct. 28.
Powers, James H., Westport, Conn., assignor to General Electric Company. Waste disposal apparatus with time delay switch. 2,615,636, Oct. 28.
Presgrave, Cyril: *See*—
Minnick, Leonard J. and Presgrave.
Pressnall, Charles A., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Sash corner construction. 2,615,540, Oct. 28.
Price, Ralph E.: *See*—
Klay, Walter S., and Price.
Procter & Gamble Company, The, assignee: *See*—
Haefele, John W.
Haefele, John W., and Tucker.
Proell, Wayne A., Chicago, Ill., and W. F. Wolff, Whiting, Ind., assignors to Standard Oil Company, Chicago, Ill. High boiling mercaptan production. 2,615,786, Oct. 28.
Przyborowski, Stanislaus, Kenmore, assignor to Fedders-Quigan Corporation, Buffalo, N. Y. Apparatus for making cross fin coils. 2,615,237, Oct. 28.
Purdue Research Foundation, assignee: *See*—
Lark-Horovitz, Karl and Whaley.
Putt, Harlie O., Elkhart, assignor of fifteen per cent to J. E. Schroeder, fifteen per cent to B. A. Scheibelhut, fifteen per cent to L. J. Schroeder and fifteen per cent to M. Schroeder, Mishawaka, and fifteen per cent to F. A. Schellinger, South Bend, Ind. Rotary turbine type fluid coupling. 2,615,303, Oct. 28.
Pyle, Gray L.: *See*—
Minor, Francis W., Sookne, Harris, and Pyle.
Quaker Oats Company, The, assignee: *See*—
Johnson, Ralph H.
Quayle, George F., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pallet truck. 2,615,677, Oct. 28.
Quinn, Joseph G., Schenectady, N. Y., assignor to General Electric Company. Torquemeter. 2,615,332, Oct. 28.
Quist, Harold A., Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa. Liquid sampler. 2,615,340, Oct. 28.
Rabenda, Edward J.: *See*—
Mills, Albert W., Furman, and Rabenda.
Raczynski, Walter A., Elkton, Md., assignor to Hercules Power Company, Wilmington, Del. Preparation of acrylamide. 2,615,918, Oct. 28.
Radart, John B., Minneapolis, Minn. Portable enclosure. 2,615,209, Oct. 28.
Radde, Erich M. H.: *See*—
Forstmann, Walther G. H., Hillmann, and Radde.
Radford, Thomas C., St. Paul, Minn. Roll-away screen. 2,615,513, Oct. 28.
Radio Corporation of America, assignee: *See*—
Blaney, Arthur C., and D. L.
Darke, Francis J., Jr.
Flory, Leslie E., and Pike.
Fortin, Robert C.
Hansell, Clarence W.
Hecking, Theodore W.
Jacobi, Thomas E., and Gensel.
Markoski, John A.
Nelson, Herbert.
Rose, Albert.
Schlesinger, Kurt.
Sziklai, George C.
Sziklai, George C., and Darke.
Wheeler, Benjamin F., and Mathwich.
Rady, William J., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Generator control. 2,616,054, Oct. 28.
Ragusan, James J., Brooklyn, assignor to Combustion Engineering-Superheater, Inc., New York, N. Y. Distributor means for pulverized fuel burners. 2,615,407, Oct. 28.
Raley, John H., Walnut Creek, assignor to Shell Development Company, San Francisco, Calif. Separation of hydrogen halides from olefinically unsaturated compounds. 2,615,791, Oct. 28.
Ram, Inc., assignee: *See*—
Blackburn, Andrew R., and Steele.
Ramage, William H., Memphis, Tenn. Mattress and making same. 2,615,179, Oct. 28.
Randlett, Herbert E., Oakland, assignor to Shell Development Company, San Francisco, Calif. Purification and separation of gaseous mixtures. 2,615,787, Oct. 28.
Rankin, Robert C., Seattle, Wash. Delineator for determining the length and end form of connecting pipes. 2,615,255, Oct. 28.
Ransom, Willard G., Homewood, Kans. Brake. 2,615,536, Oct. 28.
Ranz, Frank S., Blue Ash, Ohio. Automatic beverage maker. 2,615,384, Oct. 28.
Ray, Hjalmer A., Fairhaven, Mass., assignor to Revere Copper and Brass Incorporated, New York, N. Y. Apparatus for producing coils of narrow strip fed thereto from a slitter. 2,615,645, Oct. 28.
Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Automatic pressure controlled valve system for fluid fuel burners. 2,615,511, Oct. 28.
Raytheon Manufacturing Company, assignee: *See*—
Rubin, Milton D.
Read, Harold L.: *See*—
Furman, Frank J., Reed, and Kistner.
Reconstruction Finance Corporation, assignee: *See*—
Woolley, Bradford G.
Reddi-Wip, Inc., assingee: *See*—
Tomasek, Herbert F., and Zimmer.
Reed, George R., Grosse Pointe Park, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Conveyer mechanism for spring cambering machine. 2,615,558, Oct. 28.
Reents, August C., assignor to Illinois Water Treatment Co., Rockford, Ill. Purifying glycerin. 2,615,924, Oct. 28.
Reeser, Harry C., North Hollywood, Calif., assignor to The Patent and Licensing Corporation, New York, N. Y. Container with telescoping closure. 2,615,613, Oct. 28.
Reeves, Arthur E., Los Angeles, Calif. Camera mount. 2,615,664, Oct. 28.
Reeves, John F.: *See*—
Marcy, Henry T., Mayer, and Reeves.
Regan, Barrie, Vancouver, British Columbia, Canada. Building block machine. 2,615,228, Oct. 28.
Rehberg, Chessie E., Glenside, Pa., assignor to the United States of America as represented by the Secretary of Agriculture. Alkyl carbonates of lactates. 2,615,914, Oct. 28.
Reid, Charles E., Sr., Greenville, Miss. Cutting attachment for land-clearing equipment. 2,615,262, Oct. 28.
Republic Foil and Metal Mills, Incorporated, assignee: *See*—
Post, James D.
Revere Copper and Brass Incorporated, assignee: *See*—
Ray, Hjalmer A.
Revere Corporation of America, assignee: *See*—
MacDonald, Dennison H.
Rheem Manufacturing Company, assignee: *See*—
James, Richard E., and Lampert.
Rhodes, Charles J., Wakefield, England. Press for drawing sheet metal. 2,615,412, Oct. 28.
Rice, James V., Cincinnati, Ohio, assignor to Buckeye Cotton Oil Company, Memphis, Tenn. Preparation of cottonseed meal. 2,615,808, Oct. 28.
Richards, Max T., Orlando, Fla. Fluid controlled switch. 2,616,004, Oct. 28.
Richman, Donald, New York, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Self-quench superregenerative receiver. 2,616,039, Oct. 28.
Rider, Leroy, assignor of one-fourth to O. Perron, Lake Charles, La. Ignition timing device for internal-combustion engines, including distributor rotating and locking means. 2,615,929, Oct. 28.
Rifenburg, Ray C., Brooklyn, assignor to Consolidated Edison Company of New York, Inc., New York, N. Y. Stop for fluid filled cable systems. 2,615,952, Oct. 28.

Riley Stoker Corporation, assignee: *See*—
Kuppenheimer, John D.

Ring, Ernest A., assignor to Watchemoket Optical Co., Inc., Providence, R. I. Nonfracturable lens for goggles. 2,615,163, Oct. 28.

Rini, Joseph A., assignee: *See*—
Watson, Alexander N.

Robbins, Robert L., Jr., assignor to G. L. Byers, Berkeley, Calif., trustee. Game board. 2,615,718, Oct. 28.

Roberge, Henry A., Oakland, Maine, assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y. Production of sticks. 2,615,484, Oct. 28.

Robertshaw-Fulton Controls Company, assignee: *See*—
Skinner, Ralph L.

Robinson, George A., Calgary, Alberta, Canada. Portable auger type loader. 2,615,560, Oct. 28.

Roeser, John O., assignor to The Exhibit Supply Co., Chicago, Ill. Mechanism for operating a momentary switch for an electric circuit. 2,616,009, Oct. 28.

Rolls-Royce Limited, assignee: *See*—
Lombard, Adrian A.

Rolph, Donald L.: *See*—
Hopkins, George W., and Rolph.

Rosback, F. P., Company, assignee: *See*—
Schmidtke, Albert H.

Rose, Albert, Princeton, N. J., assignor to Radio Corporation of America. Color television system. 2,615,976, Oct. 28.

Roseman, Reuben: *See*—
Davis, Wilmer O., Roseman, Allan, and Neptune.

Rosen, Harry, Delaware County, and C. T. Ichniowski, Philadelphia County, assignors to Wyeth Incorporated, Philadelphia, Pa. Preparation of a cardio-active glycoside. 2,615,884, Oct. 28.

Rosner, George J.: *See*—
Block, Zenas, Rosner, and Goodman.

Ross, Clarence, assignee: *See*—
Ross, Raymond H.

Ross, Raymond H., Midland, assignor of fifty per cent to C. Ross, Lansing, Mich. Fan belt tool. 2,615,345, Oct. 28.

Ross, Robert E., Lowell, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Gripping slider type buckle with fastener member on slider. 2,615,218, Oct. 28.

Rothbardt, Adolph M., Chicago, Ill. Swab holder and dispenser. 2,615,562, Oct. 28.

Rothweiler, Richard, assignor to The David White Company, Milwaukee, Wis. Film identifying device. 2,615,366, Oct. 28.

Rouverol, William S., Oxford, England, assignor to Grinnell Corporation, Providence, R. I. Spring support. 2,615,708, Oct. 28.

Rowan, Alfred P., Clayton, assignor to Elder Manufacturing Company, St. Louis, Mo. Man's apparel garment. 2,615,166, Oct. 28.

Rowe, Oliver R., and W. J. Stalp, Charlotte, N. C., assignors to R. H. Bouligny, Inc. Cushioning means. 2,615,707, Oct. 28.

Rowe, William W., C. L. Spangler, and R. C. Frick, Cincinnati, assignors to Cincinnati Industries, Inc., Lockland, Ohio. Annaratus for separating conjointly gathered bag tube walls. 2,615,375, Oct. 28.

Rubin, Milton D., Dorchester, assignor to Raytheon Manufacturing Company, Newton, Mass. Relaxation oscillator circuits. 2,616,048, Oct. 28.

Rudberg, Mac S.: *See*—
Holgersson, Sigbjörn P. H. E., Rudberg, and Rydberg.

Ruddy, Arlo W., Morristown, N. J., assignor to Sterling Drug Inc., New York, N. Y. N-heterylalkyl-isobutyl-(2-thienyl) acetonitriles and preparation thereof. 2,615,894, Oct. 28.

Rydberg, David R.: *See*—
Holgersson, Sigbjörn P. H. E., Rudberg, and Rydberg.

Rynders, Frank J., Milwaukee, Wis. Unloading device. 2,615,544, Oct. 28.

Ryznar, John W.: *See*—
Kirkpatrick, Willard H., and Ryznar.

Rzeppa, Alfred H., Grosse Pointe, Mich. Constant velocity universal joint. 2,615,317, Oct. 28.

Sackner Products, Inc., assignee: *See*—
Cook, Wayne S., and Hormuth.

St. Regis Paper Company, assignee: *See*—
Linda, Frank R.

Salenger, Oscar, assignee: *See*—
Malter, Bernard T.

Salmon, Reginald D., assignor to Creed and Company Limited, Croydon, England. Printing telegraph apparatus. 2,615,980, Oct. 28.

Sampson, Frederick W.: *See*—
Harris, Edward P., and Sampson.

Sampson, Frederick W., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Freezing tray. 2,615,310, Oct. 28.

Sampson, Sam, Hewlett, N. Y., assignor to Swank, Inc. Necktie rack. 2,615,579, Oct. 28.

Sands, Earl E., Detroit, assignor to Dearborn Motors Corporation, Highland Park, Mich. Weedhook for plows. 2,615,382, Oct. 28.

Sannebeck, Walter J., Mexico, Mo. Drum stand. 2,615,662, Oct. 28.

Sarff, Warren M., Kirkwood, Mo. Collar stay. 2,615,167, Oct. 28.

Sarin, Krishen K.: *See*—
Siddiqui, Salimuzzaman, Sarin, and Varma.

Sarley, Joseph M.: *See*—
Dayger, Jonas E., Shafer, Wooding, Sarley, and Williams.

Satterthwaite, Fenner L., Kinston, N. C. Shoulder and ditch grading machine. 2,615,264, Oct. 28.

Sauerman, Ernst C., Chicago, Ill. Feeding device for sheet material. 2,615,390, Oct. 28.

Sauerman, Ernst C., Chicago, Ill. Sheet material element used in feeding device. 2,615,392, Oct. 28.

Saunders, Newell, assignee: *See*—
Steedman, Alfred W.

Schaeffer, Jacob H., Great Neck, assignor to Shiman Bros. Co., Inc., New York, N. Y. Wedding and engagement ring ensemble and coupling for same. 2,615,313, Oct. 28.

Schaumleffel, Charles F., Zanesville, Ohio. Plug cutter having an ejector. 2,615,245, Oct. 28.

Scheib, John, Jr., New York, N. Y., assignor to Ward Leonard Electric Company. Electromagnetic switch. 2,616,010, Oct. 28.

Scheibelhut, Bernard A., assignee: *See*—
Putt, Harlie O.

Schellinger, F. Armand, assignee: *See*—
Putt, Harlie O.

Schlesinger, Kurt, Maywood, assignor to Motorola, Inc., Chicago, Ill. Pulse width separation filter. 2,615,978, Oct. 28.

Schlesinger, Kurt, New York, N. Y., assignor to Radio Corporation of America. Sawtooth wave voltage generator. 2,616,044, Oct. 28.

Schlichting, Helen N., assignee: *See*—
Schlichting, Herbert R.

Schlichting, Herbert R., deceased, New Berlin Township, Waukesha County; G. T. Garnett, Jr., administrator, assignor to H. N. Schlichting, Milwaukee, Wis. Waste stopper device. 2,615,177, Oct. 28.

Schluchter, Alfred W., Dearborn, assignor to General Motors Corporation, Detroit, Mich. Grid bearing. 2,615,768, Oct. 28.

Schlumberger Well Surveying Corporation, assignee: *See*—
Broding, Robert A.
Doll, Henri-Georges.

Schmidt, Adolf P. C.: *See*—
Persch, Walther, and Schmidt.

Schmidt-Nickels, Wilhelm: *See*—
Max, Fritz, and Schmidt-Nickels.

Schmidtke, Albert H., St. Joseph, assignor to F. P. Rosback Company, Benton Harbor, Mich. Signature feeding and stitching machine. 2,615,161, Oct. 28.

Schneider, Charles, Los Angeles, Calif. Folding leg structure for articles of furniture. 2,615,502, Oct. 28.

Schnuck, Carl F., North Haven, and O. W. Hooker, Woodbridge, assignors to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Rubber mixer. 2,615,689, Oct. 28.

Schofield, Wilfred C., Chicago, Ill., assignor, by mesne assignments, to Koppers Company, Inc. Motor-driven blowoff valve. 2,615,469, Oct. 28.

Schrock, Daniel A., assignor to Idaho Sprocket and Machine Works, Boise, Idaho. Motorized pulley. 2,615,941, Oct. 28.

Schroeder, J. Edward, assignee: *See*—
Putt, Harlie O.

Schroeder, Louis J., assignee: *See*—
Putt, Harlie O.

Schroeder, Mary, assignee: *See*—
Putt, Harlie O.

Schulz, Fred R., Berkeley Heights, assignor to Sondon Systems Corporation, Red Bank, N. J. Strip winding spool. 2,615,642, Oct. 28.

Schwoegler, Edward J., Hammond, Ind., assignor to Nox-Rust Chemical Corporation, Chicago, Ill. Removable protective coating. 2,615,820, Oct. 28.

Scott, Philip B., Gerrards Cross, assignor of one-third to J. R. Bryans, and one-third to C. E. Stearns, London, England. Magnetic tape sound recording and reproducing apparatus. 2,615,641, Oct. 28.

Scrivener, Samuel, Jr., trustee: *See*—
Heath, Westcott, Jr.

Sears, George W., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalyst and process for ethylene oxide manufacture. 2,615,899, Oct. 28.

Sears, George W., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Process and catalyst for producing ethylene oxide. 2,615,900, Oct. 28.

See, Theodore S., Hammond, Ind., assignor to La Salle Steel Company, Chicago, Ill. Milling machine and method. 2,615,371, Oct. 28.

Seeber, Dale S., Hillsboro, Oreg. Precast sectional concrete stairs. 2,615,325, Oct. 28.

Seeger Refrigerator Company, assignee: *See*—
Swedman, Enoch.

Selas Corporation of America, assignee: *See*—
Hoopes, Penrose R., and Froelich.

Seligson, George H., New York, N. Y. Jointed figure toy. 2,515,283, Oct. 28.

Senesky, John S., Somerville, N. J., assignor to Air Reduction Company, Incorporated. Gas pressure regulator. 2,615,287, Oct. 28.

Servel, Inc., assignee: *See*—
Davidson, John.
Hadley, Orval P.
McNeely, Lowel, and Whitlow.

Settles, James C.: *See*—
Orr, Claude L., and Settles.

Shafer, Orville B.: *See*—
Dayger, Jonas E., Shafer, Wooding, Sarley, and Williams.

Sharpe, Arthur H., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Form feeding mechanism for typewriters. 2,615,550, Oct. 28.

Shaver, Glenn F., Grnettinger, Iowa. Heater. 2,615,444, Oct. 28.

Shaw, Dan, and W. Turner, New York, N. Y. Extensible arm windshield wiper. 2,615,190, Oct. 28.

Shaw, George B.: *See*—
Short, Brooks H., Wilkins, Shaw, and Dyer.

Shelby, Anthony O., Houston, Tex., assignor to Phillips Petroleum Company. Crystallization apparatus. 2,615,794, Oct. 28.

Shell Development Company, assignee: *See*—
Fay, Charles H., and Goodell.
Galvin, Gerald D., and McAulay.
Raley, John H.
Randlett, Herbert E.
Winkler, De Loss E.

Shenk, William E., Hubbard, assignor to The McKay Machine Company, Youngstown, Ohio. Rotary electric resistance welder. 2,616,016, Oct. 28.

Shiman Bros. Co., Inc., assignee: *See*—
Schaeffer, Jacob H.

Shipe, James H., Winter Haven, Fla. Dump body structure. 2,615,753, Oct. 28.

Shmidl, Albert J., Greens Bayou, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Fungicidal and insecticidal preparations. 2,615,827, Oct. 28.

Short, Brooks H., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Ignition system. 2,616,065, Oct. 28.

Short, Brooks H., R. A. Wilkins, and G. B. Shaw, Anderson, and J. W. Dyer, Pendelton, Ind., assignors to General Motors Corporation, Detroit, Mich. Generator regulator. 2,616,073, Oct. 28.

Shur, Ira, Floral Park, assignor to Waldes-Kohinoor, Inc., Long Island City, N. Y. Watertight slide fastener closure. 2,615,224, Oct. 28.

Siddiqui, Salimuzzaman, New Delhi, K. K. Sarin, and J. P. Varma, Poona, assignors to Council of Scientific and Industrial Research, New Delhi, India. Manufacture of molding powders from shellac and resinols like bhilawan shell liquid or cashew shell liquid. 2,615,855, Oct. 28.

Siegel, Louis L., Lakewood, Ohio. Device for removing mud and dirt from shoes. 2,615,188, Oct. 28.

Sigrist, William A., Madison, Wis. Pipe holder. 2,615,581, Oct. 28.

Simmons Company, assignee: *See*—
Woller, Edward E.

Simmons, Lance L., Detroit, assignor to American Blower Corporation, Dearborn, Mich. Heat exchanger. 2,615,687, Oct. 28.

Simpson, John M., Miami Beach, Fla., and D. W. Kelbel, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,615,346, Oct. 28.

Simpson, Justin, Elmhurst, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Bent sheet detector. 2,616,001, Oct. 28.

Sinclair Refining Company, assignee: *See*—
Martin, Edward J.

Sisho, Julius, Torrington, Wyo. Bean harvester. 2,615,295, Oct. 28.

Skinner, Ralph L., Detroit, Mich., assignor, by mesne assignments, to Robertshaw-Fulton Controls Company, Greensburg, Pa. Pressure sealing construction. 2,615,761, Oct. 28.

Sladky, Joseph F.: *See*—
Wahlberg, Nils E., and Sladky.

Slick, Edwin E., Pittsburgh, Pa. Nozzle for metallurgical equipment. 2,615,216, Oct. 28.

Slough, Phillip F., Detroit, Mich., assignor to L. W. Petrie, Chicago, Ill. Fish lure. 2,615,274, Oct. 28.

Smail, Alexander, Virginia Water, England. Device for brewing or infusing tea or other beverages. 2,615,385, Oct. 28.

Smith, Charles B., Manchester, assignor to United Aircraft Corporation, East Hartford, Conn. Centrifugal diffuser. 2,615,301, Oct. 28.

Smith, James E., assignee: *See*—
Granberg, Albert J.

Smith, Merton, Cleveland, and L. A. Stewart, Brooklyn Village, Ohio, assignor, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo. Ladder clamp. 2,615,667, Oct. 28.

Smith, Theodore C., Drexel Hill, Pa. Indicating device for closed tanks. 2,615,336, Oct. 28.

Smokador Manufacturing Co., Inc., assignee: *See*—
Mankki, Onnie.

Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Direct acting friction shock absorber. 2,615,535, Oct. 28.

Societe Anonyme des Usines Jean Gallay, assignee: *See*—
Belaieff, James F.

Societe: Ateliers G. S. P., Guillemin, Sergot, Pégard, assignee: *See*—
Pégard, Pierre.

Societe des Usines Chimiques Rhone-Poulenc, assignee: *See*—
Peyrot, Pierre P., and Domoulin.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Bishop, Richard B., and Denton.
Giammaria, John J.

Somers, Richard M., assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Apparatus for reconditioning phonograph record disks. 2,615,197, Oct. 28.

Sondon Systems Corporation, assignee: *See*—
Schulz, Fred R.

Sonoco Products Company, assignee: *See*—
Betner, Thomas E., and Townsend.

Sookne, Arnold M.: *See*—
Minor, Francis W., Sookne, Harris, and Pyle.

Sorrels, Aaron L., Chicago, Ill. Computation chart. 2,615,631, Oct. 28.

Spalding, John R., Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Apparatus for measuring moisture in yarn. 2,615,959, Oct. 28.

Spangler, Carroll L.: *See*—
Rowe, William W., Spangler, and Frick.

Sparks, William J., and R. M. Thomas, Westfield, N. J., and D. C. Field, Baton Rouge, La., assignors to Standard Oil Development Company. Polymethylpentadiene synthetic rubber. 2,615,881, Oct. 28.

Special, Salvatore T., Fort Worth, Tex., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif. Detonating explosion type rivets. 2,615,591, Oct. 28.

Sperry Corporation, The, assignee: *See*—
Carter, Leslie F.
Lyman, Joseph, and Litchford.
Zaslavsky, Sam.

Spickler, Joseph G., assignor of four-fifths to T. E. Decker, Rockford, Ill. Cattle feed conveying and dispensing apparatus. 2,615,424, Oct. 28.

Sponge Rubber Products Company, The, assignee: *See*—
Talalay, Joseph A.

Spracklen, John G.: *See*—
Adler, Robert, and Spracklen.

Springer, Abraham J., executor: *See*—
Tannenbaum, Morris L.

Springer, Herbert W., Quakertown, Pa. Fold catching mechanism for cloth piling machines. 2,615,712, Oct. 28.

Square D Company, assignee: *See*—
Anger, Ernest G., and Mierendorf.

Stacknik, Frank E., assignee: *See*—
Osowski, Baltazar J.

Stagner, Hamilton R., Cleveland, Ohio. Vaporizing apparatus. 2,615,215, Oct. 28.

Standard Oil Company, assignee: *See*—
McCaulay, David A., and Lien.
Proell, Wayne A., and Wolff.

Standard Oil Development Company, assignee: *See*—
Bacsik, George J.
Cier, Harry E.
Hildebrandt, Alexander B.
Lippincott, Samuel B., and Mikeska.
Martin, Homer Z.
Peet, Nick P.
Shmidl, Albert J.
Sparks, William J., Thomas, and Field.
Stone, Albert L.
True, Martin E.
Yowell, Howard L., McKay, and Jaslon.

Standen, John H.: *See*—
Stewart, William D., and Standen.

Stange, Ferdinand F.: *See*—
Ball, Harold W., and Stange.

Stanolind Oil and Gas Company, assignee: *See*—
Michael, Vesta F.

Stanton, Robert, Denver, Colo. Solid-liquid-reaction processes. 2,615,906, Oct. 28.

Stanton, Robert, Denver City, Colo. Solid-liquid reaction processes. 2,615,907, Oct. 28.

Stanworth, John E., Sheffield, and A. E. Dale, Barlow, England, assignors to General Electric Company. Glass compositions. 2,615,817, Oct. 28.

Starke, Albert C., Jr., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Synthesis of vitamin A and intermediates therefor. 2,615,922, Oct. 28.

Stearns, Cyril E., assignee: *See*—
Scott, Philip B.

Steedman, Alfred W., Saskatoon, Saskatchewan, assignor of one-fourth to N. Saunders, Edmonton, Alberta, Canada. Snowsuit with boots. 2,615,165, Oct. 28.

Steele, Richard E.: *See*—
Blackburn, Andrew R., and Steele.

Stegeman, Henry J., Fairfield, assignor to The Locke Steel Chain Company, Bridgeport, Conn. Sway control means for lawn mowers. 2,615,293, Oct. 28.

Steinhardt, I. Hartley, New York, N. Y. Molded article. 2,615,269, Oct. 28.
Stent, Dudley H., Westminster, London, assignor to Stent Precast Concrete Limited, London, England. Clamping device. 2,615,678, Oct. 28.
Stent Precast Concrete Limited, assignee: *See*—
Stent, Dudley H.
Stephansen, Erik, Bestun, Oslo, assignor to Papirindustriens Forskningsinstitutt, Oslo, Norway. Grinding apparatus. 2,615,638, Oct. 28.
Sterling Drug Inc., assignee: *See*—
Archer, Sydney.
Brown, William, and Mellor.
Buck, Johannes S., and Tullar.
Ruddy, Arlo W.
Stewart, Leonard A.: *See*—
Smith, Merton, and Stewart.
Stewart, William D., and J. H. Standen, Yonkers, assignors to The B. F. Goodrich Company, New York, N. Y. Herbicidal composition. 2,615,804, Oct. 28.
Stolp, William J.: *See*—
Rowe, Oliver R., and Stolp.
Stone, Albert L., Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Power-operated slidable jaw pipe tong. 2,615,682, Oct. 28.
Stone, Irwin, assignor to Wallerstein Company, New York, N. Y. Retarding the staling of bakery products. 2,615,810, Oct. 28.
Storey, Frank E., Grosse Pointe Woods, assignor to Packard Motor Car Company, Detroit, Mich. Oil filter. 2,615,573, Oct. 28.
Stuivenberg, Cornelis H., Haarlem, Netherlands. Wiper holder for perforator-card machines. 2,615,627, Oct. 28.
Stulen, Walter H., Caldwell, M. Klein, Hathorne, and E. L. Tichenor, Montclair, N. J., assignors to Curtiss-Wright Corporation. Blade edge welding technique. 2,615,236, Oct. 28.
Stuller, Earl A., Dixon, Ill., assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y. Chain tightener. 2,615,217, Oct. 28.
Suggs, Thomas F., assignor to Cocker Machine & Foundry Company, Gastonia, N. C. Yarn tensioning device. 2,615,654, Oct. 28.
Sukacev, Lev, Chevy Chase, Md., assignor to himself and V. Sukacev, Washington, D. C. Self-heating container. 2,615,443, Oct. 28.
Sukacev, Varvara, assignee: *See*—
Sukacev, Lev.
Sullivan, John Q.: *See*—
Sullivan, William Q. and J. Q.
Sullivan, William Q., North Hollywood, and J. Q. Sullivan, Ocean Park, Calif. Arc forming flexible ruler. 2,615,257, Oct. 28.
Sun Chemical Corporation, assignee: *See*—
Pantin, John, and MacQuaker.
Zerner, Ernst, Gradsten, and West.
Zerner, Ernst, and Pollock.
Sun Oil Company, assignee: *See*—
Chaney, Preston E., and Barnes.
Quist, Harold A.
Young, Einar T.
Sunbeam Corporation, assignee: *See*—
Jepson, Ivar.
Sundberg, Carl W.: *See*—
Wesley, Robert O., and Sundberg.
Sundberg, Carl W., Birmingham, and M. Ferar, Huntington Woods, Mich. Combination lunch kit and handbag. 2,615,563, Oct. 28.
Sutton, Ralph E., and W. E. Trask, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Machine for lasting, sewing and trimming shoes. 2,615,185, Oct. 28.
Swan, Harry C., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Electric switch. 2,616,005, Oct. 28.
Swank, Inc., assignee: *See*—
Sampson, Sam.
Swedman, Enoch, St. Paul, Minn., assignor to Seeger Refrigerator Company. Refrigerator partition structure. 2,615,592, Oct. 28.
Sweeney, Orland R., M. H. Brown, and L. K. Arnold, assignors to Iowa State College Research Foundation, Ames, Iowa. Production of lignin, cellulose, and pentosans. 2,615,883, Oct. 28.
Swinney, Mary F., Globe, Ariz. Diaper storage device. 2,615,489, Oct. 28.
Sylvania Electric Products Inc., assignee: *See*—
Amico, Salvatore F.
Thalner, Robert R.
Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Color television receiving system. 2,615,975, Oct. 28.
Sziklai, George C., and F. J. Darke, Jr., Princeton, N. J., assignors to Radio Corporation of America. Gain control circuit utilizing keyed magnetic amplifier. 2,615,977, Oct. 28.
T. & T. Vicars Limited, assignee: *See*—
Crosland, Edward M., and Naylor.
Talalay, Joseph A., New Haven, Conn., assignor of one-half to The Sponge Rubber Products Company and one-half to The Dayton Rubber Company, Dayton, Ohio. Mold for rubber products and article formed therein. 2,615,202, Oct. 28.
Tannenbaum, Morris L., deceased, Bronx, N. Y.; A. J. Springer and W. H. Wechter, executors. Sport cap. 2,615,168, Oct. 28.
Tarbox, John P.: *See*—
Bower, John O., and Tarbox.
Taylor Instrument Companies, assignee: *See*—
Wolford, Clyde E.
Taylor, Leonard F., South Darley, near Matlock, and P. W. Wright, Holloway, near Matlock, assignors to H. J. Enthoven & Sons Limited, London, England. Manufacture of lead. 2,615,805, Oct. 28.
Ten Broeck, Theodore R.: *See*—
Mallory, Gerald D., and Ten Broeck.
Tenety, Helen M., executrix: *See* Tenety, Vincent J.
Tenety, Vincent J., deceased, Jersey City, N. J.; H. M. Tenety, executrix. Machine for transfer printing on circular objects. 2,615,388, Oct. 28.
Te Strake, Lambertus, Deurne, Villa Gelria, Netherlands. Yarn brake. 2,615,656, Oct. 28.
Thad, Theodore D., Cook County, Ill., assignor to M. Weintraub, Newport, Ky. Magnetic recorder. 2,615,989, Oct. 28.
Thalner, Robert R., Buffalo, N. Y., assignor to Sylvania Electric Products Inc. Unsymmetrical deflection yoke. 2,616,056, Oct. 28.
Thelin, George W., Newton, Mass. Toy washing machine. 2,615,280, Oct. 28.
Thomas & Betts Co., The, assignee: *See*—
Bergan, Martin D., and Graham.
Thomas, Garrett J., Zion, Ill. Collapsible chair. 2,615,500, Oct. 28.
Thomas, Robert M.: *See*—
Sparks, William J., Thomas, and Field.
Thompson, Ernest S., and N. A. Weltz, Atlanta, Ga. Garment hanger and form board. 2,615,602, Oct. 28.
Thompson, Kenneth M., Aldan, assignor to The Atlantic Refining Company, Philadelphia, Pa. Alkaryl sulfonate detergents. 2,615,847, Oct. 28.
Thompson Products, Inc., assignee: *See*—
Alldredge, Marshall H., and Graham.
Cliborn, Robert.
Snyder, Jacob R.
Thomson, Edward, Ashley, Ill. Power transmission. 2,615,344, Oct. 28.
Thorns, Irvin A., Los Angeles, Calif. Sectionalized portable ice stage. 2,615,308, Oct. 28.
Thorp, Clark E., Chicago, and G. Panula, Midlothian, Ill., assignors, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y. Ozone generation. 2,615,841, Oct. 28.
Tichenor, Edwin L.: *See*—
Stulen, Walter H., Klein, and Tichenor.
Tillinger, Eugene: *See*—
Linton, Alfred E., and Tillinger.
Timble, Donald N., Bethesda, Md., assignor to Hastings Instrument Company, Inc., Hampton, Va. Navigation lane identification. 2,616,079, Oct. 28.
Times Facsimile Corporation, assignee: *See*—
Cooley, Austin G.
Tomasek, Herbert F., and F. Zimmer, assignors, by mesne assignments, to Reddi-Wip, Inc., St. Louis, Mo. Dispensing valve for liquid and gas containers. 2,615,597, Oct. 28.
Tondreau, Albert W., Westwood Village, assignor to Warner Bros. Pictures, Inc., Burbank, Calif. Obtaining registry between separately photographed action scenes. 2,615,364, Oct. 28.
Topping, Eugene, Brooklyn, N. Y. Low-pressure alarm for lubricating systems. 2,615,419, Oct. 28.
Townsend, Joseph R.: *See*—
Betner, Thomas E., and Townsend.
Trailmobile Inc., assignee: *See*—
Beyer, Frank A., and Bradley.
Black, James J.
Trask, William E.: *See*—
Sutton, Ralph E., and Trask.
Tri-Clover Machine Co., assignee: *See*—
Hinrichs, Ferdinand.
Tripp, Frank E., Fort Worth, Tex. Clothes hanger. 2,615,580, Oct. 28.
Tru-Fit Company, assignee: *See*—
Axel, Benjamin.
True, Martin E., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Device for handling pipes. 2,615,681, Oct. 28.
Tucker Corporation, assignee: *See*—
Lyman, Kenneth E.
Tucker, Nathaniel B.: *See*—
Haefele, John W., and Tucker.
Tucker, Preston T., Ypsilanti, Mich. Hydraulic mechanism for actuating valves. 2,615,438, Oct. 28.
Tullar, Benjamin F.: *See*—
Buck, Johannes S., and Tullar.
Turner, William: *See*—
Shaw, Dan, and Turner.

Ueltschi, Frank E., Saginaw, Mich. Mechanically actuated marionette control mechanism. 2,615,282, Oct. 28.
Ulmer, William W., Alexandria, and L. R. Burroughs, South Bend, Ind., said Burroughs assignor to said Ulmer. Cast pigmented plastic sheet. 2,615,271, Oct. 28.
Umberger, Jacob Q., Holmdel, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stripping film and stripping. 2,615,807, Oct. 28.
Underwood Corporation, assignee: *See*—
Anderson, Walter A.
Pitman, Richard W.
Sharpe, Arthur H.
Wise, Elmer L.
Union Carbide and Carbon Corporation, assignee: *See*—
Hatfield, Marcus R.
Yendall, Edward F.
United Aircraft Corporation, assignee: *See*—
Smith, Charles B.
United-Carr Fastener Corporation, assignee: *See*—
Becker, Philip D.
Bedford, William A., Jr.
Kral, Joseph.
Ross, Robert E.
United Shoe Machinery Corporation, assignee: *See*—
Birch, William G.
Maeser, Mieth.
Sutton, Ralph E., and Trask.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Allard, Gerard A.
Gould, Charles R.
Holloway, Marshall G.
Hurst, George S.
Pitzer, Edgar C.
Weeks, Robert R.
United States Rubber Company, assignee: *See*—
Cunningham, Marion M.
Ladd, Elbert C.
United States Steel Company, assignee: *See*—
Adams, Orlando P., and Mayer.
Universal Oil Products Company, assignee: *See*—
Bloch, Herman S.
Upjohn Company, The, assignee: *See*—
Hunter, James H., and Moffett.
Vacha, Fred P., Auburndale, assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass. Centrifugal spring support type speed responsive device. 2,615,704 Oct. 28.
Valentine, Kenneth S., assignor to The Patterson Foundry & Machine Co., New York, N. Y. Dispersion apparatus. 2,615,697, Oct. 28.
Valentine, Kenneth S., assignor to The Patterson Foundry & Machine Co., New York, N. Y. Apparatus for dispersing gases in liquids. 2,615,698, Oct. 28.
Valley Manufacturing Company, assignee: *See*—
McCleneghan, Samuel, Jr.
Van Clief, William C., Jr., Ridgewood, N. J. Article container and dispensing device. 2,615,774, Oct. 28.
Van Dyke, Frank G., Detroit, Mich. Light intensifying attachment for electric bulbs. 2,616,030, Oct. 28.
Van Raalte Co., Inc., assignee: *See*—
Guild, Archibald T.
Varian, Russell H.: *See*—
Hansen, William W., and Varian.
Varma, Jyoti P.: *See*—
Siddiqui, Salimuzzaman, Sarin, and Varma.
Vaughan, Henry E.: *See*—
Malthaner, William A., Newby, and Vaughan.
Vedovell, Rudolph J., Kenilworth, assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill. Oil seal. 2,615,739, Oct. 28.
Venable, Walter H., Augusta, Ga. Kingpin lubrication. 2,615,765, Oct. 28.
Vickers-Armstrongs Limited, assignee: *See*—
Nasmith, John I., and Daniels.
Vines, Oscar L., New York, N. Y. Carrier for columnar articles. 2,615,612, Oct. 28.
Visco Products Company, assignee: *See*—
Kirkpatrick, Willard H., and Ryznar.
Kocher, Earl T.
Voigt, Charles A., assignee: *See*—
Pajuoja, William O.
Voigt, Paul G. A. H., Upper Norwood, London, England. Moving coil loud-speaker. 2,615,995, Oct. 28.
Voigt, Paul G. A. H., London, England. Magnet pole structure. 2,615,996, Oct. 28.
Wade, Marion E., Kansas City, Kans., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dielectric heating apparatus preferably for heating gasporous material. 2,615,259, Oct. 28.
Wagner, Herbert M., Asbury Park, N. J. Tracing characteristic curve of electronic tubes. 2,616,058, Oct. 28.
Wahlberg, Nils E., Chicago, Ill., and J. F. Sladky, Detroit, Mich., assignors to Nash-Kelvinator Corporation, Kenosha, Wis. Hand brake control. 2,615,350, Oct. 28.
Wahlbom, Ernest T., assignor of one-half to said Wahlbom, Rockford, Ill., and one-half to O. E. Griggs, East Hartford, Conn. Bottle carrier. 2,615,605, Oct. 28.
Waite, Amory H., Jr., Long Branch, N. J. Coaxial cable coupling. 2,615,953, Oct. 28.
Waldes Kohinoor, Inc., assignee: *See*—
Heimann, Heinrich, and Brozek.
Shur, Ira.
Walker, Arthur: *See*—
Atkins, Arthur A., Averns, and Walker.
Walker, Frank G., Minneapolis, Minn. Dish hold-down for dishwashing machines. 2,615,457, Oct. 28.
Wallace, Charles E., Jr., assignee: *See*—
Weathers, Maurice R.
Wallace, De Loss D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Hydrotilt. 2,615,499, Oct. 28.
Wallace, De Loss D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Bearing surface. 2,615,766, Oct. 28.
Waller, Coy W.: *See*—
Goldman, Angela A., and Waller.
Wallerstein Company, assignee: *See*—
Stone, Irwin.
Wallgren, August G. F., Stockholm, Sweden. Double row roller bearing. 2,615,767, Oct. 28.
Wallin, Charles M., and T. W. Frazier, Louisville, Ky. Sparkling barber pole. 2,615,266, Oct. 28.
Walter, Chesley M., assignee: *See*—
Granberg, Albert J.
Walton, Howard T.: *See*—
Ludwig, Leon R., Fockler, Formhals, and Walton.
Ward Leonard Electric Company, assignee: *See*—
Scheib, John, Jr.
Warner Bros. Pictures, Inc., assignee: *See*—
Tondreau, Albert W.
Washburn Company, The, assignee: *See*—
Lawrence, J. Richard.
Washburn, Frank, La Fayette, Ind., assignor of fifty per cent to W. O. Mayne, Pendleton, Oreg. Surface covering material. 2,615,210, Oct. 28.
Watchemoket Optical Co., Inc., assignee: *See*—
Ring, Ernest A.
Waters, Dorse M., Belmont, N. Y. Tool handle fastening. 2,615,247, Oct. 28.
Watkins, Wayne B., and K. W. Erge, Gloucester, N. J. Pivoted actuator for both fluid inlet and pressure relief valves. 2,615,598, Oct. 28.
Watson, Alexander N., East Cleveland, assignor of one-half to J. A. Rini, Shaker Heights, Ohio. Pipe fitting. 2,615,733, Oct. 28.
Weathers, Maurice R., assignor of fifty per cent to C. E. Wallace, Jr., Shelby, N. C. Line holding device for bricklayers. 2,615,253, Oct. 28.
Weber, Louis J., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heating chamber. 2,615,703, Oct. 28.
Wechter, William H., executor: *See*—
Tannenbaum, Morris L.
Weedman, John A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Crystallization apparatus. 2,615,793, Oct. 28.
Weeks, Robert R., Upton, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Stabilizer arrangement for cyclotrons and the like. 2,616,042, Oct. 28.
Weiler, Carl R.: *See*—
Glasener, Carl R., Willard, and Weiler.
Weintraub, Morris, assignee: *See*—
Thad, Theodore D.
Weiss, Leo H., assignee: *See*—
Hayman, George C.
Weitz, Norman A.: *See*—
Thompson, Ernest S., and Weitz.
Welding Engineers, Inc., assignee: *See*—
Fuller, Lawrence J.
Wells, Douglas S., Toronto, Ontario, Canada. Collapsible holder for landing nets. 2,615,272, Oct. 28.
Wells, Robert S., Rugby, England, assignor to General Electric Company. Producing magnesium arsenate phosphor activated by manganese. 2,615,848, Oct. 28.
Wendelken, Charles, Austin, Tex. Circumferentially traveling type tire removing tool. 2,615,507, Oct. 28.
Wendler, Norman L.: *See*—
Hirschmann, Ralph F. and Wendler.
Werner, Calvin J., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Antibacklash device. 2,615,315, Oct. 28.
Wertheim, Oscar and N. N. Moss, New York, N. Y. Soldering device. 2,615,415, Oct. 28.
Wesley, Robert O., and C. W. Sundberg, assignors to Dairy Manufacturing Company, Plymouth, Mich. Target set. 2,615,717, Oct. 28.
West, Fred W.: *See*—
Zerner, Ernst, Gradsten, and West.
Western Electric Company, Incorporated, assignee: *See*—
Gray, Alvin N.
Western Equipment Company, assignee: *See*—
Dumbleton, Harold F.
Westhaver, John L., San Diego, Calif. Motor drive for cameras. 2,615,347, Oct. 28.
Westinghouse Air Brake Company, assignee: *See*—
Kelley, Cecil S.

Westinghouse Electric Corporation, assignee: *See*—
Baker, Benjamin P., and Frisch.
Boyer, John L.
Brubaker, Wilson M.
Claybourn, Glen L., and Kocsis.
Coleman, Clarence B.
Coltman, John W.
Cuttino, William H.
Dickinson, Robert C., and Frink.
Enz, Vern E.
Frink, Russell E.
Hibbard, Lloyd J.
Kinn, Theodore P.
Lenehan, Bernard E.
Lincoln, Roland L.
Ludwig, Leon R., Fockler, Formhals, and Walton.
Macaluso, Francis L.
Marshall, Fitz-Hugh B.
Mitchell, William H.
Mosshart, Donald J.
Moynihan, John D.
Peck, Clarence E., and Hoop.
Wade, Marion E.

Whaley, Randall M.: *See*—
Lark-Horovitz, Karl, and Whaley.

Wheeler, Benjamin F., and H. R. Mathwich, Haddonfield, N. J., assignors to Radio Corporation of America. High-frequency mixer circuit. 2,616,037, Oct. 28.

Whelchel, Rupert C.: *See*—
Foust, Floyd J., Burk, and Whelchel.

White, Arthur J., Hempstead, assignor to American Can Company, New York, N. Y. Container with reclosure and shield device. 2,615,610, Oct. 28.

White, David, Company, The, assignee: *See*—
Rothweiler, Richard.

White, Evelyn M., assignee: *See*—
Baxter, Kirby.

White, Francis B.: *See*—
Dean, Dion K., and White.

Whitesel, Jack H., Seattle, Wash. Picnic box. 2,615,541, Oct. 28.

Whitlow, Eugene P.: *See*—
McNeely, Lowell, and Whitlow.

Whittington, Alice P., assignee: *See*—
Whittington, James A.

Whittington, James A., assignor of one-half to A. P. Whittington, Evanston, Ill. Gas burner having multiple primary air inlets. 2,615,509, Oct. 28.

Widmer, Willy, Bottmingen, and A. Fasciati, assignors to Ciba Limited, Basel, Switzerland. Aromatic sulfonic acid esters containing an amino group. 2,615,913, Oct. 28.

Wiles, Elwood, Portland, Oreg. Hanging bracket for illuminating tubes. 2,616,028, Oct. 28.

Wilken, George B., Escondido, Calif. Self-setting rodent trap. 2,615,278, Oct. 28.

Wilkins, Raymond A.: *See*—
Short, Brooks H., Wilkins, Shaw and Dyer.

Willard, Alfred R.: *See*—
Glasener, Carl R., Willard, and Weller.

Willard Storage Battery Company, assignee: *See*—
Glasener, Carl R., Willard, and Weller.

Williams, Charles C. W., assignor to Landis Tool Company, Waynesboro, Pa. Feeder for short articles. 2,615,184, Oct. 28.

Williams, Elmer R., assignor to F. L. Murdock, Sr., Tulsa, Okla. Apparatus for separating oil emulsion. 2,615,528, Oct. 28.

Williams, James V., Jr.: *See*—
Dayger, Jonas E., Shafer, Wooding, Sarley, and Williams.

Williams, Milton, Houston, Tex. Electrokinetic transducing method and apparatus. 2,615,940, Oct. 28.

Williams, Theodore S., Asbury Park, assignor to The M. W. Kellogg Company, Jersey City, N. J. Synthesis of organic compounds. 2,615,911, Oct. 28.

Willier, Henry O., Bethesda, Md. Recovery of precious metals from photographic baths. 2,615,839, Oct. 28.

Willshaw, William E., Kenton, assignor to M-O Valve Company, Ltd., London, England. Magnetron. 2,616,063, Oct. 28.

Willys-Overland Motors, Inc., assignee: *See*—
Junker, Alex J., and Koski.

Wilman, Donald, London, and R. A. Clarke, Isleworth, England, assignors to General Electric Company. Lighting fixture for elongated tubular lamps. 2,616,027, Oct. 28.

Wilson, Benjamin J.: *See*—
Murray, George E. R., and Wilson.

Wilson, Claude I., assignee: *See*—
Wilson, Earl F.

Wilson, Earl F., Carlton, Oreg., assignor of forty per cent to C. I. Wilson, Davenport, Calif. Fluid pressure actuated tire changer with circumferentially distributed thrust means. 2,615,506, Oct. 28.

Wilson, Harry C., Sherman Oaks, assignor to R. H. Clark, Los Angeles, Calif. Can opening mechanism. 2,615,240, Oct. 28.

Winchell, Laurence J., Fort Scott, Kans. Mowing attachment for power machinery. 2,615,292, Oct. 28.

Wing, Dee A., Newaygo, Mich. Gun sight. 2,615,252, Oct. 28.

Wingfoot Corporation, assignee: *See*—
Clifford, Albert M.
Du Pree, Sam.
Flory, Paul J.
Hardman, Albert F.
Karg, Charles A.
Lindstedt, Paul M.
Mallory, Gerald D., and Ten Broeck.

Winkler, Albert H., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,615,440, Oct. 28.

Winkler, Albert H., Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,615,695, Oct. 28.

Winkler, Albert H., assignor to Bendix Aviation Corporation, South Bend, Ind. Carburetor. 2,615,696, Oct. 28.

Winkler, De Loss E., Orinda, assignor to Shell Development Company, San Francisco, Calif. Polyvinyl chloride organosol compositions containing a non-volatile extract of petroleum. 2,615,858, Oct. 28.

Winther, Martin P., Gates Mills, Ohio, assignor to M. P. Winther, Waukegan, Ill., as trustee. Automatically controlled transmission. 2,615,349, Oct. 28.

Wisconsin Alumni Research Foundation, assignee: *See*—
Daniels, Farrington.

Wise, Elmer L., Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y. Tabulating mechanism. 2,615,552, Oct. 28.

Witham, George S., Hudson Falls, N. Y., assignor to The Bristol Company, Waterbury, Conn. Paper stock analyzer. 2,615,329, Oct. 28.

Witzke, Ernest C.: *See*—
Patterson, Ward S., and Witzke.

Wolff, William F.: *See*—
Proell, Wayne A., and Wolff.

Wolford, Clyde E., assignor to Taylor Instrument Companies, Rochester, N. Y. Leakless low friction bearing. 2,615,763, Oct. 28.

Wolforth, William C., Flint, assignor to Durand Metal Products Corporation, Saginaw, Mich. Corner stiffening and leg holding construction for collapsible metallic twin tubs. 2,615,593, Oct. 28.

Woller, Edward E., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Spring assembly. 2,615,180, Oct. 28.

Wooding, Edwin R.: *See*—
Dayger, Jonas E., Shafer, Wooding, Sarley, and Williams.

Woodward, Erwin, Atlanta, Ga. Self-cleaning valve. 2,615,465, Oct. 28.

Woolley, Bradford G., Providence, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass. Diaphragm controlled valve with bellows type seal. 2,615,468, Oct. 28.

Worthen, John H., Providence, R. I., assignor to Federal Products Corporation. Gauging apparatus. 2,615,254, Oct. 28.

Wright, Anna R., executrix: *See*—
Wright, Arthur.

Wright, Arthur, deceased, Upper Montclair, N. J.; A. R. Wright, executrix. Continuous rotary filter. 2,615,575, Oct. 28.

Wright, Patrick W.: *See*—
Taylor, Leonard F., and Wright.

Wyandotte Chemicals Corporation, assignee: *See*—
Liger, Andrew W.

Wyeth Incorporated, assignee: *See*—
Rosen, Harry, and Ichniowski.

Yale & Towne Manufacturing Company, The, assignee: *See*—
Quayle, George F.

Yendall, Edward F., Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Process and apparatus for eliminating impurities during the separation of gas mixtures. 2,615,312, Oct. 28.

Young, Arthur M., and R. Kelley, Buffalo, assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Helicopter engine-rotor support. 2,615,657, Oct. 28.

Young, Charles M., Schenectady, N. Y., assignor to General Electric Company. Stabilization system in aircraft autopilot. 2,615,658, Oct. 28.

Young, Edmond G.: *See*—
Benning, Anthony F., and Young.

Young, Einar T., Ridley Park, assignor to Sun Oil Company, Philadelphia, Pa. Pipe line metering device with bearing protection mechanism. 2,615,335, Oct. 28.

Young, Farrile S., assignor to Panhandle Eastern Pipe Line Co., Kansas City, Mo. Field compressor. 2,615,615, Oct. 28.

Young, Herbert, assignor to National Brass Company, Grand Rapids, Mich. Doorknob construction. 2,615,745, Oct. 28.

Young, Samuel D., Rugby, England. Closure applying mechanism. 2,615,608, Oct. 28.

Youtcheff, John S., Cincinnati, Ohio. Ground speed plotter. 2,615,625, Oct. 28.

Yowell, Howard L., Westfield, J. F. McKay, Jr., Cranford, and L. Z. Jasion, Elizabeth, N. J., assignors to Standard Oil Development Company. Herbicidal oil solutions of sodium trichloroacetate. 2,615,803, Oct. 28.

Zaslavsky, Sam, Jackson Heights, assignor to The Sperry Corporation, Great Neck, N. Y. Directional coupler. 2,615,982, Oct. 28.

Zbrojovka Brno, Narodni Podnik (Brno Arms Factory, National Corporation), assignee: *See*—
Koucký, Josef.

Zenith Radio Corporation, assignee: *See*—
Adler, Robert.
Adler, Robert, and Spracklen.
Hubbard, Malcolm M.
Mullaney, Ralph A.

Zerner, Ernst and M. Gradsten, New York, N. Y., and F. W. West, Peace Dale, R. I., assignors to Sun Chemical Corporation, New York, N. Y. Polymers of acrylyltriazine-aliphatic amine reaction products. 2,615,882, Oct. 28.

Zerner, Ernst and M. W. Pollock, assignors to Sun Chemical Corporation, New York, N. Y. Reaction products of nitriles. 2,615,887, Oct. 28.

Zerner, Ernst and M. W. Pollock, assignors to Sun Chemical Corporation, New York, N. Y. Reaction products of nitriles. 2,615,888, Oct. 28.

Zerner, Ernst, and M. W. Pollock, assignors to Sun Chemical Corporation, New York, N. Y. Reaction products of nitriles. 2,615,889, Oct. 28.

Zimmer, Frank: *See*—
Tomasek, Herbert F., and Zimmer.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Clapboard unit for wall coverings. C. M. Kinghorn. Re. 23,568, Oct. 28.

Device for inserting bolts in concrete. R. F. Sopris. Re. 23,569, Oct. 28.

LIST OF PLANT INVENTIONS

Peach tree. J. M. Garabedian. 1,141, Oct. 28.

LIST OF DESIGN INVENTIONS

Awning. M. E. Moore. 168,062, Oct. 28.
Bowl, Toilet. W. B. Cramer. 168,019, Oct. 28.
Bracket or the like. T. R. Symington. 168,074, Oct. 28.
Brooch or the like. A. Katz. 168,039–49, Oct. 28.
Brooch or the like. A. Philippe. 168,068–9, Oct. 28.
Centrifugal separator. C. F. Åller. 168,013, Oct. 28.
Chain, Ornamental. G. Armbrust. 168,014, Oct. 28.
Cigarette stand and holder, Combined. A. C. Kather. 168,038, Oct. 28.
Clock. A. E. Koplar. 168,052, Oct. 28.
Clock, lamp, and vase, Combined. F. R. Perry. 168,066, Oct. 28.
Communion set case, Portable. C. H. Rohlfing. 168,070, Oct. 28.
Cycle saddle. J. V. Lundy. 168,055, Oct. 28.
Desk. A. O. Garrett. 168,027–8, Oct. 28.
Desk tally. C. W. Braatz. 168,017, Oct. 28.
Dish. J. Hedu. 168,031, Oct. 28.
Display box, Ring. S. Tylon. 168,081, Oct. 28.
Display stand. C. E. Klingner. 168,051, Oct. 28.
Fork. J. C. Moore. 168,061, Oct. 28.
Game board for use with marbles. K. H. Ruyle. 168,071, Oct. 28.
Holder for desk articles. L. Edison. 168,025, Oct. 28.
Lamp. M. M. McDevitt. 168,060, Oct. 28.
Lamp and display device, Combination. I. Mark. 168,058, Oct. 28.
Lasagna macaroni. S. La Rosa. 168,054, Oct. 28.
Mirror, Detachable slide dental. L. R. Cohn. 168,018, Oct. 28.
Mixer body, Food. C. Karstadt. 168,037, Oct. 28.
Mixer, Food. W. E. Moore. 168,063, Oct. 28.
Mower housing, Rotary. C. T. Morris and T. E. Coners. 168,064, Oct. 28.
Nail clip. J. Haliniewski. 168,029, Oct. 28.
Necklace or the like. A. Katz. 168,050, Oct. 28.
Opener, Folding can and bottle. M. J. Laforte. 168,053, Oct. 28.
Opener, scaler, and screw driver, Combined can and bottle. J. L. Davis, Jr. 168,020, Oct. 28.
Ornamental initials for spectacle fronts, Set of. S.-E. Ish-Shalom. 168,034, Oct. 28.
Pan cover, Fry. H. G. Fornoff. 168,026, Oct. 28.
Parking lamp and mirror, Combined. H. Paine. 168,065, Oct. 28.
Pin clip or the like. A. Philippe. 168,067, Oct. 28.
Pitcher, Dripless. T. B. House. 168,033, Oct. 28.
Plate. A. L. Dragonetti. 168,023, Oct. 28.
Plate or similar article. G. J. Higginson. 168,032, Oct. 28.
Print unit for printing machines. W. Wockenfuss. 168,083, Oct. 28.
Shoe or similar article. H. Turiansky. 168,076–80, Oct. 28.
Sofa. H. W. Maurer. 168,059, Oct. 28.
Sofa bed. F. Wilson. 168,082, Oct. 28.
Spoon, Infant feeding. J. de Hymel. 168,021, Oct. 28.
Sprinkler, Clothes. N. Jacobs. 168,035, Oct. 28.
Stocking. S. Savitz. 168,072, Oct. 28.
Stocking. C. A. Scott. 168,073, Oct. 28.
Suspender belt, Lady's. H. H. Thorne. 168,075, Oct. 28.
Tablespoon or similar article. J. D. L. Bermudez. 168,016, Oct. 28.
Tire. H. W. Delzell. 168,022, Oct. 28.
Tire. P. E. Hawkinson. 168,030, Oct. 28.
Toy animal figure or the like. A. H. Bergler. 168,015, Oct. 28.
Vehicle, Railway. B. E. Jones and C. V. Norby. 168,036, Oct. 28.
Vending station, Combined food and beverage. L. A. Zon. 168,084, Oct. 28.
Visor for pilots' helmets. J. A. Margwarth. 168,057, Oct. 28.
Visor for spectacles or similar articles. R. P. Evans. 168,024, Oct. 28.
Wheel cover member or similar article. G. A. Lyon. 168,056, Oct. 28.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 28TH DAY OF OCTOBER, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acetoacetic acid amides, Manufacture of. W. Mueller. 2,615,917, Oct. 28.
Acrylamide, Preparation of. W. A. Raczynski. 2,615,918, Oct. 28.
Air break circuit interrupter. R. E. Frink. 2,616,006, Oct. 28.
Aircraft enclosure jettison system. R. D. Gardner, Jr., and F. C. Bretcher. 2,615,659, Oct. 28.
Air operated ball and roller bearing grease packer. J. E. Drury. 2,615,532, Oct. 28.
Air traffic control system. J. Lyman and G. B. Litchford. 2,616,076, Oct. 28.
Alarm for lubricating systems, Low-pressure. E. Topping. 2,615,419, Oct. 28.
Alimentary composition, Cooked tubular. P. E. Jean. 2,615,809, Oct. 28.
Alkaryl sulfonate detergents. K. M. Thompson. 2,615,847, Oct. 28.
Alkyl carbonates of lactates. C. E. Rehberg. 2,615,914, Oct. 28.
Alloys and rectifiers made thereof. K. Lark-Horovitz and R. M. Whaley. 2,615,966, Oct. 28.
Amplifier, Multistage cascade. B. M. Charchian. 2,615,998, Oct. 28.
Antenna, Multielement helix. A. E. Marston and M. D. Adcock. 2,616,046, Oct. 28.
Antibacklash device. C. J. Werner. 2,615,315, Oct. 28.
Antisprouting methods and compositions. W. Brown and H. C. Mellor. 2,615,801, Oct. 28.
Apparatus for assembling multiple part egg containers and the like. S. Bergstein. 2,615,378, Oct. 28.
Apparatus for cleaning eggs. J. M. and D. R. Gwin. 2,615,187, Oct. 28.
Apparatus for cleaning watches and watch parts. J. A. Persson. 2,615,455, Oct. 28.
Apparatus for comparing frequencies of electric oscillations. G. G. Gouriet and R. H. Hammans. 2,615,943, Oct. 28.
Apparatus for containing liquids with gases or vapors. O. G. Dixon. 2,615,700, Oct. 28.
Apparatus for dispersing gases in liquids. K. S. Valentine. 2,615,698, Oct. 28.
Apparatus for feeding ground materials. C. A. Matirko. 2,615,693, Oct. 28.
Apparatus for gauging thickness. W. C. McDonald. 2,616,068, Oct. 28.
Apparatus for indicia recognition. L. E. Flory and W. S. Pike. 2,615,992, Oct. 28.
Apparatus for maintaining liquid level in absorption refrigeration systems. L. McNeely and E. P. Whitlow. 2,615,311, Oct. 28.
Apparatus for making cross fin coils. S. Przyborowski. 2,615,237, Oct. 28.
Apparatus for making sealed packages. R. A. Farrell, W. G. Mueller, and A. Bartes, Jr. 2,615,377, Oct. 28.
Apparatus for measuring moisture in yarn. J. R. Spalding. 2,615,959, Oct. 28.
Apparatus for orienting and aligning cylindrical-shaped articles. P. R. Hoopes and G. C. Froelich. 2,615,556, Oct. 28.
Apparatus for producing coils of narrow strip fed thereto from a slitter. H. A. Ray. 2,615,645, Oct. 28.
Apparatus for reconditioning phonograph record disks. R. M. Somers. 2,615,197, Oct. 28.
Apparatus for reinforcing air hose. E. P. Harris and F. W. Sampson. 2,615,491, Oct. 28.
Apparatus for sampling pulp. S. P. H. E. Holgersson, M. S. Rudberg, and D. R. Rydberg. 2,615,339, Oct. 28.
Apparatus for seismic exploration. T. C. Poulter. 2,615,521, Oct. 28.
Apparatus for separating conjointly gathered bag tube walls. W. W. Rowe, C. L. Spangler, and R. C. Frick. 2,615,375, Oct. 28.
Apparatus for separating oil emulsion. E. R. Williams. 2,615,528, Oct. 28.
Apparatus for separating two-phase mixtures. G. J. Bacsik. 2,615,792, Oct. 28.
Apparatus for sowing seeds. G. Hyltén-Cavallius. 2,615,408, Oct. 28.
Apparatus for testing aeronautical equipment. E. Lundgren. 2,615,331, Oct. 28.
Apparatus for testing fluid pressure switches. F. J. Foust, D. R. Burk, and R. C. Whelchel. 2,615,327, Oct. 28.
Apparatus for utilizing the Hall effect. H. J. McCreary. 2,616,074, Oct. 28.
Applicator for wax and waxlike substances. M. J. Cohen. 2,615,447, Oct. 28.
Arc lamp. H. R. Benson. 2,616,059, Oct. 28.
Aromatic sulfonic acid esters containing an amino group. W. Widmer and A. Fasciati. 2,615,913, Oct. 28.
Article comprising cord bonded to rubber by a vinylpyridine adhesive. G. D. Mallory and T. R. Ten Broeck. 2,615,826, Oct. 28.
Article container and dispensing device. W. C. Van Clief, Jr. 2,615,774, Oct. 28.
Article conveyer and transfer mechanism. A. A. Kottmann. 2,615,553, Oct. 28.
Article distributor for conveyers. S. T. Carter. 2,615,555, Oct. 28.
Article of furniture. E. C. Lorentzen. 2,615,776, Oct. 28.
Article sorting conveyer unit. H. W. Ball and F. F. Stange. 2,615,566, Oct. 28.
Atomic air burst direction finder. G. A. Allard. 2,615,249, Oct. 28.
Auger type loader, Portable. G. A. Robinson. 2,615,560, Oct. 28.
Automatic accounting device. A. E. Hague. 2,615,628, Oct. 28.
Automatic book cutting-off device. W. A. Larkins. 2,615,410, Oct. 28.
Automatic fire and earthquake responsive cutoff valve. W. W. Crow. 2,615,461, Oct. 28.
Automatic forming machine for the manufacture of felt hats, muffs, and like felt articles. M. Cassé. 2,615,208, Oct. 28.
Automatic frequency control. R. S. Bailey. 2,616,049, Oct. 28.
Automatic gas piston operated firearm. J. Koucký. 2,615,370, Oct. 28.
Automatic old balance pickup means for accounting and like machines. R. W. Pitman. 2,615,623, Oct. 28.
Automatic pressure controlled valve system for fluid fuel burners. W. A. Ray. 2,615,511, Oct. 28.
Automatic temperature control. C. H. Fay and R. R. Goodell. 2,616,020, Oct. 28.
Automatic tuning system. C. B. Coleman. 2,616,066, Oct. 28.
Automatically controlled transmission. M. P. Winther. 2,615,349, Oct. 28.
Axonometric drawing device. H. M. Edmunds. 2,615,251, Oct. 28.
Backstay and sheet for sailing vessels, Combination. H. M. Dobbins. 2,615,417, Oct. 28.
Bactericidal and fungicidal composition. F. E. Lawlor and F. Casciani. 2,615,823, Oct. 28.
Bag closure. C. V. Brady and A. F. Ottinger. 2,615,488, Oct. 28.
Ball and socket mounting for mirrors and the like. J. M. Bindley. 2,615,368, Oct. 28.
Batch dielectric heating. T. P. Kinn. 2,616,025, Oct. 28.
Battery filler. J. E. Huskey. 2,615,607, Oct. 28.
Battery heating system. D. J. Carlson and H. T. Decot. 2,615,933, Oct. 28.
Battery liquid level indicator. G. E. Maybach. 2,615,337, Oct. 28.
Bearing: *See*—
Double row roller bearing.
Grid bearing.
Leakless low friction bearing.
Bearing surface. D. D. Wallace. 2,615,766, Oct. 28.
Beater and bowl arrangement for mixers. I. Jepson. 2,615,690, Oct. 28.
Belt type spinning reel. R. W. Flewelling. 2,615,649, Oct. 28.
Bent sheet detector. J. Simpson. 2,616,001, Oct. 28.
Benzothiophene anthraquinone dyestuffs. F. Max and W. Schmidt-Nickels. 2,615,898, Oct. 28.
Beverage maker, Automatic. F. S. Ranz. 2,615,384, Oct. 28.
Bicycle kick stand. L. C. Atwood and H. W. Clay. 2,615,729, Oct. 28.
Bit: *See*—
Detachable blade bit.
Bituminous emulsion. P. E. McCoy. 2,615,818, Oct. 28.
Bituminous emulsions. D. N. Manzer. 2,615,851, Oct. 28.
Black screen television cathode-ray tube. J. W. Coltman. 2,616,057, Oct. 28.
Blade edge welding technique. W. H. Stulen, M. Klein, and E. L. Tichenor. 2,615,236, Oct. 28.
Blinding device for pipe lines. L. S. Hamer. 2,615,473, Oct. 28.
Board: *See*—
Game board.
Bobber. P. I. Kissich. 2,615,276, Oct. 28.

Bobbin. T. E. Betner and J. R. Townsend. 2,615,650, Oct. 28.
Bonding vitreous enamels. A. E. Chester. 2,615,836, Oct. 28.
Borehole telemetering. R. A. Broding. 2,615,956, Oct. 28.
Bottle carrier. J. C. Kuchel. 2,615,749, Oct. 28.
Bottle carrier. W. L. O'Sullivan. 2,615,750, Oct 28.
Bottle carrier. E. T. Wahlbom. 2,615,605, Oct. 28.
Bowling ball and pin handling apparatus. G. A. Montooth and A. M. Bowen. 2,615,716, Oct. 28.
Box: *See*—
  Flower box. Picnic box.
Box top guard. P. M. and C. M. Allen. 2,615,239, Oct. 28.
Bracket: *See*—
  Safety ladder bracket.
Brake: *See*—
  Yarn brake.
Brake. W. G. Ransom. 2,615,536, Oct. 28.
Brake cylinder and slack adjuster, Combined. C. S. Kelley. 2,615,537, Oct. 28.
Brassière. F. V. Graf. 2,615,164, Oct. 28.
Breaking water-in-oil emulsions. W. H. Kirkpatrick and J. W. Ryznar. 2,615,853, Oct. 28.
Brush for cleaning Venetian blinds, Rotary. J. P. Morell. 2,615,192, Oct. 28.
Brush mechanism. W. H. Mitchell. 2,615,939, Oct. 28.
Bucket conveyer structure. H. W. Hapman. 2,615,557, Oct. 28.
Buckle for straps and the like. W. A. Bedford, Jr. 2,615,223, Oct. 28.
Buckle with fastener member on slider, Gripping slider type. R. E. Ross. 2,615,218, Oct. 28.
Building block machine. B. Regan. 2,615,228, Oct. 28.
Cable grip. E. T. Chamberlain, Jr. 2,615,402, Oct. 28.
Calling line identification system. J. W. Gooderham. 2,615,987, Oct. 28.
Cam actuated side jaw wrench. G. E. Garno. 2,615,358, Oct. 28.
Camera mount. A. E. Reeves. 2,615,664, Oct. 28.
Can opening mechanism. H. C. Wilson. 2,615,240, Oct. 28.
Canvas for fur garments or the like, Fitting. A. Fessler. 2,615,250, Oct. 28.
Cap: *See*—
  Sport cap.
Car top bow-supported tent. L. L. Jones. 2,615,458, Oct. 28.
Carbon paper holder for manifolding typewriters. J. C. Doyle. 2,615,731, Oct. 28.
Carburetor. E. Olson. 2,615,694, Oct. 28.
Carburetor. A. H. Winkler. 2,615,440, Oct. 28.
Carburetor. A. H. Winkler. 2,615,695–6, Oct. 28.
Cardio-active glycoside, Preparation of a. H. Rosen and C. T. Ichniowski. 2,615,884, Oct. 28.
Carrier: *See*—
  Bottle carrier.
Carrier for columnar articles. O. L. Vines. 2,615,612, Oct. 28.
Cart, Shopping. S. G. Brottman. 2,615,726, Oct. 28.
Case with heat-resistant rectractor and closure belt. J. G. Bradley. 2,615,772, Oct. 28.
Cash register. H. and S. Gross. 2,615,621, Oct. 28.
Cast pigmented plastic sheet. W. W. Ulmer and L. R. Burroughs. 2,615,271, Oct. 28.
Catalyst and process for ethylene oxide manufacture. G. W. Sears, Jr. 2,615,899, Oct. 28.
Catalytic gas generator. C. E. Peck and J. G. Hoop. 2,615,795, Oct. 28.
Catamenial appliance and garment, Combined. E. C. Brown. 2,615,449, Oct. 28.
Cathode-ray coding tube. W. M. Goodall. 2,616,060, Oct. 28.
Cattle feed conveying and dispensing apparatus. J. G. Spickler. 2,615,424, Oct. 28.
Centrifugal diffuser. C. B. Smith. 2,615,301, Oct. 28.
Centrifugal governor having a series of radially shiftable, motion transmitting bell crank levers. J. T. Crowder. 2,615,462, Oct. 28.
Centrifugal spring support type speed responsive device. F. P. Vacha. 2,615,704, Oct. 28.
Chain tightener. E. A. Stuller. 2,615,217, Oct. 28.
Chair: *See*—
  Collapsible chair.
Chair construction. T. A. Friedlander. 2,615,505, Oct. 28.
Chair-stick, Collapsible. A. F. Ciaramella. 2,615,494, Oct. 28.
Change maker. E. F. Leese. 2,615,454, Oct. 28.
Changing the direction of carriage movements in typewriters. E. Ascoli. 2,615,546, Oct. 28.
Chart, Computation. A. I. Sorrels. 2,615,631, Oct. 28.
Chemical compounds and preparing the same. R. F. Hirschmann and N. L. Wendler. 2,615,902, Oct. 28.
Chick shipping container. P. F. Paul and R. Capps. 2,615,611, Oct. 28.
Christmas tree holder. J. Haumann. 2,615,660, Oct. 28.
Circuit: *See*—
  High-frequency mixer cir- Nonrepeat control circuit.
  cuit.
Circuit breaker lever. H. V. Elliott. 2,616,011, Oct. 28.
Circuit interrupter. R. C. Dickinson and R. E. Frink. 2,616,007, Oct. 28.
Circumferentially traveling type tire removing tool. C. Wendelken. 2,615,507, Oct. 28.
Clamp: *See*—
  Drum ring clamp. Ladder clamp.
  Internal pipe aligning clamp.
Clamping device. D. H. Stent. 2,615,678, Oct. 28.
Clasp coupling for jewelry, Magnetic. F. Hornik. 2,615,227, Oct. 28.
Cleaner: *See*—
  Diesel engine filter cleaner. Telephone dial cleaner.
  Rearwardly discharging tank type suction cleaner.
Clock, Universal and ordinary. R. Ferrari. 2,615,298, Oct. 28.
Closure applying mechanism. S. D. Young. 2,615,608, Oct. 28.
Clothes hanger. F. E. Tripp. 2,615,580, Oct. 28.
Clothesline container. E. Moe. 2,615,582, Oct. 28.
Clothespin. A. E. Linton and E. Tillinger. 2,615,221, Oct. 28.
Clutch: *See*—
  Spring type clutch.
Clutch and brake for steering vehicles. R. G. Le Tourneau. 2,615,542, Oct. 28.
Clutch and pulley, Combined. P. F. Koch. 2,615,343, Oct. 28.
Coated granular explosive composition. C. D. Goodale. 2,615,800, Oct. 28.
Coaxial cable coupling. A. H. Waite, Jr. 2,615,953, Oct. 28.
Coaxial socket contact. T. W. Hecking. 2,615,949, Oct. 28.
Coconut. C. W. Kaufman and C. B. de Maya. 2,615,812, Oct. 28.
Coin computing device for coin-controlled vending machines. H. J. Dolman. 2,615,545, Oct. 28.
Collapsible chair. G. J. Thomas. 2,615,500, Oct. 28.
Collar stay. W. M. Sarff. 2,615,167, Oct. 28.
Collet. G. O. Gridley. 2,615,721, Oct. 28.
Color stabilized N,N′-di-(sec.-butyl)-p-phenylenediamine. C. B. Biswell. 2,615,919, Oct. 28.
Color television, pickup system. F. J. Darke, Jr. 2,615,974, Oct. 28.
Color television receiving system. G. C. Szikiai. 2,615,975, Oct. 28.
Color television system. A. Rose. 2,615,976, Oct. 28.
Combination window. O. J. Niquette. 2,615,711, Oct. 28.
Combined slidable jaw wire cutting and holding tool. J. H. McGaughey. 2,615,181, Oct. 28.
Combustion chamber for gas turbines and having flame tube mounting means allowing radial and axial expansion. A. A. Lombard. 2,615,300, Oct. 28.
Composite sync dissector. R. P. Abbenhouse. 2,615,979, Oct. 28.
Compositions for treating keratin-containing materials. J. W. Haefele. 2,615,828, Oct. 28.
Compressed gas circuit interrupter. B. P. Baker and E. Frisch. 2,616,008, Oct. 28.
Compressive shrinking of webs. S. L. Cluett. 2,615,230, Oct. 28.
Compressor. M. R. A. Chabay. 2,615,618, Oct. 28.
Concentrating carotenes. H. J. Passino. 2,615,927, Oct. 28.
Concentrating sewage sludges, Method of and apparatus for. L. S. Kraus. 2,615,842, Oct. 28.
Condenser: *See*—
  Impregnated electrical condenser.
Condition regulating apparatus. T. K. Greenlee. 2,616,013, Oct. 28.
Connector: *See*—
  Electrical terminal connector. Linkage connector.
  Electrical clasp connector. Skirt and blouse connector.
Consolidating soils. W. Kjellman. 2,615,307, Oct. 28.
Constant velocity universal joint. A. H. Rzeppa. 2,615,317, Oct. 28.
Contact printing machine with phototype. J. F. Murphy. 2,615,380, Oct. 28.
Contacting liquids with gases or vapors. O. G. Dixon. 2,615,699, Oct. 28.
Container: *See*—
  Chick shipping container. Self-heating container.
  Clothesline container.
Container for peat moss and the like, Fungus inhibiting. F. R. Linda. 2,615,614, Oct. 28.
Container with reclosure and shield device. A. J. White. 2,615,610, Oct. 28.
Container with telescoping closure. H. C. Reeser. 2,615,613, Oct. 28.
Continuous-flow press for removing moisture from material such as bark, bagasse, peat moss, and the like. H. S. Messing. 2,615,387, Oct. 28.
Continuous rotary filter. A. Wright. 2,615,575, Oct. 28.
Continuously variable-speed turntable driving system. R. A. Mullaney. 2,615,342, Oct. 28.
Contour gauge. H. L. Olson. 2,615,256, Oct. 28.
Control and indicating means. H. T. Marcy, E. Mayer, and J. F. Reeves. 2,615,490, Oct. 28.
Control of steam temperature. J. D. Kuppenheimer. 2,615,435, Oct. 28.
Control unit for milking machines. A. G. Perkins. 2,615,423, Oct. 28.

Conversion of nitroamines to lower amines. C. T. Bahner. 2,615,920, Oct. 28.
Converter. R. Adler. 2,616,033, Oct. 28.
Conveyer mechanism for spring cambering machine. G. R. Reed. 2,615,558, Oct. 28.
Conveyer system for vehicles. F. A. Beyer and R. A. Bradley. 2,615,587, Oct. 28.
Copolymers of vinylidene cyanide and isopropenyl esters. H. Gilbert and F. F. Miller. 2,615,875, Oct. 28.
Copolymers of vinylidene cyanide and propylene. H. Gilbert and F. F. Miller. 2,615,874, Oct. 28.
Copolymers of vinylidene cyanide and vinyl esters of alpha-halogen substituted acids. H. Gilbert and F. F. Miller. 2,615,876, Oct. 28.
Copolymers of vinylidene cyanide with aliphatic conjugated diolefins. S. J. Averill. 2,615,873, Oct. 28.
Copolymers of vinylidene cyanide with alkyl acrylates. V. L. Folt. 2,615,880, Oct. 28.
Copolymers of vinylidene cyanide with alkyl methacrylates. V. L. Folt. 2,615,871, Oct. 28.
Copolymers of vinylidene cyanide with alpha-substituted esters of acrylic acid. V. L. Folt and H. Gilbert. 2,615,879, Oct. 28.
Copolymers of vinylidene cyanide with halogenated butadiene-1,3 hydrocarbons. S. J. Averill. 2,615,872, Oct. 28.
Copolymers of vinylidene cyanide with monoolefins. A. E. Ardis. 2,615,865, Oct. 28.
Copolymers of vinylidene cyanide with 1,2-dihalo ethylenes. V. L. Folt. 2,615,878, Oct. 28.
Copolymers of vinylidene cyanide with styrene and substituted styrenes. F. F. Miller. 2,615,868, Oct. 28.
Copolymers of vinylidene cyanide with 2-mono-halogenated monoolefins. V. L. Folt. 2,615,877, Oct. 28.
Copolymers of vinylidene cyanide with vinyl chloride. V. L. Folt. 2,615,869, Oct. 28.
Copolymers of vinylidene cyanide with vinyl esters. H. Gilbert and F. F. Miller. 2,615,866, Oct. 28.
Copolymers of vinylidene cyanide with vinyl esters of aromatic acids. H. Gilbert and F. F. Miller. 2,615,867, Oct. 28.
Copolymers of vinylidene cyanide with vinylidene chloride. V. L. Folt. 2,615,870, Oct. 28.
Cord inserting device. C. P. Dyken. 2,615,290, Oct. 28.
Cork cutting machine. K. Lober. 2,615,480, Oct. 28.
Corner stiffening and leg holding construction for collapsible metallic twin tubs. W. C. Wolforth. 2,615,593, Oct. 28.
Corrosion inhibiting composition. G. D. Galvin and A. E. McAulay. 2,615,815, Oct. 28.
Cottonseed meal, Preparation of. J. V. Rice. 2,615,808, Oct. 28.
Coupler for wave transmission lines. I. Kamen. 2,615,948, Oct. 28.
Coupling: *See*—
  Coaxial cable coupling.
  Rotary turbine type fluid coupling.
Crate unloader. P. E. Fischer. 2,615,746, Oct. 28.
Credit verification for subscription type television systems. M. M. Hubbard. 2,615,972, Oct. 28.
Creel. A. A. Atkins, H. M. Averns, and A. Walker. 2,615,653, Oct. 28.
Cross feed cutter. J. F. Halstead. 2,615,451, Oct. 28.
Crystal amplifier device. S. F. Amico. 2,615,965, Oct. 28.
Crystallization apparatus. A. O. Shelby. 2,615,794, Oct. 28.
Crystallization apparatus. J. A. Weedman. 2,615,793, Oct. 28.
Cushioning and silencing mechanical tappet. J. W. Humphreys. 2,615,439, Oct. 28.
Cushioning means. O. R. Rowe and W. J. Stolp. 2,615,707, Oct. 28.
Cuticle pusher. I. S. Ohman. 2,615,453, Oct. 28.
Cutter: *See*—
  Cross feed cutter. Sheet cutter.
  Rotary disk cutter. Window shade cutter.
Cutting attachment for land-clearing equipment. C. E. Reid, Sr. 2,615,262, Oct. 28.
Cutting projecting gear teeth. S. S. Cook and L. M. Douglas. 2,615,359, Oct. 28.
Cyclic control system for burners or other condition changers. J. A. Deubel. 2,615,508, Oct. 28.
Cyclone disintegrator. A. Bittner. 2,615,637, Oct. 28.
Decimal point indicator for calculating machines. A. B. Machado. 2,615,632, Oct. 28.
Decolorizing and sterilizing spices. B. T. Malter. 2,615,813, Oct. 28.
Degraded allyl starch, Preparation of. K. C. Hobbs. 2,615,885, Oct. 28.
Delineator for determining the length and end form of connecting pipes. R. C. Rankin. 2,615,255, Oct. 28.
Demulsifying chemicals and breaking emulsions. E. T. Kocher. 2,615,852, Oct. 28.
Densitometer. J. Dolza. 2,615,328, Oct. 28.
Derrick, Collapsible. M. E. Pelaez. 2,615,538, Oct. 28.
Desulfurization of hydrocarbon mixtures with nickel carbonyl. R. B. Bishop and W. I. Denton. 2,615,831, Oct. 28.
Detachable blade bit. H. J. Hawthorne. 2,615,684, Oct. 28.
Detonating explosion type rivets. S. T. Special. 2,615,591, Oct. 28.
Device for automatically removing window cutouts from blanks. A. Pelikan. 2,615,376, Oct. 28.
Device for brewing or infusing tea or other beverages. A. Small. 2,615,385, Oct. 28.
Device for cutting designs in frankfurters. J. Ohanian. 2,615,196, Oct. 28.
Device for handling pipes. M. E. True. 2,615,681, Oct. 28.
Device for mixing, stirring, emulsifying, etc. H. Müller. 2,615,692, Oct. 28.
Device for photographically printing on textile fibers. T. Haefeli. 2,615,381, Oct. 28.
Device for removing mud and dirt from shoes. L. L. Siegel. 2,615,188, Oct. 28.
Device for the polyphase transformation of the frequency of three-phase circuits. U. Corbino. 2,616,070, Oct. 28.
Device for wrapping hollow packages. H. J. McDermott. 2,615,606, Oct. 28.
Dewatering thermoplastic resinous materials. P. M. Lindstedt. 2,615,206, Oct. 28.
Diaper storage device. M. F. Swinney. 2,615,489, Oct. 28.
Diaphragm for electrostatic loud-speakers. T. Lindenberg and G. T. Loughlin. 2,615,994, Oct. 28.
Dielectric heating apparatus preferably for heating gas-porous material. M. E. Wade. 2,615,259, Oct. 28.
Dielectric material inspection system. H. P. Hubertz. 2,615,964, Oct. 28.
Diesel engine filter cleaner. E. E. Galusha. 2,615,456, Oct. 28.
Diesel fuel. E. J. Martin. 2,615,799, Oct. 28.
Direct acting friction shock absorber. J. R. Snyder. 2,615,535, Oct. 28.
Directional coupler. S. Zaslavsky. 2,615,982, Oct. 28.
Dish hold-down for dishwashing machines. F. G. Walker. 2,615,457, Oct. 28.
Dispenser: *See*—
  Lather dispenser.
Dispenser for cutting and supporting tape. T. J. Di Cicco. 2,615,517, Oct. 28.
Dispenser, including a pair of adjacent rollers, Collapsible tube. H. L. Ivins. 2,615,595, Oct. 28.
Dispensing implement, Perfume. M. M. Alexander. 2,615,758, Oct. 28.
Dispensing valve for liquid and gas containers. H. F. Tomasek and F. Zimmer. 2,615,597, Oct. 28.
Dispersion apparatus. K. S. Valentine. 2,615,697, Oct. 28.
Display stand. R. J. Johnson. 2,615,583, Oct. 28.
Distillation of metals. T. R. A. Davey. 2,615,706, Oct. 28.
Distributor means for pulverized fuel burners. J. J. Ragusan. 2,615,407, Oct. 28.
Divider blade mechanism for materials separating machines. R. H. Johnson. 2,615,571, Oct. 28.
Door for vehicles. E. H. Hickling, F. Cheffings, and W. Butlin. 2,615,514, Oct. 28.
Doorknob construction. H. Young. 2,615,745, Oct. 28.
Door pull and catch, Rotary. A. Colonna. 2,615,744, Oct. 28.
Double row roller bearing. A. G. F. Wallgren. 2,615,767, Oct. 28.
Dough molding and dough sheeting material. E. M. Crosland and J. F. Naylor. 2,615,404, Oct. 28.
Drain digger and cleaner. H. Barras. 2,615,263, Oct. 28.
Drilling apparatus. R. A. McCallum. 2,615,683, Oct. 28.
Driving and recording mechanism for calipering devices. P. E. Chaney and W. E. Barnes. 2,615,779, Oct. 28.
Drum clamp device. J. G. Imparato. 2,615,220 Oct. 28.
Drum ring clamp. Js. G. Imparato. 2,615,219, Oct. 28.
Drum stand. W. J. Sannebeck. 2,615,662, Oct. 28.
Dummy intruder for intruder detection systems. S. M. Bagno. 2,615,970, Oct. 28.
Dump body structure. J. H. Shipe. 2,615,753, Oct. 28.
Duplicating machine with multiple feed trays, Rotary. R. M. Ford. 2,615,391, Oct. 28.
Dyeing cellulose acetate fibers in a mixed acetate-nylon fabric using an aqueous solution of an acid dye, ethyl alcohol, acetic acid, and either sodium or ammonium thiocyanate. H. C. Olpin and D. L. Bell. 2,615,781, Oct. 28.
Dynamoelectric machine. W. L. Carlson. 2,615,944, Oct. 28.
Dynamoelectric machine. R. L. Jaeschke. 2,616,069, Oct. 28.
Ear muff frame and mounting. R. E. Maxant. 2,615,169, Oct. 28.
Edge roll for spring structures. W. S. Cook and F. J. Hormuth. 2,615,504, Oct. 28.
Elastic thread laying attachment for sewing machines. R. S. Nogler and S. D. Menzies. 2,615,409, Oct. 28.
Electric heater control. P. J. Guillot and H. R. Karp. 2,616,019, Oct. 28.
Electric switch. H. C. Swan. 2,616,005, Oct. 28.
Electric terminal connector. F. S. Lamb. 2,615,950, Oct. 28.
Electrical clasp connector. M. D. Bergan and M. A. Graham. 2,615,736, Oct. 28.
Electrical converter. W. M. Brubaker. 2,616,045, Oct. 28.
Electrical power line warning device for vehicles with extended booms. A. H. Albrecht. 2,615,969, Oct. 28.
Electrical system for prolonging life of coated cathodes. C. W. Hansell. 2,616,040, Oct. 28.

Electrode holder for use in inert gas-shielded arc welding. N. E. Anderson. 2,616,017, Oct. 28.
Electrokinetic transducing method and apparatus. M. Williams. 2,615,940, Oct. 28.
Electrolytic method to remove rust. A. A. G. Chapman. 2,615,840, Oct. 28.
Electrolytic process of producing alkali and alkaline earth metals. L. J. Minnick and C. Presgrave. 2,615,838, Oct. 28.
Electromagnetic switch. J. Scheib, Jr. 2,616,010, Oct. 28.
Electromechanical filter. M. L. Doelz. 2,615,981, Oct. 28.
Electronic oscillatory device. H. M. O'Neill. 2,616,043, Oct. 28.
Electronically operated advertising and sound reproducing apparatus. M. A. Carter. 2,615,993, Oct. 28.
Electroplating bath and process. A. W. Liger. 2,615,837, Oct. 28.
Electrostatic precipitator. R. L. Lincoln. 2,615,529, Oct. 28.
Electrostatically-focused rotary radial beam tube. P. W. Charton. 2,616,061, Oct. 28.
Eliminating impurities during the separation of gas mixtures, Process and apparatus for. E. F. Yendall. 2,615,312, Oct. 28.
Elimination of and accumulator in a hydrocarbon conversion process. J. V. Jolly. 2,615,928, Oct. 28.
Engine: *See*—
  Planetary type engine.
Esterified allyl ester-polycarboxylic acid copolymers. J. J. Giammaria. 2,615,864, Oct. 28.
Excess flow check valve. J. A. Neubauer. 2,615,676, Oct. 28.
Excitation system. M. A. Edwards, D. E. Garr, and H. M. Ogle. 2,616,072, Oct. 28.
Expanding mandrel. V. E. Enz. 2,615,644, Oct. 28.
Extension ladder and lock therefor. R. O. Balogh and E. G. Humpal. 2,615,609, Oct. 28.
Extracting cores of soil from the ground. W. Kjellman and T. K. E. Kallstenius. 2,615,680, Oct. 28.
Extraction of cerium with an organic solvent. E. C. Pitzer. 2,615,798, Oct. 28.
Fan and power supply means therefor, Oscillating electric. F. G. Andersen. 2,615,619, Oct. 28.
Fan belt tool. R. H. Ross. 2,615,345, Oct. 28.
Fan-cooled motor. L. R. Ludwig, T. C. Fockler, W. H. Formhals, and H. T. Walton. 2,615,937, Oct. 28.
Fan motor mount on ventilating panel. A. D. Goettl. 2,615,620, Oct. 28.
Fast neutron dosimeter. G. S. Hurst. 2,616,052, Oct. 28.
Fastener: *See*—
  Paper fastener.
  Turn-in stud mounting molding snap fastener.
Fastening device. E. T. Churchman. 2,615,362, Oct. 28.
Fastening device. R. Niva. 2,615,743, Oct. 28.
Feeder for short articles. C. C. W. Williams. 2,615,184, Oct. 28.
Feeding device for sheet material. E. C. Sauerman. 2,615,390, Oct. 28.
Fertilizer distributor. J. Blue. 2,615,596, Oct. 28.
Field compressor. F. S. Young. 2,615,615, Oct. 28.
Field control of electromagnetic couplings. R. L. Jaeschke. 2,615,945, Oct. 28.
File, fingernail clipper, and pocket clip, Combination fingernail. R. J. Franklin. 2,615,242, Oct. 28.
Filing aid. E. A. Dahlgren. 2,615,576, Oct. 28.
Film identifying device. R. Rothweiler. 2,615,366, Oct. 28.
Filter: *See*—
  Continuous rotary filter.
  Electromechanical filter.
  Horizontal plate filter.
  Oil filter.
  Pulse width separation filter.
Filter media. W. P. Crawley. 2,615,477, Oct. 28.
Fishhook holder. A. C. De Mello. 2,615,275, Oct. 28.
Fish lure. P. F. Slough. 2,615,274, Oct. 28.
Fishing line reel. P. C. Palmer and H. W. James. 2,615,647, Oct. 28.
Fittings for coupling the ends of tubes, Making. O. P. Hadley. 2,615,235, Oct. 28.
5,7-bisdehydrosteroids, Preparation of. J. S. Buck and B. F. Tullar. 2,615,904, Oct. 28.
Flare housing with simultaneously operated wick hood capping means on closure. W. O. Pajuoja. 2,615,561, Oct. 28.
Flask turnover for foundry molding machines. S. J. Gedris. 2,615,588, Oct. 28.
Flat terminal element for condenser foil. J. Katzman. 2,615,946, Oct. 28.
Float-operated mechanism. L. C. Barling and G. R. Beith. 2,615,174, Oct. 28.
Float-switch assembly. D. H. MacDonald. 2,616,003, Oct. 28.
Floor section for refrigerator vehicles, Extruded. J. J. Black. 2,615,751, Oct. 28.
Flower box. W. M. Perdue. 2,615,589, Oct. 28.
Fluid controlled switch. M. T. Richards. 2,616,004, Oct. 28.
Fluid fuse. A. J. Meilert. 2,615,675, Oct. 28.
Fluid operable shutter release. K. C. De Groff. 2,615,379, Oct. 28.
Fluid pressure apparatus and valve means therefor. H. L. Burns. 2,615,463, Oct. 28.
Fluid pump. T. M. Mock. 2,615,401, Oct. 28.
Flushing cistern. J. L. Pegler. 2,615,173, Oct. 28.
Fold catching mechanism for cloth piling machines. H. W. Springer. 2,615,712, Oct. 28.
Food warmer, Electric. J. W. O'Brien. 2,616,021, Oct. 28.
Foot and leg rest. E. E. Enge. 2,615,503, Oct. 28.
Forging apparatus and control thereof. R. L. Alcorn, Jr. 2,615,306, Oct. 28.
Form feeding mechanism for typewriters. A. H. Sharpe. 2,615,550, Oct. 28.
Forming and curing plastic compounds. S. Du Pree. 2,615,203, Oct. 28.
Fountain, Double walled. J. R. Berry. 2,615,425, Oct. 28.
Frequency converter. W. W. Hansen and R. H. Varian. 2,616,038, Oct. 28.
Fungicidal and insecticidal preparations. A. J. Shmidl. 2,615,827, Oct. 28.
Furnace: *See*—
  Heat-treating furnace.
  Industrial bath furnace.
Furnace control device. F. Harbin, Jr. 2,615,634, Oct. 28.
Gain control circuit utilizing keyed magnetic amplifier. G. C. Sziklai and F. J. Darke, Jr. 2,615,977, Oct. 28.
Game board. R. L. Robbins, Jr. 2,615,718, Oct. 28.
Garment hanger. F. L. Durr. 2,615,603, Oct. 28.
Garment hanger and form board. E. S. Thompson and N. A. Weitz. 2,615,602, Oct. 28.
Garment, Knitted. M. A. Mintz and G. W. Loveland. 2,615,170, Oct. 28.
Garment, Man's apparel. A. P. Rowan. 2,615,166, Oct. 28.
Gas burner having multiple primary air inlets. J. A. Whittington. 2,615,509, Oct. 28.
Gas burner head. R. E. James and A. J. Lampert. 2,615,510, Oct. 28.
Gas pressure regulator. J. S. Senesky. 2,615,287, Oct. 28.
Gauge: *See*—
  Contour gauge.
Gauging apparatus. J. H. Worthen. 2,615,254, Oct. 28.
Gear transmission system. J. L. Christmann. 2,615,341, Oct. 28.
Generator: *See*—
  Catalytic gas generator.
  Pulse generator.
  Sawtooth wave voltage generator.
Generator control. W. J. Rady. 2,616,054, Oct. 28.
Generator regulator. B. H. Short, R. A. Wilkins, G. B. Shaw, and J. W. Dyer. 2,616,073, Oct. 28.
Glass compositions. J. E. Stanworth and A. E. Dale. 2,615,817, Oct. 28.
Glass solder. A. P. Dovey, M. Manners, and J. H. Partridge. 2,615,816, Oct. 28.
Glass tube reshaping apparatus. R. E. Gosnell and A. F. Casler. 2,615,285, Oct. 28.
Glass tubulature for feeding mercury. M. Pipkin. 2,615,472, Oct. 28.
Gluing device. R. E. Ackley. 2,615,422, Oct. 28.
Gocart, Folding. N. H. Person. 2,615,725, Oct. 28.
Goggles, Cold weather. W. R. Christensen and C. E. Cross. 2,615,162, Oct. 28.
Grab. W. J. Olson. 2,615,747–8, Oct. 28.
Grater, Vegetable. W. Marcus. 2,615,486, Oct. 28.
Grid bearing. A. W. Schluchter. 2,615,768, Oct. 28.
Grinding and sharpening machine. L. R. Higgins. 2,615,354, Oct. 28.
Grinding apparatus. E. Stephansen. 2,615,638, Oct. 28.
Grinding machine. W. S. Klay and R. E. Price. 2,615,288, Oct. 28.
Ground speed plotter. J. S. Youtcheff. 2,615,625, Oct. 28.
Growing piezoelectric crystals. M. Bruzau. 2,615,797, Oct. 28.
Gun sight. D. A. Wing. 2,615,252, Oct. 28.
Hair trimmer. R. M. Brown. 2,615,243, Oct. 28.
Hair trimmer, Reversible. W. M. Mansfield. 2,615,244, Oct. 28.
Halogenoalkanenitriles. E. C. Ladd. 2,615,915, Oct. 28.
Hand brake control. N. E. Wahlberg and J. F. Sladky. 2,615,350, Oct. 28.
Handle for bucksaws. J. W. Canter. 2,615,485, Oct. 28.
Hanger: *See*—
  Clothes hanger.
  Garment hanger.
  Pants hanger.
Hanging bracket for illuminating tubes. E. Wiles. 2,626,028, Oct. 28.
Harvester, Bean. J. Sisho. 2,615,295, Oct. 28.
Hat retainer means. H. M. Birch. 2,615,452, Oct. 28.
Header and tubes of a forced circulation steam generator. W. S. Patterson and E. C. Witzke. 2,615,434, Oct. 28.
Heat exchange method. C. C. Brumbaugh. 2,615,688, Oct. 28.
Heat exchanger. L. L. Simmons. 2,615,687, Oct. 28.
Heat radiator for electron discharge devices. R. C. Fortin. 2,616,055, Oct. 28.
Heat transfer device. J. Davidson. 2,615,686, Oct. 28.
Heat-treating furnace. H. N. Ipsen. 2,615,701, Oct. 28.
Heater: *See*—
  Instant liquid heater.
  Portable crop heater.
Heater. G. F. Shaver. 2,615,444, Oct. 28.
Heavy duty gas depolarized dry battery. M. R. Hatfield. 2,615,931, Oct. 28.
Helicopter engine-rotor support. A. M. Young and B. Kelley. 2,615,657, Oct. 28.

Herbicidal composition. W. D. Stewart and J. H. Standen. 2,615,804, Oct. 28.
Herbicidal composition and method. H. E. Bruner. 2,615,802, Oct. 28.
Herbicidal oil solutions of sodium trichloroacetate. H. L. Yowell, J. F. McKay, Jr., and L. Z. Jasion. 2,615,803, Oct. 28.
High boiling mercaptan production. W. A. Proell and W. F. Wolff. 2,615,786, Oct. 28.
High-frequency apparatus for severing vitreous articles. M. Descarsin. 2,615,286, Oct. 28.
High-frequency mixer circuit. B. F. Wheeler and H. R. Mathwich. 2,616,037, Oct. 28.
High voltage measuring apparatus. L. Mackta. 2,615,934, Oct. 28.
Hinge, Adjustable. S. J. Kreiner. 2,615,194, Oct. 28.
Hoist, Hydraulic. E. J. Adams. 2,615,584, Oct. 28.
Holder: *See*—
  Christmas tree holder.
  Fishhook holder.
  Pipe holder.
  Tank clamp support holder.
Holder for landing nets, Collapsible. D. S. Wells. 2,615,272, Oct. 28.
Hook setter for fishing tackle. C. F. Meller. 2,615,273, Oct. 28.
Horizontal plate filter. A. C. Kracklauer. 2,615,574, Oct. 28.
Horizontal retort with reciprocating agitator. F. E. Poindexter and F. W. Lowe. 2,615,834, Oct. 28.
Hose reel. H. B. Crawford. 2,615,755, Oct. 28.
Hose reel. A. J. Granberg. 2,615,756, Oct. 28.
Hothouse, hotbed, and domestic heating system. J. T. Norman. 2,615,635, Oct. 28.
Household food mixer. W. F. Bisley. 2,615,691, Oct. 28.
Hub. J. M. Leake. 2,615,764, Oct. 28.
Hubcap. P. D. Becker. 2,615,759, Oct. 28.
Hydantoins containing basic substituents. W. Persch and A. P. C. Schmidt. 2,615,897, Oct. 28.
Hydraulic control for mechanisms. W. T. Blake. 2,615,534, Oct. 28.
Hydraulic control system with automatic stop. A. A. Meddock. 2,615,432, Oct. 28.
Hydraulic control unit. C. E. Deardorff and A. A. Meddock. 2,615,433, Oct. 28.
Hydraulic master brake cylinder having bleeding means. M. V. Groves. 2,615,304, Oct. 28.
Hydraulic mechanism for actuating valves. P. T. Tucker. 2,615,438, Oct. 28.
Hydraulic press. L. A. Camerota. 2,615,302, Oct. 28.
Hydraulic transmitter mechanism. N. C. Jannsen. 2,615,305, Oct. 28.
Hydraulic work hardening, Method and apparatus for. W. S. Clevenger and J. S. and S. G. Cohen. 2,615,411, Oct. 28.
Hydrocarbon oxidation. C. F. Dougherty, Jr., and C. C. Chapman. 2,615,921, Oct. 28.
Hydrotilt. D. D. Wallace. 2,615,499, Oct. 28.
Ice stage, Sectionalized portable. I. A. Thorns. 2,615,308, Oct. 28.
Ignition system. B. H. Short. 2,616,065, Oct. 28.
Ignition timing device for internal-combustion engines, including distributor rotating and locking means. L. Rider. 2,615,929, Oct. 28.
Impedance-matching and standing-wave-ratio measuring system. E. N. Phillips. 2,615,958, Oct. 28.
Impedance matching apparatus. F. L. Macaluso. 2,615,947, Oct. 28.
Impregnated electrical condenser. D. A. McLean. 2,615,955, Oct. 28.
Increasing adhesion of coatings to deep-fat fried foods. Z. Block, G. J. Rosner, and A. H. Goodman. 2,615,811, Oct. 28.
Indicating device for closed tanks. T. C. Smith. 2,615,336, Oct. 28.
Indicator: *See*—
  Battery liquid level indicator.
  Liquid level indicator.
  Television tuning indicator.
  Temperature compensation magnetometer indicator.
  Weight and balance indicator.
Industrial bath furnace. B. Allert. 2,615,702, Oct. 28.
Infrared quenchable zinc sulfide phosphors. J. A. Markoski. 2,615,849, Oct. 28.
Instant liquid heater. H. C. A. Meyer. 2,616,023, Oct. 28.
Instantaneous heating of a fluid circulating in a tube. H. Arnaud. 2,616,022, Oct. 28.
Internal pipe aligning clamp. O. P. Adams and R. G. Mayer. 2,615,413–14, Oct. 28.
Invertible rolling barrow. S. McCleneghan, Jr. 2,615,291, Oct. 28.
Iron: *See*—
  Steaming and pressing iron.
Iron-free titanium arsenate and making same. W. O. Davis, R. Roseman, B. W. Allan, and R. W. Neptune. 2,615,789, Oct. 28.
Isopropyl N-phenyl carbamate, Production of. E. M. Allen. 2,615,916, Oct. 28.
Jaw pipe tong, Power-operated slidable. A. L. Stone. 2,615,682, Oct. 28.
Joint: *See*—
  Constant velocity universal joint.
Joint construction. M. H. Alldredge and M. P. Graham. 2,615,737, Oct. 28.
Keyboard key. J. E. Grobl. 2,615,547, Oct. 28.
Keyboard key. G. W. Hopkins and D. L. Rolph. 2,615,548, Oct. 28.
Keyboard key. C. K. Marlow. 2,615,549, Oct. 28.
Key head for stringed musical instruments. F. A. Hawy. 2,615,360, Oct. 28.
Key ring. W. H. Meeker. 2,615,324, Oct. 28.
Kingpin lubrication. W. H. Venable. 2,615,765, Oct. 28.
Knitting machine and method. N. Levin. 2,615,319, Oct. 28.
Knockdown table. P. C. Curtis. 2,615,770–1, Oct. 28.
Ladder clamp. M. Smith and L. A. Stewart. 2,615,667, Oct. 28.
Lamp: *See*—
  Arc lamp.
Lap seam for coated cord fabric and making same. M. M. Cunningham. 2,615,487, Oct. 28.
Lather dispenser. A. L. Bobrick. 2,615,757, Oct. 28.
Laundering machine. J. F. Belaieff. 2,615,320, Oct. 28.
Lawn or beach collapsible back comfort device. J. Neiborn. 2,615,501, Oct. 28.
Lawn trimmer. A. L. Littig. 2,615,246, Oct. 28.
Lead, Manufacture of. L. F. Taylor and P. W. Wright. 2,615,805, Oct. 28.
Leakless low friction bearing. C. E. Wolford. 2,615,763, Oct. 28.
Leg structure for articles of furniture, Folding. C. Schneider. 2,615,502, Oct. 28.
Lens for goggles, Nonfracturable. E. A. Ring. 2,615,163, Oct. 28.
Life preserver. J. J. Podell. 2,615,182, Oct. 28.
Lift plug valve. F. Hinrichs. 2,615,673, Oct. 28.
Lifter: *See*—
  Scale lifter.
Light intensifying attachment for electric bulbs. F. G. Van Dyke. 2,616,030, Oct. 28.
Lighting fixture for elongated tubular lamps. D. Wilman and R. A. Clarke. 2,616,027, Oct. 28.
Lignin, cellulose, and pentosans, Production of. O. R. Sweeney, M. H. Brown, and L. K. Arnold. 2,615,883, Oct. 28.
Line holding device for bricklayers. M. R. Weathers. 2,615,253, Oct. 28.
Linkage connector. C. Johnson. 2,615,738, Oct. 28.
Liquid cleaned precipitator. P. Hodson and H. Klemperer. 2,615,530, Oct. 28.
Liquid level indicator. E. R. Kilsby. 2,615,338, Oct. 28.
Liquid sampler. H. A. Quist. 2,615,340, Oct. 28.
Lock: *See*—
  Telephone lock.
Lock for outboard motors. P. D. Budisch. 2,615,323, Oct. 28.
Locking teeter-bar switch. A. C. Gaynor. 2,616,012, Oct. 28.
Loud-speaker, Moving coil. P. G. A. H. Voigt. 2,615,995, Oct. 28.
Lubricant seal for bearings. R. E. Parry. 2,615,734, Oct. 28.
Lubricating apparatus. C. T. Berry. 2,615,442, Oct. 28.
Lubricating oil additives. S. B. Lippincott and L. A. Mikeska. 2,615,845, Oct. 28.
Lunch kit and handbag, Combination. C. W. Sundberg and M. Ferar. 2,615,563, Oct. 28.
Machine for automatically timing the immersion of an article into a series of liquids. G. F. Davis and E. J. Ayars. 2,615,421, Oct. 28.
Machine for charging detonator carrying plates. R. W. Martyn. 2,615,363, Oct. 28.
Machine for finishing hats. W. C. Griffing and A. E. Hodshon. 2,615,599, Oct. 28.
Machine for forming springs having closed ends. H. Hopkes, Jr. 2,615,478, Oct. 28.
Machine for lasting, sewing, and trimming shoes. W. G. Birch. 2,615,186, Oct. 28.
Machine for lasting, sewing, and trimming shoes. R. E. Sutton and W. E. Trask. 2,615,185, Oct. 28.
Machine for transfer printing on circular objects. V. J. Tenety. 2,615,388, Oct. 28.
Machine for welding battery plates. C. R. Glasener, A. R. Willard, and C. R. Weller. 2,616,015, Oct. 28.
Machine for winding armatures. E. W. Collins. 2,615,639, Oct. 28.
Magnesium arsenate phosphor activated by manganese, Producing. R. S. Wells. 2,615,848, Oct. 28.
Magnet pole structure. P. G. A. H. Voigt. 2,615,996, Oct. 28.
Magnetic air valve. E. H. Bickley. 2,615,470, Oct. 28.
Magnetic recording and reproduction. A. C. and D. L. Blaney. 2,615,990, Oct. 28.
Magnetic tape sound recording and reproducing apparatus. P. B. Scott. 2,615,641, Oct. 28.
Magnetic testing system. W. J. Means. 2,615,961, Oct. 28.
Magnetically controlled rectifier-tube. J. L. Boyer. 2,616,064, Oct. 28.
Magnetron. W. E. Willshaw. 2,616 063, Oct. 28.
Mailbox name plate support attachment. H. G. Brower. 2,615,267, Oct. 28.
Making an integrally reinforced airplane construction. H. F. Dumbleton. 2,615,234, Oct. 28.
Manganese activated zinc lithium silicate phosphor. A. H. McKeag. 2,615,850, Oct. 28.
Manual drive for hydraulic servomotors. S. A. Jacques. 2,615,429, Oct. 28.

Manufacturing porous carbon electrodes. A. Marko and K. Kordesch. 2,615,932, Oct. 28.
Map capable of being folded together and spread flat again. G. E. A. Falk. 2,615,732, Oct. 28.
Material-removing device for conveyers. H. W. Hapman. 2,615,559, Oct. 28.
Material treating apparatus. L. J. Fuller. 2,615,199, Oct. 28.
Mattress and bedpan construction, Hospital. J. M. Corakas. 2,615,175, Oct. 28.
Mattress and making same. W. H. Ramage. 2,615,179, Oct. 28.
Measuring beam current, Method and apparatus for. M. G. Holloway. 2,616,053, Oct. 28.
Measuring tape reel device. W. I. Carlson. 2,615,648, Oct. 28.
Mechanically actuated marionette control mechanism. F. E. Ueltschi. 2,615,282, Oct. 28.
Mechanism for operating a momentary switch for an electric circuit. J. O. Roeser. 2,616,009, Oct. 28.
Memorandum device. H. Lathrop. 2,615,730, Oct. 28.
Metal pallet. W. W. Cushman. 2,615,661, Oct. 28.
Metallic fluorides, Production of. J. F. Gall and H. C. Miller. 2,615,232, Oct. 28.
Meter: *See*—
Thermoluminescence radiation exposure meter.
Metering valve. W. S. Landon. 2,615,671, Oct. 28.
Method and composition for imparting water resistance to textile material. F. W. Minor, A. M. Sookne, M. Harris and G. L. Pyle. 2,615,824, Oct. 28.
Method employing amines for cleaning type matrixes. W. Heinecke. 2,615,825, Oct. 28.
Middlings purifier. C. H. Morrison. 2,615,570, Oct. 28.
Milling machine and method. T. S. See. 2,615,371, Oct. 28.
Milling machine spindle axial shift control. E. E. Coffin. 2,615,372, Oct. 28.
Mineral oil compositions containing esters of thiophene-modified copolymers of maleic anhydride with aliphatic vinyl compounds. J. J. Glammaria. 2,615,844, Oct. 28.
Mixer: *See*—
Household food mixer. Rubber mixer.
Mobile bale handling equipment. E. A. Miller and E. I. May. 2,615,586, Oct. 28.
Modification of keratin. J. W. Haefele. 2,615,782, Oct. 28.
Modification of keratin. J. W. Haefele and N. B. Tucker. 2,615,783, Oct. 28.
Mold and making molds. A. R. Blackburn and R. E. Steele. 2,615,229, Oct. 28.
Mold for rubber products and article formed therein. J. A. Talalay. 2,615,202, Oct. 28.
Molded article. I. H. Steinhardt. 2,615,269, Oct. 28.
Molding powders from shellac and resinols like bhilawan shell liquid or cashew shell liquid, Manufacture of. S. Siddiqui, K. K. Sarin, and J. P. Varma. 2,615,855, Oct. 28.
Motor: *See*—
Fan-cooled motor.
Motor and valve assembly, Hydraulic. C. E. Deardorff and A. A. Meddock. 2,615,428, Oct. 28.
Motor drive for cameras. J. L. Westhaver. 2,615,347, Oct. 28.
Motor-driven blowoff valve. W. C. Schofield. 2,615,469, Oct. 28.
Motorized pulley. D. A. Schrock. 2,615,941, Oct. 28.
Mounting. N. E. Haslop. 2,615,213, Oct. 28.
Mounting of impression plates on platens. J. I. Nasmith and F. K. Daniels. 2,615,394, Oct. 28.
Movable book support. W. B. Haley, Jr. 2,615,279, Oct. 28.
Mowing attachment for power machinery. L. J. Winchell. 2,615,292, Oct. 28.
Mullion. R. H. Bliss, Jr. 2,615,539, Oct. 28.
Multiple chamber package. M. R. Fields. 2,615,448, Oct. 28.
Multiple recording on film. A. N. Butz, Jr. 2,615,778, Oct. 28.
Multiplying and dividing machine. S. Brand and F. V. Adams. 2,615,624, Oct. 28.
Munition. L. F. Fieser and E. B. Hershberg. 2,615,396, Oct. 28.
N-heterylalkyl-isobutyl-(2-thienyl) acetonitriles and preparation thereof. A. W. Ruddy. 2,615,894, Oct. 28.
Navigation lane identification. D. N. Timble. 2,616,079, Oct. 28.
Necktie rack. S. Sampson. 2,615,579, Oct. 28.
Net, Tennis. J. B. Moore. 2,615,715, Oct. 28.
Nonmetallic rolls, Production of. C. T. Dickey. 2,615,207, Oct. 28.
Nonrepeat control circuit. E. G. Anger and R. C. Mierendorf. 2,616,041, Oct. 28.
Nozzle for metallurgical equipment. E. E. Slick. 2,615,216, Oct. 28.
Obtaining registry between separately photographed action scenes. A. W. Tondreau. 2,615,364, Oct. 28.
Oil compositions containing stabilized copolymer ester-type pour point depressants. J. J. Glammaria. 2,615,843, Oct. 28.
Oil filter. F. E. Storey. 2,615,573, Oct. 28.
Oil seal. R. J. Vedovell. 2,615,739, Oct. 28.
Olefinic compounds, Preparation of. C. A. Bordner. 2,615,925, Oct. 28.
Opener, Can. J. R. Lawrence. 2,615,241, Oct. 28.
Operating internal-combustion engines. N. O. Broderson. 2,615,437, Oct. 28.
Organic compounds containing fluorine, Preparing. A. F. Benning and E. G. Young. 2,615,926, Oct. 28.
Oscillating manifold hydraulic log barker. F. W. Horstkotte. 2,615,481, Oct. 28.
Oscillator, Two-frequency. J. D. Moynihan. 2,615,985, Oct. 28.
Outdoor metal-clad switchgear. G. L. Claybourn and P. Kocasis, Jr. 2,615,775, Oct. 28.
Ozone generation. C. E. Thorp and G. Panula. 2,615,841, Oct. 28.
Packaging apparatus with collapsible seal. C. E. Cloud. 2,615,201, Oct. 28.
Packaging method and means. R. J. Hickin. 2,615,289, Oct. 28.
Packet for spools. J. D. Post. 2,615,564, Oct. 28.
Packing for a distillation column. O. G. Dixon. 2,615,835, Oct. 28.
Panel of wood or like material for building construction. C. F. Gardner. 2,615,211, Oct. 28.
Pants hanger. M. E. Leonard. 2,615,604, Oct. 28.
Paper fastener. J. D. Cayabyab. 2,615,222, Oct. 28.
Paper feeding device. A. W. Mills, F. J. Furman and E. J. Rabenda. 2,615,551, Oct. 28.
Paper stock analyzer. G. S. Witham. 2,615,329, Oct. 28.
Pebble heating chamber. L. J. Weber. 2,615,703, Oct. 28.
Pencil sharpener. G. N. Fryer. 2,615,426, Oct. 28.
Pencil sharpener, Pencil actuated. W. R. Lehmann. 2,615,427, Oct. 28.
Penicillin, Production of. R. J. Hickey. 2,615,830, Oct. 28.
Phase modulation system. M. V. Kalfaian. 2,615,986, Oct. 28.
Photographic microrecording apparatus. E. L. Johnson. 2,615,365, Oct. 28.
Pickup conveyer for harvesting machines. B. Lemanski. 2,615,296, Oct. 28.
Picnic box. J. H. Whitesel. 2,615,541, Oct. 28.
Pilot valve for hydraulic main valves, Balanced. A. Garde. 2,615,466, Oct. 28.
Pipe fitting. A. N. Watson. 2,615,733, Oct. 28.
Pipe holder. W. A. Sigrist. 2,615,581, Oct. 28.
Pipe line metering device with bearing protection mechanism. E. T. Young. 2,615,335, Oct. 28.
Pivoted actuator for both fluid inlet and pressure relief valves. W. B. Watkins and K. W. Erge. 2,615,598, Oct. 28.
Planetary type engine. W. S. Pawl. 2,615,436, Oct. 28.
Plug cutter having an ejector. C. F. Schaumleffel. 2,615,245, Oct. 28.
Plug handling head for well casings. C. J. Carr. 2,615,519, Oct. 28.
Polyethylene-polyisobutylene composition. W. J. Clarke. 2,615,857, Oct. 28.
Polyethylene terephthalate monofils drawn and heat set for use as bristles. W. R. McClellan. 2,615,784, Oct. 28.
Polymers. P. J. Flory. 2,615,863, Oct. 28.
Polymers of acrylyltriazine-aliphatic amine reaction products. E. Zerner, M. Gradsten, and F. W. West. 2,615,882, Oct. 28.
Polymethylpentadiene synthetic rubber. W. J. Sparks, R. M. Thomas and D. C. Field. 2,615,881, Oct. 28.
Polyvinyl chloride organosol compositions containing a non-volatile extract of petroleum. D. E. Winkler. 2,615,858, Oct. 28.
Polyvinyl chloride plasticized with a chloroalkyichlorobenzene compound. A. Gision. 2,615,859, Oct. 28.
Portable crop heater. W. R. Fowler, Jr. 2,615,284, Oct. 28.
Portable enclosure. J. B. Radart. 2,615,209, Oct. 28.
Portable protective screen and carrier therefor. M. Adams. 2,615,459, Oct. 28.
Positive electrodes for battery cells, Making. J. D. Moulton and R. F. Enters. 2,615,930, Oct. 28.
Pouncing machine with heated grease pad. F. J. Berger. 2,615,600, Oct. 28.
Power transmission. E. Thomson. 2,615,344, Oct. 28.
Precast sectional concrete stairs. D. S. Seeber. 2,615,325, Oct. 28.
Preserving fruits and vegetables. R. J. Geary. 2,615,814, Oct. 28.
Press: *See*—
Hydraulic press.
Press for drawing sheet metal. C. J. Rhodes. 2,615,412, Oct. 28.
Pressure sealing construction. R. L. Skinner. 2,615,761, Oct. 28.
Printing ink containing a terpene modified phenol formaldehyde resin. J. Pantin and G. R. MacQuaker. 2,615,854, Oct. 28.
Printing telegraph apparatus. R. D. Salmon. 2,615,980, Oct. 28.
Process and catalyst for producing ethylene oxide. G. W. Sears, Jr. 2,615,900, Oct. 28.
Processing sulfur vulcanizable elastomer compounds. A. N. Gray. 2,615,204, Oct. 28.
Processing vulcanizable elastomer compounds. A. N. Gray. 2,615,205, Oct. 28.
Producing ethylene oxide substantially free of acetaldehyde. P. P. McClellan. 2,615,901, Oct. 28.
Pteridine derivatives, Preparing. A. A. Goldman and C. W. Waller. 2,615,890, Oct. 28.

Pteridine perbromides and preparing the same. A. A. Goldman and C. W. Waller. 2,615,891, Oct. 28.
Pulse generator. W. P. Boothroyd. 2,616,047, Oct. 28.
Pulse position dial receiver employing pulse superposition for identifying digits. W. A. Malthaner, N. D. Newby, and H. E. Vaughan. 2,615,971, Oct. 28.
Pulse width separation filter. K. Schlesinger. 2,615,978, Oct. 28.
Pump: *See*—
Fluid pump. Valved piston well pump.
Rotary pump. Variable stroke pump.
Pumping apparatus. W. J. Conery. 2,615,397, Oct. 28.
Punch plier for eyeglass frames. J. J. Greco. 2,615,356, Oct. 28.
Purification and separation of gaseous mixtures. H. E. Randlett. 2,615,787, Oct. 28.
Purification of borohydrides of the alkali metals. T. R. P. Gibb, Jr. 2,615,788, Oct. 28.
Purifying glycerin. A. C. Reents. 2,615,924, Oct. 28.
Purifying synthetic oil-soluble carboxylic acids. V. F. Michael. 2,615,912, Oct. 28.
Pyridyl amines. A. M. Clifford. 2,615,892, Oct. 28.
Rack: *See*—
Necktie rack. Tool rack.
Radio detection and ranging system. G. W. Fyler. 2,616,078, Oct. 28.
Radio echo system for mapping contours. W. T. Holser. 2,616,077, Oct. 28.
Radio receiving apparatus. R. Adler. 2,616,034, Oct. 28.
Radio receiver employing a single tube amplifier-converter. R. Adler and J. G. Spracklen. 2,616,035, Oct. 28.
Random color patterns, Producing. J. Adler. 2,615,270, Oct. 28.
Range light reflector shield. W. R. Crawford. 2,616,026, Oct. 28.
Reacting azelaic dihydrazide with oxalic acid. S. B. McFarlane, Jr., and A. L. Miller. 2,615,862, Oct. 28.
Reacting methyl triacetoxy silane with polysiloxane resin. P. P. Peyrot and L. J. Dumoulin. 2,615,861, Oct. 28.
Reaction products of nitriles. E. Zerner and M. W. Pollock. 2,615,887–9, Oct. 28.
Rearwardly discharging tank type suction cleaner. O. L. Allen. 2,615,531, Oct. 28.
Rebound preventing means for differential actuators. W. A. Anderson. 2,615,622, Oct. 28.
Reclining article of furniture. A. Lorenz and J. Luckhardt. 2,615,496, Oct. 28.
Reclining article of furniture. A. Lorenz. 2,615,498, Oct. 28.
Reclining article of furniture. J. Luckhardt. 2,615,497, Oct. 28.
Record card verifying machine. E. W. Gardinor, R. E. Cheney, and L. T. Bleuer. 2,615,333, Oct. 28.
Record changer spindle. W. Miller and J. L. D. Morrison. 2,615,720, Oct. 28.
Record controlled machine. C. D. Lake and B. M. Durfee. 2,615,569, Oct. 28.
Record controlled machine combination. J. E. Dayger, O. B. Shafer, E. R. Wooding, J. M. Sarley, and J. V. Williams, Jr. 2,615,629, Oct. 28.
Record feeding and analyzing apparatus. H. P. Luhn. 2,615,626, Oct. 28.
Recorder, Magnetic. T. D. Thad. 2,615,989, Oct. 28.
Recorder with self-renewing electrode, Electrolytic. A. F. Deuth. 2,615,777, Oct. 28.
Recovering valuable components from oil bearing seeds, and products therefrom. W. G. H. Forstmann, G. Hillmann, and E. M. H. Radde. 2,615,905, Oct. 28.
Recovery of powdered catalyst. J. W. Jewell. 2,615,785, Oct. 28.
Recovery of precious metals from photographic baths. H. O. Willier. 2,615,839, Oct. 28.
Reduction of 11-ketosteroids. J. H. Hunter and R. B. Moffett. 2,615,903, Oct. 28.
Reel: *See*—
Belt type spinning reel. Hose reel.
Fishing line reel.
Reel and adapter therefor. A. Barsam, Jr. 2,615,643, Oct. 28.
Reel for coiling sheet metal strips. R. Disler. 2,615,646, Oct. 28.
Reflecting measuring device with dual sensitivity. G. E. R. Murray and B. J. Wilson. 2,615,367, Oct. 28.
Refrigerating apparatus for freezing food. L. A. De More. 2,615,309, Oct. 28.
Refrigerator partition structure. E. Swedman. 2,615,592, Oct. 28.
Regenerative heat exchanger. A. T. Bowden and P. Kolb. 2,615,685, Oct. 28.
Regulator: *See*—
Gas pressure regulator. Generator regulator.
Reinforced propeller blade. C. A. Liedholm. 2,615,520, Oct. 28.
Relaxation oscillator circuits. M. D. Rubin. 2,616,048, Oct. 28.
Remote-control device for outboard motors. J. W. Aspenleiter. 2,615,418. Oct. 28.
Removal of carbon dioxide from hydrocarbon synthesis tail gas. H. Z. Martin. 2,615,909, Oct. 28.
Removable protective coating. E. J. Schwoegler. 2,615,820, Oct. 28.
Resettable circuit breaker. B. Millen. 2,615,963, Oct. 28.
Retarding the staling of bakery products. I. Stone. 2,615,810, Oct. 28.
Riboflavin, Production of. D. H. Larsen. 2,615,829, Oct. 28.
Rigid type felted mineral wood product, Making. F. L. Marsh, C. J. Koehler, and W. L. Chrisler. 2,615,806, Oct. 28.
Ring: *See*—
Key ring. Self-adjusting finger ring.
Sealing ring.
Ring spinning, doubling, and twisting machine. J. J. Haythornthwaite. 2,615,297, Oct. 28.
Rinse cylinder for attachment to rotary washing machine baskets. C. T. Maloy. 2,615,321, Oct. 28.
Roll-away screen. T. C. Radford. 2,615,513, Oct. 28.
Rotary blower support. E. J. Lattner. 2,615,617, Oct. 28.
Rotary disk cutter. G. Parovel. 2,615,482, Oct. 28.
Rotary electric resistance welder. W. E. Shenk. 2,616,016, Oct. 28.
Rotary focused beam electron tube. P. W. Charton. 2,616,062, Oct. 28.
Rotary pump. M. G. Edwards. 2,615,399, Oct. 28.
Rotary turbine type fluid coupling. H. O. Putt. 2,615,303, Oct. 28.
Rotatable supporting means for lamps. B. J. Osowski. 2,616,029, Oct. 28.
Rotatable supporting member for conveying devices. B. E. J. Klijberg. 2,615,193, Oct. 28.
Rubberlike materials and an unsaturated hydrocarbon oil. H. S. Bloch. 2,615,856, Oct. 28.
Rubber mixer. C. F. Schnuck and O. W. Hooker. 2,615,689, Oct. 28.
Ruler, Arc forming flexible. W. Q. and J. Q. Sullivan. 2,615,257, Oct. 28.
Sachet. F. Lindenberg. 2,615,754, Oct. 28.
Safety device for hydraulic brakes. F. R. Johnson. 2,615,760, Oct. 28.
Safety ladder bracket. K. Baxter. 2,615,665, Oct. 28.
Safety stopping device for movable machine-tool members. P. Pégard. 2,615,373, Oct. 28.
Sash corner construction. C. A. Pressnall. 2,615,540, Oct. 28.
Sawtooth wave voltage generator. K. Schlesinger. 2,616,044, Oct. 28.
Scale, Automatic platform. E. Outrebon. 2,615,705, Oct. 28.
Scale lifter. C. E. A. O'Loughlin. 2,615,195, Oct. 28.
Scooter, Convertible. A. X. Johnson. 2,615,722, Oct. 28.
Scotophor screens, Making. G. Levy. 2,615,821, Oct. 28.
Screen: *See*—
Roll-away screen.
Seal for axially movable rotary plug valves. F. Hinrichs. 2,615,672, Oct. 28.
Sealing ring. T. D. Nathan. 2,615,740–1, Oct. 28.
Seat: *See*—
Slide seat.
Seat or mattress support. C. A. Karg. 2,615,178, Oct. 28.
Seismic exploration. T. C. Poulter. 2,615,523, Oct. 28.
Seismic exploration employing elevated charges. T. C. Poulter. 2,615,522, Oct. 28.
Seismic exploration employing elevated charges. T. C. Poulter. 2,615,524, Oct. 28.
Self-adjusting finger ring. B. Axel. 2,615,314, Oct. 28.
Self-cleaning valve. E. Woodward. 2,615,465, Oct. 28.
Self-heating container. L. Sukacev. 2,615,443, Oct. 28.
Self-lubricated turbine drive and gear reduction unit. R. Cliborn. 2,615,533, Oct. 28.
Self-quench superregenerative receiver. D. Richman. 2,616,039, Oct. 28.
Self-setting rodent trap. G. B. Wilken. 2,615,278, Oct. 28.
Semiautomatic rotary cable tool dresser. M. W. Ives. 2,615,353, Oct. 28.
Separation of hydrogen halides from olefinically unsaturated compounds. J. H. Raley. 2,615,791, Oct. 28.
Separator: *See*—
Spiral separator.
Sequential tripping mechanism control for multiunit offset presses. A. J. Albrecht. 2,615,393, Oct. 28.
Sequentially operated valve mechanism. H. G. Hughey. 2,615,464, Oct. 28.
Servo mechanism. J. Foster. 2,615,431, Oct. 28.
Sewer catch basin unit. F. Lane. 2,615,526, Oct. 28
Shaper-saw power feed device. H. W. King. 2,615,483, Oct. 28.
Sheet cutter. L. Hornbostel. 2,615,518, Oct. 28.
Sheet material element used in feeding device. E. C. Sauerman. 2,615,392, Oct. 28.
Sheet or web material, Making. W. C. Huebner. 2,615,822, Oct. 28.
Sheet receiver for duplicating machines. F. R. Ford. 2,615,714, Oct. 28.
Sheet separating machine. H. T. Backhouse. 2,615,713, Oct. 28.
Shelf support. C. B. Jones. 2,615,666, Oct. 28.
Shirt form with coller strip lock. L. M. Kahn. 2,615,601, Oct. 28.
Shock controlled rotatable cartridge magazine for firearms. K. E. Jansson and W. E. Ericason. 2,615,369, Oct. 28.
Shoe guard, Safety. M. La Grotto. 2,615,261, Oct. 28.
Shoe, Roller skating. M. Goldenberg. 2,615,723, Oct. 28.
Shoulder and ditch grading machine. F. L. Satterthwaite. 2,615,264, Oct. 28.
Shoulder pad structure. D. A. Donegan. 2,615,172, Oct. 28.

Shuffling decks of playing cards. W. A. Fonken. 2,615,719, Oct. 28.
Shuttle box and shuttle for filling replenishing looms. J. M. Jenkins. 2,615,476, Oct. 28.
Shuttle ejection mechanism for looms. J. Ibañez Batllo. 2,615,474, Oct. 28.
Sign construction, Double-faced. R. G. Hamilton. 2,615,268, Oct. 28.
Signal translating apparatus. R. Adler. 2,616,036, Oct. 28.
Signal voltage frequency converter. T. E. Jacobi and W. L. Gensel. 2,616,075, Oct. 28.
Signature feeding and stitching machine. A. H. Schmidtke. 2,615,161, Oct. 28.
Silent closing pilot-operated valve. E. C. Baisel. 2,615,467, Oct. 28.
Silo unloader. G. D. Clapp. 2,615,594, Oct. 28.
Single channel mobile telephone system. R. H. Herrick. 2,616,032, Oct. 28.
Single leaf spring suspension for automobiles. K. E. Lyman. 2,615,710, Oct. 28.
Single-tube frequency-modulated oscillator. B. E. Lenehan. 2,615,984, Oct. 28.
Skirt and blouse connector. E. G. Borowick. 2,615,171, Oct. 28.
Sled, Collapsible. W. J. S. Lee. 2,615,724, Oct. 28.
Slice assembly for papermaking machines. B. A. Malkin. 2,615,374, Oct. 28.
Slide seat. N. E. Hunter. 2,615,493, Oct. 28.
Slider for slide fasteners. P. F. Epple. 2,615,225, Oct. 28.
Sliding door lock. C. D. Lloyd. 2,615,742, Oct. 28.
Slow-setting, oil-in-water bituminous emulsion. D. N. Manzer. 2,615,819, Oct. 28.
Slush pump piston. B. H. Barnes and B. S. Minor. 2,615,769, Oct. 28.
Smoking stand. O. Mankki. 2,615,578, Oct. 28.
Snap fastener assembly tool with penetrable sleeve. A. Dritz. 2,615,590, Oct. 28.
Snowshoe. F. T. Paden. 2,615,260, Oct. 28.
Snowsuit with boots. A. W. Steedman. 2,615,165, Oct. 28.
Sodium chlorophenate, Manufacture of. G. J. Henrich. 2,615,923, Oct. 28.
Soldering device. O. Wertheim and N. N. Moss. 2,615,415, Oct. 28.
Solid-liquid reaction processes. R. Stanton. 2,615,906–7, Oct. 28.
Sorting apparatus. J. A. Campbell. 2,615,567, Oct. 28.
Sorting machine. J. J. Constance. 2,615,568, Oct. 28.
Sound-absorbing board with holes containing debris material. E. Berner. 2,615,525, Oct. 28.
Sound reproducing method and system. C. W. Hansell. 2,615,991, Oct. 28.
Spark plug electrode. W. A. Bychinsky. 2,615,441, Oct. 28.
Sparkling barber pole. C. M. Wallin and T. W. Frazier. 2,615,266, Oct. 28.
Speed correction gear for gyro compasses. L. F. Carter. 2,615,258, Oct. 28.
Spinning apparatus and method. G. N. Flannagan. 2,615,198, Oct. 28.
Spiral separator. E. T. Hodge. 2,615,572, Oct. 28.
Spool having thread fastening means. J. E. Johnson. 2,615,651, Oct. 28.
Sport cap. M. L. Tannenbaum, A. J. Springer, and W. H. Wechter. 2,615,168, Oct. 28.
Spring assembly. E. E. Woller. 2,615,180, Oct. 28.
Spring group assembly. J. E. Flesch. 2,615,709, Oct. 28.
Spring loaded action contact. C. W. Klostermann. 2,615,951, Oct. 28.
Spring retaining ring for machine parts. H. Heimann and L. Brozek. 2,615,735, Oct. 28.
Spring support. W. S. Rouverol. 2,615,708, Oct. 28.
Spring type clutch. M. Maeser. 2,615,543, Oct. 28.
Spring wheel construction. H. Kirwin. 2,615,316, Oct. 28.
Stabilization system in aircraft autopilot. C. M. Young. 2,615,658, Oct. 28.
Stabilizer arrangement for cyclotrons and the like. R. R. Weeks. 2,616,042, Oct. 28.
Stand: *See*—
- Bicycle kick stand.
- Display stand.
- Drum stand.
- Smoking stand.

Standoff insulator stud. R. E. Mungovan and H. W. Orr. 2,615,954, Oct. 28.
Static phase balancer. L. J. Hibbard. 2,616,071, Oct. 28.
Steaming and pressing iron. H. Maykemper. 2,615,265, Oct. 28.
Steering mechanism for three-wheel vehicles. C. Bancroft. 2,615,727, Oct. 28.
Sticks, Production of. H. A. Roberge. 2,615,484, Oct. 28.
Stock gauge trip apparatus. J. H. Friedman. 2,615,355, Oct. 28.
Stop for fluid filled cable systems. R. C. Rifenburg. 2,615,952, Oct. 28.
Strap brush for bathing. W. Novick. 2,615,189, Oct. 28.
Strip applying device. R. H. Holmwood and P. A. Hauck. 2,615,492, Oct. 28.
Strip winding spool. F. R. Schulz. 2,615,642, Oct. 28.
Stripping film and stripping. J. Q. Umberger. 2,615,807, Oct. 28.
Stripping volatiles from fluids, Method and apparatus for. D. K. Dean and F. B. White. 2,615,833, Oct. 28.
Structural form of slide rules. A. F. Eckel. 2,615,630, Oct. 28.
Stylus assembly for facsimile machines. A. G. Cooley. 2,615,780, Oct. 28.
Support: *See*—
- Helicopter engine - rotor support.
- Movable book support.
- Rotary blower support.
- Seat or mattress support.
- Shelf support.
- Spring support.
- Yarn package support.

Support for eating utensils. A. M. Gray. 2,615,318, Oct. 28.
Surface covering material. F. Washburn. 2,615,210, Oct. 28.
Suture package and method. J. O. Bower and J. P. Tarbox. 2,615,565, Oct. 28.
Suture treatment and product. J. O. Bower. 2,615,450, Oct. 28.
Swab holder and dispenser. A. M. Rothbardt. 2,615,562, Oct. 28.
Sway control means for lawn mowers. H. J. Stegeman. 2,615,293, Oct. 28.
Switch: *See*—
- Electric switch.
- Electromagnetic switch.
- Fluid controlled switch.
- Locking teeter-bar switch.
- Variable time sequential operated switch.

Switch construction. A. J. Junker and J. J. Koski. 2,616,002, Oct. 28.
Switching system, Automatic. W. H. Cuttino. 2,615,962, Oct. 28.
Synthesis of organic compounds. T. S. Williams. 2,615,911, Oct. 28.
Synthesis of vitamin A and intermediates therefor. A. C. Starke, Jr. 2,615,922, Oct. 28.
Synthetic hydrocarbons, Production of. H. E. Cler. 2,615,910, Oct. 28.
Synthetic resins stabilized with metal chelate compounds. A. R. Burgess. 2,615,860, Oct. 28.
Syringe, Hypodermic. P. B. Lingenfelter. 2,615,446, Oct. 28.
Table: *See*—
- Knockdown table.

Tabulating mechanism. E. L. Wise. 2,615,552, Oct. 28.
Taking up slack in lead screw devices. J. W. Gasser. 2,615,348, Oct. 28.
Tandem axle for trailers. L. J. Hughes. 2,615,728, Oct. 28.
Tank clamp support holder. W. Highwood. 2,615,238, Oct. 28.
Tape holder and plaster pallet, Combined. O. L. Matthews 2,615,326, Oct. 28.
Tapping attachment. E. H. Johnson and A. C. Lindmark. 2,615,183, Oct. 28.
Target set. R. O. Wesley and C. W. Sundberg. 2,615,717, Oct. 28.
Telephone dial cleaner. H. V. Martin. 2,615,988, Oct. 28.
Telephone lock. A. Gazda. 2,615,322, Oct. 28.
Teelphone repeater. G. H. Brodie. 2,615,997, Oct. 28.
Television tuning indicator. D. Felt. 2,615,420, Oct. 28.
Temperature compensation magnetometer indicator. F. W. Lee. 2,615,957, Oct. 28.
Temperature control system. H. R. Karp and A. W. Blanchard. 2,616,018, Oct. 28.
Temperature responsive detector system. W. Heath, Jr. 2,615,973, Oct. 28.
Ten-key keyboard mechanism for accounting machines. F. J. Furman, H. L. Read, and H. J. Kistner. 2,615,633, Oct. 28.
10-pyrrolidinoacyl-phenothiazines and salts thereof. J. R. Dahlbom and T. K. I. B. Ekstrand. 2,615,886, Oct. 28.
Textile inspection apparatus. J. Gift. 2,615,334, Oct. 28.
Textile product. A. H. Little. 2,615,231, Oct. 28.
Thermoluminescence radiation exposure meter. F. Daniels. 2,616,051, Oct. 28.
Thermostatic control device. E. J. Bush. 2,616,067, Oct. 28.
Thiocarbamyl thiazyl monosulfides, Preparation of. A. F. Hardman. 2,615,893, Oct. 28.
Thioether-HF-copper complex compounds. D. A. McCaulay and A. P. Lien. 2,615,908, Oct. 28.
3,5-diiodo-4-pyridylmercapto-carboxylic acids and their preparation. S. Archer. 2,615,895, Oct. 28.
3-pyridyl-carbinol, Preparation of. G. O. Chase. 2,615,896, Oct. 28.
Throttle valve mechanism. R. O. Allen. 2,615,674, Oct. 28.
Time-delay relay testing device. C. B. Gould. 2,615,967, Oct. 28.
Time division multiplex radiophone system. J. H. Homrighous. 2,616,080, Oct. 28.
Tire changer with circumferentially distributed thrust means, Fluid pressure actuated. E. F. Wilson. 2,615,506, Oct. 28.
Toaster, Automatic electric. J. H. Palmer. 2,615,386, Oct. 28.
Tool: *See*—
- Circumferentially traveling type tire removing tool.
- Combined slidable jaw wire cutting and holding tool.
- Fan belt tool.

Tool carriage support and dust guard therefor. C. P. Gesner. 2,615,762, Oct. 28.
Tool for releasing clock springs. B. F. Cameron. 2,615,357, Oct. 28.
Tool handle fastening. D. M. Waters. 2,615,247, Oct. 28.
Tool post, Hydraulically adjustable. D. O. Ferris 2,615,233, Oct. 28.

Tool rack. R. Bartleman. 2,615,577, Oct. 28.
Torquemeter. J. G. Quinn. 2,615,332, Oct. 28.
Toy, Child's rocker. F. T. Hilliker. 2,615,495, Oct. 28.
Toy, Flying. D. W. Main. 2,615,281, Oct. 28.
Toy, Jointed figure. G. H. Seligson. 2,615,283, Oct. 28.
Toy washing machine. G. W. Thelin. 2,615,280, Oct. 28.
Tracing characteristic curve of electronic tubes. H. M. Wagner. 2,616,058, Oct. 28.
Transmission. D. W. Kelbel. 2,615,351, Oct. 28.
Transmission. J. M. Simpson and D. W. Kelbel. 2,615,346, Oct. 28.
Transmission for fishing reels. A. G. Mies and T. S. Pflueger. 2,615,352, Oct. 28.
Transmitter for guided aircraft controls. P. W. Nosker. 2,616,031, Oct. 28.
Trap: *See*—
- Self-setting rodent trap.

Trap and escutcheon. C. E. Johnson. 2,615,527, Oct. 28.
Traveling grate stoker. D. J. Mosshart. 2,615,406, Oct. 28.
Tray, Freezing. F. W. Sampson. 2,615,310, Oct. 28.
Treatment of gases or vapors with liquids. O. G. Dixon. 2,615,832, Oct. 28.
Trombone balancer. T. H. Ebbert. 2,615,361, Oct. 28.
Truck, Pallet. G. F. Quayle. 2,615,677, Oct. 28.
Truck with damping means, Railway. C. L. Orr and J. C. Settles. 2,615,403, Oct. 28.
True dip determining apparatus for well logging. A. B. Hildebrandt. 2,615,248, Oct. 28.
Truss, Hemorrhoid. E. H. Holmes. 2,615,445, Oct. 28.
Tube: *See*—
- Black screen television cathode-ray tube.
- Cathode-ray coding tube.
- Electrostatically - focused rotary radial beam tube.
- Rotary focused beam electron tube.

Tuner for television receivers. E. J. H. Bussard. 2,615,983, Oct. 28.
Turbine and compressor apparatus. W. S. Bowen. 2,615,616, Oct. 28.
Turn-in stud mounting molding snap fastener. J. Kral. 2,615,226, Oct. 28.
Two-tone air whistle. J. L. Bonanno. 2,615,968, Oct. 28.
Typeholder socket. P. J. Hahn, Sr. 2,615,395, Oct. 28.
Universal printing process cylinder and making the same. W. C. Huebner. 2,615,389, Oct. 28.
Unloading device. F. J. Rynders. 2,615,544, Oct. 28.
Unsymmetrical deflection yoke. R. R. Thalner. 2,616,056, Oct. 28.
Utensil, Dispensing. A. G. Goodnight. 2,615,405, Oct. 28.
Vacuum booster for internal-combustion engines. J. C. Holmes. 2,615,299, Oct. 28.
Vacuum valve. H. Nelson. 2,615,670, Oct. 28.
Valve: *See*—
- Automatic fire and earthquake responsive cutoff valve.
- Excess flow check valve.
- Lift plug valve.
- Magnetic air valve.
- Metering valve.
- Motor-driven blowoff valve.
- Self-cleaning valve.
- Silent closing pilot-operated valve.
- Vacuum valve.

Valve. F. Ernest. 2,615,668, Oct. 28.
Valve diaphragm. R. McFarland, Jr. 2,615,471, Oct. 28.
Valve for automobile body heaters. E. Ludlow. 2,615,669, Oct. 28.
Valve with bellows type seal, Diaphragm controlled. B. G. Woolley. 2,615,468, Oct. 28.
Valved piston well pump. H. B. Fuqua and R. H. Covert. 2,615,400, Oct. 28.
Vaporizer for insecticides and the like. J. Laibow. 2,616,024, Oct. 28.
Vaporizing apparatus. H. R. Stagner. 2,615,215, Oct. 28.
Variable capacitance device. W. S. Erwin. 2,615,960, Oct. 28.
Variable enabler for acoustic torpedoes. T. A. Daly and H. A. Gill. 2,615,416, Oct. 28.
Variable position control for hydraulic servomotors. E. H. Fletcher, P. L. Hanson, and T. Nakae. 2,615,430, Oct. 28.
Variable stroke pump. G. P. E. Howard. 2,615,398, Oct. 28.

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Variable time sequential operated switch. M. G. Beautense. 2,616,000, Oct. 28.
Variable transformer control. P. Glass. 2,615,936, Oct. 28.
Vehicle ventilating window antidrip device. Y. M. Hoag. 2,615,752, Oct. 28.
Vending machine for cylindrical articles. M. L. Holt and J. B. Brock. 2,615,773, Oct. 28.
Ventilating and heating device. L. J. Jenn. 2,615,383, Oct. 28.
Ventilation and cooling of household mixers. C. A. Edman. 2,615,942, Oct. 28.
Ventilation system for electric machines. S. Gynt. 2,615,938, Oct. 28.
Vertical bale elevator. G. H. Huber. 2,615,554, Oct. 28.
Vessel for fluid catalyst reaction with means for varying height of the dense phase. N. P. Peet. 2,615,796, Oct. 28.
Vibration insensitive galvanometer device. H.-G. Doll. 2,615,935, Oct. 28.
Vibration responsive safety cutoff valve. W. W. Crow. 2,615,460, Oct. 28.
Volume control apparatus. P. J. Culicetto. 2,615,999, Oct. 28.
Washing composition. V. Dvorkovitz and T. G. Hawley, Jr. 2,615,846, Oct. 28.
Waste can closure operator and support. B. F. Hamilton. 2,615,663, Oct. 28.
Waste disposal apparatus with time delay switch. J. H. Powers. 2,615,636, Oct. 28.
Waste disposal unit for sinks. P. A. Frank. 2,615,176, Oct. 28.
Waste stopper device. H. R. Schlichting. 2,615,177, Oct. 28.
Watertight slide fastener closure. I. Shur. 2,615,224, Oct. 28.
Weather strip. G. C. Hayman. 2,615,214, Oct. 28.
Weather strip and refrigerator gasket. H. G. Beck. 2,615,212, Oct. 28.
Wedding and engagement ring ensemble and coupling for same. J. H. Schaeffer. 2,615,313, Oct. 28.
Weed guard for fishhooks, Demountable. B. Hayden. 2,615,277, Oct. 28.
Weedhook for plows. E. E. Sands. 2,615,382, Oct. 28.
Weft change box mechanism for looms for weaving. F. S. Eves. 2,615,475, Oct. 28.
Weight and balance indicator. T. M. Blackmon and F. D. Porter. 2,615,330, Oct. 28.
Weld analyzer. R. O. Ellerby. 2,616,014, Oct. 28.
Well derrick, rig, and pipe racking apparatus. J. W. Menhall. 2,615,585, Oct. 28.
Well drilling rig. J. W. Menhall. 2,615,679, Oct. 28.
Wheel mount and draft gear arrangement for harvester combines, Adjustable. W. R. Dray. 2,615,294, Oct. 28.
Window construction. H. T. Friis. 2,615,512, Oct. 28.
Window screen for automobiles. W. E. Hoffman. 2,615,515, Oct. 28.
Window shade cutter. R. W. Hyde. 2,615,516, Oct. 28.
Windshield wiper, Extensible arm. D. Shaw and W. Turner. 2,615,190, Oct. 28.
Wiper holder for perforator-card machines. C. H. Stuivenberg. 2,615,627, Oct. 28.
Woodsawing machine and shaper attachment therefor. R. D. Bearup. 2,615,479, Oct. 28.
Wrapping articles in stretchable sheet material, Method and apparatus for. C. E. Cloud. 2,615,200, Oct. 28.
Wrench: *See*—
- Cam actuated side jaw wrench.

Wringer for mops, Power. H. B. Brown. 2,615,191, Oct. 28.
X-ray motion-picture photography. F.-H. B. Marshall. 2,616,050, Oct. 28.
Yarn brake. L. te Strake. 2,615,656, Oct. 28.
Yarn package support. J. E. Johnson. 2,615,652, Oct. 28.
Yarn tensioning device. A. T. Guild. 2,615,655, Oct. 28.
Yarn tensioning device. T. F. Suggs. 2,615,654, Oct. 28.
Yarn tensioning means for bobbin winding machines. R. R. Drake. 2,615,640, Oct. 28.

CLASSIFICATION OF PATENTS

ISSUED OCTOBER 28, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,615,232:	28—88	2,615,789:	167—15	2,615,896:	260—297	2,615,938:	310—64	2,615,942:	310—50	2,616,051:	250—71
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Classification of Designs

D 3—10: Des. 168,075
D 4— 5: Des. 168,019
D 7— 7: Des. 168,076
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D15—11: Des. 168,059
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D86— 1: Des. 168,029
D90—16: Des. 168,055
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Des. 168,030

U. S. GOVERNMENT PRINTING OFFICE: 0—1952

Condition of Applications Under Examination at Close of Business October 10, 1952

Total number of patent applications awaiting action, 96,896. Date of oldest new application, January 11, 1952; date of oldest amended application, January 11, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) KEELY, J. E.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Sewerage.	2-1-52	1-24-52	1547
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	2-26-52	2-4-52	1224
3. WINDHAM, R. K. (Acting), Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	3-14-52	3-13-52	1716
4. FALLER, E. A., Hoists; Power Driven Conveyors; Handling Apparatus	1-21-52	1-18-52	1427
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	1-30-52	1-30-52	1089
6. SURLE, H., Carbon Chemistry (part)	3-1-52	3-3-52	2039
7. ANDERSON, E. G. (Acting), Optics; Photography (part)	2-5-52	2-4-52	1403
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	2-18-52	2-15-52	1332
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	1-21-52	1-21-52	1418
10. NEFF, P. R. (Acting), Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	2-1-52	2-7-52	1298
11. BENHAM, E. V., Boots, Shoes, and Leggings: Button, Eyelet, and Rivet Setting; Cutlery; Leather Manufacture; Nailing and Stapling; Cleaning and Liquid Treatment of Solids.	2-1-52	1-29-52	1208
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	1-26-52	1-15-52	1247
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working (part)—e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning; Electric Lamp or Discharge Devices, Manufacture or Repair.	1-16-52	1-16-52	1190
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working (part)—e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus.	1-29-52	1-29-52	1437
15. STEPHENSON, W. J. (Acting), Plastics; Plastic Block and Earthenware Apparatus; Glass	3-5-52	3-7-52	1431
16. LOVEWELL, N. N., Television, Telephony	1-31-52	1-29-52	1334
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	1-16-52	1-15-52	1343
18. KURZ, J. A., Power Plants; Speed Responsive Devices	1-19-52	1-22-52	796
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	1-19-52	1-18-52	1116
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	2-7-52	2-4-52	1348
21. MADER, R. C., Textiles	1-19-52	1-19-52	1315
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors; Fluid Diaphragms and Bellows.	1-28-52	1-30-52	1114
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	2-7-52	1-24-52	849
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	2-27-52	3-7-52	1384
25. McNAB, J. C., (Acting), Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminuters; Distillation.	1-16-52	1-15-52	1415
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	2-6-52	2-4-52	1190
27. JAMES, S., Brushing, Scrubbing and General Cleaning; Brush, Broom and Mop Making	2-9-52	2-7-52	1435
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	1-25-52	1-14-52	1222
29. HABECKER, L. B., Button Making; Woodworking; Tools; Fluid Treatment of Textiles (Apparatus)	2-4-52	1-24-52	1214
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidistats; Heating Systems; Refrigeration; Illuminating Burners.	2-21-52	2-21-52	1453
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	2-1-52	1-21-52	2293
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating; Fluid Pressure Modulators and Self-proportioning Systems.	2-7-52	2-12-52	1295
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	2-4-52	2-1-52	1826
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles, Vehicle Fenders; Hand and Hoist-Line Implements.	1-26-52	1-28-52	1079
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	2-4-52	1-24-52	1322
36. McFADYEN, A. D., Measuring and Testing	2-1-52	1-31-52	1087
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	2-11-52	2-11-52	1241
38. ARNOLD, D., Coating Processes and Apparatus; Preserving Apparatus (part); Abrasive Tool Making Processes and Materials; Coating or Plastic Compositions (part).	2-1-52	1-18-52	1547
39. WEIL, I., Fluid-Pressure Regulators; Valves; Fluid Handling (part)	3-11-52	3-10-52	1090
40. DRUMMOND, E. J., Receptacles (part); Packages	3-22-52	3-18-52	1208
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	2-7-52	1-19-52	882
42. MARANS, H., Electric Signaling (part), except Submarine, Altimeters, Distance or Direction Measuring, and Object Detection; Signals; Telegraph (part); Signals and Indicators.	2-13-52	2-4-52	1022

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 96,896. Date of oldest new application, January 11, 1952; date of oldest amended application, January 11, 1952.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
43. KNIGHT, W. G., (Acting), Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	2-15-52	2-1-52	1478
44. HARVEY, L. P., Beds; Chairs; Seats	1-17-52	1-25-52	1138
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	2-15-52	2-16-52	1201
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles; Liquid Level Responsive Systems.	1-30-52	1-18-52	1119
47. KANOF, W. J., Mining, Quarrying, and Ice Harvesting; Motor Vehicles; Land Vehicles (part)	1-23-52	1-22-52	1569
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	2-5-52	1-25-52	1630
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	1-25-52	1-18-52	1402
50. BENGEL, W. G., Synthetic Resins; Rubber	3-11-52	3-13-52	1539
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	2-9-52	2-13-52	1399
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	2-14-52	2-13-52	2021
53. BRINDISI, M. V., Label Pasting and Paper Hanging, Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	1-30-52	1-29-52	931
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures; Light Sensitive Circuits; Ray Energy Applications.	1-17-52	1-18-52	1707
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	1-23-52	1-22-52	1009
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	1-25-52	1-25-52	1470
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	3-1-52	3-1-52	1579
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators; Baths, Closets, Sinks and Spittoons.	2-7-52	2-5-52	1180
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	2-14-52	2-2-52	1095
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	2-28-52	5-15-52	929
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	1-22-52	1-23-52	1281
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	2-6-52	2-2-52	1163
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	1-23-52	1-17-52	1775
64. GORECKI, G. A., Fuels and Miscellaneous Compositions	1-30-52	1-23-52	1743
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	2-5-52	2-4-52	1438
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	1-14-52	1-11-52	915
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	2-2-52	1-18-52	1694
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	2-29-52	2-25-52	1412
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	1-22-52	1-22-52	1204
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	1-11-52	1-15-52	2971
DESIGNS: A. BREHM, G. L., Industrial Arts	6-30-52	7-1-52	695
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	6-11-52	6-11-52	754

Total number of trade-mark applications awaiting action (including renewals and republications), 14,369. Date of oldest new application, April 24, 1952; date of oldest amended application, April 24, 1952.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action: New	Amended	Applications awaiting action
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 12, 15, 18, 27, 28, 30, 33, 35, 44, 51, 52	4-24-52	4-24-52	3274
II. SUMMERS, G. S., Classes 9, 10, 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34, 36	4-25-52	4-24-52	3644
Renewals (All Classes)	7-15-52	8-18-52	655
Republications (All Classes)	7-14-52	9-19-52	287
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	4-24-52	4-24-52	3571
IV. KEYS, O. M., Classes 2, 11, 16, 29, 46, 50, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	4-24-52	4-24-52	2938

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE SCHWARTZ ET AL.

No. 5851. Decided March 18, 1952

[— F.2d —; 93 USPQ 169]

1. PATENTABILITY—INVENTION—IMPROVED RESULTS NOT SUFFICIENT.

While it may be that the result of the function of a claimed structure brings about a better result, *Held* that it does not follow that invention was required to make the changes responsible for such improvement.

2. SAME—PARTICULAR SUBJECT MATTER—LAMP FIXTURE.

Certain claims to a lamp fixture *Held* properly rejected as non-inventive over the cited prior art.

APPEAL from Patent Office. Serial No. 647,935.

AFFIRMED.

Maurice S. Cayne for appellants.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

The Board of Appeals of the United States Patent Office affirmed the decision of the Primary Examiner finally rejecting all of the claims 3, 4, 8, and 14 of an application, Serial No. 647,935, for a Lamp Fixture, because of lack of invention in view of the prior art. From the decision of the Board this appeal was taken.

The claims are not separately treated in the brief filed on behalf of appellants, therefore, it is not necessary to discuss them separately.

Claim 3 is illustrative of the involved subject matter and reads as follows:

3. A lamp comprising a bowl-shaped lower portion having an inwardly turned upper margin, an inverted bell-shaped upper portion, and a light source contained in said lower portion, said lower portion being formed of light diffusing material and arranged to deflect in a downwardly direction certain rays of light impinging on said upper margin and arranged also to direct upwardly certain other rays of light from said source.

The cited references are: Schneider, 241,730, May 17, 1881; White, 1,396,486, Nov. 8, 1921.

The application shows a lamp fixture so designed as to direct light in both upwardly and downwardly directions. In construction, it consists of a lower bowl member made of translucent material on the top of which is an inverted bell-shaped opaque reflector. The source of light is located in the bowl member.

The Schneider patent relates to a combined globe and chimney for lamps. The structure of the apparatus, as shown in the drawings, discloses a bowl-shaped lower member with an inwardly turned upper margin on top of which is a bell-shaped upper portion. The light source is contained in the bowl which is made of transparent material.

The White reference relates to a lighting fixture comprising at its lowest part a bowl-shaped member of translucent glass, on top of which there is an inverted opaque bell-shaped reflector. The light source is in the area of the reflector.

All of the claims were rejected by the Examiner as unpatentable over the Schneider reference for the stated reason that "they are considered to define thereover only by such functional statements as 'arranged to deflect—.'" He further rejected the claims on the ground that there was no invention in having a light source extend into the lower member of the White fixture, as suggested in the structure of the Schneider patent.

While reference is made in the decision below with respect to functional statements in the claims, counsel for appellant in his brief states that no reliance is placed on conventional functional statements to distinguish the claims from the structures of the Schneider and White patents. Therefore, it is unnecessary to discuss the well-established principle that functional statements alone may not be relied upon to establish patentability of claims.

While it is true that the light fixtures of the prior art do not correspond to the construction set out in the involved claims, in our opinion, the difference is not such as to render the claims patentable over that art.

[1] It is clear that the elements of the claims are old, and we fail to see where invention is involved by putting them together as is here done. While it may be, as alleged by counsel for appellant, the result of the functioning of the structure of the claims results in better illumination, it does not follow that invention was required to make the changes responsible for such improvement. *In re Cady*, 27 CCPA (Patents) 1208, 111 F.2d 899, 45 USPQ 576, 520 O. G. 794, quoting from *Pearce* v. *Mulford*, 102 U. S. 112.

It is clear to us that the bowl-shaped lower portion of the structure of the Schneider patent has an inwardly turned upper margin. It is also clear that the inverted bell-shaped upper portion of the structure of the claims is certainly shown in the drawing of the White patent. While the bowl of

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the Schneider structure is not formed of translucent or light diffusing material, it certainly would not involve invention to substitute translucent glass for the glass of that patent in view of the White disclosure.

While it is true that in the White structure the source of light is located in the top element and not in the lower portion, it certainly would not involve invention to extend such light source into the lower portion of the fixture in view of the Schneider patent.

[2] For the reasons hereinbefore set out, the decision of the Board of Appeals is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,958,725, L. H. Stein, Ball bearing; 2,140,818, 2,230,471, same, Anti-friction bearing, D. C., N. D. Ill. (Chicago), Doc. 50c857, *Aetna Ball & Roller Bearing Co.* v. *Standard Unit Parts Corp.* Judgment affirmed as to 1,958,725, reversed as to 2,140,818 and 2,230,471, and cause remanded with directions that the suit as to them be dismissed Aug. 11, 1952.

2,066,346, W. Greig, Manifold record supply packet; 2,120,161, H. Stevens, Unitary manifolding assembly, filed Aug. 12, 1952, D. C., S. D. N. Y., Doc. 78/61, *Moore Business Forms, Inc.* v. *Emess Printing Corp.*

2,082,730. (See 2,258,573.) 2,083,705. (See 2,212,891.)

2,089,209, 2,303,368, Keuffel & Gotham, Measuring tape; 2,471,329, 2,471,395, A. W. Keuffel, Method of making measuring tapes, filed Aug. 14, 1952, D. C., S. D. N. Y., Doc. 78/77, *Keuffel & Esser Co.* v. *Sears, Roebuck & Co.*

2,112,286. (See 2,163,171.) 2,120,161. (See 2,066,346.)

2,140,818. (See 1,958,725.)

2,163,171, W. W. Haase, Sectional burial apparatus; 2,163,172, same, Power operable burial device; 2,163,173, same, Universal burial device; 2,163,174, same, Power attachment for burial devices; 2,285,923, same, Winch drag mechanism; 2,112,286, same, Burial apparatus, D. C., S. D. Ill. (Peoria), P–1167, *Wilbert W. Haase Co.* v. *Eagle Vault Co.* Complaint and amended complaint dismissed without prejudice as to 2,163,171, 2,163,172, 2,163,173, 2,163,174, and 2,285,923, and that defendant be enjoined as to claims 1 to 12 inclusive of 2,112,286, except in 10 Illinois counties, and not to exceed 12 sets of burial apparatus (notice Aug. 15, 1952).

2,163,172. (See 2,163,171.) 2,163,173. (See 2,163,171.)

2,163,174. (See 2,163,171.)

2,212,891, F. H. Armstrong, Blasting device; 2,083,705, A. Harris, same, D. C., N. D. Ill. (Chicago), Doc. 50c283, *Cardox Corp.* v. *Armstrong Coalbreak Co.* Claims 2, 3, and 6 of 2,212,891 and claim 1 of 2,083,705 infringed, injunction May 22, 1951. Judgment reversed and remanded with instructions to dismiss complaint June 17, 1952.

2,230,471. (See 1,958,725.)

2,258,573, A. A. Johnson, Manifolding pack; 2,082,730, C. W. Brenn, Manifolding device, C. C. A., 1st Cir., Doc. 4632, *Autographic Register Co.* v. *Philip Hano Co., Inc.* Judgment of District Court affirmed (notice Aug. 20, 1952).

2,285,923. (See 2,163,171.) 2,303,368. (See 2,089,209.)

2,336,703, P. F. Skoog, Method of patching veneer sheets; 2,336,704, same, Means for patching veneer sheets, filed Aug. 8, 1952, D. C. Oreg. (Portland), Doc. 6579, *E. V. Prentice Co.* v. *Associated Plywood Mills, Inc.*

2,336,704. (See 2,336,703.)

2,351,004, M. Cameras, Method and means of magnetic recording; 2,351,005, same, Magnetic recorder; 2,351,007, 2,479,308, same, Magnetic recorder head; 2,411,848, same, Neon lamp volume indicator; 2,528,261, same, Apparatus for magnetic recording; 2,549,771, same, Magnetic transducer head; 2,603,721, same, Magnetic recorder with pressure shoe for record member; 2,565,191, R. E. Zenner, Eddy current shield in electromagnetic transducer head, filed June 2, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1158, *Armour Research Foundation of Illinois Institute of Technology* v. *Wilcox-Gay Corp.*

2,351,005. (See 2,351,004.) 2,351,007. (See 2,351,004.)

2,411,848. (See 2,351,004.)

2,429,628, 2,432,523, 2,436,214, 2,466,242, G. W. Johnson, Poultry picking machine, filed Aug. 13, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c1748, *Gordon Johnson Equipment Co.* v. *Kent Equipment Co., Inc.* Consent judgment Aug. 19, 1952. Doc. 52c1749, *Gordon Johnson Equipment Co.* v. *Glade Mfg. Co.* Consent judgment Aug. 19, 1952.

2,432,523. (See 2,429,628.) 2,436,214. (See 2,429,628)

2,466,242. (See 2,429,628.) 2,471,329. (See 2,089,209.)

2,471,395. (See 2,089,209.) 2,479,308. (See 2,351,004.)

2,481,179, J. A. Turini, Method of making buckles; 2,481,180, 2,488,352, same, Buckle assembling machine, C. C. A., 1st Cir., Doc. 4731, *John A. Turini* v. *Allens Mfg. Co., Inc.* Judgment of District Court affirmed (notice Aug. 20, 1952.)

2,481,180. (See 2,481,179.) 2,488,352. (See 2,481,179.)

2,528,261. (See 2,351,004.) 2,549,771. (See 2,351,004.)

2,565,191. (See 2,351,004.) 2,603,721. (See 2,351,004.)

NOTICES

Adjudicated Patents

(D. C. Calif.) Krieger Patent No. D–162,965, for a cap. *Held* valid and infringed. *Krieger* v. *Colby*, 106 F. Supp. 124; 95 USPQ 4.

(D. C., N. J.) Kuhl Patent No. 2,303,747, for lighting fixture. Claim 1 *Held* invalid. *Silvray Lighting, Inc.* v. *Vorsen et al.*, 106 F. Supp. 90; 95 USPQ 15.

Amendments to Amendments

RULE 124. When an amendatory clause is to be amended, it should be wholly rewritten and the original insertion canceled, so that no interlineations or deletions shall appear in the clause as finally presented. Matter canceled by amendment can be reinstated only by a subsequent amendment presenting the canceled matter as a new insertion.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

The following six patents are offered by George H. Kendall, 225 West Ave., Noroton Heights, Darien, Conn., for licensing on reasonable terms. The patents will be made available to the United States Armed Forces free from royalty charges, under arrangement with the owner.

The patents relate to the bearingcast process of ball or roller bearing manufacture of a bimetallic or bimaterial ring principle, to make available bearing mountings at greatly reduced cost. Groups 35—66; 37—22.

Pat. 2,349,281. Pulley Bearing. Patented May 23, 1944. Covers an extended ring bearing made by the bearingcast process of manufacture. Reg. No. 49,549.

Pat. 2,352,206. Controlled Temperature Bearing. Patented June 27, 1944. Covers a temperature-controlled bearing made by the bearingcast process of manufacture. Reg. No. 49,550.

Pat. 2,368,549. Flanged Bearing. Patented Jan. 30, 1945. Covers a flange bearing made by the bearingcast process of manufacture. Reg. No. 49,551.

Pat. 2,370,173. Antifriction Bearing. Patented Feb. 27, 1945. Covers a standard form bearing made by the bearingcast process of manufacture. Reg. No. 49,552.

Pat. 2,376,779. Process for Making Antifriction Bearings. Patented May 22, 1945. Covers the process of bearingcast bearing manufacture. Reg. No. 49,553.

Pat. 2,592,157. Automatic Gauging and Assorting Device. Patented Apr. 8, 1952. Covers an automatic measurement machine for .0001 inch grading and selecting measurement of bearing parts or similar mass-produced parts and of their grading by such small increments to plus or minus of normal. This is a part of the new equipment useful in connection with the bearingcast process of manufacture. Reg. No. 49,554.

Pat. 2,596,769. Plowshare. Patented May 13, 1952. Plowshare of reduced weight is amply reinforced and provided with a cutting edge that is self-sharpening in use. The plowshare comprises a shoe portion, and a body portion which is formed with a cutting portion of reduced thickness throughout. The cutting portion has a series of reinforcing ribs and is provided with a self-sharpening cutting edge. One of the ribs adjacent the shoe portion is arranged substantially parallel to the base of the shoe to reinforce the extreme nose part. The ribs terminate short of the cutting edge so as not to interfere with the cutting action, and also permit appreciable wearing away of the cutting portion. When necessary, the ribs may be shortened by grinding to again provide a substantial distance between the ends of the ribs and the cutting edge, thus prolonging the useful working life of the plowshare. (Owner) Emanuel W. Giedd, 914 South Grange Ave., Sioux Falls, S. Dak. Group 35—22. Reg. No. 49,555.

Pat. 2,588,759. Gas Burner With Secondary Air Supply. Patented Mar. 11, 1952. Gas burner, having a continuous mixing chamber with a thin continuous annular discharge orifice, holds the flame in direct contact with the inner surface of a furnace or boiler. A funnel-shaped base is formed with a depending tubular hub held by a set screw on the end of a supply line. At the upper edges of the upwardly and outwardly extending walls of the base is a horizontally disposed peripheral flange having at its inner edge a continuous upwardly extended orifice lip spaced slightly from the under surface of a baffle. The baffle, mounted above the base, has a flat centrally disposed section, and outwardly extending walls parallel to the base walls and spaced therefrom by bosses around openings in the base walls. Openings in baffle register with openings through bosses to provide secondary air passages. Burner, cast as unit or in bolted sections, may be installed in furnaces already in use. (Owner) L. R. Poschadel, 139 East Garfield Ave., Milwaukee 12, Wis. Group 33—65—69. Reg. No. 49,556.

The following four patents are offered for licensing on a reasonable royalty basis or partnership arrangement by George Wise, 5950 14th St., N. W., Washington 11, D. C. Groups 25—11—14—21—22—41; 34—41; 35—84; 39—17—81.

Pat. 2,556,246. Self-Supporting Extendible Article Holder. Patented June 12, 1951. This invention relates to a self-supporting adjustable shelf and the like. The shelf or rack comprises a body portion of angular design and adjustable slides having resilient pads on both ends, which, when compressed upon insertion into a recess in a cabinet and the like, exert sufficient pressure against the opposite sides of the cabinet to hold the shelf firmly in place without the use of conventional fastening means. The device may be made of aluminum or plastics. The invention has many applications for various types of cabinets, lockers, furniture, etc. The inventor states that one adaptation has been manufactured and applied to a medicine cabinet, and that he has tools and dies available for making the device out of aluminum. Reg. No. 49,557.

Pat. 2,561,681. Cabinet. Patented July 24, 1952. This invention features a cabinet with an article-holding inner case so mounted and attached to the inside of the cabinet and cabinet closure door as to permit the case, with its stored articles, especially those at the extreme rear, to be moved out of and into the cabinet upon the opening and closing of the door. The cabinet door may be hinged vertically at the side of the cabinet or hinged horizontally at the bottom of cabinet. When the door is hinged horizontally, it has an additional advantage in that it forms an extra shelf on which to place the stored articles when in use. In one embodiment, the door acts as a cam, upon opening and closing, to move the case out of and into the cabinet. The invention is especially applicable to everyday storage cabinets, such as medicine and kitchen cabinets, although it can be applied with equal advantage to other types of cabinets, such as refrigerators, deep freezers, etc. Reg. No. 49,558.

Pat. 2,582,812. Cabinet Unit With Changeable Interiors. Patented Jan. 15, 1952. Reg. No. 49,559.

Pat. 2,599,504. Cabinet Unit With Changeable Interior. Patented June 3, 1952. Reg. No. 49,560.

These two inventions provide cabinets with article-supporting and other means for forming various alternate interior arrangements to accommodate different services and different dispositions of the contained articles, as may best suit the convenience of users. A practical application and example of such a cabinet would be a shaving cabinet built into the wall immediately above the wash basin of the ordinary bathroom. In use of the cabinet for shaving, it becomes a simple matter to alter its interior in various ways to meet the requirements of the person shaving regardless of whether he uses a shaving brush, or not, or an electric razor. If desired, the hinged shelf and panel member may be collapsed against the interior of the cabinet to provide one large storage space.

Pat. 2,363,522. Furnace Refractory and Process of Making. Patented Nov. 28, 1944. This patent pertains to the manufacture of refractory brick and other products from the aluminous mineral pyrophyllite of the massive compact variety which is low in alkalies, alkaline earths, and magnesia. The pyrophyllite is bonded with 8% to 30% of fine refractory clay. It is stated that such refractories have a strong resistance to spalling and practically no expansion or contraction during heating to within 200° F. of their softening temperature, which is approximately 3000° F.; that they have high resistance to thermal shock; and that they will withstand greater loads under high temperatures than fireclay refractories. (Co-owner) A. B. Foster, Goulds, Fla. Group 32—55—97. Reg. No. 49,561.

Pat. 2,590,290. Valve for Flexible Hose. Patented Mar. 25, 1952. Valve may be easily interposed in two sections of flexible hose at any distance from the nozzle to effect

turning water on or off without operating the valve where the hose is attached to the water supply. A tube to fit inside hose sections is divided by a transverse cup-shaped diaphragm having a cylindrical flange which forms a press fit with the inner surface of the tube. The diaphragm has a plurality of openings whose sides are radial. Within the tube there is a cup-like rotatable valve member whose flat bottom has openings similar to those in the diaphragm. The cup-like valve member may be rotated by a handle (extending through a slot in the tube) to bring the openings in the valve member and diaphragm into and out of register to open and close the valve. (Owner) Leon A. Chase, 460 Clayton St., Denver 6, Colo. Groups 33—59—61; 35—69. Reg. No. 49,562.

Pat. 2,579,463. Gate Opener. Patented Dec. 25, 1951. Gate-operating mechanism is constructed so that a person can open and close a farm gate or the like without alighting from a vehicle or dismounting from a horse. The gate is hinged to a hollow post and latched to another post in the conventional manner. The inner working parts of the gate-operating mechanism are mounted within the upper end of the hollow post and protected from adverse weather conditions by a cap on top of the post. To open or close the gate a person pulls on one of two cables extending in opposite directions parallel with the roadway. Pull on the cable rotates an arm which actuates shafts and gears to rotate a bar to which are attached two cables spring-connected to the latch and top front corner of the gate, respectively. (Owner) Enoch S. Berglund, 807 South 4th St., Stillwater, Minn. Groups 33—59—81; 35—22. Reg. No. 49,563.

Pat. 2,579,846. Device for Drawing Off Spun Fibres. Patented Dec. 25, 1951. A device for guiding spun fibres to prevent slippage during their drawing off. A take-up roller journaled on a stationary hollow bearing is continuously rotated by a belt-driven pulley. A stationary fibre-spacing holder extends parallel to the roller. A screw shaft extending through the bearing is turned by a wheel secured to its lower end. Upper end of shaft has an extension with a terminal eye through which a fibre-guiding arm, integral with a nut engaging the screw shaft, passes. In-going fibres are drawn through an eyelet at free end of the arm. The arm is movable, not only around the roller and holder, but also axially thereof, so as to wind the in-going fibres around both the roller and holder. (Owner) Bata, narodni podnik. Correspondence to H. D Fitzpatrick & Co., 94 Hope St., Glasgow, C. 2, Scotland. Groups 22—23—51; 35—52. Reg. No. 49,564.

Pat. 2,579,851. Method of Producing Lactams or Their Hydrolytic Products. Patented Dec. 25, 1951. A method of Producing cyclic lactams includes electro-reducing nitric acid in admixture with sulphuric acid to make a solution containing hydroxylamine sulphate and sulphuric acid. The solution is then concentrated and heated, and cyclic ketone slowly added and stirred into the concentrate to make a reaction mixture. The lactams are then separated from the reaction mixture. Modifications and examples are given in the patent. (Owner) Alois Novotny. Correspondence to H. D. Fitzpatrick & Co., 94 Hope St., Glasgow, C. 2, Scotland. Group 28—89. Reg. No. 49,565.

General Electric Company offers the patents listed below for non-exclusive licensing on reasonable terms to domestic manufacturers. Applications for license may be addressed to: Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

The following 27 patents relate to: Insulators for high tension lines, cable clamps, supports, arc extinguishing and other protective devices therefor; insulator for radio antenna on an airplane; radio antenna of the tower type; combined support and insulator for use with a monorail conveyor; apparatus for separating galvanized articles such as washers discharged from a galvanizing bath; a hollow ceramic building block; porcelain pipe with a molded sleeve on the roughened surface of the pipe to which a coupling fitting may be adjustably clamped.

Pat. 2,022,962. Arc Extinguishing Device. Dec. 3, 1935. Group 36—11. Reg. No. 49,566.

Pat. 2,023,808. Shielded Cemented Type Insulator. Dec. 10, 1935. Group 36—11. Reg. No. 49,567.

Pat. 2,025,346. Releasing Clamp. Dec. 24, 1935. Group 35—69. Reg. No. 49,568.

Pat. 2,026,782. Clay Homogenizing Method and Apparatus. Jan. 7, 1936. Group 32—64. Reg. No. 49,569.

Pat. 2,027,301. Fused Grading Shield. Jan. 7, 1936. Group 36—19. Reg. No. 49,570.

Pat. 2,034,707. Apparatus for Making One-Piece Insulators. Mar. 24, 1936. Groups 32—64; 36—61. Reg. No. 49,571.

Pat. 2,043,523. Insulator. June 9, 1936. Groups 32—64; 36—61. Reg. No. 49,572.

Pat. 2,044,332. Apparatus for Forming Ceramic Products. July 21, 1936. Groups 32—64; 36—61. Reg. No. 49,573.

Pat. 2,048,504. Tower Supporting Insulator. July 21, 1936. Groups 32—64; 36—61. Reg. No. 49,574.

Pat. 2,056,813. Flux Distributing Insulator. Oct. 6, 1936. Groups 32—64; 36—61. Reg. No. 49,575.

Pat. 2,073,519. Arc Extinguishing Insulator. Mar. 9, 1937. Groups 32—64; 36—61. Reg. No. 49,576.

Pat. 2,084,866. High Voltage Insulator. June 22, 1937. Groups 32—64; 36—61. Reg. No. 49,577.

Pat. 2,088,433. Fog and Dust Insulator. July 27, 1937. Groups 32—64; 36—61. Reg. No. 49,578.

Pat. 2,093,872. Radio Antenna Insulator for Airplanes. Sept. 21, 1937. Groups 32—64; 36—61. Reg. No. 49,579.

Pat. 2,093,875. Strain Insulator. Sept. 21, 1937. Groups 32—64; 36—61. Reg. No. 49,580.

Pat. 2,096,613. Multithread Pin Insulator Assembly. Oct. 19, 1937. Group 32—64. Reg. No. 49,581.

Pat. 2,136,258. Aerial Cable Support. Nov. 8, 1938. Group 36—31. Reg. No. 49,582.

Pat. 2,232,665. Corona Shield. Feb. 18, 1941. Group 36—61. Reg. No. 49,583.

Pat. 2,246,151. Tower Antenna. June 17, 1941. Group 36—61. Reg. No. 49,584.

Pat. 2,285,964. High Tension Insulator. June 9, 1942. Groups 32—64; 36—61. Reg. No. 49,585.

Pat. 2,292,248. Bushing. Aug. 4, 1942. Group 36—11. Reg. No. 49,586.

Pat. 2,315,082. Cable Clamp. Mar. 30, 1943. Group 36—31. Reg. No. 49,587.

Pat. 2,331,860. Monorail Conveyor. Oct. 12, 1943. Group 36—11. Reg. No. 49,588.

Pat. 2,366,879. Apparatus for Separating Galvanized Articles. Jan. 9, 1945. Group 33—75. Reg. No. 49,589.

Pat. 2,406,235. Porcelain Pipe. Aug. 20, 1946. Group 32—71. Reg. No. 49,590.

Pat. 2,424,111. Ceramic Products. July 15, 1947. Group 32—64. Reg. No. 49,591.

Pat. 2,508,901. Method for Forming Building Blocks. May 23, 1950. Group 32—71. Reg. No. 49,592.

The following 4 patents relate to: Coating glass articles such as high voltage types of electronic discharge devices to render the surface slightly conductive; switch for controlling the paths of guided waves; coupling circuits for electrical signals; system for controlling a gas turbine power plant to prevent excess temperatures in localized portions thereof.

Pat. 2,588,920. Method of Applying a Vitreous Coating Composition to a Glass Base and Article Resulting Therefrom. Mar. 11, 1952. Group 32—29—64. Reg. No. 49,593.

Pat. 2,588,934. Wave Guide Switch. Mar. 11, 1952. Group 36—62. Reg. No. 49,594.

Pat. 2,589,029. Automatic Variable Coupler. Mar. 11, 1952. Group 36—19. Reg. No. 49,595.

Pat. 2,589,074. Control for Gas Turbine Power Plants. Mar. 11, 1952. Group 36—19. Reg. No. 49,596.

The following three patents relate to: Pasted mica products; an apparatus for measuring velocity of gases in flames by use of the Doppler principle; and a multiple element electron lens arrangement, such as are used for focusing electron beams in electron microscopes and diffraction cameras.

Pat. 2,460,140. Method of Pasting Mica. Jan. 25, 1949. Groups 28—34; 32—64. Reg. No. 49,597.

Pat. 2,578,398. Apparatus for Measuring Gas Velocity in Flames. Dec. 11, 1951. Group 39—13. Reg. No. 49,598.

Pat. 2,586,559. Multiple Element Electron Lens Arrangement. Feb. 19, 1952. Group 39—13. Reg. No. 49,599.

The following patent relates to: Variable warp airfoil blades for aircraft propellers or sustaining rotors or the like.

Pat. 2,584,663. Variable Warp Airfoil. Feb. 5, 1952. Group 37—22. Reg. No. 49,600.

TRADE-MARKS

OFFICIAL GAZETTE, OCTOBER 28, 1952

[VOL. 663. No. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 584,634. Nixon Nitration Works, Nixon, N. J. Filed Sept. 9, 1949.



The term "Vine-L" is disclaimed.

For Plasticized and Unplasticized Vinyl Type Plastic Formed Into Sheets, Film, Foil, Rods, Tubes, Filaments, and Small Transverse Sections Into Which Said Rods and Tubes Have Been Divided.

Claims use since Aug. 25, 1949.

Ser. No. 610,673. Cochrane Corporation, Philadelphia, Pa. Filed Mar. 1, 1951. (Classified in Class 6.)

See this serial number in Class 6 for goods and mark.

Claims use since July 1, 1949.

Ser. No. 612,876. Irving Stein, Wilkes-Barre, Pa. Filed Apr. 19, 1951.



The word "Furs" is disclaimed.

For Fur Skins.

Claims use since July 11, 1950.

Ser. No. 619,666. Arthur L. Armentrout, Long Beach, Calif. Filed Oct. 6, 1951.

INSTASEAL

For Dry Composition Composed Principally of Expanded Perlite, Finely Divided Filter Cake Forming Material, and Coarse Ground Dried Bentonite Clay for Introduction Into the Circulation Fluid in Drilling Wells for the Purpose of Recovering Lost Circulation Therein.

Claims use since May 19, 1951.

Ser. No. 621,385. Archer-Daniels-Midland Company, Minneapolis, Minn., and Cleveland, Ohio. Filed Nov. 19, 1951.

LIN-O-CEL

For Finely Ground Cellulosic Product Derived From Vegetable Fibers for Use as an Additive for Foundry Molding Sand and Core Sand Mixtures.

Claims use since May 4, 1951.

Ser. No. 623,997. Tenak Products Company, Chicago, Ill. Filed Jan. 23, 1952.

Tenamold

For Plastic Moldable Tablets for Use in the Formation of Electrotypes, Printing Plates, and Similar Articles.

Claims use since Oct. 4, 1951.

Ser. No. 626,134. American Colloid Company, Chicago, Ill. Filed Mar. 8, 1952.

FIVE STAR

For Processed Wood Flour.

Claims use since Jan. 26, 1948.

Ser. No. 626,739. Gobbler's Knob Hickory, Inc., Paris, Tenn. Filed Mar. 20, 1952.

Gobbler's Knob

For Hardwood Chips.

Claims use since Nov. 10, 1951.

CLASS 2

RECEPTACLES

Ser. No. 627,433. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

KREAMI-FROST

For Empty Bags Made of Glassine, Vegetable Parchment, Cellulose Film, Waxed Paper, or Metal Foil.

Claims use since Mar. 12, 1952.

Ser. No. 627,435. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

FUDGI-FROST

Applicant claims ownership of Registration No. 357,323.
For Empty Bags Made of Glassine, Vegetable Parchment, Cellulose Film, Waxed Paper, or Metal Foil.
Claims use since Feb. 18, 1952.

Ser. No. 627,437. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

DUBBLE DELITE

For Empty Bags Made of Glassine, Vegetable Parchment, Cellulose Film, Waxed Paper, or Metal Foil.
Claims use since Mar. 3, 1952.

Ser. No. 627,439. Fruit Products Corporation, New York, N. Y. Filed Apr. 2, 1952.

ICY-FROST

Applicant claims ownership of Registration No. 368,410.
For Empty Bags Made of Glassine, Vegetable Parchment, Cellulose Film, Waxed Paper, or Metal Foil.
Claims use since Feb. 26, 1952.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 546,141. Whittemore Bros. Corp., Cambridge, Mass. Filed Jan. 3, 1948. (Sec. 2f.)

Whittemore's

Applicant claims ownership of Registration No. 206,862.
For Preparations for Polishing Shoes and Leathers; Burnishing Ink for Burnishing Heels, Edges, and Shanks of Shoes; Dressings for Shoes and Leathers; Preparations for Coloring Shoes and Leathers; Waterproof Preservers for Shoes and Leathers; Preservative Coatings for Shoes and Leathers; Cleaners for Shoes and Leathers; Cleaners for Fabric Shoes and Fabrics; Cleaner and Polish for Windows and Other Glass Surfaces; Ski Wax.
Claims use since Oct. 22, 1884.

Ser. No. 614,942. Hillyard Chemical Company, St. Joseph, Mo. Filed June 8, 1951. (Sec. 2f.)

NEUTONE

Applicant claims ownership of Registration No. 439,652.
For Liquid Wax Floor Dressing, for Cleaning, Polishing, and Preserving Wood Flooring.
Claims use since Jan. 1, 1930.

Ser. No. 615,892. Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Filed June 29, 1951. (Sec. 2f.)

GRIFFIN

Applicant claims ownership of Registrations Nos. 135,250 and 190,017.
For Preparations in Cream, Liquid, Paste, and Wax Form, for Cleaning, Coloring, Dressing, Polishing, and Shining Shoes, Boots, Leather, and Leather Articles.
Claims use since on or about Apr. 4, 1894.

Ser. No. 615,893. Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Filed June 29, 1951.



Applicant claims ownership of Registrations Nos. 135,250 and 190,017.
For Preparations in Cream, Liquid, Paste, and Wax Form, for Cleaning, Coloring, Dressing, Polishing, and Shining Shoes, Boots, Leather, and Leather Articles.
Claims use since Apr. 4, 1894.

Ser. No. 616,009. The Great Atlantic and Pacific Tea Company, New York, N. Y. Filed July 3, 1951.

Bright Sail

The word "Bright" is disclaimed. Applicant claims ownership of Registrations Nos. 382,063, 385,200, and others.
For Liquid Metal Polish and Porcelain Cleaner, Creme Furniture Polish, Cream Silver Polish, and Liquid Wax Polish and Cleaner for Automobiles.
Claims use since August 1948.

Ser. No. 616,297. Mautz Paint & Varnish Company, Madison, Wis. Filed July 10, 1951.

MAUTZ

Applicant claims ownership of Registration No. 288,413.
For Wax—Namely, Polishing, Dance Floor, and Liquid Self-Polishing.
Claims use since 1922.

CLASS 5

ADHESIVES

Ser. No. 628,210. A. W. Kellogg, Long Beach, Calif. Filed Apr. 17, 1952.

KEL-STICK

The word "Stick" is disclaimed.
For Liquid Adhesive.
Claims use since May 5, 1948.

Ser. No. 628,968. Otto E. Stelzer, German Township, St. Joseph County, Ind. Filed Apr. 30, 1952.

PAXITE

For Acrylic Cement in the Nature of a Heavy Bodied, All Purpose Cement for Binding Glass, Metal, Plastic, Masonry, and Wood.
Claims use since Jan. 5, 1952.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 546,141. Whittemore Bros. Corp., Cambridge, Mass. Filed Jan. 3, 1948. (Classified in Class 4.) (Sec. 2f.)
Applicant claims ownership of Registration No. 206,862.
See this serial number in Class 4 for goods and mark.
Claims use since Oct. 22, 1884.

Ser. No. 567,193. The William Getz Corporation, Chicago, Ill. Filed Oct. 19, 1948. (Classified in Class 18.)
See this serial number in Class 18 for goods and mark.
Claims use since Aug. 5, 1948.

Ser. No. 574,942. Carter Sanitary Supply Co., Inc., Cincinnati, Ohio. Filed Mar. 2, 1949.

AIR RENU

For Odor Neutralizer Used as a Room Deodorant.
Claims use since May 1, 1948.

Ser. No. 581,798. Danciger Oil & Refining Company, Fort Worth, Tex., assignor to Southern Production Company, Inc., Fort Worth, Tex. Filed July 12, 1949.

DORCOL

The drawing is lined for red.
For Organic Solvent.
Claims use since Jan. 24, 1949.

Ser. No. 593,061. Feller-Jones Corporation, New York, N. Y. Filed Feb. 25, 1950. (Classified in Class 52.)
The word "Clean" is disclaimed.
See this serial number in Class 52 for goods and mark.
Claims use since Oct. 25, 1949.

Ser. No. 595,375. Earle A. Goodenow, doing business as G-M Liquid Plastics, Ltd., Oklahoma City, Okla. Filed Apr. 7, 1950.

plastette

For Liquid for Treating Nylon and Other Fabrics To Increase Their Resistance to Snags, Picks, and Runs.
Claims use since Jan. 17, 1950.

Ser. No. 599,801. Allied Chemical & Dye Corporation, New York, N. Y. Filed June 27, 1950.

AIR-EX

The word "Air" is disclaimed.
For Aerosol Insecticidal Compositions for Household and Similar Uses.
Claims use since June 12, 1950.

Ser. No. 610,406. Atlas Powder Company, Wilmington, Del. Filed Feb. 23, 1951.

HYDRODARCO

Applicant claims ownership of Registration No. 283,332.
For Adsorptive Carbons Used for Water Purification.
Claims use since Nov. 12, 1930.

Ser. No. 610,673. Cochrane Corporation, Philadelphia, Pa. Filed Mar. 1, 1951.

COCHRANEX

For Resins To Accomplish Ion Exchange, Ion Exchange Material, and Natural and Synthetic Zeolite.
Claims use since July 1, 1949.

Ser. No. 614,942. Hillyard Chemical Company, St. Joseph, Mo. Filed June 8, 1951. (Classified in Class 4.) (Sec. 2f.)
Applicant claims ownership of Registration No. 439,652.
See this serial number in Class 4 for goods and mark.
Claims use since Jan. 1, 1930.

Ser. No. 615,892. Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Filed June 29, 1951. (Classified in Class 4.) (Sec. 2f.)
Applicant claims ownership of Registrations Nos. 135,250 and 190,017.
See this serial number in Class 4 for goods and mark.
Claims use since on or about Apr. 4, 1894.

Ser. No. 615,893. Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Filed June 29, 1951. (Classified in Class 4.)
Applicant claims ownership of Registrations Nos. 135,250 and 190,017.
See this serial number in Class 4 for goods and mark.
Claims use since Apr. 4, 1894.

Ser. No. 617,636. Universal Refining Products Co., Inc., New York, N. Y. Filed Aug. 13, 1951. (Sec. 2f.)

DIESELKOOL

For Chemical Compound for Prevention of Corrosion. Scale in Diesel Engine Cooling Equipment.
Claims use since Apr. 18, 1941.

Ser. No. 621,419. Pharma Chemical Corporation, New York, N. Y., and Bayonne, N. J. Filed Nov. 19, 1951.

PHARMA

Applicant claims ownership of Registrations Nos. 275,566, 341,983, and 343,066.
For Dyes, and Intermediate Chemicals for Use in Combination With Other Chemicals To Produce a Final Dye Product.
Claims use since 1923.

Ser. No. 621,671. Adrianus Kleijn, trading as Chefaro Chemische Fabriek "Rotterdam," Rotterdam-West, South Holland, Netherlands. Filed Nov. 26, 1951.

CHEFARO „G"

The letter "G" is disclaimed. Applicant claims ownership of Dutch Registration No. 59,220, dated Mar. 10, 1930.
For Chemical Preparation for the Treatment of Flour.

Ser. No. 621,672. Adrianus Kleijn, trading as Chefaro Chemische Fabriek "Rotterdam," Rotterdam-West, South Holland, Netherlands. Filed Nov. 26, 1951.

CHEFAROX

Applicant claims ownership of Dutch Registration No. 76,693, dated Sept. 1, 1941.
For Chemical Flour Bleach.

Ser. No. 621,750. The Bird-Archer Company, New York, N. Y. Filed Nov. 28, 1951.

CONCENTROL

For Chemical Compound for Conditioning Boiler Water—Namely, for the Prevention of Foaming and Carry-over During Steam Generation.
Claims use since Sept. 1, 1944, in Canada; and since May 1947 in commerce among the several States of the United States.

Ser. No. 622,535. Gardiner Manufacturing Company, Inc., Buffalo, N. Y. Filed Dec. 15, 1951. (Classified in Class 52.)
Applicant claims ownership of Registrations Nos. 163,782 and 285,247.
See this serial number in Class 52 for goods and mark.
Claims use since Apr. 1, 1920.

Ser. No. 623,706. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Filed Jan. 17, 1952.

ORTHOTRAN

Applicant claims ownership of Registrations Nos. 121,042, 423,264, and others.
For Ovicides and Miticides.
Claims use since Nov. 19, 1951.

Ser. No. 625,044. Solvay & Cie., Brussels, Belgium. Filed Feb. 15, 1952.

SOLVEXANE

Applicant claims ownership of Belgian Registration No. 64,832, dated Sept. 14, 1948.
For Insecticides, Insect Repellents, and Disinfectants.

Ser. No. 625,146. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952. (Sec. 2f.)

NARCISSUS

For Spray Fluid Deodorant for Industrial Use.
Claims use since Jan. 1, 1928.

Ser. No. 625,149. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952. (Sec. 2f.)

RETINOLE

For Deodorizing Fluid for Use in Drip Machines for Urinals and Water Closets.
Claims use since Jan. 1, 1906.

Ser. No. 625,159. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

ALLUREA

For Spray Fluid Deodorant for Industrial Use.
Claims use since Mar. 1, 1928.

Ser. No. 625,526. El Dorado Oil Works, San Francisco, Calif. Filed Feb. 26, 1952.

ELDOPLAST

For Plasticizers.
Claims use since Jan. 23, 1952.

Ser. No. 625,634. O. M. Scott & Sons Company, Marysville, Ohio. Filed Feb. 27, 1952.



The representation of the container is disclaimed. The figure is fanciful.
For Chemical Preparation Designed for Controlling and Destroying Weeds and Controlling Pests.
Claims use since Mar. 1, 1940.

Ser. No. 626,338. The Perma Products Company, Cleveland, Ohio. Filed Mar. 12, 1952. (Sec. 2f.)

ROT-BAN

Applicant claims ownership of Registration No. 429,507.
For Fungicidal Preparation for Wood and Fabrics, the Preparation Being in the Nature of a Chemical, as Distinguished From a Paint.
Claims use since Feb. 4, 1946.

Ser. No. 626,362. American Tempo Corporation, Chicago, Ill. Filed Mar. 13, 1952.



The word "Fuel" is disclaimed. The drawing is lined for red.
For Liquid Hydrocarbon, Fuel Packaged in Disposable Containers for Use With Small Portable Gas Burners.
Claims use since July 2, 1951.

Ser. No. 627,353. Phillips Chemical Company, Bartlesville, Okla. Filed Mar. 31, 1952.

PHILRICH

For Petroleum Oils for Plasticizing, Softening and Extending Polymeric Materials.
Claims use since Mar. 12, 1952.

Ser. No. 627,428. Eutectic Welding Alloys Corporation, Flushing, N. Y. Filed Apr. 2, 1952.

INERTIC

For Chemical Flux for Use in Welding Processes.
Claims use since Feb. 28, 1952.

Ser. No. 628,149. Farbwerke Hoechst vormals Meister Lucius & Bruning, Frankfort-on-the-Main-Hochst, Germany. Filed Apr. 16, 1952.

'TRITISAN'

Applicant claims ownership of German Registration No. 486,628, dated July 3, 1936.
For Seed Dressing Agents.

Ser. No. 628,204. Hercules Powder Company, Wilmington, Del. Filed Apr. 17, 1952.

HERCULES

For Defoamers for Breaking Foam in Paper Making and Other Industrial Processes.
Claims use since Mar. 7, 1952.

Ser. No. 628,205. Hercules Powder Company, Wilmington, Del. Filed Apr. 17, 1952.



For Defoamers for Breaking Foam in Paper Making and Other Industrial Processes.
Claims use since Mar. 7, 1952.

Ser. No. 628,264. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Apr. 18, 1952.

Baygenal

Applicant claims ownership of German Registration No. 610,631, dated Aug. 17, 1951.
For Dyes.

Ser. No. 628,265. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Apr. 18, 1952.

Benzamine

Applicant claims ownership of German Registration No. 610,204, dated Aug. 7, 1951.
For Dyes and Dyestuffs.

Ser. No. 628,268. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Apr. 18, 1952.

Levachrome

Applicant claims ownership of German Registration No. 610,633, dated Aug. 17, 1951.
For Dyes and Dyestuffs.

Ser. No. 628,269. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany. Filed Apr. 18, 1952.

Telon

Applicant claims ownership of German Registration No. 610,635, dated Aug. 17, 1951.
For Dyes.

Ser. No. 628,471. Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Filed Apr. 22, 1952.



Applicant claims ownership of Registrations Nos. 529,050, 401,529, and others.
For Chemicals and Chemical Compositions—Namely, Sodium Chloride; Soda Ash in Light and Dense Form and in the Form of Briquettes With Hydrocarbon Binder; Caustic Soda; Sodium Bicarbonate in Powdered and Granular Form; Mixtures of the Following: Sodium Carbonate and Sodium Bicarbonate; Sodium Carbonate, Sodium Bicarbonate and Tri-Sodium Phosphate; Soda Ash and Caustic Soda; Caustic Soda and Tri-Sodium Phosphate; Caustic Soda, Sodium Carbonate, Sodium Metasilicate and Tri-Sodium Phosphate; and Sodium Bicarbonate and Tri-Sodium Phosphate, Calcium Silicate, Calcium Carbonate, Silica, Chlorinated Hydrocarbons, Isopropyl-N(3 Chlorophenyl) Carbamate, Isopropyl-N-Phenyl Carbamate, 2,4-Dichlorophenoxyacetic Acid.
Claims use since Sept. 24, 1951.

Ser. No. 629,006. The Flintkote Company, New York, N. Y. Filed May 1, 1952.

FLINTSIZE

For Bituminous Paper Sizing Composition.
Claims use since during December 1944.

Ser. No. 631,737. Holland Color and Chemical Company, Holland, Mich. Filed June 25, 1952.



Applicant claims ownership of Registration No. 550,018.
For Chemical Colors—Namely, Pigments, Lakes, and Toners in Both Dry and Liquid Forms, and Chemical Intermediates for the Same.
Claims use since in or about the month of January 1952.

CLASS 7

CORDAGE

Ser. No. 623,519. Plas-Ties Company, Santa Ana, Calif. Filed Jan. 12, 1952.

PLAS-TIES

The word "Ties" is disclaimed.
For Plant and Bunching Ties for Plants and Vegetables, Comprising a Flexible Core Enclosed in a Ribbon of Polyvinyl Chloride or Like Flexible Material.
Claims use since Dec. 1, 1950.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 613,764. Corning Glass Works, Corning, N. Y. Filed May 11, 1951. (Sec. 2f.)

STEUBEN

Applicant claims ownership of Registration No. 132,339.
For Articles of Glass—Namely, Glass Ash Trays and Cigarette Boxes and Cigarette Containers.
Claims use since Jan. 1, 1904.

Ser. No. 614,868. Corning Glass Works, Corning, N. Y. Filed June 7, 1951. (Sec. 2f.)

Steuben

Applicant claims ownership of Registration No. 132,339.
For Articles of Glass—Namely, Glass Ash Trays and Cigarette Boxes and Cigarette Containers.
Claims use since Jan. 1, 1904.

Ser. No. 622,290. Beigo Canadian Mfg. Co. Ltd., Montreal, Quebec, Canada. Filed Dec. 10, 1951.

bd

For Cigarette Lighters and Flints Therefor, Cigarette Cases, Cigarette and Lighter Case Combinations, Smoking Pipes, Cigarette Holders, and Ash Trays.
Claims use since September 1951; and first used in commerce between foreign nations and the United States in September 1951.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 608,412. B. F. Drakenfeld & Co., Inc., New York, N. Y., and Washington, Pa. Filed Jan. 5, 1951.

Drakotherm

For Thermoplastic Material That Is Mixed With Ceramic Colors for Screen Printing.
Claims use since Mar. 27, 1950.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 559,125. United States Gypsum Company, Chicago, Ill. Filed June 12, 1948.

TRIPLE-VENT

The word "Vent" is disclaimed.
For Basement Sash.
Claims use since Mar. 5, 1948.

Ser. No. 574,037. Johns-Manville Corporation, New York, N. Y. Filed Feb. 17, 1949.

RING-TITE

For Asbestos-Cement Pipe Couplings.
Claims use since Aug. 31, 1948.

Ser. No. 583,685. Faries Manufacturing Company, Decatur, Ill. Filed Aug. 19, 1949.

HI-DIT

For Medicine Cabinets of the Recessed Type for Wall Insertion.
Claims use since July 29, 1949.

Ser. No. 584,636. Pax Metal Corporation, Los Angeles, Calif. Filed Sept. 9, 1949.

CROMOLD

For Finished Metal Building Trim—Namely, Metal Mouldings.
Claims use since Apr. 18, 1949.

Ser. No. 586,179. Loxit Systems, Inc., Chicago, Ill. Filed Oct. 12, 1949.

Loxalite

For Metal Chalk Troughs, Head and Mullion Trim Channels, and Metal End Stops Used in Installing Chalkboards and Tack Boards.
Claims use since February 1949.

Ser. No. 591,567. Gladding, McBean & Co., Los Angeles, Calif. Filed Jan. 27, 1950. (Sec. 2f.)

DURA-GLAZE

For Ceramic Floor and Wall Tile.
Claims use since June 4, 1940.

Ser. No. 592,373. Klauer Manufacturing Company, Dubuque, Iowa. Filed Feb. 13, 1950.



Applicant claims ownership of Registration No. 271,366.
For Stamped Metal Ceilings; Metal Roofings of the Corrugated, Standing Seam, Non-Siphoning, and V-Crimp Types; and Eave Troughs, Eave Trough Mitres, Eave Trough End Pieces, Roof Gutters, Box Gutters, Ridge Rolls for Roofs, Ornamental Globe Finials for Roofs, Continuous Hip Shingles, Roof Edge and Eaves Drip To Protect the Edges of Wooden Roofs From Moisture, Batten Strips, Sidings, Roof Windows, Side Windows and Frames, Roof Drain Conductor Pipes, Roof Drain Conductor Pipe Elbows, Formed Valleys for Roofs, Roll Valleys for Roofs, Corner Beads, Building Corners, and Rain Water Cut Offs, All Made of Metal.
Claims use since 1904.

Ser. No. 602,285. Pfaff & Kendall, Newark, N. J. Filed Aug. 16, 1950.

P&K

For Street and Highway Lighting Standards and Poles.
Claims use since May 1940.

Ser. No. 606,175. Re-Nu-It Corporation, New York, N. Y., assignor to Nu • Side Corporation, New York, N. Y., a corporation of New York. Filed Nov. 9, 1950.

NU ★ SIDE

For Resurfacing Material, Comprising an Asbestos and Mica Mixture in Liquid Form Used To Insulate, Protect, and Beautify Stucco, Brick, Wood, Concrete, Cinder Block, Asbestos Siding and Other Types of Building Exteriors.
Claims use since Aug. 3, 1950.

Ser. No. 607,228. Met-L-Glas Corporation, Seattle, Wash. Filed Dec. 2, 1950.

MET-L-GLAS

For Sectional Tubular Thermal Insulating Members for Conduits, e. g., Removable Tubular Members Which May Be Installed About Pipes Carrying a Fluid Having a Temperature Above or Below the Ambient Temperature Surrounding the Pipe.
Claims use since Aug. 15, 1950.

Ser. No. 612,349. Plibrico Jointless Firebrick Company, Chicago, Ill., now by change of name Plibrico Company. Filed Apr. 6, 1951. (Sec. 2f as to "Super"—Additional evidence.)

SUPERAL

For Thermosetting Plastic Refractory Material Which Is Used (for Example, but Not Limited Thereto) for Lining Furnaces Operating at Extremely High Temperatures.
Claims use since Mar. 1, 1947.

Ser. No. 612,736. Reuben E. Ottenheimer, Baltimore, Md. Filed Apr. 17, 1951.

REOLITE

For Window Sash, Window Frames, Window Molding, Multiple Glazed Windows and Doors and Structural Components Thereof, Panels and Panel Molding.
Claims use since Mar. 15, 1951.

Ser. No. 615,379. Flex-O-Glass, Inc., doing business as Warp Brothers, Chicago, Ill. Filed June 19, 1951. (Sec. 2f.)

WYR-KRAFT

Applicant claims ownership of Registration No. 422,104.
For Laminated, Flexible, Metallic-Netting-Reinforced Building Paper.
Claims use since November 1942.

Ser. No. 622,475. Zonolite Company, Chicago, Ill. Filed Dec. 13, 1951.

ZONOPERL

Applicant claims ownership of Registrations Nos. 346,096, 346,097, and others.
For Plaster and Concrete Aggregate.
Claims use since Oct. 1, 1951.

Ser. No. 622,684. American Rock Wool Corp., Wabash, Ind. Filed Dec. 19, 1951.

-THERMAF FIBER-

For Thermal Insulating Material of Mineral Wool.
Claims use since Nov. 30, 1951.

Ser. No. 628,310. United States Gypsum Company, Chicago, Ill. Filed Apr. 18, 1952.

HYDROPERM

For Metal Casting Plaster.
Claims use since June 18, 1951.

CLASS 13

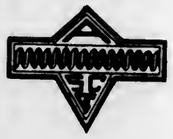
HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 571,290. The William Powell Company, Cincinnati, Ohio. Filed Dec. 29, 1948.

MASTER PILOT

For Gate Valves.
Claims use since Jan. 1, 1926.

Ser. No. 609,157. Automatic Spring Coiling Co., Chicago, Ill. Filed Jan. 24, 1951.



For Precision Mechanical Springs—Namely, Coil and Flat Springs, and Wire Shapes, Made to Customer Specifications.
Claims use since Aug. 21, 1950.

Ser. No. 617,657. The Eastern Venetian Blind Company, trading as Eastern Machine Products Co., Baltimore, Md. Filed Aug. 14, 1951.

Gem

For Traverse Tracks for Drapery.
Claims use since August 1950.

Ser. No. 620,085. Breco Manufacturing Co., Baltimore, Md. Filed Oct. 17, 1951.

BRECOMATIC

For Couplings for Rods and Pipes.
Claims use since Sept. 6, 1951.

Ser. No. 620,838. The Denison Engineering Company, Columbus, Ohio. Filed Nov. 3, 1951. (Sec. 2f.)

DENISON

For Valves Used in Hydraulic Control Systems—Namely, Spool-Type Distributing Valves, Pressure Relief Valves, Check Valves, Unloading Valves, Surge Damping Valves, Pilot Operated Distributing Valves.
Claims use since Sept. 13, 1933.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 598,192. La Salle Steel Company, Hammond, Ind. Filed May 26, 1950.

REDI-BOLT

The word "Bolt" is disclaimed.
For Threaded Steel Rods.
Claims use since March 1950.

Ser. No. 620,428. Metals Refining Company Inc., Hammond, Ind., assignor to American Smelting and Refining Company, New York, N. Y., a corporation of New Jersey. Filed Oct. 24, 1951. (Sec. 2f.)

WILKES

Applicant claims ownership of Registration No. 163,663.
For Type Metal.
Claims use since Oct. 15, 1921.

CLASS 15

OILS AND GREASES

Ser. No. 627,598. Petroleum Specialties, Inc., New York, N. Y. Filed Apr. 4, 1952.

LITENE

For Wax of Petroleum Origin.
Claims use since Sept. 6, 1946.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 546,141. Whittemore Bros. Corp., Cambridge, Mass. Filed Jan. 3, 1948. (Classified in Class 4.) (Sec. 2f.)
Applicant claims ownership of Registration No. 206,862.
See this serial number in Class 4 for goods and mark.
Claims use since Oct. 22, 1884.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 624,444. T. E. Brooks & Co., Red Lion, Pa. Filed Feb. 2, 1952.

HAVE A SWEET

The word "Sweet" is disclaimed.
For Cigars.
Claims use since 1941.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 567,193. The William Getz Corporation, Chicago, Ill. Filed Oct. 19, 1948.

Theraseptic

For Germicidal Preparation for Use in Sterilizing Articles and as a Disinfectant for External Use on the Body.
Claims use since Aug. 5, 1948.

Ser. No. 600,826. Foley & Company, Chicago, Ill. Filed July 18, 1950.

COLDFYTER

For Antibiotic Anesthetic Throat Lozenges.
Claims use since July 12, 1950.

Ser. No. 601,339. The Smith-Dorsey Company, Lincoln, Nebr., assignor to The Wander Company, Chicago, Ill., a corporation of Delaware. Filed July 27, 1950.

NEUTRAPHYLLINE

For Antasthmatic Rectal Suppositories Containing Aminophylline.
Claims use since June 14, 1950.

Ser. No. 606,254. Armour and Company, Chicago, Ill. Filed Nov. 13, 1950.

TRYPTAR

Applicant claims ownership of Registration No. 37,744.
For Trypsin for Use as a Drug.
Claims use since Oct. 23, 1950.

Ser. No. 609,033. Foley & Company, Chicago, Ill. Filed Jan. 20, 1951. (Sec. 2f as to "Foley.")



The profiles appearing in the mark are fanciful. Applicant claims ownership of Registrations Nos. 61,926, 88,620, 128,697, and 129,456.
For Antibiotic Anesthetic Throat Lozenges.
Claims use since June 15, 1950, as to the mark shown; and since Jan. 1, 1895, as to the mark "Foley."

Ser. No. 612,331. International Minerals & Chemical Corporation, Chicago, Ill. Filed Apr. 6, 1951.

BETACYAMINE

For Composition of Glycocyamine and a Methylating Agent Such as Betaine Hydrate in Liquid or Powder Form Useful in the Treatment of Muscular Deficiencies.
Claims use since Jan. 24, 1951.

Ser. No. 614,267. E. R. Squibb & Sons, New York, N. Y. Filed May 23, 1951.

AFSILLIN

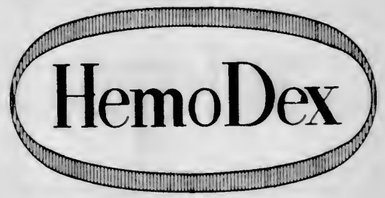
For Preparation for Animal Feed Supplementation.
Claims use since May 2, 1951.

Ser. No. 616,504. Laros Textiles Company, doing business under the name of Laros of Bethlehem, Bethlehem, Pa. Filed July 14, 1951.

HemoDex

For Drugs Consisting of an Aqueous Non-Pyrogenic Sterile 6% Solution of Fractionated Hydrolyzed Dextran With 0.9% Sodium Chloride and Used for Emergency Replacement of Blood Plasma Volume Resulting From Burn, Wound, Traumatic, Surgical, or Secondary Shock.
Claims use since May 1, 1951.

Ser. No. 616,505. Laros Textiles Company, doing business under the name of Laros of Bethlehem, Bethlehem, Pa. Filed July 14, 1951.



The drawing is lined for the color red.
For Drugs Consisting of an Aqueous Non-Pyrogenic Sterile 6% Solution of Fractionated Hydrolyzed Dextran With 0.9% Sodium Chloride and Used for Emergency Replacement of Blood Plasma Volume Resulting From Burn, Wound, Traumatic, Surgical, or Secondary Shock.
Claims use since May 1, 1951.

Ser. No. 620,216. Imperial Chemical (Pharmaceuticals) Limited, Millbank, London, England. Filed Oct. 19, 1951.

MYSOLINE

Applicant claims ownership of British Registration No. 667,309, dated Feb. 27, 1948.
For Anticonvulsants.

Ser. No. 620,659. Edward Fletcher Barrows, doing business as Basic Remedies, Monmouth, Oreg. Filed Oct. 30, 1951.

Samsonade

For Bottled Fluid Preparation for Stimulating the Appetite, and Containing Specified Amounts of Such Ingredients as Gentian Fluid Extract and Alcohol.
Claims use since Dec. 3, 1949.

Ser. No. 621,617. Commercial Solvents Corporation, New York, N. Y. Filed Nov. 24, 1951.

CSC

Applicant claims ownership of Registration No. 435,177.
For Pharmaceuticals and Ingredients of Pharmaceuticals—Namely, Antibiotics, Such as Bacitracin and Penicillin Compositions, Barium Sulfate for X-Ray Diagnosis, Choline Salts Including the Bicarbonate and Gluconate, Clinical Dextran, Compositions Comprising Choline and Inositol, Compositions Containing Predetermined Amounts of Different Antibiotics Used for Diagnostic Purposes, Distilled Water, Glucuronolactone Composition, Compositions Comprising Glucuronolactone and Streptomycin, Isotonic Solution of Sodium Chloride, Inositol Hexanitrate Compositions for Use in Treatment of Hypertension; Compositions Comprising 1,2,3,4,5,6-Hexachlorocyclohexane; Ophthalmic Compositions, Vitamins Including Riboflavin, Animal and Poultry Feed Supplements Containing Vitamin Concentrates, Choline Compositions, Dried Fermentation Residues, Vitamins and Antibiotics Either Alone or in Combination and With or Without Nutritive Elements.
Claims use since Apr. 29, 1944.

Ser. No. 621,867. Coastal Laboratories, Inc., Miami, Fla. Filed Nov. 30, 1951.

sul•spa

For Sulphur Compound in Suspension for the Relief of Local Pains.
Claims use since July 1, 1951.

Ser. No. 621,895. Mother's Remedies Corporation, Chicago, Ill. Filed Nov. 30, 1951.

APRILLA

The term "The Year Round Spring Tonic" is disclaimed.
For Liquid Dietary Vitamin Tonic.
Claims use since Aug. 14, 1951.

Ser. No. 621,930. Zerbst Pharmacal Company, Inc., St. Joseph, Mo. Filed Nov. 30, 1951.

ZERB-O-HIST

For Preparation for the Treatment of Colds.
Claims use since June 6, 1951.

Ser. No. 622,190. Abbott Laboratories, North Chicago, Ill. Filed Dec. 7, 1951.

LEVOTHYL

For Analgesic.
Claims use since Nov. 15, 1951.

Ser. No. 622,244. American Cyanamid Company, New York, N. Y. Filed Dec. 8, 1951.

GEVRABON

Applicant claims ownership of Registration No. 554,004.
For Medicinal Vitamin Preparation.
Claims use since Nov. 20, 1951.

Ser. No. 622,365. The Superior Pharmacal Co., Dayton, Ohio. Filed Dec. 11, 1951.

CEL-LUMA

For Antacid for Treatment of Stomach Ulcers and Related Complaints.
Claims use since Nov. 16, 1951.

Ser. No. 622,473. Wyeth Incorporated, Philadelphia, Pa. Filed Dec. 13, 1951.

BICILLIN

Applicant claims ownership of Registrations Nos. 308,628 and 423,365.
For Dibenzylethylenediamine Dipenicillin.
Claims use since Nov. 28, 1951.

Ser. No. 622,483. The Denver Chemical Manufacturing Company, New York, N. Y. Filed Dec. 14, 1951.

DENCOTAR

Applicant claims ownership of Registration No. 405,820.
For Sulphurated Ointment Primarily Intended for Use in the Treatment of Various Skin and Scalp Conditions.
Claims use since Aug. 10, 1951.

Ser. No. 623,523. Wyeth Incorporated, Philadelphia, Pa. Filed Jan. 12, 1952.

LESOFAC

For Low Sodium, Low Fat Food, for Use as a Dietary Supplement.
Claims use since Dec. 26, 1951.

Ser. No. 623,898. Virgil Edgar Meadows, Bronxville, N. Y. Filed Jan. 22, 1952.

SURACREME

For Medicated Liquid Skin Cream for Relieving Itching and To Assist in Healing of the Skin.
Claims use since Jan. 2, 1952.

Ser. No. 624,085. John Heisele, St. Louis, Mo. Filed Jan. 23, 1952.



The mark consists of the portrait of Max Heisele whose consent has been obtained.
For Preparation for the Treatment of Piles.
Claims use since Dec. 1, 1910.

Ser. No. 625,839. White Laboratories, Inc., Kenilworth, N. J. Filed Mar. 1, 1952.

APPLIDERM

For Dermatological Preparation.
Claims use since Feb. 14, 1952.

Ser. No. 625,840. White Laboratories, Inc., Kenilworth, N. J. Filed Mar. 1, 1952.

DENTODYNE

For Oro-Mucosal Analgesic Preparation.
Claims use since Mar. 30, 1951.

Ser. No. 625,920. The Rabin Company, Los Angeles, Calif. Filed Mar. 4, 1952.

VYTERALS

For Vitamin Preparations in Capsule and Tablet Form.
Claims use since Feb. 1, 1951.

Ser. No. 626,094. The S. E. Massengill Company, Bristol, Tenn. Filed Mar. 7, 1952.

AMINODROX

For Oral Pharmaceutical Preparation Indicated in Treating Coronary and Asthmatic Conditions.
Claims use since Feb. 13, 1952.

Ser. No. 626,466. Merck & Co., Inc., Rahway, N. J. Filed Mar. 14, 1952.

NALLINE

For Therapeutic Substance Useful in Counteracting Certain Undesirable Effects (Particularly Respiratory Depression) Induced by Natural and Synthetic Narcotic Drugs.
Claims use since Mar. 1, 1952.

Ser. No. 627,972. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

SYNPLAS

For Polyvinyl Pyrrolidone in Bulk.
Claims use since Feb. 25, 1952.

Ser. No. 628,085. Allied Products, Inglewood, Calif. Filed Apr. 15, 1952.

PILEODYNE

The word "Pile" is disclaimed.
For Preparation for the Relief of Piles.
Claims use since July 15, 1948.

Ser. No. 628,468. Chilcott Laboratories, Inc., Morris Plains, N. J. Filed Apr. 22, 1952.

CL

For Medical Preparations for the Treatment of Hypertension and Angina Pectoris.
Claims use since Oct. 11, 1951.

Ser. No. 628,800. Westminster Laboratories Limited, London, England. Filed Apr. 26, 1952.

SENOKOT

Applicant claims ownership of British Registration No. 659,157, dated May 15, 1947.
For Laxative Preparations.

Ser. No. 631,202. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Filed June 14, 1952.

STRAMINOL

Applicant claims ownership of Swiss Registration No. 137,301, dated Mar. 24, 1951.
For Pharmaceutical Preparations for Use as Disinfectants.

Ser. No. 633,646. American Cyanamid Company, New York, N. Y. Filed Aug. 9, 1952.

FALVIN

For Antimalarial Preparation.
Claims use since July 24, 1952.

CLASS 19

VEHICLES

Ser. No. 609,804. La Motoconfort, Pantin (Seine), France. Filed Feb. 8, 1951.

MOTOCONFORT

Applicant claims ownership of French Registration No. 308,087, dated Nov. 10, 1939.
For Motorcycles.

Ser. No. 611,305. Piasecki Helicopter Corporation, Morton, Pa. Filed Mar. 14, 1951. (Sec. 2f—Additional evidence.)

Piasecki

For Aircraft of the Helicopter Type.
Claims use since July 1945.

Ser. No. 621,617. Commercial Solvents Corporation, New York, N. Y. Filed Nov. 24, 1951.

CSC

Applicant claims ownership of Registration No. 435,177.
For Pharmaceuticals and Ingredients of Pharmaceuticals—Namely, Antibiotics, Such as Bacitracin and Penicillin Compositions, Barium Sulfate for X-Ray Diagnosis, Choline Salts Including the Bicarbonate and Gluconate, Clinical Dextran, Compositions Comprising Choline and Inositol, Compositions Containing Predetermined Amounts of Different Antibiotics Used for Diagnostic Purposes, Distilled Water, Glucuronolactone Composition, Compositions Comprising Glucuronolactone and Streptomycin, Isotonic Solution of Sodium Chloride, Inositol Hexanitrate Compositions for Use in Treatment of Hypertension; Compositions Comprising 1,2,3,4,5,6-Hexachlorocyclohexane; Ophthalmic Compositions, Vitamins Including Riboflavin, Animal and Poultry Feed Supplements Containing Vitamin Concentrates, Choline Compositions, Dried Fermentation Residues, Vitamins and Antibiotics Either Alone or in Combination and With or Without Nutritive Elements.
Claims use since Apr. 29, 1944.

Ser. No. 621,867. Coastal Laboratories, Inc., Miami, Fla. Filed Nov. 30, 1951.

sul*spa

For Sulphur Compound in Suspension for the Relief of Local Pains.
Claims use since July 1, 1951.

Ser. No. 621,895. Mother's Remedies Corporation, Chicago, Ill. Filed Nov. 30, 1951.

APRILLA

The term "The Year Round Spring Tonic" is disclaimed.
For Liquid Dietary Vitamin Tonic.
Claims use since Aug 14, 1951.

Ser. No. 621,930. Zerbst Pharmacal Company, Inc., St. Joseph, Mo. Filed Nov. 30, 1951.

ZERB-O-HIST

For Preparation for the Treatment of Colds.
Claims use since June 6, 1951.

Ser. No. 622,190. Abbott Laboratories, North Chicago, Ill. Filed Dec. 7, 1951.

LEVOTHYL

For Analgesic.
Claims use since Nov. 15, 1951.

Ser. No. 622,244. American Cyanamid Company, New York, N. Y. Filed Dec. 8, 1951.

GEVRABON

Applicant claims ownership of Registration No. 554,004.
For Medicinal Vitamin Preparation.
Claims use since Nov. 20, 1951.

Ser. No. 622,365. The Superior Pharmacal Co., Dayton, Ohio. Filed Dec. 11, 1951.

CEL-LUMA

For Antacid for Treatment of Stomach Ulcers and Related Complaints.
Claims use since Nov. 16, 1951.

Ser. No. 622,473. Wyeth Incorporated, Philadelphia, Pa. Filed Dec. 13, 1951.

BICILLIN

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For Dibenzylethylenediamine Dipenicillin.
Claims use since Nov. 28, 1951.

Ser. No. 622,483. The Denver Chemical Manufacturing Company, New York, N. Y. Filed Dec. 14, 1951.

DENCOTAR

Applicant claims ownership of Registration No. 405,820.
For Sulphurated Ointment Primarily Intended for Use in the Treatment of Various Skin and Scalp Conditions.
Claims use since Aug. 10, 1951.

Ser. No. 623,523. Wyeth Incorporated, Philadelphia, Pa. Filed Jan. 12, 1952.

LESOFAC

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Claims use since Dec. 26, 1951.

Ser. No. 623,898. Virgil Edgar Meadows, Bronxville, N. Y. Filed Jan. 22, 1952.

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Claims use since Jan. 2, 1952.

Ser. No. 624,085. John Heisele, St. Louis, Mo. Filed Jan. 25, 1952.



The mark consists of the portrait of Max Heisele whose consent has been obtained.
For Preparation for the Treatment of Piles.
Claims use since Dec. 1, 1910.

Ser. No. 625,839. White Laboratories, Inc., Kenilworth, N. J. Filed Mar. 1, 1952.

APPLIDERM

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Claims use since Feb. 14, 1952.

Ser. No. 625,840. White Laboratories, Inc., Kenilworth, N. J. Filed Mar. 1, 1952.

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Ser. No. 625,920. The Rabin Company, Los Angeles, Calif. Filed Mar. 4, 1952.

VYTERALS

For Vitamin Preparations in Capsule and Tablet Form.
Claims use since Feb. 1, 1951.

Ser. No. 626,094. The S. E. Massengill Company, Bristol, Tenn. Filed Mar. 7, 1952.

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Claims use since Mar. 1, 1952.

Ser. No. 627,972. Schenley Laboratories, Inc., New York, N. Y. Filed Apr. 11, 1952.

SYNPLAS

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Claims use since Feb. 25, 1952.

Ser. No. 628,085. Allied Products, Inglewood, Calif. Filed Apr. 15, 1952.

PILEODYNE

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Ser. No. 628,468. Chilcott Laboratories, Inc., Morris Plains, N. J. Filed Apr. 22, 1952.

CL

For Medical Preparations for the Treatment of Hypertension and Angina Pectoris.
Claims use since Oct. 11, 1951.

Ser. No. 628,800. Westminster Laboratories Limited, London, England. Filed Apr. 26, 1952.

SENOKOT

Applicant claims ownership of British Registration No. 639,157, dated May 15, 1947.
For Laxative Preparations.

Ser. No. 631,202. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Filed June 14, 1952.

STRAMINOL

Applicant claims ownership of Swiss Registration No. 137,301, dated Mar. 24, 1951.
For Pharmaceutical Preparations for Use as Disinfectants.

Ser. No. 633,646. American Cyanamid Company, New York, N. Y. Filed Aug. 9, 1952.

FALVIN

For Antimalarial Preparation.
Claims use since July 24, 1952.

CLASS 19

VEHICLES

Ser. No. 609,804. La Motoconfort, Pantin (Seine), France. Filed Feb. 8, 1951.

MOTOCONFORT

Applicant claims ownership of French Registration No. 308,087, dated Nov. 10, 1939.
For Motorcycles.

Ser. No. 611,305. Piasecki Helicopter Corporation, Morton, Pa. Filed Mar. 14, 1951. (Sec. 2f—Additional evidence.)

Piasecki

For Aircraft of the Helicopter Type.
Claims use since July 1943.

Ser. No. 611,405. Chrysler Corporation, Highland Park, Mich. Filed Mar. 16, 1951. (Sec. 2f.)

FARGO

Applicant claims ownership of Registration No. 411,653.
For Automobiles and Their Structural Parts.
Claims use since Mar. 30, 1928.

Ser. No. 617,068. Louis B. York, doing business under the name of Admiral Fabrics Co., New York, N. Y. Filed July 27, 1951.

Opticleer

For Plastic Sun Shades and Visors To Be Attached to the Windshield of Automobiles.
Claims use since June 8, 1950.

Ser. No. 619,296. Garcia International Corporation, Chicago, Ill. Filed Sept. 27, 1951.

GILMAR

For Mufflers, Tail Pipes, Exhaust Pipes, Shackle Sets, Universal Joints, Leaf Springs, Upper Support Pivot Kits, Upper Control Arm Assemblies, Coil Springs, Lower Inner Shafts, Steering Knuckle Supports, Lower Support Pivots, Lower Control Arm Assemblies, Coil Spring Spacers, Upper Support Pivot Nuts, Idler Arm Supports, Intermediate Steering Arm Pivot Bearings, Knee Action Arms and Brackets, Idler Arm Bushings, Tie Rod Ends, Drag Links, and Drag Link Ends.
Claims use since Jan. 5, 1949.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 542,418. Bendix Aviation Corporation, Elmira Heights, N. Y. Filed Sept. 23, 1947. (Classified in Class 23.)
Applicant claims ownership of Registrations Nos. 100,783 and 425,926.
See this serial number in Class 23 for goods and mark.
Claims use since Nov. 30, 1908.

Ser. No. 559,152. Guardian Electric Manufacturing Co., Chicago, Ill. Filed June 14, 1948.

GUARDIAN

For Electromagnets, Relays, Solenoids and Switches, Which Are Generally Referred to in the Trade as Unitary Electrical Components, Adapted for Various Uses in Industry.
Claims use since May 9, 1929.

Ser. No. 562,682. Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Filed Aug. 3, 1948.



For Electrical Apparatus—Namely, Plugs and Receptacles, Knife Switches, Circuit Breakers; Line Material—Namely, Strain Insulators, Third-Rail Insulators, Overhead Conductor Bars, Quick-Break Switches; Copper Castings for High Electrical Conductivity—Namely, Ground Clamps, Rail Clamps, Alligator-Jaw Testing Clamps, Heavy-Duty Switch Parts, Heavy-Duty Connector Contacts; Fabricated Copper Shapes—Namely, Copper Stripper Blank and Suspension-Bar Assemblies, Anode and Cathode Suspension Bars With Forged Ends for Use in the Refining of Metal and Electroplating; Electric Welding Accessories—Namely, Carbon Arc Torches, Electrode Holders, Electrical Connectors, Plug and Receptacle Connectors, Air-Vane Relays, and Electric Cable Connectors; and Moulded Electrical Insulation for Use With and in the Manufacture of the Aforementioned Electrical Equipment and Appliances.
Claims use since Apr. 7, 1904.

Ser. No. 562,683. Albert & J. M. Anderson Manufacturing Company, Boston, Mass. Filed Aug. 3, 1948. (Sec. 2f.)

ANDERSON

For Electrical Apparatus—Namely, Plugs and Receptacles, Knife Switches, Circuit Breakers; Line Material—Namely, Strain Insulators, Third-Rail Insulators, Overhead Conductor Bars, Quick-Break Switches; Copper Castings for High Electrical Conductivity—Namely, Ground Clamps, Rail Clamps, Alligator-Jaw Testing Clamps, Heavy-Duty Switch Parts, Heavy-Duty Connector Contacts; Fabricated Copper Shapes—Namely, Copper Stripper Blank and Suspension-Bar Assemblies, Anode and Cathode Suspension Bars With Forged Ends for Use in the Refining of Metal and Electroplating; Electric Welding Accessories—Namely, Carbon Arc Torches, Electrode Holders, Electrical Connectors, Plug and Receptacle Connectors, Air-Vane Relays, and Electric Cable Connectors, and Moulded Insulation for Use With and in the Manufacture of the Aforementioned Electrical Equipment and Appliances.
Claims use since Apr. 7, 1904.

Ser. No. 574,445. The McGraw Electric Company, Elgin, Ill., doing business as Bussmann Manufacturing Company, St. Louis, Mo. Filed Feb. 24, 1949. (Sec. 2f—Additional evidence.)

BUSS

Applicant claims ownership of Registration No. 135,207.
For Electric Fuses, Fuse Holders, Fuse Wire, and Protectors for Electric Circuits That Include Fuse Links and Thermal Cut-Outs and That Respond to Heavy Overloads or Short Circuits To Open the Circuit.
Claims use since Sept. 15, 1918.

Ser. No. 581,871. Farmers Engineering & Manufacturing Co., Pittsburgh, Pa. Filed July 13, 1949. (Sec. 2f—Additional evidence.)

TROLLEYPHONE

For Telephone Apparatus of the Modulated Carrier Wave Type.
Claims use since Sept. 14, 1946.

Ser. No. 608,776. Williams Manufacturing Company, Chicago, Ill. Filed Jan. 13, 1951.

MUSIC MITE

The word "Music" is disclaimed.
For Coin-Controlled Electrically Operated Automatic Phonograph Apparatus.
Claims use since Sept. 11, 1950.

Ser. No. 610,591. Solsound Industries, Inc., doing business as Electronic Engineering Co., Akron, Ohio. Filed Feb. 27, 1951.

INDUSTRAVOX

For Units for Local, Voice-Communicating, Electrically Operated, Inter-Communication Systems—Namely, Microphone Units, Loudspeaker Units, Combination Microphone and Loudspeaker Units, Control Amplifier Units, and Junction Boxes.
Claims use since November 1950.

Ser. No. 610,592. Solsound Industries, Inc., doing business as Electronic Engineering Co., Akron, Ohio. Filed Feb. 27, 1951.

"VOICE OF INDUSTRY"

The word "Voice" is disclaimed.
For Units for Local, Voice-Communicating, Electronically Operated, Inter-Communication Systems—Namely, Microphone Units, Loudspeaker Units, Combination Microphone and Loudspeaker Units, Control Amplifier Units, and Junction Boxes.
Claims use since July 1, 1947.

Ser. No. 611,982. Union Carbide and Carbon Corporation, New York, N. Y. Filed Mar. 29, 1951.



For Graphite Electrodes and Graphite Nipples for Joining Such Electrodes.
Claims use since on or about Aug. 25, 1950.

Ser. No. 612,726. The Brush Development Company, Cleveland, Ohio. Filed Apr. 17, 1951.

UNIVERSAL

For Switch Mechanism for Sequentially Connecting Each of a Plurality of Electric Gaging Devices to an Amplifier Mechanism.
Claims use since Oct. 18, 1950.

Ser. No. 613,727. National Electric Products Corporation, Pittsburgh, Pa. Filed May 10, 1951. (Sec. 2f.)

LOOMWIRE

Applicant claims ownership of Registrations Nos. 229,349 and 102,241.
For Cables With Nonmetallic Protective Covering for Concealed and Open Electric Wiring.
Claims use since Feb. 23, 1926.

Ser. No. 615,184. Keystone Scent-Conditioner Corp., Philadelphia, Pa. Filed June 14, 1951.



For Electrically Operated Deodorizer Containing a Deodorant.
Claims use since 1949.

Ser. No. 617,939. Advance Machine Company, Minneapolis, Minn. Filed Aug. 22, 1951.

"Speedboy"

For Electric Floor Polishing Machines.
Claims use since Sept. 22, 1950.

Ser. No. 618,190. Edward Dornbush, Miami, Fla. Filed Aug. 17, 1951.

'Barbegriddle'

For Electrical Barbecue Roaster With Two Skewers (Spits).
Claims use since Nov. 1, 1949.

Ser. No. 618,191. Edward Dornbush, Miami, Fla. Filed Aug. 17, 1951.

"Roastisserie"

For Electrical Barbecue Roaster With Four Skewers (Spits).
Claims use since Nov. 1, 1949.

Ser. No. 620,081. Astron Corporation, East Newark, N. J. Filed Oct. 17, 1951.

METALITE

For Metallized-Paper Capacitors.
Claims use since October 1949.

Ser. No. 621,339. The Standard Electric Time Company, Springfield, Mass. Filed Nov. 16, 1951.

flexlab

For Electric Switchboard Panels and Motor-Generator Sets.
Claims use since Oct. 13, 1950.

Ser. No. 621,872. Diehl Manufacturing Company, Bridgewater Township, Somerset County, N. J., and New York, N. Y. Filed Nov. 30, 1951. (Sec. 2f.)

DIEHL

Applicant claims ownership of Registration No. 49,433.
For Electric Motors, Electric Generators, Electric Fans,

Electric Air Circulators, Electric Motor Controllers—Namely, Electric Switches, Reactors and Rheostats, Electric Transmitters of the Electro-Mechanical Drive Type, Electric Transformers, Electric Lighting Switches, Electric Switch Boxes, Electric Capacitor Boxes, Electric Vacuum Cleaners and Parts Thereof, Electric Lamp Sockets, Electric Lighting Fixtures, and Electric Hand Drills.
Claims use since 1896.

Ser. No. 622,529. Falcon Plastic Products Mfg. Co., Culver City, Calif. Filed Dec. 15, 1951.

Flicko

The drawing is lined for brown.
For Light Switch Plates.
Claims use since on or about Sept. 5, 1951.

Ser. No. 623,130. Ditto, Incorporated, Chicago, Ill. Filed Jan. 3, 1952.

DITTOLITH

Applicant claims ownership of Registrations Nos. 127,223, 127,224, and others.
For Electrically Operated Duplicating Machines.
Claims use since Sept. 21, 1951.

Ser. No. 623,632. Audio Products Corporation, Los Angeles, Calif. Filed Jan. 12, 1952.

PAKAP

For Miniature Replaceable Self-Contained Electronic Circuits, Comprising Complete Functional Circuit Units of Various Types.
Claims use since Sept. 18, 1951.

Ser. No. 624,170. Ward Leonard Electric Company, Mount Vernon, N. Y. Filed Jan. 26, 1952.

RIBFLEX

For Electric Resistors.
Claims use since May 1943.

Ser. No. 624,272. Arne B. Johnson, doing business under the style name of Johnson Radio & Machine Co., Madison, Wis. Filed Jan. 30, 1952.



The word "Johnson" is disclaimed.
For Electrical Bottle Warmers.
Claims use since Jan. 9, 1952.

Ser. No. 624,284. Miles Reproducer Co., New York, N. Y. Filed Jan. 30, 1952.

"WALKIE-RECORDALL"

The word "Recordall" is disclaimed.
For Electrical Sound Recording and Reproducing Machines and Parts Thereof.
Claims use since August 1949.

Ser. No. 624,303. Schramm Inc., West Chester, Pa. Filed Jan. 30, 1952. (Sec. 2f.)

SCHRAMM

Applicant claims ownership of Registration No. 279,188.
For Engine Driven Electrical Welders and Engine Driven Electrical Generators.
Claims use since January 1900.

Ser. No. 624,622. Theodore Bargman, Detroit, Mich. Filed Feb. 1, 1952.

"Glasplas"

For Electric Lamp Shade Made of Glass and Plastic Materials.
Claims use since Aug. 15, 1951.

Ser. No. 624,799. Seidelhuber Iron and Bronze Works, Incorporated, Seattle, Wash. Filed Feb. 11, 1952.

IMPERIAL

For Electrically Heated Water Tanks.
Claims use since Feb. 1, 1947.

Ser. No. 625,020. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Feb. 15, 1952.

SCOTCHFIL

Applicant claims ownership of Registrations Nos. 521,969 and 541,566.
For Putty-Like Electrical Insulating Compound.
Claims use since July 1951.

Ser. No. 625,064. Exterminator Corporation of America, Philadelphia, Pa. Filed Feb. 16, 1952.

MORTRON

For Electric Vaporizer.
Claims use since Feb. 13, 1952.

Ser. No. 625,122. Permoflux Corporation, Chicago, Ill. Filed Feb. 18, 1952.

ROYAL

For Permanent Magnet Dynamic Loudspeakers, Baffles, and Housings Therefor and Parts Thereof.
Claims use since Dec. 12, 1949.

Ser. No. 625,305. Paul E. Tegarden, Indianapolis, Ind. Filed Feb. 20, 1952.

COURTESY

For Silent, Electrical, Vehicular Passing Signal Used To Designate a Safe or Unsafe Passing Time.
Claims use since Jan. 15, 1952.

Ser. No. 625,386. Aldens, Inc., Chicago, Ill. Filed Feb. 23, 1952. (Sec. 2f.)

Aldens

For Electrical Appliances—Namely, Radio Receiving Sets; Television Receiving Sets; Combination Radio Receivers and Phonographs; Circulating Fans; Floor, Table, Bed, Desk and Pin-up Lamps; Waffle Irons and Grills; Toasters; Food and Beverage Liquidizers and Blenders; Food and Beverage Mixers; Corn Poppers; Percolators and Coffee Makers; Flat Irons; Heating Pads; Vacuum Cleaners; Deep Fat Fryers; Roasters; Hot Plates; Ranges, Stoves, Space Heaters, and Ovens; Storage and Dry Cell Batteries; Spark Plugs; Automobile Emergency Trouble Lights; Electrical Automobile Heaters; Automobile Radio Receivers; and Electrical Soldering Irons.
Claims use since July 1925.

Ser. No. 625,858. Harold A. Mears, doing business as Dual Electric Triple Alarm Co., Knoxville, Tenn. Filed Mar. 3, 1952.



For Electrical Burglar Alarm Systems and Parts Thereof—Namely, Control Boxes, Switches, Sirens, Gongs, and Lamps.
Claims use since 1938.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 627,463. Stanley S. Sayres, doing business as Seattle Speed Boat Co., Seattle, Wash. Filed Apr. 2, 1952.

Slo-mo-shun

For Toy Model Boat.
Claims use since on or about Mar. 21, 1952.

Ser. No. 627,636. National Mask and Puppet Corporation, Brooklyn, N. Y. Filed Apr. 3, 1952.

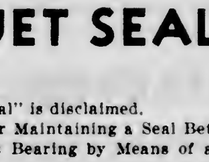
CUTIE-PIE

For Dolls.
Claims use since Feb. 15, 1952.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 542,418. Bendix Aviation Corporation, Elmira Heights, N. Y. Filed Sept. 23, 1947.



Applicant claims ownership of Registrations Nos. 100,783 and 425,926.
For Group A: Starter Drives and Components Thereof for Electrical Automotive Engine Starters, Fluid Controls for Starters for Internal Combustion Engines, Automatic Starters for Internal Combustion Engines, Dyeing Machines, Starters for Aviation Engines, Superchargers for Aviation Engines, Fuel Pumps, Outboard Motor Starters, Fuel Injectors for Engines, Bobbin Holders for Textile Machinery, Mechanical Yarn Cleaners for Textile Machinery; Group B: Engine Starting Mechanisms of the Inertia, Direct Cranking, Manual, Fluid Pressure, and Cartridge Types, Air Pumps, Vacuum Pumps, Engine Driven Pumps, Engine Driven Hydraulic Pumps, Motor Driven Hydraulic Pumps, Hand Hydraulic Pumps, Hydraulic Remote Control Units Comprising Actuators and Slave Parts for Aircraft, Oil Separators for Use in Removing Oil From Air Pressure Lines in Aircraft, Automatic Throttle and Fuel Mixture Controls for Engines, Propeller Pitch Governor Controls, Auxiliary Engines, Auxiliary Power Supply Systems Comprising Engines, Generators, and Pumps, Accessory Gear Boxes, Gear Reduction Units, Superchargers, Automatic Supercharger Regulators, Mechanism for the Operation of Inflatable Elements Useful in the Prevention of the Accumulation of Ice on or the Removal of Ice From Exposed Surfaces of Aircraft, Said Operating Mechanism Comprising Air Pumps, Oil Separators, Distributing Valves, Control Valves, Air Valves, and Pressure Relief Valves.
Claims use since Nov. 30, 1908.

Ser. No. 574,154. Monogram Manufacturing Co., Los Angeles, and West Los Angeles, Calif., assignor to Houston-Fearless Corporation, Los Angeles, Calif., a corporation of California. Filed Feb. 19, 1949.

JET SEAL

The word "Seal" is disclaimed.
For Device for Maintaining a Seal Between a Rotatable Member and Its Bearing by Means of a Power Operated Liquid Impeller.
Claims use since Apr. 5, 1947.

Ser. No. 589,117. Samuel J. Shimer & Sons, Inc., Milton, Pa. Filed Dec. 9, 1949. (Sec. 2f as to "Shimer.")



The words "The" and "Cutter Head" and the representation of the goods are disclaimed. Applicant claims ownership of Registration No. 45,935.

For Cutter Heads and Milling Cutter Knives.

Claims use since the latter part of 1879.

Ser. No. 599,818. Drill Master Supply Co., Evansville, Ind. Filed June 27, 1950.



The words "Drill," "Mine," "And," "Mill," "Supplies," and "Service" and the representation of the goods are disclaimed. The drawing is lined for shading only.

For Compressed Air Systems, as Unitary Apparatus, Consisting of Compressors, Valves, Pipes, and Connections.

Claims use since Aug. 1, 1949.

Ser. No. 600,379. Byron Jackson Co., Vernon, Calif. Filed July 8, 1950.



Applicant claims ownership of Registrations Nos. 272,853 and 291,014.

For Pumps—Namely, Centrifugal, Turbine, and Rotary Impeller Pumps, Shaft Bearings, and Parts Thereof.

Claims use since Mar. 3, 1950.

Ser. No. 607,710. Mathews Conveyer Company, Ellwood City, Pa. Filed Dec. 15, 1950. (Sec. 2f.)

MATHEWS

For Wheel Conveyers, Chutes, Roller Conveyers, Belt Conveyers, Chain Conveyers, Ball Transfers, Vertical Reciprocating Hoists, and Reciprocating Beam Conveyers.

Claims use since 1907.

Ser. No. 609,269. Addressograph-Multigraph Corporation, Cleveland, Ohio. Filed Jan. 26, 1951. (Sec. 2f.)

ELECTROcote

Applicant claims ownership of Registration No. 283,104.

For Frames for Holding Printing Plates for Use in Printing Machines.

Claims use since Dec. 9, 1930.

Ser. No. 610,349. T. B. Wood's Sons Company, Chambersburg, Pa. Filed Feb. 20, 1951. (Sec. 2f.)



For Power Transmission Machinery.

Claims use since Sept. 1, 1939.

Ser. No. 612,193. Aircraft-Marine Products Inc., Harrisburg, Pa. Filed Apr. 4, 1951.

HANDY DUTCHMAN

The word "Handy" is disclaimed.

For Combination Hand Tool for Cutting Wire, Stripping Insulation From Insulated Wire, Measuring Wire Gauge, Crimping Electrical Terminals, and Shearing Threaded Bolts.

Claims use since Jan. 17, 1951.

Ser. No. 612,195. Aircraft-Marine Products Inc., Harrisburg, Pa. Filed Apr. 4, 1951.



For Combination Hand Tool for Cutting Wire, Stripping Insulation From Insulated Wire, Measuring Wire Gauge, Crimping Electrical Terminals, and Shearing Threaded Bolts.

Claims use since July 29, 1949.

Ser. No. 614,214. The Oliver Corporation, Chicago, Ill. Filed May 22, 1951. (Sec. 2f as to "Oliver.")



For Walking Plows, Two-Way Tractor Sulky Plows; Tractor Subsoil Plows; Tractor Brush Sulky Plows; Tractor Moldboard Plows; Disc Plows; Overhead Beam Tractor Disc Plows; One-Way Tractor Disc Plows; Mounted Sulky Plows; Disc Harrows; Spring Tooth Harrows; Spike Tooth Harrows; Soil Pulverizers; Stalk Cutters; Rotary Hoes; Weeders; Listers; Field Cultivators; Side Delivery Rakes; Self-Dump Rakes; Vine Turners for Clearing the Path for Implements and Tractors; Potato Diggers; Horse and Tractor Drawn Cultivators; Tractor Mounted Cultivators; Tractor Mounted Planters; Rotary Hoe Attachments for Tractor Mounted Cultivators; Planting Attachments for Tractor Mounted Cultivators; Weeder Attachments for Tractor Mounted Cultivators; Fertilizer and Side Dressing Attachments for Tractor Mounted Cultivators; Quick-Detachable Planter Attachments for Tractor Mounted Cultivators; Wheel Track Eradicators; Universal Tool Bars for Carrying a Plurality and Variety of Implements Usually Attached to or Drawn by Tractors; Rear Suspension Listers and Middle-Busters; Pull-Type Planters and Drills; Tractor Drawn Planters; Fertilizer Disc Drills; Plain Disc Grain Drills; Press Drills; Furrow Drills; Semi-Deep Furrow Drills; Beet and Bean Drills; Seeder Attachments; Manure Spreaders; Lime Sowers; Pull-Type Check-Row Planters; Tractor Mounted Check-Row Planters; Beet and Bean Cultivators; Beet Lifters; Cotton Harvesters; Industrial and Agricultural Crawler Tractors; Motor Grader Transmissions; General Purpose Wheel-Type Tractors; Agricultural-Type Wheel Tractors; Orchard-Type Wheel Tractors; Industrial-Type Wheel Tractors; Pull-Type Combine Harvesters; Self-Propelled Combine Harvesters; Pull-Type Corn Picker Huskers; Pull-Type Corn Picker Snappers; Tractor-Mounted Corn Picker Huskers; Windrowers; Threshers; Pick-up Balers and Stationary Balers; Automatic Wire Tie Pick-up Balers, Tractor-Drawn Mowers; Hay and Crop Loaders; Bulldozers; Hydraulic Lifts for Tractor-Drawn and Tractor Mounted Implements; Gasoline and Diesel Engine Power Units and Parts Thereof.

Claims use since December 1944 on the mark as shown; and since 1872 on the word "Oliver."

Ser. No. 617,182. Beaumont Birch Company, Philadelphia, Pa. Filed Aug. 1, 1951.

"DURA-TRED"

The word "Tred" is disclaimed.

For Conveyor Chains and Conveyor Chain Links.

Claims use since October 1950.

Ser. No. 618,384. The Acme Shear Company, Bridgeport, Conn. Filed Sept. 5, 1951.

PYRO-CLAD

For Scissors and Shears of General Household Utility Type.

Claims use since Aug. 31, 1951.

Ser. No. 620,457. The Bowdil Company, Canton, Ohio. Filed Oct. 25, 1951.



The trade-mark consists in a longitudinal band along the meeting of the side planes of both longitudinal sides of the tool, and is applied there by forming, rolling, milling, abrading, or otherwise indenting the mark along the said meeting of the side planes of the tool in the process of manufacturing the tool, the representation of said tool forming no part of applicant's mark. Applicant claims ownership of Registration No. 338,952.

For Replaceable Cutting Tool Bits Adapted To Be Utilized in Combination With Mining Machine Chain Link.

Claims use since on or about May 4, 1936.

Ser. No. 620,857. Petroleum Heat and Power Company, Stamford, Conn., assignor to Iron Fireman Manufacturing Company, Cleveland, Ohio, a corporation of Oregon. Filed Nov. 3, 1951.

PETRO

Applicant claims ownership of Registrations Nos. 214,358, 231,207, and others.

For Liquid Fuel Pumps and Water Circulating Pumps.

Claims use since on or about Mar. 11, 1936.

Ser. No. 621,084. James Neill & Co. (Sheffield) Limited, Sheffield, England. Filed Nov. 9, 1951.

ECLIPSE

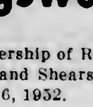
Applicant claims ownership of Registrations Nos. 93,893 and 333,285.

For Tool Bits, Angle Plates, V-Blocks, Hack-Saw Frames, Fret Saws, Coping Saws, Pin Chucks, Pin Vices, Automatic Centre-Punches, Scribers, Tap Wrenches, Screwdrivers, and Instrument Vices.

Claims use since 1909; and since 1934 in commerce between the United States and Great Britain.

Ser. No. 624,052. Schmetz Needle Corporation, New York, N. Y. Filed Jan. 24, 1952.

Canu



Applicant claims ownership of Registration No. 561,709.

For Sewing Machine Needles.

Claims use since Jan. 9, 1951.

Ser. No. 626,887. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Mar. 22, 1952.

Favorite

Applicant claims ownership of Registration No. 178,456.

For Hand Operated Compression Sprayers Used To Atomize Fly Oils, Soluble Insecticides, Fungicides, Weed Killers; Also Used To Spray Deodorants, and Light to Heavy Sediment-Free Liquid.

Claims use since Jan. 1, 1915.

Ser. No. 626,969. Thomas Flexible Coupling Company, Warren, Pa. Filed Mar. 24, 1952. (Sec. 2f.)



Applicant claims ownership of Registration No. 299,599.

For Flexible Machinery Couplings.

Claims use since September 1938 as to the mark shown; and since 1919 as to the mark "Thomas."

Ser. No. 627,014. Simonds Saw and Steel Company, Fitchburg, Mass. Filed Mar. 25, 1952.

Tungsweld

Applicant claims ownership of Registration No. 179,372.

For Machine Knives and Shears, and Saw Bits.

Claims use since Feb. 6, 1952.

Ser. No. 627,097. Joseph Szydlowski, Turbomeca Bordes, France. Filed Mar. 26, 1952.

MARBORE

Priority is claimed under Sec. 44(d). French application filed Jan. 21, 1952; Registration No. 969, dated Jan. 21, 1952.
For Internal Combustion Engines and Parts Thereof.

Ser. No. 627,098. Joseph Szydlowski, Turbomeca Bordes, France. Filed Mar. 26, 1952.

OREDON

Priority is claimed under Sec. 44(d). French application filed Jan. 21, 1952; Registration No. 962, dated Jan. 21, 1952.
For Internal Combustion Engines and Parts Thereof.

Ser. No. 627,099. Joseph Szydlowski, Turbomeca Bordes, France. Filed Mar. 26, 1952.

PALOUSTE

Priority is claimed under Sec. 44(d). French application filed Jan. 21, 1952; Registration No. 967, dated Jan. 21, 1952.
For Internal Combustion Engines and Parts Thereof.

Ser. No. 627,131. Holman Brothers Limited, Camborne, England. Filed Mar. 27, 1952.

DRYDUCTOR

Applicant claims ownership of British Registrations Nos. 695,372 and 695,373, dated Jan. 17, 1951.
For Rock Drills.

Ser. No. 628,428. Republic Gear Company, Detroit, Mich. Filed Apr. 21, 1952. (Sec. 2f.)

ALMETAL

For Universal Joints.
Claims use since Oct. 1, 1925.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 587,911. Porto-Clinic Instruments, Inc., New York, N. Y. Filed Nov. 16, 1949.

PORTO-CLINIC

For Portable Apparatus for Testing Automotive Operators for Visual Acuity, Color Perception, Depth Perception, Field of Vision, and Reaction Time.
Claims use since Oct. 1, 1948.

Ser. No. 591,210. Telecomputing Corporation, Burbank, Calif. Filed Jan. 20, 1950.

TELEREADER

For Electric Apparatus Utilizing a Recording and Projecting System, Including a Ground Glass Screen Upon Which Is Shown Record Data, Used To Facilitate the Rapid Transfer of Data From Film, Oscillograms, Graphic, or Other Records to Numeric Form in Punched Cards so That Further Analysis by Automatic Computing Machines or Simple Visual Observation of Tabulated Results May Be Performed.
Claims use since June 27, 1949.

Ser. No. 612,084. Precision-Cosmet Company, Inc., Minneapolis, Minn. Filed Mar. 31, 1951.

COSMA-TRIM

The word "Trim" is disclaimed.
For Ornamental Trim Applied to Rimless Mountings or Frames for Eyeglasses.
Claims use since Jan. 29, 1951.

Ser. No. 616,285. General Aniline & Film Corporation, New York, N. Y. Filed July 10, 1951. (Sec. 2f—Additional evidence.)

DRYPHOTO

For Light-Sensitive Diazotype Papers, Cloths, Films, and Light-Sensitive Copying and Photographic Papers.
Claims use since Sept. 28, 1944.

Ser. No. 616,324. Keuffel & Esser Company, Hoboken, N. J. Filed July 11, 1951.

PHOENIX

For Measuring Tapes.
Claims use since May 1946.

Ser. No. 619,403. Overseas Finance & Trading Company Inc., San Francisco, Calif. Filed Sept. 29, 1951.

Mikron

For Binoculars.
Claims use since Mar. 1, 1949.

Ser. No. 619,404. Overseas Finance & Trading Company Inc., San Francisco, Calif. Filed Sept. 29, 1951.

NIKKOR

For Photographic Lenses.
Claims use since May 7, 1949.

Ser. No. 619,405. Overseas Finance & Trading Company Inc., San Francisco, Calif. Filed Sept. 29, 1951.

Nikon

For Cameras.
Claims use since May 7, 1949.

Ser. No. 619,924. Da-Lite Screen Company, Inc., Chicago, Ill. Filed Oct. 12, 1951.

Picture King

The term "Picture" is disclaimed.
For Motion Picture Screens.
Claims use since Sept. 1, 1948.

Ser. No. 631,455. McCall Corporation, New York, N. Y. Filed June 26, 1952. (Sec. 2f.)

McCall's

Applicant claims ownership of Registrations Nos. 226,481 and 555,927.
For Printed and Transfer Patterns for Garments, Needlework, and Novelties.
Claims use since Jan. 1, 1870.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 613,756. Michael M. Arrowitz, trading and doing business under the name of Pittshire, Pittsfield, Mass. Filed May 11, 1951.

Pittshire

For Beads, Chains, Crucifix Centers, Jump Rings, Eye Pins, and Similar Parts, All Sold in Bulk to Customers for Assembly Into Finished Articles of a Religious Nature.
Claims use since Jan. 1, 1946.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 611,632. Edward H. Barker, doing business under the name Kitchen Queen Dishwasher Company, Los Angeles, Calif. Filed Mar. 22, 1951.

KITCHEN QUEEN

The word "Kitchen" is disclaimed.
For Non-Mechanical Dish Washing Device Comprised of Hose, Brush Mount, and Brush, To Be Attached to Kitchen Faucet and Operated by Water Pressure.
Claims use since Dec. 15, 1950.

Ser. No. 617,590. Star Brush Manufacturing Co., Inc., Boston, Mass. Filed Aug. 11, 1951.

ROTO-PAINTER

The word "Painter" is disclaimed.
For Paint Application Roller.
Claims use since Mar. 1, 1950.

Ser. No. 626,709. I. Sekine Company, Inc., New York, N. Y. Filed Mar. 19, 1952.

RAYDENT

For Toothbrushes.
Claims use since Jan. 16, 1952.

Ser. No. 628,287. Modglin Company, Inc., Los Angeles, Calif. Filed Apr. 18, 1952.

Perma-kleen

The word "Kleen" is disclaimed.
For Mop Heads of Absorbent Material Adapted for Attachment to Mop Handles for Use in Washing Floors and Wet Mopping.
Claims use since Jan. 10, 1952.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 562,384. N. V. Koninklijke Delftsch Aardewerkfabriek "De Porceleyne Fles" voorheen Joost Thooft en Labouchere (N. V. Faienceric Royale de Delft "De Porceleyne Fles," ci-devant Joost Thooft et Labouchere, N. V. Royal Delft Ware Manufactory "De Porceleyne Fles," late Joost Thooft and Labouchere, Konigliche Delfter Faience Fabrik "De Porceleyne Fles," vormals Joost Thooft und Labouchere, Delft, Netherlands. Filed July 28, 1948. (Sec. 2f.)

Delft

Applicant claims ownership of Registration No. 27,287.
For Ceramic Products for Domestic Purposes—Namely, Plates, Dishes, Bakers, Bowls, Jugs, Jars, Pots, Boxes, Cups and Saucers, Tumblers, Noggins; Dinner-, Breakfast-, Coffee-, Tea- and Moccasetx (Services); Milksets, Cream-Sets, Egg-Sets, Table and Kitchen Utensils; Stands for Pots, Pans, Dishes, Glasses, Vases, Trays, and Platters; for Decorative Purposes—Namely, Ornamental Plates and Dishes, Ornamental Flowerpots, Flower Pot Holders, Flower Bowls, Jugs, Vases, Flower Trays, and Flower Stands, Wall Plates; Ornamental Picture Tiles and Tile Pictures, for Religious Purposes—Namely, Collection Plates.
Claims use since April 1898; and first used in commerce between foreign nations and the United States in April 1898.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 574,235. Harry Moll, Denver, Colo. Filed Feb. 21, 1949.

ICE CUBO

The word "Ice" is disclaimed.
For Rubber Ice Molds That Are Used To Make Spherical Ice Balls by Placing a Liquid To Be Frozen Therein, Then Placing the Molds in a Freezing Zone.
Claims use since Oct. 2, 1948.

Ser. No. 617,049. C. A. Norgren Co., Denver, Colo. Filed July 27, 1951. (Sec. 2f.)

Norgren

For Filters for Use in Pneumatic Lubricating Systems for Production Machinery, or the Like.
Claims use since Mar. 1, 1926.

Ser. No. 619,029. The National Filter Media Corporation, New Haven, Conn. Filed Sept. 20, 1951.

VINCEL

For Bags of Woven Filter Cloth Used for Filtering Liquids and Gases.
Claims use since Sept. 7, 1951.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 600,008. The Harvard Manufacturing Company, doing business using the name Harvard of Cleveland, Cleveland, Ohio. Filed June 14, 1950. (Sec. 2f.)

HARVARD

For Bed Frames; Bed Head Boards; Hollywood Bed Frames; Adjustable Width Bed Frames; Bed Support Posts; Bed Reinforcing Means—Namely, Center Supports; Divans; Couches; and Mattress and Bed-Spring Display Stands.
Claims use since Jan. 1, 1935.

Ser. No. 615,138. The Sikes Company, Inc., Buffalo, N. Y. Filed June 13, 1951.

BUTTER SCOTCH

For Bedroom Dressers, Night Stands, Chests in the Nature of Furniture, Mirrors, Vanities, Vanity Benches, Beds, Dining Room Tables, Buffets, China Cabinets, Hutch Cabinets, Servers in the Nature of Furniture, Corner Cabinets, Chairs, and Living Room Tables, Desks, Bench Settees, and Chairs.
Claims use since Aug. 1, 1936.

Ser. No. 617,502. Knoll Associates, Inc., New York, N. Y. Filed Aug. 9, 1951.



For Articles of Furniture—Namely, Tables, Desks, Seats, Chairs, Stools, Couches, Sofas, Beds, Chests, Cabinets, and Trays.
Claims use since July 25, 1951.

Ser. No. 617,766. Natkin & Company, St. Louis, Mo. Filed Aug. 16, 1951.

NAT-FLEX

For Display Benches, Cabinets, Display Counters, Service Benches, and Service Desks.
Claims use since Apr. 15, 1949.

Ser. No. 617,836. Comfort Pillow & Feather Company, Boston, Mass. Filed Aug. 18, 1951.

Comfort

The word "Foam" is disclaimed.
For Pillows.
Claims use since May 5, 1947.

Ser. No. 618,650. P. B. R. Manufacturing Co., Philadelphia, Pa. Filed Sept. 11, 1951.

ALUMAFOLD

For Folding Tables, Folding Chairs, Folding Utility Shelves.
Claims use since Aug. 28, 1951.

Ser. No. 618,764. Societe d'Etudes et de Fabrications d'Articles Modernes d'Organisation (S. E. F. A. M. O.), Les Lilas (Seine), France. Filed Sept. 13, 1951.

SEFAMO

Applicant claims ownership of French Registration No. 373,672, dated Jan. 8, 1947.
For Office Furniture—Namely, Desks, Tables, Chairs, Armchairs, Filing Cabinets, Book-Cases.

Ser. No. 623,934. The Toidey Company, Gertrude A. Muller, Inc., Fort Wayne, Ind. Filed Jan. 16, 1952.

Toideyco

For Infants' Disassembled Furniture Comprising Toilet Seat and Pan and Base for Infants, and Step Ladder for Infants.
Claims use since Nov. 28, 1951.

Ser. No. 624,166. Trade Wind Importing Co., Mount Vernon, N. Y. Filed Jan. 26, 1952.

Trade Wind

For Bamboo Roll-up Blinds for Windows.
Claims use since Jan. 14, 1952.

Ser. No. 625,115. Meier & Pohlmann Furniture Company, St. Louis, Mo. Filed Feb. 18, 1952.

SPICED OAK

The word "Oak" is disclaimed. Applicant claims ownership of Registration No. 534,672.
For Dining and Dinette Tables and Chairs, and Plastic Overlays and Tops for Such Tables.
Claims use since Jan. 7, 1952.

Ser. No. 625,370. C. A. Schofield, doing business under the name and style of C. A. Schofield Co., Philadelphia, Pa. Filed Feb. 21, 1952.

FORMTOP

For Table Tops, Cabinet Tops, and Counter Tops.
Claims use since Feb. 8, 1952.

Ser. No. 625,894. Eclipse Sleep Products Inc., Brooklyn, N. Y. Filed Mar. 4, 1952.

VERTEPEDIC

For Mattresses.
Claims use since Jan. 25, 1952.

Ser. No. 626,054. Salmanson & Co., Inc., New York, N. Y. Filed Mar. 6, 1952.

ARISTO-DIVIDER

Applicant claims ownership of Registrations Nos. 355,888 and 508,701.
For Book Cases, Book Shelves, Chests for Clothing and Linens, Chests of Drawers, Cabinets Having Shelves and/or Drawers and/or Partitioning Walls, Phonograph and Record Cabinets, Wardrobes; Kitchen, Living Room, Bedroom, and Bathroom Chairs; Kitchen Tables, Night Tables, End Tables, Occasional Tables, Dressing Tables, Magazine Racks, Beds, Cribs, Rocking Chairs, and Desks, None of Which Articles Are Upholstered.
Claims use since Jan. 2, 1952.

Ser. No. 626,237. Anne Minor Fowlkes, doing business as Minor Fowlkes, East Orange, N. J. Filed Mar. 11, 1952.

HYST-IT

For Supports Adapted To Be Applied to Beds and the Like To Elevate Bed Covering and Thereby Relieve Pressure Thereof From the Bed Occupant.
Claims use since February 1952.

Ser. No. 626,937. The Englander Company, Inc., Chicago, Ill. Filed Mar. 24, 1952.



For Studio Couches, Studio Beds, Sofa Beds and Convertible Couches, Mattresses, and Box Springs.
Claims use since Jan. 7, 1952.

Ser. No. 633,257. Corning Glass Works, Corning, N. Y. Filed July 30, 1952.

Steuben

Applicant claims ownership of Registration No. 132,339.
For Articles of Glass—Namely, Book-Ends.
Claims use since on or about Jan. 1, 1904.

Ser. No. 633,258. Corning Glass Works, Corning, N. Y. Filed July 30, 1952. (Sec. 2f.)

STEUBEN

Applicant claims ownership of Registration No. 132,339.
For Book-Ends.
Claims use since on or about Jan. 1, 1904.

CLASS 33

GLASSWARE

Ser. No. 624,802. Aktiebolaget Orrefors Glasbruk, Orrefors, Sweden. Filed Feb. 12, 1952. (Sec. 2f.)

ORREFORS

Applicant claims ownership of Registrations Nos. 398,943, 426,200, and 551,786.
For Flat Glass, Plate Glass, Sheet Glass, Glass Tubes and Rods, Glass Table Ware, Glass Jars, Glass Bottles, Glass Vases, Glass Barware, Glass Console Sets, Glass Flasks, and Double Corrugated Glass.
Claims use since Nov. 1, 1916; and first used in commerce between foreign nations and the United States on Apr. 1, 1931.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 591,303. Leitner Equipment Company, Chicago, Ill. Filed Jan. 23, 1950.

BU-TILITY

For Food and Beverage Service Equipment Built in Multiple Sectional Units and Adapted for Assembly Into a Complete Structure for the Purpose of Preparing and Serving Foods and Beverages—Namely, Steam Tables and Gas Cooking Ranges.
Claims use since Aug. 15, 1949.

Ser. No. 596,004. Affiliated Gas Equipment, Inc., Cleveland, Ohio. Filed Apr. 20, 1950.

AFFILIATED GAS EQUIPMENT, INC. a.g.e.

The words "Gas Equipment" are disclaimed.

For Boilers, Furnaces, Air Conditioners, Heaters, Water Heaters, Dryers Based Upon Application of Heat, Burners, Fuel Entrainment Devices, Ignition and Pilot Devices for Gas Heating Equipment, Blowers, Combustion Heaters and Coolers.

Claims use since August 1949.

Ser. No. 600,430. F. B. Gardner Co., Inc., Los Angeles, Calif. Filed July 10, 1950.

GARCO LOS ANGELES

The words "Trade Mark" and "Los Angeles" are disclaimed.

For Louver Dampers, Right Angle Dampers, Round Dampers, Opposed Action Dampers, Automatic Dampers, Damper Quadrant Regulators, Damper Quadrants, Louvers for Air Conditioning Units, Air Conditioning Units for Cleaning and Humidifying Air, Grilles for Air Conditioning Units.

Claims use since May 10, 1950.

Ser. No. 600,431. General Controls Co., Glendale, Calif. Filed July 10, 1950.

GC

For Controller for Adjusting the Damper of a Gas Burning Furnace, Said Controller Including a Lever Adapted To Be Coupled to the Damper, and a Diaphragm Operating the Lever, Said Diaphragm Being Movable by the Exertion of Fuel Gas Pressure; and Pilot Burners.

Claims use since June 1931.

Ser. No. 610,334. Ozark-Mahoning Company, Tulsa, Okla. Filed Feb. 20, 1951.

CHEMICALS OZARK MAHONING

The words "Chemicals" and "Mineral Products" are disclaimed. Applicant claims ownership of Registration No. 537,238.

For Submerged Combustion Burners.

Claims use since June 21, 1948.

Ser. No. 618,716. Smith Bros. & Hughes, San Diego, Calif. Filed Sept. 12, 1951.

PACIFIC

For Welding Tips and Inserts.

Claims use since June 15, 1950.

Ser. No. 623,312. Michigan Oven Company, Detroit, Mich. Filed Jan. 8, 1952.

MOCO

The words "Michigan Oven Company, Detroit, Michigan" are disclaimed. The drawing is lined for shading.

For Insulated Ovens Designed To Bake, Cure, Dry, or Heat Treat Industrial Commodities.

Claims use since Feb. 21, 1949.

Ser. No. 628,127. Rodney Hunt Machine Co., Orange, Mass. Filed Apr. 15, 1952.

RODNEY HUNT

"Rodney Hunt" is the name of one of the original owners of the business who died in 1889, and is not the name of a particular living individual. Applicant claims ownership of Registration No. 112,442.

For Evaporators.

Claims use since Feb. 18, 1952.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 583,545. New Holland Machine Company, New Holland, Pa. Filed Aug. 16, 1949. (Sec. 2f.)

NEW HOLLAND

The trade-mark consists of the letters "N" and "H" arranged in a circle to constitute a symbol displayed at each end of the words "New Holland." The symbols and the words "New Holland" are printed or stenciled in green as represented by the lining which appears on the drawing. Applicant claims ownership of Registrations Nos. 409,016 and 409,512.

For Belting for Transmitting Driving Forces From a Driving Member to a Driven Member.

Claims use since May 15, 1949, as to the mark shown; since Jan. 1, 1942, as to the letters "N" and "H" arranged in a circle; and since Dec. 30, 1943, as to "N" and "H" associated with the words "New Holland" arranged in a circle.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 524,964. Electric & Musical Industries Limited, Hayes, Middlesex, England. Original filed, act of 1905, June 27, 1947; amended to application under act of 1946, Principal Register, July 10, 1950.

Applicant claims ownership of English Registration No. B 644,561, dated Feb. 6, 1946.

For Phonographic Styluses.

Ser. No. 603,066. W. W. Kimball Company, Chicago, Ill. Filed Sept. 1, 1950. (Sec. 2f as to "Kimball.")

KIMBALL LIFE-CROWNED TONEBOARD

The word "Toneboard" is disclaimed. Applicant claims ownership of Registrations Nos. 54,564 and 55,340.

For Sound Boards for Pianos.

Claims use since Aug. 10, 1950, on the mark as shown; and since 1884 on the word "Kimball."

Ser. No. 605,252. Decca Records, Inc., New York, N. Y. Filed Oct. 21, 1950.

DECCA GOLD LABEL SERIES

The term "Gold Label Series" is disclaimed. Applicant claims ownership of Registrations Nos. 407,976, 407,973, and others.

For Grooved Phonograph Records.

Claims use since Sept. 13, 1950.

CLASS 37

PAPER AND STATIONERY

Ser. No. 523,194. Eagle Pencil Company, New York, N. Y. Original filed, act of 1905, May 28, 1947; amended to application under act of 1946, Principal Register, June 18, 1948. (Sec. 2f—Additional evidence.)

TRUE BLUE

For Lead Pencils and Crayons.

Claims use since Dec. 2, 1940.

Ser. No. 604,106. Charles L. Rubinstein, doing business as Ruby Products Co., Milwaukee, Wis. Filed Sept. 27, 1950.

Ruby

Applicant claims ownership of Registration No. 380,320.

For Household Paper Supplies—Namely, Waxed Paper, Waxed Paper Lunch Rolls, Dry and Waxed Shredded Paper, Shelf Paper, Paper Tissues, Paper Butter Wraps, Roll Paper Towels, Waxed Paper Cake Pan Liners, Paper Napkins, Paper Doilies, Box Cover Papers, Paper Covers for Children's Bottles, and Paper Aprons.

Claims use since January 1933.

Ser. No. 617,033. Jerusalem Pencils Limited, Benei-Braq, near Tel-Aviv, Israel. Filed July 27, 1951.

SABRA

Priority under Sec. 44(d). Israelian application filed Feb. 2, 1951; Registration No. 11,331, dated Feb. 2, 1951.

For Pencils.

Ser. No. 626,651. Ace Art Company, Reading, Mass. Filed Mar. 19, 1952.

NUACE

Applicant claims ownership of Registrations Nos. 207,579, 295,372, and others.

For Paper Napkins.

Claims use since Dec. 28, 1951.

Ser. No. 626,845. Addressograph-Multigraph Corporation, Cleveland, Ohio. Filed Mar. 22, 1952.

ADDRESSOLITH

For Master Paper for Duplicating Machines.

Claims use since Apr. 16, 1951.

Ser. No. 627,109. Ashland Paper Mills, Inc., Ashland, N. H. Filed Mar. 27, 1952.

Central

For Toilet Tissue.

Claims use since Feb. 1, 1946.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 578,248. Allied Chemical & Dye Corporation, New York, N. Y. Filed May 5, 1949.

NATIONAL N

Applicant claims ownership of Registrations Nos. 123,946, 150,489, 164,690, and others.

For Chemicals Manufacturer's House Organ Published From Time to Time, Trade Circulars and Related Publications.

Claims use since 1905.

Ser. No. 584,617. Nat Gavender, Incorporated, St. Louis, Mo. Filed Sept. 9, 1949.

Nat Gavender's ITEM izer

"Nat Gavender" is the name of a living individual, whose consent is given.
For Printed Publication Circulated Monthly to Executives of Retail, Department, and Other Stores.
Claims use since June 22, 1949.

Ser. No. 600,735. Oneida Ltd., Oneida and Sherrill, N. Y. Filed July 15, 1950.

GOOD TASTE TODAY

For Series of Pamphlets Advertising Silverware.
Claims use since Mar. 20, 1950.

Ser. No. 602,406. Wynne Kaufman, doing business under the name and style of Russmark Greetings, New York, N. Y. Filed Aug. 18, 1950.

RUSSMARK

For Greeting Cards.
Claims use since Jan. 16, 1948.

Ser. No. 603,540. National Recreation Association, Inc., New York, N. Y. Filed Sept. 14, 1950. (Sec. 2f as to "The Playground.")

THE PLAYGROUND

Applicant claims ownership of Registration No. 183,096.
For Weekly Magazine.
Claims use since April 1907 on the expression "The Playground"; and since Apr. 28, 1950, on the mark as shown.

Ser. No. 607,990. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 22, 1950.

Applicant claims ownership of Registration No. 528,273.
For Decalcomania Signs, Printed Creeds, Manuals, Directories and Rosters, Sold to the Various Units of the Order, and Magazines Published Periodically.
Claims use since Oct. 24, 1947.

Ser. No. 610,509. Commercial Printing & Letter Service Co., Dallas, Tex. Filed Feb. 26, 1951.



For House Organs Publicizing the Activities of the Applicant.
Claims use since Oct. 1, 1949.

Ser. No. 614,858. Vance, Sanders & Company, Boston, Mass. Filed June 6, 1951.

BREVITS

For Weekly Trade Magazine.
Claims use since May 1, 1944.

Ser. No. 617,094. National Comics Publications, Inc., New York, N. Y. Filed July 28, 1951.

HOUSE of MYSTERY

The word "Mystery" is disclaimed.
For Periodical Publication.
Claims use since July 5, 1951.

Ser. No. 617,207. William S. Orkin, doing business as Agenda Club Service, New York, N. Y. Filed Aug. 1, 1951.

Agenda

For Monthly Publication.
Claims use since May 1947.

Ser. No. 621,203. Electrical Information Publications, Inc., Madison, Wis. Filed Nov. 14, 1951. (Sec. 2f.)

Food Service News

Applicant claims ownership of Registrations Nos. 193,730 and 527,347.
For Periodical Publication.
Claims use since January 1944.

Ser. No. 624,063. United Feature Syndicate, Inc., New York, N. Y. Filed Jan. 24, 1952.

DOCTOR'S NOTEBOOK

The word "Doctor's" is disclaimed.
For Newspaper Column Published Daily.
Claims use since Oct. 1, 1951.

Ser. No. 626,087. Koppers Company, Inc., Pittsburgh, Pa. Filed Mar. 7, 1952. (Sec. 2f as to "Koppers.")

KOPPERS

For Printed Publications Issued Periodically and Pamphlets or Sheets Issued From Time to Time.
Claims use since July 1948 on the mark as shown; and since May 14, 1927, on the word "Koppers."

Ser. No. 626,820. The Parents' Institute, Inc., New York, N. Y. Filed Mar. 21, 1952.

FAMILY CLINIC

For Department in a Periodical Publication.
Claims use since Oct. 25, 1951.

Ser. No. 626,821. The Parents' Institute, Inc., New York, N. Y. Filed Mar. 21, 1952.

WHAT'S AHEAD

For Magazine Published Quarterly.
Claims use since Feb. 27, 1952.

Ser. No. 626,875. The Great Books Foundation, Chicago, Ill. Filed Mar. 22, 1952.

THE GADFLY

For Periodical Published at Regular Intervals.
Claims use since Nov. 1, 1948.

Ser. No. 627,791. Book Club Associates, Inc., Garden City, N. Y. Filed Apr. 4, 1952. (Sec. 2f.)

Book Club Associates - Incorporated

For Books.
Claims use since June 1946.

Ser. No. 627,992. Weekly Publications, Inc., New York, N. Y. Filed Apr. 11, 1952.

TRANSITION

For Department or Section of a Periodical Publication.
Claims use since Sept. 30, 1933.

Ser. No. 628,165. Paramount-Florida Photo Service, Inc., doing business as Sun Photo Service, Jacksonville, Fla. Filed Apr. 16, 1952.

SUN PHOTO SERVICE

The words "Photo Service" are disclaimed.
For Photo Prints.
Claims use since June 1, 1948.

Ser. No. 628,317. Ziff-Davis Publishing Company, Chicago, Ill. Filed Apr. 18, 1952.

fantastic

Applicant claims ownership of Registrations Nos. 373,844 and 511,027.
For Magazine Published Quarterly.
Claims use since Mar. 21, 1952.

Ser. No. 628,469. Columbia Records Inc., Bridgeport, Conn. Filed Apr. 22, 1952.

coda

For Monthly Booklet.
Claims use since February 1943.

Ser. No. 628,474. Cue Publishing Co. Inc., New York, N. Y. Filed Apr. 22, 1952.

CUE

Applicant claims ownership of Registration No. 332,886.
For Weekly Periodical.
Claims use since Dec. 8, 1934.

CLASS 39

CLOTHING

Ser. No. 531,281. The Alden Mills, New Orleans, La. Filed Aug. 14, 1947. (Sec. 2f.)

Alden

Applicant claims ownership of Registration No. 92,028.
For Men's, Women's, and Children's Hosiery.
Claims use since 1892.

Ser. No. 592,582. The Stork Shop, Inc., Memphis, Tenn. Filed Feb. 16, 1950.

Stork Shop

The word "Shop" is disclaimed.
For Lingerie—Namely, Garter Belts, Panties, Slips, Gowns, Bed Jackets, Robes, and Negligees; Blouses, Foundation Garments; Sports Wear—Namely, Halters, Swim Suits; Scarfs; and Hats.
Claims use since Apr. 25, 1946.

Ser. No. 613,425. Morris Schwartz & Sons, Inc., New York, N. Y. Filed May 2, 1951.

SWAYVELLE

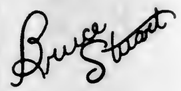
For Women's and Misses' Cloth Coats and Fur Lined and Fur Trimmed Cloth Coats.
Claims use since Mar. 19, 1951.

Ser. No. 614,148. Hyatt and Weisskopf Garment Co., St. Louis, Mo. Filed May 21, 1951. (Sec. 2f as to "Hyatt.")



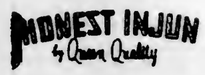
For Women's and Misses' Suits and Coats.
Claims use since Sept. 15, 1950, on the mark as shown; and since 1931 on the word "Hyatt."

Ser. No. 614,447. Bruce S. MacIntosh, doing business as Bruce Stuart, Los Angeles, Calif. Filed May 28, 1951.



The words "Bruce Stuart" are fanciful.
For Ladies' and Misses' Dresses, Suits, and Coats.
Claims use since Feb. 20, 1951.

Ser. No. 616,293. International Shoe Company, St. Louis, Mo. Filed July 10, 1951.



The word "Quality" is disclaimed. Applicant claims ownership of Registrations Nos. 49,749, 137,371, and others.
For Men's, Women's, and Children's Shoes Made of Leather, Fabrics, and/or Combinations Thereof.
Claims use since May 9, 1951.

Ser. No. 617,841. Salvatore Ferragamo, Firenze, Italy. Filed Aug. 18, 1951.

POMPEIAN

For Men's, Women's, and Children's Shoes, Boots, Sandals, Slippers, and Clogs.
Claims use since 1929; and first used in commerce between Italy and the United States in 1930.

Ser. No. 618,144. Bates Shoe Company, Webster, Mass. Filed Aug. 28, 1951.

PHI BATES

The name "Phi Bates" is fanciful. Applicant claims ownership of Registrations Nos. 413,961 and 430,627.
For Men's Shoes.
Claims use since Dec. 14, 1948.

Ser. No. 623,313. Miles Shoes Incorporated, New York, N. Y. Filed Jan. 8, 1952.



For Shoes of Leather, Fabric, Elastic, or of Combinations Thereof for Women and Children.
Claims use since Jan. 2, 1936.

Ser. No. 623,499. E. R. Carpenter Company, Richmond, Va. Filed Jan. 12, 1952.



For Slippers and Shoes To Be Used by Men, Women, and Children.
Claims use since Dec. 12, 1951.

Ser. No. 624,537. Gro-Cord Rubber Company, Lima, Ohio. Filed Feb. 5, 1952.



The word "Lite" is disclaimed. Applicant claims ownership of Registrations Nos. 514,463 and 504,169.
For Shoe Soles.
Claims use since Dec. 14, 1951.

Ser. No. 626,649. Vanity Fair Mills, Inc., Reading, Pa. Filed Mar. 18, 1952.

TAFFETRIQUE

For Women's Apparel—Namely, Panties, Briefs, Vests, Chemises, Slips, Underskirts, Bandeaux, Brassières, Nightgowns, Sleeping Pajamas, Lounging Robes, Negligees, Lounging Pajamas, and Bed Jackets.
Claims use since Mar. 3, 1952.

Ser. No. 627,249. The Boss Manufacturing Company, Kewanee, Ill. Filed Mar. 29, 1952.



The stippling shown on the drawing is for shading. Applicant claims ownership of Registrations Nos. 42,199, 87,151, and others.
For Gloves and Mittens of Leather, Fabric, and a Combination of Leather and Fabric.
Claims use since May 5, 1922.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 621,846. Strass-Einiger Mills, Inc., New York, N. Y. Filed Nov. 29, 1951.

VICANNA

For Textile Fabrics in the Piece Made of Wool.
Claims use since Oct. 18, 1951.

Ser. No. 627,168. Milton C. Blum, Inc., New York, N. Y. Filed Mar. 28, 1952.

Tweedalene

Applicant claims ownership of Registration No. 539,977.
For Cotton Piece Goods.
Claims use since Mar. 1, 1952.

Ser. No. 627,579. Adolph A. Katz, doing business under the name A. Katz, New York, N. Y. Filed Apr. 4, 1952.



The word "Linens" is disclaimed.
For Decorative Linens—Namely, Tablecloths and Napkins, Towels, Doilies, Furniture Scarfs.
Claims use since June 1, 1948.

Ser. No. 627,758. Main Street Fashions, Inc., New York, N. Y. Filed Apr. 8, 1952.

VYCRON

For Plastic Film for Use as a Fabric Substitute.
Claims use since Feb. 19, 1952.

Ser. No. 628,756. Forstmann Woolen Co., Passaic, N. J. Filed Apr. 26, 1952.

LORDELLA

Applicant claims ownership of Registrations Nos. 253,027 and 538,324.
For Woolen Piece Goods.
Claims use since Apr. 21, 1952.

Ser. No. 628,854. Forstmann Woolen Co., Passaic, N. J. Filed Apr. 29, 1952.

CHARDA

Applicant claims ownership of Registrations Nos. 293,556, 284,587, and 284,588.
For Woolen Piece Goods.
Claims use since Feb. 1, 1931.

Ser. No. 628,879. Sandess Manufacturing Co., Philadelphia, Pa. Filed Apr. 29, 1952.

SANDLON

For Textile Fabrics in the Piece of Nylon, Rayon, and Combinations Thereof.
Claims use since Sept. 10, 1951.

Ser. No. 628,931. El-Bar Manufacturing Co., Philadelphia, Pa. Filed Apr. 30, 1952.

Dew-Ette

For Shower Curtains.
Claims use since June 26, 1951.

Ser. No. 629,092. Deering, Milliken & Co., Inc., New York, N. Y. Filed May 2, 1952.

MERETTE

For Textile Fabrics Made of Wool, Cotton, Rayon, and Synthetic Fibers and Combinations Thereof.
Claims use since Apr. 24, 1952.

Ser. No. 631,228. United Merchants and Manufacturers, Inc., New York, N. Y. Filed June 14, 1952.

Contemporama

For Piece Goods of Wool, Cotton, Rayon, Silk, and/or Nylon or Combinations Thereof.
Claims use since on or about Apr. 1, 1952.

CLASS 43

THREAD AND YARN

Ser. No. 628,322. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

ARMADA

For Thread.
Claims use since Sept. 1, 1951.

Ser. No. 628,323. Groves Thread Company, Inc., Gastonia, N. C. Filed Mar. 31, 1952.

AZTEC

For Thread.
Claims use since Feb. 5, 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 622,959. Helen Lambeck Schmierer, trading as Soothee-Shade Company, Maple Shade, N. J. Filed Dec. 28, 1951.

Soothee-Shade

For Shade Designed To Hold Eye Pads.
Claims use since on or about Dec. 8, 1951.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 592,856. Abbott Laboratories, North Chicago, Ill. Filed Feb. 23, 1950. (Sec. 2f.)

BROMINOL

Applicant claims ownership of Registration No. 268,703.
For Stabilizing Agent—Namely, Brominated Olive Oil, Used in the Preparation of Non-Alcoholic Maltless Soft Drinks.
Claims use since Mar. 1, 1929.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 551,477. Sanborn Hermanos, S. A., Mexico City, Mexico. Filed Mar. 8, 1948. (Sec. 2f as to "Sanborn's.")

SANBORN'S MEXICO

The word "Mexico" is disclaimed. Applicant claims ownership of Mexican Registration No. 54,121, dated Jan. 29, 1947.

For Candies.

Claims use since Feb. 3, 1933; and since Feb. 3, 1933, in commerce among the several States.

Ser. No. 561,014. Lone Star Elevators, Amarillo, Tex., assignee of Globe Mills, Inc. Filed July 9, 1948.



The symbol "XXX" is disclaimed.

For Wheat Flour.

Claims use since Jan. 1, 1917.

Ser. No. 568,329. Louis F. Schreibman, doing business as Honey-Kream Distributing Co., Philadelphia, Pa. Filed Nov. 6, 1948.

DUTCH PRIDE

For Potato Chips, Pretzels, and Pretzel Sticks.

Claims use since Sept. 14, 1948.

Ser. No. 591,949. Orringer Pickle Company, New Bern, N. C. Filed Feb. 3, 1950. (Sec. 2f.)

Old Dutch

For Canned Goods—Namely, Cherry Peppers, Sweet Peppers (Spiced), Hot Pimiento Peppers, Sweet Pimiento Peppers, Hot Finger Peppers, Dill Pickles, Sweet Pickles, Sour Pickles, Sweet Dill Luncheon Pickles, Sweet Mixed Pickles, Combination Sweet Pickles, Sweet Gherkins, Sour Gherkins, Dill Tomatoes, Sweet Relish, Stuffed Olives, Queen Olives, Cider Vinegar, Vinegar, Sour Onions, and Sweet Onions.

Claims use since June 1, 1925.

Ser. No. 592,363. Ellena Brothers, Etiwanda, Calif. Filed Feb. 13, 1950.



The mark is a barrel shown on its side with horizontal lines running into the left and right ends thereof. Said lines extend around the bottle container for the goods and represent raffia.

For Wine Vinegar.

Claims use since June 20, 1949.

Ser. No. 596,072. Budget Pack, Inc., Los Angeles, Calif. Filed Apr. 21, 1950.

Thrifty Anns

. For Dried Navy Beans, Uncooked Rice, Shelled Nuts, Dried Fruits, and Candy.

Claims use since December 1947.

Ser. No. 604,558. Mynor Pty. Ltd., Mosman, near Sydney, Australia. Filed Sept. 25, 1950.

MYNOR

Applicant claims ownership of Australian registration filed Feb. 25, 1947; Registration No. 90,321, dated June 29, 1948.

For Canned or Bottled Deciduous and Citrus Fruit Juices, Canned and Preserved Fruits, Candied Fruit Peel, Flavored Sugar Sauces, and Chutneys.

Ser. No. 605,030. Empacadora de Loma Bonita, S. A., Mexico City, Mexico, assignee of Hawaiian Pineapple Company, Ltd., doing business as Dole Sales Company. Filed Oct. 17, 1950. (Sec. 2f.)

SWEET TREAT

Applicant claims ownership of Registration No. 296,633.

For Canned Fruits and Canned Pineapple Juice.

Claims use since Aug. 1, 1928.

Ser. No. 609,166. Coffee County Creamery Inc., doing business as Superior Ice Cream Company, Douglas, Ga. Filed Jan. 24, 1951.



The word "Superior" is disclaimed.

For Ice Cream and Frozen Confections—Namely, Ice Cream Sandwiches and Chocolate Coated Ice Cream Bars.

Claims use since July 6, 1950.

Ser. No. 610,852. Koulouris & Casaretto Co., doing business under the fictitious name of Orica Trading Company, Los Angeles, Calif. Filed Mar. 5, 1951.

ORICA

For Fruit—Namely, Canned Oranges.

Claims use since Mar. 18, 1950.

Ser. No. 611,933. Empacadora de Productos Alimenticios La Fortaleza S. A. de C. V., Salamanca City, Guanajuato, Mexico. Filed Mar. 14, 1951.

LA FORTALEZA

The English translation of the mark is "The Fort." Applicant claims ownership of Mexican Registration No. 28,750, dated Dec. 7, 1928.

For Canned Foods—Namely, Canned Peppers.

Ser. No. 612,984. The Griffith Laboratories, Inc., Chicago, Ill. Filed Apr. 28, 1951. (Sec. 2f—Additional evidence.)

STAK-TENDR

The drawing is lined for red, but no claim is made as to color. Applicant claims ownership of Registration No. 353,699.

For Liquid Preparation of Papaya Juice Used To Make Meat Tender.

Claims use since Sept. 22, 1936.

Ser. No. 613,383. Kenneth N. Rider Company, Inc., Trafalgar, Ind. Filed May 1, 1951.

RED GOLD

Applicant claims ownership of Registrations Nos. 216,824 and 352,504.

For Canned Vegetables—Namely, Tomatoes, Canned Tomato Puree, Canned Tomato Juice, Red Kidney Beans, Red Beans, Plain Navy Beans, Pork and Beans, and Butter Beans Packed From Dried Limas.

Claims use since Apr. 7, 1925.

Ser. No. 616,343. Sue Ann Food Products Corporation, Chicago, Ill. Filed July 11, 1951.

Cocktail Delight

The word "Cocktail" is disclaimed. Applicant claims ownership of Registrations Nos. 309,861 and 358,074.

For Cocktail Sauce.

Claims use since in or about September 1950.

Ser. No. 616,695. Harold O. Caddel, doing business under the name of Fish Center, Richmond, Calif. Filed July 20, 1951.



All words in the mark with the exception of "Skiff" are disclaimed.

For Fresh Fish, Frozen Fish, Cooked Fish, Fish 'n Chips, Fish and Shell Fish Salads, and Fish and Shell Fish Chowders.

Claims use since Nov. 15, 1950.

Ser. No. 617,393. Fan Tan Gum Corporation, Dayton, Ohio. Filed Aug. 7, 1951.

CLORO - GUM

The word "Gum" is disclaimed.

For Chewing Gum.

Claims use since June 2, 1951.

Ser. No. 619,213. Parrott & Co., San Francisco, Calif. Filed Sept. 25, 1951.



The drawing is lined for black, brown, red, and green. The words "Parrott & Co., San Francisco, California" and "Since 1855" are disclaimed.

For Canned Fruits and Vegetables, Frozen Fruits and Vegetables, Canned Fish, Canned Shell Fish, and Frozen Shell Fish.

Claims use since 1855.

Ser. No. 622,517. Tropical Agriculture Co-Operative Association, doing business as Farsouth Growers Co-Operative Assc., Goulds, Fla. Filed Dec. 14, 1951.

Cadet

For Potatoes in Their Natural State.

Claims use since Feb. 28, 1944.

Ser. No. 622,518. Tropical Agriculture Co-Operative Association, doing business as Farsouth Growers Co-Op Ass'n., Goulds, Fla. Filed Dec. 14, 1951. (Sec. 2f.)

DADE COUNTY

Applicant claims ownership of Registration No. 376,265.

For Potatoes in Their Natural State.

Claims use since Jan. 21, 1939.

Ser. No. 625,545. Robert D. Saunders, doing business as Bob Saunders Co., Watsonville, Calif. Filed Feb. 26, 1952.

BRASS-RING

For Fresh Vegetables.

Claims use since Oct. 30, 1949.

Ser. No. 625,950. American Seal-Kap Corporation of Delaware, Long Island City, N. Y. Filed Mar. 5, 1952.

Enzylac

The word "Lac" is disclaimed. Applicant claims ownership of Registration No. 364,535.

For Enzyme Powder for Treating Milk.

Claims use since Mar. 3, 1938.

Ser. No. 625,963. Burrus Mills, Incorporated, doing business under the name and style of Morten Milling Co., Dallas, Tex. Filed Mar. 5, 1952.

SUNNY TEXAS

The word "Texas" is disclaimed. Applicant claims ownership of Registration No. 296,825.
For Wheat Flour.
Claims use since 1931.

Ser. No. 626,515. Lekas & Drivas, Inc., New York, N. Y. Filed Mar. 15, 1952.

CREM-O-GAL

The word "Crem" is disclaimed.
For Cheese.
Claims use since Feb. 11, 1952.

Ser. No. 626,757. Southeastern Syrup Company, Jackson, Tenn. Filed Mar. 20, 1952.

UNCLE WIGGILY

For Table Syrup.
Claims use since Dec. 15, 1941.

Ser. No. 626,828. Scandinavian Coffee Corp., Brooklyn, N. Y. Filed Mar. 21, 1952.

SWEDEN HOUSE

Applicant claims ownership of Registration No. 377,884.
For Coffee.
Claims use since Mar. 22, 1939.

Ser. No. 626,971. Wallerstein Company, Inc., New York, N. Y. Filed Mar. 24, 1952.

FERMEX

Applicant claims ownership of Registration No. 351,566.
For Fungal Enzyme Supplementing Preparation for Use in Baking.
Claims use since on or about Jan. 12, 1951.

Ser. No. 627,086. Roberts Dairy Company, Omaha, Nebr. Filed Mar. 26, 1952.

VADA

For Skimmed Milk (Partially Defatted Milk) Fortified With Vitamins A and D and Additional Milk Solids.
Claims use since Jan. 16, 1952.

Ser. No. 627,088. Roman Meal Company, Tacoma, Wash. Filed Mar. 26, 1952. (Sec. 2f as to "Roman.")

ROMAN MEAL

The word "Meal" is disclaimed. Applicant claims ownership of Registrations Nos. 187,362 and 251,517.
For Bread, Biscuits, and Crackers.
Claims use since in the fall of 1913.

Ser. No. 627,089. Roman Meal Company, Tacoma, Wash. Filed Mar. 26, 1952. (Sec. 2f as to "Roman.")

ROMAN MEAL

The word "Meal" is disclaimed. Applicant claims ownership of Registration No. 251,517.
For Bread, Biscuits, Cookies, and Crackers.
Claims use since May 1921.

Ser. No. 627,241. Armour and Company, Chicago, Ill. Filed Mar. 29, 1952.

EH "52"

For Lard.
Claims use since July 1949.

Ser. No. 627,260. Girard's, Inc., San Rafael, Calif. Filed Mar. 29, 1952. (Sec. 2f.)

Girard's

Applicant claims ownership of Registrations Nos. 364,654, 512,960, and 558,153.
For Salad Dressings.
Claims use since Dec. 1, 1934.

Ser. No. 627,566. D. E. Foote & Co. Incorporated, Baltimore, Md. Filed Apr. 4, 1952.

COMPASS

For Canned Vegetables.
Claims use since August 1899.

Ser. No. 627,568. D. E. Foote & Co. Incorporated, Baltimore, Md. Filed Apr. 4, 1952. (Sec. 2f.)

Foote's Best

For Canned Vegetables.
Claims use since September 1903.

Ser. No. 627,569. D. E. Foote & Co., Incorporated, Baltimore, Md. Filed Apr. 4, 1952.

OLD TOM

For Canned Vegetables.
Claims use since Feb. 18, 1890.

Ser. No. 627,605. Southland Coffee Company, Atlanta, Ga. Filed Apr. 4, 1952. (Sec. 2f.)

"LEAVES NO GROUNDS FOR COMPLAINT"

Applicant claims ownership of Registrations Nos. 373,661 and 550,069.
For Coffee.
Claims use since 1938.

Ser. No. 629,209. Alice Love Products Co., Portland, Oreg. Filed May 5, 1952.

Alice LOVE

"Alice Love" is the name of the founder of the business, now deceased.
For Fruit Jams and Jellies.
Claims use since 1919.

Ser. No. 629,245. Charles Killgore Company, Inc., Yonkers, N. Y. Filed May 6, 1952.

Choc-low

For Low-Calorie Chocolate-Flavored Pudding for Restricted Diets.
Claims use since Apr. 17, 1952.

Ser. No. 632,582. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Aug. 2, 1952. (Sec. 2f as to "Staley's"—Additional evidence.)

Staley's



The drawing is lined for red. Applicant claims ownership of Registrations Nos. 222,066 and 378,691.
For Animal Feeds—Namely, Stock and Poultry Feeds and Ingredients for Stock, Poultry, and Pet Feeds, Said Ingredients Being Soybean Oil Meal, Corn Gluten Feed, Corn Gluten Meal, and Corn Oil Meal, and Said Pets Being Dogs, Cats, and Similar Animals.
Claims use since Sept. 19, 1912.

Ser. No. 632,584. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Aug. 2, 1952. (Sec. 2f—Additional evidence.)

Staley's

Applicant claims ownership of Registration No. 378,691.
For Animal Feeds—Namely, Stock and Poultry Feeds and Ingredients for Stock, Poultry, and Pet Feeds, Said Ingredients Being Soybean Oil Meal, Soybean Mill Feed, Corn Gluten Feed, Corn Gluten Meal, Corn Oil Meal, Spent Bone Charcoal, and Vegetable Lecithin, and Said Pets Being Dogs, Cats, and Similar Animals.
Claims use since September 19, 1912.

CLASS 47

WINES

Ser. No. 620,926. Mij. "De Betuwe" N. V., Tiel, Netherlands. Filed Nov. 6, 1951.

VanderFlip

For Wines.
Claims use since Oct. 9, 1951, in Holland; and since Oct. 9, 1951, in commerce between Holland and the United States.

Ser. No. 625,477. Juillard Fancy Foods Co., San Francisco, Calif. Filed Feb. 25, 1952.

CHATONET

For Aperitif Wine.
Claims use since Feb. 4, 1952.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 613,297. Chas. A. Krause Milling Co., Milwaukee, Wis. Filed Apr. 28, 1951.

Jiffimalt

Applicant claims ownership of Registration No. 285,864.
For Flaked Corn Product Used in the Manufacture of Alcoholic Malt Beverages.
Claims use since 1924.

Ser. No. 614,749. Brewing Corporation of America, Cleveland, Ohio. Filed June 5, 1951.



The drawing is lined for the color red. The portrait is fanciful. Applicant claims ownership of Registrations Nos. 306,001, 321,266, and 522,129.
For Ale.
Claims use since July 15, 1949.

Ser. No. 626,399. Molson's Brewery Limited, Montreal, Quebec, Canada. Filed Mar. 13, 1952. (Sec. 2f.)

Molson's

Applicant claims ownership of Registrations Nos. 312,132, 312,154, and others.
For Ale and Porter.
Claims use since 1863; and since in or about the year 1933 in commerce between the United States and Canada.

Ser. No. 626,401. Molson's Brewery Limited, Montreal, Quebec, Canada. Filed Mar. 13, 1952. (Sec. 2f as to "Molson's.")

Molson's

Applicant claims ownership of Registrations Nos. 312,132, 312,154, and others.
For Ale and Porter.
Claims use since 1863; and since in or about the year 1933 in commerce between the United States and Canada.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 611,356. H & H Distributing Company, Inc., Chicago, Ill. Filed Mar. 15, 1951.



For Whiskey.
Claims use since Dec. 20, 1950.

Ser. No. 625,202. G. F. Heublein & Bro., Inc., Hartford, Conn. Filed Feb. 19, 1952.

RELSKA

For Vodka.
Claims use since Feb. 6, 1952.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 623,939. Vikon Tile Corporation, Washington, N. J. Filed Jan. 15, 1952.

Vikolorscope

For Panel Display Boards for Displaying Simulated Tiles.
Claims use since Oct. 1, 1951.

Ser. No. 627,458. Old Copper Mine Farms Inc., Warrenville, N. J. Filed Apr. 2, 1952.

WEATHER KING

For Cold Frames and Hot Beds for Plants and Flowers.
Claims use since Feb. 21, 1952.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 595,184. Muriel Bell Incorporated, New York, N. Y. Filed Apr. 4, 1950.

Anniversary

For Perfumes and Colognes.
Claims use since Apr. 14, 1947.

Ser. No. 600,790. Alvis R. Smith, Spokane, Wash. Filed July 17, 1950.

Smith's Wonder Aid

The name "Smith's" and the word "Aid" are disclaimed.
For Preparations To Be Applied to the Hair and Scalp To Stimulate Hair Growth and Condition the Scalp.
Claims use since Apr. 21, 1950.

Ser. No. 606,050. Rapidol Distributing Corporation, New Hyde Park, N. Y. Filed Nov. 7, 1950. (Sec. 2f.)

HI-LITE

Applicant claims ownership of Registration No. 329,407.
For Hair Rinse.
Claims use since May 3, 1935.

Ser. No. 616,051. Sales Affiliates, Inc., New York, N. Y. Filed July 3, 1951.

WAVE FORM

The word "Wave" is disclaimed.
For Waving Lotion Used in the Cold Wave Process of Waving Hair.
Claims use since June 15, 1951.

Ser. No. 623,774. Newbro Manufacturing Company, Atlanta, Ga. Filed Jan. 18, 1952.

SULFI-Q

Applicant claims ownership of Registration No. 367,622.
For Preparation for Use on the Hair and Scalp as an Aid in the Removal of Loose Dandruff, as a Dressing for Grooming of the Hair, and To Relieve Itching of the Scalp, the Preparation Being in the Form of a Liquid or Paste Compound.
Claims use since Jan. 10, 1952.

Ser. No. 623,860. Norton S. Walbridge, doing business as Leggies Co., Detroit, Mich. Filed Jan. 21, 1952.

Leggies

For Cream Toilet Preparation Used in Connection With Shaving the Legs.
Claims use since Dec. 21, 1951.

Ser. No. 623,861. Norton S. Walbridge, doing business as Leggies Co., Detroit, Mich. Filed Jan. 21, 1952.

Legasee

For Cream Toilet Preparation Used in Connection With Shaving the Legs.
Claims use since Dec. 21, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 546,141. Whittemore Bros. Corp., Cambridge, Mass. Filed Jan. 3, 1948. (Classified in Class 4.)
Applicant claims ownership of Registration No. 206,862.
See this serial number in Class 4 for good and mark.
Claims use since Oct. 22, 1884.

Ser. No. 593,061. Feller-Jones Corporation, New York, N. Y. Filed Feb. 25, 1950.

FLAME CLEAN

The word "Clean" is disclaimed.
For Cleaner Fluid for Rugs, Carpets, and Drapes Which Fireproofs as It Cleans.
Claims use since Oct. 25, 1949.

Ser. No. 609,195. Peck's Products Company, St. Louis, Mo. Filed Jan. 24, 1951.

PEPCO

For Soaps, Compounds for Washing Baking Pans, Cans, and the Like, Powdered Detergent for Washing Dishes and General Cleaning Purposes, and Detergents for Cleaning Metals, Tiles, Porcelain, and Similar Surfaces.
Claims use since 1927.

Ser. No. 612,696. Lusterized Service Co., Spokane, Wash. Filed Apr. 16, 1951. (Sec. 2f.)

Lusterized

Applicant claims ownership of Registration No. 371,357.
For Chemical Cleaning Fluid and a Powdered Cleaning Preparation, Both of Which Are Used in the Dry Cleaning of Fabrics.
Claims use since November 1935.

Ser. No. 613,735. Sears, Roebuck and Co., Chicago, Ill. Filed May 10, 1951.



For Venetian Blind Cleaner.
Claims use since on or about July 1, 1947.

Ser. No. 614,694. Firmenich Incorporated, New York, N. Y. Filed June 4, 1951.

ANTHEROSIA

Applicant claims ownership of Registration No. 284,585.
For Synthetic and Natural Aromatic Chemicals and Essential Oils Used as Ingredients for Detergents and Soaps.
Claims use since Nov. 8, 1930.

Ser. No. 615,892. Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Filed June 29, 1951. (Classified in Class 4.) (Sec. 2f.)
Applicant claims ownership of Registrations Nos. 135,250 and 190,017.
See this serial number in Class 4 for goods and mark.
Claims use since on or about Apr. 4, 1894.

Ser. No. 615,893. Griffin Manufacturing Co., Inc., Brooklyn, N. Y. Filed June 29, 1951. (Classified in Class 4.)
Applicant claims ownership of Registrations Nos. 135,250 and 190,017.
See this serial number in Class 4 for goods and mark.
Claims use since Apr. 4, 1894.

Ser. No. 622,535. Gardiner Manufacturing Company, Inc., Buffalo, N. Y. Filed Dec. 15, 1951.

101

Applicant claims ownership of Registrations Nos. 163,782 and 285,247.
For Sodium Hypochlorite Solution for Use in Washing Clothes, the General Cleaning of Wood, Glass, Linoleum, Porcelain, and Bitreous China Surfaces, and Having Cleansing, Bleaching, Stain Removing, Disinfecting, and Deodorizing Properties.
Claims use since Apr. 1, 1920.

Ser. No. 622,692. Doris Brown, doing business as The Val-Ring Chemical Company, Burbank, Calif. Filed Jan. 9, 1952.

VAL RING

The word "Ring" and the representation of a valve and ring are disclaimed.
For Chemical Preparation for Cleaning Valves, Pistons, and Cylinders.
Claims use since July 21, 1951.

Ser. No. 623,360. Ferd. Mulhens, Inc., New York, N. Y. Filed Jan. 9, 1952.



The terms "Etoile de Cologne," "Ster van Keulen," "Stern von Köln," "Stella di Colonia," and "Estrella de Colonia" shown on the drawing are the French, Dutch, German, Italian and Spanish equivalents of the English expression "Star of Cologne." The words "of Cologne" and its French, Dutch, German, Italian, and Spanish equivalents, shown on the drawing, are disclaimed apart from the mark as a whole.

For Soap.

Claims use since Mar. 7, 1891.

Ser. No. 624,308. Show Dog Products, Chicago, Ill. Filed Jan. 30, 1952.

"REPS" Show Dog

The word "Dog" is disclaimed.

For Shampoo Preparation for Dogs and for Other Pet Animals.

Claims use since Jan. 10, 1951.

Ser. No. 625,169. West Disinfecting Company, Long Island City, N. Y. Filed Feb. 18, 1952.

LATHERATOR

For Liquid Soap.

Claims use since Jan. 1, 1937.

Ser. No. 626,336. Peck's Products Company, St. Louis, Mo. Filed Mar. 12, 1952.

HEP

Applicant claims ownership of Registration No. 359,552.

For Powdered Hand Soap, Hand Cleaning Paste, Washing Powder, Liquid Dishwashing Compound, and Liquid Detergent.

Claims use since Feb. 21, 1938.

Ser. No. 626,345. Sage Laboratories, Inc., New York, N. Y. Filed Mar. 12, 1952.

LILLIAN SAGE

The name is that of Lillian Sage, whose consent to register her name is of record in this case. Applicant claims ownership of Registration No. 302,423.

For Shampoo.

Claims use since Sept. 5, 1951.

Ser. No. 627,124. Finger Lakes Chemical Company, Inc., Etna, N. Y. Filed Mar. 27, 1952.

MARBE-LAKE

For Detergent Cleaning Compound for Cleaning of Tile and Stone Floors.

Claims use since Aug. 21, 1951.

Ser. No. 627,389. John Hanser, Jr., doing business under the name of John Hanser Soap Co., Milwaukee, Wis. Filed Apr. 1, 1952.

WONDER

Applicant claims ownership of Registration No. 363,769.

For Soap Flakes in Packages and Soap in Bars.

Claims use since 1919.

Ser. No. 628,153. Gold Medal Hair Products Inc., Brooklyn, N. Y. Filed Apr. 16, 1952.

Be-Gone

Applicant claims ownership of Registration No. 510,416.

For Detergent Shampoo, Lanolin Cream Shampoo, Liquid Castile Shampoo, Cream Shampoo, Shampoos (Liquid), Pine Tar Shampoo, Soapless Shampoo (Liquid), Liquid Tar Shampoo, and Hair Coloring Shampoos.

Claims use since Feb. 21, 1950.

Ser. No. 628,760. Max A. Gurvich, doing business as Pacific Chemical Manufacturing Co., Seattle, Wash. Filed Apr. 26, 1952.

Balance

For Detergents for Laundry and Kitchen Use.

Claims use since Mar. 20, 1952.

Ser. No. 628,769. Los Angeles Soap Company, Los Angeles, Calif. Filed Apr. 26, 1952.

SUDS

For Detergents for Dish and Glasswashing, Laundering, Surface Cleaning and the Like and/or Soaps.

Claims use since June 13, 1951.

Ser. No. 628,966. Soap Specialties, Inc., Philadelphia, Pa. Filed Apr. 30, 1952.

Pomp

For Sudsing Detergent for Glasses and Dishes.

Claims use since July 16, 1951.

Ser. No. 629,029. Bascom Lay, doing business under the name of L. & H. Chemical Laboratories, Nashville, Ark. Filed May 1, 1952.

BASCO



The drawing is lined for green. The words "On the Spot" are disclaimed.

For Preparation for Cleaning the Hands.

Claims use since Jan. 1, 1952.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 548,386. National Cylinder Gas Company, Chicago, Ill. Filed Jan. 30, 1948. (Classified in Class 103.) See this serial number in Class 103 for goods and mark.

Claims use since 1935.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 591,696. Northwest Publications, Inc., St. Paul, Minn. Filed Jan. 30, 1950.

Betty Service

The name is fanciful and is not known to be the name of any living person.

For Advertising Food Products, Kitchen Necessities, and Cooking Equipment of Various Manufacturers Through the Medium of Radio Broadcast Programs.

Claims use since Jan. 1, 1938.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 535,275. Union Oil Company of California, Los Angeles, Calif. Filed Sept. 22, 1947. (Sec. 2f.)

STOP-WEAR
LUBRICATION

The word "Lubrication" is disclaimed. Applicant claims ownership of Registrations Nos. 318,550 and 318,551.

For Lubricating Automobiles and Other Motor Vehicles.

Claims use since February 1933.

Ser. No. 548,386. National Cylinder Gas Company, Chicago, Ill. Filed Jan. 30, 1948.

NCG

For Rental, Maintenance and Repair of Compressed Gas Producing and Handling Apparatus, Electric and Gas Welding and Cutting Equipment.

Claims use since 1935.

Ser. No. 617,083. The Hobart Manufacturing Company, Troy, Ohio. Filed July 28, 1951. (Sec. 2f as to "Hobart.")

Hobart

Applicant claims ownership of Registrations Nos. 92,217, 201,898, and others.

For Inspection, Maintenance, and Repair Service for Machines for Processing, Preparing and Otherwise Handling Food in Bakeries, Kitchens, and Other Establishments Preparing and Serving Meals; Machines for Mixing, Cutting, Slicing, Grinding, Peeling, Tenderizing, Weighing, Sterilizing, Preparing, Processing, and Otherwise Handling Food in Stores and Other Establishments Preparing and Selling Foodstuffs; and Machines for Washing, Cleaning, Polishing, and Otherwise Handling Dishes, Glasses, Containers, and Utensils Used in Preparing and Dispensing Foodstuffs.

Claims use since Aug. 12, 1929, on the mark as shown; and since Nov. 1, 1889 on the word "Hobart."

Ser. No. 628,183. Alber Electric Co. Inc., Kansas City, Mo. Filed Apr. 17, 1952.



For Electrical Installation Contracting Service and the Repair of Household, Commercial, and Industrial Electrical Installations and Electrical Appliances and Apparatus.

Claims use since June 30, 1951.

CLASS 104

COMMUNICATION

Ser. No. 627,798. Booth Radio & Television Stations, Inc., Detroit, Mich. Filed Apr. 9, 1952.

Rockin' with Leroy

The name "Leroy" is disclaimed.
For Radio Program Broadcasting.
Claims use since October 1949.

Ser. No. 627,801. Booth Radio & Television Stations, Inc., Detroit, Mich. Filed Apr. 9, 1952.

Brisk with Bristoe

The name "Bristoe" is disclaimed.
For Radio Program Broadcasting.
Claims use since February 1950.

Ser. No. 628,883. WJW, Inc., Cleveland, Ohio. Filed Apr. 29, 1952.

The Moon Dog House

For Radio Program Broadcasting Services.
Claims use since July 30, 1951.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 584,419. Walter C. Rushmore, doing business as American National Travelers Service, Denver, Colo. Filed Sept. 2, 1949.



For Travel Services—Namely, Arranging Tours for Travelers by Auto, Making Reservations for Travelers, and Conducting Tours for Tourists.
Claims use since June 1, 1949.

Ser. No. 623,956. Fugate & Girton Driveaway Co., Inc., Brazil, Ind., and Springfield, Ohio. Filed Jan. 23, 1952.



The terms "Fort Wayne Indiana" and "Springfield Ohio" are disclaimed.
For Delivering Automotive Vehicles by the Driveaway Method.
Claims use since Aug. 15, 1948.

CLASS 106

MATERIAL TREATMENT

Ser. No. 625,053. The White-Haines Optical Company, Columbus, Ohio. Filed Feb. 15, 1952.



The words "Rx Service" and "Better Vision" are disclaimed. Applicant claims ownership of Registrations Nos. 210,411, 210,412, and others.
For Prescription Service—Namely, Making Spectacles or Eye Glasses or Parts Thereof in Accordance With the Individual Requirements of a Patient Previously Examined.
Claims use since June 1, 1925.

Ser. No. 625,886. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Filed Mar. 4, 1952.



Applicant claims ownership of Registrations Nos. 188,786, 191,136, and others.
For Services Rendered Manufacturers of All Types of Cotton Fabrics Which Services Consist of Rendering Fabrics a High Permanent Lustre by Special Mercerization and Rendering Said Fabrics Shrunk to Within One Percent Average Residual Shrinkage by Government Test Methods.
Claims use since Jan. 17, 1952.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,728. Correction Fluids Used in Duplicating Machines. Copy Papers, Inc., Chicago, Ill., assignor to Copy Paper Sales & Service Agency, Inc., Chicago, Ill., a corporation of Illinois.
Filed Sept. 1, 1945, Serial No. 487,887. Published July 15, 1952. Class 37.

444,729. Oil Paints in Paste or Liquid Form and Paint Enamels. The Bissell Varnish Company, Bridgeport, Conn.
Filed Jan. 11, 1947, Serial No. 515,606. Published June 21, 1949. Class 16.

444,730. Paper Tablets. Western Tablet & Stationery Corporation, Dayton, Ohio.
Filed July 3, 1947, Serial No. 526,160. Published May 20, 1952. Class 37.

ACT OF 1946, PRINCIPAL REGISTER

565,823. Accounting Forms. Otto F. Bauschard, Erie, Pa. Original filed, act of 1905, May 17, 1947; amended to application under act of 1946, Principal Register, Jan. 2, 1952, Serial No. 522,582. Published Aug. 12, 1952. Class 37.

565,824. Electric Lighting Fixtures. The Edwin F. Guth Company, St. Louis, Mo.
Filed July 5, 1947, Serial No. 526,981. Published Aug. 10, 1948. Class 21.

565,825. Paper Towels and Toilet Tissue. Crown Zellerbach Corporation, also doing business as National Paper Products Sales Company, San Francisco, Calif.
Filed July 5, 1947, Serial No. 527,134. Published Jan. 15, 1952. Class 37.

565,826. Writing, Typewriter, and Printing Paper. Valley Paper Company, Holyoke, Mass.
Filed July 5, 1947, Serial No. 527,646. Published Apr. 1, 1952. Class 37.

565,827. Writing, Typewriter, and Printing Paper. Valley Paper Company, Holyoke, Mass.
Filed July 5, 1947, Serial No. 528,007. Published May 27, 1952. Class 37.

565,828. Sliced Bacon, Smoked Bacon, Smoked Ham, Ready To Eat Smoked Ham, Beef and Gravy, Lard, and Frankfurters. American Packing & Provision Co., Ogden, Utah, assignor to Swift & Company, Chicago, Ill., a corporation of Illinois.
Filed Oct. 2, 1947, Serial No. 536,483. Published July 22, 1952. Class 46.

565,829. Jacquard Paper Board. Lane Paper Co., Inc., Jersey City, N. J.
Filed Oct. 16, 1947, Serial No. 538,012. Published July 1, 1952. Class 37.

565,830. Canned Fruits; Canned Berries; Canned Vegetables; Canned Fish and Shellfish; Canned Fruit Juices Except Grapejuice, Etc. General Grocer Company, St. Louis, Mo.
Filed Oct. 18, 1947, Serial No. 538,271. Published July 29, 1952. Class 46.

565,831. Rice. River Brand Rice Mills, Inc., New York, N. Y.
Filed Oct. 23, 1947, Serial No. 538,815. Published July 22, 1952. Class 46.

565,832. Beer. Columbia Breweries, Inc., Tacoma, Wash.
Filed Nov. 25, 1947, Serial No. 542,288. CONCURRENT USE. Published July 15, 1952. Class 48.

565,833. Men's Suits, Comprising Coats, Vests, and Trousers. Hart Schaffner & Marx, Chicago, Ill.
Filed Feb. 2, 1948, Serial No. 548,588. Published Aug. 2, 1949. Class 39.

565,834. Canned Fish. Booth Fisheries Corporation, Chicago, Ill.
Filed Feb. 18, 1948, Serial No. 550,015. Published Jan. 15, 1952. Class 46.

565,835. Oil and Wax Treated Dusting, Polishing, and Wiping Cloths. Union Wadding Company, Pawtucket, R. I.
Filed Apr. 24, 1948, Serial No. 555,574. Published Aug. 5, 1952. Class 4.

565,836. Toilet Paper. The E. B. Eddy Company, Hull, Quebec, Canada.
Filed May 29, 1948, Serial No. 558,113. Published Aug. 5, 1952. Class 37.

565,837. Paper Blank Forms for Use in Typewriters, Tabulators, and Other Forms of Writing Machines, and More Particularly for Tabulating Paper for Use in Such Machines. Moore Business Forms, Inc., Niagara Falls, N. Y.
Filed June 26, 1948, Serial No. 560,281. Published July 8, 1952. Class 37.

565,838. Bed Springs. Leggett & Platt, Inc., Carthage, Mo., Louisville and Winchester, Ky., and Dallas, Tex.
Filed July 1, 1948, Serial No. 560,561. Published Aug. 5, 1952. Class 32.

565,839. Fried Pork Skins. Tru-Value Food Products, Santa Cruz, Calif.
Filed July 2, 1948, Serial No. 560,666. Published July 29, 1952. Class 46.

565,840. Self-Sealing Waxed Paper. Kalamazoo Vegetable Parchment Co., Parchment, Mich.
Filed July 26, 1948, Serial No. 562,201. Published May 27, 1952. Class 37.

565,841. Hand Knitting Needles. Stylofede Corporation, Glendale, Calif.
Filed July 27, 1948, Serial No. 562,283. Published June 24, 1952. Class 40.

565,842. Bolts, Nuts, Rivets, Nails, Mechanical Tubing, Screws, Staples, Etc. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed Sept. 9, 1948, Serial No. 564,901. Published Aug. 12, 1952. Class 13.

565,843. Bolts, Nuts, Rivets, Nails, Mechanical Tubing, Screws, Staples, Spikes, Metal Washers, Turn Buckles, Metal Hangers and Stirrups, Threaded Tubing and Bars, Etc. Joseph T. Ryerson & Son, Inc., Chicago, Ill.
Filed Sept. 9, 1948, Serial No. 564,904. Published Aug. 12, 1952. Class 13.

565,844. Bond Paper. Groveton Papers Company, Groveton, N. H.
Filed Sept. 22, 1948, Serial No. 565,619. Published Jan. 10, 1950. Class 37.

565,845. Mill Mixed Plasters or Mortars Used in Various Compositions for Either Interior or Exterior Sound Absorbent Plaster Wall Coating. The Cleveland Gypsum Company, Cleveland, Ohio.
Filed Oct. 5, 1948, Serial No. 566,451. Published July 22, 1952. Class 12.

565,846. Electrically Operated Combination Baby Bottle Heater and Cooking Appliance. Electric Steam Radiator Corporation, Paris, Ky.
Filed Oct. 5, 1948, Serial No. 566,462. Published Aug. 5, 1952. Class 21.

565,847. Automobile Polish. Lustur-Seal Corporation, Jackson, Mich.
Filed Nov. 2, 1948, Serial No. 568,066. Published July 8, 1952. Class 4.

565,848. Binders for Loose Leaf Books. Spiral Binding Company, Inc., New York, N. Y.
Filed Nov. 12, 1948, Serial No. 568,684. Published Aug. 5, 1952. Class 37.

565,849. Cigars and Smoking Tobacco. The Henry Straus Co., Cincinnati, Ohio.
Filed Nov. 18, 1948, Serial No. 569,023. Published Aug. 5, 1952. Class 17.

565,850. Insole Tape Made of Textile Fabric for Shoes. Ayrlyte Corporation, New York, N. Y.
Filed Nov. 24, 1948, Serial No. 569,344. Published July 15, 1952. Class 40.

565,851. Desk Sets Comprising Ink Stands and Desk Capillary Feed Pens. Gregory Fount-O-Ink Company, a firm, Los Angeles, Calif., assignee of Gregory Fount-O-Ink Company, a corporation.
Filed Oct. 25, 1948, Serial No. 570,027. Published May 27, 1952. Class 37.

565,852. Circuit Breakers. I-T-E Circuit Breaker Company, Philadelphia, Pa.
Filed Jan. 11, 1949, Serial No. 571,972. Published Mar. 6, 1951. Class 21.

565,853. Machine Dehydrated Macrocystis-Pyrifera, a Dehydrated Sea Kelp in Granular and Tablet Form for Use as a Food. Philip R. Park, Inc., San Pedro, Calif.
Filed Jan. 24, 1949, Serial No. 572,688. Published Aug. 5, 1952. Class 46.

565,854. Dairy Feed the Principal Ingredients of Which Are Wheat Bran, Dried Beet Pulp, Molasses, and Alfalfa Meal. Ralston Purina Company, St. Louis, Mo.
Filed Jan. 27, 1949, Serial No. 572,920. Published July 22, 1952. Class 46.

565,855. Moistureproof and Solvent Resistant Bottle-Cap Liner Material Consisting in Bleached Kraft Paper Coated With Flexible Resin Containing Melamine-Formaldehyde. Irvington Varnish & Insulator Company, Irvington, N. J.
Filed Feb. 8, 1949, Serial No. 573,489. Published July 1, 1952. Class 37.

565,856. Toilet Paper, Waxed Paper, Household Rolls, Paper Towels, and Paper Napkins. Sterling Pulp & Paper Company, Eau Claire, Wis.
Filed Feb. 16, 1949, Serial No. 573,988. Published Mar. 13, 1951. Class 37.

565,857. Fishing Lines. The Bevin Wilcox Line Company, East Hampton, Conn.
Filed Feb. 24, 1949, Serial No. 574,478. Published Dec. 13, 1949. Class 22.

565,858. Belting in the Nature of Findings. Supply Manufacturing Co. Inc., New York, N. Y.
Filed Mar. 17, 1949, Serial No. 575,608. Published June 24, 1952. Class 40.

565,859. Feeds for Livestock, Poultry, and Rabbits, Etc. Sherwood Feed Mills, Inc., Baltimore, Md.
Filed Mar. 18, 1949, Serial No. 575,675. Published July 22, 1952. Class 46.

565,860. Sulphur in Powder Form Used for Agricultural Dusting. Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated.
Filed Mar. 26, 1949, Serial No. 576,147. Published July 29, 1952. Class 6.

565,861. Sulphur in Powder Form Used for Agricultural Dusting. Mathieson Chemical Corporation, Baltimore, Md., assignee of Southern Acid & Sulphur Company, Incorporated.
Filed Mar. 26, 1949, Serial No. 576,150. Published July 29, 1952. Class 6.

565,862. Electric Food Mixers, Juicers, Grinders, and Choppers. Dormeyer Corporation, Chicago, Ill.
Filed Mar. 30, 1949, Serial No. 576,317. Published Oct. 24, 1950. Class 21.

565,863. Belting in the Nature of Findings. Supply Manufacturing Co. Inc., New York, N. Y.
Filed Mar. 30, 1949, Serial No. 576,369. Published June 3, 1952. Class 40.

565,864. Wines. T. G. Bright & Co. Limited, Township of Stamford, Ontario, Canada.
Filed Apr. 5, 1949, Serial No. 576,621. Published July 8, 1952. Class 47.

565,865. Set of Knives and Holder Therefor Sold Together as a Unit. Ekco Products Company, Chicago, Ill.
Filed May 4, 1949, Serial No. 578,200. Published June 17, 1952. Class 23.

565,866. Plastic Inflatable Toys Simulating Dolls and Animals and Beach Equipment—Namely, Balls, Inflatable Floats Designed for Children's Use, Life Preserve Rings, and Inflatable Wading Pools Designed for Children's Use. Vanguard Corporation, Springfield, Mass.
Filed May 20, 1949, Serial No. 579,239. Published July 29, 1952. Class 22.

565,867. Cigarettes. Brown & Williamson Tobacco Corporation, Louisville, Ky.
Filed June 14, 1949, Serial No. 580,399. Published Aug. 5, 1952. Class 17.

565,868. Metal Spring-Wire Pads Used in Articles of Furniture—Namely, Mattresses, Cushions. Flex-O-Lators, Inc., Carthage, Mo.
Filed June 20, 1949, Serial No. 580,780. Published Aug. 5, 1952. Class 32.

565,869. Electrical Wiring Devices—Namely, Attachment Caps, Heater Connectors, Etc. Monowatt Incorporated, Providence, R. I., assignor to General Electric Company, a corporation of New York.
Filed June 30, 1949, Serial No. 581,340. Published July 29, 1952. Class 21.

565,870. Electrical Wiring Devices—Namely, Attachment Caps, Heater Connectors, Lampholders, Outlets, Plugs, Etc. Monowatt Incorporated, Providence, R. I., assignor to General Electric Company, a corporation of New York.
Filed June 30, 1949, Serial No. 581,341. Published July 29, 1952. Class 21.

565,871. Paper Products—Namely, Napkins, Crepe Paper, Doilies, Shelf Edging, Waxed Paper. Sears, Roebuck and Co., Chicago, Ill.
Filed June 30, 1949, Serial No. 581,362. Published July 22, 1952. Class 37.

565,872. Electrical Wiring Apparatus—Namely, Electric Flush Receptacles, Attachment Plug Caps, Cord-Coupling Caps, Couplings, Connectors, Motor Couplings, Attachment Plugs, and Motor Plugs. Harvey Hubbell, Incorporated, Bridgeport, Conn.
Filed July 2, 1949, Serial No. 581,484. Published Aug. 5, 1952. Class 21.

565,873. Ball Point Pens. W. A. Sheaffer Pen Company, Fort Madison, Iowa.
Filed July 29, 1949, Serial No. 582,701. Published Aug. 5, 1952. Class 37.

565,874. Fresh Deciduous Fruits. Western Fruit & Produce Co., Inc., Yakima, Wash.
Filed Aug. 27, 1949, Serial No. 584,177. Published July 22, 1952. Class 46.

565,875. Self-Rising Wheat Flour. Pfeffer Milling Company, Lebanon, Ill.
Filed Sept. 6, 1949, Serial No. 584,508. Published Sept. 18, 1951. Class 46.

565,876. Chemicals for General Use in the Industrial Arts, Etc. Kay-Fries Chemicals, Inc., West Haverstraw, N. Y.
Filed Sept. 14, 1949, Serial No. 584,815. Published July 22, 1952. Class 6.

565,877. Beer. Blatz Brewing Company, Milwaukee, Wis.
Filed Sept. 15, 1949, Serial No. 584,851. CONCURRENT USE. Published July 15, 1952. Class 48.

565,878. Memo Pads, Pencils, Writing Pens, Telephone Indexes, Desk Calendars, Letter Openers, Paper Clips, Clip Pads, and Paper Weights. Brown & Bigelow, St. Paul, Minn.
Filed Sept. 26, 1949, Serial No. 585,310. Published July 22, 1952. Class 37.

565,879. Pharmaceutical Preparation for the Relief of Pain and Discomforts Due to Rheumatism, Neuralgia, and Minor Nervous Disorders. Dexter Laboratories, New York, N. Y.
Filed Sept. 27, 1949, Serial No. 585,372. Published July 8, 1952. Class 18.

565,880. Variable Speed Pulley Drive Units. James McEwan, doing business under the style and name of Max Manufacturing Company, San Jose, Calif.
Filed Sept. 30, 1949, Serial No. 585,595. Published July 8, 1952. Class 23.

565,881. Packages of Wooden Dowels. Dowelcraft Company, Grand Rapids, Mich.
Filed Nov. 16, 1949, Serial No. 587,855. Published July 29, 1952. Class 12.

565,882. Electrical Batteries—Namely, Storage Batteries or Dry Cell Batteries and Dry Cells. Hellesens Enke & V. Ludvigsen A/S, Copenhagen, Denmark.
Filed Nov. 21, 1949, Serial No. 588,135. Published July 15, 1952. Class 21.

565,883. Charts and Tables Prepared According to Information Furnished by Science or Industry and Enabling To Obtain the Solution of Problems Otherwise Necessitating Long and Difficult Calculations. Société Omaro, Paris, France.
Filed Oct. 1, 1949, Serial No. 588,829. Published July 22, 1952. Class 38.

565,884. Nail Enamel, Lipsticks, Face Rouge, Face Powder, Liquid Makeup, Cake Makeup, and Lotions. Revlon Products Corporation, New York, N. Y.
Filed Dec. 17, 1949, Serial No. 589,531. Published July 22, 1952. Class 51.

565,885. Coffee and Canned Corn. American Stores Company, Philadelphia, Pa.
Filed Dec. 21, 1949, Serial No. 589,698. Published July 22, 1952. Class 46.

565,886. Identification Forms Removably Insertable in Holders Worn About the Wrist or Ankle. Belle Anderson, Chicago, Ill.
Filed Jan. 3, 1950, Serial No. 590,250. Published July 15, 1952. Class 37.

565,887. Re-usable Imitation Chamois Made of Cellulose Paper, Sold in Sheets for Uses in Wiping and Cleaning Glass, Metal, and Wood Surfaces. The D. C. May Co., Durham, N. C.
Filed Jan. 10, 1950, Serial No. 590,606. Published July 15, 1952. Class 37.

565,888. Electrically Operated Floor Lamp. Imperial Lamp and Shade Co., Philadelphia, Pa.
Filed Feb. 3, 1950, Serial No. 591,930. Published July 15, 1952. Class 21.

565,889. Cheese. Pollio Dairy Products Corporation, Brooklyn, N. Y.
Filed Feb. 17, 1950, Serial No. 592,659. Published July 22, 1952. Class 46.

565,890. Neutralizing Cream Solution for Use in Connection With Permanent Waving of Hair. Artistic Beauty Products Company, Los Angeles, Calif.
Filed Mar. 13, 1950, Serial No. 593,854. Published July 22, 1952. Class 51.

565,891. Herbicides, Insecticides, and Fungicides. Monsanto Chemical Company, St. Louis, Mo.
Filed Mar. 22, 1950, Serial No. 594,392. Published Aug. 5, 1952. Class 6.

565,892. Welding Composition. G. W. Smith & Sons, Inc., Dayton, Ohio.
Filed Mar. 22, 1950, Serial No. 594,407. Published Aug. 5, 1952. Class 6.

565,893. Perforatable Paper Tapes and Copy Paper for Automatic Composing Machines, Typewriters, and Letter Writers. Commercial Controls Corporation, Rochester, N. Y.
Filed Mar. 31, 1950, Serial No. 594,951. Published July 29, 1952. Class 37.

565,894. Control for a Magnetic Sound Recording and Reproducing Device—Namely, a Solenoid for Starting and Stopping the Movement of the Record Member. Magnetic Recording Industries, Ltd., New York, N. Y.
Filed Apr. 10, 1950, Serial No. 595,506. Published July 22, 1952. Class 21.

565,895. Cat Food. Gaines Animal Foods Limited, Ruislip, England.
Filed Apr. 12, 1950, Serial No. 595,599. Published July 29, 1952. Class 46.

565,896. Laces, Embroideries, and Narrow Woven Fabrics, All in the Nature of Findings Intended To Be Utilized in the Fabrication of Clothing and Piece Goods. The American Fabrics Company, Bridgeport, Conn.
Filed Apr. 19, 1950, Serial No. 595,929. Published June 24, 1952. Class 40.

565,897. Fountain Pens, Mechanical Pencils, and Ball Point Pens. United States Pen Company, Inc., New York, N. Y.
Filed Apr. 22, 1950, Serial No. 596,311. Published May 20, 1952. Class 37.

565,898. Smokers' Accessories, Particularly Ash Trays. McDonald Products Corporation, Buffalo, N. Y.
Filed Apr. 29, 1950, Serial No. 596,611. Published Aug. 5, 1952. Class 8.

565,899. Cellulose Wrapping Paper. Newark Paraffine & Parchment Paper Co., Newark, N. J.
Filed May 9, 1950, Serial No. 597,159. Published Nov. 13, 1951. Class 37.

565,900. Home Laundry Appliances—Namely, Washing Machines. Appliance Manufacturing Company, Alliance, Ohio.
Filed May 16, 1950, Serial No. 597,485. Published June 24, 1952. Class 24.

565,901. Cures for Meat Products Composed of Sodium Chloride, Dextrose, Sodium Nitrate, and Sodium Nitrite; Emulsifiers for Meat Products Composed of Pure Vegetable Gums, Dextrose, and Salt; and Seasonings for Meat Products. Meat Industry Suppliers, Inc., Chicago, Ill.
Filed May 19, 1950, Serial No. 597,769. Published July 22, 1952. Class 46.

565,902. Pesticides, Embracing Insecticides, Fungicides, Herbicides, and Rodenticides. Wilson & Toomer Fertilizer Co., Jacksonville, Fla.
Filed May 22, 1950, Serial No. 597,925. Published Aug. 5, 1952. Class 6.

565,903. Indicating Dials for Manually Actuated Rotary Electric Switches. The Tappan Stove Company, Mansfield, Ohio.
Filed May 23, 1950, Serial No. 597,982. Published July 8, 1952. Class 21.

565,904. Deodorant for Household Use. Walter Vande Mark, doing business as Di-De-O Co., Detroit, Mich.
Filed June 5, 1950, Serial No. 598,620. Published Aug. 5, 1952. Class 6.

565,905. Letterheads, Correspondence, and Mailing Envelopes, Blank Billheads, Blank Invoices, Partially Printed Shipping Labels, and Partially Printed Record Forms. Mail Order Printing Company, Detroit, Mich.
Filed June 7, 1950, Serial No. 598,736. Published July 8, 1952. Class 37.

565,906. Packaging Divider or Pad Made of Corrugated Paper. Sherman Paper Products Corporation, Newton, Mass.
Filed June 16, 1950, Serial No. 599,267. Published May 20, 1952. Class 37.

565,907. Synthetic Waxes. Mamaroneck Chemical Corporation, Mamaroneck, N. Y.
Filed June 27, 1950, Serial No. 599,835. Published Aug. 5, 1952. Class 6.

565,908. Paraformaldehyde. Heyden Chemical Corporation, New York, N. Y.
Filed June 29, 1950, Serial No. 599,947. Published Aug. 5, 1952. Class 6.

565,909. Sodium Salicylate. Heyden Chemical Corporation, New York, N. Y.
Filed June 29, 1950, Serial No. 599,948. Published Aug. 5, 1952. Class 6.

565,910. Hand Mirrors, Wall Mirrors, and Mirrors Used in Connection With Home Furniture. Hamilton Glass Company, Inc., Chicago, Ill.
Filed July 1, 1950, Serial No. 600,131. Published Aug. 5, 1952. Class 32.

565,911. Canned Corned Beef. International Products Corporation, New York, N. Y.
Filed July 21, 1950, Serial No. 601,050. Published July 22, 1952. Class 46.

565,912. Electrical Sound Reproducing, Recording, and Amplifying Apparatus, Etc. Cosmocord Limited, Enfield, England.
Filed July 22, 1950, Serial No. 601,097. Published Aug. 5, 1952. Class 21.

565,913. Household Furniture — Namely, Chair Side Tables, Coffee Tables, Etc. The Weiman Company, Rockford, Ill.
Filed July 27, 1950, Serial No. 601,346. Published Aug. 5, 1952. Class 32.

565,914. Fresh Apples and Peaches. Paul J. Madigan, doing business as Hoosierland Orchards Co., Anderson, Ind.
Filed Aug. 1, 1950, Serial No. 601,551. Published July 29, 1952. Class 46.

565,915. Hand Operated Compression Sprayers Used To Atomize Fly Oils, Soluble Insecticides, Fungicides, Weed Killers; Also Used To Spray Deodorants, and Any Light to Heavy Sediment-Free Liquid. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed Aug. 2, 1950, Serial No. 601,626. Published July 22, 1952. Class 23.

565,916. Fastenings, Fittings, and Attachments for Wire, Wire Strand, or Rope—Namely, Clamps, Clips, Grommets, Hooks, Shackles, Sockets, Thimbles, and Turnbuckles. John A. Roebling's Sons Company, Trenton, N. J.
Filed Aug. 4, 1950, Serial No. 601,754. Published Aug. 12, 1952. Class 13.

565,917. Hair Ointment for Removing Dandruff and Bringing Back the Natural Lustre of the Hair. Eula M. Johnson, Philadelphia, Pa.
Filed Aug. 18, 1950, Serial No. 602,404. Published July 22, 1952. Class 18.

565,918. Board Games Containing the Illustration of an Array of Playing Cards Adapted To Be Covered by Cards Dealt From a Playing Card Deck. Kardigan Company, Summit, Ill.
Filed Aug. 30, 1950, Serial No. 602,955. Published July 29, 1952. Class 22.

565,919. Electrically Heated Grills Used in the Preparation of Meats for Sandwiches. Birdell B. Lowe, Richmond, Ind.
Filed Sept. 18, 1950, Serial No. 603,693. Published July 29, 1952. Class 21.

565,920. Mops and Mop Heads. Piedmont Mop Company, Incorporated, Charlotte, N. C.
Filed Sept. 26, 1950, Serial No. 604,029. Published Aug. 12, 1952. Class 29.

565,921. Medicated Ointment. Colin Pharmacal Co., Inc., Long Island City, N. Y.
Filed Sept. 27, 1950, Serial No. 604,074. Published July 8, 1952. Class 18.

565,922. Upholstered Furniture — Namely, Sofas, Sectional Sofas, Chairs, Davenports, Etc. Kroehler Mfg. Co., Naperville, Ill.
Filed Sept. 29, 1950, Serial No. 604,206. Published Aug. 5, 1952. Class 32.

565,923. Antacid Powder for Gastric Disturbances. Theodore E. Gaetz, doing business under the name and style of L. C. Q. Drug Products Company, Worcester, Mass.
Filed Oct. 20, 1950, Serial No. 605,209. Published July 8, 1952. Class 18.

565,924. Electric Lighting Fixtures. Gotham Lighting Corporation, Long Island City, N. Y.
Filed Oct. 27, 1950, Serial No. 605,477. Published Aug. 5, 1952. Class 21.

565,925. Mosquito Immunizing Agent Sold in the Form of Pills, Etc. Broemmel Pharmaceuticals, San Francisco, Calif.
Filed Nov. 1, 1950, Serial No. 605,715. Published July 8, 1952. Class 18.

565,926. Drawing and Tracing Papers. Keuffel & Esser Company, Hoboken, N. J.
Filed Nov. 2, 1950, Serial No. 605,800. Published July 22, 1952. Class 37.

565,927. Liquid Preparation for Cold Discomforts, Coughs, Aches, Also Contains Laxative Ingredients. Dacus Drug Company, Inc., Portageville, Mo.
Filed Nov. 3, 1950, Serial No. 605,847. Published July 8, 1952. Class 18.

565,928. Non-Electric Hair Curlers. J. D. Banting, doing business as Cosmopolitan Cosmetics, Amsterdam, Netherlands.
Filed Nov. 14, 1950, Serial No. 606,361. Published July 1, 1952. Class 40.

565,929. Graphite Base Paint. General Paint Corporation, San Francisco, Calif.
Filed Nov. 14, 1950, Serial No. 606,375. Published July 8, 1952. Class 16.

565,930. Combination Storm and Screen Windows. The F. C. Russell Company, Cleveland, Ohio.
Filed Nov. 15, 1950, Serial No. 606,441. Published July 22, 1952. Class 12.

565,931. Canned Pineapple. Baldwin Packers, Ltd., Honolulu, Territory of Hawaii.
Filed Nov. 28, 1950, Serial No. 606,998. Published July 22, 1952. Class 46.

565,932. Electric Lamps. Thomas J. Collings, New York, N. Y.
Filed Nov. 30, 1950, Serial No. 607,121. Published July 29, 1952. Class 21.

565,933. Hassocks. Protection Products Co., Chicago, Ill.
Filed Nov. 30, 1950, Serial No. 607,140. Published Aug. 5, 1952. Class 32.

565,934. Crochet Hooks and Knitting Needles. C. J. Bates & Son, Chester, Conn.
Filed Dec. 2, 1950, Serial No. 607,213. Published May 27, 1952. Class 40.

565,935. Cheese. Ostefabriken Buko Aktieselskab, Vordingborg, Denmark.
Filed Dec. 9, 1950, Serial No. 607,514. Published July 22, 1952. Class 46.

565,936. Solutions of Formaldehyde and Butyl Alcohol for Use Principally in the Manufacture of Synthetic Resins. Heyden Chemical Corporation, New York, N. Y.
Filed Dec. 13, 1950, Serial No. 607,629. Published July 8, 1952. Class 6.

565,937. Medical Preparation in Tablet Form for the Treatment of Rheumatism, Asthma, Paralysis, Insomnia, Sinus, Colds, Nervousness, Arthritis, Pleurisy, Nasal Clogging. Abelino Seoane, Phoenix, Ariz.
Filed Dec. 13, 1950, Serial No. 607,695. Published July 22, 1952. Class 18.

565,938. Butter, Cottage Cheese, Ice Cream Mix, Custard Mix and Sherbet Mix, Cheddar Cheese, Sweetened and Plain Condensed Skim Milk. Honeoye Falls Cream Products Co., Inc., Honeoye Falls, N. Y.
Filed Dec. 18, 1950, Serial No. 607,817. Published July 29, 1952. Class 46.

565,939. Umbrellas, Parasols, and Parts of and Fittings for All Such Goods. John William Forsyth, doing business under the firm name and style of John Forsyth and Company, Glasgow, Scotland.
Filed Dec. 28, 1950, Serial No. 608,154. Published June 24, 1952. Class 41.

565,940. Apple Juice. Apple Concentrates, Inc., West Concord, Mass.
Filed Dec. 30, 1950, Serial No. 608,232. Published July 22, 1952. Class 46.

565,941. Publication Published Daily. Northwest Publications, Inc., St. Paul, Minn.
Filed Jan. 2, 1951, Serial No. 608,284. Published Aug. 12, 1952. Class 38.

565,942. Publication Published Daily. Northwest Publications, Inc., St. Paul, Minn.
Filed Jan. 2, 1951, Serial No. 608,285. Published Aug. 12, 1952. Class 38.

565,943. Liquid Anti-Histaminic Preparation Used in Relief of Coughs Due to Colds, Asthma, Allergies, and Excessive Smoking. Preston Laboratories, Inc., doing business under the style name of The Thenylhist Co., Chicago, Ill.
Filed Jan. 4, 1951, Serial No. 608,380. Published July 22, 1952. Class 18.

565,944. Triple Sulfonamide Preparation. Abbott Laboratories, North Chicago, Ill.
Filed Feb. 9, 1951, Serial No. 609,836. Published July 22, 1952. Class 18.

565,945. Capacitors. Vitramon Incorporated, Easton and Stepney, Conn.
Filed Feb. 1, 1951, Serial No. 609,521. Published July 8, 1952. Class 21.

565,946. Chewing Gum. Frank H. Fleer Corporation, Philadelphia, Pa.
Filed Jan. 31, 1951, Serial No. 609,442. Published July 22, 1952. Class 46.

565,947. Therapeutic Preparation for Use as an Analgesic, Anesthetic, Hypnotic, Sedative, and Sleep-Producing Agent. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Jan. 24, 1951, Serial No. 609,211. Published July 8, 1952. Class 18.

565,948. Vitamin Preparation. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Jan. 24, 1951, Serial No. 609,208. Published July 8, 1952. Class 18.

565,949. Drawing Paper and Bristol Board; Tracing Cloths; Tracing Papers; Etc. The Frederick Post Company, Chicago, Ill.
Filed Jan. 24, 1951, Serial No. 609,174. Published Aug. 5, 1952. Class 37.

565,950. Adjustable Swinging Arm, Used as an Attachment for Standard Desk Type Telephone Sets, Serving To Support, by Itself, Etc. W. L. Woempner, San Francisco, Calif.
Filed Jan. 19, 1951, Serial No. 609,018. Published Aug. 5, 1952. Class 21.

565,951. Frozen Coffee Concentrate. Schroeder Products Company, Inc., Woburn, Mass.
Filed Jan. 6, 1951, Serial No. 608,476. Published July 22, 1952. Class 46.

565,952. Vitamin in Soya Lecithin Base in Capsule Form. Associated Concentrates, Inc., New York and Woodside, N. Y.
Filed Jan. 13, 1951, Serial No. 608,736. Published July 8, 1952. Class 18.

565,953. Canned Salmon, Canned Tuna Fish, and Canned Crabmeat. Columbia River Packers Association, Inc., Astoria, Oreg.
Filed Jan. 15, 1951, Serial No. 608,782. Published July 29, 1952. Class 46.

565,954. Canned Salmon, Canned Tuna Fish, and Canned Crabmeat. Columbia River Packers Association, Inc., Astoria, Oreg.
Filed Jan. 15, 1951, Serial No. 608,783. Published July 29, 1952. Class 46.

565,955. Tablets for the Relief of Pain of Simple Headache, Minor Neuralgia, Muscular Aches, and Discomfort of Normal Menstrual Period. The Norwich Pharmacal Company, Norwich, N. Y.
Filed Jan. 19, 1951, Serial No. 608,998. Published July 8, 1952. Class 18.

565,956. Weed-Killer and Insecticide. Northwest Chemical, Inc., Yakima, Wash.
Filed Feb. 14, 1951, Serial No. 610,089. Published Aug. 5, 1952. Class 6.

565,957. Primary and Secondary Batteries. Societe des Accumulateurs Fixes & de Traction (Société Anonyme), Romainville (Seine), France.
Filed Feb. 14, 1951, Serial No. 610,107. Published Aug. 5, 1952. Class 21.

565,958. Canned Evaporated Milk. White House Milk Company, Inc., New York, N. Y.
Filed Feb. 15, 1951, Serial No. 610,154. Published Jan. 15, 1952. Class 46.

565,959. Electrical Grounding Rods. St. Louis Lightning Protection Co., St. Louis, Mo.
Filed Feb. 16, 1951, Serial No. 610,189. Published Aug. 5, 1952. Class 21.

565,960. Evacuants. American Cyanamid Company, New York, N. Y.
Filed Feb. 21, 1951, Serial No. 610,355. Published July 8, 1952. Class 18.

565,961. Ball-Point Pens. Frawley Corporation, San Francisco, Calif.
Filed Feb. 24, 1951, Serial No. 610,495. Published Dec. 11, 1951. Class 37.

565,962. Rolls of Air Filter Paper Used for Mechanical Dry-Type Ventilating Air Filters of the Portable Cell, Foldable Frame, and Stationary Pocket Types. American Air Filter Company, Inc., Louisville, Ky.
Filed Mar. 1, 1951, Serial No. 610,657. Published May 20, 1952. Class 37.

565,963. Pictures of Biblical Characters and Scenes To Be Cut-Out and Used for Educational Purposes. Designed Products, Inc., Oak Park, Ill.
Filed Mar. 3, 1951, Serial No. 610,783. Published Aug. 12, 1952. Class 38.

565,964. Molded Plastic Electrical Parts—Namely, Condenser Cans, Condenser Can End Caps, Etc. P. R. Mallory & Co., Inc., Indianapolis, Ind.
Filed Mar. 6, 1951, Serial No. 610,917. Published July 15, 1952. Class 21.

565,965. Printing and Writing Paper. Tileston and Hollingsworth Company, Boston, Mass.
Filed Mar. 8, 1951, Serial No. 611,050. Published July 1, 1952. Class 37.

565,966. Dress Shields Attached to a Bodice, and Dress Shields. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Feb. 15, 1951, Serial No. 611,057. Published July 29, 1952. Class 40.

565,967. Waist Band Devices Made of Rubber for Holding Garments in Position on the Wearer. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Feb. 15, 1951, Serial No. 611,060. Published June 24, 1952. Class 40.

565,968. Dress Shields. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Feb. 15, 1951, Serial No. 611,061. Published July 29, 1952. Class 40.

565,969. Dress Shields. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Feb. 15, 1951, Serial No. 611,062. Published July 29, 1952. Class 40.

565,970. Dress Shields. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Feb. 15, 1951, Serial No. 611,063. Published July 29, 1952. Class 40.

565,971. Electrically Operated Lawn Edging Machines of the Rotary Cutter Type. Edwin F. Walker, doing business as Whip-it Company, Dallas, Tex.
Filed Mar. 10, 1951, Serial No. 611,159. Published June 24, 1952. Class 23.

565,972. Foundry Flasks Including Dowel Pins and Flask Bars and Follower Plates for Grease Guns, Vending Machine Cases—Namely, the Outer Casing of the Machine Itself. Trucson Steel Company, Youngstown, Ohio.
Filed Mar. 12, 1951, Serial No. 611,204. Published July 15, 1952. Class 23.

565,973. Note Paper, Writing Paper, and Wrapping Paper. The Hart Vance Company, St. Louis, Mo.
Filed Mar. 12, 1951, Serial No. 611,206. Published July 15, 1952. Class 37.

565,974. Canned Salmon, Canned Tuna Fish, and Canned Crabmeat. Columbia River Packers Association, Inc., Astoria, Oreg.
Filed Mar. 16, 1951, Serial No. 611,407. Published July 22, 1952. Class 46.

565,975. Radio and Television Receivers. Interseas Electronic Co., Inc., New York, N. Y.
Filed Mar. 16, 1951, Serial No. 611,428. Published Aug. 5, 1952. Class 21.

565,976. Seats, Chairs, Settees, and Structural Parts Thereof. Harris & Tyler Limited, London, England.
Filed Mar. 21, 1951, Serial No. 611,607. Published Aug. 5, 1952. Class 32.

565,977. Soaps. Annie Oakley Enterprises, Los Angeles, Calif., assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif., a corporation of California.
Filed Mar. 28, 1951, Serial No. 611,911. Published Aug. 5, 1952. Class 52.

565,978. Dress Shields. I. B. Kleinert Rubber Company, New York, N. Y.
Filed Feb. 15, 1951, Serial No. 612,051. Published June 24, 1952. Class 40.

565,979. Liquid Hair Shampoo. Takara Laboratories Corporation, doing business under the name Takara Laboratories, Hollywood, Calif.
Filed Apr. 5, 1951, Serial No. 612,280. Published Aug. 5, 1952. Class 52.

565,980. Box Wrenches, Combination Box and Open End Wrenches, Open End Wrenches, "Stillson" Pipe Wrenches, Pliers, Automotive Pliers, Rim Wrenches, Tire Irons, and Valve Lifting Tools. Lectrolite Corporation, Defiance, Ohio.
Filed Apr. 9, 1951, Serial No. 612,403. Published June 24, 1952. Class 23.

565,981. Internal Combustion Engines of the Piston and Gas Turbine Types and Parts Thereof. Fairchild Engine and Airplane Corporation, Farmingdale, N. Y.
Filed Apr. 10, 1951, Serial No. 612,451. Published July 8, 1952. Class 23.

565,982. Wrapping Twine, Single and Plied, in Balls, Reels, and Coils Made From the Mexican Sisal Plant (*Agave sisalana*) and the Henequen Plant (*Agave fourcroydes*). Dan H. Shield Cordage Company, Chicago, Ill.
Filed Apr. 13, 1951, Serial No. 612,628. Published Aug. 5, 1952. Class 7.

565,983. Musical Publications, Published in a Series. David Gornston, New York, N. Y.
Filed Apr. 16, 1951, Serial No. 612,688. Published July 29, 1952. Class 38.

565,984. Wood Tables, Chairs, Cabinets, and Wood Chests for Storage of Blankets and Other Household Goods. Anchor Sales Corp., Brooklyn, N. Y.
Filed Apr. 23, 1951, Serial No. 612,987. Published Aug. 5, 1952. Class 32.

565,985. Vanilla Beans and Tonka Beans Used for Food Flavoring Purposes; Etc. Dodge & Olcott, Inc., New York, N. Y.
Filed Apr. 24, 1951, Serial No. 613,057. Published July 22, 1952. Class 46.

565,986. Dehydrated and Sweetened Milk Whipping Preparation Consisting of Butterfat, Sucrose, Skim Milk Solids, and Stabilizers for General Culinary and Table Use. M & R Dietetic Laboratories, Inc., Columbus, Ohio.
Filed Apr. 27, 1951, Serial No. 613,227. Published July 22, 1952. Class 46.

565,987. Steel Grandstands and Bleachers. Steel, Inc., Scottdale, Ga.
Filed Apr. 27, 1951, Serial No. 613,245. Published July 22, 1952. Class 12.

565,988. Wrapping, Packaging, and Boxing Paper Impregnated With Rust-Inhibiting Chemicals. Nox-Rust Chemical Corporation, Chicago, Ill.
Filed May 2, 1951, Serial No. 613,418. Published Aug. 5, 1952. Class 37.

565,989. Wrapping, Packaging, and Boxing Paper Impregnated With Rust-Inhibiting Chemicals. Nox-Rust Chemical Corporation, Chicago, Ill.
Filed May 2, 1951, Serial No. 613,419. Published Aug. 5, 1952. Class 37.

565,990. Shoulder Pads. Michael James Mantell, Los Angeles, Calif.
Filed May 10, 1951, Serial No. 613,719. Published Nov. 27, 1951. Class 40.

565,991. Emery Aggregate and Crushed Emery for Use in Making Heavy-Duty Flooring. Walter Maguire Company, Inc., New York, N. Y.
Filed May 15, 1951, Serial No. 613,879. Published July 22, 1952. Class 12.

565,992. Pictures of Current News Interest for Reproduction in Newspapers—Namely, Pictures, Photographs, Prints, and Proofs Thereof Sold to Newspapers and Publishers. United Feature Syndicate, Inc., New York, N. Y.
Filed May 18, 1951, Serial No. 614,074. Published Aug. 12, 1952. Class 38.

565,993. Ice Cream Bars. Belvend Mfg. Co., Inc., Chicago, Ill.
Filed May 22, 1951, Serial No. 614,191. Published July 22, 1952. Class 46.

565,994. Ice Cream Bars. Belvend Mfg. Co., Inc., Chicago, Ill.
Filed May 22, 1951, Serial No. 614,192. Published July 22, 1952. Class 46.

565,995. Magnetic Tape Type Office Dictating Machines. V-M Corporation, Benton Harbor, Mich.
Filed May 25, 1951, Serial No. 614,373. Published July 29, 1952. Class 21.

565,996. Radio Antennas. Grayburne Corporation, New York, N. Y.
Filed May 29, 1951, Serial No. 614,502. Published July 29, 1952. Class 21.

565,997. Radio Antennas. Grayburne Corporation, New York, N. Y.
Filed May 29, 1951, Serial No. 614,503. Published July 22, 1952. Class 21.

565,998. Paper Headrest Covers. Hubbs Corporation, Baltimore, Md.
Filed May 29, 1951, Serial No. 614,506. Published July 8, 1952. Class 37.

565,999. Picture-Frame-Mounted Jig-Saw Cut-Outs. Wesley E. Doll, Nashville, Tenn.
Filed May 31, 1951, Serial No. 614,603. Published July 29, 1952. Class 38.

566,000. Device for Winding Decorative Ribbon Into Hanks. McGee & Willig, St. Paul, Minn.
Filed June 7, 1951, Serial No. 614,887. Published June 24, 1952. Class 40.

566,001. Bakery Products—Namely, Bread, Rolls, Cake, Cookies. Storck Baking Company, Inc., doing business under the name Storck's Baking Company, Parkersburg, W. Va.
Filed June 22, 1951, Serial No. 615,582. Published July 29, 1952. Class 46.

566,002. Anti-Skid Rubber Tread for Rubber Tires. Andy Bros. Tire Shop, Washington, Pa.
Filed June 23, 1951, Serial No. 615,599. Published Aug. 5, 1952. Class 35.

566,003. Sewing Needles, Such as Sharps, Darners, Embroidery, Betweens, Yarn, and Quilting Needles. Albert M. Goldstein, Inc., New York, N. Y.
Filed June 26, 1951, Serial No. 615,699. Published June 3, 1952. Class 40.

566,004. Periodical Publication. C. Mondavi & Sons, doing business as Charles Krug Winery, St. Helena, Calif.
Filed July 2, 1951, Serial No. 615,990. Published Aug. 12, 1952. Class 38.

566,005. Spray Mixtures Containing Household and Farm Germicide and Insecticide. Homestead Valve Manufacturing Company, Coraopolis, Pa.
Filed July 12, 1951, Serial No. 616,377. Published Aug. 5, 1952. Class 6.

566,006. Power-Driven Switch Mechanism Comprising a Plurality of Rotatable Cams and a Plurality of Electrical Switches Operated Thereby for Initiating or Terminating Electrical Operations in a Predetermined Sequence. Lear, Incorporated, Grand Rapids, Mich.
Filed July 12, 1951, Serial No. 616,379. Published July 8, 1952. Class 21.

566,007. Cellulose Esters and Ethers and Their Salts, Thermoplastic Substances Formed From Cellulose Nitrate and Camphor, Carboxy-Methyl-Cellulose, Artificial Plastics and Resins, Moulding Powders Made of Synthetic Resins. Algemene Kunstzijde Unie N. V., Arnhem, Netherlands.
Filed July 17, 1951, Serial No. 616,581. Published Aug. 5, 1952. Class 6.

566,008. Paper Napkins. Bernad Creations, Ltd., Mount Vernon, N. Y.
Filed July 18, 1951, Serial No. 616,619. Published July 8, 1952. Class 37.

566,009. Transformers or Ballasts for Supplying Energization to Gaseous Discharge Devices Such as Fluorescent Lamps. Sola Electric Company, Chicago, Ill.
Filed July 21, 1951, Serial No. 616,782. Published Aug. 5, 1952. Class 21.

566,010. Fastening Devices—Namely, Rivets and Sealing Pins. Aviation Developments Limited, London, England.
Filed July 25, 1951, Serial No. 616,892. Published Aug. 5, 1952. Class 13.

566,011. Acetic Acid, Acetone, 2-Amino-1-Butanol, 2-Amino-2-Ethyl-1, 3-Propanediol, Etc. Commercial Solvents Corporation, New York, N. Y.
Filed July 25, 1951, Serial No. 616,897. Published Aug. 5, 1952. Class 6.

566,012. Lead Pencils. Gulf States Sales Corporation, Birmingham, Ala.
Filed July 26, 1951, Serial No. 616,955. Published July 1, 1952. Class 37.

566,013. Ironing Cords, Electric Extension Cords, Electric Hotplates, Electric Food Mixers, Electric Irons, and Electric Toasters. John S. Regal & Son, Inc., Cambridge, Mass.
Original filed, act of 1946, Supplemental Register, July 31, 1951; amended to application, Principal Register, May 21, 1952, Serial No. 617,164. Published July 29, 1952. Class 21.

566,014. Synthetic Resinous Adhesives and Cements for Joining Together Synthetic Resin Materials, Wood, or Metal. Ciba Limited, Basel, Switzerland.
Filed Aug. 2, 1951, Serial No. 617,226. Published Aug. 5, 1952. Class 5.

566,015. Rotary Card-Index Files. Kinetic Novelty Co., Inc., New York, N. Y.
Filed Aug. 2, 1951, Serial No. 617,254. Published Aug. 5, 1952. Class 37.

566,016. Educational Publications and Drawings Issued From Time to Time Devoted to Teaching of Music. Naomi L. Rooney, doing business under the name of Naomi Rooney System, Portland, Oreg.
Filed Aug. 2, 1951, Serial No. 617,264. Published Aug. 12, 1952. Class 38.

566,017. Metal Tubes and Tubing. Helical Tube Corporation, East Orange, N. J.
Filed Aug. 7, 1951, Serial No. 617,399. Published Aug. 5, 1952. Class 13.

566,018. Portable Electric Drills and Portable Electric Drill Stands, Hand Supported Portable Electric Sanders, Hand Supported Portable Electric Valve Seat Grinders and Parts Thereof, Hand Supported Portable Electric Polishers, Generators, Cables, and Spark Plugs. Lindeteves Inc., New York, N. Y.
Filed Aug. 9, 1951, Serial No. 617,507. Published July 29, 1952. Class 21.

566,019. Chemical Preparation for Use in the Treatment of Metals and for Removing Rust and a Corrosion Preventive. The Walterisation Company Limited, Croydon, Surrey, England.
Filed Aug. 13, 1951, Serial No. 617,639. Published Aug. 5, 1952. Class 52.

566,020. Chemicals for Metal Finishing and Coloring, Hardening, Tempering, Rust Proofing Metals of All Kinds. Heatbath Corporation, Springfield, Mass.
Filed Aug. 17, 1951, Serial No. 617,796. Published July 29, 1952. Class 6.

566,021. Metal Cemetery Vases. Walter V. Rasmussen, doing business as Waller Manufacturing Company, Racine, Wis.
Filed Aug. 20, 1951, Serial No. 617,887. Published Aug. 12, 1952. Class 13.

566,022. Steel Racks With Brackets Adjustable as to Height, and Bracers, Clips, Spacers, and Washers Therefor, for Permanent Installation in Supporting Cables, Piping, and Other Elongate Objects. Edgar W. Baird, Jr., Philadelphia, Pa., assignor to Rakit Corporation, Inc., Philadelphia, Pa.
Filed Aug. 21, 1951, Serial No. 617,905. Published Aug. 5, 1952. Class 13.

566,023. Periodical. Ideal Publishing Corporation, New York, N. Y.
Filed Aug. 21, 1951, Serial No. 617,917. Published July 29, 1952. Class 38.

566,024. Garment Fasteners of the Hook-and-Eye Type. Hook-King Company, Chicago and Glencoe, Ill.
Filed Aug. 22, 1951, Serial No. 617,962. Published Aug. 5, 1952. Class 40.

566,025. Ball Point Pens. Ferber Corporation, Englewood, N. J.
Filed Aug. 29, 1951, Serial No. 618,208. Published May 20, 1952. Class 37.

566,026. Maps and Photographs. Fairchild Aerial Surveys, Inc., Los Angeles, Calif.
Filed Aug. 31, 1951, Serial No. 618,292. Published Aug. 12, 1952. Class 38.

566,027. Threaded Nut Type Fasteners and Attaching Sleeves, Separately and in Combination, Designed for Use Principally in Cavities in Pierceable Materials—Namely, Wood and Some Types of Plastics, Soft Metals, and Compositions, for Securing Bolt Type Fasteners. United-Carr Fastener Corporation, Cambridge, Mass.
Filed Sept. 1, 1951, Serial No. 618,329. Published Aug. 5, 1952. Class 13.

566,028. Threaded Nut Type Fasteners and Attaching Sleeves, Separately and in Combination, Designed for Use Principally in Cavities in Pierceable Materials—Namely, Wood and Some Types of Plastics, Soft Metals, and Compositions, for Securing Bolt Type Fasteners. United-Carr Fastener Corporation, Cambridge, Mass.
Filed Sept. 1, 1951, Serial No. 618,330. Published Aug. 5, 1952. Class 13.

566,029. Tannic Acid Compounds and Mud Conditioner Containing Tannic Acid. Victor E. Ekholm, doing business as Man-Tan Chemical Company, Dallas, Tex.
Filed Sept. 8, 1951, Serial No. 618,539. Published Aug. 5, 1952. Class 6.

566,030. Art Needlework Accessory—Namely, a Narrow Flat Pointed Plastic Tool for Use in Needlework. David Traum Company, Inc., New York, N. Y.
Filed Sept. 12, 1951, Serial No. 618,718. Published June 3, 1952. Class 40.

566,031. Chemical Substances Used in Industry for the Moth-Proofing of Textiles. Imperial Chemical Industries Limited, London and Millbank, London, England.
Filed Sept. 14, 1951, Serial No. 618,796. Published Aug. 5, 1952. Class 6.

566,032. Series of Cartoons Appearing in Daily and Sunday Newspapers. Field Enterprises, Inc., Chicago, Ill.
Filed Sept. 21, 1951, Serial No. 619,077. Published July 29, 1952. Class 38.

566,033. Electrical Apparatus—Namely, Table, Desk, Wall, and Floor Lamps. Laurel Lamp Manufacturing Co., Inc., Newark, N. J.
Filed Sept. 24, 1951, Serial No. 619,163. Published Aug. 5, 1952. Class 21.

566,034. Stationery, Consisting of Writing Papers and Correspondence Envelopes. T. V. Allen Company, Los Angeles, Calif.
Filed Sept. 28, 1951, Serial No. 619,324. Published May 20, 1952. Class 37.

566,035. Lock Nuts. Vance Lee Trent, Los Angeles, Calif.
Filed Sept. 29, 1951, Serial No. 619,413. Published Aug. 5, 1952. Class 13.

566,036. Fire Fighting Equipment, Specifically: Ladder Pipes, Turret Nozzles, Deck Pipes, Cellar Pipes, and Fire Gun Nozzles. The Wooster Brass Company, Wooster, Ohio, assignor to The Fyr-Fyter Company, Dayton, Ohio, a corporation of Ohio.
Filed Sept. 29, 1951, Serial No. 619,417. Published Aug. 12, 1952. Class 13.

566,037. Cane and Maple Syrup, Honey, Etc. Rudolph John Stenzel, doing business as R. Stenzel Food Products and R. Stenzel Pickle Products, San Leandro, Calif.
Filed Oct. 4, 1951, Serial No. 619,590. Published July 29, 1952. Class 46.

566,038. Periodical, Issued Annually. Wichita Allied Printing Trades Council, Wichita, Kans.
Filed Oct. 8, 1951, Serial No. 619,729. Published July 29, 1952. Class 38.

566,039. Resinous Plastics in the Form of Powders, Pellets and Granules. David Rome Associates, New York, N. Y.
Filed Oct. 9, 1951, Serial No. 619,771. Published Aug. 5, 1952. Class 6.

566,040. Ampules Containing Iodine, Sodium Cacodylate, Peptone, Agar, Sodium Bicarbonate and Benzyl Alcohol for Injection for the Relief of Bronchial Asthma and Angina Pectoris. The French-American Pharmaceuticals Co., Inc., New York, N. Y.
Filed Oct. 10, 1951, Serial No. 619,826. Published July 22, 1952. Class 18.

566,041. Printing Paper and Correspondence Envelopes. The Barton, Duer & Koch Paper Company, Baltimore, Md.
Filed Oct. 11, 1951, Serial No. 619,868. Published July 8, 1952. Class 37.

566,042. Typewriters. Bernhard Kerk, trading as Het Gooische Schrijfmachinehuis & Handelsonderneming "Beka," Hilversum, Netherlands.
Filed Oct. 11, 1951, Serial No. 619,882. Published July 22, 1952. Class 23.

566,043. Chemical Products for Photographic Purposes. Farbenfabriken Bayer, Leverkusen-Bayerwerk, Germany.
Filed Oct. 13, 1951, Serial No. 619,966. Published Aug. 5, 1952. Class 6.

566,044. Periodical Publication. Weekly Publications, Inc., New York, N. Y.
Filed Oct. 16, 1951, Serial No. 620,064. Published July 29, 1952. Class 38.

566,045. Shallow-Well Water Systems, Including a Pump, Motor, Tank, Air Volume Control Valve, Pressure Switch, Pressure Gage, and Necessary Piping, Sold as a Unit. Robbins & Myers, Inc., Springfield, Ohio.
Filed Oct. 17, 1951, Serial No. 620,109. Published July 15, 1952. Class 23.

566,046. Meat Slicing Machines. American Slicing Machine Company, Chicago, Ill.
Filed Oct. 18, 1951, Serial No. 620,134. Published June 24, 1952. Class 23.

566,047. Permanent Binders and String Binders. Bankers Box Company, Chicago, Ill.
Filed Oct. 18, 1951, Serial No. 620,136. Published July 1, 1952. Class 37.

566,048. Medicinal Preparation in Tablet Form, Useful as an Anti-Acid Tablet. R. J. Strasenburgh Company, Rochester, N. Y.
Filed Oct. 18, 1951, Serial No. 620,176. Published July 8, 1952. Class 18.

566,049. Chloral Hydrate Capsules. Fellows Medical Manufacturing Company, Inc., New York, N. Y.
Filed Oct. 19, 1951, Serial No. 620,203. Published July 22, 1952. Class 18.

566,050. Fresh Lettuce. Williams Farms Company, Inc., Oxnard, Calif., and Hereford, Tex.
Filed Oct. 20, 1951, Serial No. 620,283. Published Aug. 5, 1952. Class 46.

566,051. Legal Magazine Published Periodically. The American Law Book Company, Brooklyn, N. Y.
Filed Oct. 10, 1951, Serial No. 620,387. Published Aug. 5, 1952. Class 38.

566,052. Buttons of Non-Precious Metal. The Patent Button Company, Waterbury, Conn.
Filed Oct. 24, 1951, Serial No. 620,394. Published June 24, 1952. Class 40.

566,053. Buttons of Non-Precious Metal. The Patent Button Company, Waterbury, Conn.
Filed Oct. 24, 1951, Serial No. 620,434. Published June 24, 1952. Class 40.

566,054. Fabric Medallions To Be Attached to Various Garments, Such as Jackets, Blouses, Skirts, and Handbags. Nat. S. Flax, New York, N. Y.
Filed Oct. 26, 1951, Serial No. 620,498. Published July 1, 1952. Class 40.

566,055. Canned, Fresh, and Fresh Frozen Fruits and Vegetables, Canned and Bottled Tomato Juice, Etc. Haxton Foods, Inc., Oakfield, N. Y.
Filed Oct. 26, 1951, Serial No. 620,505. Published Aug. 5, 1952. Class 46.

566,056. Combs. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y.
Filed Oct. 30, 1951, Serial No. 620,669. Published June 24, 1952. Class 40.

566,057. Calcium Base, Pulp Type, Metallic Soap. The W. H. Fales Company, Brooklyn, N. Y.
Filed Nov. 6, 1951, Serial No. 620,913. Published Aug. 5, 1952. Class 6.

566,058. Calcium Base, Pulp Type, Metallic Soap Containing Mixed Vegetable and Animal Fatty Acids. The W. H. Fales Company, Brooklyn, N. Y.
Filed Nov. 6, 1951, Serial No. 620,914. Published Aug. 5, 1952. Class 6.

566,059. Printing Paper and Correspondence Envelopes. The Barton, Duer & Koch Paper Company, Baltimore, Md.
Filed Nov. 7, 1951, Serial No. 620,953. Published July 1, 1952. Class 37.

566,060. Smoking Tobacco in Packages, Cigarettes, Cigars, Snuff, and Chewing Tobacco. John E. Flood, doing business as Flood Pipe & Tobacco Company, Oklahoma City, Okla.
Filed Nov. 7, 1951, Serial No. 620,962. Published Aug. 5, 1952. Class 17.

566,061. Cation Exchange Materials Which Are Soluble in Water or Water Solutions of Alkalies, Especially for Solubilizing the Heavier Metals in Strongly Alkaline Solutions. Airose Chemical Company, Cranston, R. I.
Filed Nov. 10, 1951, Serial No. 621,096. Published Aug. 5, 1952. Class 6.

566,062. Fishing Reels and Fishing Lines. French Industries, Inc., San Francisco, Calif.
Filed Nov. 13, 1951, Serial No. 621,140. Published July 29, 1952. Class 22.

566,063. Lathe Tool Holder. Ernest P. Pierce, doing business as Zenith Tool Company, Cleveland, Ohio.
Filed Nov. 13, 1951, Serial No. 621,166. Published July 29, 1952. Class 23.

566,064. Cheese. Milco, Copenhagen, Denmark.
Filed Nov. 15, 1951, Serial No. 621,279. Published July 22, 1952. Class 46.

566,065. Gloss, Semi-Gloss, and Flat Paints, and Paint Enamels. Standard-Toch Chemicals, Inc., Staten Island, N. Y.
Filed Nov. 15, 1951, Serial No. 621,291. Published Aug. 5, 1952. Class 16.

566,066. Hog Cholera Vaccine. Norden Laboratories, Lincoln, Nebr.
Filed Nov. 17, 1951, Serial No. 621,373. Published July 8, 1952. Class 18.

566,067. Pillows. Joseph T Vlock, La Porte, Ind.
Filed Nov. 17, 1951, Serial No. 621,383. Published Aug. 5, 1952. Class 32.

566,068. Macaroni and Vermicelli. Fratelli Voiello, S. P. A., Genoa, Italy.
Filed Nov. 19, 1951, Serial No. 621,402. Published July 22, 1952. Class 46.

566,069. Artificial Fishing Lures. Hinks Manufacturing Co., Fort Dodge, Iowa.
Filed Nov. 19, 1951, Serial No. 621,404. Published July 29, 1952. Class 22.

566,070. Dolls. The Doll Shop, Bay City, Mich.
Filed Nov. 23, 1951, Serial No. 621,549. Published July 29, 1952. Class 22.

566,071. Dried Distillers' Grains Used in Livestock Feeds. Commercial Solvents Corporation, New York, N. Y.
Filed Nov. 24, 1951, Serial No. 621,618. Published July 22, 1952. Class 46.

566,072. Needle Threaders. Julian Seth Kahn, doing business as "Wink" Needle Threader Company, Brooklyn, N. Y.
Filed Nov. 26, 1951, Serial No. 621,670. Published June 24, 1952. Class 40.

566,073. Pickles. David Neiman, doing business as Finer Made Pickle Company, Los Angeles, Calif.
Filed Nov. 26, 1951, Serial No. 621,677. Published July 22, 1952. Class 46.

566,074. Pickles. David Neiman, doing business as Finer Made Pickle Company, Los Angeles, Calif.
Filed Nov. 26, 1951, Serial No. 621,678. Published July 22, 1952. Class 46.

566,075. Aromatic Chemicals Useful as Perfumes. Polak's Frutal Works Incorporated, Middletown, N. Y.
Filed Nov. 28, 1951, Serial No. 621,781. Published Aug. 5, 1952. Class 6.

566,076. Girdles and Panties. Blair Corset Company, Inc., Chicago, Ill.
Filed Nov. 29, 1951, Serial No. 621,808. Published Aug. 5, 1952. Class 39.

566,077. Venetian Blinds. Andrew Dutton Company, Boston, Mass.
Filed Nov. 30, 1951, Serial No. 621,875. Published July 29, 1952. Class 32.

566,078. Ladies' and Misses' Dresses, Dress Ensembles, Suits, Skirts, and Coats. Davidow, Inc. Sportswear, New York, N. Y.
Filed Dec. 1, 1951, Serial No. 621,959. Published Aug. 5, 1952. Class 39.

566,079. Periodical Publication Devoted to Owners of Home Freezers and Containing News Relating to Food Freezing, Nutrition, Recipes, Menus, Food Prices, Etc. Freshmaster Corporation, New York, N. Y.
Filed Dec. 1, 1951, Serial No. 621,961. Published Aug. 5, 1952. Class 38.

566,080. Periodical Publication Issued Monthly and Distributed to Applicant's Employees and to Others Interested in the Aircraft Industry. The Kaman Aircraft Corporation, Windsor Locks, Conn.
Filed Dec. 1, 1951, Serial No. 621,968. Published July 29, 1952. Class 38.

566,081. Insecticidal Compositions, Comprising an Active Ingredient in a Solvent. Burt Roberts, doing business as R. & S. Laboratories, New York, N. Y.
Filed Dec. 3, 1951, Serial No. 622,029. Published Aug. 5, 1952. Class 6.

566,082. Printing and Writing Paper. Badger Paper Mills, Inc., Peshtigo, Wis.
Filed Dec. 5, 1951, Serial No. 622,100. Published Aug. 5, 1952. Class 37.

566,083. Girdles. Lewel Manufacturing Co., Inc., New York, N. Y.
Filed Dec. 11, 1951, Serial No. 622,339. Published Aug. 5, 1952. Class 39.

566,084. Combination Shirt Board and Collar Support Fabricated From Paper. Loroco Industries, Inc., Reading, Ohio.
Filed Dec. 11, 1951, Serial No. 622,341. Published July 8, 1952. Class 37.

566,085. Amine Salts for Use in the Industrial Arts. Rohm & Haas Company, Philadelphia, Pa.
Filed Dec. 12, 1951, Serial No. 622,410. Published Aug. 5, 1952. Class 6.

566,086. Medicinal Preparation for the Treatment of Hypertension. Frederick Trout Company, Incorporated, Atlanta, Ga.
Filed Dec. 14, 1951, Serial No. 622,519. Published July 22, 1952. Class 18.

566,087. Upholstered Chairs and Davenports. Kroehler Mfg. Co., Naperville, Ill.
Filed Dec. 15, 1951, Serial No. 622,547. Published Aug. 5, 1952. Class 32.

566,088. Display Stand for Displaying Dolls. Mary E. Lewis, Brooklyn, N. Y.
Filed Dec. 17, 1951, Serial No. 622,602. Published Aug. 5, 1952. Class 32.

566,089. Preparation of Penicillin and Dihydrostreptomycin. Parke, Davis & Company, Detroit, Mich.
Filed Dec. 17, 1951, Serial No. 622,618. Published July 22, 1952. Class 18.

566,090. Books. Pocket Books, Inc., New York, N. Y.
Filed Dec. 17, 1951, Serial No. 622,621. Published Aug. 5, 1952. Class 38.

566,091. Preparation for the Treatment of Cough. E. R. Squibb & Sons, New York, N. Y.
Filed Dec. 17, 1951, Serial No. 622,630. Published July 22, 1952. Class 18.

566,092. Books. Almat Publishing Corporation, New York, N. Y.
Filed Dec. 20, 1951, Serial No. 622,703. Published July 29, 1952. Class 38.

566,093. Antiseptic Solution for Vaginal Irrigation and for the Treatment and Prevention of Vaginal Disorders. Holland-Rantos Company, Inc., New York, N. Y.
Filed Dec. 21, 1951, Serial No. 622,744. Published July 22, 1952. Class 18.

566,094. Paper Napkins. White-Washburne Company, Inc., Hinsdale, N. H.
Filed Dec. 21, 1951, Serial No. 622,764. Published July 29, 1952. Class 37.

566,095. Basketballs. The Sun Rubber Company, Barberton, Ohio.
Filed Dec. 26, 1951, Serial No. 622,858. Published July 29, 1952. Class 22.

566,096. Adhesives for Adhering Stripping or Lagging Tapes to Insulated Surfaces and for Adhering Fabrics to Other Fabrics or to Metal, Wood, or Glass. Benjamin Foster Company, Philadelphia, Pa.
Filed Dec. 27, 1951, Serial No. 622,888. Published Aug. 5, 1952. Class 5.

566,097. Smokers' Articles—Namely, Cigarette Boxes, Cigarette Canisters, and Ash Trays. Gorham Manufacturing Company, Providence, R. I.
Filed Dec. 27, 1951, Serial No. 622,891. Published July 29, 1952. Class 8.

566,098. Strip Glue for Dryer Felt Seams. Ida Hill, executrix of the estate of Harold N. Hill, deceased, doing business as H. N. Hill and Company, Philadelphia, Pa.
Filed Dec. 27, 1951, Serial No. 622,896. Published Aug. 5, 1952. Class 5.

566,099. Closures and Fasteners Made From Non-Precious Metals for Wearing Apparel, Etc. Koh-I-Noor Bilovec, Narodni Podnik, Bilovec, Czechoslovakia.
Filed Dec. 27, 1951, Serial No. 622,898. Published July 1, 1952. Class 40.

566,100. Non-Electrical Hair Curlers and Barrettes. H. Goodman & Sons, Inc., Jersey City, N. J., and New York, N. Y.
Filed Dec. 28, 1951, Serial No. 622,933. Published Aug. 5, 1952. Class 40.

566,101. Shotguns. Cody Sales Company, Chicago, Ill.
Filed Dec. 29, 1951, Serial No. 622,990. Published Aug. 5, 1952. Class 9.

566,102. Brassières. Wynton Brassiere Co. Inc., Brooklyn, N. Y.
Filed Dec. 31, 1951, Serial No. 623,034. Published Aug. 5, 1952. Class 39.

566,103. Nails. The Independent Nail and Packing Company, Bridgewater, Mass.
Filed Jan. 4, 1952, Serial No. 623,192. Published Aug. 12, 1952. Class 13.

566,104. Door Latches and Handles. Laboratory Equipment Corporation, St. Joseph, Mich.
Filed Jan. 4, 1952, Serial No. 623,197. Published Aug. 12, 1952. Class 13.

566,105. Women's and Misses' Dresses. Albert Rosenblatt & Sons, Inc., New York, N. Y.
Filed Jan. 5, 1952, Serial No. 623,257. Published Aug. 5, 1952. Class 39.

566,106. Nails. The Independent Nail and Packing Company, Bridgewater, Mass.
Filed Jan. 8, 1952, Serial No. 623,306. Published Aug. 12, 1952. Class 13.

566,107. Combination Wall Calendar and Filing Envelope. Wylie T. Van, doing business as W. T. Van Company, St. Paul, Minn.
Filed Jan. 9, 1952, Serial No. 623,381. Published Aug. 12, 1952. Class 38.

566,108. Electrical Circuit Connectors. Daniel Woodhead Company, Chicago, Ill.
Filed Jan. 11, 1952, Serial No. 623,494. Published Aug. 5, 1952. Class 21.

566,109. Flexibly Connected Collection of Ornamental Bells. S. S. Sarna, Inc., New York, N. Y.
Filed Jan. 21, 1952, Serial No. 623,851. Published Aug. 5, 1952. Class 13.

566,110. Traction Devices—in the Nature of Hook-Like Members for Application to the Tires—for Vehicle Wheels. Howard Products Incorporated, Worcester, Mass.
Filed Jan. 22, 1952, Serial No. 623,888. Published Aug. 5, 1952. Class 13.

566,111. Grip Clamp for Adjustably Joining Together the Ends of a Length of Rope Which Is Under Tension, Such as Clotheslines, and the Like. Matthew La Marca, Brooklyn, N. Y.
Filed Jan. 24, 1952, Serial No. 624,035. Published Aug. 12, 1952. Class 13.

566,112. Cartoons Published in Daily and Sunday Newspapers. Post-Hall Syndicate, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,148. Published July 22, 1952. Class 38.

566,113. Comic Strips Published in Daily and Sunday Newspapers. Post-Hall Syndicate, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,150. Published July 22, 1952. Class 38.

566,114. Comic Strips Published in Daily and Sunday Newspapers. Post-Hall Syndicate, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,151. Published July 22, 1952. Class 38.

566,115. Series of Cartoons or Comic Strips Published in Newspapers. Post-Hall Syndicate, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,152. Published July 22, 1952. Class 38.

566,116. Series of Cartoons or Comic Strips Published in Newspapers. Post-Hall Syndicate, Inc., New York, N. Y.
Filed Jan. 26, 1952, Serial No. 624,153. Published July 22, 1952. Class 38.

566,117. Newspaper Columns and Sections. Bulletin Company, Philadelphia, Pa.
Filed Jan. 31, 1952, Serial No. 624,327. Published Aug. 12, 1952. Class 38.

566,118. Drapery Rods and Carriers. The Eastern Venetian Blind Company, Baltimore, Md.
Filed Jan. 31, 1952, Serial No. 624,334. Published Aug. 12, 1952. Class 13.

566,119. Magazine Published Semi-Quarterly. Hotpoint Inc., Chicago, Ill.
Filed Jan. 31, 1952, Serial No. 624,337. Published Aug. 5, 1952. Class 38.

566,120. Umbrellas. Federated Department Stores, Inc., Cincinnati, Ohio.
Filed Feb. 1, 1952, Serial No. 624,405. Published July 8, 1952. Class 41.

566,121. Buckles for Adjustable Shoulder Straps. Maid-Rite Novelty Corp., New York, N. Y.
Filed Feb. 8, 1952, Serial No. 624,694. Published Aug. 5, 1952. Class 40.

566,122. Ladies', Misses', and Children's Textile Underwear. Pacific Undergarment Co. Inc., New York, N. Y.
Filed Feb. 8, 1952, Serial No. 624,700. Published Aug. 5, 1952. Class 39.

566,123. Household or Garden Gloves Made From Fabric, Plastic, Rubber, Rubber-Like Materials, or Fabric Gloves Coated With Plastic Material, Rubber, or Similar Materials. The Pioneer Rubber Company, Willard, Ohio.
Filed Feb. 9, 1952, Serial No. 624,757. Published Aug. 5, 1952. Class 39.

566,124. Set of Reference Books for Children. Standard Education Society, Chicago, Ill.
Filed Feb. 9, 1952, Serial No. 624,763. Published Aug. 12, 1952. Class 38.

566,125. Periodical Trade Publication. Hall Publishing Company, New York, N. Y.
Filed Jan. 30, 1952, Serial No. 625,318. Published Aug. 12, 1952. Class 38.

566,126. Phenolic Synthetic Resinous Binder for Use in Bonding Sand in Cores and Molds. Reichhold Chemicals, Inc., Detroit, Mich.
Filed Feb. 26, 1952, Serial No. 625,540. Published Aug. 5, 1952. Class 5.

566,127. Fountain Pens, Mechanical Pencils, and Ball Point Pens. John F. Sullivan, doing business under the name of Travelers Pen Company, New York, N. Y.
Filed Mar. 1, 1952, Serial No. 625,831. Published July 29, 1952. Class 37.

566,128. Paper Headrest Covers for Dental Chairs. Robert Distributing Company, New York, N. Y.
Filed Mar. 3, 1952, Serial No. 625,868. Published Aug. 5, 1952. Class 37.

566,129. Plate and Goggle Valves. Salem-Brosius, Inc., Pittsburgh and Sharpsburg, Pittsburgh, Pa.
Filed Mar. 10, 1952, Serial No. 626,219. Published Aug. 12, 1952. Class 13.

566,130. Musical Instruments — Namely, Trumpets, Trombones, Saxophones, Wood and Metal Clarinets, Flutes, and Accordions. L. & C. Mayers Co. Incorporated, New York, N. Y.
Filed Mar. 27, 1952, Serial No. 627,139. Published Aug. 5, 1952. Class 36.

566,131. Pianos. Estey Piano Corp., Bluffton, Ind.
Filed Mar. 29, 1952, Serial No. 627,259. Published Aug. 5, 1952. Class 36.

566,132. Pianos. Estey Piano Corp., Bluffton, Ind.
Filed Apr. 19, 1952, Serial No. 628,351. Published Aug. 5, 1952. Class 36.

Service Marks

566,133. Air Transportation of Passengers, Freight, and Mail. Western Air Lines, Inc., Los Angeles, Calif.
Original filed, act of 1905, Jan. 16, 1946; amended to application under act of 1946, Principal Register, Dec. 20, 1949, Serial No. 494,877. Published Aug. 5, 1952. Class 105.

566,134. Finishing of Textile Fabrics To Retard or Prevent the Slippage of Fibers in the Fabric. The United States Finishing Company, Norwich, Conn.
Filed Apr. 14, 1948, Serial No. 534,632. Published Aug. 5, 1952. Class 106.

566,135. Restaurant Services. Little Tavern Shops, Inc., Washington, D. C., and Baltimore, Md.
Filed Oct. 27, 1949, Serial No. 586,925. Published Aug. 5, 1952. Class 100.

566,136. Renting of Parcel Checking Lockers. American Locker Company, Inc., Boston, Mass.
Filed Dec. 28, 1949, Serial No. 590,003. Published Aug. 5, 1952. Class 105.

566,137. Finishing and Decorating Printed and Blank Sheet Paper and Paper Products Material of Others, Supplied by Customers, With Adhesively Held Trim of Flock, Tinsel, Beads, Spangles, and Like Substances. Velvetone Finishing Corporation, New York, N. Y.
Filed Feb. 23, 1950, Serial No. 592,954. Published Aug. 5, 1952. Class 106.

566,138. Automobile Cleaning and Polishing Service. H. D. T. Company Factors, Inc., White Plains, N. Y.
Filed May 5, 1950, Serial No. 596,915. Published Aug. 5, 1952. Class 103.

566,139. Photographic Services—Namely, the Developing and Printing of Films. Encore, Inc., Los Angeles and Hollywood, Calif.
Filed June 23, 1950, Serial No. 599,622. Published Aug. 5, 1952. Class 106.

566,140. General Banking Services—Namely, Savings, Checking, Loan, Correspondent, Investment, and Foreign Exchange Service. First National Bank in St. Louis, St. Louis, Mo.
Filed June 28, 1950, Serial No. 599,867. Published Aug. 5, 1952. Class 102.

566,141. General Advertising and Sales Promotional Services, Etc. Howard A. Gardner, doing business as Sales-Aide Service, Chicago, Ill.
Filed Sept. 5, 1950, Serial No. 603,155. Published Aug. 5, 1952. Class 101.

566,142. Employment Agency Services. Phyllis F. Hart, doing business as Detroit Bond and Reference Co., Detroit, Mich.
Filed Mar. 27, 1951, Serial No. 611,843. Published Aug. 5, 1952. Class 101.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

566,143. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Jackson and Church Company, Saginaw, Mich. Original filed, act of 1946, Principal Register, Feb. 2, 1949; amended to application, Supplemental Register, Jan. 12, 1950, Serial No. 573,185.

PowrRated

For Wood, Coal, and Oil Burning Furnaces for Use in House Heating.
Claims use since on or about Jan. 15, 1948.

566,144. (Class 29. Brooms, Brushes, and Dusters.) Solo-Horton Brush Company, Incorporated, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 6, 1949; amended to application, Supplemental Register, Apr. 3, 1952, Serial No. 576,723.

INSULATED

For Brushes — Namely, Painters' and Decorators' Brushes, Glue and Paste Brushes, and Bakers' Grease Brushes.
Claims use since Feb. 25, 1949.

566,145. (Class 21. Electrical Apparatus, Machines, and Supplies.) Robert W. McFarlin, doing business as Tap-A-Line, Milwaukee, Wis. Original filed, act of 1946, Principal Register, Apr. 16, 1949; amended to application, Supplemental Register, Nov. 2, 1951, Serial No. 577,279.

TAP-A-LINE

For Electrical Outlets Featured by Elongated Slots and Busbar Connectors To Receive Closely Spaced Appliance Plugs for Such Use in Modern Kitchens and the Like.
Claims use since May 20, 1948.

566,146. (Class 5. Adhesives.) Mid-States Gummed Paper Co., Chicago, Ill. Original filed, act of 1946, Principal Register, May 5, 1949; amended to application, Supplemental Register, July 17, 1952, Serial No. 578,274.

FOIL FRESH

For Gummed Paper Tape in Rolls.
Claims use since Apr. 11, 1949.

566,147. (Class 2. Receptacles.) Northwest Plastics, Inc., St. Paul, Minn. Original filed, act of 1946, Principal Register, June 6, 1949; amended to application, Supplemental Register, June 24, 1950, Serial No. 580,025.

DOUBLCUP

For Cups of Synthetic Plastic Material.
Claims use since April 21, 1949.

566,148. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Talon, Inc., Meadville, Pa. Original filed, act of 1946, Principal Register, Aug. 4, 1949; amended to application, Supplemental Register, Aug. 6, 1952, Serial No. 583,010.

SEAM-THIN

For Slide Fasteners.
Claims use since July 12, 1949.

566,149. (Class 7. Cordage.) McHutchison & Co., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 18, 1949; amended to application, Supplemental Register, Nov. 7, 1950, Serial No. 583,655.



For Paper Covered Wire Plant Ties.
Claims use since on or about June 16, 1949.

566,150. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Woodman Company, Inc., Avondale Estates, Ga. Original filed, act of 1946, Principal Register, Nov. 8, 1949; amended to application, Supplemental Register, Feb. 3, 1951, Serial No. 587,518.

KLO - SEAL

For Electrically Operated Machine for Closing and Heat Sealing Bags.
Claims use since Sept. 2, 1949.

566,151. (Class 2. Receptacles.) Maryland Paper Box Company, Baltimore, Md. Original filed, act of 1946, Principal Register, Dec. 20, 1949; amended to application, Supplemental Register, Feb. 23, 1951, Serial No. 589,665.

RIGID-SET

For Cardboard and Paper Boxes, Cases, Trays, and Shipping Cartons.
Claims use since Jan. 1, 1949.

566,152. (Class 21. Electrical Apparatus, Machines, and Supplies.) United Condenser Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 17, 1950; amended to application, Supplemental Register, Aug. 6, 1952, Serial No. 591,001.

MOLDTITE

For Condensers for Radio, Television, and Electronic Apparatus.
Claims use since Nov. 14, 1949.

566,153. (Class 4. Abrasives and Polishing Materials.) Queen Stove Works, Inc., Albert Lea, Minn. Original filed, act of 1946, Principal Register, Feb. 11, 1950; amended to application, Supplemental Register, Apr. 21, 1952, Serial No. 592,336.

Supersheen

Applicant claims ownership of Registration No. 541,804.
For Chips, Grains and Fines of Aluminum Oxide, Garnet, Emery, Feldspar, Quartz and Granite Used as Abrasives and Polishing Materials, for Lubricating Preparations of a Saponaceous Nature, Solutions of a Mild Alkaline Nature and/or Wetting Agents for Carrying Away the Dirt and Sluff, the Foregoing Materials Being Used for Polishing and Coloring Castings, Stampings and the Like in Tumbling Barrels.
Claims use since Oct. 16, 1948.

566,154. (Class 21. Electrical Apparatus, Machines, and Supplies.) Curtis Development & Mfg. Co., Milwaukee, Wis. Original filed, act of 1946, Principal Register, Mar. 4, 1950; amended to application, Supplemental Register, Dec. 24, 1951, Serial No. 593,401.

EVERLITE

For Electrically Lighted Frames for House Numbers and Parts Thereof.
Claims use since Nov. 1, 1934.

566,155. (Class 39. Clothing.) Catalina, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 13, 1950; amended to application, Supplemental Register, Mar. 17, 1951, Serial No. 593,858.

CONTURES

For Swim Suits, Swim Trunks, Sweaters, Sun Suits, Play Suits, Blouses, Brassières, Sport Shirts, and Knitted and Woven Outer Garments—Namely, Jackets, Coats and Vests for Men, Women and Children.
Claims use since Nov. 4, 1949.

566,156. (Class 39. Clothing.) A. L. Neiman Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 17, 1950; amended to application, Supplemental Register, Jan. 26, 1951, Serial No. 594,140.

DORSET

For Ladies' Coats and Suits.
Claims use since Jan. 3, 1950.

566,157. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Harry R. Frankle, doing business as Midwest Air Conditioning Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, Apr. 29, 1950; amended to application, Supplemental Register, Apr. 2, 1952, Serial No. 596,570.

Kool-Temp

For Domestic Air Conditioning Units.
Claims use since Apr. 3, 1949.

566,158. (Class 6. Chemicals and Chemical Compositions.) Miller Materials Company, Oakland, Calif. Original filed, act of 1946, Principal Register, May 11, 1950; amended to application, Supplemental Register, June 9, 1951, Serial No. 597,283.

MILLER
FOR YOUR OWN

For Stucco Colors.
Claims use since 1932.

566,159. (Class 21. Electrical Apparatus, Machines, and Supplies.) Ag Service Co., Floyd, Iowa. Original filed, act of 1946, Principal Register, May 17, 1950; amended to application, Supplemental Register, Apr. 23, 1951, Serial No. 597,567.

HOT SPARK

For Electrically Operated Moth Exterminators.
Claims use since Dec. 5, 1949.

566,160. (Class 21. Electrical Apparatus, Machines, and Supplies.) United Technical Laboratories, Morristown, N. J. Original filed, act of 1946, Principal Register, June 19, 1950; amended to application, Supplemental Register, Apr. 19, 1951, Serial No. 599,400.

KLIPZON

For Electrical Test Prods.
Claims use since December 1949.

566,161. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Home Comfort Mfg. Co., East Peoria, Ill. Original filed, act of 1946, Principal Register, Aug. 26, 1950; amended to application, Supplemental Register, Aug. 23, 1951, Serial No. 602,807.

MULTI-PITCH

For Louver Type Ventilators.
Claims use since May 31, 1950.

566,162. (Class 12. Construction Materials.) Texas Housing Company, Dallas, Tex. Original filed, act of 1946, Principal Register, Sept. 1, 1950; amended to application, Supplemental Register, Oct. 10, 1951, Serial No. 603,090.

TOWN & COUNTRY Homes

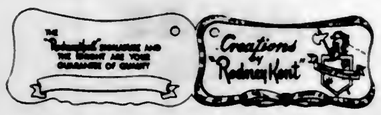
Applicant claims ownership of Registration No. 509,485.
For Prefabricated Houses Made of Wood.
Claims use since Apr. 15, 1947.

566,163. (Class 45. Soft Drinks and Carbonated Waters.) Fruto Beverage Company, Rockford, Ill. Original filed, act of 1946, Principal Register, Sept. 13, 1950; amended to application, Supplemental Register, May 17, 1952, Serial No. 603,480.



For Non-Alcoholic Maltless Carbonated Soft Drinks.
Claims use since Mar. 6, 1950.

566,164. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Krischer Metal Products Co., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Sept. 20, 1950; amended to application, Supplemental Register, May 1, 1951, Serial No. 603,798.



For Hammered Aluminum Ware Consisting of, Sugar and Creamer Sets, Rectangular Trays, Lazy Susans, Bowls, Candy Boxes, Butter and Cheese Dishes, Casseroles, Casserole Susans, Salad Bowls, Water Goblets, Bon-Bon Dishes, Sandwich Plates, Ice Buckets, Silent Butlers, Candy Baskets, Beverage Cooler Sets, Candy Dishes, Covered Butter Dishes, Brush Crumb Sets, Fruit Compote Dishes, Pitchers, Two Pier Utility Servers, Breakfast Spinner Sets, Jam Jars, of All Sizes, Dimensions and Shapes.
Claims use since Mar. 1, 1948.

566,165. (Class 49. Distilled Alcoholic Liquors.) Aage Emil Holm, doing business as Holm & Rahr, Copenhagen, Denmark. Original filed, act of 1946, Principal Register, Sept. 25, 1950; amended to application, Supplemental Register, Aug. 14, 1952, Serial No. 603,980.



Applicant claims as its mark for the goods described the particular shape of the bottles simulating the appearance of the Eiffel Tower in Paris, France. Applicant claims ownership of Danish Registration No. 1025/50, dated Aug. 26, 1950.
For Liqueurs, Brandy, Alcoholic Cocktails, and Alcoholic Aperitifs.

566,166. (Class 5. Adhesives.) Paste Company of America, Philadelphia, Pa. Original filed, act of 1946, Principal Register, Oct. 9, 1950; amended to application, Supplemental Register, July 28, 1952, Serial No. 604,660.

No SIZE

For Wall Paper Paste and Wall Size Eliminators.
Claims use since Nov. 11, 1949.

566,167. (Class 46. Foods and Ingredients of Foods.) Langendorf United Bakeries, Inc., San Francisco, Calif. Original filed, act of 1946, Principal Register, Nov. 14, 1950; amended to application, Supplemental Register, Aug. 18, 1952, Serial No. 606,383.

Wafer-ettes

For Crackers.
Claims use since Oct. 18, 1950.

566,168. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Lancaster Engineering Corporation, Lancaster, Pa. Original filed, act of 1946, Principal Register, Nov. 21, 1950; amended to application, Supplemental Register, June 28, 1951, Serial No. 606,709.

Duffin

For Machines for Grinding and Mixing Cattle Feed, and Disc Harrows.
Claims use since Feb. 24, 1949.

566,169. (Class 46. Foods and Ingredients of Foods.) SeaPak Corporation, St. Simons Island, Ga. Original filed, act of 1946, Principal Register, Nov. 21, 1950; amended to application, Supplemental Register, June 3, 1952, Serial No. 606,727.

SeaPak

For Frozen Fresh Seafoods—Namely, Shrimp, Fish Fillets, Scallops, Oysters, and Lobster Tails; Frozen Shore Dinners Consisting of Cooked Seafoods and Vegetables; and Frozen Ready-To-Eat Crab Cakes, Crab Patties, Corn Bread Sticks, Deviled Crabs, and Breaded Oysters.
Claims use since Aug. 10, 1949.

566,170. (Class 46. Foods and Ingredients of Foods.) SeaPak Corporation, St. Simons Island, Ga. Original filed, act of 1946, Principal Register, Nov. 21, 1950; amended to application, Supplemental Register, Jan. 2, 1952, Serial No. 606,728.



For Frozen Fresh Seafoods—Namely, Shrimp, Fish Fillets, Scallops, and Frozen Cooked Crab Patties, Crab Cakes, Deviled Crabs, Breaded Oysters, Lobster Tails, and Cooked Frozen Shore Dinners Consisting of Corn Bread Sticks, Seafoods and Vegetables.
Claims use since Aug. 10, 1949.

566,171. (Class 44. Dental, Medical, and Surgical Appliances.) The Burdick Corporation, Milton, Wis. Original filed, act of 1946, Principal Register, Dec. 6, 1950; amended to application, Supplemental Register, Aug. 5, 1952, Serial No. 607,313.

Rhythmic Constrictor

For Venous Occlusion Apparatus.
Claims use since Sept. 6, 1940.

566,172. (Class 50. Merchandise Not Otherwise Classified.) Adler Silhouette Letter Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 12, 1950; amended to application, Supplemental Register, Aug. 2, 1952, Serial No. 607,570.

"SECTIONAD"

For Detachable Letter Sign.
Claims use since July 27, 1950.

566,173. (Class 5. Adhesives.) White Adhesive Company, Inc., Newtonville, Mass. Original filed, act of 1946, Principal Register, Mar. 21, 1951; amended to application, Supplemental Register, Aug. 5, 1952, Serial No. 611,626.

SPEEDI-GLU

For Water-Dispersed Plastic Adhesives.
Claims use since Dec. 29, 1950.

566,174. (Class 39. Clothing.) Gerberich-Payne Shoe Co., Mount Joy, Pa. Original filed, act of 1946, Principal Register, Mar. 27, 1951; amended to application, Supplemental Register, July 18, 1952, Serial No. 611,837.

GERBERICH Boys' Shoes

The words "Boys' Shoes" are disclaimed.
For Boys' Shoes.
Claims use since July 12, 1948.

566,175. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Max Schwartz, doing business under the firm name and style of Max Schwartz Co., New York, N. Y. Original filed, act of 1946, Principal Register, July 10, 1951; amended to application, Supplemental Register, July 31, 1952, Serial No. 616,301.

LORD LESLIE

"Lord Leslie" is a fanciful name.
For Woolen and Rayon Piece Goods.
Claims use since May 1, 1951.

566,176. (Class 5. Adhesives.) The Ruberoid Co., Bound Brook, N. J., and New York, N. Y. Original filed, act of 1946, Principal Register, July 12, 1951; amended to application, Supplemental Register, July 23, 1952, Serial No. 616,536.

SHINGLE-GRIP

For Adhesive for Sealing Butts of Asphalt Shingles.
Claims use since about May 23, 1951.

566,177. (Class 29. Brooms, Brushes, and Dusters.) Eugene R. Rushton, doing business under the name Rub 'N' Rinse Co., Charlottesville, Va. Original filed, act of 1946, Principal Register, July 27, 1951; amended to application, Supplemental Register, Aug. 7, 1952, Serial No. 617,059.

RUB 'N' RINSE

For Impregnated Cloths for Cleaning and Polishing Metals.
Claims use since Apr. 17, 1951.

566,178. (Class 39. Clothing.) Artistic Foundations, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 4, 1951; amended to application, Supplemental Register, Aug. 20, 1952, Serial No. 617,333.

Small Waist

For Girdles.
Claims use since July 20, 1951.

566,179. (Class 44. Dental, Medical, and Surgical Appliances.) Artie W. Knopf, New York, N. Y. Original filed, act of 1946, Principal Register, Oct. 5, 1951; amended to application, Supplemental Register, Aug. 14, 1952, Serial No. 619,626.

Kutryte

For Dental Appliances—Namely, Dental Burrs, Hand Pieces, and Grinding Stones, Files, Mandrils, Vulcanite Burrs, High Speed Burrs, Dental Forceps, Cutting Shears, Pliers, Drills (Carton and High Speed), and Tweezers.
Claims use since September 1950.

566,180. (Class 39. Clothing.) M. I. Kohan, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 4, 1952; amended to application, Supplemental Register, June 18, 1952, Serial No. 623,196.

KOHANKNIT

For Ladies', Misses', and Children's Tights, Leotards, Bathing Suits, Trunks, Dance Dresses, Midriff and Shorts Combinations, Outer Skirts and Top Shirts.
Claims use since July 11, 1920.

566,181. (Class 18. Medicines and Pharmaceutical Preparations.) The Althena Company, Incorporated, Laurel, Miss. Filed Feb. 2, 1952, Serial No. 624,441.

CHECKS

For Cough Syrup.
Claims use since September 1947.

566,182. (Class 21. Electrical Apparatus, Machines, and Supplies.) Laurel Lamp Manufacturing Co., Inc., Newark, N. J. Original filed, act of 1946, Principal Register, Feb. 12, 1952; amended to application, Supplemental Register, Aug. 11, 1952, Serial No. 624,839.

SIGHT SAVER

For Electrical Apparatus—Namely, Table, Desk, Wall, and Floor Lamps.
Claims use since Jan. 9, 1949.

566,183. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Precision Rubber Products Corporation, Dayton, Ohio. Original filed, act of 1946, Principal Register, Mar. 4, 1952; amended to application, Supplemental Register, July 9, 1952, Serial No. 625,919.



All wording shown on the drawing is disclaimed.
For Hydraulic Machinery Packings.
Claims use since Jan. 1, 1949.

Service Marks

566,184. (Class 105. Transportation and Storage.) Mohawk Motor Lines, Inc., Nashville, Tenn. Original filed, act of 1946, Principal Register, Aug. 8, 1949; amended to application, Supplemental Register, Feb. 25, 1952, Serial No. 583,161.

T-BONE STEAK EXPRESS
WEHBY SYSTEM

For Transporting Packing-House Products by Motor Van.
Claims use since 1938.

566,185. (Class 105. Transportation and Storage.) Mohawk Motor Lines, Inc., Nashville, Tenn. Original filed, act of 1946, Principal Register, Aug. 8, 1949; amended to application, Supplemental Register, Feb. 25, 1952, Serial No. 583,163.

TENDER LOIN STEAK LINER
WEHBY SYSTEM

For Transporting Packing-House Products by Motor Van.
Claims use since 1938.

TRADE-MARK REGISTRATIONS RENEWED

38,348. REPRESENTATION OF GIRL'S PORTRAIT IN CIRCULAR FRAME. Registered May 27, 1902. Thomas N. Kenyon. Re-renewed May 27, 1952, to Donald D. Kenyon, doing business as Kondon Manufacturing Company, Minneapolis, Minn. Remedies for Catarrh, Hay-Fever, Cold in the Head, Etc. Class 18.

38,576. BANNER. Registered July 8, 1902. Swift and Company. Re-renewed July 8, 1952, to Swift & Company, Chicago, Ill., a corporation of Illinois. Eggs. Class 46.

38,700. PREMIER. Registered July 29, 1902. Fisk Rubber Company, Chicopee Falls and Springfield, Mass. Re-renewed July 29, 1952, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Pneumatic Tires for Bicycles, Carriages, and Automobiles. Class 35.

39,185. REPRESENTATION OF BOY WITH PLOUGH ETC. Registered Nov. 4, 1902. New Prague Flouring Mill Company, New Prague, Minn. Re-renewed Nov. 4, 1952, to International Milling Company, Minneapolis, Minn., a corporation of Delaware. Wheat-Flour. Class 46.

39,410. EMPIRE. Registered Dec. 2, 1902. Mica Insulator Co., New York, N. Y. Re-renewed Dec. 2, 1952, to Mica Insulator Co., Schenectady, N. Y., a corporation of New Jersey. Electrical Insulators. Class 21.

86,099. "REKORD" WITHIN RECTANGULAR OUTLINE. Registered Apr. 9, 1912. Söderfors Bruks Aktiebolag. Re-renewed Apr. 9, 1952, to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden, a corporation organized under the laws of Sweden. High Speed Tool Steel. Class 14.

86,100. SÖDERFORS. Registered Apr. 9, 1912. Söderfors Bruks Aktiebolag. Re-renewed Apr. 9, 1952, to Stora Kopparbergs Bergslags Aktiebolag, Falun, Sweden, a corporation organized under the laws of Sweden. Tool Steel. Class 14.

86,681. GOBELIN. Registered May 28, 1912. American Encaustic Tiling Co. Ltd., New York, N. Y., and Zanesville, Ohio. Re-renewed May 28, 1952, to American Encaustic Tiling Company, Inc., New York, N. Y., and Lansdale, Pa., a corporation of New York. Tiles, and More Particularly Mosaic Tiles. Class 12.

86,980. "23" AND CIRCLE DESIGN. Registered June 18, 1912. The M. W. Dunton Company. Re-renewed June 18, 1952, to The M. W. Dunton Company, Providence, R. I., a corporation of Rhode Island. Friction-Tape. Class 5.

87,012. REPRESENTATION OF MEDALLIONS WITHIN CIRCLE DESIGN. Registered June 18, 1912. Alex D. Shaw & Co., New York, N. Y. Re-renewed June 18, 1952, to Duff Gordon & Co., Port St. Mary's, Spain, a firm of Spain. Sherry-Wine. Class 47.

87,141. AM. Registered July 2, 1912. American Brake Shoe & Foundry Company, Mahwah, N. J. Re-renewed July 2, 1952, to American Brake Shoe Company, New York, N. Y., a corporation of Delaware. Castings Made From Metal. Class 14.

87,204. BIG TREE. Registered July 2, 1912. Goldberg, Bowen & Co. Re-renewed July 2, 1952, to L. D. McLean Co., San Francisco, Calif., a corporation of California. California Wine. Class 47.

87,252. OPTICO. Registered July 2, 1912. The Patterson-Sargent Company, Cleveland, Ohio, a corporation of Ohio. Re-renewed July 2, 1952. Dry and Mixed Paints, Wall-Finishes, Stains, Etc. Class 16.

87,306. LINDT. Registered July 9, 1912. Aktien-Gesellschaft Vereinigte Berner & Zurcher Chocolade-Fabriken Lindt & Sprungli, Kilchberg, near Zurich, and Berne, Switzerland. Re-renewed July 9, 1952, to Lindt & Sprungli, Inc., New York, N. Y., a corporation of New York. Chocolate Candies. Class 46.

87,307. AETCO. Registered July 9, 1912. American Encaustic Tiling Co. Ltd., New York, N. Y., and Zanesville, Ohio. Re-renewed July 9, 1952, to American Encaustic Tiling Company, Inc., New York, N. Y., and Lansdale, Pa., a corporation of New York. Tiles and Mosaic Tiles. Class 12.

87,367. REPRESENTATION OF HORSESHOE. Registered July 9, 1912. Rennous, Kleinle & Co., Baltimore, Md. Re-renewed July 9, 1952, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania. Brushes—Namely, Paint, Varnish, Sash-Tools, Etc. Class 29.

87,436. "BLACK DIAMOND" AND DESIGN. Registered July 16, 1912. The M. W. Dunton Company. Re-renewed July 16, 1952, to The M. W. Dunton Company, Providence, R. I., a corporation of Rhode Island. Friction-Tape. Class 5.

87,484. ROCKFORD WATCH CO. Registered July 16, 1912. The Rockford Watch Co. Ltd., Rockford, Ill. Re-renewed July 16, 1952, to Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois. Watchcases and Watch-Movements. Class 27.

87,615. LIVELY. Registered July 30, 1912. Federal Milling Company, Lockport, N. Y. Re-renewed July 30, 1952, to International Milling Company, Minneapolis, Minn., a corporation of Delaware. Wheat-Flour. Class 46.

87,832. YANKEE. Registered Aug. 6, 1912. The J. B. Williams Company, Glastonbury, Conn., a corporation of Connecticut. Re-renewed Aug. 6, 1952. Shaving and Toilet Soaps. Class 51.

87,833. BARBERS BAR. Registered Aug. 6, 1912. The J. B. Williams Company, Glastonbury, Conn., a corporation of Connecticut. Re-renewed Aug. 6, 1952. Shaving and Toilet Soaps. Class 51.

88,046. BUNKER HILL. Registered Aug. 27, 1912. W. F. Assau Canning Co., Baltimore, Md., a corporation of Maryland. Re-renewed Aug. 27, 1952. Canned Fruits and Canned Vegetables. Class 46.

88,475. "ELGIN GIANT" AND DRAWING. Registered Sept. 24, 1912. Elgin Giant Watch Case Co. Re-renewed Sept. 24, 1952, to Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois. Watchcases. Class 27.

88,729. REPRESENTATION OF MAN DARNING SOCK. Registered Oct. 22, 1912. Joseph Black & Sons Company, York, Pa., a corporation of Pennsylvania. Re-renewed Oct. 22, 1952. Stockings. Class 39.

88,840. WHITE NUGGETS. Registered Oct. 29, 1912. California Central Creameries. Re-renewed Oct. 29, 1952, to Golden State Company, Ltd., San Francisco, Calif., a corporation of Delaware. Eggs. Class 46.

89,149. "BULL DOG" AND DRAWING. Registered Nov. 12, 1912. Seacoast Canning Company, Eastport, Maine. Re-renewed Nov. 12, 1952, to R. J. Peacock Canning Co., Lubec, Maine, a corporation of Maine. Canned Sardines. Class 46.

89,279. REPRESENTATION OF HAND HOLDING VALVE. Registered Dec. 3, 1912. The Lunkenheimer Company, Cincinnati, Ohio, a corporation of Ohio. Re-renewed Dec. 3, 1952. Pressure-Regulators, Water-Columns, Cocks, Nozzles, Valves, and Unions. Class 13.

89,384. REPRESENTATION OF OVAL AND BAND DESIGN. Registered Dec. 10, 1912. South Bend Bait Company, South Bend, Ind., a corporation of Indiana. Re-renewed Dec. 10, 1952. Fishing-Tackle, Fish-Lines, Fishing-Reels, Etc. Class 22.

89,514. "PRIMARITE" AND DESIGN. Registered Dec. 17, 1912. Standard Varnish Works, New York, N. Y. Re-renewed Dec. 17, 1952, to Standard-Toch Chemicals, Inc., Staten Island, N. Y., a corporation of New York. Liqu'd Filler Intended for Priming and First Coating on Hard and Soft Woods. Class 16.

293,171. "HEIDSIECK" ETC. AND DESIGN. Registered Apr. 12, 1932. Kunkelmann & Cie. Societe Anonyme. Renewed Apr. 12, 1952, to Societe à Responsabilite Limitee Kunkelmann & Cie, Reims, France, a corporation organized under the laws of the Republic of France. Champagne. Class 47.

293,245. LETTUCE-LEAF. Registered Apr. 19, 1932. Private Brands, Inc. Renewed Apr. 19, 1952, to Clinton Foods Inc., New York, N. Y., a corporation of Delaware. Mayonnaise. Class 46.

294,660. "BONTEX" AND DRAWING. Registered June 7, 1932. Columbus Coated Fabrics Corporation, Columbus, Ohio, a corporation of Ohio. Renewed June 7, 1952. Shade Cloth Made of Pyroxylin Coated Fabrics. Class 42.

294,710. "SPORT DEE" WITHIN BROKEN PARALLEL LINES. Registered June 7, 1932. Stahl-Urban Company, Terre Haute, Ind. Renewed June 7, 1952, to Stahl-Urban Company, Terre Haute, Ind., and Brookhaven, Miss., a corporation of Indiana. Sport Clothing Consisting of Coats, Vests, Blouses, Etc. Class 39.

295,052. G. T. M. KREIDL. Registered June 14, 1932. Vereinigte Chemische Fabriken Kreidl, Heller & Co., Vienna, Austria. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him June 14, 1952. Opaquing Agents in the Nature of Paint Pigments for Glass and Enamel, Ceramic Paint Colours, Opaque Paint Colours, and Enamel Paint Colours. Class 16.

295,053. GASOPAK. Registered June 14, 1932. Vereinigte Chemische Fabriken Kreidl, Heller & Co., Vienna, Austria. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him June 14, 1952. Opaquing Agents in the Nature of Paint Pigments for Glass and Enamel, Ceramic Paint Colours, Etc. Class 16.

295,172. 'SKOAL'. Registered June 21, 1932. Deleon Walsh, Long Island City, N. Y. Renewed June 21, 1952, to Duvernoy & Sons, Inc., New York, N. Y., a corporation of New York. Swedish Bread (Knäckebröd, Rye and Wheat and Oat Bread Slices, Crisp Bread). Class 46.

295,198. "YOUNG'S TROPIKER" ETC. AND DRAWING. Registered June 21, 1932. Young Brothers. Renewed June 21, 1952, to Young's Merchandising Corporation, New York, N. Y., a corporation of New York. Men's and Boys' Hats of Felt, Cloth, and Straw. Class 39.

295,344. SAFLEX. Registered June 28, 1932. Square D Company, Detroit, Mich., a corporation of Michigan. Renewed June 28, 1952. Electric Panelboards and Electric Control Boards. Class 21.

295,356. STA-LINE. Registered June 28, 1932. Mosinee Paper Mills Company, Mosinee, Wis., a corporation of Wisconsin. Renewed June 28, 1952. Paper Used in the Making of Bags, for Lining Boxes and for General Wrapping Purposes. Class 37.

295,805. SNOWFLAKE. Registered July 12, 1932. Westfield River Paper Co., Inc., Russell, Mass., a corporation of Massachusetts. Renewed July 12, 1952. Embossed Glassine Paper. Class 37.

296,004. TABLE CRAFT. Registered July 19, 1932. La Choy Food Products, Inc., Detroit, Mich. Renewed July 19, 1952, to Beatrice Foods Co., Chicago, Ill., a corporation of Delaware. Canned Corn Mush and Canned Chicken a la King. Class 46.

296,111. PILLSBURY'S ROI DU NORD. Registered July 26, 1932. Pillsbury Flour Mills Company. Renewed July 26, 1952, to Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Flour Made From Wheat. Class 46.

296,115. XXXX PATENT. Registered July 26, 1932. Pillsbury Flour Mills Company. Renewed July 26, 1952, to Pillsbury Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Flour Made From Wheat. Class 46.

296,204. EXIT. Registered Aug. 2, 1932. Midway Chemical Company, Chicago, Ill. Renewed Aug. 2, 1952, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Liquid Insecticide. Class 6.

296,344. AIVLYS. Registered Aug. 2, 1932. Paristyle Novelty Co. Inc. Renewed Aug. 2, 1952, to Paristyle Beauty Salons, Inc., New York, N. Y., a corporation of New York. Face Creams, Cleansing Creams, Massage Creams, Etc. Class 51.

296,353. REPRESENTATION OF ALEMBIC AND HEXAGON DESIGN. Registered Aug. 2, 1932. The Naugatuck Chemical Company. Renewed Aug. 2, 1952, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Chemicals for the Treatment of Rubber Prior to or During the Curing or Vulcanizing Thereof. Class 6.

296,355. REPRESENTATION OF ALEMBIC. Registered Aug. 2, 1932. The Naugatuck Chemical Company. Renewed Aug. 2, 1952, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Chemicals for the Treatment of Rubber Prior to or During the Curing or Vulcanizing Thereof. Class 6.

296,358. "IS" ETC. AND REPRESENTATION OF EMBLEM FOR TROPHIES. Registered Aug. 2, 1932. International Silver Company. Renewed Aug. 2, 1952, to The International Silver Company, Meriden, Conn., a corporation of Connecticut. Prize Cups, Symbolic Figures, and Trophies Made of or Plated With Precious Metal. Class 28.

296,439. "16 CYLINDER" AND DRAWING. Registered Aug. 9, 1932. Federal Mill, Inc., Lockport, N. Y. Renewed Aug. 9, 1952, to International Milling Company, Minneapolis, Minn., a corporation of Delaware. Wheat Flour. Class 46.

296,655. DIAGRA. Registered Aug. 16, 1932. Forstmann & Huffmann Company. Renewed Aug. 16, 1952, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

296,723. SHELL. Registered Aug. 16, 1932. Shell Oil Company, San Francisco, Calif. Renewed Aug. 16, 1952, to Shell Oil Company, New York, N. Y., a corporation of Delaware. Furniture Polish and Automobile Polish. Class 4.

297,087. "ORIOLE" AND DRAWING. Registered Aug. 30, 1932. Frederick W. Grosche, Baltimore, Md. Renewed Aug. 30, 1952. Storage Batteries. Class 21.

297,334. REPRESENTATION OF ARROW HEAD ETC. Registered Sept. 13, 1932. The Mattatuck Manufacturing Company, Waterbury, Conn., a corporation of Connecticut. Renewed Sept. 13, 1952. Upholstery Nails, Jack Chain, Brass Plumbers and Safety Chain, Eyelets, Etc. Class 13.

297,513. "NAZCO" ETC. AND DESIGN LINED FOR RED. Registered Sept. 20, 1932. Nazareth Cement Company, Nazareth, Pa., a corporation of Pennsylvania. Renewed Sept. 20, 1952. Portland Cement. Class 12.

297,972. FARM CREST. Registered Oct. 4, 1932. Farm Crest Bakeries, Incorporated, Wilmington, Del., and Detroit, Mich. Renewed Oct. 4, 1952, to Farm Crest Bakeries, Incorporated, Detroit, Mich., a corporation of Delaware. Bread, Rolls, Sweet Yeast Rolls, Etc. Class 46.

298,252. TENAX. Registered Oct. 18, 1932. Diamond Expansion Bolt Co. Renewed Oct. 18, 1952, to Diamond Expansion Bolt Co., Inc., Garwood, N. J., a corporation of New Jersey. Machine Bolt Expansion Shields, Expansion Bolts, Expansion Shields, Etc. Class 13.

298,606. PYROTE. Registered Nov. 1, 1932. Mechling Brothers Chemical Company, Camden, N. J. Renewed Nov. 1, 1952, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Insecticides. Class 6.

298,695. KEC. Registered Nov. 1, 1932. Western Bottle Mfg. Co., doing business as The Western Company. Renewed Nov. 1, 1952, to Weco Products Company, Chicago, Ill., a corporation of Illinois. Handkerchiefs. Class 39.

298,728. FILTAIRE. Registered Nov. 1, 1932. The Hoover Company, North Canton, Ohio, a corporation of Ohio. Renewed Nov. 1, 1952. Dust Filtering and Collecting Bags Formed of Fibrous Material for Suction Cleaners. Class 31.

298,742. CLAY'S. Registered Nov. 1, 1932. Loren M. Haeseler, doing business as Clay Cough Drop Co. Renewed Nov. 1, 1952, to Marianne Zeman, doing business as Clay Cough Drop Co., not inc., Chicago, Ill. Syrup for Coughs, Cough Drops, Cold Capsules, Etc. Class 18.

298,874. VIENNA MOIRE. Registered Nov. 8, 1932. The Albermarle Paper Manufacturing Company, Richmond, Va., a corporation of Virginia. Renewed Nov. 8, 1952. Blotting Paper. Class 37.

298,879. "SHAW'S" ETC. AND DRAWING. Registered Nov. 8, 1932. Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts. Renewed Nov. 8, 1952. Covered and Bound Blank Books, Trial Balance Books, Memorandum Books, Note Books, Etc. Class 37.

298,948. "D" WITHIN DIAMOND DESIGN. Registered Nov. 15, 1932. Draper Corporation, Portland, Maine, and Hopedale, Mass. Renewed Nov. 15, 1952, to Draper Corporation, Hopedale, Mass., a corporation of Maine. Loom-Temples and Parts Thereof and for Parts of Looms. Class 23.

298,966. PERFECTONE. Registered Nov. 15, 1932. S. C. Johnson & Son. Renewed Nov. 15, 1952, to S. C. Johnson & Son, Inc., Racine, Wis., a corporation of Wisconsin. Paint Enamels and Undercoats. Class 16.

298,995. "THE 3 MUSKETEERS" AND DRAWING. Registered Nov. 15, 1932. Mars, Incorporated. Renewed Nov. 15, 1952, to Mars, Incorporated, Chicago, Ill., a corporation of Delaware. Candy. Class 46.

299,025. "WINNIE MAY" ETC. AND DRAWING. Registered Nov. 15, 1932. Jos. S. Cohen and Sons Co. Inc., New York, N. Y., a corporation of New York. Renewed Nov. 15, 1952. Women's and Children's Dresses, Suits, Pajamas, Overalls, and Smocks. Class 39.

299,232. STOP-PHYR. Registered Nov. 22, 1932. M. J. Merkin Paint Co., Inc., New York, N. Y., a corporation of New York. Renewed Nov. 22, 1952. Liquid for the Fireproofing of Various Materials, Such as Textiles, Wood, Etc. Class 16.

299,361. TIP TOP. Registered Nov. 29, 1932. Liggett & Myers Tobacco Company, New York, N. Y., a corporation of New Jersey. Renewed Nov. 29, 1952. Cigarette Paper, Cut, Uncut and in Books or Packages. Class 8.

299,367. "BILTMORE" ETC. AND REPRESENTATION OF LABEL LINED FOR RED AND GOLD. Registered Nov. 29, 1932. Coast Fishing Co., Wilmington, Calif. Renewed Nov. 29, 1952, to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey. Canned Tuna. Class 46.

299,511. "MERCURY MADE" AND DRAWING. Registered Dec. 6, 1932. Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey. Renewed Dec. 6, 1952. Lubricating Oil. Class 15.

299,599. "THOMAS" ETC. AND OVAL DESIGN. Registered Dec. 13, 1932. Thomas Flexible Coupling Company, Warren, Pa., a corporation of Pennsylvania. Renewed Dec. 13, 1952. Flexible Machinery Couplings. Class 23.

299,621. REPRESENTATION OF LABEL AND CONTAINER LINED FOR RED, YELLOW, AND BLUE. Registered Dec. 13, 1932. Royal Baking Powder Company. Renewed Dec. 13, 1952, to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware. Baking Powder. Class 46.

299,640. IVOIRE DE CHANEL. Registered Dec. 13, 1932. Chanel, Inc., New York, N. Y., a corporation of New York. Renewed Dec. 13, 1952. Perfume. Class 51.

299,653. WILDROOT. Registered Dec. 13, 1932. Wildroot Company Inc., Buffalo, N. Y., a corporation of New York. Renewed Dec. 13, 1952. Hair Tonics, Wave Sets (Being Powders or Liquids To Be Used for Setting Waves in the Hair), Etc. Class 51.

299,671. LEATHER LIFE. Registered Dec. 13, 1932. Wilson Jones Company, Chicago, Ill., a corporation of Massachusetts. Renewed Dec. 13, 1952. Filing Envelopes, Mailing Envelopes, Filing Folders and Filing Pockets. Class 37.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

293,954. KODAPAK. Registered May 10, 1932. Renewed May 10, 1952. Eastman Kodak Company. Thin, Transparent Sheeting of Cellulosic Composition. Class 50. New certificate under section 7(c) issued Oct. 28, 1952, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey.

345,836. BAMBOO. Registered May 11, 1937. Alfred L. Helwith. Cotton, Rayon and Silk Fabrics, in the Piece. Class 42. New certificate under section 7(c) issued Oct. 28, 1952, to United Merchants and Manufacturers, Inc., New York, N. Y., a corporation of Delaware.

551,345. BEBON. Registered Nov. 27, 1951. United Hosiery Mills Corporation. Cotton Yarn. Class 43. New certificate under section 7(c) issued Oct. 28, 1952, to Bebon Corporation, Chattanooga, Tenn., a corporation of Tennessee.

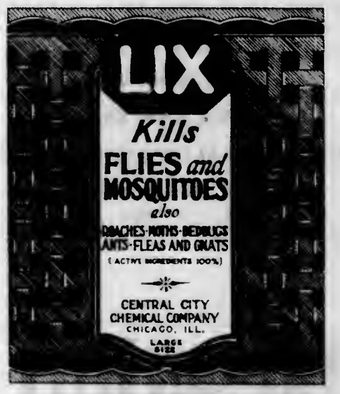
TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 324,466. Registered May 21, 1935. Central City Chemical Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.



The words "Kills Flies and Mosquitoes Also Roaches, Moths, Bedbugs, Ants, Fleas and Gnats (Active Ingredients 100%), Central City Chemical Company, Chicago, Ill., Large Size" are disclaimed. The drawing is lined for the color green.

For Insecticides.

Claims use since Feb. 28, 1931.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 423,524. Registered Sept. 3, 1946. Calbest Engineering and Electronics Co., Los Angeles, Calif., a corporation of California. Republished by registrant.

Calbest

For Radio Receiving Sets and Parts Thereof.

Claims use since about Oct. 11, 1945.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 444,688. Registered May 6, 1952. Utility Appliance Corp., Los Angeles, Calif., a corporation of California. Republished by registrant.

UTILITY

For Individual Water Pumps for Use in Air-Conditioning Equipment, and Individual V-Belt Pulleys for Air-Moving Equipment.

Claims use since Jan. 29, 1946.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 434,338. Registered Nov. 18, 1947. Movado Watch Agency, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

ASTROGRAPH

For Watches.
Claims use since Aug. 15, 1946.

CLASS 37

PAPER AND STATIONERY

Reg. No. 86,689. Registered May 28, 1912. American Sales Book Company, Limited, Toronto, Ontario, Canada, and Niagara Falls, Elmira, and Glendale, N. Y. Republished by Moore Business Forms, Inc., Niagara Falls, N. Y., a corporation of Delaware.

SYSTEMAT

For Sales-Books.
Claims use since Oct. 14, 1911.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 289,942. Registered Dec. 15, 1931. The Sun Printing & Publishing Association, New York, N. Y. Republished by New York World-Telegram Corporation, New York, N. Y., a corporation of New York.

The Sun Dial

For Title of a Column Printed Daily in "The Sun."
Claims use since Apr. 7, 1913.

CLASS 39

CLOTHING

Reg. No. 444,574. Registered Oct. 2, 1951. Ruepp & Co., Ltd., Sarmenstorf, Switzerland, a corporation of Switzerland. Republished by registrant.

ALPINIT
MADE IN SWITZERLAND

The words "Made in Switzerland" are disclaimed apart from the mark as shown.

For Knitted Articles—Namely, Men's, Women's, and Children's Sweaters, Slacks, Skirts, Jackets, and Bathing Suits.
Claims use since 1922.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 86,437. Registered May 7, 1912. National Warehouse and Storage Company, East St. Louis, Ill. Republished by Dixie Mills Company, East St. Louis, Ill., a corporation of Illinois.

DIXIE

For Horse Feed.
Claims use since Sept. 1, 1911.

Reg. No. 96,998. Registered May 12, 1914. Sanitary Food Manufacturing Company, St. Paul, Minn. Republished by Griggs, Cooper & Company, St. Paul, Minn., a corporation of Delaware.

SWEETEST MAID

For Chocolate Creams, Chocolate Caramels, Any Fondants, Nuts or Fruit Dipped in Chocolate, Creams, Bonbons, Marshmallows, Fudge, Caramels, Chewing-Candies, Peanut and Cocoanut Candies, Salted Nuts of All Kinds, Hard-Boiled Candies, Mixed, Stick, Drops, Squares, and Cuts, Sugar Sand, Jellies, and Gum-Drops.
Claims use since Feb. 10, 1912.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 321,234. Registered Jan. 22, 1935. Jas. E. Pepper & Company, Lexington, Ky. Republished by Schenley Industries, Inc., New York, N. Y., a corporation of Delaware.

INDIAN HILL

For Whiskey.
Claims use since 1889.

Reg. No. 343,228. Registered Feb. 16, 1937. Records & Goldsborough, Incorporated, Baltimore, Md. Republished by Joseph S. Finch and Company, New York, N. Y., a corporation of Pennsylvania.

GOLD MEDAL

For Cordials.
Claims use since 1892.
663 O. G.—63

Reg. No. 347,147. Registered June 15, 1937. Schenley Products Company, New York, N. Y. Republished by Schenley Industries, Inc., New York, N. Y., a corporation of Delaware.

SCHENLEY
MARK OF MERIT
SCHENLEY

For Whiskey, Gin, and Brandy.
Claims use since Aug. 18, 1936.

REISSUES

OCTOBER 28, 1952

23,568

CLAPBOARD UNIT FOR WALL COVERINGS

Charles M. Kinghorn, Port Chester, N. Y., assignor to Cresswell Roll Forming Company, Limited, Montreal, Quebec, Canada, a corporation of Quebec

Original No. 2,477,987, dated August 2, 1949, Serial No. 720,811, January 8, 1947. Application for reissue July 25, 1950, Serial No. 175,833

2 Claims. (Cl. 189—86)



3. A clapboard assembly for a building, comprising a plurality of linearly-extending tension-stiffened clapboard units of resiliently-deformable springy sheet metal contiguously and overlappingly arranged one above the other against a fixed support wherein each unit is cross-sectionally uniform both as to thickness and shape and includes a main body having an intermediate portion pressed into direct flat contact with the fixed support and therebelow a lower curved portion directed away from the fixed structure followed by a bend inwardly providing a ledge merging into a fold rising upwardly from the ledge to provide an inverted vertical groove substantially wider than the thickness of the unit with the free sidewall of the groove terminating in a marginal skirt in contact with the fixed structure, said main body having above the flat contact portion an upper curved portion also directed away from the fixed structure but to a lesser extent than said bottom curved portion and terminating in a flat marginal top portion set at a rearward angle to the upper curved portion, said last mentioned element of the subjacent unit projecting between the side walls of the groove of the superjacent unit for a limited lateral movement therebetween and with the outer face only of the said top portion in moisture-obstructing contact with that side wall of the fold that is farthest removed from the fixed support, the upper and the lower curved portions of the unit being thus under significant laterally-exerted tension from the flat contact portion as a fulcrum so as to be less curved than during the initial normal curvature of the unit when unemplaced, whereby as emplaced each clapboard unit is tension-deformed for maximizing stiffening thereof while minimizing noise-reflection.

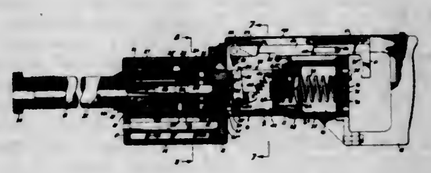
23,569

DEVICE FOR INSERTING BOLTS IN CONCRETE

Robley F. Sopris, Cuernavaca, Mexico, assignor, by mesne assignments, to Daniel W. Creary, Portland, Oreg.

Original No. 2,518,395, dated August 8, 1950, Serial No. 697,341, September 16, 1946. Application for reissue July 10, 1951, Serial No. 235,913

15 Claims. (Cl. 1—47)



1. In a gun adapted to drive fastening devices into a solid mass of dense aggregate material a casing, a barrel attached thereto having a breech end adapted to receive a cartridge, and means in the casing for absorbing the recoil effect comprising a breech block carrying a firing pin mechanism at one end and a piston section at the other end, said casing having a cushion comprising a gas pocket receiving the piston, and an inwardly opening check valve in a wall of the pocket.

PLANT PATENTS

GRANTED OCTOBER 28, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,141

PEACH TREE

John M. Garabedian, Fresno, Calif.

Application November 26, 1951, Serial No. 258,237

1 Claim. (Cl. 47—62)

A new and distinct variety of peach tree, substantially as described and illustrated, bearing yellow-fleshed freestone fruit which—as compared to the fruit of the peach tree of United States Plant Patent No. 920—ripens approximately two weeks later; is rounder in shape; and shows more yellow ground color.

PATENTS

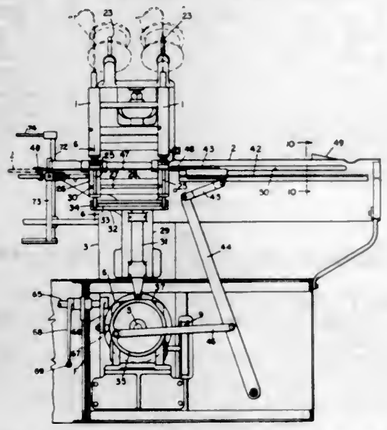
GRANTED OCTOBER 28, 1952

GENERAL AND MECHANICAL

2,615,161
SIGNATURE FEEDING AND STITCHING MACHINE

Albert Herman Schmidtke, St. Joseph, Mich., assignor to F. P. Rosback Company, Benton Harbor, Mich., a corporation of Michigan

Application October 18, 1950, Serial No. 190,851
3 Claims. (Cl. 1—7)



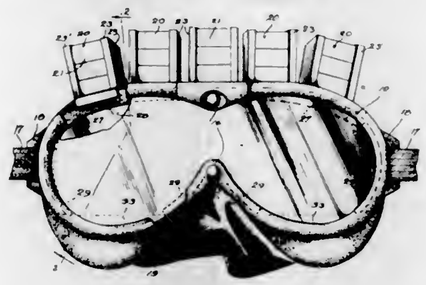
1. In a signature stitching machine wherein the signatures to be stitched are moved along a saddle to a stitching machine, the combination of a saddle of general inverted-V cross-section, a single feed slide located within and reciprocable longitudinally of said saddle, an elongated member attached to said feed slide for reciprocation therewith, a plurality of fingers fixedly attached to said member in longitudinally spaced relation therealong, and means adapted to reciprocate said feed slide in synchronism with operation of the stitching machine, said fingers projecting laterally beyond said saddle and being shaped to engage correspondingly spaced signature assemblies resting thereon upon movement towards the stitching machine, one of said fingers being so located as to move the signature assembly engaged thereby into position to be stitched when said slide reaches the limit of its reciprocatory movement towards the stitching machine, said means being timed to move said slide in the reverse direction while such assembly is held at such station and said fingers being shaped to slide by such assemblies during such reverse movement.

2,615,162
COLD WEATHER GOGGLES

William R. Christensen, Newton Highlands, and Chester E. Cross, East Sandwich, Mass.

Application June 8, 1949, Serial No. 97,868
4 Claims. (Cl. 2—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In an anti-fogging and anti-frosting goggles having a lens supported in a frame which has a flexible face-contacting part cooperating with the lens to define a substantially sealed space around the eyes of a wearer the combination comprising, one or more air cooling and dehumidifying condensers sealed in apertures in one side of said frame, said condensers each comprising a housing having horizontal and vertical partitioning means defining front and rear tortuous passages communicating with each other at the ends thereof adjacent the outer end of the housing and with the sealed space encompassed by said frame adjacent their opposite ends; and air deflecting means cooperating

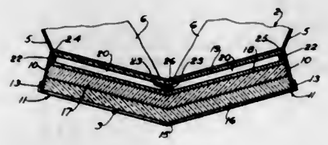


with the partitioning means to isolate the inner ends of the front and rear passages from direct communication with each other, said deflecting means, partitioning means and lens also cooperating to promote convectional flow of air from the space in said goggles containing air warmed by contact with the wearer's face through the condensers and adjacent the inner side of the lens back to the said warmed air space in the goggles at a region opposite the condensers.

2,615,163
NONFRACTURABLE LENS FOR GOGGLES

Ernest A. Ring, Providence, R. I., assignor to Watchemoket Optical Co., Inc., Providence, R. I., a corporation of Rhode Island

Application June 10, 1949, Serial No. 98,207
6 Claims. (Cl. 2—14)

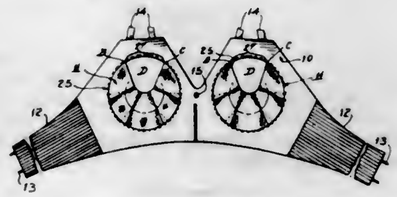


4. In a goggle or the like, a transparent optical element comprising two forwardly-disposed relatively thick layers of methyl methacrylate having their adjacent faces in contact, a third layer of thinner material such as cellulose acetate overlying the rearward face of the second layer in contact therewith, a fourth layer of cellulose acetate spaced rearwardly from the third layer, and spacing means separating the third and fourth layers to form an air-cushion therebetween.

2,615,164
BRASSIÈRE

Fred V. Graf, Los Angeles, Calif.

Application June 14, 1950, Serial No. 168,091
4 Claims. (Cl. 2—42)

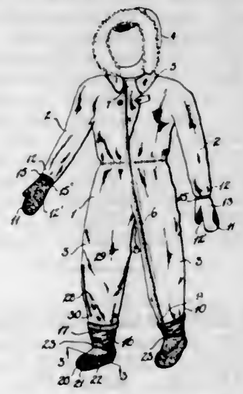


1. A brassière comprising a body encircling band having breast receiving apertures therein which are substantially surrounded by circular edges, each aperture being provided with a cup having a substantially U-shaped opening in its upper edge, and a curved lower edge secured to said circular edge of each aperture and substantially covering said aperture, said body encircling band having a cut-out above each aperture, said cut-out and said U-shaped edge forming an open top brassière cup, and securing means attached to the free edges of said cut-out adjacent said aperture.

2,615,165
SNOWSUIT WITH BOOTS

Alfred W. Steedman, Saskatoon, Saskatchewan, Canada, assignor of one-fourth to Newell Saunders, Edmonton, Alberta, Canada

Application September 22, 1951, Serial No. 247,824
2 Claims. (Cl. 2—80)

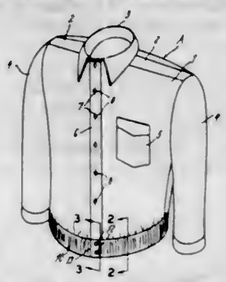


1. A snow or rain protection garment for children comprising in combination a body portion, sleeve and leg portions extending from said body portion, a sliding closure extending from the neck opening of said body portion to adjacent the crotch thereof and continuing downwardly to adjacent the angle of one of said leg portions, mitts sealably attached to the extremities of said sleeves, and boots also sealably attached to the extremities of said leg portions, said boots comprising an outer waterproofed wall and an inner insulating lining adhesively secured thereto, a reinforcing sole portion secured to said outer wall, said sole portion extending upwardly and over said wall to adjacent the welt area of said boot, a circumferentially disposed reinforcing strip secured externally, adjacent the top of said boot, the lower extremities of said leg portion of said garment being sealably secured between the said wall of said boot and said insulating lining.

2,615,166
MAN'S APPAREL GARMENT

Alfred P. Rowan, Clayton, Mo., assignor to Elder Manufacturing Company, St. Louis, Mo., a corporation of Missouri

Application March 18, 1950, Serial No. 150,518
3 Claims. (Cl. 2—128)

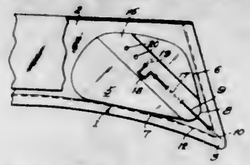


1. A man's dress shirt comprising a body portion consisting of two panels meeting in the center of the front thereof and respectively provided with buttons and buttonholes in the provision of a button-down-the-front closure, said body portion terminating in a straight bottom margin in the region of the hips of the wearer, and an elastic band stitched to said bottom margin and provided at its ends with snap fasteners for securement together as a body encircling band, said band being tubular in nature and being open at its ends in the provision of finger-gripping flaps to facilitate manipulation of the snap fasteners.

2,615,167
COLLAR STAY

Warren M. Sarff, Kirkwood, Mo.

Application January 17, 1951, Serial No. 206,379
6 Claims. (Cl. 2—132)



1. A collar stay which comprises a base of stiffening material having a general shape corresponding to the front end of a soft folding collar with its forward edges running substantially parallel with the corresponding edges of the collar and tapering to a blunt rounded point, a layer of pressure sensitive adhesive on one side of said base, wire-holding means adhered to the base on the side opposite the layer of pressure-sensitive adhesive and a wire threaded through said wire-holding means, said wire being held adjustably by said holding means with its forward end aligned with the blunt point of the base and, when applied to a collar being adapted to be inserted into the seam at the tip of the collar in order to stiffen said tip, the rounded point of the base being spaced from the tip of the collar.

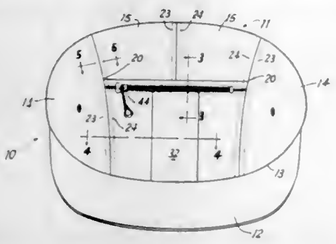
2,615,168
SPORT CAP

Morris L. Tannenbaum, Bronx, N. Y.; Abraham J. Springer and William H. Wechter executors of said Morris L. Tannenbaum, deceased

Application June 14, 1949, Serial No. 99,088
3 Claims. (Cl. 2—197)

1. A cap comprising a crown and a visor extending from said crown, said crown including

two side panels and a plurality of longitudinal, substantially rectangular panels having side edges thereof abutting and interconnected, an additional substantially rectangular shaped front pocket panel disposed on the outer surface of said crown and having one side edge thereof interposed and secured between a pair of abutting crown panel edges and the other side edge thereof interposed and secured between another pair



of abutting crown panel edges, said front pocket panel extending upwardly from the juncture of said crown and visor, a transversely extending fabric strip secured on the outer surface of said crown adjacent the top edge of said front pocket panel with the ends of said fabric strip interposed and secured between said pairs of abutting crown panel edges, and slide fastener closure means interconnecting said strip and the top edge of said front pocket panel.

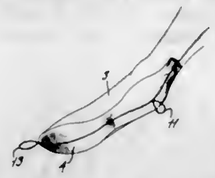
2,615,169
EAR MUFF FRAME AND MOUNTING
Robert E. Maxant, Riverside, Ill., assignor to Maxant Button and Supply Co., a corporation of Illinois
Application February 28, 1950, Serial No. 146,799
10 Claims. (Cl. 2—209)



1. A mounting for an ear muff comprising, a ring-like stamping member, means forming a cylindrical bearing across said member in a flat plane thereof on a chord of an arc spaced from the center of said member, a U-shaped member of spring material embracing said bearing, and a fastener attaching the parallel parts of said U-shaped member to cause it to retain a friction grip on said bearing for any radially disposed angular position.

2,615,170
KNITTED GARMENT
Milton A. Mintz, Lafayette Hill, and George W. Loveland, Ardmore, Pa.
Application September 19, 1950, Serial No. 185,534
3 Claims. (Cl. 2—240)

1. A stocking or like garment of the class described comprising a body having longitudinal edge portions, said body being folded upon itself to form toe, leg, and welt portions, a seam connecting the longitudinal edges of said portions, a portion of the thread comprising the seam being free from engagement with the body along its length and being folded upon itself and secured to the body at the beginning of the free portion of the seam thread to form a suspend-



ing loop thereby forming a substantially continuous stocking seam.

2,615,171
SKIRT AND BLOUSE CONNECTOR
Emma G. Borowick, New York, N. Y.
Application March 15, 1948, Serial No. 14,867
1 Claim. (Cl. 2—308)



The combination of a supporting strip, a clip member mounted on said strip, a dome-shaped proturberance provided on said clip member, a first piece of fabric superposed on said clip member and covering said protuberance, a second supporting strip, a second clip member mounted on said second strip and provided with an opening, said protuberance and the covering portion of the first piece of fabric projecting through said opening to provide a jaw element, a spring pressed plate pivoted to said second clip member and urged toward the same, and a second piece of fabric interposed between the second clip member and said plate, said plate urging the second piece of fabric in frictional engagement with said jaw element whereby to hold the first and second pieces of fabric in juxtaposition to each other.

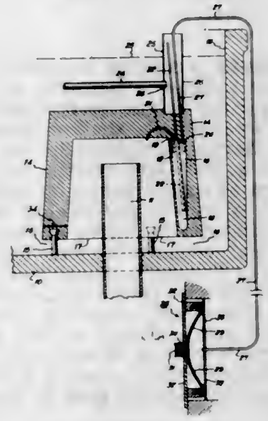
2,615,172
SHOULDER PAD STRUCTURE
Dorothy Ann Donegan, Ann Arbor, Mich.
Application May 8, 1950, Serial No. 160,777
2 Claims. (Cl. 2—323)



1. A shoulder strap for supporting brassières or the like comprising an elongated strip of porous rubber of substantially rectangular cross-section, said strip being slightly tapered from its central portion toward each end, a strip of

fabric shaped to surround said rubber strip and extending beyond the ends of said rubber strip to provide portions of double thickness of fabric for attachment to fastening elements.

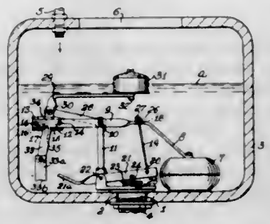
2,615,173
FLUSHING CISTERN
Joseph Leslie Pegler, Beecroft, near Sydney, New South Wales, Australia, assignor to Lockair Pty. Limited, Sydney, New South Wales, Australia, a corporation of New South Wales
Application November 15, 1949, Serial No. 127,318
In Australia December 6, 1948
7 Claims. (Cl. 4—43)



1. An improved flushing cistern comprising, in combination, a reservoir, a sump forming a seal on said reservoir for a flushing pipe extending downwardly from said reservoir, said sump including an arm projecting above the floor of said reservoir, a single bell-shaped member within said reservoir surrounding said arm for syphoning water from the reservoir, a tubular compartment formed integral with said bell-shaped member and providing a water seal within said reservoir, means establishing communication between one end of said compartment and the upper region of said bell-shaped member to allow of air being released from the latter so that water can rise therein and overflow into said arm, a tubular conduit leading from the lower precincts of said compartment to atmosphere at a point above the maximum water level in said reservoir, and pressure operated means exteriorly of said reservoir whereby, under pressure of air, water may be projected from said compartment to initiate flushing by said cistern.

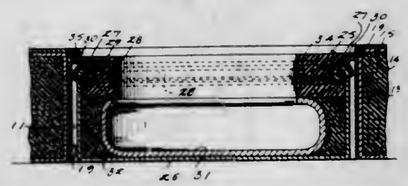
2,615,174
FLOAT-OPERATED MECHANISM
Leslie Clement Barling and George Russell Beith, Johannesburg, Transvaal, Union of South Africa
Application July 25, 1950, Serial No. 175,692
In the Union of South Africa May 26, 1950
4 Claims. (Cl. 4—67)

1. A mechanism for automatically and intermittently operating the outlet valve of a tank to which liquid is continuously supplied, comprising, in combination, a float provided in the tank, a float lever having the float connected to one end and pivotally supported between its ends in the tank, a counter-balancing weight connected to the end of the float lever remote from the float, an auxiliary float, an auxiliary lever pivotally supported between its ends in the tank and having the auxiliary float mounted on one of its ends at a level above the first-mentioned or main float, a trip element provided on the end of the float lever remote from the main float, a second trip element which is provided on the auxiliary lever as a complement to the first-mentioned trip element and which is engaged therewith while the tank is being filled up to the level of the auxiliary float and is disengaged therefrom so as to release the float lever and permit it to be abruptly lifted to its uppermost position by the pressure of the liquid on the main float, a valve lever pivotally supported between its ends in the tank and connected towards one end to the outlet valve, a link



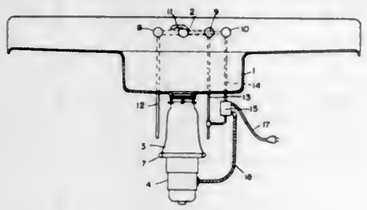
having one end extending upwards through and beyond the float lever and having its lower end connected to one end of the valve lever which is connected to the valve, an abutment provided on the upper end of the link against which, on disengagement of the trip elements, the float lever strikes and lifts the valve by means of the link and valve lever abruptly to its fully open position, a trigger mounted on the end of the auxiliary lever adjacent to the trip elements, and a step which is provided on the corresponding end of the valve lever remote from the link and which, on descent of the auxiliary and main floats consequent upon opening of the valve, is held by the said trigger so as to arrest final closure of the valve until the liquid in the tank is fully discharged.

2,615,175
HOSPITAL MATTRESS AND BEDPAN CONSTRUCTION
Josie M. Corakas, Washington, D. C.
Application June 19, 1950, Serial No. 169,017
1 Claim. (Cl. 4—113)



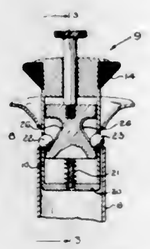
A bed pan assembly adapted for insertion in the aperture of a centrally apertured mattress comprised of an outer pan conforming to the dimensions of said aperture, a reverted rim around said pan, a hard rubber collar including a bead reverted oppositely to said rim engageable within the reverted portion of said rim, an inner bed pan, a sponge rubber filler between said pans and an apertured sponge rubber pad having a channel about the edge thereof overlying said inner bed pan, said collar seating in said channel, said pad having a flange overlying said channel and extending outwardly of the rim of said outer pan.

2,615,176
WASTE DISPOSAL UNIT FOR SINKS
Paul A. Frank, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application April 23, 1947, Serial No. 743,398
3 Claims. (Cl. 4—187)



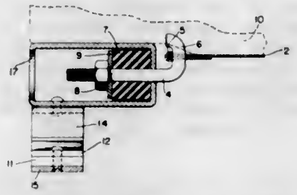
1. In combination, a sink provided with a drain opening, an electrically operated waste disposal apparatus beneath said sink formed with a downwardly extending passage therethrough having its upper end in communication with such drain opening, hot and cold water lines leading to said sink, separate valves in each of said lines for selectively controlling flow of water into said sink and through such passage, a branch line in said cold water line ahead of the valve therein, a third valve in said branch line for selectively controlling flow of water therethrough into said sink and through such passage, a flow responsive device in said branch line having an element movable in one direction in response to flow of water through said device by the operation of the valve in said branch line to supply water into said sink, and a switch actuated by such movement of said element to energize said waste disposal apparatus.

2,615,177
WASTE STOPPER DEVICE
Herbert R. Schlichting, New Berlin Township, Waukesha County, Wis.; Griffin T. Garnett, Jr., administrator of said Herbert R. Schlichting, deceased, assignor to Helen N. Schlichting, Milwaukee, Wis.
Application December 18, 1947, Serial No. 792,374
8 Claims. (Cl. 4—295)



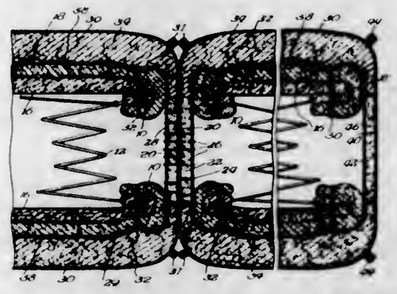
3. In a waste stopper device adaptable to any standard plumbing fixture having a discharge pipe, a casing member having a cap member on said casing member including a sealing ring attached thereto, a slider mounted for selective movement within said casing member, a retaining mechanism mounted in said slider and operative through said casing member against the discharge pipe, and resilient means constantly operative to hold said slider and retaining mechanism in a pipe engaging position, whereby said waste stopper is operative in said pipe to permit or prevent drainage from the fixture into the discharge pipe.

2,615,178
SEAT OR MATTRESS SUPPORT
Charles A. Karg, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application February 26, 1949, Serial No. 78,541
6 Claims. (Cl. 5—210)



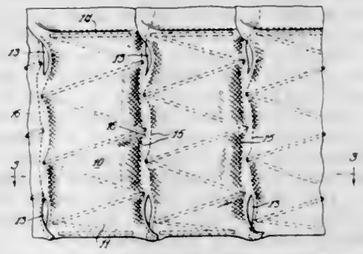
1. A support for a cushion, mattress or the like, which support includes a plurality of rubber vibration dampening means having limited movement in all directions, a shallow open-centered rigid frame having substantially parallel sides held together at each end by rigid end members and supported at spaced points by said means, a flexible sheet, a wire frame around the edge of the sheet, a plurality of rubber blocks carried by said frame and retained against movement toward the center thereof, a plurality of hook bolts engaged with the wire frame in the lateral margins of said sheet and extending through said rubber blocks, and nut and washer means engaged with the outer ends of said bolts and bearing on said rubber blocks to set up a compressive force thereon and transmit load on said sheet to said frame.

2,615,179
MATTRESS AND METHOD OF MAKING SAME
William H. Ramage, Memphis, Tenn.
Application April 12, 1948, Serial No. 20,503
12 Claims. (Cl. 5—351)



6. A mattress comprising: a pair of innerspring structures arranged side-by-side, each including border members and members bridging the inner border-members at the ends of the structures; a fabric cover-section for the padding on each structure; a pair of abutting flexible inner side borders between the contiguous sides of the sections, attached together along their transverse center, including fabric covers having their longitudinal edges attached to the adjacent edges of the cover-sections, respectively, for separate flexing of the structures by differential loads; flexible means connecting the central portion of the inner side-borders and the adjacent border-members, respectively; and a surrounding box-border extending continuously around the outer sides of the structures, including a fabric cover having its edges secured to the outer edges of the cover-sections.

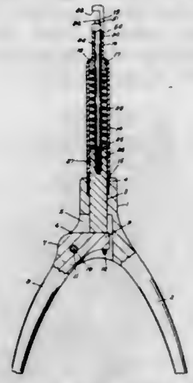
2,615,180
SPRING ASSEMBLY
Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware
Application May 7, 1949, Serial No. 91,889
4 Claims. (Cl. 5—353)



1. A connected series of fabric-pocketed spring coils for mattress formation comprising a strip of textile fabric formed of two fabric plies, one overlying the other, said strip having parallel longitudinal edges, said plies being connected together along both of said longitudinal edges, at least one of said connections comprising stitching extending along and adjacent to one edge of said strip, equally spaced, parallel lines of stitching extending transversely across said strip and connecting said plies at spaced intervals thereby forming a series of contiguous pockets between said plies, other lines of stitching extending inwardly from each of said edges a predetermined distance and substantially parallel to and closely adjacent to said spaced parallel lines of stitching, and a spring coil on each of said pockets, said coils having intermediate convolutions of greater diameter than the end convolutions and being of sufficient size to deform said pockets to draw the walls thereof inwardly between the convolutions, the intermediate convolutions of the spring in each pocket intermeshing with the intermediate convolutions of the springs in the immediately adjacent pockets while the end convolutions of the springs remain spaced apart, said strip having a series of equally spaced slits extending from each edge inwardly for a limited distance, the space between each of said other lines of stitching and the adjacent one of said spaced parallel transverse lines of stitching having one of said slits extending into such space.

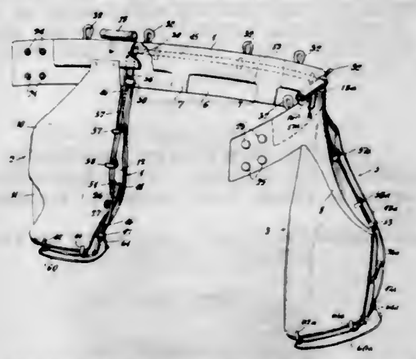
2,615,181
COMBINED SLIDABLE JAW WIRE CUTTING AND HOLDING TOOL
James H. McGaughey, Wesleyville, Pa.
Application August 26, 1947, Serial No. 770,569
3 Claims. (Cl. 7—5.5)

1. A device of the type described comprising a tubular sleeve having the upper end thereof flared inwardly, a head of less diameter than said sleeve and extending axially outwardly therefrom having an enlarged cylindrical portion engageable by the inwardly flared portion of said sleeve whereby said head is freely rotatable on said sleeve, said head having an axially extending bore and a cutaway portion defining a transversely extending abutting surface, a tool member slidable in the bore of said head and extending axially of said sleeve, a slidable member in said sleeve engageable with the end of said tool member in said sleeve, a spring between said slidable member and the enlarged portion of said head to urge said enlarged portion of said head into engagement with the inwardly flared portion of said sleeve and to urge said tool member away from said abutting surface of said head, a handle member to which said sleeve is attached, a cam member pivoted in said handle member engaging the end of said



slidable member in said sleeve to move said tool member towards said abutting surface, and means for rotating said cam member to move said tool member longitudinally.

2,615,182
LIFE PRESERVER
Jacob J. Podell, New York, N. Y.
Application March 1, 1950, Serial No. 147,095
7 Claims. (Cl. 9—17)

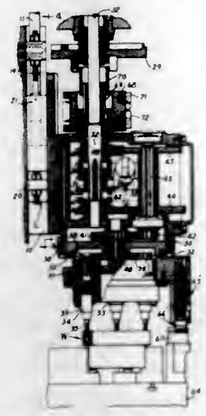


1. A life preserver adapted to be worn at about waist height including belt means having a passageway therein, means depending from said belt means having an opening in communication with said passageway, said depending means comprising an outer wall forming a pocket and an inner wall normally disposed within said outer wall and forming a pocket therein, and strap means having a portion connected with and extending along said pocket when deflated and having another portion extending along said pocket and connected with said first strap portion and spaceable from said pocket and the first strap portion to facilitate insertion of an arm between said strap portions.

2,615,183
TAPPING ATTACHMENT
Ernest H. Johnson and Andrew C. Lindmark, Bridgeport, Conn., assignors to The Bullard Company, a corporation of Connecticut
Application November 15, 1946, Serial No. 710,198
7 Claims. (Cl. 10—130)

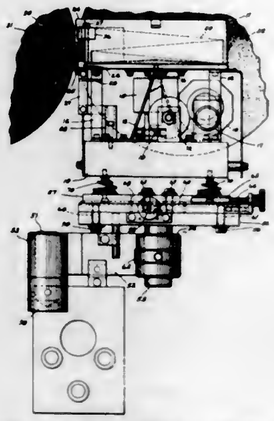
1. In a tapping head for a machine tool, a collet for holding a tap; a tap; a rotatable carrier for

said collet, said collet being non-aligned relatively to the axis of said carrier; a sleeve in said carrier surrounding said collet and held against rotation about its own axis; interengaging threads between said collet and sleeve having the same pitch as the threads of said tap; a rotatable axially fixed sleeve splined to said collet including means adapted to limit the axial movement of said collet in one direction;



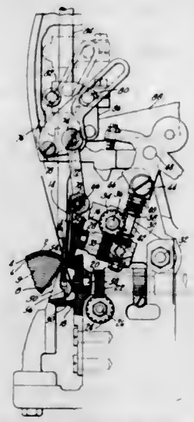
a reversible directional drive for rotating said splined sleeve; resilient means adapted to maintain one of said directional drives in condition to rotate said splined sleeve in a direction to render effective said limiting means; and means adapted to locate said tap with respect to a hole in a work piece comprising a device adapted to hold said carrier against rotation when said tap is properly located.

2,615,184
FEEDER FOR SHORT ARTICLES
Charles C. W. Williams, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa.
Application December 4, 1946, Serial No. 714,054
4 Claims. (Cl. 10—164)



1. In a device for conveying cylindrical articles of a length substantially equal to the diameter thereof to a point of operation of a machine, a hopper, means for vibrating said hopper to cause said articles to move in a substantially circumferential path, means for moving said articles from said hopper including a spiral track on the wall of the hopper and leading upwardly from the bottom thereof to an elevation above the articles in said hopper, said vibrating means being effective to move said articles along said track, means at the upper end of said track for receiving said articles comprising a platfrom, an opening in said platform through which articles are moved, means for conducting said articles from said opening to a point of operation, the diameter of said opening being such as to permit entrance of said articles only in an endwise direction, a resilient supporting arm for said platform, one end of said arm being attached to said hopper, said platform being free to vibrate at the other end thereof, said platform being vibrated both vertically and horizontally in response to the vibration of said hopper, and means adjacent said opening but mounted separately from said hopper, and connected to said hopper vibrating means for conducting said articles from said platform to a point of operation.

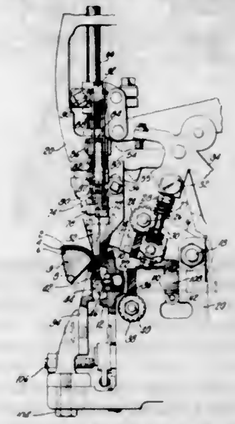
2,615,185
MACHINE FOR LASTING, SEWING AND TRIMMING SHOES
Ralph E. Sutton and William E. Trask, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 23, 1951, Serial No. 207,267
7 Claims. (Cl. 12—1)



2. A machine for lasting shoes having stitch forming devices, an upper engaging roll, a member between which and the peripheral surface of the roll the outturned upper and sole member of a shoe are gripped and means for rotating the roll and guiding the shoe to draw the upper against a last on which the sole member is mounted progressively along the shoe, in combination with a knife mounted for action between the point of operation of the stitch forming devices and the gripping area of the roll to sever the shoe upper as the operation progresses.

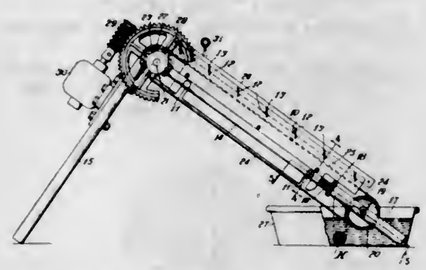
2,615,186
MACHINE FOR LASTING, SEWING, AND TRIMMING SHOES
William G. Birch, Middleton, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application February 16, 1951, Serial No. 211,240
8 Claims. (Cl. 12—1)

1. A machine for lasting stitchdown shoes having a main frame, stitch forming devices in the frame including a needle, upper and sole engaging rolls between which the outturned upper and sole member of a shoe are gripped, a member on which the upper engaging roll is rotatably mounted pivoted on the frame to swing toward and from the sole engaging roll, means for rotating the rolls to feed the shoe and to draw the upper against a last on which the shoe is mounted, a knife slidably mounted with its cutting edge acting between the point of operation of the



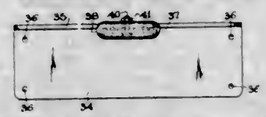
needle and the gripping area of the rolls and mechanism for actuating the knife to sever the upper and sole member, in combination with a work support having a work engaging surface substantially flush with the portion of the roll periphery upon which the sole rests and having shearing means along which the sole passes cooperating with the knife between the needle and the roll and a laterally inclined guideway for the knife.

2,615,187
APPARATUS FOR CLEANING EGGS
James M. Gwin, Hyattsville, Md., and Dean R. Gwin, Tyrone, Pa.
Application January 14, 1948, Serial No. 2,214
3 Claims. (Cl. 15—3.12)



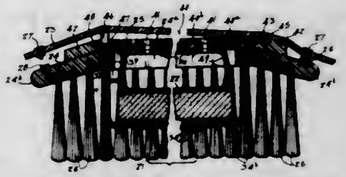
1. In a device of the kind described, an inclined cellular egg-receiving structure having an upper portion and a lower portion, the cells of the structure being formed by spaced intersecting longitudinally extending and transversely extending members, each of the latter being provided with a scraping edge, the transverse members disposed in the lower portion of the cellular egg-receiving structure having a height greater than the transverse members in the upper portion of the structure, each of the cells in the lower portion of the structure being adapted to receive an egg of the length measured along its longitudinal axis greater than the length of the average egg measured along its longitudinal axis, an egg-supporting traveling belt having an upper run extending beneath said structure and constantly moving upwardly of the inclination of the structure to rotate eggs in the cellular structure against said scraping edges, and means to constantly supply said belt with moisture whereby to wet the surfaces of the eggs to be scraped.

2,615,188
DEVICE FOR REMOVING MUD AND DIRT FROM SHOES
Louis L. Siegel, Lakewood, Ohio
Application July 26, 1947, Serial No. 763,812
8 Claims. (Cl. 15—112)



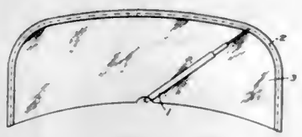
1. In a device of the character described, an elongated member of angular cross-section having a base portion adapted for attachment to a horizontal surface, and an upstanding portion formed integrally with said base portion and coextensive in length with the length of said base portion, flexible shoe scraper blades removably secured to said upstanding portion in longitudinally-spaced relation to each other, with the upper portions thereof projecting above the upper edge of said upstanding portion of said member, and a brush mounted on the upstanding portion of said member between said blades, said brush having bristles disposed adjacent the inner ends of said scraper blades and engageable by the shoe as the shoe is moved across either scraper blade.

2,615,189
STRAP BRUSH FOR BATHING
William Novick, Brooklyn, N. Y.
Application July 16, 1949, Serial No. 105,153
5 Claims. (Cl. 15—122)



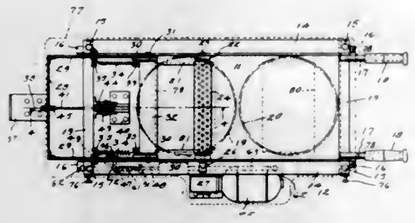
1. A combined brush and soap holder comprising a rigid brush back formed with a central opening, bristles fixedly mounted on the bottom face of said brush back about said central opening, a soap container supported from said back concentric with said central opening to receive a cake of soap passed through said central opening, and a pivotally mounted cover for closing said opening and including a resilient member bearing against the cake of soap in said container for holding the cake of soap against the bottom of said container and said container extended, said back being formed about said central opening with enlarged holes extended upward from the bottom face thereof, said soap container being formed of a plurality of elongated bristle members having their intermediate portions extended along the bottom face of the cake of soap upward along the sides thereof and into aligned holes on diametrically opposite sides of said central opening, said intermediate portions having their free ends extended down and out of said holes forming bristle portions.

2,615,190
EXTENSIBLE ARM WINDSHIELD WIPER
Dan Shaw and William Turner, New York, N. Y.
Application November 15, 1946, Serial No. 710,731
2 Claims. (Cl. 15—255)



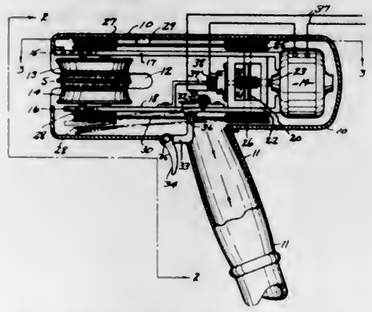
1. A windshield wiper mechanism comprising a swinging and extensible wiper arm assembly having an outer end, an extension on the outer end of the wiper arm assembly, an elongated channeled member formed with an interior track, said channeled member having vertical and horizontal portions and a curved interconnecting portion, shaped to windshield marginal contour, said wiper arm end extension projecting into the channeled member and carrying an element adapted to slide along said track, and an entrance slot in the channeled member for the wiper arm end extension lying between opposing portions of the interior track, the slidable element being of larger dimension than said slot and adapted to be retained in sliding engagement with said opposing track portions.

2,615,191
POWER WRINGER FOR MOPS
Herman B. Brown, Atlanta, Ga.
Application April 12, 1948, Serial No. 20,423
2 Claims. (Cl. 15—262)



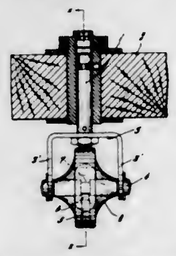
1. A power wringer for mops including a main frame, having upper end members and parallel oppositely slotted upper side members, a power roller journaled in said side members adjacent one end of the slots, an idler roller mounted in said slots for longitudinal and rotary movement therein, motor means for driving said power roller, switch means for actuating said motor means dependingly secured to one of said frame members, an inner U-shaped frame member slidably mounted between said upper side frame members secured to said idler roller, foot actuated means for moving said U-shaped slidable frame to juxtapose said idler roller to said power roller, spring means for returning said U-shaped frame, and means carried by said frame to close said switch when said idler roller is so juxtaposed, said last mentioned means comprising a depending lug carried by said U-shaped frame on the same side as said switch means and an outwardly spring biased horizontal rod carried by said lug engageable with said switch means when said idler roller is in its innermost position.

2,615,192
ROTARY BRUSH FOR CLEANING VENETIAN BLINDS
John P. Morell, Struthers, Ohio
Application July 5, 1947, Serial No. 759,216
3 Claims. (Cl. 15—372)



3. In a Venetian blind cleaning device including a housing having a horizontally slotted inlet opening and a tubular outlet opening, a pair of longitudinally extending, vertically spaced frame members mounted within said housing and positioned one above and one below said horizontally slotted inlet opening, one of said frame members being hinged to said housing at a point remote from said slotted opening, horizontally positioned flat rotary brushes positioned one on each of said frame members in oppositely disposed relation and partially within the said slotted inlet opening, a motor mounted within said housing and means operatively connecting said motor with said brushes, a lever pivoted on said housing engaging said hinged frame member for moving the said movable frame member and the brush thereon with respect to the other of the said brushes whereby a Venetian blind slat positioned in the slotted inlet opening will be simultaneously engaged on its opposite sides by the said brushes, the said tubular outlet opening providing means for attachment of the device to a vacuum cleaner.

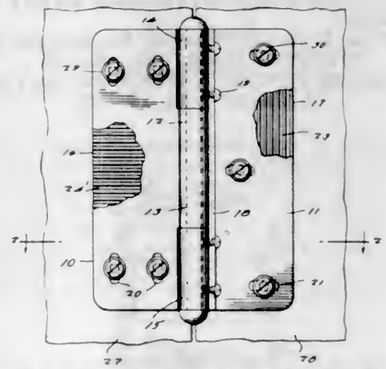
2,615,193
ROTATABLE SUPPORTING MEMBER FOR CONVEYING DEVICES
Bernardus Everardus Jozephus Klijberg, Tilburg, Netherlands
Application May 11, 1949, Serial No. 92,592
In the Netherlands March 17, 1949
4 Claims. (Cl. 16—18)



1. A rotatable supporting member for a conveying device which comprises an axle, means for supporting such axle and a roller mounted on and rotatable with respect to said axle, said roller having a central running surface and closed smooth side walls converging toward and extending to said axle but terminating short of the axle supporting means and forming therewith

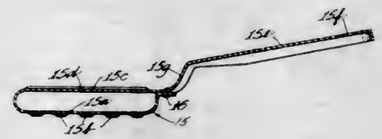
spaces which continuously diverge in a radially outward direction from said axle and means for preventing relative lateral movement between said roller and said axle.

2,615,194
ADJUSTABLE HINGE
Sylvester J. Kreiner, Brunswick, Ohio
Application March 28, 1947, Serial No. 737,847
2 Claims. (Cl. 16—129)



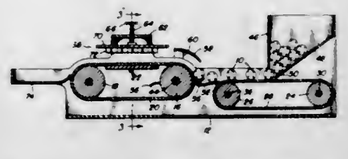
1. In an adjustable hinge, a first hinge leaf comprising a base plate having a side adapted to engage the surface of the object to which said first hinge leaf is to be secured, transverse ribs formed on the other side of said base plate, and a hinge plate overlying said other side of said base plate and formed with transverse ribs selectively engaged between transverse ribs on the base plate, said hinge plate being formed with a longitudinally elongated bolt slot and said base plate being formed with a bolt hole with which the bolt slot is registered, a bolt extending through said bolt slot and through said bolt hole and arranged to be threaded into the object to which said first hinge leaf is to be secured so as to secure said first hinge leaf thereto with said hinge plate adjusted longitudinally of said base plate, a fixed hinge barrel formed on a longitudinal edge of said hinge plate and a hinge pin journalled in said fixed hinge barrel and extending beyond an end of said fixed hinge barrel, a second hinge leaf comprising a second base plate having a side adapted to engage the surface of the object to which said second hinge leaf is to be secured, longitudinal ribs formed in the other side of said second base plate, a second hinge plate overlying said other side of said second base plate and formed with longitudinal ribs selectively engaged between longitudinal ribs on said second base plate, said second hinge plate being formed with a transversely elongated bolt slot registered with a bolt hole formed in said second base plate, a bolt extending through the bolt slot and the bolt hole and arranged to be threaded into the object to which said second hinge leaf is to be secured, an adjustable hinge barrel secured on a longitudinal side edge of the hinge plate of said second hinge leaf, said longitudinally adjustable hinge barrel being journalled on the hinge pin at one end of the hinge barrel of the first hinge leaf and serving to connect the first and second hinge leaves, and securing means securing said adjustable hinge barrel to the hinge plate of the second hinge leaf and to the hinge pin and enabling said adjustable hinge barrel to be adjusted longitudinally on said hinge pin to accommodate a longitudinal adjustment of the hinge plate of the first hinge leaf relative to the base plate of the first hinge leaf.

2,615,195
SCALE LIFTER
Charles E. A. O'Loughlin, St. Paul, Minn.
Application July 24, 1946, Serial No. 685,851
4 Claims. (Cl. 17—7)



1. A device for scaling fish comprising a plate having spaced teeth projecting at the opposite side edges thereof and respectively extending in opposite directions, said teeth being offset so as to lie in a plane slightly below the plane of said plate and inclining upwardly to the plane of said plate at their inner ends, a second plate spaced above said plate and teeth and extending over the same, and a handle joining said plates projecting from said device.

2,615,196
DEVICE FOR CUTTING DESIGNS IN FRANKFURTERS
John Ohanian, Binghamton, N. Y.
Application May 12, 1949, Serial No. 92,931
3 Claims. (Cl. 17—27)

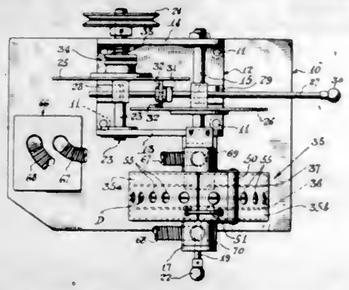


1. A machine for cutting a design in a generally cylindrical food product such as a frankfurter, comprising a frame, a conveyor operatively mounted on the frame, and a cutter having knives arranged according to a design and having cutter edges disposed toward said conveyor, said knives being spaced from said conveyor a distance slightly less than the diameter of the food product, said conveyor including an endless belt and pulleys, said belt having a width less than the length of said food product, and one of said pulleys having feeder fingers at the sides of said belt.

2,615,197
APPARATUS FOR RECONDITIONING PHONOGRAPH RECORD DISKS
Richard M. Somers, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application May 16, 1949, Serial No. 93,433
7 Claims. (Cl. 18—1)

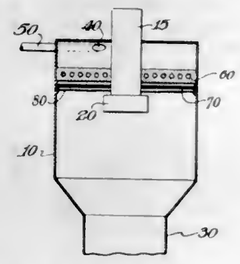
1. In a machine for restoring used thermoplastic phonograph record disks in which grooves have been embossed: the combination of a rotatably-mounted holding means for engaging a central portion of a record disk and supporting the disk for rotation about its geometric axis, means for heating said record disk sufficiently to relieve strains in the disk material, means operable simultaneously with said heating means for rotating said holding means and the disk thereon to maintain the disk flat by centrifugal force while the disk material is in a heated con-

dition, and cooling means including a blower operable simultaneously with said rotating means



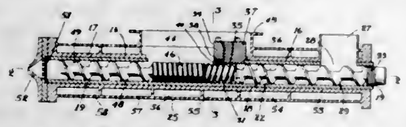
for blowing cool air onto the disk during rotation thereof to set the disk material.

2,615,198
SPINNING APPARATUS AND METHOD
Gordon Neel Flannagan, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 6, 1949, Serial No. 85,825
7 Claims. (Cl. 18—8)



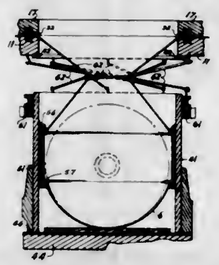
1. In apparatus for the dry spinning of yarns, a spinneret head attachable to a cell comprising a spinneret; a conduit to said spinneret; an inlet for directing an evaporative medium into said head tangentially to the walls of said head, said inlet being situated above said spinneret; a perforated plate and a screen situated between said spinneret and said inlet, said screen having a cross-sectional area greater than that of said cell.

2,615,199
MATERIAL TREATING APPARATUS
Lawrence J. Fuller, Philadelphia, Pa., assignor to Welding Engineers, Inc., Norristown, Pa., a corporation of Delaware
Application May 15, 1945, Serial No. 593,928
23 Claims. (Cl. 18—12)



1. In apparatus for feeding and treating material, a pair of parallel oppositely rotating worms, each worm having a forward feeding flight and a reduced rate reverse feed flight, barrel casings completely surrounding said forward and reverse flights and retaining said material in said forward and reverse flights under pressure for a predetermined distance through said reverse flights and provided with a release orifice in the casing leading from the feed through said reverse flights to a subsequent area of reduced pressure permitting discharge of said material from said reverse flights into said area only after said predetermined distance of travel of said material through said forward and reverse flights.

2,615,200
METHOD AND APPARATUS FOR WRAPPING ARTICLES IN STRETCHABLE SHEET MATERIAL
Charles E. Cloud, Wilmette, Ill., assignor to William S. Cloud, Wilmette, Ill.
Application February 9, 1949, Serial No. 75,322
21 Claims. (Cl. 18—19)

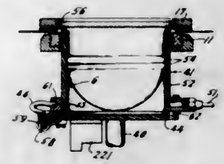


1. Apparatus for enclosing a fill within stretchable sheet material including means for forming a pocket in a portion of the sheet and means for closing the neck of said pocket above a fill in the pocket; said closing means including a constrictor consisting of two independent end elements having connecting elements therebetween successively disposed circumferentially around the neck but each extending longitudinally of the neck between the two end elements of the constrictor, driving means for rotating one end element of the constrictor while restraining the other end element of the constrictor to produce a relative rotation between the two end elements until they pass diametrically opposite positions to draw portions of the connective elements of the constrictor toward the axis of the neck to close the neck and squeeze it while closed, said driving means thereafter further rotating the constrictor to twist the neck directly; and said apparatus including means for restraining one end of the neck during said twisting operation.

21. The method of enclosing fills in stretchable sheet material including the steps of stretching the material to form a pocket while the material surrounding the pocket is held, holding the material in the pocket by suction to hold the pocket stretched, depositing a fill in the pocket, pressing inwardly on the upper portion of the pocket at various points around the pocket spaced between the fill and the held material surrounding the pocket to constrict the upper portion and close it while the lower portion of the pocket, at least during the initial constriction, is held as stated, without gripping the fill.

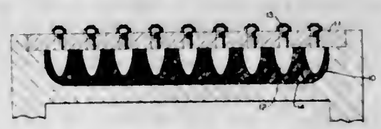
2,615,201
PACKAGING APPARATUS WITH COLLAPSIBLE SEAL
Charles E. Cloud, Wilmette, Ill., assignor to William S. Cloud, Wilmette, Ill.
Application August 3, 1951, Serial No. 240,249
5 Claims. (Cl. 18—19)

1. Pocketing apparatus for film, including means for holding the film in outstretched condition, a shell adapted to be placed in sealed relation to one face of the film, suction aperture means opening within the shell above the bottom thereof, a closure member for the bottom, a resilient tube for sealing the closure member to the shell, means for connecting the tube to the suction aperture means, and suction means communicating with the suction aperture means for



drawing a pocket into the film and for collapsing the tube after the film seals the suction aperture means, to relieve the suction on the lower part of the film and cause it to snap back to flat condition, said tube being stiff enough to resist collapsing until said aperture means is sealed to subject the tube to more suction than was required to stretch the film to seal the aperture means.

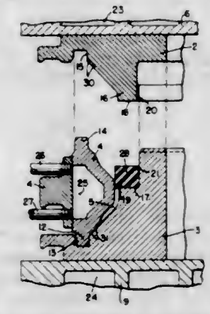
2,615,202
MOLD FOR RUBBER PRODUCTS AND ARTICLE FORMED THEREIN
Joseph Anton Talalay, New Haven, Conn., assignor, by direct and mesne assignments, of one-half to The Sponge Rubber Products Company, a corporation of Connecticut, and one-half to The Dayton Rubber Company, Dayton, Ohio, a corporation of Ohio
Application May 31, 1949, Serial No. 96,355
13 Claims. (Cl. 18—39)



3. A mold comprising a pair of separable mold sections defining a cavity for forming a shaped article therein, and a plurality of pins affixed to at least one of said mold sections to provide molding portions extending into said cavity, each of the molding portions of said pins having a length greater than its width and having a major portion thereof conforming essentially to a semi-ellipsoid.

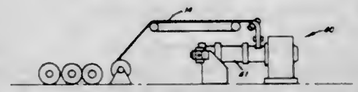
2,615,203
MEANS FOR FORMING AND CURING PLASTIC COMPOUNDS
Sam Du Pree, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application January 9, 1950, Serial No. 137,573
10 Claims. (Cl. 18—42)

2. Apparatus for forming and curing a heat curable moldable plastic compound comprising a multiple-part mold which is provided with heating means and in which at least certain of the mold parts interfit to form an endless mold cavity of narrow, elongated cross-section terminating in opposite marginal extremities and being of the size and shape of the article to be formed from the plastic compound and to define the marginal extremities of said mold cavity; a plastic receiving recess in one of the mold parts disposed intermediate of and in spaced relation to the marginal extremities of the mold cavity as well as extending concentrically of and opening directly into said mold cavity, said recess having a plastic receiving capacity at least equal to that of the



mold cavity; and a plunger portion on another of the mold parts which registers with and substantially completely fills the recess on the first-mentioned mold part when the mold is closed.

2,615,204
METHOD OF PROCESSING SULFUR VULCANIZABLE ELASTOMER COMPOUNDS
Alvin N. Gray, Edgewood, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 13, 1949, Serial No. 92,991
12 Claims. (Cl. 18—47.5)

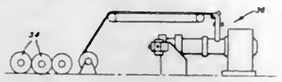


1. The method of processing an ultra-accelerated, elastomer compound including a copolymer of butadiene and styrene as its essential elastomer constituent and sulphur, which comprises introducing all the ingredients of such a compound except the sulphur into a mixer, mixing and working said ingredients of the compound in the mixer, passing the mixed and worked compound directly from the mixer into a strainer, straining the compound in the strainer, milling the sulphur into the strained compound, the working done during the preceding steps being sufficient to partially break down the polymer but insufficient to cause the compound to be smoothly and uniformly extrudable into finished-article form, chilling the entire mass of the compound immediately after the sulphur has been milled therein sufficiently to arrest vulcanization during storage thereof, subsequently introducing the compound into an extruder at substantially room temperature, and extruding the compound and simultaneously working the compound sufficiently to complete the breakdown necessary for smooth, uniform extrusion thereof.

2,615,205
METHOD OF PROCESSING VULCANIZABLE ELASTOMER COMPOUNDS
Alvin N. Gray, Edgewood, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 13, 1949, Serial No. 92,992
12 Claims. (Cl. 18—47.5)

1. The method of processing a highly accelerated, vulcanizable elastomer compound including a vulcanizable elastomer, a curing agent and other ingredients, which comprises working to-

gether in a mixer all the ingredients of such a compound only to the extent necessary to disperse the other ingredients in the elastomer and to effect a part of the breakdown necessary to make the compound smoothly and uniformly extrudable, then before incipient vulcanization occurs cooling the entire mass of the compound to room temperature, introducing the compound into an extruder at room temperature, continu-



ously advancing the cooled compound in the extruder toward and through an article-forming die, severely working the compound in the extruder as it is advanced toward the die to effect the remainder of the breakdown necessary to make the compound smoothly and uniformly extrudable, and cooling the compound as it is thus worked to prevent overheating thereof and to maintain it in work-responsive condition.

2,615,206

DEWATERING THERMOPLASTIC RESINOUS MATERIALS

Paul M. Lindstedt, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application May 20, 1949, Serial No. 94,525

26 Claims. (Cl. 18—47.5)

1. The process of removing water from a mixture containing water and a heat-softenable resinous precipitated irreversible colloid capable of spontaneously agglomerating and having an agglomeration temperature above 100° F. which comprises heating the mixture in an atmosphere containing water vapor in amount sufficient to prevent subtantial evaporation of the water in said mixture and having a wet bulb temperature of at least the agglomeration temperature of the resin to cause the resin to agglomerate and thereby force a substantial portion of the water in a liquid state from the resin, and recovering the desired product.

2,615,207

PROCESS FOR THE PRODUCTION OF NONMETALLIC ROLLS

Charles T. Dickey, Westfield, N. J.

Application April 18, 1950, Serial No. 156,630

3 Claims. (Cl. 18—48)



1. A process for producing rubber printing rolls which comprises the continuous passage in a substantially rectilinear direction of a rubber mix under continued pressure from a supply chamber successively through a smaller chamber and a larger chamber, and thence through a diffuser, thereby causing successive contraction, expansion and diffusion of the rubber mix, passing said treated rubber mix into a chamber having a core therein, thus enclosing said core with an annular coating of said rubber mix, said treated rubber mix being continuously subjected to the withdrawal of inhibited air by suction, and vulcanizing said rubber covered core.

2,615,208

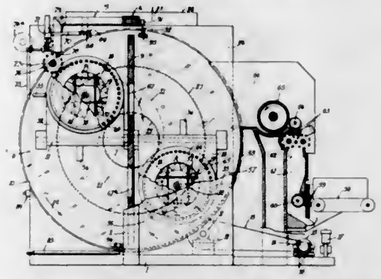
AUTOMATIC FORMING MACHINE FOR THE MANUFACTURE OF FELT HATS, MUFFS, AND LIKE FELT ARTICLES

Marcel Cassé, Essonnes, France

Application August 6, 1948, Serial No. 42,794

In France December 16, 1947

9 Claims. (Cl. 19—148)



1. In a forming machine for the manufacture of felt hoods, a base, a vertical frame forming a framework fixed on said base, a horizontal shaft rotatably mounted on said frame, a rotary vertical support fixed on said shaft, an electric motor fixed on said base, transmission means connecting said motor to said support and shaft for rotating them, an electric mechanical device for controlling the supply of said motor, a manually actuated control contact and an auxiliary control contact both secured on said frame for actuating said device in order respectively to start and to stop said motor, two members secured on said rotary support for actuating said auxiliary control contact so that said support is driven only a fraction of a revolution after said manually actuated control contact has been actuated, said two members being angularly so spaced on said rotary support that said latter stops alternatively in the one and in the other of two angular stop positions, at least one horizontal spindle rotatably mounted on said support and which is rotatable parallel to the shaft of said support but in an eccentric position relatively thereto, a perforated former fixed on said spindle, means mounted on said support for rotating said spindle and said former, a forming tank supported by said base, means fixed to said base for supplying said tank with fur and a device supported by said framework for spraying the hood formed, said forming tank and said spraying device being so disposed with respect to both said angular stop positions of said rotary support that said perforated former is located alternately inside of said tank for one of said stop positions and below said spraying device for the other of said stop positions.

2,615,209

PORTABLE ENCLOSURE

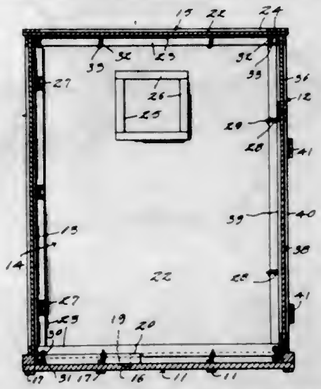
John B. Radart, Minneapolis, Minn.

Application June 3, 1949, Serial No. 96,915

1 Claim. (Cl. 20—2)

A portable enclosure of the character described composed entirely of four units including two substantially flat rigid units and two corresponding units each formed of two rigid sections, the sections of each of said last mentioned units being hingedly connected at complementary ends thereof, said rigid sections forming walls, fastening means detachably connecting the free ends of the section of the two units when the sections of each unit are disposed at right angles to one another, each of said sections including marginal portions composed of at least three plies, certain of said plies being

disposed in stepped relationship, and the plies of different sections being arranged in different stepped relationship to provide interfitting lapped joints between the sections which are hingedly connected and the sections which are connected by said fastening means, one of said rigid flat units comprising a floor having an upstanding marginal frame, said sections having bottom edges resting on said frame and provided with internally disposed depending flanges each forming one of said marginal plies and en-



gaging against a part of the inner side of the frame of the floor and cooperating with the fastening means and hingedly connected portions of the sections and said lapped joints to maintain said sections in rigid upright positions, and said other rigid flat unit constituting a roof supported on the upper edges of said sections in overlapping relationship thereto and having cleats on its inner side abutting against the inner surfaces of said sections for maintaining the upper portions of said sections rigid with respect to one another.

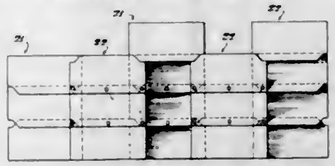
2,615,210

SURFACE COVERING MATERIAL

Frank Washburn, La Fayette, Ind., assignor of fifty per cent to Willis O. Mayne, Pendelton, Oreg.

Application June 1, 1951, Serial No. 229,457

5 Claims. (Cl. 20—5)



1. Siding for building walls and the like comprising, in combination, a vertical row of a plurality of rectangular shingles, each shingle having its lower edge portion overlapping the upper edge portion of the shingle below it; and a second vertical row of a plurality of rectangular shingles, each shingle having its lower edge portion overlapping the upper edge portion of the shingle below it and having a side edge portion thereof overlapping a side edge portion of a shingle in said first mentioned row laterally adjacent thereof; said shingles of both of said rows having a notch at each end of a horizontal side edge thereof, said notches of all of said shingles being substantially identical; said shingles in said first mentioned row being positioned with their notches at the lower edges thereof and said shingles in said second row being positioned with their notches at the upper edges thereof; and said shingles of said first mentioned row each having a notch substantially in registry with a notch of an adjacent shingle in said second row but in the horizontal row below it.

2,615,211

PANEL OF WOOD OR LIKE MATERIAL FOR BUILDING CONSTRUCTION

Charles Fisher Gardner, Aukland, New Zealand

Application May 20, 1949, Serial No. 94,394

1 Claim. (Cl. 20—15)



A panel forming surfacing section adapted to be secured upon a frame building structure, comprising longitudinal runners, cross members securing said runners together in spaced parallel longitudinal relationship, said runners having grooves along their side edges, and lengths of panelling material extending across the spaces between the runners throughout the length thereof with their edges fitting into the runner grooves, said lengths of panelling material being of flexible bendable nature and of a width slightly exceeding the width of the spaces between the bottoms of the grooves in the said runners, so that said panelling material will bulge out of the plane of said sections intermediate the side edges of said panelling material in said grooves and said grooves having their side walls inclined to corresponding to the curvature of the bulged panelling material.

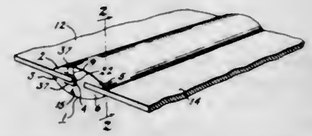
2,615,212

WEATHER STRIP AND REFRIGERATOR GASKET

Howard G. Beck, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

Application August 31, 1950, Serial No. 182,448

7 Claims. (Cl. 20—56.4)



1. A mounting of flexible material for joining adjacent panel edges comprising a pair of spaced opposite grooves, at least one groove of which is formed by a pivoted, opening jaw and a base jaw with a tension web across the base central portion thereof connecting to said jaws at points out from the base thereof with a longitudinal hollow intermediate the tension web and mounting body, said pivoted jaw being pivoted about a line longitudinal of the mounting spaced from the panel contacting face of said jaw whereby tension on said web causes increased pressure at the tip region of said jaw.

2,615,213

MOUNTING

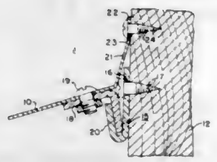
Norman E. Haslop, North Ridgeville, Ohio, assignor to The Lakeside Metal Stamping Co., Cleveland, Ohio

Application May 23, 1950, Serial No. 163,749

3 Claims. (Cl. 20—57.5)

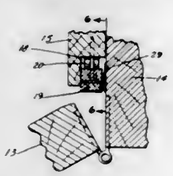
1. In a canopy mounted on a vertical wall, a canopy including a roof portion extending out-

wardly from the vertical wall at a first angle thereto and also including an upturned back edge portion joining the roof portion in a resilient bend line portion and at a second angle thereto, said second angle being greater than said first angle before said canopy is mounted on said wall, a canopy supporting means horizontally secured to said wall, said canopy and said



supporting means having cooperative pivot connections located generally at said bend line, and means between said roof portion and said wall to hold said roof portion at said first angle to said wall and to decrease said second angle when said canopy is mounted on said wall by resiliently bending said bend line portion for causing said back edge to seat tightly against said wall thereby constituting a waterproof flashing.

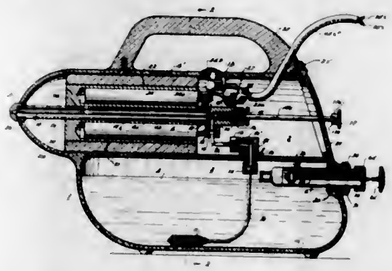
2,615,214
WEATHER STRIP
George C. Hayman, Boulder, Colo., assignor of one-fourth to William D. Friedman, one-fourth to Leo H. Weiss, and one-fourth to David A. Lifshutz, all of Denver, Colo.
Application March 14, 1951, Serial No. 215,551
2 Claims. (Cl. 20—68)



1. A door frame having jambs and a lintel each provided inwardly from its front edge with a door stop, there being a rabbet in the front edge of the stops the open side of which faces the jamb forming therewith a groove, a seal-strip positioned in the groove, a resilient means between the seal-strip and the bottom of the groove urging the strip outwardly, means comprising wood screws for adjusting and limiting the outward movement of the strip to a position in which its outer surface projects a predetermined distance beyond the edge of the stop whereby it will be engaged by the inner surface of a door when it moves to closed position, and spring means positioned between one side of the strip and the adjacent side of the groove in which the strip is positioned to urge it against the other side of the groove.

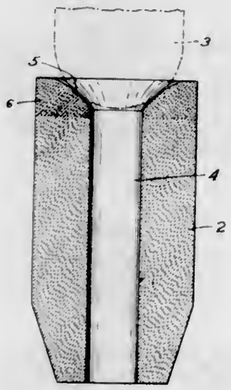
2,615,215
VAPORIZING APPARATUS
Hamilton R. Stagner, Cleveland, Ohio
Application October 5, 1946, Serial No. 701,453
14 Claims. (Cl. 21—119)

1. An apparatus of the class described comprising a closed chamber adapted to contain a liquid and having a filling opening, means for closing said filling opening, an enclosure mounted above the top wall of said chamber, an elongated metallic heat transfer element, non-heat conducting material surrounding said element between its sides, top and bottom and the top of said chamber and the sides and top of said enclosure, means for heating said element, said element being formed with a through opening, a tube extending through said opening and fitting the walls thereof, whereby the tube walls are heated by con-



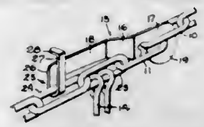
duction by said element, said tube forming a liquid vaporizing chamber and having an opening at its outer end for the discharge of the vapor therefrom, liquid flow connections between said liquid containing chamber and the inner end of said tube, a valve for controlling the flow of liquid through said connections, and pressure supply means for inducing flow of the liquid through said connections to said tube.

2,615,216
NOZZLE FOR METALLURGICAL EQUIPMENT
Edwin E. Slick, Pittsburgh, Pa.
Application June 5, 1948, Serial No. 31,360
2 Claims. (Cl. 22—85)



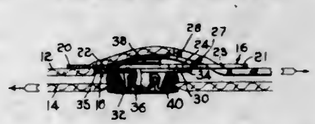
2. A nozzle for metallurgical apparatus comprising a one-piece body having an axial opening therethrough and a seat-forming portion for cooperation with a valve plug at its upper end which is softer at the temperatures and under the conditions in which the nozzle is used than the remaining portion of the body, said body being a fired refractory clay body of uniform composition throughout and having its said upper end impregnated with a fluxing salt by immersing said upper end only in a solution of the salt to thereby lower the softening temperature of said upper end as compared to said lower end.

2,615,217
CHAIN TIGHTENER
Earl A. Stuller, Dixon, Ill., assignor to Columbus McKinnon Chain Corporation, Tonawanda, N. Y., a corporation of New York
Application February 9, 1950, Serial No. 143,177
4 Claims. (Cl. 24—69)



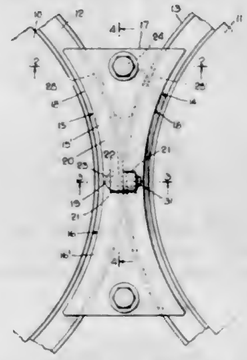
2. A chain tightener comprising an elongated bar having an edgewise opening recess near one end receiving one link of a chain and an adjacent hole receiving another chain link, a U-shaped member rigid with said bar adjacent the other end thereof and adapted to receive a third link of the chain, said U-shaped member having a relatively short leg lying substantially in the plane of said bar and a relatively long leg projecting across said bar beyond one longitudinal edge thereof, and a projection on the end of said relatively long leg extending laterally across said opening of the U-shaped member at a point spaced beyond said bar edge a sufficient distance to permit said projection and said relatively long leg to be threaded through the third link of the chain.

2,615,218
GRIPPING SLIDER TYPE BUCKLE WITH FASTENER MEMBER ON SLIDER
Robert E. Ross, Lowell, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 13, 1950, Serial No. 138,421
1 Claim. (Cl. 24—77)



A buckle assembly comprising a buckle frame for receiving a strap and a slider assembled thereon for movement longitudinally of an assembled strap, said frame having end portions with strap-receiving slots extending transversely of said frame and a medial portion including longitudinal slider support portions and a strap support portion, said slider support portions and said strap support portion integrally connecting said end portions, said slider support portions being disposed in substantially the same plane as said end portions, said slider being formed from one piece of sheet material and having a body portion with strap-gripping elements at the opposite ends disposed in sliding relation with one face of said frame and with the opposite ends adjacent the end portions of said frame and frame-engaging tabs extending integrally from the side edges of said body portion around the opposite outer edges of said slider support portions and overlying said slider support portions securing said slider to said frame in longitudinally sliding relation, said strap support portion of said frame being smoothly arched upwardly from adjacent the end portions to space a strap which may be threaded through said frame away from the portions of the frame-engaging tabs overlying said slider support portions and to provide a smooth upwardly rounded strap bearing surface, said slider having a snap fastener stud member drawn therefrom centrally of the body portion and opposite said strap support portion for cooperating engagement with a complementary fastener member on a support.

2,615,219
DRUM RING CLAMP
Jack G. Imparato, Brooklyn, N. Y.
Application January 20, 1950, Serial No. 139,769
2 Claims. (Cl. 24—81)

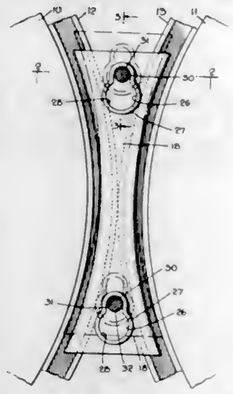


1. A clamp device for use in securing drums having rings on the peripheral surfaces thereof in retaining adjacent drums against displacement, said clamp comprising two pairs of substantially V-shaped plates of the same general size and contour, said plates having registering grooves on adjacent surfaces thereof diverging from one narrow end of the plate to the other wide end thereof, the last named end portion of each plate being apertured to receive a clamp bolt, said plate adjacent the bolt being of greater thickness than at side edges of the plate beyond the limits of said grooves, said grooves converging at the narrow end of the plate, said narrow end portion of the plate having an outwardly projecting apertured member, said apertured member extending beyond said end portion of the plate to register the aperture of the member of one plate with the aperture of the member of a companion plate in a pair, and a coupling pin passed through said registered apertures in securing the plates together.

2,615,220
DRUM CLAMP DEVICE
Jack G. Imparato, Brooklyn, N. Y.
Application May 23, 1950, Serial No. 163,695
2 Claims. (Cl. 24—81)

1. A clamp device for clamping T-ring portions of drums in abutting relationship to each other to retain the drums against relative movement with respect to each other, said device comprising a pair of substantially similar plates having contracted central portions and flared end portions, side edges of each of the plates having inturned flanges, the flanges of one plate being in common alinement with the flanges of the companion plate in clamping T-rings of a pair of drums together in abutting relationship with said T-rings housed within channels of said plates defined by said flanges, end portions of one plate having bolts projecting from inner surfaces of said plate, the other of said plates having, within said flared end portions, registering large and small diameter apertures, through which said bolts are adapted to pass, raised reinforcing walls completely bordering said apertures, nuts on said bolts adapted

to pass freely through the large apertures of the last named plate in detachably coupling said



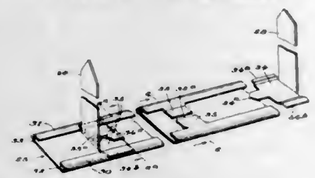
plates, and said nuts engaging the reinforcing walls around the small apertures in clamping the plates together and on the T-rings of a pair of drums.

2,615,221
CLOTHESPIN
Alfred E. Linton, Philadelphia, Pa., and Eugene Tillinger, Brooklyn, N. Y.
Application July 27, 1950, Serial No. 176,202
1 Claim. (Cl. 24—137)



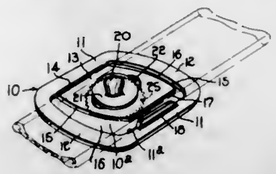
A clothes pin of identical juxtaposed jaw members centrally resiliently connected to one another, an outwardly tapered end portion at both ends of each jaw member, a fulcrum ridge at the inner terminus of the tapered section at one end of each jaw member, a complementary semi-cylindrical groove at the inner terminus of the tapered section of the jaw at the other end of each of said jaw members, and complementary grooves in each jaw located between each of the fulcrum points and the central resilient connection.

2,615,222
PAPER FASTENER
Jaime D. Cayabyab, Binalonan, Pangasinan, Philippines
Application May 8, 1947, Serial No. 746,727
3 Claims. (Cl. 24—153)



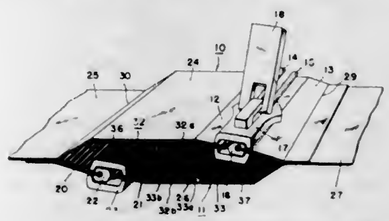
1. In a paper fastener, the combination which comprises an elongated base strip having inturned longitudinally disposed flanges with spaced lugs extended from the inner edges of the flanges and with the flanges positioned on the longitudinally positioned edges of the strip, and vertically disposed tongues having horizontally disposed bases with extended flanges at the edges of the bases and said flanges being offset upwardly for frictional engagement with the flanges of the base strip.

2,615,223
BUCKLE FOR STRAPS AND THE LIKE
William A. Bedford, Jr., North Scituate, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application September 23, 1947, Serial No. 775,645
2 Claims. (Cl. 24—198)



1. A buckle comprising a frame having opposed side portions and opposed spaced end bars providing a strap-receiving opening therebetween, a center piece integral with said frame and extending laterally from one of said side portions across said opening, the free side edge of said center piece being disposed in a plane immediately adjacent a portion of the inner edge of an adjacent side portion and said center piece being of a length substantially less than the distance between the inner edges of said end bars to form strap-receiving slots therebetween, a section of the frame side portion adjacent the free edge of said center piece being transversely curved to provide an angularly extending retaining lug on the inner edge of said side portion of greater width than the spacing between the free edge portion of said center piece and adjacent portion of said side portion, said center piece normally extending at an angle to its connected frame side portion to be disposed in inclined relation to the plane of the frame and with the free side edge thereof disposed above the free upper edge of said retaining lug to provide an open throat therebetween for the ready insertion of a strap between said center piece and above the frame end bars, said center piece being bendable into the plane of the side bars of said buckle and said retaining lug being bendable into overlapping relation with the free side edge portion of said center piece.

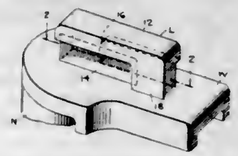
2,615,224
WATERTIGHT SLIDE FASTENER CLOSURE
Ira Shur, Floral Park, N. Y., assignor to Waldes Kohinoor, Inc., Long Island City, N. Y., a corporation of New York
Application May 25, 1950, Serial No. 164,223
2 Claims. (Cl. 24—205.1)



1. A self-contained closure unit for garments and the like comprising two slide fasteners assembled one on the other, each said fastener comprising a pair of companion stringer tapes carrying rows of fastener elements along their adjacent edges which define the fastener opening and a slider for engaging and disengaging said

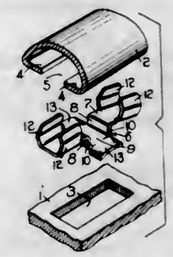
elements, a tape of one fastener and the opposite tape of the other fastener having greater width than their companion tapes whereby said fastener openings are offset laterally from the longitudinal center line of the closure unit and the opening of each fastener is covered by the wider tape of the other fastener, and sealing means completely filling the space between the two fasteners, said sealing means comprising two strips of resilient sealing material whose adjacent edges are complementally formed so as to sealingly engage one with the other generally along said longitudinal center line, each said strip being carried by the wider tape of one fastener element and having width not substantially less than the width of said wider tape whereby it also covers the opening of the other fastener, the faces of the sealing strips adjacent the fastener openings having channels for accommodating the fastener elements and sliders of the respective fasteners.

2,615,225
SLIDER FOR SLIDE FASTENERS
Paul F. Epple, Brooklyn, N. Y., assignor to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey
Application April 11, 1946, Serial No. 661,252
2 Claims. (Cl. 24—205.15)



1. A molded slider having a lug on a wall of the slider for holding a pull, said lug being molded integrally with said wall, a transverse section through said lug in the middle region thereof being T-shaped, and a transverse section through said lug as molded having in the end regions thereof an inverted L-shape, with the L at one end oppositely directed to the L at the other end.

2,615,226
TURN-IN STUD MOUNTING MOLDING SNAP FASTENER
Joseph Kral, Cambridge, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application May 12, 1948, Serial No. 26,497
4 Claims. (Cl. 24—213)



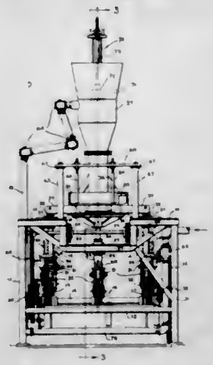
4. A fastener for securing a hollow part to be supported having an opening therein to a support having an elongated aperture, comprising an elongated strip of resilient sheet material having spaced end portions and an intermediate transversely offset section, said transversely offset section including legs extending angularly to said end portions and a head portion disposed in a plane substantially parallel to but spaced transversely from said end portions, each of said spaced end portions being provided with a pair of outwardly bowed snap fastener elements extending substantially normal to said end portions and in a direction opposite the transversely offset section and adapted for snap fastening engagement with an opening in the hollow part, and a support-engaging lug extending laterally from the head portion of the transversely offset section and providing therewith a member of elongated shape to be insertable through the elongated opening in the support and thereupon turned whereupon said lug and spaced end portions frictionally engage opposite faces of a support.

2,615,227
MAGNETIC CLASP COUPLING FOR JEWELRY
Frederick Hornik, Brooklyn, N. Y.
Application November 18, 1949, Serial No. 128,108
1 Claim. (Cl. 24—230)



A magnetic-clasp coupling means for necklaces and the like, comprising a pair of dovetailed magnetically coacting elements, each of said elements being included in a different one of two separable casings, each of said casings carrying apertured ears for facilitating permanent attachment thereto of one of two to be joined terminal sections of the necklace.

2,615,228
BUILDING BLOCK MACHINE
Barrie Regan, Vancouver, British Columbia, Canada
Application December 19, 1947, Serial No. 792,813
4 Claims. (Cl. 25—41)



1. A cement block making machine comprising a supporting frame, a fixed die member supported on said frame, a mould box surrounding said die member mounted on said frame for vertical reciprocative movement, said die member closing the upper end of said box when the latter is in a lowered position and adapted to project from the bottom of the box when the latter is in a raised position, means for raising and lowering said mould box, a platen mounted beneath said die member for vertical movement, means for raising said platen to close the bottom of said box when the latter is lowered, a cement hopper having a

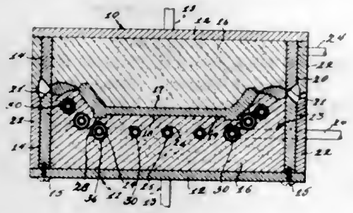
mouth at its upper end and its lower end connected to said box, means mounting said hopper for vertical movement with said box and means for introducing air under pressure into said hopper for ejecting cement from the hopper into the mould box between said die member and said platen.

2,615,229

MOLD AND METHOD OF MAKING MOLDS

Andrew R. Blackburn and Richard E. Steele, Columbus, Ohio, assignors to Ram, Inc., Detroit, Mich.

Application November 12, 1948, Serial No. 59,492
8 Claims. (Cl. 25—129)



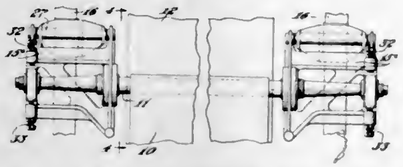
1. In a mold for use in the formation of ware, a porous mold body and means in the mold body for supplying fluid pressure at the face of the mold to effect release of the formed ware comprising a flexible, porous conduit embedded in the porous mold body of varying cross-sectional area at selected points along its length to control the amount of fluid pressure delivered through the porous mold body to the mold face at said selected points along the length of the conduit.

2,615,230

COMPRESSIVE SHRINKING OF WEBS

Sanford L. Cluett, Troy, N. Y., assignor to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York

Application April 30, 1947, Serial No. 744,970
7 Claims. (Cl. 26—18.6)



1. In the art of compressively shrinking a fabric in which a long, heated, rotatably mounted drum of relatively large diameter and a rotatably mounted, long intake roll of relatively small diameter are disposed side by side, with the roll mounted to move bodily in a direction crosswise of its length toward and away from the peripheral surface of said drum, and in which an endless blanket extends under tension over said roll and then around said drum and back to said roll, and in a direction to pull the roll towards the drum, and in which a web of fabric to be shrunk is conducted into face to face, abutting contact with the outside face of said blanket, just before it passes over said roll, to pass between the blanket and drum, that improved method of insuring increased uniformity of the shrinking of the fabric across its entire width which comprises applying oppositely directed and similar forces to each end of the roll beyond the margin of its blanket and in all positions of the roll as it moves toward and from the drum, said forces acting in a plane generally parallel to the direction of pull of the blanket on the roll and tending to flex the mid-portion of the roll oppositely to the direction in which the blanket tends to flex said mid-portion.

2,615,231

TEXTILE PRODUCT

Andrew Harold Little, Welwyn Garden City, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application January 17, 1947, Serial No. 722,747. In Great Britain February 15, 1946
5 Claims. (Cl. 28—73)

1. In a process for the production of textile products, the surfaces of which have a glazed finish and are free from the projecting ends of staple fibres, the step which comprises subjecting to pressure, by a polished metal surface a textile product having as basic constituent fibres which do not substantially change in shape or tensile strength when heated for a short time at a temperature below 200° C. and containing a minor proportion of fibres of the group consisting of polymers of ethylene and hydrolysed interpolymers of ethylene and vinyl acetate, when heated to a temperature at which fibers of the group have a melt viscosity not greater than 50,000 poises the textile product being heated to a temperature and for a time insufficient to damage the other fibres of the textile product and insufficient to fuse the polymer and interpolymer fibers, and cooling the textile product until the fibers of the group are solid.

2,615,232

PRODUCTION OF METALLIC FLUORIDES

John F. Gall, Narberth, and Henry C. Miller, Wyndmoor, Pa., assignors to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application November 8, 1951, Serial No. 255,527
17 Claims. (Cl. 28—88)

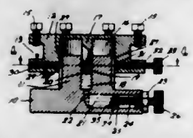
1. The process of preparing cobalt trifluoride comprising reacting, in a substantially anhydrous atmosphere, a cobalt-containing material other than cobalt trifluoride with a substance from the group consisting of chlorine trifluoride and bromine pentatrifluoride at a temperature in excess of 240° C. and maintaining the resulting cobalt trifluoride product in a substantially anhydrous atmosphere until used.

2,615,233

HYDRAULICALLY ADJUSTABLE TOOL POST

Daniel O. Ferris, Denver, Colo.

Application May 4, 1950, Serial No. 160,036
5 Claims. (Cl. 29—48)



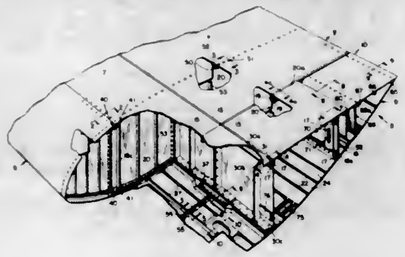
1. A tool post for lathes and the like comprising: a foot member arranged for attachment to the tool rest of a lathe; a cylindrical post mounted on and arising from said foot member; a tool-holding block fitted over said post and having a cavity in its bottom for receiving said post; a plunger affixed to said block extending downward from said block into a receiving bore in said post; said plunger being free to move either axially or circumferentially of said bore; a hydraulic cylinder formed in said foot portion and communicating with said bore; a pump piston in said cylinder; hydraulic fluid in said bore and cylinder; and means for forcing said piston inwardly to cause said fluid to force said plunger upwardly to raise said block.

2,615,234

METHOD OF MAKING AN INTEGRALLY REINFORCED AIRPLANE CONSTRUCTION

Harold F. Dumbleton, Alhambra, Calif., assignor to Western Equipment Company, Los Angeles, Calif., a partnership

Application March 4, 1948, Serial No. 12,906
1 Claim. (Cl. 29—148.2)



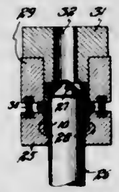
The method of constructing an airplane wing which comprises selecting metal skin sheets of a thickness greater than required for the finished skin, machining said sheets to remove therefrom metal constituting part of the thickness between their ends whereby to leave integral inwardly disposed end flanges, providing bulkhead sheets, assembling said skin sheets end to end and sandwiching a portion of the bulkhead sheets between said flanges.

2,615,235

METHOD OF MAKING FITTINGS FOR COUPLING THE ENDS OF TUBES

Orval P. Hadley, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application March 30, 1949, Serial No. 84,352
1 Claim. (Cl. 29—148.2)



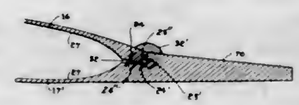
The method of making a fitting for coupling the ends of tubes telescoped therewith comprising the steps of compressing a section of tube lengthwise and controlling its deformation to cause it to buckle intermediate its ends to form an annular recess, supplying powdered brazing material to the recess, and continuing the compression and deformation of the tube section while confining the powdered brazing material in the recess to cause the material to be compacted in the groove to form a self-sustained annulus of the material therein.

2,615,236

BLADE EDGE WELDING TECHNIQUE

Walter H. Stulen, Caldwell, Mathias Klein, Hawthorne, and Edwin L. Tichenor, Montclair, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware

Application June 27, 1947, Serial No. 757,538
1 Claim. (Cl. 29—156.8)



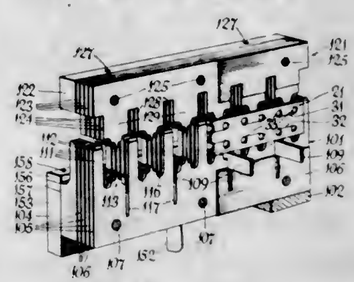
A method of joining two acutely angled metallic members edge to edge, which consists in preparting the edges of the members by grooving an inside edge corner of each, assembling the members in edge-to-edge relation so that the inside corner grooves in each member cooperate to form a larger groove, welding said members along said edges from the sides thereof opposite the sides carying said corner grooves to a depth substantially reaching the bottom face of said larger groove, and then moving a cutting tool along the sides of said members containing said groove and piloting the cutting tool in said groove to enlarge and deepen said groove until the cutting tool enters into the welded metal joining said members.

2,615,237

APPARATUS FOR MAKING CROSS FIN COILS

Stanislaus Przyborowski, Kenmore, N. Y., assignor to Fedders-Quigan Corporation, Buffalo, N. Y., a corporation of New York

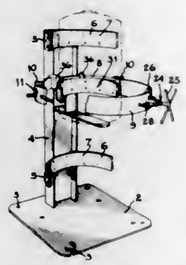
Application April 23, 1947, Serial No. 743,385
3 Claims. (Cl. 29—202)



1. A combined fin supporting and displaced fin restoring apparatus comprising a first set of a plurality of spaced plates between which fins are adapted to be supported on edge, spaced upstanding holding fingers formed on said plates, the edges of the plates between the fingers being formed adjacent said fingers with substantially semicircular die portions merging into tip die portions projecting beyond said semicircular portions, the height of said tip die portions as measured from the base of the semicircular portions being greater than twice the radius of said semicircular portions, a second set of spaced plates formed with die fingers, means to hold said second set aligned with the first named set of plates with the plates lying in a series of common parallel planes, means to hold the sets of plates in spaced relation and to move them into closer proximity while in said planes, said second set of plates being formed with alternate die fingers and slots, said slots having a width and depth to receive the holding fingers of the first set of plates when said sets are moved into close proximity, the die fingers

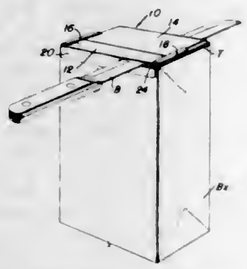
of the second set having a width slightly less than the spacing of the holding fingers of the first set, the edges of said last named fingers being formed with arcuate die portions merging into projecting tip portions also having a height greater than twice the radius of said arcuate portions.

2,615,238
TANK CLAMP SUPPORT HOLDER
William Highwood, Cincinnati, Ohio
Application January 26, 1948, Serial No. 4,241
1 Claim. (Cl. 29—288)



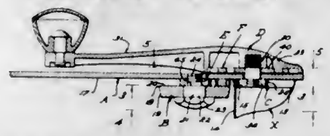
A supporting device for holding a tank comprising a base provided with means for fixing the device to a foundation, a vertical post fixed to the base, a plurality of spaced apart back rest sections for the tank, a band or strap attached to the post between two of the spaced apart back rest sections and in position to encircle the tank, a gate forming a section of the band or strap hinged at one end to another section of the band or strap which is fixed to the post and having a catch on the opposite end for engaging with the fixed section of the band or strap, an accessory base unit provided with a back rest and bottom tank support for being readily detachable from the tank circling band or strap, and means on the band or strap for impinging the tank against the back rest of the accessory unit.

2,615,239
BOX TOP GUARD
Paul M. Allen and Claire M. Allen, Chicago, Ill.
Application October 15, 1951, Serial No. 251,444
2 Claims. (Cl. 30—2)



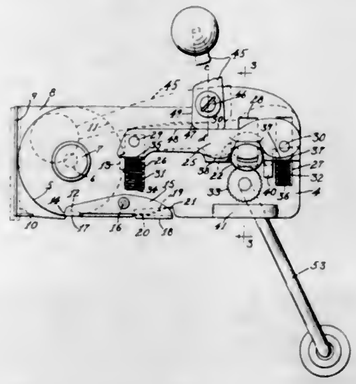
1. A device placeable over the top of a box to slidably guide a knife employed for cutting the top from the box, said device comprising a channel shaped member including a flat web portion and a pair of spaced parallel leg portions joined by said web portion, said leg portions each having a slot at one of their ends, said slots registering with each other and lying in a plane parallel to the plane of the web portion.

2,615,240
CAN OPENING MECHANISM
Harry C. Wilson, Sherman Oaks, Calif., assignor to Robert H. Clark, Los Angeles, Calif.
Application March 1, 1948, Serial No. 12,251
10 Claims. (Cl. 30—9)



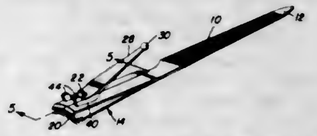
1. An opener operable on a can having a side and a bead joining a top to the side including, a body, a shear carried by the body and adapted to engage the side of the can beneath the bead, a feed wheel carried by the body adapted to engage the inner side of the bead, and a resilient pressure shoe carried by the body, the shoe having sliding frictional engagement with the outer side of the bead opposite the feed wheel, the shoe having a concave can engaging face.

2,615,241
CAN OPENER
J. Richard Lawrence, Worcester, Mass., assignor to The Washburn Company, Worcester, Mass., a corporation of Massachusetts
Application May 24, 1947, Serial No. 750,325
5 Claims. (Cl. 30—9)



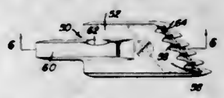
1. A can opener comprising a frame plate disposed in a substantially vertical plane, a can propelling roller carried thereon having a toothed periphery disposed for engagement with the bottom edge of the top flange on a can placed next to the frame plate, means for turning said roller to turn the can, a cutter wheel having a toothed propelling roller in close coaxial relationship therewith arranged for engagement on top of the flange on the can to turn the cutter wheel as the can is turned, an elongated plate disposed in a plane parallel to the frame plate with its lower edge portion substantially horizontal so as to lie substantially parallel to the top of a can being opened, said elongated plate being slidable on the frame plate for movement bodily up and down relative to the frame plate, two resilient means yieldingly supporting the ends of said elongated plate for said up and down movement and tending to urge said elongated plate to a raised retracted position, means rotatably mounting said cutter wheel and its propelling roller on said elongated plate intermediate its ends and above said can propelling roller so that said cutter wheel pierces the top wall of the can alongside the flange and its propelling roller firmly engages the top of the flange for traction when the elongated plate is moved downwardly from retracted raised position to operative position, two horizontal projections on the lower edge of said elongated plate disposed in a substantially vertical plane in longitudinally spaced relation on opposite sides of said cutter wheel disposed for slidable guiding engagement on top of the flange on the top of the can during the can opening operation so as to maintain a predetermined depth of penetration of the cutter wheel in the can top and of the teeth of its propelling roller in the top flange while maintaining a predetermined depth of penetration of the teeth of the can propelling roller in the bottom edge of the flange, and means disposed intermediate the ends of the movable plate and substantially midway between the two resilient means for positively moving the same downwardly a predetermined distance but with freedom to adjust itself in angularity so that both projections ride evenly on said top flange.

2,615,242
COMBINATION FINGERNAIL FILE, FINGERNAIL CLIPPER, AND POCKET CLIP
Richard J. Franklin, Bismarck, N. Dak.
Application July 5, 1951, Serial No. 235,191
1 Claim. (Cl. 30—28)



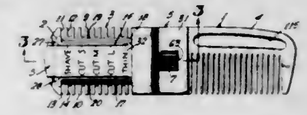
A manicure instrument of the character described comprising a pair of elongated, resilient, divergent jaw members secured together at one end, coacting blades on the free ends of said members, a headed, notched rivet swivelly mounted on one of the members and extending rotatably through the other of said members, said other member having longitudinal grooves therein adjacent the rivet, and a reversible operating lever for closing the members, said lever including furcations on one end straddling the rivet, a pin extending between the furcations at an intermediate point and engaged in the notch of the rivet for operatively connecting said lever thereto, longitudinal cams on one side of the furcations inwardly of the pin and engageable with said other member for closing the members when the lever is in operating position, and lips on the other side of the furcations outwardly of the pin, operable in the grooves and engageable with said other member for securing the lever in reversed position.

2,615,243
HAIR TRIMMER
Royce M. Brown, Albuquerque, N. Mex.
Application May 15, 1950, Serial No. 161,983
2 Claims. (Cl. 30—30)



1. A manually actuable self-servicing hair trimmer adapted to be held in the user's hand and advanced by way of a predetermined path from a low toward a high position to, in this manner, clip the hair shafts in a direction from their free outer ends toward their inner rooted ends comprising a scalp contacting base plate having an oblique leading edge with forwardly projecting teeth all of said teeth being the same in length, pointed and triangular in cross-section and having their pointed ends on a line which corresponds in obliquity with the obliquity of said leading edge, a blade assembling and clamping plate superimposed upon and separably fastened to said base plate and provided with a central axially disposed finger grip, and a cutting blade interposed between said plates and secured therebetween, the cutting edge of said blade and leading edge of said clamping plate both being oblique and having their obliquities corresponding with the first-named oblique edge.

2,615,244
REVERSIBLE HAIR TRIMMER
Warren M. Mansfield, Glendale, Calif., assignor, by mesne assignments, to Cutter Corporation, a corporation of Delaware
Application January 24, 1949, Serial No. 72,413
7 Claims. (Cl. 30—31)



1. A hair trimmer comprising a comb embodying laterally spaced opposite sets of teeth having parallel base lines, a bridge on, and spaced from, said comb between said sets of teeth and providing a recess open at its opposite sides adjacent both of said opposite sets of teeth, a blade holder slidably fitting in said recess for movement lengthwise of said sets of teeth such movement causing said holder to recede with respect to the teeth of one of said sets and correspondingly advance with respect to the other of said sets of teeth, a partial bearing support disposed in said bridge and a complementary bearing support in said comb, a shaft extending lengthwise of said comb rotatably mounted in said bearing supports, a pinion in one end of said shaft, a cooperating rack on said blade holder, a guide slot for said rack in said bridge, said holder having lugs for removably receiving a razor blade, said bridge having an aperture and said comb having an opposite aperture and said shaft having a knob one side of which projects through one of said apertures and the opposite side of which projects through said other aperture.

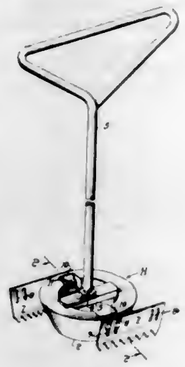
2,615,245
PLUG CUTTER HAVING AN EJECTOR
Charles F. Schaumleffel, Zanesville, Ohio
Application February 8, 1949, Serial No. 75,180
1 Claim. (Cl. 30—130)



A plug cutter comprising a sleeve having a portion for facilitating gripping of the same and a reduced portion with cutting teeth at its end, means for ejecting a plug cut by said teeth comprising spaced cylindrical members reciprocable within said sleeve, a rod having an end connected to one of said cylindrical members and its other end connected to the other of said cylindrical members, means locking said rod to each of said

cylindrical members, a collar fixed within said sleeve between said spaced cylindrical members, and a spring surrounding said rod and extending between said collar and said cylindrical member remote from said teeth for urging said ejecting means towards the retracted position, the cylindrical member engaged by said spring being extended beyond the end of the sleeve to form an operating head against which pressure may be applied to move the plug ejecting means axially within said sleeve for expelling a plug cut by said teeth.

2,615,246
LAWN TRIMMER
Arthur L. Littig, Altadena, Calif.
Application July 20, 1950, Serial No. 174,895
4 Claims. (Cl. 30—300)



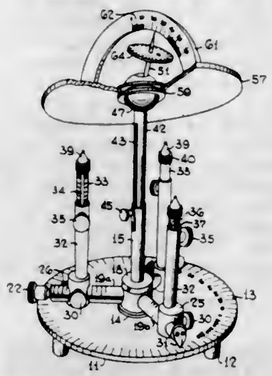
1. A device for trimming sod from around a sprinkler, comprising a frusto-conical body having an axial passage therethrough and positioned when in use with its smaller end down to rest on the sod, a handle member attached to the larger end of said body to extend upwardly therefrom, a pair of elongate blades, each having a longitudinal cutting edge, and means securing an end of each blade to the inclined outer face of the body to extend tangentially of the body face, said blades being joined to the body at opposite sides of the latter and having their free ends extending in opposite directions.

2,615,247
TOOL HANDLE FASTENING
Dorse M. Waters, Belmont, N. Y.
Application June 6, 1950, Serial No. 166,477
2 Claims. (Cl. 30—342)



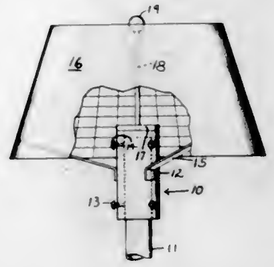
1. A knife comprising in combination, a blade provided with a rearwardly extending tang, a plurality of handle forming discs mounted upon and extending the full length of the tang, a handle cap having a toothed locking pin secured thereto, the tang having a toothed slot therein, the teeth of the locking pin and the teeth of the toothed slot in locked engagement when the locking pin is driven into the slot, the inner surface of the handle cap contacting the outermost discs to compress the same and hold the discs upon the tang.

2,615,248
TRUE DIP DETERMINING APPARATUS FOR WELL LOGGING
Alexander B. Hildebrandt, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application April 21, 1951, Serial No. 222,239
6 Claims. (Cl. 33—1)



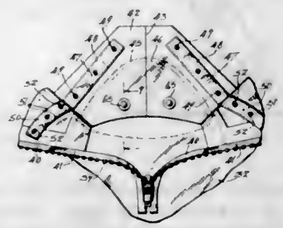
1. A device for computing the angle and direction of true dip of a subsurface stratum encountered by a borehole from indicia relating displacement of at least three uniformly spaced profiling arms in contact with the walls of the borehole with respect to the center thereof, the azimuthal orientation of one of said arms and the direction and extent of inclination of said arms from the vertical, comprising: a base, an azimuthal scale positioned in a horizontal plane on said base, a rotatable member supported on said base with its center of rotation coincident with the center of said scale, indexing means relating the position of said rotatable member to said azimuthal scale, at least three vertically extendable arms, means supporting said arms vertically in vertical planes equally spaced radially about said center of rotation, said last named supporting means being supported by said rotatable member and adapted for lateral motion with respect to said center of rotation while maintaining said arms at all times in a vertical position, a central vertical shaft supported by said base over said center of rotation, fixed against rotation with respect to said base but adapted for vertical slidable movement with respect thereto, a first circular plate pivotally attached to said vertical shaft for multidirectional movement into a plurality of planes each of which embraces the same fixed point on the center line of said vertical shaft, a pointer member held adjacent its lower end for pivotal movement on a fulcrum coincident with said last named fixed point, a second circular plate fixed to said pointer adjacent its upper end and perpendicular thereto and provided with an azimuthal scale, and a semicircular plate attached to said first circular plate in a plane perpendicular to said first circular plate and passing through the center thereof, said semicircular plate having a central opening of sufficient size to clear said pointer and said second circular plate, said extendable arms being provided with scales indicative of vertical extension from a selected datum point, said rotatable member carrying scales indicative of lateral displacement of said vertically extendable arms from said center of rotation, and said semicircular plate being provided with a scale accessible to said pointer indicative of the dihedral angle formed by a horizontal plane and the plane of repose of said first circular plate.

2,615,249
ATOMIC AIR BURST DIRECTION FINDER
Gerard A. Allard, Schenectady, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application November 8, 1951, Serial No. 255,501
1 Claim. (Cl. 33—1)



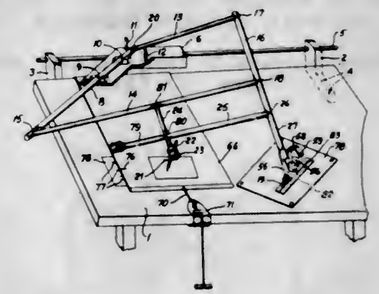
An atomic explosion direction indicator comprising a vertical standard, a sleeve adjustably supported by said standard a sheet metal, truncated conical indicating surface supported by said sleeve, a heat scorchable painted coating on the interior of said indicating surface, azimuth and elevation markings on said painted coating, an indicating rod supported by said sleeve and arranged axially of said indicating surface, and a sphere mounted on the upper end of said rod, said rod and said sphere being arranged to cast a shadow on said indicating surface, whereby heat from an atomic explosion will scorch a pattern on said surface indicative of the azimuth and elevation of said explosion.

2,615,250
FITTING CANVAS FOR FUR GARMENTS OR THE LIKE
Abe Fessler, Maplewood, N. J.
Application December 30, 1949, Serial No. 135,961
6 Claims. (Cl. 33—15)



1. In a fitting coat having a back section and a pair of like but opposed front sections with adjacent side edges and adjacent shoulder portions having adjacent top edges, said side edges and said top edges being extended in opposite directions from armhole openings formed in said back section and said front sections, fasteners releasably securing together the adjacent top edges of the sections, a triangularly shaped shoulder section positioned within each of said shoulder portions of the coat with their base sides facing outward and flush with the edges of said sections defining the upper halves of said armhole openings, said shoulder sections having the ends of their base sides located at diametrically opposite sides of the armhole openings on a line extended horizontally across the center of said armhole openings and spaced equally on opposite sides of said fasteners, stitches securing the ends of the base sides of said shoulder sections to the inner faces of the back and front sections, fasteners releasably securing together the adjacent faces of said shoulder sections and the shoulder portions of the front and back sections on opposite sides of said first-mentioned fasteners, sleeves having top openings conforming in size to the size of the armhole openings, stitches securing the lower halves of the material of said sleeves defining their top openings to the material of the front and back sections defining their armhole openings below the level where said first-mentioned stitches secure the ends of the base sides of said shoulder sections to the front and back sections, and stitches securing the upper halves of the material of said sleeves defining their top openings to the base sides of said shoulder sections.

2,615,251
AXONOMETRIC DRAWING DEVICE
Howard M. Edmunds, New York, N. Y.
Application December 16, 1950, Serial No. 201,147
4 Claims. (Cl. 33—25)

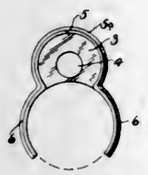


4. A reproducing device, including, in combination, an elongated support, means carried by the support movable bodily along the support, a first pivot on the means, a second pivot on the means, links, one pivoted to each pivot and extending in the same direction from the means, a third link pivotally connecting the first two mentioned links, said third link including an extension extending beyond the pivot point between the second and third links, a tracer carried by the said extension, additional links forming with the link pivoted to the second pivot and the third link, a pantograph parallelogram, an extension carried by one of said additional links and a marking point carried by said last named extension whereby the marking point is actuated by movement of the tracer.

2,615,252
GUN SIGHT
Dee A. Wing, Newaygo, Mich.
Application October 11, 1948, Serial No. 53,851
1 Claim. (Cl. 33—47)

A gun sight comprising, a block of clear transparent material, having a recess lengthwise thereof at its under side in substantial conformity to the upper side of the rear portion of a gun barrel, said block having a hole therethrough lengthwise and axially thereof and a metallic clip comprising a length of metallic material formed intermediate its ends in the form for application to and located over and

gripping said block at its sides and conforming to the surface of the block therearound from one end of said recess in the under side of the block to the other, said clip at each end portion having a downwardly extended generally arc shaped leg, one adapted to be located at each side



of said gun barrel and grip said barrel, said block being permanently secured above said legs to said clip, whereby the opening through the block is disposed above the upper side of a gun barrel and substantially parallel thereto when said sight is attached.

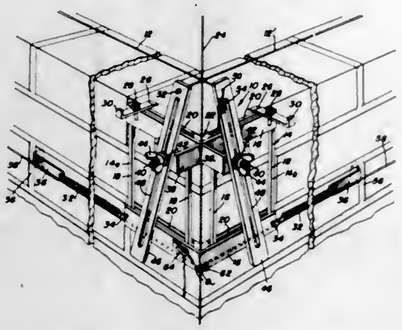
2,615,253

LINE HOLDING DEVICE FOR BRICKLAYERS

Maurice R. Weathers, Shelby, N. C., assignor of fifty per cent to Charles E. Wallace, Jr., Shelby, N. C.

Application August 27, 1951, Serial No. 243,880

5 Claims. (Cl. 33—85)



1. A line holding device of the character described, comprising an angular frame adapted to abut a corner of the work, work engaging means for anchoring the frame in position, a laterally projecting element provided on said frame, and a longitudinally slotted arm swingable and slidable on said element in a vertical plane, the upper end portion of said arm projecting above said frame and being provided with means for anchoring a line thereto.

2,615,254

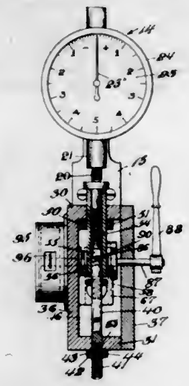
GAUGING APPARATUS

John H. Worthen, Providence, R. I., assignor to Federal Products Corporation, a corporation of Rhode Island

Application December 23, 1948, Serial No. 66,878

5 Claims. (Cl. 33—172)

5. An accumulator for use in gaging pieces of work comprising a measuring rod having two relatively moving parts, means to reciprocably mount said rod for axial movement, clutch means to fix said rod parts together for movement as a single unit, means including a rotatable shaft to operate said clutch means and release said rod parts, said shaft having means attached thereto to engage one of said rod parts and vary the relative length of said rod by endwise move-



ment of said parts into engagement with a work piece.

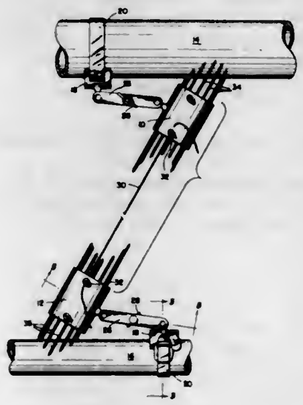
2,615,255

DELINEATOR FOR DETERMINING THE LENGTH AND END FORM OF CONNECTING PIPES

Robert C. Rankin, Seattle, Wash.

Application March 7, 1950, Serial No. 148,209

5 Claims. (Cl. 33—175)



1. A delineator for determining the length and end forms of a connecting pipe, comprising: a pair of conformators; said conformators each including a base having a round bore adapted to slip over the connecting pipe to be delineated, a multiplicity of scribing pins disposed in a circle about said bore, and means for adjustably securing said pins in longitudinal position; a member associated with each conformator, connected at one end to said conformator by a ball and socket joint and said member having clamp means, connected to the other end of said member by a ball and socket joint, for securing said member to a pipe to which said connecting pipe is to be connected, said member having adjustable locking means for locking said ball and socket joints; and a tension wire having one end releasably secured to one conformator and having its other end secured to the other conformator, said wire being flexible and permitting free movement of said conformators toward each other.

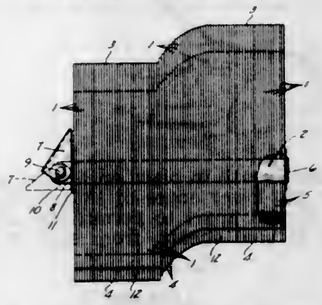
2,615,256

CONTOUR GAUGE

Harry L. Olson, Minneapolis, Minn., assignor to Ckola Company, Minneapolis, Minn., a corporation of Minnesota

Application May 17, 1951, Serial No. 226,788

2 Claims. (Cl. 33—175)



1. A contour gauge comprising a plurality of contour indicating fingers mounted in side-by-side parallel relationship, said fingers being of uniform dimensions and each having a longitudinally extended slot intermediate its ends, a plate-like mounting bar extending transversely through said slots, said mounting bar being of a thickness only slightly less than the width of said slots, whereby to permit limited longitudinal sliding movements of said fingers with respect to said bar and to each other and having sufficient width to prevent rotation thereof in said slots, and cooperating clamping elements on the opposite ends of said mounting bar laterally outwardly of said fingers, one of said clamping elements comprising a flange rigidly mounted on said bar and engageable with the adjacent finger, the other of said clamping elements including a cam-acting lever pivotally mounted on the other end of the bar, said lever being movable in one direction of pivotal movement to permit longitudinal sliding movements of said fingers with respect to each other and to the mounting bar, and in the opposite direction of pivotal movement to compress said fingers together whereby to frictionally lock the same against said sliding movements.

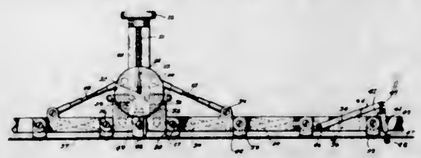
2,615,257

ARC FORMING FLEXIBLE RULER

William Q. Sullivan, North Hollywood, and John Q. Sullivan, Ocean Park, Calif.

Application July 26, 1947, Serial No. 763,846

3 Claims. (Cl. 33—177)



1. A device of the class described comprising a frame, primary links pivotally connected to opposite sides of the frame for swinging movement relatively thereto, secondary links pivotally connected to the outer swinging ends of the primary links for swinging movement relatively thereto, means for simultaneously swinging the primary links equally relatively to the frame and causing the secondary links to swing relatively to the primary links in amounts equal to the movements of the primary links relatively to the frame, a bendable spline, bearing means at the pivotal connections between the primary links and the frame and between the secondary links and the primary links engageable with the spline and against which the spline may be bent to conform to the arc of a circle, and means engaging the ends of the spline for holding the spline against said bearing means.

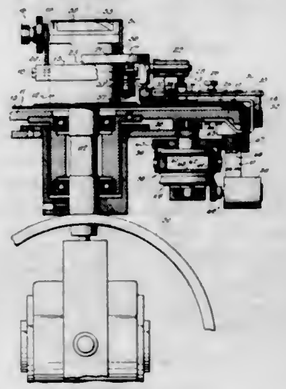
2,615,258

SPEED CORRECTION GEAR FOR GYRO COMPASSES

Leslie F. Carter, Leonia, N. J., assignor to The Sperry Corporation, a corporation of Delaware

Application October 23, 1947, Serial No. 781,737

3 Claims. (Cl. 33—226)



1. In a meridian-seeking gyrocompass for navigable craft having its compass member including a compass card and phantom element all universally supported on the craft and adapted to rotate about a vertical axis, said compass further including a shiftable lubber line adapted to be read against said compass card, a device for correcting the indications provided by said gyrocompass comprising an inclinable cosine cam ring pivotally supported on the phantom element in coaxial relation to the vertical axis of said compass member, means for adjusting the inclination of said cam ring, said means including a chart plate calibrated in terms of craft speed and craft latitude and a cooperating settable cursor operable by said cam adjusting means, said cam ring and chart plate each being symmetrically arranged relative to said vertical axis whereby no tilting torques are imparted thereby to said compass member, a cam follower engaging said cam ring and actuated thereby and arranged to move in azimuth with said craft, the displacement of said cam follower being dependent upon the adjusted inclination of said cam ring and the craft course angle, and means operable by said cam follower for shifting said lubber line.

2,615,259

DIELECTRIC HEATING APPARATUS PREFERABLY FOR HEATING GAS-POROUS MATERIAL

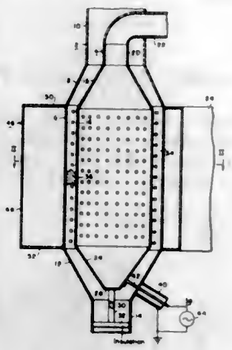
Marion E. Wade, Kansas City, Kans., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 28, 1950, Serial No. 146,678

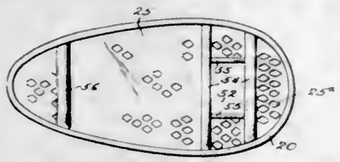
9 Claims. (Cl. 34—1)

1. Dielectric heating apparatus of a type described comprising a pair of relatively insulated tubular upstanding heating-electrodes, each of

said heating-electrodes being perforated across its surface, said heating-electrodes being nested with radial spacing to provide a work-heating space therebetween, means for supplying high-frequency energy to said heating-electrodes, and means for feeding work to be heated to said work-heating space, a fluid medium supply member positioned on one side of a first of said heating-electrodes, said fluid medium supply member surrounding said first heating-electrode, and a fluid medium exhaust member positioned adjacent the other of said heating-electrodes to remove said fluid medium from the side of the last-said heating-electrode which is opposite said first heating-electrode.



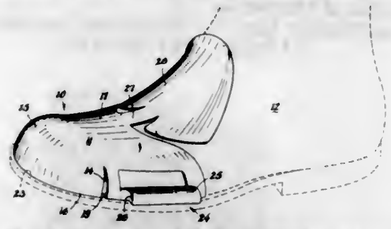
2,615,260
SNOWSHOE
Frederick T. Paden, Collingwood, N. J.
Application October 10, 1950, Serial No. 189,465
2 Claims. (Cl. 36—4.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A snowshoe comprising an open frame, a web secured to the frame, and reinforcements secured to and extending across the opening in the frame; said web comprising a plurality of superposed perforate layers of material; and means for bonding said layers together and to the reinforcements, with at least two of said layers being on opposite sides of the reinforcements.

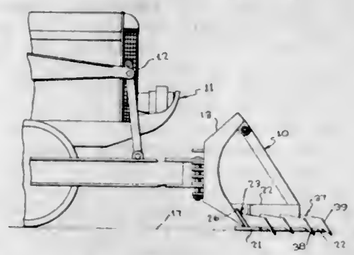
2,615,261
SAFETY SHOE GUARD
Marion La Grotto, Indianapolis, Ind.
Application May 17, 1952, Serial No. 288,444
11 Claims. (Cl. 36—72)

1. A detachable safety guard for the forward portion of a shoe upper comprising a sheath formed to enshroud the fore-part of such shoe upper and having a pair of lateral notches opening through the lower edges of said sheath, such notches being substantially symmetrical on opposite sides of the median plane through said sheath and spaced rearwardly from the toe end thereof to effectually divide said sheath into a toe cap portion and a metatarsal shroud portion, the lower opposite edges of said shroud portion being provided with inwardly-extending flanges, said flanges each being serrated and adapted to be inserted between the upper and the welt to



clamp said sheath in place on a shoe, and means whereby the lower edges of said shroud portion may be spread apart to permit the affixing and removal of said sheath from such shoe upper.

2,615,262
CUTTING ATTACHMENT FOR LAND-CLEARING EQUIPMENT
Charles Eckford Reid, Sr., Greenville, Miss.
Application September 8, 1950, Serial No. 183,847
2 Claims. (Cl. 37—2)

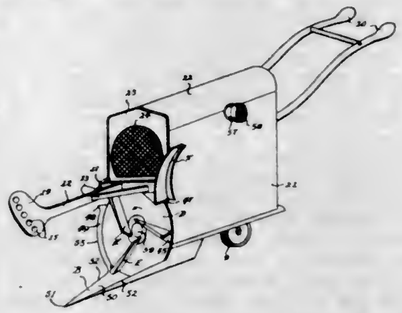


1. A cutting attachment for a bulldozer including a mobile body and a vertically disposed moldboard arranged transversely and forwardly of said body and supported thereon comprising a frame adapted to be positioned forwardly of and in parallel spaced relation with respect to said moldboard adjacent the lower end of the latter, said frame including a horizontally disposed section adapted to traverse a ground surface to be cleared and a vertically disposed section projecting from the trailing edge of said horizontally disposed section, the leading edge of said horizontally disposed section being provided with a cutting edge, an upstanding attachment bar adapted to be arranged in confronting and abutting relation with respect to said moldboard and provided with means for securement to the latter, spaced upstanding supporting plates extending between and secured to the vertically disposed section of said frame and said attachment bar, and an upstanding brace bar having the lower end fixed to the upper end of the vertically disposed section of said frame and having the upper end provided with means for attachment to the moldboard adjacent the upper end thereof.

2,615,263
DRAIN DIGGER AND CLEANER
Herbert Barras, Baldwin, La.
Application May 14, 1946, Serial No. 669,656
4 Claims. (Cl. 37—92)

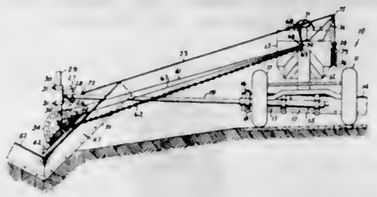
1. In a ditching machine adapted to be disposed in and progressed longitudinally of a narrow drain ditch or the like, a frame having an engine mounted thereon, ground engaging wheels

supporting said frame, an engine driven shaft extending longitudinally of the machine and carrying on its outer end at the front of the machine a disc, a scoop-like plow extending from the bottom of said disc forwardly and terminating in a point, said plow being U-shaped in cross sectional configuration and of substantially a triangular shape with the point of the plow being



the apex of the triangle, the longitudinal edges of said plow being knife edges, said disc provided with substantially radially extending blades the outer ends of which rotate across the inner end of the plow to engage and lift dirt from said plow end, said blades provided with a knife edge for cutting dirt engaged by the blades, and said blades acting to discharge the cut dirt from the ditch at one side thereof.

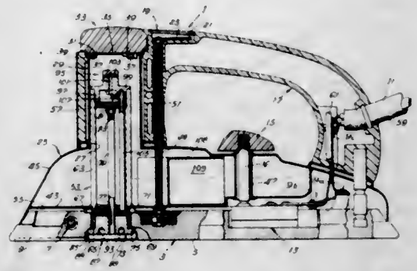
2,615,264
SHOULDER AND DITCH GRADING MACHINE
Fenner L. Satterthwaite, Kinston, N. C.
Application June 21, 1948, Serial No. 34,288
1 Claim. (Cl. 37—108)



A road grader including a normally adjustable grader blade, a boom adjustably secured to said grader blade whereby the effective length of said boom may be varied, a standard, means securing the standard to the outer end of the boom, said means including means for permitting the standard to be adjusted vertically and means for permtting the standard to be rotated on a longitudinal axis about the end of the boom, a scraper blade, means connecting the scraper blade to the lower end of the standard including means for permitting the scraper blade to be rotated on a longitudinal axis about the lower end of the standard.

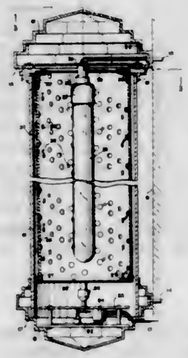
2,615,265
STEAMING AND PRESSING IRON
Henry Maykemper, Milwaukee, Wis., assignor to National Pressure Cooker Company, Eau Claire, Wis., a corporation of Wisconsin
Application November 14, 1947, Serial No. 785,897
15 Claims. (Cl. 38—77)

1. In a steam iron, in combination, a sole plate having a pressing face, heating means in heat conducting relation with the sole plate, a boiler adapted to hold water, means including a chamber for conducting steam from the boiler to the pressing face of the sole plate, an inlet to said chamber and an outlet, a surface within said



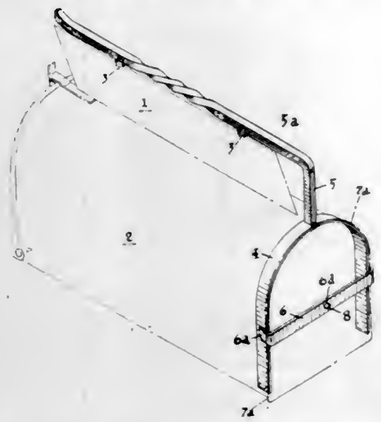
chamber for collecting water trapped therein, a conduit leading from a point adjacent said surface and terminating adjacent the inlet whereby collected water may be atomized by steam entering the chamber through the inlet.

2,615,266
SPARKLING BARBER POLE
Charles M. Wallin and Thomas W. Frazier, Louisville, Ky.
Application December 13, 1949, Serial No. 132,733
2 Claims. (Cl. 40—126)



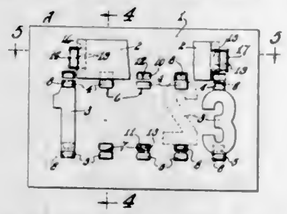
1. A barber pole comprising a pair of vertically spaced supports, a transparent outer cylinder fixed at its opposing ends on the supports, motor means mounted on one of said supports, an opaque cylinder mounted for rotation in the outer cylinder, drive transmitting means connected between said opaque cylinder and the motor means, illuminating means carried by the other support and disposed within the opaque cylinder to illuminate the interior thereof, said opaque cylinder being formed with relatively large openings arranged in a spiral pattern, strips of variously colored translucent material spirally wound interiorly on the opaque cylinder and enclosing the openings therein, said strips being formed with minute spaced openings arranged to allow direct passage of light rays from said illuminating means, whereby the direct light rays from said illuminating means provide a sparkling effect against the illuminated strips of colored translucent material.

2,615,267
MAILBOX NAME PLATE SUPPORT ATTACHMENT
Howard G. Brower, Nashville, Tenn.
Application September 30, 1950, Serial No. 187,710
4 Claims. (Cl. 40—128)



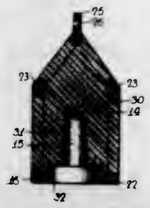
1. For use with a standardized rural-type mail-box, or a like receptacle, having side walls and an end wall connected thereto by a flanged joint extending approximately in the plane of said end wall outwardly beyond said side walls, a name-plate-supporting attachment comprising: a pair of vertically extending relatively rigid members adapted to grip opposite side walls of said box, relatively rigid connecting means extending between and holding said members assembled in box-embracing relationship, said means having a relatively straight central portion for lying along an end wall of a standardized mail box and having bent-over end portions for attachment to the outer surfaces of said vertical members, said central portion being spaced slightly from said members and forming with said members grooves for snugly embracing said flange of said box, and an arm-member connected to said attachment for supporting a name-plate in desired juxtaposition to said box.

2,615,268
DOUBLE-FACED SIGN CONSTRUCTION
Richard G. Hamilton, Westfield, Mass., assignor to Colonial Art Co. Inc., Westfield, Mass., a corporation of Massachusetts
Application May 20, 1949, Serial No. 94,281
1 Claim. (Cl. 40—143)



A double faced sign comprising a flat plate member of sheet material having a pair of vertically aligned spaced portions, each of restricted area and struck outwardly from the plate surface to the same side thereof, said portions each having three closed edges and having facing edges slit to form facing offset pockets, a second pair of vertically aligned spaced portions of restricted area and of the same conformation struck outwardly from the plate surface to the other side thereof and having facing edges slit to form a second pair of facing spaced pockets, each of the latter being closely adjacent and below one of the first pair and in direct alignment therewith, with the two adjacent pockets on opposite sides of the plate facing in the same direction and forming aligned recessed areas open to opposite sides of the plate, the surface spaces on the plate between the respective pairs of facing pockets being substantially in overlapping back to back relation, a set of horizontally aligned pocket portions comprising a pair of spaced portions struck outwardly from the upper section of the plate surface to one side of the plate above said vertically aligned pockets and a pair of similarly spaced portions in horizontal alignment therewith struck outwardly to the opposite side of the plate with each of the latter pair being closely adjacent to one of said first horizontal pair, said horizontally disposed pairs on each plate side having vertical facing edges slit to form offset pockets, bendable sign pieces having shouldered retaining tabs of an area coextensive with said vertically aligned pockets removably inserted in each pair of said pockets and bendable sign pieces having retaining tabs inserted in each pair of said horizontally aligned pockets, each of the horizontal sign pieces being of rectangular formation and in back to back relation on the plate member with one overlying and concealing the uppermost pocket of the upper pair of said vertically spaced pockets and the other overlying and concealing the recessed area of said uppermost pocket at the other side of said plate.

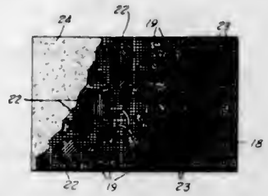
2,615,269
MOLDED ARTICLE
I. Hartley Steinhardt, New York, N. Y.
Application November 7, 1947, Serial No. 784,602
2 Claims. (Cl. 41—10)



1. A composite molded miniature lantern having a molded methyl methacrylate base and having right angular channels in the edges of said base and a cellulose acetate frame molded in the channels of the base, the outer faces of which frame are flush with the side faces of the base and continue said side faces to the edges of the base, said base being of approximately hexahedral shape to simulate approximately the shape of a small lamp and in which the center of the base is hollowed out and coated with phosphorescent material to show a candle.

2,615,270
METHOD OF PRODUCING RANDOM COLOR PATTERNS
Julius Adler, Chicago, Ill.
Application March 18, 1950, Serial No. 150,400
10 Claims. (Cl. 41—19)

1. The method of ornamenting a transparency comprising covering one surface of the transparency with a plastic ground coat, drying said ground coat to form a tacky skin surface, removing portions of said ground coat to expose localized areas of said transparency, covering at least



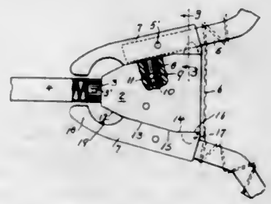
some of said exposed areas with metal foil carrying a coating contrasting in color with the color of the ground coat, and thereafter applying a protective coating to the overall area of the decorated transparency.

2,615,271
CAST PIGMENTED PLASTIC SHEET
William Walter Ulmer, Alexandria, and Louis R. Burroughs, South Bend, Ind.; said Burroughs assignor to said Ulmer
Application January 30, 1948, Serial No. 5,287
1 Claim. (Cl. 41—24)



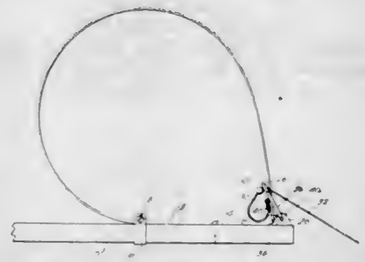
A cast synthetic resin sheet of substantially uniform thickness and continuous integral structure, said sheet being pigmented throughout and being characterized by greater density of said pigment at some parts thereof than at others to define a design pattern, one surface of said sheet being rippled with the ripples thereof coinciding with the parts of greatest pigment density.

2,615,272
COLLAPSIBLE HOLDER FOR LANDING NETS
Douglas S. Wells, Toronto, Ontario, Canada
Application September 24, 1948, Serial No. 51,079
3 Claims. (Cl. 43—12)



1. A collapsible holder for a landing net comprising a handle; a head at the outer end of said handle, the inner part of each side of said head diverging from the said handle at the same angle to the longitudinal axis of said handle, for a suitable distance, and the intermediate parts of said sides diverging from said handle at a lesser angle to said longitudinal axis than said inner parts, the outer parts of said sides extending from said intermediate parts for a distance equal to the length of said inner parts and at an angle to said inner and intermediate parts; a butt socket pivotally attached to each side of said head, the major part of the inner side of each socket having the same shape and length as the associated intermediate part of said head and occupying the same angular disposition in relation to the longitudinal axis of said head as said intermediate part, and the remaining part of the inner side of each of said sockets having the same shape and length and occupying the same angular disposition in relation to the longitudinal axis of the said head as the associated outer parts of the outer sides of said head at each end of the intermediate parts of the sides of said head; an arm for a net held in each of said sockets; means whereby each socket is pivoted to a side of said head, the major part of the inner side of said sockets co-acting with the intermediate parts of the sides of said head to spread the said arms apart as they are moved forward to open the net carried thereby; an elastic cord coupling the outer ends of said arms together adapted to be stretched as the arms are moved apart to hold the said sockets snugly in contact with the sides of said head, and a stop carried by the outer end of said head at each side thereof against which sockets rest to limit the opening movement of said arms.

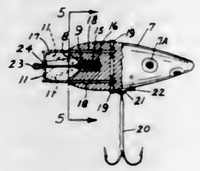
2,615,273
HOOK SETTER FOR FISHING TACKLE
Chris F. Meller, Booker, Tex.
Application September 7, 1951, Serial No. 245,500
4 Claims. (Cl. 43—15)



1. In a hook-setting device of the type in which a line is jerked responsive to agitation thereof by a fish, the combination, with a support member and with a fishing line, of an elongated flat spring anchored at one end to said member and tensionable to form a spring loop in which the free end of the spring overlies said anchored end thereof, said line being connected to said free end; a lip extended laterally from the free end of the spring; a projection on said lip; brackets upstanding from said anchored end of the spring; a cross-pin journaled in said brackets transversely of the spring and spaced above the anchored end of the spring to provide a space in which said lip is insertable, the projection on the lip engaging the cross-pin to limit movement of the lip in one direction; a longitudinally extended radial rib on the cross-pin adapted to engage the free end of the spring on rotation of the cross-pin to one position, and to release said free end when the pin is rotated to another position; a trigger arm rigid at one end with the cross-pin for rotating the same and having an eye at its other end, said arm being swingable between extreme positions in one of which the cross-pin engages said free end to hold the spring

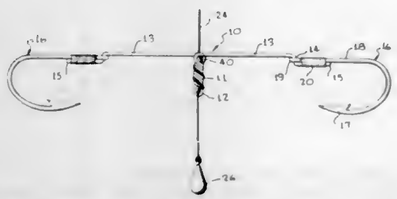
tensioned and in the other of which the spring is released to jerk the line, the line being extended through the eye of the trigger arm; and means on the line engaging said trigger arm to swing the arm to said second-named position responsive to agitation of the line by a fish.

2,615,274
FISH LURE
Phillip F. Slough, Detroit, Mich., assignor to L. W. Petrie, Chicago, Ill.
Application January 24, 1952, Serial No. 268,030
5 Claims. (Cl. 43—42.22)



1. In a device of the character described, the combination of a body member having a recess in one end adapted to simulate the open mouth of a fish and a slot communicating with said recess to receive a plate, a plate having an edge in said slot, said body member having a bore, a compression spring in said bore adapted to abut against said plate, and means for holding said plate in various adjusted positions.

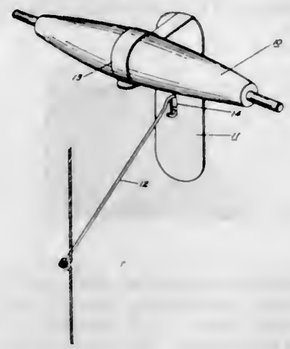
2,615,275
FISHHOOK HOLDER
Alfred C. De Mello, New Bedford, Mass.
Application July 28, 1950, Serial No. 176,403
1 Claim. (Cl. 43—42.74)



A fishhook holder comprising a single length of wire having end and central portions, said central portion having eyes in abutting relation and straight portions in substantially the same plane, a stem depending from said eyes at substantially right angles to the straight portions and merging into an eye at the other end thereof, said end portions being in the same plane and connected to the central portion by shoulders whereby the shank of a hook may be secured to each end portion with the eye of the hook surrounding the corresponding shoulder and whereby a fishing line may extend through the eyes of the central portion and the stem and be spirally wound about the stem.

2,615,276
BOBBER
Peter I. Kissich, Cedar Rapids, Iowa
Application July 31, 1948, Serial No. 41,769
5 Claims. (Cl. 43—43.13)

1. In a bobber, a substantially rectangular deflector plate, an elongated float member mounted in conjunction with said deflector plate, and a stiff shank member mounted in the center of



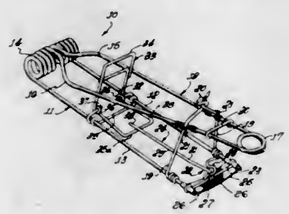
said deflector plate and positioned to form an acute angle in relation thereto.

2,615,277
DEMOUNTABLE WEED GUARD FOR FISHHOOKS
Boyd Hayden, Newton, Mass.
Application December 16, 1950, Serial No. 201,098
5 Claims. (Cl. 43—43.2)



1. In combination with a fishhook having an eye, a shank and a prong, a sleeve embracing said shank near the eye said sleeve having, a loop projecting outward therefrom, and a resilient wire guard member extending through the loop and eye, said guard member having a free end portion near the prong of the hook.

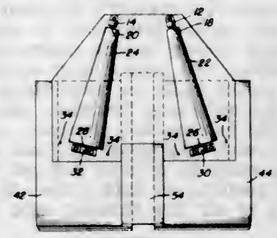
2,615,278
SELF-SETTING RODENT TRAP
George B. Wilken, Escondido, Calif.
Application November 15, 1951, Serial No. 256,458
9 Claims. (Cl. 43—95)



1. In a self-setting rodent trap including a longitudinally extending base and an overlying trap actuating member having one end spring mounted to said base and piercing arms pivotally connected to the base and guidably connected to the actuating member for movement of said arms in a plane transverse to the actuating member, the provision of: a thumb rest provided at the free end of the actuating member; a cross arm carried by the actuating member between the thumb rest and the piercing arms; trip means pivotally mounted on the base between

the spring end and the piercing arms, said trip means including a rearwardly extending portion lying normally in the planar zone of said base; a latching means pivotally mounted on the base below said cross arm for movement in a longitudinal vertical plane, said latching means including an upwardly extending sigmoidal latching portion including a forwardly directed virtually horizontal section and an upwardly and rearwardly directed section merging with the forward end of said horizontal section, whereby the cross arm contacts the rearwardly directed section for rearwardly turning the latching portion so as to engage the cross arm beneath said horizontal section of the latching portion; a release portion connected to said latching portion and extending forwardly with its free end overlying the rearwardly extending portion of said release means, said release portion normally urging the horizontal section of the latching portion into holding position by gravity, said rearwardly extending portion of the trip means being capable of lifting said release portion for turning said latching portion whereby the horizontal section of the latching means is disengaged from said cross arm for closing the trap.

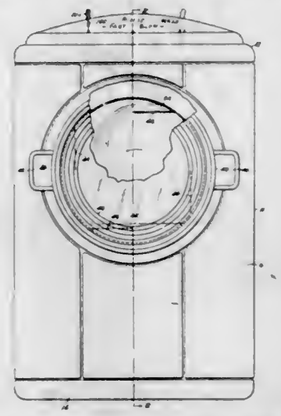
2,615,279
MOVABLE BOOK SUPPORT
William B. Haley, Jr., Albany, Ga.
Application November 23, 1949, Serial No. 128,935
4 Claims. (Cl. 45—60)



1. For use on a stationary desk or a work table having a smooth flat horizontal work surface; a portable roving-type support for holding and shifting unwieldy double entry and similar books while posting, copying or reading comprising a mobile carriage optionally movable in arcuate paths across said surface and embodying a base, a single pair of elongate tapered carriage supporting and shifting rollers attached for free rotation to the underside of said base with their smaller distal ends converging toward each other, said rollers, thus attached, serving to cause said base to incline downwardly toward said surface in a direction away from the user, and an oppositely inclined book support unit tilted in a direction toward the user and embodying two dihedral rectangular plates mounted intermediate their transverse ends on said base with distal end portions overlying a portion of the base and proximal end portions overhanging and projecting beyond the proximal portions of said base.

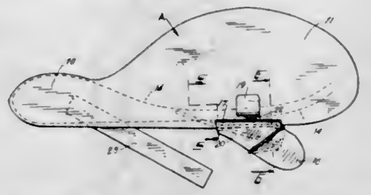
2,615,280
TOY WASHING MACHINE
George W. Thelin, Newton, Mass.
Application July 9, 1947, Serial No. 759,749
7 Claims. (Cl. 46—14)

1. In a toy which simulates a washing machine, the combination of a cylindrical rotor having a dry chamber adapted to receive articles such as a doll's clothes, said chamber having a viewing opening, a closure for said opening comprising a sealed chamber having transparent walls and adapted to contain liquid such as water, means in the second-named chamber to



cause turbulence of the liquid therein, and means to rotate said rotor to agitate the articles in the first-named chamber and the liquid in the second-named chamber.

2,615,281
FLYING TOY
David W. Main, Denver, Colo.
Application March 18, 1950, Serial No. 156,368
6 Claims. (Cl. 46—74)

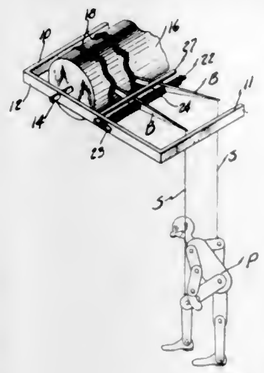


4. A whirling toy comprising: a relatively thin flat wing portion having a narrowed fuselage portion and a relatively wide wing portion; a fuselage secured below the fuselage portion; an aileron member extending at right angles to the surface of said wing portion and along the leading edge of the latter to resist rotation of the latter; and means for bringing said aileron member into the plane of said wing portion after a time interval has elapsed.

2,615,282
MECHANICALLY ACTUATED MARIONETTE CONTROL MECHANISM
Frank E. Ueltschi, Saginaw, Mich.
Application September 16, 1949, Serial No. 116,105
3 Claims. (Cl. 46—126)

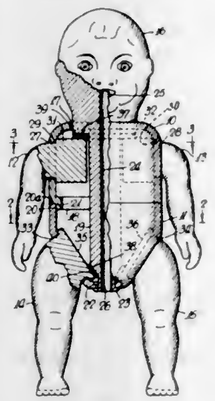
1. A mechanically driven action control for marionettes comprising a frame, a driven shaft journaled on said frame, a cylinder mounted on said driven shaft, undulating track sections mounted on said cylinder, a stationary shaft mounted in said frame substantially parallel to said driven shaft, action bars pivotally mounted interjacent their ends to swivel on said stationary shaft and engageable at one end with said track sections, resilient means interposed between said action bars for yieldably holding the bars in hori-

zontal spaced relation, a marionette suspended from the free ends of the action bars, and means



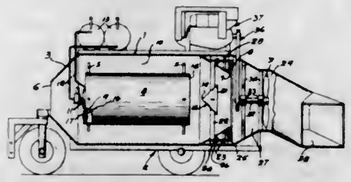
for limiting the upward swing of the track-engaging ends of said bars.

2,615,283
JOINTED FIGURE TOY
George H. Seligson, New York, N. Y.
Application February 10, 1948, Serial No. 7,417
11 Claims. (Cl. 46—161)



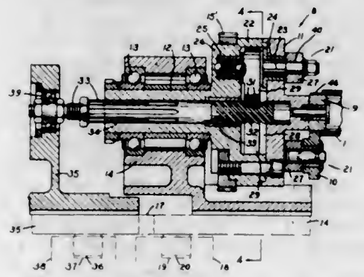
1. A doll-like figure having a body section and appendages, said body section and appendages having a shape representing a life-like figure, one of said appendages having an enlarged end portion, said body section having a hollowed portion provided with a plurality of openings, one of said openings being larger than the enlarged end portion of the appendage to permit it to be entirely inserted inside the body section, another of said openings being smaller than the said enlarged end portion to prevent it from passing therethrough, said appendage extending through the smaller opening with the enlarged end portion inside the body, retaining the appendage in position, said appendage being movable with respect to the body section and provided with means positioned inside the body preventing inner movement of the appendage in the axis of the smaller opening, said body section being provided with a surface portion conforming to the configuration of the doll-like figure, covering the larger opening.

2,615,284
PORTABLE CROP HEATER
William R. Fowler, Jr., Selma, Calif.
Application October 19, 1950, Serial No. 191,058
9 Claims. (Cl. 47—2)



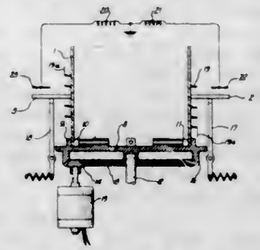
9. In a portable crop heater of the character described, a housing, a portable carriage for carrying said housing, an inlet and an outlet on said housing, a combustion chamber in said housing spaced from the walls of said housing and discharging products of combustion toward said outlet, a secondary air chamber at said outlet having secondary air inlets, lateral discharge conduits leading from said secondary air chamber to opposite sides of the lower portion of said secondary air chamber, a blower in said secondary air chamber for drawing air through said housing and said chamber and to blow the mixed air out through said discharge conduits, and a diffuser element between said blower and said combustion chamber to direct the products of combustion and the air from said housing generally outwardly and toward said secondary air chamber, generally inwardly inclined walls constricting said outlet relatively to said housing, said diffusing device having outwardly inclined walls to deflect the products of combustion toward said outlet walls for intermixture with the air flow through said housing, adjustable air ports on said combustion chamber, and adjustable means connected to said diffuser element for setting the position of said diffuser element to a selected position in said outlet to determine the velocity of air flow through said outlet.

2,615,285
GLASS TUBE RESHAPING APPARATUS
Robert E. Gosnell, Bucyrus, and Adrien F. Casler, East Cleveland, Ohio, assignors to General Electric Company, a corporation of New York
Application November 1, 1951, Serial No. 254,294
3 Claims. (Cl. 49—7)



1. Apparatus for reshaping the heated end of a glass tube to form a collar thereon, comprising holder means for holding the tube in a fixed forming position, a hollow spindle axially aligned with said holder means and the tube therein, support means rotatably mounting said spindle for rotation about its axis, means connected to said spindle for rotating it, a center plug mounted on said spindle for insertion into the end of said tube, a plurality of rocker arm means mounted on said spindle at spaced points therearound and pivotable thereon about respective axes extending parallel to the spindle axis, said rocker arm means each having an actuating arm portion and a roller arm portion pivotally carrying an outer forming roller alongside said plug to rotate about an axis parallel to the spindle axis, an actuating slide member extending through and slidable axially of said hollow spindle but rotatably interlocked therewith, and cam means operative upon sliding movement of said actuating slide member relative to said spindle to pivot said rocker arm means and move the forming rollers thereon inwardly toward said center plug whereby to engage and contract the heated end of the tube against said center plug, said cam means comprising spiral cam surfaces on said actuating slide member engaging with corresponding spiral cam surfaces on the actuating arm of each rocker arm means.

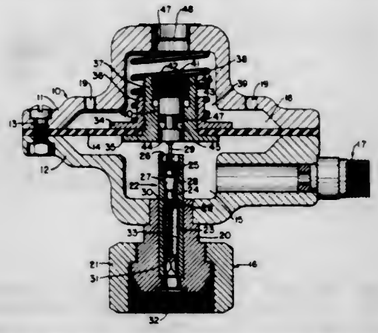
2,615,286
HIGH-FREQUENCY APPARATUS FOR SEVERING VITREOUS ARTICLES
Maurice Descarsin, Paris, France, assignor to General Electric Company, a corporation of New York
Application August 31, 1948, Serial No. 47,032
In France September 16, 1947
9 Claims. (Cl. 49—50)



1. In apparatus for severing a tubular vitreous article, the combination comprising, a coil energized with high frequency current, a plurality of conductive cutting discs within the region of the field produced by said coil and heated thereby, said discs being of a relatively high resistance material of the group consisting of a high resistance refractory metal and graphite and having axes of rotation substantially parallel to the longitudinal axis of the tubular article, and means for biasing said discs into contact with said article at their peripheries in order to sever said article in a plane established by the points of contact of the discs with the article.

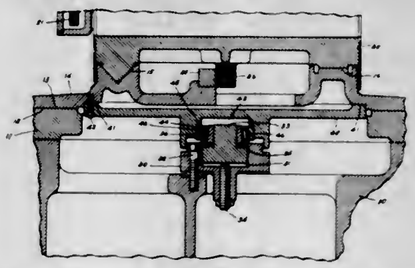
2,615,287
GAS PRESSURE REGULATOR
John S. Senesky, Somerville, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application October 1, 1948, Serial No. 52,244
2 Claims. (Cl. 50—23)

1. In a gas pressure regulator, a casing comprising a main section and a bonnet section, a diaphragm clamped between said sections, the main section having inlet and outlet connections, a valve element for controlling the admission of gas to the casing through the inlet connection, diaphragm-clamping members at the center portion of the diaphragm, the diaphragm clamping member assembly having an opening extending centrally therethrough, an additional member mounted in said opening and having threaded engagement with the diaphragm clamping member assembly, means operatively connecting said additional member to the valve element, rotation of said additional member serving by reason of its threaded engagement with the diaphragm clamping member assembly to shift its position



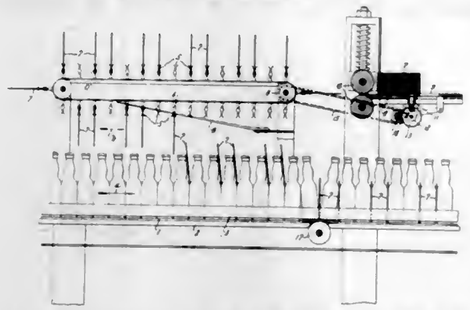
relative to the assembly in a direction transverse to the plane of the diaphragm whereby the degree of opening of the valve for a given position of the diaphragm may be regulated, and a coil loading spring for the diaphragm in the bonnet section of the casing, said bonnet section having an opening in axial alignment with said additional member to afford access thereto while the regulator is in operation.

2,615,288
GRINDING MACHINE
Walter S. Klay and Ralph E. Price, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa.
Application June 6, 1947, Serial No. 753,142
2 Claims. (Cl. 51—166)



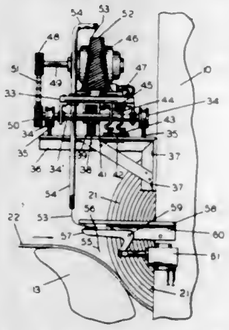
2. In a grinding machine, a bed, a support member on said bed having a broad bearing surface on the under side thereof for distributing the weight of said support member over a corresponding surface on said bed, spaced guide surfaces on said support member, a grinding wheel base having correspondingly spaced guide members for slidably mounting said base on said support member, an anti-friction bearing mounted for vertical movement in said bed, means for urging said bearing upwardly, and means including a plate between said bearing and said support member having a raised portion around the outer edge for engaging said support member to distribute the force exerted by said urging means and said bearing to points adjacent the outer edges of said support member whereby to prevent deflection of said support member and said guide surfaces.

2,615,289
PACKAGING METHOD AND MEANS
Robert J. Hickin, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Application January 15, 1951, Serial No. 206,099
16 Claims. (Cl. 53—7)



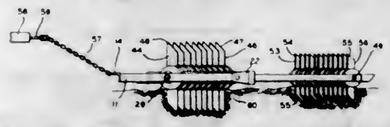
1. The method of packaging two-ended articles in containers, with separator members interposed between the articles, which comprises the steps of supporting said articles upon one of their ends and while they are thus supported allocating the articles in groups of predetermined multiples, arranging between the articles of such groups while still thus supported separator members serving to prevent contact of the individual articles of the groups with one another, and thereafter supporting the articles by their opposite ends with the separator members between them and enclosing the individual groups of articles and their associated separator members while thus last supported in individual containers presented to them toward their first-mentioned ends.

2,615,290
CORD INSERTING DEVICE
Charles P. Dyken, Saukville, Wis.
Application May 2, 1950, Serial No. 159,463
3 Claims. (Cl. 53—51)



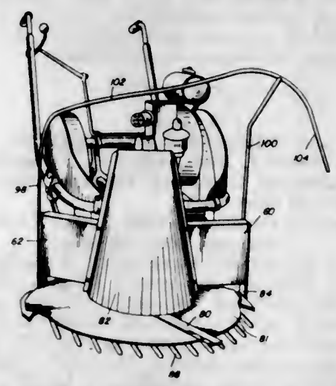
1. A device of the character described to be mounted to a rolling machine comprising a plurality of longitudinally disposed rollers parallel to one another and rotatably supported by a base, a pair of rails horizontally disposed, said rails supported by said base, and extending in parallel relation to said rollers, a gear rack horizontally disposed supported by said base, in parallel relation to said rail, a movable carriage, said carriage supported on wheels engaging the upper surface of said rails, a gear mounted to said carriage, said gear disposed in engagement with said gear rack, a motor, said motor mounted to said carriage, said gear revolved by said motor, a spool of cord mounted to said carriage, means on said carriage for guiding the cord, means mounted on the opposite ends of said frame for retaining one end of said cord, limit switches supported on both opposite sides of said frame, contact members mounted on both ends of said carriage for engagement with said limit switches, and an electric current supply forming a circuit leading through said limit switches to said motor for actuating said carriage by means of the engagement of the gear with said gear rack.

2,615,291
INVERTIBLE ROLLING HARROW
Samuel McCleneghan, Jr., Valley, Nebr., assignor to Valley Manufacturing Company, Valley, Nebr., a corporation of Nebraska
Application November 16, 1949, Serial No. 127,542
6 Claims. (Cl. 55—11)



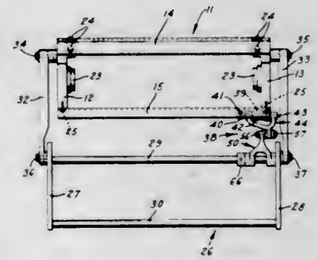
1. An agricultural machine of the class described including an invertible frame having a front section and a rear section hinged to the front section, a transverse shaft connected to the sides of the front section, spaced hubs mounted on said shaft, each of said hubs having circumferentially spaced blades extending radially and outwardly therefrom, a transverse shaft connected to the sides of the rear section, spaced hubs mounted on the shaft of the rear section and having circumferentially spaced blades extending radially and outwardly therefrom, each of said blades having a leading edge and a trailing edge of shorter length than the leading edge and connected by a tapered edge to the front edge so that as the frame is moved over the ground the leading edge imparts a wedging and tearing action to the soil, said frame when inverted positioning the blades so that the tapered edges initially engage the soil flatly and as the blades penetrate they turn and break up the soil.

2,615,292
MOWING ATTACHMENT FOR POWER MACHINERY
Laurence J. Winchell, Fort Scott, Kans.
Application September 30, 1947, Serial No. 776,915
2 Claims. (Cl. 56—25.4)



1. A mowing attachment for power machinery comprising a support, means for mounting said support upon the frame of a power machine for adjustable, slidable movement, a housing on said support, a shaft supported entirely by said housing and journaled therein, a cutter blade on said shaft, means for rotating said shaft, a guard shield consisting of a flat plate extending beneath said blade and directly mounted upon said support, skid runners mounted upon the underside of said shield, said runners being pivoted to said shield for vertical pivoting movement, spacer blocks interposed between said runners and said shield.

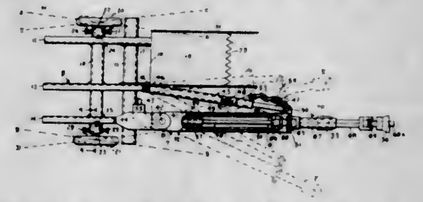
2,615,293
SWAY CONTROL MEANS FOR LAWN MOWERS
Henry J. Stegeman, Fairfield, Conn., assignor to The Locke Steel Chain Company, Bridgeport, Conn., a corporation of Connecticut
Application January 29, 1951, Serial No. 208,387
2 Claims. (Cl. 56—26)



1. In a lawn mower having a main frame, a cutter frame, and pivoted spacing links for holding the cutter frame in spaced relation with the main frame, and whereby said cutter frame has relative movement to said main frame, the improvement which comprises a pair of rigid arm members having pivot connection means at their outer ends for pivotal connection to said main and cutter frames respectively, an intermediate pivot connection means connecting the inner ends of said arm members together whereby said arms have pivotal movement about their pivot connections with said main and cutter frames upon said relative movement of the latter, said intermediate pivot connection means comprising a pivot member having a normally horizontal pivot axis and loosely engaged with at least one of said arm members to allow relative tilting movement of said normally horizontal axis and relative movement between said pivot member and arm member in the direction of the length of said axis, and resilient means interposed between said arm members and said pivot member and resiliently constraining said pivot member to its normal horizontal pivot axis position.

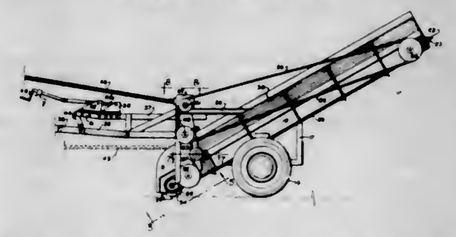
2,615,294
ADJUSTABLE WHEEL MOUNT AND DRAFT GEAR ARRANGEMENT FOR HARVESTER COMBINES
Walter R. Dray, Yorkville, Ill.
Application July 10, 1948, Serial No. 38,026
6 Claims. (Cl. 56—218)

1. In combination, a harvester including a frame having a harvester implement mounted thereon, a transversely extending supporting axle member attached to the frame, dirigible wheels mounted on the end portions of the axle member, a draft tongue pivotally connected to the frame for rotation about a substantially vertical pivot axis, and means operatively connected to the tongue and frame for adjusting the angularity of the tongue with respect to the longitudinal axis of the frame whereby when the tongue thus angularly positioned is attached to a tractor for



towing the frame in laterally offset relation to the path of the tractor the wheels may be adjusted to effect accurate desired tracking of the frame parallel to the tractor path.

2,615,295
BEAN HARVESTER
Julius Sisbc, Torrington, Wyo.
Application March 10, 1949, Serial No. 80,640
1 Claim. (Cl. 56—218)

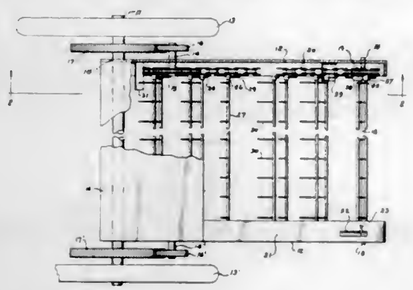


In a vine crop harvester having an inclined endless belt type conveyor operatively mounted in a frame wheel-supported for translation with the conveyor lower end advanced in the direction of travel and for oscillation in a vertical plane about the supporting wheel axis, a gathering reel operatively paralleling the conveyor lower end, and means for synchronously driving said conveyor and reel, harvester draft means selectively adjustable to regulate the angular attitude of said frame and consequent altitudinal disposition of said reel when the harvester is hitched in towed relation with a tractor, said draft means comprising a forwardly-convergent yoke hinged at its divergent ends to forward portions of said frame for oscillation in a vertical arc, a hitch coupling on the forwardly-projected apex of said yoke, a frame-fixed beam spacedly overhanging the longitudinal median line of said yoke an extension hinged for oscillation in a vertical arc to and projecting forwardly from the forward end of said beam, a link hingedly interconnecting the forward end of said extension and a forward point on said yoke, spaced, parallel, paired gussets similarly upstanding from the beam and from said extension in alignment longitudinally of the beam, a block swivelled to and between upper ends of each gusset pair, and a manually-rotatable rod end-swivelled in the rearward of said blocks and threadedly engaging through the forward block.

2,615,296
PICKUP CONVEYER FOR HARVESTING MACHINES
Bernard Lemanski, Bad Axe, Mich.
Application December 26, 1950, Serial No. 202,720
6 Claims. (Cl. 56—364)

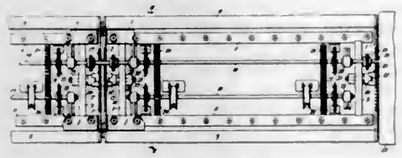
1. In a harvesting machine having a frame and a wheel carrying axle journaled through the

rear end thereof, a transverse shaft rotatably journaled through the forward end of said frame, parallel spaced sprocket chains movably supported at their ends upon said frame and interconnected with said axle and shaft, a plurality of parallel transverse rods interconnecting said chains at spaced points throughout their length and rotatably joined thereto at their opposite ends, a row of upright longitudinally spaced harvesting fingers secured upon each rod throughout its length, a control arm projecting from the one ends of each of said rods and



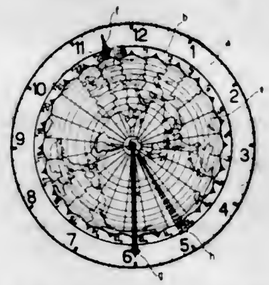
arranged at an angle to said fingers, an inwardly directed lug on the interior of said frame at the rear end of said chains and upon the exterior thereof intermittently and successively engaged by a finger on each of said rods moving the same in a clockwise direction, and a second inwardly directed lug on the interior of said frame adjacent the front end of said chains and upon the interior thereof, intermittently and successively engaged by a control arm on each of said rods moving the same in a counter-clockwise direction.

2,615,297
RING SPINNING, DOUBLING, AND TWISTING MACHINE
James Jackson Haythornthwaite, Accrington, England, assignor of one-half to Howard and Bullough Limited, Accrington, England
Application December 10, 1949, Serial No. 132,270
In Great Britain December 13, 1948
3 Claims. (Cl. 57—1)



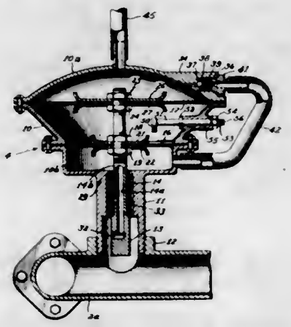
1. In a machine of the class described, a plurality of unitary sectional frames connected in longitudinal alignment, a headstock unit operatively associated therewith, a power-transmitting element, said power-transmitting element extending throughout the length of the combined sectional units of the entire machine and into the headstock unit, reciprocating rails in each of said sectional frames, spindles rotatively supported in each of said sectional frames, and means for operatively associating said power-transmitting element with said reciprocating rails to effect building of the yarn on said spindles, said sectional units including spring pieces, spindle rails and ring rails, said spindle rails and ring rails being in lengths corresponding to the length of the sectional unit; and aligning means connecting said spring pieces of adjacent sectional units.

2,615,298
UNIVERSAL AND ORDINARY CLOCK
Ruggero Ferrari, Parma, Italy
Application February 19, 1947, Serial No. 729,490
In Italy January 31, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires January 31, 1966
2 Claims. (Cl. 58—43)



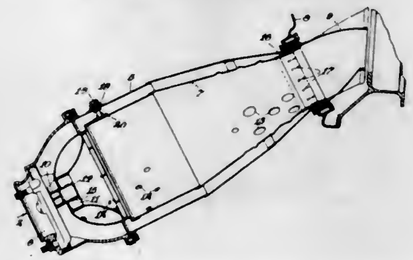
1. A clock dial assembly comprised by a flat circular rim having twelve hour graduations thereon, a minute hand movable thereover and arranged to make one revolution each hour, a disc within said flat circular rim arranged to make one revolution every twenty-four hours and having twenty-four hour graduations thereon, a second disc arranged to make one revolution each twelve hours and positioned in front of the first disc and beneath the minute hand, said second disc having a map of the northern hemisphere in planisphere thereon divided into twenty-four sectors, and an indicator on the second disc adapted to register with both the twelve hour graduations on the flat circular rim and the twenty-four hour graduations on the first disc for indicating the local hour.

2,615,299
VACUUM BOOSTER FOR INTERNAL-COMBUSTION ENGINES
John C. Holmes, Signal Mountain, Tenn., assignor to J. Curtis Manufacturing Co., Chattanooga, Tenn., a corporation of New Jersey
Application October 13, 1948, Serial No. 54,325
11 Claims. (Cl. 60—14)



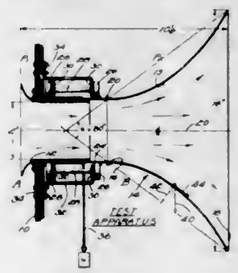
1. In combination with a multi-cylinder internal combustion engine having a main intake manifold provided with a plurality of branches for supplying explosive charges to the different cylinders, a suction operated accessory, a suction line connecting the accessory to one of said branch passages, valve means for restricting the communication between one of said branch passages and the main intake manifold and a pressure differential element subjected to the vacuum in said suction line and coupled to said valve means for varying passage restriction in said one branch passage by said valve means on occurrence of pressure differentials in said suction line.

2,615,300
COMBUSTION CHAMBER FOR GAS TURBINES AND HAVING FLAME TUBE MOUNTING MEANS ALLOWING RADIAL AND AXIAL EXPANSION
Adrian Albert Lombard, Clitheroe, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application March 11, 1947, Serial No. 733,911
In Great Britain April 8, 1946
6 Claims. (Cl. 60—39.32)



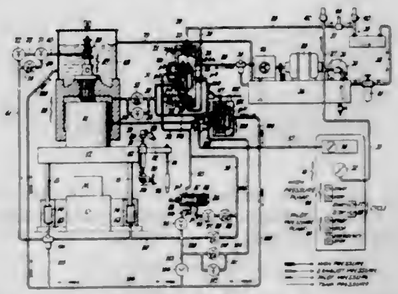
1. A combustion chamber of the kind employed in an aircraft gas turbine engine comprising an air casing having an inlet end and outlet end, a cylindrical member secured to said air casing to lie within it at its inlet end, a flame tube having an internal cylindrical bore in axial sliding engagement with said cylindrical member, axial sliding means to support said flame tube within said air casing at the outlet end thereof, said axial sliding means being of the kind which permits radial expansion of said flame tube relative to said air casing, and locating means to locate said flame tube axially with respect to the air casing, said locating means permitting free radial expansion of said flame tube with respect to said air casing.

2,615,301
CENTRIFUGAL DIFFUSER
Charles Branson Smith, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application November 9, 1946, Serial No. 709,049
12 Claims. (Cl. 60—39.36)



1. A fluid velocity-pressure converter comprising a rotatable hollow wall having fluid impelling means on the interior surface thereof, said impelling means extending inwardly from said wall a distance less than five per cent of the minimum interior diameter of said wall.

2,615,302
HYDRAULIC PRESS
Louis Amore Camerota, Burlington, N. J., assignor to Florence Pipe Foundry & Machine Company, Florence, N. J., a corporation of New Jersey
Application July 7, 1949, Serial No. 103,507
5 Claims. (Cl. 60—52)

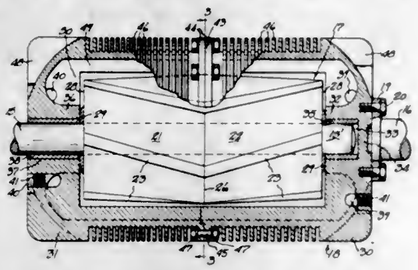


1. A control system for a hydraulic press having a ram cylinder, a fixed platen opposed by the plunger of the ram cylinder, a lift cylinder for raising the plunger of the ram cylinder after each press operation, a supply source of pressure fluid and piping connecting the ram cylinder and the lift cylinder with the supply source; said control system including a power-actuated master valve having a bore and a piston therein which, when shifted in one direction from a normal neutral position permits delivery of pressure fluid to the ram cylinder to close the press, and when shifted in the other direction permits delivery of pressure fluid to the lift cylinder for opening the press, and having incorporated selectively-operable magnetically-actuated pilot valves for admitting pressure fluid from another supply source to admit pressure fluid into opposite ends respectively of the bore to shift the piston in one direction or the other as aforesaid, and a manually-operable auxiliary valve interposed in the piping in serial relation with the master valve and having a piston with means whereby the latter can be shifted from a neutral position in one direction or the other while the master valve is maintained in neutral position, to permit delivery of pressure fluid to the ram cylinder for closing of the press, or admitting pressure fluid into the lift cylinder for opening of the press.

2,615,303
ROTARY TURBINE TYPE FLUID COUPLING
Harlie Ogden Putt, Elkhart, Ind., assignor of fifteen per cent to J. Edward Schroeder, fifteen per cent to Bernard A. Scheibelhut, fifteen per cent to Louis J. Schroeder, and fifteen per cent to Mary Schroeder, all of Mishawaka, and fifteen per cent to F. Armand Schellinger, South Bend, Ind.
Application November 25, 1947, Serial No. 787,954
2 Claims. (Cl. 60—54)

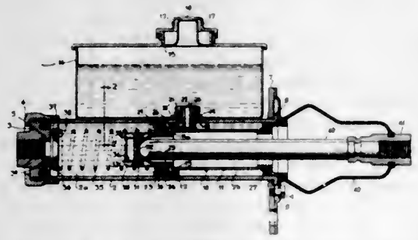
2. A rotary turbine type fluid coupling comprising a driving shaft, a driven shaft, a rotor secured to one shaft, and a liquid-containing rotor housing secured to the other shaft and journaling said rotor shaft, said housing being sealed and having a cylindrical cavity, and a plurality of longitudinal radial equi-spaced similar ribs projecting into said cavity throughout the length of said cavity and each of uniform radial dimension throughout its length, said rotor having similar peripheral elongated radial vanes whose central portions are circumferentially deflected relative to their end portions substantially

equal to the angular displacement of adjacent ribs of said housing, the number of said ribs



being twice the number of said vanes, each of said vanes being of uniform radial dimension throughout its length.

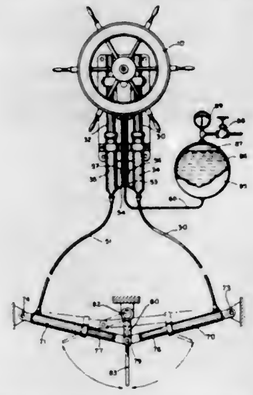
2,615,304
HYDRAULIC MASTER BRAKE CYLINDER HAVING BLEEDING MEANS
Martin V. Groves, Brooklyn, N. Y.
Application November 29, 1949, Serial No. 130,005
10 Claims. (Cl. 60—54.6)



1. An hydraulic brake master cylinder comprising, a cylinder, a piston movable therein for producing fluid pressure to operate the brakes, an hydraulic fluid reservoir in fluid communication with said cylinder rearwardly of the head of said piston when the piston is in its fully retracted position, fluid passage means for conveying fluid forwardly of the head of said piston, said piston being adapted to seal off said fluid passage upon predetermined protractile movement thereof, a bleeding member in said cylinder forwardly of the head of said piston and having a circular flange of smaller diameter than the bore of the cylinder, and means responsive to protractile movement of said piston for displacing hydraulic fluid from the cylinder around the perimeter of said circular flange and through said fluid passage to said resevoir until the fluid passage has been sealed off by the piston, thereby to syphon off gases trapped within the cylinder.

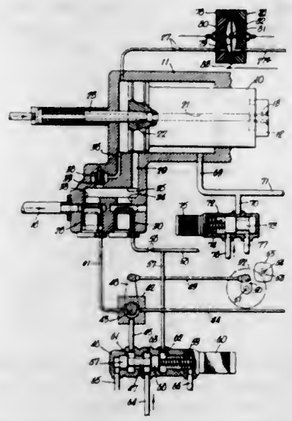
2,615,305
HYDRAULIC TRANSMITTER MECHANISM
Newman C. Jannsen, Seattle, Wash.
Application December 23, 1946, Serial No. 717,827
2 Claims. (Cl. 60—54.6)

1. A hydraulic transmitter mechanism in a hydraulic steering system for ships, comprising: a pair of parallelly disposed fluid cylinders; a fluid service tube leading from each of said fluid cylinders; pistons disposed for reciprocation synchronously in opposite directions within said cylinders; a gear rack secured to each of said pistons; an idle gear disposed between and operatively engaging said gear racks; a pinion gear operatively engaging said idle gear; a manually operated wheel adapted to turn said pinion gear; said pistons having longitudinal bores which communicate at one end with said cylinders; stop cocks on the free end of said pistons in operative connection with the other end of said longitudinal bores; a re-supply tank; a valve chamber; a valve positioned in said valve chamber with an upstanding stem and with a valve head in a horizontal position; a spring in said



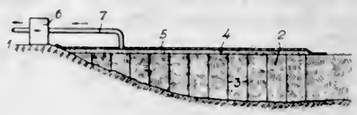
chamber bearing on the underside of the valve head urging it upwards; a tube leading from said re-supply tank to said chamber; said chamber having two passageways leading from above said valve head to the outside of the chamber; re-supply tubes leading from said passageways to said cylinders; a pet cock on each of said re-supply tubes; and a crank pin secured to said idle gear in position to depress said valve stem when said pistons are at an intermediate position.

2,615,306
FORGING APPARATUS AND CONTROL THEREOF
Robert L. Alcorn, Jr., Chambersburg, Pa., assignor to Chambersburg Engineering Company, Chambersburg, Pa., a corporation of Pennsylvania
Application July 21, 1949, Serial No. 106,045
16 Claims. (Cl. 60—97)



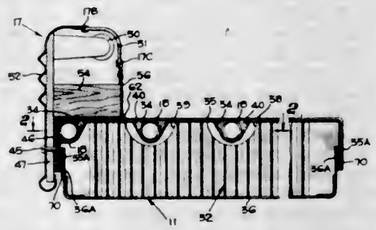
6. In an apparatus of the class described, a pair of fluid cylinders, means for supplying pressurized fluid to said cylinders, means for detecting an unbalanced pressure rise in said cylinders, and means responsive to detection of such condition for interrupting the supply of fluid to said cylinders.

2,615,307
METHOD OF CONSOLIDATING SOILS
Walter Kjellman, Stockholm, Sweden
Application April 29, 1948, Serial No. 23,977
In Sweden May 6, 1947
2 Claims. (Cl. 61—11)



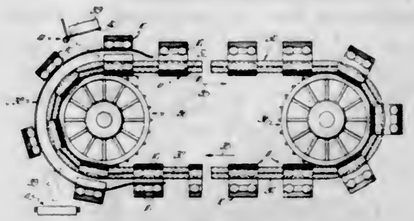
2. The method of consolidating soils consisting in forming substantially vertical drains in the soil, covering the vertical drains and the entire surface of the soil to be treated with a layer of filter material pervious to water, covering said filter layer with a membrane layer of air tight material, and communicating the filter material with a pump for reducing the pressure on the lower side of the membrane layer below atmospheric pressure.

2,615,308
SECTIONALIZED PORTABLE ICE STAGE
Irvin A. Thorns, Los Angeles, Calif.
Application October 21, 1949, Serial No. 122,693
1 Claim. (Cl. 62—12)



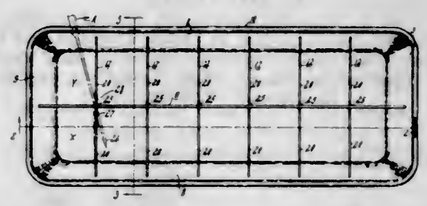
In a portable rink construction of the character described, comprising: a plurality of sections disposed in side by side relationship, each of said sections comprising a honeycombed paper parallelepiped with air spaces extending the full thickness thereof, a metallic pan on one side and a floor plate on the other side of said parallelepiped to close off said air spaces, said honeycombed paper being effective to transmit forces directly from said pan to said floor plate; a refrigerant pipe pattern disposed within the confines of said parallelepiped and in heat conducting relationship to said pan, pans of adjacent sections being disposed in side by side relationship to form a straight line joint therebetween, a thermal mastic cement disposed over said joint to seal the space otherwise present between adjacent sections, a rail extending along the perimeter of said sections and being releasably fastened to the outer sides of the end sections and to each one of the adjacent ends of the sections, and a thermal mastic cement between said rail and the adjacent pan to seal the junction therebetween against water leakage.

2,615,309
REFRIGERATING APPARATUS FOR FREEZING FOOD
Leonel A. De More, Clearwater, Fla.
Application September 12, 1950, Serial No. 184,373
7 Claims. (Cl. 62—102)



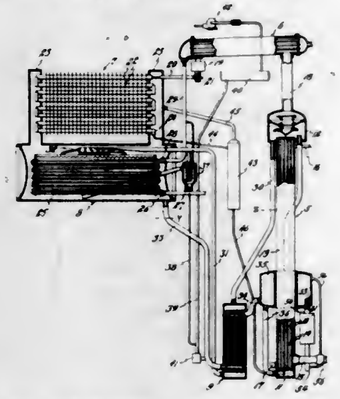
1. A freezing apparatus comprising an insulated chamber, means for circulating refrigerated air therein, and, in said chamber, a plurality of individual articulately and endlessly interconnected freezing units and means for moving the same from point of entry to point of exit of articles to be frozen, said freezing units each comprising a pair of registeringly interconnected cooperating freezing heads presenting opposed separated surfaces between which individual articles to be frozen may be held and having fins conductively connected therewith, and springs urging said heads toward each other for applying pressure to said articles therebetween, and means for separating said pairs of heads to discharge said articles carried thereby as each unit approaches said point of exit and for permitting their relative movement toward each other for receiving an article to be frozen as they move past said separating means and leave said point of entry.

2,615,310
FREEZING TRAY
Frederick W. Sampson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 6, 1949, Serial No. 108,942
4 Claims. (Cl. 62—108.5)



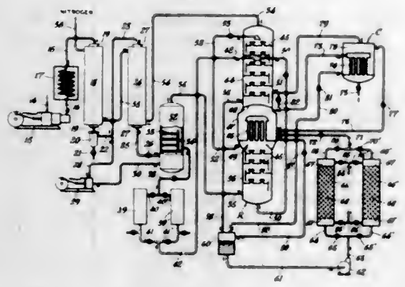
1. In combination, a freezing tray comprising an elongated container pan and a removable grid for said pan, said grid having a longitudinally extending main wall and a plurality of cross walls passing thru the plane of said main wall, said cross walls each having a continuous lower portion passing thru a slot in said main wall and rigidly fixed in place therein, each cross wall having a slot therein extending upwardly from its said fixed lower portion thru its upper margin to loosely receive the upper continuous portion of said main wall, each cross wall having two opposed individually flexible lateral portions divided by said slot therein, said lateral portions having a gap therebetween arranged for the insertion of a prying tool in said gap for flexing one lateral portion of the cross wall forward while the opposed lateral portion serves as a stationary fulcrum for the tool.

2,615,311
APPARATUS FOR MAINTAINING LIQUID LEVEL IN ABSORPTION REFRIGERATION SYSTEMS
Lowell McNeely and Eugene P. Whitlow, Evansville, Ind., assignors to Servel, Inc., New York, N. Y., a corporation of Delaware
Application May 14, 1948, Serial No. 27,033
9 Claims. (Cl. 62—119)



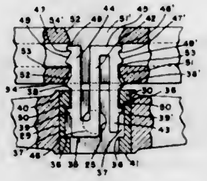
1. In an absorption refrigeration system, a plurality of elements interconnected for the circulation of refrigerant and absorbent, an absorption solution circuit having a vapor liquid lift for raising liquid for gravity flow through the circuit, a standpipe in the circuit for receiving liquid as it flows by gravity toward the lift, said standpipe providing a hydrostatic reaction head on the vapor liquid lift, and an auxiliary liquid circuit connected to said standpipe for maintaining the liquid at a predetermined level therein and the hydrostatic reaction head on the liquid lift at a constant height.

2,615,312
PROCESS AND APPARATUS FOR ELIMINATING IMPURITIES DURING THE SEPARATION OF GAS MIXTURES
Edward F. Yendall, Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application May 7, 1949, Serial No. 91,982
10 Claims. (Cl. 62—122)



1. A process for limiting the accumulation of hydrocarbon impurities in an oxygen-rich product in a system for low temperature separation of air that includes a zone in which said product is collected and partially vaporized, which process comprises withdrawing liquid oxygen product from said zone; forcing such withdrawn liquid into intimate contact with an adsorbent material that is inert to oxygen and selectively retains hydrocarbon impurities including acetylene in a flash-safe manner; passing the withdrawn cleaned liquid to a separate vaporizing zone and subjecting it to vaporization therein; and recirculating a portion of the liquid from said separate vaporizing zone through said adsorbent material and back to said separate vaporizing zone.

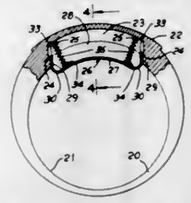
2,615,313
WEDDING AND ENGAGEMENT RING ENSEMBLE AND COUPLING FOR SAME
Jacob H. Schaeffer, Great Neck, N. Y., assignor to Shiman Bros. Co., Inc., New York, N. Y., a corporation
Application February 16, 1952, Serial No. 271,891
1 Claim. (Cl. 63—15)



A finger ring having opposed facings, a shank and a gem setting, said gem setting having a base, a horizontal transverse channel above said base through said gem setting, a retractable S-shaped movable member in said channel, said member when in retracted position extending beyond said opposed facings, said member manually movable from a retracted inoperative position to an operative position extending substantially beyond the facing of one side of said ring, said member having rounded opposed terminals at the front end, front opposed ridges adjacent said terminals with notches therebetween permitting the finger nails of one hand to grasp said member to move it to its operative position, central opposed ridges for firmly positioning said member in its retracted or operative positions, and rear opposed stops having front edges at right angles to said member and sloping rear edges, said member resilient at both ends, said channel having opposed shoulders adjacent each end for retaining said member in operative and inoperative positions and preventing said member from being removed from said gem setting, said member adapted to engage a second finger ring when said member is in operative position to hold said second finger ring against relative rotation to said first finger ring.

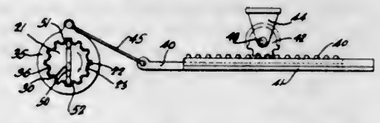
2,615,314
SELF-ADJUSTING FINGER RING
Benjamin Axel, Roslyn Heights, N. Y., assignor to Tru-Fit Company, New York, N. Y., a partnership
Application July 11, 1952, Serial No. 298,406
15 Claims. (Cl. 63—16)

1. A finger ring comprising a band defining a finger-receiving opening, said band having an elongated recess extending throughout a substantial portion thereof and communicating with said opening, movable means mounted in said recess and extending substantially the length and width thereof provided with inner, side, and end faces for varying the effective area of said finger-receiving opening, the inner and end faces of said means merging together with flared edges to prevent injury to the wearer's finger, resilient means positioned intermediate said band and said movable means to urge at least a portion of said movable means to normally project inwardly of the periphery of the finger-receiving opening and to



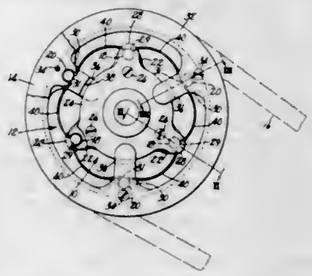
permit the retraction thereof to a position substantially flush with the periphery of said opening, and means for limiting the movement of at least a portion of said movable means in a direction inwardly of the finger-receiving opening.

2,615,315
ANTIBACKLASH DEVICE
Calvin J. Werner, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 20, 1949, Serial No. 122,540
5 Claims. (Cl. 64—14)



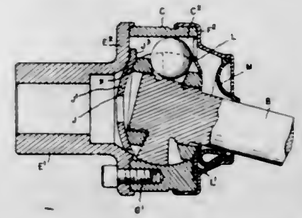
1. In a device of the character described, the combination with a driving member, of a driven member mechanically engaged by the driving member; a take-up device interposed between said members, said take-up device comprising an element having a torque resisting body portion and two angular arm portions, said body portion resting in a groove in one of said members, each arm portion extending into and engaging one side of a groove in the other of said members and constantly urging said members against each other in a direction opposite that in which the driving member rotates the driven member.

2,615,316
SPRING WHEEL CONSTRUCTION
Henry Kirwin, Dedham, Mass.
Application October 30, 1948, Serial No. 57,537
7 Claims. (Cl. 64—15)



1. The combination with a rim and a hub of a resilient element connecting the rim and the hub, a clip formed in said element and extending inwardly therefrom, a clip receiver rigid with the hub and arranged to mount the inwardly extending clip, and two members extending outwardly from the hub and arranged in contiguous relation to opposite edges of the clip and to opposite sides of the clip receiver.

2,615,317
CONSTANT VELOCITY UNIVERSAL JOINT
Alfred H. Rzeppa, Grosse Pointe, Mich.
Application May 31, 1949, Serial No. 96,278
4 Claims. (Cl. 64—21)



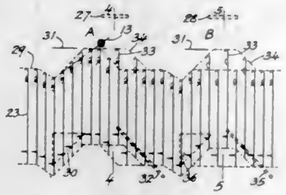
1. A torque transmitting universal joint comprising inner and outer rotary members having engaged spherical surfaces with spaced axially extending registering ball race grooves therein, the outer of said members being of greater axial length than the inner member, balls in the registering grooves, heads at the axially opposite ends of the outer of said rotary members, one of said heads forming a detachable cap, guide plates adjacent to the respective heads and provided with concave spherical inner surfaces which are concentric with points in the axis of said outer rotary member respectively on opposite sides of the center of said spherically engaged surfaces, one of said guide plates being relatively rigid and the other resiliently yieldable, annular members having outwardly tapering wedge portions in contact with the respective balls and between the same and the concave spherical surfaces and said guide plates, the resiliently yieldable guide plate maintaining a limited pressure by said wedge portions against said balls, and spherical bearings on said inner rotary member on which said annular members are rockably mounted.

2,615,318
SUPPORT FOR EATING UTENSILS
Albert M. Gray, Chicago, Ill.
Application June 7, 1949, Serial No. 97,605
1 Claim. (Cl. 65—65)



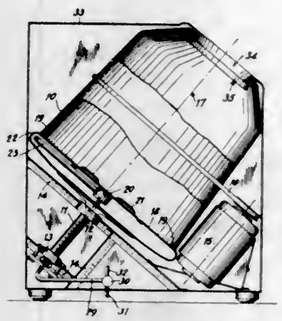
A support for eating utensils, said support having a bifurcated end for detachable connection to a plate, and an elongated, substantially linear utensil-supporting portion arranged to extend in a substantially horizontal direction when said bifurcated end is detachably connected to a plate and when such plate is in its normal, food-containing position, said support also having an upwardly extending protrusion at the end thereof opposite said bifurcated end, said support having a narrow, resilience-providing slit opening into the closed end of the slot formed by the said bifurcated end and extending in the same general direction as said slot.

2,615,319
KNITTING MACHINE AND METHOD
Nathan Levin, Trenton, N. J.
Original application June 24, 1947, Serial No. 756,694. Divided and this application March 2, 1949, Serial No. 79,181
22 Claims. (Cl. 66—135)



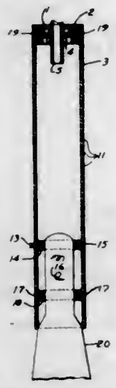
1. A method of knitting on a circular series of independent cylinder and dial needles to knit weft body yarn and wrap yarns individually associated with the cylinder needles, including knitting the body yarn on the series of cylinder and dial needles at a knitting station, knitting wrap yarns on their cylinder needles at the same knitting station, and knitting only wrap yarns on their cylinder needles at another knitting station.

2,615,320
LAUNDERING MACHINE
James Frank Belaieff, Cologny, near Geneva, Switzerland, assignor to Societe Anonyme des Usines Jean Gallay, Geneva, Switzerland, a corporation of Switzerland
Application October 9, 1948, Serial No. 53,690
In Switzerland August 12, 1948
5 Claims. (Cl. 68—24)



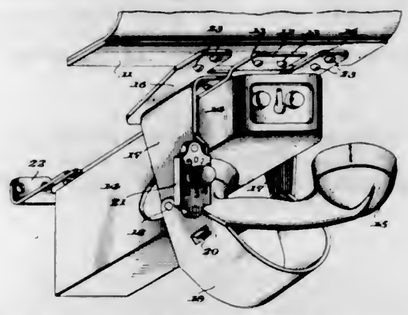
1. A laundering machine comprising, in combination, a wash tub of generally circular cross-section having one end of a larger diameter than the other end, means for rotating the tub about an inclined axis, a generally circumferential channel adjacent to and communicating with the larger diameter end of the tub, said channel having a diameter larger than the larger end of the tub, and a drain pipe mounted in an opening at the larger diameter end of the tub, said drain pipe having an inlet opening adjacent the side wall of the tub in said circumferential channel and adapted to drain off liquid from the tub as a result of rotational movement thereof.

2,615,321
RINSE CYLINDER FOR ATTACHMENT TO ROTARY WASHING MACHINE BASKETS
Clifford T. Maloy, Englewood, Colo.
Application April 20, 1949, Serial No. 88,512
2 Claims. (Cl. 68—148)



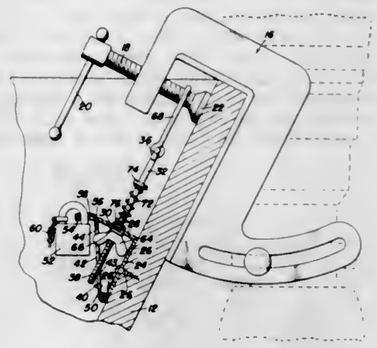
1. A quickly removable and replaceable self-contained rinse cylinder unit for washing machines, comprising a hollow open ended apertured cylinder, a bearing member coaxially mounted in the cylinder, a conduit for conveying water directly into the cylinder mounted in and extending through said bearing member into the interior of the cylinder, said conduit being supported solely by the cylinder and bearing, the bearing member being rotatable relatively to the conduit, and means mounted in the lower portion of the cylinder for removably and frictionally engaging a rotatable hub in the washing machine to position the cylinder coaxially on said hub.

2,615,322
TELEPHONE LOCK
Antoine Gazda, Providence, R. I.
Application January 25, 1949, Serial No. 72,695
5 Claims. (Cl. 70—62)



3. In a structure of the character described for locking the head-set of a telephone when disposed in a casing having an open end the combination comprising a plate adapted to be secured to a support above said casing, an inverted U-shaped member fixed to said plate so as to be adjacent said open end and having the side arms thereof extending transversely of the casing, a U-shaped locking member having the side arms thereof separately pivoted to separate ones of said side arms of said U-shaped member for closing said open end when in locked position, and means for locking said locking member in locked position.

2,615,323
LOCK FOR OUTBOARD MOTORS
Paul D. Budisch, Milwaukee, Wis.
Application July 21, 1950, Serial No. 175,147
6 Claims. (Cl. 70—232)



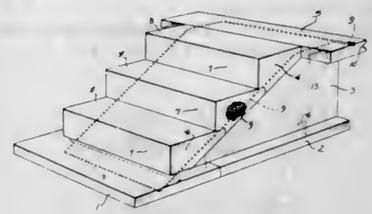
5. A locking device for an outboard motor clamp for mounting on a boat and having a clamp screw, said locking device comprising an apertured case mounted on the boat, a bolt entering the case through the opening therein, a nut anchoring said bolt in the case, anchoring means connecting said bolt to the clamping screw, and means for preventing rotation of said nut.

2,615,324
KEY RING
William H. Meeker, Rochester, N. Y., assignor to Hickok Manufacturing Co. Inc., Rochester, N. Y., a corporation of New York
Application June 8, 1950, Serial No. 166,947
4 Claims. (Cl. 70—459)



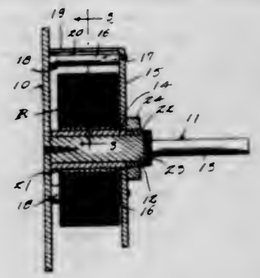
1. A key ring comprising a disc provided with a radial slot and having an arcuate slot spaced from the periphery of the disc and forming a peripheral key holding arm, said disc being provided at one end of the arm with a peripheral gap communicating with and forming an entrance to the arcuate slot to permit keys to be arranged on and removed from said key holding arm, a hood having spaced sides and arranged on the exterior of said disc and pivoted to the same substantially centrally thereof and movable over the disc to cover and uncover the entrance to the arcuate slot, and latch means located in said radial slot and arranged to engage the hood for holding the same in position for closing the entrance to the arcuate slot and for also holding the hood in position for exposing said entrance to permit keys to be arranged on and removed from the key holding arm.

2,615,325
PRECAST SECTIONAL CONCRETE STAIRS
Dale S. Seeber, Hillsboro, Oreg.
Application August 6, 1948, Serial No. 42,859
4 Claims. (Cl. 72—96)



3. A stair constructed of precast sections comprising a base, spaced sidewalls mounted on said base, said sidewalls having complementary surfaces comprising flat tops and sloping edges, a recess extending laterally in said base, a plurality of step units each having a riser, a stepping surface and a sloping side, said sloping side resting upon the sloping edges of said sidewalls, a portion of said riser being cut away longitudinally adjacent said sloping side to form a notch with the rear wall of said notch acting as a depending key, the key of the bottom step engaging the recess in the base, the key of intermediate units abutting against adjacent units along the side opposite said riser, a platform member resting on said sidewall flat top and abutting the topmost step to form a level surface therewith, said base, platform, and step sections having passages therein alined with each other, the back of said platform member having an open-faced longitudinal groove therein, a flexible connecting means extending along said platform member groove and through said alined passages and joined at its ends to form a closed loop releasably securing said sections together, and pin means detachably securing said sidewall and base to complete the joinder of all elements into an integral stair structure.

2,615,326
COMBINED TAPE HOLDER AND PLASTER PALLET
Othel Lewis Matthews, Abilene, Tex.
Application December 13, 1948, Serial No. 65,030
2 Claims. (Cl. 72—135)



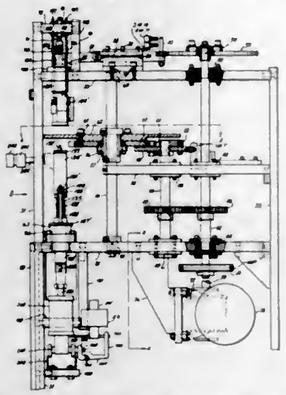
1. In a pallet, a pallet member, a handle structure secured to the underside thereof, a plate member spaced from said pallet member by means of a plurality of spaced posts, said plate member being secured to said posts, and a detachable support on said handle structure under said plate member whereby a receptacle is formed to removably support a roll of tape about said handle within said receptacle.

2,615,327

APPARATUS FOR TESTING FLUID PRESSURE SWITCHES

Floyd J. Foust, Don Randall Burk, and Rupert C. Whelchel, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application June 3, 1948, Serial No. 30,945
8 Claims. (Cl. 73—4)



1. A machine for testing switches having fixed contacts and a movable contact actuated into engagement with the fixed contacts by fluid pressure and having a pressure fluid chamber with a pressure fluid inlet and having terminals extending from a side thereof, said machine comprising a rotatable dial, a plurality of workholders carried thereby each adapted to receive a switch to be tested, means for indexing the dial from a loading station to a high pressure test station and to a low pressure test station, similar apparatus at each test station, each apparatus comprising a head adjacent the terminal side of the switch to be tested and movable into and out of engagement with the switch, means carried by the head for making an electrical connection with the switch when the head is advanced thereto, a member movable toward and away from the opposite side of the switch for making connection therewith for flow of pressure fluid into the pressure chamber of the switch, means for moving the head while the dial is stationary, a mechanism for operating the dial indexing means and the head moving means in recurrent sequence, means responsive to movement of the head to engage the switch for causing the member to make fluid connection with the switch and, means responsive to the establishment of said fluid connection for causing fluid to flow under pressure into the pressure chamber of the switch, an electrical device having terminals connected by the head at the high pressure test station with the tested switch terminals and having means for detecting leakage of the tested switch when subjected to high pressure, and an electrical device having terminals connected by the head at the low pressure test station with the tested switch terminals having means for determining in which one of a plurality of pressure ranges the contacts of the tested switch close.

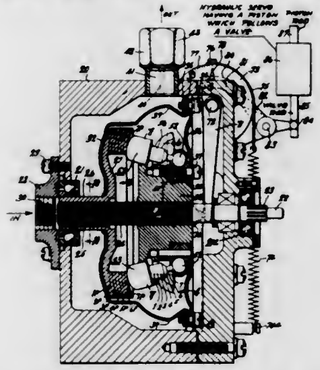
2,615,328

DENSITOMETER

John Dolza, Davisburg, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application August 18, 1951, Serial No. 242,568
2 Claims. (Cl. 73—32)

1. A liquid density sensing apparatus comprising a driven shaft, floats of different densities in a range of densities of the liquid whose density is to be sensed, a reaction plate having a hub fixed to the shaft and providing pads located in a circular row around the shaft and having surfaces to be engaged, respectively by floats of different densities, said pad surfaces being located, longitudinally of the shaft axis, at different distances from the plate hub, a member supported for movement coaxially of the shaft and operatively connected therewith, means provided by the member for supporting each float for movement radially of the shaft axis from a location in which it may engage its particular pad of the reactive plate when the density of the float is less



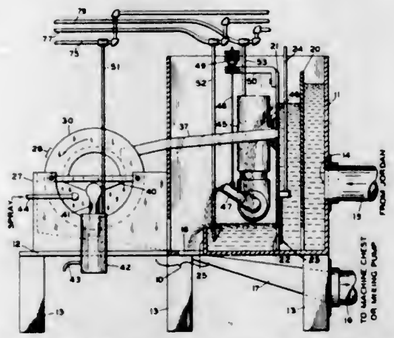
than the density of the liquid to a location in which the float clears the reaction plate when its density is greater than the density of the liquid, said movement taking place under the influence of centrifugal force when the shaft is rotated at relatively high speed, means for urging the member toward the plate, the distance between the member and the plate depending on which one of the floats engages a pad of the plate, means connected with the shaft and providing a chamber surrounding the plate and floats, said chamber containing the liquid whose density is to be measured, and an element operatively connected with the float supporting member, the position of the element being indicative of the density of the liquid.

2,615,329

PAPER STOCK ANALYZER

George S. Witham, Hudson Falls, N. Y., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut

Application July 16, 1946, Serial No. 683,969
3 Claims. (Cl. 73—63)



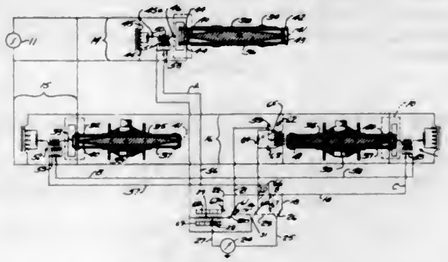
1. In a device for determining the freeness of a semi-fluid stock containing suspended fibrous material, the combination of a drum having a horizontal axis and axially displaced radially extending flanges with a foraminous cylindrical surface therebetween, said flanges extending outwardly beyond said surface, said drum being open to atmospheric pressure both above and below said foraminous surface to expose opposite sides of said surface to said pressure, means for rotating said drum at a substantially constant velocity about said axis, means comprising a compartment for maintaining a supply of said stock under a predetermined head, said compartment having an opening in a wall thereof at a predetermined distance below the top of said wall, a trough communicating at one end with said opening, said trough extending downwardly from said opening and terminating at its lower end between said flanges for delivering stock from said compartment to said foraminous surface of said drum on the ascending side of the latter, said trough having a section adjacent said opening of such slope that stock emerging from said opening under a predetermined head spills over the side edges of said trough, said trough also having a section of steeper slope adjacent said foraminous surface of said drum, and means for continuously determining the rate of drainage of water from said stock through a predetermined circumferential portion of said foraminous surface.

2,615,330

WEIGHT AND BALANCE INDICATOR

Truett M. Blackmon, Sherman Oaks, and Firmin D. Porter, Venice, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif.

Application November 13, 1945, Serial No. 628,190
8 Claims. (Cl. 73—65)



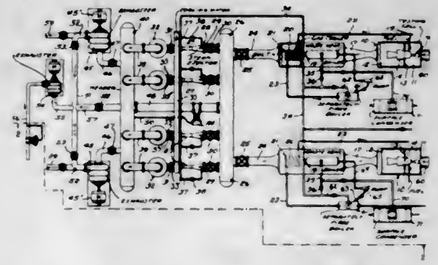
8. Apparatus for ascertaining the longitudinal location of the center of gravity of a vehicle having a source of voltage and having a group of ground-engaging means disposed ahead of the center of gravity of the vehicle and a group of such means disposed behind said center, each of said means including deflectable means adapted to deflect in proportion to the vertical load thereon; voltage-unbalance generating means operatively associated with each of said deflectable means and connected with said source, said generating means including an electrical arm actuated to generate voltage-unbalance by, and in direct proportion to, deflections of said deflectable means; means connected to said arm for receiving said voltage unbalance, said last means including a transductive portion for transmitting said voltage-unbalance onwardly; null-point indicating means having electrically opposite external terminals and having an internal circuit series-connected to said terminals; resistor means having a movable tapping-contact thereon; scale means graduated to indicate longitudinal positions of the center of gravity of the vehicle operatively associated with said movable tapping means so as to cause the location of said tapping means to index said scale-means; conductor paths defining a series circuit for induced voltage from the transductive means of the one of said groups of ground engaging means through said null indicating means and in series through said tapping means and resistor back to said transductive means; and conductor paths defining a series circuit for induced voltage from the transductive means of the other of said groups of ground engaging means in series through said resistor and tapping means and through said indicating means in opposing ratio to the first said induced voltage and back to the second-said transductive means; whereby the nulling position of said movable tapping means with respect to said scale means indicates the true longitudinal position of the center of gravity of the vehicle.

2,615,331

APPARATUS FOR TESTING AERONAUTICAL EQUIPMENT

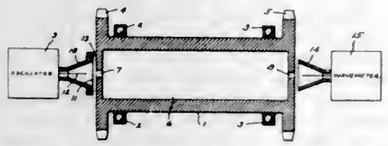
Edwin Lundgren, Frederick, Md., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application March 3, 1949, Serial No. 79,386
11 Claims. (Cl. 73—116)



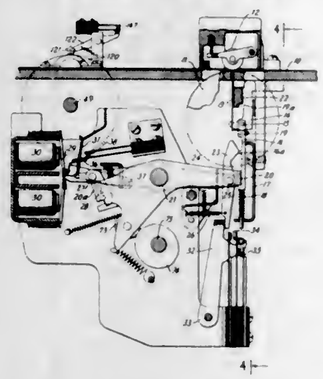
1. In apparatus for simulation of altitude conditions in the testing of jet propulsion aircraft engines, testing cell forming means, a partition dividing said testing cell into an inlet chamber and an outlet chamber, the testing cell being adapted to receive said jet engine so that it receives air from the inlet chamber and discharges exhaust gases into the outlet chamber, the inlet chamber and the outlet chamber of the testing cell being in communication with one another through said engine, refrigerated air conduit means communicating with the testing cell inlet chamber, a steam generator having a gas inlet and a gas outlet, the gas inlet being in communication with said gas outlet of the testing cell, the steam generator having steam generating surface in heat exchange relationship with gases flowing from the gas inlet to the gas outlet of the steam generator, a steam ejector with a suction inlet and a discharge outlet, the suction inlet being in communication with the steam generator outlet, steam conduit means communicating with the steam generator so as to receive steam therefrom and with the steam ejector so as to deliver steam thereto, a separately fired auxiliary steam generator in communication with the steam ejector and with the steam generating surface of the first-mentioned steam generator so as to deliver steam thereto, gas scrubbing means having a gas inlet and a gas outlet, the scrubbing means inlet being in communication with the discharge of said ejector, and conduit means in communication with the scrubber gas outlet and through which scrubbed gases pass from the scrubber means.

2,615,332
TORQUEMETER
Joseph G. Quinn, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 16, 1949, Serial No. 133,356
9 Claims. (Cl. 73—136)



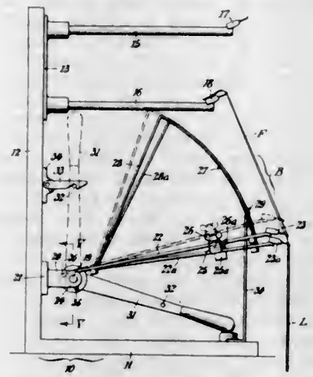
1. A torquemeter comprising a hollow shaft defining a cavity, means for applying to said shaft a torque to be measured, whereby such torque twists the shaft and alters the dimensions of said cavity, means for coupling to said cavity electromagnetic oscillations variable in frequency over a band of frequencies, and means for determining the frequency at which said cavity resonates.

2,615,333
RECORD CARD VERIFYING MACHINE
Elliott W. Gardinor, Conklin, Raymond E. Cheney, Endicott, and Lorin T. Bleuer, Vestal, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application May 20, 1950, Serial No. 163,182
14 Claims. (Cl. 73—156)



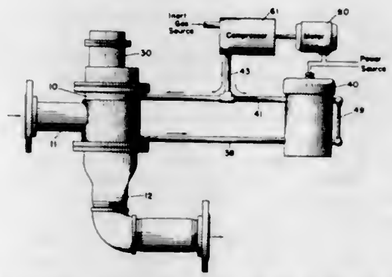
1. In a record card verifying machine, means for reading a column of a record card for perforations in index point positions therein, a plurality of keys, one for each index point position, a set of normally aligned reading elements, one for each position, means controlled by said reading means to cause an element or elements related to a perforated position or positions to move out of alignment, a set of normally aligned key elements, one for each key, each in engagement with a related reading element, and said key elements and said reading elements being movable along parallel paths, means controlled by the keys to cause a key element or elements related to an operated key or keys to move out of alignment, and indicating means jointly controlled by said reading elements and said key elements, for indicating a movement of an element of either set out of alignment without accompanying coextensive parallel movement in the same direction of the corresponding element in the other set.

2,615,334
TEXTILE INSPECTION APPARATUS
John Gift, Temple, Pa.
Application March 10, 1949, Serial No. 80,604
5 Claims. (Cl. 73—159)



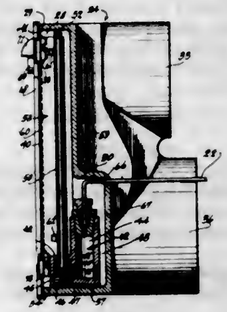
1. Inspection apparatus, for textile articles such as flat knitted selvaged hosiery blanks, comprising a fixed upright support; a pair of laterally spaced elements affixed to the support adjacent the top and adapted to engage the articles on a definite transverse line at the selvages; a horizontal shaft rotative in a bearing on the support at a level below the elements aforesaid; a pair of forwardly-reaching arms independently fulcrumed on the shaft and respectively provided at their distal ends with means for engaging the articles at the selvages on a transverse line spaced from the line first mentioned; weights on the arms adjacent the distal ends of the latter; and means for indicating any differences in the length between the two fabric edge portions while under tension.

2,615,335
PIPE LINE METERING DEVICE WITH BEARING PROTECTION MECHANISM
Einar T. Young, Ridley Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application July 15, 1948, Serial No. 38,911
1 Claim. (Cl. 73—231)



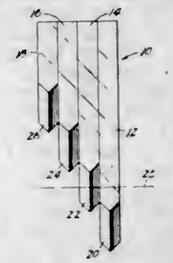
A flowmeter comprising a housing partitioned to provide an upper gas compartment containing transmission gearing for an associated flow indicator, an intermediate liquid-gas contact compartment and a lower liquid compartment containing a rotor operable by the flow of liquid therethrough, means for flowing liquid to and through said lower compartment, a rotatable shaft connected to said rotor and passing upwardly through said intermediate and upper compartments for operating connection with said transmission gearing, a shaft seal in the partition between said intermediate and lower compartments permitting restricted flow of liquid therebetween, means for admitting gas from an external pressure source to said upper compartment, and control means responsive to the liquid level in said intermediate compartment for regulating the flow of gas into said upper compartment.

2,615,336
INDICATING DEVICE FOR CLOSED TANKS
Theodore C. Smith, Drexel Hill, Pa.
Application September 30, 1949, Serial No. 118,897
1 Claim. (Cl. 73—299)



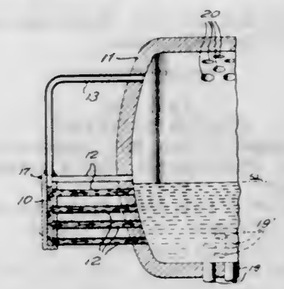
A tank filling installation comprising an open front box having fill, vent and indicator compartments, a cover for the front of said box, the fill compartment having an opening at the rear for connection with the inlet end of a fill pipe, the vent compartment having an opening at the rear for connection with the outer end of a vent pipe, an indicator unit arranged in the indicator compartment, said unit being of the indicator tube type including a supply of indicating fluid, a relief pipe connected at one end to said indicator unit, the other end of said pipe being adapted to extend into the top portion of a closed tank to sense the approach of liquid therein to final full charge, whereby in filling said tank the initial rise of the indicator fluid will apprise the serviceman of the tank content.

2,615,337
BATTERY LIQUID LEVEL INDICATOR
Gerald E. Maybach, Bowmansville, N. Y., assignor to National Battery Company, St. Paul, Minn.
Application May 6, 1948, Serial No. 25,458
8 Claims. (Cl. 73—327)



1. A liquid level indicator adapted to be mounted to extend into the interior of a darkened cell containing liquid subject to level fluctuations, said indicator comprising a plurality of light transmitting members elongated in the direction of extent into the cell and in one direction transversely thereof, said elements being formed at their lower ends with reflective faceted surfaces extending in the direction of said transverse extension and inclined therealong from the horizontal.

2,615,338
LIQUID LEVEL INDICATOR
Edward R. Kilsby, Newark, N. J., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application August 16, 1946, Serial No. 690,927
12 Claims. (Cl. 73—330)

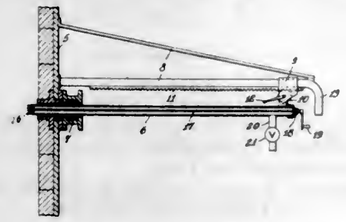


1. An indicator for indicating the level of vapor-laden liquid in a vapor and liquid drum of a vapor generator which drum has a vapor space above a normal vapor-laden liquid level in the drum and a vapor-laden liquid space below said level, said indicator being positioned outside the drum in spaced relationship thereto, the indicator comprising a gauge body having a substantially vertical passage, a plurality of conduits, one of said conduits being in communication with the drum adjacent the uppermost point at which the vapor-laden liquid in the drum is to be visibly indicated, another of said conduits being in communication with the drum adjacent the lowermost point at which the vapor-laden liquid is to be visibly indicated and intermediate conduits in communication with the drum at vertically spaced points intermediate said uppermost and lowermost points, each conduit being in communication with said passage at a point in substantially the same horizontal plane as its point of communication with the drum, indicating means communicating with said passage and adapted to visibly indicate the level of vapor-laden liquid therein at any level between said uppermost and lowermost levels, and a pressure equalizing connection between the vapor space of the drum and the upper part of the indicator passage.

2,615,339
APPARATUS FOR SAMPLING PULP
Sigbjörn Paul Herbert Ebbinghaus Holgersson, Ockelbo, Mac Sigurd Rudberg and David Rune Rydberg, Storvik, Sweden
Application November 2, 1948, Serial No. 57,972
In Sweden November 21, 1947
1 Claim. (Cl. 73—423)

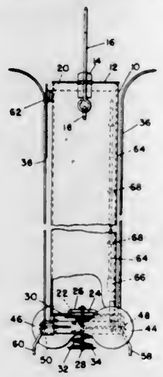
An apparatus for withdrawing samples from a digester in cooking chemical pulp, comprising a sampling tube slidably extending through the digester wall, said tube having an outlet valve adjacent its outer end, a disc covering the inner end of said tube, said disc having a smooth outer surface and being provided with at least one opening to permit entry of the pulp into said tube, a scraper arranged to rotate in contact with the outer surface of said disc, a packing box at

the outer end of the tube and a rotatable shaft passing through said packing box, extending



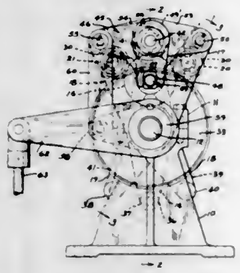
coaxially through the tube, and connected to said scraper to rotate the same.

2,615,340
LIQUID SAMPLER
Harold A. Quist, Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application May 3, 1951, Serial No. 224,364
8 Claims. (Cl. 73—425.4)



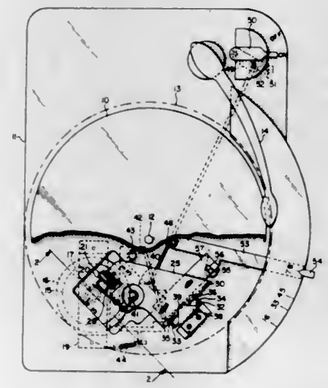
1. A device for selectively sampling liquid bodies comprising a closed receptacle having apertures therein adjacent the top and bottom thereof, vanes pivotally mounted on opposite sides of said receptacle, and closure means for said apertures adapted to respond to the movement of said vanes.

2,615,341
GEAR TRANSMISSION SYSTEM
John Louis Christmann, Passaic, N. J.
Application May 24, 1950, Serial No. 163,949
9 Claims. (Cl. 74—126)



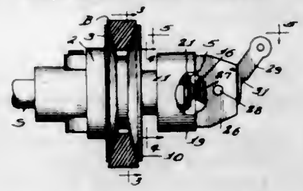
3. In a gear transmission system, a stationary frame, a shaft rotatively mounted on said frame, a first arm fulcrumed on said shaft, a gear rotative on said first arm, a second and third arm fulcrumed on said shaft, a pair of gears rotative on said second and third arms and meshing with said first named gear and having their centers spaced from the center of said first named gear to provide sufficient backlash for all of said gears to freely rotate, and said second and third arms being capable of pivoting towards each other to move said pair of gears towards each other, a double gear attached to each of said pair of gears, a fourth gear mounted on said shaft and meshing with said double gears, a crank arm pivotally mounted on said first arm, a pair of eccentrics substantially 180° from each other and coaxially mounted on said crank arm, links connecting said eccentrics with said second and third arms, a radial arm pivotally mounted on said shaft, and a link connecting said radial arm with said crank arm, whereby said radial arm may be moved in one direction to lock said gears and in the other to free said gears.

2,615,342
CONTINUOUSLY VARIABLE-SPEED TURNTABLE DRIVING SYSTEM
Ralph A. Mullaney, Elmwood Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application September 16, 1950, Serial No. 185,180
9 Claims. (Cl. 74—200)



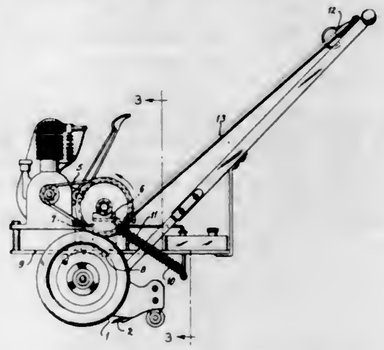
1. A driving system for a phonograph turntable comprising: a driving disc positioned parallel to said turntable for rotation about an axis disposed radially of the axis of rotation of said turntable and supported for axial displacement; an idler wheel interposed between the adjacent surfaces of said turntable and said disc; a movable carriage supporting said idler wheel at one end and having an elongated track-engaging member at the opposite end; an elongated track member providing a path of movement for said carriage such that said idler wheel travels substantially in a plane including the axes of rotation of said turntable and said disc, one of said members having a V-shaped portion and the other having an edge portion received by said V-shaped portion to permit pivotal movement of said carriage with respect to said track; resilient means urging said disc along its axis to complete a driving connection to said turntable through said idler wheel; and means for selectively displacing said carriage along said track member to control the rotational speed of said turntable.

2,615,343
COMBINED CLUTCH AND PULLEY
Paul F. Koch, Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company, a corporation of Illinois
Application December 1, 1951, Serial No. 259,374
5 Claims. (Cl. 74—230.24)



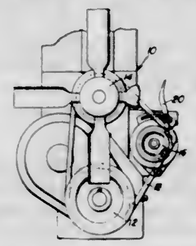
1. A pulley and clutch mechanism comprising a pulley divided into two members transversely of the pulley axis, one member having thereon an axial, tubular element extending through and being a sliding fit in the second member, said tubular element containing a slot extending diametrically through the same, a loose cross bar, the dimension of which in the direction of the length of said members is less than the corresponding dimension of the slot, extending through said slot and interlocked at its ends with said second member to hold the latter against rotary movements relatively to the other member, a casing rotatable on the outer end of the tubular element, a plunger slidable in the tubular element and engaged at its inner end with said bar, a cam means in the casing to force the plunger inward or allow it to move outward, said bar having at the middle a hole smaller in diameter than the plunger, and a projection on the inner end of the plunger fitting slidably in said hole, said projection being long enough to remain in said hole when the plunger is at the outer limit of its movements.

2,615,344
POWER TRANSMISSION
Edward Thomson, Ashley, Ill.
Application December 21, 1945, Serial No. 636,398
6 Claims. (Cl. 74—242.15)



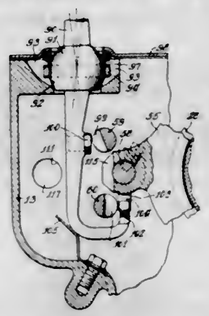
1. In apparatus of the class described the combination with a source of power and a device driven thereby, of driving connections therebetween comprising a drive shaft, supporting means therefor including a base and a supporting frame for the drive shaft mounted on the base by means permitting rocking and tilting movement of the frame, one end of said shaft being provided with a chain driving sprocket for delivery of power to the driven device and the other end provided with a belt driven pulley actuated by the power source, and adjustable means to limit the extent of rocking movement of the sprocket carrying end of the shaft in one direction.

2,615,345
FAN BELT TOOL
Raymond H. Ross, Midland, Mich., assignor of fifty per cent to Clarence Ross, Lansing, Mich.
Application September 8, 1950, Serial No. 183,821
1 Claim. (Cl. 74—242.7)



A drive belt installing tool comprising a rod of circular cross section, an integral, laterally offset, flat, arcuate bar extending forwardly from one end of the rod and adapted for face abutting engagement with one side of a pulley substantially flush with and conforming to the periphery thereof, and a pair of lateral, substantially U-shaped spaced hooks integral with the outer periphery of the bar and engageable with the peripheral portion of the pulley for supporting the rod tangentially thereon, said rod being longitudinally curved and engageable with a belt for guiding said belt on to the pulley.

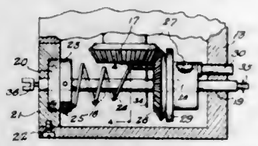
2,615,346
TRANSMISSION
John M. Simpson, Miami Beach, Fla., and Donald W. Kelbel, Muncie, Ind., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application October 29, 1945, Serial No. 625,316
13 Claims. (Cl. 74—375)



1. In transmission mechanism, the combination of input and output shafts, gearing to drive said output shaft from said input shaft at a low and a high speed ratio, friction clutch means serving to complete said low speed ratio and friction clutch means serving to complete said high speed ratio, a first reciprocable member effective upon movement thereof for actuating said first named friction clutch to complete said low speed ratio and a second reciprocable member effective upon movement thereof for actuating said second named friction clutch to complete

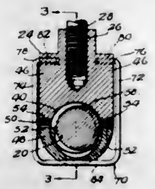
said high speed ratio, and a pivoted shifting lever adapted to selectively engage either of said members for moving the members, a greater force being required for actuating said first named friction clutch to complete said low speed ratio than is required for actuating said second named friction clutch to complete said high speed ratio, said first reciprocable member being located closer to the pivot of said pivoted shifting lever than is said high speed reciprocable member whereby the effective length of lever arm for said first reciprocable member is less than the effective length of lever arm for said second reciprocable member such that equal shifting forces applied to the pivoted shifting lever result in a greater force being applied for actuating said first named friction clutch than for actuating said second named friction clutch.

2,615,347
MOTOR DRIVE FOR CAMERAS
John L. Westhaver, San Diego, Calif.
Application January 20, 1950, Serial No. 139,677
5 Claims. (Cl. 74—411)



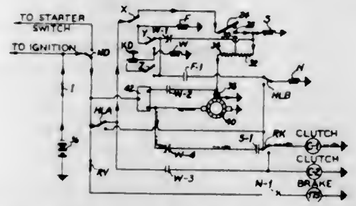
1. A drive means for cameras comprising a drive gear, a camera drive shaft, a driven gear longitudinally movable upon said camera drive shaft into and out of engagement with said drive gear, a yieldable means connecting said driven gear to said drive shaft and constituting an initial shock absorber upon the initial starting of the rotation of said shaft, a slidable plunger engaging said driven gear to move said driven gear into meshing engagement with said drive gear, said yieldable means being expansible and adapted to shift said driven gear to an inoperative position, and a releasable lock for holding said driven gear in an operative position for contact with said drive gear against the expansible action of said yieldable means.

2,615,348
MEANS FOR TAKING UP SLACK IN LEAD SCREW DEVICES
John William Gasser, Woodside, N. Y.
Application September 20, 1950, Serial No. 185,880
7 Claims. (Cl. 74—441)



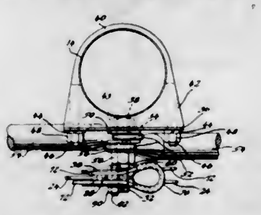
1. A nut for engagement with a threaded shaft, comprising a main nut body having a bore threaded to engage with said threaded shaft received therein, said nut having an oblique slot formed therein, and a nut tightening member disposed in said slot and movable therein in an oblique direction with respect to the axis of said bore and having only portions of the inner surface thereof threaded leaving other parts thereof unthreaded, said threaded portions being adapted to engage with the threads of said threaded shaft to take up any play between the main nut body and the threaded shaft, means for limiting the movement of said nut tightening member in a direction toward said bore whereby to prevent locking and resilient means biasing said nut tightening member toward said engagement with said threaded shaft.

2,615,349
AUTOMATICALLY CONTROLLED TRANSMISSION
Martin P. Winther, Gates Mills, Ohio, assignor to Martin P. Winther, Waukegan, Ill., as trustee
Application December 17, 1949, Serial No. 133,643
27 Claims. (Cl. 74—472)



1. Control apparatus for a transmission having a driven shaft and a plurality of electrically controlled elements including a clutch and a control brake, which transmission is driven by a prime mover having associated therewith an accelerator, a battery, and an electrical generator driven by said prime mover, the output of the generator varying in accordance with its speed; comprising an electrical network including said battery, a field coil of said generator, and a set of electrical contacts adapted to close upon depression of said accelerator, said battery, coil and contacts being series-connected, a series circuit including an armature of said generator and clutch-operating means adapted to modulate said clutch to closed condition in response to increasing output of the generator, and switch means operated by means responsive to the speed of said driven shaft and adapted to shunt said electrical contacts and to complete a second circuit when said switch is operated, said second circuit including brake-operating means and said battery in series.

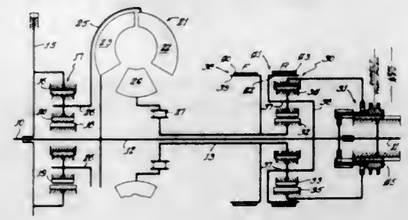
2,615,350
HAND BRAKE CONTROL
Nils Erik Wahlberg, Chicago, Ill., and Joseph F. Sladky, Detroit, Mich., assignors to Nash-Kelvinator Corporation, Kenosha, Wis., a corporation of Maryland
Application June 10, 1946, Serial No. 675,738
4 Claims. (Cl. 74—501)



4. A pulley, a projection formed on said pulley over which a cable may be passed intermediate the ends thereof, a clamping mechanism for a cable formed on the pulley comprising

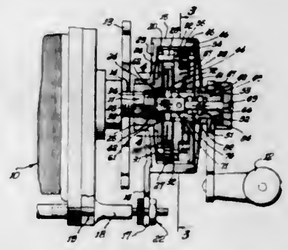
aligned apertures formed in the opposing sides of the groove of the pulley, a bolt extending through said apertures, a spacer telescopically positioned on said bolt between said sides of the groove, and a nut on the end of said bolt to force said sides inwardly toward said spacer.

2,615,351
TRANSMISSION
Donald W. Kelbel, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application April 26, 1945, Serial No. 590,332
8 Claims. (Cl. 74—732)



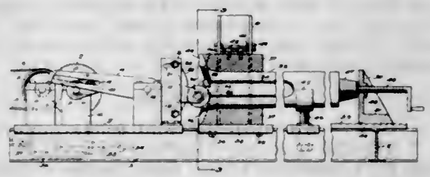
1. In a transmission, the combination of a drive shaft, a driven shaft, a hydraulic torque converter driven by said drive shaft and having a driven element, planetary gearing comprising a ring gear, planet gears, and a planet gear carrier, said planet gear carrier being connected with said driven element of said converter, means for braking an element of said planetary gearing whereby the ring gear is driven at a reduced speed with respect to said driven element of the converter, positive type clutch means for directly connecting said driven element and said driven shaft in one position of the clutch means and for connecting said ring gear and said driven shaft in another position of the clutch means, and means effective for each position of said positive clutch means for synchronizing the parts to be coupled by the clutch means and for blocking the engagement of the clutch means prior to such synchronization.

2,615,352
TRANSMISSION FOR FISHING REELS
Alexander G. Mies, Alhambra, and Ted S. Pflueger, Altadena, Calif.; said Mies assignor to said Pflueger
Application August 15, 1947, Serial No. 768,758
2 Claims. (Cl. 74—785)



1. A compact transmission for use with a fishing reel comprising: a cylindrical housing having an internal gear on the inner surface thereof; a tubular input shaft carried by the housing and rotatable concentrically therein, said shaft having an axial bore therethrough, a longitudinal slot communicating with the bore and extending partially the length of the shaft, and a plurality of axially spaced circumferential grooves formed in the inner surface of the bore and axially spaced along the slot; a disc rotatably mounted on said shaft and provided with a circular central opening and a notch formed in the inner circumference defining said opening; a sun gear fixed to said disc; a second disc rotatably mounted on said shaft and provided with a central circular opening and a notch formed in the inner circumference defining said opening; a set of planetary gears rotatably carried on said second disc and meshing with said internal gear and with said sun gear; an axially movable actuating pin in the bore of said shaft and extending outwardly thereof, said pin having a pair of axially spaced radially disposed channels formed therein; a radially extending pawl carried in one of said channels and extending through said slot and outwardly thereof and resilient means within said channel urging said pawl outwardly; a rounded positioning element carried in the other channel and resilient means within said other channel for urging the element outwardly, the pawl and positioning element being engageable with a selected notch and circumferential groove respectively; means for digitally moving the actuating pin axially of the shaft; and an output member locked to said first named disc and axially spaced therefrom.

2,615,353
SEMIAUTOMATIC ROTARY CABLE TOOL DRESSER
Milo Warren Ives, Ellenville, N. Y., assignor to Ives & Waters, Inc., Haverstraw, N. Y.
Application October 2, 1950, Serial No. 187,983
8 Claims. (Cl. 76—5)

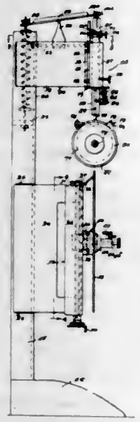


6. Bit dressing apparatus which includes means for holding an elongated bit stationarily, a roller mounted adjacent the drill bit holding means for oscillation across and in contact with an adjacent end of a drill bit held in said holder to reshape said end of the drill bit, means mounted adjacent the drill bit holder and operatively connected to the roller for imparting oscillatory movement to said roller, and means mounted adjacent the drill bit holding means and engaging the roller for positively rotating the roller as it oscillates.

2,615,354
GRINDING AND SHARPENING MACHINE
Laurence R. Higgins, Yakima, Wash.
Application March 9, 1951, Serial No. 214,758
5 Claims. (Cl. 76—41)

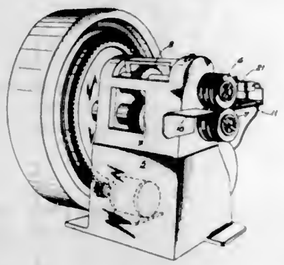
1. In a grinding and sharpening machine, an upright standard, work supporting means secured to the standard and adapted to demountably support a blade to be sharpened in a plurality of horizontally and vertically adjusted positions relatively to the standard, a sharpening wheel supporting unit including a frame rigidly secured to and supported by the standard above the work supporting means and having a vertically disposed sleeve, a shaft rotatably and slidably mounted in said sleeve, a bracket se-

cured to said shaft below the sleeve, a rotary sharpening wheel having a power source secured to said bracket for supporting the sharpening wheel in a vertical plane above the work supporting means and perpendicular thereto, means for adjustably retaining the shaft in the sleeve to support the sharpening wheel at different levels above said work supporting means and at various angles with respect thereto, a fulcrum member rising from the sharpening wheel sup-



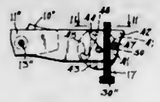
porting unit and slidably supported thereby for movement toward and away from said shaft, a beam fulcrumed intermediate of its ends on said fulcrum member having one end pivotally connected to the upper end of said shaft, and contractile spring means connected to the opposite end of said beam and adjustably connected to a portion of the standard to yieldably support the shaft and sharpening wheel and for normally raising the sharpening wheel to an elevated, inoperative position.

2,615,355
STOCK GAUGE TRIP APPARATUS
John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio
Application February 13, 1951, Serial No. 210,734
1 Claim. (Cl. 80—26)



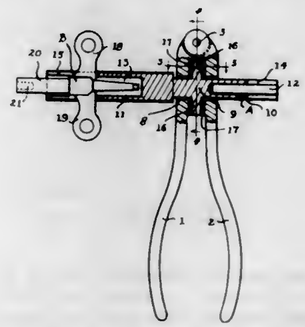
A rolling mill comprising a pair of cooperating gap rolls, a continuously rotating fly wheel, a clutch for transmitting fly wheel rotation to the rolls and a brake for arresting rotation of the rolls, a stock gauge mounted on the mill in alignment with the roll pass to be engaged by a blank passed through the gap in the rolls, said gauge being mounted for limited movement in response to said blank engagement, a control for said clutch, a control for said brake and common means operatively connecting said gauge and controls, said common means actuated by movement of said gauge to rotate the rolls and move the blank away from the gauge as it is being rolled, and means operated by roll rotation to disengage the clutch and apply the brake to stop the rolls with the roll gaps opposed.

2,615,356
PUNCH PLIER FOR EYEGLASS FRAMES
John J. Greco, Brooklyn, N. Y.
Application July 16, 1949, Serial No. 105,078
3 Claims. (Cl. 81—3.6)



3. An optician's hand-tool comprising a pair of pivotally interconnected members shaped and arranged to present at a working zone a pair of jaws relatively movable for approach of one jaw toward the other, a means for urging said jaws toward a predetermined normal separation, a tubular die carried by one of said jaws, a pointed plunger projected from the other jaw and so fixed and disposed on the latter that on relatively moving said jaws the pointed end of said plunger moves toward entry into the adjacent end of said die, said die having a bore extending therethrough from end to end and being externally threaded, and means for rotating said die relative to said jaw about an axis at right angles to the bore of the die, said rotating means comprising a pivotally mounted disk mounted on the said one jaw and having a tapped aperture through which said die is threaded, the axis of said tapped aperture being located to one side of the axis of pivoting of the disk, said disk also having a cut-out shaped to act as an anvil having a localized depression when the disk is given an angular movement to dispose said anvil near the side of the die-carrying jaw which faces the other jaw, the parts being so arranged that when said disk is in another angular adjustment the die is extended so that its bore is in line with said plunger, and means for positively detaining the disk in either of its two said angular adjustments.

2,615,357
TOOL FOR RELEASING CLOCK SPRINGS
Beryl F. Cameron, Cambridge, Ohio
Application July 27, 1949, Serial No. 107,035
3 Claims. (Cl. 81—6)



1. A tool of the character described comprising, a shaft having means for quickly detachably engaging the spring arbor of a clock or the like,

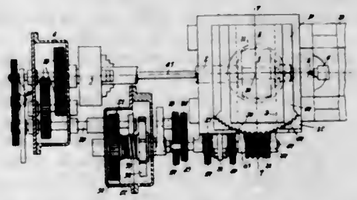
a pair of inter-connected jawed handles supporting said shaft for free axial rotation, the jaws being movable toward and away from one another in a direction longitudinal of the longitudinal axis of the shaft, the shaft intermediate the jaws being provided with an outwardly extending circumferential flange, and the opposite sides of said flange being engaged by the inner faces of the jaws upon movement of the jaws towards one another.

2,615,358
CAM ACTUATED SIDE JAW WRENCH
George E. Garno, Grafton Center, N. H.
Application July 18, 1950, Serial No. 174,444
3 Claims. (Cl. 81—128)



1. A wrench comprising a handle, a pair of jaw members, one of said jaw members being fixed to said handle, means slidably supporting the other of said jaw members for motion transverse to said handle for motion toward and from said one member, said handle having a slot longitudinally thereof, said other jaw member having a slot inclined lengthwise of said handle, a pin slidably guided in said handle slot, a shoe supported on said pin and slidably guided in said jaw member slot, an means yieldingly pressing said pin toward one end of said handle slot in a direction to close said jaw members.

2,615,359
MEANS FOR CUTTING PROJECTING GEAR TEETH
Stanley Smith Cook and Louis Mortimer Douglas, Wallsend-on-Tyne, England, assignors to The Parsons Marine Steam Turbine Company Limited, Wallsend-on-Tyne, England
Application November 27, 1946, Serial No. 712,606
In Great Britain September 14, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 14, 1965
3 Claims. (Cl. 82—19)



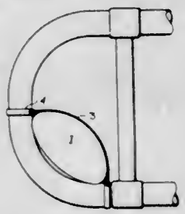
1. A machine for producing a hob for cutting internally projecting gear teeth of concave involute form, comprising a lathe slide rest, cross slide thereon, a saddle associated with said cross slide, a circular guide for said saddle, a tool holder carried on said saddle, the cross slide being adjustable to locate the axis of movement of the saddle as guided by the circular guide in a position intersecting the axis of rotation of the lathe or on the far side thereof with reference to the tool holder, means for imparting intermittent rotary motion to said saddle proportional to the rotation of the work between cuts on successive hob teeth and means for relieving both sets of flanks of hob teeth simultaneously with the production of peripheral relief for said teeth, the last said means comprising means for moving the tool radially toward and away from the axis of rotation of the saddle.

2,615,360
KEY HEAD FOR STRINGED MUSICAL INSTRUMENTS
Ferris A. Hawy, Columbus, Ohio
Application June 7, 1949, Serial No. 97,625
2 Claims. (Cl. 84—293)



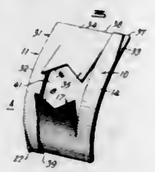
1. In a lute, a neck portion terminating at one end in a laterally extending integral key-carrying head, the upper side of the head being formed with a recessed string-receiving chamber bounded by vertical marginal walls, string-winding and tuning stems extending perpendicularly through said head and terminating at one end within the confines of the marginal walls of said chamber, the under side of said head being provided with a pair of parallel longitudinally extending straight grooves, stationary metallic members positioned in said grooves, rotatable key members carried by said metallic members, and worm gearing actuated by said key members for imparting controlled rotation to said string-winding stems.

2,615,361
TROMBONE BALANCER
Thomas H. Ebbert, Los Angeles, Calif.
Application December 7, 1949, Serial No. 131,675
2 Claims. (Cl. 84—395)



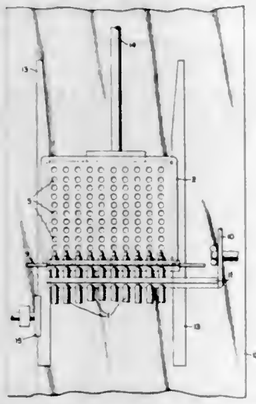
1. A trombone balancer comprising a weight having a contour adapted for engagement with the curved inner face of a trombone tuning slide bow and having attaching means comprising a pair of clips for engaging the tubular face of the tuning slide bow with a spring connection enveloping the balance weight for holding the same on the tuning slide bow.

2,615,362
FASTENING DEVICE
Edwin T. Churchman, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application September 5, 1947, Serial No. 772,334
1 Claim. (Cl. 85—36)



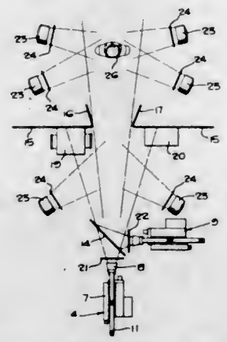
A fastener comprising a pair of substantially duplicate unitary sheet metal separable locking members having portions thereof, adapted to be connected to one another in superposed relation to effect an operative assembly, each of said locking elements comprising a base portion having an end portion, longitudinally extending spaced leg members integral with said end portion, and an integral longitudinally extending tongue element extending from said end portion in the space between said leg members, and fixed latching means provided on the free end portion of one leg member of each locking element for readily detachably connecting said locking elements to one another, said tongue elements provided by said locking elements being oppositely disposed and spaced from one another when said locking elements are in connected assembly, and adapted to engage and hold, under spring force, a member to be secured, passed therebetween.

2,615,363
MACHINE FOR CHARGING DETONATOR CARRYING PLATES
Roger W. Martyn, Fairlie, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application February 10, 1948, Serial No. 7,427
In Great Britain March 19, 1947
2 Claims. (Cl. 86—46)



1. A machine for charging a detonator carrying plate with empty detonator tubes comprising in combination means for holding a removable detonator carrying plate in position, a slidable feed plate adapted to rest on the detonator carrying plate held in said position and having holes which taper towards the bottom face thereof and correspond in position to those in the carrying plate, a row of detonator tube guide-tubes positioned above the feed plate and adapted to be inclined at a variable angle to the vertical, and means permitting the slidable feed plate and carrying plate when their respective holes are out of alignment to move together below the row of guide-tubes, in which machine the slidable feed plate is adapted to slide laterally across the carrying plate between two limits so that in one extreme position the holes of the plates coincide and in the other position they do not coincide and in which the row of guide-tubes when inclined at a suitable angle to the vertical is at such a distance from the slidable feed plate as to permit the detonator tubes projecting from below them to slide over those that have fallen into the holes of the feed plate on the carrying plate.

2,615,364
METHOD OF OBTAINING REGISTRY BETWEEN SEPARATELY PHOTOGRAPHED ACTION SCENES
Albert W. Tondreau, Westwood Village, Calif., assignor to Warner Bros. Pictures, Inc., Burbank, Calif., a corporation of Delaware
Application January 30, 1950, Serial No. 141,264
6 Claims. (Cl. 88—16)

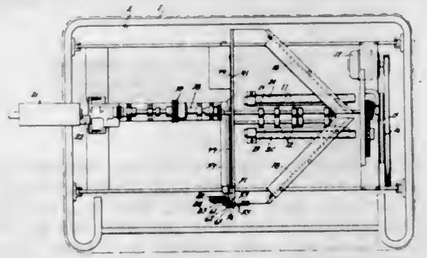


1. The method of obtaining exact registry between two portions of a motion picture sequence, comprising photographing a portion of the action of a sequence with a background, processing said film strip to provide an outline of said action on the frames of said film strip, placing a frame from the terminal end of said film strip on the view finder of a camera for photographing the remainder of said sequence, aligning the action of said first portion with its outline thereof on said frame on said view finder, and continuing the photographing of the remainder of said sequence.

2,615,365
PHOTOGRAPHIC MICRORECORDING APPARATUS
Elmer L. Johnson, Chicago, Ill., assignor to Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application August 24, 1948, Serial No. 45,828
3 Claims. (Cl. 88—24)

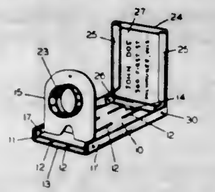
1. In photographic micro-recording apparatus, the combination of sheet feeding means adapted to sequentially feed sheet material edgewise past a photographic field, a photographic camera, means for longitudinally feeding a sensitized photographic strip in said camera in timed relation with the feed of said sheet material, means for projecting from said photographic field images of opposite faces of said sheet material respectively onto adjoining longitudinal sections

of said photographic strip, exposure control means for selectively cutting off the projection of images of one face of said sheet material to said photographic strip so as to expose only one of said strip sections to images of the other face of said sheet material, a cabinet enclosing the major portion of the apparatus and provided with an access opening at the top thereof and a top closure member movable into and out of position closing said opening, said exposure control means being disposed within said cabinet and being accessible for manual actuation through said opening, an electric motor associated with said cabinet for driving said sheet material and sensitized strip feeding means, two



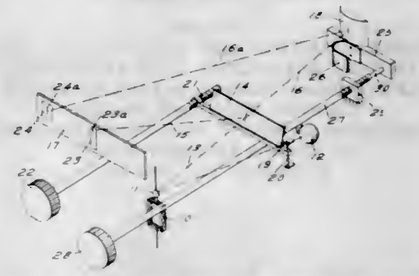
electro-responsive indicating devices associated with said cabinet and observable from the exterior thereof, an indicating circuit including said indicating devices and a double throw switch having its pair of alternate contacts respectively connected with said indicating devices for alternately energizing the same, switch actuating means operative between said exposure control means and said switch for alternately energizing said indicating devices to indicate the exposure or only one of said strip sections, and circuit means for simultaneously energizing said motor and said indicating circuit and deenergizing the same, to indicate operation and nonoperation of said motor.

2,615,366
FILM IDENTIFYING DEVICE
Richard Rothweiler, Milwaukee, Wis., assignor to The David White Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 11, 1951, Serial No. 225,758
3 Claims. (Cl. 88—24)



1. A film identifying device to be used in combination with a photographic camera, said device comprising, a flat base turned upward at both of its longitudinal edges, and having open slots extending inward from its lateral edges, a front plate, a rear plate, both said front and rear plates hingedly attached at one of their edges to the upwardly extending longitudinal edges of said base plate, said front and rear plates bent inward at right angle at their attaching ends, between their points of attachment to said base plate thereby providing contact members for slidably engaging with the base plate between said open slots, said front plate having a circular opening therein, a cylindrical adapter engaging said opening, said rear plate provided with means for supporting an identification card.

2,615,367
REFLECTING MEASURING DEVICE WITH DUAL SENSITIVITY
George E. R. Murray, Feasterville, and Benjamin J. Wilson, Oreland, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 3, 1947, Serial No. 771,980
10 Claims. (Cl. 88—74)



7. In a measuring instrument of the type including an optical system in which a movable member produces deflection of a light beam, the combination of a scale disposed to receive a high-sensitivity component of the light beam and a low-sensitivity component of the light beam for determining in two degrees of sensitivity the extent of any movement of said movable member, a light-transmitting and reflecting optical element disposed in the path of the light beam for dividing the beam into a reflected component and a transmitted component, a light-diverging optical element interposed in the path of one of said components for increasing the deflection thereof produced by any movement of said movable member to a greater extent than the other component of said beam, and means including said optical elements for directing said components upon said scale.

2,615,368
BALL AND SOCKET MOUNTING FOR MIRRORS AND THE LIKE
James McK. Bindley, East Cleveland, Ohio
Application February 27, 1950, Serial No. 146,533
2 Claims. (Cl. 88—98)



1. A rear-vision mirror assembly comprising an elongated mirror, a shallow metal stamping enclosing the back of said mirror and with the latter secured therein, said stamping having an outwardly bulged portion generally centrally thereof with an inwardly directed generally hemispherical depression in such bulge, a ball adapted to fit in such depression and provided with a stem for mounting the same, a thin, resilient sheet metal stamping adapted to fit over said ball and provided with a central opening to accommodate said stem, the portion of said latter stamping around such opening being outwardly flared to engage and seat said ball in a

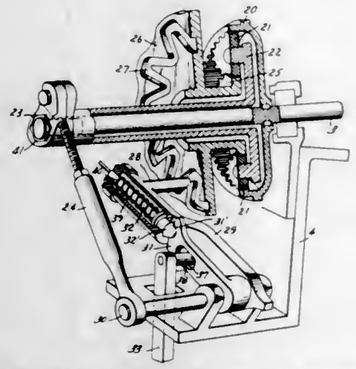
region generally opposed to such hemispherical depression, a resilient flat sheet metal ring within such bulge in said first stamping and encircling such depression, said ring being soldered in such position at spaced points of attachment, spaced opposed apertures in said two stampings for insertion of screws therethrough, and aligned speed-nut type apertures in said flat ring adapted threadedly to engage such screws to secure said second stamping in resilient clamping engagement with said ball, such central opening in said second stamping being cut away at one side to permit swinging of said stem into position generally parallel to said mirror.

2,615,369

SHOCK CONTROLLED ROTATABLE CARTRIDGE MAGAZINE FOR FIREARMS

Karl Emanuel Jansson and Walter Erland Ericsson, Karlskoga, Sweden

Application October 7, 1948, Serial No. 53,266
In Sweden February 3, 1947
3 Claims. (Cl. 89—33)



1. A shock absorbing device for a cartridge magazine of a recoiling gun comprising a shaft mounted for rotation in unison with said magazine, and yielding coupling means disposed between said magazine and a member of the gun partaking in the recoil movement of the gun for controlling the rotary feed motion of the magazine, said coupling including a disc operatively connected to said magazine shaft and having a star-shaped guide groove in one of its faces, the star points of said groove corresponding to cartridge positioning recesses of the magazine, a reciprocatingly mounted guide member including a pin slidable in said groove for controlling the velocity of the feed rotation of the magazine, and a control member operatively connected with said member partaking in the recoil action of the gun and actuated by the said recoil movement for effecting a reciprocating movement of said guide member in response to the recoil action of the gun and the feed rotation of the magazine.

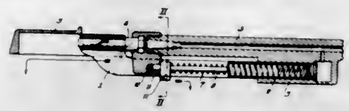
2,615,370

AUTOMATIC GAS PISTON OPERATED FIREARM

Josef Koucký, Prague, Czechoslovakia, assignor to Zbrojovka Brno, Narodni Podnik (Brno Arms Factory, National Corporation), Brunn, Czechoslovakia, a corporation of Czechoslovakia

Application September 24, 1948, Serial No. 51,088
In Czechoslovakia September 26, 1947
1 Claim. (Cl. 89—191)

An automatic fire-arm comprising a body portion, a barrel attached to said body portion, a gas cylinder formed integrally with said barrel and means establishing communication between the interior of the barrel and said gas cylinder, a breech casing, a breech block, a breech block carrier operatively associated with and arranged to carry and actuate said breech block, a gas piston formed integrally with said breech block carrier, said gas piston being slidably mounted in said gas cylinder for actuation by gas in said barrel to move said breech block carrier to actuate said breech block when the fire-arm is discharged, a rod removably supported at one end by a socket in said body portion and extending therefrom in axial alignment with said gas piston and cylinder, a head fixedly secured to said rod adjacent its supported end, and a coil spring sur-



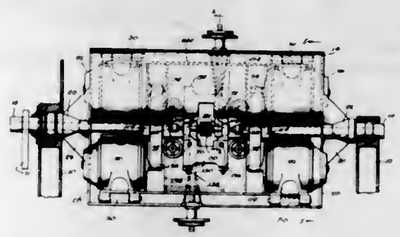
rounding said rod and extending between said gas piston and said head and precompressed to exert force on said head and said gas piston to hold said rod to said body portion and to resist movement of said gas piston, said head having portions engaging said breech block carrier to slidably support and guide said carrier, said rod and head being adapted to be readily removed manually from said body portion by compression of said spring in a direction toward said gas piston, said breech block carrier upon axial movement being removable from said body portion, and being readily removed after compression of said spring and removal of said rod including said spring by sliding said piston from said gas cylinder.

2,615,371

MILLING MACHINE AND METHOD

Theodore S. See, Hammond, Ind., assignor to La Salle Steel Company, Chicago, Ill., a corporation of Delaware

Application February 10, 1948, Serial No. 7,372
2 Claims. (Cl. 90—15)



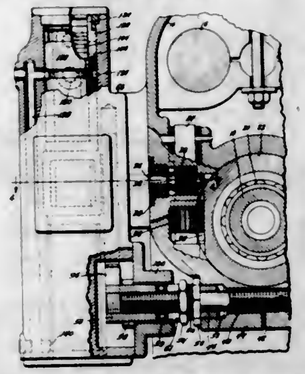
1. A machine for milling metal at high speeds comprising, in combination, a rotary frame, a plurality of frame members pivotally mounted on said rotary frame, a plurality of motors carried by said frame members, a plurality of cutters respectively mounted on said frame members and driven by said motors, means for independently adjusting said frame members about the pivotal mountings thereof to adjust the position of the cutters with respect to one another, a plurality of bearing assemblies disposed axially of and on opposite sides of the cutters for rigidly supporting the work piece, and means for adjusting the bearings in said assemblies with respect to one another, whereby work pieces of different sizes may be accommodated by the machine.

2,615,372

MILLING MACHINE SPINDLE AXIAL SHIFT CONTROL

Edward E. Coffin, Providence, R. I., assignor to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island

Application March 2, 1948, Serial No. 12,653
20 Claims. (Cl. 90—16)



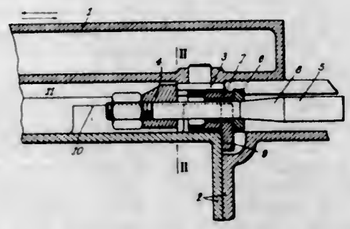
1. In a milling machine having a rotary milling cutter spindle, a spindle support, and a milling cutter spindle sleeve within which the spindle is rotatably mounted axially shiftable on said support between operative and retracted positions, a spindle sleeve shifting device, a spindle sleeve clamping device, power means, a driving member actuated thereby, connections between said member and shifting device responsive to movement of said driving member for actuating said spindle sleeve shifting device and arranged for movement to a predetermined position in which the spindle sleeve is shifted to operative position, connections between said member and clamping device responsive to movement of said driving member for actuating said sleeve clamping device including a lost motion connection operative to effect the clamping of the spindle only after the spindle has been moved to the operative position.

2,615,373

SAFETY STOPPING DEVICE FOR MOVABLE MACHINE-TOOL MEMBERS

Pierre Pégard, Courbevoie, France, assignor to Societe: Ateliers G. S. P., Guillemin, Sergot Pégard, Courbevoie, France

Application February 2, 1950, Serial No. 141,888
In France February 15, 1949
3 Claims. (Cl. 90—58)



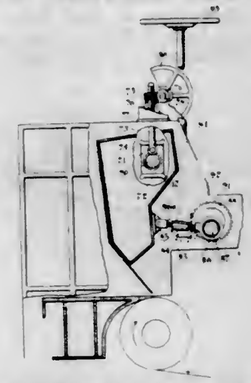
1. In a machine tool of the type including a carriage arranged to reciprocate between two limit positions, a safety device for yieldably arresting said carriage when overrunning one of its limit positions, a safety device for yieldably ar- a stationarily mounted die member, a drawable bar having a portion fitting through the opening of the die member and a portion wider than said opening, the fitting portion of the bar being extended through the die opening, a first dog fixedly secured to said fitting portion, and a second dog secured to said carriage for movement in unison therewith and engageable with said first dog, engagement of the said dogs forcing the wider bar portion through the die opening thereby yieldably arresting the carriage, the said dogs being disposed in a relative position in which they are engageable for the purpose aforesaid only when the carriage overruns one of said limit positions.

2,615,374

SLICE ASSEMBLY FOR PAPERMAKING MACHINES

Bernard A. Malkin, Lachine, Quebec, Canada, assignor to Dominion Engineering Works Limited, Lachine, Quebec, Canada

Application October 4, 1948, Serial No. 52,642
19 Claims. (Cl. 92—44)



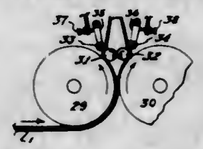
13. In a pond and slice assembly of the character described, a pair of laterally spaced, vertically elongated pond plates, a slice plate carrier arranged between said pond plates, pivot shafts carried by the upper portion of the slice plate carrier and journalled in bearings carried by the upper portion of the pond plates to provide a pivotal axis about which the slice plate carrier is swingable to different positions of adjustment and means for swinging said slice plate carrier to said different positions of adjustment comprising adjustable link members each having one end pivotally secured to one side of the lower portion of the slice plate carrier and the other end pivotally secured to the lower portion of one of said pond plates.

2,615,375

APPARATUS FOR SEPARATING CONJOINTLY GATHERED BAG TUBE WALLS

William Wallace Rowe, Carroll L. Spangler, and Roy C. Frick, Cincinnati, Ohio, assignors to Cincinnati Industries, Inc., Lockland, Ohio, a corporation of Ohio

Application August 24, 1948, Serial No. 45,888
5 Claims. (Cl. 93—8)



2. In apparatus for separating bag tube walls, means for continuously moving a supply of bag

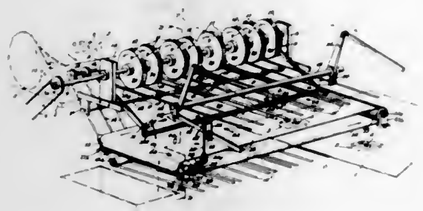
tubing, a separating roll to be positioned within and in engagement with one wall of the bag tubing to cause separation of the walls thereof, two retaining rolls for said separating rolls mounted in opposed relation to said separating roll externally of said one wall of the bag tubing and being spaced apart a distance sufficient to support said separating roll in pyramidal fashion, and additional means acting on said separating roll to maintain it in contact with said retaining rolls, whereby movement of said separating roll in the direction of movement of the bag tubing will be resisted by the retaining rolls, and the separating roll thereby maintained in proper separating position within the bag tubing.

2,615,376

DEVICE FOR AUTOMATICALLY REMOVING WINDOW CUTOUTS FROM BLANKS

Alexander Pelikan, New York, N. Y., assignor to Federal Carton Corporation, North Bergen, N. J., a corporation of New York

Application June 9, 1949, Serial No. 98,038
2 Claims. (Cl. 93—36)



1. Means for removing window areas from blanks wherein the outlines of the window areas had been previously scored, said means comprising at least a pair of conveyor tapes for the blanks and at least one drum member, said drum member being rotatively supported and positioned above and intermediate the pair of tapes, said tapes being widely laterally spaced from the drum, said drum being above the path of travel of a succession of window areas, window knock-out elements carried by and projecting radially outward from the periphery of said drum member, said knock-out elements being positioned to engage the window areas and force the same downwardly out of the blanks, and narrow supporting members abutting the lower surface of each of the tapes in the region beneath the axis of the drum and substantially of the width of the tapes, each supporting member lying to the side of the path of travel of said knock-out elements, the window areas being removed solely by the action of the knock-out elements and the resistance to downward displacement of the blanks afforded by the tapes and their underlying supporting members.

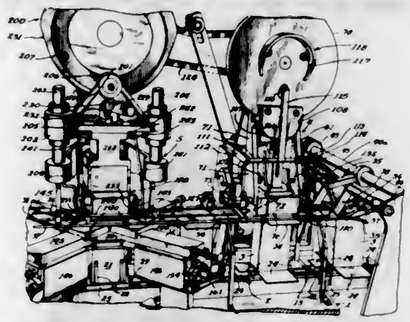
2,615,377

APPARATUS FOR MAKING SEALED PACKAGES

Robert A. Farrell, Menasha, and William G. Mueller and August Bartes, Jr., Neenah, Wis., assignors to Marathon Corporation, Rothschild, Wis., a corporation of Wisconsin

Application May 10, 1949, Serial No. 92,344
11 Claims. (Cl. 93—36.01)

1. A machine for making leakproof packages comprising means for positioning a tubular carton having end flaps, means for supporting said flaps in an extended substantially horizontal position, means for positioning a heat sealable membrane over the carton end with the margins thereof overlapping at least portions of said flaps, heated means for depressing the membrane



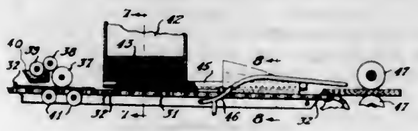
within the open carton, means cooperating with said heated means to press the walls of the carton inwardly whereby said membrane is sealed against the inner periphery of said carton and heated means for sealing the membrane margins to said flaps.

2,615,378

APPARATUS FOR ASSEMBLING MULTIPLE PART EGG CONTAINERS AND THE LIKE

Samuel Bergstein, Cincinnati, Ohio

Original application May 22, 1948, Serial No. 28,705, now Patent No. 2,571,408, dated October 16, 1951. Divided and this application November 14, 1950, Serial No. 195,559
5 Claims. (Cl. 93—37)



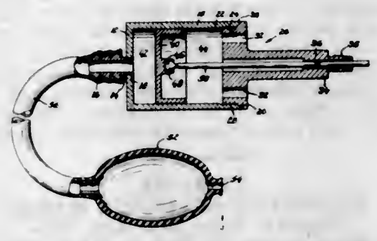
1. In apparatus for assembling containers comprising an outer band and an inner partition element, means for moving said outer band blank in a predetermined path of travel, said means comprising a plurality of chains moving in timed relationship having aligned lugs for engaging the trailing edges of the outer band blanks, a hopper positioned above the path of travel of said blanks and adapted to contain said inner partition elements, said hopper having angular guide rails paralleling the path of travel of said blanks and arranged to position the lowermost partition element in said hopper in the path of travel of said lugs, glue applying means for applying predetermined longitudinal glue stripes to said outer band blanks, said hopper being positioned to align said partition elements to overlie said glue stripes, one of said guide rails extending beyond said hopper so as to retain one edge of each inner partition element suspended above the underlying blank after the elements have been withdrawn from the hopper, whereby one edge at least of each partition element is maintained out of contact with an underlying glue stripe while the opposite edge of each partition element is in contact with another of said glue stripes, and means for folding said outer band blanks about the last mentioned edge of said partition element while said first mentioned edge is maintained out of contact with said blank.

2,615,379

FLUID OPERABLE SHUTTER RELEASE

Kenneth C. De Groff, South Bend, Ind.

Application October 29, 1949, Serial No. 124,392
1 Claim. (Cl. 95—54)



For use in combination with a camera shutter, a pneumatic shutter release comprising a casing having a cylindrical bore, a piston movable under the influence of differential air pressure and reciprocably received in said bore, said piston having an axial length of sufficient dimension to overcome the tendency of said piston to tilt and become wedged against movement in said bore, the ends of said piston near its outer peripheral surface merging with said peripheral surface in sharp right angle corners whereby reciprocatory motion of said piston cleans foreign matter from the surface of said bore, a guide member secured at one end of said bore and having a relatively long projection extending away from said bore, said projection having a guide opening substantially coaxial with said bore, an actuating pin guided in said guide opening against lateral motion and for reciprocatory movement, said pin having one end extending out of the end of said projection and adapted to engage the tripping mechanism of the camera shutter, and the other end provided with a ball, said piston being cup-shaped with the open end thereof facing said guide member and having a boss extending from the bottom thereof into a location which is midway between the ends of said piston, and a socket which is substantially centered axially and radially with respect to said piston being provided in said boss and loosely receiving said ball, said socket having its outer end reduced in size so as to engage loosely said ball whereby said pin will have universal swivelling movement with respect to said piston and will reciprocate in accordance with reciprocatory movement of said piston.

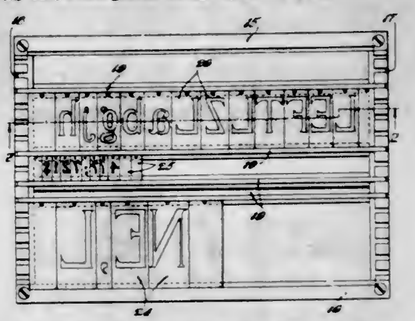
2,615,380

CONTACT PRINTING MACHINE WITH PHOTOTYPE

Joseph F. Murphy, West Roxbury, Mass., assignor to Lumitype Corporation, Roxbury, Mass., a corporation of Massachusetts

Application December 1, 1948, Serial No. 62,895
1 Claim. (Cl. 95—73)

A contact printing device for holding type blocks having thereon transparent letters, said device comprising a rectangular lamp-enclosing casing presenting at its top a type holder which includes in its structure a rectangular frame having side members and transverse end members all shouldered and providing a continuous marginal ledge inside the casing, the end members having upwardly opening slots at oppositely located points, and a series of transverse bars removably fitting into the slots of the end members and retained in spaced position thereby and having ledges on both sides disposed at the same level as the marginal ledges, a hinged cover over-



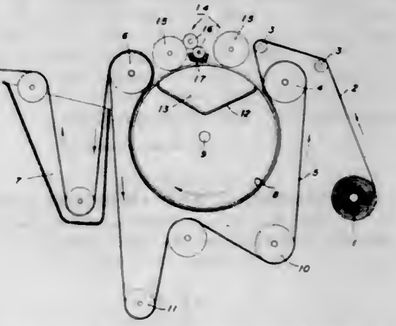
lying the area of the type holder, and an operating handle for the cover.

2,615,381

DEVICE FOR PHOTOGRAPHICALLY PRINTING ON TEXTILE FIBERS

Theodor Haefeli, Lucerne, Switzerland, assignor, by mesne assignments, to Collux A. G., Vaduz, Liechtenstein, a company of Liechtenstein

Application December 9, 1949, Serial No. 132,159
1 Claim. (Cl. 95—77.5)



An automatic apparatus for producing color patterns with a light sensitive dye on a textile fabric, comprising, a revolving glass cylinder suspended along a portion of its periphery by an endless conveyor belt, a printing pattern attached to said cylinder, radiant heating and illuminating means supported within said cylinder, a driving roller in contact with said conveyor belt to drive said conveyor belt and glass cylinder, guiding rollers to guide said conveyor belt, a fabric feeding roller to feed the fabric between the conveyor belt and the revolving cylinder, a tensioning roller between said fabric feeding roller and said cylinder to provide smudge-free contact between the fabric and the glass cylinder, a shaped reflector within said glass cylinder, an air flue and cooling means above said glass cylinder and moistened wiping device in peripheral contact with said glass cylinder to wipe said cylinder.

2,615,382

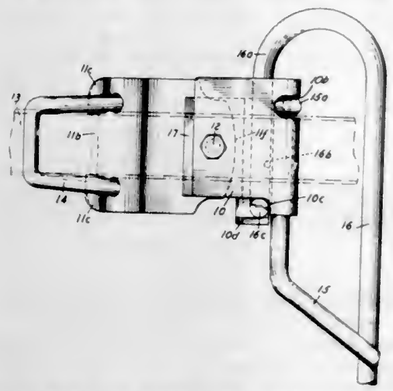
WEEDHOOK FOR PLOWS

Earl E. Sands, Detroit, Mich., assignor to Dearborn Motors Corporation, Highland Park, Mich., a corporation of Delaware

Application May 6, 1950, Serial No. 160,418
3 Claims. (Cl. 97—193)

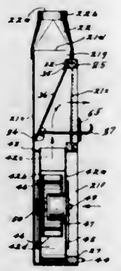
1. In combination with a pair of plow weed hooks each having a cylindrical mounting portion

and a bent end adjacent said mounting portion, a generally U-shaped stamping having a curved bight portion, said mounting portion of one of said weed hooks being insertable in said stamping to lie in contiguous relation to the inner surface of said bight portion, said bight portion having a transverse slot therein receiving said bent end of said one weed hook to limit pivotal move-



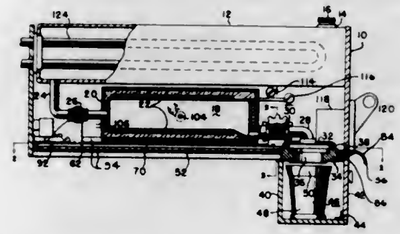
ment of said one weed hook, said mounting portion of said other weed hook being inserted in said U-shaped stamping adjacent to said one weed hook, a tab formed on the edge of said stamping and cooperable with the bent end of said other weed hook to limit pivotal movement thereof, and means insertable in said stamping for retaining said week hooks therein and for mounting said stamping to a plow.

2,615,383
VENTILATING AND HEATING DEVICE
Louis J. Jenn, Indianapolis, Ind.
Application October 3, 1949, Serial No. 119,225
6 Claims. (Cl. 98—33)



1. A heating and ventilating device having in combination, a housing of general parallelopiped form and substantially rectangular in front elevation and disposable in a wall of a room and between a pair of vertically extending studding, said housing having lower and upper front openings disposed substantially in a common vertical plane, said upper opening providing an outlet into said room and said lower opening providing an intake for air from the said room, a fan in the lower part of said housing closely adjacent and having its inlet side facing said lower opening, a discharge duct secured to the top of said housing and extending upwardly between said studding and having a discharge end communicating with the atmosphere, a damper pivoted about a horizontal axis adjacent the top of said upper opening and disposed in said housing at the rear of said upper opening and adapted to be swung to a front substantially vertical position for directing all of the air drawn through said lower opening up through said discharge duct or to be swung to a rearward position for directing all of said air through said upper opening into said room or to be positioned at some intermediate point to divide the passage of air by directing the same through both the exhaust duct and the outlet into the said room, means secured in upper opening extending across the same for warming air passing therethrough, and means for so positioning said damper whereby different amounts of the air in said room can be circulated through said housing and said air may be warmed if so desired.

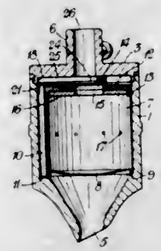
2,615,384
AUTOMATIC BEVERAGE MAKER
Frank S. Ranz, Blue Ash, Ohio
Application June 30, 1949, Serial No. 102,249
9 Claims. (Cl. 99—282)



1. In combination; a reservoir, a heating chamber having an inlet connected to said reservoir and also having an outlet, valves in said inlet and outlet and operating arms therefor comprising teeth, a slide having means engaging said teeth and a spring urging said slide toward a first position where the inlet valve is closed and the outlet valve is open, said slide being movable into a second position where said inlet valve is open and said outlet valve is closed, a latch engageable with the slide in its second position, a switch positioned to be closed by the slide in its second position, heating means for the tank adapted for being energized by closure of said switch, means responsive to the elapse of a predetermined time after movement of said slide into its second position for withdrawing said latch, a member having a passage therethrough and movable from a first position wherein a cartridge of material that will make a beverage when acted on by hot water can be inserted into said passage into a second position wherein said passage is aligned with said outlet, and means selectively operable for connecting said member and slide so movement of said member into its second position will also move said slide into its second position.

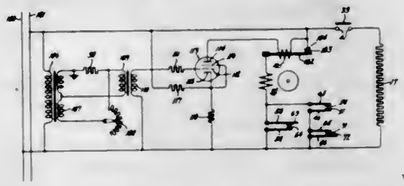
2,615,385
DEVICE FOR BREWING OR INFUSING TEA OR OTHER BEVERAGES
Alexander Smail, Virginia Water, England
Application February 23, 1950, Serial No. 145,717
In Great Britain February 22, 1949
2 Claims. (Cl. 99—305)

1. A device for brewing beverages, such device being adapted for external application to a spout of a vessel capable of holding water to be heated and comprising a casing member having an inlet and an outlet said inlet being adapted to be connected to the spout, a perforated or porous container adapted to be disposed within said casing member intermediate the inlet and outlet and to hold a supply of a substance from which the beverage is to be brewed or infused, a bypass channel arranged within said casing member such channel extending effectively from the inlet to the outlet of the casing member and a baffle plate disposed within the casing member, said baffle plate being adjustably displace-



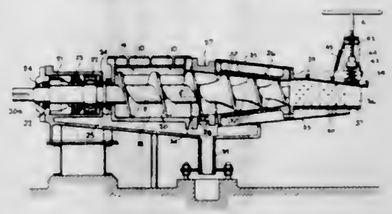
able so that when water is caused to flow from the vessel and through said casing member a preselected proportion may be caused to pass through the substance in the container while the remainder is diverted to the bypass channel, the arrangement being such that the strength of the beverage issuing from the outlet of said casing member will be controlled.

2,615,386
AUTOMATIC ELECTRIC TOASTER
John H. Palmer, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application September 2, 1949, Serial No. 113,826
5 Claims. (Cl. 99—329)



1. In an automatic electric toaster, walls defining a toasting chamber, spaced toaster heater elements in the chamber, guide wires between the heater elements which define a toasting space to hold a bread slice for toasting, a toast rack in said toasting space, a temperature responsive device for terminating toaster operation in response to surface temperature of the toast comprising a non-metallic thermally sensitive resistor, a cup enclosing said resistor except for one exposed face thereof, means thermally and electrically insulating said resistor from said cup, a shoe attached to said cup for covering the exposed face of said resistor, said shoe being of relatively thin thermally conductive material, means mounting said cup within the toasting chamber with said shoe in proximity to said toasting space, an electric motor for moving said toast rack from non-toasting to toasting position, a control circuit for said motor, a thermal relay having contacts in said control circuit and a heating winding, and a temperature sensing circuit in which said thermally sensitive resistor and said heating winding are connected, change in current flow in said sensing circuit effecting operation of said thermal relay.

2,615,387
CONTINUOUS-FLOW PRESS FOR REMOVING MOISTURE FROM MATERIAL SUCH AS BARK, BAGASSE, PEAT MOSS, AND THE LIKE
Hjalmar S. Messing, New York, N. Y., assignor to American Defibrator Inc., New York, N. Y., a corporation of New York
Application February 3, 1949, Serial No. 74,293
3 Claims. (Cl. 100—125)

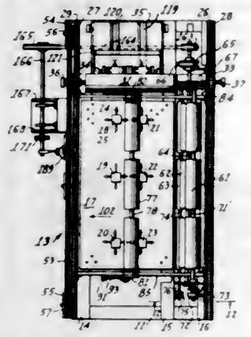


1. A continuous-flow dewatering press comprising a receiving chamber, feeding means therefor, a compression chamber having walls converging toward the outlet end thereof, an intermediate chamber having walls converging forwardly toward said compression chamber and communicating therewith and a rotatable helical compression element extending within said chambers, said compression chamber having a plurality of drainage apertures for removal of water therefrom, said intermediate chamber having a plurality of drainage slots whereby water expressed from material within said compression chamber will flow continuously toward said intermediate chamber and the drainage slots thereof, said compression chamber having a plurality of spaced longitudinal grooves defining retaining surfaces for compressing, compacting and dewatering material urged thereagainst by said rotatable compression element, said compression chamber being formed from a plurality of chamber segments, wear-resistant inserts adjustably engageable between adjacent chamber segments and coextensive with each of said longitudinal grooves, and a discharge chamber communicating with said compression chamber, said discharge chamber having a hinge plate adjustably and resiliently mounted for exerting variable pressure on the material issuing from said compression chamber, said discharge chamber and said hinge plate having a plurality of perforations for removal of residual water from said issuing material.

2,615,388
MACHINE FOR TRANSFER PRINTING ON CIRCULAR OBJECTS
Vincent J. Tenety, Jersey City, N. J.; Helen M. Tenety executrix of said Vincent J. Tenety, deceased
Application December 31, 1949, Serial No. 136,268
16 Claims. (Cl. 101—38)

1. In a machine for transfer printing on objects of roughly circular section concentric with a single axis including a bed plate, means for securing at least one impression plate to said bed plate, and a transfer roller, the improvement of means guiding said transfer roller rectilineally over in rolling contact with and beyond such impression plate, means holding such an object freely rotatable about its axis with said axis parallel to the axis of said transfer roller, a horizontal platform carrying said means holding, horizontal channels carried by said platform,

horizontal rails cooperating therewith fixed to said machine, said channels and rails being oriented in the direction of translation of said transfer roller, and means yieldingly urging said platform and said means holding carried there-



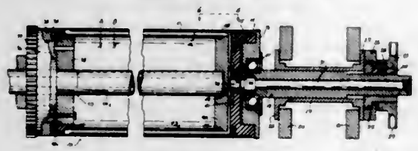
by toward said transfer roller, whereby following initial contact between said object and said transfer roller the two continue in rolling contact and the image is transferred from said transfer roller to said object.

2,615,389

UNIVERSAL PRINTING PROCESS CYLINDER AND METHOD OF MAKING THE SAME

William C. Huebner, New York, N. Y., assignor to The Huebner Company, Dayton, Ohio, a corporation of Ohio

Application August 6, 1948, Serial No. 42,816
21 Claims. (Cl. 101—119)



9. A printing cylinder comprising, a perforate cylindrical shell, elongated strip material wound circumferentially around the outer surface of said shell, the said material having transversely extending longitudinally spaced protuberances and the adjacent convolutions of said wound material being in engagement thereby providing a plurality of elongated relatively narrow openings intermediate each convolution through which liquid may flow from the interior of said shell to the outer surface of the wound material, an imperforate member having a diameter less than that of said shell supported interiorly of the latter substantially coaxially thereof thereby providing an annular liquid chamber intermediate said member and shell, impervious material on the exterior of said wound material identical in configuration with the matter to be reproduced by printing and closing the said elongated openings thereunder, and a porous material disposed upon the said wound material within the spaces between the boundaries of the impervious material corresponding to the non-printing areas, whereby the surfaces of said non-printing areas are moistened by the penetration of liquid from the said annular liquid chamber within said shell through the said elongated openings and the porous material thereover thereby preventing adherence of a printing substance to the surfaces of said non-printing areas.

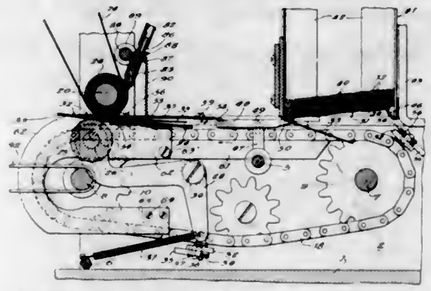
11. The method of constructing a cylinder adapted for use in printing or coating a material comprising the steps of, providing a cylindrical shell, forming a large number of spaced relatively small-dimensioned openings through the cylindrical side wall of the shell, forming a plurality of spaced grooves in the outer surface of said shell with each groove interconnecting certain of the said openings, providing an elongated strip of material having transversely extending longitudinally spaced protuberances therealong, securing one end of said strip to the outer surface of the side wall of said shell adjacent an end of the latter, winding the said strip of material circumferentially about the outer surface of the side wall of said shell with the plane of the said strip of material substantially perpendicular to the surface of the shell and with the protuberances on any one convolution engaging planar portions on the adjacent convolution thereby forming a plurality of elongated relatively narrow passageways for liquid through the wound strip and in communication with the said openings and grooves in the side wall of the shell, securing the other end of the strip of material to said shell adjacent the other end of the latter, and then removing a portion of the outer surface of the wound strip in a manner providing a smooth cylindrical surface.

2,615,390

FEEDING DEVICE FOR SHEET MATERIAL

Ernst C. Sauerman, Chicago, Ill.

Application June 5, 1948, Serial No. 31,338
10 Claims. (Cl. 101—132.5)



1. A machine of the class described comprising laterally spaced means for carrying unit printing elements forwardly in spaced relationship to each other, a pair of opposed pressure rolls rotating about axes disposed transverse to the movement of said carrying means having a nip into which said units are fed, means for rotating said rolls at a predetermined peripheral speed, means for passing a web through the nip of said rolls, said nip being straddled by said laterally spaced carrying means, and means for moving said carrying means at a linear speed greater than the peripheral speed of said rolls to pass said printing elements between said rolls in overlapping relationship with each other and in printing relationship with said web.

2,615,391

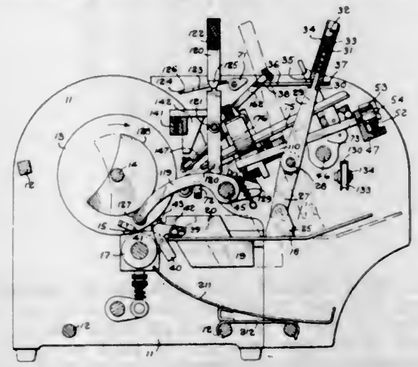
ROTARY DUPLICATING MACHINE WITH MULTIPLE FEED TRAYS

Ronald Max Ford, Sparkbrook, Birmingham, England

Application August 6, 1947, Serial No. 766,797
In Great Britain August 14, 1946
7 Claims. (Cl. 101—132.5)

1. A duplicating machine comprising a frame, a cylinder, a main pressure roller, a main moistener and a main feed tray all for copy sheets

for sheet reproduction, a guide bar parallel to the cylinder, a pair of spaced brackets slidably mounted on the guide bar, means for retaining each of these brackets in various positions along the bar, a secondary feed tray on each of these brackets for copy sheets used for sectional reproduction, a secondary moistener having a moistening strip extending parallel to the guide bar and for the major part of the length of the cylinder, a moistening plate associated with each of the



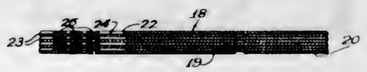
secondary feed trays, each of said moistening plates having absorbent means for engaging the sectional copy sheets fed over the secondary trays, and a liquid transfer member movable with each of the secondary feed trays, said liquid transfer members being constantly in contact with the absorbent means on the moistening plate and being moved into contact with the secondary moistener during the operation of the machine and out of contact therewith when the machine is in the registration position.

2,615,392

SHEET MATERIAL ELEMENT USED IN FEEDING DEVICE

Ernst C. Sauerman, Chicago, Ill.

Original application June 5, 1948, Serial No. 31,338. Divided and this application September 16, 1950, Serial No. 191,071
3 Claims. (Cl. 101—149.4)



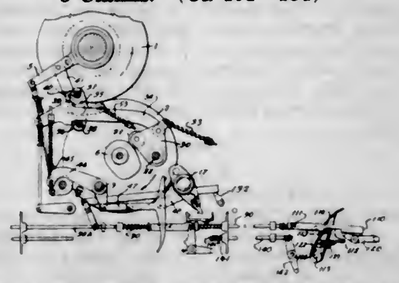
1. A printing unit from which an impression of indicia carried thereby is transferable by pressure contact to a print receiving surface which comprises, sheet material folded intermediate one of its dimensions to form a main panel and a flap, an edge of the main panel extending outwardly beyond an edge of said flap to permit the flap to swing downwardly from the main panel when the panel is substantially horizontally positioned, indicia formed of transferable material carried upon the surface of the flap adjacent said fold, the main panel being provided with an aperture adjacent said fold with the defining edges of said aperture bordering said indicia whereby the indicia is exposed through said aperture, the faces of said indicia extending from the surface of said flap a distance less than the thickness of the main panel whereby units disposed in face-to-face relationship can slide upon each other without smudging the indicia carried on the flap of one of the face-to-face adjacent cards.

2,615,393

SEQUENTIAL TRIPPING MECHANISM CONTROL FOR MULTIUNIT OFFSET PRESSES

Alexander J. Albrecht, West New York, N. J., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York

Application January 27, 1948, Serial No. 4,650
8 Claims. (Cl. 101—184)



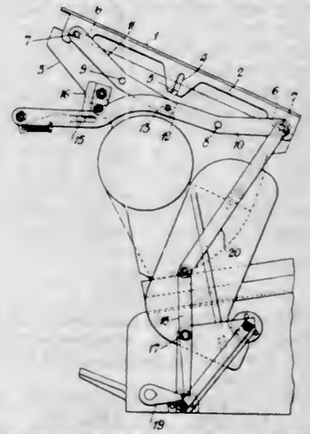
1. In a multicolor offset press having a plurality of printing units for printing in predetermined sequence on a sheet, and each of which comprises plate, blanket and impression cylinders, an ink motion and a unit tripping mechanism for tripping the plate, impression and ink motion off in predetermined order and in timed relation to the rotation of the impression cylinder, and for tripping the plate, impression and ink motion on in the same predetermined order and timed relation, and in combination, a sequential trip control for operating the unit tripping mechanisms of the units in the said predetermined sequence, and further plate trip control means operated by the sequential trip control for tripping on the plate of a unit during a rotation of the impression cylinder preceding the rotation in which the first said unit tripping mechanism is operated by the sequential trip control in the said predetermined sequence to trip on the impression and ink motion.

2,615,394

MOUNTING OF IMPRESSION PLATES ON PLATENS

John Irving Nasmith and Flavius Kingsford Daniels, London, England, assignors to Vickers-Armstrongs Limited, London, England, a British company

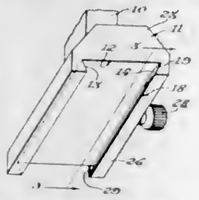
Application January 12, 1949, Serial No. 70,444
In Great Britain January 22, 1948
7 Claims. (Cl. 101—306)



1. In combination with a platen, an impression plate normally secured in a stable position to the

face of the platen, mechanism for supporting and shifting the impression plate from said normal stable position to a second stable position spaced from, and parallel to, the platen and affording access to the surface of the platen, means for actuating said mechanism to shift the impression plate from one stable position to another, means for operating the platen, a linkage mechanism operatively connected to said supporting and shifting mechanism of the impression plate, and means for causing said linkage mechanism to engage said operating means to prevent operation of the platen when the impression plate is in said second stable position spaced from the platen.

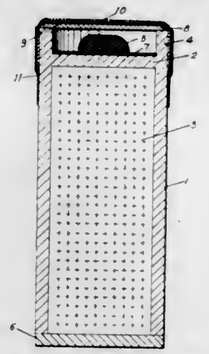
2,615,395
TYPEHOLDER SOCKET
Peter J. Hahn, Sr., Chicago, Ill., assignor to Peter J. Hahn & Sons Company, Chicago, Ill.
Application March 25, 1949, Serial No. 83,440
1 Claim. (Cl. 101—390)



A type holder and socket therefor including a type holder having upwardly and outwardly extending tongue members and a socket including a head portion having a channel on the underside thereof having cooperative engaging groove portions for mating with the tongue members of the type holder, means interposed between the type holder and the socket for effecting a locking of the type holder in the channel, said means including a rigid, non-resilient shim adapted to lie within said channel along one side thereof, said head portion having spaced first and second openings on the side thereof and extending into said channel, the first of said openings being closely positioned one end of the channel and the second of said openings being positioned midway between the ends of the channel, screw fastening means passing loosely through the first of said openings and attached to said shim and adapted to hold the shim in position somewhat loosely with respect to said head portion, screw means threadedly engaging the second of said openings in said head portion and adapted to abut said shim centrally of its length and effect lateral movement of the shim, whereby the shim is tightened against the type holder and thus locking the type holder with the socket head, said shim being tapered at its end portion adjacent its attachment to said screw fastening means at the first opening to permit easy sliding of the type holder within the socket, and said shim at its other end being provided with a laterally and inwardly bent end portion forming a centering abutment of the type holder within the type holder socket.

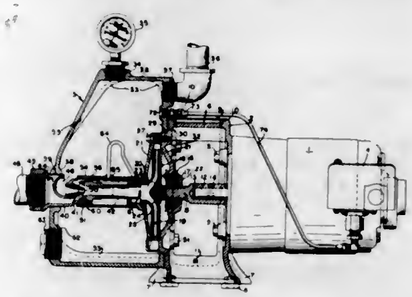
2,615,396
MUNITION
Louis F. Fieser, Belmont, and Emanuel B. Hershberg, Stoughton, Mass., assignors to the United States of America as represented by the Secretary of the Army
Application May 22, 1944, Serial No. 536,799
1 Claim. (Cl. 102—90)

An incendiary fire starter including a flammable nitrate cellulose case provided with a compartment, a charge of gelled hydrocarbon fuel in said compartment, and a matchhead composition, said compartment having a plurality of solid nitrate cellulose wall portions completely enclosing said charge in said compartment in a



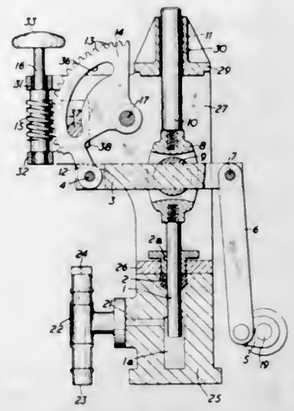
fluid tight manner, said matchhead composition being secured in direct contact with an outer surface of one of said wall portions and at a distance from the interior of said chamber determined by the thickness of the wall portion to which said composition is attached.

2,615,397
PUMPING APPARATUS
William J. Conery, Ashland, Ohio, assignor to The F. E. Meyers & Bro. Co., Ashland, Ohio, a corporation of Ohio
Application April 7, 1949, Serial No. 85,983
5 Claims. (Cl. 103—5)



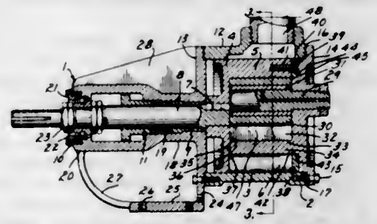
1. A pumping apparatus comprising a pressure pump having inlet and discharge openings, a removable jet pump presented to the inlet opening of the pressure pump, a combined air separator and priming chamber communicating with the discharge opening of the pressure pump and with the jet pump in order to supply substantially air free water to the jet pump, a cylinder surrounding a portion of the jet pump and coaxial with the inlet opening of the pressure pump leaving a space between the cylinder and the jet pump, and means including a conduit fixedly secured to said cylinder for supplying predetermined amounts of air to the space between the cylinder and the jet pump, the size of the inlet opening of the pressure pump being greater than the size of the jet pump in order to leave an annular space through which the introduced air can flow into the pressure pump, and said air-introducing conduit being adapted to remain fixed to said cylinder when the jet pump is being removed from said cylinder.

2,615,398
VARIABLE STROKE PUMP
Giles Philip Eliot Howard, Luton, England
Application June 18, 1948, Serial No. 33,712
In Great Britain May 1, 1947
4 Claims. (Cl. 103—38)



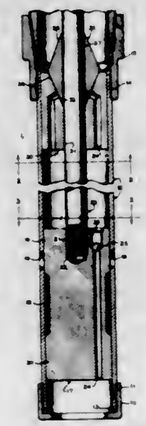
1. A variable stroke pump comprising an element guided to reciprocate in a straight line, and adapted by its reciprocation to effect the pumping, a fixed part, a lever, a pivotal connection connecting said lever to said fixed part, means for oscillating said lever about said pivotal connection, a trunnion rotatably mounted on said element, the said trunnion being formed with a hole therethrough, said lever slidably extending through said trunnion hole, whereby oscillation of said lever effects reciprocation of said element, and means for adjusting said fixed part for sliding said lever longitudinally in said hole, thereby varying the stroke of said element, said adjusting means being operable to bring said pivotal connection into said trunnion hole, thereby adjusting the stroke of said element to zero.

2,615,399
ROTARY PUMP
Milon Gay Edwards, Joplin, Mo., assignor to Peerless Machinery Co., Joplin, Mo., a corporation of Missouri
Application September 9, 1950, Serial No. 183,993
1 Claim. (Cl. 103—126)



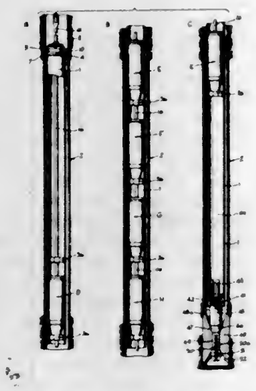
A rotary pump of the character described comprising, a shell having a cylindrical bore and an inlet port and an outlet port communicating with said bore, end plates sealingly secured to the shell and closing the bore at the ends thereof, one of said end plates having a portion extending into the bore concentric thereto and forming an annular recess therewith, a drive shaft rotatably mounted in the other end plate axially of the cylindrical bore, a rotor including a disk portion secured to the shaft adjacent said other end plate and having a plurality of peripherally spaced parallel bars extending from the disk longitudinally of the shell bore and terminating in free ends adjacent said one end plate, said disk and bars having peripheral bearing engagement with the cylindrical bore of the shell, a ring in the annular recess and having bearing engagement with the shell bore and said one end plate, means securing the ring to the free end of each of the rotor bars whereby the ring connects said bars and provides bearing support therefor on said one end plate, a toothed idler member coextensive with the rotor bars, means on said one end plate rotatably mounting the idler member inside of and eccentrically of the rotor whereby the teeth of the idler member mesh with the rotor bars and extend through the spaces therebetween to engage the shell bore between the inlet and outlet ports, and a crescent-shaped member coextensive with the rotor bars and fixed to said extending portion of said one end plate and extending longitudinally of the shell bore between the inner surface of the rotor bars and periphery of the idler teeth and forming a seal therebetween whereby rotation of the drive shaft rotates the rotor and idler member and forcibly delivers liquid from the inlet port to the outlet port.

2,615,400
VALVED PISTON WELL PUMP
Homer B. Fuqua and Roy H. Covert, Tucumcari, N. Mex.
Application May 10, 1949, Serial No. 92,466
5 Claims. (Cl. 103—179)



5. A well cylinder comprising a well casing having one or more apertures adapted to be positioned below the water level in a well; a plunger snugly received by the casing and adapted to reciprocate therein, the plunger having a valved bore permitting flow upwardly through the plunger only; a pump rod attached to the plunger for reciprocating the rod and plunger; a valve seat member in the casing above the plunger and having a first bore to slidably receive the plunger rod, the valve seat member having a valve seat at its upper end, and a plurality of second bores providing communicating channels from beneath the valve seat member to the valve seat; and a single valve member for the valve seat and adapted to cover all of the second bores extending to the valve seat when seated, the valve member having a bore for slidably receiving the pump rod.

2,615,401
FLUID PUMP
Thomas M. Mock, Los Angeles, Calif.
Application June 28, 1947, Serial No. 757,826
4 Claims. (Cl. 103—179)



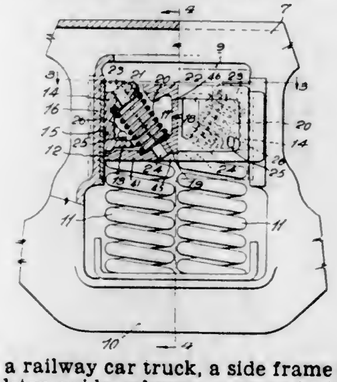
1. In a deep well liquid pump, for pumping sand-laden oil or the like, the combination of a pump barrel with means for admitting liquid to its lower end, a plurality of plungers in the barrel spaced from each other along the barrel, each of said plungers including a tubular shell with means at its lower end to form a port coaxial with the barrel, a pump-rod within the barrel extending through said plungers and through said ports; and valve-means at the lower end of each plunger, including a part carried on the pump-rod having a valve-face, and a part at the under end of each barrel encircling the port to contact with said valve-face and function as a valve seat, to close off flow through the port said valve seats being located so that they are removed from the said ports and out of direct line of flow of the sand-laden liquid that passes up through the ports on the downward movement of the plungers.

2,615,402
CABLE GRIP
Edward T. Chamberlain, Jr., Hanover, N. H.
Application July 11, 1951, Serial No. 236,250
6 Claims. (Cl. 104—202)



1. A cable grip comprising a pair of blocks, a strand having one end portion fixed to one of said blocks and extending slidingly through the other of said blocks and presenting a loop between said blocks adapted to partly enclose and grip a cable when said blocks are in predetermined relation to each other, means engaging said strand on the opposite side of said other block from said loop for exerting a pull thereon to draw said loop about and grip said cable thereby when said blocks are in said predetermined relation, and means for releasably holding said blocks in said predetermined relation.

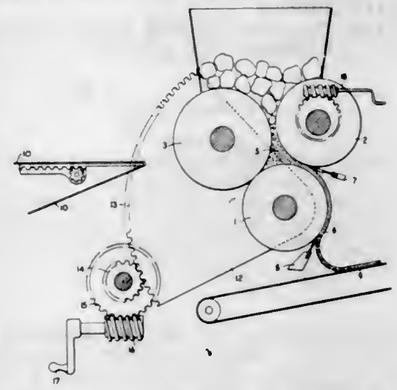
2,615,403
RAILWAY TRUCK WITH DAMPING MEANS
Claude L. Orr and James C. Settles, Columbus, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio
Application May 8, 1945, Serial No. 592,678
27 Claims. (Cl. 105—197)



2. In a railway car truck, a side frame provided with bolster guide columns arranged at opposite sides of a bolster opening, a bolster portion extending into said opening and having oppositely disposed pockets, each pocket confronting one of the guide columns, the bolster portion where it extends into said opening having a top member and a bottom member, one of said members extending transversely of the bolster from one column to the opposite column and the other member being of less transverse width than the other, substantially vertical reinforcing means arranged between said members and forming a back wall for each of the pockets, said pockets having surfaces diverging in a vertical plane, spring means supporting said bolster portion from the side frame, friction wedges arranged in said pockets and frictionally engaging said columns and said diverging surfaces, and other spring means in said bolster portion positioned substantially parallel to said diverging surfaces and yieldingly urging the wedges against said columns.

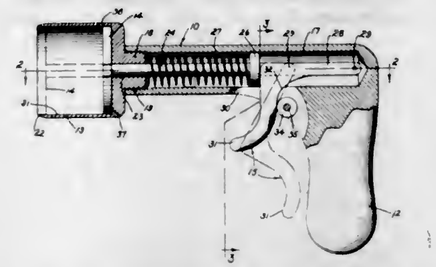
2,615,404
DOUGH MOLDING AND DOUGH SHEETING MATERIAL
Edward Milner Crosland, Culcheth, near Warrington, and Joseph Francis Naylor, Newton-le-Willows, England, assignors to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England
Application February 13, 1948, Serial No. 8,228
In Great Britain October 29, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 29, 1963
1 Claim. (Cl. 107—12)

A machine for manufacturing sheets of dough comprising, in combination, first, second and third rollers mounted on parallel, horizontal axes to enclose a cylindrically sided compression chamber, means to move the axis of said first roller through a circular path having as its center the axis of said second roller from a position in which the rollers are arranged to provide said compression chamber, said chamber having an inlet between said first and third rollers and an outlet between said second and third rollers, to a position in which a horizontal plane tangent to the upper periphery of said first roller lies below a horizontal plane tangent to the upper periphery of the lower of the other two rollers, the peripheries of said first and second rollers being in contact at all times, means to feed a dough sheet horizontally into the bight between said second and third rollers when said first roller is displaced to its lower position, and means to displace said feeding means horizontally from



a position clear of said first roller, when the latter roller is cooperating with the other two rollers to enclose said cylindrically side compression chamber, to a position above said first roller when the latter is in its displaced position.

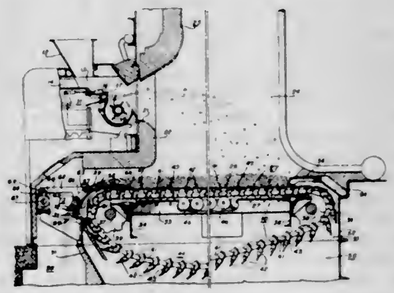
2,615,405
DISPENSING UTENSIL
Austin G. Goodnight, Laton, Calif.
Application August 12, 1949, Serial No. 109,895
6 Claims. (Cl. 107—48)



1. A dipper comprising an elongated body having a substantially cylindrical enlarged head end and an opposite grip end, the head end having a coaxial substantially cylindrical cup formed therein, a plunger mounted in the cup for slideable movement longitudinally thereof, resilient means urging the plunger into retracted position within the cup, an operating lever pivotally connected to the plunger and extended from the body adjacent to the grip for manual operation, said lever having an elongated edge disposed toward the grip, and a roller rotatably mounted on the body intermediate the lever and the grip in engagement with the elongated edge of the lever and providing a rolling fulcrum for the lever.

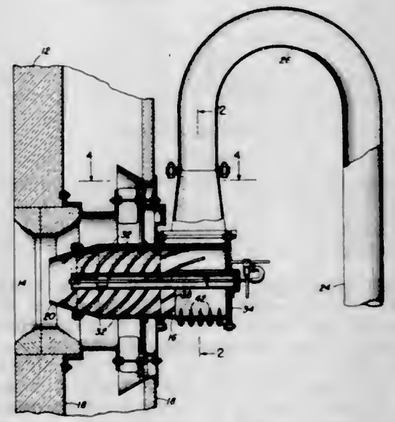
2,615,406
TRAVELING GRATE STOKER
Donald J. Mosshart, Ardmore, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 12, 1949, Serial No. 126,785
1 Claim. (Cl. 110—40)

In a stoker, a traveling grate comprising a pair of transverse spaced parallel shafts, sprockets on said shafts, endless chains on said sprockets, transversely-extending grate bars secured to said chains with the upper run thereof providing a fuel-supporting grate surface, and structural members supporting the upper run of said grate bars for maintaining said fuel-supporting surface flat; wall structure defining a plenum chamber beneath the entire traveling grate, the wall of said plenum chamber at the discharge end of the traveling grate separating the plenum chamber from an ash pit and terminating at its



upper edge in a substantially horizontal surface; and a reciprocal scraper associated with the discharge end of the traveling grate and comprising an ash and refuse-receiving portion resting on the discharge end of the grate fuel-supporting surface for movement of ash thereonto and thereover, and an ash and refuse-discharging portion extending downwardly from the first-mentioned portion and resting on the horizontal surface of said plenum chamber end wall upper edge and having sliding movement on said surface during reciprocation of the scraper.

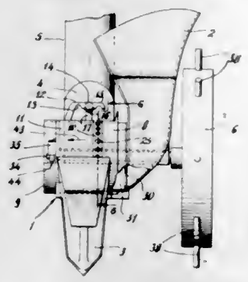
2,615,407
DISTRIBUTOR MEANS FOR PULVERIZED FUEL BURNERS
James J. Ragusan, Brooklyn, N. Y., assignor to Combustion Engineering-Superheater, Inc., New York, N. Y., a corporation of Delaware
Application June 28, 1949, Serial No. 101,756
2 Claims. (Cl. 110—104)



1. In a pulverized fuel burner the combination of a burner nozzle of generally circular cross section and having an inlet end and an open outlet adapted to communicate with a combustion chamber; tangential fuel feed means including

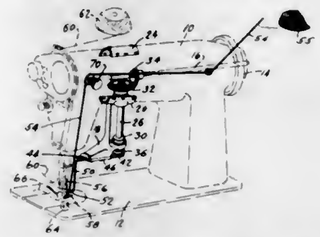
an inlet port in the peripheral wall of said burner nozzle disposed to introduce the fuel suspended in primary air transversely into the nozzle inlet end; said tangential fuel feed means also including a fuel guiding section having an inner volute surface which tangentially adjoins both the peripheral inner surface of said burner nozzle and said tangential fuel feed means; a plurality of individual deflecting vanes disposed in a longitudinal row in spaced relation across the said burner nozzle's inner peripheral surface that tangentially adjoins said tangential fuel feed means; a plurality of helical ribs disposed on the inner surface of said peripheral burner nozzle wall causing said suspended fuel to advance helically in a peripheral layer to the outlet of said burner nozzle, said helical ribs commencing at points located at distances from said longitudinal row of deflecting vanes which progressively increase in a circumferential direction along said burner nozzle's inner peripherical surface, the rib nearest said inlet port in the direction of material flow terminating adjacent the nozzle side of the inlet port and successive ribs about the wall of said nozzle in direction of material flow extending progressively further across said inlet port; each of the aforesaid deflecting vanes being pivoted about a vane axis which is substantially normal to the peripheral inner surface of the aforesaid burner nozzle and each vane having two wings oppositely and radially disposed with respect to said vane axis; and individual adjusting means for positioning said vanes angularly to the direction of pulverized fuel flow therepast through said tangential fuel feed means whereby these deflecting vanes may be set so as to convert an incoming flow of pulverized fuel that is non-uniformly distributed across said peripheral inlet port into a flow beyond the deflecting vanes which is substantially uniform at its point of entrance between the aforesaid helical ribs.

2,615,408
APPARATUS FOR SOWING SEEDS
Gösta Hyltén-Cavallius, Malmo, Sweden
Application September 3, 1949, Serial No. 113,963
In Sweden September 3, 1948
12 Claims. (Cl. 111—78)



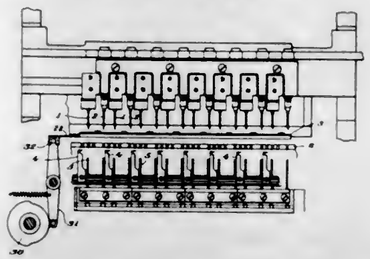
1. An apparatus for sowing seeds having a frame, a seed drum rotatably mounted in the frame and having outlets along its circumference, a housing closely surrounding the drum and having at least one aperture positioned to receive seeds coming from the drum outlets, a sowing chute communicating with the housing aperture, the provision of said housing aperture having a bottom overflow edge, and means for adjusting the overflow edge of the housing aperture to adjust its level relative to the rotational axis of the seed drum at which the housing aperture uncovers the drum outlets as the drum rotates.

2,615,409
ELASTIC THREAD LAYING ATTACHMENT FOR SEWING MACHINES
Raymond S. Nogler, Pasadena, and Stewart D. Menzies, Manhattan Beach, Calif., assignors to Catalina, Inc., Los Angeles, Calif., a corporation of California
Application November 17, 1950, Serial No. 196,195
9 Claims. (Cl. 112—100)



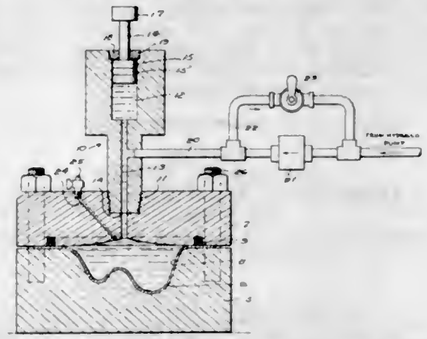
1. An attachment for sewing machines for applying, under tension, a resilient thread-like member to a base fabric comprising a frame work adapted to be fitted onto the housing of a sewing machine, a vertical shaft rotatably fitted into the frame work, a gear drive connection between the said shaft and the main drive shaft of the machine, a cam plate on the lower end of the first named shaft, a slide plate in the framework adapted to be reciprocated by the cam plate and a guide element for the resilient thread-like member on the end of the slide plate.

2,615,410
AUTOMATIC BOOK CUTTING-OFF DEVICE
Winifred A. Larkins, Kingsport, Tenn.
Application June 21, 1948, Serial No. 34,318
1 Claim. (Cl. 112—252)



In a signature stitching machine, the combination which comprises a pressure plate for use on a book signature stitching machine, said pressure plate having a slot with an enlarged needle opening in each end and also at a point midway between the ends, and also having a looper hook opening therein aligned with the needle openings of said slot, an L-shaped movable member having openings with knife edges positioned to register with the enlarged needle openings of the slot slidably mounted on the under surface of the pressure plate, said movable member also having a looper knife at the end of the section thereof in which the openings positioned to register with the needle openings of the slot are positioned, a horizontally movable carrier secured to said L-shaped movable member, said carrier positioned to be actuated by the stitching machine whereby the movable member moves at intervals transversely across the needle path in a plane parallel with the line between the needle opening and hook opening and dwells on one side of the needle path when the signatures of one book are being stitched and then moves over and dwells on the other side of the needle path when the following book signatures are being stitched, whereby at the finish of the stitching of the signatures of each book the needle and looper threads will be looped over said section and looper knife and after the feed of several following signatures will be drawn around said section and looper knife to tighten the stitches and be severed.

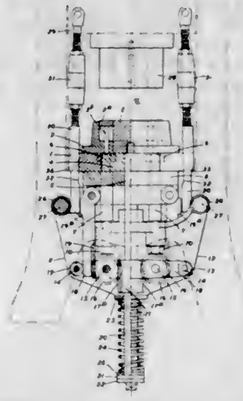
2,615,411
METHOD AND APPARATUS FOR HYDRAULIC WORK HARDENING
Walton S. Clevenger, Joel S. Cohen, and Sanders G. Cohen, Miami, Fla.
Application March 16, 1951, Serial No. 216,046
2 Claims. (Cl. 113—44)



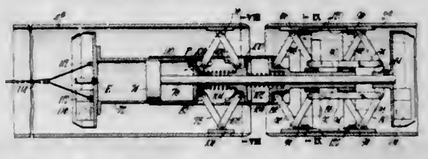
1. A work hardening means for use with a hydraulic die forming device embodying a female die and a pressure plate for clamping a work sheet over an impression formed in the die, an impact device connected with the pressure plate centrally thereof, the impact device and the pressure plate provided with axially aligned ports, the upper end of the impact device being provided with a cylindrical chamber that slidably receives a ram plunger, the chamber communicating with the ports and axially arranged therewith, a rod carried by the plunger and extending above the impact device, a head carried by the rod, a fluid pressure conduit connected with the impact device and communicating with the port for conducting fluid under pressure to the impact device and the die for forcing the work sheet into conforming engagement with the walls of the die impression, the fluid pressure forming the work sheet causing the ram to shift to its maximum outward travel, a check valve in the fluid pressure conduit that maintains a static body of fluid in the die and the impact device after work forming, a by-pass conduit around the check valve, a valve for controlling the by-pass, the ram head after the work has been formed, adapted to receive a plurality of blows to be conducted to the static column of fluid by the ram, the shock of the blows impinging upon the surface of the formed work in the die, and an air relief port for the pressure plate.

2,615,412
PRESS FOR DRAWING SHEET METAL
Charles Joseph Rhodes, Wakefield, England
Application November 12, 1949, Serial No. 126,755
In Great Britain August 5, 1949
1 Claim. (Cl. 113—46)

A press for drawing sheet metal, comprising a bed-plate, a lower die supported on said bed-plate, a ram movable with an up and down stroke away from and towards said lower die, an upper die carried by said ram and co-operating with said lower die, a draw ring movable up and down within said lower die and arranged to be depressed by said upper die during the down stroke of said ram, a pressure plate movable with and supporting said draw ring, a rod movable axially up and down with respect to said bed-plate, a forming block carried by the upper end of said rod and movable within said draw ring, two racks formed on opposite sides of said rod, two corresponding rack members depending from said pressure plate, two pinions supported from said bed-plate, each pinion engaging between a rack on said rod and the corresponding rack member depending from said pressure plate, a return spring arranged to be stressed by upward movement of said rod, a ledge on the outer side of each rack member, a link depending from each side of the ram and swingable inwards into engagement with the corresponding depending rack member, a ledge on the inner side of each link and engageable beneath the corresponding ledge of the corresponding rack member, on swinging the link inwards as aforesaid, said ledges on said links and rack member being bevelled so as to cam said links out of engagement with said rack members, ramps on the outer sides of said links, and rollers supported from said bed-plate and co-operating with said ramps to swing said links into engagement with said rack members at a predetermined point of the down stroke of said ram and to allow said links to be cammed out of engagement at the same point on the up stroke of said ram.



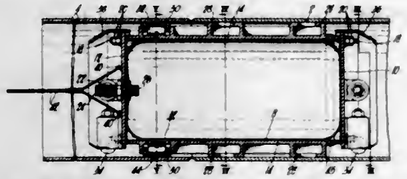
2,615,413
INTERNAL PIPE ALIGNING CLAMP
Orlando P. Adams, McKeesport, Pa., and Raoul G. Mayer, Hendersonville, N. C., assignors to United States Steel Company, a corporation of New Jersey
Application January 28, 1949, Serial No. 73,252
3 Claims. (Cl. 113—103)



1. A pipe holding device for holding a pipe section in alignment with a line pipe comprising a pair of expansible inner pipe holding clamps,

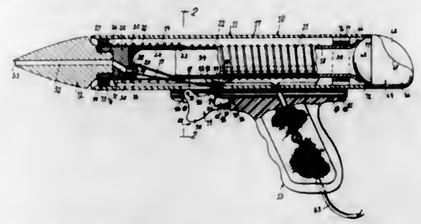
one of said clamps being adapted to fit into the end of said line pipe and the other clamp being slidingly adapted to fit into the adjoining end of said pipe section, a fluid pressure cylinder mounted with its head adjacent said pipe section fitting clamp, a piston having a piston rod projecting therefrom slidingly fitted within said cylinder, said piston rod extending concentrically through said clamps, a pair of spaced drum members fitted slidingly around said piston rod intermediate said clamps, resilient means between said drum members for urging said members away from each other, resilient means intermediate said cylinder head and the drum member adjacent said cylinder head for urging said drum member away from said cylinder head, said second named resilient means being weaker than said first named resilient means, said line pipe fitting clamp consisting of at least one fulcrum body mounted fixedly around said piston rod adjacent its end, a plurality of fulcrum bodies mounted fixedly around the drum member adjacent said first named fulcrum body, a plurality of inner pipe surface contacting shoe members disposed radially around said fulcrum bodies and spaced therefrom by means of pivotally mounted connecting links, said fulcrum bodies being adapted to raise said shoe members into inner pipe wall engagement upon longitudinal movement of said piston rod, said piston being adapted to move longitudinally under fluid pressure applied within said cylinder, said pipe section fitting clamp consisting of at least one fulcrum body affixed to said cylinder head, one fulcrum body affixed to the drum member adjacent said cylinder head and a plurality of inner pipe surface contacting shoe members disposed radially around said fulcrum members and spaced therefrom by means of pivotally mounted connecting links, said fulcrum bodies being adapted to raise said shoe members into inner pipe wall engagement upon longitudinal movement of said cylinder against the resistance of said second named resilient means after said line pipe fitting clamp has been expanded into inner pipe wall engagement, said movement of the cylinder head being operable to compress said first named resilient means and move said clamps toward each other after said clamps have been expanded into pipe engaging position to thereby bring said pipe section into abutting relation with said line pipe, and means affixed to said clamps and extending to beyond the free end of said pipe section for withdrawing said clamps after said pipe section and said line pipe have been joined.

2,615,414
INTERNAL PIPE ALIGNING CLAMP
Orlando P. Adams, McKeesport, Pa., and Raoul G. Mayer, Hendersonville, N. C., assignors to United States Steel Company, a corporation of New Jersey
Application January 28, 1949, Serial No. 73,253
3 Claims. (Cl. 113—103)



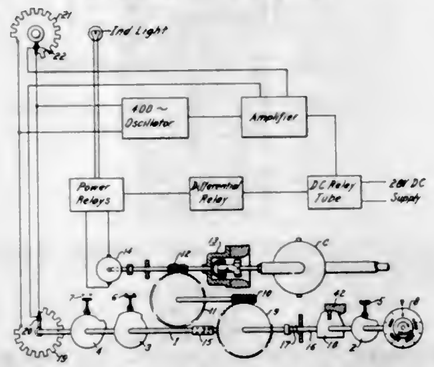
1. An inner clamp for aligning a pipe section with a line pipe, a portion of said clamp being adapted to fit into the end of said line pipe and the remainder being adapted to fit into the adjoining end of said pipe section, said clamp comprising an inflatable bag having an air inlet in one end thereof, a rigid arcuate end plate adjacent each end of said bag, said end plates having spaced apart radial slots in the circumferences thereof, one of said end plates having an air port therethrough in communication with said air inlet, a plurality of inner pipe surface engaging shoe segments extending longitudinally between said end plates with the ends thereof resting in said slots, a resilient shoe on the pipe section fitting portion of each of said shoe segments including a substantially U-shaped cradle, a plate member slidably mounted within said U-shaped cradle, spring means for urging said plate member radially outward of said U-shaped cradle, said inflatable bag being adapted to raise said shoe segments into engagement with the inner walls of said pipe section and of said line pipe when inflated, and at least one elastic band extending circumferentially around said shoe segments for holding said segments in compact relationship when said inflatable bag is deflated and retaining said last named plate member within said U-shaped cradle.

2,615,415
SOLDERING DEVICE
Oscar Wertheim and Norman N. Moss, New York, N. Y.
Application August 19, 1949, Serial No. 111,124
6 Claims. (Cl. 113—109)



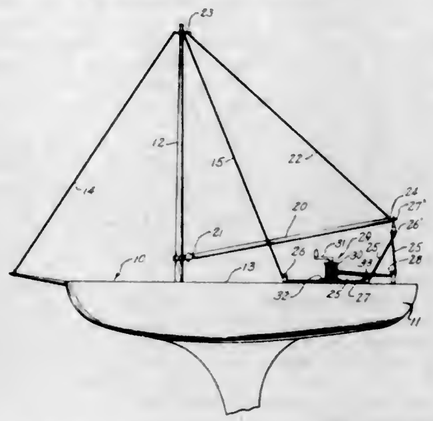
1. In a soldering device having a tubular reservoir with heating means associated therewith, and an operating tip member outside of said reservoir and secured to the bottom end thereof, the combination of, a portion of the inner end of said tip member being at one side of the bottom of the reservoir and being accessible, a truncated conical valve seat in said portion, the wider end of said seat being open, a first channel connecting an opening in the side of the valve seat with the reservoir, a second channel connecting an opening in the bottom of the valve seat with the lower end of the operating tip member, a hollow truncated conical valve tightly but rotatably fitting into said valve seat, an opening in the bottom of said valve communicating with said second channel, an opening in the side of said truncated hollow valve communicating with said first channel whereby when said opening in the side of the valve is placed into registering relation with the said first channel soldering material may flow from the reservoir through the valve to the operating tip of the device, a shaft carrying said valve and projecting upwardly generally along said tubular reservoir and outside thereof, spring means acting on said shaft and normally turning the same and the valve into a closing position preventing a flow of the solder, and means also associated with the reservoir whereby said shaft may be turned manually against said spring action and said valve placed into an open position to permit the flow of the solder, when desired.

2,615,416
VARIABLE ENABLER FOR ACOUSTIC TORPEDOES
Thomas A. Daly and Harry A. Gill, Sharon, Pa., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 21, 1946, Serial No. 711,418
8 Claims. (Cl. 114—23)



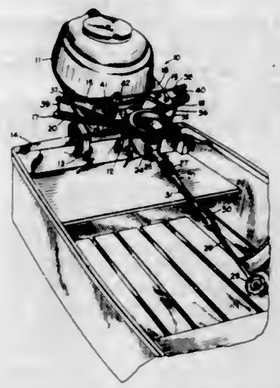
1. In a control device for torpedoes having a rotatable propelling mechanism, the combination of an electric switch, a cam movable to and from a position operating said switch, gearing for moving said cam, shaft means for driving said gearing, means for driving said shaft means to operate said gearing and move said cam to a predetermined position, and a centrifugal clutch responsive to rotation of said propelling mechanism for connecting said shaft means to the torpedo propelling mechanism.

2,615,417
COMBINATION BACKSTAY AND SHEET FOR SAILING VESSELS
Horace M. Dobbins, Charleston, S. C.
Application June 16, 1949, Serial No. 99,520
2 Claims. (Cl. 114—102)



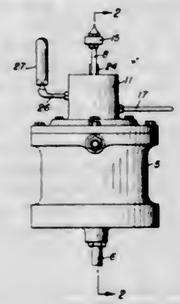
1. In a sailing vessel having a mast, a pair of stays directed from the top of the mast to points on the deck at opposite sides of the vessel, a boom, means pivotally attaching the inner end of the boom to the mast, the free end of said boom terminating adjacent one end of the vessel, a sheet integral with each stay and disposed upon respective sides of the center line of the vessel, pulleys mounted on the deck and pulleys suspended from the free end of the boom for guiding the combined stays and sheets, a rotatable drum mounted on the deck, the free ends of both sheets being fastened to and coiled on the drum in one direction.

2,615,418
REMOTE-CONTROL DEVICE FOR OUTBOARD MOTORS
Joseph W. Aspenleiter, Caledonia, N. Y.
Application January 19, 1951, Serial No. 206,897
3 Claims. (Cl. 115—18)



1. In an outboard motor having a housing, means for mounting the housing on a boat for movement for steering about a vertical axis and a movable throttle for controlling the motor, the combination of a bracket, a pair of arms respectively connecting the sides of the bracket to the adjacent sides of the housing, said arms having slots, a handle carried by the bracket and adapted to project towards the front of the boat whereby the housing may be turned about said axis for steering the boat, said arms being connected to the housing by bolts passing through slots in the arms whereby the bracket may be adjusted so as to selectively position the handle relative to the longitudinal axis of the boat.

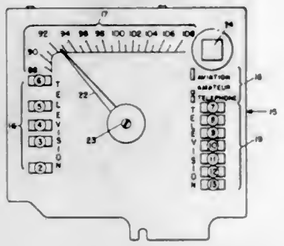
2,615,419
LOW-PRESSURE ALARM FOR LUBRICATING SYSTEMS
Eugene Topping, Brooklyn, N. Y.
Application November 27, 1950, Serial No. 197,716
5 Claims. (Cl. 116—70)



1. A low pressure alarm for lubricating systems comprising a cylinder having a piston working therein and held in one position by fluid pressure, spring means moving the piston in an opposite direction upon a predetermined decrease in pres-

sure in the system, a whistle having a fluid pressure line connected thereto, a longitudinally slidable valve closing the fluid pressure line and disposed coaxial with the piston, and operating means for the valve and connected to the piston for opening the valve, said operating means comprising a pair of parallel rods slidably carried by the cylinder alongside of said valve, said rods including inner ends attached to the piston and outer ends projecting from the cylinder, and a crossbar attached to the outer ends of the rods and overlying the valve.

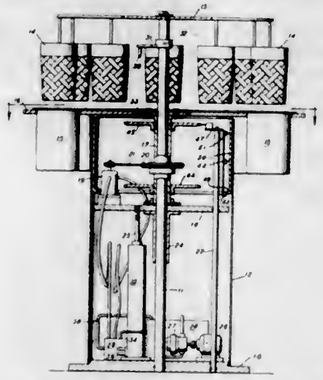
2,615,420
TELEVISION TUNING INDICATOR
David Felt, Teaneck, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Clifton, N. J., a corporation of Delaware
Application June 17, 1950, Serial No. 168,808
13 Claims. (Cl. 116—124.4)



1. A radio and television tuning indicating assembly comprising a driving member linearly coupled to actuate a tuning device, a driven member coupled to be actuated by said driving member and linearly coupled to actuate an indicator, a movable platform having one point thereof mounted in fixed relationship to said driving member, an idler pulley attached to said platform, a flexible transmission member linking said driving and driven members and said pulley, and a non-linear coupling between said platform and said driving member whereby said platform is rotated about said fixed point thereof in predetermined accordance with the position of said driving member and said indicator is caused to indicate in a predetermined non-linear relationship with respect to said tuning device.

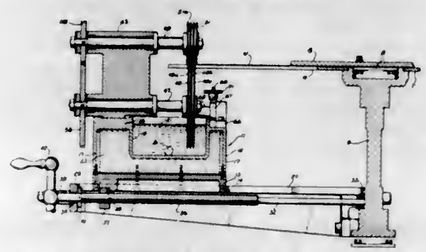
2,615,421
MACHINE FOR AUTOMATICALLY TIMING THE IMMERSION OF AN ARTICLE INTO A SERIES OF LIQUIDS
George F. Davis, Middleville, and Ernest J. Ayars, Grand Rapids, Mich.
Application May 18, 1950, Serial No. 162,796
9 Claims. (Cl. 118—7)

1. An immersion processing machine comprising: container-support means mounted for rotation in a substantially horizontal plane; positioning means for establishing the position of said container-support means in a vertical direction, said positioning means including a hydraulic jack; indexing means for angularly advancing said container-support means about its axis, said indexing means including hydraulic actuating means; hydraulic pressure-generating means; valve means disposed to control the flow of liquid to and from said pressure-generating means, jack and actuating means; sequence-determining means adapted to operate said valve means according to a particular cycle of operation; and material support means disposed to position said material for immersion in con-



tainers positioned by said indexing and container-support means.

2,615,422
GLUING DEVICE
Raymond E. Ackley, Evanston, Ill., assignor to W. F. Hall Printing Company, Chicago, Ill., a corporation of Illinois
Application August 1, 1950, Serial No. 177,073
7 Claims. (Cl. 118—221)

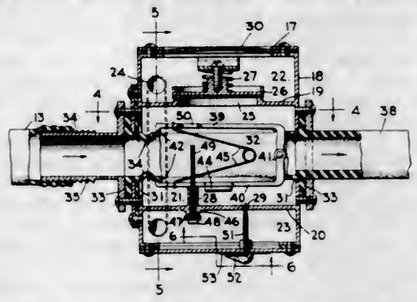


1. In a gluing device, a glue pot having top, bottom and side walls defining a central chamber adapted to hold a supply of water, a trough depending from said top wall and into the interior of said chamber, a gluing roll journaled on said glue pot and having its lower portion disposed within said trough, a backing roll journaled on said glue pot to coact with said gluing roll in applying adhesive to sheet material, said gluing roll embodying a plurality of narrow annular glue applying surfaces arranged in closely spaced relation along a common axis to thus provide a more effective sealing engagement than is provided by the use of a single relatively wide roll, said backing roll embodying a plurality of narrow annular surfaces arranged in closely spaced relation along a common axis, the glue applying surfaces on said gluing roll being disposed in staggered relation with respect to the annular surfaces formed on the backing roll, the spacing between the annular peripheral surfaces of each of said rolls being slightly greater than the width of the individual annular surfaces to prevent transfer of adhesive from the gluing roll to the backing roll.

2,615,423
CONTROL UNIT FOR MILKING MACHINES
Albert G. Perkins, Grand Island, N. Y.
Application November 17, 1950, Serial No. 196,221
12 Claims. (Cl. 119—14.08)

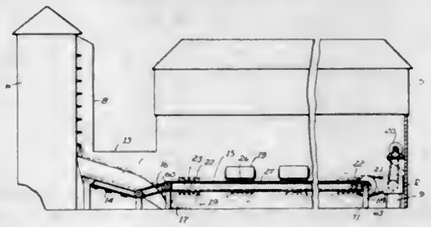
1. A control device of the character described, comprising a body having a fluid filled control

chamber and a reservoir in valved communication therewith, a flexible contractible tube section extending through said chamber in fluid-sealed relation thereto and adapted for connection to a conduit for conducting liquid by vacuum from a source of supply to a receiving container,



means in substantially embracing relation to said tube section to move and contract therewith, and valve means adjustable to one or another of a plurality of positions for controlling the flow of fluid from the reservoir into the control chamber and governing the time-contraction of the tube section to its closed sealed position.

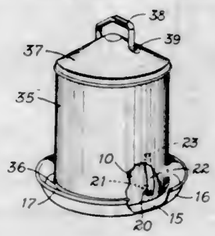
2,615,424
CATTLE FEED CONVEYING AND DISPENSING APPARATUS
Joseph G. Spickler, Rockford, Ill., assignor of four-fifths to Taylor E. Decker, Rockford, Ill.
Application November 7, 1946, Serial No. 708,228
25 Claims. (Cl. 119—51)



1. The combination with two spaced rows of stalls, of an elongated frame extending lengthwise of the space between the rows, an endless conveyor on said frame, buckets spaced lengthwise of and carried on said conveyor, supports for said buckets pivoted relative to the conveyor whereby said buckets are adapted to face toward either row of stalls, said supports having the buckets hinged thereto to dump their contents into said stalls, power means for operating said conveyor, means on the frame relative to which the conveyor is movable arranged to engage parts fixed relative to said supports to turn the buckets on the pivots, means for raising the buckets on their hinges relative to their supports to dump the contents, and means for delivering feed to the buckets.

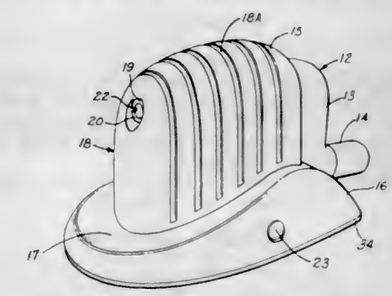
2,615,425
DOUBLE WALLED FOUNTAIN
Jack R. Berry, Springfield, Ohio, assignor to The Buckeye Incubator Company, Springfield, Ohio, a corporation of Delaware
Application April 17, 1950, Serial No. 156,278
3 Claims. (Cl. 119—77)

1. A double walled fountain comprising an inner upright container having an open top and a closed bottom, a pan shaped portion extending outwardly of and substantially in the same plane with the bottom of said container, said pan shaped portion having an upwardly extending rim, a normally closed valve in the lower part of said container below said rim and having a part extending outwardly of the wall of said container, a handle adjacent the top of said inner container, an outer inverted cover open only at its bottom receivable in enclosing relation over said inner container and movable to an assembled position



against a portion thereof in which position the lower edge of said cover is located above the bottom of said pan and below said rim with a portion of said outer cover in position to engage said valve to effect the opening thereof, and locking means carried on said cover member having interlocking engagement with said handle on said inner container upon relative twisting of said cover with respect to said inner container to releasably lock said outer cover in said assembled position thereon.

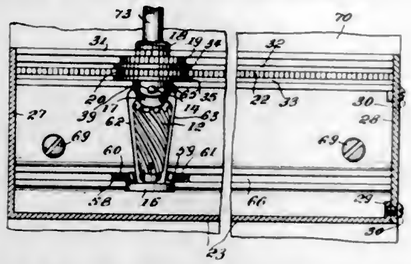
2,615,426
PENCIL SHARPENER
Gilbert N. Fryer, Arcadia, Calif.
Application June 5, 1950, Serial No. 166,150
3 Claims. (Cl. 120—96)



1. In a pencil sharpener including a cutter in which the end of a pencil to be sharpened is inserted and means for rotating the cutter, the combination which comprises a base adapted to rest on a level surface and supporting the cutter so that a pencil therein will be in an approximately level position, a cover disposed around the cutter and supported by the base independently of the cutter and having an aperture in one end through which a pencil is inserted into the cutter, the base extending substantially beyond the apertured end of the cover to provide a rest for a hand holding the pencil to be sharpened, at least one pin journalled through the base and adapted to project into an aligned hole in the cover, the pin having a pair of longitudinally spaced annular grooves, and a leaf spring mounted to the base and positioned to releasably engage in said grooves so as to position the pin to project into said cover when engaged in one

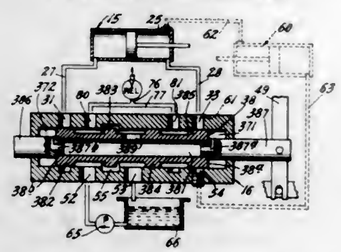
of said grooves and to position the pin disengaged from the cover when engaged in the other of said grooves.

2,615,427
PENCIL ACTUATED PENCIL SHARPENER
William R. Lehmann, Atlanta, Ga.
Application February 6, 1951, Serial No. 209,620
3 Claims. (Cl. 120—96)



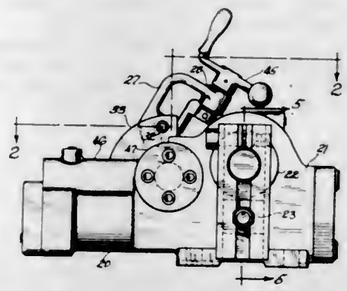
3. In a pencil actuated pencil sharpener, the combination which comprises an elongated casing substantially rectangular shaped in cross section and having an open slot in the upper end, said casing having gear racks in both sides of the slot and positioned in the upper end, pencil sharpening elements slidably mounted in the casing, gears on said sliding elements meshing with the gear racks, latches in the gears for rotating the sharpening elements in one direction with said elements traveling in both directions of the casing, a plate slidably mounted in the lower part of the casing, means journaling the lower ends of the sharpening elements in the said plate, and means rotating cutting elements in the sharpening elements as the sharpening elements are rotated, said sharpening elements having pencil receiving openings therein.

2,615,428
HYDRAULIC MOTOR AND VALVE ASSEMBLY
Clinton E. Deardorff, San Fernando, and Alvin A. Meddock, North Hollywood, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 2, 1948, Serial No. 5,798
7 Claims. (Cl. 121—38)



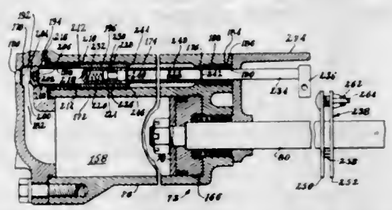
1. Hydraulic apparatus comprising: a motor cylinder unit defining a motor cylinder and having an exterior face and spaced motor ports in said face connected by passages in said unit to opposite ends of said motor cylinder; a valve unit having an exterior face seating against said cylinder face and having motor ports registering with said motor ports in said cylinder unit face; means for detachably securing said units to each other with their seating faces in engagement; said valve unit defining a valve cylinder intersected by said motor ports and also defining main pressure and exhaust ports intersecting said valve cylinder; one of said jack ports in said valve unit extending through said valve cylinder and terminating in an auxiliary external port, and said motor cylinder unit having an auxiliary external port in the same end as said one motor port; said one motor port in one of said units having a counterbore extending into that unit from the face thereof, a resilient sealing ring in said counterbore for sealing between said faces about said one motor port, and a disc of thickness approximating the depth of said counterbore and diameter less than said counterbore and greater than said port positioned in said counterbore within said sealing ring for blocking said one motor port; whereby an auxiliary motor can be connected in series with said motor cylinder for actuation in synchronism therewith by connecting the auxiliary motor between said two auxiliary ports, and said motor can be directly connected to said valve unit by removing said disc and plugging said auxiliary port.

2,615,429
MANUAL DRIVE FOR HYDRAULIC SERVOMOTORS
Stanley A. Jacques, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application November 27, 1950, Serial No. 197,796
2 Claims. (Cl. 121—38)



1. A hydraulic piston and cylinder assembly including structure enclosing a cylinder and mounting an output shaft that is rotatable by axial movement of a piston in said cylinder, said housing structure enclosing also a cylindrical valve chamber disposed with its axis parallel to the axis of rotation of said output shaft, and a pair of passages each having an input reach opening outwardly through said structure for connection to one of a pair of supply lines, said passages having output reaches communicating with opposite ends of said cylinder, and each of said reaches entering said valve chamber through a port that is spaced from each other port, a valve body rotatable in said chamber between a first position wherein a pair of passageways provided by said body respectively interconnect the input and output reaches of the respective passages and a second position wherein a passageway provided by said body interconnects said output reaches and blocks them from said input reaches, a worm gear secured to said output shaft, a support arm secured to said valve body in radially projecting relation thereto, a worm mounted on said support arm and movable therewith into engagement with said worm gear by swinging of the support arm to move said valve body to its said second position and movable out of engagement with said gear when the support arm is swung to move said valve body to its first said position, and means for rotating said worm.

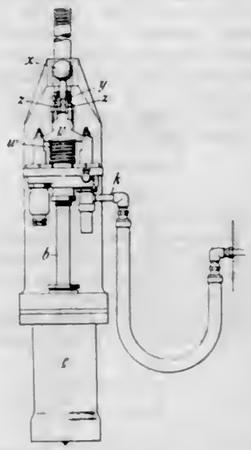
2,615,430
VARIABLE POSITION CONTROL FOR HYDRAULIC SERVOMOTORS
Edward H. Fletcher, Cedar Falls, and Paul L. Hanson and Takuro Nakae, Waterloo, Iowa, assignors to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa
Application May 19, 1951, Serial No. 227,246
7 Claims. (Cl. 121—38)



1. In a fluid-pressure control system having a first motor member formed with a chamber and a passage including a port through which fluid may flow incident to movement of a second motor member within the chamber: valve means for controlling the flow of fluid out of the chamber for sequentially permitting, next restricting and finally stopping such flow, comprising: a first valve movable back and forth through a relatively short distance between a port-opening and a port-closing position, said first valve being elongated along its path of movement and having an elongated hollow interior, said first valve further having a port-proximate end including an outer seat formed with restrictive passage means and with an inner seat; first means biasing the first valve to its port-opening position; a second valve carried within the interior of the first valve for movement through a relatively longer distance between an open position and a closed position, said second valve having at one end thereof a closure element cooperative with the aforesaid inner seat to close the restrictive passage means in the first valve; a control member extending loosely lengthwise into the first valve and arranged to reflect movement of the second motor member in the direction that results in fluid flow out through the port; second means acting against the first valve and the control member and normally biasing the control member in the opposite direction; lost-motion means acting between the control member and the second valve for normally holding the second valve in its open position; said second biasing means serving also as yielding force-transmitting means between the control member and the first valve to move the first valve to its port-restricting position upon initial movement of the control member in the aforesaid direction to a predetermined position, said second biasing means being yieldable to accommodate overtravel of the control member beyond said predetermined position; and said lost-motion means including a force-transmitting connection between the control member and second valve to effect closing of the second valve upon overtravel of the control member.

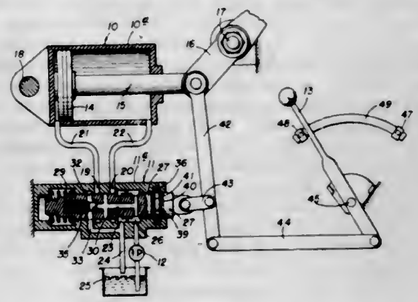
2,615,431
SERVO MECHANISM
John Foster, Manchester, England, assignor to B. & S. Massey Limited, Manchester, England, a British company
Application January 26, 1949, Serial No. 72,936
In Great Britain February 5, 1948
4 Claims. (Cl. 121—41)

1. Fluid pressure servo control mechanism comprising a piston connected by its stem to the part to be actuated, a cylinder containing said piston, a spring in said cylinder loading said piston in one direction, a valve fitting secured to said stem, inlet and exhaust valves in said fitting for supplying fluid to and exhausting it from said cylinder, diaphragms associated with the inlet and the exhaust valves, a spring loading each diaphragm at one side, the other side being open to the pressure in the cylinder, means slidable



upon said stem to regulate simultaneously the spring loading of said valves and so in part the pressures at which they open and shut, and a handle fulcrumed upon said stem for moving said means, so that the opening and closing respectively of the valves is controlled by the conjoint movements of the control handle and the piston stem, and by the pressure on the diaphragms.

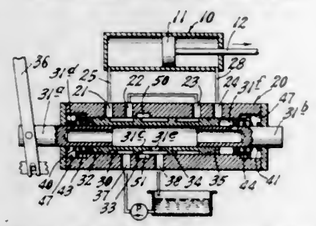
2,615,432
HYDRAULIC CONTROL SYSTEM WITH AUTOMATIC STOP
Alvin A. Meddock, Van Nuys, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 27, 1950, Serial No. 152,168
4 Claims. (Cl. 121—41)



1. A hydraulic control system comprising: a hydraulic motor having a driven element movable in response to flow of fluid to said motor; means including a valve for supplying operating fluid to said motor, said valve having a movable element having a neutral position and an open position; a control handle element freely movable through a range and a stop for stopping it at one end of said range; coupling means differentially coupling said three elements together whereby motion of any element applies forces to the other

elements to move that one of the other two elements offering the least resistance to motion, said coupling means coupling said three elements in such sense that motion of the motor element resulting from said open position of the valve element urges the valve element toward neutral position and the handle element toward said stop; yieldable retaining means offering greater resistance to motion of said valve element out of open position than the resistance of said handle element during movement of the handle element by said motor element through said range, whereby movement of said motor element in response to open position of said valve first moves said handle element until it is stopped by said stop, and thereafter moves said valve element out of open position to stop said motor.

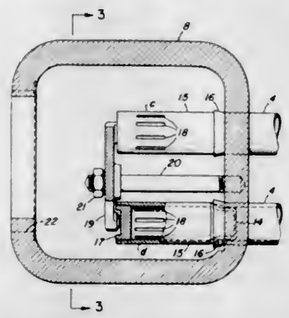
2,615,433
HYDRAULIC CONTROL UNIT
Clinton E. Deardorff, San Fernando, and Alvin A. Meddock, North Hollywood, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 17, 1948, Serial No. 44,606
10 Claims. (Cl. 121—46.5)



1. A control valve for controlling flow of fluid to and from a hydraulic motor, said valve comprising: a valve cylinder and piston; means defining an exhaust passage connected to one end of said cylinder, and means defining a pressure port and motor ports intermediate the ends of said cylinder; said piston having lands for selectively controlling flow of fluid from said pressure port through said motor ports and through said one end of said cylinder to said exhaust passage; said piston lands, pressure port and motor ports being so positioned that movement of the piston away from said one end of the cylinder permits fluid flow through said motor ports to said cylinder end; auxiliary piston valve means in said cylinder interposed between said end of said cylinder and the adjacent end of said piston; a spring means interposed between said auxiliary piston means and said one end of said cylinder; said exhaust passage connecting with the cylinder through a port normally covered by said auxiliary piston valve means and adapted to be uncovered by movement of the auxiliary piston valve means in response to the pressure of the exhaust fluid flowing from one of said motor ports to said last mentioned port, said pressure acting against said spring.

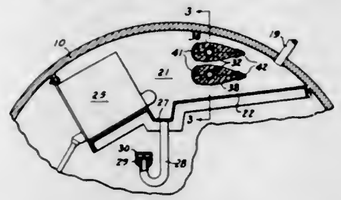
2,615,434
HEADER AND TUBES OF A FORCED CIRCULATION STEAM GENERATOR
Ward S. Patterson, Chappaqua, and Ernest C. Witzke, Bayside, N. Y., assignors to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application July 21, 1948, Serial No. 39,966
5 Claims. (Cl. 122—360)

5. In a controlled forced circulation steam generator, an inlet header, means to supply water under pressure to the header; a plurality of steam generating tubes having their inlet ends connected to the header and including groups of three tubes each group of whose entrance locations are arranged in the pattern of a triangle; means forming a flow-restricting orifice mounted at the entrance end of each tube; a common yoke for retaining three of said orifices in respective engagement with the ends of the aforesaid three tubes which are included in said triangular grouping; a single member supported from the



header wall at a point within the triangular pattern of said grouping in the vicinity of the center of gravity of its enclosed area for maintaining said yoke in the orifice retaining position; and means forming in the header opposite said groups of orifices a handhole which is adapted to receive a handhole closure, said handhole being constructed and arranged to permit access to and removal both of said yoke and of each of said three grouped orifices out of the header.

2,615,435
CONTROL OF STEAM TEMPERATURE
John D. Kuppenheimer, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application January 18, 1950, Serial No. 139,167
6 Claims. (Cl. 122—479)



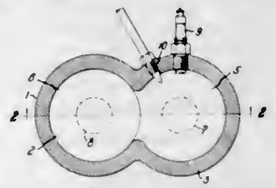
1. In combination with an elongated cylindrical drum having a longitudinal row of steam outlets therein and a passage for the flow of steam in a direction substantially perpendicular to the longitudinal axis of the drum to the outlets, a superheater connected to the outlets to receive steam therefrom, a pipe located within the passage and extending lengthwise of the drum, the pipe having orifices therein, a body of porous material enclosing the pipe and shaped as an airfoil so that the pressure of the steam flowing over the surfaces of the body will be slightly reduced, means to supply water to the pipe for discharge from the orifices thereof into the porous material and evaporation by the steam, and means to increase the rate of water supply as the temperature of the steam leaving the superheater increases and vice versa.

2,615,436
PLANETARY TYPE ENGINE
Walter S. Pawl, Hyattsville, Md.
Application November 15, 1950, Serial No. 195,892
8 Claims. (Cl. 123—8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



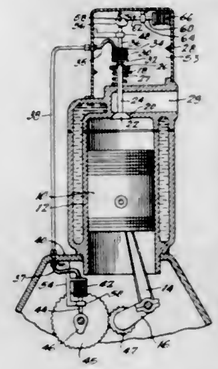
1. A planetary type engine comprising two relatively rotatable helical members, one within the other, having coplanar axes and cooperating to form a series of axially overlapping closed chambers therebetween, reduced in volume near the middle of the engine, the inner member having a helix pitch half as great as that of the outer member along any increments of the axes correspondingly spaced axially of the engine, the cross-sections of the members correspondingly spaced axially of the engine being circular for the inner member of a diameter equal to the width of the space in the outer member which is bounded by semicircular ends of the same radius as the circular section centered at points spaced from the axis of the outer element a distance equal to the helix diameter of the inner member, whereby a relatively planetary motion is obtained by the said members during operation, and the chambers are progressively moved from one end of the engine to the other while changing their volume correspondingly.

2,615,437
METHOD OF OPERATING INTERNAL-COMBUSTION ENGINES
Neil O. Broderson, Rochester, N. Y.
Application May 13, 1942, Serial No. 442,830
6 Claims. (Cl. 123—32)



1. The method of operating a four-cycle internal combustion engine which comprises admitting constant charges of air to the combustion space of the engine including a main combustion chamber and an auxiliary combustion chamber communicating with the main combustion chamber through a restricted passage and having a volume not substantially exceeding the volume of the main combustion chamber at top center position of the piston, compressing the air within the combustion chambers, supplying to the combustion chambers controlled charges of fuel varied in amount in relation to the power demand upon the engine, injecting into the auxiliary combustion chamber during the compression stroke of the piston controlled portions of said charges of fuel varied in amount in predetermined relation to the total quantity of fuel supplied to effect a controlled stratification of the fuel between the auxiliary combustion chamber and the main combustion chamber and to provide in the auxiliary combustion chamber at the time of ignition an ignitable fuel mixture under all conditions of power demand irrespective of variation in composition of the fuel-air mixture obtained in the main combustion chamber, and igniting the mixture under compression in the auxiliary combustion chamber.

2,615,438
HYDRAULIC MECHANISM FOR ACTUATING VALVES
Preston T. Tucker, Ypsilanti, Mich.
Application August 4, 1948, Serial No. 42,477
5 Claims. (Cl. 123—90)

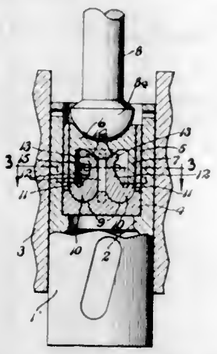


1. A mechanism for actuating a valve in accord with the rotations of a cam, said mechanism comprising means defining a first fluid chamber of variable size and including a cam follower positioned for operative engagement with said cam and operable to control the size of said first chamber, elements defining a second fluid chamber of variable size and in fluid communication with said first chamber and operable to move said valve in accord with the size of said second chamber, a fluid in said chambers having volume variable in accord with temperature to actuate said valve in accord with rotations of said cam, a movable member to limit movement of one of said chambers, and temperature responsive means operable to move said member thereby to vary the effective size of the chambers.

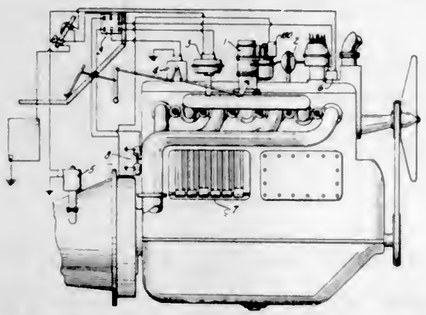
2,615,439
CUSHIONING AND SILENCING MECHANICAL TAPPET
John W. Humphreys, Muskegon, Mich., assignor to Johnson Products, Inc., Muskegon, Mich., a corporation of Michigan
Application November 28, 1949, Serial No. 129,796
5 Claims. (Cl. 123—90)

1. A tappet comprising, a hollow body adapted to be mounted for reciprocation said body having a closed end and an open end, a supporting member located transversely of the body between its ends and at the side thereof toward the open end of the body having a plurality of arcuate guides extending radially outward from the center of said supporting member, vertical adjusting members, one seated in each guide and extending away therefrom adapted to rock in said guides to move away from or toward each other, each of said adjusting members having an outwardly extending lower portion, yielding means normally drawing them toward each other, and a piston having a head and a depending skirt mounted for movement in the direction of the length of said body having the lower end of the

skirt resting upon said outwardly extending lower portions of said adjusting members, the head of said piston at its inner side having a depending centrally disposed cam projecting between the adjacent ends of said adjusting members, the rocking of said adjusting members toward each other under influence of said yielding means moving the piston outward, and said members moving away from each other under pressure and vibrating forces applied to the outer side of the piston head and transmitted therefrom to said adjusting members, thereby separating said adjusting members and permitting the piston to move inwardly.

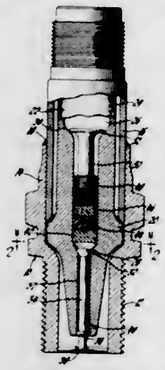


2,615,440
CARBURETOR
Albert H. Winkler, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 30, 1947, Serial No. 794,560
15 Claims. (Cl. 123—127)



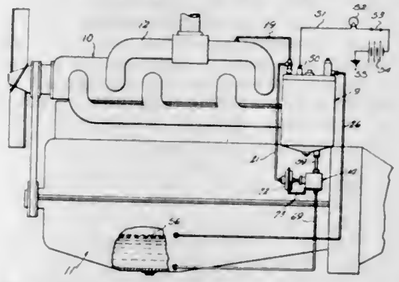
1. A carburetor for a split engine comprising an induction passage, a throttle in said induction passage, a means for manually actuating said throttle, a main fuel discharge jet, a fuel bowl, a fuel conduit connecting said discharge jet with said fuel bowl, a main fuel metering orifice in said conduit and an auxiliary fuel metering orifice connecting said fuel bowl with said conduit posterior to said main metering orifice, a valve for controlling said auxiliary orifice, a power enrichment orifice connecting said fuel bowl with said conduit posterior to said main metering orifice, a fuel valve for controlling said power enrichment orifice, a vacuum controlled member for opening said power enrichment valve, an accelerating pump being yieldably connected to the throttle actuating means, a passageway for transmitting manifold vacuum to a spark advance mechanism, a duct for bleeding air into said passageway to lessen the effect of said vacuum on said mechanism, a valve for controlling said duct, and an electrically actuated means so constructed and arranged as to open said auxiliary and duct valves for standard engine operation and to close said valves, prevent actuation of said vacuum controlled member of the power enrichment valve and limit the stroke of said accelerating pump for split engine operation.

2,615,441
SPARK PLUG ELECTRODE
Wilfred A. Bychinsky, Ann Arbor, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 7, 1949, Serial No. 97,645
4 Claims. (Cl. 123—169)



4. In a spark plug, the combination of a spark plug insulator having a central bore including an upper enlarged portion connected with a lower portion by a conical seat, an electrode having a partially conical head engaging the seat, said head having oppositely disposed flat surfaces inwardly spaced from said conical seat to provide communication between said upper and lower portions and a shank of less diameter than the bore extending downwardly therefrom, said shank being provided at the lower end of the bore with an enlarged portion filling the bore end with an extension serving as a center electrode, the space between the shank portion of the electrode and the wall of the bore being filled with metal of high heat conductivity.

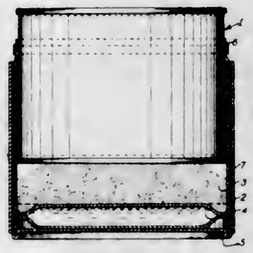
2,615,442
LUBRICATING APPARATUS
Clarence T. Berry, Augusta, Wis.; Orofino Berry administratrix of said Clarence T. Berry, deceased
Application July 26, 1949, Serial No. 106,937
3 Claims. (Cl. 123—196)



1. In a device for supplying lubricating oil to the crankcase of an internal combustion engine

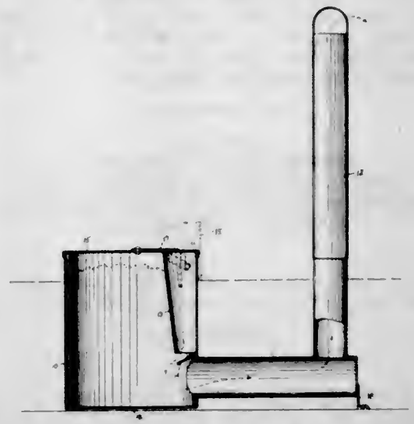
having a suction manifold whenever the level of the oil in the crankcase subsides below a predetermined level while the engine is running, a closed oil reservoir supported above the crankcase, a gravity feed pipe leading downwardly from a lower part of the reservoir into the crankcase, said feed pipe having an open lower end located near the bottom of the crankcase, an air pipe leading upwardly from the crankcase into an upper part of the interior of said reservoir above the level of oil therein, said air pipe having an open lower end located in the crankcase at a level intermediate the bottom of the crankcase and the normal level of oil in the crankcase, a suction pipe having an end adapted to be connected with the engine intake manifold and having another end, said suction pipe being connected at a point intermediate its ends with an upper part of the interior of said oil reservoir above the level of oil therein, suction-operated valve means connected in said oil-feeding pipe at a point between the reservoir and the open lower end of the feeding pipe, said valve means having a valve element arranged to occupy a first position in which it blocks said oil-feeding pipe and precludes flow of oil through said oil-feeding pipe to the crankcase and a second position in which it unblocks said oil-feeding pipe and permits flow of oil from the reservoir to the crankcase, suction-operated means connected to said valve element serving to maintain said valve element in said first position while the engine is not running, said operating means being operable by suction from said other end of the suction pipe to move said valve element from said first position to said second position while the engine is running to permit flow of oil through the oil feeding pipe when the oil level in the crankcase is below the level of and exposes the open lower end of the air pipe and air is permitted to enter the upper part of the reservoir from said air pipe to relieve the manifold suction in the reservoir above the oil therein.

2,615,443
SELF-HEATING CONTAINER
Lev Sukacev, Chevy Chase, Md., assignor to himself and Varvara Sukacev, Washington, D. C.
Application June 28, 1950, Serial No. 170,757
In France June 28, 1949
4 Claims. (Cl. 126—263)



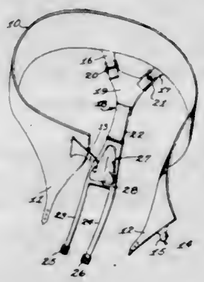
1. A self-heating device for canned foods comprising a solid-walled container having an open end, and a food can slidably telescoping in said container through said open end, said container being adapted to contain within a closed end thereof between said container and said can chemical components for producing an exothermic reaction, and said can on reaction of said components telescoping outwardly relative to said container to permit a product of said reaction to expand while substantially restricting said product to said container.

2,615,444
HEATER
Glenn F. Shaver, Graettinger, Iowa
Application July 27, 1949, Serial No. 107,007
5 Claims. (Cl. 126—367)



4. In a heater, an open top firebox, an enclosed combustion chamber communicating at one end with the inside of said firebox near the bottom thereof and closed at its other end, a vent pipe communicating at one end with said combustion chamber and at its other end with the atmosphere, a vertical partition provided within said firebox terminating at its bottom end at a point above and closely adjacent the communicating point between said firebox and said combustion chamber, a baffle plate secured to the inside of said firebox at a point below and adjacent the bottom of said vertical partition and extending downwardly and inwardly therefrom whereby air passing downwardly through said partition is deflected toward the bottom of said firebox for the purpose of increasing the intensity of any fire therein, and means for adjustably controlling the flow of air through said vertical partition.

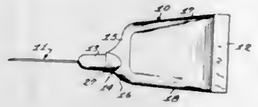
2,615,445
HEMORRHOID TRUSS
Earl H. Holmes, Louisville, Ky.
Application August 10, 1951, Serial No. 241,203
3 Claims. (Cl. 128—98)



1. A hemorrhoid truss comprising a wide belt having tabs extending laterally in the same direction therefrom one at each end thereof, means on said belt for adjustably securing the ends thereof together, straps extending laterally from said belt in the same direction as said tab one at each side of the mid-length location of the belt, a pad carrier adjustably secured at one end to said straps and at its other end to

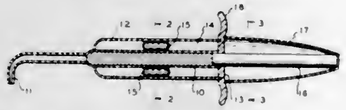
said tabs, and a pad of elastic material carried on said pad carrier intermediate the length of the latter, said pad being of elongated, generally triangular shape and having a narrow end disposed adjacent the end of said pad carrier connected to said straps and a wide end disposed adjacent the end of said pad carrier connected to said tabs, said straps being adapted to be positioned at the back and said tabs at the front of the body of the wearer of the truss.

2,615,446
HYPODERMIC SYRINGE
Paul B. Lingenfelter, Clinton, Okla.
Application May 15, 1951, Serial No. 226,379
5 Claims. (Cl. 128—216)



1. A hypodermic syringe comprising a container of resilient sheet material having a flattened shape with a substantially straight edge at one end and a needle receiving boss projecting from its other end and having a bore therethrough communicating with the interior of said container, said container having a substantially straight edge extending from one end of the first mentioned straight edge to said boss substantially in longitudinal alignment with the latter.

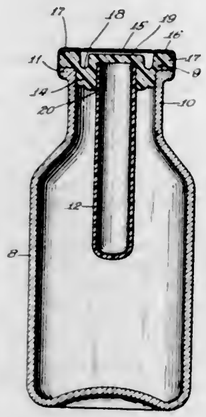
2,615,447
APPLICATOR FOR WAX AND WAXLIKE SUBSTANCES
Milton J. Cohen, Washington, D. C.
Application September 20, 1951, Serial No. 247,523
4 Claims. (Cl. 128—261)



1. A device for dispensing heated fluent material comprising an inner container and a flexible outer container providing a space between them which is closed at its ends, frangible fluid-filled capsules in said space, material in said space for evolving heat on contact with said fluid, meltable material in said inner container, and a nozzle projecting from said inner container.

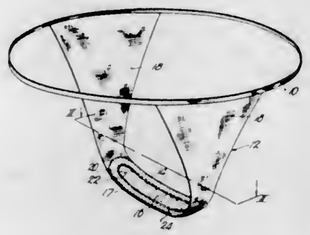
2,615,448
MULTIPLE CHAMBER PACKAGE
Mack R. Fields, Libertyville, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
Application July 8, 1950, Serial No. 172,643
6 Claims. (Cl. 128—272)

4. A closure for a multiple compartment package comprising, in combination: an annular portion; a central septum integrally united around its periphery with said annular portion; a sealing flange integrally united with an outer edge of said annular portion; the inner diameter of said flange being greater than the outer diameter of said septum to leave an annular groove between them; said septum terminating in a plane offset slightly below the plane of the upper surface of said flange, said annular portion extending below said sealing flange and adapted to seat internally in one compartment and externally on



the other compartment to seal both said compartments.

2,615,449
COMBINED CATAMENIAL APPLIANCE AND GARMENT
Ethel C. Brown, Mission, Kans.
Application August 2, 1951, Serial No. 239,974
4 Claims. (Cl. 128—289)

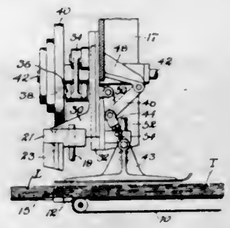


1. A combined catamenial appliance and garment comprising a continuous, body-encircling, elastic band; a substantially semi-circular, flexible panel depending from the band and having the ends thereof joined to the band at diametrically opposed points thereon; and an elongated, longitudinally-slotted, flexible strip on the uppermost face of the panel at the bight of the latter and secured to the panel solely at the periphery of the strip to present a pad-receiving pocket between the panel and the strip, the widths of the strip and of the panel being substantially the same at the strip.

2,615,450
SUTURE TREATMENT AND PRODUCT
John O. Bower, Wyncote, Pa.
No Drawing. Application June 9, 1948, Serial No. 32,030
11 Claims. (Cl. 128—335.5)

6. A surgical suture having substantial quantities of a material consisting essentially of the reaction product of hemoglobin and ethyl alcohol incorporated in its surface.

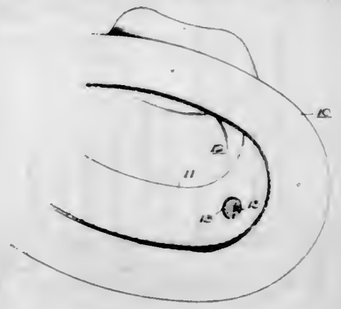
2,615,451
CROSS FEED CUTTER
John F. Halstead, Brooklyn, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application February 15, 1945, Serial No. 578,042
5 Claims. (Cl. 131—29)



1. In a cigar machine for making cigar bunches having a tapered tuck end, the combination with bunch crimper mechanism adapted to shape and trim the ends of cigar bunches, said bunch crimper mechanism including a pair of jaws adapted to compress the tuck ends of cigar bunches to a predetermined tapered shape, means for forwarding a narrow stream of filler tobacco, a ledger plate over which said stream of filler tobacco is advanced by said means for severance of bunch lengths, said ledger plate being provided with indentations having curved sides and having a configuration coresponding to the required shape of the head ends of bunch lengths from which cigar bunches are to be formed, the indentations in said ledger plate having inward substantially wedge-shaped extensions, and the configuration of said indentations and their inward extensions corresponding to the required shape of the indentations in the tuck ends of bunch lengths from which cigar bunches are to be formed and said inward extensions terminating at a point where the taper of the tuck ends of cigar bunches formed therefrom substantially terminates when the cigar bunches are compressed between said pair of jaws, and a cutter provided with ribs closely fitting the indentations of said ledger plate and their inward extensions and adapted to coact therewith to sever bunch lengths of filler tobacco from said stream and which are assembled for the formation of bunch charges to which binders are applied to produce cigar bunches, whereby the head end of the severed bunch length section will have the proper amount of tobacco required for formation of the head end of the cigar bunch and a surplus of tobacco consisting of integral tails which will be trimmed off in said bunch crimper mechanism when said cigar bunches are delivered to the crimper mechanism, and the tuck end of the bunch length section of the filler stream located immediately behind the cutter will have the proper amount of filler tobacco required for the formation of the tapered tuck end of the cigar bunch.

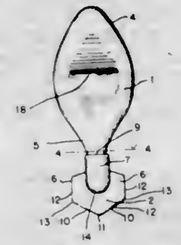
2,615,452
HAT RETAINER MEANS
Herbert M. Birch, Bethesda, Md.
Application May 7, 1948, Serial No. 25,657
2 Claims. (Cl. 132—57)

1. In a hat or the like, a sweat band including a hat retaining adhesive strip operatively associated therewith and mounted over an opening formed in a relatively small portion of the forehead adjacent portion thereof, said strip being



normally inoperative until moved into engagement with a spot on the forehead of the wearer.

2,615,453
CUTICLE PUSHER
Idalu S. Ohman, Cloquet, Minn.
Application January 11, 1951, Serial No. 205,486
1 Claim. (Cl. 132—73)

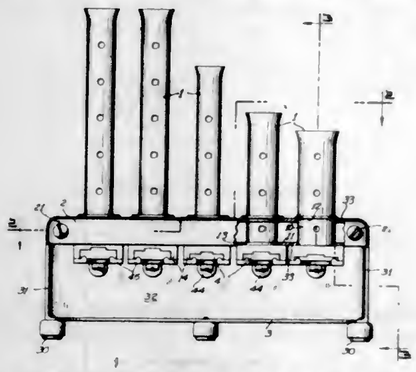


As a new article of manufacture, a device for use in manicuring fingernails consisting of a holder, a tip carried at one end of said holder, a socket in said tip to receive said holder, said tip being of resilient material and having the working portion thereof of substantially uniform thickness throughout, a pair of converging side edges on said working portion, and a bead surrounding said socket where it meets said working portion to prevent the holder from causing injury to said fingernails, said bead being integral with said tip and being arcuately shaped so as to be substantially equi-distant from all of the working edges of said tip whereby said working portion may flex freely during use irrespective of which edge thereof is employed.

2,615,454
CHANGE MAKER
Edward F. Leese, Everett, Wash.
Application June 10, 1949, Serial No. 98,240
5 Claims. (Cl. 133—5)

1. A change-maker comprising a base formed with an elevated shelf and having a skirt depending at its front but open at its rear side, a plurality of notches of uniform shape and size formed in the rear edge of said shelf, each having parallel sides, a like number of coin tubes each having an external upper flange near its lower end, and having an upwardly facing external shoulder spaced below said flange by the thickness of the shelf, the exterior of each tube, intermediate the flange and shoulder, being shaped to fit snugly and non-rotatively within any notch, a retainer bar notched con plemen-

tally to the tubes, and of a thickness equal to that of the shelf, means to secure said retainer bar removably to the shelf, to constitute its rear



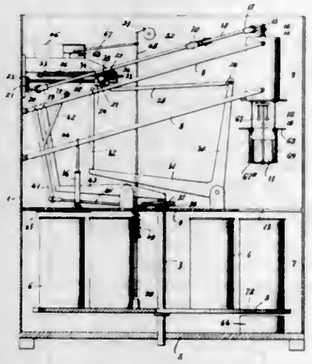
edge, and coin delivering means mounted in the lower end of each tube, beneath the shelf, and operatively engageable only from the open rear side of the skirted base.

2,615,455

APPARATUS FOR CLEANING WATCHES AND WATCH PARTS

Jonas Almer Persson, Hassela, Sweden

Application May 5, 1948, Serial No. 25,287
In Sweden May 7, 1947
6 Claims. (Cl. 134—58)



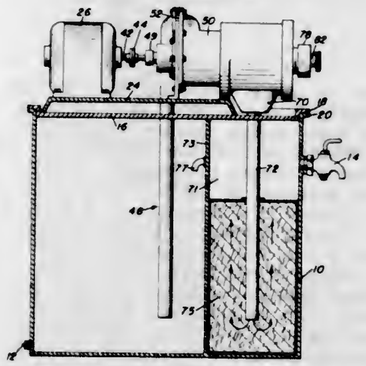
1. A watch cleaning machine comprising a housing having a horizontal intermediately located wall disposed therein; a vertically extending shaft rotatably and slidably journalled in said wall and extending below the latter; a disc carried by said shaft below said wall; an opening formed through said wall; a plurality of spaced apart containers for containing cleansing fluids carried by said disc and adapted to successively register with said opening; substantially parallel link arms disposed above said wall and each pivotally carried at one end by said housing for swinging in a vertical plane; a reversible electric motor carried by the other ends of said link arms in vertical alignment with said opening and having a vertical rotatable motor shaft; a perforated casing dependingly mounted on said motor shaft and adapted to extend through said opening when said motor is lowered; raising and lowering means actuated by said motor shaft and connected between said housing and one of said link arms adapted to manipulate said link arms and thereby lower and raise said casing into and out of the one of said containers registered with said opening; means connected between said link arms and said first mentioned shaft adapted to intermittently rotate the latter during the upward movement of said link arms; and lever means connected between said link arms and said first mentioned shaft adapted to raise the latter when said link arms are lowered and to engage the tops of the containers not registered with said opening against the lower surface of said wall.

2,615,456

DIESEL ENGINE FILTER CLEANER

Earl E. Galusha, Salt Lake City, Utah, assignor, by direct and mesne assignments, of two-fifths to William Fotes and one-fifth to Horace C. Beck, both of Salt Lake City, Utah

Application October 12, 1950, Serial No. 189,806
7 Claims. (Cl. 134—140)



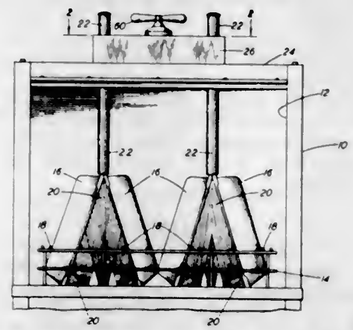
1. In a filter core cleaner, a liquid tank having a top and means disposed on said top for holding a filter core and circulating liquid from said tank through it, said means comprising a motor driven pump with an inlet member disposed in said tank, said pump having a shaft and an outlet; and a casing having a pressure chamber, a filter core end carrier bearing having liquid passages therein connected to said pump outlet, said bearing being fixed to said shaft, and means for supporting the other end of the filter core.

2,615,457

DISH HOLD-DOWN FOR DISHWASHING MACHINES

Frank G. Walker, Minneapolis, Minn.

Application January 13, 1950, Serial No. 138,343
8 Claims. (Cl. 134—201)



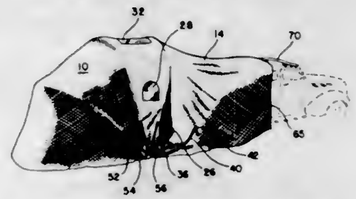
1. In a washing machine, a casing enclosing a washing compartment, a plurality of holding means supported by said casing and movable relative to each other and relative to said casing into engagement with dishes when placed within said washing compartment and operable to hold said dishes against displacement relatively to said casing during a washing operation, and locking means supported for movement relative to said holding means and operable to engage the latter and lock the same against movement relative to each other and to said casing.

2,615,458

CAR TOP BOW-SUPPORTED TENT

Lyman L. Jones, Seattle, Wash., assignor of one-half to George K. Barger, Seattle, Wash.

Application March 11, 1949, Serial No. 80,938
6 Claims. (Cl. 135—1)



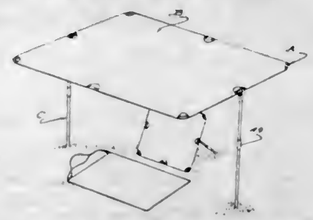
1. A collapsible and portable shelter, comprising: a collapsible, skeletal, supporting structure comprising a primary U-shaped bow and a plurality of secondary U-shaped bows; said secondary bows having the ends of their legs hingedly connected to the legs of said primary bow; flexible sheet material means forming a distensible enclosure; said skeletal structure being adapted to be disposed in supporting and distending relation to said enclosure; fastening means securing said primary and secondary bows to said enclosure; a pair of anchor posts adapted to be attached to a vehicle; linkage pivotally connecting the legs of said primary bow to said anchor posts; stop means limiting pivotal rotation of said primary bow with respect to said linkage to less than 360 degrees of arc; strain members adapted to connect the pivotal ends of said primary bow to portions of the adjacent secondary bow when the shelter is erected; a tunnel-shaped canopy of flexible sheet material attached to said enclosure to provide additional ground shelter; and a partition of flexible sheet material separating said canopy portion from said enclosure portion.

2,615,459

PORTABLE PROTECTIVE SCREEN AND CARRIER THEREFOR

Marjory Adams, Laguna Beach, Calif.

Application October 5, 1949, Serial No. 120,691
4 Claims. (Cl. 135—5)



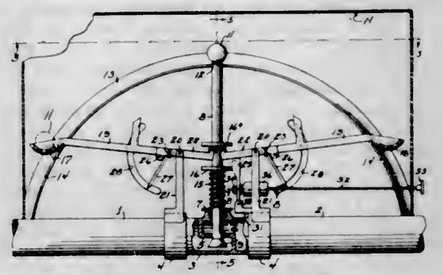
1. A protective screen including, a rectangular collapsible frame including stretchers each having sections pivotally connected by couplings, a leg, and means pivotally connecting the leg to a coupling including pivotal axes normal to each other.

2,615,460

VIBRATION RESPONSIVE SAFETY CUTOFF VALVE

William Willis Crow, Bell Gardens, Calif.

Application August 31, 1949, Serial No. 113,416
1 Claim. (Cl. 137—38)



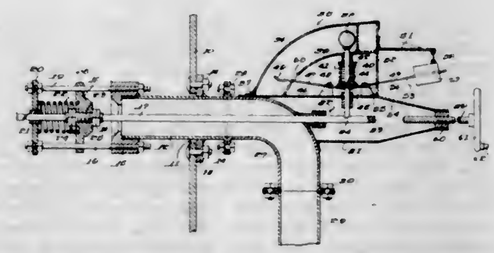
In a vibrating control mechanism, in combination, a valve casing having a valve therein, an upright valve stem projecting through the casing and connected to said valve and provided with a concave seat on its upper end, a ball adapted to be positioned in said seat, an arcuate track provided with a bore for the projection therethrough of said stem, there being a pair of oppositely arranged slots extending along said track, a stuffing box in said casing circumposed on said valve stem, a flange arranged on said stem above said stuffing box, a coil spring interposed between said flange and stuffing box, a pair of oppositely disposed levers slidably extending through said slots, a cup mounted on the outer end of each of said levers, a bracket pivotally supporting each of said levers, an arm pivotally connected to each of said levers, said arms being of forked construction to provide tines, a disc spaced above said flange and secured to said stem, a roller journalled in each of said tines for engagement with said disc, a latch engaging said flange for maintaining said valve stem in raised position, a resetting rod having one end connected to said latch, and a handle mounted on the other end of said resetting rod.

2,615,461

AUTOMATIC FIRE AND EARTHQUAKE RESPONSIVE CUTOFF VALVE

William Willis Crow, Bell Gardens, Calif.

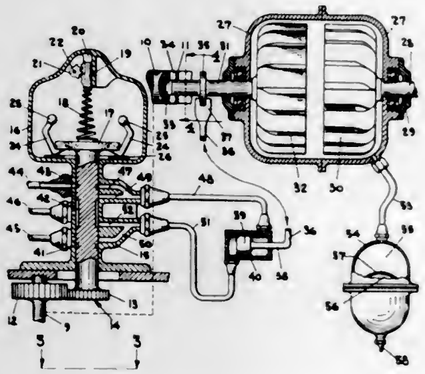
Application March 9, 1950, Serial No. 148,589
2 Claims. (Cl. 137—39)



1. In a cut-off mechanism, an open-ended pipe adapted to be connected to a tank, a bushing arranged on an end of said pipe and provided with a valve seat, a plurality of guide bolts projecting from said bushing, a plate secured to the projecting ends of said bolts, a plunger slidably connected to said guide bolts and mounted for

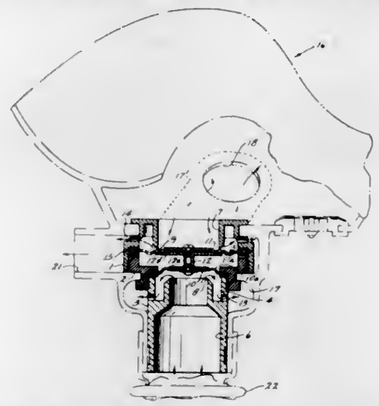
movement into and out of bridging relation with respect to said seat, a reciprocating rod extending through said pipe and through said plunger, a coil spring circumposed on said rod and interposed between said plate and plunger, a 90-degree elbow connected to the other end of said pipe, a casing secured to said elbow, said rod extending through said elbow and into said casing, a screw member projecting into said casing and adapted to engage an end of said rod, a manually operable wheel for rotating said screw member, an inclined housing secured to the top of said casing, there being a notch in said rod, a slidable stem having its lower end adapted to engage the notch in said rod, a seat arranged on the upper end of said stem, a ball arranged in said housing and normally seated on the seat of said stem for urging said stem into engagement with said notch, a lever pivotally connected to said casing, said ball adapted to be dislodged from its seat upon occurrence of a shock whereby said ball rolls into engagement with said lever to cause said lever to move said stem out of engagement with said notch whereby said plunger will move into bridging relation with respect to the seat in said bushing.

2,615,462
CENTRIFUGAL GOVERNOR HAVING A SERIES OF RADIALLY SHIFTABLE, MOTION TRANSMITTING BELL CRANK LEVERS
James T. Crowder, Dallas, Tex.
Application September 13, 1946, Serial No. 696,655
1 Claim. (Cl. 137—56)



In combination, a governor controlled valve mechanism comprising a tubular housing, a rotor member disposed within the housing for rotative and axial movement therein, means connected to the rotor member for rotating the same, a casing secured at one end to one end of the tubular housing, a disc secured transversely to one end of the rotor member and mounted within the casing, bell crank levers having their inner ends pivoted to the disc and provided at their outer ends with weights, the bell crank levers bearing against the end of the casing, a coil spring disposed axially of the disc and engaging at one end with the disc to oppose the longitudinal movement of the rotor member, a plunger slidably engaging a part of the casing and engaging the opposing end of the spring and movable axially of the spring to regulate its tension, and means extending to the exterior of the casing to shift the plunger.

2,615,463
FLUID PRESSURE APPARATUS AND VALVE MEANS THEREFOR
Henry L. Burns, Yellow Springs, Ohio
Application November 14, 1945, Serial No. 628,644
26 Claims. (Cl. 137—64)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

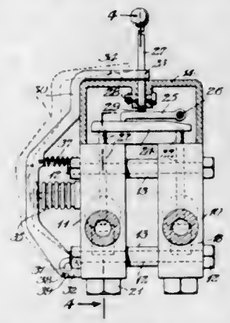


1. A valve device comprising a duct providing an inlet port, a first movable valve element cooperable with said inlet port, a second duct providing a discharge port, a second movable valve element cooperable with said discharge port, said ducts each comprising means for subjecting the respective valve elements to the influence of fluid pressure tending to move said elements to open positions, each of said valve elements having a greater fluid pressure loading capacity tending to move it toward an open position when said element is in an open position than when said element is in a closed position, means interconnecting said valve elements for opposed operation whereby when one of said elements is moved toward open position the other of said valve elements is moved toward closed position, means providing a first outlet port and means of communication between said inlet port and said first outlet port when the first valve element is in open position, means providing a second outlet port and means of communication between said discharge port and said second outlet port when said discharge valve element is in open position, and means of communication between the first outlet port and the second duct.

2,615,464
SEQUENTIALLY OPERATED VALVE MECHANISM
Howard G. Hughey, Fanwood, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application June 26, 1946, Serial No. 679,395
4 Claims. (Cl. 137—87)

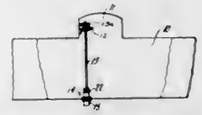
1. Valve mechanism for the control of two different fluids comprising two valve casings, fastening means connecting the valve casings together to form a structural unit, a valve in each casing, means for passing the two different fluids independently and separately through the two casings, a common actuating element for the two valves, a blocking device having a portion which in the blocking position of the blocking device crosses the path of movement of said actuating element and allows movement of the actuating element only so far as to permit operation of the first valve, and a bellows expansibly responsive to

the pressure of the fluid released by operation of the first valve for actuating the blocking device to move it from its blocking position and remove



said portion from its blocking position thereby permitting further movement of the actuating element and opening of the second valve.

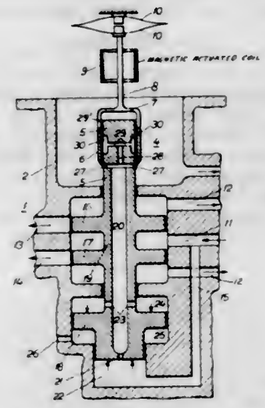
2,615,465
SELF-CLEANING VALVE
Erwin Woodward, Atlanta, Ga.
Application March 21, 1949, Serial No. 82,650
6 Claims. (Cl. 137—243)



1. In a self-cleaning valve, the combination of a valve stem adapted for axial and rotary motions having a non-circular end; a valve member adapted to engage a seat member having an annular seating surface and disposed beyond the said end of the valve stem; a valve guide stem fixed on the valve member toward the valve stem and substantially coaxial therewith, at least the end of said valve guide stem being non-circular; a sleeve enclosing said non-circular portions of said stems and having engagement therewith to transmit torque from the valve stem to the valve guide stem, at least one of said stems being axially slidable within the sleeve to permit axial motion between said stems; resilient means for urging the valve member away from the valve stem; abutment means operative to transmit axial thrust from said valve stem to said valve member after at least partial compression of said resilient means; and means independent of said abutment means for limiting the axial movement of the valve member away from the valve stem, whereby the valve member may be lifted from the seat member when the valve stem is retracted.

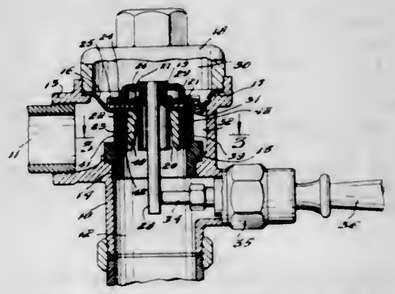
2,615,466
BALANCED PILOT VALVE FOR HYDRAULIC MAIN VALVES
Aage Garde, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application January 17, 1948, Serial No. 2,946
In Sweden September 10, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires September 10, 1962
5 Claims. (Cl. 137—623)

1. A regulating device comprising a cylinder fed with a fluid under pressure, a regulating piston movable therein, and a pilot valve mechanism connected with said regulating piston and comprising two relatively movable concentric members with a liquid space therebetween, a regulating device actuating one of said members, radial channels formed in the other of said members and communicating with a source of fluid under pressure, at least one of said radial chan-



nels being arranged to be closed by the first member when moving, and at least two of said radial channels terminating in the space between the two concentric members and being symmetrically arranged with respect to each other so that the fluid passing therefrom maintains said members in concentric relation to each other.

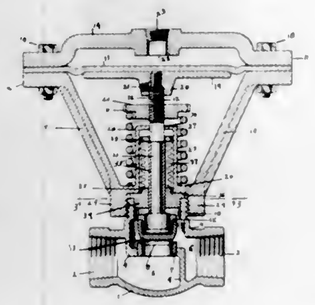
2,615,467
SILENT CLOSING PILOT-OPERATED VALVE
Edwin C. Baisel, New York, N. Y., assignor to Delany Realty Corporation, New York, N. Y., a corporation of New York
Application February 26, 1948, Serial No. 10,969
3 Claims. (Cl. 137—628)



1. In a valve, a valve casing having inlet and outlet openings, an annular wall located within said casing intermediate the inlet and outlet openings and defining a main passageway for the flow of fluid therethrough, said annular wall having spaced concentric wall portions providing concentric seats at the upper end thereof, a closure member located within said casing and movable toward and away from said seats and into engagement therewith for closing off the flow of fluid through the valve, said closure member having an annular element connected therewith and adapted to slidably fit in said main passageway for shutting off the flow therethrough prior to the seating of the closure member on said annular seats and said annular wall having a con-

tinuous recess opening between the lower end thereof and through said annular seats to thereby provide an auxiliary passageway for the flow of fluid through the valve during the closing movement of the closure member when said annular element closes off the flow through the main passageway prior to the seating of the valve element, and layers of foraminous material arranged in said recess for retarding the flow of the fluid through said auxiliary passageway.

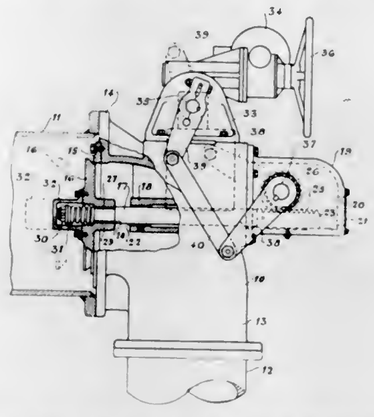
2,615,468
DIAPHRAGM CONTROLLED VALVE WITH BELLOWS TYPE SEAL
Bradford G. Woolley, Providence, R. I., assignor, by mesne assignments, to Reconstruction Finance Corporation, Boston, Mass., a corporation of the United States
Application May 16, 1947, Serial No. 748,552
4 Claims. (Cl. 137—688)



2. A diaphragm valve superstructure which comprises, an upper dish-shaped diaphragm casing, a lower diaphragm support member, a flexible diaphragm mounted therebetween and defining with the upper casing a chamber for the controlling fluid, a stem connected with the diaphragm and movable therewith, an adjustable spring button on the stem, a tubular barrel rigidly secured to the lower diaphragm support and within the interior thereof through which the stem projects, the upper section of the barrel serving as a stem guide, a stem spring enclosing the barrel and retained between the spring button and the lower section of the diaphragm support casing and a bellows seal secured to the stem at one end and at the other end to a part held in fixed position by the lower diaphragm support and mounted in enclosed position within the said barrel.

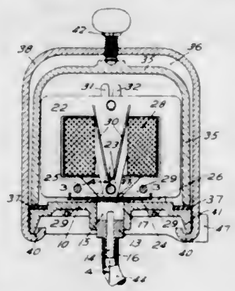
2,615,469
MOTOR-DRIVEN BLOWOFF VALVE
Wilfred C. Schofield, Chicago, Ill., assignor, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware
Application May 4, 1946, Serial No. 667,451
1 Claim. (Cl. 137—703)

In a blow-off valve for the release of gases under superatmospheric pressure from the interior of a hot blast furnace stove to the atmosphere after a blast period, in combination, a housing having a valve seat, a valve disk for said seat, a reciprocable stem loosely carrying said disk, said stem being provided with a spring for resiliently urging said disk longitudinally with respect to said stem, a rack and pinion drive for longitudinally moving said stem, said valve disk being positioned on the opposite side of said valve seat from said rack and pinion drive, said spring being positioned to urge said valve disk toward said rack and pinion and toward said valve seat by the longitudinal movement of said stem during the closing of the valve, to be compressed by the longitudinal movement of said stem during the final stage of valve closing and to be released from compression during the first stage of movement of said stem to open said valve, a crank for activating said rack and pinion drive, an operating crank, a rigid rod pivotally attached to and connecting the swinging extremities of said cranks, and a motor for operating said operating crank, said cranks, rod, valve disk, valve stem and motor being adapted to cooperate with said spring so that said spring



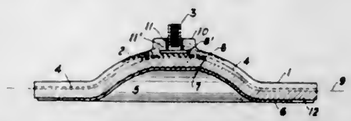
will give said valve disk and valve stem a flying start by the release of compression thereof upon initiation of the movement of the valve stem to open the valve at the same time that said cranks and rod are in a position to exert the greatest mechanical advantage and hence the greatest force for opening said valve and will act as a brake to brake said motor and as a cushion to prevent valve damage by the compression thereof during the final stage of valve closing when the cranks and rod are in a position to exert the greatest mechanical advantage for asserting the greatest force for closing said valve and for transmitting the braking action of said spring to said motor.

2,615,470
MAGNETIC AIR VALVE
Everett H. Bickley, Bala-Cynwyd, Pa.
Application April 23, 1947, Serial No. 743,259
5 Claims. (Cl. 137—730)



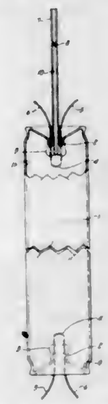
1. An air puffer unit for color sorting machines to produce short puffs of air in rapid succession comprising an open end casing, a base closing said end, means attaching said casing to said base in sealed relation to form a reservoir for air under pressure, said base having an inlet for air under pressure and an air discharge outlet, a strip valve of magnetizable material arranged over said outlet, a spring biasing said valve to closed position, a laminated field structure in said chamber and shaped to form two juxtaposed poles and a central pole interposed between said poles, said poles being in close proximity to said strip valve, an energizing coil encircling said central pole, and means in the form of a flexed spring for anchoring said coil in said field structure.

2,615,471
VALVE DIAPHRAGM
Rolland McFarland, Jr., Chicago, Ill., assignor to Hills-McCanna Company, Chicago, Ill., a corporation of Illinois
Application March 28, 1949, Serial No. 83,930
6 Claims. (Cl. 137—793)



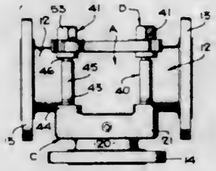
1. A valve diaphragm made of elastomer and for use in connection with a valve having a weir between its inlet and outlet, said diaphragm having a central bowl-shaped portion, a stud having its head embedded in the center of said diaphragm and its shank protruding therefrom, woven fabric discs of greater cross-sectional area than said stud head, but of lesser area than said bowl-shaped portion immediately adjacent and underlying the stud head to absorb compressive load from the stud head when the diaphragm is in a closed position and impressed upon a valve weir, and at least one woven fabric insert above said stud head the fibers of which are spread apart and unruptured around the stud shank in order to form a reinforcing collar through which said shank passes.

2,615,472
GLASS TUBULATURE FOR FEEDING MERCURY
Marvin Pipkin, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application December 16, 1947, Serial No. 791,993
2 Claims. (Cl. 138—68)



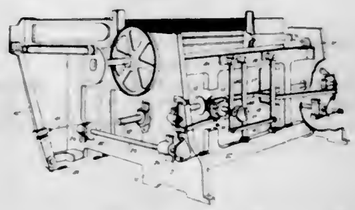
1. A stem for an electric device comprising a glass stem tube and a glass exhaust tube sealed to said stem tube and having a passage extending therethrough, said exhaust tube having its interior surface provided with a substantially uniform coating of an unctuous pulverulent material to which mercury is substantially nonadherent whereby to minimize retention of liquid mercury on the said surface upon passage thereof through the exhaust tube.

2,615,473
BLINDING DEVICE FOR PIPE LINES
Leland S. Hamer, Long Beach, Calif., assignor of one-fourth to Paul A. Dewhirst, Los Angeles, Calif.
Application January 20, 1947, Serial No. 723,047
8 Claims. (Cl. 138—89)



1. A fitting of the character described including, a body having a main portion and an outlet projecting from one side of said portion of the body and terminating at a clamp face, a clamp slidably engaged with the body and having a clamp face spaced from and opposing the face of the body, a plate adapted to be arranged in the space between the faces, and operating means connecting the clamp and body and including an operating nut accessible at the opposite side of said main portion of the body, a lug projecting from the body and supporting the nut, and means rotatably retaining the nut on the lug against axial movement relative thereto.

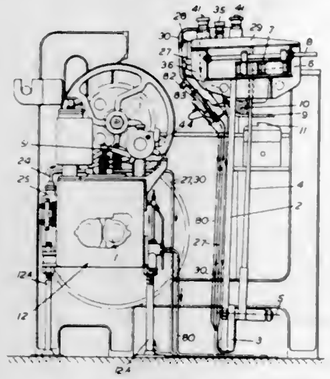
2,615,474
SHUTTLE EJECTION MECHANISM FOR LOOMS
Juan Batlió Ibañez, Barcelona, Spain
Application December 19, 1949, Serial No. 133,925
In Spain July 26, 1949
6 Claims. (Cl. 139—145)



1. Shuttle ejection mechanism comprising on each side of the loom, a rotatably mounted crank device having a crank axle, a spring coupled by one end to said crank, a pivotally mounted lever, the other end of said spring being connected to said lever, a general axle for said loom, a cam movable by said general axle, said lever imparting tension to said spring, retaining means to maintain the crank against the spring action in a point located at one side of a line determined by the crank axle and the end of the tension imparting lever and normally resting the crank near said line, releasing means adapted for producing a partial rotation of the crank against the spring action until the crank passes to the other side of said line, said crank in said last position being

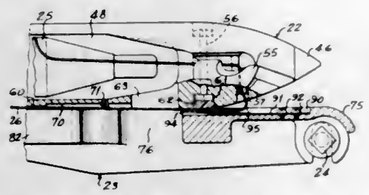
allowed to receive the full action of the spring which imparts a rapid rotating movement to the crank axle, said axle in turn acting on the shuttle ejection member of the loom.

2,615,475
WEFT CHANGE BOX MECHANISM FOR LOOMS FOR WEAVING
Frederick Sydney Eves, Bangor, Northern Ireland, assignor to Munster Simms & Company Limited, Belfast, Northern Ireland
Application July 25, 1950, Serial No. 175,731
In Great Britain December 29, 1948
14 Claims. (Cl. 139—171)



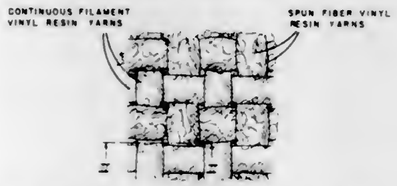
1. A change box mechanism for attachment to a loom, comprising a change box movable to predetermined positions to bring the desired shuttle into register with the picker, a slave piston and cylinder device for moving the box, and hydraulic pulse-supplying means actuable from a part of the loom driven in synchronism with the loom mechanism, for supplying hydraulic pulses to position the slave piston and cylinder device and comprising plunger means for creating the pulses, and distributor valve means located between the plunger means and the slave cylinder and positionable to direct any pulse to either end of the slave cylinder.

2,615,476
SHUTTLE BOX AND SHUTTLE FOR FILLING REPLENISHING LOOMS
James M. Jenkins, Kannapolis, N. C., assignor of one-half to Claude O. Plott, Concord, N. C.
Application March 1, 1950, Serial No. 147,081
2 Claims. (Cl. 139—183)



1. An improved shuttle and shuttle box front combination for looms, said loom being provided with a lay and also having a shuttle box on at least one end of said lay and being provided with a picker stick having a picker thereon adapted to be engaged by the shuttle as the shuttle is thrown into the shuttle box and also to throw the shuttle out of the shuttle box across the lay, said shuttle having a quill having weft yarn thereon, said shuttle having an eye through which the yarn passes said loom also having an automatically operable yarn clamping and cutting apparatus thereon, said shuttle and shuttle box front being provided with openings which coincide with each other when the shuttle is boxed in the shuttle box and through which the yarn clamping and cutting apparatus is adapted to extend during a transfer operation, said shuttle having a smooth flat surface on its side adjacent the shuttle box front and disposed between the eye of the shuttle and the opening in the side of the shuttle, said improvement comprising a leaf spring member secured to the shuttle box front and the free end of the leaf spring member being adapted to engage the smooth flat surface on the shuttle when the shuttle is boxed, a projection on said shuttle disposed on the oppcsite side of the opening from which the flat surface is disposed and whereby, upon the shuttle rebounding following a boxing operation, the weft yarn extending from the shuttle will be supported by the projection at one side of the opening and by the leaf spring member pressing the yarn against the flat surface of the shuttle at the other side of the opening to properly position the yarn for engagement by the yarn clamping and cutting apparatus.

2,615,477
FILTER MEDIA
William P. Crawley, Media, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application March 18, 1948, Serial No. 15,730
3 Claims. (Cl. 139—426)

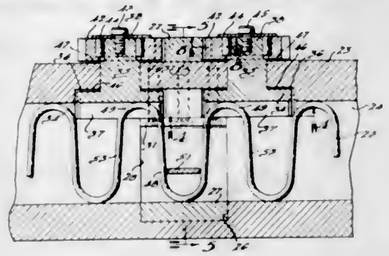


1. An all-vinyl resin filter medium comprising a fabric woven from yarns formed from continuous filaments of a vinyl resin and yarns formed from discontinuous fibers of a vinyl resin, the continuous filament yarns and the discontinuous fiber yarns alternating regularly in a 1:1 pattern in both yarn systems of the fabric, the ends of the discontinuous fibers protruding from each yarn comprising such fibers being meshed with the ends of fibers protruding from an adjacent yarn comprising discontinuous fibers to form a network which bridges each of the interstices of the fabric, thereby partially closing interstices between the yarns, said fabric being characterized by channels which lie in two planes in the fabric and bend through the fabric from one face thereof to the other.

2,615,478
MACHINE FOR FORMING SPRINGS HAVING CLOSED ENDS
Henry Hopkes, Jr., Grosse Pointe Farms, Mich., assignor to No-Sag Spring Company, Detroit, Mich., a corporation of Michigan
Application September 9, 1948, Serial No. 48,408
4 Claims. (Cl. 140—102)

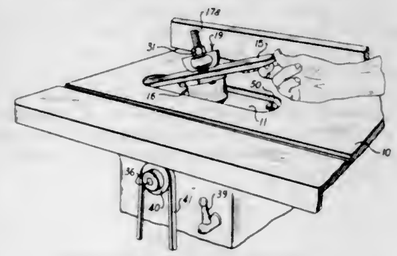
1. In a machine for severing strips of sinuous spring stock into predetermined lengths com-

prising a cutter, a positioning means for locating a loop of the sinuous strip adjacent to the cutter, rotatable heads having slots in which the loops adjacent to the located loop are disposed and



from which the loop is severed, and means for rotating the heads simultaneously approximately 180° for twisting the adjacent loops into the plane of the strip to form a closed supporting end therefor.

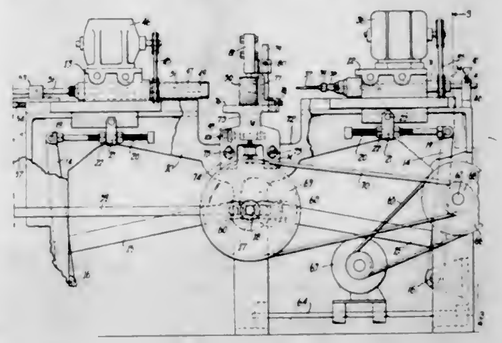
2,615,479
WOODSAWING MACHINE AND SHAPER ATTACHMENT THEREFOR
Roswell D. Bearup, Colorado Springs, Colo.
Application June 14, 1948, Serial No. 32,831
9 Claims. (Cl. 144—1)



1. A woodworking machine of the character described, including a drive shaft, means for driving said shaft, a table located above the drive shaft and having an opening formed therein, a removable insert located in said opening, said insert carrying a shaper assembly including a vertically disposed driven shaft and a driven cone mounted upon said shaft, and a driving cone assembly removably mounted upon the driving shaft, said driving shaft and driving cone assembly being adjustable relative to the driven shaft whereby to vary the pressure of the driving cone upon the driven cone.

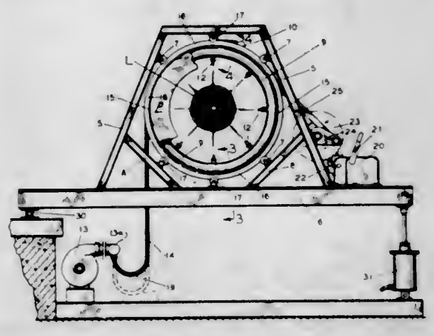
2,615,480
CORK CUTTING MACHINE
Konrad Lober, Woodhaven, N. Y.
Application July 10, 1947, Serial No. 760,041
1 Claim. (Cl. 144—2)

The combination, in a machine for cutting forms from a bar of material including a frame having a table extending laterally thereof for supporting the material, means for intermittently feeding the material along the table, a guide on the table and axially aligned carriage guides at opposite sides of the table; of carriages in the guides, means for reciprocating each of the carriages toward and away from the table, a cradle in each carriage, means for adjusting each cradle laterally of its carriage, a spindle assembly in each cradle, said spindle assemblies each mounting a tubular cutter of different diameter propelled by movement of the carriages toward each other to transpierce the material simultaneously from opposite sides and cut therefrom a form having a circular bore, a discharge pin loosely mounted in one of the cutters, a stationary push rod extending with said cutter to prevent retractile movement of the pin to expel a core of material from the cutter when the latter



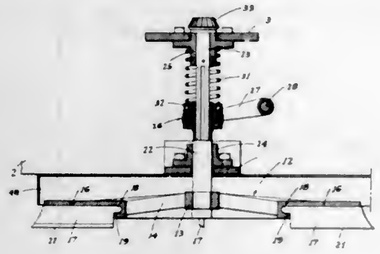
moves away from the table, a pressure rod in the other cutter including a pressure block for squeezing the material against said table guide during the transpiercing operation, a slide to which said pressure rod is secured, means for reciprocating said slide independently of the cutter with which said pressure rod coacts whereby said pressure block expels a core of material from said cutter, and means for rotating said tubular cutters in unison.

2,615,481
OSCILLATING MANIFOLD HYDRAULIC LOG BARKER
Frederick W. Horstkotte, Portland, Oreg.
Application November 10, 1950, Serial No. 194,961
8 Claims. (Cl. 144—208)



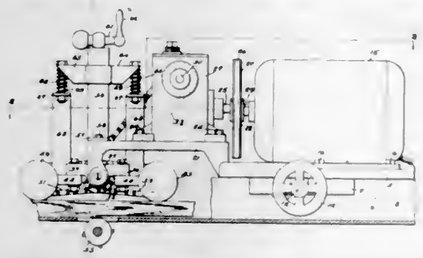
1. A hydraulic log barker comprising a frame, a ring-like high pressure nozzle manifold mounted within a drum-like cover for oscillation within said frame, means to oscillate said manifold and its cover, a plurality of hoses for supplying water to the interior of said manifold, said hoses being mounted in side by side relationship on the external periphery of said drum-like cover, said hoses being connected through said cover to said manifold, and a relatively fixed common water supply for the opposite ends of said hoses to which they are operatively joined, whereby said hoses wrap and unwrap from said cover as the same oscillates with the manifold.

2,615,482
ROTARY DISK CUTTER
Giovanni Parovel, Sacramento, Calif.
Application January 30, 1948, Serial No. 5,339
1 Claim. (Cl. 144—219)



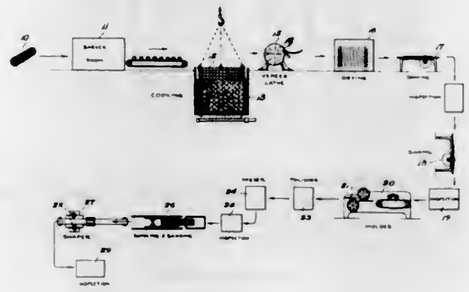
A spinner for a floor finishing machine comprising a hub, a vertical spindle upstanding from the hub, spider legs projecting radially of the hub, a peripheral band supported about the outer ends of the spider legs, certain of the legs being provided with radially disposed slots opening downwardly and the inner end of each slot terminating in a socket formed in the leg, a blade fitting in each slot, the blade being provided with a projection at its inner end fitting in the adjacent socket, and a set screw projecting diagonally through the band into engagement with each blade.

2,615,483
SHAPER-SAW POWER FEED DEVICE
Hugh W. King, Corinth, Miss.
Application December 22, 1948, Serial No. 66,675
1 Claim. (Cl. 144—247)



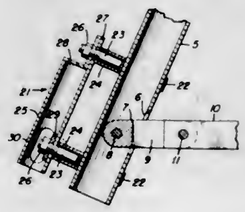
In a power stock feeding device, a base, means for securing the base to the fence of a wood working machine, a pair of stationary plates having bearings, mounted on the base, a shaft operating in said bearings, said stationary plates extending laterally from the shaft in opposite directions, said stationary plates have elongated openings, independent adjustable plates having openings fitted on the stationary plates in overlapping relation therewith, bolts extending through the openings of said overlapping plates securing the stationary plates and adjustable plates together, whereby the adjustable plates are adjusted to various angular positions with respect to the stationary plates, pressure roller shafts mounted on the adjustable plates, rubber faced pressure rollers mounted on the shafts, adapted to engage and feed stock through the machine, and means for rotating said pressure rollers.

2,615,484
PRODUCTION OF STICKS
Henry A. Roberge, Oakland, Maine, assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Application January 3, 1947, Serial No. 720,027
3 Claims. (Cl. 144—309)



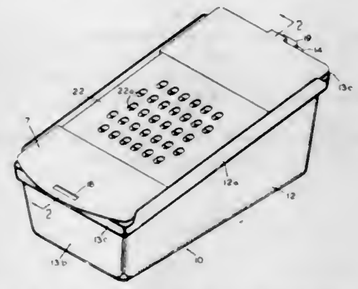
1. A process for the manufacture of sticks or the like comprising cutting sheets of veneer from a log, said sheets being substantially larger in all their dimensions than the finished sticks, cutting said sheets both with the grain and cross-grain the cross-grain cuts being spaced along the grain the final length of the finished sticks while sorting after each successive cutting to eliminate defective portions of the sheets and to produce veneer cards of substantially the final length of the finished stick and substantially thicker than the finished stick, and thereafter simultaneously cutting said cards into sticks and reducing the thickness thereof.

2,615,485
HANDLE FOR BUCKSAWS
Joe W. Canter, Wilmar, Ark.
Application April 22, 1949, Serial No. 88,971
1 Claim. (Cl. 145—108)



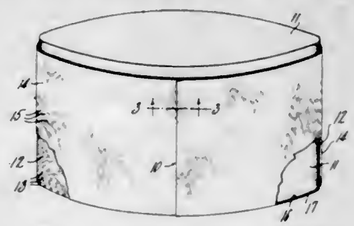
In a bucksaw having an elongated substantially U-shaped frame having a saw blade extending between the ends of said frame, a handle for the frame comprising spaced rings snugly fitted on the rear end of the frame above and below the blade and having rearwardly projecting threaded stems, spacing sleeves on said stems abutting the frame at their forward ends, a tubular hand grip having end openings receiving said stems and butting the rear ends of said sleeves, and nuts threaded on the stems for securing the hand grip thereon, at least one of the stems extending into said hand grip with the nut thereon disposed within the hand grip, said hand grip having a side slot through which access to the latter nut may be had for turning the same.

2,615,486
VEGETABLE GRATER
William Marcus, Cleveland, Ohio
Application January 14, 1950, Serial No. 138,551
2 Claims. (Cl. 146—180)



1. In a vegetable grater, a container having imperforate bottom, side and end walls, said side and end walls being offset laterally outward at the upper periphery thereof defining a shoulder at the zone of offset, a projection extending laterally outward at the upper edge of one of said end walls and intermediate the side edges thereof, a handle secured to the other of said end walls, a cover adapted to seat upon said shoulder, said cover when seated upon said shoulder being below the upper edges of said offset side walls, a transverse slot in said cover adjacent one end thereof adapted to engage said projection, a tab extending downwardly from the other end of said cover and adapted to snugly engage outside of a part rigid with said container, there being an opening through said cover intermediate its ends, two transversely extending channels at opposite ends of said opening integral with said cover, a generally rectangular cutter having suitable cutting edges exposed upwardly, end extensions on said cutter adapted to slidingly engage in the grooves of said channels, and said cutter being prevented from becoming slidingly disengaged from the said grooves of said channels by the said offset side walls.

2,615,487
LAP SEAM FOR COATED CORD FABRIC AND METHOD OF MAKING SAME
Marion M. Cunningham, Woonsocket, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application October 20, 1949, Serial No. 122,460
2 Claims. (Cl. 150—0.5)



1. A flexible liquid tight container made of coated cord fabric, and having a coated cord fabric lining provided with a leak-proof lap seam extending parallel to the cords of the lining, said seam being formed of two overlapping marginal portions of the lining so that one covers the other at the inner face of the container, the covering marginal portion adjacent its edge having a thin integral lip of the coating that is free of cord and said lip being bonded to the underlying layer of cord fabric so as to form a tight seal over any cord at the base of such lip.

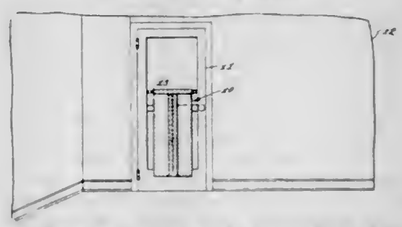
2. In the manufacture of non-metallic liquid containers, the method of joining two marginal wall portions of coated cord fabric so as to form a tight lap seam at the inner wall of the container and extending parallel to the cords of the fabric, which comprises overlapping two marginal portions of the coated cord fabric so that one marginal portion covers the other at the inner wall of the container, removing at least one cord from the covering marginal portion adjacent its edge so as to leave a thin cord-free lip of the coating at this edge, and bonding this cord-free lip to the underlying layer of cord fabric so as to form a tight seal over any cord at the base of such lip.

2,615,488
BAG CLOSURE
Charles V. Brady and August F. Ottinger, St. Louis, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application June 30, 1950, Serial No. 171,524
1 Claim. (Cl. 150—1)



A bag composed of woven material and having a draw-type closure comprising a length of raw-edged flat fabric tape woven with the material of the bag, said length of tape encompassing the bag girthwise adjacent its mouth and being arranged flatwise with respect to the bag body, stitching securing together the ends of the tape, the tape being of such width as readily to be secured by the stitching, and the tape being coated with adhesive only at its longitudinal raw edges, the greater portion of said adhesive being immediately adjacent the two outermost longitudinal yarns at the opposite edges of the tape and the other longitudinal yarns being substantially free of adhesive, the adhesive thereby being merely sufficient to prevent unravelling of the tape during initial handling and while the tape is woven into the bag.

2,615,489
DIAPER STORAGE DEVICE
Mary Frances Swinney, Globe, Ariz.
Application July 25, 1950, Serial No. 175,741
1 Claim. (Cl. 150—1)



In a diaper storing and supporting device, a bag comprising a flat base upon the lowermost

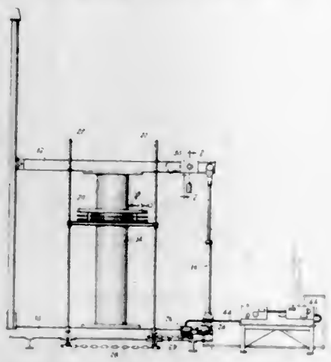
diaper of a stack of folded diapers is adapted to rest, said base being of substantially the same size and rectangular shape as a folded diaper, said bag having flexible vertical walls including first and second side walls secured at their lower edges to and rising from opposite side edges of said base and terminating at their upper edges on the same level, and end walls secured at their lower edges to and rising from the end edges of said base, the side edges of said end walls being secured to the side edges of said first and second side walls in a manner producing a rectangular interior for said bag, means securing the upper ends of said first and second side walls together, a suspending rod secured to the upper end of the bag, and access means on said first side wall providing access to the interior of the bag for inserting and removing diapers, said access means comprising a vertical slit formed in said first side wall intermediate the side edges of said first side wall, said slit extending from a point adjacent to said base to a point adjacent to and spaced below said suspending rod, and a vertical reinforcing strip on the outer side of said first side wall overlying said slit and extending along opposite sides of the slit, said reinforcing strip having side edges secured to said first side wall, said reinforcing strip being formed with a second slit coextensive with the first-mentioned slit, said first and second slits defining slit edges, the related slit edges being secured together throughout their length to provide a reinforced access opening.

2,615,490

CONTROL AND INDICATING MEANS

Henry Tyler Marcy, Staten Island, N. Y., Ernest Mayer, Jersey City, N. J., and John F. Reeves, Staten Island, N. Y., assignors to The M. W. Kellogg Co., Jersey City, N. J., a corporation of Delaware

Application October 5, 1949, Serial No. 119,678
6 Claims. (Cl. 153—32)



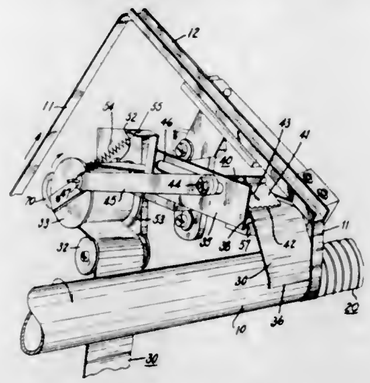
1. Indicating and control means in combination with an apparatus adapted to incrementally shape thermoplastic bodies and including a stress applying member adapted to rotate through a predetermined angle of arc to shape an increment of a thermoplastic body a predetermined amount and means adapted to move along said body to heat the material thereof to a temperature whereat it can be shaped by the force exerted by said stress applying member, comprising signal generating means carried by said stress applying member, a signal receiving means electrically connected to said signal generating means, and means connected to said heating means for predeterminedly displacing components of said last mentioned means in accordance with the movement of said heating means to thereby indicate the angular disposition of said stress applying member at the end of the shaping increment corresponding to a respective position of said heating means.

2,615,491

APPARATUS FOR REINFORCING AIR HOSE

Edward P. Harris and Frederick W. Sampson, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 8, 1951, Serial No. 225,202
4 Claims. (Cl. 154—6)



1. In a machine for making helically wrapped hose, in combination, a rotating and axially travelling mandrel, means for continuously wrapping a main ribbon of hose material upon said mandrel to form a helically wrapped main hose structure extending continuously over the length of said mandrel, intermittently actuated means for projecting at spaced locations along said mandrel the end of a continuous length of reinforcing tape between said mandrel and said main ribbon as said ribbon passes tangentially upon said mandrel so that said tape is caught by said rotating mandrel and wrapped directly thereupon inside of said main hose structure, and intermittently actuated means for cutting said reinforcing tape which is wrapped upon said mandrel at each of said spaced locations.

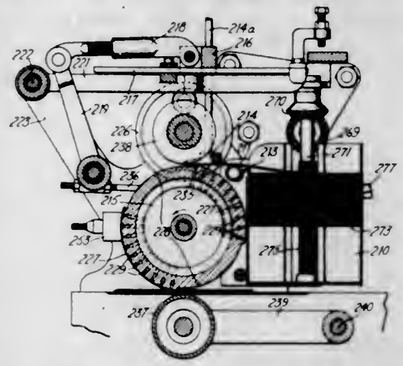
2,615,492

STRIP APPLYING DEVICE

Richard H. Holmwood, Binghamton, N. Y., and Paul A. Hauck, Union, N. J., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Original application February 12, 1947, Serial No. 728,050. Divided and this application April 20, 1948, Serial No. 22,068
2 Claims. (Cl. 154—36)

1. In a machine of the class described wherein a web is fed between pairs of rollers, a pair of rollers, one of the rollers of said pair being provided with a series of air ports having peripheral openings, means for producing a suction in the said ports for causing a piece of tissue to adhere thereto at the said openings, a pivoted arm for supporting the other roller of said pair, a spring normally biasing the second said roller against the first said roller to contact the web between them, means for displacing the second said roller against the bias of the said spring, and means under control of the said openings for actuating the said roller displacing means whereby the absence of a piece of tissue adhering to the first said roller causes the second said roller to be displaced therefrom thereby breaking its contact with the said web.

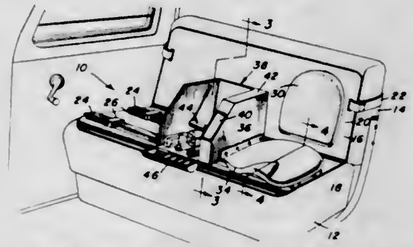


2,615,493

SLIDE SEAT

Nova E. Hunter, Frazeysburg, Ohio

Application August 10, 1949, Serial No. 109,534
11 Claims. (Cl. 155—5)



11. An auxiliary seat for use upon a conventional vehicle seat having a seating surface and a backrest, comprising a base having a first portion adapted to overlie the seating surface and a second portion adapted to overlie the backrest of the vehicle seat, and having a length and breadth corresponding in arrangement to that of the vehicle seat upon which it is adapted to be applied, guide means on said base extending lengthwise thereof, a seat member and coacting portions thereon engaged with said guide means, said seat member having its rear portion in proximity to the second portion of said base whereby an occupant of the auxiliary seat when the latter is on a vehicle seat may control movement of said seat member by engagement of a portion of said body against said second portion.

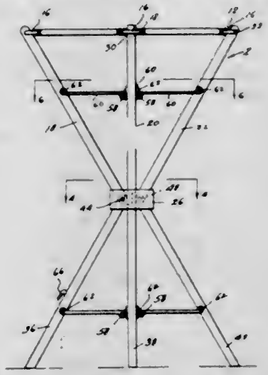
2,615,494

COLLAPSIBLE CHAIR-STICK

Anthony F. Ciaramella, New York, N. Y.

Application August 5, 1949, Serial No. 108,809
3 Claims. (Cl. 155—41)

1. In a collapsible chair, a support block formed with a central opening, a plurality of upper arms having lower ends positioned in the opening of the block, a plurality of lower arms having upper ends positioned in the block opening, with the lower and upper ends of adjacent upper and lower arms pivoted together and to the block whereby the upper and lower arms can swing from parallel relation to divergent relation, the said block opening defining side surfaces having divergent upper and lower portions serving as abutments for the related arms limiting divergent movement of the arms, and foldable struts extending between laterally adjacent upper and lower arms and pivoted thereto for holding the arms in divergent relation and in engagement with the abutments.



2,615,495

CHILD'S ROCKER TOY

Frank T. Hilliker, St. Louis, Mo.

Application March 6, 1950, Serial No. 147,953
1 Claim. (Cl. 155—69)



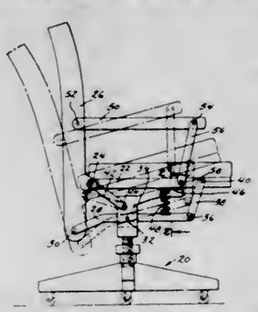
A child's rocker-toy comprising a large bowl-like element of sufficient size to permit a child to sit therein and having its upper peripheral margin encased in a relatively large rubber ring, said bowl-like element being of substantially greater wall thickness in the region of its bottom.

2,615,496

RECLINING ARTICLE OF FURNITURE

Anton Lorenz, Buffalo, N. Y., and Johannes Luckhardt, Berlin-Dahlem, Germany; said Luckhardt assignor to said Lorenz

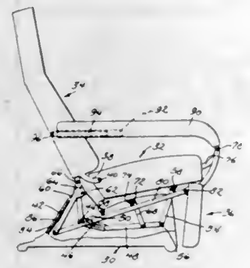
Application May 26, 1949, Serial No. 95,412
22 Claims. (Cl. 155—105)



1. An article of repose for supporting the body of a person, comprising in combination: a support, and a constrained linkage having stationary link-means and a plurality of movable links.

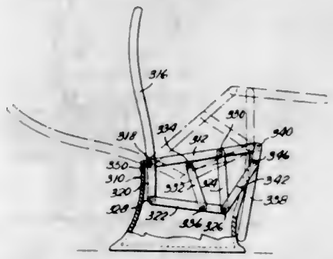
said stationary link-means being included in said support, said movable links including a front connecting link, a lower connecting link, guiding means and a seat-back-unit wherein the rear end portion of the seat and the back-rest are pivotally connected and the back-rest has a downward extension projecting beyond the pivotal connection between the seat and the back-rest, the upper end of said front connecting link being pivoted to the front portion of the seat, the lower end of said front connecting link being pivoted to the front end of said lower connecting link, the rear end of said lower connecting link being pivoted to the downward extension of the back-rest, said lower connecting link being pivoted to said support, and said guiding means being connected to said support and being engaged with said seat-back-unit.

2,615,497
RECLINING ARTICLE OF FURNITURE
Johannes Luckhardt, Berlin, Germany, assignor to Anton Lorenz, Buffalo, N. Y.
Application May 26, 1949, Serial No. 95,413
17 Claims. (Cl. 155—106)



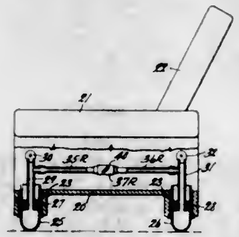
11. An article of repose for supporting the body of a person, comprising in combination: a support, a linkage comprising a seat structure, a back-rest structure and a chain of connecting links including a first connecting link at one end of the chain and a second connecting link at the other end of the chain, said first connecting link being pivoted to said back-rest structure, said second connecting link being pivoted to the front portion of said seat, the rear end portion of said seat structure being pivoted to said back-rest structure at a point spaced from the pivotal connection between the latter and the first connecting link, a double-armed guiding member swingably mounted on said support, one arm of said double-armed guiding member being pivoted to at least one structure of said seat- and back-rest structures, additional guiding means connected to said support and operatively engaged with at least one connecting link of said chain of connecting links, a leg-rest swingably mounted on the front portion of said seat structure, a controlling link pivoted at one of its ends to said leg-rest, the other end of said controlling link being pivoted to the other arm of said double-armed guiding member, and a stop arranged on said support for abutting engagement with said double-armed guiding member upon a movement of the movable members of the article from the sitting position into an intermediate reclined position whereby said pivotal connection between one arm of the double-armed guiding member and at least one of said structures is held in a fixed position so as to act as a fulcrum during a continuation of the movement of the movable members of the article into an extreme reclined position.

2,615,498
RECLINING ARTICLE OF FURNITURE
Anton Lorenz, Buffalo, N. Y.
Application February 18, 1947, Serial No. 729,289
12 Claims. (Cl. 155—106)



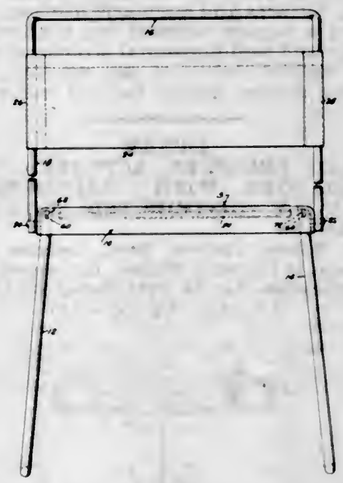
1. An article of repose for supporting the body of a person comprising in combination: a support, a constrained linkage having stationary link-means and a plurality of movable links, said stationary link-means being included in said support, said movable links including a seat-member, a downward extension of a back-rest member, a guiding means and a chain of connecting links including a lower connecting link at one end of the chain and a front connecting link at the other end of the chain, at least one of said connecting links being arranged below the plane of the seat-member, said guiding means being connected to said support and engaged with at least one connecting link of said chain of connecting links, said lower connecting link being pivoted to the downward extension of the back-rest member, said front connecting link being pivoted to the front portion of said seat-member, means pivotally connecting at least one of said back-rest- and seat-members with said support, a leg-rest swingably mounted on the front portion of the seat-member, and a controlling link, one end portion of said controlling link being pivoted to one of said connecting links, and the other end portion of said controlling link being pivoted to said leg-rest.

2,615,499
HYDROTILT
De Loss D. Wallace, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 27, 1950, Serial No. 202,835
10 Claims. (Cl. 155—116)



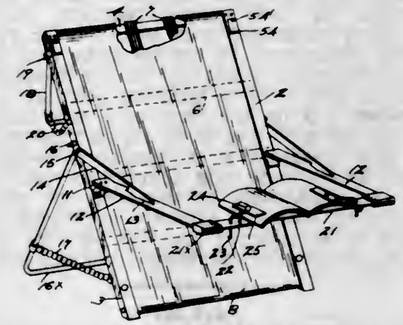
1. A chair adapted to be adjustably tilted by the application of a predetermined tilting force applied thereon, said chair being maintained in the adjusted position when the required tilting force is reduced or discontinued, comprising in combination, a frame providing a seat and a back support; two independent pairs of interconnected pedestals, each pair consisting of a front and rear pedestal movably carried by the frame; hydraulic mechanism associated with and operatively connecting each pair of pedestals; and normally closed fluid flow control means for said hydraulic mechanisms, operative, when said predetermined tilting force is applied to the frame of the chair, for permitting a controlled transfer of fluid between the two oppositely moving pedestals of each pair.

2,615,500
COLLAPSIBLE CHAIR
Garrett J. Thomas, Zion, Ill.
Application April 29, 1950, Serial No. 159,003
8 Claims. (Cl. 155—148)



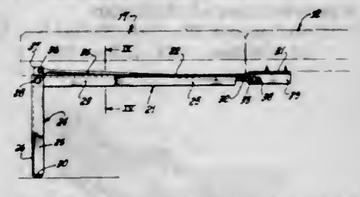
1. A collapsible chair having a rectangularly shaped seat frame formed of an inverted channel-shaped member, a flexible seat secured thereto, a back rest pivotally attached to the sides of said seat frame at the back corners thereof and legs extending downwardly therefrom, and legs capable of being folded within said channel shaped member.

2,615,501
LAWN OR BEACH COLLAPSIBLE BACK COMFORT DEVICE
Joseph Neiborn, Los Angeles, Calif.
Application December 12, 1949, Serial No. 132,598
3 Claims. (Cl. 155—154)



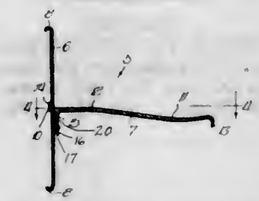
1. A seatless, sitting and lounging comfort device of the kind described and including a main, flat, rectangular frame having angle-section sides having inwardly directed coplanar front faces and back parallel flanges, arm rests hinged at their rear ends on said faces of said sides, a foot brace hinged to the frame sides to support the main frame in a nearly upright position and hooks connected to the main frame and hookable to said arm rests to suspend them when the main frame is set up on said foot brace, and a transverse book rest having sleeves telescoped onto the ends of the arm rests.

2,615,502
FOLDING LEG STRUCTURE FOR ARTICLES OF FURNITURE
Charles Schneider, Los Angeles, Calif.
Application June 9, 1950, Serial No. 167,043
3 Claims. (Cl. 155—165)



1. A device of the character described for use in furniture construction in combination: a beam member of U cross-section adapted to be secured to an article of furniture with legs of the U section in depending relation when the device is extended; a plate member adapted to be secured to another article of furniture and having spaced depending elements receiving therebetween one end of the beam member; a leg of U section receiving the other end portion of the beam member; spaced pivotal connections between the beam member and leg and between the beam member and plate member; an extension integral with said leg and extending beyond the spaced pivotal connections between the leg and beam member; a depending wall on the plate member lying in the same plane as said extension; and an operating rod pivotally connected to the extension and to the wall of the plate member; end edges of the flanges of said beam member being arranged to abut the adjacent end portion of the web of said leg when said leg is in extended perpendicular relationship to said beam member.

2,615,503
FOOT AND LEG REST
Evelyn E. Enge, Chicago, Ill.
Application March 8, 1950, Serial No. 148,361
6 Claims. (Cl. 155—169)



1. A foot and leg rest comprising a floor-engaging panel for engaging the floor and extending upwardly therefrom and having a hook receiving aperture therein, and a foot and leg supporting panel adapted to be connected to and project from the front side of said floor-engaging panel, said foot and leg supporting panel having an upwardly turned hook on the front end thereof adapted to fit through said aperture in said floor-engaging panel so as to engage the back side thereof at a place above said aperture, and

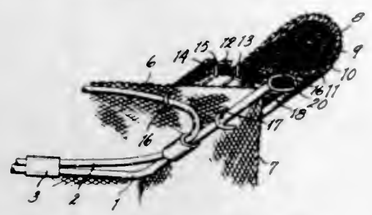
said foot and leg supporting panel having a stop on the underside thereof and adjacent the front end thereof adapted to engage the front side of said floor-engaging panel at a place below said aperture, said hook and stop together serving to lock said foot and leg supporting panel in place so as to prevent it from turning downwardly when the user rests his feet and lower legs thereon with said floor-engaging panel resting and balancing on the floor.

2,615,504

EDGE ROLL FOR SPRING STRUCTURES

Wayne S. Cook and Frank J. Hormuth, Grand Rapids, Mich., assignors to Sackner Products, Inc., a corporation of Michigan

Application August 30, 1948, Serial No. 46,911
10 Claims. (Cl. 155—184)



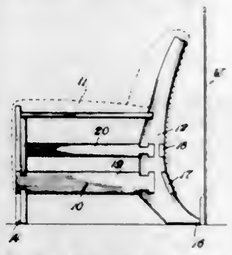
6. An edge roll for use in upholstering structures such as spring assemblies comprising, an elongated body member of general pear shaped section, the thinner edge being the inner edge of the body member, an elongated strip of flexible covering material closely wrapped transversely around the body member with its longitudinal edges disposed and secured in overlapping relation at the inner edge of the body member, a relatively stiff longitudinally extending reinforcing strand disposed at the inner edge of the body member and around which the covering is wrapped and constituting therewith the inner edge of the edge roll, and a downwardly projecting longitudinal bead on the underside of the body member disposed in spaced relation to the inner and outer edges thereof and comprising a relatively stiff elongated strand disposed within the covering and embraced by a fold thereof, there being stitching through the fold at the inner side of the strand, the said bead and reinforced inner edge facilitating the attachment of the edge roll by hog rings embracing said strands.

2,615,505

CHAIR CONSTRUCTION

Thomas A. Friedlander, Baltimore, Md.

Application October 22, 1948, Serial No. 55,999
4 Claims. (Cl. 155—196)



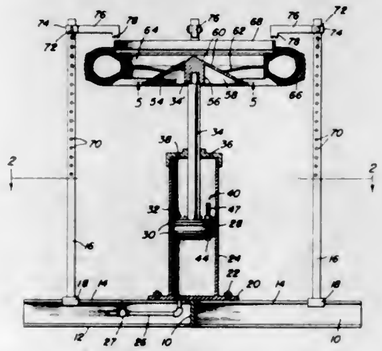
1. In a chair construction, a frame for use as a base for upholstery, comprising a pair of front legs and a pair of rear legs, horizontal structural members connecting said front and rear legs, each of said rear legs having an upper portion forming a back and a lower portion forming the support for said frame, said rear legs having a gradually increasing taper extending from said upper portion toward said lower portion, the rear portion of said rear legs including said upper and lower portions having a curved configuration, said curved lower portion extending rearwardly beyond said curved upper portion so as to prevent contact of said back with a generally vertical surface when said chair is positioned adjacent thereto, and joint means including interlocking portions having coacting vertical bearing surfaces and angularly disposed surfaces resisting a turning moment and connecting said rear legs and said horizontal structural members at the thickest section of said rear legs, thereby providing greater rigidity for said frame.

2,615,506

FLUID PRESSURE ACTUATED TIRE CHANGER WITH CIRCUMFERENTIALLY DISTRIBUTED THRUST MEANS

Earl F. Wilson, Carlton, Oreg., assignor of forty per cent to Claude I. Wilson, Davenport, Iowa

Application May 24, 1948, Serial No. 28,802
1 Claim. (Cl. 157—1.2)



A tire removing device comprising a base including a plurality of radial I-beams, uprights mounted for horizontal sliding adjustment on said I-beams and including integral, substantially C-shaped clamps on their lower ends adapted to frictionally grip the upper flanges of said I-beams and rigidly support the uprights in vertical position, said uprights having spaced openings in their upper portions, inwardly extending horizontal arms mounted for vertical sliding adjustment on the uprights, pins in the arms engageable selectively in the openings for securing said arms in adjusted position, a fluid operated jack on the base, said jack having a conical self-centering wheel support for supporting and elevating a horizontal, tire-equipped wheel, and a loose ring adapted to rest on the tire and engageable by the arms for resisting upward movement of said tire, said arms terminating in downturned free end portions having notches therein for the reception of said ring.

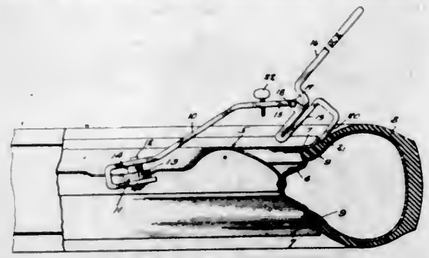
2,615,507

CIRCUMFERENTIALLY TRAVELING TYPE TIRE REMOVING TOOL

Charles Wendelken, Austin, Tex.

Application May 17, 1950, Serial No. 162,486
2 Claims. (Cl. 157—1.22)

1. A tool for removing tires from rims, comprising a fulcrum lever, a roller mounted at one end of said lever, said roller having multiple varying diameters, either of said roller diameters adapted to move over the wall of the central opening of the wheel with which the tool is used, a main lever pivotally connected intermediate



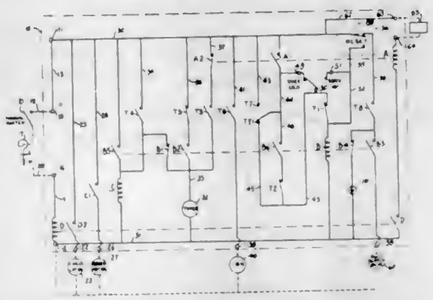
its ends to the other end of said fulcrum lever, a pressure foot formed at one end of the main lever, and said pressure foot adapted to move between the wheel and tire when said main lever is operated in one direction, separating the tire from the rim.

2,615,508

CYCLIC CONTROL SYSTEM FOR BURNERS OR OTHER CONDITION CHANGERS

Justin A. Deubel, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application July 29, 1950, Serial No. 176,704
5 Claims. (Cl. 158—28)



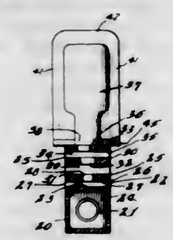
5. Control apparatus for controlling an oil burner fuel supplying means, said apparatus having power input terminals for supplying power to the control apparatus, first and second terminals adapted to be electrically joined by an external thermostat, third, fourth and fifth terminals adapted to be controlled by external switching means responsive to the temperature of combustion and having a cold position wherein said third and fourth terminals are electrically joined and a hot position wherein said fourth and fifth terminals are electrically joined, a sixth terminal adapted to be connected to said fuel supplying means to supply power thereto, said control apparatus comprising: a timer, a relay, switching means operated by said timer, switching means operated by said relay including a normally open timer-controlling switch, an initially closed timer-controlling switch operated by said timer, a circuit for said timer jointly controlled by both said timer-controlling switches, a circuit from one of said power input terminals to said sixth terminal jointly controlled by said timer and said relay, a starting circuit for said relay including first and second normally closed timer-operated switches adapted to be controlled by a circuit through said first and second terminals, a holding circuit for said relay in parallel with said first timer-operated switch including a third normally closed timer-operated switch and a normally open relay-operated switch, an additional holding circuit in parallel with said first timer-operated switch including said normally open relay-operated switch, said third timer-operated switch and said fourth and fifth terminals, said timer operating to open said first timer-operated switch after initial energization of said relay, thereafter momentarily opening said third timer-operated switch so that continued energization of said relay momentarily depends upon a closed circuit between said third and fourth terminals thereby checking the position of said external switching means responsive to the temperature of combustion, thereafter energizing said sixth terminal and consequently energizing said fuel supplying means, thereafter opening said second timer-operated switch making continuing energization of said relay depend on said external combustion responsive switching mechanism remaining in its hot position, and finally opening said initially closed timer-controlling switch operated by said timer to thereupon deenergize said timer making continued energization of said sixth terminal and consequently of said fuel supplying means depend upon continued energization of said relay.

2,615,509

GAS BURNER HAVING MULTIPLE PRIMARY AIR INLETS

James A. Whittington, Evanston, Ill., assignor of one-half to Alice P. Whittington, Evanston, Ill.

Application January 29, 1949, Serial No. 73,590
1 Claim. (Cl. 158—99)



In a burner of the character disclosed and which has a gas supply means having an orifice for the jetting of gas under pressure therefrom, a series of members arranged in parallel spaced relation and having progressively increasing sized orifices of fixed diameters located in alinement with each other and with the first mentioned orifice, each of said orifices in said members being defined by straight sides extending uniformly throughout the length thereof, the member having the smallest sized orifice being nearest said first mentioned orifice, and the spaces between said members being fixed and forming air inlet passages therebetween for affording flow of air through said passages and into the stream of gaseous fluid moving from an orifice to a next orifice of greater diameter, the flow of air-gas mixture from said gas supply orifice to the orifice of largest diameter creating a zone of low pressure beneath each of said members and adjacent and surrounding the lower edge of each orifice in said members and serving to draw in primary air through the spaces between said members to mix with the air-gas mixture, and a burner head member communicating with the last of said series of orifices and having a neck portion with an internal bore of a diameter at least as great as the diameter of the orifice in the last member

of said series to permit the air-gas mixture to pass freely and without restriction through said neck and into the burner head member, said burner head member having a chamber communicating with said neck and provided with an elongated port means open to the air and sufficient in extent to control the injection into the air-gas mixture as it passes through the orifices in the series of members of an amount of primary air required to provide a mixture of the proper air-gas ratio for combustion of the air-gas mixture at said elongated port means.

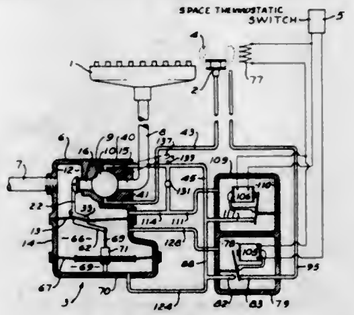
2,615,510
GAS BURNER HEAD
Richard E. James, Pasadena, and Albert J. Lampert, Walnut, Calif., assignors to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application May 24, 1947, Serial No. 750,337
2 Claims. (Cl. 158—116)



1. In a gas burner having a gas inlet, an air inlet, and a mixing chamber, the features of novelty comprising: a flared member extending from said mixing chamber and formed with a peripheral flange, said flange being formed with a plurality of alternately disposed raised and depressed sections and connecting walls forming a plurality of radial passageways, a cap having a concavo-convex section depending coaxially into said flared member and formed with a peripheral flange complementary to said first mentioned flange and being formed with a plurality of alternately raised and depressed sections and connecting walls forming a plurality of radial passageways, said cap being secured to said flared member in overlying spaced relation thereto, the alternately raised and depressed sections of said peripheral flanges cooperating to define spaced radial gas ports, the raised sections and connecting walls of the cap, and the raised sections of the flared member defining upper gas ports, and the depressed sections and connecting walls of the flared member and depressed sections of the cap defining lower gas ports staggered with respect to the upper ports, said upper ports being relatively larger than said lower ports.

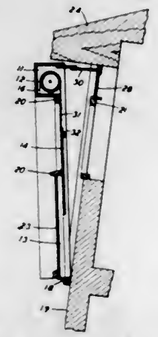
2,615,511
AUTOMATIC PRESSURE CONTROLLED VALVE SYSTEM FOR FLUID FUEL BURNERS
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Application December 7, 1946, Serial No. 714,794
22 Claims. (Cl. 158—131)

10. In a fluid fuel control system: a main burner; a pilot burner; a main valve for controlling flow to the main burner; a supplemental valve for completely interrupting flow of fuel to the main valve; means connected to the supplemental valve adapted to operate the supplemental valve to open position; valve means for passing fuel to the pilot burner; means responsive to the existence of a pilot flame for conditioning said supplemental valve operating means to open the supplemental valve, and for closing said supplemental valve upon failure of said pilot flame;



and means operating in accordance with temperature requirements of a space for moving said supplemental valve operating means to open and close the said supplemental valve.

2,615,512
WINDOW CONSTRUCTION
Harald T. Friis, Rumson, N. J.
Application February 15, 1949, Serial No. 76,441
7 Claims. (Cl. 160—27)



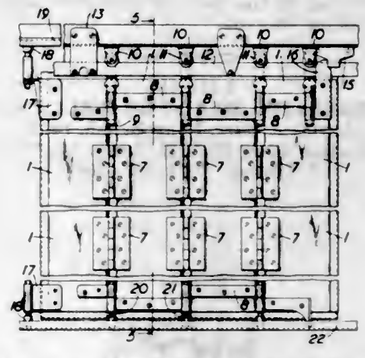
2. In combination, a portion of building wall that has a window opening therein, a unitary window assembly retractably mounted on the outer face of said wall portion overlying said opening, said assembly comprising a pair of vertical sash weight housings connected at their upper ends by a horizontal roller housing and connected at their lower ends by a sash housing, a roller mounted in said horizontal housing, long flexible members connected to said roller to support sash weights in said vertical housings, a fly screen attached at its one end to said roller and to a sliding sash at its other, said housings being spaced from each other to frame a rectangular opening of substantially the size of said window opening and said sash housing being deep enough to accommodate said sash when the latter is fully lowered, stops carried by said housings and extending around said rectangular opening with their sash facing-surfaces in the same plane, stops carried by said wall portion and extending around said window opening with their sash-facing surfaces in the same plane, and clamping means to draw said assembly toward said wall portion, and to release it, at will.

2,615,513
ROLL-AWAY SCREEN
Thomas C. Radford, St. Paul, Minn.
Application October 15, 1949, Serial No. 121,539
3 Claims. (Cl. 160—28)



1. In a device of the class described, a housing, a tubular roller in the housing, an axially movable trunnion on the housing on which the roller at one end is removably mounted, a cap closing the other end of the roller and having an axial hole, a rod extending into the roller through the axial hole in the cap, said rod having an out-of-round axial hole in the outer end thereof, said cap being rotatably mounted on the rod, an out-of-round stud on the housing and extending into said axial hole in the outer end of the rod, and removably supporting the rod, a coiled spring encircling the rod and having one of its ends secured to the roller and having its other end attached to the rod, a screen windable on the roller, said screen having means on its other end for attaching the same to a support, and means for holding the roller and rod against relative axial movement.

2,615,514
DOOR FOR VEHICLES
Ernest H. Hickling, London, and Frank Cheffings and William Butlin, Greenford, England, assignors to Normand Limited, London, England, a British company
Application June 1, 1950, Serial No. 165,464
In Great Britain March 13, 1950
5 Claims. (Cl. 160—118)



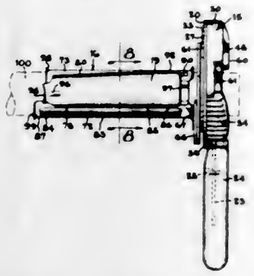
1. A sliding door assembly for a vehicle body having a door opening therein, the said assembly comprising in combination a vehicle body having side walls in substantially rectangular arrangement, one of said walls including said door opening, a door structure mounted on said body for sliding between a closed position closing said opening and an open position in which the door is disposed substantially parallel to side wall portions adjacent to the side wall including said door opening, the said door structure being composed of a plurality of elongated slats and a plurality of pairs of hinges each hinge including a hinge pin, one hinge of each pair being disposed above the other between each two adjacent slats for hinging the door slats together, a plurality of hanger brackets substantially of inverted U-shape, each secured to the pin of an upper hinge and protruding from the upper edge of the door structure, a grooved pulley mounted within each hanger bracket rotatable about a horizontal axis, a plurality of substantially cylindrical rollers, each secured to the pin of a lower hinge and protruding from the lower edge of the door structure, the said rollers being mounted for rotation about a vertical axis, a first guide track rail fixedly mounted to the vehicle body along the upper side wall edge defining the door opening and extending beyond the said door opening parallel to side wall portions adjacent to the side wall including the door opening, the said pulleys and the said track being disposed in a spatial relationship in which said pulleys ride upon the upper edge of the track thereby suspending the door structure from the track, a jumper roller secured to at least one of said hinge pins and rotatable about a horizontal axis and disposed below the track closely adjacent thereto and in alignment with the track and the respective pulley for preventing track jumping of the pulleys supporting the door structure, a second guide track substantially in form of an upright U-shape fixedly mounted on the vehicle body parallel to and along the lower edge of the side wall defining the door opening and extending beyond the said opening parallel to side wall portions adjacent to the side wall including the door opening, the second guide track being engaged by said cylindrical rollers, a pair of end rollers secured to the outermost door slat nearest to a side wall when the door is in the closed position, one of said end rollers protruding from the upper edge of the outermost slat and the other from the opposite edge of the said slat, a third guide track substantially of inverted U-shape fixedly secured to the vehicle body parallel to the first guide track and engaged by said upper end roller for guiding the same, and a fourth guide track fixedly secured to the vehicle body substantially parallel to the second guide track and engaged by the lower end roller for guiding the same, the said fourth guide track extending parallel to a side wall portion adjacent to the door opening and ending substantially at the respective edge of the door opening.

2,615,515
WINDOW SCREEN FOR AUTOMOBILES
William E. Hoffman, North Sacramento, Calif.
Application October 26, 1951, Serial No. 253,234
3 Claims. (Cl. 160—369)



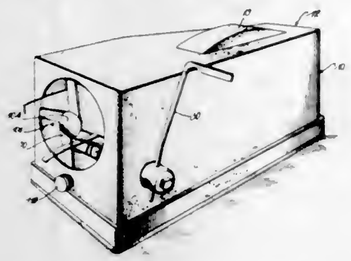
1. A window screen for automobiles including a screen member extendable over the full area of the window opening of an automotive vehicle; a binding strip engaging the peripheral portion of said screen member; and upper and lower brackets extending laterally from said binding strip and rigidly secured to the binding strip, said brackets releasably engaging the upper and lower edges of said window opening to removably mount the screen in said opening.

2,615,516
WINDOW SHADE CUTTER
Robert W. Hyde, Cincinnati, Ohio, assignor to Clopay Corporation, Cincinnati, Ohio, a corporation of Maryland
Application April 29, 1949, Serial No. 90,361
11 Claims. (Cl. 164—34)



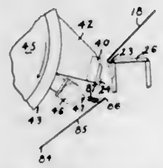
1. A hand tool for cutting a rolled window shade and tubular roller comprising, a cutting head having means for clamping a shade for rotation with the shade centered and fixed longitudinally relative to the head, a cutting knife movably mounted on the cutting head adapted to be fed manually through the shade during rotation thereof to sever the same, spring means for urging the cutting knife normally in a retracted position, and cooperating hand gripping means on the knife and cutting head respectively arranged to feed the knife toward the shade with one hand during the cutting operation counter to the force of the spring means.

2,615,517
DISPENSER FOR CUTTING AND SUPPORTING TAPE
Tripoli J. Di Cicco, Concord, Mass., assignor to Electro Products Company, a partnership
Application June 21, 1948, Serial No. 34,311
1 Claim. (Cl. 164—61)



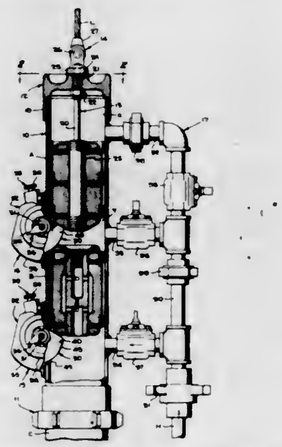
In a machine for dispensing tape of the kind having one plain face and one adhesive face the combination with a casing having a dispensing mouth, a fixed blade plate spanning said mouth, a movable cutting mechanism comprising a plurality of substantially radially extending blades, means for imparting step by step rotary movement to said cutting mechanism to move said blades across the fixed blade plate in cutting coaction therewith, means controlled by said first named means for feeding the tape through said mouth while said cutting mechanism is stationary across and beneath the blade plate with its plain side toward the blade plate and its adhesive side toward the edge of the advancing blade of the movable cutting mechanism, said blades having outwardly projecting ledges adjacent the cutting edges of the blades to which ledges the adhesive sides of the cut off portions of the tape adhere, the forward feeding of the tape being to a degree to cause the cut off portions of the tape to project materially beyond said blades and the said ledges being of such width in proportion to the lengths of tape cut off as to hold and carry successively cut off portions to a plurality of advanced positions with said cut off portions outstanding from the blades in substantial parallelism with each other.

2,615,518
SHEET CUTTER
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application May 1, 1947, Serial No. 745,144
4 Claims. (Cl. 164—68)



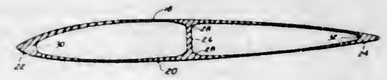
1. A mechanism for severing individual sheets from a continuous length of flexible material, comprising: a rotatable blade having a cutting edge, a stationary blade having a cutting edge closely adjacent the path of movement of said rotating cutting edge for periodic shearing coaction therewith, means for feeding the flexible material between said blades, and means co-rotatable with said rotatable blade directing a fluid stream in advance of said rotatable blade toward the material immediately preceding during and after shearing coaction of said blades for pressing the flexible material against said stationary edge during cutting of a sheet and for forcing the sheet out of the path of said rotatable blade after cutting thereof.

2,615,519
PLUG HANDLING HEAD FOR WELL CASINGS
Charles J. Carr, Long Beach, Calif.
Application June 30, 1947, Serial No. 758,184
3 Claims. (Cl. 166—14)



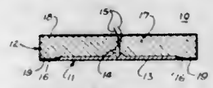
1. A head of the character described including, a vertically disposed tubular body adapted to carry a plug and having a side opening, and latch means carried by the body for preventing movement of the plug therein including, a housing secured to the exterior of the body and forming a latch chamber in communication with the interior of the body through said opening, a shaft rotatably supported by the housing, a latch plate in the housing and fixed on the shaft to be projectable into the body, a spring normally yieldingly holding the latch plate in position projecting into the body and beneath the plug to support it in the body, and a releasable member carried by the housing engaging the shaft to positively hold it against rotation with the latch plate in said position.

2,615,520
REINFORCED PROPELLER BLADE
Carl A. Liedholm, Mountain Lake, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application November 26, 1947, Serial No. 788,211
1 Claim. (Cl. 170—159)



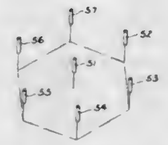
A hollow steel propeller blade comprising an integral, substantially homogeneous shell of airfoil profile having thickened leading and trailing edge portions and relatively thinner shell portions therebetween, said thinner shell portions extending across the blade chord from a short distance rearward of the leading edge to a short distance forward of the trailing edge, the interior surface layers of said leading and trailing edge portions deviating from the homogeneity of the rest of the blade and being nitrided to a depth of from .005" to .030", to precompress said surface layers, and to increase the strength and hardness thereof better to resist the action of operating stresses thereat, said nitrided surface layers terminating where the thickened leading and trailing edge blade portions blend in thickness to said thin shell portions.

2,615,521
APPARATUS FOR SEISMIC EXPLORATION
Thomas C. Poulter, La Grange, Ill., assignor to Institute of Inventive Research, San Antonio, Tex., a trust estate of San Antonio
Application May 26, 1948, Serial No. 29,307
2 Claims. (Cl. 181—.5)



1. An improvement in a seismic apparatus which comprises, in combination, a plurality of substantially flat plates of explosive, each of such plates having an extensive undersurface and having a thickness which is only a small fraction of the length and width dimensions thereof, means for supporting said plates laterally spaced from one another above the surface of the ground and with each of the plates generally parallel thereto and free of substantial obstruction to passage of a shock wave downwardly from said undersurface, means for firing the plates of explosive simultaneously, said plates being elevated substantially equally above the ground at such height that the waves set up in the air by the charges are still of supersonic velocity when they strike the ground for the setting up of a substantially flat seismic wave front having downwardly directive properties, and means including a geophone spread arranged in the path of the reflected wave front for recording the arrival of the same.

2,615,522
SEISMIC EXPLORATION EMPLOYING ELEVATED CHARGES
Thomas C. Poulter, Palo Alto, Calif., assignor to Institute of Inventive Research, San Antonio, Tex., a trust estate of San Antonio
Application July 2, 1949, Serial No. 102,821
8 Claims. (Cl. 181—0.5)



2. The method of seismic exploration which includes the steps of observing the period of seismic disturbance most readily transmitted by the earth in the region under study, so proportioning and arranging explosive charges above the surface of the earth that upon firing thereof the duration of the resulting gas pressure on the earth is substantially one-quarter of such period, firing the explosive charges simultaneously, and then receiving the seismic disturbance resulting therefrom after it has been transmitted through the earth.

2,615,523
SEISMIC EXPLORATION
Thomas C. Poulter, Palo Alto, Calif., assignor to Institute of Inventive Research, San Antonio, Tex., a trust estate of San Antonio
Application July 2, 1949, Serial No. 102,822
20 Claims. (Cl. 181—.5)



2. The method of seismic exploration which includes the steps of applying to the earth over a broad but well-defined area two successive impulses spaced from one another by an interval substantially equal to three-fourths of the natural period of earth vibration in the region under study, and receiving the seismic wave resulting therefrom after the same has been transmitted through the earth.

2,615,524
SEISMIC EXPLORATION EMPLOYING ELEVATED CHARGES
Thomas C. Poulter, Palo Alto, Calif., assignor to Institute of Inventive Research, San Antonio, Tex., a trust estate of San Antonio
Application July 2, 1949, Serial No. 102,823
12 Claims. (Cl. 181—0.5)

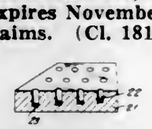
2. The method of seismic exploration which includes the steps of setting up a plurality of

charges spaced equidistant from one another a short distance above the surface of the earth, the spacing being such that the shock waves emanating from adjacent charges upon firing act directly on the earth to produce a first wave front therein and subsequently collide and reflect upon one another to produce a second wave



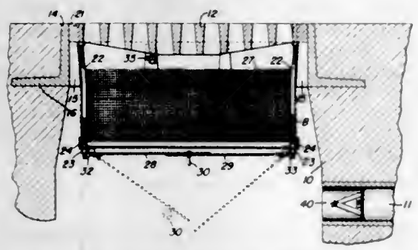
front in the earth spaced from the first by a time interval which is equal to the period of the vibration most readily transmitted over a desired seismic reflection path, firing said charges simultaneously, and receiving the resultant seismic wave after transmission over said reflection path.

2,615,525
SOUND-ABSORBING BOARD WITH HOLES CONTAINING DEBRIS MATERIAL
Erling Berner, Gothenburg, Sweden
Application July 29, 1947, Serial No. 764,457
In Sweden November 13, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires November 13, 1962
4 Claims. (Cl. 181—33)



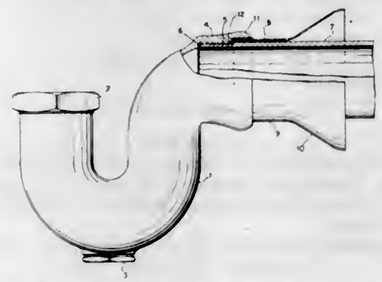
2. A sound absorbing board of fibrous material having a multiplicity of holes formed therein of less depth than the thickness of the board, the bottom portions of the holes containing debris material inclusive of disc-like chips separated from the material of the board as the result of a core-boring forming operation and retained in said bottom portions.

2,615,526
SEWER CATCH BASIN UNIT
Frank Lane, Rochester, N. Y.
Application December 21, 1950, Serial No. 201,903
3 Claims. (Cl. 182—2)



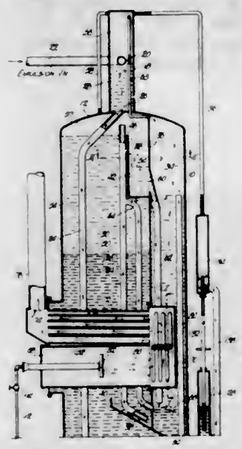
1. The combination with a sewer catch basin having an inlet opening, and a removable perforated cover closing said opening, of a receptacle secured to the cover to depend therefrom and to be removable therewith, said receptacle comprising a plurality of spaced rods secured to said cover and depending therefrom, a frame carried by said rods at their lower ends, a bottom door hingedly connected to said frame, and perforated material secured to said frame to extend thereabove and to constitute the side walls of the receptacle.

2,615,527
TRAP AND ESCUTCHEON
Charles E. Johnson, Dennis, Mass.
Application May 18, 1950, Serial No. 162,635
2 Claims. (Cl. 182—7)



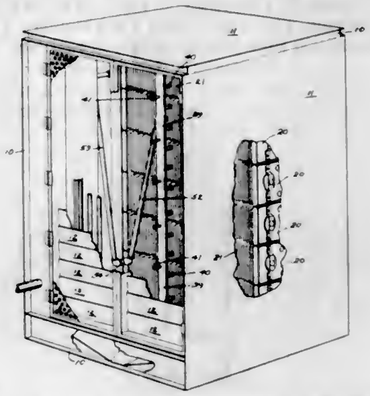
1. The combination of a trap having an internally-threaded end, a nipple having an externally-threaded end screwed to said threaded end of the trap, a cover tube on the nipple having one end flaring outwardly and adapted to surround and hide an opening in a wall through which the nipple may extend, and a cylindrical collar on the trap having a cylindrical inner wall extending beyond the threads of the trap and over the other end of the cover tube, a circumferential shoulder extending outwardly at the outer end of the internally threaded end of the trap to the inner end of the cylindrical collar, said shoulder being of such width that the inner wall has a diameter sufficiently greater than the external diameter of said other end of the cover tube to permit free and easy insertion of said other end of the cover tube into the space between the inner wall and the nipple.

2,615,528
APPARATUS FOR SEPARATING OIL EMULSION
Elmer R. Williams, Tulsa, Okla., assignor to Forrest Lee Murdock, Sr., Tulsa, Okla.
Application September 20, 1948, Serial No. 50,138
4 Claims. (Cl. 183—2.7)



1. In a petroleum dehydrator, an upright tank having a vertical compartment adapted to contain a column of water; structure in the tank forming a vertical chamber; a heater in said water and extending through said structure into the chamber; a downcomer for directing crude oil emulsion into the water for upward bubbling past said heater, said downcomer extending the entire length of said compartment within the heated water and emulsion therein for pre-heating of the emulsion flowing in the downcomer; a vertical conduit for receiving emulsion from the compartment at the uppermost end of the latter and directing the same into the chamber for upward bubbling past said heater, said conduit being disposed within the emulsion in said chamber for heating of emulsion flowing in the conduit; and an outlet pipe disposed to receive oil from near the uppermost end of said chamber and extending through the emulsion in the chamber for heating of the oil flowing in the pipe.

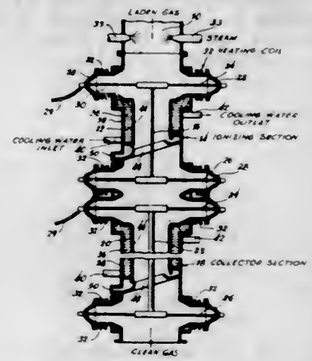
2,615,529
ELECTROSTATIC PRECIPITATOR
Roland L. Lincoln, Dover, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 1, 1948, Serial No. 52,329
12 Claims. (Cl. 183—7)



1. An electrostatic precipitator comprising a casing having a gas inlet and a gas outlet and a pair of vertical sides, a plurality of substantially vertically extending, spaced apart collector plates supported in said casing between said inlet and outlet and parallel said sides, said casing having an open space between one of said vertical sides and the outermost of said plates at one side of said plates which is out of alignment with said inlet and plates, a substantially vertically extending liquid header having a plurality of spray nozzles for spraying liquid in between adjacent of said plates, and means for moving said header substantially horizontally back and forth along said plates for washing same, and for moving said header into said space following the washing of said plates, said header when in said space being out of the gas stream flowing from said inlet between said plates.

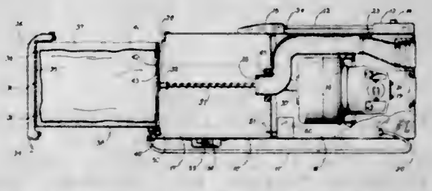
2,615,530
LIQUID CLEANED PRECIPITATOR
Peter Hodson, Wellsville, N. Y., and Hans Klemperer, Belmont, Mass., assignors to The Air Preheater Corporation, New York, N. Y.
Application November 25, 1949, Serial No. 129,264
1 Claim. (Cl. 183—7)

Apparatus for the precipitation of electrically charged dust particles or the like from suspension in a gaseous carrier fluid comprising; vertically disposed tubular members mounted in spaced relation and in axial alignment; means including wall elements forming a chamber between said members in communication therewith and together with said members forming a continuous gas passage; individual precipitator electrodes extending axially of said members; electrical means for charging said electrodes extending into said chamber for connection with said electrodes; insulators for said electrical connecting means in the walls of said chamber; means for introducing moisture into the stream of laden gases; means forming cooling jackets surrounding the wall of



each tubular member; means for continuously circulating a cooling medium through said jackets to condense fluid from the stream of gases upon the walls of said tubular members; annular fluid collecting troughs extending transversely across the lower end of each tubular member and disposed opposite its lower perimetral edge for receiving the stream of fluid and entrained particles flowing from the inner wall of said tubular member; drain means connected to said troughs for carrying away the liquid collected therein; and heating means associated with said insulators for protecting them from moisture in gases flowing through said chamber and maintaining them in a dry state.

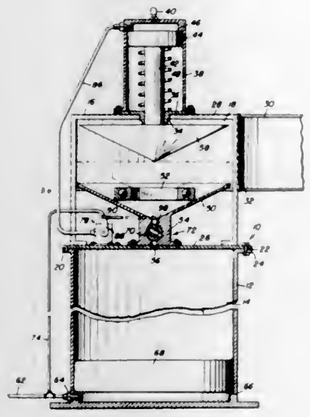
2,615,531
REARWARDLY DISCHARGING TANK TYPE SUCTION CLEANER
Oliver L. Allen, Riverside, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application July 26, 1947, Serial No. 763,832
13 Claims. (Cl. 183—37)



1. In a vacuum cleaner, an elongated casing formed with a motor fan chamber in one end and a dust receptacle compartment in the other end, said casing being formed with an opening at the end of said receptacle compartment which is remote from said chamber, means forming an inlet port and an outlet port at the motor fan chamber end of said casing, conduit means for conveying dust-laden air from said inlet port to said receptacle compartment, a motor fan unit

in said chamber for delivering air from said receptacle compartment to said outlet port, a dust receptacle having an air pervious body and a stiff end wall formed with an inlet opening, a movable cover for said opening at the end of said dust receptacle compartment, and structure extending inwardly from said cover and including means for engaging said stiff wall to maintain the inlet opening thereof in communication with said conduit means when said cover is in closed position.

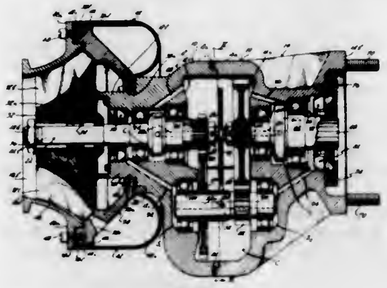
2,615,532
AIR OPERATED BALL AND ROLLER BEARING GREASE PACKER
Joseph E. Drury, Richland, Wash.
Application April 25, 1949, Serial No. 89,388
4 Claims. (Cl. 184—1)



1. In a bearing assembly lubricating device, a housing having a lubricant chamber member, a bearing assembly seat carried by said housing, a lubricant valve communicating said chamber with said seat, a bearing assembly holder operable in said housing and juxtaposed with respect to said seat, means operatively connected with said holder for urging said holder against a bearing assembly disposed in said seat including an air valve, an air pressure inlet line attached thereto, means secured to said lubricant valve and said air valve connecting said valves for simultaneous operation, a piston disposed in said lubricant chamber member, said inlet line being operatively connected with said chamber member to urge said piston to force lubricant through said lubricant valve, and an air line extending from said air valve and operatively connected with said holder.

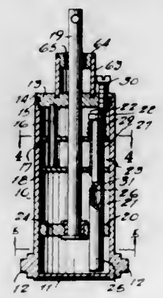
2,615,533
SELF-LUBRICATED TURBINE DRIVE AND GEAR REDUCTION UNIT
Robert Cliborn, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 15, 1949, Serial No. 76,511
11 Claims. (Cl. 184—11)

5. In a self-lubricated gear drive unit, a casing having a gear chamber adapted to receive a charge of lubricant and a shaft bore extending away from said gear chamber, a bearing means in said shaft bore, a shaft journaled in said bearing means and having an end portion extending into said gear chamber, gear means on said end portion rotatable in said gear chamber, said shaft having a lubricating passage communicating with said bearing means in said shaft bore and opening axially outwardly at the end portion of said shaft,



and baffle means in said gear chamber at the end of said shaft to direct lubricant splashed by said gears into said lubricating passage for passage to said bearing means.

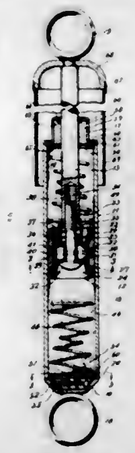
2,615,534
HYDRAULIC CONTROL FOR MECHANISMS
William Thomas Blake, Fort Worth, Tex.
Application February 1, 1949, Serial No. 73,879
5 Claims. (Cl. 188—96)



1. In a control assembly for fluids in a dashpot having a cylindrical casing and a plurality of compart ents defined by partitions, and a piston operating in one of said compartments, a valve mechanism comprising a tube arranged longitudinally of the axis of said casing and extending through said partitions and having an opening therein in the lowermost compartment above said piston and providing communication through said piston, a check valve operatively arranged in the bottom of said tube, a tensioned needle valve in said tube for controlling passage of fluids through said opening in said tube above said piston, and means in one end of said casing for adjusting said needle valve.

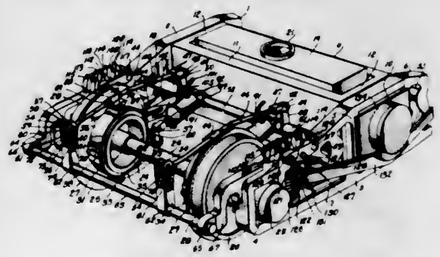
2,615,535
DIRECT ACTING FRICTION SHOCK ABSORBER
Jacob Rush Snyder, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application August 12, 1948, Serial No. 43,898
1 Claim. (Cl. 188—129)

A shock absorber comprising, a housing having a cylinder therein, a plunger slidably operable in said cylinder and having friction means adapted to be expanded into frictional engagement with the wall of said cylinder, and a loose dry lubri-



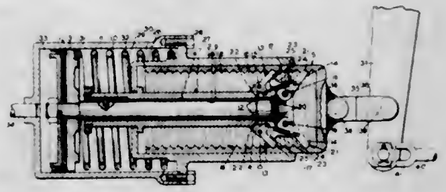
cating powder confined in said housing, said lubricating powder comprising lithium stearate.

2,615,536
BRAKE
Willard G. Ransom, Homewood, Kans.
Application May 31, 1947, Serial No. 751,587
12 Claims. (Cl. 188—195)



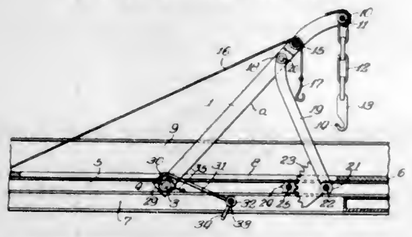
6. In a railway truck including spaced side frames, a load carrying bolster extending transversely between the side frames, trunnion boxes vertically slidable in the side frame, trunnions on the ends of the bolster and mounted in the trunnion boxes, transverse axles journalled on the frame at the front and rear of the bolster, wheels on said axles, a brake mechanism for each wheel including a drum fixed to rotate with its associated wheel, a plurality of brake shoes for each drum, means pivotally interconnecting the brake shoes of each drum in a circumferential series with the exception of two adjacent brake shoes in each series, transverse shafts at the front and rear of each axle, pairs of arms pivotally supported on the shafts to the front and rear of each drum, rod-like supports pivotally connecting the arms of each pair of arms and having yieldable support relatively to one of the arms, means connecting the rod-like supports to the interconnected shoes, a separate actuator for each braking means and having pivotal support on one of said shafts, a lever mechanism connecting the actuators with said interconnected brake shoes, a fulcrum lever associated with each wheel and having pivotal support on the frame adjacent its associated wheel, means connecting each fulcrum lever with its related supporting arm to control movement of said arm responsive to movement of the fulcrum lever, and links connecting the fulcrum levers on the same side frames and extending in lifting relation with the trunnion boxes to lift the load on said bolster when the fulcrum levers are actuated responsive to tangential pull of the shoes on the rod-like supports, whereby the load limits the effective force of the brake shoes.

2,615,537
COMBINED BRAKE CYLINDER AND SLACK ADJUSTER
Cecil S. Kelley, Forest Hills, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application May 21, 1949, Serial No. 94,714
8 Claims. (Cl. 188—200)



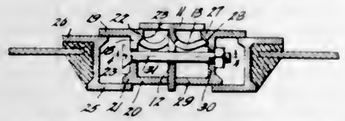
6. A combined brake cylinder and slack adjuster device comprising a casing, a piston slidably mounted in a bore in said casing, a piston rod connected at one end to said piston, a non-pressure head secured to said casing and having a longitudinal bore, a flange formed on said head, a hollow brake applying rod slidably mounted in said longitudinal bore and having ratchet teeth formed on the interior wall thereof, and a slack adjuster mechanism enclosed in said hollow rod, said mechanism comprising a hollow movable member surrounding said piston rod, two stops carried by said member for limiting movement of said member in each direction relative to said flange, a plurality of bell cranks mounted on said member, one arm of each of said bell cranks comprising a pawl for engaging said teeth, a plurality of bell cranks mounted on the end of said piston rod remote from said piston, one arm of the last mentioned bell cranks comprising a pawl for engaging said teeth and the other arm arranged in a position relative to said one arm to be at right angles to said one arm of said first mentioned bell cranks upon said one arm of said second mentioned bell cranks engaging said teeth, spring means for biasing said one arm into engagement with said teeth and said other arms of said second mentioned bell cranks in the direction of said one arms of said first mentioned bell cranks, a stop carried by said piston rod to limit movement of said other arms in the direction of said one arms to provide a chosen clearance space therebetween upon said one arms engaging said teeth, said clearance space being insufficient to permit said one arms of the first named bell cranks to ratchet with respect to said teeth, means for effecting ratcheting of said pawls of said first mentioned bell cranks with respect to said teeth upon said piston moving in one direction a distance greater than the limited movement permitted said hollow movable member, and means for effecting ratcheting of said pawls of said second mentioned bell cranks with respect to said teeth upon subsequent movement of said piston in the opposite direction.

2,615,538
COLLAPSIBLE DERRICK
Manuel Eduardo Pelaez, Burzaco, Argentina
Application July 16, 1948, Serial No. 39,043
In Argentina May 14, 1948
6 Claims. (Cl. 189—15)



1. A collapsible derrick for vehicles having a main frame, comprising a pair of spaced apart channel members supported by said main frame, a jib positioned between said channel members, means connecting one end of said jib with said channel members for rotational and sliding movement with respect thereto in the raising and lowering of the jib, means pivotally connected to both the channel members and the other end of said jib to support the latter in its raised position, actuating means connected with said last named means for raising and lowering the jib, and releasable self-locking means between said vehicle main frame and said jib to anchor the latter in its raised position.

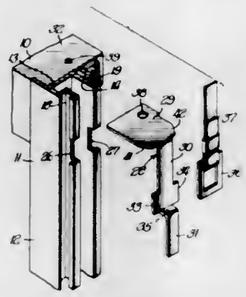
2,615,539
MULLION
Robert H. Bliss, Jr., East Syracuse, N. Y.
Application April 7, 1949, Serial No. 86,067
7 Claims. (Cl. 189—75)



7. In a casement window construction of the type having a series of windows fixed in a side-by-side relationship, each end member of said windows having a laterally projecting portion, a T-mullion interposed between each of the adjacent end members, said T-mullion comprising a head flange, a web, a series of tabs secured to the web at spaced intervals along its length, said tabs being positioned generally parallel to the plane of said head flange, a series of apertures provided in the web along its length, fastening means joining said adjacent end members passing through said apertures, said head flange engaging towards either end thereof a said laterally projecting portion of one of said end members, said tabs engaging the opposed surfaces of said laterally projecting portions, whereby a double sealing contact between said adjacent end members and said T-mullion is established, and said end members are fixed in the described relationship.

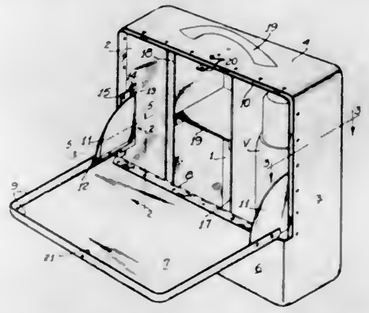
2,615,540
SASH CORNER CONSTRUCTION
Charles A. Pressnall, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois
Application June 10, 1947, Serial No. 753,644
6 Claims. (Cl. 189—76)

3. A balance tape anchor plate adapted for attachment to the top corner of a window sash which sash is characterized by a vertical side frame member provided with outwardly directed transversely spaced vertical side flanges and transversely aligned outwardly opening slots in the side flanges adjacent the top thereof, said anchor plate comprising a body portion adapted



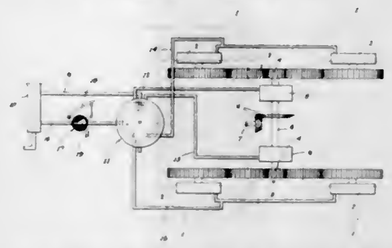
to be positioned in the space between the side flanges of the frame member, laterally extending members on the body portion adapted to be positioned in the transverse slots in the side flanges of the frame member and a downwardly directed hook formation for receiving in detachable relation the end of a balance tape.

2,615,541
PICNIC BOX
Jack H. Whitesel, Seattle, Wash.
Application August 16, 1948, Serial No. 44,462
2 Claims. (Cl. 190—12)



1. An upright picnic box comprising a relatively flat container closed at back, around all sides, and having a fixed lower front wall, to define a pouch within the container, a cover hingedly connected to the upper edge of said lower front wall, and cooperating with the latter to close the box, brace means comprising sectorial plates of resilient material, one such plate being secured by one radial edge to one side edge of the cover, and the other such plate being similarly secured to the opposite side edge of the cover, apices of said sectorial plates being located substantially adjacent the hinge axis of the cover and, with the cover closed, inside said box, a flange directed outwardly from the other radial edge of each plate, and catches mounted substantially adjacent the forward edges of the opposite side walls, respectively, of said container, and each such catch having a slot receiving, and thereby releasably detaining, the out-turned flange of the corresponding brace, when the hinged cover is swung open into generally horizontal position, and thereby holding the cover rigidly in such position, against further opening, or closing.

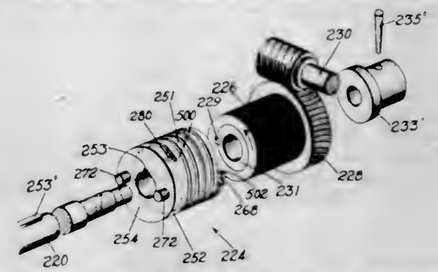
2,615,542
CLUTCH AND BRAKE FOR STEERING VEHICLES
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application July 28, 1947, Serial No. 764,185
4 Claims. (Cl. 192—13)



1. In combination with a vehicle which includes traction members on each side thereof, a driven shaft connected in driving relation with said members, said driven shaft including a pair of fluid pressure applied clutches, a source of fluid under pressure, a valve, a single operating lever connected with and effective to operate such valve, the valve being provided with an inlet port and an exhaust port, a conduit leading from the source of fluid to said inlet port, a separate conduit leading from the valve to each clutch, the valve being provided with a port in communication with said inlet port and lying in communication with both of the clutch conduits in one position of the lever, the valve being responsive to movement of the lever in one direction to move said last named port out of communication with one of the clutch conduits and open communication between said last named clutch conduit and the exhaust port; fluid pressure released brakes on the traction members, the valve being provided with a second inlet port, a conduit leading from the fluid source to the second inlet port, a conduit leading from each of the brakes to the valve, the valve being provided with a port in communication with the second inlet port and lying in communication with both brake conduits when the lever is in said one position, said valve being responsive to the movement of said lever in said one direction from said first position to move the port, which is in communication with the second inlet port, out of communication with one of the brake conduits, and a separate valve means operative to then vent the other brake conduit to atmosphere.
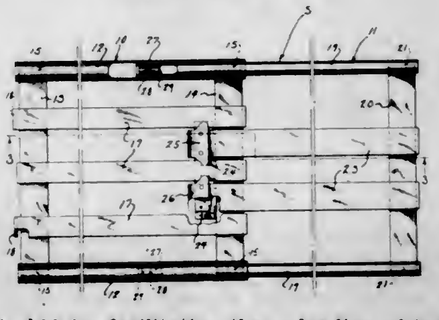
2,615,543
SPRING TYPE CLUTCH
Mieth Maeser, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 8, 1948, Serial No. 13,631
1 Claim. (Cl. 192—41)

A coil spring clutch comprising a pair of drive transmitting members, one of which is a drum, and a coil spring having one of its ends secured to the other member and its opposite end free of both members, said spring being frictionally engageable with said drum to cause one member to drive the other, said drum having two sets of grooves which intersect to provide isolated lands, one set of grooves extending parallel to the axis of the drum and the other set running helically around the drum, the grooves of both sets being V-shaped in cross section to provide sloping walls and being deeper at that end of the drum which is adjacent to the free end of the spring than at the other end, whereby the lands adjacent to the free end of the spring will present smaller



individual bearing areas to the spring than the lands adjacent to the secured end of the spring.

2,615,544
UNLOADING DEVICE
Frank J. Rynders, Milwaukee, Wis.
Application March 15, 1950, Serial No. 149,782
1 Claim. (Cl. 193—38)

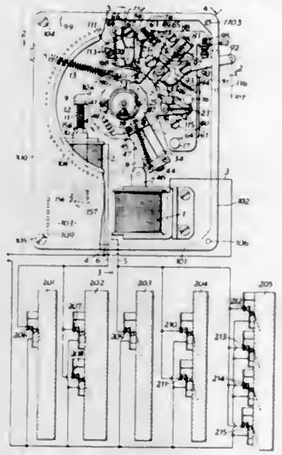


A skid for facilitating the unloading of trucks and the like comprising inner and outer slidably connected sections, each of said sections including hollow side rails with the rails of the inner section telescoping within the rails of outer section, and means for automatically locking the sections in an extended operative position against accidental movement relative to one another including longitudinally extending weights loosely fitted in the hollow rails of the inner section, said rails of the inner section having openings, right angularly extending tumblers secured to the weights and movable in the openings at all times, the walls of the openings forming guides for the tumblers and for preventing longitudinal shifting of the weights, the side rails of the outer section also having openings therein adapted to register with the openings in the rails of the inner section when the sections are in their full extended operative position, whereby said tumblers will ride into the openings of the side rails of the outer section, the weights being of a smaller diameter than the rails, whereby when the skid is turned over with its lower face uppermost the tumblers will ride out of the openings in the rails of the outer section.

2,615,545
COIN COMPUTING DEVICE FOR COIN-CONTROLLED VENDING MACHINES
Henry James Dolman, Staple Hill, Bristol, England, assignor to Brecknell, Munro & Rogers Limited, Bristol, England, a British company
Application March 30, 1945, Serial No. 585,623
In Great Britain April 3, 1944
6 Claims. (Cl. 194—9)

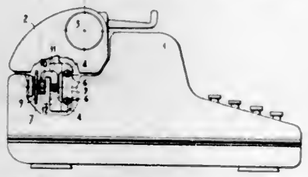
1. In coin controlled apparatus, a coin computing device comprising a totaliser, a reciproca-

tory member for imparting uni-directional movement to the totaliser, a non-return member that normally engages the totaliser to prevent return motion thereof, means dependent on the passage of coinage into the coin controlled apparatus for driving the reciprocatory member whereby the totaliser is displaced from its initial position in accordance with the total value of the coinage inserted, biasing means tending to return the totaliser to its initial position, a disengaging member that is normally clear of the non-return member, means dependent on the operation of



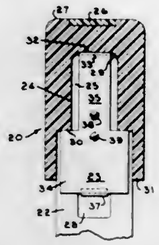
the coin-controlled apparatus for displacing said disengaging member so that it disengages the non-return member from the totaliser, a detaining member adapted normally to hold the disengaging member when the latter is thus displaced, and means on the totaliser for moving the detaining member clear of the disengaging member when the totaliser has returned to its initial position, whereby said disengaging member then again moves clear of the non-return member and the latter then re-engages the totaliser.

2,615,546
MEANS FOR CHANGING THE DIRECTION OF CARRIAGE MOVEMENTS IN TYPEWRITERS
Enzo Ascoli, Yverdon, Switzerland, assignor to Paillard S. A., Sainte-Croix, Switzerland, a corporation of Switzerland
Application July 22, 1949, Serial No. 106,173
In Switzerland April 27, 1949
9 Claims. (Cl. 197—82)



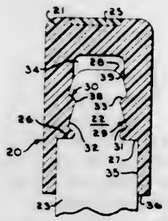
1. A typewriter comprising a framework, a carriage movably mounted in said framework, a platen mounted on said carriage, a rack on said carriage, a pinion rotatably mounted in said framework and engaging with said rack, and means reversibly securing said rack to said carriage, said securing means mounting said rack in either of two symmetrical positions relatively to said pinion so as to modify the direction of movement of said carriage.

2,615,547
KEYBOARD KEY
Jon E. Grobl, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application October 28, 1949, Serial No. 124,011
7 Claims. (Cl. 197—102)



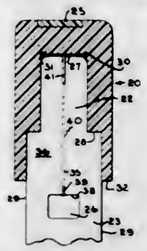
1. In a keyboard key assembly, the combination which comprises a relatively rigid key stem having an aperture in the top portion thereof, a plastic control button having limited pressure flow characteristics at normal room temperatures, and a removable metallic clip inserted between the key stem and the plastic button, the said clip being anchored at its upper end to said key stem and having a hook on its lower end anchored to the said key stem by engagement with the peripheral surface of the said aperture, the said clip having laterally outwardly extending protrusions thereon plastically deforming the interior configuration of the said button in such a manner as to establish an intimate contact with the coacting surface of the said clip and form an effective shear-resisting engagement with the said protrusions.

2,615,548
KEYBOARD KEY
George W. Hopkins and Donald L. Rolph, San Leandro, Calif., assignors to Friden Calculating Machine Co., Inc., a corporation of California
Application October 28, 1949, Serial No. 124,074
12 Claims. (Cl. 197—102)



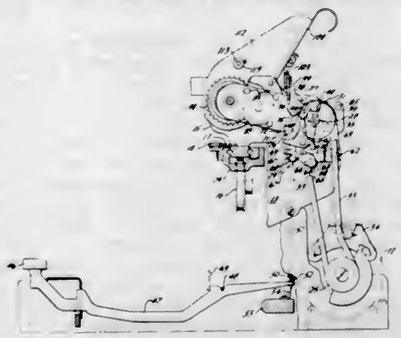
3. In a key operated device, the combination which comprises a manually depressible key stem having an upwardly extending top portion composed of relatively inelastic material, a set of streamlined wedges on opposing edges of the top portion of the said key stem, the wedges in each set having a periodic and continuously curved contour, and a slightly elastic finger button having an upwardly extending recess therein interlockingly engaged with the wedges of the said top portion at normal room temperatures and securely retained in place on the said top portion without the necessity of moulding the said button to the said key stem.

2,615,549
KEYBOARD KEY
Chester K. Marlow, Oakland, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application October 28, 1949, Serial No. 124,095
5 Claims. (Cl. 197—102)



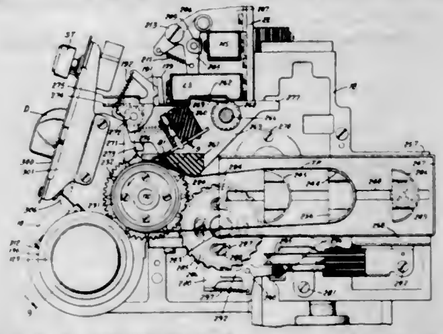
1. In a keyboard key assembly, the combination which comprises a key stem having an aperture in the top portion thereof, a rodlike securing member extending between and anchored by the said aperture and the uppermost extremity of the said key stem with an integral prong extending outwardly and angularly downward therefrom, and a slightly elastic finger button pressure-fitted onto the said key stem thereby compressing the said prong to effectively lock the said finger button in a predetermined position thereon as the said prong is resiliently urged outwardly so as to become imbedded within the slightly elastic material within the interior of the said button.

2,615,550
FORM FEEDING MECHANISM FOR TYPEWRITERS
Arthur H. Sharpe, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application June 19, 1948, Serial No. 34,034
11 Claims. (Cl. 197—133)



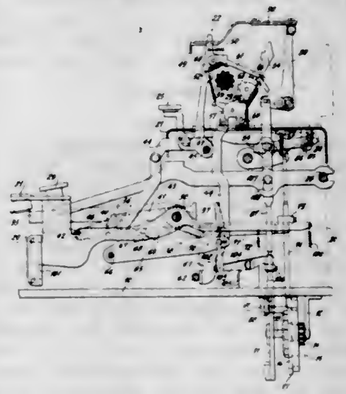
9. In a machine of the class described having a paper-feeding roll and a turning member for said roll, means constantly connected to said member and operable to impart rotative movements thereto which will place such roll in any one of a number of evenly spaced rotative positions, said operable means including an element which is given a single revolution for imparting each of said rotative movements to said roll, a circular array of teeth associated with said roll for rotation concentrically therewith, said teeth circularly spaced in conformance with the rotative positions of the roll, and means responsive to said element near the conclusion of each revolution thereof to move into the path of said teeth for roll-stopping coaction with one of said teeth, and responsive to said roll-stopping coaction with any of said teeth to move automatically clear of the path of said teeth and permit impartation of a new rotation to said element.

2,615,551
PAPER FEEDING DEVICE
Albert W. Mills, Point Pleasant, N. J., and Frank J. Furman, Endicott, and Edward J. Rabenda, Poughkeepsie, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application August 9, 1945, Serial No. 609,854, now Patent No. 2,531,885, dated November 28, 1950. Divided and this application March 11, 1950, Serial No. 149,163
2 Claims. (Cl. 197—133)



1. In a device for controlling the feed of a record strip, a platen for supporting said strip, a main operating means, a clutch between said platen and said operating means, a magnet for operating said clutch, means for energizing said magnet to initiate line spacing, a pair of circuit breaker ratchet wheels, gearing between said wheels and said platen to synchronize them, a set of contacts operated by said wheels to close after each line space movement, a relay with circuit connections to said contacts, and means under control of said relay for deenergizing said magnet to declutch the platen after a line space movement.

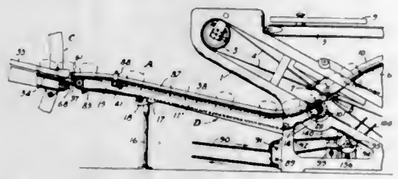
2,615,552
TABULATING MECHANISM
Elmer L. Wise, Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware
Application February 4, 1950, Serial No. 142,438
7 Claims. (Cl. 197—178)



1. In a typewriter having a space bar, an escapement mechanism, and power means con-

trolled by said space bar to momentarily release said escapement mechanism, the combination of a plurality of keys, means operated by each of said keys to control said power means to release said escapement mechanism, a member yieldably connected to said key operated means and operable thereby to retain said escapement mechanism released, and cooperative abutments on said key operated means and said member to restore said member upon release of said key operated means.

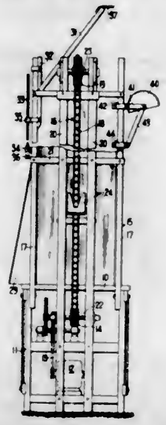
2,615,553
ARTICLE CONVEYER AND TRANSFER MECHANISM
Arthur A. Kottmann, Davenport, Iowa, assignor to The Bettendorf Company, Bettendorf, Iowa, a corporation of Maryland
Application March 11, 1949, Serial No. 80,878
13 Claims. (Cl. 198—27)



13. Article handling apparatus comprising a transfer conveyor having an apron and uniformly spaced flights traveling over its apron, a receiving conveyor having an apron and uniformly spaced flights traveling over its apron, a transfer platform supported beyond the discharge end of the transfer conveyor apron and overlying the apron of the delivery conveyor and movable from a receiving position clear of the flights of the receiving conveyor to a discharging position in the path of the delivery conveyor flights, means for oscillating said platform, a drive means interconnecting said conveyors and said platform oscillating means for operating the flights thereof synchronously and for moving said platform in timed relation to the movements of the flights, said drive means including a clutch governing the operation of the transfer conveyor and platform oscillating means and having relatively rotatable parts engageable only in predetermined relative successive rotative positions corresponding to movements of the transfer conveyor equivalent to its flight spacing, control means operative to disengage the clutch parts, and means restricting operation of the control means substantially to a predetermined rotative position of the engaged clutch parts in which the said platform is positioned clear of the flights of the receiving conveyor.

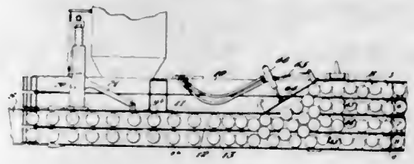
2,615,554
VERTICAL BALE ELEVATOR
Gilbert H. Huber, Crestline, Ohio
Application May 4, 1950, Serial No. 159,975
9 Claims. (Cl. 198—28)

1. A baled hay elevator comprising a perpendicularly disposed shaft, an endless chain extending vertically at one side of said shaft and having bale-engaging members projecting into the shaft, a vertical bearing plate at the opposite side of the shaft for engaging the opposite side of the bales, an inlet opening at the lower end of the shaft and at the forward side thereof, the rear side of the shaft at its upper end being provided with a discharge opening, a deflector mounted on the upper portion of the shaft and projecting into the shaft towards the rear side of the shaft where said discharge opening is



provided for deflecting bales from the shaft through said opening, and means for mounting said deflector for vertical movement on the shaft.

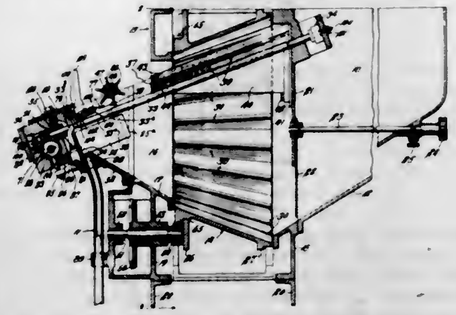
2,615,555
ARTICLE DISTRIBUTOR FOR CONVEYERS
Sidney T. Carter, Worcester, Mass., assignor, by mesne assignments, to Geo. J. Meyer Manufacturing Co., Cudahy, Wis., a corporation of Wisconsin
Application August 12, 1948, Serial No. 43,827
24 Claims. (Cl. 198—30)



1. In combination, in apparatus of the class described, a plurality of fixed parallel guides defining paths for articles, a smooth-surfaced conveyor operative to move articles simultaneously along all of said paths, a movable support operative to advance a mass of articles toward the entrances to said paths, means for agitating the articles as they approach said entrances thereby to facilitate their entry into the several paths, means including a slip clutch for actuating the agitating means, and means operative temporarily to discontinue the advance of articles toward said entrances in response to the presence of an abnormal accumulation of articles within the field of operation of the agitating means.

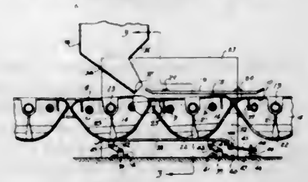
2,615,556
APPARATUS FOR ORIENTING AND ALIGNING CYLINDRICAL-SHAPED ARTICLES
Penrose R. Hoopes and Gunnar C. Froelich, Philadelphia, Pa., assignors to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application September 11, 1945, Serial No. 615,564
5 Claims. (Cl. 198—33)

3. In apparatus for feeding elongated articles open at least at one end thereof, mechanism providing an inclined path of movement for the articles, means to deposit articles onto the path of movement at a first region thereof without regard to the precise position the articles take thereon, said mechanism including a pair of elongated members and means to rotate said members to cause downward movement of the articles along said inclined path with the aid of gravity, said members being spaced for first receiving and supporting the articles thereon in lengthwise positions at the first region and being spaced so that the articles at a second region of the path of movement shift from the length-



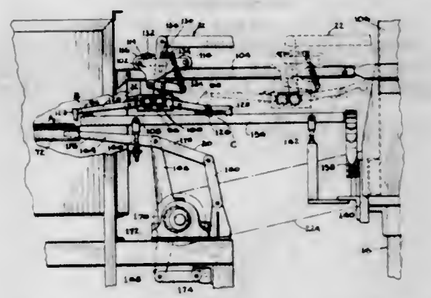
wise positions, irrespective of which ends are leading, to vertically suspended positions having similar ends pointed down to orient the articles and being spaced to thereafter release the articles at a third region of the path of movement, and reciprocating means at the second region of the path of movement to engage articles still in lengthwise position to separate a pair of articles jammed at their open ends and moving in lengthwise positions in said path from the first region.

2,615,557
BUCKET CONVEYER STRUCTURE
Henry W. Hapman, Detroit, Mich., assignor, by mesne assignments, of sixty per cent to Henry W. Hapman and forty per cent to Hannah J. Hapman, both of Detroit, Mich.
Original application March 18, 1944, Serial No. 527,036. Divided and this application July 30, 1948, Serial No. 41,512
8 Claims. (Cl. 198—56)



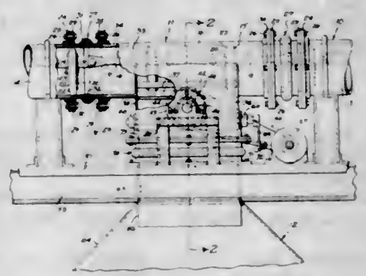
1. A conveyor structure comprising a pair of spaced conveyor chain guide members, a pair of conveyor chains arranged in supporting engagement with said guide members, conveyor buckets supported by said conveyor chains, a material loader arranged adjacent the path of travel of said buckets and having a material discharge portion inclined downwardly and rearwardly in a direction opposite to the direction of conveyor travel, and bucket-tilting mechanism disposed adjacent said material loader and engageable with each bucket in response to its arrival beneath said loader and adapted to tilt said arriving bucket and elevate the lip of the trailing edge thereof while depressing the lip of the leading edge of the next succeeding bucket, each pair of buckets arriving beneath said material discharge portion being momentarily tilted forwardly into a position where the plane including the lips of the said pair of buckets is inclined from the horizontal at a greater angle than the path of the material as it enters the buckets whereby said elevated edge shields the gap between adjacent buckets against loss of material falling through said gap during delivery from said material holder discharge portion into said buckets.

2,615,558
CONVEYER MECHANISM FOR SPRING CAMBERING MACHINES
George R. Reed, Grosse Pointe Park, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 12, 1946, Serial No. 715,747
6 Claims. (Cl. 198—221)



3. Mechanism for conveying an article during the manufacture thereof from one stage of operation to another comprising a track upon which the article is moved, a track suspended in substantially parallel relation to and disposed vertically away from the first track, a carriage mounted for movement along the second track having a pair of arms pivoted therein for movement toward and away from the second track, article engaging means on the free end of each of the arms, gear intermeshing means on the pivot axis of the arms, means connected to the axis of one arm and engageable with the carriage for simultaneously pivoting the arms and moving the carriage along the track, and means for limiting the pivotal movement of the arms.

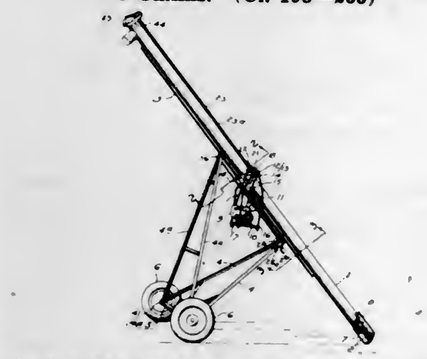
2,615,559
MATERIAL-REMOVING DEVICE FOR CONVEYERS
Henry W. Hapman, Detroit, Mich., assignor, by mesne assignments, of sixty per cent to Henry W. Hapman and forty per cent to Hannah J. Hapman, both of Detroit, Mich.
Application October 26, 1946, Serial No. 705,942
15 Claims. (Cl. 198—229)



13. A material removing device for a flight conveyor traversing a conduit system having a pair

of stationary conduits disposed with ends adjacent one another in spaced relationship with a gap therebetween, said device comprising a movable conduit movably mounted in said gap in said conduit system and traversed by said flight conveyor, flexible couplings connecting said movable conduit to said adjacent ends of said stationary conduits, conduit-vibrating mechanism including a support and a rotatable eccentric member journalled in said support and engageable with said movable conduit to vibrate the same bodily relatively to said stationary conduits, and a power source drivingly connected to said vibrating mechanism, said movable conduit having a discharge aperture therein with a guide member disposed lengthwise thereof across said discharge aperture and guidingly engaged by said flight conveyor.

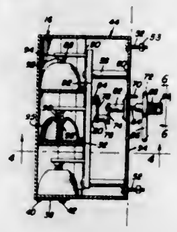
2,615,560
PORTABLE AUGER TYPE LOADER
George A. Robinson, Calgary, Alberta, Canada
Application March 25, 1950, Serial No. 151,945
In Canada December 12, 1949
3 Claims. (Cl. 198—233)



1. A grain loader comprising in combination with an elongated tubular housing and a rotary auger, means for adjusting the angularity of said housing relative to the ground, said means comprising a wheelable supporting assembly, and a pair of rails longitudinally attached to the underside of said housing in spaced parallel relationship one with the other, co-actable with said assembly, said assembly including a pair of leg frames, a ground wheel axle freely connecting the lower ends of said leg frames for independent rotation in a vertical plane, the upper ends of each of said leg frames converging towards a common apex, roller means connected to the upper ends of said leg frames and engageable with said rails for facilitating the movement of said upper ends in parallel proximity to said rails, means for decreasing or increasing the angle between said leg frames and means for clamping one of said leg frames to said rails at a selected position therealong, thereby controlling the range of varying inclination of said housing to the ground.

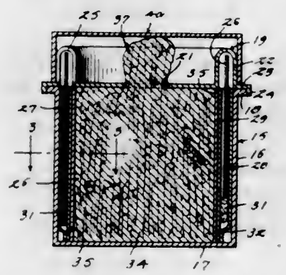
2,615,561
FLARE HOUSING WITH SIMULTANEOUSLY OPERATED WICK HOOD CAPPING MEANS ON CLOSURE
William O. Pajuoja, Deer River, Minn., assignor of one-half to Charles A. Voigt, Deer River, Minn.
Application June 6, 1950, Serial No. 166,437
4 Claims. (Cl. 206—1)

1. A device for supporting a plurality of self uncapping road flares on a vehicle comprising: A housing having an open side, a closure for said open side, a plurality of shelves secured to a side wall of said housing for supporting individual flares of the type having spring urged wick hoods, vertical guide means mounted on said closure, a slide member reciprocably mounted on said guide means, a plurality of cap straps fixedly



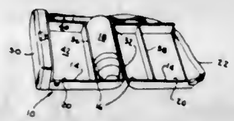
secured to said slide member in spaced relation to each other and having their outer ends overlying said shelves in vertically spaced relation thereto, a cap secured to said outer end of each of said cap straps for engaging each of such wick hoods for retention thereof, and actuating means for simultaneously displacing said caps from such wick hoods.

2,615,562
SWAB HOLDER AND DISPENSER
Adolph Martin Rothbardt, Chicago, Ill.
Application August 23, 1950, Serial No. 180,999
3 Claims. (Cl. 206—1)



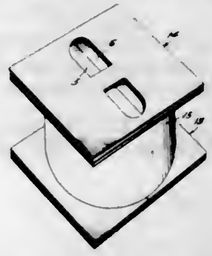
1. In a device of the character described, a cylindrical container including spaced inner and outer walls and a bottom wall, the interior of said inner wall defining a cotton-containing receptacle and the space between said walls defining a swab holder containing receptacle, a unitary swab holder in said last-mentioned receptacle comprised of a corrugated sheet and a flat sheet fixed to one side of said corrugated sheet to form swab stick holding pockets, closure means comprised of an upwardly turned portion of said corrugated sheet for one end of each pocket, a swab stick of a length in excess of the depth of said pockets removably positioned in at least one of said pockets, a cover rotatably mounted on said container, said cover including a central plate having an aperture therein for permitting access to said first-mentioned receptacle, a hollow bead of inverted U-shaped cross-section of a depth sufficient to accommodate the projecting portion of said swab stick surrounding said plate, and a coinciding cross-sectional cutout portion extending transversely of said bead and radially of said plate rotatable to selectively expose one of said pockets for withdrawal of a swab stick therefrom.

2,615,563
COMBINATION LUNCH KIT AND HANDBAG
Carl W. Sundberg, Birmingham, and Montgomery Ferar, Huntington Woods, Mich.
Application October 30, 1950, Serial No. 192,848
4 Claims. (Cl. 206—4)



1. A lady's general utility case comprising an inverted L-shaped section having a compartment in its cross member and with the leg thereof being hollow and open on the inner side, another section hingedly connected with the inverted L-shaped section along the respective lower edges of the sections, the second-named section being hollow and open on the side adjacent the first-named section with the edges of the respective open sides being in abutting relationship to form a compartment under the compartment in said cross member, and substantially horizontally disposed walls formed in each of said sections an equal distance above the hingedly connected edges to form two chambers within the second-named compartment.

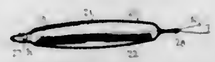
2,615,564
PACKET FOR SPOOLS
James D. Post, Bethel, Conn., assignor to Republic Foil and Metal Mills, Incorporated, Danbury, Conn., a corporation of Delaware
Application July 30, 1951, Serial No. 239,297
2 Claims. (Cl. 206—59)



1. A packet for spools which comprises in combination a spool, two square end pieces of double-thickness resilient wrapping material having centrally mounted pairs of tongues, having a width substantially that of the inner diameter of the central bore of the spool and a length not more than half the length of the bore, and having centrally mounted tabs mounted between and at right angles to said tongues with a width corresponding to the distance between the tongues and a length less than half the diameter of said central bore; said end pieces being secured to the ends of the spool by means of said tongues and tabs, the tabs spacing the tongues so that the latter frictionally engage the inner wall of said central bore.

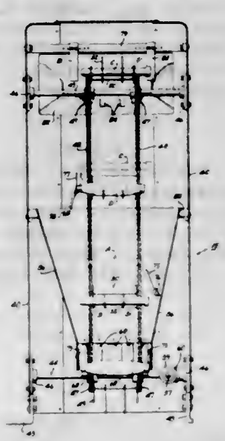
2,615,565
SUTURE PACKAGE AND METHOD
John O. Bower, Wyncote, and John P. Tarbox, Philadelphia, Pa.; said Tarbox assignor to said Bower
Application January 9, 1947, Serial No. 721,100
7 Claims. (Cl. 206—63.3)

1. A suture package of disk-like configuration, said package comprising two complemental abutting disk-like elements at least one of which is provided with a convex suture-housing offset, said complemental elements being composed of relatively rigid thermoplastic material and being circumferentially bonded to each other by fusion of such material along an annular juncture line,



said complemental members further being provided with opposed rigid fulcrum means lying in the general plane of the package and projecting radially beyond the juncture line for prying said members apart, said package further containing a surgical suture within said convex offset.

2,615,566
ARTICLE SORTING CONVEYER UNIT
Harold W. Ball and Ferdinand F. Stange, Westfield, Mass., assignors to Foster Machine Company, Westfield, Mass., a corporation of Massachusetts
Application March 9, 1948, Serial No. 13,858
19 Claims. (Cl. 209—72)

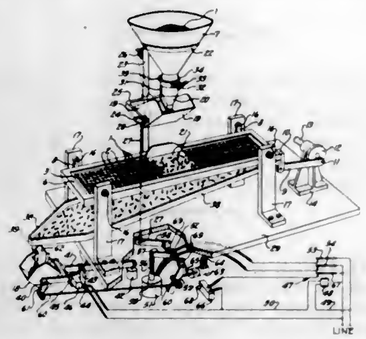


1. Article sorting apparatus comprising a conveyor including means for individually supporting thereon a plurality of articles about their periphery intermediate the ends thereof, means for driving said conveyor, a plurality of pressure exerting means disposed on opposite sides of and in the path of said conveyor and acting first on one end and then on the other end of the articles, one of said pressure exerting means exerting yielding pressure for staggering the supported articles relative to each other in accordance with the presence or absence of wound material on the exterior thereof, and means disposed in the path of the staggered articles for causing said conveyor to discharge the staggered articles therefrom into separate paths in response to movement of said conveyor.

2,615,567
SORTING APPARATUS
John A. Campbell, East Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application May 29, 1948, Serial No. 29,985
4 Claims. (Cl. 209—73)

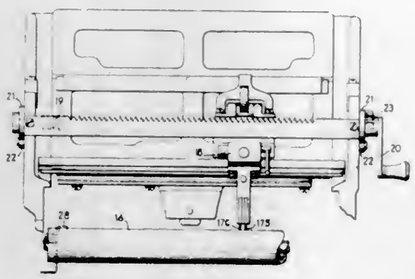
1. Apparatus for sorting pin-like cylindrical articles comprising a tray having a multiplicity of openings therethrough permitting the end-

wise passage of acceptable articles and restricting the passage of deformed articles, feeding means including a tiltable bucket above said tray for periodically delivering a quantity of articles to the upper surface of the tray, means for agitating the tray, means located below the



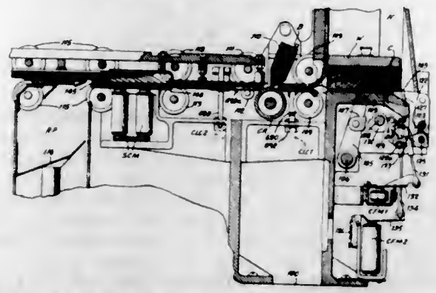
tray including a second tiltable bucket for receiving the cylindrical articles, and means connected to both of said buckets and actuated by an accumulation of a predetermined weight of articles in said second bucket for momentarily tilting both of the said buckets to discharge the articles therefrom.

2,615,568
SORTING MACHINE
Jack J. Constance, Bartlesville, Okla., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 17, 1948, Serial No. 33,585
1 Claim. (Cl. 209—110)



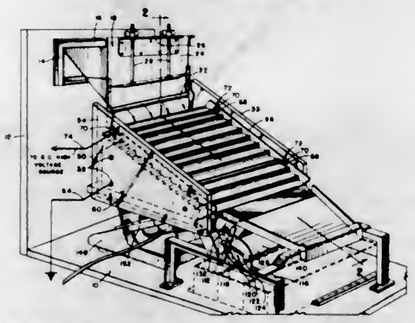
In a sorting machine having a pair of adjacent sensing elements, means for feeding a succession of record cards past said elements, whereby each card is sensed simultaneously by both sensing elements, said cards each having a pair of columns in which data are represented by designations differentially located therein, and said pair of sensing elements each traverse one of said card columns, sorting mechanism controlled by one of said elements as each card passes the said one element for sorting the cards in accordance with the location of the designation in the related column of the passing card, checking mechanism controlled solely by the other of said elements as each card passes said other element for ascertaining whether the data therein has a predetermined sequential relationship with data in the same column of a preceding card, and means controlled thereby upon detection of a variance in said relationship for preventing further operation of said sorting mechanism.

2,615,569
RECORD CONTROLLED MACHINE
Clair D. Lake and Benjamin M. Durfee, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 31, 1949, Serial No. 73,844
4 Claims. Cl. 209—110)



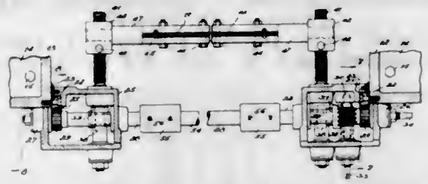
1. In a record distributing machine, means to feed records having data representations, means to analyze said representations, record distributing mechanism including means for diverting records to different destinations under control of said representations, destination determining storage means set under control of said analyzing means, means controlled by the record after it has been diverted to designate its actual destination, means to compare the actual destination as indicated by the manifesting means with the selected destination as designated by the storage means, and means to mark a record whose actual destination is different from the selected destination.

2,615,570
MIDDLINGS PURIFIER
Creighton H. Morrison, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application August 12, 1949, Serial No. 109,886
23 Claims. (Cl. 209—129)



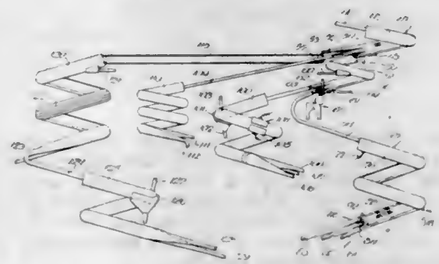
1. An electrostatic separator comprising substantially parallel inclined upper and lower electrodes, the upper electrode having a plurality of openings therein through which material attracted from the lower electrode may be projected onto the upper surface of the upper electrode and the lower electrode having on its upper surface a series of transverse steps down which the material to be separated may be fed, means for feeding a thin uniform stream of the material down across said steps between the electrodes, means for maintaining a difference of potential between the electrodes, and means for collecting separately the material discharged from the respective electrodes.

2,615,571
DIVIDER BLADE MECHANISM FOR MATERIALS SEPARATING MACHINES
Ralph H. Johnson, Rochester, N. Y., assignor, by mesne assignments, to The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
Application May 18, 1946, Serial No. 670,701
12 Claims. (Cl. 209—130)



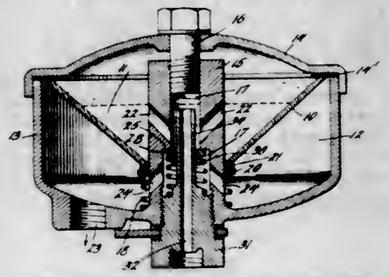
11. An electrostatic machine for separating materials having different electrostatic susceptibilities, comprising a frame having an elongated electrode, an elongated divider blade in spaced parallel relation to said electrode, a housing associated with each end of said blade, adjusting means in said housings having connections with the ends of said blade, respectively, for supporting and adjusting the same in one direction relative to said electrode, adjusting means in said housings having connections with said frame for supporting and adjusting said housings and the first mentioned adjusting means in another direction relative to said electrode, a common actuating element connected with the blade adjusting means of said housings, a common actuating element connected with said housing adjusting means, and means for operating said elements to effect simultaneous equalized adjustment of the ends of said blade in each of said directions.

2,615,572
SPIRAL SEPARATOR
Edwin T. Hodge, Portland, Oreg.
Application August 26, 1946, Serial No. 692,954
7 Claims. (Cl. 209—211)



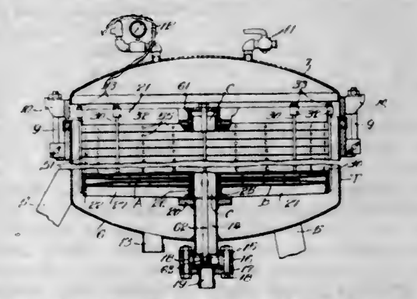
1. The method of separating materials comprising flowing a source mixture in a spiral channel suited to said mixture subject to the influences of gravity and centrifugal force to distribute said materials in the channel in accordance with their responses to said influences and establish a regimen of steady flow, dividing said flowing materials according to the positions of their flow paths in the channel into separate parallel flowing components without disturbing the regimen of flow, leading off said separate components in individual tangential channels while maintaining the regimen of flow of each component, directing at least one of said components into a second spiral channel specifically suited to the type and quantity of material of that particular component while maintaining the regimen of flow during transfer to the second spiral channel, and dividing the flow in the second spiral channel into sub-components.

2,615,573
OIL FILTER
Frank E. Storey, Grosse Pointe Woods, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 22, 1948, Serial No. 61,426
4 Claims. (Cl. 210—166)



4. A filter comprising a casing defining a chamber having a liquid outlet opening, a filter element dividing said chamber into liquid receiving and liquid collecting spaces, a central core in said casing having an inlet passage with ducts leading from said passage to both said spaces and a valve seat intermediate said ducts, a cylindrical liquid inlet fitting extending into said passage and an annular valve guided on said fitting and defining therewith a channel which permits a constant flow of liquid between said valve and fitting, a valve closure element normally positioning said valve against said seat preventing substantial liquid flow from said passage through one of said ducts to said collecting space, and permitting substantial liquid flow to said last named space when pressure in the receiving space becomes excessive.

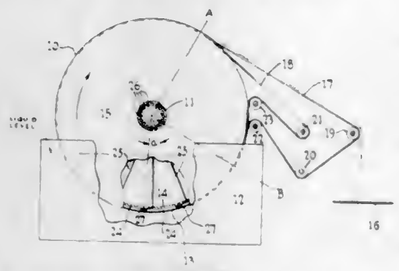
2,615,574
HORIZONTAL PLATE FILTER
Aloysius C. Kracklauer, Mundelein, Ill.
Application September 9, 1950, Serial No. 184,013
11 Claims. (Cl. 210—181)



1. In a filter apparatus of the type wherein is a tank providing a fixed mounting for a pair of removable horizontal foraminous plates and means to space them apart at all points except at their outer peripheries where they are free to interengage, and wherein is an upstanding tubular column traversing each of the foraminous plates and in communication with the space therebetween, the improvement which comprises a pair of superposed ported clamping rings disposed to the outside of the foraminous plates in

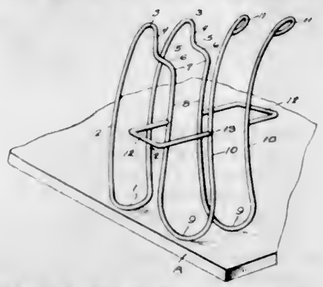
close proximity to their outer free interengaging peripheries and entirely radially beyond the outer peripheries of the perforated plates, said plates having spaced approximately horizontal medial portions and converging outer portions and the confronting top and bottom faces of the clamping rings lying in a horizontal plane substantially coincident with the plane which intervenes between the plates at their peripheries, a sheet of filtering material overlying each plate for its full area upon the face thereof that is remote from the other plate, the peripheral portions of the two sheets being extended beyond that of the plates to lie between the confronting faces of the clamping rings, and means for holding one clamping ring tightly against the other to compress therebetween the peripheral portions of the sheets engaged thereby beyond the interengaging outer peripheries of said plates, the arrangement being such that liquid moving through the ported rings is required to pass through the filtering sheets to enter into the space between the foraminous plates en route to the tubular column.

2,615,575
CONTINUOUS ROTARY FILTER
Arthur Wright, Upper Montclair, N. J.; Anna Rose Wright executrix of said Arthur Wright, deceased
Application October 29, 1946, Serial No. 706,437
3 Claims. (Cl. 210—199)



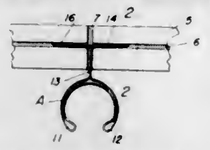
1. A continuous rotary drum filter comprising a drum having a succession of angularly extending vacuum chambers around its circumference, a group of cords spaced from one another axially around the drum and extending around a substantial portion of the circumference of the drum, a second group of cords extending around a substantial portion of the drum circumference, outside of the cords of the first group, each of the cords of the second group bridging the space between two successive cords of the first group and overlying a portion of each of the cords on opposite sides of said space, vacuum seals between the successive chambers, each of said seals including two holder elements extending across substantially the entire length of the drum and extending substantially parallel with one another but with their confronting faces forming a dove-tail groove and with their upper edges scalloped and so correlated with the cords that depressions of the scalloped edges underlie the individual cords of the first group and high points of the scalloped edges underlie the individual cords of the second group, and a solid resilient deformable sealing member having an uncompressed circumferential width greater than the minimum width of the dove-tail groove, said sealing member being held on the drum by the dove-tail groove and extending above the scalloped upper edges of the holder, and said sealing member being constructed of soft material which is deformed by the cords to fill the spaces under the cords of the second group and between the cords of the first group to provide a vacuum seal under the cords and between the successive vacuum chambers.

2,615,576
FILING AID
Etha A. Dahlgren, Washington, D. C.
Application October 17, 1947, Serial No. 780,557
1 Claim. (Cl. 211—50)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



An aid for filing papers comprising a length of wire doubled upon itself, said doubled wire being bent adjacent its free ends to provide a pocket having front and back walls and a bottom, a substantially horizontal spacer portion extending rearwardly from the top of the rear wall, substantially vertical extensions extending upwardly from the rear end of the spacer portion, and a leg formed of the doubled portion of the wire and extending downwardly from the upper ends of the vertical extensions and terminating in the plane of the bottom of the pocket.

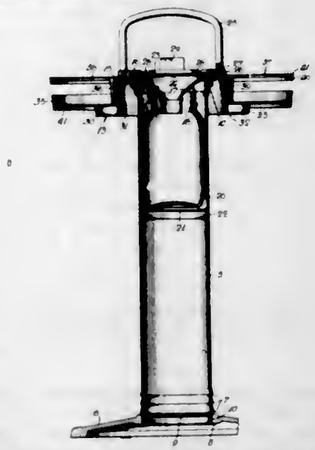
2,615,577
TOOL RACK
Richard Bartleman, San Francisco, Calif.
Application November 27, 1950, Serial No. 197,809
1 Claim. (Cl. 211—60)



In a tool rack having a slotted supporting bar, a holder comprising a strip bent upon itself to form resilient, opposed tool-engaging arms, the ends of said strip extending rearwardly in parallel relation and having their free ends bent at right angles to each other to form a non-tipping slot-engaging supporting member.

2,615,578
SMOKING STAND
Onnie Mankki, Cleveland, Ohio, assignor to Smokador Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware
Application July 17, 1946, Serial No. 684,370
3 Claims. (Cl. 211—74)

1. In a smoker's stand, a base, a standard carried thereby, an annular shelf member fixed to and skirting the top of said standard, said shelf member including a downwardly extending circular wall around said standard and a peripheral trough at the lower end of said wall, generally circular table means with a central opening to be located by said wall and deriving vertical support from said shelf, and glass-retaining means including a plate with a central opening to locate the glass retaining means concentrically with said table means, one of said two last-defined means identified as table means and glass retaining means including circumferentially extending axially projecting spacer means to abut the other of said two last-defined means to space said glass retaining means vertically above said table means.



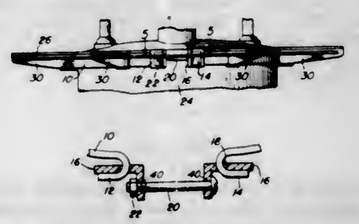
3. In a smoker's stand, a base and a standard carried thereby, an ash receiver carried by said standard, an annular wall carried by said standard and surrounding said ash receiver, a generally outwardly extending bottom wall at the lower end of said annular wall, and an upwardly extending annular flange at the periphery of said bottom wall, said annular and bottom walls and said annular flange defining an annular trough about said ash receiver and located below the latter to catch and retain any cigar or cigarette butts falling outwardly from said ash receiver.

2,615,579
NECKTIE RACK
Sam Sampson, Hewlett, N. Y., assignor to Swank, Inc., a corporation of Delaware
Application July 12, 1949, Serial No. 104,330
1 Claim. (Cl. 211—100)



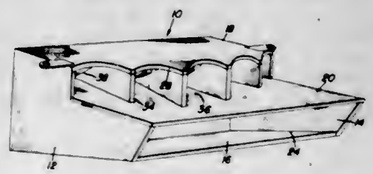
A necktie rack comprising a bracket adapted to be secured to a wall and provided with ears extending outwardly from the wall engaging portion thereof, an arm positioned between and pivotally mounted by said ears, a crossbar carried by said arm over which ties may be positioned, a plurality of pairs of spring pressed balls carried by said arm and urged outwardly toward said ears a spaced distance apart, said ears having openings with at least a pair of openings in each ear being spaced the same distance as said balls and located to receive a pair of balls when the arm is in horizontal position and another opening in each ear is positioned a different distance from any other opening than the distance between a pair of balls and is located to receive a single ball when the arm is in vertical depending position whereby less force is required to detach the balls from locking position when the arm is vertical than when horizontal.

2,615,580
CLOTHES HANGER
Frank Edward Tripp, Fort Worth, Tex.
Application September 9, 1948, Serial No. 48,385
1 Claim. (Cl. 211—107)



A clothes hanger comprising a split resilient ring for mounting on a support, out-turned hooks on the ends of said ring, angle members, each having a slot in one leg receiving the hooks for mounting said members thereon, said members having apertures in their other legs, a bolt engaged in the apertures and connecting the members for clamping the ring on the support, radial braces mounted for sliding adjustment on the ring, and a support ring mounted on the free end portions of said braces.

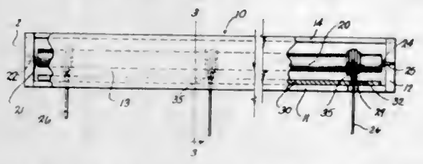
2,615,581
PIPE HOLDER
William A. Sigrist, Madison, Wis.
Application March 3, 1950, Serial No. 147,459
1 Claim. (Cl. 211—114)



A pipe holder comprising a housing including a top, bottom and side walls and having an open back, said bottom wall being longer than said top wall to provide a bowl supporting ledge, vertical spaced plates connecting said bottom and top walls and dividing the housing into a plurality of compartments, and an arcuate leaf spring in each compartment secured at one of its ends to the inner surface of said top wall adjacent its forward edge and adapted to yieldingly retain a pipe stem in each compartment, the forward edge of said top wall between said plates in-

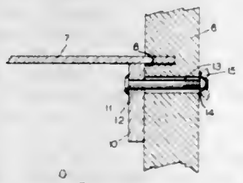
cluding arcuate recesses for engaging pipe bowls to limit the lateral and inward movement of the pipes.

2,615,582
CLOTHESLINE CONTAINER
Einar Moe, Seattle, Wash.
Application October 11, 1948, Serial No. 53,827
2 Claims. (Cl. 211—119.15)



1. A housing and holder for an extendable clothes line that is formed at intervals therealong with enlargements serving as line stops, said housing having a front wall formed with a notch opening to the top edge thereof for the reception and passing of the clothes line into and from the housing, and a removable cover for the housing formed with means adapted to overlap with the notched wall when the cover is applied and adapted to restrict the notched opening to prevent the line stops from passing out of the housing.

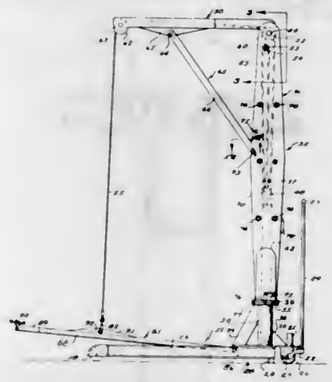
2,615,583
DISPLAY STAND
Richard J. Johnson, Minneapolis, Minn.
Application May 13, 1948, Serial No. 26,759
2 Claims. (Cl. 211—148)



2. A display stand comprising a base, an upright secured at its lower end to said base and having at least one substantially horizontal cross slot therein, a shelf of lesser thickness than the distance between the upper and lower horizontal portions of said upright defining said slot, said shelf being received partially within said cross slot, a shelf supporting bracket having one surface adapted to bear against said upright and another surface adapted to bear against the underside of said shelf, and means mounted on said upright and vertically adjustable relative thereto and relative to said shelf for securing said bracket to said upright and for clamping said shelf in said slot.

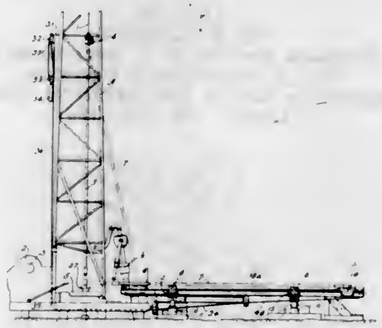
2,615,584
HYDRAULIC HOIST
Eli J. Adams, Springfield, Mo.
Application April 21, 1950, Serial No. 157,347
4 Claims. (Cl. 212—59)

1. In a hoist, a support, a perpendicular mast having a lower end seated on said support, a boom having a rearward end pivoted on the upper end of said mast, a diagonal rearwardly declining boom brace having a forward end pivoted to a point intermediate the ends of said boom, said boom brace having a rearward end slidably connected for vertical movement along said mast, means acting between the rearward end of said boom brace and said mast for anchoring the rearward end of said boom brace to said mast whereby said boom is fixed to extend horizontally, a boom pulley on the forward end of said boom, mast pulley means on the upper end of said mast, a vertically movable member having a pulley on its upper end, said vertically movable member



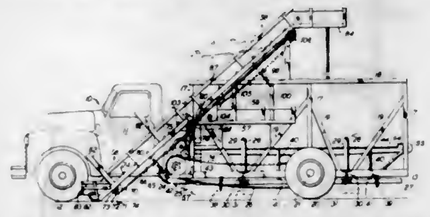
being located along the lower part of said mast and in line with said mast pulley means, a cable having a hook on its forward end, said cable depending from and being trained rearwardly over said boom pulley and over said mast pulley means, then downwardly and anchored to said vertically movable member, and operating means for elevating and depressing said vertically movable member to raise and lower said hook.

2,615,585
WELL DERRICK, RIG, AND PIPE RACKING APPARATUS
James W. Menhall, Benton, Ill.
Application June 27, 1947, Serial No. 757,419
2 Claims. (Cl. 214—1)



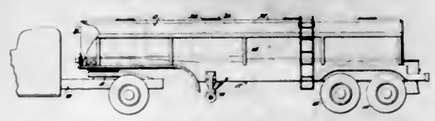
2. Pipe handling apparatus of the class described, comprising a derrick, elevator means supported by said derrick, a horizontal track extending from said derrick, a pipe rack extending at an angle in a substantially horizontal plane from said track, a carriage movable on said track toward and from said derrick, in which the pipe engaging portion of the carriage is on a level substantially the same as the adjacent top portion of the rack and an auxiliary block of a diameter approximating that of a pipe section handled by the machine superposed on the carriage and movably connected to the carriage to shift to one end of the latter when not in use.

2,615,586
MOBILE BALE HANDLING EQUIPMENT
Einer A. Miller, Clearwater, and Elmer I. May, Yucaipa, Calif.
Application February 7, 1949, Serial No. 74,982
8 Claims. (Cl. 214—83.16)



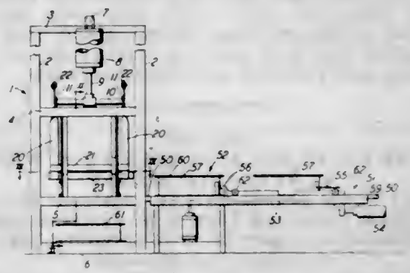
1. In a conveyance comprising an engine and a frame supported by wheels upon a road bed, a load-receiving bed, means to normally support said bed at a level substantially above the road bed, means to raise and lower said bed, means to limit the downward movement of the load-receiving bed to a level slightly above the level of the road bed, an unloading frame carried by the frame vertically disposed above said load-receiving bed, means to shift said unloading frame rearwardly from a position above the forepart of the bed to push a load from the load-receiving bed onto the roadbed and to compress the load, an actuating member to transmit the power of the engine to said last-named means, and means to brake the conveyance during rearward movement of the unloading frame to resist forward movement of the truck incident to resistance of the load to compression.

2,615,587
CONVEYER SYSTEM FOR VEHICLES
Frank A. Beyer and Ralph A. Bradley, Springfield, Mo., assignors, by mesne assignments, to Trailmobile Inc., a corporation of Delaware
Application June 24, 1949, Serial No. 101,182
6 Claims. (Cl. 214—83.16)



1. A vehicle for transporting pulverized materials comprising; an elongated tank having an intermediate partition providing a forward and rearward compartment, the rearward compartment including a discharge opening, the bottom of the forward compartment constituting a conveyor trough and the rearward compartment having a conveyor trough disposed below the plane of the conveyor trough of the forward compartment, the conveyor trough of the forward compartment including a substantially vertical passageway open to the trough of the rearward compartment, a respective forward and rearward conveyor screw section extending through said respective troughs with the inner adjoining end portions of the sections being disposed one above the other in overlapping relationship in the vertical passageway between the forward and rearward troughs, the forward screw section having a shaft extended rearwardly through said intermediate partition and the rearward screw section having a shaft extended forwardly through the end of the rearward trough, respective driving means connected to the extended shafts, said respective driving means being disposed laterally of the screw sections and adapted to rotate said forward and rearward conveyor screw section selectively to provide selective unloading of the forward and rearward compartments, and a laterally extended housing mounted upon the intermediate partition within the tank to enclose the driving means for the forward screw section the said housing having an opening to the exterior of the tank with the said driving means extending into the housing through said opening.

2,615,588
FLASK TURNOVER FOR FOUNDRY MOLDING MACHINES
Stanley James Gedris, Grand Rapids, Mich.
Application July 28, 1950, Serial No. 176,507
5 Claims. (Cl. 214—115)

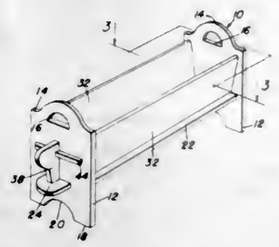


1. In a hoist for a foundry flask, the combination comprising: a frame; a clasp member including a vertically reciprocable head and a pair of spaced arms, each of said arms pivotally mounted to one side of said head adjacent its upper end and depending from said head; resilient means urging said arms apart; a track, said track including a primary portion adjacent said arms and parallel to the centerline of said clasp member; a secondary portion spaced from said primary portion in a direction remote from the centerline of said clasp member; the lower end of said secondary portion depending below said primary portion and the upper end of said secondary portion converging with said primary portion; a switch element in said primary track pivotally mounted at its lower end; the upper end of said switch portion contacting said primary portion at the point of conversion of said primary portion and said secondary portion; means urging said switch element into alignment with said primary portion; means for vertically, reciprocably moving said clasp member; a guide on each of said arms for contacting said track whereby as said clasp element is moved downwardly said guide will urge said arms together until said guide passes around the end of said primary portion and contacts said secondary portion for allowing said arms to separate until said guide transverses the end of said secondary portion converging with said primary portion.

2,615,589
FLOWER BOX
William M. Perdue, Little Rock, Ark.
Application July 19, 1950, Serial No. 174,775
1 Claim. (Cl. 217—12)

A collapsible box comprising a pair of end walls each having a horizontally disposed slot therein, a bottom wall having longitudinally extending tabs thereon, said tabs being received in said slots and extending outwardly therebeyond, side

walls disposed between said end walls and having the lower edges thereof resting on said bottom wall, the outwardly extending portions of said tabs having apertures therein, keys extending through said apertures and abutting said end



walls to retain said end walls in abutting engagement with said side walls, said keys having notches in the portions thereof which abut the end walls and bars mounted transversely in the notches and engaged with said end walls.

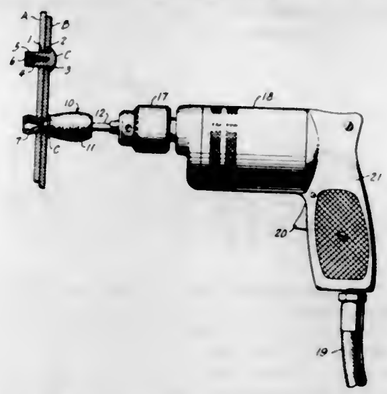
2,615,590
SNAP FASTENER ASSEMBLY TOOL WITH PENETRABLE SLEEVE
Arthur Dritz, Brooklyn, N. Y., assignor to John Dritz & Sons, New York, N. Y., a partnership
Application January 12, 1950, Serial No. 138,160
1 Claim. (Cl. 218—20)



A snap fastener assembly tool comprising a head with a narrower handle extending from one face of said head, another face of said head having a depressed shaped surface of a given outer configuration for acting on and supporting the top elements of male and female snap fasteners of corresponding outer configuration, the outer configuration of said handle at its free end being smaller in all directions than the outer configuration of said depressed surface, thus adapting it to fit inside the ring of upstanding prongs of a correspondingly sized bottom element of a snap fastener, and a sleeve of penetrable resilient material enveloping said handle and abuttable against said head at one end edge and having an end edge terminating short of but close to the front end of said handle, the tips of said prongs thus penetrating said end edge of said sleeve when said handle is fitted inside the ring of prongs.

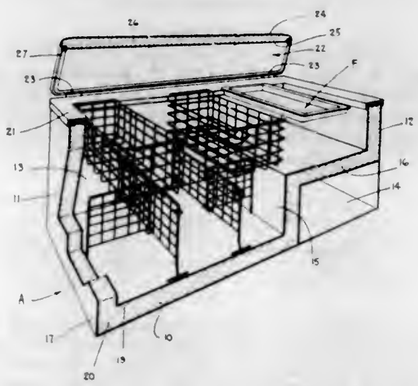
2,615,591
METHOD OF DETONATING EXPLOSION TYPE RIVETS
Salvatore T. Special, Fort Worth, Tex., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware
Application June 13, 1949, Serial No. 101,122
2 Claims. (Cl. 218—29)

1. In the use of explosion type rivets having an internal charge adapted to be detonated by elevating the temperature of the rivet, that improvement which consists in the steps of inserting the shank of said rivet into parts to be riveted, providing a surface that is relatively movable with respect to said rivet when so inserted, and pressing said relatively moving surface against a portion of the external surface of the rivet for a sufficient length of time to detonate



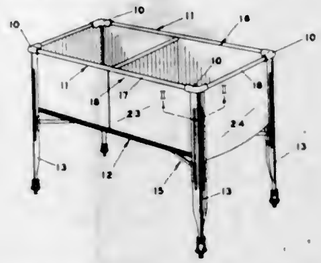
the said charge through temperature-elevation of said rivet responsive to friction created between the relatively moving surfaces.

2,615,592
REFRIGERATOR PARTITION STRUCTURE
Enoch Swedman, St. Paul, Minn., assignor to Seeger Refrigerator Company, a corporation of Minnesota
Application January 9, 1946, Serial No. 639,960
8 Claims. (Cl. 220—22)



8. A compartment forming structure for a refrigerator having a bottom panel and angularly arranged encircling wall panels secured marginally thereto, two of the wall panels being opposed and parallel, the structure including a partition wall of a length to fit between said parallel walls, right angularly extending feet at each end of said partition wall and designed to slidably support the partition wall upon the bottom panel of the refrigerator near the junctures thereof with said parallel wall panels, the feet being of sufficient length to engage against said parallel walls when said partition wall is twisted substantially out of right angular relation with said parallel walls, a second partition wall engageable with said first named partition wall to extend parallel to the parallel refrigerator walls, the second partition wall having hook means at one end engageable with the first partition wall for support thereby, and a leg at the other end resting upon the refrigerator bottom panel.

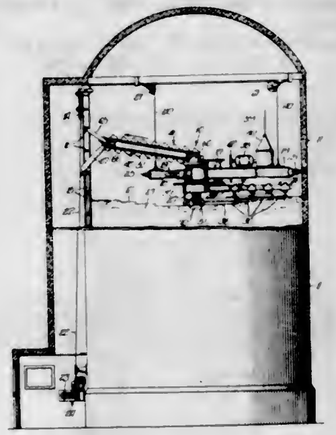
2,615,593
CORNER STIFFENING AND LEG HOLDING CONSTRUCTION FOR COLLAPSIBLE METALLIC TWIN TUBS
William C. Wolforth, Flint, Mich., assignor to Durand Metal Products Corporation, Saginaw, Mich., a corporation of Michigan
Application April 1, 1949, Serial No. 84,982
4 Claims. (Cl. 220—73)



4. In a device for stiffening a corner of a rectangular container having a leg extending vertically along and embracing said corner, said leg having an outwardly extending support flange at the top thereof, and said container having a molded rim extending outwardly from said container and comprised of cylindrical elements secured to the upper edge of said container and extending between the corners thereof, the adjacent ends of the rim elements being spaced from from each other and bearing upon said support flange, the combination comprising: an L-shaped member having a semi-circular cross-section with inner and outer downwardly extending edges, the opposite ends of said member overlapping and snugly embracing the adjacent end portions of two of said rim elements; a pair of gripping flanges integral with the opposite ends of said outer edge, one flange extending toward said inner edge beneath and tightly against each of said elements; a leg flange integral with the said outer edge midway between said gripping flanges, and extending therefrom toward said inner edge under the support flange on said leg for holding said support flange against said rim elements and the upper end of said leg against said container.

2,615,594
SILO UNLOADER
George D. Clapp, Oshkosh, Wis., assignor to Leach Company, Oshkosh, Wis., a corporation of Wisconsin
Application January 22, 1948, Serial No. 3,740
3 Claims. (Cl. 222—80)

1. In a silo unloader for installation in a silo above the surface of the silage, a vertically movable frame which is adapted to be centered in the silo, a radially disposed rotor arm which is rotatably connected at its inner end to the frame at the center of the latter, means on the arm for cutting the silage loose from the upper surface of the silage and moving the loosened silage in toward the center of the frame upon rotation of the arm, a single endless bucket type conveyor for picking up the loose silage and discharging it laterally from the silo, said conveyor being of inverted generally L-shaped form and being characterized by two articulated sections, one of which extends downwardly to a point beneath the frame through an opening in the center of the latter, and the other of which is pivotally supported at its inner end from the upper end of the first section and extends laterally from above the frame, means for rotating the rotor arm and driving the conveyor, and means for gradually



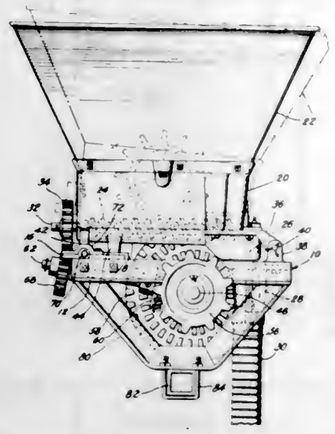
lowering the frame in the silo during the cutting operation.

2,615,595
COLLAPSIBLE TUBE DISPENSER, INCLUDING A PAIR OF ADJACENT ROLLERS
Herbert L. Ivins, Cleveland, Ohio
Application August 4, 1950, Serial No. 177,646
7 Claims. (Cl. 222—102)



1. In a collapsible tube dispensing device, a support, a manual operating lever pivotally connected to said support, a pair of adjacent rollers carried by said lever, said rollers being adapted to engage said tube therebetween, said rollers being mounted on separate shafts, the pivot for said lever being the shaft of one of said rollers and being free to rotate in one direction of movement of the latter, means for holding said pivot shaft solid with said support during pivotal movement of said lever in the other direction so that its roller is held stationary while the other roller revolves about it, whereby movement of said lever in one direction about its pivot bodily moves both of said rollers without relative rotation and movement of said lever about its pivot in the opposite direction causes opposite relative rotation of said rollers to engage, collapse and advance said tube in between said rollers to dispense the contents of said tube.

2,615,596
FERTILIZER DISTRIBUTOR
John Blue, Huntsville, Ala., assignor to John Blue Company, Huntsville, Ala., a corporation of Alabama
Application October 25, 1951, Serial No. 253,043
3 Claims. (Cl. 222—164)



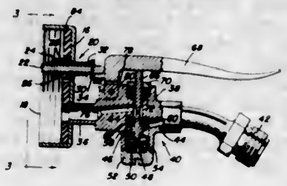
1. A fertilizer distributor adapted to be mounted on the side of a tractor for drive from an axle thereof comprising: a substantially rectangular frame having side and end rails; a hopper having a base of substantially the same length as said frame, one end of said base being pivotally mounted on one of said frame end rails for upward tilting movement in a substantially vertical plane and the other end of said base being supported on the other of said frame end rails; material discharge means for said hopper, including a shaft projecting from said base other end; operating means for said discharge means including a transverse drive shaft journalled on said frame side rails between their ends and extending beneath said hopper base, a multiple gear carried by said transverse shaft between said side rails and to one side of said hopper base, a pinion gear adjustably meshing with said multiple gear, a longitudinal shaft journalled on said frame beneath said base and carrying said pinion gear, said longitudinal shaft having one end thereof projecting outwardly of said other frame end rail, and a pair or normally-meshed gears, one carried by said projecting end of said longitudinal shaft and the other by said shaft projecting from said hopper base; and means for tilting said hopper to disengage said gear pair.

2,615,597
DISPENSING VALVE FOR LIQUID AND GAS CONTAINERS
Herbert F. Tomasek and Frank Zimmer, St. Louis, Mo., assignors, by mesne assignments, to Reddi-Wip, Inc., St. Louis, Mo., a corporation of Missouri
Application September 27, 1948, Serial No. 51,386
8 Claims. (Cl. 222—394)

1. A dispensing container comprising a container portion having a substantially flat wall penetrated by a hole, a generally tubular elastic member having a tubular sleeve extending outwardly through said hole and having a flange-like enlarged portion on the inner side bearing axially flatwise against the container around the hole and with its outer edge unsecured, a hollow-stem valve member extending through and movable in the elastic member with its valve portion closing against the elastic member on the inside of the container and its discharge portion extending outside the container, the hollow stem being rockable laterally to angularly displace the valve portion, and a compression spring around the extending discharge portion resiliently urging the valve to a closed position and urging the flange-like enlarged portion of the elastic member into flatwise contact with the flat container wall around the hole.

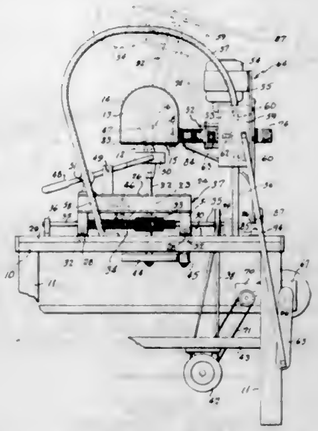


2,615,598
PIVOTED ACTUATOR FOR BOTH FLUID INLET AND PRESSURE RELIEF VALVES
Wayne B. Watkins and Karl W. Erge, Gloucester, N. J.
Application May 3, 1948, Serial No. 24,905
2 Claims. (Cl. 222—397)



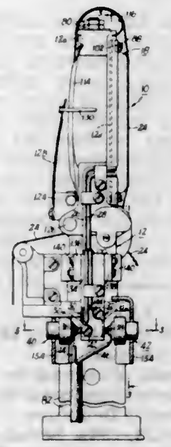
1. A glazing and caulking device comprising a housing and an outlet member communicating with one end of said housing for conducting viscous material from said housing, a valve body member attached to the opposite end of said housing by means of a collar, said valve body member having a passage therethrough, a valve chamber in said body member in communication with said passage, said valve chamber having a piston reciprocatively received therein, said piston terminating exteriorly of said valve chamber, and means for actuating said piston to unseat said valve piston, a relief valve in said collar and arranged for operation by said valve piston actuating means, said piston and relief valve actuating means comprising a handle pivoted to said valve body member, a spring in said valve chamber reacting on said valve body member and seated on said piston for urging said valve piston to the closed position, means for adjusting selectively the compression of said spring comprising a plug threadedly disposed in said valve body member, and a spring seated on said collar and acting on said relief valve to normally bias said relief valve in the closed position until acted upon by said handle.

2,615,599
MACHINE FOR FINISHING HATS
William C. Griffing, Danbury, Conn., and Alfred E. Hodshon, Lahaska, Pa., assignors to W. C. Griffing, Incorporated, Danbury, Conn., a corporation of Connecticut
Application April 14, 1949, Serial No. 87,379
14 Claims. (Cl. 223—20)



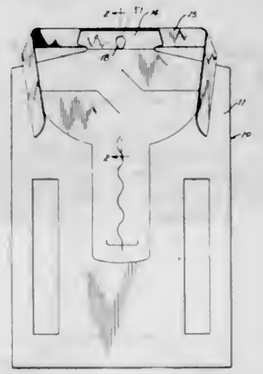
1. A hat finishing machine comprising means for supporting and rotating a hat block with the hat on it, a finishing element comprising a rotatable support on the periphery of which are a plurality of peripherally spaced groups of radially extending thin narrow flexible abrasive strips, means for slowly rotating the block and hat, and means for rapidly rotating the finishing element adjacent the surface of the hat so that the free end portions of the strips beat on and are drawn laterally over this surface.

2,615,600
POUNCING MACHINE WITH HEATED GREASE PAD
Frederick J. Berger, Danbury, Conn., assignor to Doran Brothers, Incorporated, Danbury, Conn.
Application April 3, 1950, Serial No. 153,564
7 Claims. (Cl. 223—20)



1. In a heated grease pad for use on a machine in which the grease pad is moved with respect to the body of a hat during the greasing operation, in combination, a supporting column, a grease pad, a heating element mounted on said grease pad, means mounting said grease pad on said column for movement with respect thereto, a pair of contact members mounted on said supporting column, and a pair of contact members mounted on said pad connected by conductors to said heating element, said pair of pad contact members being in engagement with said pair of column contact members, each pair of contact members engaging the other pair of contact members with a sliding contact as said pad moves with respect to said column.

2,615,601
SHIRT FORM WITH COLLAR STRIP LOCK
Lawrence M. Kahn, New York, N. Y.
Application July 14, 1950, Serial No. 173,712
4 Claims. (Cl. 223—71)

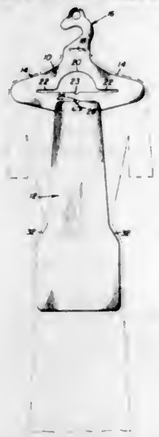


1. A shirt form with a collar strip lock, comprising a shirt form having a body portion upon which a shirt with an attached collar may be mounted and a collar tab portion positioned upwardly to said body portion, said collar tab portion being engageable into the back portion of said collar of said shirt, a collar strip for engaging inside of said collar to hold said collar upright, a single upwardly directed tongue on said collar tab portion formed by a slot cut in said collar tab portion, a single downwardly directed tongue on the center of the back portion of said collar strip engaging downwards through said slot in order that said upwardly directed tongue will be in face contact with said downwardly directed tongue to firmly hold said collar strip in position.

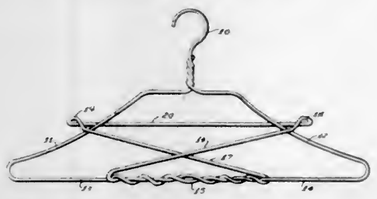
2,615,602
GARMENT HANGER AND FORM BOARD
Ernest S. Thompson and Norman A. Weitz, Atlanta, Ga.
Application April 10, 1950, Serial No. 154,898
1 Claim. (Cl. 223—87)

A hanger comprising a sheet of bendable material having a horizontal slot therein for the reception of a garment and further having a notch at an intermediate point in the lower wall of the slot, a form board for suspension from the lower portion of the sheet, said form board having a horizontal slot in its upper portion, said sheet still further having a substantially U-shaped slit in its lower portion defining an integral, upstanding, laterally bendable tongue engageable in the second named slot for temporarily suspending the board from the sheet, said board

further having a notch in its upper end for alignment with the first named notch for centering said board on the sheet, and a suspension hook rising from said sheet.



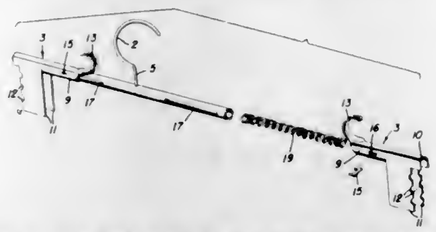
2,615,603
GARMENT HANGER
Frank L. Durr, New York, N. Y.
Application December 26, 1950, Serial No. 202,659
5 Claims. (Cl. 223—88)



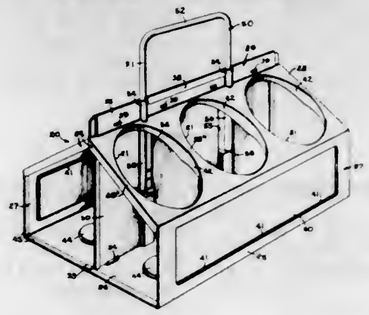
1. In a garment hanger having shoulder supporting members connected together at the top and connected by horizontal bar means at the bottom, the improved construction which comprises a pair of crossed supporting members extending upwardly from spaced portions of said bar means, crossing in front of the area between the shoulder supporting members and the horizontal bar means and then continuing over the top of the shoulder supporting members to the back of the hanger, and garment supporting means connected with the ends of the crossed supporting members at the back of said hanger.

2,615,604
PANTS HANGER
Mayo E. Leonard, Toledo, Ohio
Application May 19, 1949, Serial No. 94,169
2 Claims. (Cl. 223—95)

1. In a pants hanger, a tubular hanger bar provided adjacent each end with a pair of diametrically opposite longitudinally extending slots therein, a hanger hook having a shank extending centrally through said bar and about which said bar is rotatable into different positions, a pair of pants grips carried by said bar upon opposite sides of said shank and including a pair of sleeves slidable outwardly along said bar to correspondingly slide said grips into pants gripping position, said sleeves having diametrically opposite slots therein, a pair of pins extending diametrically through said bar with ends slidable in the pairs of slots in the bar and fitting in the pairs of slots in the sleeves to guide said sleeves during sliding thereof and correspondingly guide said grips, a pair of coil springs in said bar having inner ends bearing against opposite sides of said shank and outer ends bearing against said pins to slide the pins in the slots in the bar and thereby slide said sleeves, said pins being notched to seat the outer ends of the springs therein to prevent the pins from working out of said slots, and means on said shank coacting with the inner ends of said springs to yieldingly lock said bar in different positions into which the same is rotated.



2,615,605
BOTTLE CARRIER
Ernest T. Wahlbom, Rockford, Ill., assignor, by direct and mesne assignments, of one-half to said Wahlbom, Rockford, Ill., and one-half to Osborne E. Griggs, East Hartford, Conn.
Application December 13, 1947, Serial No. 791,568
8 Claims. (Cl. 224—45)



1. A bottle carrier having, in combination, a flat bottom, sides upstanding from and normal to said bottom along opposite margins thereof, a top having bottle-receiving holes spaced above said bottom and rigid with said sides, vertical guideways of substantial lengths rigid with both said bottom and said top, an inverted U-shaped bail having legs engaged intermediate their ends by and slidable in said guideways and laterally supported throughout the lengths of the guideways, and means on said carrier cooperating with abutments on the legs of said bail to limit the upward withdrawal of the bail relative to the carrier.

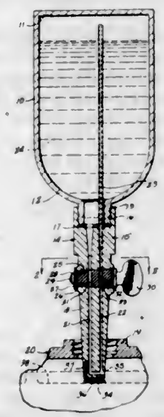
2,615,606
DEVICE FOR WRAPPING HOLLOW PACKAGES
Henry J. McDermott, Collingdale, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application July 23, 1946, Serial No. 685,745
13 Claims. (Cl. 226—2)

2. An apparatus for applying a cover to a hollow package comprising supporting means, two concentric at least partially hollow, rigid structures, each having a cylindrical wall concentric with that of the other, both of the structures being carried by the supporting means and being held in relatively fixed position thereby, each of said structures being open at least at one end adjacent the open end of the other structure, a package-engaging member disposed in the open recess thus provided between the concentric walls,



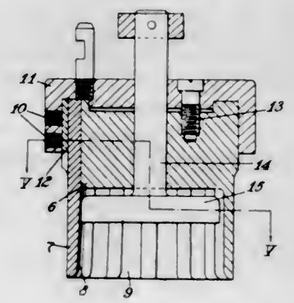
the mounting arrangement of the member on the one hand and the two concentric structures on the other hand being such as to permit relative motion therebetween in an axial direction from a position in which the member is near the open end of the recess between the two walls to a position in which it is well within said recess, and spring means connected with the member and normally urging the member to the position near the open end of the recess in the outer structure.

2,615,607
BATTERY FILLER
Joseph E. Huskey, Newport, Tenn.
Application February 14, 1950, Serial No. 144,129
1 Claim. (Cl. 226—19)



A battery filler comprising a container having a neck, an elongated spout detachably secured at one end to said container and removable from the container for filling the latter and having two independent bores extending longitudinally thereof, each of said bores communicating at one end with the interior of said container, a tube extending from the container end of one of said bores into said container to a location adjacent the other end of the latter, said spout also having adjacent its end remote from said container a transverse aperture opening at one end to the side surface of said spout and connected to both of said bores with an enlarged portion at its open end and said spout having intermediate its length a transversely extending valve bore, a manually rotatable valve plug disposed in said valve bore and having apertures extending transversely therethrough for continuing said longitudinal bores when said valve plug is in a predetermined rotational position relative to said spout, the transverse apertures in said valve plug being so arranged that both of said bores can be continued, both can be interrupted, or one bore can be continued while the other is interrupted at different rotational positions of said plug relative to said spout, a footplate spaced from the end of said spout opposite said container and adapted to rest upon the upper ends of the plates of a battery cell to space the open end of said aperture a predetermined distance above the upper ends of the plates, and a screw adjustably connecting said footplate to said spout.

2,615,608
CLOSURE APPLYING MECHANISM
Samuel Davison Young, Rugby, England
Application February 25, 1948, Serial No. 10,896
In Great Britain February 3, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 3, 1964
1 Claim. (Cl. 226—86)



A closing head for securing caps or closures of the type having a peripheral flange having an uninterrupted, thickened, radially extending edge thereon to containers of the type provided with a welt providing a recess or reentrant portion below the mouth of the container, said head being adapted to encircle the flange of the cap in a closing operation and comprising a crown having a depending skirt, said skirt having circumferentially spaced longitudinal slits therein, a plurality of jaws each including an upper portion and said jaws corresponding in number to the number of slits in the skirt extending longitudinally with respect to the axis of said crown depending therefrom and disposed within said slits, means rigidly and detachably securing the upper portions of said jaws to said crown so that the jaws are attached to the crown in cantilever fashion and said jaws having inner surfaces disposed radially inwards of the adjacent surfaces of the skirt for engaging and effecting local displacement at circumferentially spaced positions of the radially extending edge on the flange of the cap in a closing operation.

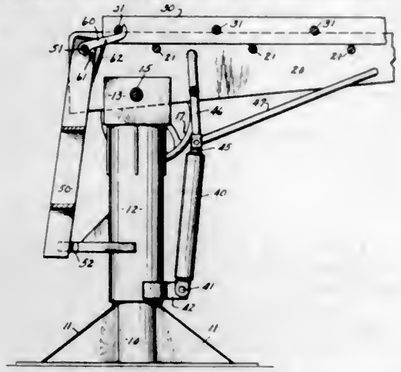
2,615,609

EXTENSION LADDER AND LOCK THEREFOR

Roy O. Balogh and Eugene G. Humpal, Cleveland, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo., a corporation of Missouri

Application November 8, 1949, Serial No. 126,179
6 Claims. (Cl. 228—18)

1. The combination of a supported standard, a main ladder pivoted thereto on a horizontal pivot, an extension ladder slidable lengthwise on the main ladder for disposition optionally in extended and retracted positions relative to the main ladder, a latch carried by the main ladder and adapted to engage the extension ladder or be



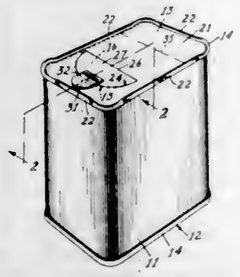
free therefrom, a depending step ladder pivotally carried by the main ladder, and a stop on the step ladder adapted to hold the latch in engagement with the extension when the extension ladder and main ladder are substantially horizontal and the extension ladder is in retracted position.

2,615,610

CONTAINER WITH RECLOSURE AND SHIELD DEVICE

Arthur J. White, Hempstead, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 26, 1947, Serial No. 793,883
5 Claims. (Cl. 229—7)



1. A container having in a metallic wall section thereof a score line setting off a depressible area bendable inwardly to produce a dispensing opening for the container, a shield disposed over said metallic wall section and having an opening opposite to and smaller than said depressible area, the material of said shield projecting over said score line for shielding the raw cutting edge of the metal resulting from the breaking of said score line when said depressible area is bent inwardly to produce said dispensing opening, and a reclosure element in said shield for reclosing the dispensing opening in said container.

2,615,611

CHICK SHIPPING CONTAINER

Philip F. Paul, North Hollywood, Calif., and Ronald Capps, Seattle, Wash., assignors, by direct and mesne assignments, to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

Application April 19, 1949, Serial No. 88,462
2 Claims. (Cl. 229—15)



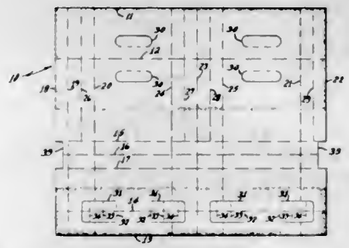
1. In a chick box of flexible fiber board, a body portion comprising a body member, upwardly extending side and end walls, intersecting partition members extending between the side and end walls, each of said partition members having the lower edges thereof spaced from the bottom and extending upwardly to the top of the box and legs at the intersection only of the partitions between the lower edges thereof and the bottom member, and integral flanges on said partitions for attachment to said side and end walls.

2,615,612

CARRIER FOR COLUMNAR ARTICLES

Oscar L. Vines, New York, N. Y.

Application June 21, 1951, Serial No. 232,784
7 Claims. (Cl. 229—28)



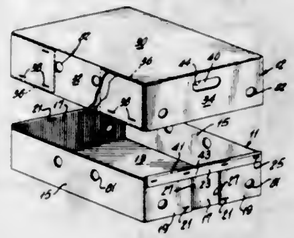
1. A carrier blank for columnar articles comprising a rectangular blank of flexible sheet material, a first horizontal score line spaced inwardly below the upper edge of the blank, a second horizontal score line spaced inwardly above the lower edge of the blank, a group of three horizontal and equally spaced score lines positioned between the first and second horizontal score lines, each of said five horizontal score lines extending the full width of the blank, a first vertical score line spaced inwardly from one side edge of the blank, a second vertical score line spaced inwardly from the first vertical score line, a third vertical score line spaced inwardly from the other side edge of the blank substantially the same distance as that between the first and second vertical score lines, a fourth vertical score line positioned centrally between the second and third vertical score lines, fifth and sixth vertical score lines positioned on opposite sides of the fourth vertical score line and spaced therefrom substantially the same distance as that between the first and second vertical score lines, each of said six vertical score lines extending from the upper to the lower edge of the blank, and seventh, eighth, ninth and tenth vertical score lines positioned centrally between the first and second vertical score lines, between the fourth and fifth vertical score lines, between the fourth and sixth vertical score lines and between the third vertical score line and its proximate side edge of the blank, respectively, each of said seventh, eighth, ninth and tenth vertical score lines extending from the upper edge of the blank downwardly to the group of three horizontal score lines.

2,615,613

CONTAINER WITH TELESCOPING CLOSURE

Harry C. Reeser, North Hollywood, Calif., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

Application March 25, 1949, Serial No. 83,392
3 Claims. (Cl. 229—43)



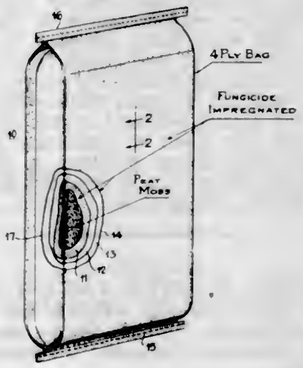
1. A box of the character described, comprising a body portion having upstanding side and end walls and a cover portion having depending side and end walls for telescoping engagement with the side and end walls of the body portion, one opposite pair of walls of said body portion being provided along the upper edges thereof with flanges extending downwardly from said upper edges and secured to the exterior surface of said walls at spaced points to provide downwardly opening pockets between said flanges and said walls intermediate said spaced points, said cover member having openings constituting unobstructed hand holes in the corresponding walls thereof, the upper edges of said openings being positioned immediately adjacent the lower ends of said pockets thus permitting the user's fingers to pass through the hand holes and lift the body by means of the flanges.

2,615,614

FUNGUS INHIBITING CONTAINER FOR PEAT MOSS AND THE LIKE

Frank Raymond Linda, White Plains, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York

Application August 25, 1948, Serial No. 45,995
12 Claims. (Cl. 229—55)



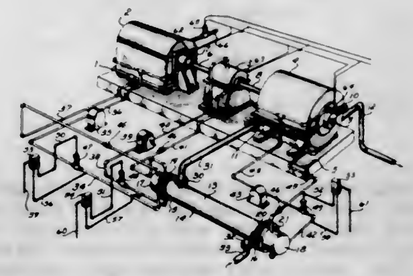
6. A multiwall bag for packaging peat moss and related products, comprising a plurality of paper tubes, disposed one within another and secured together at at least one end thereof to form a permanent closure, the inner surface of the innermost ply of which is coated with an adherent and substantially moisture and fungus impervious layer of a synthetic plastic composition, effective to impart moisture resistance to said bag and to prevent said inner ply from being attacked by fungi present in said products, and at least the outer ply of said bag being treated with a substantially non-volatile fungicidal agent of a character and in an amount sufficient effectively to prevent said outer ply from being attacked by said fungi.

2,615,615

FIELD COMPRESSOR

Farrile S. Young, Kansas City, Mo., assignor to Panhandle Eastern Pipe Line Co., Kansas City, Mo., a corporation of Delaware

Application August 12, 1949, Serial No. 109,861
3 Claims. (Cl. 230—8)



1. An apparatus of the character described comprising, a centrifugal compressor, means for driving the compressor, oil for lubricating the compressor, a gas supply line leading to the compressor, means in said gas supply line for cooling said oil, a hot oil flow line from the compressor to the cooling means, a check valve in the hot oil flow line permitting flow only toward the cooling means, means for flow of cooled oil from the cooling means to the compressor, a pressure actuated valve in said cooled oil flow means for shutting off flow therethrough, a conduit connecting said pressure actuated valve to a source of fluid pressure, a pilot valve in the conduit normally closing same and responsive to a predetermined pressure for opening said conduit, and means connecting the pilot valve to the cooled oil flow means between the cooling means and the pressure actuated valve whereby predetermined pressure in the cooled oil flow means actuates the pilot valve to open the conduit for flow of fluid pressure to the pressure actuated valve to operate same and shut off flow in the cooled oil flow means.

2,615,616

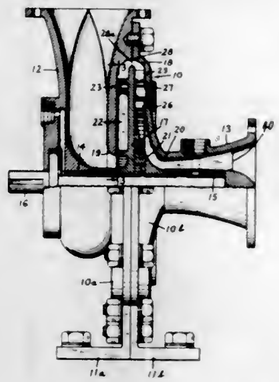
TURBINE AND COMPRESSOR APPARATUS

William Spencer Bowen, Westfield, N. J.

Application April 8, 1950, Serial No. 154,849
6 Claims. (Cl. 230—130)

1. In turbine and compressor apparatus, the combination of a stator having a chamber therein communicating with an inlet eye and a discharge port, an impeller wheel mounted for rotation in said chamber and having forward leading vanes on one side thereof each extending from a position near the axis of rotation to a position near the periphery of said wheel, said stator having a continuous inner wall of substantially concave cross-section encompassing the periphery of said impeller wheel for imparting

to fluid discharged from said forward leading vanes a radially inward component of movement and a peripheral component in the direction of rotation, a peripheral array of impact type vanes mounted on the other side of said impeller wheel, a second array of impact type vanes mounted on said other side of the impeller wheel intermediate the periphery and the axis thereof, the vanes in



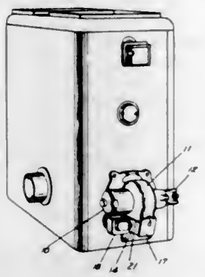
both said arrays being so shaped as to impart a radially inward component to the fluid from said forward leading vanes, and a plurality of stationary impact type vanes interposed between said first and second arrays, said stationary vanes being suitably shaped to direct fluid from vanes in one array to vanes in the other array while imparting an inwardly radial component to the motion of said fluid.

2,615,617

ROTARY BLOWER SUPPORT

Emert J. Lattner, Cedar Rapids, Iowa, assignor to Century Engineering Corporation, a corporation of Iowa

Application June 10, 1948, Serial No. 32,218
3 Claims. (Cl. 230—132)



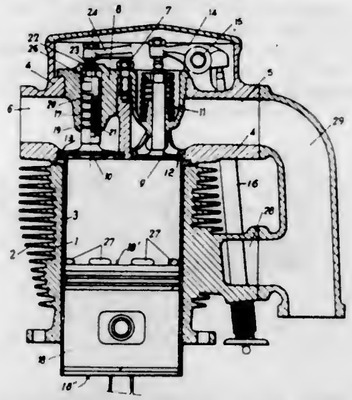
1. In a fluid fuel burner having an air conduit and a demountable blower housing, with rotatable blower, adapted to be mounted thereon, a resilient gasket disposed between the air conduit and blower housing and adapted to provide a substantially air-tight seal and sound isolating means therebetween, and means for securing the demountable blower housing to the air conduit comprising a plurality of resilient snubbers, each of said snubbers having a mounting member extending therethrough in non-parallel relation with other of said mounting members.

2,615,618

COMPRESSOR

Marcel René Armand Chabay, Paris, France

Application July 31, 1947, Serial No. 765,187
In France April 1, 1941
3 Claims. (Cl. 230—172)



1. A compressor comprising at least one cylinder, a piston reciprocating therein and adapted to compress a fluid during a single stroke, said piston comprising a head portion creating said compression and an under portion subjected to no compression at all, inlet and outlet valve means in said cylinder, means for the positive control of said inlet valve means, lateral apertures in said cylinder, said apertures being of an elongated shape, their height being substantially smaller than their length, said apertures being located in proximity of the lower dead center of the piston and being adapted to be uncovered thereby when said latter arrives at said dead center, tubular inlet means for said fluid provided with two equivalent branches adapted to connect directly said inlet means, first, said apertures, and secondly, with said inlet valve means, the said branches being adapted to provide upon the closure of the inlet valve means a continuous flow of the fluid into said cylinder through said apertures, thereby transforming the kinetic energy of said fluid into pressure energy, said outlet valve means comprising a stem and a main body, the two opposite faces of which are subjected, respectively, to the pressure prevailing in the cylinder and to the combined pressure exerted on the opposite face of said body by the outlet back pressure fluid and on the stem by the inlet pressure, said pressures on the area of said body and stem being adapted to create a balanced condition of said valve, further means provided for holding said outlet valve means in the closed position at least during the suction stroke of the piston, resilient means disposed in contact with said stem to yieldingly urge said outlet valve into closed position, a piston-like member supported over said resilient means and a control device acting on said piston.

2,615,619

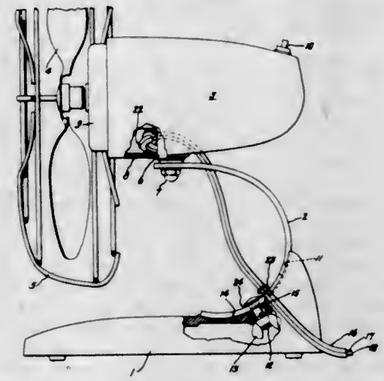
OSCILLATING ELECTRIC FAN AND POWER SUPPLY MEANS THEREFOR

Fred G. Andersen, Milford, Conn., assignor to General Electric Company, a corporation of New York

Application December 27, 1950, Serial No. 202,895
3 Claims. (Cl. 230—256)

1. In an electric fan, a fan base, a supporting arm mounted on said base, a power unit swivelly

carried on said arm for oscillatory movement, a continuous length power supply cord which extends transversely across the supporting arm adjacent to said base and through a side wall of said power unit, said cord being of the type having two flexible conductors extending in parallel spaced relation with insulation covering each conductor and forming a web joining the two conductors in such parallel relation, said cord having its minimum dimension in thickness



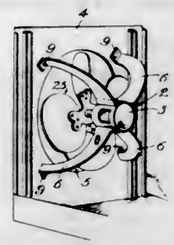
through one conductor and its corresponding insulation and its maximum dimension in width through both conductors and their insulation including the web, means anchoring said cord to the power unit, and clip means affixing said cord to said arm with its maximum dimension extending lengthwise thereof, there being a length of cord between said clip and anchoring means sufficient to form a loop of substantial size to permit flexing of said cord when the power unit oscillates with respect to said supply arm.

2,615,620

FAN MOTOR MOUNT ON VENTILATING PANEL

Adam D. Goettl, Phoenix, Ariz.

Application June 23, 1950, Serial No. 169,923
4 Claims. (Cl. 230—259)



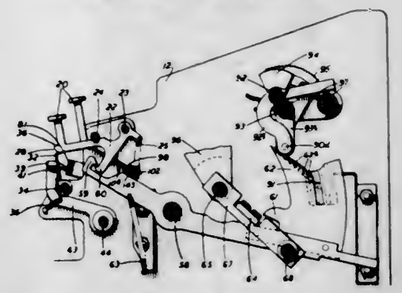
1. A motor mount for supporting electric motors which have cylindrical cases and axially positioned shafts carrying disk type fans on panels at right angles to the axes of the motor shafts, consisting of four elements cut from sheet metal having their inner portions shaped and curved to form arcuate clamp sections, and their outer portions directed radially outward from said arcuate clamp sections by a bend parallel with the axis of said motor case and shaped to form flat supporting arms curving forward from said motor case over the fan on said motor shaft, and bent at right angles at their outer ends to form pads adapted for attachment to a supporting panel; the inner ends of each of said arcuate clamp sections being attached to the ends adjacent the supporting arms of each adjacent clamp section to provide a cylindrical clamp enclosing said motor case.

2,615,621

CASH REGISTER

Henry Gross and Samuel Gross, East Finchley, London, England

Application December 23, 1946, Serial No. 717,912
In Great Britain January 1, 1946
13 Claims. (Cl. 235—10)



1. In a calculating machine, a calculating mechanism, a series of actuating keys, a series of cam levers, one for each key, arranged front to rear of the machine and operable to actuate the calculating mechanism according to which keys are operated, a coupler device, a powered member connected to said coupler, power means for actuating said powered member, spring means urging said cam levers towards positions in which they can be engaged with said coupler during its actuation, means engageable with the cam levers to retain said levers against movement under the action of said springs when the actuating keys are in their normal positions and operable to release said levers on partial actuation of the corresponding keys, means for holding said powered member inoperative until a partially actuated key has been further actuated and thereby permit said coupler to move the released cam levers in a direction to actuate the calculating mechanism, and means operable to restore said released cam levers to their normal positions against the action of said spring means.

2,615,622

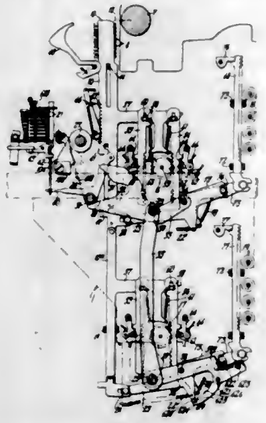
REBOUND PREVENTING MEANS FOR DIFFERENTIAL ACTUATORS

Walter A. Anderson, Bridgeport, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Original application June 27, 1946, Serial No. 679,722, now Patent No. 2,536,524, dated January 2, 1951. Divided and this application December 7, 1948, Serial No. 63,965
3 Claims. (Cl. 235—60)

1. In a machine of the class described having a means movable differentially from a normal position to different digit-representing positions, means for urging said movable means to the latter named positions, stop means for said movable means conditionable to stop the latter upon movement to a desired digit-representing position, control means normally engaging said movable means to hold it in normal position, means for operating said control means to enable said urging means to drive said movable means until arrested by the said stop means, said control means moving away from the movable means

after the latter is arrested by said stop means, and means including a cam element operating between said control means and the movable means, and effective to apply to the latter, during the initial portion of the separation of said con-



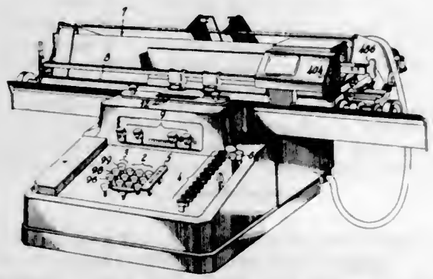
trol means and said movable means a rebound-counteracting force, said cam element having a dwell rendering it non-impeding to the control means during the remainder of the movement of the control means away from said movable means.

2,615,623

AUTOMATIC OLD BALANCE PICKUP MEANS FOR ACCOUNTING AND LIKE MACHINES

Richard W. Pitman, Laverock-Hillcrest, Pa., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Application November 10, 1949, Serial No. 126,612
16 Claims. (Cl. 235—60.13)



1. In a machine of the class described, in combination, a record carriage laterally movable into a series of columnar positions and adapted to hold a record sheet bearing such columns, a totalizer mechanism, a set of differentially positionable type bars adapted to print amounts on the record sheet, a cycling mechanism, total taking control means operable by the cycling mechanism to differentially position the type bars to represent an amount standing in the totalizer and conditionable alternatively to maintain the amount in the totalizer for sub-total taking or to clear the amount therefrom for total taking, means operable by the carriage in its balance column position to initiate a cycling operation and condition the total taking control means for a sub-total operation, punching mechanism mounted on the carriage to operate in a perforate record column of the record sheet adjacent the balance column and adapted to codally record a balance, means cooperative with said type bars with the carriage in said perforate record column to select certain punches according to a prescribed code, means operable by the cycling mechanism with the carriage in said perforate record column to actuate said punching mechanism, and means operable by the carriage in its perforate record column position to condition the total taking control means for a total operation and initiate a cycling operation.

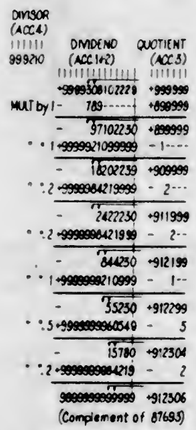
16. In a machine of the class described having a set of type bars differentially movable vertically to selectively present data type thereon to a typing line, a record carriage laterally movable to align different columns of a record sheet with the set of type bars, and record perforating means on the carriage at one of the record sheet columns to codally record the data represented by the differentially positioned type bars on the record sheet, said record perforating means comprising, a plurality of groups of punches, a set of punch-selecting bars adapted when vertically aligned with the set of type bars to be differentially positioned vertically thereby and to thus select certain punches of each group to codally represent the selected data type, said punch-selecting bars being adapted upon transverse movement to operate the selected punches, means guiding said selecting bars for vertical and transverse movement including spaced upper and lower guide combs engaging one edge of said selecting bars, spaced upper and lower slide shoes respectively above and below the groups of punches and spring pressed against the other edge of said selecting bars, said slide shoes yielding incident to transverse movement of said bars, a guide comb engaging the edge of said selecting bars at which the slide shoes engage, and means for transversely moving said selecting bars, said means acting on said bars at a point vertically midway between said upper and lower slide shoes.

2,615,624

MULTIPLYING AND DIVIDING MACHINE

Samuel Brand, Binghamton, and Francis V. Adams, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application September 22, 1948, Serial No. 50,574
21 Claims. (Cl. 235—61)



1. In a cyclically operable calculating machine, an accumulator settable to represent a dividend, an entry receiving device settable to represent a divisor, column shift devices, cyclically operable

means under control of the divisor receiving device for entering 1, 2 or 5 times the divisor subtractively into the dividend accumulator thrqugh said column shift devices, means for causing said cyclically operable entering means to perform successive subtractive entering operations, means jointly controlled by the accumulator and the entry receiving device and effective for each cycle for comparing the highest ordered divisor digit with the highest ordered digit in the dividend accumulator, and means controlled in accordance with said comparison for selecting 1, 2 or 5 times the divisor during the related entering operation.

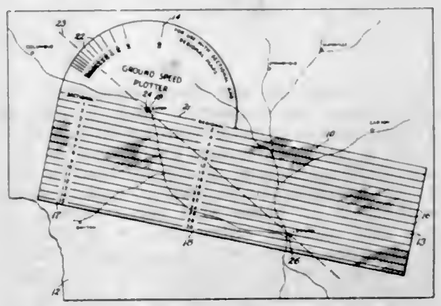
21. In a machine of the class described, an accumulator having denominationally ordered elements settable to represent a multiplier and conditionable for additive or subtractive operation, means for representing the algebraic sign of said multiplier, means for repeatedly selecting and testing the element containing the highest ordered digit of the multiplier and for causing algebraic addition of one of a predetermined number of values to the digit tested, the value selected, and whether it is to be added or subtracted, being determined by the value of the digit tested and its sign, and means for interrupting further testing when the multiplier has been reduced to zero.

2,615,625

GROUND SPEED PLOTTER

John Sheldon Youtcheff, Cincinnati, Ohio

Application January 20, 1950, Serial No. 139,777
2 Claims. (Cl. 235—61)



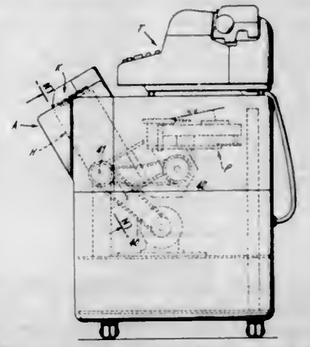
1. A plotting instrument which comprises a flat sheet of transparent material, a plurality of spaced parallel lines on said sheet denoting time, one of said lines being the origin line, a time scale associated with said parallel lines, said time scale consisting of indicia indicating successive intervals of time commencing at the origin line, an index point on the origin line, spaced speed indicating indicia on said sheet and arranged to form a series of straight lines passing through said index point and angularly spaced around the index point, and a speed scale associated with said speed indicating indicia, the indicia of the speed scale being spaced to accord with the time scale to correlate time and speed with distances measured from the index point to the lines, whereby, when the instrument is placed on a chart having a predetermined scale with the index point at a point of departure with a line connecting the point of departure with a destination passing through a given speed on the speed scale, the destination appears beneath the time line indicating the time required to travel between the point of departure and the destination at the given speed.

2,615,626

RECORD FEEDING AND ANALYZING APPARATUS

Hans Peter Luhn, Armonk, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application May 20, 1950, Serial No. 163,250
36 Claims. (Cl. 235—61.11)



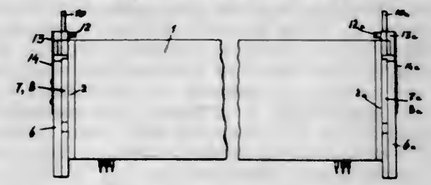
17. Analyzing apparatus for a machine controlled by a record card bearing a plurality of columns of index points in which data-representing designations are recorded, such apparatus comprising a worm shaft, means for holding a record card parallel to said worm shaft, with the columns of said card being in transverse relationship to said shaft, a brush carriage mounted on said shaft for movement longitudinally thereof, card sensing brushes mounted on said carriage for cooperating successively with the card columns as said carriage moves along said shaft, an emitter having a series of columnar contacts arranged parallel to said shaft, second brush means on said carriage for cooperating successively with the emitter contacts as said carriage moves along said shaft, first driving means for rotating said shaft at a given speed for moving said brushes along said card at a normal reading speed, second driving means for rotating said shaft at a higher speed to move said brush carriage at a skipping speed, and selecting means controlled by said emitter for determining the respective operations of said first driving means and said second driving means according to the columnar position of said second brush means on said emitter contacts.

2,615,627

WIPER HOLDER FOR PERFORATOR-CARD MACHINES

Cornelis Hendricus Stuivenberg, Haarlem, Netherlands

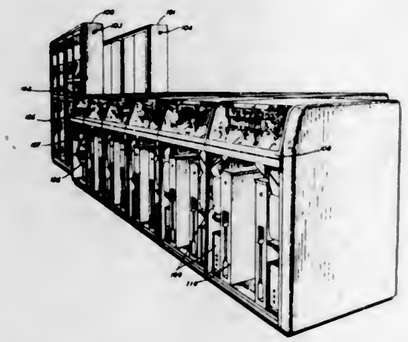
Application August 6, 1947, Serial No. 766,769
In the Netherlands August 27, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires August 27, 1965
10 Claims. (Cl. 235—61.11)



4. For use in connection with feeler means comprising a metal wire wiper for analyzing record cards, an arrangement comprising in

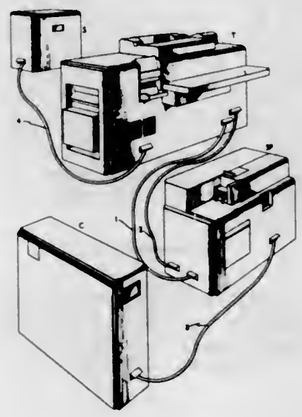
combination, holding means for holding said wipers, control means connected to spaced portions of said holding means, each of said control means being provided with a first cam member and a second cam member spaced from said first cam member, supporting means arranged adjacent each of said control means for supporting the same, first guiding means rigidly connected to said supporting means for guiding said first cam member along a straight path, second guiding means yieldingly connected to said supporting means for guiding said second cam member along a curved path during placement of said holding means into operative position, and contact means associated with said control means and operable in response to the placement of the wiper holder into its operative position for establishing electrical connection of said wipers with a current supply line.

2,615,628
AUTOMATIC ACCOUNTING DEVICE
Alfred E. Hague, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 24, 1949, Serial No. 101,089
12 Claims. (Cl. 235—61.7)



6. In an automatic accounting system in which customer charges for uses of given facilities are derived from scattered items of specific and general information recorded on continuous tapes during and by the said customer uses of the given facilities and wherein the conversion of said data into customer bills is accomplished in a series of steps by a plurality of accounting devices each of which is adapted to read items of information from an incoming tape and to assemble, sort, translate, compute or otherwise rearrange said items and to record the result on a plurality of outgoing tapes, one of said devices consisting of a computer for transforming groups of assembled items of specific information into customer charges and to issue said charges in billable form, a supervisory circuit for said computer for determining the form, composition and disposition of a call entered into said computer, consisting of a progress recording means for checking off the items of information comprising a call as they are entered, an input class register for registering a primary and secondary classification of an incoming call from indications included in said entered items of information, means for recognizing the end of the incoming items of information for each call whereby it may be established that less than, exactly the proper number or more than the proper number of items of information have been registered therein, means for registering indications of irregularity in a call and an output control means jointly controlled by said elements.

2,615,629
RECORD CONTROLLED MACHINE COMBINATION
Jonas E. Dayger, Binghamton, Orville B. Shafer, Owego, Edwin R. Wooding, Johnson City, Joseph M. Sarley, Binghamton, and James V. Williams, Jr., Poughkeepsie, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 12, 1950, Serial No. 200,342
22 Claims. (Cl. 235—61.9)

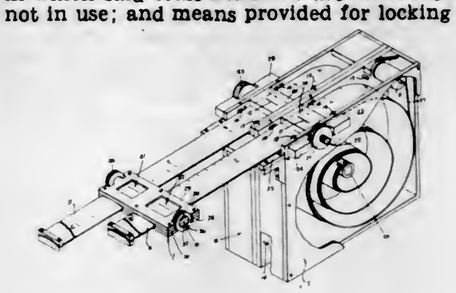


13. In a device of the class described, two cyclically operating machines, each having its own driving means unsynchronized with that of the other; a pair of storage entry devices in a first one of the machines; means for reading data out of said storage entry devices, comprising a single channel of wires and relay means for coupling said storage entry devices alternately to said channel wires, said relay means having two coils each adapted to shift said relay means to a different one of two conditions; means for energizing the two coils of said relay means alternately, comprising impulsing means in the second of said machines, operating at a certain time in the cycle of said second machine, a second relay means having points to gate said impulse to either of the two coils of said first relay means, and a second impulsing means operating at a certain time in the cycle of said first machine to impulse said second relay means; a third impulsing means in said second machine operating at a different index time from said first impulsing means, means normally rendering said third impulsing means ineffective, and means controlled by the phase relationship of said two machines to render said first impulsing means ineffective and to render said third impulsing means effective to impulse one of the coils of said first relay means.

2,615,630
STRUCTURAL FORM OF SLIDE RULES
Arthur Frederick Eckel, Inglewood, Calif.
Application February 5, 1949, Serial No. 74,738
18 Claims. (Cl. 235—71)

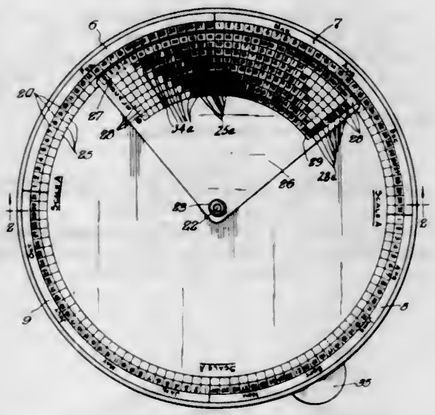
1. A slide rule comprised of a plurality of transversely bowed collable scale members, a cursor

in which said scale members are housable when not in use; and means provided for locking each



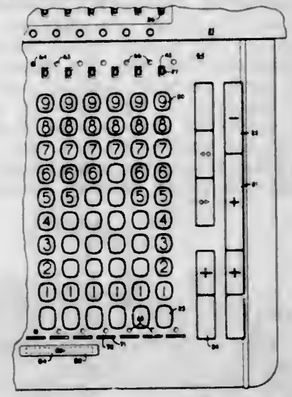
scale member in position in the cursor during calculating operations.

2,615,631
COMPUTATION CHART
Aaron I. Sorrels, Chicago, Ill.
Application July 3, 1947, Serial No. 758,764
3 Claims. (Cl. 235—88)



1. In combination, a computation chart comprising a flat circular base having a plurality of graduations, in continual alignment adjacent the marginal edge thereof; a plurality of calendar dates reading from left to right and comprising a plurality of months arranged in a plurality of groups having a similar ending as to the number of days therein, and another group of months directly following having a group of months each having a similar number of days but at variance with the said first named group; an arcuate indicator rotatably mounted at the center of said circular base; graduations at the marginal edge of said rotatable indicator arranged to be passed into radial alignment with the graduations carried by said circular base and reading from left to right and corresponding with calendar monthly dates from 28 days to 31 days; a menstruational table comprising a plurality of concentric rows comprising seven (7) rows, each of a normal duration numbering from (24) twenty-four days to (30) thirty days arranged to read from right to left from the normal due date the particular length of the period selected; each of the foregoing periods having its twelfth to nineteenth margined in heavy separation lines; and the fifteenth day previous to the normal menstrual period arranged within a circular margin indicating the date of conception.

2,615,632
DECIMAL POINT INDICATOR FOR CALCULATING MACHINES
Anthony B. Machado, San Leandro, Calif., assignor to Friden Calculating Machine Co., Inc., a corporation of California
Application March 15, 1949, Serial No. 81,495
8 Claims. (Cl. 235—145)



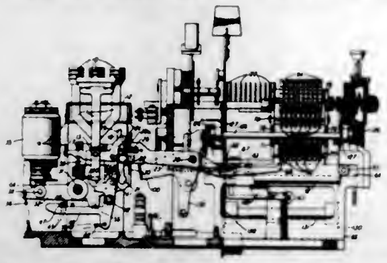
1. In a machine of the class described having a keyboard comprising a plurality of rows of depressible amount keys, and a cover plate for said keyboard, the combination of a keyboard set-up indicator located in alignment with each row of keys and lying beneath an aperture formed in said cover plate for visually indicating the numerical value of the key depressed in each row of keys, and a decimal point indicator comprising a member rotatably mounted under said cover plate and extending between each row of keys and between each pair of adjacent set-up indicators, each of said members having two indicator parts, each including two colored surfaces the first of which is of the same color as said cover plate and the second of which is of a distinctly different color, said cover plate having a pair of apertures located immediately over each of the indicator parts of said members, one of said apertures of each pair being located at the end of the associated row of keys which is removed from said keyboard indicator and the other aperture of each pair being located adjacent to said keyboard indicator thereby providing a decimal point indicating means for simultaneously marking off the rows of keys and also the keyboard indicators.

3. A machine as defined in claim 1 which includes means for simultaneously restoring all of said members from the position in which said second colored surfaces are visible through said apertures to the position in which said first colored surface is visible therethrough.

2,615,633
TEN-KEY KEYBOARD MECHANISM FOR ACCOUNTING MACHINES
Frank J. Furman, Endicott, Harold L. Read, Vestal, and Harold J. Kistner, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 16, 1950, Serial No. 195,956
2 Claims. (Cl. 235—145)

1. In a ten-key keyboard mechanism, the combination of a plurality of digit keys, a step-by-step movable pin carriage carrying several longitudinal series of digit stop pins, a series of pivoted pin raising levers, each having a free end which is rocked for elevating the associated digit stop

pin of the effective longitudinal series, and an opposite end which is actuated, a first bail for actuating said opposite end of a selected pin raising lever, a series of connecting members each pivoted on the opposite end of a related pin raising lever and adapted to engage said bail, a series of pivoted arms each pivotally connected to the related digit key to be rocked thereby and having a part engaging the related connecting member for rocking the latter into engagement with said first bail, a light spring connected between each connecting member and the related pin raising lever in such manner that it causes each connecting member to be normally adjacent said part of a related arm so that when an arm is rocked by the depression of a digit key its associated part engaging the related connecting member rocks the latter against the action of said



light spring to cause the connecting member to engage the first bail, a solenoid for rocking said first bail, a separate second bail actuated by the keys, contact closing means actuated by said second bail for energizing said solenoid to rock said first bail after the engagement of a connecting member with said first bail and through the connecting member actuate the opposite end of the associated pin raising lever to cause its free end to elevate a digit stop pin of the effective longitudinal series having a digital value corresponding to the depressed key, and means operated by said first bail to disable said contact closing means to effect the deenergization of said solenoid after the elevation of a selected digit stop pin.

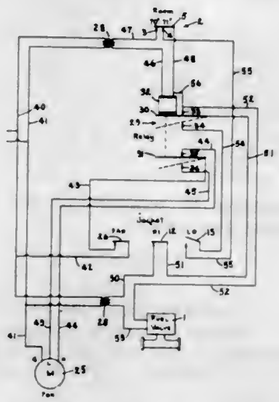
2,615,634

FURNACE CONTROL DEVICE

Frank Harbin, Jr., Holland, Mich., assignor to Home Furnace Company, Holland, Mich., a corporation of Michigan

Application October 2, 1950, Serial No. 187,863
2 Claims. (Cl. 236—9)

1. The combination with a room heating system having a furnace with an electrically controlled single stage burner therefor, and a two-speed electric air circulating fan, of a control device comprising a room thermostat having two electric contact breakers operated by a thermostatic element to open and close at different temperatures, a furnace temperature controlled thermostat having two electric contact breakers operated by a thermostatic element to open and close at different temperatures to control the operation of the burner, said furnace thermostat also having a third contact breaker operated by the said thermostatic element to control operation of the fan, a single relay switch having two synchronously moving switch members, each making and breaking two circuits, one of said switch members being in the burner control circuit and the other in the fan control circuit, the lower temperature room thermostat contact breaker controlling energization of said relay switch which, when energized, closes the circuit through the higher temperature furnace thermostat circuit breaker to operate the furnace burner and also closes the high speed fan circuit through the furnace thermostat fan contact breaker, said relay switch, when deenergized, closes the circuit through the lower temperature furnace thermostat circuit breaker to operate the furnace



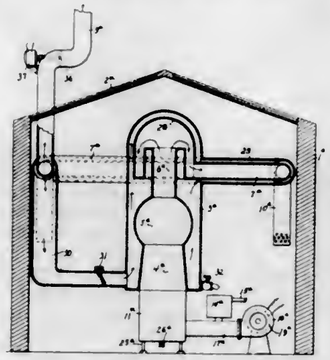
burner, and also closes the low speed fan circuit through the furnace thermostat fan circuit breaker, the higher temperature room thermostat circuit breaker being in series circuit with the lower temperature furnace thermostat circuit breaker.

2,615,635

HOTHOUSE, HOTBED, AND DOMESTIC HEATING SYSTEM

Joseph Treunch Norman, Huntington Mills, Pa.

Application November 15, 1948, Serial No. 60,051
1 Claim. (Cl. 237—56)



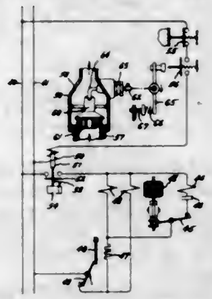
In a heating system for a hot house, the combination of a walled building and a hot water furnace having a boiler and firebox, a pipe connected to the firebox for conveying the products of combustion extending in a horizontal plane about the walls of said building, a stack connected to said pipe for conducting the products of combustion to atmosphere, a hot water pipe surrounding said first mentioned pipe, said hot water pipe having the ends thereof connected to said boiler, and cold air pipes connected to said first mentioned pipe and extending downwardly therefrom in parallelism to said boiler, said cold air pipes being open at their lower ends for conducting cold air to said first mentioned pipe.

2,615,636

WASTE DISPOSAL APPARATUS WITH TIME DELAY SWITCH

James H. Powers, Westport, Conn., assignor to General Electric Company, a corporation of New York

Application May 19, 1949, Serial No. 94,154
1 Claim. (Cl. 241—36)



In combination with a waste disposal appliance including a comminuting casing having comminuting means therein and a drain beyond said comminuting means into which the comminuted material is fed from said casing, an electric motor for driving said comminuting means, and a water supply conduit system for supplying water to said casing to aid in the operation of said comminuting means in comminuting waste material and disposing it into said drain, of an electro-responsive time delay switch which when energized moves in a predetermined time interval to one controlling position and when de-energized moves instantaneously to another controlling position, connecting means connecting said switch in the energizing circuit of said motor to energize the motor to operate said comminuting means when said switch moves to said one position and to de-energize said motor to stop said comminuting means when said switch moves to said other position, and a fluid responsive switch in said conduit system connected to control the energization of said time delay switch to energize it only when there is a predetermined minimum volume of water flowing in said system to said casing, whereby said motor is energized to operate said comminuting means a predetermined interval of time after said predetermined minimum volume of water flowing to said casing has been established, and is de-energized to stop said comminuting means instantly upon cessation of flow of at least said predetermined minimum volume of water in said system.

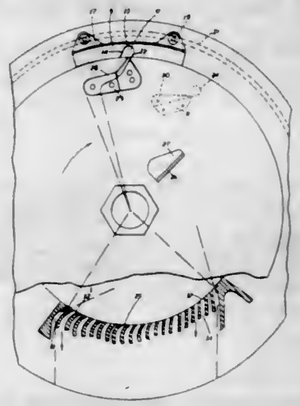
2,615,637

CYCLONE DISINTEGRATOR

Adam Bittner, London, England, assignor to Cyclomat Dominion Corporation Limited, Douglas, Isle of Man, a company of Isle of Man

Application September 20, 1950, Serial No. 185,785
In Great Britain November 24, 1949
12 Claims. (Cl. 241—39)

1. A disintegrating apparatus comprising a rotor; a peripheral stator, within which said rotor can rotate, having an annular set of pockets inclined forwards in the direction of rotation of said rotor; and a set of vanes for guiding material to be disintegrated into said pockets which vanes are mounted on said rotor adjacent the periphery thereof and are bounded front and rear by surfaces which change direction as they extend away from the axis of said rotor and have inner portions, substantially tangential to radii drawn from the rotor axis, merging in a smooth curve with an outer portion inclined at substantially the same angle as the entry faces of said pockets.

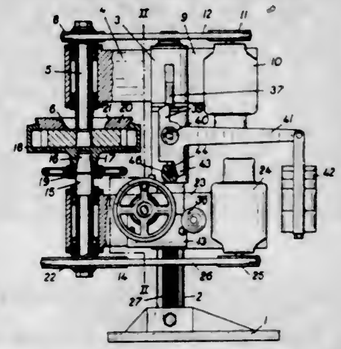


2,615,638

GRINDING APPARATUS

Erik Stephansen, Bestun, Oslo, Norway, assignor to Papirindustriens Forskningsinstitutt, Oslo, Norway

Application April 5, 1949, Serial No. 85,690
In Norway December 17, 1946
1 Claim. (Cl. 241—199)



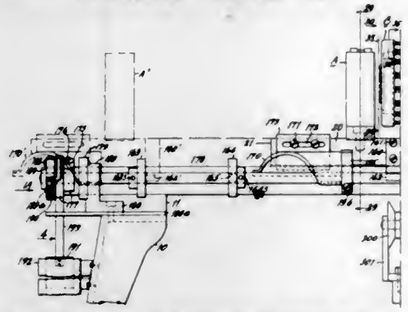
Grinding apparatus of the kind described, comprising a vertical spindle, two horizontal arms turnably mounted relatively to each other on said spindle intermediate their ends, two motors, one carried by each one of said arms at one end thereof, a grinding roll rotatably mounted on one of said arms at the end opposite said motor carried by said arm, a case rotatably mounted on the second of said arms at the end opposite the motor carried by said arm and adapted to enclose said grinding roll during operation, belt-and-pulley connections between each of said motors and said grinding roll and said case respectively, a third arm secured to said arm carrying said grinding roll and extending substantially perpendicular to said arm, a horizontally extending arm pivotally mounted on said spindle and having a projection thereon contactable with said third arm and weight means carried at the free end of said horizontally extending arm, said horizontally extending arm being adapted by coaction between said projection and said third arm due to said weight for adjusting grinding pressure between said grinding roll and said case by varying said weight.

2,615,639

MACHINE FOR WINDING ARMATURES

Edward W. Collins, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 23, 1949, Serial No. 134,781
17 Claims. (Cl. 242—13)



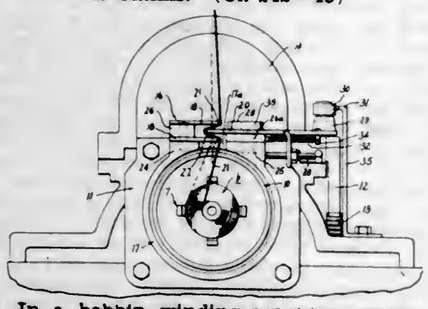
1. A machine for simultaneously winding armature coils on a slotted core mounted on an armature shaft, said machine comprising; a fixed threader having radially disposed tubes, the inner ends of which provide shoes in an annular row and adapted to be received respectively by core slots, said tubes receiving wires from supply spools, a carriage track supporting the threader, a carriage supported and guided by the track and movable parallel to the threader axis, a chuck rotatably supported by the carriage and located on one side of the threader and adapted to grip the armature shaft and to support it in alignment with the threader, means for controlling the chuck for gripping or releasing the shaft, a clamp supported by the carriage on the other side of the threader and adapted to receive and grip the core when left in position on the clamp side of the threader tubes, after the chuck has been conditioned for release of the shaft, means for tightening or releasing the clamp, means for moving the carriage in either direction longitudinally with the chuck and means for rotating the chuck in either direction.

2,615,640

YARN TENSIONING MEANS FOR BOBBIN WINDING MACHINES

Russell P. Drake, Caledonia, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application March 14, 1947, Serial No. 734,675
12 Claims. (Cl. 242—45)



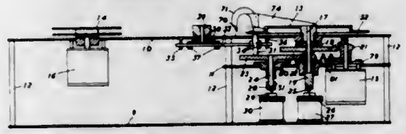
1. In a bobbin winding machine, means for rotatably supporting a core upon which a strand of yarn is to be wound, a yarn traversing device operative upon the strand as it is wound on the core so as to wind the same in successive conical layers with the speed of the strand increasing and decreasing with the diameter of the layer and yarn tensioning means to vary the tension on the strand according to changes in the speed of travel thereof, said tensioning means including a normally stationary member having an edge surface extending lengthwise of the core at one side thereof and inclined with respect to the axis of the core so as to deflect the strand from its normal path of travel varying amounts determined by the position of the strand lengthwise of such member, and an additional longitudinally extending member overlapping the first-mentioned member, the traversing device including means to move the strand lengthwise of the members and the core.

2,615,641

MAGNETIC TAPE SOUND RECORDING AND REPRODUCING APPARATUS

Philip Bodley Scott, Gerrards Cross, England, assignor of one-third to John Reginald Bryans and one-third to Cyril Ernest Stearns, both of London, England

Application August 22, 1951, Serial No. 243,133
In Great Britain August 29, 1950
9 Claims. (Cl. 242—55)



1. Sound recording and reproducing apparatus of the type employing a magnetic tape as the sensitive element and including a tape-take-up spool and a tape-wind-off spool, an electric motor, transmission means providing two alternative driving connections from the motor to the take-up spool, one such connection being of fixed ratio giving the spool a relatively high speed for a given motor speed, and the other including adjustable frictional gearing and means for adjusting the ratio of the last mentioned gearing in a continuously variable manner to give the spool any selected speed within a range of relatively low speeds for the same given motor speed, clutch means for engaging and disengaging each transmission connection, selector control means for such clutch means enabling either such connection to be engaged selectively and also enabling both to be disengaged simultaneously, means for applying a torque to the wind-off spool in the sense opposing wind-off and torque-control means for reducing said torque to a relatively low value as is appropriate for partially braking the wind-off spool and maintaining tension on the tape, and for enabling the maximum available torque to be applied for rewinding purposes, and means interconnecting said torque-control means with the clutch control means for applying reduced torque to keep the tape under tension when the driving motor is connected to the take-up spool and for disconnecting the driving motor from the take-up spool when the maximum re-winding torque is applied to the wind-off spool.

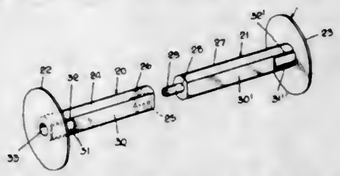
2,615,642

STRIP WINDING SPOOL

Fred R. Schulz, Berkeley Heights, N. J., assignor to Sondon Systems Corporation, Red Bank, N. J., a corporation of New Jersey

Application April 7, 1950, Serial No. 154,522
3 Claims. (Cl. 242—70)

1. A spool for quick removal of a strip or sheet wound thereon, said spool comprising a pair of spool halves, each half having a core with a disc at one end, means at adjacent end portions of the cores for detachably coupling and keying the same, the cores of said spool halves having alined flat surfaces, and the disc end



portions of the cores having short slits registering with the flat surfaces for engaging corner portions of a strip or sheet to be wound on said spool.

2,615,643

REEL AND ADAPTER THEREFOR

Arthur Barsam, Jr., Los Angeles, Calif.

Application April 23, 1951, Serial No. 222,456
8 Claims. (Cl. 242—70)



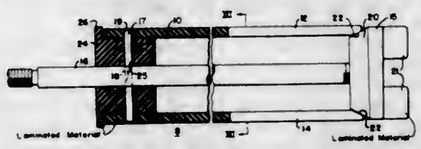
2. A reel of the class described which includes: a first reel side; a second reel side; two-part spindle means connected to said reel sides for holding said reel sides in spaced parallel relationship, said spindle means being formed to seat a spool thereon and to receive a spindle shaft; and latching means mounted on said spindle means and operatively associated with said spindle shaft, said latching means being held by said shaft in a position locking said spindle parts together, and being movable to a position releasing said spindle parts upon withdrawal of said shaft.

2,615,644

EXPANDING MANDREL

Vern E. Enz, Jeannette, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 12, 1950, Serial No. 184,494
5 Claims. (Cl. 242—72)



1. A rotatable mandrel comprising, in combination, a tube formed of a plurality of layers of fibrous material impregnated with a resinous binder, the tube having a plurality of slots extending lengthwise from one end, the slotted end of the tube having a beveled end surface, expanding means having a truncated cone member of impregnated fibrous material the slope of whose side wall corresponds to the slope of said beveled end surface, the side wall of the cone being so disposed as to frictionally engage said beveled end surface of the tube to apply pressure thereto, the cone and tube of impregnated fibrous material having a coefficient of friction of between 1.0 and 1.5 at break away whereby the frictional engagement of the cone with the beveled end surface of the tube prevents movement of the cone relative to the tube when the mandrel is rotating, and means disposed to support the expanding means in said frictional engagement with the slotted end of the tube, the expanding means being disposed for movement on the supporting means to vary the pressure applied to the slotted end portion of the tube to control movement thereof.

2,615,645

APPARATUS FOR PRODUCING COILS OF NARROW STRIP FED THERETO FROM A SLITTER

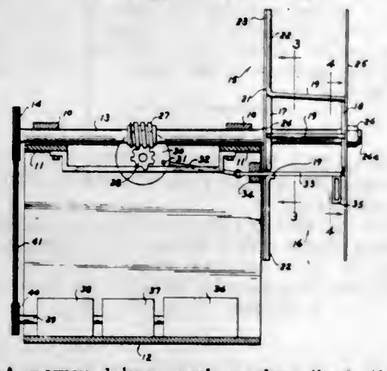
Hjalmer A. Ray, Fairhaven, Mass., assignor to Revere Copper and Brass Incorporated, New York, N. Y., a corporation of Maryland

Application January 17, 1950, Serial No. 138,965
5 Claims. (Cl. 242—78)



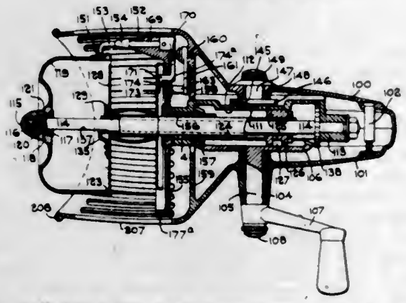
1. Apparatus for forming coils of narrow metal strip fed longitudinally to said apparatus from a slitter for dividing an elongated wide metal strip longitudinally into a number of simultaneously formed elongated narrow strips, which apparatus comprises a rotary blocker for winding such narrow strips simultaneously into pancake coils simultaneously with their being formed, which blocker has a free end and has means adapted releasably to secure the ends of said strips thereto for effecting such winding and to permit detachment of said ends therefrom for permitting such coils to be slid from said blocker over said free end, thin spacing disks having openings adapting them to be carried by said blocker between said coils, rigid members having openings adapting them to be carried by said blocker at opposite ends of the group of coils wound thereon, releasable members adapted to secure said rigid members to each other after the coils are wound for clamping the coils between them, at least one of which releasable members provides means for attachment of the outer free ends of the coils thereto for preventing unwinding of such coils, whereby one of said rigid members may be placed on said blocker and the ends of the narrow strips coming from the slitter may be successively secured to said blocker with the spacing disks placed on the blocker between them and then the other rigid member may be placed on the blocker and the narrow strips wound into coils, and, upon completion of the winding operation, the rigid members may be secured to each other by said releasable members and the outer ends of the coils secured to one of said releasable members to form an assembly which may be removed as a unit from the blocker, and the coils may be successively removed from said assembly and bound by supporting the assembly with its axis disposed vertically and, after removing all said releasable members except the one to which the outer ends of the coils are secured, by successively sliding the coils flatwise one by one from the spacing disk beneath it and binding it while on said spacing disk and while the outer end of the coil is secured to such releasable member.

2,615,646
REEL FOR COILING SHEET METAL STRIPS
Roland Disler, Detroit, Mich.
Application August 27, 1951, Serial No. 243,890
3 Claims. (Cl. 242—78)



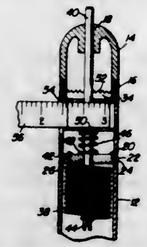
1. A power-driven reel as described, the reel comprising a shaft threaded at one end, a plate axially mounted thereon, said plate having a tapered rim, a spider similarly mounted on the shaft in a spaced relation to the plate, the diameter of the spider being smaller than that of the plate, said spider including a plurality of radially-disposed prongs with open spaces therebetween, a backing flange for said plate, said flange being secured to the shaft for rotation therewith, a plurality of rods extending from the tapered rim of the plate to the outer ends of the prongs of said spider to form a cage-like hub tapering in the direction of said spider, a circular flange abutting the outer surface of the spider, said flange being removably mounted on said shaft, and a nut threaded upon the end of the shaft to retain said last-named flange in place.

2,615,647
FISHING LINE REEL
Philip Charles Palmer, Alvechurch, and Herbert William James, Redditch, England; said James assignor to said Palmer
Application January 15, 1949, Serial No. 71,182
In Great Britain January 21, 1948
4 Claims. (Cl. 242—84.4)



1. A fishing line reel comprising a body, a driving spindle adapted to be turned by hand, a normally stationary spool spindle, a spool on said spool spindle having flanges at its ends, said spool being adapted to have a line wound thereon and being mounted on the spool spindle for axial reciprocation without rotation, a cap of hollow cup-like form mounted concentrically with the spool and having its open end disposed adjacent the forward flange of the spool, said cap having a circular rim adjacent the spool and of larger diameter than that of the spool flange at the end nearest the cap, said rim forming a guide for the line as it leaves the spool or is wound thereon, a line pick-up consisting of an element adapted to engage the line at one side only, said pick-up element being movable into and out of line-engaging position, a carrier disc rotatably mounted on said spool spindle, transmission means connecting the driving spindle with said carrier disc, said pick-up element comprising an arm on a pivot extending through said carrier disc and disposed on an axis parallel to the axis of the spool, a pick-up actuating lever on said pivot extending partly across one face of the carrier disc, a trip lever pivoted to the body and having spaced projections for engagement by the end of said pick-up actuating lever as the carrier disc rotates, stops on the body cooperating with said trip lever to limit its pivotal movement, said trip lever moving said pick-up actuating lever and the pick-up arm when the carrier disc is rotated in the direction reverse to the winding direction, and means driven by the driving spindle for reciprocating the spool.

2,615,648
MEASURING TAPE REEL DEVICE
William I. Carlson, Detroit, Mich.
Application April 24, 1950, Serial No. 157,798
1 Claim. (Cl. 242—84.9)



A device of the character described comprising a tubular casing open at one end and having a longitudinal slot therein, an apertured cap removably mounted on the open end of the casing and including an externally reduced lower portion secured in said casing, teeth on the lower end of the cap, an apertured partition fixed in the casing below the slot, a shaft rotatably and slidably mounted in the partition and cap and projecting upwardly from the latter, a disk fixed on the shaft at a point intermediate the ends of said shaft, a substantially cup-shaped member fixed on the shaft in spaced relation to the disk and providing, in conjunction with said disk and the shaft, a reel slidable and rotatable in the casing, teeth on the top of said cup shaped member engageable with the first named teeth for releasably locking the shaft against rotation, a coil spring encircling the shaft between the partition and the disk for yieldingly urging the second named teeth into engagement with the first named teeth, a measuring tape wound on the reel and operable in the slot, and a rewinding spring for the tape having one end anchored to the partition and its other end anchored to the shaft.

2,615,649
BELT TYPE SPINNING REEL
Robert W. Flewelling, Tacoma, Wash.
Application July 26, 1949, Serial No. 106,879
5 Claims. (Cl. 242—96)

1. A belt type spinning reel, consisting of: a base plate; a spool spindle, extending normally from one face of said base plate, and non-rotatively secured to said base plate; said base plate having an annular spool recess formed in said base plate and concentric to said spindle; a large fishing line spool, having an annular line receiving groove and a connecting web, adapted to be seated concentrically in said spool recess; a drive plate, having an operating handle, concentrically disposed on said spindle on the opposite side of said spool from said base plate; a large friction washer mounted on said spindle disposed between said spool web and said drive plate; two spaced bearings on said spindle, one between said spool



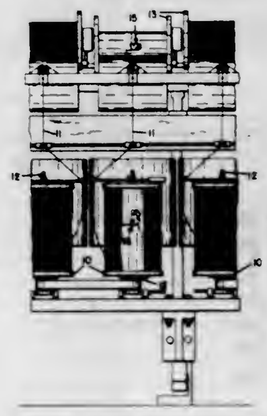
web and said base plate and one on the outside of said drive plate; a thrust washer and an adjusting nut on the free end of said spindle adapted to co-act to impose pressure on said drive plate, said spool web, said bearings and said friction washer; outwardly directed, beveled drive means disposed on the face of said spool web toward said drive plate; said drive plate having holes therein adapted to engage said drive means for a clicking action under control of said adjusting nut; and line guide means disposed in the plane of said spool.

2,615,650
BOBBIN
Thomas E. Betner and Joseph R. Townsend, Wayne, Pa., assignors to Sonoco Products Company, a corporation of South Carolina
Application October 23, 1948, Serial No. 56,234
2 Claims. (Cl. 242—119)



1. A bobbin providing firm driving engagement with a tapered spindle of a textile machine and easily doffed therefrom, comprising a tubular body member having a bore adapting said body member for disposition over said spindle, and longitudinally extending axial ribs formed interiorly of said bore and spaced about said bore adjacent the upper end thereof for driving engagement with said spindle, said ribs defining at their inner faces a conical surface of revolution coaxial with the bore of said body member and having an apex angle that is slightly greater than the taper angle of said spindle.

2,615,651
SPOOL HAVING THREAD FASTENING MEANS
James Elwood Johnson, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application December 2, 1948, Serial No. 63,167
2 Claims. (Cl. 242—125)



1. In combination, a core upon which thread or the like is adapted to be wound, a bifurcated means positioned on said core in frictional engagement therewith and extending over a portion of its surface, said means having a main body portion and at least two members extending in frictional contact about the periphery of the core the axial sides of said members being transverse to the axis of said core, the axial outer side of one of said bifurcated members having a portion forming an acute angle between a plane through the axis of said core and the main body portion of said bifurcated means, said angle being taken between the extension of said plane on the same side as said bifurcated member.

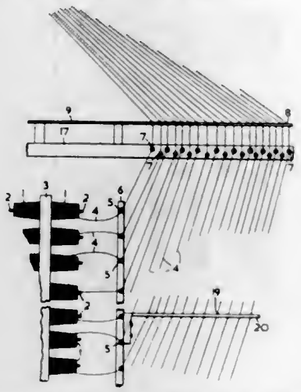
2,615,652
YARN PACKAGE SUPPORT
James Elwood Johnson, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application March 2, 1950, Serial No. 147,255
3 Claims. (Cl. 242—130)



1. A yarn package holding and securing mechanism comprising, an axially movable shaft, a

support for said shaft, a yarn package core securing means being axially compressible and transversely expansible and positioned about said shaft, said securing means being adapted when transversely expanded to hold and secure said core to said shaft, adjustable means about said shaft for adjustably locating said compressible and expansible means, and cam means reacting against said support for transversely expanding said compressible means against the inner wall of said core.

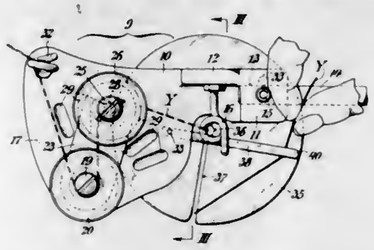
2,615,653
CREEL
Arthur A. Atkins, Coventry, Harry M. Averns, Allesley, Coventry, and Arthur Walker, Coventry, England, assignors to Courtaulds Limited, London, England, a British company
Application January 24, 1950, Serial No. 140,234
In Great Britain February 3, 1949
3 Claims. (Cl. 242—131)



1. A warping creel comprising a frame having a package supporting part and a discharge part, said package supporting part being spaced from said discharge part, relatively long lengths of yarn running between said parts having a tendency to sag and tangle with one another, a number of pegs arranged in tiers on the package supporting part of the frame with a plurality of pegs in each tier for supporting yarn packages, a first set of tension devices, like in number to the pegs, mounted on the package supporting part of the frame, one tension device being located in close proximity to each peg for that peg, the creel being adapted to permit the yarns to pass directly from the yarn packages to said first set of tension devices, in combination with a number of horizontal bars at the delivery part of the creel in alignment with the tiers of pegs and spaced from said pegs, and a second set of tension devices like in number to the first set mounted on the horizontal bars, each yarn from a package being held in tension substantially horizontally between its tension device near the pegs at the package supporting part and a corresponding tension device on the horizontal bars of the discharge part.

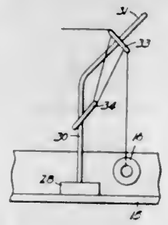
2,615,654
YARN TENSIONING DEVICE
Thomas F. Suggs, Gastonia, N. C., assignor to Cocker Machine & Foundry Company, Gastonia, N. C., a corporation of North Carolina
Application April 22, 1950, Serial No. 157,510
4 Claims. (Cl. 242—150)

1. In a yarn tensioning device, a horizontal bracket; fixed vertical and horizontal axis yarn guide eyes at the top of the plate respectively adjacent opposite ends thereof, a horizontally-arranged circular baffle plate portion at the bottom of the bracket in alignment with the vertical axis guide eye having a central thread aperture approached through a radial slot; a pair of superposed tension disks free to rotate about a post upstanding from the bracket at an intermediate



point offset laterally from a vertical plane containing the two guide eyes; an arm fulcrumed about the post beneath the disks and reaching into the interval between the guide eyes; a second pair of freely rotatable superposed tension disks carried at the distal end of the arm; and means for holding the arm set in selectively different adjusted positions about said post.

2,615,655
YARN TENSIONING DEVICE
Archibald T. Guild, Saratoga Spa, N. Y., assignor to Van Raalte Co., Inc., New York, N. Y.
Application April 6, 1948, Serial No. 19,222
1 Claim. (Cl. 242—153)

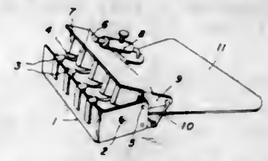


In a yarn or strand tensioning device, upright supporting means, means rigid with said support means and comprising a ring disposed adjacent the upper end thereof, and a weight ring disposed about said support means for free vertical movement therealong below said rigid ring, whereby a thread passing over one side of said rigid ring, through the weight ring and over the other side of said rigid ring is tensioned by the weight of the ring suspended thereby.

2,615,656
YARN BRAKE
Lambertus te Strake, Deurne, Villa Gelria, Netherlands
Application April 6, 1950, Serial No. 154,268
In the Netherlands September 10, 1949
2 Claims. (Cl. 242—154)

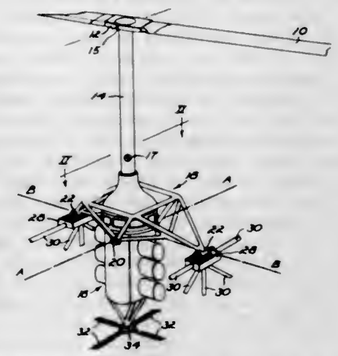
1. In a yarn brake for creels and other textile machines having two jaws one of which is pivotally mounted and the jaws being movable towards each other, and provided with projections which are so arranged that the projections of one jaw extend between those of the other jaw and guide a thread pressed between all the projections with

friction at various places according to a zigzag line, the improvement consisting in a movable plate connected to said pivotally mounted jaw,



said movable plate being oscillatable in the air surrounding the machine and constituting an air brake for reduction of oscillation of the pivotal jaw.

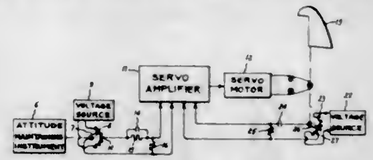
2,615,657
HELICOPTER ENGINE-ROTOR SUPPORT
Arthur M. Young and Bartram Kelley, Buffalo, N. Y., assignors to Bell Aircraft Corporation, Wheatfield, N. Y.
Application August 28, 1946, Serial No. 693,484
4 Claims. (Cl. 244—17.27)



1. In a helicopter aircraft having a body frame, a power unit including an engine and a shaft extending therefrom and a helicopter rotor carried by said shaft exteriorly of said frame, said unit having a center about which said unit would tend to rotate if free of restraint when under the impact of a force directed laterally against said rotor, means universally mounting said unit in said frame to hold it and to guide it to rock universally as a unit within limits about a point coinciding substantially with said center, said means comprising a universal pivoting means for connecting said unit to said aircraft, said pivoting means having its center of universal pivoting substantially coinciding with said center about which said unit would tend to rotate, and resilient means connected to said unit at a point spaced from said center for elastically restraining rocking of said unit relative to said body frame.

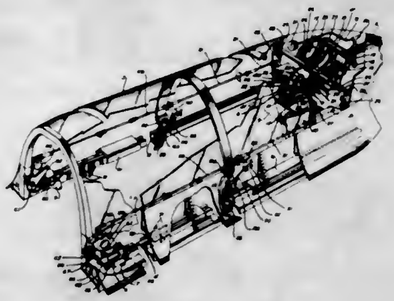
2,615,658
STABILIZATION SYSTEM IN AIRCRAFT AUTOPILOT
Charles M. Young, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 17, 1948, Serial No. 39,345
14 Claims. (Cl. 244—77)

1. In an automatic stabilizing system for a craft having a movable control surface for controlling the attitude of an axis of said craft relative to a desired attitude, a servomotor for actuating said control surface means, a servo amplifier system for controlling said servomotor in accordance with control signals applied to said amplifier system, means including an attitude reference instrument for producing a first control signal variable in polarity and magnitude in response to the direction and magnitude of deviations of said craft relative to said desired attitude, a resistance-reactance network utilizing said first control signal to produce a second control signal advanced in phase up to 90° leading with respect to said first control signal, means for producing a follow-up signal variable in polarity and magnitude in response to the direction and magnitude of the displacement of said control surface, a resistance-reactance network having a time constant substantially equal to the



time constant of said craft and connected to utilize said follow-up signal to produce a third control signal advanced in phase by up to 90° with respect to the variations in the displacement of said control surface, said network being effective to substantially eliminate from said third control signal any components corresponding to the components in said follow-up signal which are responsive to trim settings of said control surface, and means for applying said control signals to said servo amplifier system such that said third control signal is introduced degeneratively with respect to said first and second control signals, whereby said craft is maintained in substantially fixed relationship to a desired attitude with substantially no hunting.

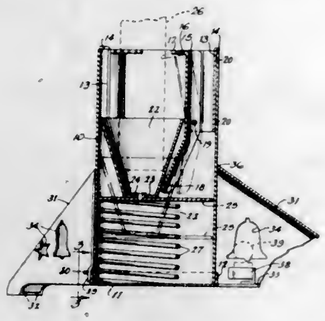
2,615,659
AIRCRAFT ENCLOSURE JETTISON SYSTEM
Ray D. Gardner, Jr., and Fred C. Bretcher, Los Angeles, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application March 26, 1949, Serial No. 83,539
20 Claims. (Cl. 244—121)



1. An enclosure jettison system for an airplane comprising jettison latches normally securing said enclosure in place on said airplane, latch release means connected to release said latches to loose said enclosure from said airplane when said release means is actuated, an extensible member positioned adjacent to and separate from said enclosure, and adapted to make abutting contact with said enclosure when partially ex-

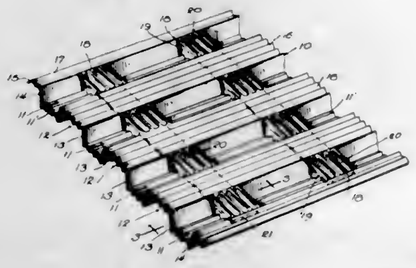
tended, power means connected to move said member to a fully extended position, when actuated, to force said enclosure away from said airplane when said latches are released, sequence control means connected to actuate, first, said latch release means and, second, said power means, and a single control element connected to operate said sequence control means as recited.

2,615,660
CHRISTMAS TREE HOLDER
Joseph Haumann, Chicago, Ill., assignor to Henry Hildebrandt, Chicago, Ill.
Application March 8, 1947, Serial No. 733,284
4 Claims. (Cl. 248—44)



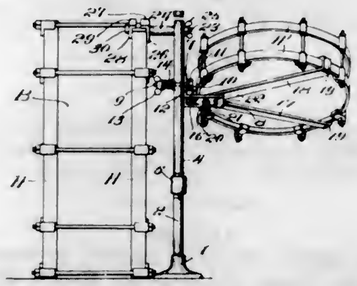
1. A Christmas tree holder comprising a container substantially triangular in cross section adapted to contain water, gripping levers in the container and pivoted intermediate their ends to the corners of the triangular container, a conical member in the container between the gripping levers and guided by the side walls of the container for receiving the end of the tree and engaging the lower ends of the gripping levers for forcing the upper ends thereof into engagement with the trunk of the tree.

2,615,661
METAL PALLET
Walton W. Cushman, Webb City, Mo.
Application August 28, 1947, Serial No. 771,129
4 Claims. (Cl. 248—120)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



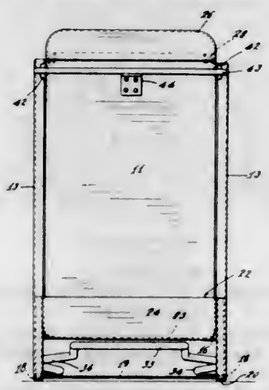
1. A single piece pallet of sheet metal having a series of upwardly opening channels and a plurality of downwardly opening channels extending transversely of the upwardly opening channels and in the same plane therewith.

2,615,662
DRUM STAND
Walter J. Sannebeck, Mexico, Mo.
Application December 17, 1947, Serial No. 792,243
1 Claim. (Cl. 248—124)



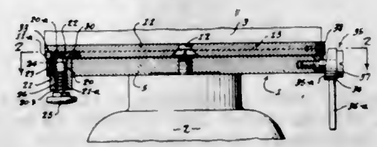
In a drum support, a base, a tubular upright extending upwardly from said base and provided with a plurality of spaced apertures therein, an L-shaped plate having a leg arranged contiguous to said upright, said leg having an opening therein, a bolt extending through said opening and through one of the apertures in said upright and provided with a head on end end thereof, a plurality of radially extending teeth arranged on the head for engaging corresponding teeth on said leg, a coil spring arranged on the free end of said bolt, a securing element for maintaining said spring on said bolt, said plate being provided with an angle portion, a pair of arms each having an end extending from said angle portion, the free ends of said arms being bent upon themselves, a struck up portion on said angle portion for coaction with the free ends of said arms, said angle portion being provided with a plurality of spaced openings, there being openings in said arms for registry with the openings in said angle portion, and a securing element extending through a selected pair of registering openings.

2,615,663
WASTE CAN CLOSURE OPERATOR AND SUPPORT
Bertis F. Hamilton, Columbus, Ind.
Application March 14, 1947, Serial No. 734,743
4 Claims. (Cl. 248—147)



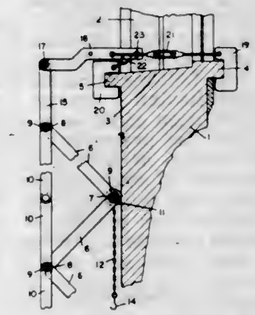
2. In a device of the type described, a shell having side and back walls and being open at its front and top, a container received in said shell and adapted to be withdrawn therefrom through the open front and top thereof, said container having an open upper end, a lid for closing the upper end of said container, said lid being pivotally supported on said shell adjacent the upper end of the back wall thereof, at least one of the walls of said shell being spaced outwardly from said container, and means for swinging said lid about its axis of pivotal support, said means comprising a lid-swinging link connected to said lid at an eccentric point and extending downwardly through the space between such container and shell-wall, and a pedal movably mounted near the bottom of said shell and operatively connected to the lower end of said link to effect lid-swinging movement of said link.

2,615,664
CAMERA MOUNT
Arthur E. Reeves, Los Angeles, Calif.
Application August 27, 1945, Serial No. 612,803
6 Claims. (Cl. 248—177)



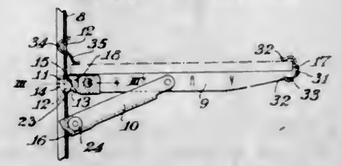
2. In a support for a camera, or the like, a table-like member, flanges fixed to said member and converging toward an end of the member to form a guide, said flanges having overhanging edges, a restraining means guided for movement to project above the member and resiliently urged to project above the member, said restraining means having a locking surface for engaging and urging an element slidable in said guide into wedging relationship with the flanges, and releasing means including a cam surface movable transversely of the direction of movement of said restraining means for urging said element out of wedging relation.

2,615,665
SAFETY LADDER BRACKET
Kirby Baxter, Cleveland, Ohio, assignor, by mesne assignments, of one-half to Evelyn M. White, Cleveland, Ohio
Application December 13, 1947, Serial No. 791,499
1 Claim. (Cl. 248—208)



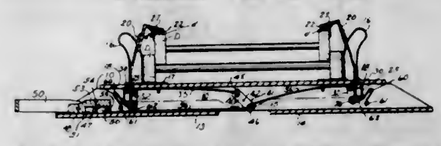
In a window bracket structure, the combination of a hook member assemblage provided with opposed inner and outer C-shaped hooks respectively adapted to embrace the inner and outer projections of a windowsill of a building, a generally horizontally disposed lever adapted to extend outwardly from the window of a building and to suspend a ladder from its outer end, the inner end of said lever being disposed between said opposed hooks, link means pivotally connected at its opposite ends to the upper portion of said outer hook and to the inner end of said lever, and other link means pivotally connected at its opposite ends to the upper portion of said inner hook and to said lever at a point between the inner and outer ends thereof whereby the weight of a ladder on the outer end of said lever is operative through said lever and both of said link means to draw said hooks toward one another.

2,615,666
SHELF SUPPORT
Charles Bernard Jones, Worcester Park, England
Application January 18, 1949, Serial No. 71,417
In Great Britain February 19, 1947
3 Claims. (Cl. 248—243)



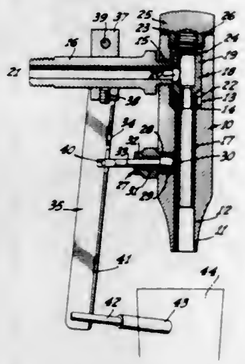
1. In a fitting for supporting a shelf or like member, the combination of a vertical strip having a plurality of spaced apart slots therealong, an arm having a hook-like rear end for insertion in one selected slot and provided with an opening inwardly of said end, a strut pivoted at its upper end to the arm and having means at its lower end for engagement in a slot below the rear end of the arm engaging said selected slot, means carried by the arm at its rear end for exerting pressure on the strip on each side of the arm said means including a pair of rigidly connected apertured plates, one on each side of the arm, a rotatable pin passing through said hole in the arm and the apertured plates, and an eccentric cam-part formed on said pin for engagement with a peripheral part of the aperture of one plate, whereby turning of said pin, through the cam-part, will move said plates towards or away from the vertical strip.

2,615,667
LADDER CLAMP
Merton Smith, Cleveland, and Leonard A. Stewart, Brooklyn Village, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo., a corporation of Missouri
Application December 3, 1948, Serial No. 63,364
4 Claims. (Cl. 248—361)



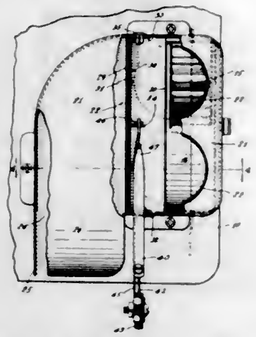
3. A ladder clamp for use with a frame member of channel formation having a web with top and bottom flanges, a pair of spaced ladder positioning members extending upwardly from the top flange, said ladder clamp comprising a pair of clamping members pivotally mounted on the web portion of the frame, a rocking operating device within the channel of the frame, links within said channel connecting oppositely movportions of the operating device with the clamping members, and means for rocking the operating device.

2,615,668
VALVE
Fred Ernest, Gardena, Calif.
Application January 20, 1948, Serial No. 3,340
4 Claims. (Cl. 251—5)



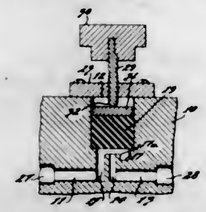
1. In a valve: a body having a passage therethrough and an enlarged bore defining a first shoulder with said passage, said body having a lateral port opening into said enlarged bore; an elastic sleeve through which fluids may flow, said sleeve having one portion extending within said passage, and having another portion extending within said enlarged bore, the internal diameter of said other portion being intermediate the internal diameter of said one portion and the said enlarged bore to form a second shoulder; and a tubular member in said sleeve within said enlarged portion and having an end bearing against said second shoulder to force said sleeve against said first shoulder; said tubular member having a lateral side port therein aligned with said body port.

2,615,669
VALVE FOR AUTOMOBILE BODY HEATERS
Edmund Ludlow, Columbus, Ind., assignor to Arvin Industries, Inc., a corporation of Indiana
Application July 8, 1949, Serial No. 103,653
1 Claim. (Cl. 251—17)



In a device of the type described, a hollow fluid-conducting member, a valve for controlling fluid flow through the hollow member, said valve comprising a plate having aligned ears at its opposite ends and an intermediate ear between and aligned therewith, means co-operating with the end ears for pivotally supporting the valve from and within the housing, an extended valve operator coincident with and movable along the axis of the valve's mounting, said intermediate ear having a non-circular opening, said operator having a twisted portion of non-circular cross-section slidably and non-rotatably received in said opening, and means for preventing rotation of said valve operator as it moves along said axis.

2,615,670
VACUUM VALVE
Herbert Nelson, Bloomfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 6, 1948, Serial No. 13,431
1 Claim. (Cl. 251—24)

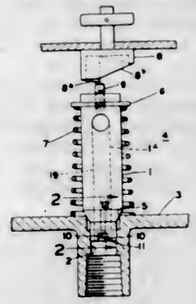


A vacuum valve comprising a casing having an inlet and an outlet duct adapted to be connected respectively to a vacuum source and a space to be evacuated, said casing having a bore extending at right angles to said inlet and outlet ducts, said inlet duct communicating with one end of said bore, a tubular member in said casing coaxial with said bore and communicating with said outlet duct, said tubular member terminating within said bore in a lip in a plane normal to the axis of said bore, said bore having an annular shoulder, said shoulder having a surface in a plane parallel to said first-named plane and spaced therefrom in the direction of the other end of said bore, a resilient plug snugly engaging the walls of said bore and having an annular portion at one end engaging said surface of said shoulder, said plug having a length for providing a relatively large mass whereby said plug is characterized by reduced flexibility and is urged away from said lip by said reduced flexibility when said valve is open, and means for flexing said plug into engagement with said lip for closing said valve, said means comprising a metal cylinder having one end engaging the other end of said plug, and a screw assembly including an axially movable shank having a pointed end engaging the other end of said cylinder with reduced friction and adapted to urge said cylinder against said plug to flex the same to close the valve, the sides of said cylinder being relatively close to the walls of said bore for free axial movement therein, said cylinder having a length for providing a uniform distribution of force to said other end of the plug and for preventing tilting of said cylinder, said length of said plug providing a relatively large area of snug engagement between the sides of the plug and the walls of said bore, whereby an appreciable portion of said area of snug engagement persists to prevent vacuum loss through said bore when said plug is flexed.

2,615,671
METERING VALVE
Walter S. Landon, deceased, late of Detroit, Mich., by Marion E. Landon, administratrix, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application May 15, 1947, Serial No. 748,297
3 Claims. (Cl. 251—34)

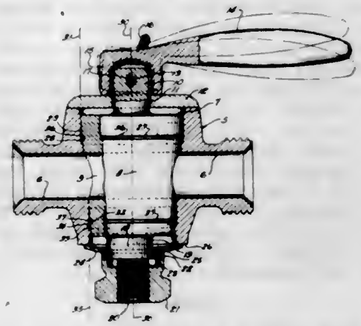
1. In a fluid metering valve, means for ingress of fluid, an opening for egress of fluid, a hollow

cylindrical valve stem closing said opening, said valve stem seating against a portion of said opening, spring means urging said valve stem toward an open position, a cam means cooperable with said valve stem to cause movement thereof, the bearing surface of said cam means having two or more slopes, said cam means being operable upon movement thereof to cause a variable rate of movement of said valve stem, said valve stem having a metering slot in the wall thereof for metering fluid, the wall of said valve stem also



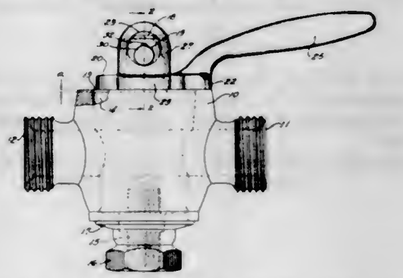
having two circular holes to compensate for the variable movement of said cam means, said holes being spaced circumferentially on said stem and overlapping longitudinally thereof at a point opposite the central portion of said slot, and the spacing of said holes being operable to cause a progressively increasing change in flow opening followed by a progressively decreasing change in flow opening thereby to effect an approximately uniform change of rate of discharge of said fluid per unit movement of said cam means.

2,615,672
SEAL FOR AXIALLY MOVABLE ROTARY PLUG VALVES
Ferdinand Hinrichs, Kenosha, Wis., assignor to Tri-Clover Machine Co., Kenosha, Wis., a corporation of Wisconsin
Application November 19, 1948, Serial No. 61,034
9 Claims. (Cl. 251—97)



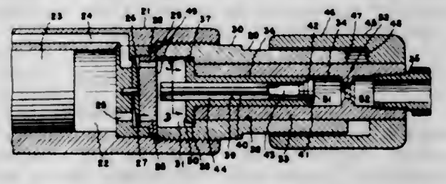
1. In a valve, a valve body formed with a fluid-conducting bore and with a transverse, tapered plug-receiving bore intersecting said fluid-conducting bore, said tapered bore being formed with an annular groove intermediate the length thereof and at one side of said fluid-conducting bore, said groove having a cylindrical bottom surface portion which is straight in an axial direction; an axially movable tapered plug in said tapered bore having a port adapted to be brought into and out of registration with said fluid-conducting bore; sealing means on said plug substantially less width than the width of said straight cylindrical surface portion in sealing engagement with the straight cylindrical surface portion of said annular groove, and means on said plug for retaining said seal against movement relative to said plug.

2,615,673
LIFT PLUG VALVE
Ferdinand Hinrichs, Kenosha, Wis., assignor to Tri-Clover Machine Co., Kenosha, Wis., a corporation of Wisconsin
Application February 7, 1951, Serial No. 209,747
3 Claims. (Cl. 251—97)



1. In a lift plug valve: a valve body formed with a tapered bore; a tapered plug cooperable with said tapered bore; a stem projecting axially from the large end of said plug; a bearing plate rotatably positioned on the valve body over the large end of the tapered bore; a handle for said bearing plate, said plate being formed with a central aperture through which the plug stem rotatably projects; a pair of upstanding bosses formed on said bearing plate on opposite sides of said plug stem, said bosses being formed with coaxial circular bores extending transversely therethrough; and a transverse pin carried by said stem and projecting substantially diametrically thereof into the circular bores of said bosses, the ends of said pin being circular in cross-section and having a diameter larger than the radius of said bores and substantially smaller than the diameter of said bores, whereby said circular bores present a cam surface of increasing slope to the pin ends.

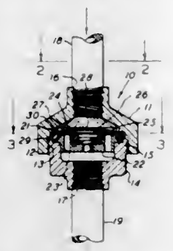
2,615,674
THROTTLE VALVE MECHANISM
Roy O. Allen, Athens, Pa., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application January 11, 1949, Serial No. 70,229
2 Claims. (Cl. 251—115)



1. A throttle valve mechanism, comprising a casing having a bore, a member slidable axially in the bore projecting from said bore and having a passage extending endwise therethrough for conveying pressure fluid through the member, a grip portion on the projecting portion of the member for manually imparting sliding move-

ment to said member, a valve seat in the passage, a valve in the passage to cooperate with the valve seat for controlling the flow of pressure fluid through the passage and being movable axially with the member, a stem on the valve projecting from an end of the passage, an abutment on the casing for the stem to hold said valve stationary during movement of the member in one direction for enabling the seat to move out of engagement with the valve and thereby permit the flow of pressure fluid through the passage, and opposed pressure surfaces on the valve and the member subjected to pressure fluid for moving the member in the opposite direction to place the valve seat into engagement with the valve.

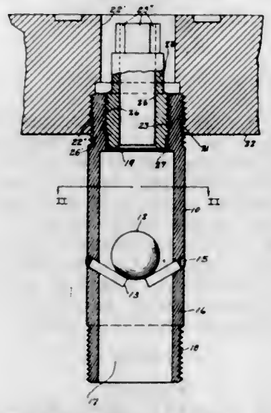
2,615,675
FLUID FUSE
Allen J. Mellert, Euclid, Ohio, assignor, by mesne assignments, to The Carpenter Manufacturing Corporation, Cleveland, Ohio, a corporation of Ohio
Application November 4, 1946, Serial No. 707,586
4 Claims. (Cl. 251—119)



1. In a fluid fuse, a resilient curved diaphragm constructed to snap from an open to a closed position and in so doing to change its arc of curvature, said diaphragm having a continuous arc of curvature extending over the complete diameter thereof and having a substantially centrally positioned aperture therein, a resilient O-ring supporting the edges of said diaphragm in a sealing position in the fuse, a member for engaging a center portion of said diaphragm to provide an open and a closed position for said diaphragm, said member engaging said diaphragm and surrounding the aperture therein to provide a closed diaphragm position, said O-ring being made of a band of material of circular shape in cross section and being free in the fuse for limited rolling movement to facilitate movement of said diaphragm from open to closed position, and means for pressing said diaphragm against said O-ring to seal the edges of said diaphragm but leave same free for limited transverse movement as occurs when changing the arc of curvature of the diaphragm.

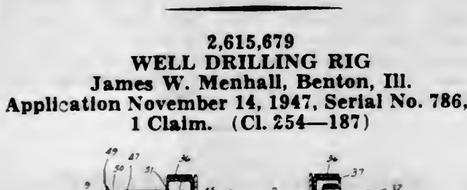
2,615,676
EXCESS FLOW CHECK VALVE
Joseph A. Neubauer, Pittsburgh, Pa., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware
Application September 25, 1948, Serial No. 51,280
1 Claim. (Cl. 251—121)

An excess flow check valve for mounting in a vertically extending aperture in a manway cover of a tank car wherein the aperture has a threaded lower portion, comprising, in combination, an elongated tubular valve housing having a passage therethrough with an inlet end and an outlet end, an exteriorly threaded outer portion at each end, an interiorly threaded portion at its upper end, said exteriorly threaded upper portion being threadedly received in said threaded portion of the aperture in the manway cover thereby positioning said tubular valve housing in a vertical position, four pins mounted in said housing at equal spacing about a horizontal plane passing through the housing at approximately midway between the ends thereof, said pins extending inwardly from the housing interior at an angle of 90° to each other and downwardly at an angle from said horizontal plane, a ball valve member of a diameter substantially less than the interior diameter of said tubular valve housing adapted to be inserted in and removed from said interior threaded end of the tubular housing and resting on said inwardly and downwardly extending pins in a position of rest, and an elongated tubular member having an internal diameter less than the diameter of said ball valve member and a threaded exterior portion adjacent one end screwed into the threaded interior end of said tubular valve housing, the opposite end from said threaded exterior portion of the tubular member having a reduced exterior end portion consisting of polygonal sides for receiving a wrench means for threadedly inserting and removing said elongated tubular member in the tubular valve housing permitting removal of said ball member and access to the interior of the valve housing and tubular member for inspection and cleaning, said tubular member being provided with an annular beveled faced seat adjacent the threaded end portion against which said ball valve member seats when moved into engagement thereagainst by fluid flowing through the passage formed by the valve housing and the elongated tubular member thereby checking the flow of fluid through said passage.



2,615,677
PALLET TRUCK
George F. Quayle, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application April 24, 1948, Serial No. 23,033
19 Claims. (Cl. 254—2)

1. In a truck of the class described, a lifting head, an elevating platform, spaced links pivoting said elevating platform relatively to said lifting head for upward lifting movement on said links relatively to said lifting head, lifting means for lifting said elevating platform relatively to said lifting head, said links being formed so that one part of said elevating platform moves in different relation to said lifting head than another part of said elevating platform, a lifting wheel for said platform, and means



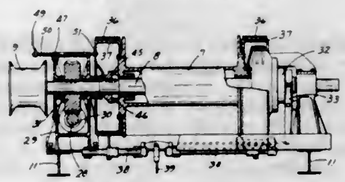
whereby said elevating platform moves relatively to said lifting wheel as said elevating platform moves relatively to said lifting head on said links, substantially for the purpose described.

2,615,678
CLAMPING DEVICE
Dudley H. Stent, Westminster, London, England, assignor to Stent Precast Concrete Limited, London, England
Continuation of abandoned application Serial No. 792,639, December 19, 1947. This application September 19, 1950, Serial No. 185,659. In Great Britain October 13, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 13, 1963
8 Claims. (Cl. 254—67)



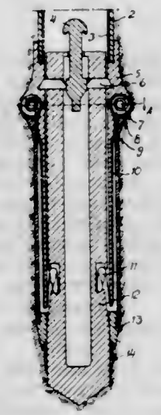
1. A device for simultaneously gripping and applying a tensioning force to at least one elongated element, comprising a tensioning member having a first surface of substantial area facing in the direction of the tensioning force for engaging a first portion of each said elongated element and having a second oppositely facing surface of substantial area for engaging a second portion of said elongated element, a clamping part located in proximity to said second surface for contact with said second portion, and means for exerting tensioning force on said clamping part to compress said second portion between said part and said member while simultaneously applying tensioning force to the first portion of said elongated element through the first surface of said member.

2,615,679
WELL DRILLING RIG
James W. Menhall, Benton, Ill.
Application November 14, 1947, Serial No. 786,122
1 Claim. (Cl. 254—187)



In a wall drilling rig, in combination, a motor, draw-works comprising a winch drum, a cable adapted to wind on said drum, a drum shaft on which the drum is loosely mounted, positive worm gearing connecting the motor and drum shaft for driving the latter, a friction clutch to connect the drum with said shaft and a non-slipping clutch to connect the drum with said shaft, for effecting drill string pull out operation of the cable, manual control devices for said clutches for independently or simultaneously shifting same to connect and disconnect the shaft and drum, and a cathead on said drum shaft.

2,615,680
MEANS FOR EXTRACTING CORES OF SOIL FROM THE GROUND
Walter Kjellman, Stockholm, and Torsten Karl Edmund Kallstenius, Lidingo, Sweden
Application March 29, 1948, Serial No. 17,756
In Sweden April 2, 1947
3 Claims. (Cl. 255—1.4)

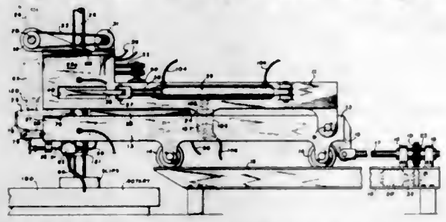


1. A borer for extracting cores of soil from the ground, comprising a boretube constructed and arranged to be driven into the ground and thereby to cut out a core of soil, the lower portion of said boretube comprising two interspaced concentric walls, the outer one of said walls extending downwardly beyond the inner wall, a boring cutter secured to the lower end of said outer wall, circumferentially spaced supply rolls carried by said boretube above the lower end thereof, foils mounted on said rolls and extending downwardly into the space between said walls, the lower end of said inner wall being shaped as a guide and deflecting edge for foils fed from said supply rolls through said space to the inside of the boretube, and means for retaining the foil ends within the boretube at a substantially constant level during the downward movement of the boretube.

2,615,681
DEVICE FOR HANDLING PIPES
Martin E. True, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application March 27, 1950, Serial No. 152,130
2 Claims. (Cl. 255—35)

1. A device for handling vertical stands of pipe comprising, in combination, a carriage adapted for horizontal movement along a trackway arranged to be mounted on the floor of a derrick, said carriage defining with a first end a slotted opening; a housing mounted above said carriage and pivotally attached to said carriage at a second end thereof for vertical movement with

respect to the first end of said carriage, said housing defining a slotted opening in correspondence with the slotted opening of said carriage; power means associated with said carriage and said housing for pivoting said housing upwardly; a first tonging means mounted on said carriage adapted to embrace a stand of pipe in said opening in said carriage to prevent rotation thereof; a second tonging means mounted on said housing adapted to embrace a stand of pipe in said opening in said housing to im-

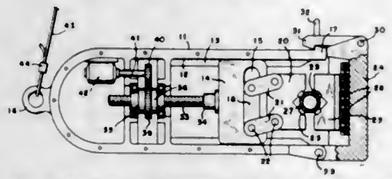


part arcuate movement thereto with respect to the longitudinal axis thereof; a spinning means mounted on said housing adapted to rotate a stand of pipe positioned in the opening in said housing; and a slidable plate mounted on said carriage between said carriage and said housing adapted to be moved between said slotted openings along an axis substantially parallel to the longitudinal axis of said carriage and under a stand of pipe for moving said stand horizontally into and out of said slotted openings.

2,615,682
POWER-OPERATED SLIDABLE JAW PIPE TONG

Albert L. Stone, Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application March 24, 1951, Serial No. 217,366
9 Claims. (Cl. 255—35)



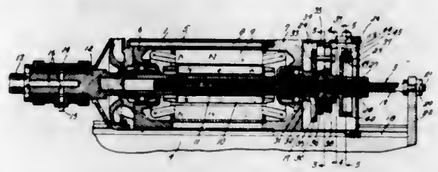
5. A pipe tong comprising, in combination, a frame member provided with means to receive a pipe and having a longitudinally extending slide surface, a first pipe gripping jaw member carried by said frame member, a cross head member arranged within said frame member to slide on the longitudinally extending slide surface, a second pipe gripping jaw member movably connected to said cross head member, a screw member arranged in said frame assembly operably connected to said cross head member, and power means mounted in said frame member operably connected to said screw member to move said second jaw member forward to and backward from said first jaw member.

2,615,683
DRILLING APPARATUS

Robert Anthony McCallum, Michigan City, Ind., assignor to Joy Manufacturing Company, a corporation of Pennsylvania

Application October 23, 1944, Serial No. 559,982
9 Claims. (Cl. 255—47)

5. In a drilling apparatus, a bodily movable motor for rotating and feeding a drilling implement, a tubular drill spindle coaxial with and driven by said motor, a connection for a drilling implement secured to the front end of said spindle, and means operatively connected to the rear end of said spindle for moving said motor to

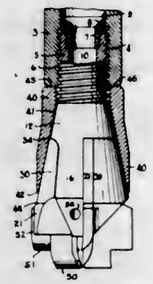


feed the drilling implement toward the work at a drilling speed during drilling including a stationary feed screw extending forwardly axially into said spindle from a point to the rear of the latter.

2,615,684
DETACHABLE BLADE BIT

Herbert J. Hawthorne, Houston, Tex.

Application August 24, 1945, Serial No. 612,416
3 Claims. (Cl. 255—61)



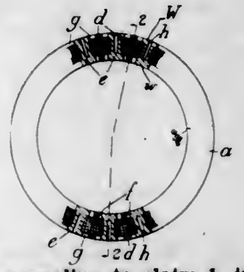
1. A detachable blade bit comprising a body for rotation by a drill stem, a blade supporting area thereon, radial notches in said body forming a portion of said area, means disposed in each notch including a blade portion, an internally tapered clamping collar to slidably fit over said body and means, and a driving drill collar threaded onto said body to abut the top of said clamping collar so that the resistance to turning of the blades against the formation causes the rotation of the drill stem to continuously urge said driving drill collar to force said clamping collar downwardly along said body to exert a wedging action upon said means and interfitting portions on said blades and body to retain said blades on said body against longitudinal thrust in spite of such driving action.

2,615,685
REGENERATIVE HEAT EXCHANGER

Andrew Thomson Bowden, Newcastle-upon-Tyne, and Paul Kolb, Whitley Bay, England, assignors of one-third to C. A. Parsons & Company Limited, Newcastle-upon-Tyne, England

Application March 8, 1949, Serial No. 80,245
In Great Britain December 12, 1947
5 Claims. (Cl. 257—6)

1. A rotor for a drum-type regenerative heat exchanger comprising concentric inner and outer walls and a plurality of radial ribs spaced uniformly around the circumference, connecting the inner and outer walls and dividing the space between the inner and outer walls into a plurality of chambers for holding a heat exchanging matrix.

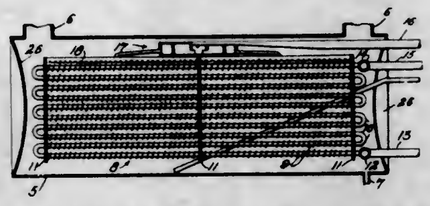


2. A rotor according to claim 1, in which the inner and outer walls have holes through which gas and air can flow.

2,615,686
HEAT TRANSFER DEVICE

John Davidson, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application May 29, 1948, Serial No. 30,025
1 Claim. (Cl. 257—35)



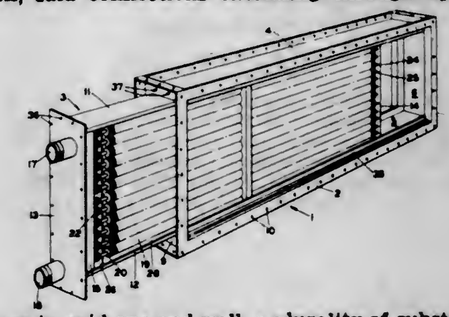
A heat transfer device having a plurality of pipe sections arranged one over the other in a vertical plane, means for flowing a fluid through the interior of the pipe sections, means for directing droplets of a liquid onto the exterior of the uppermost pipe section at spaced points along the top thereof which drips from the bottom of each pipe section onto the top of the next lowermost pipe section from the top to the bottom of the device, a helically wound wire surrounding each pipe section and resting on the top thereof with a space between the loops of the wire helix and the sides and bottom of the pipe section, each loop of the wire helix constituting a drip former from which liquid drips at spaced points from the bottom of the pipe section, and the space between the loops of the wire helix and the pipe section being so related to the surface tension of the liquid as to cause the liquid to cling in the space and thereby interrupt the flow of liquid longitudinally of the pipe section and form small drops as liquid drips from each loop.

2,615,687
HEAT EXCHANGER

Lance L. Simmons, Detroit, Mich., assignor to American Blower Corporation, Dearborn, Mich., a corporation of Delaware

Application January 3, 1948, Serial No. 440
8 Claims. (Cl. 257—144)

1. A heat exchanger assembly comprising an outer casing adaptable to be secured in a predetermined position, said casing comprising a rectangular framework having closed top and bottom walls and a closed end wall and having an open end and open sides, an inner casing slidably fitting said outer casing and adapted for insertion or removal through said outer casing open end for ease of assembly and maintenance, said inner casing comprising a rigid rectangular structure having closed top and bottom and opposite end walls and having open sides registering with said outer casing open sides, said outer and inner casing top and bottom walls having cooperable side flanges forming guide rails, said outer casing flanges also closing the spaces between said top walls and said bottom walls, a pair of headers secured within said structure and spaced from one of said inner casing closed end walls, one of said headers having an inlet connection and the other having an outlet connection, said connections extending through aper-

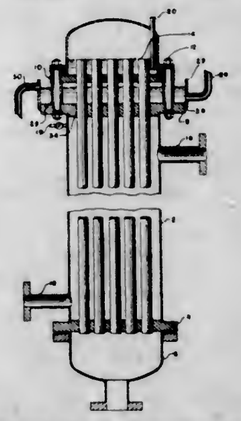


tures in said one end wall, a plurality of substantially U shaped finned heat transfer tubes positioned longitudinally of said inner casing and having their inlet ends connected to said one header and their outlet ends connected to said other header, a baffle member of T shaped cross-section, having a stem portion and a cross portion, positioned between said headers and carried by said one wall, said stem portion being secured to said one wall and extending substantially the length of said headers, said cross portion extending substantially the length of said headers and laterally into overlapping relation to the tube fins, and means for supporting said tubes by their reverse bend portions at the other of said inner casing closed end walls.

2,615,688
HEAT EXCHANGE METHOD

Chester C. Brumbaugh, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

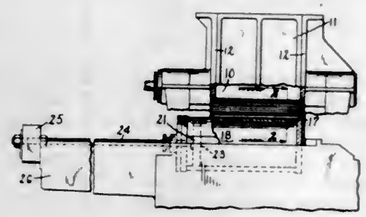
Application March 28, 1950, Serial No. 152,314
2 Claims. (Cl. 257—224)



1. The method of starting up a tube and sheet evaporator having tubes within a shell and a tube

sheet joined to said shell and said tubes, which includes the steps of contacting the joints between the tubes and sheet outside said shell with a relatively cool fluid heat exchange medium, heating the shell side of said tubes to the desired operating temperature above the temperature of said heat exchange medium at said joints, and introducing into said tubes the material to be treated in said tubes, said material being introduced at a temperature substantially below the operating temperature of the shell side of said tubes, while maintaining said heat exchange medium in contact with said joints during the introduction of said material.

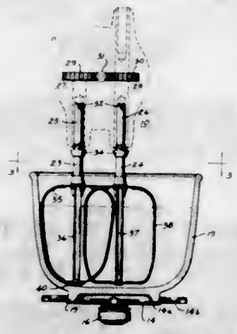
2,615,689
RUBBER MIXER
Carl F. Schnuck, North Haven, and Oliver W. Hooker, Woodbridge, Conn., assignors to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a corporation of Connecticut
Application July 31, 1950, Serial No. 176,876
2 Claims. (Cl. 259—41)



1. A mixer for heavy plastic materials comprising a double cylindrical chamber having a bladed rotor in each of the cylinders thereof, said chamber being provided with a bottom discharge opening, a slidably mounted closure member for said opening, the upper side of said member comprising two plane surfaces meeting at a line substantially centrally of the chamber, and the surfaces sloping upwardly from the side edges of the door to a ridge each of said surfaces on the closure member being substantially tangent to the outline of the adjacent cylinder, and said ridge lying between the blades of the rotor and in a horizontal plane intermediate the plane of the rotors and the lower portion of the cylinders.

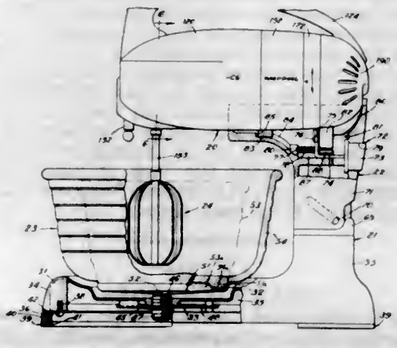
2,615,690
BEATER AND BOWL ARRANGEMENT FOR MIXERS
Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application January 19, 1951, Serial No. 206,832
1 Claim. (Cl. 259—84)

In combination with a mixing bowl of the type having an inside surface comprising a substantially flat bottom and upwardly extending side walls having an outward taper and with said side walls and bottom being joined by a smoothly curved surface, a first beater disposed in said bowl comprising a first beater shaft and a plurality of beater bands fastened to said first beater shaft, said beater bands diverging outwardly from the lower portion thereof to conform closely to said side walls and said curved surface thereby substantially conforming to the inner contour of said mixing bowl exclusive of said flat bottom, means for supporting said first beater for rotation within said bowl so said bands are closely adjacent to said side walls, a second beater disposed in said bowl comprising a second beater shaft and a plurality of bands of somewhat rectangular configuration fastened to said second beater shaft, said beater bands of said second beater having the bottom portion thereof substantially in a single horizontal plane for almost the entire extent thereof, means for supporting said second beater for rotation in cooperation with said first beater with said bottom portion positioned parallel to and closely adjacent to said



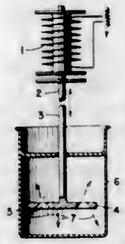
flat bottom of said bowl, said second beater having its axis of rotation spaced from the axis of rotation of said first beater by a distance substantially equal to the maximum radius of the beater bands of said second beater, the radii of said beater bands being of such extent that the bands of said second beater reach at least to the center of said mixing bowl, whereby there is provided a substantially continuous mixing action closely adjacent and conforming to the inner contour of said bowl along the side walls, curved surface and flat bottom thereof.

2,615,691
HOUSEHOLD FOOD MIXER
William F. Bisley, Oak Park, Ill., assignor to Dormeyer Corporation, a corporation of Illinois
Application June 20, 1947, Serial No. 755,995
23 Claims. (Cl. 259—84)



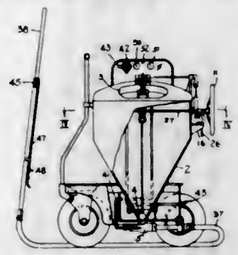
1. In a food mixer of the class described the combination of a housing, a driven shaft journalled in the housing and comprising a sleeve, said sleeve having an opening at one end to receive a beater shaft in driven relationship, and an opening at the other end exposing the upper end of a beater shaft received in said sleeve, a lever, and thrust means driven by said lever for engaging said exposed end of the beater shaft and movable by the lever in a direction generally axially of the sleeve to dislodge the shaft.

2,615,692
DEVICE FOR MIXING, STIRRING, EMULSIFYING, ETC.
Hans Müller, Erlenbach/Zurich, Switzerland
Application February 3, 1949, Serial No. 74,434
In Switzerland February 5, 1948
12 Claims. (Cl. 259—113)



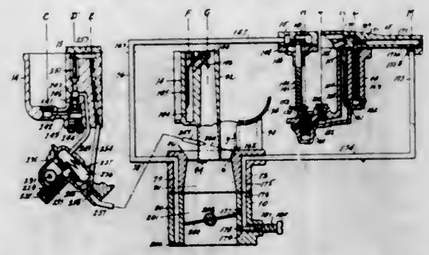
1. A vibratory mixer comprising a relatively thin elongated shaft constructed and arranged to extend down into a body of liquid or the like, a transversely enlarged relatively inflexible and form-retaining mixing member fixedly mounted on said shaft in fully-submerged relationship to the liquid, mechanism operatively connected to the upper end of said shaft for causing said shaft and said mixing member to oscillate at relatively high frequency and small amplitude, and means providing tapered liquid passageways extending through the mixing member generally in the direction of oscillation whereby liquid trapped in the larger ends of the tapered openings by the on-coming mixing member is compressed and forced out of the smaller trailing ends of said openings and is discharged in the opposite direction at considerably higher speed than the speed of the mixing member, thereby to cause circulation of the liquid through and appreciably beyond the mixing member in the direction of taper.

2,615,693
APPARATUS FOR FEEDING GROUND MATERIALS
Chester A. Matirko, Tiffin, Ohio, assignor to Basic Refractories, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 15, 1947, Serial No. 741,670
9 Claims. (Cl. 259—151)



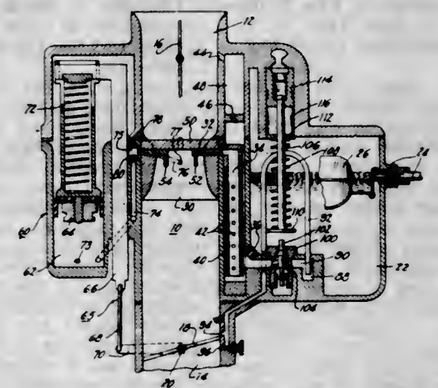
1. In apparatus of the character described, means for pressure-projecting granular material, comprising a portable wheel-supported conical bottom container with upper inlet and bottom outlet, means for maintaining a pressure-differential between the inside and outside of the container, including a closure for the inlet movable inwardly, a closure for said outlet including a resilient ball operating into a tapered seat, an axially movable rod carrying said ball, a tubular guide for said rod dependent from the top of the container, a hand-operated rock shaft with arm and lost-motion connection to said rod, a nozzle chamber adjacent and under said ball, a fluid jet nozzle projecting in said chamber, a discharge opening opposite said nozzle, a discharge conduit including a hose section leading from said opening, and a valve-controlled liquid inlet on said conduit including a small chamber surrounding the conduit for liquid supplied thereto, and means including openings from said chamber into the conduit.

2,615,694
CARBURETOR
Elmer Olson, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 18, 1949, Serial No. 77,097
18 Claims. (Cl. 261—23)



4. In a down-draft carburetor, the combination of a vertical venturi, means for directing air to the top thereof, a fuel well, means for supplying fuel to the well, means for admitting air thereto, a nozzle communicating with the well and discharging fuel into the venturi, said nozzle being an inclined tube closed at its upper end and having a side opening close to the axis of the venturi, an inclined rod supported by the tube and extending downwardly across the interior of the tube and through the lower portion of the side opening and into the venturi passage, said rod terminating within said venturi at a point adjacent the axis thereof and providing a surface upon which fuel can flow rather than down the side wall of the venturi.

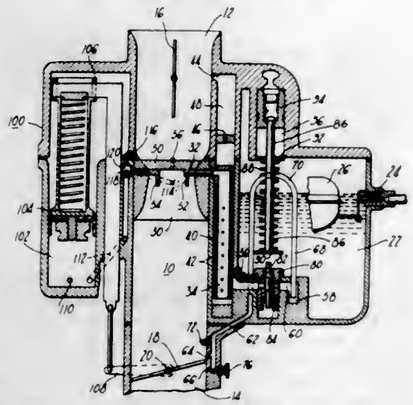
2,615,695
CARBURETOR
Albert H. Winkler, Elmira, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 3, 1949, Serial No. 68,783
6 Claims. (Cl. 261—34.1)



1. In an accelerating pump discharge system for a carburetor: a chamber, a fuel inlet port in the

bottom of said chamber, an air inlet port in the top of said chamber, a ball in said chamber adapted to seat over the fuel inlet port when said pump is inoperative and to seat over the air inlet port when the pump is operative, and a fuel outlet for said chamber disposed at a point therein above the horizontal axis of said ball when the ball is seated over the air inlet port.

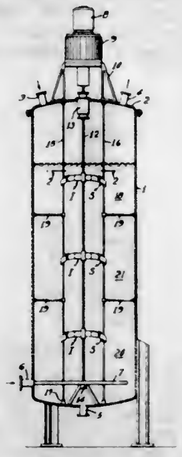
2,615,696
CARBURETOR
Albert H. Winkler, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 17, 1948, Serial No. 8,951
10 Claims. (Cl. 261—41)



1. In an engine carburetor, an induction passage having an air inlet and a mixture outlet with a throttle valve therein, a venturi in said induction passage, a bar extending across said venturi near the throat thereof, a pair of ears spaced from one another and from the Venturi walls on the downstream side of said bar, a fuel well, a conduit connecting said well with the induction passage between said ears, and an idle system having a conduit connecting said well with the induction passage on the engine side of said throttle valve.

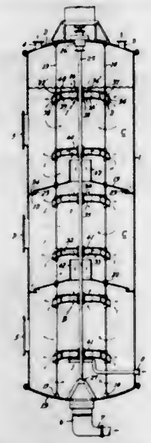
2,615,697
DISPERSION APPARATUS
Kenneth Sterling Valentine, New York, N. Y., assignor to The Patterson Foundry & Machine Co., New York, N. Y., a corporation of Ohio
Application December 10, 1949, Serial No. 132,231
6 Claims. (Cl. 261—93)

1. Apparatus for the dispersion of a gas in a liquid which comprises a container, means for introducing gas into the lower portion of the container and a liquid into the upper portion of the container, at least one combination stator and impeller unit in the container, upper and lower plates on the impeller with the impeller blades between, a shaft for the impeller, segmental plates adjustable upward and downward on the shaft between the impeller blades to vary the size of upper and lower openings for the impeller at its center for the entrance of liquid and gas, annular upper and lower plates for the stator which are spaced apart to provide a lateral space contiguous with the space between the plates of the impeller, blades mounted between the plates of the stator which effect a shearing of the liquid discharged outwardly from the impeller, the peripheral portion of the stator being spaced inwardly from the container and curved downwardly to direct the liquid from the



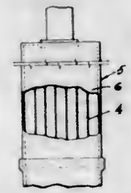
stator in an outward and downward direction, and an annular lip over the space between the impeller and the stator to suppress upward escape of fluids.

2,615,698
APPARATUS FOR DISPERSING GASES IN LIQUIDS
Kenneth Sterling Valentine, New York, N. Y., assignor to The Patterson Foundry & Machine Co., New York, N. Y., a corporation of Ohio
Application December 28, 1950, Serial No. 203,098
2 Claims. (Cl. 261—93)



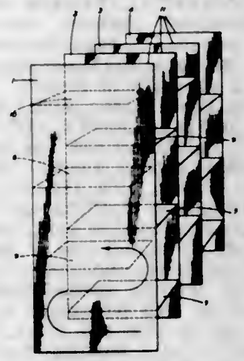
1. Apparatus for the dispersion of a gas in a liquid which comprises an upright elongated container with means at the upper portion for introducing a liquid and discharging gas and means at the lower portion for introducing the gas and removing the treated liquid, a plurality of baffle means extending across the container in spaced relation forming compartments therebetween, at least one impeller-stator unit in each compartment comprising an impeller having central inlet openings at the top and bottom, the impeller being rotatable on an upright shaft, means located adjacent the periphery of the impeller to shear the liquid and gas to effect dispersion of the gas in the liquid, an annular aperture near the outer periphery of each baffle for the downward passing of liquid near the sides of the container, and a central chimney for each baffle for directing the upward flow of gas into the central inlet opening of the impeller-stator unit directly above.

2,615,699
CONTACTING LIQUIDS WITH GASES OR VAPORS
Olaf George Dixon, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application February 25, 1947, Serial No. 730,678
In Great Britain February 28, 1946
4 Claims. (Cl. 261—101)



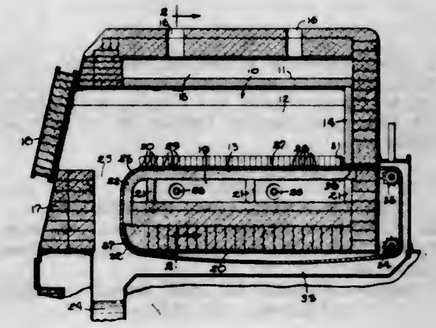
1. Apparatus for contacting liquids with gases comprising a vessel containing a packing of vertically disposed plain sheets of galloon netting, said sheets being spaced apart to provide between them at least one free and unobstructed path for the upward flow of vapor, and means for supplying liquid to the upper edges of the sheets, the weave of said galloon netting being sufficiently close to insure filming of the liquid across the apertures therein.

2,615,700
APPARATUS FOR CONTACTING LIQUIDS WITH GASES OR VAPORS
Olaf George Dixon, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application February 25, 1947, Serial No. 730,677
In Great Britain February 28, 1946
1 Claim. (Cl. 261—102)



Apparatus for contacting gases with liquids which comprises a container, at least one upright filamentous sheet-form partition in said container, said filamentous sheet-form partition being formed from galloon netting, the said galloon netting being positioned with the warp threads thereof substantially upright, a tortuous passage on each side of said partition, said tortuous passage being formed by imperforate partition members arranged step-wise, one above the other, and in staggered relation to each other for permitting the gas to flow around only one end of one imperforate partition and only around the other end of the next one in order, the side edges of said imperforate partitions being attached to the opposite sides of said upright filamentous sheet-form partition and means for irrigating the upright sheet-form partition with liquid.

2,615,701
HEAT-TREATING FURNACE
Harold N. Ipsen, Rockford, Ill.
Application October 6, 1949, Serial No. 119,896
1 Claim. (Cl. 263—8)

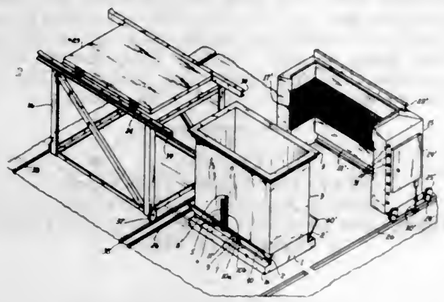


In a heat treating furnace, the combination of, a generally horizontal base, a rigid floor plate of heat resistant material spaced above said base and cooperating with the latter to form a heat generating chamber, an extension of said plate curving downwardly from one end thereof to said base and forming an upright wall closing one end of said chamber, means enclosing said floor plate and said wall to define a muffle above the floor and an upright material discharge opening at the end thereof, a heater disposed in said chamber immediately adjacent said curved extension and the adjacent portion of said floor plate and operable to radiate heat directly to the inner surfaces of the plate and extension and thereby heat the same and the material uniformly at least to the point of material discharge, a flexible work conveyor for supporting workpieces within said muffle including an endless flexible element extending along said plate, down through said opening along said wall and reversely beneath said base, said element being slidable endwise along the stationary surfaces of said plate and said extension, and mechanism engageable with said endless element and operable to pull the element downwardly through said opening and thereby move said conveyor endwise along the upper surface of said plate and downwardly around said curved extension.

2,615,702
INDUSTRIAL BATH FURNACE
Berthold Allert, East St. Kilda, Victoria, Australia
Application February 18, 1950, Serial No. 144,892
In Australia December 1, 1945
15 Claims. (Cl. 263—11)

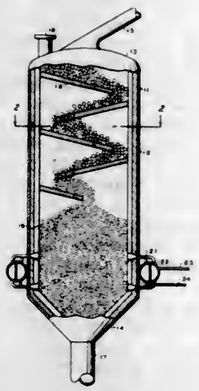
1. In an industrial bath furnace the combination, with a base and an open vat supported on said base, of a plurality of mutually complementary wall units independently movable rela-

tive to said base, each of said wall units having an upper portion abutting a corresponding top portion of said vat to form an annular heating chamber around the vat when the wall units are



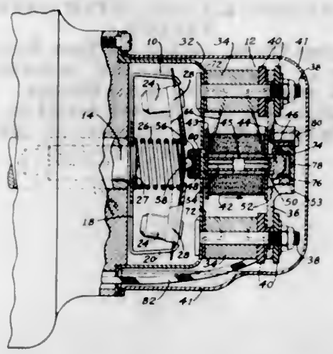
in a closed position adjoining said base, certain of said mutually abutting portions forming a flange all around said vat closing said chamber at its top, and heater means in said heating chamber.

2,615,703
PEBBLE HEATING CHAMBER
Louis J. Weber, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 11, 1948, Serial No. 53,877
3 Claims. (Cl. 263—19)



1. An improved pebble heater chamber of pebble heater apparatus which comprises in combination an upright outer shell, closed at its ends; a pebble inlet in the upper end of said shell; an effluent outlet in the upper end of said shell; a pebble outlet in the lower end of said shell; a series of intermeshed baffle members supported by said shell and disposed through at least the upper portion of the chamber within said shell, said baffles being alternately disposed so as to slope laterally and downwardly from opposite sides of said shell and seal opposite sides of said chamber against pebble and gas flow, the lower end of each said baffle being spaced from the opposite side of said shell and from the top surface of subjacent baffles by at least 8 diameters of pebbles utilized within said chamber and the lowest said baffle being spaced from the bottom of said shell by at least 1.5 chamber widths; and at least one fuel-air injector in the lower portion of said shell below said baffles.

2,615,704
CENTRIFUGAL SPRING SUPPORT TYPE SPEED RESPONSIVE DEVICE
Fred P. Vacha, Auburndale, Mass., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass., a corporation of Delaware
Original application April 7, 1945, Serial No. 587,103. Divided and this application September 3, 1948, Serial No. 47,658
1 Claim. (Cl. 264—18)

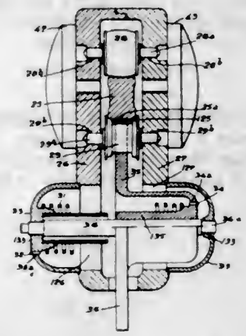


A rotary unit for a centrifugal governor comprising a frame having yielding arms, a flat spring member supported between the arms and bowed outwardly under inactive conditions, centrifugal weights on the spring, a coil spring between the frame and the center of the flat spring, and plate members secured to the flat spring in the vicinity of the weights and having contact with the flat spring along the major portion of its length so that outward movement of the weights as the speed increases causes said plate members to press more firmly against said flat spring to tend to reduce the degree of bowing of said flat spring and at the same time apply additional compressive force to said coil spring, the flat spring being arranged to bow only slightly at speeds near the running speed, whereby a soft spring action in the running range and a strong spring action at standstill are obtained.

2,615,705
AUTOMATIC PLATFORM SCALE
Eugène Outrebon, Bethune, Pas-de-Calais, France, assignor to Manufacture d'Horlogerie de Bethune, Bethune, Pas-de-Calais, France, a company of France
Application July 11, 1947, Serial No. 760,277
In France April 2, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 2, 1962
2 Claims. (Cl. 265—56)

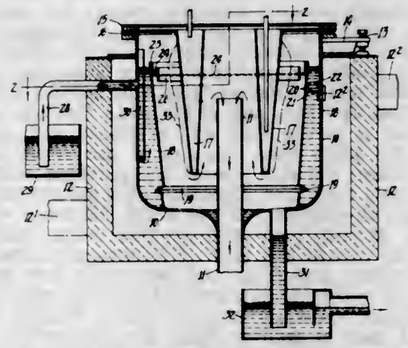
1. In an automatic platform scale, a frame, a beam pivotally supported by said frame and having a rack on its under side, a self-propelling movable weight device movable over said beam and including opposed spaced side walls with openings therein, two stationary cups mounted in the openings in said side walls, a shaft supported by said cups, a toothed disc member secured on said shaft, an upper guiding roller supported between said side walls, two lower guiding rollers supported by said side walls, a helical torsion spring having an end secured to one of said stationary cups and having its other end secured to said disc member, the periphery of said disc member meshing with said rack, a development wheel mounted on said frame, and

a transmission band secured at one end to said movable weight device and wound around said



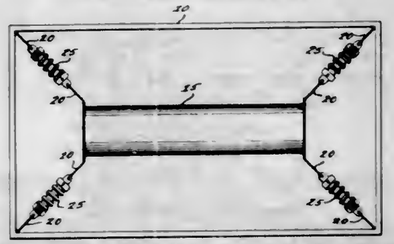
development wheel for controlling the indicating and recording system of the platform scale.

2,615,706
DISTILLATION OF METALS
Thomas R. A. Davey, Port Pirie, South Australia, Australia, assignor to The Broken Hill Associated Smelters Proprietary Limited, Melbourne, Victoria, Australia, a company of Victoria
Application July 17, 1950, Serial No. 174,206
In Australia August 5, 1949
15 Claims. (Cl. 266—19)



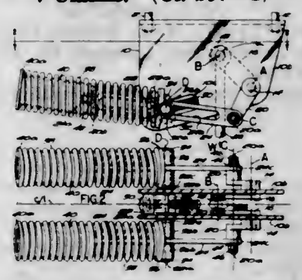
15. Apparatus for separating and recovering a relatively volatile constituent from a molten metal complex comprising a vacuum chamber, a substantially vertical condenser disposed approximately centrally within the chamber and pendent from the top thereof, said condenser having its lower end disposed above but adjacent to the bottom of the chamber and having therein a substantially central passage which extends upwardly from its lower end, means forming a vacuum passage which communicates directly with said central passage in the condenser whereby the interior of said chamber is maintained under vacuum by the withdrawal of gases therefrom through said passage in the condenser, means forming a vertically extending evaporating zone around and spaced from the condenser, means for supplying molten metal to be treated to the upper end portion of said evaporating zone and means for discharging molten metal low in said volatile constituent from the lower end portion of said chamber.

2,615,707
CUSHIONING MEANS
Oliver R. Rowe and William J. Stolp, Charlotte, N. C., assignors to R. H. Bouligny, Inc., a corporation of North Carolina
Application October 13, 1948, Serial No. 54,348
5 Claims. (Cl. 267—1)



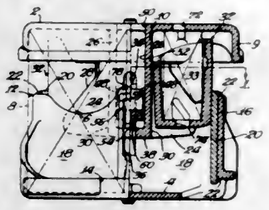
1. A cushioning means comprising shock receiving members assembled for relative sliding displacement under tension shock load, clamping means assembled with said shock receiving members and slidably gripping said members for imposing a friction drag on said sliding displacement, and preloaded spring means assembled with said shock receiving members for resisting said sliding displacement, the friction drag imposed by said clamping means being less than the preloading of said spring means, and said spring preloading and friction drag exerting an aggregate cushioning force sufficient to absorb a given shock load in a minimal displacement without subjecting the object cushioned to a shock force in excess of a predetermined maximum limit.

2,615,708
SPRING SUPPORT
William S. Rouverol, Oxford, England, assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware
Application June 2, 1951, Serial No. 229,562
7 Claims. (Cl. 267—1)



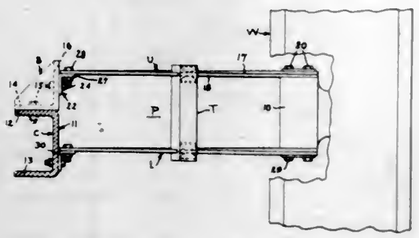
1. A spring support for exerting a constant supporting force on a load movable vertically within a limited range, which support comprises a frame, a lever pivoted thereon having arms angularly spaced apart about its pivot, means connecting the load to be supported to one arm of said lever so as to produce a turning moment about the lever pivot, oscillatable spring means mounted on a pivot on said frame, and means connecting one end of said spring means to a point on the other arm of said lever so as to produce a turning moment about the lever pivot equal to and opposed to the turning moment of the load; the distance between the axis of said spring pivot and the said point being equal to the deflection of the spring, and the said spring pivot lying on a line angularly spaced about the lever pivot from the vertical axis through the lever pivot by an amount equal to the angle between the said lever arms.

2,615,709
SPRING GROUP ASSEMBLY
John E. Flesch, Los Angeles, Calif., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 21, 1950, Serial No. 157,388
19 Claims. (Cl. 267—9)



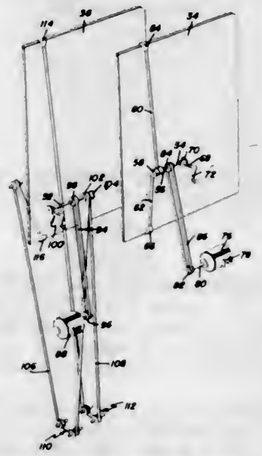
1. A spring group comprising top and bottom plates and load-carrying springs confined therebetween, friction means in parallel with the springs and comprising telescoping top and bottom followers connected to respective plates, each follower having generally vertical spaced side walls, the side walls on one follower being arranged adjacent the respective side walls of the other follower, and means for limiting expansion of said spring group comprising horizontally aligned, vertically elongated slots in adjacent walls of respective followers, and locking members carried by said one follower adjacent the side walls thereof, each locking member having a tongue adapted to enter the adjacent slots upon predetermined compression of said group through rotation of the locking member, each locking member having abutment with the one follower at vertically separated points spaced longitudinally of the locking member and engageable with the other follower at one end of the related slot.

2,615,710
SINGLE LEAF SPRING SUSPENSION FOR AUTOMOBILES
Kenneth E. Lyman, Lake Forest, Ill., assignor to Tucker Corporation, Chicago, Ill., a corporation of Delaware
Application June 14, 1947, Serial No. 754,743
2 Claims. (Cl. 267—41)



1. In an automobile including a wheel, a bearing block supported by the wheel and a chassis, a parallelogram suspension for suspending said chassis from said wheel, said suspension comprising spaced brackets secured to said chassis, an upper arm assembly consisting of a pair of straight elongated single leaf springs arranged in diverging relation with their outer ends meeting and connected rigidly to the upper face of said block and their inner ends spaced apart and connected rigidly to said brackets, and a lower arm assembly consisting of a pair of straight elongated single leaf springs arranged in diverging relation with their outer ends meeting and joined rigidly to the under face of said block and their inner ends connected rigidly to said chassis at spaced points, each of said leaf springs being of substantially uniform thickness, but of varying width and having its narrowest point at its center and gradually increasing in width towards each end away therefrom.

2,615,711
COMBINATION WINDOW
Oscar J. Niquette, Nashua, N. H.
Application May 26, 1950, Serial No. 164,531
2 Claims. (Cl. 268—130)

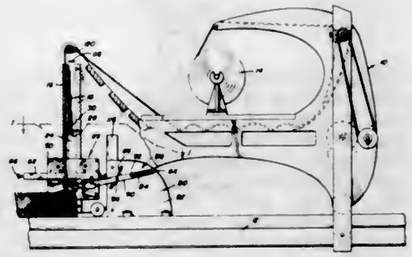


1. In window construction, inner and outer vertically slidable windows, means for operating the outer window comprising a rotatable horizontal shaft disposed inwardly of the inner window, flexible means operatively connected to the shafts and including first and second portions extending from the shaft, said flexible means being so constructed and arranged with respect to the shaft that rotation of the latter in one direction retracts one of the portions while extending the other, a pair of guide pulleys disposed below the lowest point to which the inner window will extend, said first portion being entrained under one of the pair of pulleys and extending upwardly therefrom and having its free end secured to the outer window, a further guide pulley disposed outward of said other window above said pair of pulleys, said second portion being entrained under the other of the pair of pulleys and extending upwardly therefrom, thence being entrained over the further pulley and extending downwardly therefrom with its free end secured to the outer window, whereby the flexible means does not interfere with vertical adjustment of the inner window and the outer window may be raised or lowered by rotating the shaft in the appropriate direction.

2,615,712
FOLD CATCHING MECHANISM FOR CLOTH PILING MACHINES
Herbert W. Springer, Quakertown, Pa.
Application November 29, 1948, Serial No. 62,585
5 Claims. (Cl. 270—31)

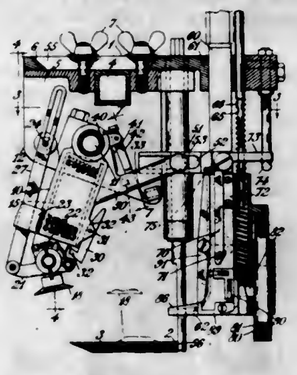
1. In a cloth piling machine in which a carriage supporting a supply of cloth moves to and fro in a rectilinear path above a support on which the cloth from said supply is piled in successive folds, a cloth folding bar having an elongated longitudinal cloth receiving slot extending therethrough mounted on the carriage to oscillate

about a horizontal axis which is transverse to the rectilinear path, cloth catches carried by the support adjacent opposite ends of the rectilinear path for engaging opposite folded edges of the piled cloth and holding the cloth against movement, means on the carriage for lifting the cloth catches clear of the piled cloth and causing said catches to enter said slot, vertical racks carried by said carriage, a guide member mounted for



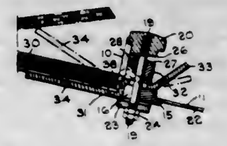
vertical movement between pairs of said racks, said folding bar being carried by a pair of said guide members, a pinion fixed to said bar, a plate carried by said bar, gears carried by said plate and enmeshed with the teeth of said pair of racks, a push rod mounted for horizontal movement and engaging said pinion to rotate said bar, and means carried by said push rod and engaging said gears to rotate said gears, thereby moving said plate in response to movement of said push rod.

2,615,713
SHEET SEPARATING MACHINE
Headley Townsend Backhouse, Sunningdale, England
Application April 21, 1949, Serial No. 88,863
In Great Britain April 22, 1948
1 Claim. (Cl. 271—26)



In a machine having a gripper for separating individual sheets one by one from a pile, the gripper being arranged to grip one edge portion of each sheet in turn and to bend the edge portion away from the body of the pile and an air nozzle in the form of a foot which is arranged to rest on the body of the pile between the said body and the bent edge portion of the sheet and to direct a blast of air between the bent sheet and the body of the pile and then to be removed from engagement with the pile, a second air nozzle movable with the foot as a unit and arranged to direct a blast of air against a face of the pile to assist separation of the sheets by a preliminary "fluffing" of the sheets, and an air conduit leading to the two nozzles and movable therewith, the provision of a control valve for the air supply to the nozzles which valve is located in the movable air conduit adjacent the nozzles, and means for operating the control valve in timed sequence with the operations of the gripper and movements of the foot such that the air is turned on to the separating nozzle after the sheet has been bent as aforesaid and is diverted from the separating nozzle to the fluffing nozzle during the period when the foot is removed from the pile.

2,615,714
SHEET RECEIVER FOR DUPLICATING MACHINES
Frank Ronald Ford, Birmingham, England
Application April 9, 1947, Serial No. 740,445
In Great Britain November 16, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 16, 1965
5 Claims. (Cl. 271—86)

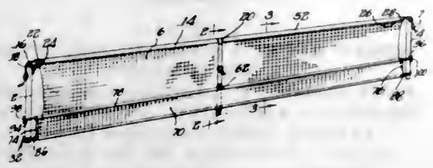


1. A receiving tray for a duplicating machine comprising a sheet of material having a flat sheet-receiving portion, said sheet-receiving portion having a slot parallel to the side edges of the tray, an adjustable stop for the sheets comprising an angle-section strip extending across the upper surface of the slotted part of the tray, said strip having a recess in one flange and having a slot extending wholly through the recessed flange and into the other flange, a slotted guide strip secured to the underside of the stop strip and projecting from its lower surface, the edges of said guide strip engaging the sides of the slot in the tray, an abutment block disposed under the slot of the tray, said abutment block having a slot on its upper side the edges of which engage the edges of the guide strip, a bolt extending through the slots of the stop and tray and through a hole in the abutment block, a head on the bolt above the tray, said head having an annular shoulder, a saddle block on said bolt under said shoulder, said shoulder making camming engagement with said saddle block, a lever mounted on said bolt and having two arms one on each side of the bolt, said lever having a slotted parallel-sided part disposed between the sides of said saddle block, one arm being inclined to the surface of the tray, and the other arm normally lying in the slot of the tray, said lever being capable of being rocked so as to raise the ends of the sheets on the tray above the strip forming the adjustable stop, and an abutment on said bolt below said abutment block.

2,615,715
TENNIS NET
James Ballard Moore, Chicago, Ill.
Application July 17, 1947, Serial No. 761,467
19 Claims. (Cl. 273—29)

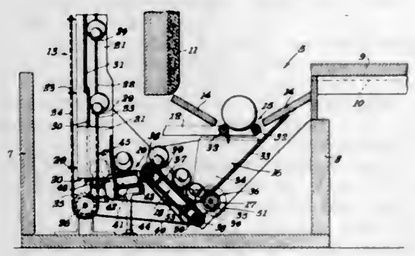
1. A tennis net including means for stretching the same transversely across the center of a tennis court at a predetermined height above the playing surface of the court, said net including a main tennis net, a pair of auxiliary nets,

means for supporting said auxiliary nets on opposite sides of said main net and with the top edges of said auxiliary nets disposed substantially below the level of the top of said main tennis net and with the top opposed edges and the vertically disposed planes of the auxiliary nets normally disposed in juxtaposition to the opposed sides of the main net and closer to the sides of the main net than the diameter of a standard tennis ball, said auxiliary nets when so supported normally lying substantially parallel to



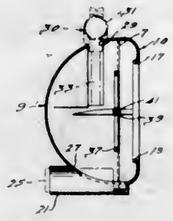
and adjacent the planes of the opposite vertical sides of the main net when the latter is stretched in playing position whereby not to interfere with normal playing, said auxiliary net supporting means and said auxiliary nets in such position providing means operable on impact of a tennis ball against that portion of the main net extending above the upper edges of said auxiliary nets automatically to form a ball retaining pocket to receive the ball as it drops from said upwardly extending main net portion.

2,615,716
BOWLING BALL AND PIN HANDLING APPARATUS
George A. Montooth and Albert M. Bowen, Long Beach, Calif., assignors to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application May 4, 1946, Serial No. 667,410
3 Claims. (Cl. 273—43)



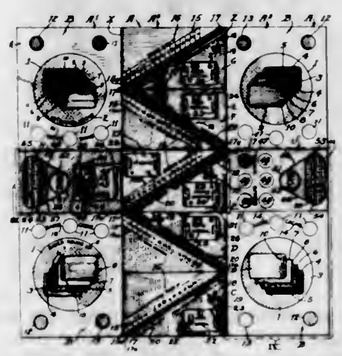
1. In a bowling alley pit, a ball lift comprising a pair of spaced movable members having a throat therebetween through which pins may pass, means for directing pins and balls received from the alley toward said throat, means for moving said movable members for separating the pins from the ball whereby the former fall through said throat, a hopper for receiving the pins, means in the hopper for laying the pins on their sides, an elevating conveyor for raising the pins from the pit, and means for transporting the pins from said hopper to the elevating conveyor, said latter means comprising an upwardly sloping conveyor for moving only horizontally disposed pins from the bottom of the hopper, and a transversely arranged conveyor for receiving pins from the sloping conveyor and moving them toward the elevating conveyor.

2,615,717
TARGET SET
Robert O. Wesley and Carl W. Sundberg, Plymouth, Mich., assignors to Daisy Manufacturing Company, Plymouth, Mich., a corporation of Michigan
Application July 28, 1949, Serial No. 107,347
4 Claims. (Cl. 273—102.4)



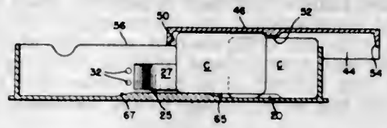
1. A target set including a hollow housing having concave top, back and bottom portions, a front wall having an opening therein, means connected with said housing and providing hollow members for supporting said housing above a supporting surface, said members having an opening therein communicating with the bottom of said housing and an opening disposed exteriorly of said housing communicating with the hollow interior thereof, a target in said housing behind said front wall opening at which projectiles may be shot, means mounting said target in said housing, and means in said housing for aiding in retaining in said housing projectiles which hit said target.

2,615,718
GAME BOARD
Robert L. Robbins, Jr., Berkeley, Calif., assignor to Gordon L. Byers, Berkeley, Calif., as trustee
Application April 15, 1950, Serial No. 156,183
4 Claims. (Cl. 273—134)



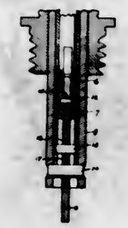
1. In a game board; a plurality of differently colored rectangular panels arranged edge to edge in a row; each panel having a trail extending from one corner of the panel to the diagonally opposite corner; these trails being composed of a plurality of adjacent rectangles touching each other only at their corners; the trails of adjacent panels being inclined in opposite directions and touching each other to form a combined trail which is zig-zag in shape; and playing pieces adapted to be moved along the trails.

2,615,719
MEANS FOR SHUFFLING DECKS OF PLAYING CARDS
William A. Fonken, Seattle, Wash.
Application July 29, 1950, Serial No. 176,673
3 Claims. (Cl. 273—149)



1. A shuffling device for playing cards, comprising: a stationary, box-like shuffling enclosure with an open top, the upper portions of the sides of said enclosure forming guideways, said enclosure having a length roughly approximately the length of three decks of cards and being wide enough to accommodate loosely therein a deck of cards on its side; a cover disposed to slide above and longitudinally of said enclosure and in said guideways, said cover having three depending, transverse lugs, disposed to engage cards in said enclosure, said lugs being spaced apart one from another longitudinally of said cover; a first resilient member positioned on one side and near one end of said enclosure and disposed to press against cards passing said member; a second resilient member positioned on the other side and intermediate the ends of said enclosure and disposed to press, in an opposite direction from said first resilient member, against cards passing said member; a ramp positioned on the floor of said enclosure in a central position and having sloping approaches facing each end of the enclosure; and a ramp, having a series of grooves spaced apart one from another, transversely of said enclosure positioned on the floor of said enclosure in the opposite end from said first resilient member.

2,615,720
RECORD CHANGER SPINDLE
Walter Miller and James L. D. Morrison, Benton Harbor, Mich.
Application December 1, 1949, Serial No. 130,442
6 Claims. (Cl. 274—10)



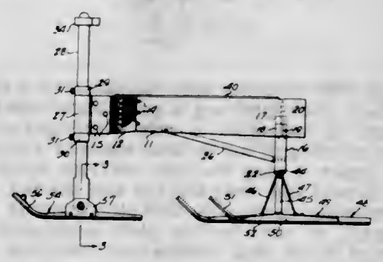
1. In a record changing spindle of the type upon which a stack of records is supported axially above and in spaced relation to a turn table, a tubular staff extending axially through a turntable, an annular row of circumferentially spaced record holding lugs carried by the staff above the turn table for movement vertically relatively thereto, means carried by the staff and contacting said lugs for yieldingly contracting said lugs within the peripheral confines of the spindle, a plunger mounted in said staff for movement vertically thereto, a cone mounted on the plunger for movement relative thereto within the lug contracting means, a spring carried by the plunger and bearing on the cone to advance said cone into yielding contact with the lug contracting means and cause the lugs to expand as the plunger is lowered in relation to the staff, a sleeve encircling said staff and movable vertically relative thereto, yieldingly extended record carrier fingers carried by the sleeve below the holding lugs for supporting the stack of records when the lugs are contracted, and means carried by the staff and engaging the carrier fingers for contracting said carrier fingers when the sleeve moves downwardly relative to the staff.

2,615,721
COLLET
George O. Gridley, Berlin, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application May 2, 1947, Serial No. 745,583
19 Claims. (Cl. 279—60)



19. In a device of the character indicated, a jaw member including a cylindrical seat-engaging surface, a seat member including a conical seat surface for the seat-engaging surface of said jaw member, means supporting said jaw member for movement generally radially of said seat member upon a relative longitudinal coacting displacement of said members, one of said surfaces being convex and the other concave, the concave surface being radially outside and the convex surface being radially inside with respect to the axis of said conical seat surface, the maximum effective radius of the inner of said surfaces being no greater than substantially the minimum effective radius of the outer of said surfaces.

2,615,722
CONVERTIBLE SCOOTER
Andrew X. Johnson, Milaca, Minn.
Application October 18, 1949, Serial No. 122,070
2 Claims. (Cl. 280—7.14)



1. In a scooter, an upstanding first straight side member, an upstanding second side member arranged in longitudinal spaced relation and at an angle with respect to said first named side member, said second side member having a portion on the forward end extending at an angle with respect thereto and secured to the straight side member inwardly of and adjacent the forward end of the last named member, an upstanding bolster arranged transversely of and between the first and second side members adjacent the rearward ends of the latter members and hav-

ing the upper ends spaced below the upper ends of said first and second side members and secured thereto, a flexible sheet stretched between and secured to said first and second side members and forming a knee-rest, the lower end of said bolster extending below and spaced from the lower ends of said first and second side members, an axle arranged adjacent to and in parallel relation with respect to the lower end of said bolster and carried by the lower end of said bolster, each of the ends of said axle projecting beyond the adjacent side edge of said bolster, a ground traversing element arranged longitudinally of said first and second members adjacent each of the projecting ends of said axle and supported on the adjacent projecting end of said axle, a vertically disposed tube arranged at and fixedly secured to the forward end of said first named side member, a steering post journaled in said tube and having the lower end below and spaced from said first named side member and having the upper end above and spaced from said first named side member, means carried by said steering post and engageable with the top and bottom of said first named side member for holding said post within said tube, a fork on the lower end of said steering post, another ground traversing element arranged longitudinally of said first and second named side members adjacent said fork of said steering post and rotatably connected to said fork, and a handlebar detachably secured to said steering post adjacent the upper end thereof.

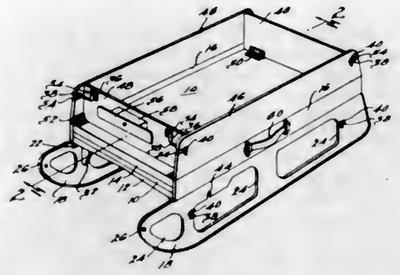
2,615,723
ROLLER SKATING SHOE
Michael Goldenberg, Merion, Pa.
Application October 2, 1947, Serial No. 777,412
4 Claims. (Cl. 280—11.2)



3. In a roller skating unit consisting of a roller skate and a shoe attached to said skate, said shoe consisting of an upper, a sole consisting of an insole element and an outsole element attached to said upper, a stop member carrying shaft attached to said sole near the toe end thereof, and a stop member carried by said stop member carrying shaft, an anti-curling plate positioned between said insole and outsole and overlying said stop member, said anti-curling plate consisting of a body member terminating in two spaced fingers, said spaced fingers receiving said stop member carrying shaft between them.

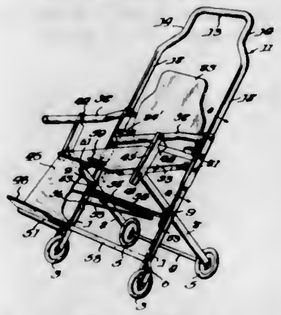
2,615,724
COLLAPSIBLE SLED
Walter J. S. Lee, Rochester, Mich.
Application June 27, 1949, Serial No. 101,641
4 Claims. (Cl. 280—20)

1. A collapsible sled comprising a bottom; runners pivotally connected to the bottom at opposite sides thereof, said runners normally depending from and disposed substantially at right angles to said bottom and foldable inwardly substantially parallel to the undersurface of said bottom; panels pivotally connected to the bottom at opposite ends thereof and between said runners, said panels normally depending from and disposed substantially at right angles to said bottom with the ends thereof abutting and reinforcing said runners and foldable inwardly flat against said bottom so as to lie under said runners when the latter occupy folded positions; and



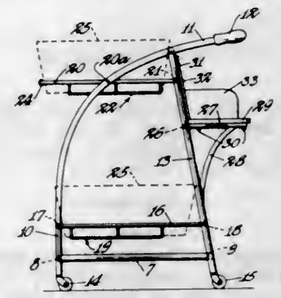
pivoted latch elements carried by said panels, all of said latch elements being swingable through openings in the runners and engageable in notches provided in the edges of such openings when the panels and the runners occupy extended positions whereby to hold the parts solidly in extended position and at least certain of said latch elements being also engageable in notches provided in the edges of said openings when both the panels and the runners occupy folded positions whereby to hold the parts solidly fastened together in folded position.

2,615,725
FOLDING GOCART
Nelson H. Person, Chicago, Ill.
Application March 31, 1949, Serial No. 84,689
18 Claims. (Cl. 280—41)



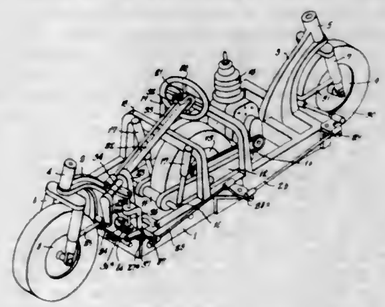
1. In a seating device, the combination of a pair of rear members, a pair of front members, each rear member being pivoted to a respective front member intermediate their ends, an extension member operatively connected to the free upper ends of said front members, said front and extension members being movable relative to one another whereby said extension member may be positioned substantially in the plane of said front members to form an extension thereof or folded into a position adjacent to and substantially parallel with said members, a pair of members slidably mounted on said extension member and movable to engage the upper portions of the respective front members to rigidly lock the extension member, in extended position, to the front members, and an object supporting structure including a rigid element extending adjacent to and pivotally connected to the upper ends of the rear members, said rigid element being pivotally connected to the respective slidable members operative to transmit downward forces from said rigid element to said slidable members and maintain the latter in locking position.

2,615,726
SHOPPING CART
Samuel G. Brottman, Minneapolis, Minn.
Application February 7, 1947, Serial No. 727,158
5 Claims. (Cl. 280—47)



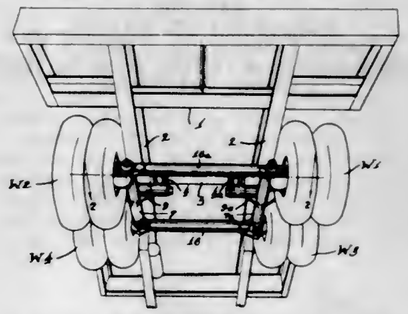
1. In a shopping cart, a frame including upwardly extending front and rear units having rollers on their lower ends, a generally horizontal basket support carried by said frame, a rearwardly facing seat fixedly connected to and supported rearwardly from said rear frame unit above said rollers and below said basket support, and that portion of said rear frame unit to which said seat is connected being disposed forwardly of the rollers on said rear frame unit.

2,615,727
STEERING MECHANISM FOR THREE-WHEEL VEHICLES
Charles Bancroft, New Canaan, Conn.
Application September 15, 1949, Serial No. 115,831
5 Claims. (Cl. 280—87)



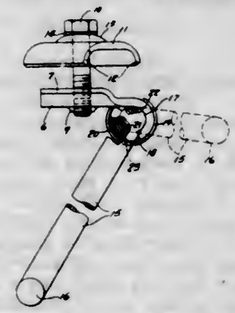
3. A vehicle including a plurality of wheels located one behind the other in substantial alignment with each other longitudinally respecting the vehicle, a wheel located between the first-named wheels and aligned longitudinally respecting the vehicle, means for connecting the first-named wheels pivotally to said vehicle so that they may be turned to steering positions relative to said vehicle, means for steering said front and rear wheels in directions causing swerving of the vehicle pivotally about the middle wheel, means for connecting the second-named wheel to said vehicle so that it may be shifted laterally relative to said vehicle, and means for turning the first-named wheels to respectively different steering angles relative to said vehicle and cause lateral shifting of said second-named wheel relative to said vehicle when said vehicle is moving.

2,615,728
TANDEM AXLE FOR TRAILERS
Luther J. Hughes, Reading, Pa.
Application November 2, 1951, Serial No. 254,576
3 Claims. (Cl. 280—104.5)



1. A tandem axle construction for trailers comprising a pair of walking beams pivotally mounted substantially centrally thereof on axes extending transversely of the trailer to enable movement of said beams in vertical longitudinal planes, two pairs of members, each pair swivelly mounted on opposite end portions of said walking beams, wheel-carrying axle portions rigidly secured to said last mentioned members, and telescopically fitted elements integrally secured to said members for joining each pair of said members forming the front and rear axles, respectively, and for maintaining them at right angles to said walking beams at all times, there being relative longitudinal sliding movement in a transverse direction of said telescopically fitted parts for increasing the distance between the interconnected members as the wheel axle tilts in a transverse vertical plane to compensate for road irregularities by insuring riding of all wheels on an irregularly surfaced roadway at all times.

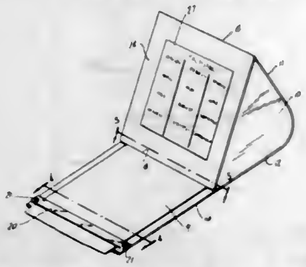
2,615,729
BICYCLE KICK STAND
Lyle C. Atwood and Howard W. Clay, Rockford, Ill., assignors to Atwood Vacuum Machine Company, Rockford, Ill., a corporation of Illinois
Application October 15, 1948, Serial No. 54,744
14 Claims. (Cl. 280—301)



1. A device of the character described comprising a tubular bearing, a supporting leg hav-

ing an angularly extending cylindrical end portion fitting in said bearing as a journal, said bearing having a longitudinal slot provided therein and said journal having circumferentially spaced longitudinal grooves provided therein arranged to register with said slot in different positions of angular adjustment of said supporting leg relative to said bearing, and a split sleeve spring tightly enclosing more than half of said bearing measured circumferentially pressing a detent element inwardly in said slot toward engagement in whichever groove is in register with said slot.

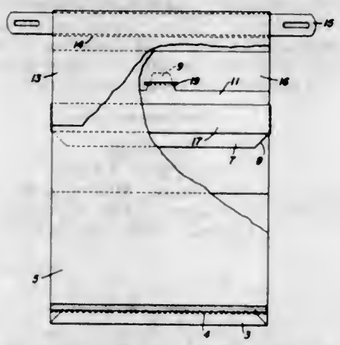
2,615,730
MEMORANDUM DEVICE
Harvey Lathrop, Forest Hills, N. Y.
Application March 14, 1951, Serial No. 215,521
1 Claim. (Cl. 281—6)



A memorandum device comprising a pair of upstanding substantially triangular side walls, a front wall slanting rearwardly upward, a rear wall slanting rearwardy downward, said walls defining a tent-like box adapted to accommodate a roll of paper arranged with its axis transverse to said side walls, a box bottom composed of overlying leaves the inner of which is hinged to said front wall and the outer of which is hinged to the rear wall, said box resting normally on both leaves and being tiltable rearwardly to rest on said rear wall and thereby expose the inner face of the outer of said leaves, said leaf being provided on said inner face with a pressure resistant material whereby when said box is tilted rearwardly said leaf is adapted to serve as a writing base for the end of the paper roll emerging from behind the free end of the inner of said leaves, a retaining strip mounted on said outer leaf adjacent its free end and extending parallel to said free end and slightly spaced from said leaf to permit passage beneath it of the end of said paper roll, and a means for releasably interengaging said inner leaf and the side walls of the box to retain said inner leaf in a closing relation to said side walls whereby said paper roll is retained within the box during the tilting movements thereof.

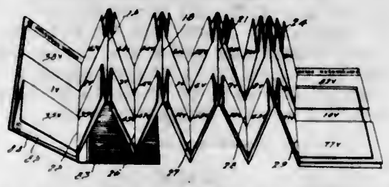
2,615,731
CARBON PAPER HOLDER FOR MANIFOLDING TYPEWRITERS
Joseph Carroll Doyle, Rochester, N. Y., assignor to Kee Lox Manufacturing Company, Rochester, N. Y., a corporation of New York
Application February 16, 1951, Serial No. 211,352
6 Claims. (Cl. 282—1)

1. The combination with a flexible holder that is permanently attachable to a supporting bar of a manifolding typewriter, of a carbon paper pack consisting of a backing sheet and a series of folded carbon paper sheets each attached at one end to the backing sheet, said flexible holder including a fabric support of approximately the width of the carbon paper pack, a band carried by the fabric support and spaced therefrom, the ends of said band extending to the side edges of the fabric support and permanently attached thereto,



said flexible holder having a slot therein, and tongue and finger means on the backing sheet detachably and interlockingly engageable with said band and slot respectively of the flexible holder.

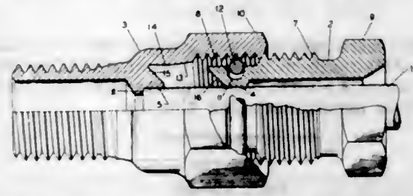
2,615,732
MAP CAPABLE OF BEING FOLDED TOGETHER AND SPREAD FLAT AGAIN
Gerhard Ernst Albrecht Falk, Hamburg, Germany
Application March 14, 1950, Serial No. 149,631
In Germany March 14, 1949
2 Claims. (Cl. 283—34)



1. A map capable of assuming a book-like form, comprising a middle strip having a plurality of longitudinal panels folded in accordion fashion to form a book, a plurality of cross-flaps extending from the upper and lower edges of said middle strip, each of said cross-flaps being folded in accordion fashion, the cross-flaps along said upper and lower edges each being separated into sections by a plurality of slits along those alternate fold-breaks between said longitudinal panels which are in the front of the book, said slits extending to the upper and lower edges of the book, the longitudinal fold-breaks lying on the book spine running through said cross-flaps in the same folding direction when the cross-flaps are folded together, the cross-flaps being so dimensioned and folded that there remains a gap between each pair of opposite cross-flaps when folded together, whereby both cross-flaps of a pair are simultaneously accessible for unfolding when a pair of adjacent panels are unfolded.

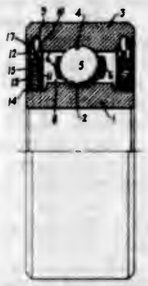
2,615,733
PIPE FITTING
Alexander N. Watson, East Cleveland, Ohio, assignor of one-half to Joseph A. Rini, Shaker Heights, Ohio
Application February 7, 1950, Serial No. 142,835
4 Claims. (Cl. 285—166)

1. A detachable pipe coupling comprising a male member and a female member in which the pipe is carried, the main body portion of said male member having its inner surface annularly recessed to loosely receive the pipe with appreciable annular clearance and having an end portion with an axially elongated collar surrounding the pipe with relatively lesser clearance, an expansible aligning snap ring loosely carried in a circumferential groove near the end of said male member and past the screw-threads of said male member, the inner surface of said female member having an angularly radially inwardly extending chamfer to exert an angularly radially inward compressive force on said snap ring, the outer end of said male member being chamfered and the female member having an internal



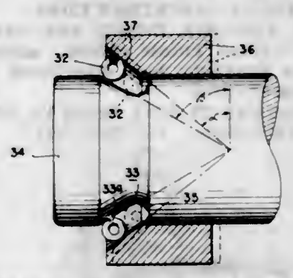
flange the front of which is chamfered correspondingly to the chamfered end of said male member as the latter is adapted to bottom against the chamfer of said internal flange, the compressive action of said first chamfer against said snap ring being adapted to provide a seal between said male and female members and, in cooperation of said abutting chamfers of said male and female members, to clamp said male and female members onto said pipe and provide a seal therebetween, the collar of said male member being adapted to be rocked axially to have one of its ends forced inwardly to penetrate the outer surface of said pipe upon manual tightening of the screw-threaded connection between said male and female members.

2,615,734
LUBRICANT SEAL FOR BEARINGS
Ralph E. Parry, Cleveland, Ohio, assignor to General Electric Company, a corporation of New York
Application March 27, 1951, Serial No. 217,845
1 Claim. (Cl. 286—5)



A lubricant seal for a radial bearing having an inner member and an outer member in co-axially spaced relation with each other to provide relative rotation with respect to each other, and lubricant in the space between said members; said seal comprising: a first of said members provided with a U-shaped groove therein having sloped side surfaces and a shoulder adjacent one side of said groove, both facing the inner of said members; a first annular disk with an edge thereof engaging said shoulder; a second annular disk having a radial slot therein and having the outside diameter thereof greater than the maximum diameter of said groove when said disk is in its unstressed condition, the outer edge of said second disk slidingly engaging and being in radial resilient stress with the sloping side surface of said groove opposite said sloping side surface adjacent said shoulder; an annular rib projecting from said first disk toward said second disk; said first and second disks defining the axial bounds of a clearance space therebetween of such width that said rib cannot engage said first disk before said first disk has reached the limit of its radial expansion within said groove; and an annular sealing disk of lubricant restraining material between said first and second disk having the inner edge surface thereof in sealing contact with the inner of said members and the outer edge surface thereof in contact with said rib, the axial thickness of said sealing disk with respect to said clearance space being such that the groove engaging edge of said second disk cannot travel to the point of maximum diameter of said groove; the radial stress of said second disk forcing said outer edge of said second disk toward the center of said groove, compressing said sealing disk between said first and second disks and into contact with the inner of said members.

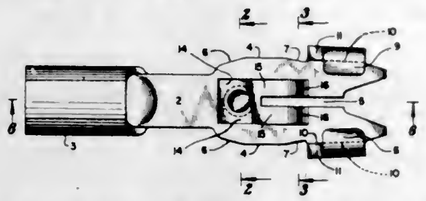
2,615,735
SPRING RETAINING RING FOR MACHINE PARTS
Heinrich Heimann, New York, and Lawrence Brozek, Jackson Heights, N. Y., assignors to Waldes Kohinoor, Inc., Long Island City, N. Y., a corporation of New York
Application December 27, 1949, Serial No. 135,236
2 Claims. (Cl. 287—53)



1. A retaining ring assembly including a machine part carrier provided with an annular groove having an outer conical wall, a machine part carried by said carrier and positioned with an end face overhanging the inner wall of said groove, said end face having a conical surface, the conical outer wall of the groove and the conical surface of said end face providing ring seating and ring abutment surfaces, respectively, and a retaining ring seating on said seating surface and protruding from said groove so as to abut against the aforesaid abutment surface, thereby to locate said machine part and secure it against axial displacement with respect to the carrier, said retaining ring comprising a length of helically coiled wire extending along an arc of substantially constant radius and having its ends spaced from one another, said ring having a free diameter in which said wire is unstressed but being stressed when seated as aforesaid so as to have pressure fit against the conical outer wall of the groove, the inclination of said conical outer wall being such as to cause the retaining ring to tend to slide axially inwardly towards the groove inner wall, and the angle of inclination which said conical outer wall bears to a normal to the axis of

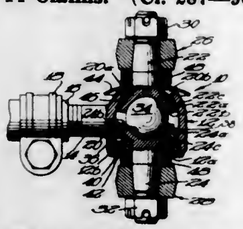
the carrier being greater than the corresponding angle which the conical surface of said machine part end face bears to said normal.

2,615,736
ELECTRICAL CLASP CONNECTOR
Martin D. Bergan, Westfield, and Maxwell A. Graham, Elizabeth, N. J., assignors to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey
Application November 1, 1948, Serial No. 57,706
14 Claims. (Cl. 287—76)



1. An electrical disconnect terminal having an outer end which receives a conductor adapted to be connected therewith; and the inner end of the terminal comprising a flat contact head, in the form of a fork, having spaced resilient prongs, which flex in relation to each other, in the plane of said flat contact head; and a clasping ear formed on the free end of each of the two resilient prongs, both clasping ears being disposed on the same side of the plane of the flat contact head, and adapted to disengageably connect with the flat contact head of another like terminal.

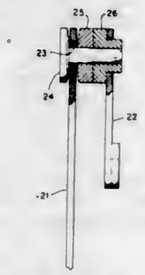
2,615,737
JOINT CONSTRUCTION
Marshall H. Alldredge, Detroit, and Matthew P. Graham, Grosse Pointe, Mich., assignors to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 20, 1949, Serial No. 105,836
14 Claims. (Cl. 287—90)



4. A tie rod joint having an open-ended casing provided with means for connection to a tie rod, a pair of oppositely disposed stud elements extending from the ends of said casing, seating and centering means cooperative with the internally disposed ends of said stud elements whereby said stud elements tilt and/or rotate about a common center, and resilient means urging said stud elements and said seating and centering means toward one end of said casing for bottoming a stud element in bearing relation with the casing.

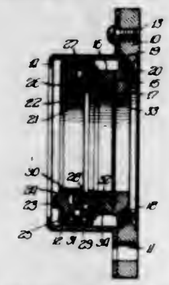
2,615,738
LINKAGE CONNECTOR
Clarence Johnson, South Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application March 18, 1950, Serial No. 150,365
9 Claims. (Cl. 287—96)

1. A pivot connection between two members of a linkage system including, a driven member having a hole therethrough, a pin free to rotate in the hole of the driven member, a magnetized first body connected to said pin with said driven



member restrained between the pin head and said body, a driving member, and a magnetized second body connected to the driving member and having a hole accommodating the pin.

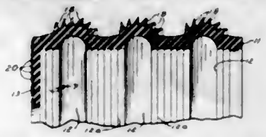
2,615,739
OIL SEAL
Rudolph John Vedovell, Kenilworth, Ill., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 8, 1948, Serial No. 1,222
4 Claims. (Cl. 288—3)



1. In an end face seal of the type characterized by a mating ring, a relatively rotatable nose piece for sealing engagement with the ring, and expansion means behind the nose piece connected with the latter for pressing the nose piece axially against the ring, which seal is adapted for application to a face of one member about a relatively rotatable shaft, in endwise abutment with a face of a second member associated with said shaft; the provision of a self-contained unit for housing the aforesaid seal parts in operative relation to each other for ready application to the aforesaid shaft and members, said unit including a rigid annular plate for detachable fluid-tight engagement with the face of the first mentioned member, means for floatingly supporting the mating ring of the seal from said plate, and a tubular casing of less diameter than the plate distinct from but fixedly supported by and extending axially from the latter in encompassing but slidably guiding relation to the expansion means of the seal, which casing is open at its far end to permit abutment of the expansion means of the seal with the face of said second member, in the operatively installed condition of the seal, and is provided at such end with integral means for axially engaging and retaining the expansion means against removal, said casing being provided with a radially extending flange disposed in face-to-face engagement with said plate and having means securing said flange to said plate, said plate and casing serving to maintain the mating ring and

nose piece of the seal in approximate register prior to installation of the unit, said casing functioning before and after installation as a protective covering for all said seal parts, said expansion means being axially compressed in said installed condition to a position out of axial engagement with said retaining means.

2,615,740
SEALING RING
Tracy D. Nathan, Cuyahoga Falls, Ohio, assignor to Hamilton Kent Manufacturing Company, a corporation of Ohio
Application September 3, 1948, Serial No. 47,727
2 Claims. (Cl. 288—19)



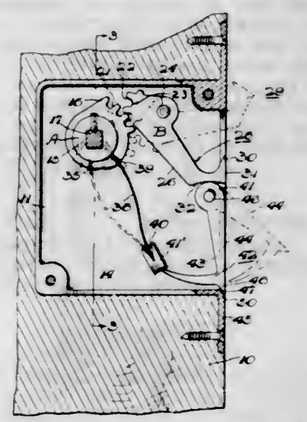
1. A sealing ring for bell-and-spigot pipe, said ring having a tubular radial-compression wall portion which comprises a series of spigot-gripping annular base elements having respective internal annular footing surfaces for gripping the spigot, the said base elements being connected in series by axially intervening hollow annular portions each of stable arch form, the spigot-gripping internal footing face of each base element being, when the ring is in an unstrained condition, of axial span greater than the wall thickness of each of the adjacent legs of the adjacent arch portions, each of said base elements thus constituting a buttress for said legs of the said arch portions so that the said footing faces are not substantially extended axially by radial compression of the ring against the spigot, and each of said arch portions being of such stability as an arch, by reason of wall thickness and shape of the arch, as to maintain the arches in substantially the same symmetrical arch form in their being radially compressed by axial movement of the ring, with the spigot therein, into the bell.

2,615,741
SEALING RING
Tracy D. Nathan, Cuyahoga Falls, Ohio, assignor to Hamilton Kent Manufacturing Company, a corporation of Ohio
Application July 11, 1949, Serial No. 103,989
1 Claim. (Cl. 288—19)



A resiliently deformable sealing ring for a fluid-retaining joint, said ring comprising an annular body portion formed with an annular cavity enhancing its radial compressibility and defined, at one periphery of said body portion, by an annular, flexible wall, the ring having, integral with said body portion, an annular sealing rib of which the base is positioned substantially at and merges with a solid annular part of the body portion which constitutes a side wall of the cavity, the said rib being of such radial height and of such lateral thinness and flexibility, and of such dimensions in relation to those of the other parts of the ring, that, upon being laterally bent in axially mating with a pipe member, the rib, substantially without change of position of its base, will exert as a sealing pressure only the recoil of its own flexure if only moderately distorted by the mating movement, but, if more pronouncedly distorted by the mating movement, will by its further flexing depress the said flexible wall, by force applied to said wall at a substantial distance from the base of the rib, and thus will have added to the force of its own recoil, to augment the sealing pressure, the recoil of the said flexible wall.

2,615,742
SLIDING DOOR LOCK
Claire D. Lloyd, West Palm Beach, Fla., assignor to Harkiso Corporation, Palm Beach, Fla., a corporation of Florida
Application January 6, 1947, Serial No. 720,366
4 Claims. (Cl. 292—96)



1. A lock for a sliding door comprising a hollow casing adapted to be disposed in a door lock recess, said casing having an opening in the front thereof, a shaft rotatably mounted in the casing, means on the exterior of the casing for rotating said shaft, a gear secured to and rotatable with said shaft, said gear having a slot therein, a member pivoted in the casing, said member having a hook at one end and being disposed so that it is rotatable between a position at which the hook thereof protrudes through said opening and a position at which the hook is retracted within the casing, abutments for limiting the movement of said member between said positions, a toothed segment carried by the said member in mesh with said gear, whereby said member may be moved between its said positions of protraction and retraction by rotation of said shaft, a lug secured within the casing having a notch therein, and a resiliently bowed bar having one end disposed in the slot and the other end in the notch to bias said gear in a direction defined by the position of the bar relative to a radial reference line between said gear and notch.

2,615,743
FASTENING DEVICE
Russell Niva, Waukegan, Ill.
Application September 6, 1949, Serial No. 114,233
6 Claims. (Cl. 292—128)

1. In a fastening device for releasably holding together two relatively movable members and having first and second elements engageable with

each other and secured one to each of the two relatively movable members respectively, a base element secured to one of said members and having walls opposite one another for supporting said first element, said walls having opposite openings therein and opposite slots which form extensions of the openings, said first element being pivotable with respect to said base element between an engaging position and an open position about a pair of ears rigidly connected to said first element, each of said ears extending through one of said openings in said base element, the edges of said



base element forming one portion of each of said openings being shaped to provide an inside corner serving as a bearing for a first edge of one of said ears, the edges of said base element forming the opposite side of each of said openings being concavely arcuate to form a guide for a second edge of said one of said ears, said second edge of said one ear being insertable into the slot forming an extension of said opening when said first element is in said open position, and said first edge of said one ear withdrawing from said corner when said second edge of said one ear enters said slot.

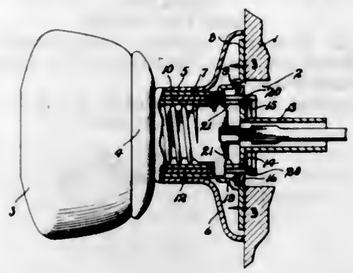
2,615,744
ROTARY DOOR PULL AND CATCH
Angelo Colonna, Philadelphia, Pa.
Application April 18, 1949, Serial No. 88,161
2 Claims. (Cl. 292—169)



2. A door pull and catch combined comprising a single casting embodying a casing having an escutcheon plate integral therewith, a door pull rotatively mounted on and having a shank extending through said plate into said casing, a bolt slidably mounted for operation in said casing, spring means cooperating with and biasing the bolt in one direction, means operatively connecting said bolt with said shank, said door pull having a shoulder engaging a portion of said escutcheon plate to prevent axial movement of the door pull in the opposite direction, said door pull having diametrically disposed handles provided with recesses on the sides thereof adjacent to said plate, said last mentioned portion being a central boss and said escutcheon plate having an annular recess opposite to the recesses in the handles to facilitate entrance of a person's fingers behind said handles, said escutcheon plate having walls dimensioned to span a door panel whereon the device is used so that said casing is supported by said escutcheon plate and disposed on the side of the panel remote from said door pull.

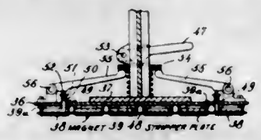
2,615,745
DOORKNOB CONSTRUCTION
Herbert Young, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application November 21, 1949, Serial No. 128,636
1 Claim. (Cl. 292—348)

In a structure as described, a knob shank; an escutcheon member adapted to be fixed to a side of a door through which the knob shank extends; a retaining member at the outer side and at the inner end portion of said knob shank; a filler washer surrounding the knob shank between said retaining member at the inner end portion of said knob shank and said escutcheon member and adapted to bear thereagainst, and said filler washer being one of a plurality of thicknesses selected to substantially fill the space between



said retaining member and the bearing portion of said escutcheon member against which the washer is adapted to bear; said retaining member comprising a ring of flat metal parted at one side of the ring and at said parting having radially inwardly extending lugs located in edge to edge contact; said ring at its opposite side having a radially inwardly extending lug, and said knob shank having openings in opposite sides for reception of said lugs.

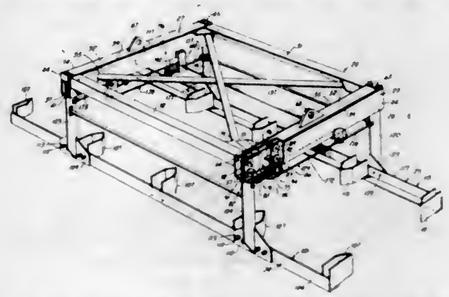
2,615,746
CRATE UNLOADER
Paul E. Fischer, Portland, Conn., assignor, by mesne assignments, to Emhart Manufacturing Company, a corporation of Delaware
Original application June 3, 1944, Serial No. 538,565. Divided and this application April 8, 1949, Serial No. 86,411
14 Claims. (Cl. 294—65.5)



1. A device for lifting containers comprising a support, a plurality of permanent magnets having both magnetic pole faces in the same plane to enable both of said poles simultaneously to engage the tops of the containers, means for securing said magnets to said support in a manner to allow limited freedom of movement thereof with respect to the support, a stripping member movably mounted on said support adjacent each of said magnets, and means mounted on the support for simultaneously moving said stripping members relative to the magnets to a position to disengage the containers from the magnets.

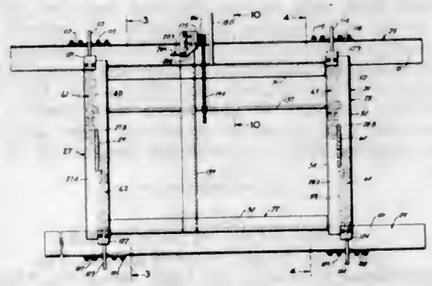
2,615,747
GRAB
Walter J. Olson, Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware
Application January 26, 1949, Serial No. 72,815
5 Claims. (Cl. 294—67)

1. In a grab, a frame including two elongated boxes each having walls and each having elongated slots formed in, and extending longitudinally of, one of the walls thereof, two pairs of carriages mounted in said boxes and movable longitudinally thereof, each of said carriages comprising a body member, and two pairs of rollers rotatably mounted on said body member with one of said pairs of rollers disposed outwardly of the other of said pairs of rollers longitudinally of one of said boxes, each of said carriages of each of said pairs being mounted in a respective one of said boxes with said rollers on said carriages in engagement with said box for supporting said body member therein, a pair of



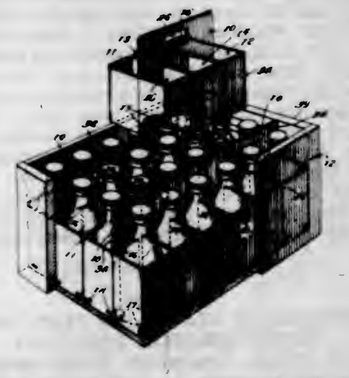
grappling members, each of said grappling members comprising a jaw member and two drop legs mounted thereon, each of said grappling members being supported by a corresponding one of said pairs of carriages with each of said legs extending vertically through a predetermined one of said slots and mounted on a respective one carriage of said corresponding one pair of carriages between said one pair of said rollers on said carriage, and means for moving said carriages longitudinally of said boxes to thereby move said grappling members toward and away from each other.

2,615,748
GRAB
Walter J. Olson, Clifton, N. J., assignor to American Brake Shoe Company, New York, N. Y., a corporation of Delaware
Application January 26, 1949, Serial No. 72,816
6 Claims. (Cl. 294—67)



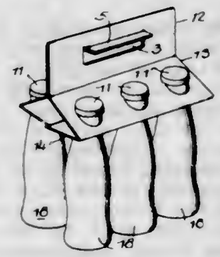
1. In a grab, a frame including two elongated boxes, each having a top wall, a bottom wall, side walls, and a vertically disposed partition wall dividing said box longitudinally into two chambers, two pairs of carriages mounted in said boxes, each of said carriages comprising a body member and a plurality of rollers rotatably mounted thereon and projecting therefrom, each of said carriages being mounted in a respective one of said chambers in a respective one of said boxes for movement longitudinally thereof with predetermined ones of said rollers in engagement with the said bottom wall of said box, predetermined other ones of said rollers in engagement with the said top wall of said box, and other rollers in engagement with said partition wall and one of said side walls of said box, each of said carriages of each of said pairs being mounted in a chamber of a respective one of said boxes, two grappling members, each of said grappling members being mounted on and suspended from a respective one of said pairs of carriages for movement therewith longitudinally of said boxes, and means connected to said grappling members for moving said grappling members and said pairs of carriages toward and away from each other longitudinally of said boxes.

2,615,749
BOTTLE CARRIER
Joseph C. Kuchel, Arlington, Va.
Application July 25, 1950, Serial No. 175,820
5 Claims. (Cl. 294—87)



1. A bottle carrier comprising a plurality of vertically disposed bottle carrying cells the upper and lower ends of which are open, a center panel having an upwardly extended end with a hand receiving opening therein positioned between the cells and rubber ball like friction elements positioned in the cells and spaced from the lower ends thereof for frictionally retaining bottles in the cells.

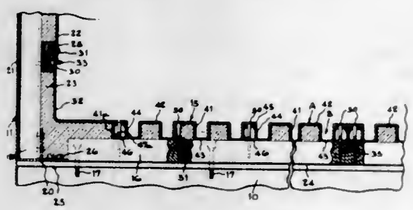
2,615,750
BOTTLE CARRIER
William L. O'Sullivan, Milwaukee, Wis.
Application September 3, 1948, Serial No. 47,739
1 Claim. (Cl. 294—87.28)



A device for supporting an article having, in downwardly progressive vertical order, an enlarged portion, a restricting portion, a second enlarged portion, a second restricting portion and a neck portion, said device comprising a blank cut and scored from sheet material to form a suspending part and an article engaging part

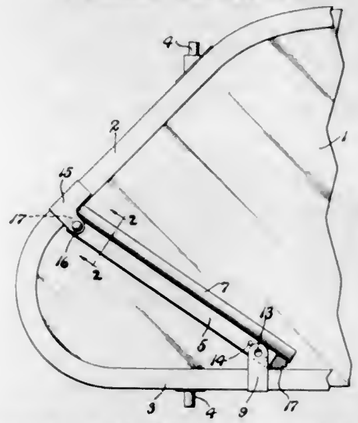
with a fold line therebetween, said article engaging part comprising a member extending integrally outwardly from the suspending part and foldable with respect thereto and a second member having a free end foldable under the first named member and integral with the outer end of the first named member, the free end of said second member being independent of said suspending part, said first named member having a large article receiving aperture adapted to pass over the two enlarged portions of the article, every diameter of said aperture being larger than the diameter of the two enlarged portions of the article when said outwardly extending member is in a horizontal position and the lesser diameter of the horizontal projection of said aperture being smaller than the diameter of the two enlarged portions of the article when the outwardly extending member is in an angular position whereby an inner portion of the circumference of said aperture embraces the article beneath said first enlarged portion and an outer part of the circumference of the said aperture embraces the second restricted portion of the article beneath said second enlarged portion in suspending an article from said first part, and the said second named member having a large article receiving aperture adapted to pass over the two enlarged portions and the neck portion of the article, every diameter of said aperture being larger than the diameter of the two enlarged portions of the article, so that said aperture embraces the neck portion of said article to maintain it in substantially vertical alignment.

2,615,751
EXTRUDED FLOOR SECTION FOR REFRIGERATOR VEHICLES
James J. Black, Cincinnati, Ohio, assignor, by mesne assignments, to Trailmobile Inc., a corporation of Delaware
Application April 14, 1950, Serial No. 155,863
10 Claims. (Cl. 296—28)



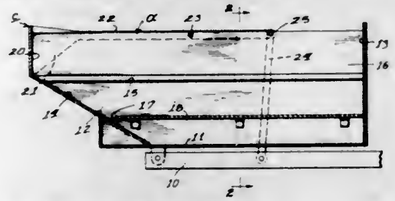
1. A floor structure adapted to provide a series of channels for air circulation and drainage comprising, a plurality of elongated floor sections of corrugated cross section providing alternate longitudinal support surfaces and drainage channels, each of the floor sections having opposite marginal flanges constructed and arranged to overlap the marginal flange of an adjacent floor section substantially in the plane of the support surfaces when the sections are assembled in contiguous relationship, each of the floor sections having a base flange and cooperating locking means along opposite longitudinal edges parallel with and spaced downwardly from the marginal flanges, said base flange being adapted to be engaged by said locking means when the sections are assembled in contiguous relationship and provide a hollow box section, and means adapted to clamp the hollow box section in assembled relationship.

2,615,752
VEHICLE VENTILATING WINDOW ANTIDRIP DEVICE
Yates M. Hoag, Utica, N. Y.
Application January 17, 1951, Serial No. 206,370
5 Claims. (Cl. 296—44)



1. A structure as described comprising, a bar adapted to be located at the lower front portion of a motor vehicle ventilating window, said window being adapted to be mounted to turn about a vertical axis, a yielding resilient member located at the inner side of the bar, having two diverging portions at its upper edge extending above the upper edge of the bar, the inner of said diverging portions adapted to come against the outer side of the glass of said window, attaching means one at each end of the bar adapted to have connection with the upper and lower frame members of the glass of such ventilating window the length of the bar and of said resilient member at the inner side thereof being such, that when attached to the ventilating window the rear ends of said bar and resilient member are lower than the forward ends thereof and back of the vertical axis of movement of the ventilating window to which attached, said bar having a clip at its front end adapted to have a detachable snap connected with the upper frame member of the window with which associated, and said bar at its rear portion and at its outer side having a plurality of spaced depressions therein, and a clip adapted to have detachable snap connection with the lower frame member of a window on which the bar and resilient member at the inner side thereof are mounted, and a means extending from said clip for entrance into a preselected depression in the bar.

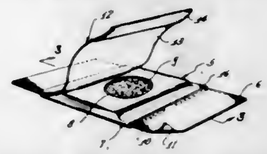
2,615,753
DUMP BODY STRUCTURE
James H. Shipe, Winter Haven, Fla.
Application November 18, 1947, Serial No. 786,590
3 Claims. (Cl. 298—17)



1. In a dumping vehicle, the combination with a chassis, and a body supported on said chassis

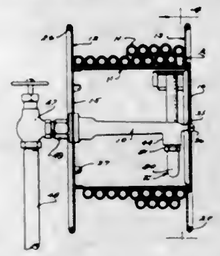
and mounted for pivotal movement about a horizontal axis, said body embodying a bottom wall, a pair of spaced, parallel side walls projecting from said bottom wall and secured thereto, a front wall extended between said side walls and secured thereto and to said bottom wall, an upwardly and rearwardly inclined rear wall extending from said bottom wall and secured to said side walls, said rear wall having its rear end edge in a plane a substantial distance below the top edges of the side walls providing a rear material discharge space, of a false bottom arranged in spaced parallel relation above said bottom wall and releasably mounted in said body, said false bottom having one end contiguous to said front wall and its other end terminating at a distance from and above said inclined rear wall to define a transverse opening for the egress therethrough of liquid.

2,615,754
SACHET
Fred Lindenberg, Los Angeles, Calif.
Application March 7, 1949, Serial No. 79,927
8 Claims. (Cl. 299—24)



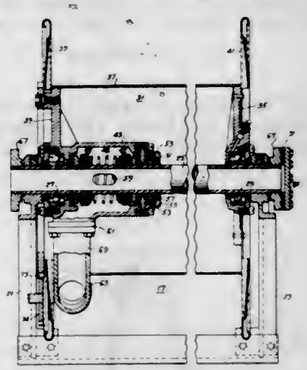
1. In a sachet of the class described: a flat, oblong base strip; an overlapping oblong strip positioned crosswise against an upper surface of said base strip and with its ends folded around and under said base strip, said strips being cemented together along edges thereof whereby to define an enclosure therebetween and said overlying strip having a central aperture therein; a body of absorbent material in said enclosure; a layer of tacky adhesive on the lower surface of said base strip; and a removable closure strip adhesively secured to the upper surface of said overlying strip whereby to close said aperture.

2,615,755
HOSE REEL
Harvey B. Crawford, La Canada, Calif.
Application June 7, 1949, Serial No. 97,608
7 Claims. (Cl. 299—78)



2. In a hose carrying structure of the character described, a hose reel including a cylindrical hose carrying drum, annular flanges concentric with the drum and projecting radially outward from the ends of the drum, a hub spaced from and located centrally within the drum, an extension of the flange at the inner end of the drum extending radially inward from said end of the drum and carrying the inner end of the hub, and an elongated arm extending across the outer end of the drum diametrically thereof and carrying the outer end of the hub, an unrestricted tubular spindle entering the hub from the inner end of the reel and opening into the outer end portion of the hub and being the sole support rotatably carrying the reel, a valve connected to the spindle at the exterior of the reel adjacent the inner end thereof, and means connecting the hose to the hub within the drum and accessible through the opening outer end of the drum.

2,615,756
HOSE REEL
Albert J. Granberg, Oakland, Calif., assignor of 7.99 per cent to Chesley M. Walter, 4.42 per cent each to Albert S. Kozman and Jacob E. Peregrine, 2.21 per cent each to Harvey May and Leslie E. Alley, 1.10 per cent to James E. Smith, and 22.13 per cent to Robert W. Lindsay
Original application February 12, 1945, Serial No. 577,567. Divided and this application October 27, 1945, Serial No. 624,961
1 Claim. (Cl. 299—78)

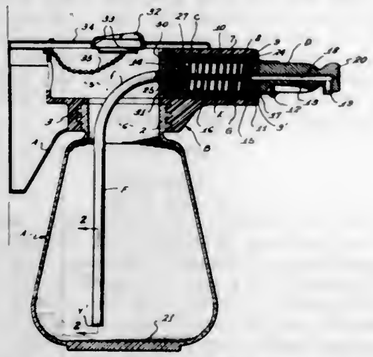


A hose reel for mounting on a truck, comprising a pair of parallel spaced end supports, a hollow shaft fixedly supported on said end supports and having one end closed; a reel drum rotatably mounted on said shaft, said reel drum including a pair of end spiders, a drum cylinder carried by said spiders and surrounding said shaft, and a hose confining rim affixed to each of said spiders adjacent the ends of said drum cylinder; a housing extending inwardly to an intermediate point within said drum cylinder from one of said spiders and having communication with the interior of said shaft, a lead-off hose connection extending from said housing to the surface of said drum cylinder adjacent one of said hose confining rims; and a power drive connection to said reel, including a gear on one of said spiders for engagement by a drive pinion.

2,615,757
LATHER DISPENSER
Arthur L. Bobrick, Pasadena, Calif.
Application June 5, 1950, Serial No. 166,138
5 Claims. (Cl. 299—84)

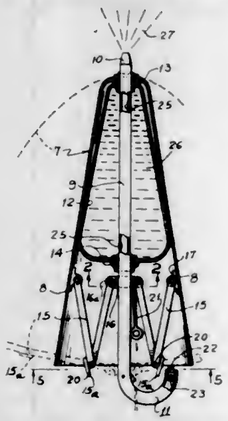
1. In a lather dispensing mechanism having a container for a dispensable soap: a stationary cylinder secured to said container, a right angularly bent barrel secured at one end thereto and provided at its other end with a valve for regulating flow of a soapy liquid from a source into the barrel, a piston vertically reciprocable in the barrel, an operating plunger horizontally reciprocable in said cylinder, and a flexible stem

formed of closely coiled wire right angularly bent and secured at opposite ends to said piston and said plunger, means for admitting air from said cylinder as a charge of liquid resident be-



tween said valve and said piston is raised in the barrel to a point of mixture with air from said cylinder preparatory to expulsion through said stem and said plunger for use.

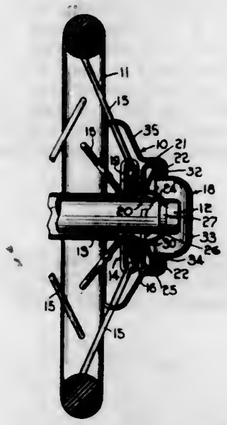
2,615,758
PERFUME DISPENSING IMPLEMENT
Mary Mildred Alexander, Los Angeles, Calif.
Application April 24, 1951, Serial No. 222,558
4 Claims. (Cl. 299—90)



1. In a perfume dispenser, a parasol like structure comprising a tubular axial shaft provided with a spraying nozzle at one end and a handle at its opposite end and with a collapsible side wall portion surrounding said shaft, an elastic bag containing perfuming fluid and surrounding said tubular shaft in a fluid dispensing communication therewith, said bag being deflated and ejecting the perfume through said nozzle when said side wall portion is forcibly collapsed against the bag.

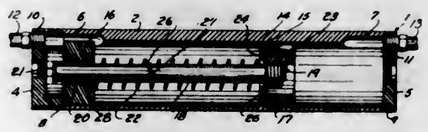
2,615,759
HUBCAP
Philip D. Becker, Hingham, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application June 16, 1949, Serial No. 99,423
3 Claims. (Cl. 301—112)

2. A wheel retaining hub cap assembly for releasably securing a wheel on an axle comprising a bearing plate and a pressure plate, rim means for maintaining said plates in superposed relationship, and a ratchet plate having a body portion radially spaced from and circumferentially disposed about an axis in engagement with said bearing plate, a plurality of resilient locking fingers extending radially inwardly and away from said bearing plate and adapted to engage a



groove of an axle to secure the assembly thereon, and a plurality of pressure fingers extending radially outwardly and away from said bearing plate and providing end portions in engagement with said pressure plate, whereby upon the application of compressive forces to said plates said locking fingers are caused to swing radially outwardly.

2,615,760
SAFETY DEVICE FOR HYDRAULIC BRAKES
Fred R. Johnson, Kansas City, Mo.
Application March 28, 1949, Serial No. 83,878
10 Claims. (Cl. 303—84)



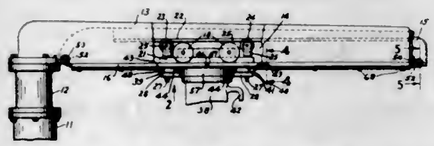
1. In combination with a hydraulic braking mechanism including a master cylinder and a plurality of brake cylinders operated thereby and having individual ducts connecting said brake cylinders with the master cylinder, a safety lock in each duct including a casing having a piston chamber provided with an inlet in connection with the master cylinder and an outlet connection with the brake cylinders, tandemally-spaced pistons having movement in the piston chamber upon actuation of the master cylinder and arranged to alternately close flow from the inlet to the outlet when one of the pistons is in position to connect said inlet and outlet with the space between said pistons, and means for latching the piston at the inlet end from return to a position uncovering the inlet when the other piston is in position to connect the outlet with the space between said pistons.

2,615,761
PRESSURE SEALING CONSTRUCTION
Ralph L. Skinner, Detroit, Mich., assignor, by mesne assignments, to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application March 29, 1946, Serial No. 658,256
8 Claims. (Cl. 308—3.5)



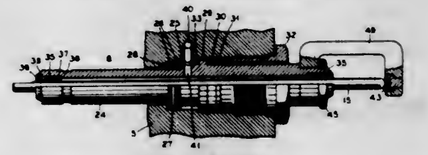
1. A fluid-pressure sustaining appliance comprising a cylinder, a bearing screwed into an end of said cylinder, a piston initially fitting accurately in said bearing, and a pressure-seal mounted in said cylinder alongside said bearing and encircling said piston, said pressure-seal having a slight play transversely of the bearing to allow the seal to conform to relative lateral movement between the cylinder and piston, said pressure seal including a resilient truncated-cone reed-type element surrounding and edgewise engaging the piston, said pressure seal in addition having a gasket-seal between itself and said bearing, and another gasket-seal between itself and said cylinder.

2,615,762
TOOL CARRIAGE SUPPORT AND DUST GUARD THEREFOR
Carleton P. Gesner, New Haven, Conn.
Application May 27, 1947, Serial No. 750,777
10 Claims. (Cl. 308—3.5)



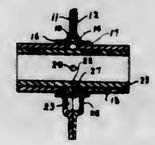
1. In a tool carriage support, an arm having a slot provided threin substantially its entire length and open at the bottom surface of said arm, a flat surfaced track on the bottom surface of said arm at each side of said slot, a carriage having flat faced side rollers adapted to ride upon the upper surface of said tracks, a depending track in the slot of said arm, rollers on said carriage engaging said depending track, each of said last mentioned rollers having a flat faced intermediate portion and end flanges with opposing outwardly and upwardly inclined faces, said depending track having inclined converging side faces to engagingly cooperate with the inclined faces of said rollers to guide the carriage along the first mentioned tracks.

2,615,763
LEAKLESS LOW FRICTION BEARING
Clyde E. Wolford, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application December 27, 1948, Serial No. 67,279
8 Claims. (Cl. 308—36.1)



1. In combination, a rotatable shaft circular in cross section and having a microfinished surface, and a bearing in which said shaft rotates, said bearing comprising a sleeve, an apertured washer-like bushing of relatively inert waxy plastic material mounted in the sleeve with the periphery of the bushing in snug engagement with the inner surface of said sleeve and with the principal plane of the bushing extending at right angles to the main axis of said sleeve, shrouding rings to receive said shaft therethrough and snugly contacting the respective flat surfaces of the bushing, each shrouding ring having its periphery contacting the inner surface of said sleeve, the shrouding rings being out of contact with said shaft with but a limited clearance therebetween, the aperture through the bushing being circular to receive said shaft for rotation therein and having a diameter of approximately the diameter of said shaft whereby there is a close fit between the bushing and said shaft.

2,615,764
HUB
James M. Leake, Monroe, Mich.
Application July 10, 1948, Serial No. 38,105
6 Claims. (Cl. 308—110)

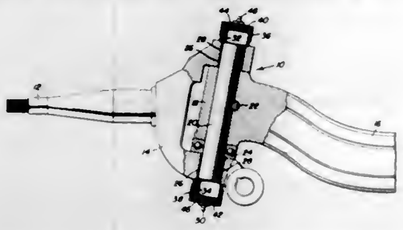


1. A hub comprising superimposed layers, an annular groove formed by said superimposed layers, annular flanges integral with and extending in opposite directions from said superimposed layers in axial alignment with said annular groove, and a tubular bushing located in said annular flanges and permanently secured in position by an annular expanded portion intermediate the ends of said tubular bushing located in said annular groove.

2,615,765
KINGPIN LUBRICATION
Walter H. Venable, Augusta, Ga.
Application May 2, 1949, Serial No. 90,927
2 Claims. (Cl. 308—120)

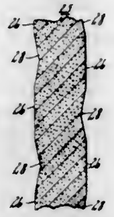
1. In a kingpin-axle assembly including a spindle and yoke, an axle, a kingpin securing the axle to the spindle and yoke, and a locking pin securing the kingpin to the axle, said yoke including upper and lower openings; bearing sleeves confined within the openings in the yoke and receiving the ends of the kingpin, tubes welded to

said yoke about and exteriorly of said openings and disposed coaxially with the kingpin, said tubes constituting extensions of said sleeves, closure caps mounted on the tubes, and grease fittings secured to the closure caps, said sleeves having internal lubricant receiving grooves, the ends of said kingpin being confined within said



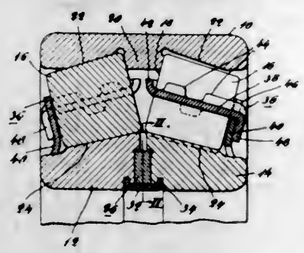
sleeves and terminating in said sleeves to permit the entire inner area defined by the tubes to be filled with a lubricant, the internal diameter of said tubes being greater than the external diameter of said sleeves to permit removal of the sleeves through the tubes.

2,615,766
BEARING SURFACE
De Loss D. Wallace, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 8, 1950, Serial No. 154,839
3 Claims. (Cl. 308—163)



3. A thrust bearing made from sintered metal powder consisting of a bearing surface of generally undulating shape wherein the metal at the high spots thereof is of a greater density than the metal at the low spots.

2,615,767
DOUBLE ROW ROLLER BEARING
August Gunnar Ferdinand Wallgren, Stockholm, Sweden
Application June 11, 1947, Serial No. 753,959
In Sweden June 14, 1946
1 Claim. (Cl. 308—214)



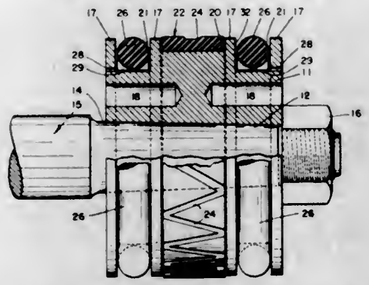
A double row roller bearing comprising inner and outer bearing ring members and rollers arranged therebetween, said rollers being tapered and having their large ends disposed in close proximity to each other and with the radially innermost portions of said large ends in slightly spaced relation, said ring members being provided with tapered raceways parallel with the surfaces of the rollers, the outer ring member having surfaces engaged by said larger ends of the rollers for limiting axial movement of the rollers toward each other and the raceways of the inner ring member limiting axial movement of the rollers away from each other, said inner ring member being centrally divided in a plane normal to the axis of the member to provide two inner rings each having thereon the inner raceway for one of the rows of rollers, a spacing member located between said rings for locating the rings axially with respect to each other, said spacing member being radially spaced inwardly of said inner raceways and the inner ends of said inner raceways and the adjacent inner ends of said rollers axially overlapping said spacing member, and means for holding said inner rings and said spacing member in axially assembled relation.

2,615,768
GRID BEARING
Alfred W. Schluchter, Dearborn, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 11, 1947, Serial No. 740,782
6 Claims. (Cl. 308—239)



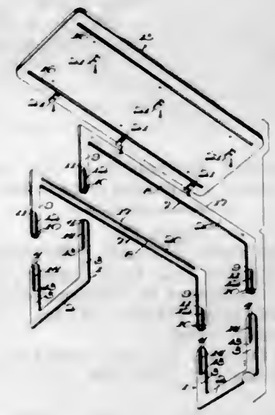
1. A grid bearing having an aluminum base matrix provided with a bearing surface comprising a multiplicity of small areas of the aluminum base matrix separated circumferentially of the bearing by a multiplicity of small pits containing areas of a corrosion resistant lead alloy thermally bonded to the aluminum base matrix, said corrosion resistant lead alloy containing a small but effective amount of an alkaline earth metal as a deoxidizer, said small but effective amount being not over ½%.

2,615,769
SLUSH PUMP PISTON
Byron H. Barnes, San Marino, and Burt S. Minor, Whittier, Calif.
Application July 19, 1947, Serial No. 762,108
13 Claims. (Cl. 309—23)



1. A piston adapted to be reciprocated in a cylinder comprising a metal body, a non-metallic annular wear ring on said body adapted to center and support said body in a cylinder, and a sealing ring on said body adapted to make sealing engagement with the cylinder, said wear ring being provided with pressure relief passages whereby pressure fluid is free to pass to opposite sides of said wear ring as the piston is reciprocated in a cylinder.

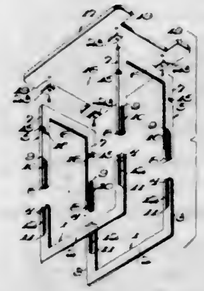
2,615,770
KNOCKDOWN TABLE
Philip C. Curtis, Scottsdale, Ariz.
Application July 10, 1951, Serial No. 235,956
2 Claims. (Cl. 311—35)



1. A knockdown table of the type described comprising the combination of a plurality of spaced upright base members, each of said base members being comprised of a floor engaging web portion and leg elements projecting upwardly from each end of said web portion, each of said leg elements in turn being provided with a plurality of upwardly projecting spaced fingers at the free ends thereof, a pair of side frames, one for each longitudinal side of the said table, each of said side frames being comprised of a web portion and leg elements projecting downwardly from each end thereof and at a transverse angle to the upwardly projecting legs of the said base members, each of said downwardly projecting leg elements also being provided with a plurality of spaced fingers at the free ends thereof which are adapted to interlock at an angle with the upwardly projecting fingers on the legs of said base members, and a table top mounted upon said side frames, said table top having a longitudinal recess on the undersurface thereof adjacent its longitudinal marginal edge, within which the top portion of a side frame is adapted to be received.

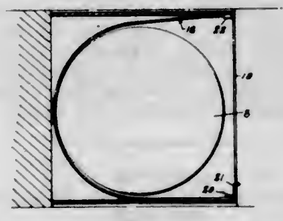
2,615,771
KNOCKDOWN TABLE
Philip C. Curtis, Scottsdale, Ariz.
Application July 10, 1951, Serial No. 235,957
2 Claims. (Cl. 311—35)

1. A knockdown table assembly of the type described comprising the combination of a pair of spaced side frames, each of said side frames having an elongated floor engaging web portion, and leg elements projecting substantially vertically upward from each extremity of said web portion, each of said leg elements having a plurality of spaced upwardly projected fingers at the free ends thereof, a pair of end members, each of said end members having a web portion and downwardly projecting leg elements at each extremity thereof and each of said downwardly projecting leg elements having a plurality of spaced downwardly projected fingers at the free ends thereof, said last-mentioned fingers being disposed transversely to said upwardly projecting fingers on the leg elements of the side frames, whereby said downwardly projecting fingers are adapted to interlockingly engage said upwardly projecting fingers, when the end members are mounted on said side frames, each of said legs



on said end frames also having a horizontal slot on its outer marginal edge intermediate the ends thereof, and a table top comprised of a thick web portion and an outwardly projecting arm at each corner thereof, whereby the top is adapted to interlockingly engage the legs on said end members below the webs thereof and in spaced relationship thereto when portions of the arms of the table top immediately adjacent the web portion thereon are inserted in the horizontal slots on the leg elements of said end members.

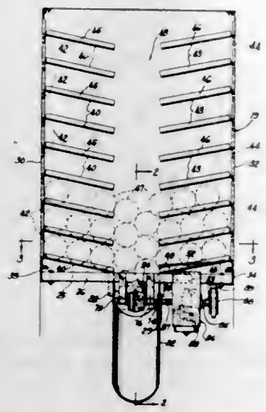
2,615,772
CASE WITH HEAT-RESISTANT RETRACTOR AND CLOSURE BELT
John G. Bradley, Washington, D. C.
Application April 22, 1949, Serial No. 89,071
3 Claims. (Cl. 312—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The combination with a housing having a pair of shelves therein, of a belt secured by one end only at one side of the housing between the shelves and adapted to have its intermediate portions extending behind an object on the lower shelf with the other end and adjacent portions of the belt projecting forward at the opposite side of the housing and adapted to extend across the front of the shelves for enclosing said object, forward pulling of the free end of the belt effecting outward movement of the object enclosed by the belt, a belt guide in the forward part of the hous-

ing, and means on the housing substantially opposite said guide for releasably securing the free end of the belt in said enclosing position.

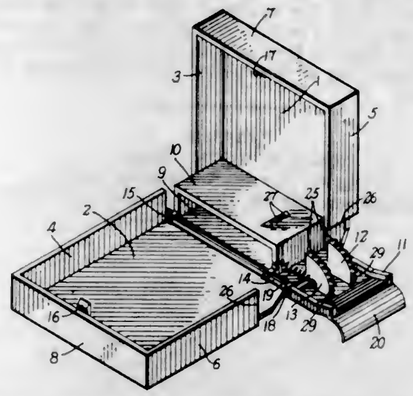
2,615,773
VENDING MACHINE FOR CYLINDRICAL ARTICLES
Marcus L. Holt, Lookout Mountain, Tenn., and John B. Brock, Adairsville, Ga.
Application June 26, 1948, Serial No. 35,414
4 Claims. (Cl. 312—48)



3. In a vending machine for packaged articles, the combination comprising two article-retaining elements having portions movable laterally at the lower end of a channel through which said articles freely gravitate in a double row column with the articles of one row laterally overlapping and vertically staggered with respect to the articles of the other row, each element having a path of movement extending across the lateral mid-plane of the channel, the said paths of movement of said movable portions of the article-retaining elements being spaced vertically of the channel so that each is independently movable relative to the other, said movable portions of the article-retaining elements each normally extending to one side of said mid-plane of the channel so as to underlie the lowermost article of one of the rows, single cam means drivingly connected to said article-retaining elements to effect movements of said article-retaining elements across said mid-plane of the channel in reverse directions and in timed sequence to one another to release the lowermost article of the column and to retain and lower the others, and means for driving the cam.

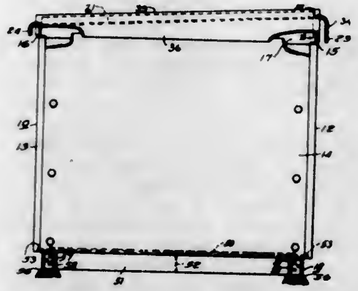
2,615,774
ARTICLE CONTAINER AND DISPENSING DEVICE
William C. Van Clief, Jr., Ridgewood, N. J.
Application January 31, 1950, Serial No. 141,418
8 Claims. (Cl. 312—63)

1. In combination, a boxlike container having rectangularly disposed front and bottom walls, means for supporting a stack of flat articles above said bottom wall, an opening in said front wall adjacent the bottom thereof, a door pivotally mounted at the bottom of said opening to swing outwardly away from said opening, means cooperative with said door and the lowermost of said stacked articles to seize and eject said article upon an opening movement being imparted to said door, and means on the upper surface of said article-supporting means to obstruct and



prevent rearward movement of the bottom article of said stack while said door is being closed.

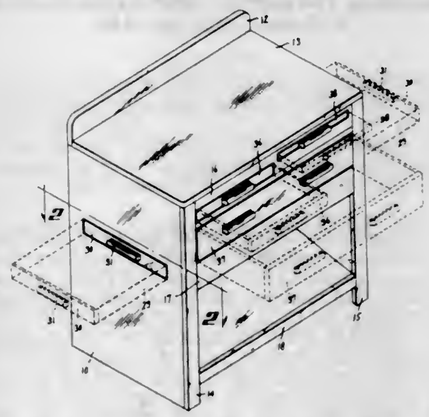
2,615,775
OUTDOOR METAL-CLAD SWITCHGEAR
Glen L. Claybourn and Paul Kocsis, Jr., Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1947, Serial No. 783,170
5 Claims. (Cl. 312—107)



1. A metal-enclosed switchgear housing unit comprising, a unitary rectangular base of formed metal side and cross members welded together, an upright Z member welded to said base at each corner thereof, each Z member having substantially parallel flanges, a side sheet removably attached to the upright members at one side of the base, another side sheet secured to the upright members at the opposite side of the base, a trim strip attached to each upright member and having a folded-back portion disposed in alinement with the side sheet on the upright member and spaced from one of the flanges of the upright member, a hinged door at the front and the rear of the unit, flanges on each door disposed in the space between the flanges of the upright Z members and their associated trim strip, and a metal roof supported by the upright members.

2,615,776
ARTICLE OF FURNITURE
Edward C. Lorentzen, Keokuk, Iowa
Application April 10, 1950, Serial No. 154,922
2 Claims. (Cl. 312—239)

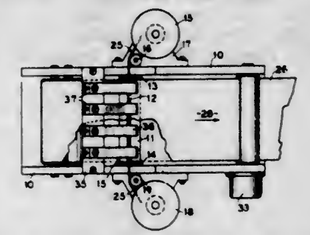
1. In an article of furniture, a frame having two vertical spaced apart sides, a vertical back secured to corresponding ends of said sides, a flat top secured to the top edges of said sides and back and an open front, a pair of horizontal panel members disposed in close vertical spaced relationship extending across the upper portion of said open front and secured to said frame sides, a third panel member similarly arranged across the lower portion of said open front, a plurality of drawers suitably slidably mounted in the upper portion of said frame, a flat leaf member similarly mounted as said drawers, a shelf member mounted within the lower portion of said frame so that its forwardly edge is lower than its rearwardly edge, a pair of like parallel vertically spaced apart guide panels extending between said back and the lower front panel of said first mentioned panels and secured thereto at a point midway between said sides, an elongated guide bar extending transversely between said guide panels at their longitudinal center and having its respective ends secured to said frame sides, a pair of like guide members arranged transversely between said guide panels and respectively secured



therein on opposite sides and spaced from said guide bar, a pair of like pull-out leaves, each comprising, a flat supporting surface, side members and an upright front member provided with a hand grip, an elongated guide and support bar extending perpendicularly from the inside of said front member on said pull-out leaf along the underside of said leaf and outwardly therefrom and secured thereon; said pull-out leaves constructed and arranged to be oppositely disposed on said frame sides and slidable through suitable openings therein in such a manner that each of said elongated guide and support bars is slidable on opposite sides of said elongated guide bar between said bar and said respective guide members so that said guide members and elongated guide bar limit the lateral movement of said elongated guide and support bars and said guide panels limit the vertical movement thereof, and stop members on each free end of each elongated guide and support bar to limit their horizontal movement in one direction.

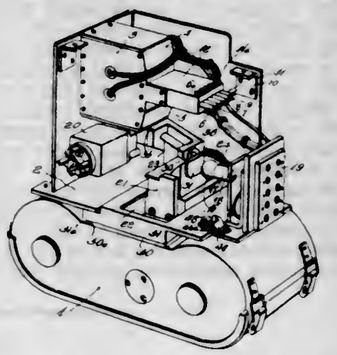
2,615,777
ELECTROLYTIC RECORDER WITH SELF-RENEWING ELECTRODE
Albert F. Deuth, Hartsdale, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware
Application August 27, 1949, Serial No. 112,675
6 Claims. (Cl. 346—74)

1. A recorder for use with an electro-responsive recording medium, comprising: a linear flexible electrode and means including reels engaging the ends of said electrode for continuously moving the electrode in one direction along its length,



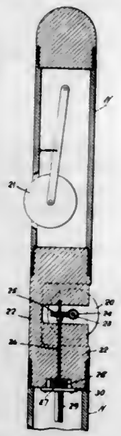
means for drawing the recording medium substantially at right angles across and in contact with the linear electrode, and a second electrode disposed to contact the other side of the recording medium.

2,615,778
MEANS FOR MULTIPLE RECORDING ON FILM
Arthur Nelson Butz, Jr., deceased, late of State College, Pa., by Arthur N. Butz, executor, Maplewood, N. J., assignor, by mesne assignments, to Pennsylvania Research Corporation, a corporation of Pennsylvania
Application July 16, 1948, Serial No. 39,035
4 Claims. (Cl. 346—109)



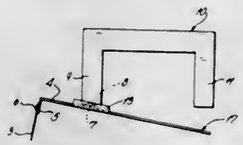
1. A photographic recording apparatus comprising a film casing having an exposure aperture in one side thereof, a film reel system mounted for rotative movement within said film casing and driven by gear means adjacent one side thereof, a film driven by said film reel system, an oscillograph casing terminating in a centrally offset wall at one side thereof including a light aperture and a transversely extending undercut rail, a plate carried by said film casing surrounding the exposure aperture therein and terminating in a chamfered edge portion operative to engage the transversely extending rail formed in said offset wall and adapted to be oriented toward said oscillograph casing for aligning said light exposure aperture in said film casing with the light aperture in said wall, and means adjacent the end of said film casing remote from the undercut rail of said wall detachably connecting said film casing with said oscillograph casing, said film casing being orientable about said undercut rail as a fulcrum in establishing connection or disconnection with said oscillograph casing and means within said oscillograph casing engaging the gear means in said film casing for driving the film reel system when said film casing is engaged with said oscillograph casing.

2,615,779
DRIVING AND RECORDING MECHANISM FOR CALIPERING DEVICES
Preston E. Chaney and William E. Barnes, Beaumont, Tex., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application October 26, 1945, Serial No. 624,813
1 Claim. (Cl. 346—132)



In an internal tube wall calipering and recording device adapted to be passaged through an extended length of tubing and comprising an elongated housing carrying recording means including a recorder member and a stylus member positioned in scribing relation therewith, and driving means for said recording means, the improvement which comprises a drive member carried by said housing and arranged for continuous rotating frictional contact with the tube wall during passage of the device through the tubing, mechanical transmission means including a driving shaft operable by rotation of said drive member in either direction and a driven shaft adapted to effect relative movement of said recorder and stylus members when the device is passaged through the tubing in a calipering direction, one of said shafts being longitudinally fluted, an overload release mechanism connecting said shafts and comprising a collar secured to the other of said shafts and extending around a fluted portion of said one shaft and a spring pressed pin carried by said collar and adapted to enter the flutes to effect driving engagement between said shafts, and unidirectional latch means located between the overload release connection and said recording means for preventing the driving of said driven shaft when the device is passaged in a non-calipering direction.

2,615,780
STYLUS ASSEMBLY FOR FACSIMILE MACHINES
Austin G. Cooley, New York, N. Y., assignor to Times Facsimile Corporation, New York, N. Y., a corporation of New York
Application February 11, 1949, Serial No. 75,793
4 Claims. (Cl. 346—139)



1. A stylus arrangement for facsimile machines, comprising, a member mounted for rocking movement, a stylus arm having one end fitted into said member, said member having a groove extending transversely to said stylus arm and said stylus arm having a notch in registry with said groove, and a locking member located in said groove and notch to lock said arm to said member for unitary rocking movement with said member, said arm being mounted in said member for rotation in a direction at right angles to said rocking movement to facilitate insertion and removal of the stylus.

CHEMICAL

2,615,781
METHOD OF DYEING CELLULOSE ACETATE FIBERS IN A MIXED ACETATE-NYLON FABRIC USING AN AQUEOUS SOLUTION OF AN ACID DYE, ETHYL ALCOHOL, ACETIC ACID, AND EITHER SODIUM OR AMMONIUM THIOCYANATE
Henry Charles Olpin and Dora Louise Bell, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application February 10, 1949, Serial No. 75,743. In Great Britain February 26, 1948
1 Claim. (Cl. 8—24)

Process for the coloration of textile material comprising both cellulose acetate fibers and fibers of a superpolyamide so as to color the former but leave the latter substantially uncolored, which comprises subjecting the material at ordinary temperatures to the action of a solution of an acid dye in aqueous ethyl alcohol of 55–75% strength by weight, said aqueous alcohol containing from 1–5% of acetic acid and from 1–5% of a compound selected from the group consisting of sodium and ammonium thiocyanates.

2,615,782
MODIFICATION OF KERATIN
John W. Haefele, Cincinnati, Ohio, assignor to The Procter & Gamble Company, Ivorydale, Ohio, a corporation of Ohio
No Drawing. Application August 11, 1950, Serial No. 178,981
19 Claims. (Cl. 8—128)

1. In the process of treating keratin-containing substance to modify chemical and physical characteristics thereof, wherein the said substance is subjected to the action of a sulfur-containing reducing agent and disulfide linkages of keratin are converted to sulfhydryl groups, the separate step of reacting the previously reduced keratin at a pH from about 4 to about 10.5 with an aqueous solution of at least one organic thiosulfate of the group consisting of alkyl, alkenyl and substituted alkyl and alkenyl thiosulfuric acids and water-soluble salts of same to convert reduced keratin to disulfide containing the organic group of said organic thiosulfate.

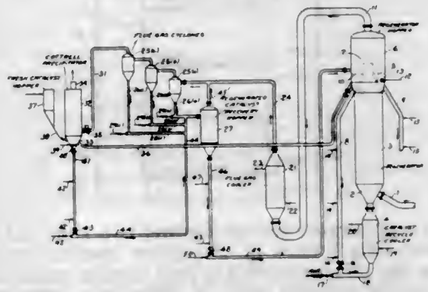
2,615,783
MODIFICATION OF KERATIN
John W. Haefele, Cincinnati, and Nathaniel Beverley Tucker, Glendale, Ohio, assignors to The Procter & Gamble Company, Ivorydale, Ohio, a corporation of Ohio
No Drawing. Application August 11, 1950, Serial No. 178,982
18 Claims. (Cl. 8—128)

1. In the process of treating keratin-containing substance to modify chemical and physical characteristics thereof wherein the said substance is subjected to the action of a sulfur-containing reducing agent and the disulfide linkages of keratin are converted to sulfhydryl groups, the step of reacting reduced keratin at a pH of about 4 to about 10.5 with an aqueous solution of at least one organic polythiosulfate of the group consisting of water-soluble polythiosulfates of alkanes and alkenes and substituted alkanes and alkenes to convert reduced keratin to polydisulfide containing the organic group of said organic polythiosulfate.

2,615,784
POLYETHYLENE TEREPHTHALATE MONOFILS DRAWN AND HEAT SET FOR USE AS BRISTLES
William Robert McClellan, Kennett Square, Pa., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 20, 1949, Serial No. 134,121
2 Claims. (Cl. 8—130.1)

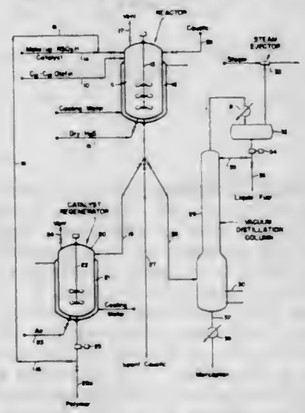
1. Process of improving a monofil spun from polyethylene terephthalate, for use as bristle material, which process comprises drawing said monofil at 55° C. to 180° C. to a total draw of 4.6:1 to 5.2:1 based upon the length of said monofil before drawing, heating said drawn monofil in a relaxed condition until it shrinks 5% to 10% of its original drawn length, and thereafter heating said monofil to 150° C. to 250° C. while held under tension to prevent shrinkage.

2,615,785
METHOD FOR RECOVERY OF POWDERED CATALYST
Joseph W. Jewell, Summit, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application March 23, 1950, Serial No. 151,401
5 Claims. (Cl. 23—1)



1. In a catalytic conversion system of the type wherein a gas is passed upwardly through a contacting zone and is contacted in said zone with a mass of catalyst in a dense turbulent suspended phase, an improved process for withdrawing effluent gases from said contacting zone and recovering entrained catalyst from said withdrawn gases, which method includes the steps of: withdrawing effluent gases and suspended solids substantially vertically upward through a restricted opening above said dense contacting phase and discharging said upflowing suspension into an enlarged settling zone located in superimposed position above said contacting zone to reduce the upward velocity of said suspension and to precipitate relatively coarse catalyst into a settled dense phase in the lower portion of said enlarged settling zone; withdrawing gases and residual fines from said settling zone and cooling them; passing the cooled gases and residual fines through a separating zone for separating relatively fine catalyst; and mixing coarse catalyst with said separated fines near the point of separation of said fines to form a readily fluidizable mixture and to reheat said relatively fine catalyst prior to flowing it from said point of separation back into said conversion system.

2,615,786
HIGH BOILING MERCAPTAN PRODUCTION
Wayne A. Proell, Chicago, Ill., and William F. Wolff, Whiting, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application August 28, 1948, Serial No. 46,664
13 Claims. (Cl. 23—2)

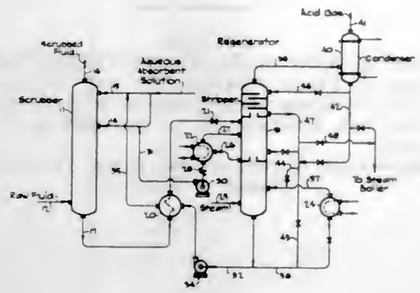


1. The method of making mercaptans having about 12 to 18 carbon atoms per molecule which method comprises intimately mixing a liquid hydrocarbon charging stock containing substantial amounts of C_{12}–C_{18} tertiary olefins with a catalytic amount of liquid alkanesulfonic acid catalyst and introducing H_2S into the liquid phase mixture at a temperature in the range of about 0° C. to about 60° C.

2,615,787
PURIFICATION AND SEPARATION OF GASEOUS MIXTURES
Herbert E. Randlett, Oakland, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application August 27, 1949, Serial No. 112,823
9 Claims. (Cl. 23—2)

1. In the process of purifying a water-immiscible fluid of H_2S and analogous acidic impurities wherein a portion of the fluid containing H_2S and analogous impurities is scrubbed with an aqueous solution of an alkaline absorbent for the acidic impurities and capable of activation by contact with a stripping medium, to produce a fat solution containing said impurities, the fat solution

is regenerated for reuse as a scrubbing solution by contacting it with a stripping medium in an upright regeneration zone under conditions to strip the acidic impurities from the solution and to remove with said impurities a portion of the solution-water as vapor, whereby a lean absorbent solution of increased alkaline concentration is produced in the direction of flow of the solution in the regeneration zone and a vaporous stream comprising impurities and a portion of the solution-water is withdrawn from the regeneration zone, the withdrawn vaporous stream is partially condensed to yield a liquid aqueous phase condensate, the stripped lean absorbent solution of increased alkaline concentration is admixed with at least a portion of the condensate produced by the partial condensation of said withdrawn va-



porous stream in proportions to restore the absorbent solution to its alkaline concentration when previously used as absorbent scrubbing solution and the regenerated and reconstituted absorbent solution is utilized as scrubbing solution for the removal of impurities from a further portion of the fluid containing impurities, the improvement which comprises adding the portion of the condensate, produced by the partial condensation of the withdrawn vaporous stream, to the absorbent solution of increased alkaline concentration to restore it to the desired and initial concentration thereof while said solution is in a low section of the regenerating zone and therein stripping from the resulting solution a substantial proportion of the acidic impurities contained in said condensate.

2,615,788

PURIFICATION OF BOROHYDRIDES OF THE ALKALI METALS

Thomas R. P. Gibb, Jr., Marblehead, Mass., assignor to Metal Hydrides Incorporated, Beverly, Mass., a corporation of Massachusetts

No Drawing. Application November 14, 1949, Serial No. 127,239

4 Claims. (Cl. 23—14)

1. In a method for purifying an alkali metal borohydride produced by the reaction of an alkyl borate with an alkali metal hydride, the steps which comprise bringing diborane in contact with the borohydride produced by said reaction to react with the impurities therein and obtain a substantially pure alkali metal borohydride containing a low boiling reaction product, and removing the low boiling reaction product.

2,615,789

IRON-FREE TITANIUM ARSENATE AND PROCESS FOR MAKING SAME

Wilmer O. Davis, Reuben Roseman, and Benjamin W. Allan, Baltimore, and Ralph W. Neptune, Dundalk, Md., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application August 18, 1948, Serial No. 44,984

7 Claims. (Cl. 23—53)

1. A new composition of matter consisting essentially of titanium, arsenic and oxygen in chemical combination, wherein the titanium is in the quadrivalent state and wherein the arsenic is in the pentavalent condition, said composition having a molar ratio of essentially 3 to 1 between its titanium dioxide content and its arsenic pentoxide content, and being characterized also by exhibiting a water-soluble arsenic content below about 0.5% when calculated as As_2O_5.

2,615,790

WITHDRAWN

2,615,791

SEPARATION OF HYDROGEN HALIDES FROM OLEFINICALLY UNSATURATED COMPOUNDS

John H. Raley, Walnut Creek, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application November 25, 1949, Serial No. 129,507

7 Claims. (Cl. 23—154)

1. In a method for separating the hydrogen halide and the olefinically unsaturated organic components of a liquid mixture by fractionation, the improvement comprising effecting said fractionation in the presence of at least one compound selected from the group consisting of nitriles and isonitriles which is dissolved in the said liquid mixture.

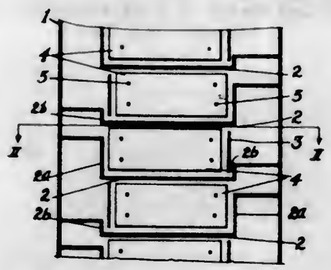
2,615,792

APPARATUS FOR SEPARATING TWO-PHASE MIXTURES

George J. Bacsik, Bayonne, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application August 13, 1948, Serial No. 43,998

1 Claim. (Cl. 23—270.5)



An apparatus for contacting two substantially immiscible liquids of dissimilar specific gravity, as a two phase mixture of said liquids, comprising a hollow vertical shell, a plurality of vertically spaced transverse partition members interiorly of said shell, of which each pair of partition members with the shell defines a lateral series of contiguous substantially confluent mixing, separation and discharge zones in succession, said series having common upper and lower wall portions provided by said plate members, and in which series said mixing and discharge zones are disposed in opposed relation diametrically of said vessel, with the mixing zone of any one series coinciding vertically with and disposed intermediate adjacent discharge zones of the series above and below, means for introducing the heavier liquid of said two phase mixture downwardly into each of said mixing zones from a discharge zone immediately above it and the lighter liquid of said two phase mixture upwardly into said mixing zone from a discharge zone immediately below it, a plurality of plate elements preferentially wettable by one of said liquids to be contacted, suspended vertically in each separating zone in closely spaced parallel relation one to another and extending through said separation zone between the opposed mixing and discharge zones in the same series and having upper and lower and end edge portions terminating in spaced relation to the partition members above and below the zones in said series, and to the discharge and mixing zones thereof respectively, said plates defining a plurality of narrow vertical parallel passageways within said separation zone which are confluent at the upper, lower, and end edge portions of said plate members, separate means for introducing said heavier liquid into the shell above the uppermost partition member and for removing said heavier liquid below the lowermost partition member, and separate means for introducing the lighter liquid into the shell below the lowermost partition member and for removing said liquid from above the uppermost partition member.

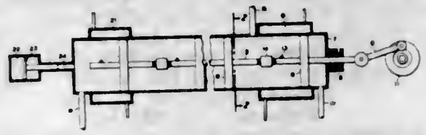
2,615,793

CRYSTALLIZATION APPARATUS

John A. Weedman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application August 22, 1949, Serial No. 111,618

10 Claims. (Cl. 23—273)



1. A fractional crystallization apparatus which comprises, in combination, an elongated enclosed container, a product outlet adjacent each end of said container and a feed inlet intermediate said ends, means for adding heat to said container adjacent one end thereof, means for abstracting heat from said container along a portion thereof between said feed inlet and the unheated end, and means for moving solid granular material through said container from the cooled to the heated end which comprises a reciprocating rod extending axially into said container, a plurality of foldable pistons comprising foraminate members hinged at spaced intervals to said rod, said foldable pistons being adapted to close on the intake stroke and open on the pump stroke of said piston.

2,615,794

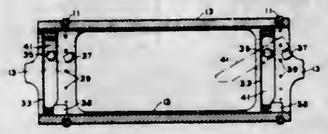
CRYSTALLIZATION APPARATUS

Anthony O. Shelby, Houston, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 26, 1950, Serial No. 170,357

8 Claims. (Cl. 23—273)

1. Fractional crystallization apparatus which comprises, in combination, a horizontally disposed, cylindrical, elongated, enclosed container, a product outlet adjacent each end of said container and a feed inlet intermediate said ends, means for adding heat to said container adjacent one end thereof, means for abstracting heat from said container along a portion thereof between said feed inlet and an unheated end, and means for moving solid granular material through said container from a cooled to a heated end which comprises, a reciprocating rod extending axially into said container, a plurality of reciprocating perforated pistons transversely positioned at spaced intervals within said container, an end one of said perforated pistons being rigidly attached at its outer end to said reciprocating rod, each of said perforated pistons comprising, a cylindrical housing, a piston ring around said cylindrical housing and recessed therein adapted to engage the inner wall of said container, a plurality of holes through each of said cylindrical housings under said rings, a pair of diametrically opposite, connecting members rigidly connecting each of said cylindrical hous-



ings to adjacent cylindrical housings at the ends thereof, each of said pair of connecting members being disposed 90 degrees from each adjacent pair of said members, a perforated, circular disk valve within each of said cylindrical housings, each of said valves being rigidly attached in their upper portions to a horizontally disposed rod which is pivotally attached to said cylindrical housings, said valves being adapted to assume a transverse position and close the openings in said cylindrical housings on a forward stroke and to open the openings in said cylindrical housings on a return stroke of said pistons, a first stop rigidly attached to the inner wall of each of said cylindrical housings adapted to maintain said valves in said transverse position on a forward stroke of said pistons, a second stop rigidly attached to the inner wall of each of said cylindrical housings adapted to stop movement of said valves at an angle less than 90 degrees from said transverse position on a return stroke of said pistons, and actuating means connected to said reciprocating rod.

2,615,795

CATALYTIC GAS GENERATOR

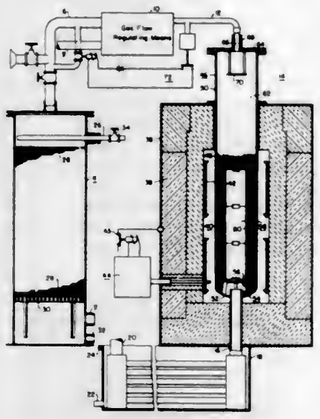
Clarence E. Peck, Cambridge Springs, and John G. Hoop, Meadville, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 23, 1949, Serial No. 106,406

2 Claims. (Cl. 23—281)

1. A single broad-range gas-generating apparatus in which air and fuel gas can be catalytically reacted in ratios ranging from rich gas-mixtures having endothermically reacting low ratios of air to fuel gas, to lean gas-mixtures having exothermically reacting high ratios of air to fuel gas, to produce a widely variable controlled special gaseous product, said apparatus comprising, in combination, a thermally insulating outer casing and wall means defining a heating chamber, a separately regulatable heating means for said chamber, a retort having inlet

and outlet means, a gas-outlet pipe-line from said outlet means of the retort, a velocity-type burner-pipe leading into said inlet means of the retort, a pipe line for supplying the above-described broadly variable mixture of air and fuel gas to said burner-pipe, and regulating means for controlling the ratio of air to fuel gas; said retort having a reaction-portion including said outlet means and disposed within said heating



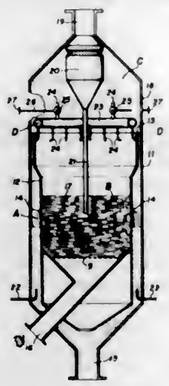
chamber in good heat-exchange relation thereto, and being adapted to contain a catalyst within said reaction-portion of the retort for promoting the reaction of fuel gas and air; and said retort having a combustion-chamber portion disposed in poor heat-exchange relation to said heating chamber and providing a relatively unheated and relatively unobstructed combustion-chamber between said inlet means and said reaction-portion of said retort.

2,615,796

VESSEL FOR FLUID CATALYST REACTION WITH MEANS FOR VARYING HEIGHT OF THE DENSE PHASE

Nick P. Peet, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application February 17, 1951, Serial No. 211,538
3 Claims. (Cl. 23—288)



1. An apparatus adapted for contacting finely divided solids with gases, said apparatus comprising in combination, wall members bounding and enclosing an annular space consisting of an impermeable vertical, cylindrical, outer wall member, an impermeable inner wall member placed within said outer wall member concentrically therewith, said inner wall member having at least one port opening in its wall to allow the passage of solids from the interior of inner wall member into said annular space, and an impermeable annular wall member with its outer edge secured to said outer wall member and its inner edge secured to said inner wall member, said walls thereby defining an annular stripping section and a central reaction section, a cylindrical extension member having its lower edge secured to one of said wall members and extending upwardly above the wall members, a conduit structure provided with valve means arranged to vary the effective flow area thereof having one end secured to one of said wall members and opening into said annular space near the top thereof and its other end discharging into the interior of said extension member whereby the regulation of the effective flow area is effective to control the differential pressure between the annular space and the interior of the extension member when a fluidized bed is present within the central reaction section, first conduit means connected to the lower end of said inner wall member for introducing solid particles and gaseous reactants into the interior of said inner wall member from a point outside said outer wall member, second conduit means connected to the lower end of the outer wall member for removing solid particles from the lower end of said annular space, and a third conduit connected to the upper end of said extension member for removing gases from the interior thereof.

2,615,797

METHOD OF GROWING PIEZOELECTRIC CRYSTALS

Marie Bruzau, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application July 23, 1947, Serial No. 763,164. In France July 31, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 31, 1965
3 Claims. (Cl. 23—302)

1. Process for manufacturing abnormally large crystals suitable for optical and piezoelectric uses, that comprises regulating growth of said crystals from a germ crystal of potassium phosphate in a super saturated solution of the acid salt of potassium phosphate, also containing in a dissolved state, the borate of the same metal.

2,615,798

EXTRACTION OF CERIUM WITH AN ORGANIC SOLVENT

Edgar C. Pitzer, Schenectady, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

No Drawing. Application March 6, 1951, Serial No. 214,204
12 Claims. (Cl. 23—312)

1. A process for the separation of cerium values from an aqueous solution containing cerium nitrate in a tracer concentration, comprising incorporating an alkali metal dichromate to obtain a concentration of from 0.0004 to 0.01 M, contacting the resultant aqueous solution with a substantially water-immiscible aliphatic ketone, and separating an aqueous phase and a ketone extract phase containing cerium values.

2,615,799

DIESEL FUEL

Edward J. Martin, Homewood, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 3, 1948, Serial No. 18,859
2 Claims. (Cl. 44—57)

1. A diesel fuel containing from about 0.005% to about 2% of a pour depressor of a viscous, oil-soluble polymerization product of esters of alpha methacrylic acid and monohydric aliphatic saturated alcohols which are predominantly lauryl alcohols, and from about 0.005% to about 1.5% of an extraneous hydrocarbon wax selected from the group consisting of amorphous and crystalline waxes, and having a cetane value at least equivalent to that of the diesel fuel free of additives.

2,615,800

COATED GRANULAR EXPLOSIVE COMPOSITION

Charles D. Goodale, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application April 27, 1948, Serial No. 23,622
2 Claims. (Cl. 52—11)

1. A hydroscopic, water-soluble explosive in granular form coated with a mixture comprising at least about 0.1% by weight of 2,2-dinitropropane based on the weight of said explosive and from about 5 to 30% of a high-boiling, relatively non-volatile liquid, based on the weight of said 2,2-dinitropropane, said liquid being inert to and compatible with said 2,2-dinitropropane.

2,615,801

ANTISPROUTING METHODS AND COMPOSITIONS

William Brown, London, and Harold Clark Mellor, Hatch End, England, assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application January 17, 1951, Serial No. 206,524. In Great Britain March 18, 1947
3 Claims. (Cl. 71—2.3)

3. A pulverulent antisprouting composition comprising as the active ingredient from 1 to 20 percent by weight of 2,3,5,6-tetrachloronitrobenzene in combination with an inert pulverulent diluent.

2,615,802

HERBICIDAL COMPOSITION AND METHOD

Harold E. Bruner, Akron, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application October 23, 1948, Serial No. 56,249
15 Claims. (Cl. 71—2.7)

1. The method of destroying noxious vegetation which comprises uniformly applying to the foliage thereof a lethal concentration of a herbicidal composition containing as the essential active ingredient a member of the group of compounds of the general formula

$$RO-\overset{\overset{S}{\|}}{C}-S_x-\overset{\overset{S}{\|}}{C}-OR$$

where x is a whole number greater than one but less than five and where R is a member of the group consisting of alkyl and substituted alkyl radicals.

2,615,803

HERBICIDAL OIL SOLUTIONS OF SODIUM TRICHLOROACETATE

Howard L. Yowell, Westfield, John F. McKay, Jr., Cranford, and Leo Z. Jasion, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 22, 1950, Serial No. 202,414
8 Claims. (Cl. 71—2.7)

3. A herbicidal composition comprising a stable homogeneous solution of sodium trichloroacetate in an amount of 6.7 to 16.65 weight per cent; 32.7 to 69 weight per cent of an aromatic petroleum oil boiling in the range of 325°–600° F. and having a minimum aromatic content of 35 weight per cent; 9.76 to 18.55 weight per cent of an oil-soluble emulsifying agent; 4.65 to 9.3 per cent of a water-soluble emulsifying agent; and 6.9 to 34.7 weight per cent water.

2,615,804

HERBICIDAL COMPOSITION

William D. Stewart and John H. Standen, Yonkers, N. Y., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 8, 1947, Serial No. 746,862
4 Claims. (Cl. 71—2.7)

1. A method of killing plant life which comprises uniformly applying to the foliage of living plants a composition containing as the essential active ingredient from about 0.05% to about 5% by weight of bis-isopropylxanthogen having the formula:

$$(CH_3)_2-CH-O-\overset{\overset{S}{\|}}{C}-(S)_2-\overset{\overset{S}{\|}}{C}-O-CH-(CH_3)_2$$

2,615,805

MANUFACTURE OF LEAD

Leonard F. Taylor, South Darley, near Matlock, and Patrick W. Wright, Holloway, near Matlock, England, assignors to H. J. Enthoven & Sons Limited, London, England, a British company

No Drawing. Application April 17, 1950, Serial No. 156,488. In Great Britain May 11, 1948
1 Claim. (Cl. 75—166)

Lead containing from 0.01 to 0.06 per cent by weight of antimony together with nickel ranging from 0.01 to 0.03 per cent by weight, the remainder being lead, the nickel serving to obviate the adverse effect of the antimony in lowering the flash-point of the lead.

2,615,806

METHOD OF MAKING RIGID TYPE FELTED MINERAL WOOL PRODUCT

Frank L. Marsh, Carl J. Koehler, and Willard L. Chrisler, Kenmore, N. Y., assignors to National Gypsum Company, Buffalo, N. Y., a corporation of Delaware

No Drawing. Application April 12, 1947, Serial No. 740,992
4 Claims. (Cl. 92—21)

1. The method which comprises providing a slurry by thoroughly mixing about 15 parts of comminuted asphalt having a melting point falling within the range of from 200° to 250° F., about 15 parts of fibrous binder material, about 1500 parts of water and from 0.1 to 1 part of a dispersing agent for the comminuted asphalt, thoroughly but gently mixing into the slurry about

70 parts of mineral wool fibers to distribute the comminuted asphalt and fibrous binder material substantially uniformly throughout the mineral wool fibers, molding the last mentioned mixture into a body, rapidly withdrawing the free water from the body by suction before the various solid components thereof have an opportunity to stratify into layers thereby to provide a loosely felted and intersticed homogeneous mass, and thereafter heating the mass at a temperature sufficient to evaporate the residual water therein and to fuse the asphalt thereby to provide upon cooling a rigid and lightweight composition in which the mineral wool fibers are bonded together and to the fibrous binder material by the asphalt.

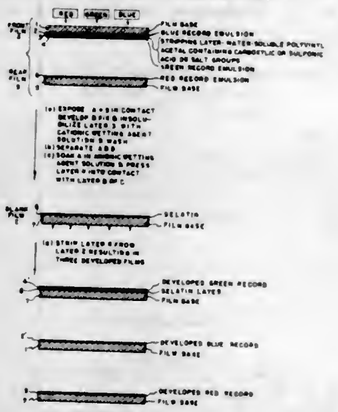
2,615,807

STRIPPING FILM AND METHOD OF STRIPPING

Jacob Quentin Umberger, Holmdel, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application February 11, 1949, Serial No. 75,977

5 Claims. (Cl. 95—2)



1. A process for modifying the solubility characteristics of the stripping layer of a photographic element, said layer consisting of a water-soluble macromolecular acetal of a hydroxy polymer having a plurality of recurring intralinear

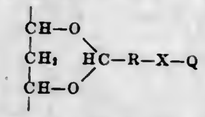
$$-CH_2-CHOH-$$

groups as polymer-forming units with an aldehyde containing a solubilizing group taken from the class consisting of —COOZ and —SO_3Z, where Z is a member taken from the group consisting of hydrogen and a cation which forms water-soluble salts, which aldehyde has hydrogen atoms only attached to the remaining carbon atoms, said acetal layer being disposed between two light-sensitive gelatin silver halide emulsion layers, one of which is anchored to a film support, which involves exposing, developing and fixing steps and prior to extensive washing, reducing the solubility of said acetal by treating said acetal layer with an aqueous solution containing a water-soluble cationic surface-active wetting agent containing a hydrocarbon radical of 8 to 20 carbon atoms washing the element, increasing the solubility of the resulting acetal layer by treating it with an aqueous solution containing an anionic surface-active wetting agent having a pH of 1 to 6, and stripping the outer emulsion layer from the other emulsion layer.

4. A photographic element comprising a film base having superimposed on one surface two light-sensitive silver halide emulsion layers which are separated by a stripping layer consisting essentially of an insoluble macromolecular acetal of a hydroxyl polymer having a plurality of recurring intralinear

$$-CH_2-CHOH$$

groups as polymer-forming units and a plurality of intralinear groups of the formula:



where R is a divalent hydrocarbon radical, X is a member taken from the group consisting of —COO— and —SO_3— and Q is a radical corresponding to the cation in a cationic surface-active wetting agent containing an aliphatic hydrocarbon radical of 8 to 20 carbon atoms.

2,615,808

PREPARATION OF COTTONSEED MEAL

James V. Rice, Cincinnati, Ohio, assignor to Buckeye Cotton Oil Company, Memphis, Tenn., a corporation of Ohio

No Drawing. Application October 17, 1949, Serial No. 121,897

11 Claims. (Cl. 99—2)

1. A process for the detoxification of solvent extracted cottonseed flakes containing intact glands comprising free gossypol, which comprises intimately contacting said flakes with a completely water-soluble aliphatic solvent, having at normal atmospheric pressure a boiling point not substantially higher than 220° F., for at least 2 minutes and until substantially all gossypol has been liberated from the glands and is diffused throughout the flakes, and distilling substantially all solvent from the mixture at a temperature in excess of 140° F. but insufficient to effect substantial heat denaturing of protein, whereby substantially all solvent is removed from the mixture in the vapor phase without substantial removal of gossypol and whereby substantially all gossypol is converted to non-toxic form.

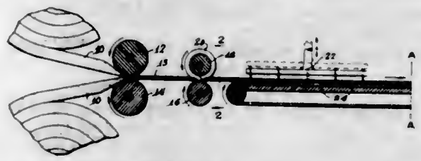
2,615,809

COOKED TUBULAR ALIMENTARY COMPOSITION

Paul E. Jean, Montreal, Quebec, Canada, assignor to Cereal Food Products Company, Quebec City, Quebec, Canada

Application December 7, 1949, Serial No. 131,603

1 Claim. (Cl. 99—85)



A process for the preparation of a cooked tubular alimentary paste product, comprising, preparing an alimentary paste dough containing from about 27% to about 33% water based on the total weight of the dough, forming the dough into elongated sheets, then continuously juxtaposing two such sheets and pressing them together by feeding them through press rolls whereby air is expressed from between the sheets and the sheets are thinned and laminated to form a composite sheet of two laminae of substantially even total thickness within the range from about 1/64 of an inch to about 1/8 of an inch, and then while feeding the composite sheet forward subjecting it to press-roll pressure and at laterally spaced-apart intervals to a shearing action along its length whereby the sheet is progressively divided lengthwise into a plurality of strips arranged side by side and whereby marginal proximate portions of the respective laminae of the strips are pinched together and thus caused to cohere lengthwise of the strips, and intermittently subjecting the plurality of strips simultaneously to a shearing action transversely of the sheet to separate lengths from the strips and to pinch proximate marginal portions of the ends of the respective laminae in each length together to cause their cohesion whereby elongated units are formed made up of two laminae joined together completely around their edges and containing substantially no entrapped air, and cooking said units in edible fat thereby causing the laminae of the laminated units to separate intermediate their connected edges thereby forming a hollow cooked tube of alimentary paste, and removing the cooked units from the fat and drying them.

2,615,810

RETARDING THE STALING OF BAKERY PRODUCTS

Irwin Stone, New York, N. Y., assignor to Wallerstein Company, New York, N. Y., a corporation of New York

No Drawing. Application March 4, 1948, Serial No. 13,083

6 Claims. (Cl. 99—91)

1. The process of making bakery products having inhibited staling qualities which comprises incorporating in a dough a heat-stable alpha amylase enzymatic preparation in amounts equivalent to from 0.1 to 4 SKB alpha amylase units per 100 grams of flour in the dough, said enzymatic preparation being of such thermal stability that effective amounts of alpha amylase enzyme are present and active in the crumb at temperatures above the starch gelatinization point, and thereafter baking the dough.

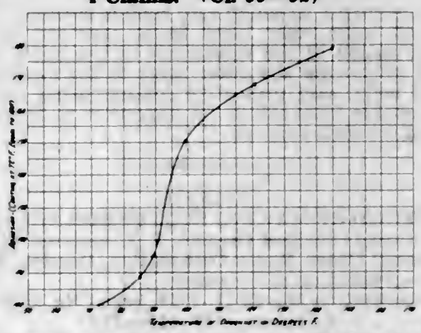
2,615,811

PROCESS OF INCREASING ADHESION OF COATINGS TO DEEP-FAT FRIED FOODS

Zenas Block, Larchmont, George J. Rosner, Brooklyn, and Abraham H. Goodman, Great Neck, N. Y., assignors to Doughnut Corporation of America, New York, N. Y., a corporation of New York

Application March 28, 1950, Serial No. 152,484

4 Claims. (Cl. 99—92)



1. The method of treating hot fried cakes to cause powdered sugar to adhere thereto which comprises the steps of cooling same to about 72° F. While evaporating a small portion of the water content thereof, raising the temperature thereof to above 85° F., and thereafter coating same while substantially at said raised temperature with powdered sugar.

2,615,812

COCONUT

Charles W. Kaufman, Tenafly, and Charles B. de Maya, Allendale, N. J., assignors to General Foods Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 12, 1950, Serial No. 189,896

8 Claims. (Cl. 99—125)

1. A process for preparing coconut which is tender and resistant to microbiological spoilage which comprises removing carbonyl-containing impurities from a humectant selected from the group consisting of propylene glycol and butylene glycol, and adding said purified humectant to the coconut whereby undesirable yellowing of the coconut is prevented.

2,615,813

PROCESS FOR DECOLORIZING AND STERILIZING SPICES

Bernard T. Malter, Los Angeles, Calif., assignor of one-half to Oscar Salenger, Beverly Hills, Calif.

No Drawing. Application December 23, 1949, Serial No. 134,870

12 Claims. (Cl. 99—140)

1. A process for decolorizing and sterilizing natural spices which comprises the steps of finely dividing a mass of natural spice containing fibrous spice particles, heating the mass of finely divided spice particles thus formed, and subjecting it to the action of a solvent so as to extract the green chlorophyll-type pigments and the oleoresinous material and essential oils therefrom, filtering the thus extracted green chlorophyll-type pigment, oleoresinous material, and essential oils, from the residue or filter cake containing undissolved fibrous spice particles, removing the green chlorophyll-type pigment from the filtrate by means of a decolorizing agent, subjecting the residue or filter cake containing the undissolved fibrous spice particles to the action of an oxidizing agent so as to bleach the black and red pigments in the fibrous spice particles in the filter cake in the absence of the said oleoresinous material and other essential oils, thoroughly intermixing the thus bleached fibrous spice particles in the filter cake with the filtrate, from which the green chlorophyll-type pigment has been removed, so as to thoroughly impregnate the bleached fibrous spice particles in the residue or filter cake with the oleoresinous materials and essential oils in the filtrate, and then removing the solvent and water from the thus treated finely divided spice particles in the filter cake.

2,615,814

PROCESS OF PRESERVING FRUITS AND VEGETABLES

Robert J. Geary, Blue Point, N. Y.

No Drawing. Application June 9, 1951, Serial No. 230,846

14 Claims. (Cl. 99—154)

1. A composition for treating skinless surfaces of fruits and vegetables comprising a mixture of an 8-hydroxy-quinoline compound and a member of the group consisting of lecithin and choline compounds.

2,615,815

CORROSION INHIBITING COMPOSITION

Gerald David Galvin and Alexander Espie McAulay, Fulham, England, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application December 21, 1948, Serial No. 66,593. In Great Britain March 12, 1948

16 Claims. (Cl. 106—14)

1. A composition for displacing moisture and preventing corrosion of metals having the following formula and proportions by weight:

	Per cent
Limed petroleum residue rich in natural cyclic acids	20
Lanolin	10
Sodium salt of oil-soluble petroleum sulfonic acid derived from raffinate fraction of a solvent-treated oil	3
Zinc naphthenate	5
Diacetone alcohol	2
White spirits	Balance

2,615,816

GLASS SOLDER

Anne Patricia Dovey, Hampstead, and Maurice Manners and John Henry Partridge, Pinner, England, assignors to General Electric Company, a corporation of New York

No Drawing. Application November 10, 1949, Serial No. 126,682. In Great Britain May 5, 1948

7 Claims. (Cl. 106—53)

1. A glass composition for use as a glass solder containing essentially lead oxide (PbO), cadmium oxide (CdO) and boron oxide (B_2O_3) with 0 to 8% zinc oxide (ZnO) substituted for part of the lead oxide and 0 to 2% of silica (SiO_2) by weight of the composition, the total content of lead oxide and cadmium oxide being 65% to 90% by weight of the composition, and the cadmium oxide content being 10% to 35% by weight, said glass having a coefficient of thermal expansion of 8 to 10×10^{-6}.

2,615,817

GLASS COMPOSITIONS

John Edwin Stanworth, Sheffield, and Alan Edward Dale, Barlow, England, assignors to General Electric Company, a corporation of New York

No Drawing. Application October 18, 1950, Serial No. 190,893. In Great Britain November 11, 1949

2 Claims. (Cl. 106—54)

1. An alkali vapor resistant borophosphate glass comprising, by weight, 13 to 20% phosphorus pentoxide, 35 to 46% boric oxide, 20 to 29% alumina, less than 10% silica and more than 15% and not more than 25% of one or more oxides of the group consisting of oxides of calcium, magnesium and barium.

2,615,818

BITUMINOUS EMULSION

Paul E. McCoy, San Francisco, Calif., assignor, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 21, 1950, Serial No. 151,055

7 Claims. (Cl. 106—277)

1. A bituminous-aqueous emulsion, wherein the bituminous substance normally possesses poor adhesiveness for hydrophilic aggregate, containing ammonium persulfate in a small amount sufficient substantially to improve the adhesiveness of said bituminous substance for hydrophilic aggregate in the presence of water.

2,615,819

SLOW-SETTING, OIL-IN-WATER BITUMINOUS EMULSION

Donald N. Manzer, near Walnut Creek, Calif., assignor, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 14, 1950, Serial No. 179,389

10 Claims. (Cl. 106—277)

1. A slow-setting oil-in-water type emulsion relatively stable against breakdown upon contact with electrolytes consisting essentially of water; a water-insoluble, water-dispersible, organic thermoplastic bituminous substance having been emulsified therein at a pH above about 9; and a small amount, sufficient substantially to promote adhesion of the emulsified bituminous substance, of at least one material of the group consisting of ammonium formate, ammonium acetate, ammonium oxalate, ammonium glutamate.

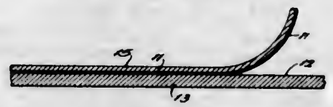
2,615,820

REMOVABLE PROTECTIVE COATING

Edward J. Schwoegler, Hammond, Ind., assignor to Nox-Rust Chemical Corporation, Chicago, Ill., a corporation of Illinois

Application March 1, 1949, Serial No. 78,976

2 Claims. (Cl. 117—6)



1. An article of manufacture comprising a metallic body having a strippable protective coating thereon, said strippable protective coating comprising an inner continuous film-forming rubbery resinous layer of a thickness of about 0.002 to about 0.1 inch and having limited adhesion to said metallic body at room temperatures, said rubbery resinous layer being selected from the group consisting of vinyl chloride-vinyl acetate copolymers, polystyrenes, polyacrylates, polyethylenes, butadiene-acrylonitrile copolymers, butadiene-styrene copolymers, rubber hydrochlorides and chlorinated rubbers, and an outer layer of a normally solid asphaltic material having a melting point of 140° F. to 200° F. and of materially greater thickness than that of the inner layer and effective to resist the forces and elements to which said body is normally subjected, said inner layer being resistant to the penetration of the substances of the outer layer and anchoring the outer layer to the surface of said body, said protective coating being cleanly strippable from said body responsive to force applied for such purpose.

2,615,821

METHOD OF MAKING SCOTOPHOR SCREENS

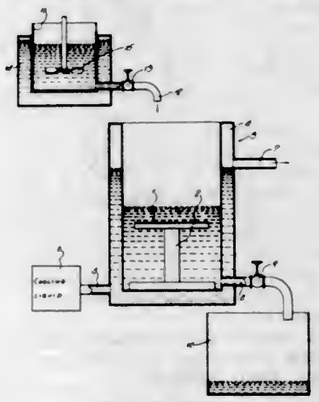
Gustave Levy, East Orange, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware

Application March 11, 1949, Serial No. 80,905

6 Claims. (Cl. 117—33.5)

1. The method of forming a scotophor screen of alkali metal halide on the inner wall of a

cathode-ray tube and the like, which comprises discharging into the tube a saturated solution of an alkali metal halide crystal scotophor, adding to the saturated alkali metal halide solution at approximately 20° C. a quantity of the said alkali metal halide scotophor, heating the solu-



tion to about 35° C., then cooling the solution rapidly to approximately 20° C., reheating the solution to approximately 24° C., slowly recooling the solution to approximately 22° C. to deposit the scotophor on said wall, and decanting the supernatant liquid.

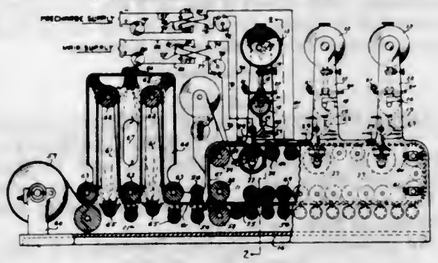
2,615,822

METHOD OF MAKING SHEET OR WEB MATERIAL

William C. Huebner, New York, N. Y.

Application February 21, 1946, Serial No. 649,315

7 Claims. (Cl. 117—47)



6. The method of making laminated webs, sheets or coatings which comprises creating and maintaining at spaced successively arranged deposit stations electrostatic fields of force each extending throughout a zone of complete transverse width of the web, sheet or coating to be produced and across an atmospheric gap between an elongated depending discharge element and a spaced elongated attraction element with both of said elements connected into a high potential electrical circuit, contemporaneously with the maintenance of the fields of force flowing liquified compositions in flowable form and containing electrically chargeable material at regulated flow rates and onto said discharge elements in the form of films of the compositions of predetermined thickness such that the films normally would be retained on said elements by surface tension but are migrated therefrom by the lines of force of the electrostatic fields of force through the atmospheric gaps at the deposit stations toward said attraction elements, simultaneously and continuously during the maintenance of the fields of force moving an intercepting member linearly through said successive atmospheric gaps at a predetermined rate to intercept successively the migrating compositions in the form of a continuous base deposit on the number at the first deposit station and in the form of a continuous superimposed deposit at succeeding deposit stations and having the required transverse width of the web, sheet or coating, simultaneously and continuously during the maintenance of the fields of force inducing electrical precharges to the films of compositions on the discharge elements and electrical precharges to the intercepting member before it enters each of the electrostatic fields of force from electrical sources independent of the electrical sources of the electrostatic fields of force, and then passing the moving intercepting member and the deposited compositions through air currents to solidify and integrate the deposited compositions by the thermal and dehumidifying action of the air currents.

2,615,823

BACTERICIDAL AND FUNGICIDAL COMPOSITION

Francis Earl Lawlor, Philadelphia, Pa., and Ferri Casciani, Lewiston, N. Y., assignors to Niagara Alkali Company, New York, N. Y., a corporation of New York

No Drawing. Application March 30, 1950, Serial No. 153,004

6 Claims. (Cl. 117—138.5)

1. A method of destroying micro-organisms which comprises contacting them with a polyalkoxychlorobenzene, selected from the group consisting of di-alkoxytetrachlorobenzenes and tri-alkoxytrichlorobenzenes.

2,615,824

METHOD AND COMPOSITION FOR IMPARTING WATER RESISTANCE TO TEXTILE MATERIAL

Francis W. Minor, Arlington, Va., Arnold M. Sookne, Washington, D. C., Milton Harris, Bethesda, Md., and Gray L. Pyle, Chicago, Ill., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Army

No Drawing. Application February 17, 1948, Serial No. 9,008

4 Claims. (Cl. 117—161)

1. A method of imparting water resistance to a normally water-non-resistant textile material, comprising immersing said material into a solution in an inert solvent of a lower-monoalkyl-substituted dihalosilane selected from the group consisting of monoalkyl dichlorosilane and monoalkyl dibromosilane and having not more than three carbon atoms in its alkyl substituent chain and 3,4-epoxybutene-1, in the presence of moisture, whereby said substituted dihalosilane is hydrolyzed in situ and the hydrohalic acid formed as hydrolysis by-product is neutralized in situ, and exposing said material to an elevated temperature after its removal from said solution, whereby the hydrolyzed substituted silane is condensed in situ to a water resistant deposit.

2,615,825

METHOD EMPLOYING AMINES FOR CLEANING TYPE MATRIXES

William Heinecke, New York, N. Y.

No Drawing. Application October 24, 1946, Serial No. 705,481

14 Claims. (Cl. 134—2)

1. A method for cleaning grime containing lead sulfide and graphite from brass matrixes

for integral line type and comprising washing the matrixes at room temperature in a free amine which is liquid at room temperature.

2,615,826

ARTICLE COMPRISING CORD BONDED TO RUBBER BY A VINYLPYRIDINE ADHESIVE

Gerald D. Mallory, Akron, and Theodore R. Ten Broeck, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application August 2, 1946, Serial No. 687,940
6 Claims. (Cl. 154—46)

1. A bonded composite material comprising a cord embedded in a vulcanized rubber, and a composition comprising a copolymer of a 1,3-diene monomer and a vinylpyridine monomer, a rubbery copolymer of styrene and 1,3-butadiene and a phenol-formaldehyde resin forming a bond between the cord and rubber.

2,615,827

FUNGICIDAL AND INSECTICIDAL PREPARATIONS

Albert J. Shmidl, Greens Bayou, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application January 3, 1950, Serial No. 136,643
5 Claims. (Cl. 167—30)

1. A fungicide and insecticide which comprises a chlorinated duroquinone containing approximately 54.5% by weight of chlorine substituted on the non-aromatic carbon atoms, a hydrocarbon, a wetting agent, and water.

2,615,828

COMPOSITIONS FOR TREATING KERATIN-CONTAINING MATERIALS

John W. Haefele, Cincinnati, Ohio, assignor to The Procter and Gamble Company, Ivorydale, Ohio, a corporation of Ohio

No Drawing. Application February 15, 1951, Serial No. 211,183
16 Claims. (Cl. 167—87.1)

1. A new composition comprising an aqueous solution at pH 7 to 10.5 of the equilibrium reaction mixture of (*a*) water-soluble mercaptan of the general formula RSH and (*b*) water-soluble salt of thiosulfuric acid of the general formula $R'SSO_3H$ wherein each of the symbols, R and R', represents a monovalent organic radical which is free of the concomitant presence of a carboxyl group and an amino group, and in which the free valence is on an aliphatic carbon atom, the total potential concentration of mercaptan in said solution being between 0.05 and 2.0 molal.

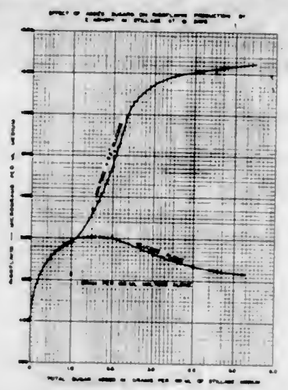
2,615,829

PRODUCTION OF RIBOFLAVIN

Don H. Larsen, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

Application May 15, 1946, Serial No. 669,799
5 Claims. (Cl. 195—35)

1. In a process for preparing riboflavin by the propagation of the organism *Eremothecium ashbyii* in nutrient protein-containing media, the improvement which comprises carrying out the fermentation in a medium comprising thin grain stillage resulting from the yeast fermentation of cereal grain in the production of ethyl alcohol, from 0.25 to 2.0% of a sugar selected from the group consisting of glucose, sucrose and levulose,



and from about 0.25 to 5.0% of maltose said medium being free from constituents of malt extract other than maltose.

2,615,830

PRODUCTION OF PENICILLIN

Richard J. Hickey, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

No Drawing. Application January 6, 1950, Serial No. 137,269
2 Claims. (Cl. 195—36)

1. In a process for preparing penicillin by the propagation of the organism *Penicillium chrysogenum* in a nutrient medium, the improvement which comprises propagating said organism under aerobic conditions in a nutrient medium containing from about 0.002 to 0.8% by weight of phenylacetamide and about 0.002 to 0.4% by weight of a member selected from the group consisting of oleic acid and non-toxic metal oleates.

2,615,831

DESULFURIZATION OF HYDROCARBON MIXTURES WITH NICKEL CARBONYL

Richard B. Bishop, Haddonfield, and William I. Denton, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application December 8, 1949, Serial No. 131,906
6 Claims. (Cl. 196—27)

1. A method of desulfurizing a mixture of hydrocarbons which comprises heating a mixture of hydrocarbons containing sulfur bearing compounds to at least 400° F., to vaporize said mixture of hydrocarbons, introducing said vaporized hydrocarbons into a cylindrical reaction zone in the region of the bottom thereof in a direction tangential to the inner periphery of said zone thereby causing said vapors to rise in said reaction zone as a swirling column, maintaining said reaction zone at a temperature of 400°–900° F. and at least the vaporization point of said mixture, introducing finely divided nickel carbonyl into the upper portion of said swirling column of vapors of said mixture of hydrocarbons at substantially the center thereof, whereby said nickel carbonyl is decomposed to form finely divided nickel, causing said finely divided nickel to descend through and in contact with said rising swirling column of vapors of said mixture of hydrocarbons containing sulfur bearing compounds thereby converting at least a portion of said finely divided nickel to nickel sulfide, withdrawing treated vapors of said mixture of hydrocarbons having a reduced concentration of sulfur from the top of said reaction zone, withdrawing a mixture of finely divided nickel and nickel sulfide from the bottom of said reaction zone, contacting said mixture of finely divided nickel and nickel sulfide with carbon monoxide, converting said nickel and nickel sulfide to nickel carbonyl, and treating another mixture of hydrocarbons containing sulfur bearing compounds with said nickel carbonyl.

5. A method of treating a mixture of finely divided nickel and nickel sulfide produced by desulfurizing a mixture of hydrocarbons with nickel carbonyl to regenerate nickel carbonyl which comprises contacting said mixture of finely divided nickel and nickel sulfide with carbon monoxide, converting said nickel and nickel sulfide to nickel carbonyl and treating another mixture of hydrocarbons containing sulfur-bearing compounds with said nickel carbonyl.

2,615,832

TREATMENT OF GASES OR VAPORS WITH LIQUIDS

Olaf George Dixon, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application October 8, 1946, Serial No. 702,048
In Great Britain June 16, 1943
5 Claims. (Cl. 202—40)



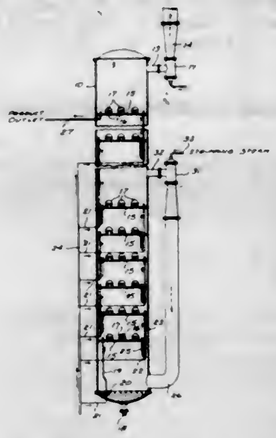
1. In a process for the distillation of liquids in a distillation column fitted at the top with a reflux condenser, at least part of the said distillation column being packed with substantially hollow filling bodies made from wire gauze, the apertures of the wire gauze being of such a size that they can be completely sealed by the liquid under the operating conditions, the ratio of the smallest cross-sectional dimension of the packed portion of the column to the greatest dimension of the filling bodies at that cross section being at least 4 to 1, the steps of passing the vapour of the liquid being treated from a boiler through a constriction into the distillation column, condensing the vapour in the said reflux condenser, returning the condensed liquid to the distillation column where it is prevented from returning to the boiler by the constriction, until the freely packed portion of the column is filled with liquid, adjusting the flow of condensed liquid returning to the column from the reflux condenser to an amount sufficient to maintain the apertures of the filling bodies completely sealed, opening the constriction so that excess liquid returns to the boiler and maintaining the rate of flow of the vapour up the column sufficiently low not to break said sealing.

2,615,833

METHOD AND APPARATUS FOR STRIPPING VOLATILES FROM FLUIDS

Dion K. Dean, Rahway, N. J., and Francis B. White, Elmhurst, N. Y., assignors to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application September 25, 1948, Serial No. 51,212
23 Claims. (Cl. 202—46)



6. Apparatus for the continuous deodorization of animal or vegetable oils comprising a column, means for continuously introducing oil to be deodorized into the lower portion of the column, means for continuously introducing a stripping medium into the lower portion of the column, a plurality of vertically spaced bubble trays in the column, conduit means extending between said lower portion of the column and a lower bubble tray therein, the inlet of said conduit being in communication with said lower portion to receive oil therefrom and the outlet of the conduit being in communication with the lower tray to discharge oil thereinto, a steam jet associated with said conduit so as to cause flow of oil from the inlet to the outlet of the conduit, other conduits connecting adjacent bubble trays from said lower bubble tray upwardly in the column, each of said other conduits having an inlet portion and an outlet portion, the inlet portion and outlet portion being in communication respectively with the lower and the upper trays of adjacent bubble trays, each of the inlet portions of said other conduit communicating with the lower tray of adjacent bubble trays and extending downwardly therefrom to communicate with the outlet portion, said outlet portion extending upwardly from the point of communication with the inlet portion to the tray next above said lower tray to discharge thereinto, a steam ejector associated with each of said other conduits, the ejectors having their suctions in communication with the inlet portions of said other conduits and their outlets in communication with said outlet portion thereof whereby oil from said lower tray is caused to flow downwardly through said inlet portion thence upwardly through said outlet portion of the conduits to said bubble tray next above the lower tray of adjacent trays, vacuum

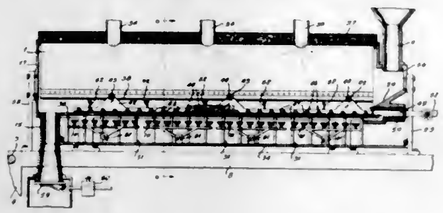
creating means having its suction in communication with the upper part of the column above an upper bubble tray and its discharge connected to a point outside the column whereby a vacuum is maintained in the column and stripping medium and volatile substance is withdrawn thereby from the column at the upper part thereof, and an outlet conduit in communication with said upper bubble tray in the column and through which stripped oil is withdrawn from said upper tray and from the column.

2,615,834

HORIZONTAL RETORT WITH RECIPROCATING AGITATOR

Franklin E. Poindexter, Richmond Heights, and Frank W. Lowe, St. Louis, Mo.

Application August 2, 1948, Serial No. 42,066
8 Claims. (Cl. 202—119)



6. A retort mechanism comprising a housing, means for pivotally supporting one end of said housing, an elongated charring plate in said housing and having high heat conducting properties, means for applying heat to said plate, means for regulating the amount of heat applied to different portions of said plate, means for introducing coal particles onto said plate, reciprocating agitator means for scraping and lifting coal from said plate for enabling unheated coal to contact said plate, said means including a series of transversely extending stirring and scraping blades projecting substantially into the layer of coal and moving in contact with said plate on both strokes, each blade having a concave cutting face on each side thereof, carriage means reciprocably mounted in said housing in which said agitator means is supported; means for tilting one end of said housing for regulating the rate of movement of the coal over the plate, said agitator blades advancing the layer on each cycle materially less than the length of the forward stroke, and counterpoise controlled means for rapidly reciprocating said carriage means for repeatedly permitting coal particles to contact said plate.

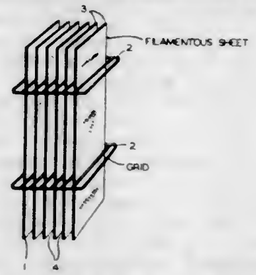
2,615,835

PACKING FOR A DISTILLATION COLUMN

Olaf George Dixon, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application November 7, 1946, Serial No. 708,223
In Great Britain November 13, 1945
4 Claims. (Cl. 202—153)

1. Apparatus for treating gases and liquids which comprises a vaporizer, a vertical column, a condenser and conduits connecting said parts in the order named; said column having a packing consisting substantially wholly of vertically disposed and spaced apart filamentous sheets having their upper edges exposed within the upper portion of the column enclosure; a condensate conduit leading from the condenser and having one branch for discharging condensate from the system and a second branch for returning condensate to the column; means connected with said second branch for irrigating said upper exposed portions of the filamentous sheets with



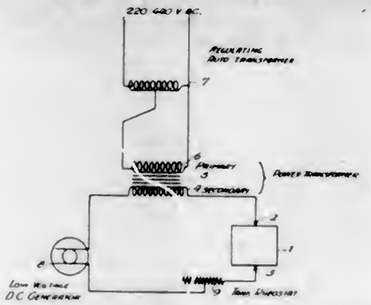
condensate for maintaining the sealing of the filamentous openings with liquid; and means between said branches for controlling the discharge and return of the condensate.

2,615,836

METHOD OF BONDING VITREOUS ENAMELS

Allan E. Chester, Highland Park, Ill., assignor to Poor & Company, Chicago, Ill., a corporation of Delaware

Application September 27, 1944, Serial No. 555,953
1 Claim. (Cl. 204—38)



A method of preparing vitreous enamel coated articles which consists essentially of electrodepositing on a ferrous metal article to be enameled a substantially uniform thin coating of a metal from the group consisting of antimony, arsenic and bismuth, said electrodeposition occurring from an electroplating bath containing a salt of said metal with an asymmetric alternating plating current comprising as one component an alternating current of a frequency within the range of 25 to 60 cycles and as the other component a direct current, the ratio of A. C. : D. C. being 2 to 4 volts R. M. S. : 2.5 volts D. C., at current densities within the range from about 2 to 15 amperes per square foot for a period of time within the range from about 8 seconds to 1½ minutes, thereafter applying over said metal coating a coating composition of a vitreous enamel substantially free from bonding materials, and then firing said enamel.

2,615,837

ELECTROPLATING BATH AND PROCESS

Andrew W. Liger, Wyandotte, Mich., assignor to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan

No Drawing. Application November 20, 1947, Serial No. 787,255
5 Claims. (Cl. 204—49)

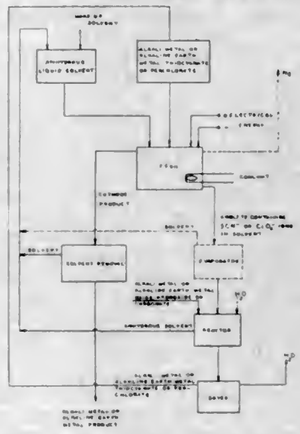
4. An electroplating bath comprising an aqueous solution of inorganic metallic compounds selected from the group consisting of an acid solution of a mixture of nickel chloride and nickel sulfate salts, and an alkaline cyanide solution of cadmium oxide; and containing an addition of sodium carboxymethylcellulose ranging, on the solution weight basis, from 0.05–0.10% when the nickel bath is employed and from 0.1–2.5% when the cadmium bath is used.

2,615,838

ELECTROLYTIC PROCESS OF PRODUCING ALKALI AND ALKALINE EARTH METALS

Leonard John Minnick, Cheltenham, and Cyril Presgrave, East Whitemarsh Township, Montgomery County, Pa., assignors to G. and W. H. Corson, Inc., Plymouth Meeting, Pa., a corporation of Delaware

Application May 27, 1946, Serial No. 672,704
8 Claims. (Cl. 204—59)



1. A cyclic process for producing a metal selected from the group consisting of the alkali metals and the alkaline earth metals which comprises electrolyzing between substantially inert electrodes in a cell a solution of a salt of said metal selected from the group consisting of the perchlorate and thiocyanate in an anhydrous liquid selected from the group consisting of ammonia, methylamine, ethylamine and pyridine to produce a cathode product and an anode product, the concentration of salt in said anhydrous liquid at least in contact with said cathode product being at least 2 mols of salt per litre of anhydrous liquid to provide a medium in which the cathode product is substantially insoluble; separating the cathode product from the electrolyte, whereby a cathode product comprising the metal substantially free from salt is obtained; separating the anode product comprising the anhydrous liquid, the anion of said metal salt and its associated solvated proton, SH^+, where S is said anhydrous liquid, from the cell; reacting the anion of said metal salt and its associated solvated proton with a compound of said metal selected from the group consisting of the oxide, hydroxide and carbonate to form the corresponding metal salt, and utilizing said metal salt, in substantially anhydrous form, as source material in the process.

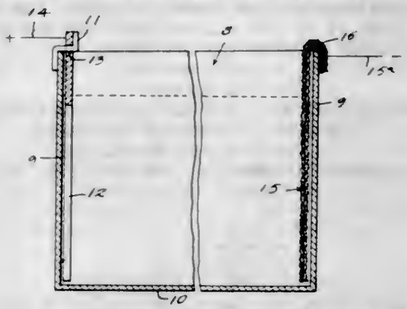
2,615,839

RECOVERY OF PRECIOUS METALS FROM PHOTOGRAPHIC BATHS

Henry O. Willier, Bethesda, Md.

Application April 12, 1948, Serial No. 20,537
3 Claims. (Cl. 204—109)

1. The method of removing silver from a photographic fixing solution, comprising the steps of: establishing a substantially quiescent body of said fixing solution, establishing an anode zone within but adjacent one side of said body and a cathode zone consisting essentially of an electrodepositing zone of substantial depth within but adjacent the opposite side of said body, passing an electric current from said anode zone to said cathode zone, causing said current to leave said solution in said cathode zone through



a multitude of ion collecting cathode surfaces therein facing in all directions, said surfaces being so arranged as to substantially but not completely encompass a multitude of discrete portions of said solution in said electrodepositing zone whereby silver ions in said discrete portions may move in substantially any direction toward one of said surfaces and thus effect rapid removal of said silver ions from said portions.

2,615,840

ELECTROLYTIC METHOD TO REMOVE RUST

Alfred Arthur Grahame Chapman, London, England

Application April 13, 1949, Serial No. 87,261
In France June 6, 1947
11 Claims. (Cl. 204—141)

1. A method of freeing metals from rust, corrosion and the like which comprises immersing a metal article in an electrolytic bath and passing an electric current between an anode in the bath and the article as a cathode, said bath consisting essentially of an aqueous solution of the following compounds:

Alkali metal hydroxide	2 to 3½ lbs./gal.
Alkali metal cyanide	2 to 4 oz./gal.
Alkali metal chloride	1 to 8 oz./gal.
Alkali metal fluoride	¼ to 2 oz./gal.
Wetting agent	⅛ to 14 oz./gal.

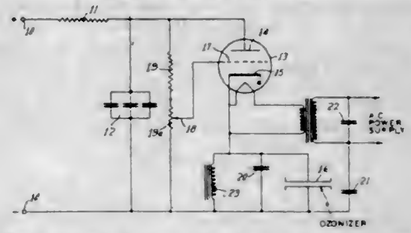
and a member of the class consisting of alkali metal metasilicate and aluminate, 2 to 4 oz./gal.

2,615,841

OZONE GENERATION

Clark E. Thorp, Chicago, and Gustaf Panula, Midlothian, Ill., assignors, by mesne assignments, to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application July 8, 1948, Serial No. 37,730
7 Claims. (Cl. 204—176)



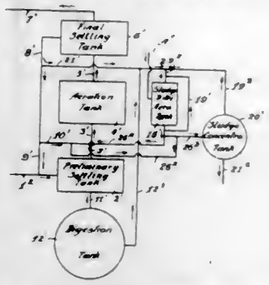
1. The method of generating ozone with an ozone generator having electrodes separated by

a gas space which includes successively impressing on said electrodes while passing oxygen through said gas space high potential voltage pulses characterized by an abrupt rise from minimum voltage to maximum voltage and an abrupt decrease from said maximum voltage to said minimum voltage and a substantially rectangular shape, each of said pulses having a predetermined time duration within the range of from 10 to 200 microseconds per 0.3 cm. of gas space between the electrodes.

2,615,842

METHOD OF AND APPARATUS FOR CONCENTRATING SEWAGE SLUDGES

Leon S. Kraus, Peoria, Ill.
Application October 24, 1946, Serial No. 705,269
5 Claims (Cl. 210—2)



4. The method of treating sewage which comprises the steps of settling the settleable solids of raw sewage in a preliminary settling zone, passing the effluent from the primary settling zone into a biological oxidation zone, passing the effluent from the biological oxidation zone into a final settling zone, passing settled solids from said final settling zone to a digestion zone, passing settled solids from said digestion zone and settled solids from said final settling zone to a nitrifying zone, aerating the mixture of settled solids in said nitrifying zone, passing effluent from said nitrifying zone into a quiescent sludge concentration zone wherein the solids undergo denitrification and accumulate at the surface in said quiescent zone and removing said accumulated solids.

2,615,843

OIL COMPOSITIONS CONTAINING STABILIZED COPOLYMER ESTER-TYPE POUR POINT DEPRESSANTS

John J. Giammaria, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application August 31, 1951, Serial No. 244,716
9 Claims. (Cl. 252—33.4)

1. A mineral lubricating oil containing (*a*) a minor amount, sufficient to improve the detergent character of said oil, of a basic metal sulfonate and (*b*) a minor amount, sufficient to depress the pour point of said oil of an esterified copolymer which has been stabilized against the deleterious effect normally exerted on said esterified copolymer by the basic metal sulfonate in the oil, which effect reduces the ability of said esterified copolymer to lower the pour point of said oil; said esterified copolymer having been formed by reacting a vinyl compound, selected from the group consisting of styrene, 1-olefins, vinyl esters and vinyl ethers, with maleic anhydride in about equimolar quantities and then esterifying the copolymer thus formed with an alcohol material selected from the group consisting of primary, normal, saturated, aliphatic alcohols having from 12 to 14 carbon atoms and a mixture of primary, normal, saturated aliphatic alcohols having from 10 to 18 carbon atoms and an average of from 12 to 14 carbon atoms per molecule; said esterified copolymer having been stabilized by reaction of said esterified copolymer with from about 1 to about 10 per cent by weight of a primary amine at a temperature of from about 125° C. to about 200° C., for a period of from about 1 to about 5 hours.

2,615,844

MINERAL OIL COMPOSITIONS CONTAINING ESTERS OF THIOPHENE-MODIFIED COPOLYMERS OF MALEIC ANHYDRIDE WITH ALIPHATIC VINYL COMPOUNDS

John J. Giammaria, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application November 14, 1949, Serial No. 127,267
11 Claims. (Cl. 252—48.6)

1. A mineral lubricating oil containing a minor proportion, sufficient to improve the viscosity index thereof, of the product obtained by (1) copolymerizing 1 mole of maleic anhydride with about 1 mole of an aliphatic vinyl compound in the presence of from about 0.25 mole to about 6 moles of a thiophene compound selected from the group consisting of thiophenes and alkyl thiophenes, to form a thiophene-modified copolymer product and (2) reacting the copolymer product with a compound selected from the group consisting of (*a*) primary, normal, saturated, aliphatic alcohols having from about 12 to about 18 carbon atoms, (*b*) primary and secondary, saturated, aliphatic amines having from about 12 to about 18 carbon atoms and (*c*) a mixture of primary, saturated, aliphatic amines containing from 8 to 18 carbon atoms and having an average of about 12 carbon atoms per molecule.

2,615,845

LUBRICATING OIL ADDITIVES

Samuel B. Lippincott and Louis A. Mikeska, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 2, 1948, Serial No. 42,155
4 Claims. (Cl. 252—56)

1. A mineral lubricating oil containing a minor proportion sufficient to increase the viscosity index and lower the pour point of said oil, of a relatively high molecular weight copolymer reaction product formed by reacting substantially equimolar proportions of maleic anhydride and a straight chain 1-olefin having up to 20 carbon atoms in the presence of a peroxide type catalyst and thereafter esterifying the copolymer with a mixture of saturated straight chain alcohols ranging from 10 to 18 carbon atoms, but having a major proportion of lauryl alcohol.

2,615,846

WASHING COMPOSITION

Vladimir Dvorkovitz, Winnetka, Ill., and Thomas G. Hawley, Jr., Englewood, N. J., assignors to The Diversey Corporation, a corporation of Illinois
No Drawing. Application December 1, 1951, Serial No. 259,485
10 Claims. (Cl. 252—156)

1. In the washing of glassware, metal, rubber and the like with water containing dissolved calcium and magnesium salts with highly caustic solutions, the method of preventing deposit of unslightly films on the articles being washed which comprises adding to the hard water about 0.25–20% by weight of caustic alkali and about 0.025–2% by weight of alkali metal gluconate, the additions being free from ions capable of precipitating substantial amounts of calcium and magnesium salts in the presence of alkali metal gluconate whereby the alkali metal gluconate substantially inhibits precipitation of the calcium and magnesium salts of the hard water.

2,615,847

ALKARYL SULFONATE DETERGENTS

Kenneth M. Thompson, Aldan, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application January 27, 1950, Serial No. 140,949
5 Claims. (Cl. 252—161)

1. A detergent in which the active ingredients comprise a mixture of 95% to 75% of a water soluble salt of a mono-alkylated aryl sulfonic acid in which the alkyl group contains from 9 to 15 carbon atoms and 5% to 25% of a water soluble salt of an alkylated aryl sulfonic acid from the group consisting of salts of xylene sulfonic acid and salts of ethyl benzene sulfonic acid, said water soluble salts being prepared by subjecting to the action of a sulfonating agent a mixture of a mono-alkylated aryl hydrocarbon in which the alkyl group contains from 9 to 15 carbon atoms and a quantity of an alkylated aryl hydrocarbon from the group consisting of xylene and ethyl benzene, such that upon sulfonation and neutralization of the mixture, the salt of the sulfonic acid derived from the last-mentioned alkylated aryl hydrocarbon will constitute between 5% and 25% of the total salts of the sulfonic acids, and recovering the resulting sulfonic compounds from the sulfonation mixture.

2,615,848

METHOD OF PRODUCING MAGNESIUM ARSENATE PHOSPHOR ACTIVATED BY MANGANESE

Robert Stirling Wells, Rugby, England, assignor to General Electric Company, a corporation of New York
No Drawing. Application October 16, 1951, Serial No. 251,629. In Great Britain November 8, 1950
2 Claims. (Cl. 252—301.4)

1. In the method of preparing a luminescent material by heating at a temperature of about 1150° C. compounds of magnesium, arsenic and manganese in proportions to furnish magnesium oxide and arsenic pentoxide in a mol ratio between about 8:1 and 10:1 and manganese in an amount of about 0.001 to 5 mol percent of the magnesium oxide, the improvement which comprises employing as the magnesium compound a material of the group consisting of magnesium peroxide and mixtures of magnesium peroxide and magnesium oxide containing at least about 25% magnesium peroxide, and firing the mixture for about two to five hours.

2,615,849

INFRARED QUENCHABLE ZINC SULFIDE PHOSPHORS

John A. Markoski, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application December 31, 1948, Serial No. 68,729
4 Claims. (Cl. 252—301.6)

1. A phosphor material consisting essentially of a substance from the class consisting of zinc sulphide and zinc cadmium sulphide and between 0.0018% and 0.0036% iron, said phosphor material being activated with a small percentage of a material from the class consisting of copper, and copper and silver.

2,615,850

MANGANESE ACTIVATED ZINC LITHIUM SILICATE PHOSPHOR

Alfred H. McKeag, North Wembley, England, assignor to General Electric Company, a corporation of New York
No Drawing. Application April 28, 1951, Serial No. 223,663. In Great Britain May 30, 1950
2 Claims. (Cl. 252—301.6)

1. A luminescent material consisting essentially of manganese-activated zinc-lithium silicate having a molecular ratio of zinc oxide to lithium oxide of about 2:1 and a molecular ratio of silica to lithium oxide between about 12:1 and 2:1, the manganese activator being approximately 2–5 per cent by weight of the material.

2,615,851

BITUMINOUS EMULSIONS

Donald N. Manzer, Walnut Creek, Calif., assignor, by mesne assignments, to American Bitumuls & Asphalt Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 21, 1951, Serial No. 242,989
10 Claims. (Cl. 252—311.5)

1. A slow-setting oil-in-water type emulsion relatively stable against breakdown upon contact with electrolytes consisting essentially of water; a water-insoluble, water-dispersible, organic thermoplastic bituminous substance having been emulsified therein at a pH above about 9; and a small amount, sufficient substantially to promote adhesion of the emulsified bituminous substance, of salt material of the group consisting of ammonium sulfate, ferrous ammonium sulfate, ammonium nitrate, ammonium sulfamate, ammonium chloride, ammonium molybdate, ammonium thiocyanate, and mixtures thereof as the sole effectual agent in promoting said adhesion of the emulsified bituminous substance.

2,615,852

DEMULSIFYING CHEMICALS AND METHOD OF BREAKING EMULSIONS

Earl T. Kocher, Bellflower, Calif., assignor to Visco Products Company, Houston, Tex., a corporation of Delaware
No Drawing. Application December 14, 1948, Serial No. 65,294
14 Claims. (Cl. 252—329)

1. A process for the resolution of oil-in-water emulsions which comprises subjecting an oil-in water emulsion to the action of a molecularly dehydrated condensation product of the reaction of 3% to 10% by weight of zinc chloride with an alkylolamine heated together under conditions facilitating the elimination of water.

2,615,853

METHOD OF BREAKING WATER-IN-OIL EMULSIONS

Willard H. Kirkpatrick, Sugar Land, Tex., and John W. Ryznar, La Grange Park, Ill., assignors to Visco Products Company, Houston, Tex., a corporation of Delaware
No Drawing. Application November 4, 1948, Serial No. 58,354
8 Claims. (Cl. 252—331)

1. A process of breaking water-in-oil emulsions which comprises treating such emulsions with an aliphatic ether alcohol characterized by a polyoxyalkylene group having different terminal groups connected to different carbon

atoms, one of said terminal groups being a hydroxy group and the other being an ether group, said ether alcohol having a molecular weight of at least 1500, exclusive of the organic radical of the terminal ether group, and being free from ionizable acidic and salt-forming groups, the oxyalkylene groups in said ether alcohol being from the group consisting of oxyethylene and oxy-1,2-propylene groups and there being at least ⅓ part of 1,2-propylene oxide for each part of ethylene oxide by weight.

2,615,854

PRINTING INK CONTAINING A TERPENE MODIFIED PHENOL FORMALDEHYDE RESIN

John Pantin, Chicago, and Gordon R. MacQuaker, Wheaton, Ill., assignors to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware

No Drawing. Application September 9, 1949, Serial No. 114,918

9 Claims. (Cl. 260—25)

8. A vehicle for a printing ink comprising a resinous binder selected from the group consisting of metallic resinates and rosin esters, and a high boiling aliphatic hydrocarbon solvent therefor, said solvent having a boiling point not lower than approximately 240° C., and including from about 40% by weight to about 60% by weight based upon the weight of the said vehicle of a gel-like composition consisting of a high boiling aliphatic hydrocarbon solvent-soluble terpene-modified phenol-formaldehyde resin, a high boiling aliphatic hydrocarbon solvent having a boiling point not lower than approximately 240° C., and approximately 2% to 4% by weight of the said composition of aluminum octoate.

2,615,855

MANUFACTURE OF MOLDING POWDERS FROM SHELLAC AND RESINOLS LIKE BHILAWAN SHELL LIQUID OR CASHEW SHELL LIQUID

Salimuzzaman Siddiqui, New Delhi, and Krishen Kumar Sarin and Jyoti Prasad Varma, Poona, India, assignors to Council of Scientific and Industrial Research, New Delhi, India

No Drawing. Application May 1, 1950, Serial No. 159,382. In India May 9, 1949

2 Claims. (Cl. 260—25)

1. A molding powder comprising a mixture of an inert filler, phenol-formaldehyde resin and a cured reaction product of shellac and a resinol obtained from the pericarp of the nuts and incised trunks of plants belonging to the natural order Anacardiaceae, said molding powder being produced by subjecting a mixture of shellac and from about 18 to 20 per cent of said resinol, based on the weight of the shellac, to the action of steam at a pressure of from about 30 to 40 pounds per square inch for a period of from about 1 to 5 hours, followed by further heating at a temperature of from about 110° to 120° C. for from about 6 to 8 hours and then blending the resulting product with phenol-formaldehyde resin.

2,615,856

RUBBERLIKE MATERIALS AND AN UNSATURATED HYDROCARBON OIL

Herman S. Bloch, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application June 30, 1948, Serial No. 36,262

11 Claims. (Cl. 260—33.6)

1. A composition of matter comprising a rubber selected from the group consisting of natural rubber, butadiene-styrene copolymers, butadiene-acrylonitrile copolymers, and butadiene-isobutylene copolymers, and a plasticizer selected from the group consisting of: (1) an unsaturated polycyclic hydrocarbon residue containing conjugated unsaturation and produced by reacting in the presence of liquid hydrogen fluoride at a temperature of from about 0° to about 150° C. at least one aliphatic hydrocarbon selected from the group consisting of isoparaffinic and olefinic hydrocarbons, separating the resultant reaction products into a hydrocarbon layer and a hydrogen fluoride layer, recovering a substantially fluorine-free hydrocarbon material from said hydrogen fluoride layer, and removing from said last-named material the hydrocarbons boiling below about 150° C. to leave said residue, and (2) the reaction product of sulfur with said hydrocarbon residue.

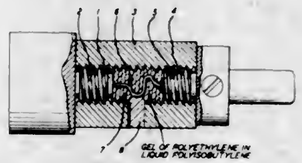
2,615,857

POLYETHYLENE-POLYISOBUTYLENE COMPOSITION

Walter J. Clarke, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 23, 1949, Serial No. 134,784

5 Claims. (Cl. 260—33.6)



1. A composition consisting essentially of a gel of between about 5 per cent and about 35 per cent of polyethylene having a molecular weight between about 4,000 and about 15,000 and the remainder a viscous, liquid polyisobutylene having a molecular weight between about 2,000 and about 7,000.

2,615,858

POLYVINYL CHLORIDE ORGANOSOL COMPOSITIONS CONTAINING A NON-VOLATILE EXTRACT OF PETROLEUM

De Loss E. Winkler, Orinda, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application February 6, 1950, Serial No. 142,700

10 Claims. (Cl. 260—33.6)

1. An organosol composition comprising finely divided thermoplastic polymer of vinyl chloride containing at least 90% vinyl chloride units therein and having a molecular weight above 20,000 suspended in a homogeneous liquid vehicle containing volatile liquid hydrocarbons boiling within the range of 35° C. to 250° C., and a plasticizer for said polymer which is an ester compatible therewith and a petroleum extract obtained by extracting petroleum with a non-reactive highly polar solvent, which ester and extract each boil above 125° C. at 1 mm. Hg pressure, said hydrocarbons being present in amount of 50 to 300 parts by weight per 100 parts of said polymer and said plasticizer being present in amount of 40 to 150 parts by weight per 100 parts of said polymer, and said extract constituting from 20% of said plasticizer up to less than that proportion at which the mixture of said extract and said ester ceases to be compatible with said polymer.

2,615,859

POLYVINYL CHLORIDE PLASTICIZED WITH A CHLOROALKYLCHLOROBENZENE COMPOUND

André Gision, Paris, France, assignor to Compagnie Francaise de Raffinage (Societe Anonyme), Paris, France

No Drawing. Application March 7, 1947, Serial No. 733,189. In France February 20, 1946

Section 1, Public Law 690, August 8, 1946

Patent expires February 20, 1966

3 Claims. (Cl. 260—33.8)

1. A plasticized product comprising a vinyl chloride polymer and a plasticizer which is a chloralkylchlorobenzene compound, said compound being made by condensing aliphatic gas oil which contains about 30% chlorine with a compound selected from the group consisting of benzene and monochlorobenzene and thereupon chlorinating the resulting condensation product to about 40% chlorine content.

2,615,860

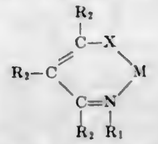
SYNTHETIC RESINS STABILIZED WITH METAL CHELATE COMPOUNDS

Arthur Reginald Burgess, Harpenden, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application June 3, 1950, Serial No. 166,077. In Great Britain June 9, 1949

7 Claims. (Cl. 260—45.75)

6. A composition comprising a synthetic resin from the class consisting of polyvinyl chloride and a solid polymer of ethylene and not more than 10%, by weight, of said resin of a metal chelate compound having the formula:



in which M represents a metal atom selected from the group consisting of nickel, copper, lead and uranium; X represents an atom from the group consisting of oxygen and sulphur; R_1 represents a radical from the group consisting of hydrogen, hydroxyl, alkyl and aryl; and R_2 represents a radical from the group consisting of hydrogen, alkyl and aryl.

2,615,861

REACTING METHYL TRIACETOXY SILANE WITH POLYSILOXANE RESIN

Pierre Pascal Peyrot, La Begude, Feyzin, and Louis Jean Dumoulin, La Terrasse-sur-Dorlay, France, assignors to Societe des Usines Chimiques Rhone-Poulenc, Paris, France, a French body corporate

No Drawing. Application August 9, 1948, Serial No. 43,348. In France March 10, 1948

12 Claims. (Cl. 260—46.5)

1. A process for the production of a polysiloxane resin of improved properties which comprises admixing methyl triacetoxy silane with an incompletely condensed polysiloxane resin which contains, per silicon atom, 1 to 1.7 organic radicals selected from the class consisting of alkyl and aralkyl radicals, the said methyl triacetoxysilane being between 7 and 90% by weight of the mixture, and thereafter continuing the condensation of the said resin, the reaction being effected under substantial anhydrous conditions.

2,615,862

PROCESS FOR REACTING AZELAIC DIHYDRAZIDE WITH OXALIC ACID

Samuel B. McFarlane, Jr., and Alfred L. Miller, Summit, N. J., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application April 9, 1949, Serial No. 86,602

2 Claims. (Cl. 260—78)

1. Process for the production of a polymer, which comprises reacting at a temperature of 170 to 190° C. azelaic dihydrazide with an equimolecular quantity of oxalic acid in a reaction medium consisting of nitrobenzene.

2,615,863

POLYMERS

Paul J. Flory, Ithaca, N. Y., assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application September 29, 1950, Serial No. 187,681

12 Claims. (Cl. 260—78)

1. A method of preparing a polyamide condensation polymer which comprises heating a compound of the group consisting of amino acids having, as the sole reactive groups, a single primary amino group and a single carboxylic acid group, said groups being separated by more than four atoms, and the corresponding amide-forming esters, amides and lactams of said amino acids, with a compound of the group consisting of polyamines having, as the sole reactive groups, at least three reactive amino groups attached to aliphatic carbon atoms, and the corresponding amide-forming amides of said polyamines, said amino acids being present in the proportion of 30 to 30,000 molecules for each molecule of polyamine.

2,615,864

ESTERIFIED ALLYL ESTER-POLYCARBOXYLIC ACID COPOLYMERS

John J. Giammaria, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Original application June 21, 1947, Serial No. 756,316. Divided and this application June 23, 1949, Serial No. 100,974

1 Claim. (Cl. 260—78.5)

As a new composition of matter a reaction product formed by copolymerizing allyl benzoate with maleic anhydride in the presence of a polymerization catalyst at a temperature of from about 50° C. to about 150° C. and reacting the copolymer product thus formed with a mixture of primary, normal, saturated, aliphatic, monohydric, unsubstituted, alcohols having from 8 to 18 carbon atoms and an average of about 14 carbon atoms per molecule.

2,615,865

COPOLYMERS OF VINYLIDENE CYANIDE WITH MONOOLEFINS

Alan E. Ardis, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 13, 1949, Serial No. 115,561

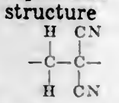
9 Claims. (Cl. 260—78.5)

1. A copolymer of monomeric vinylidene cyanide and a monoolefin of the structure

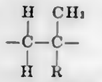
wherein R is an alkyl radical, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents the vinylidene cyanide unit of the structure



each M_2 represents a monoolefin unit of the structure



and x represents a number, said copolymer being a resinous, heat-softenable solid which is soluble at room temperature in dimethyl formamide but which is insoluble at room temperature in each of alcohol, benzene, and ether, the monomeric vinylidene cyanide entering into said copolymer to produce the vinylidene cyanide units being a liquid at room temperature and a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin and by the ability to react at room temperature with butadiene-1,3 to give solid 4,4-dicyanocyclohexene.

2,615,866

COPOLYMERS OF VINYLIDENE CYANIDE WITH VINYL ESTERS

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 13, 1949, Serial No. 115,562

8 Claims. (Cl. 260—78.5)

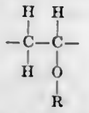
1. A copolymer of monomeric vinylidene cyanide and a vinyl ester of an unsubstituted aliphatic monocarboxylic acid, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents a vinylidene cyanide unit of the structure



each M_2 represents a unit of said vinyl ester of the structure



wherein R is the acyl radical of the said aliphatic monocarboxylic acid and x represents a number, said copolymer being a resinous, heat-softenable solid which is soluble at room temperature in dimethyl formamide, but which is insoluble at room temperature in each of acetone, acetic acid, alcohol and ether, the monomeric vinylidene cyanide entering into said copolymer to produce the vinylidene cyanide units being a liquid at room temperature and a crystalline solid at 0° C. having a melting point when in purest form of substantially 9.0° to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin.

2,615,867

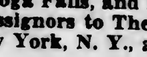
COPOLYMERS OF VINYLIDENE CYANIDE WITH VINYL ESTERS OF AROMATIC ACIDS

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 13, 1949, Serial No. 115,563

7 Claims. (Cl. 260—78.5)

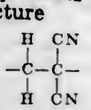
1. A copolymer of monomeric vinylidene cyanide and a vinyl ester of the formula



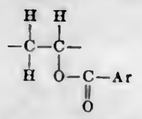
wherein Ar is an aromatic radical in which all the hydrogen atoms are attached to carbon atoms, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents the vinylidene cyanide unit of the structure



each M_2 represents a vinyl ester unit of the structure



and x represents a number, said copolymer being a resinous, heat-softenable solid which is soluble at room temperature in dimethyl formamide, but which is insoluble at room temperature in each of acetone, alcohol, benzene, and ether, the monomeric vinylidene cyanide entering into said copolymer to produce the vinylidene cyanide units being a liquid at room temperature and a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin, and by the ability to react at room temperature with butadiene-1,3 to give solid 4,4-dicyanocyclohexene.

2,615,868

COPOLYMERS OF VINYLIDENE CYANIDE WITH STYRENE AND SUBSTITUTED STYRENES

Floyd F. Miller, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 13, 1949, Serial No. 115,564

16 Claims. (Cl. 260—78.5)

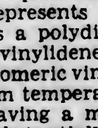
1. A copolymer of monomeric vinylidene cyanide and a compound of the formula



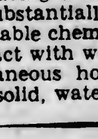
wherein Ar is an aromatic radical in which all the hydrogen atoms are attached to carbon atoms and R is a member of the class consisting of hydrogen atoms and alkyl radicals, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents the vinylidene cyanide unit of the structure



each M_2 represents the unit of the structure



and x represents a number, said copolymer being a resinous heat-softenable solid which is soluble at room temperature in dimethyl formamide, but which is insoluble at room temperature in each of alcohol, benzene, and ether, and the monomeric vinylidene cyanide entering into said copolymer to produce the vinylidene cyanide units being a liquid at room temperature and a crystalline solid at 0° C., having a melting point when in purest form, of substantially 9.0° C. to 9.7° C., and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin and by the ability to react at room temperature with butadiene-1,3 to give solid 4,4-dicyanocyclohexene.

2,615,869

COPOLYMERS OF VINYLIDENE CYANIDE WITH VINYL CHLORIDE

Vernon L. Folt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application February 14, 1950, Serial No. 144,196

3 Claims. (Cl. 260—78.5)

1. A copolymer of vinylidene cyanide and vinyl chloride, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents a vinylidene cyanide unit, each M_2 represents a unit of said vinyl chloride and x is a polydigit number, in which copolymer the vinylidene cyanide units are derived from monomeric vinylidene cyanide which is a liquid at room temperature and a crystalline solid at 0° C., having a melting point, when in purest form, of substantially 9.0° C. to 9.7° C., and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin.

2,615,870

COPOLYMERS OF VINYLIDENE CYANIDE WITH VINYLIDENE CHLORIDE

Vernon L. Folt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application February 14, 1950, Serial No. 144,197

5 Claims. (Cl. 260—78.5)

1. A copolymer of vinylidene cyanide and vinylidene cyanide and vinylidene chloride, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents a vinylidene cyanide unit, each M_2 represents a unit of said vinylidene chloride and x is a polydigit number, in which copolymer the vinylidene cyanide units are derived from monomeric vinylidene cyanide which is a liquid at room temperature and a crystalline solid at 0° C., having a melting point, when in purest form, of substantially 9.0° C. to 9.7° C., and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin.

2,615,871

COPOLYMERS OF VINYLIDENE CYANIDE WITH ALKYL METHACRYLATES

Vernon L. Folt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

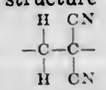
No Drawing. Application February 14, 1950, Serial No. 144,198

11 Claims. (Cl. 260—78.5)

1. A copolymer of vinylidene cyanide and an alkyl methacrylate, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents the vinylidene cyanide unit of the structure



each M_2 represents a unit of said alkyl methacrylate and x is a polydigit number, the monomeric vinylidene cyanide entering into said copolymer being a liquid at room temperature and a crystalline solid at 0° C., having a melting point, when in purest form, of substantially 9.0° C. to 9.7° C., and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin.

2,615,872

COPOLYMERS OF VINYLIDENE CYANIDE WITH HALOGENATED BUTADIENE-1,3 HYDROCARBONS

Seward J. Averill, Boston, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

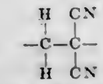
No Drawing. Application April 29, 1950, Serial No. 159,146

7 Claims. (Cl. 260—78.5)

1. A hard, resinous, non-rubbery copolymer of vinylidene cyanide and a halogenated butadiene-1,3 hydrocarbon, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 is a vinylidene cyanide unit of the structure



each M_2 is a unit of said halogenated butadiene-1,3 hydrocarbon and x is a polydigit number, the vinylidene cyanide units in said copolymer being derived from monomeric vinylidene cyanide which is a liquid at room temperature and a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C., and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin.

2,615,873

COPOLYMERS OF VINYLIDENE CYANIDE WITH ALIPHATIC CONJUGATED DIOLEFINS

Seward J. Averill, Boston, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application April 29, 1950, Serial No. 159,147

9 Claims. (Cl. 260—78.5)

1. A hard, resinous, non-rubbery copolymer of vinylidene cyanide and an aliphatic conjugated diolefin, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 is a vinylidene cyanide unit of the structure



each M_2 is a unit of said aliphatic conjugated diolefin, and x is a polydigit member, the vinylidene cyanide units in said copolymer being derived from monomeric vinylidene cyanide which is a liquid at room temperature and a crystalline solid at 0° C. having a melting point when in purest form of substantially 9.0° C. to 9.7° C., and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin.

2,615,874

COPOLYMERS OF VINYLIDENE CYANIDE AND PROPYLENE

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

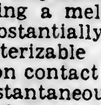
No Drawing. Application August 25, 1950, Serial No. 181,562

5 Claims. (Cl. 260—78.5)

1. A copolymer of monomeric vinylidene cyanide and propylene possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents the vinylidene cyanide unit of the structure



and each M_2 represents the propylene unit of the structure



and x represents a number, said copolymer being a resinous heat-softenable solid which is soluble at room temperature in dimethyl formamide but which is insoluble at room temperature in each of alcohol, benzene and ether, and the monomeric vinylidene cyanide entering into said copolymer to produce the vinylidene cyanide units being a liquid at room temperature and a crystalline solid at 0° C. having a melting point when in purest form of substantially 9.0 to 9.7° C. and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin and by the ability to react at room temperature with butadiene-1,3 to give solid 4,4-dicyanocyclohexene.

2,615,875

COPOLYMERS OF VINYLIDENE CYANIDE AND ISOPROPENYL ESTERS

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 25, 1950, Serial No. 181,571

10 Claims. (Cl. 260—78.5)

1. A copolymer of monomeric vinylidene cyanide and an isopropenyl ester of an organic monocarboxylic acid selected from the class consisting of saturated aliphatic monocarboxylic acids and aromatic monocarboxylic acids in which any carbon to carbon unsaturation is present in a benzene ring, said copolymer possessing essentially the structure

$$—M_1—M_2(M_1—M_2)_xM_1—M_2—$$

wherein each M_1 represents the vinylidene cyanide unit of the structure



and each M_2 represents a unit of said isopropenyl ester of the structure



wherein R_1 is the acyl radical of said organic monocarboxylic acid and x represents a number, said copolymer being a resinous, heat-softenable solid which is soluble at room temperature in dimethyl formamide, but which is insoluble at room temperature in benzene and in acetic acid, and the monomeric vinylidene cyanide entering into said copolymer to produce the vinylidene cyanide units being a liquid at room temperature and a crystalline solid at 0° C. having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid water-insoluble resin and by the ability to react at room temperature with butadiene-1,3 to give solid 4,4-dicyanocyclohexene.

2,615,876

COPOLYMERS OF VINYLIDENE CYANIDE AND VINYL ESTERS OF ALPHA-HALOGEN SUBSTITUTED ACIDS

Harry Gilbert, Cuyahoga Falls, and Floyd F. Miller, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 25, 1950, Serial No. 181,572

13 Claims. (Cl. 260—78.5)

1. A copolymer of vinylidene cyanide and a vinyl ester of an alpha-halo saturated aliphatic monocarboxylic acid, the vinylidene cyanide units in said copolymer being derived from monomeric vinylidene cyanide which is a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin.

2,615,877

COPOLYMERS OF VINYLIDENE CYANIDE WITH 2-MONO-HALOGENATED MONOOLEFINS

Vernon L. Folt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application August 25, 1950, Serial No. 181,588

10 Claims. (Cl. 260—78.5)

1. A copolymer of vinylidene cyanide and a compound of the structure



wherein R is a lower alkyl radical and Y is a halogen atom, the monomeric vinylidene cyanide entering into said copolymer to produce the vinylidene cyanide units therein being a liquid at room temperature and a crystalline solid at 0° C. having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin.

2,615,878

COPOLYMERS OF VINYLIDENE CYANIDE WITH 1,2-DIHALO ETHYLENES

Vernon L. Folt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application October 27, 1950, Serial No. 192,634

13 Claims. (Cl. 260—78.5)

1. A two component copolymer of vinylidene cyanide with a 1,2-dihalo ethylene, the vinylidene cyanide units in said copolymer being derived from monomeric vinylidene cyanide which is a crystalline solid at 0° C., having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterized chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin.

2,615,879

COPOLYMERS OF VINYLIDENE CYANIDE WITH ALPHA-SUBSTITUTED ESTERS OF ACRYLIC ACID

Vernon L. Folt, Akron, and Harry Gilbert, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application October 27, 1950, Serial No. 192,635

10 Claims. (Cl. 260—78.5)

1. A two component copolymer of monomeric vinylidene cyanide and a compound of the structure



wherein X is a member of the class consisting of halogen atoms and cyano groups and R is an alkyl radical, the monomeric vinylidene cyanide entering into said copolymer to produce the vinylidene cyanide units therein being a liquid at room temperature and a crystalline at 0° C. having a melting point when in purest form of substantially 9.0° C. to 9.7° C. and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymeriza-

tion reaction to give a solid, water-insoluble resin and by the ability to react at room temperature with butadiene-1,3 to give solid 4,4-dicyanocyclohexene.

2,615,880

COPOLYMERS OF VINYLIDENE CYANIDE WITH ALKYL ACRYLATES

Vernon L. Folt, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application October 27, 1950, Serial No. 192,636

8 Claims. (Cl. 260—78.5)

1. A two component copolymer of monomeric vinylidene cyanide and an alkyl ester of acrylic acid, said copolymer being a resinous, heat-softenable solid which is insoluble in acetone, the monomeric vinylidene cyanide entering into said copolymer to produce vinylidene cyanide units being a liquid at room temperature and a crystalline solid at 0° C. having a melting point when in purest form of substantially 9.0° to 9.7° C. and being characterizable chemically by the ability to undergo on contact with water at room temperature an instantaneous homopolymerization reaction to give a solid, water-insoluble resin and by the ability to react at room temperature with butadiene-1,3 to give solid 4,4-dicyanocyclohexene.

2,615,881

POLYMETHYLPENTADIENE SYNTHETIC RUBBER

William J. Sparks and Robert M. Thomas, Westfield, N. J., and Donald C. Field, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application October 4, 1951, Serial No. 249,816

10 Claims. (Cl. 260—82.1)

1. The process which consists in subjecting a methyl pentadiene having the methyl substituent on a carbon atom having an olefinic linkage to polymerization at a temperature of about —20° C. to —164° C. in the presence of a Friedel-Crafts catalyst.

2,615,882

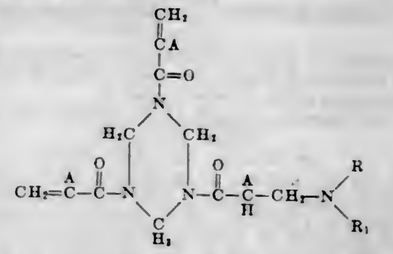
POLYMERS OF ACRYLYLTRIAZINE-ALIPHATIC AMINE REACTION PRODUCTS

Ernst Zerner and Marcel Gradsten, New York, N. Y., and Fred W. West, Peace Dale, R. I., assignors to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application June 10, 1948, Serial No. 32,264. Divided and this application September 22, 1950, Serial No. 186,316

6 Claims. (Cl. 260—88.3)

1. As a new product, a polymer of a compound of the general formula



where A is a member of the group consisting of hydrogen, halogen and a lower alkyl radical,

where R is a member of the group consisting of hydrogen and an alkyl radical, and where R_1 represents an alkyl radical.

2,615,883
PRODUCTION OF LIGNIN, CELLULOSE, AND PENTOSANS

Orland R. Sweeney, Melvin H. Brown, and Lionel K. Arnold, Ames, Iowa, assignors to Iowa State College Research Foundation, Ames, Iowa, a corporation of Iowa

No Drawing. Application September 19, 1947, Serial No. 775,156
16 Claims. (Cl. 260—124)

1. In a process for the treatment of crop by-products containing cellulose, lignins and pentosans to recover all of said constituents from a single batch of raw material, the steps of acid-treating such a product by contacting it with an acid solution to extract the pentosans into the acid solution, withdrawing the pentosan-containing acid solution from the solids, separating the pentosans from the withdrawn solution, digesting said solids in an alkaline solution to remove the lignins, withdrawing the solution from the cellulose, and separating the lignins from the latter solution.

2,615,884
PREPARATION OF A CARDIO-ACTIVE GLYCOSIDE

Harry Rosen, Delaware County, and Casimir T. Ichniowski, Philadelphia County, Pa., assignors to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application June 30, 1949, Serial No. 102,436
8 Claims. (Cl. 260—210.5)

1. A process for the extraction and isolation of cardio-active glycosides from crude sources comprising moistening the leaves of *Digitalis purpurea* with a tannin- and vegetative-insolubilizing agent dissolved in an aqueous medium, extracting the moistened leaves with a solvent comprising a major amount of a lower aliphatic alcohol and a minor amount of water in which the cardio-active principles are soluble, concentrating the resulting first extract to separate a subtantial portion of the alcohol, contacting the aqueous extract with ethylidene dichloride in which the desired cardio-active principles are soluble, washing the ethylidene dichloride solution with an aqueous alkaline solution, separating the washed solution and concentrating to the point where digitoxin precipitates out as the desired product.

2,615,885
PREPARATION OF DEGRADED ALLYL STARCH

Kenneth C. Hobbs, Berwyn, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application January 19, 1948, Serial No. 3,170
10 Claims. (Cl. 260—233.3)

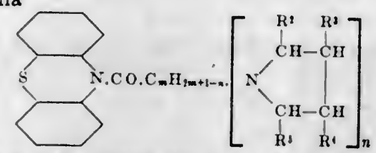
1. In the process of preparing allyl starch soluble in organic solvents, the improvement which comprises reacting alkali starch complex with allyl chloride to form allyl starch, and degrading the allyl starch in the presence of an acidified water-immiscible alcoholic solvent for the degraded allyl starch.

2,615,886
10-PYRROLIDINOACYL-PHENOTHIAZINES AND SALTS THEREOF

Johan Richard Dahlbom and Torsten Karl Ivar Bernhard Ekstrand, Sodertalje, Sweden, assignors to Aktiebolaget Astra, Apotekarnes Kemiska Fabriker, Sodertalje, Sweden, a company of Sweden

No Drawing. Application January 10, 1951, Serial No. 205,426
7 Claims. (Cl. 260—243)

1. A compound of the class consisting of a free base and its salts, said free base having the formula



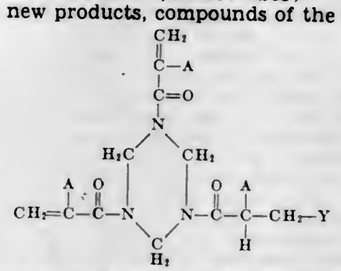
where m is an integer from 1 to 3, n is an integer from 1 to 2, and R^2, R^3, R^4 and R^5 are each selected from the group consisting of hydrogen and methyl groups.

2,615,887
REACTION PRODUCTS OF NITRILES

Ernst Zerner and Mark W. Pollock, New York, N. Y., assignors to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application June 10, 1948, Serial No. 32,263
7 Claims. (Cl. 260—248)

1. As new products, compounds of the formula



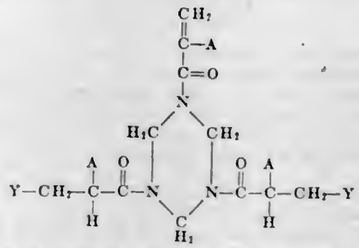
where A is selected from the group consisting of hydrogen, halogen and lower alkyl radicals, and where Y is selected from the group consisting of SO_3-alkali, oxy-alkyl, and amino-alkyl radicals.

2,615,888
REACTION PRODUCTS OF NITRILES

Ernst Zerner and Mark W. Pollock, New York, N. Y., assignors to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application June 10, 1948, Serial No. 32,263. Divided and this application April 13, 1951, Serial No. 220,966
7 Claims. (Cl. 260—248)

1. As a new product, a compound of the formula



where A is selected from the group consisting of

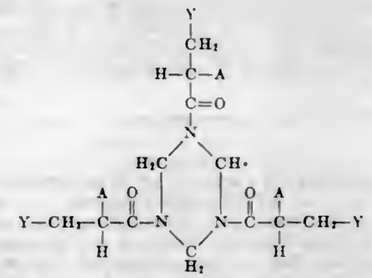
hydrogen, halogen and lower alkyl radicals, and where Y is selected from the group consisting of SO_3-alkali metal, oxy-alkyl and amino-alkyl radicals.

2,615,889
REACTION PRODUCTS OF NITRILES

Ernst Zerner and Mark W. Pollock, New York, N. Y., assignors to Sun Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Original application June 10, 1948, Serial No. 32,263. Divided and this application June 27, 1951, Serial No. 233,933
7 Claims. (Cl. 260—248)

1. As a new product, a compound of the formula



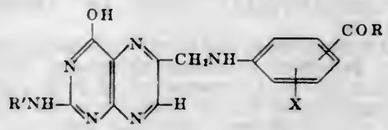
where A is selected from the group consisting of hydrogen, halogen and lower alkyl radicals, and where Y is selected from the group consisting of SO_3-alkali metal, oxy-alkyl and amino-alkyl radicals.

2,615,890
PROCESS OF PREPARING PTERIDINE DERIVATIVES

Angela A. Goldman, River Edge, N. J., and Coy W. Waller, Nanuet, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 11, 1951, Serial No. 205,611
9 Claims. (Cl. 260—251.5)

1. A method which comprises reacting together the perbromide of a 2-acylamino-4-hydroxy-6-methyl pteridine and a member of the group consisting of an aminobenzoic acid and amides thereof, whereby compounds having the general formula:



in which R' is an acyl radical, X is a member of the group consisting of hydrogen and hydroxyl and R is a member of the group consisting of hydroxyl, amino and substituted amino radicals are produced and recovered.

9. N-[4-{[2-amino-4-hydroxy-6-pteridyl)-methyl]amino}3'-hydroxybenzoyl]glutamic acid.

2,615,891
PTERIDINE PERBROMIDES AND METHOD OF PREPARING THE SAME

Angela A. Goldman, River Edge, N. J., and Coy W. Waller, Nanuet, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 11, 1951, Serial No. 205,612
6 Claims. (Cl. 260—251.5)

1. The perbromide of a 2-carboxylic acid acylamino-4-hydroxy-6-methyl pteridine.

3. A method which comprises heating a 2-carboxylic acid acylamino-4-hydroxy-6-methyl pteridine and bromine in a substantially anhydrous solvent whereby the perbromide of a 2-carboxylic acid acylamino-4-hydroxy-6-methyl pteridine is formed and recovering the said product.

2,615,892
PYRIDYL AMINES

Albert M. Clifford, Stow, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application June 24, 1946, Serial No. 678,897
7 Claims. (Cl. 260—293)

1. A method of preparing 2-(2-pyridyl) ethyl amines which comprises heating a mixture comprising as the sole reactive ingredients 2-vinyl pyridine and an amine having a hydrogen attached directly to the amino nitrogen atom until the reaction is substantially complete and separating the resulting product.

2,615,893
PREPARATION OF THIOCARBAMYL THIAZYL MONOSULFIDES

Albert F. Hardman, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application May 6, 1950, Serial No. 160,592
13 Claims. (Cl. 260—293.4)

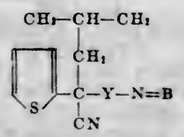
1. A method for the preparation of a thiocarbamyl thiazyl monosulfide which comprises reacting a mixture of a thiazyl disulfide and a thiuram disulfide with an alkali metal cyanide.

2,615,894
N-HETERYLALKYL-ISOBUTYL-(2-THIENYL) ACETONITRILES AND PREPARATION THEREOF

Arlo Wayne Ruddy, Morristown, N. J., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 10, 1951, Serial No. 215,004
7 Claims. (Cl. 260—293.4)

1. A member of the group consisting of (*a*) an N-heterylalkylisobutyl-(2-thienyl) acetonitrile having the formula



wherein Y is a straight chain lower alkylene radical having 2–3 carbon atoms and —N=B is a cyclic tertiary-amino group selected from the class consisting of piperidino, morpholino and pyrrolidino radicals; and (*b*) non-toxic, water-soluble salts thereof.

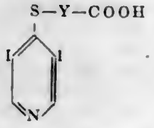
2,615,895

3,5-DIIODO-4-PYRIDYLMERCAPTO-CARBOXYLIC ACIDS AND THEIR PREPARATION

Sydney Archer, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application May 9, 1950, Serial No. 161,010
15 Claims. (Cl. 260—295)

1. A member of the group consisting of a compound having the formula



wherein Y is a divalent hydrocarbon radical of from 4 to 7 carbon atoms; and water-soluble non-toxic salts thereof.

2,615,896

PREPARATION OF 3-PYRIDYL-CARBINOL

George Oswald Chase, Hawthorne, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application January 20, 1950, Serial No. 139,780
5 Claims. (Cl. 260—297.5)

5. A process which comprises subjecting 3-cyano-pyridine in a solution containing water and hydrochloric acid in the molar ratio 1:1.75 3-cyano-pyridine:HCl, and in the presence of a palladium hydrogenation catalyst, to the action of hydrogen.

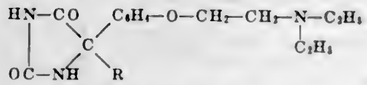
2,615,897

HYDANTOINS CONTAINING BASIC SUBSTITUENTS

Walther Persch, Frankfort-on-the-Main-Hochst, and Adolf P. C. Schmidt, Frankfort-on-the-Main-Fechenheim, Germany, assignors to Cassella Farbwerke Mainkur, Frankfort-on-the-Main-Fechenheim, Germany

No Drawing. Application November 15, 1949, Serial No. 127,508
1 Claim. (Cl. 260—309.5)

As new compounds the hydantoins containing basic substituents and corresponding to the general formula:



wherein R means a lower alkyl group, these compounds being colorless substances having definite melting points and being well soluble in alcohol.

2,615,898

BENZOTHIOPHENE ANTHRAQUINONE DYESTUFFS

Fritz Max, Staten Island, N. Y., and Wilhelm Schmidt-Nickels, Little York, N. J., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 14, 1948, Serial No. 54,582
12 Claims. (Cl. 260—329.2)

1. As a new product, suitable for producing colorations on organic derivatives of cellulose, an α - polyamino - benzothiophene anthraquinone compound, wherein the sulfur of the benzothiophene nucleus occupies a beta-position of the anthraquinone nucleus.

2,615,899

CATALYST AND PROCESS FOR ETHYLENE OXIDE MANUFACTURE

George W. Sears, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 23, 1949, Serial No. 100,982
2 Claims. (Cl. 260—348.5)

2. A fluid-flow catalytic process for making ethylene oxide which comprises suspending the catalyst composition consisting essentially a silver catalyst and, as a diluent, granular artificial graphite, the artificial graphite comprising from about 25 to 75% of the volume of the catalyst composition, in a stream of ethylene and oxygen-containing gas at a temperature of 150° C. to 400° C.

2,615,900

PROCESS AND CATALYST FOR PRODUCING ETHYLENE OXIDE

George W. Sears, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 23, 1949, Serial No. 100,983
4 Claims. (Cl. 260—348.5)

1. A catalyst composition adapted for the oxidation of ethylene to ethylene oxide consisting essentially of metallic silver as an essential catalytic agent, a support for said silver, a metal halide other than a fluoride which is a stable solid at temperatures up to 400° C., the metal halide being present on a weight basis in amount not exceeding about ½ the weight of the metallic silver in the catalyst composition, from 25% to 75% by volume based upon the total volume of the catalyst composition of granular artificial graphite, the silver being in mixture with beryllium oxide which mixture is obtained by coprecipitating a reducible oxygen-containing compound of silver and a corresponding compound of beryllium in a silver:beryllium weight ratio of 10:1 to 5000:1 from a solution of a silver compound and a beryllium compound and reducing the coprecipitate to a mixture of metallic silver and beryllium oxide.

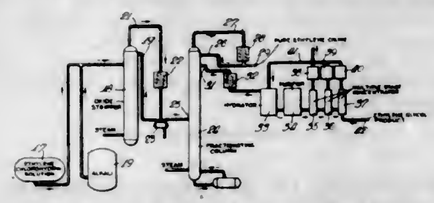
2,615,901

PROCESS OF PRODUCING ETHYLENE OXIDE SUBSTANTIALLY FREE OF ACETALDEHYDE

Paul P. McClellan, Old Greenwich, Conn., assignor to Jefferson Chemical Company, Inc., New York, N. Y., a corporation of Delaware

Application May 11, 1949, Serial No. 92,542
5 Claims. (Cl. 260—348.6)

1. A process of producing ethylene oxide substantially free of acetaldehyde from ethylene oxide containing a substantial proportion of acetaldehyde, which comprises distilling the ethylene oxide containing a substantial proportion of acetaldehyde, taking off a side stream of ethylene oxide containing substantially all of the acetaldehyde, taking off overhead substantially pure ethylene oxide, hydrating the ethylene oxide containing the acetaldehyde to produce a dilute solution of ethylene glycol, and recovering from



the dilute solution ethylene glycol substantially free of acetaldehyde.

2,615,902

CHEMICAL COMPOUNDS AND PROCESSES FOR PREPARING THE SAME

Ralph F. Hirschmann, Westfield, and Norman L. Wendler, Linden, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application October 24, 1950, Serial No. 191,924
15 Claims. (Cl. 260—397.1)

1. The process for producing desoxycholic acid which comprises reacting a member selected from the group consisting of 3,12-diacyloxy-7-ketocholanic acid and esters thereof with an acylating agent in the presence of an acid catalyst to form the corresponding enol acylate, reacting said enol acylate with hydrogen in the presence of a noble metal catalyst to form the corresponding 3,12-diacyloxycholanic acid ester, and hydrolyzing said diacyloxy ester to produce desoxycholic acid.

2,615,903

REDUCTION OF 11-KETOSTEROIDS

James H. Hunter and Robert Bruce Moffett, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application November 7, 1950, Serial No. 194,568
10 Claims. (Cl. 260—397.1)

1. A process for the conversion of an 11-ketocyclopentanoperhydrophenanthrene compound to an 11-methylenecyclopentanoperhydrophenanthrene compound comprising the steps of heating a mixture of the 11-ketocyclopentanoperhydrophenanthrene compound with anhydrous hydrazine and an alkali metal alkoxide in an alcoholic solution for about sixteen hours at about 200 degrees centigrade at superatmospheric pressure in a closed vessel, and isolating the 11-methylenecyclopentanoperhydrophenanthrene compound from the reaction mixture.

2,615,904

PROCESS FOR THE PREPARATION OF 5,7-BISDEHYDROSTEROIDS

Johannes S. Buck, Glenmont, and Benjamin F. Tullar, East Greenbush, N. Y., assignors to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application February 23, 1951, Serial No. 212,520
5 Claims. (Cl. 260—397.2)

1. The process which comprises heating at a temperature between about 80° C. and 200° C. a 7-bromosteroid having a double bond in the 5,6-position with at least an equivalent amount of 1-phenoxypropylene 2,3-oxide.

2,615,905

RECOVERING VALUABLE COMPONENTS FROM OIL BEARING SEEDS, AND PRODUCTS THEREFROM

Walther Georg Heinrich Forstmann, Berlin-Tempelhof, and Guenther Hillmann, Tuebingen, Germany, and Erich M. H. Radde, New York, N. Y.

No Drawing. Application October 30, 1950, Serial No. 193,024. In Germany October 31, 1949
9 Claims. (Cl. 260—412.4)

1. In a method of simultaneously debittering and deoiling lupine seed, the steps comprising extracting said lupine seed with a mixture of two organic solvents and water, said two solvents forming with water a ternary azeotropic mixture, the water content of said solvents-water mixture not exceeding the water content of such a ternary azeotropic mixture, said solvents-water mixture containing a volatile base, and separating the extract from the extracted proteinaceous residue.

2,615,906

SOLID-LIQUID REACTION PROCESSES

Robert Stanton, Denver, Colo.

Application May 22, 1948, Serial No. 28,613
11 Claims. (Cl. 260—437)

1. A process for the preparation of alkylated lead comprising mixing coarsely divided lead alkali metal alloy and alkyl chloride under elevated pressure and then abruptly reducing the pressure and mixing said reactants under high speed agitation induced by fluid propulsion while the movement of the mixture is confined to a closed substantially vertical elliptical path under reaction temperature and pressure conditions, said path having a region of highest compression at the lower end thereof, said reactants being subjected to the greatest centrifugal compression in the region of highest compression resulting from the tangential introduction of a fluid propellant from the outer periphery of said path whereby the chemical reaction is intensified and fresh reactant surfaces are maintained, and separating alkylated lead product from unreacted alkyl chloride and from residue.

2,615,907

SOLID-LIQUID REACTION PROCESSES

Robert Stanton, Denver City, Colo.

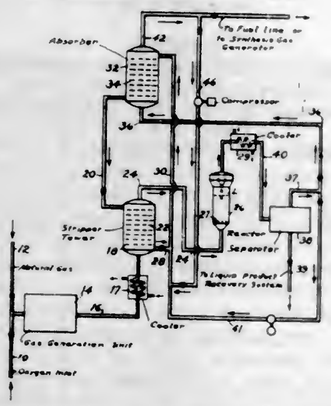
Application March 11, 1947, Serial No. 733,746
11 Claims. (Cl. 260—437)

1. A process for the preparation of alkylated lead comprising mixing coarsely divided lead alkali metal alloy and alkyl chloride under high speed agitation, induced by fluid propulsion, in a substantially vertical elliptical path under reaction temperature and pressure conditions, the reactants being subjected to the greatest centrifugal compression in a region of highest compression at the lower end thereof, said highest compression region resulting from the tangential introduction of a fluid propellant from the outer periphery of said path, whereby the reaction is intensified and fresh reactant surfaces are maintained, and separating the alkylated lead product from unreacted alkyl chloride and from residue.

2,615,908
THIOETHER-HF-COPPER COMPLEX COMPOUNDS
David A. McCaulay, Chicago, Ill., and Arthur P. Lien, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application July 19, 1950, Serial No. 174,618
20 Claims. (Cl. 260—438)

1. A complex compound having the molecular composition 3AS.3HF.CuF in which AS is a saturated hydrocarbon thioether.

2,615,909
REMOVAL OF CARBON DIOXIDE FROM HYDROCARBON SYNTHESIS TAIL GAS
Homer Z. Martin, Cranford, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application July 17, 1948, Serial No. 39,269
3 Claims. (Cl. 260—449.6)

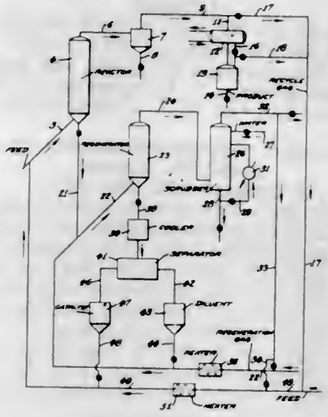


1. In the process wherein gases comprising carbon monoxide and hydrogen in hydrocarbon synthesis proportions are generated in a synthesis gas generation zone, and wherein said gases are reacted under hydrocarbon synthesis conditions in the presence of an iron type hydrocarbon synthesis catalyst in a hydrocarbon synthesis reaction zone, and wherein the gaseous reaction product of the reaction between hydrogen and carbon monoxide comprises carbon dioxide, the steps comprising scrubbing at least a portion of said gaseous reaction product with a solvent for carbon dioxide, passing through the solution thus obtained a stripping gas selected from the class consisting of hydrocarbon synthesis feed gas and natural gas whereby carbon dioxide is stripped from said solution, passing at least a portion of said stripping gas containing stripped carbon dioxide to said process and converting said stripping gas and said carbon dioxide in said process.

2,615,910
PRODUCTION OF SYNTHETIC HYDROCARBONS
Harry E. Cier, Crosby, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of New Jersey
No Drawing. Application October 29, 1948, Serial No. 57,403
4 Claims. (Cl. 260—449.6)

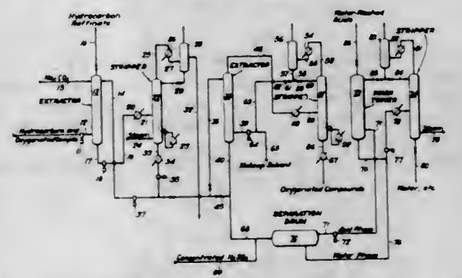
1. A method for producing hydrocarbons and oxygenated organic compounds including the steps of contacting an oxidized iron-type catalyst free from carbonaceous material with a gaseous mixture of carbon monoxide and hydrogen at a temperature in the range between 650° and 750° F. for a time in the range between 30 minutes and 12 hours and then reducing the temperature 50° to 200° F. to form a product comprising a substantial amount of hydrocarbons and oxygenated organic compounds.

2,615,911
SYNTHESIS OF ORGANIC COMPOUNDS
Theodore S. Williams, Asbury Park, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application March 21, 1947, Serial No. 736,323
10 Claims. (Cl. 260—449.6)



1. A continuous process for the hydrogenation of carbon monoxide in the presence of a finely divided hydrogenation catalyst comprising reduced iron as the major component whose fluidization properties are materially impaired by relatively high temperatures and influenced by the character of the fluidization gas which comprises suspending in a fluidized condtion a finely divided reduced iron catalyst containing an alkali in an upward flowing gaseous mixture of hydrogen and carbon monoxide in a reaction zone, maintaining a feed ratio of hydrogen to carbon monoxide between about 0.7:1 and about 10:1, a reaction temperature between about 450° F. and about 750° F., a pressure between about 50 and about 500 pounds per square inch gage, and a linear gas velocity between about 0.1 and about 40 feet per second in said reaction zone, removing a reaction effluent from said reaction zone comprising organic compounds as products of the process, removing partially deactivated catalyst from said reaction zone, regenerating said partially deactivated catalyst by passing said partially deactivated catalyst into a regeneration zone, said regeneration consisting of contact of deactivated catalyst with a reducing gas consisting essentially of hydrogen, suspending said partially deactivated catalyst in said regeneration zone in a fluidized condition in an upward flowing gas consisting essentially of hydrogen in the presence of a diluent material containing no more than a minor proportion by weight of particles greater than 250 microns in size and which constitutes between about 75 and about 95 per cent by weight of the resulting mixture of solids, said diluent material comprising a finely divided inert solid capable of maintaining a fluidized condition under the conditions of regeneration and capable of separation from reduced iron, maintaining a temperature of regeneration between about 1200° F. and about 1600° F. such that deactivated catalyst is substantially reduced, a pressure substantially equivalent to the pressure in said reaction zone and a linear velocity of gas between about 0.1 and about 40 feet per second in said regeneration zone, removing a mixture of reduced iron and diluent material from said regeneration zone, cooling said mixture, separating reduced iron and diluent material, recycling said separated diluent material to said regeneration zone and recycling reduced iron to said reaction zone in which carbon monoxide is hydrogenated.

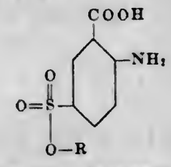
2,615,912
PURIFYING SYNTHETIC OIL-SOLUBLE CARBOXYLIC ACIDS
Vesta F. Michael, Wichita, Kans., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application April 7, 1949, Serial No. 86,035
4 Claims. (Cl. 260—450)



1. In a process for separating and purifying oil-soluble carboxylic acids from an aqueous mixture consisting essentially of carboxylic acid salts derived from organic acids having predominantly from 5 to 18 carbon atoms to the molecule, the steps which comprise liberating the carboxylic acids from said carboxylic acid salts, separately recovering a liquid carboxylic acid phase contaminated with water-soluble inorganic impurities and a liquid water phase containing inorganic impurities, steam stripping said liquid water phase, recovering an acidic aqueous stripper overhead product free of inorganic impurities and of acetic acid, and washing the separated liquid carboxylic acid phase with the stripper overhead product to produce a washed carboxylic acid stream substantially free of inorganic impurities.

2,615,913
AROMATIC SULFONIC ACID ESTERS CONTAINING AN AMINO GROUP
Willy Widmer, Bottmingen, and Alfred Fasciati, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application June 19, 1951, Serial No. 232,448. In Switzerland July 18, 1949
3 Claims. (Cl. 260—456)

1. A compound of the formula



in which R represents a benzene radical containing a carboxy group.

2,615,914
ALKYL CARBONATES OF LACTATES
Chessie E. Rehberg, Glenside, Pa., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application February 8, 1949, Serial No. 75,283
5 Claims. (Cl. 260—463)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

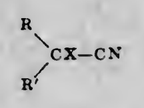
1. A plasticizer of the formula:

$$R—OCOOCH(CH_3)COOR'$$

where R is alkyl and R' is alkoxyethoxyethyl.

2,615,915
HALOGENOALKANENITRILES
Elbert C. Ladd, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 25, 1948, Serial No. 51,311
2 Claims. (Cl. 260—465.7)

1. A method which comprises subjecting an olefinic compound of the formula $CH_2=CHR''$, R'' being selected from the class consisting of hydrogen and acetoxymethyl, and a 2-halogenoalkanenitrile of the formula



to the action of a free radical type polymerization initiator, X being selected from the class consisting of chlorine and bromine; R and R' being selected from the class consisting of chlorine and chloromethyl where X is chlorine and R and R' being selected from the class consisting of bromine, and hydrogen, where X is bromine; and recovering a product of the formula

$$X—[CH_2—CHR'']_nCRR'CN$$

where n is an integer from 1 to 3.

2,615,916
PRODUCTION OF ISOPROPYL N-PHENYL CARBAMATE
Edward M. Allen, Wadsworth, Ohio, assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application January 21, 1949, Serial No. 72,050
8 Claims. (Cl. 260—471)

8. A method of separating isopropyl N-phenyl carbamate from its reaction mixture created by reaction of an isopropyl haloformate with aniline in the presence of water and a base at a temperature at which solid isopropyl N-phenyl carbamate is produced, which comprises heating the reaction mixture to a temperature above the melting point of the carbamate but below the temperature at which the water phase in the mixture boils, thereby forming two immiscible liquid layers, separating the layer containing the product, steam distilling impurities from the product, atomizing the product and chilling it to form a uniform, granular, powder-like product.

2,615,917

PROCESS FOR THE MANUFACTURE OF ACETOACETIC ACID AMIDES

Willy Mueller, Riehen, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application July 30, 1951, Serial No. 239,405. In Switzerland August 18, 1950

5 Claims. (Cl. 260—561)

1. Process for the manufacture of aceto-acetic acid amides, which comprises reacting at least one molecular proportion of diketene with one molecular proportion of a salt of carbonic acid with a member selected from the group consisting of ammonia, monomethylamine and monoethyl amine.

2,615,918

PREPARATION OF ACRYLAMIDE

Walter A. Raczynski, Elkton, Md., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 29, 1951, Serial No. 264,259

5 Claims. (Cl. 260—561)

1. The process of preparing acrylamide which comprises passing ammonia gas through a solution of acrylic anhydride in an inert organic solvent at a temperature of from about 0° C. to about 25° C.

2,615,919

COLOR STABILIZED N,N'-DI-(SEC.-BUTYL)-P-PHENYLENEDIAMINE

Charles B. Biswell, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 9, 1949, Serial No. 80,561

12 Claims. (Cl. 260—577)

1. A composition consisting essentially of N,N'-di-(sec.-butyl)-p-phenylenediamine, which has been made by a reductive alkylation process followed by vacuum distillation and which contains a small proportion of difficultly separable impurities formed in such process that normally tend to cause discoloration upon exposure to air and light, and from about 0.2% to about 5% of a saturated heterocyclic imine of the class consisting of pyrrolidine, piperidine, dipiperidyl, morpholine, thiamorpholine, piperazine, 1,3,5-dithiazine, and such imines containing methyl radical substituents on the imine ring, and which imine, except for the nitrogen, oxygen and sulfur atoms that are members of the heterocyclic ring, consists of carbon and hydrogen atoms.

2,615,920

CONVERSION OF NITROAMINES TO LOWER AMINES

Carl T. Bahner, Jefferson City, Tenn.

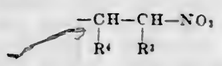
No Drawing. Application September 11, 1947, Serial No. 773,528

8 Claims. (Cl. 260—583)

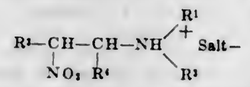
1. In a process for the preparation of amines of the general formula,

$$R^1—NH—R^2$$

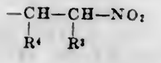
where R^1 is selected from the group consisting of hydrogen, alkyl and nitroalkyl, and R^2 has the structure



in which R^3 and R^4 are selected from the group consisting of alkyl and hydrogen, the steps which consist in heating amine salts of the formula



wherein the salt is that of an acid having an ionization constant at 18° C. of at least about 1.1×10^{-2} and where R^1 is selected from the group consisting of hydrogen, alkyl and nitroalkyl, and R^3 and R^4 are selected from the group consisting of hydrogen and alkyl and R^2 has the structure



in which R^3 and R^4 are selected from the group consisting of hydrogen and alkyl; at a temperature of 20° to 120° C., isolating the lower amine salt and producing the free amine therefrom.

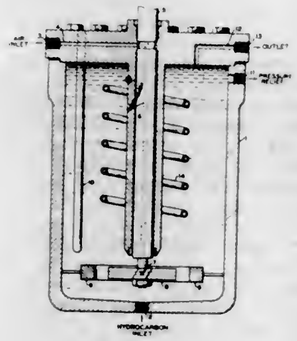
2,615,921

HYDROCARBON OXIDATION

Charles Francis Dougherty, Jr., Bartlesville, Okla., and Charles C. Chapman, Phillips, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware

Application November 7, 1949, Serial No. 126,024

14 Claims. (Cl. 260—586)



1. The process for the oxidation of a hydrocarbon feed selected from a group consisting of C_4 to C_{20} cycloaliphatic hydrocarbons under liquid phase conditions which comprises continuously introducing said hydrocarbon feed to the bottom of a reaction chamber at a rate such that a residence time of said hydrocarbon in said reaction chamber is within the range of 1 to 60 minutes; maintaining a pressure in said reaction zone in the range of 50 to 3000 p. s. i. and sufficient to maintain said hydrocarbons in liquid phase; maintaining said hydrocarbon at an oxidizing temperature within the range of 230° to 450° F. by passing a fluid heat exchange medium circuitously through the hydrocarbon mass in indirect heat exchange therewith; rotating a portion of said hydrocarbon as a liquid mass in a smooth walled mixing zone within the lower portion of said reaction chamber, whereby eddy currents and semi-quiescent zones are substantially avoided; continuously introducing free oxygen outwardly into said rotating liquid mass at a rate such that the molar ratio of oxygen-to-hydrocarbon is maintained within the range of 0.05 to 0.2 whereby said hydrocarbon is oxidized and a homogeneous mixture is produced of a gaseous phase, hydrocarbon soluble phase and hydrocarbon insoluble phase, continuously withdrawing through outlet means in the top of said reaction chamber said homogeneous mixture at a rate such that such reaction chamber is maintained liquid-full, and recovering from said withdrawn homogeneous mixture resulting oxidation products corresponding to said hydrocarbon feed.

2,615,922

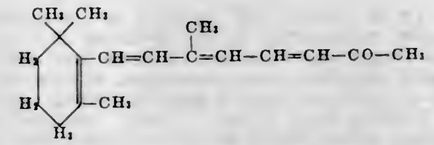
SYNTHESIS OF VITAMIN A AND INTERMEDIATES THEREFOR

Albert Carl Starke, Jr., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

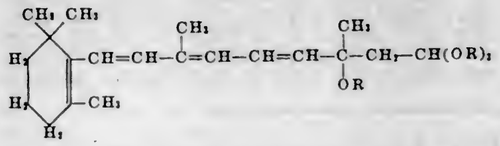
No Drawing. Application December 17, 1949, Serial No. 133,663

11 Claims. (Cl. 260—598)

1. In a process for the synthesis of vitamin A or of an intermediate therefor, the steps which comprise reacting a ketone having the following formula:



with an ortho-carboxylic acid ester to form the corresponding ketal, condensing the resulting ketal with 1 molecular equivalent of a vinyl ether to form an ether acetal having the following formula:



wherein the R's represent alkyl groups, and simultaneously dealcoholizing and hydrolyzing said ether acetal to form a polyolefinic aldehyde which yields vitamin A upon reduction with an aluminum alcoholate of a secondary alcohol.

2,615,923

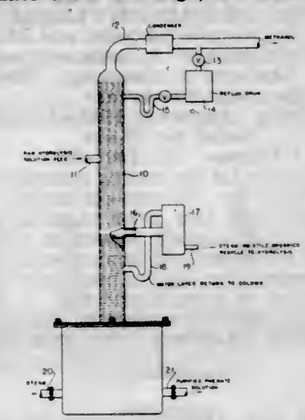
MANUFACTURE OF SODIUM CHLOROPHENATE

Gustav J. Henrich, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia

Application May 2, 1950, Serial No. 159,640

2 Claims. (Cl. 260—623)

1. The method of producing a solution of a sodium chlorophenate which comprises hydrolyzing polychlorobenzene with excess sodium hydroxide in a volatile lower alcohol and water medium, introducing the resulting reaction mixture to a distillation zone, injecting steam into the lower end of the distillation zone, removing the alcohol overhead, removing a water and steam volatile product mixture containing anisols at an intermediate stage of the distillation zone, separating the intermediate product mixture into an organic fraction containing anisols and an aqueous fraction, returning the aqueous fraction to the distillation zone at a stage lower than the intermediate draw-off stage, and recovering the



sodium chlorophenate solution as bottoms from the distillation zone.

2,615,924

METHOD OF PURIFYING GLYCERIN

August C. Reents, Rockford, Ill., assignor to Illinois Water Treatment Co., Rockford, Ill., a corporation of Illinois

Application August 31, 1950, Serial No. 182,561

2 Claims. (Cl. 260—637)



1. The method of purifying glycerin solution which includes the steps of contacting the solution with cation and anion exchange materials and thereafter passing the effluent through a body comprising a substantially homogeneous mixture of a cation exchange material and a strongly basic anion exchange material comprising a quaternized polymerization product of styrene and divinyl benzene containing an ammonium group.

2,615,925

PREPARATION OF OLEFINIC COMPOUNDS

Charles A. Bordner, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 5, 1948, Serial No. 19,172

14 Claims. (Cl. 260—653)

12. A process for producing an olefinic compound containing fluorine which comprises passing a mixture of hydrogen and vapors of a saturated fluorochloro compound containing 2 to 6 carbon atoms, 2 to 12 fluorine atoms and 2 to 12 chlorine atoms, having at least one chlorine atom on each of two adjacent carbon atoms and at least two fluorine atoms on one carbon atom, each carbon atom which carries a single fluorine atom but no chlorine atom being bonded to a carbon atom carrying at least two fluorine atoms, which fluorochloro compound is a member of the class consisting of fluorochloro compounds which consist of carbon, fluorine and chlorine atoms and fluorochloro compounds which consist of carbon, fluorine, chlorine and 1 to 4 hydrogen atoms, through a metallic copper catalyst heated to a temperature of from about 360° C. to about 700° C.

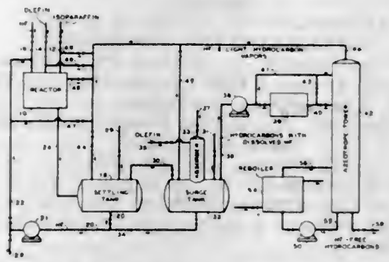
2,615,926
PROCESS FOR PREPARING ORGANIC COMPOUNDS CONTAINING FLUORINE
Anthony F. Benning, Woodstown, and Edmond G. Young, Clarksboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 9, 1949, Serial No. 80,564
2 Claims. (Cl. 260—653)

1. The process for converting saturated fluorochloro-carbons to fluorine-containing unsaturated compounds and other valuable products which comprises passing vapors of CCl_2F_2, together with a substantially equimolecular proportion of hydrogen through an inert tube heated to a temperature of from about 650° C. to about 750° C. while avoiding contact of the hot vapors with catalytic materials, and separating the products.

2,615,927
METHOD FOR CONCENTRATING CAROTENES
Herbert J. Passino, Englewood, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application September 29, 1949, Serial No. 118,713
4 Claims. (Cl. 260—666)

1. A method for concentrating carotene from an oil containing carotene complexes of substantially higher molecular weight than carotene, which includes the steps of: heating said oil to a temperature between 200° F. and 500° F. for a period of 10 minutes to one hour to convert said carotene complexes to carotene forms of substantially lower molecular weight; then contacting said oil with a solvent having a critical temperature less than 450° F. at temperatures in a range of temperatures near the critical temperature in which solubility decreases as temperature increases to fractionate said oil into extract and raffinate phases, said extract phase containing an oil concentrated in carotene; and recovering from said extract phase a concentrate of carotene in a form of substantially lower molecular weight than said original carotene complexes.

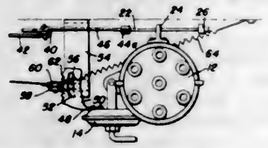
2,615,928
ELIMINATION OF CONDENSER AND ACCUMULATOR IN A HYDROCARBON CONVERSION PROCESS
John V. Jolly, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application September 23, 1948, Serial No. 50,776
9 Claims. (Cl. 260—683.4)



5. In a process for reacting a low-boiling paraffin hydrocarbon in the presence of a catalyst comprising hydrogen fluoride and subsequently distilling in a distillation zone a mixture of hydrogen fluoride and low-boiling paraffin hydrocarbons from a liquid hydrocarbon mixture containing dissolved hydrogen fluoride charged to said distillation zone from said reaction, the improvement which comprises separating directly from said fractional distillation zone a vaporous low-boiling fraction containing a low-boiling paraffin hydrocarbon and hydrogen fluoride, passing said vaporous fraction without intermediate condensation thereof directly into a liquid hydrocarbon-hydrogen fluoride mixture, and passing a hydrocarbon stream from said hydrocarbon-hydrogen fluoride mixture to said distillation zone as said charged mixture.

ELECTRICAL

2,615,929
IGNITION TIMING DEVICE FOR INTERNAL-COMBUSTION ENGINES, INCLUDING DISTRIBUTOR ROTATING AND LOCKING MEANS
Leroy Rider, Lake Charles, La., assignor of one-fourth to Oris Perron, Lake Charles, La.
Application November 4, 1948, Serial No. 58,167
3 Claims. (Cl. 123—146.5)

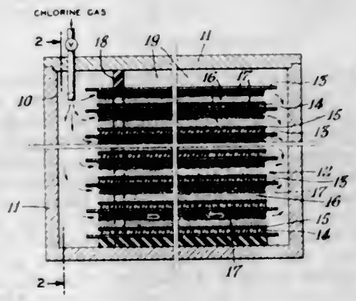


3. An ignition timing device for vehicle engines having a rotatable distributor and a spark adjuster movable with the distributor, said timing device comprising, a push rod, a guide carried by said distributor slidably receiving the rod, a lever for moving the rod, a further lever pivoted at its central portion to the rod, a ring slidable on said rod, a stop on said rod, a link securing one end of said further lever to said ring, means for pivoting said further lever to force said ring against said guide, means for locking the guide clamped between said ring and said stop, an arm fixed to said spark adjuster, means slidably supporting said arm, means connected to said arm for rotating said spark adjuster, said arm having a plurality of spaced teeth, a pawl for locking engagement with the teeth, an operating rod for said pawl, and means normally urging said pawl into locking engagement with said teeth.

2,615,930
METHOD OF MAKING POSITIVE ELECTRODES FOR BATTERY CELLS
Joseph Donald Moulton, West Orange, and Robert F. Enters, Hackensack, N. J., assignors to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
No Drawing. Original application December 13, 1945, Serial No. 634,822, now Patent No. 2,561,943, dated July 24, 1951. Divided and this application July 28, 1950, Serial No. 176,544
3 Claims. (Cl. 136—20)

1. The method of making a positive plate for use in a battery cell which includes applying a paste of silver oxide and water to a metallic gauze plate, heating to decompose said oxide wherefore to leave a coating of metallic silver on said plate, pressing the plate to densify the silver and force it into firm engagement with the grid while maintaining a part of its porosity, and electrolyzing the silver as anode in an alkali solution against an inert cathode to convert substantially all of the metallic silver into Ag_2O_2 tightly adhering to the grid.

2,615,931
HEAVY DUTY GAS DEPOLARIZED DRY BATTERY
Marcus R. Hatfield, Lakewood, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application December 7, 1948, Serial No. 63,945
15 Claims. (Cl. 136—86)

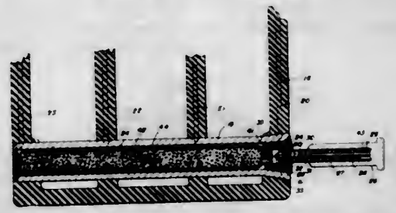


1. In a method of treating a deferred action, gas depolarized type dry cell having a porous cathode provided with a wet mix portion in which the gaseous depolarizer enters into aqueous solution and a drier porous cathode diffuser portion into which the depolarizing gas enters largely before it contacts with the moisture in the wet mix portion of the cathode, said method including storing said cell in an atmosphere of an inert gas prior to its activation, the combination therewith of the improvement for increasing the output of said cell which comprises flushing out any gas pockets of inert gas from the cathode diffuser portion by flowing depolarizing gas in a stream through said diffuser portion on activation of said cell.

2,615,932
PROCESS FOR MANUFACTURING POROUS CARBON ELECTRODES
Adolf Marko and Karl Kordesch, Vienna, Austria, assignors to Olga Burkli, Zurich, Switzerland
No Drawing. Application February 28, 1950, Serial No. 146,928. In Austria March 24, 1949
6 Claims. (Cl. 136—122)

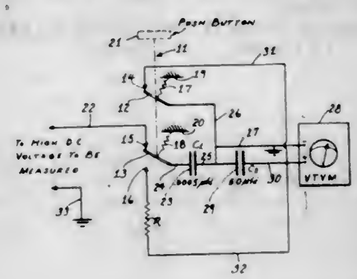
1. In a process for manufacturing porous carbon electrodes for use in oxygen depolarized primary cells the steps of impregnating porous carbon bodies with a solution of at least two heat-decomposable salts having different cations selected from the group consisting of iron, cobalt, nickel, manganese, chromium, copper, silver, gold, platinum, vanadium, thorium and the rare earths, said salts being capable of acting as oxidising agents on the carbon, and heating the impregnated carbon bodies to temperatures adapted to decompose the said salts with the formation of catalysts within said carbon bodies.

2,615,933
BATTERY HEATING SYSTEM
David J. Carlson, Vienna, and Harold T. Decot, Arlington, Va.
Application September 29, 1949, Serial No. 118,662
10 Claims. (Cl. 136—161)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



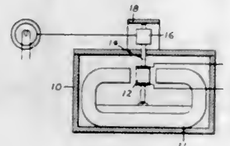
8. A battery casing having a heat conducting system comprising a heat transfer means contained wholly within the battery and extending into the electrolyte chamber thereof, and an open ended tube in contact with said transfer means and having its ends located at different parts of the battery, said transfer means functioning to transfer heat to or from the battery electrolyte in accordance with the temperature applied to said transfer means and said tubing providing a convection induced circulation path for the battery electrolyte.

2,615,934
HIGH VOLTAGE MEASURING APPARATUS
Leo Mackta, Brooklyn, N. Y.
Application February 9, 1950, Serial No. 143,180
3 Claims. (Cl. 171—95)



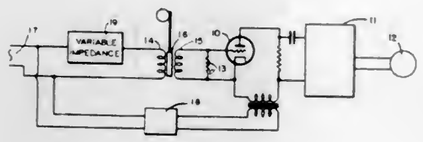
1. A high voltage measuring apparatus of the character described comprising switch means including a pole and a pair of contacts associated therewith, one contact being adapted to be connected to a terminal of the voltage source to be measured, a first condenser of relatively high voltage rating, a second condenser of relatively high capacity, a high impedance voltmeter connected across said second condenser, circuit means connecting said first condenser between said pole and one terminal of said voltmeter, means for connecting said one terminal of the voltmeter to the other terminal of the voltage source, circuit means connecting the other contact of said switch means to the remaining terminal of the voltmeter, and means arranged to short-circuit the second condenser responsive to the engagement of said pole with said one contact, to completely discharge said second condenser prior to the transfer of a charge thereto from the first condenser.

2,615,935
VIBRATION INSENSITIVE GALVANOMETER DEVICE
Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Original application March 8, 1946, Serial No. 653,185. Divided and this application May 12, 1950, Serial No. 161,642
3 Claims. (Cl. 171—95)



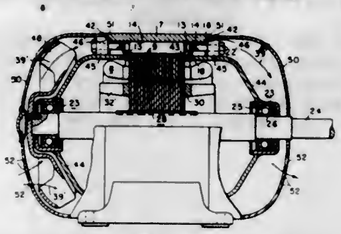
1. A galvanometer comprising at least two movable coil assemblies having substantially identical dynamic characteristics, mirrors carried by and rotatable with said coil assemblies for reflecting a beam of light from one mirror to the other and from the latter to a surface, and means connecting both of said coil assemblies to a source of electrical energy to rotate said coil assemblies in opposite directions upon change of the value of the electrical energy.

2,615,936
VARIABLE TRANSFORMER CONTROL
Paul Glass, Chicago, Ill., assignor to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application March 31, 1949, Serial No. 84,642
3 Claims. (Cl. 171—119)



3. In an alternating voltage circuit comprising plural variable transformers, each having a primary winding, a secondary winding inductively coupled to its primary winding, and mechanically operable means for varying the degree of coupling between its primary and secondary winding; means for varying the degree of change of amplitude of secondary voltage responsive to operation of the coupling-varying means of at least one said transformer while maintaining constant its phase when the primaries of said transformers all are energized by phase synchronized voltages, comprising a different variable impedance connected in series with the primary winding of each of said transformers, said impedances respectively having values sufficiently large relative to the primary windings with which they are connected to maintain a fixed phase of voltage applied to said primary winding.

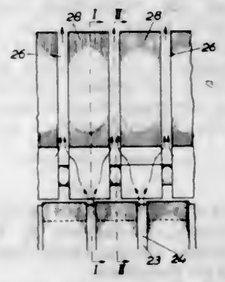
2,615,937
FAN-COOLED MOTOR
Leon R. Ludwig, Pittsburgh, Pa., and Theodore C. Fockler and William H. Formhals, Buffalo, N. Y., and Howard T. Walton, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application August 15, 1946, Serial No. 690,628, now Patent No. 2,571,907, dated October 16, 1951. Divided and this application February 28, 1951, Serial No. 213,091
8 Claims. (Cl. 171—252)



1. A fan-cooled dynamo-electric machine comprising a strong, rigid frame-ring having an accurate radial-register surface at each end thereof, a stator-core comprising a rigidly held stack of stator-laminations fitting, at a plurality of spaced points about the outer periphery of the stator-laminations, within the inside of the frame-ring, the stator-laminations being spaced from the inside of the frame-ring at other peripheral points, the stator-core having an accurate axial-register surface at each end thereof, a stator-winding carried by the stator-core, two imperforate brackets removably mounted on the frame-ring, one at each end, each imperforate bracket having no ventilating-hole therein and having an accurate peripheral axial-register surface fitting against the corresponding axial-register surface of the stator-core, said imperforate brackets having no radial register with the stator-core but having peripheral lugs having radial-register surfaces having an intermittent radial register with the respective radial-register surfaces of the frame-ring, bearings carried by said imperforate brackets, a rotor-member having a shaft which is supported by said bearings and having internally mounted fan-means for at least ventilating the end-turns of the stator-winding at both ends of the stator-core, said rotor-member further having externally mounted fan-means, removably mounted on the shaft on the outside of at least one of the bearings, for causing a ventilating gas to flow axially within the space between the inside of the frame-ring and the periphery of the stator-laminations, and two hoods, each having a ventilating-hole and having a peripheral part which makes a substantially continuous fit at its end of the frame-ring.

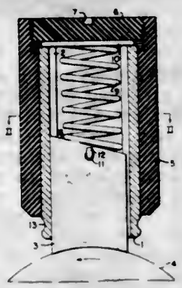
2,615,938
VENTILATION SYSTEM FOR ELECTRIC MACHINES
Sven Gynt, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a corporation of Sweden
Application June 21, 1951, Serial No. 232,725
3 Claims. (Cl. 171—252)

1. A ventilation system for electric machines comprising radially extending ventilation ducts in the stator core of the machine, said ducts extending inwardly from the outer periphery of the core and terminating a distance from the air gap of the machine, ventilation slots in said core extending axially between said ducts and commencing at the air gap and extending radially outwards a distance past the bottom of said ventilation ducts, said ducts and slots being in



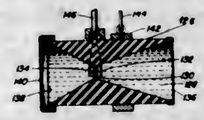
communication with each other at their bottoms, and radially extending slots located at the inner periphery of the stator core and interposed between said ventilation slots and accommodating the normal stator winding.

2,615,939
BRUSH MECHANISM
William H. Mitchell, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 2, 1950, Serial No. 187,909
4 Claims. (Cl. 171—323)



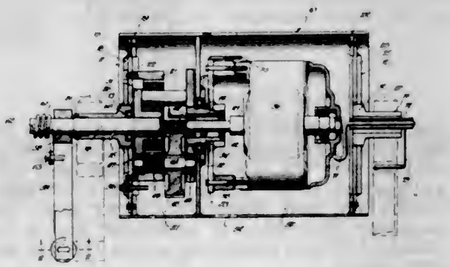
1. In combination, a tabular brushholder having a rectangular axial slot therein, a brush disposed in said slot, said brush having its upper surface inclined with respect to the axis of the brushholder and of the brush, a cap closing the top of the brushholder, and a compression spring in the slot directly engaging the inclined upper surface of the brush, said spring being attached to the brush, the pressure of the spring on the inclined upper surface of the brush holding the brush against one side of the brushholder throughout the length of the brush.

2,615,940
ELECTROKINETIC TRANSDUCING METHOD AND APPARATUS
Milton Williams, Houston, Tex.
Application October 25, 1949, Serial No. 123,494
5 Claims. (Cl. 171—330)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A container, an electrokinetic assembly within said container including a porous plug and a pair of electrodes, one on each side of said plug, a fixed quantity of fluid confined within said container in contact with said electrodes in a position to oscillate, in part at least, through the porous plug of said assembly, a surface of said fluid located in that portion of the fluid disposed to one side of said plug being in mechanical-energy transmitting relation with a region external to said container, and means in contact with the portion of the fluid on the other side of said plug for applying a restoring force to said fluid upon displacement of said fluid relative to said electrokinetic assembly.

2,615,941
MOTORIZED PULLEY
Daniel A. Schrock, Boise, Idaho, assignor to Idaho Sprocket and Machine Works, Boise, Idaho, a co-partnership
Application January 9, 1951, Serial No. 205,064
3 Claims. (Cl. 172—36)

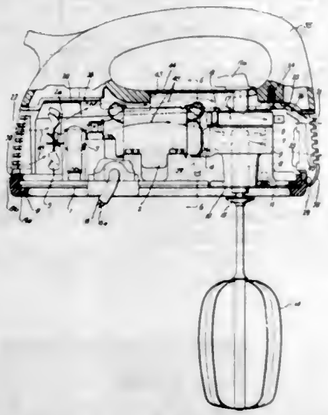


1. In a motorized pulley of the type having an exterior rotatable drum and a stationary driving motor housed therein, means for relieving the motor shaft from lateral loads imposed upon the drum comprising, in combination, a pair of end plates each rigidly secured to the drum and having a central hub therein, with hollow stub shafts fixed on the end plates and projecting outwardly from the hubs thereof; together with a free floating driving unit within said drum and a transverse bulkhead between the end plates of the drum supporting said driving unit; the driving unit comprising a speed reducer having a frame consisting of a pair of end plates carrying a torque shaft and motor mounting sleeve respectively, with a countershaft extending between said end plates and having a gear and pinion thereon; the said torque shaft extending through one of said stub shafts and the sleeve extending through the bulkhead and supporting an electric motor fixedly mounted on the end of the sleeve in outboard relationship with the speed reducer and on the other side of the bulkhead therefrom, whereby all lateral forces imposed on the pulley drum are borne directly by the stub shafts, and said motor and speed reducer are self-aligning and wholly free of lateral strains.

2,615,942
VENTILATION AND COOLING OF HOUSEHOLD MIXERS
Carl A. Edman, Fairfield, Conn., assignor to General Electric Company, a corporation of New York
Application April 17, 1951, Serial No. 221,390
2 Claims. (Cl. 172—36)

1. In a kitchen mixer, a base plate, an electric motor mounted on the top side of the base plate which extends longitudinally thereof and is po-

sitioned entirely within the confines of the base plate, a heat insulating resilient grommet which extends around the base plate and is secured to the edge thereof, said grommet having a portion which extends to the underside of the base plate to form a resilient support for the mixer and a portion which projects above the base plate and



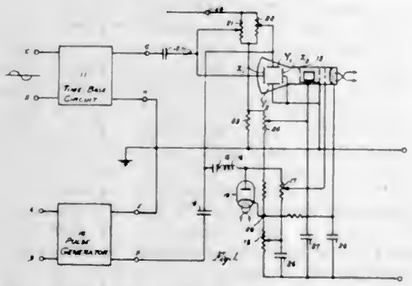
has walls shaped to define an upwardly facing seat which surrounds the base plate, a casing positioned over the motor having side, end and top walls which house the motor and a bottom edge resting on said upwardly facing seat, means fastening the casing to said base, and a handle attached to and extending across the top wall of said casing.

2,615,943

APPARATUS FOR COMPARING FREQUENCIES OF ELECTRIC OSCILLATIONS

Geoffrey George Gouriet, Surbiton, and Reginald Harry Hammans, Petts Wood, England

Application January 23, 1947, Serial No. 723,788
In Great Britain August 1, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires August 1, 1965
2 Claims. (Cl. 172—245)



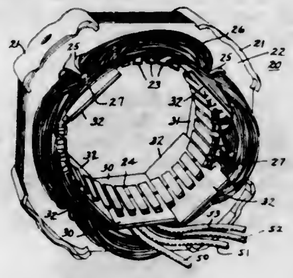
1. Apparatus for comparing the frequencies of a first and a second oscillation comprising a cathode ray tube having first and second deflecting means for deflecting the cathode ray of said tube in a first and a second co-ordinate respectively and a control electrode for controlling the intensity of said cathode ray, a generator of oscillations of saw-tooth waveform, means for applying said first oscillation to said generator to produce an oscillation of stepped saw-tooth waveform, each cycle of said oscillation of stepped saw-tooth waveform having a plurality of equally-spaced periods of constant amplitude joined by periods of progressively changing amplitude, means for applying said oscillation of stepped saw-tooth waveform to said first deflecting means, a pulse generator for generating pulses having durations which are small relatively to their recurrence period, means for controlling the recurrence frequency of the pulses from said pulse generator in accordance with the frequency of said second oscillation and means for applying said pulses to said second deflecting means to deflect the cathode ray in said second co-ordinate and to said control electrode to control the intensity of the cathode ray.

2,615,944

DYNAMOELECTRIC MACHINE

Wilbur L. Carlson, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 6, 1951, Serial No. 204,755
3 Claims. (Cl. 172—278)



1. A member for dynamo electric machines having a core provided with a plurality of slots, certain of said slots adapted to receive running coil windings and certain of said slots adapted to receive starting coil windings only and certain of said slots adapted to receive both running coil and starting coil windings; a first set of spaced flat wedge members including a plurality of slot wedge fingers for closing the slots containing only the running winding and holding said windings in place, said wedges having a flat web portion joining the finger at one end exterior to the said member, said web member supporting the end turns of the starting windings; a second set of flat wedge members including a plurality of slot wedge fingers for closing the remaining slots and holding the windings therein in place, each of said second set of wedge members having a web portion joining the fingers at one end of the member, all of said webs of said wedge members having longitudinally straight edges exterior to the said member, each straight edge being in frictionally abutting relationship with its adjacent straight edge whereby all wedge members are locked against sidewise movements.

2,615,945

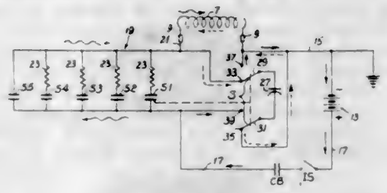
FIELD CONTROL OF ELECTROMAGNETIC COUPLINGS

Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware

Application September 20, 1950, Serial No. 185,894
1 Claim. (Cl. 172—284)

A control for an electromagnetic coupling having a field coil, the control comprising a source of direct current, an exciting circuit connecting the source of direct current with the field coil, a capacitor and a transfer switch, the transfer switch being adapted to connect the capacitor

to the source of direct current for charging when the exciting circuit is closed, and to connect the capacitor to the field coil for discharge therethrough when the exciting circuit is interrupted, and a current modulator connected in said exciting circuit, the current modulator comprising a plurality of resistance elements, each resistance element having normally open contact means as-



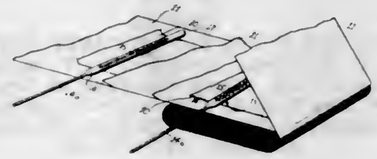
sociated therewith, means for sequentially operating said contact means to close the exciting circuit with a maximum resistance initially connected therein and progressively to reduce the amount of said resistance, and control means correlating the operation of the current modulator contact means with the actuation of the transfer switch progressively to open said contact means prior to connection of the capacitor with the field coil.

2,615,946

FLAT TERMINAL ELEMENT FOR CONDENSER FOIL

Jacob Katzman, New York, N. Y.

Continuation of application Serial No. 564,013, November 18, 1944. This application July 16, 1948, Serial No. 39,063
8 Claims. (Cl. 173—324)



1. In an electrical condenser a strip of metal foil and a terminal member engaging said foil, said member having a pitted zone frictionally engaging a portion of said foil and a smooth zone adjacent said pitted zone engaging said foil, the peaks of said pitted zone and said smooth zone being in the same plane.

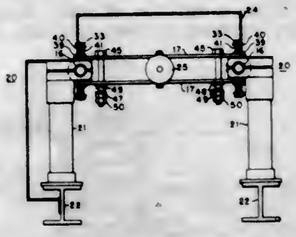
2,615,947

IMPEDANCE MATCHING APPARATUS

Francis L. Macaluso, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 30, 1948, Serial No. 62,755
7 Claims. (Cl. 173—324)

5. A transmission line tuning stub comprising a pair of substantially parallel conductors, a short-circuiting member connected between said conductors, said short-circuiting member including a first and second sliding contact member respectively positioned on opposite sides of each conductor, a first cross-bar means, a first resilient coupling means connected between said first cross-bar means and each of said first sliding contact members, a second cross-bar means, a second resilient coupling means connected between the second cross-bar means and each of said second sliding contact members, each of said resilient coupling means comprising fastener members fixedly connected to the respective contact members and movable relative to the respective cross-bar means with resilient



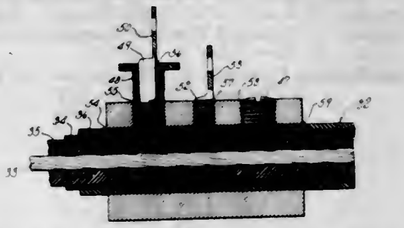
spring members adjacent each of said fastener members and operative therewith, and fastener means for drawing said first and second cross-bar means together to hold the respective sliding contacts in position on opposite sides of each conductor.

2,615,948

COUPLER FOR WAVE TRANSMISSION LINES

Ira Kamen, New York, N. Y., assignor to Commercial Radio-Sound Corp., New York, N. Y., a corporation of New York

Application November 3, 1949, Serial No. 125,306
10 Claims. (Cl. 173—324)



2. Apparatus for coupling to a transmission line of the inner and outer surrounding conductor type without substantially affecting the spacing of said conductors, comprising a pair of blocks, means to clamp said blocks in opposing relation around and embracing said line, one of said blocks having a preformed tool-guiding bore extending therethrough transversely to the line to receive a tool for forming a passage-way extending radially transversely through the outer conductor of the line and in transverse radial alignment with said inner conductor to permit a contact member to extend through said bore and said passage-way, a contact member mounted in said bore and passage-way in conductive contact only with the inner line conductor, said blocks including means extending into conductive electrical contact only with the outer line conductor.

2,615,949

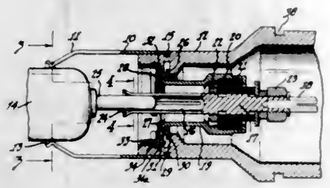
COAXIAL SOCKET CONTACT

Theodore W. Hecking, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application April 30, 1947, Serial No. 744,888
3 Claims. (Cl. 173—328)

1. A coaxial socket device comprising two axially displaced coaxial tubular members for receiving axially displaced coaxial conductors, the outer of said tubular members including

means on its inner surface for supporting the inner of said members, a flange on said inner of said members, said flange being spaced from each end of said inner of said members and electrically insulated therefrom, a surface of said flange engaging a surface of a portion of said means, a member spaced a, predetermined distance from a surface of said flange opposite to said first-named surface thereof, and an ad-



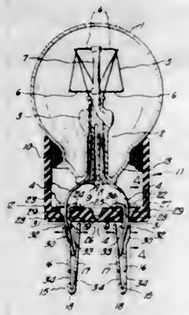
ditional member engaging a surface of an additional portion of said means and constrained against movement thereby, said additional member supporting said first-named member against movement axially of said device, whereby said inner of said members is slidingly mounted for transverse movement only, said transverse movement being in a plane at right angles to the longitudinal axis of the tubular members.

2,615,950

ELECTRIC TERMINAL CONNECTOR

Fredrick S. Lamb, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application February 1, 1950, Serial No. 141,788
9 Claims. (Cl. 173—361)



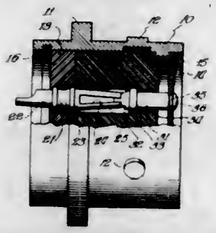
1. An electrical connector comprising a body member provided with a one-piece insulative wall portion having an opening therethrough, and a contact prong comprising a strip of metal secured to the said wall and extending outwardly therefrom and bent back upon itself to form a two-legged prong, said prong having portions thereof outwardly adjacent said wall spaced apart laterally of the prong to provide a space therebetween positioned directly opposite and opening toward the said wall opening so as to receive a current conductor upon its being inserted straight through the said wall opening from the inner side of said wall, said prong portions being relatively deformable to pinch the said conductor therebetween, one of the legs of said prong being anchored in said wall against transverse movement and the other of said legs being transversely movable toward and coextensive with at least the major portion of the protruding length of the anchored leg.

2,615,951

SPRING LOADED ACTION CONTACT

Curt W. Klostermann, Chicago, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois

Application May 12, 1950, Serial No. 161,648
4 Claims. (Cl. 173—363)



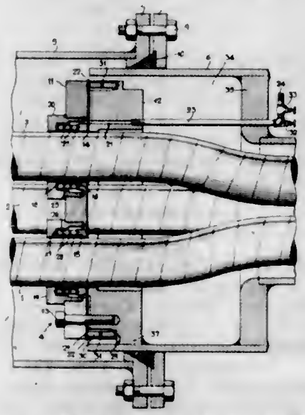
2. In an electrical connector, in combination, a pair of coacting contact elements longitudinally shiftable with respect to each other, one of said elements comprising a mounting shank having a conical head with an abutment at its base, the other contact consisting of a mounting shank having an integral hollow sleeve with a central bore therein, with the wall surfaces of said sleeve split to provide a plurality of straight spring tines of arcuate cross section throughout their length and integral with the sleeve and mounting shank; said tines tapering inwardly from the mounting shank toward the conical head of the other contact element, with the extreme ends of the tines engaging the tapered surfaces of the conical head of said other contact element and exerting a radial spring tension inwardly thereon and producing a cam action urging said contact elements away from each other.

2,615,952

STOP FOR FLUID FILLED CABLE SYSTEMS

Ray C. Rifenburg, Brooklyn, N. Y., assignor to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York

Application May 13, 1950, Serial No. 161,791
7 Claims. (Cl. 174—23)



1. A stop construction for temporarily preventing the flow of fluid from within one section to another of a cable arrangement of the type having a plurality of insulated conductors contained within a pipe or the like filled with fluid, such stop comprising rigid barrier means having apertures therein for permitting each of the insulated conductors normally to pass therethrough with clearance space around each, a generally

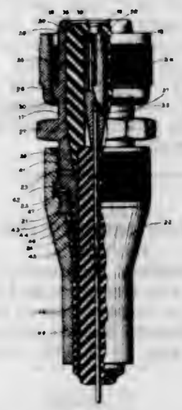
annular, flexible diaphragm secured around the periphery of each of said apertures, a generally annular, flexible diaphragm secured around the periphery of said barrier means, said barrier means being formed with generally annular cavities surrounding each of said first-named diaphragms and an annular cavity inside said second-named diaphragm, and fluid connection means communicating with said cavities and adapted to extend to the exterior of the pipe, said cavities and connection means being fluid-tight whereby upon applying fluid under pressure to said connections, the said first-named diaphragms will be expanded inwardly for embracing said insulated conductors and said second-named diaphragm will be expanded outwardly for engagement with the interior walls of the pipe.

2,615,953

COAXIAL CABLE COUPLING

Amory H. Waite, Jr., Long Branch, N. J.

Application March 16, 1943, Serial No. 479,314
5 Claims. (Cl. 174—88)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



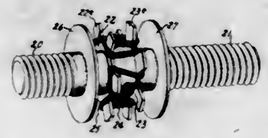
1. A connector for coaxial cable, comprising a sleeve member having the outer surface of one end thereof tapered and being externally threaded inwardly of the tapered part, means positioned at its other end to couple the sleeve to an outer conductor of an inserted coaxial line, a longitudinally bored dielectric spacer within said sleeve, concentric means within the spacer to connect with the inner conductor of an inserted coaxial line, an internally threaded locking collar adapted to receive the tapered end of said sleeve member free therewithin and to engage the thread on said sleeve member, said locking collar having a concentric annular groove formed on its inner surface positioned so as to surround the tapered end of the sleeve member, and a clamp ring rotatably fitted within said locking collar and having an extended flange projecting into and loosely disposed in said annular groove, said inner surface of the locking collar at both sides of the groove being of less diameter than the outer diameter of said flange, said clamp ring having an inner surface confronting the tapered surface of the sleeve member and said two surfaces named being arranged and adapted to clamp therebetween the outer conductor of a coaxial cable end inserted in the locking collar at a locking position of the locking collar on said sleeve member.

2,615,954

STANDOFF INSULATOR STUD

Robert E. Mungovan and Howard W. Orr, Fort Wayne, Ind., assignors to General Electric Company, a corporation of New York

Application August 24, 1951, Serial No. 243,522
2 Claims. (Cl. 174—181)



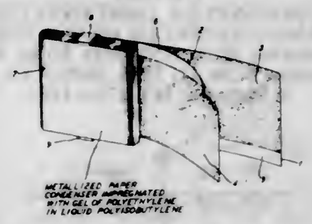
1. A stand-off insulator stud comprising a pair of axially aligned annular threaded metallic members, each of said members terminating at the inner end thereof in a disk having radially outwardly extending projections, a preformed insulating member arranged between the inner ends of said disks, a binding cord laced about said projections to hold said metallic members together with said preformed insulating spacer interposed therebetween, and a plastic material extending around inner end portions of said metallic members, around said projections, around said preformed insulating spacer, and around said binding cord.

2,615,955

IMPREGNATED ELECTRICAL CONDENSER

David A. McLean, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 29, 1949, Serial No.135,719
10 Claims. (Cl. 175—41)



1. An electric condenser comprising a pair of electrodes separated by a paper spacer impregnated with a soft plastic gel of a fusible, normally solid hydrocarbon polymer in a viscous, normally liquid hydrocarbon polymer.

2,615,956

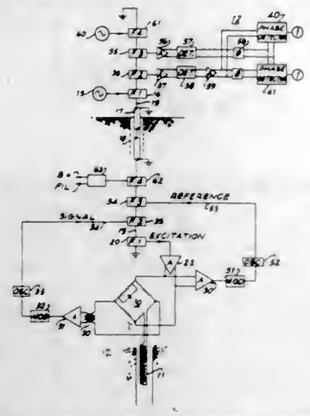
BOREHOLE TELEMETERING

Robert A. Broding, Dallas, Tex., assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application January 5, 1951, Serial No. 204,676
4 Claims. (Cl. 175—182)

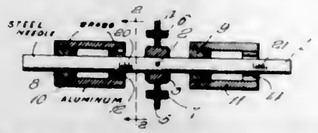
1. In a well logging system for producing a signal at an exploring bridge network located in a well bore for application to phase detectors at the surface of the earth the combination therewith which comprises means extending between said bridge and said phase detectors including a cable adapted to extend to variable depths in a well bore for movably supporting said network in said well bore, a source of alternating current at the surface of the earth connected to said cable means for exciting said bridge network, frequency modulating means connected between

the output terminals of said bridge network and said cable for applying to said cable a frequency modulated signal dependent upon the output of said bridge network, a second frequency modulating means connected between the input terminals of said bridge network and said cable for applying to said cable a second frequency mod-



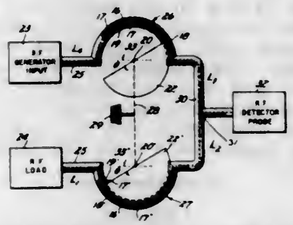
ulated signal dependent upon the input to said bridge network, and means interconnecting said cable and said phase detectors for demodulating said signals to produce bridge input and bridge output signals at the surface of the earth that have phase relations independent of variations in the impedance of said cable as the depth of said bridge in said well bore is varied.

2,615,957
TEMPERATURE COMPENSATION MAGNETOMETER INDICATOR
Frederick W. Lee, Owings Mills, Md.
Application June 17, 1948, Serial No. 33,512
8 Claims. (Cl. 175—183)



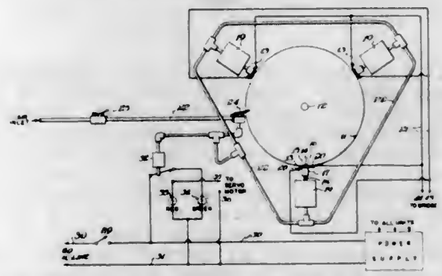
8. In a temperature compensation system for magnetometer indicators, a magnetic needle, pivotal mounting means for said magnetic needle comprising a central hub member having an internal bore for the passage of said magnetic needle, pivot means extending through said bore and said magnetic needle for keying said magnetic needle to said hub member, said hub member including a pair of externally screw-threaded cylindrical portions extending longitudinally of said needle, adjustable weights internally screw-threaded for engaging the external screw threads on said cylindrical portions of said hub for dynamically balancing said needle with respect to one plane, radially extending adjustable means connecting with said hub member for dynamically balancing said needle in other planes, and elongated cylindrical members concentrically mounted on each end of said magnetic needle intermediate the extremities thereof and the screw-threaded termini of said hub member and adjustable in longitudinal position between the pivotal mounting means and each end of the needle, said means having a differing temperature coefficient of expansion than the temperature coefficient of expansion of said magnetic needle.

2,615,958
IMPEDANCE-MATCHING AND STANDING-WAVE-RATIO MEASURING SYSTEM
Edwin N. Phillips, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application October 20, 1949, Serial No. 122,428
16 Claims. (Cl. 175—183)



10. In combination, a high frequency wave generator, a high frequency load circuit, a wave transmission line for connecting the generator to the load, and means to determine the standing-wave-ratio on said line, the last-mentioned means comprising a pair of line stretchers serially connected in said line each stretcher having a length adjusting element, means including a single adjustable member mechanically coupled to said adjusting elements to adjust said elements to vary simultaneously the respective lengths of said stretchers in opposite senses, and a radio frequency detector connected to said line between said stretchers.

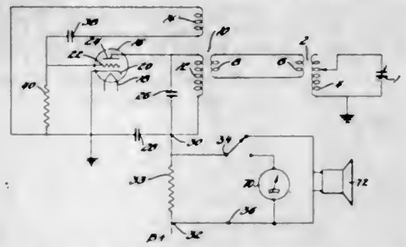
2,615,959
APPARATUS FOR MEASURING MOISTURE IN YARN
John Robert Spalding, Kenmore, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
Application February 8, 1951, Serial No. 210,052
1 Claim. (Cl. 175—183)



Apparatus for determining the moisture content of yarn in packages by measuring the electrical resistance of the yarn which comprises two electrodes arranged to be applied to a yarn package in closely spaced relationship to form a circuit which includes the resistance of a sample of yarn material of predetermined thickness, fluid-operated means for applying said electrodes to the yarn package under pressure, measuring means for determining the moisture content of the sample including a self-balancing, high resistance bridge circuit connected to said electrode circuit and cooperating means for indicating values corresponding to the moisture content of the sample when the bridge is balanced, fluid-operated switch means for supplying power to said measuring means only while said electrodes are in position against a yarn package, a conduit for supplying

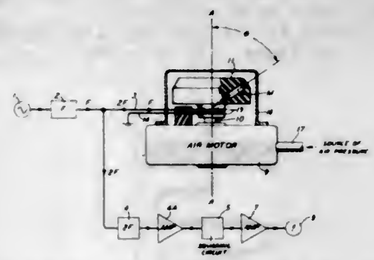
fluid under pressure to both of said fluid-operated means, and a fluid valve in said conduit adapted to be opened by the placing of a yarn package in position for test.

2,615,960
VARIABLE CAPACITANCE DEVICE
Wesley S. Erwin, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 4, 1946, Serial No. 707,736
11 Claims. (Cl. 175—183)



8. An instrument for measuring capacitance directly including an electronic oscillator having a tuned plate circuit, and a grid circuit inductively coupled to said plate circuit, a second tuned circuit having an inductance connected in parallel with a capacitance to be measured, means for inductively coupling said tuned plate circuit and said second tuned circuit comprising a low impedance link having one winding coupled to said tuned plate circuit and a second winding coupled to said second tuned circuit, said last mentioned circuit being pretuned to a frequency slightly different from that of said tuned plate circuit and reflecting resistance into said plate circuit to cause a change in the plate current thereof, and means in said plate circuit responsive to said plate current for indicating directly the value of capacitance being measured.

2,615,961
MAGNETIC TESTING SYSTEM
Winthrop J. Means, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 7, 1946, Serial No. 714,765
9 Claims. (Cl. 175—183)

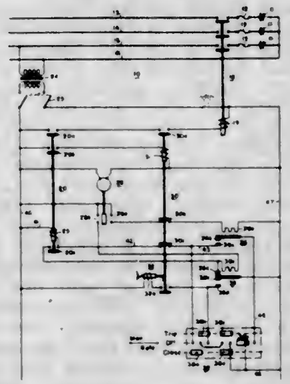


9. A system for indicating the field strength of magnetism comprising in combination a magnetometer core of magnetic material having a principal magnetic axis, at least one winding on said core, a source of alternating current coupled to a winding on said core whereby even order harmonic voltages are produced therein of magnitudes proportional to the product of the field strength and the cosine of the angle formed between the principal axis of the core and the direction of a magnetic field, an electric squaring means coupled to a winding on said core and responsive to a selected one of said even order harmonic voltages for producing a current varying as the square of said selected voltage, an indicating means coupled to the squaring means and responsive to said current, a support for said core comprising the rotor of a gyroscope arranged for rotation about a mechanical axis and for supporting the core with its principal magnetic axis inclined to said mechanical axis by an angle substantially equal to the angle whose cosine is

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and means for spinning said rotor support including the core about its mechanical axis.

2,615,962
AUTOMATIC SWITCHING SYSTEM
William H. Cuttino, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1950, Serial No. 175,367
6 Claims. (Cl. 175—294)



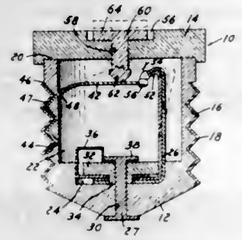
6. In a switching system, a switch having an operating winding disposed when energized to close the switch and make a connection to a power circuit, means including a closing relay operable to set up an energizing circuit for the operating winding, circuit means including a control relay operable in response to operation of the closing relay to complete the energizing circuit for said operating winding, said control relay being of the latched-in-operating position type and having a reset winding disposed when energized to release it to a normal position, a voltage relay having a contact member actuated in response to the voltage of the power circuit, time delay closing and tripping relays, circuits connecting said time delay relays to be selectively responsive to operation of the voltage relay, a circuit including a normally closed contact of the control relay connected in series circuit relation with the time delay closing means to render it inoperative except when the control relay is reset, another circuit including a contact operable in response to operation of the time delay tripping means connected to energize the reset winding of the control relay, and an additional circuit including a normally closed contact of the control relay connected in circuit relation with contact means of the time delay closing means and the closing relay to prevent reclosing the switch unless the control relay is reset.

2,615,963

RESETTABLE CIRCUIT BREAKER

Ben Millen, Cleveland, Ohio

Application January 5, 1951, Serial No. 204,523
4 Claims. (Cl. 175—294)



1. A resettable circuit breaker comprising a shell adapted to be inserted into a conventional plug-in fuse socket, said shell forming a contact member, a body of insulation material circumferentially enclosed by said shell, said body having a substantially enclosed chamber therein, rivet means at the lower end of said body having a shank portion extending upwardly through the bottom wall of said body and projecting into said chamber, said shank portion having a head at the inner end thereof, a disc of insulating material on said shank portion disposed between said head and the bottom wall of said body, a bimetallic arm extending upwardly in said chamber and having its lower end bent laterally to project beneath said disc of insulation material, a fusible member having one end thereof disposed between the lower face of said head and the upper face of said disc and having its other end projecting beneath the lower face of said disc, said head being arranged to clamp the lower end of said bimetallic arm and said other end of said fusible element in contacting relation between the lower face of said disc and the bottom wall of said body, said disc having a portion on the lower side thereof effectively insulating said clamped ends from the shank portion of said rivet means, a spring arm connected with said shell and projecting transversely through said chamber, said bimetallic arm having a free end thereof lying in the path of movement of the free end of said spring arm such that the free end of said spring arm is engageable with said bimetallic arm when said spring arm is flexed downwardly, and a push button slidably arranged in the top wall of said body and engageable with said spring arm for flexing said spring arm downwardly into engagement with the free end of said bimetallic arm.

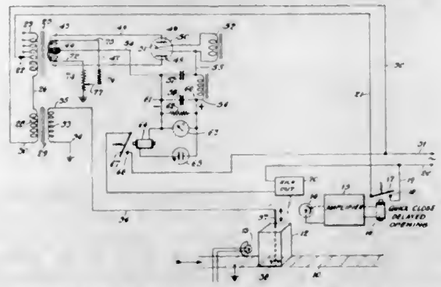
2,615,964

DIELECTRIC MATERIAL INSPECTION SYSTEM

Halvard P. Hubertz, Chicago, Ill.

Application June 16, 1950, Serial No. 168,553
8 Claims. (Cl. 175—320)

1. In a dielectric testing system, the combination of a control transformer and a load transformer, said two transformers having primary and secondary windings, means for connecting the two primaries of said transformers in series to be supplied by a source of power, said load transformer secondary being wound to have a high potential induced therein, a pair of electrodes connected to the load transformer secondary adapted to be disposed on opposite sides of a dielectric material being tested, said electrodes and material under test being so shaped that any air path between the electrodes is longer than any path between electrodes through the material under test, said dielectric material normally having a resistivity high in comparison to the resistivity of air, a rectifying system connected to the secondary of the control transformer, a filter system supplied by said rectifier and adapted to provide a substantially direct potential at the output terminals of said filter system, an electron discharge device and relay connected in series across the output of said filter system, said electron discharge device being normally non-conducting, but breaking down and conducting at a predetermined potential which is higher than the normal potential appearing at the output of said filter system, said load transformer having a power input to the primary large



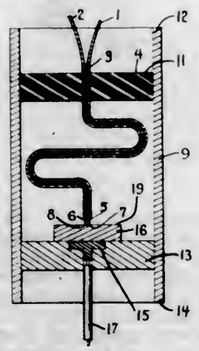
in comparison to the power input to the primary of the control transformer whereby when said dielectric material is free from defects, a normal discharge between electrodes occurs through air with the load transformer and control transformer drawing a normal current from the line and the control transformer providing a normal potential at the filter output lower than the breakdown potential of the electron discharge device and in the event that said material under test is defective, a discharge of greater than normal intensity occurs through the dielectric material thereby causing more than normal current to flow through the two primaries of the transformers to cause said electron discharge device to break down and conduct, thereby energizing said relay, said relay having a load for utilizing the test reaction of the system.

2,615,965

CRYSTAL AMPLIFIER DEVICE

Salvatore F. Amico, East Boston, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application July 24, 1948, Serial No. 40,562
6 Claims. (Cl. 175—366)



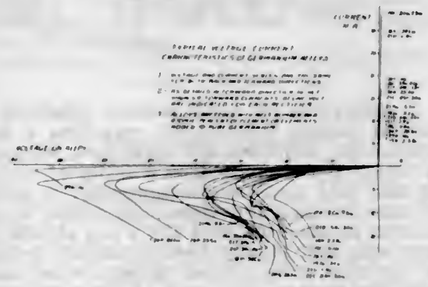
1. A semiconductor unit comprising a wedge-shaped semiconductor crystal, and two metal strip contacts, an insulating layer cementing said strips together and spacing them from contact with each other, said strips engaging said body sufficiently close to each other to effect interaction and engaging the edge of the wedge-shaped crystal perpendicularly to give substantially point contacts.

2,615,966

ALLOYS AND RECTIFIERS MADE THEREOF

Karl Lark-Horovitz and Randall M. Whaley, La Fayette, Ind., assignors to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana

Original application July 13, 1945, Serial No. 604,744, now Patent No. 2,514,879, dated July 11, 1950. Divided and this application December 29, 1949, Serial No. 135,746
15 Claims. (Cl. 175—366)



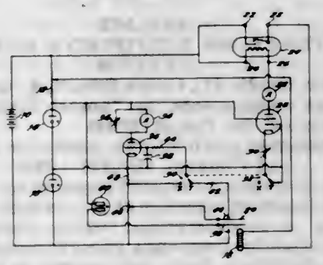
1. An electrical device comprising a semiconductor, a counter electrode having substantially point contact with said semi-conductor and a second electrode having an area of contact with said semi-conductor which is large compared to that of the counter electrode, said semi-conductor consisting of germanium of the order of 99% purity in combination with at least one of the elements from the group consisting of magnesium, calcium, zinc, strontium, cadmium, and barium, said device having a peak back voltage in the range in excess of 10 volts and approaching the order of 200 volts.

2,615,967

TIME-DELAY RELAY TESTING DEVICE

Charles B. Gould, Cleveland, Ohio, assignor to the United States of America as represented by the United States Atomic Energy Commission

Application May 26, 1947, Serial No. 750,466
3 Claims. (Cl. 175—381)



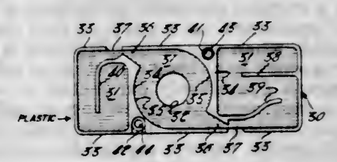
1. Apparatus for the measurement of elapsed time comprising, in combination, an electronic tube having an anode, a cathode and a control-grid, a condenser connected between the control-grid and the cathode, a bias voltage source adapted to charge the condenser so that the grid is biased negatively with respect to the cathode, charging means adapted to charge the condenser to a negative potential greater than the negative potential of the bias voltage source, switching means connected to said bias voltage source, charging means and condenser simultaneously to disconnect the bias voltage source from, and connect the charging means to, the condenser at the commencement of a time under measurement, and indicating means responsive to changes in anode current of the electronic tube.

2,615,968

TWO-TONE AIR WHISTLE

Joseph L. Bonanno, Madison, N. J., assignor to The Lionel Corporation, New York, N. Y., a corporation of New York

Application November 6, 1948, Serial No. 58,660
7 Claims. (Cl. 177—8)



7. A whistle unit for toy trains comprising a motor operated blower unit having mounting brackets for securement to an extraneous support, a molded plastic body secured to the blower unit, the body having two resonating chambers closed except for lipped openings and a blower chamber communicating with the resonating chambers and having an air inlet opening, and a relay unit for controlling the motor and carried on the body.

2,615,969

ELECTRICAL POWER LINE WARNING DEVICE FOR VEHICLES WITH EXTENDED BOOMS

August H. Albrecht, La Habra, Calif.; Esther V. Albrecht administratrix of said August H. Albrecht, deceased

Application April 15, 1949, Serial No. 87,654
1 Claim. (Cl. 177—311)



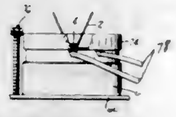
In combination, a vehicle having an extending boom, said boom being continuously in electric contact through said vehicle with the earth so that it is at ground potential, a capacitor pickup unit mounted adjacent the end of said boom and insulated therefrom, an amplifier mounted on said vehicle and connected directly to said pickup unit for amplifying the signal impressed upon said unit, means for continuously energizing said amplifier when either said vehicle or said boom is in motion, and warning means connected to the output of said amplifier for indicating the approach of said boom to an overhead electric power line whereby the operator may stop said vehicle or adjust said boom before said boom contacts said overhead power line.

2,615,970

DUMMY INTRUDER FOR INTRUDER DETECTION SYSTEMS

Samuel M. Bagno, Astoria, N. Y., assignor to The Alertronic Protective Corporation of America, New York, N. Y., a corporation of New York

Application September 12, 1951, Serial No. 246,280
11 Claims. (Cl. 177—352)



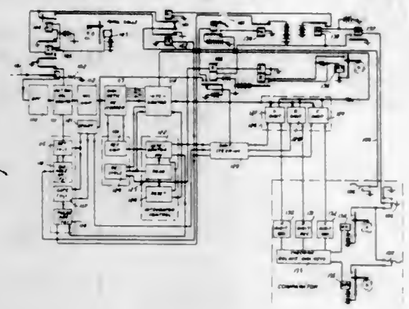
1. In an intruder detecting system including means for transmitting radiations of a given high frequency, means for receiving those radiations and means for indicating the motion of an intruder through the detection of a change in frequency; a dummy intruder comprising a movable element positioned in a path of said radiations and capable when moved of imparting a Doppler effect frequency to at least a portion of said radiations, means operatively connected to said element for moving it at a rate comparable to the detectable motion of an intruder, and independently actuatable control means for starting and stopping said moving means.

2,615,971

PULSE POSITION DIAL RECEIVER EMPLOYING PULSE SUPERPOSITION FOR IDENTIFYING DIGITS

William A. Malthaner, Summit, Neal D. Newby, Leonia, and Henry E. Vaughan, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 30, 1948, Serial No. 68,234
17 Claims. (Cl. 177—353)



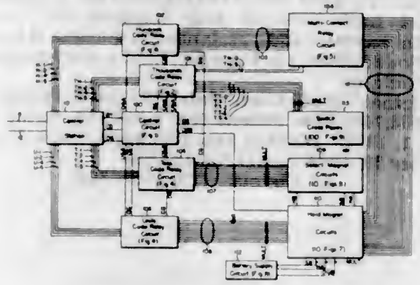
1. A pulse receiving system for determining the identity of a digit represented by one of a plurality of different time intervals occurring between two pulses, comprising apparatus responsive to a first pulse, apparatus for transmitting said first pulse through a plurality of delay paths having different delay intervals related to the different intervals between the pulses representing different digits, comprising apparatus for comparing the output of each delay path with a second pulse, and selecting means for selecting one of said paths in which the output of said comparing apparatus is below a predetermined reference value.

2,615,972

CREDIT VERIFICATION FOR SUBSCRIPTION TYPE TELEVISION SYSTEMS

Malcolm M. Hubbard, Marblehead, Mass., assignor to Zenith Radio Corporation, a corporation of Illinois

Application April 22, 1949, Serial No. 89,069
9 Claims. (Cl. 177—353)



1. Apparatus for automatically obtaining at a central station information regarding a multicomponent identification code each component of which is represented by a series of electrical signals, said apparatus comprising: a plurality of cross bar switch devices individually having a column of select magnets and a row of hold magnets and individually having contact terminals at the cross point defined by each select magnet and each hold magnet, each of said terminals being assigned to represent an individual identification code; a signalling circuit extending from said switch devices to said central station; means extending from one of said terminals to said signalling circuit to establish a signalling condition in said signalling circuit representing information to be disseminated with respect to the identification code assigned to said one terminal; means respectively multipling in groups corresponding select magnets in all columns and corresponding hold magnets in all rows; apparatus for converting each of said series of signals to a single index signal representing one component of said identification code; means for supplying a first one of said index signals to a selected one of said groups of multipled hold magnets and for supplying a second one of said index signals to a selected one of said groups of multipled select magnets to condition a plurality of cross points for operation; and means responsive to the application of a third one of said index signals for operating the contact terminals associated with a single one of said conditioned cross points.

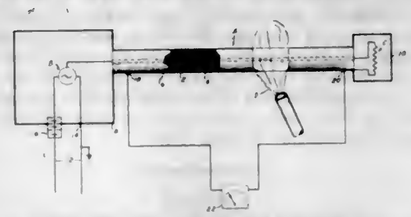
2,615,973

TEMPERATURE RESPONSIVE DETECTOR SYSTEM

Westcott Heath, Jr., Union City, N. J., assignor, by mesne assignments, to Samuel Scrivener, Jr., trustee of the Petcar Trust

Application April 7, 1950, Serial No. 154,496
11 Claims. (Cl. 177—355)

1. A temperature sensitive system for providing an indication of increase of an ambient temperature to a predetermined value, comprising a source of radio frequency energy, means responsive to radiation from said source to provide an indication, means disposed between said source and said responsive means which are magnetic at temperatures below said predetermined value to thereby shield the responsive means from radiation from the source and which become non-magnetic at and above said predetermined temperature value to permit radiation from the source to reach said responsive means.

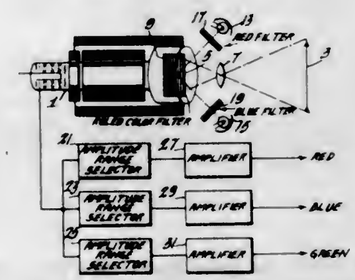


2,615,974

COLOR TELEVISION PICKUP SYSTEM

Francis J. Darke, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 17, 1948, Serial No. 15,387
7 Claims. (Cl. 178—5.2)



1. A television pickup system comprising in combination means for forming a color image, means for converting said color image into an electrical image representation, means for optically adding at any one time different electrical bias to the electrical image representations of different selected color components, means for scanning said electrical image representation, means for developing from said scanning operation a train of electrical signals, means for dividing said train of electrical signals into separate amplitude ranges, and means for developing independent type television signal trains representative of each selected component color from the divided trains of electrical signals.

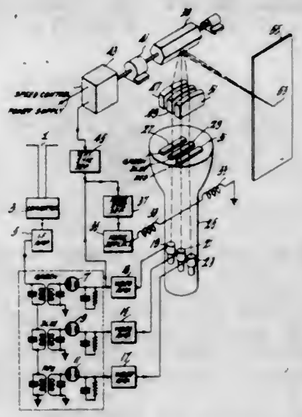
2,615,975

COLOR TELEVISION RECEIVING SYSTEM

George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 30, 1948, Serial No. 41,692
6 Claims. (Cl. 178—5.4)

1. A color television image reproducing system comprising in combination a plurality of electron beam forming electron guns each including beam intensity control means, means whereby each of said beam intensity control means receives a signal train representative of one different selected color component of an object, an electron target for said electron beams, beam deflection means for deflecting said beams in parallel planes to develop scanning points moving in one direction, an image projection screen, a rotatable multiple element light reflector optically positioned between said electron target area and said image projection screen, means whereby said rotatable multiple element light reflector is caused to scan said image projection screen with said scanning points in a direction substantially perpendicular to the direction said beams are deflected by said beam deflecting means and means including an optical system to focus the scanning points of all of said electron beams in substantial image registry to form a natural color image on said image projection screen.

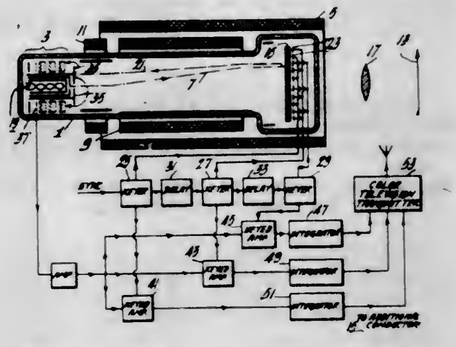


2,615,976

COLOR TELEVISION SYSTEM

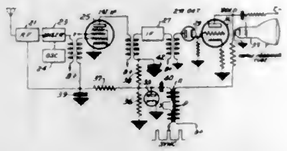
Albert Rose, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 20, 1947, Serial No. 787,211
7 Claims. (Cl. 178—5.4)



1. A color television transmitting system comprising an image pickup tube having a common output circuit said image pickup tube including target electrodes having electrically independent and electrically modulatable intermingled groups of interconnected elements and wherein the elements of each group are sensitive to a different selected component color, a signal channel for each of said selected component colors, said signal channels each connected to said common output circuit of said image pickup tube, a plurality of keying circuits, one controllably connected to each of said groups of elements and the corresponding component color representative signal channel, said keying circuits connected in cascade through signal delay circuit arrangements and one of said keying circuits adapted to receive a sync pulse through input terminals.

2,615,977
GAIN CONTROL CIRCUIT UTILIZING KEYED MAGNETIC AMPLIFIER
George C. Sziklai and Francis J. Darke, Jr., Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application May 28, 1948, Serial No. 29,797
5 Claims. (Cl. 178—7.3)



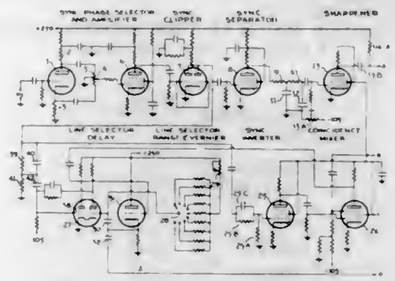
5. A signal gain control system for a television receiving station including a television signal receiving circuit having a television signal amplifier arranged to receive an incoming television signal said amplifier having a signal gain control connection, said television signal receiving circuit having a direct current utilization circuit common to a circuit for said television signal, means for causing the magnitude of the direct current utilized by said circuit to be dependent upon the incoming signal strength, said signal gain control system comprising in combination a magnetic amplifier utilizing a saturating reactor having a primary and a secondary winding, a rectifier circuit, a source of direct current, and a source of synchronizing pulses, said source of direct current connected to said direct current utilization circuit through said primary winding, and said source of synchronizing pulses connected to said gain control connection through said secondary winding and said rectifier circuit, said rectifier circuit being so poled that the application of said synchronizing pulses causes energization of a storage circuit connected to said gain control connection to compensate for variations in the level of said synchronizing signals.

2,615,978
PULSE WIDTH SEPARATION FILTER
Kurt Schlesinger, Maywood, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application October 14, 1947, Serial No. 779,726
2 Claims. (Cl. 178—7.3)



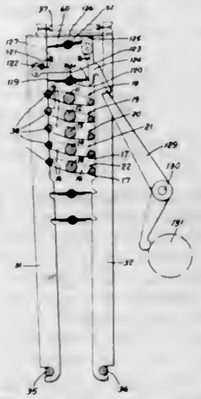
2. In a television system including means for producing a synchronization signal including vertical synchronization pulses and horizontal synchronization pulses which occur at much higher frequency than said vertical synchronization pulses, and in which all said pulses are square waves of the same amplitude with said vertical pulses being of longer duration than said horizontal pulses, means for producing from said signal a wave which includes pulses which correspond in time to said vertical pulses comprising, a low pass filter arranged to pass the frequency of said vertical pulses and a plurality of harmonics thereof, said filter having a first section including a series inductor and a shunt condenser and a second section including an inductor and a condenser connected in parallel and a shunt condenser, and a common magnetic core for said inductors to provide mutual inductance therebetween, said components of said second section having such values that said second section substantially blocks the fundamental frequency of said horizontal pulses, said mutual inductance being effectively in series with said condenser of said first section to provide a by-pass for the fundamental frequency of said horizontal pulses so that said horizontal pulses do not appear in the output of said filter.

2,615,979
COMPOSITE SYNC DISSECTOR
Ralph P. Abbenhouse, East Paterson, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application July 7, 1948, Serial No. 37,342
5 Claims. (Cl. 178—7.5)



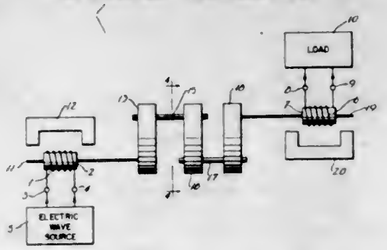
1. A device for providing triggering pulses for a cathode ray oscillograph sweep circuit from a composite television signal consisting of both video signals and synchronizing signals whereby the time base of said oscillograph may be actuated by said pulses in such a manner as to portray the individual video signals for any particular line chosen, said device comprising, in combination, a source of such television signals, clipping and amplifier stages connected to said source to remove the video portion of said composite signal, integrating means connected to said stages to integrate the serrated vertical synchronizing pulses of said synchronizing signals, amplifying means connected to said integrating means to amplify said integrated vertical synchronizing pulses, differentiating means connected to said amplifying means to differentiate said amplified vertical synchronizing pulses, a delay multivibrator, including a variable resistor, connected to said means and initiated into one cycle of operation by said integrated, amplified, and differentiated vertical synchronizing pulses, the duration of said cycle being variable by means of said variable resistor, a blocking oscillator connected to and initiated by a pulse from said multivibrator, a gated amplifier connected to and gated by said blocking oscillator to amplify horizontal synchronizing pulses derived from said clipping and amplifier stages, another delay multivibrator connected to and actuated by the output of said gated amplifier and stabilized by a portion of said composite signal also derived from said clipping and amplifier stages, said last mentioned delay multivibrator being adjustable over a wide range of delay, a differentiating circuit and a blocking oscillator connected thereto and acting as a trigger amplifier, the output of said last mentioned oscillator providing said triggering pulses for said cathode ray oscillograph.

2,615,980
PRINTING TELEGRAPH APPARATUS
Reginald Dennis Salmon, Croydon, England, assignor to Creed and Company Limited, Croydon, England, a British company
Application March 11, 1948, Serial No. 14,177
In Great Britain March 14, 1947
8 Claims. (Cl. 178—33)



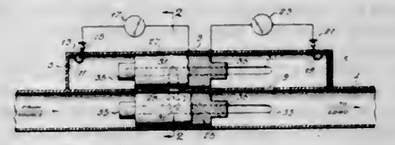
1. Printing telegraph receiver operative in response to any of three different shift signals to condition said receiver to respond differently to an incoming signal depending upon which of said different shift signals preceded said incoming signal, comprising a code-function-selector-member for each code element of the signal, cam operated mechanical means for setting each of said members into one or other of two positions in accordance with the corresponding element of each signal, a primary shift selector-member and a secondary shift selector-member, means for causing the setting of said code-function-selector-members in accordance with letter shift or figure shift signals to position said primary shift selector member correspondingly, mechanical means for causing the setting of said code-function-selector-members in accordance with a secondary shift signal to position said secondary shift selector member, and mechanical means selectively responsive to the combined settings of said code-function-selector-members and said primary and secondary shift selector members to select different of a plurality of functions to be performed in the receiver.

2,615,981
ELECTROMECHANICAL FILTER
Melvin L. Doelz, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa
Application January 14, 1949, Serial No. 70,829
21 Claims. (Cl. 178—44)



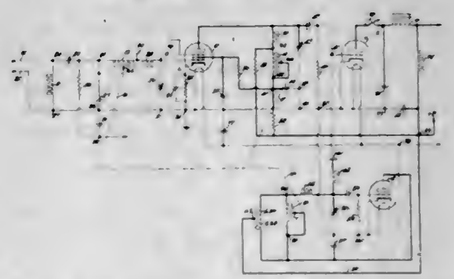
1. A filter for electric waves, comprising, a series of substantially planar members mounted with their planes in substantial spaced parallelism, longitudinally rigid means coupling immediately adjacent planar members at points offset from their centers, input transducer means connected to the first member of the series, and output transducer means connected to another member of the series, each successive pair of said rigid coupling members between successive discs being also offset with relation to each other.

2,615,982
DIRECTIONAL COUPLER
Sam Zaslavsky, Jackson Heights, N. Y., assignor to The Sperry Corporation, Great Neck, N. Y., a corporation of Delaware
Application January 14, 1949, Serial No. 70,897
5 Claims. (Cl. 178—44)



1. In a network for high frequency radio energy, a wave transmission conduit adapted to be connected between a source and a load, a second wave transmission conduit substantially parallel to and adjacent said first conduit, means coupling a point on said first conduit to a proximate point on said second conduit, further means coupling a second point on said first conduit to a respective proximate point on said second conduit, a body of dielectric material within said first conduit and movable therein for altering the wavelength between said first and second points in said first conduit of energy flowing therein with respect to the wavelength of said energy in the remainder of said conduit, and a second body of dielectric material movable within said second conduit for similarly altering the wavelength between said corresponding points in said second conduit of energy flowing in said second conduit, whereby the effective electrical spacing between said first and second points longitudinally of said conduits may be made substantially a predetermined odd number of quarter wavelengths at any particular frequency within a band of frequencies.

2,615,983
TUNER FOR TELEVISION RECEIVERS
Emmery J. H. Bussard, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application May 5, 1950, Serial No. 160,316
4 Claims. (Cl. 178—44)



1. In a continuous input tuner for a television receiver, a three element π-type reactive network

having two arms for matching the impedance of a transmission line to the input impedance of a selector circuit comprising: an input shunt inductor arm directly connected across said transmission line, a fixed series capacitor connected between the high potential terminals of the arms, and a fixed output shunt capacitor arm, said inductor arm providing attenuation of carrier signals having frequencies on the order of those of the amplitude modulation broadcast band (540 to 1600 kilocycles), said inductor arm and said series capacitor being series resonant at a frequency above the intermediate frequencies of said television receiver and considerably below the television bands extending from 54 to 216 megacycles, whereby said inductor and series capacitor function as a high pass filter to reject undesired signals of frequencies below the series resonant frequency, both of said capacitors functioning as a capacitance divider to step down the impedance between the input and output of said network, the parallel resonant circuit comprising both of said arms and said series capacitor being fixed tuned to parallel resonance at a frequency close to that of the lowest television channel, whereby the output of the network appears to be capacitively reactive throughout the television band and substantial carrier frequency current flows in said output capacitor arm.

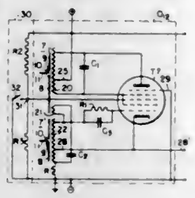
2,615,984

SINGLE-TUBE FREQUENCY-MODULATED OSCILLATOR

Bernard E. Lenehan, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 29, 1950, Serial No. 171,142

5 Claims. (Cl. 178—66)



1. An oscillator comprising: a tube having a plate, a cathode, and at least five grids therebetween, of which the grids Nos. 2 and 4 together constitute a screen-grid; inductive means including a tuned primary circuit and a tuned secondary circuit having a loose inductive coupling therebetween, the primary tuned circuit including a primary winding having an intermediate tapped point, and the secondary tuned circuit including a secondary winding having an intermediate tapped point; a plate-source having positive and negative terminals; means for connecting the primary winding between the plate and the screen of the tube; means for connecting the positive source-terminal to the intermediate tapped point of the primary winding; means for connecting the secondary winding between the No. 1 grid and the negative source-terminal; means for connecting the cathode to the intermediate tapped point of the secondary winding; means for connecting the No. 5 grid to a potential close enough to the cathode-potential to make that grid operate as a suppressor-grid; means for applying a direct-current bias-voltage to the No. 3 grid; and means for varying said bias-voltage between such limits as to cause the oscillator frequency to vary from one frequency to a distinguishably different frequency.

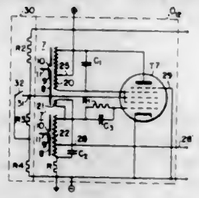
2,615,985

TWO-FREQUENCY OSCILLATOR

John D. Moynihan, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 29, 1950, Serial No. 171,193

5 Claims. (Cl. 178—66)



1. An oscillator comprising: a tube having a plate, a cathode, and at least five grids therebetween, of which the grids Nos. 2 and 4 together constitute a screen-grid; inductive means including a tuned primary circuit and a tuned secondary circuit having a loose inductive coupling therebetween, the primary tuned circuit including a primary winding having an intermediate tapped point, and the secondary tuned circuit including a secondary winding; a plate-source having positive and negative terminals; means for connecting the primary winding between the plate and the screen of the tube; means for connecting the positive source-terminal to the intermediate tapped point of the primary winding; means for connecting the secondary winding between the No. 1 grid and the negative source-terminal; means for connecting the cathode to substantially the negative end of the secondary winding, whereby the tube substantially ceases to oscillate at a certain critical grid-bias voltage on the No. 3 grid, whereas, at somewhat higher grid-bias voltages, the tube oscillates at one substantially fixed definite frequency, while its oscillates at a distinguishably different, substantially fixed, definite frequency at grid-bias voltages which are somewhat lower than said critical grid-bias voltage; means for connecting the No. 5 grid to a potential close enough to the cathode-potential to make that grid operate as a suppressor-grid; means for applying a direct-current bias-voltage to the No. 3 grid; and means for varying said bias-voltage between limits which are respectively somewhat higher and somewhat lower than said critical grid-bias voltage.

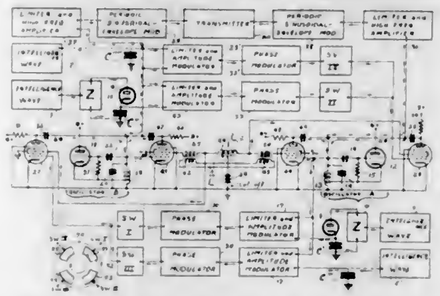
2,615,986

PHASE MODULATION SYSTEM

Meguer V. Kalfaian, Hollywood, Calif.

Application January 20, 1948, Serial No. 3,318

9 Claims. (Cl. 179—15)



1. Apparatus for phase modulating a time divided carrier wave which comprises the following parts: first and second oscillators of substantially a single carrier frequency, first and second output and input gates associated with each of these oscillators, a source of intelligence waves and means therefor to phase-modulate the first and second oscillators through the first and second input gates, a third gate to connect the wave voltage of the first oscillator to control the phase angle of the oscillation of the second oscillator, a fourth gate to connect the wave voltage of the second oscillator to control the phase angle of the oscillation of the first oscillator, an alternating wave source having a switching frequency equal half that of the maximum essential rate at which the statistical components of the said intelligence waves are to be conveyed per second, and means therefor to switch the said gates by the said switching wave, in an order that, when during one alternate period of the wave the first input gate is switched off and the first output gate is switched on, the second output gate is switched off while the second input gate and the third gate are switched on, whereby the oscillatory waves at the outputs of the first and second output gates shift with respect to each other representative of intelligence by difference-angles measurable from infinitely shifting reference angles.

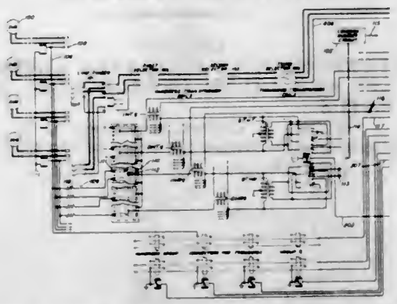
2,615,987

CALLING LINE IDENTIFICATION SYSTEM

John W. Gooderham, Rye, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 25, 1949, Serial No. 112,193

11 Claims. (Cl. 179—18)



1. In a telephone system, a plurality of lines, a plurality of trunks, means for extending a connection from any calling one of said lines over any idle one of said trunks, and line identifying means associable with said connection for determining the identity of said calling line, said identifying means comprising a source of signal current and means for applying current from said source to the trunk end of said extended connection and means associable with the calling line end of said extended connection for detecting said signal and means responsive to the detection of said signal for reversing the connection of said source and of said detecting means to said trunk and to said calling line end of said connection and means to indicate whether or not reverse detection of said signal occurs.

2,615,988

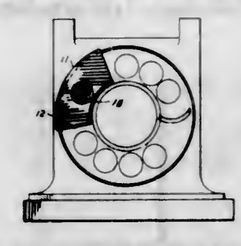
TELEPHONE DIAL CLEANER

Homer V. Martin, Lincoln, Nebr.

Application May 1, 1950, Serial No. 159,279

4 Claims. (Cl. 179—90)

1. A cleaner for the dial of an automatic telephone comprising a holder having a vertical cylindrical back from the top and bottom arcuate margins of which extend in parallel relation an integral upper horizontal portion and an integral lower horizontal portion, spaced apart so that the upper portion loosely engages the top surface of the oscillating finger disk and the lower portion extends under the oscillating finger



disk, and a cleaning element lying parallel to and below the lower portion and movable with the holder to lie flat against and slidingly engage the number carrying dial to clean the dial as the holder is moved about the axis of the disk, with or without movement of the disk, said holder being freely oscillatable with respect to the disk.

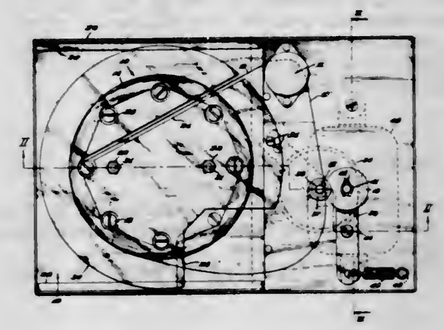
2,615,989

MAGNETIC RECORDER

Theodore D. Thad, Cook County, Ill., assignor to Morris Weintraub, Newport, Ky.

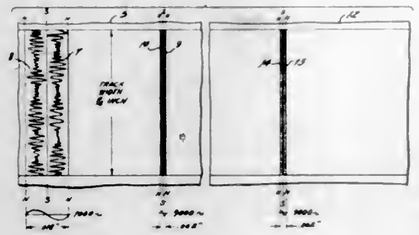
Application October 2, 1948, Serial No. 52,569

5 Claims. (Cl. 179—100.2)



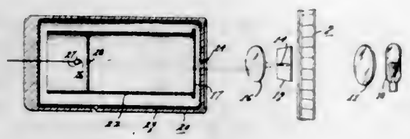
1. A magnetic recorder comprising a pair of electromagnetic transducer heads each having an output circuit connected thereto, a magnetic tape record member having a recorded audio signal on predetermined portions thereof and a recorded control signal on predetermined portions thereof in parallel spaced relation to said audio signal portion and at least coextensive therewith, winding and reeling mechanism for moving said record member at substantially uniform velocity across said heads, means for energizing said winding and reeling mechanism, a first switch in series with the energizing means, an auxiliary circuit connected in parallel with said first switch and having a second switch therein, means operable by the reprodutcion of the control signal to close said second switch, whereby said first switch may be closed to initiate operation of said winding and reeling mechanism and whereby said second switch will thereafter remain closed to continue energization of said winding and reeling mechanism as long as said recorded control signal portion of said record member is traveling over its associated head.

2,615,990
MAGNETIC RECORDING AND REPRODUCTION
Arthur C. Blaney and Dorothy L. Blaney, Los Angeles, Calif., assignors to Radio Corporation of America, a corporation of Delaware
Application June 18, 1949, Serial No. 99,987
11 Claims. (Cl. 179—100.2)



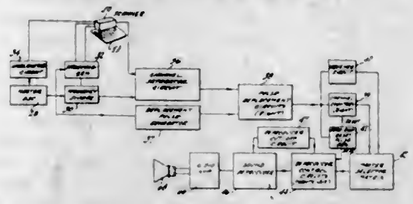
1. A magnetic recording system, comprising a magnetic record medium and a magnetic head for magnetizing said medium in a plurality of parallel tracks extending longitudinally of said medium and spaced from one another transversely of said medium, each longitudinal section of said tracks transversely of said medium being magnetized substantially to the same extent by the same signal, said head including a plurality of magnetic laminations corresponding in number to said plurality of tracks and separated by non-magnetic spacers, and means for impressing a signal to be recorded on said laminations, the thickness of said spacers being greater than the thickness of said laminations.

2,615,991
SOUND REPRODUCING METHOD AND SYSTEM
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 11, 1948, Serial No. 32,285
8 Claims. (Cl. 179—100.3)



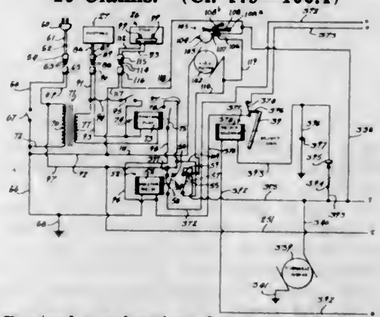
1. A sound reproducing system for eliminating ground noise from the reproduced sound, comprising a photo-emissive electrode, a sound record having substantially transparent and opaque areas transversely of the record, means for moving said record, means for projecting light as a narrow beam extending across the width of said record to one side of said electrode, a source of electrons, means for forming said electrons into a ribbon beam corresponding in length to the maximum length of said light beam for projection on the opposite side of said photo-emissive electrode, and means for transforming the electrons released from said surface by the variations in transparent and opaque areas of said record into electrical currents as said record is moved by said record moving means.

2,615,992
APPARATUS FOR INDICIA RECOGNITION
Leslie E. Flory and Winthrop S. Pike, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application January 3, 1949, Serial No. 68,888
14 Claims. (Cl. 179—100.3)



1. Apparatus for recognizing and translating from a given surface indicia thereon of contrasting energy-reflective properties, said apparatus comprising, a source of energy, means for scanning a plurality of segmental zones of said surface with pulsating beams of energy projected upon said surface from said source, means including an element responsive to reflected energy originating in said beams and reflected from said surface for detecting changes in the amount of energy reflected from said surface within each of the zones scanned by said beams, and means including a plurality of binary counter circuits coupled to said last-mentioned means to count the number of said changes detected and generate differing voltage groups having a predetermined relation to the number of said changes detected for each of said zones.

2,615,993
ELECTRONICALLY OPERATED ADVERTISING AND SOUND REPRODUCING APPARATUS
Melvin A. Carter, Brooklyn, N. Y.
Application September 26, 1950, Serial No. 186,859
10 Claims. (Cl. 179—100.4)



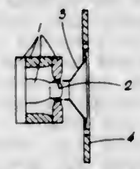
3. Control mechanism for a sound reproducing apparatus arranged to transcribe messages from a disc record or the like which are separated from each other by a signal recorded at a frequency above the frequency of the messages and having a source of electrical energy, comprising a normally open control relay, a master relay, an amplifier circuit influenced by a transcribing arm having a needle for engaging the disc record and connected to said master relay to be energized when said master relay is energized, a control transformer having its primary connected in series with the source and a manually operable master switch for causing the primary to be energized when said master switch is closed, said transformer having its secondary connected in series with switch means and said control relay for causing said control relay to be closed when said switch means is closed, said control relay being connected to said master relay to energize said master relay when said control relay is closed, said master relay being connected in said circuit with the source so as to remain energized even after said control relay has again opened, said amplifier circuit being divided into a sound branch connected to the primary of an output transformer and a signal branch connected to the coil of a signal relay to energize the signal relay when a signal of a disc record is picked up by the transcribing needle, said signal relay having a grounded arm closed against one contact when its coil is deenergized and closed against a second contact when its coil is energized, said output transformer having one of the sides its secondary connected to the said one contact, a stepping switch having a rotative arm and a plurality of contacts to be successively engaged by said arm as it is rotated, said secondary of said output transformer having its other side connected to said arm, a grounded main speaker connected to one of said contacts of said stepping switch, and a plurality of grounded auxiliary speakers connected each to one of the other contacts of said stepping switch to be successively played through as said arm is rotated.

2,615,994
DIAPHRAGM FOR ELECTROSTATIC LOUD-SPEAKERS
Theodore Lindenberg, Manhasset, and Grant T. Loughlin, Crestwood, N. Y.
Application December 14, 1948, Serial No. 65,236
3 Claims. (Cl. 179—111)



1. An electrostatic sound reproducer comprising a diaphragm embodying a pair of spaced flexible base sheets of dielectric composition, flexible metal foil plates directly applied to the outer surfaces only of said base sheets to form component parts thereof, and spacing strips of flexible material positioned between and uniting the marginal edge portions only of said base sheets, said spacing strips serving to physically separate said base sheets from each other and producing a shallow air chamber therebetween.

2,615,995
MOVING COIL LOUD-SPEAKER
Paul Gustavus Adolphus Helmuth Voigt, Upper Norwood, London, England
Application October 26, 1949, Serial No. 123,574
In Great Britain October 29, 1948
9 Claims. (Cl. 179—115.5)



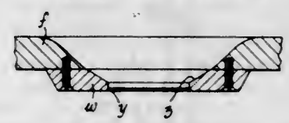
1. A moving-coil loud-speaker comprising a magnet having a narrow air gap, a moving coil mounted in said air gap, and a diaphragm mechanically coupled to said coil, wherein the flux density in said air gap is of the order of at least 15,000 gauss and wherein the mass of said moving coil, being less than one gramme is less than twice the value of the expression:

$$3.6\times10^{5}\frac{ADT}{B^{2}}\text{ grammes}$$

where

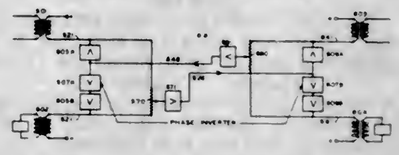
A is the projected area of said diaphragm in square centimetres,
D is the specific ratio of the density to the conductivity of the coil conductor, taking the ratio of the density to the conductivity of aluminium as unity,
T is the air transformation ratio of the loudspeaker, that is, the ratio of the diaphragm area to the horn throat area, and
B is the flux density in the air gap in gausses.

2,615,996
MAGNET POLE STRUCTURE
Paul Gustavus Adolphus Helmuth Voigt, London, England
Application March 4, 1948, Serial No. 12,914
In Great Britain March 4, 1947
2 Claims. (Cl. 179—119)



1. An outer pole-forming structure for a magnet of the type having inner and outer annular pole faces of opposite polarity facing one another across an annular air-gap, comprising a front magnet plate having a hole therethrough and a separate annular pole piece in the form of a flat plate of greater thickness than the width of the air gap and having a hole therein of smaller diameter than the hole in said plate for forming said outer annular pole-face, at least one side of such pole piece being chamfered round said hole for reducing the thickness of said pole piece adjacent said pole face, said magnet plate extending outwardly from said opening beyond the periphery of said pole-piece and said magnet plate and pole-piece having mutually contacting flat surfaces located in a plane at right angles to the axis of said pole-piece and forming a magnetic joint between said magnet plate and said pole-piece.

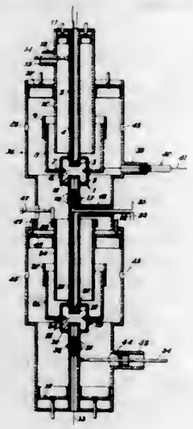
2,615,997
TELEPHONE REPEATER
George H. Brodie, La Grange, Ill., assignor, by mesne assignments, to Kellogg Switchboard and Supply Company, a corporation of Delaware
Application December 13, 1946, Serial No. 716,054
6 Claims. (Cl. 179—170)



1. In a two-way telephone repeater for interconnecting a first section and a second section

of a two-way telephone line, a balance network associated with said second section, circuit apparatus providing a first amplifying channel for transmitting amplified signals from the first section to the second section, and providing a second amplifying channel for transmitting amplified signals from the second section to the first, the first channel having a pair of output branches leading therefrom respectively to the second line section and its associated balance network, the second channel having a pair of input branches leading thereto respectively from the second line section and its associated balance network, the second line section and its balance network each providing a junction for an output branch of one channel and an input branch of the other channel, and a phase inverter serially related to one of said four branches.

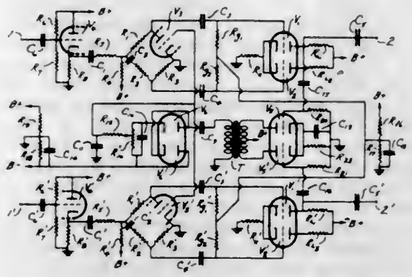
2,615,998
MULTISTAGE CASCADE AMPLIFIER
Benjamin Malcolm Charchian, New York, N. Y., assignor to Federal Telephone & Radio Corporation, New York, N. Y., a corporation of Delaware
Application January 31, 1948, Serial No. 5,600
7 Claims. (Cl. 179—171)



1. An electron tube system for operation at ultra-high-frequency, comprising a pair of grid-controlled electron tubes to be connected in cascade, a coaxial wave transmission line section coupling the output of one tube to the input of the other tube, said section having one of the conductors thereof terminated at one end in the anode of one tube and terminated at the other end in the cathode of the other tube, said line section being dimensioned to an even multiple of a quarter-wavelength at the operating frequency of the system whereby both the output circuit of said one tube and the input circuit of said other tube are tuned.

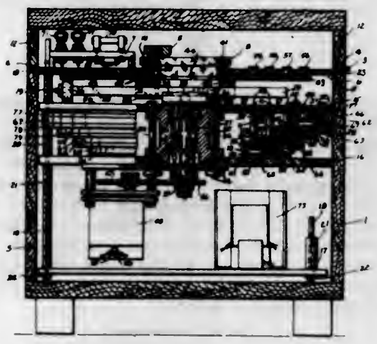
2,615,999
VOLUME CONTROL APPARATUS
Peter J. Culicetto, West New Brighton, N. Y.
Application July 26, 1950, Serial No. 175,901
11 Claims. (Cl. 179—171)

1. A circuit for compressing or expanding the volume range of signals comprising a Wheatstone bridge having one arm composed of a tube with its cathode grounded and having its three other arms composed of resistors, the cathode of said tube and the resistor junction directly opposite thereto constituting the input terminals of the circuit, means for amplifying and rectifying a portion of the signal and for impressing such rectified voltage upon the control grid of said tube so as to vary the plate resistance of said tube proportionately to the intensity of such signal, a pair of tubes cathode coupled through a common resistor, means for feeding the signal taken from the anode of said first mentioned



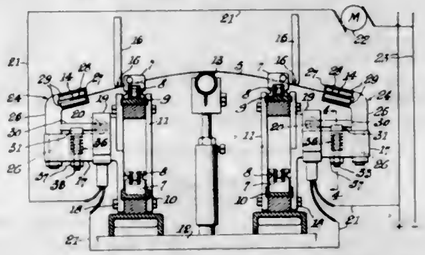
tube to the control grid of one of said cathode coupled tubes, means for feeding the signal taken from the resistor junction of said bridge directly opposite the anode of said first mentioned tube to the control grid of the other of said cathode coupled tubes, and means for taking the signal output from the anode of the cathode coupled tube whose control grid is connected to the anode of the first-mentioned tube.

2,616,000
VARIABLE TIME SEQUENTIAL OPERATED SWITCH
M Georges Beautense, New York, N. Y.
Application October 28, 1947, Serial No. 782,579
17 Claims. (Cl. 200—38)



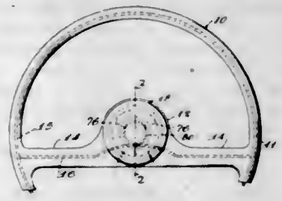
1. In an electrical device having a plurality of circuits which may be closed in sequence and having a plurality of operators disposed in a row and contact means moved by said operators for closing said circuits and a motor and arm driven by said motor at a uniform speed, said arm having means thereon for moving said operators in progressive sequence, said means on said arm being adjustable to a second position a second row of operators and contacts movable by said means on said arm, having a spaced relationship to cause a substantially longer period of time when moved by said means on said arm than required for said first row, whereby the time required for completing the circuits in said second row is greater than the time required to complete the circuits in said first row.

2,616,001
BENT SHEET DETECTOR
Justin Simpson, Elmhurst, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 2, 1949, Serial No. 108,191
3 Claims. (Cl. 200—52)



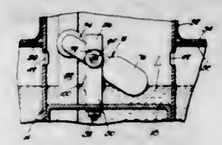
1. In apparatus of the character described, a control unit including a support, a detector member having an upright standard mounted on said support to swing about a vertical axis, a tester extension extending in generally horizontal direction from said standard and equipped with a tester slot so narrow as to freely pass only normal sheet edge portions free of abnormal bends, a switch actuator extending in generally horizontal position from the standard and movable therewith, a normally open switch including a normally projected plunger disposed to be placed inwardly in switch closing position by contact with said switch actuator when the tester extension is extended in its normal testing position and to move outwardly to the switch opening position whenever the switch actuator moves away from said plunger incidental to a displacement of the tester extension by a bent edge portion of a blank, and a spring plunger spring detent positioned to yieldably press against the switch actuator when said actuator is in its normal testing position and yieldably hold said actuator against the switch plunger in said normal testing position.

2,616,002
SWITCH CONSTRUCTION
Alex J. Junker and John J. Koski, Toledo, Ohio, assignors to Willys-Overland Motors, Inc., Toledo, Ohio, a corporation of Delaware
Application March 11, 1950, Serial No. 149,174
10 Claims. (Cl. 200—59)



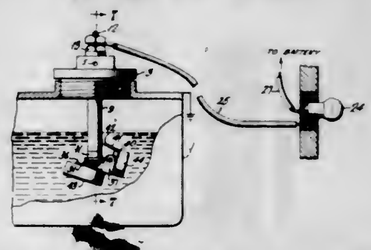
1. A switch construction for an electrical circuit including in combination, a support; a plurality of yieldable abutments mounted on the support; each of said abutments being formed with a recess; a manually actuable member centrally mounted with respect to said abutments; said member being formed with recesses in substantial alignment respectively with said spaced abutments; an element disposed in the recess in each abutment and extending into a recess in said member aligned therewith; said yieldable abutments being arranged to normally maintain said member in a predetermined position; a metal contact element carried by said member; a relatively stationary contact element; said abutments being formed to be flexed upon relative movement of the member to effect engagement of the contact element carried by the member with the relatively stationary contact element.

2,616,003
FLOAT-SWITCH ASSEMBLY
Dennison H. MacDonald, East Haven, Conn., assignor to Revere Corporation of America, Wallingford, Conn., a corporation of Connecticut
Application May 8, 1951, Serial No. 225,113
5 Claims. (Cl. 200—84)



1. In a float-switch assembly, the combination of an arm pivoted intermediate its ends and having at one side of its pivot axis a float portion; a permanent magnet carried by said arm at the other side of its pivot axis and forming with said arm a switch-control unit, the pivot axis of said arm passing substantially through the center of gravity of said unit so that the latter is in any angular position in substantially neutral equilibrium; an electric switch having companion contact members of which at least one member is of non-permanent magnetic material and in magnetic relation with said permanent magnet throughout a certain rotary range of said unit; and means normally yieldingly urging said unit into a home position spaced at an acute angle from the nearest limit of said certain range thereof.

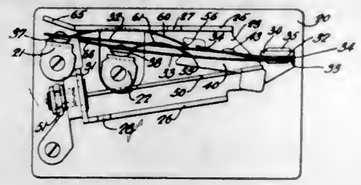
2,616,004
FLUID CONTROLLED SWITCH
Max T. Richards, Orlando, Fla.
Application September 19, 1951, Serial No. 247,240
4 Claims. (Cl. 200—84)



1. A fluid controlled switch arm comprising, a support, a lever pivoted intermediate its ends upon said support, a solid non-floatable weight carried at one end of said lever and a solid non-floatable contact arm weight at the other end of said lever, said weight being heavier than said contact arm weight in air to overbalance said lever and tilt it downward on the weight side when said weight and contact arm weight are not immersed in fluid, said weight being of a less specific gravity than said contact arm weight with respect to the fluid with which the device is to be used, whereby said contact arm weight will overbalance said lever and tilt it downward on the contact arm weight side when the weight

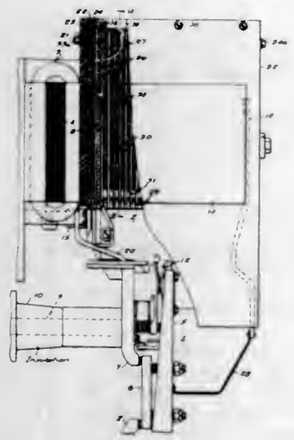
and contact arm weight are immersed in fluid, said lever having arms at either side of the pivotal connection angularly disposed with relation to one another, and said weight and said contact arm weight being in the form of disks secured to said arms.

2,616,005
ELECTRIC SWITCH
Harry C. Swan, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 15, 1950, Serial No. 200,976
8 Claims. (Cl. 200—113)



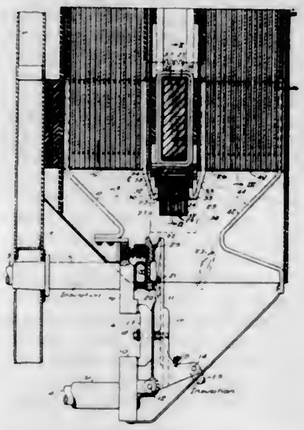
1. An electric switch comprising in combination, a rigid frame; a movable abutment; flexible means securing the abutment to the rigid frame, said flexible means constantly urging the abutment in one direction; thermo-electric means attached to both the rigid frame and the abutment and operative to actuate the abutment in the opposite direction in opposition to said flexible means; stationary contacts; cooperating flexible contacts secured to the rigid frame; and a flexible biasing element on each flexible contact, said biasing elements respectively seating in contiguous notches in the abutment, each biasing element being operative to actuate its respective flexible contact in one direction or the other, dependent upon the position of the notch occupied by it, relatively to the respective flexible contact.

2,616,006
AIR BREAK CIRCUIT INTERRUPTER
Russell E. Frink, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 28, 1947, Serial No. 731,639
9 Claims. (Cl. 200—144)



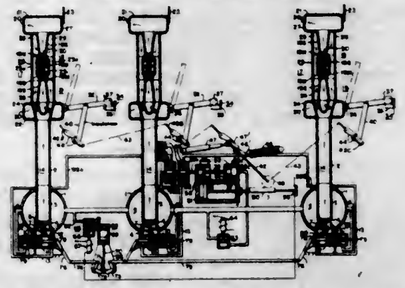
1. In a circuit interrupter of the air break type, means for establishing an arc, a plurality of thin closely spaced parallel plates of insulating material disposed substantially transversely of the established arc, the spacing between the parallel disposed plates being substantially equal to the thickness of the plates, at least some of the spaced plates having a plurality of spaced closed apertures formed therein and free venting spaces therebetween to vent the arc gases freely, the spaced closed apertures extending in substantially a straight line away from the arc establishing means, means for moving the established arc substantially transversely against the plates and through the spaced closed apertures to effect the extinction thereof, and a body of air around and between the spaced plates to permit free movement of the established arc.

2,616,007
CIRCUIT INTERRUPTER
Robert C. Dickinson and Russell E. Frink, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 4, 1947, Serial No. 720,165
8 Claims. (Cl. 200—147)



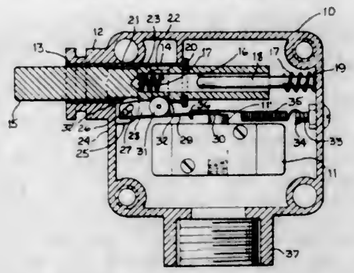
1. A circuit interrupter including contact structure for establishing an arc, a pair of terminals of opposite polarity, an arc chute for extinguishing the arc including two plate structures, each plate structure including a plurality of spaced insulating plates positioned substantially perpendicularly to the direction of the arc, a pair of arc horns disposed at opposite ends of the two plate structures and electrically connected at least during arc extinction to the terminals of opposite polarity, magnetic blowout structure including a pair of magnetic pole plates on opposite sides of the two plate structures extending in a direction substantially perpendicularly to the plates, a magnetic core disposed between the two plate structures and interconnecting the magnetic pole plates to form a substantially H type magnetic circuit, the magnetic core having an energizing winding thereabout, the energizing winding being at a floating potential with respect to the pair of arc horns in the fully open circuit position of the interrupter, the energizing winding having a pair of transfer arc horns electrically connected thereto at the opposite ends thereof, said winding being de-energized in the closed circuit position of the interrupter, each of the pole plates having a portion extending to a point immediately adjacent to the contact structure so that during the opening operation of the interrupter, even before the energizing winding has current flowing therethrough, the magnetic field set up by the established arc will be affected by the portions to concentrate magnetic flux in the pole plates to thereby cause initial movement of the arc.

2,616,008
COMPRESSED GAS CIRCUIT INTERRUPTER
Benjamin P. Baker, Turtle Creek, and Erling Frisch, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 17, 1950, Serial No. 150,262
9 Claims. (Cl. 200—148)



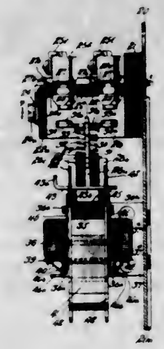
3. A circuit interrupter of the compressed gas type comprising: a tank for compressed gas; interrupting means; a blast tube pneumatically interconnecting the tank of compressed gas and the interrupting means; a differential type blast valve for controlling the flow of high pressure gas through the blast tube; means biasing the blast valve toward its closed position; and dump valve means for dumping the high pressure gas in back of the differential-type blast valve to the region within the blast tube.

2,616,009
MECHANISM FOR OPERATING A MOMENTARY SWITCH FOR AN ELECTRIC CIRCUIT
John O. Roeser, Chicago, Ill., assignor to The Exhibit Supply Co., Chicago, Ill., a corporation of Illinois
Application August 10, 1950, Serial No. 178,678
7 Claims. (Cl. 200—160)



1. A mechanism for momentarily closing a switch comprising a housing within which said switch is arranged, a plunger mounted for reciprocation in said housing, spring means engaging said housing and said plunger for moving said plunger relative to said housing in one direction, said plunger having a medial portion reduced to provide circumferential grooves and an enlarged portion separating said grooves, a lever having an end portion engaging a button of said switch, a slot and pin connection between the lever and the housing with the slot of said connection extending diagonally with respect to the lever, and a roller carried by the lever for riding engagement with said enlarged portion for movement into said grooves and adapted to engage with said enlarged portion when said plunger is moved in an opposite direction to bear said end portion against said button to close said switch and to move said lever transversely of the long axis of the pin of said connection when said plunger is moved in said one direction.

2,616,010
ELECTROMAGNETIC SWITCH
John Scheib, Jr., New York, N. Y., assignor to Ward Leonard Electric Company, a corporation of New York
Application January 20, 1948, Serial No. 3,345
5 Claims. (Cl. 200—166)



1. A contact mounting comprising an insulating support having a plurality of openings, a plurality of contact terminals carried thereby, said contact terminals extending downwardly through said openings and each having a lower rectangular-shaped portion with a contact at one end and an upper holding portion integral therewith, said openings in said support for the passage of each of said contact terminals being of rectangular form corresponding to the rectangular shaped portion of said contact terminals, each of said contact terminals having an intermediate cylindrical portion so that when the intermediate portion is within the support it may be turned angularly and cause the rectangular portion of the contact terminals to be in engagement with one side of said support, and a spring clip on the opposite side of said support and pressing upwardly against said holding portion for removably securing each of said contact terminals respectively to said support.

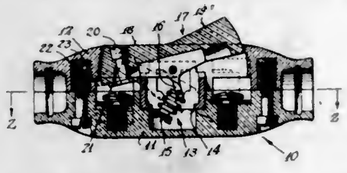
2,616,011
CIRCUIT BREAKER LEVER
Harold V. Elliott, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 2, 1949, Serial No. 85,172
6 Claims. (Cl. 200—166)



1. A circuit breaker arm formed from a single sheet of metal to provide a longitudinally extending stiffening rib, a hub, and two flat platform portions, one to support a contact, the oth-

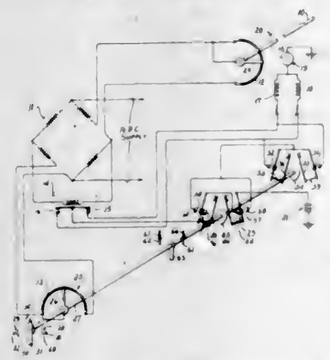
er a rubbing block, said other platform being apertured to expose the edge of the rib; a stud extending through said aperture and having a forked end straddling the rib to which the stud is welded; and an apertured rubbing block fitting over said stud which is peened over the block to secure the block to the arm.

2,616,012
LOCKING TEETER-BAR SWITCH
Arthur C. Gaynor, Stratford, Conn.
Application September 20, 1949, Serial No. 116,778
4 Claims. (Cl. 200—169)



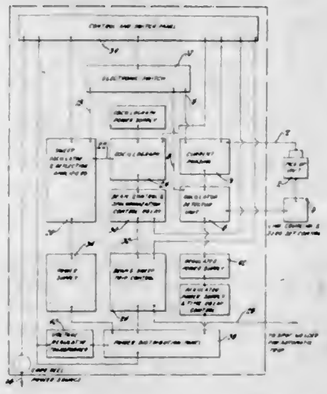
1. In an electric switch having a casing, a switch mechanism in the casing and a teeter bar mounted on the casing for movement between "on" and "off" positions, said bar actuating said mechanism, the improvement which comprises: cooperating means on portions of said teeter bar and casing, inaccessibly located within the casing, for releasably locking the bar in one of its positions on the casing, said means comprising a movable lug on the bar and a shoulder on the casing alongside the bar, engageable by said lug when the latter is projected from the side of the bar; a member movably mounted on one of said portions of the casing or teeter bar, said member being shaped and located to prevent its being grasped by hand and having means engageable by a key to move the member; and means controlling said movable lug in response to movement of said member.

2,616,013
CONDITION REGULATING APPARATUS
Theodore K. Greenlee, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application September 17, 1949, Serial No. 116,395
8 Claims. (Cl. 201—48)



1. In a condition regulating system, the combination of a shaft manually rotatable in opposite directions through a predetermined range between two angularly spaced positions, a variable resistance having an element fixed to said shaft and operable in the movement of the shaft between said spaced positions to increase the effective value of the resistance when the shaft is turned in one direction and to increase the effective value of the resistance when the shaft is turned in the opposite direction, two normally closed switches, means actuated by said shaft and operable to open the respective switches in response to movement of said shaft to predetermined positions disposed outwardly beyond said spaced positions, a pair of normally open switches, means on said shaft operable in the movement of the latter to one limit position outwardly beyond one of said predetermined positions to close one of said normally open switches and in the movement of the shaft outwardly beyond the other of said predetermined positions to close the other normally open switch, and stops yieldably opposing the movement of said shaft outwardly beyond said predetermined positions and operable when said shaft is released to return the shaft to one of said predetermined positions.

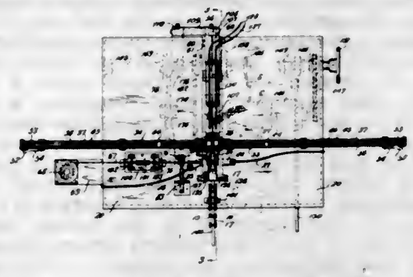
2,616,014
WELD ANALYZER
Robert O. Ellerby, Bloomfield Hills, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 26, 1948, Serial No. 11,249
7 Claims. (Cl. 219—4)



1. In indicating means for determining the different varying factors in the normal operation of a complex machine throughout its cycle of operation, means for translating operating factors into proportionate electrical voltages, a resonant tuned circuit connected to a part of the output of the translating means, an oscillator, a detector unit, coupling means connected between the oscillator and the detector, a low impedance transmission line inductively coupled between the tuned resonant circuit and the coupling means to introduce variations into the latter as the machine factor changes, and a cathode ray tube connected to the output of the detector to indicate such changes.

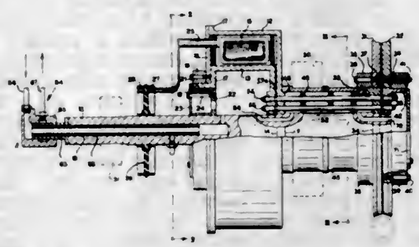
2,616,015
MACHINE FOR WELDING BATTERY PLATES
Carl R. Glasener, Cleveland, Alfred R. Willard, East Cleveland, and Carl R. Weller, Cleveland, Ohio, assignors to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application August 10, 1950, Serial No. 178,634
7 Claims. (Cl. 219—4)

1. In a welding machine for welding connectors to battery plates, means forming a guideway adapted to receive plates to be welded therein, an electrode of a welding circuit associated with the guideway and adapted to be contacted by a plate in the guideway, a reciprocating member in said guideway adapted to move plates along said guideway and position said plates in contact with said electrode, mechanism adapted



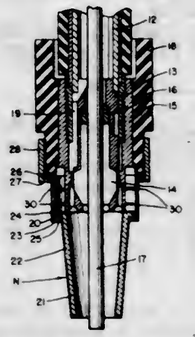
to feed a connector into position to be welded to a plate in contact with said electrode, a welding electrode adapted to be moved into engagement with the connector on the plate, and means for moving said reciprocating member, connector feeding mechanism and movable electrode in synchronism.

2,616,016
ROTARY ELECTRIC RESISTANCE WELDER
William E. Shenk, Hubbard, Ohio, assignor to The McKay Machine Company, Youngstown, Ohio, a corporation of Ohio
Application June 12, 1951, Serial No. 231,219
11 Claims. (Cl. 219—6)



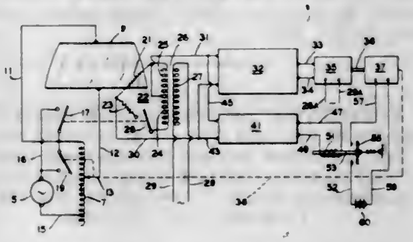
1. In a rotary electric resistance welder of the kind having a centrally disposed shaft for the support of the transformer and electrodes and a supporting bearing positioned axially intermediate the transformer and electrodes a secondary winding for said transformer having terminal portions in the form of axially adjacent but relatively insulated disc-like members seated on said shaft, means mounting a pair of wheel-type electrodes on the end of said shaft comprising a pair of disc-like mounting and conducting members seated on said shaft, a bearing-supporting sleeve concentrically disposed about said shaft and partially received in shoulders formed in the innermost pair of said members, said innermost members having a plurality of circumferentially spaced but axially aligned apertures disposed radially between said shaft and sleeve, metallic current conductive tubes having their end portions expanded in said apertures, the outermost of said members each having a plurality of outwardly tapering apertures therein aligned axially and circumferentially with said tubes, current conductive rods disposed concentrically within said tubes, annular current conductive wedges surrounding the end portions of said rods and partially received within said outwardly tapering apertures, and screw-threaded means on the ends of said rods to engage the outer ends of said wedges to draw the same inwardly while placing said rods under tension.

2,616,017
ELECTRODE HOLDER FOR USE IN INERT GAS-SHIELDED ARC WELDING
Nelson E. Anderson, Berkeley Heights, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application September 7, 1949, Serial No. 114,396
7 Claims. (Cl. 219—14)



1. An electrode holder for use in inert gas-shielded arc welding having means for transmitting electric current to an electrode and means for delivering a shielding gas around the tip of the electrode, said last-named means including a gas discharge nozzle comprising a tubular metal core having an interior and exterior highly refractory vitreous enamel coating.

2,616,018
TEMPERATURE CONTROL SYSTEM
Harry R. Karp, Newark, and Allen W. Blanchard, Allendale, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application June 17, 1949, Serial No. 99,764
6 Claims. (Cl. 219—20)



6. A control system for regulating the temperature of a transparent panel having a heater element embodied in the panel and a temperature sensitive element responsive to the temperature appurtenant to said panel; said control system comprising electric circuit means for supplying current to energize said heater element, variable speed power means responsive to said temperature sensitive element, a movable member for varying the current supplied said heater element through said circuit means, means for operatively connecting said power means to said movable member, control means for said power means to effect different speed ratios in response to said temperature sensitive element, and means for

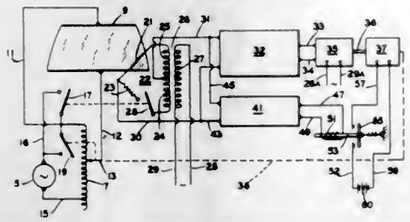
operatively connecting said control means to said temperature sensitive element to selectively effect a high speed ratio upon the prevailing temperature appurtenant to said panel being in excess of a predetermined value and a low speed ratio upon the prevailing temperature appurtenant to said panel being less than a predetermined value.

2,616,019

ELECTRIC HEATER CONTROL

Philip J. Guillot, Upper Montclair, and Harry R. Karp, Newark, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application June 17, 1949, Serial No. 99,765
4 Claims. (Cl. 219—20)



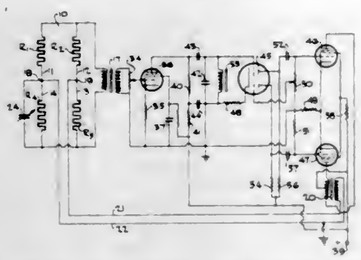
1. For use in a control system for regulating the temperature of a transparent panel having a heater element embodied therein, a temperature sensitive element responsive to the temperature appurtenant to said panel, motor means responsive to said temperature sensitive element, and a movable member for varying the voltage supplied said heater element; a power transmitter comprising an input shaft for connection to said motor means, an output shaft for connection to said movable member, a gear train for interconnecting said shafts, electromagnetic means selectively operable to lock said gear train so as to directly connect in driving relation the input shaft to the output shaft at one speed ratio and to release said locked gear train so as to cause said output shaft to be driven from said input shaft through said gear train at another and lower speed ratio, means for electrically connecting said electromagnetic means to said temperature sensitive element to cause said gear train to effect said different speed ratios in response to the prevailing temperature appurtenant to the panel.

2,616,020

AUTOMATIC TEMPERATURE CONTROL

Charles H. Fay and Richard R. Goodell, Houston, Tex., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application March 7, 1950, Serial No. 148,238
3 Claims. (Cl. 219—20)



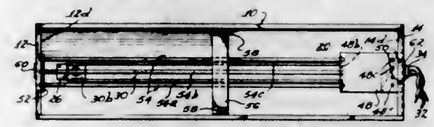
1. A thermostat system comprising heater resistor means connected to form a first pair of conjugate arms in a balancing bridge, second heater resistor means connected to form a second pair of conjugate arms in said bridge, the resistor means in the first pair of conjugate arms having a resistance respectively lower and higher than the resistor means in the second pair of conjugate arms at temperatures respectively lower and higher than a predetermined balance temperature, the resistor means in the first pair of conjugate arms having a temperature coefficient of resistivity larger than that of the resistor means in the second pair of conjugate arms, a tuned high-gain amplifier circuit comprising a phase inverter and a push-pull amplification stage having its input connected to the output of said bridge and its output connected to the input of said bridge, said tuned amplifier circuit being responsive to bridge unbalance voltages of proper polarity for supplying to the bridge variable amounts of oscillating heating current necessary for just maintaining the system in oscillation at the predetermined temperature.

2,616,021

ELECTRIC FOOD WARMER

Joseph William O'Brien, Los Angeles, Calif.

Application October 4, 1950, Serial No. 188,352
2 Claims. (Cl. 219—34)



1. An electrical device for radiating heat downwardly upon a determined area, comprising: a single upper member providing a concave heat reflective surface and a convex top; means secured to said member whereby said member is supported, concave side downward, at a determined distance above said area; a resistance heated metal bar like element arranged to extend longitudinally within said concave reflective member; means spacing said heating element from the reflective member; end walls secured to said reflective member; lead in wires secured to one end of said heating element and passing through an opening in an end wall; a heat deflecting partition secured to the concave member below the end of the heating element and said end wall; a case detachably secured to said end wall and extending over said heat deflecting partition and the leads secured to said heating element and provided with projections engaging against the reflective member but spacing the bottom wall of the case from said member, apertures being provided in the wall of the case to facilitate circulation of air therethrough; a bracket mounted on the end wall opposite to that to which the case is detachably secured; and a plurality of bendable rods mounted in alined holes in said bracket and case and constituting a guard for said heating element, said case being slidable on the ends of the rods projecting thereinto.

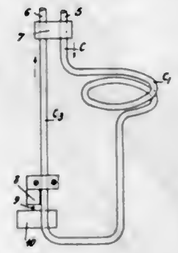
2,616,022

INSTANTANEOUS HEATING OF A FLUID CIRCULATING IN A TUBE

Henri Arnaud, Paris, France

Application January 4, 1949, Serial No. 69,201
In France January 6, 1948
2 Claims. (Cl. 219—38)

1. An electrical liquid heating apparatus comprising in combination an electric transformer provided with means for energizing its primary winding, a metallic tube comprising a coiled portion forming the secondary winding of said transformer, a rectilinear portion and a connecting portion connecting one end of the coiled portion and the rectilinear portion, a stationary support secured to said rectilinear portion, a lug secured to said rectilinear portion at a distance from said stationary support, means spaced from the connecting portion for electrically connecting



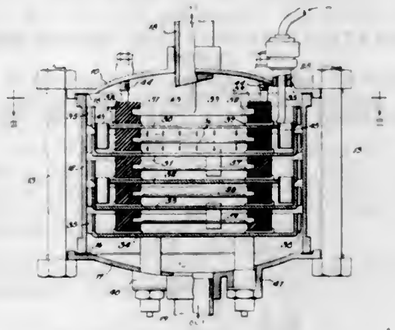
two points of said tube respectively before said coiled portion and after the part of said rectilinear portion to which said support and lug are secured to establish a secondary circuit consisting of the coiled portion, connecting portion, rectilinear portion and electrically connecting means, and switch means actuated by said lug for switching off the current in the primary winding of said transformer for a predetermined heat expansion of said rectilinear portion.

2,616,023

INSTANT LIQUID HEATER

Henry C. A. Meyer, Syracuse, N. Y.

Application June 22, 1950, Serial No. 169,707
12 Claims. (Cl. 219—38)



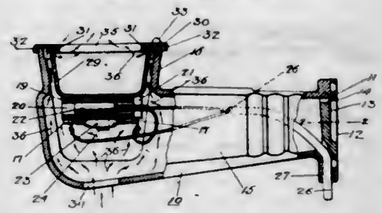
5. A steam generator comprising in combination: a container having water inlet and steam outlet openings; a plurality of pans disposed at different levels within said container with the uppermost of said pans being fed from said water inlet; overflow means for each superior pan feeding the next inferior pan; a radiant electric heating element positioned between each pair of adjacent pans to heat the bottom of the superior pan and the water surface of the inferior pan; a thermostatic switch including a responsive element disposed within said container abutting the lowermost pan and electric contacts controlled thereby; and an electric circuit including in series said heating element and the electric contacts of said thermostatic switch to control the application of power to said heating element in accordance with the temperature of said lowermost pan.

2,616,024

VAPORIZER FOR INSECTICIDES AND THE LIKE

Jules Laibow, Merchantville, N. J., assignor to Cardinal Chemical Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application June 20, 1951, Serial No. 232,539
4 Claims. (Cl. 219—44)



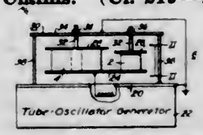
1. In a vaporizer for insecticides and the like, a generally horizontal housing having a generally upright open-top bowl formed at its end, a generally disc-shaped hot-plate horizontally positioned within said bowl and removable therefrom, said hot-plate being disposed at a level substantially below the top of the bowl but substantially above the bottom thereof, said hot-plate having a radial opening formed therein, a self-contained generally cylindrical cartridge-type electrical heating element removably positioned within said radial opening, a self-contained thermostat-unit connected to the underside of the hot-plate and removable from the bowl therewith, said thermostat-unit being operatively connected to the heating-element so as to make and break the electrical circuit thereto and thereby to maintain the hot-plate within a predetermined temperature range, and a cup for insecticide or the like removably disposed within the upper portion of the bowl above the hot-plate, the cup being spaced away from the inner wall of the bowl to provide an annular clearance therebetween, the bowl having a bottom opening formed therein, whereby air can enter the bowl and pass upward through the bowl by convection across the hot-plate and through said annular clearance, to emerge from the open-top of the bowl.

2,616,025

BATCH DIELECTRIC HEATING

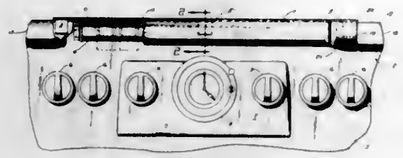
Theodore P. Kinn, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 20, 1947, Serial No. 736,000
3 Claims. (Cl. 219—47)



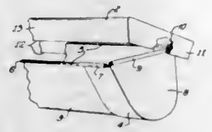
2. For the simultaneous dielectric heat treatment of a plurality of workpieces, the combination of, at least a first heating electrode, a second heating electrode and a third heating electrode, said second and third heating electrodes being at substantially the same electrical potential, the second and third heating electrodes being commonly positioned in the same direction away from the first heating electrode and respectively in a cooperative heating relationship to the first heating electrode, means for individually preadjusting the relative spacing between said second and first heating electrodes, and means for individually preadjusting the relative spacing between said third and first heating electrodes.

2,616,026
RANGE LIGHT REFLECTOR SHIELD
William Richard Crawford, Park Hills, Ky., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application January 31, 1950, Serial No. 141,481
7 Claims. (Cl. 240—2)



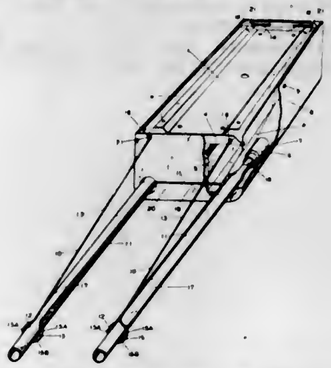
1. In combination with an appliance, a hollow backguard provided with forwardly convexly curved horizontal end portions near the top of its forward face; a light source secured to the forward face between the curved portions; an elongated reflector shield conforming at its ends to the curved configuration of the top portion of the backguard and provided with a curved forward portion in reflecting relationship with said light source, and electric fuses disposed within the backguard, said backguard being formed to define an opening through which said fuses may be removed, said opening being positioned adjacent said light source for coverage by said reflector shield when assembled with said backguard.

2,616,027
LIGHTING FIXTURE FOR ELONGATED TUBULAR LAMPS
Donald Wilman, London, and Ronald Augustus Clarke, Isleworth, England, assignors to General Electric Company, a corporation of New York
Application May 17, 1949, Serial No. 93,682
In Great Britain June 11, 1948
4 Claims. (Cl. 240—51.11)



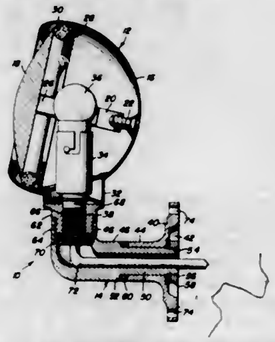
1. In a lighting fixture of the type having an elongated housing provided with a longitudinal opening defined by side walls and end walls, illuminating means supported by said housing and an elongated cover for the opening in the housing and supported by said housing, that improvement in the mounting of the cover on the housing which comprises end caps mounted on the cover and movable longitudinally thereof into a first position in which the overall length of said cover and said caps is less than the length of said opening to facilitate mounting and dismounting said cover and into a second position in which the caps engage the end walls of the opening, and interlocking support means on the said caps and on the inner side of the end walls of said opening, said means being engageable when said caps are in said second position and being disengageable by inward movement of the cover with respect to the housing.

2,616,028
HANGING BRACKET FOR ILLUMINATING TUBES
Elwood Wiles, Portland, Oreg.
Application June 26, 1950, Serial No. 170,397
3 Claims. (Cl. 240—51.12)



1. A bracket for supporting fluorescent light tubes extending from lighting fixtures, comprising a single strand having its central portion bent into a U-shape with the branches thereof substantially parallel, the portions of said strand at the end of said branches being bent outwardly into depending loops disposed in planes perpendicular to said branches for receiving the tubes, the portions of said strand at the outer ends of said loops being bent to form hangers extending upwardly at an acute angle to the plane of the central U-shaped portion and having at their ends hanger means which are securable to the fixture, whereby the U-shaped portion will abut the fixture between the tubes with the depending loops supporting the tubes.

2,616,029
ROTATABLE SUPPORTING MEANS FOR LAMPS
Baltazar J. Osowski, Cicero, Ill., assignor of one-half to Frank E. Stacknik, Cicero, Ill.
Application October 27, 1948, Serial No. 56,787
3 Claims. (Cl. 240—52)



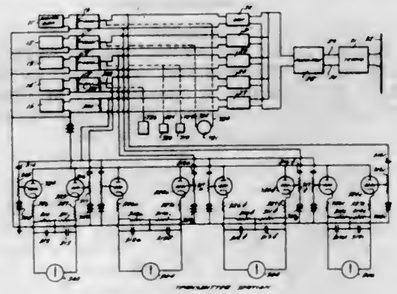
1. In a lamp having an externally threaded tubular mounting sleeve rigidly attached thereto and extending therefrom; an adjustable lamp bracket comprising an "L" shaped support arm having an axial bore therethrough, said arm having an internally threaded outer end and an externally threaded inner end, a collar having an axial bore therethrough for rotatably receiving said tubular mounting sleeve, said collar having an externally threaded end portion, said externally threaded end portion of said collar being screw threadedly received in said internally threaded outer end of said support arm, a retaining nut rotatably disposed in said bore in said arm and underlying the inner end of said collar for retaining the lamp mounting sleeve in the bore in the collar, a flange having an axial bore therein rotatably receiving said inner end of said support arm, a lock nut threadedly received on said externally threaded inner end of said arm retaining said flange in engagement with said arm.

2,616,030
LIGHT INTENSIFYING ATTACHMENT FOR ELECTRIC BULBS
Frank G. Van Dyke, Detroit, Mich.
Application June 17, 1949, Serial No. 99,780
3 Claims. (Cl. 240—151)



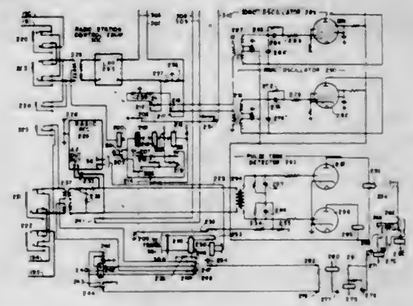
1. A device of the class described comprising a collar having a lip extending radially inwardly around one end margin, a lens seated on said lip, straps extending radially inwardly from the wall of said collar into overlying relationship with the margin of the lens on the side opposite said lip whereby removal of the lens from the collar in either direction is precluded, and resilient supporting arms having leg portions detachably engaged in said straps, said supporting arms being spaced and adapted to embrace an incandescent light bulb.

2,616,031
TRANSMITTER FOR GUIDED AIRCRAFT CONTROLS
Paul W. Nosker, Yellow Springs, Ohio
Original application December 11, 1946, Serial No. 715,595, now Patent No. 2,515,254, dated July 18, 1950. Divided and this application August 12, 1949, Serial No. 110,016
2 Claims. (Cl. 250—2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a transmitting system for the remote control of missiles, a generator of reference signal having output leads, a plurality of generators of control signal, each of said generators having output leads and producing an output wave of constant frequency and constant amplitude, no two frequencies being the same, a constant load resistor connected across the output leads of the reference signal generator, a first potentiometer and a second potentiometer for each control signal generator, each potentiometer being connected across the output leads of its generator of control signal, a resistor connected between a movable tap on each first potentiometer and a fixed tap on the respective second potentiometer, the variable tap on the first potentiometer constituting means to provide for unsymmetric shunting of the halves of the second potentiometer whereby to make the electrical center of the second potentiometer differ from its geometrical center in order to produce a trim control for the controlled missile, a mixing circuit connected to the output terminals of said second potentiometer for each control signal generator and to said load resistor, means under the control of an operator whereby the second potentiometer may be actuated to vary from zero to maximum that fraction of the output of its signal generator intended for delivery to the mixing circuit, a modulator connected to the mixing circuit, and a radio transmitter coupled to the modulator and to an antenna.

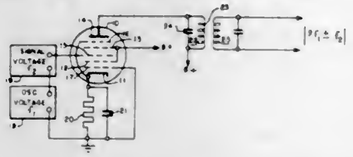
2,616,032
SINGLE CHANNEL MOBILE TELEPHONE SYSTEM
Roswell H. Herrick, Lorain, Ohio, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application October 20, 1948, Serial No. 55,627
23 Claims. (Cl. 250—6)



1. In an automatic telephone system, an exchange, a plurality of fixed subscriber stations and a plurality of mobile subscriber stations, a fixed single-channel radio transmitter and a receiver associated with said exchange, a mobile single-channel radio transmitter and a receiver at each said mobile station, means responsive to the dialling of the call number of any of said mobile stations from any of said fixed stations for directively calling and signalling only the called mobile station by way of said exchange and said fixed transmitter and said called station's receiver, means responsive to the dialling of the call number of any of said fixed stations from any of said mobile stations for directively calling and signalling only the called fixed station by way of said mobile transmitter and said fixed receiver and said exchange, a carrier wave generated by each of the fixed and mobile station transmitters involved in such a call, means for maintaining said carrier waves on the air continuously for the duration of the call and carrier responsive means at said mobile stations

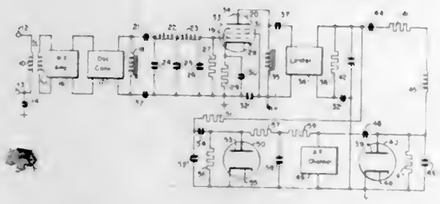
for guarding such calls from intrusion and listening in, by any of said mobile subscriber stations except the calling or called mobile station.

2,616,033
CONVERTER
Robert Adler, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application December 24, 1948, Serial No. 67,231
12 Claims. (Cl. 250—20)



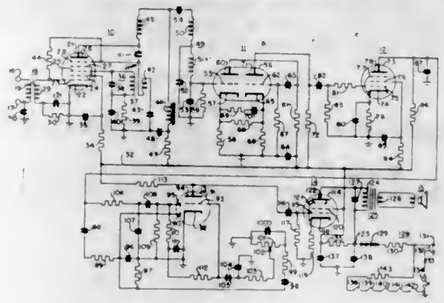
1. A frequency converter comprising: an electron discharge device having a cathode, a control system comprising an accelerating electrode followed by a control grid, and an anode; an input circuit coupled to said grid and said cathode and comprising a source of oscillatory voltage of a first frequency and a source of signal voltage of a second frequency; and an output circuit coupled to said anode and said cathode and selective to a frequency corresponding to an intermodulation product of said second frequency and the second harmonic of said first frequency.

2,616,034
RADIO RECEIVING APPARATUS
Robert Adler, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application December 29, 1948, Serial No. 67,985
5 Claims. (Cl. 250—20)



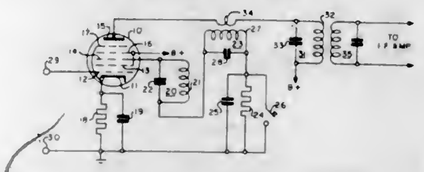
1. Apparatus for receiving signal information from any one of a plurality of frequency modulated carrier waves having a minimum carrier frequency separation of a predetermined value and individually including desired modulation components within a frequency band having a width less than one-half of said predetermined value, said apparatus comprising: an intermediate-frequency channel consisting entirely of aperiodic circuits and including a low-pass filter selective to an intermediate-frequency band having a width substantially equal to that of said modulation component frequency band and centered with respect to a frequency of substantially one-quarter of said predetermined value; an audio-frequency amplifier; and a frequency detector coupled between said intermediate-frequency channel and said audio-frequency amplifier and including a frequency-responsive discriminator network which is substantially unresponsive to frequencies above said intermediate-frequency band and which has a voltage output versus frequency characteristic which is substantially linear throughout said intermediate-frequency band.

2,616,035
RADIO RECEIVER EMPLOYING A SINGLE TUBE AMPLIFIER-CONVERTER
Robert Adler and John G. Spracklen, Chicago, Ill., assignors to Zenith Radio Corporation, a corporation of Illinois
Application December 30, 1948, Serial No. 68,286
8 Claims. (Cl. 250—20)



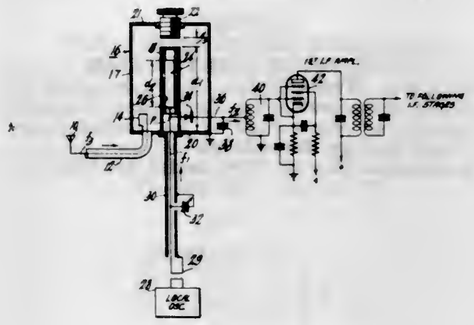
1. A single-tube amplifier-converter comprising: an electron discharge device having in the order named a cathode, an input grid, a control system comprising an accelerating electrode followed by a control grid, and an anode disposed across a common electron path; an input circuit including said input grid and said cathode for receiving an input signal having desired modulation components within a predetermined signal frequency band; an oscillating system including said discharge device for producing a heterodyning frequency signal; only one parallel resonant circuit, said parallel resonant circuit being included in said oscillating system, tuned to said heterodyning frequency, and coupled to said control grid and said cathode; and an aperiodic output circuit, including a low-pass filter, coupled to said anode and to said cathode and selective to an intermediate frequency band having a width at least equal to that of said signal frequency band and comprising exclusively frequencies lower than one-half of the product of the mean effective transconductance within said signal frequency band of said input grid with respect to said control grid, the mean branch reactance of said parallel resonant circuit, and said heterodyning frequency, whereby an amplified replica of said input signal is developed at said control grid by virtue of space charge coupling from said input grid to said control grid and frequency conversion is effected by intermodulation of said heterodyning frequency signal and said amplified replica of said input signal.

2,616,036
SIGNAL TRANSLATING APPARATUS
Robert Adler, Chicago, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application December 29, 1948, Serial No. 69,341
15 Claims. (Cl. 250—20)



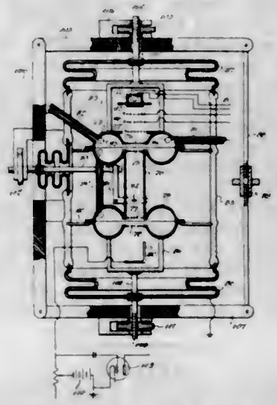
1. An amplifier-converter comprising: an electron discharge device including in the order named a cathode, an input grid, an accelerating electrode, a control grid, and an anode disposed across a common electron path; an input circuit including said input grid and said cathode for receiving a radio frequency input signal; a circuit from said control grid to said cathode including a two-terminal load circuit having one terminal coupled externally of said device to said control grid only and having an impedance at the frequency of said input signal at least equal to the reciprocal of the effective transconductance, at said input-signal frequency, of said input grid with respect to said control grid for developing an amplified signal at said input-signal frequency by space charge coupling from said input grid and for impressing said amplified signal on said control grid; means including a tuned circuit for cyclically varying at a heterodyning frequency the transconductance of said control grid with respect to said anode; and an output circuit coupled to said anode and said cathode and selective to a frequency corresponding to an intermodulation product of said input-signal frequency and said heterodyning frequency.

2,616,037
HIGH-FREQUENCY MIXER CIRCUIT
Benjamin F. Wheeler and Howard R. Mathwich, Haddonfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application April 28, 1950, Serial No. 158,626
11 Claims. (Cl. 250—20)



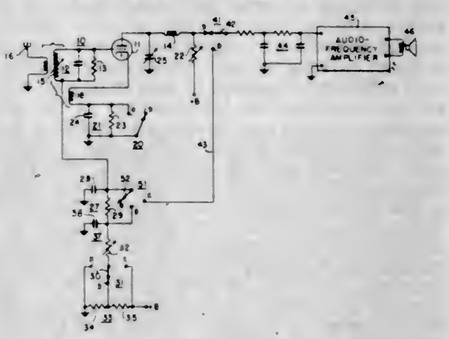
1. A harmonic mixer comprising a coaxial resonator having hollow inner and outer conductors connected together at one end, a third conductor within said hollow inner conductor and extending along the length thereof, dielectric means spacing said third conductor from said inner conductor, means for exciting said resonator with energy of predetermined frequency, a connection for supplying one end of said third conductor with oscillations of a frequency which is less than one-half said predetermined frequency, a non-linear detector in said resonator connected between said one end of said third conductor at a point P and a connection adapted to extend externally of said resonator, said third conductor having an effective electrical length at said predetermined frequency which provides a low impedance at such frequency between the point P and said inner conductor.

2,616,038
FREQUENCY CONVERTER
William W. Hansen, Stanford University, and Russell H. Varian, Cupertino, Calif., assignors to The Board of Trustees of the Leland Stanford Junior University, Stanford University, Calif., a corporation of California
Application September 19, 1942, Serial No. 459,040, which is a division of application Serial No. 185,382, January 17, 1938, now Patent No. 2,415,094, dated February 4, 1947. Divided and this application September 23, 1947, Serial No. 775,648
8 Claims. (Cl. 250—20)



1. Means for detecting electromagnetic waves comprising a cavity resonator having opposed electron permeable walls, said resonator having at least one reentrant wall portion, means for producing a beam of electrons directed through said resonator, means for introducing said waves into said resonator to excite a field therein to change the velocities of electrons in the said beam and means for translating the variation of electron velocities into a detected signal corresponding to the said waves.

2,616,039
SELF-QUENCH SUPERREGENERATIVE RECEIVER
Donald Richman, New York, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 28, 1947, Serial No. 788,765
6 Claims. (Cl. 250—20)



1. A self-quench superregenerative receiver comprising: a regenerative circuit adapted to

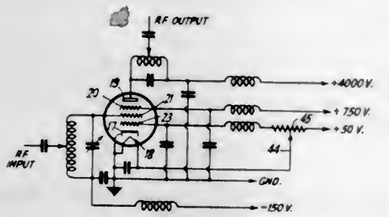
have a modulated wave signal applied thereto and including a regenerator tube having anode, cathode, and control electrodes; self-quench means coupled to said cathode electrode and having a periodic potential developed thereacross in response to an electrode-current flow of said regenerator tube for effecting periodic self-quenching of said regenerative circuit to provide superregenerative amplification of said applied wave signal; the parameters of said circuit and said self-quench means being so proportioned that the oscillatory amplitude of said circuit extends to a saturation-level mode of operation thereof during an interval of each quench cycle; an electrical time-constant network, having a time constant longer than that of said self-quench means and the periodicity of the lowest frequency modulation components of said applied wave signal, coupled in circuit with said regenerative circuit between said control electrode and cathode and responsive to control-electrode current of said regenerator tube flowing only during said saturation-level intervals to develop across said network for application to said control electrode a gain-control potential effective to stabilize the operating characteristics of said receiver against operating conditions which tend to modify the average self-quench periodicity of said receiver; and means coupled to said self-quench means for utilizing the modulation components of said applied wave signal derived thereby.

2,616,040

ELECTRICAL SYSTEM FOR PROLONGING LIFE OF COATED CATHODES

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application September 24, 1948, Serial No. 51,035
5 Claims. (Cl. 250—27)



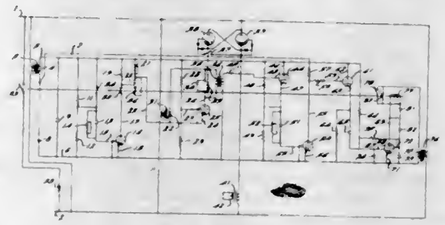
1. In an electronic system including an electron discharge device having an oxide coated cathode, means for preventing evaporation of the cathode coating, said means comprising a system for drawing emission current from said cathode during active and inactive periods of said device, said system including a grid adjacent said cathode and a direct current voltage supply more positive than said cathode connected to said grid; and a system for maintaining the temperature of the cathode constant during said active and inactive periods, said last named system comprising a heater for said cathode and a connection between said heater and said grid, said connection including a resistance element for predetermined ohmic valve for adjusting the power supply to said heater to a lower magnitude during said inactive periods than during said active periods, said grid drawing emission current during said inactive periods and being heated thereby, said cathode being heated by radiation from said grid and by said lower magnitude power supply to the temperature assumed thereby during said active periods.

2,616,041

NONREPEAT CONTROL CIRCUIT

Ernest G. Anger, Wauwatosa, and Robert C. Mierendorf, Milwaukee, Wis., assignors to Square D Company, Detroit, Mich., a corporation of Michigan

Application March 7, 1950, Serial No. 148,192
9 Claims. (Cl. 250—27)



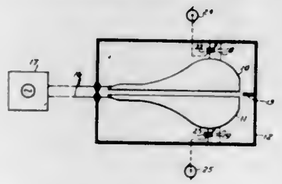
1. In a non-repeat circuit arrangement, a source of voltage, a normally open switch, a capacitor, an electronic tube, means connecting said electronic tube across said source of voltage through said switch, means connecting said capacitor across said source of voltage through said switch, said last mentioned means including a path through said electronic tube, said capacitor charging through said switch and path when the tube becomes non-conducting at the termination of a control cycle and applying a bias to maintain cut-off of said tube until said switch is opened, and means responsive to current flow through said electronic tube for initiating a control cycle.

2,616,042

STABILIZER ARRANGEMENT FOR CYCLOTRONS AND THE LIKE

Robert Ray Weeks, Upton, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission

Application May 17, 1950, Serial No. 162,493
16 Claims. (Cl. 250—27)



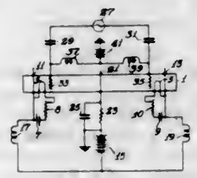
2. In a system of the type described, the combination of a space discharge having a pair of electrodes for operation at a selected frequency and with an electrically symmetric balance with respect to a predetermined fixed base potential, a source of oscillations for exciting said electrodes at said frequencies, means including a comparison frequency source and a mixer to derive a first error signal corresponding to departure of said source from said selected frequency, means including a discriminator for producing a balance signal proportionate to the relative unbalance of said electrodes with respect to said base potential to derive a second error signal corresponding to the departure of said electrodes from electrical balance, frequency adjusting means for said source, and follow-up circuits responsive to both said error signals for automatically adjusting said frequency adjusting means and for automatically maintaining said electrodes electrically balanced, the last-mentioned means including a follow-up motor and a frequency discriminator detector to which both said error signals are applied, and circuit connections for controlling said motor by the output of said detector.

2,616,043

ELECTRONIC OSCILLATORY DEVICE

Henry Murray O'Neill, Pompton Plains, N. J.

Application February 16, 1946, Serial No. 648,125
4 Claims. (Cl. 250—27)



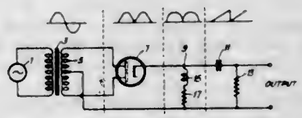
2. An electronic resonator comprising an elongated evacuated envelope, electron emitting means within said envelope, a plurality of electron reflecting plate means at least partly inside said envelope and disposed perpendicularly to the length of said elongated envelope, anode means having at least one surface exposed to the inside of said envelope and a current source connected to said electron emitting means, said electron reflecting plate means and said anode means with such polarity that electrons tend to move from said electron emitting means toward said anode means, and oscillation generating means connected to said electron reflecting plate means.

2,616,044

SAWTOOTH WAVE VOLTAGE GENERATOR

Kurt Schlesinger, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application July 25, 1946, Serial No. 686,167
1 Claim. (Cl. 250—27)



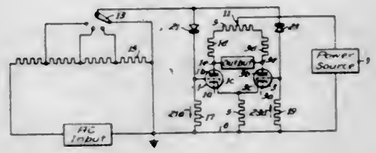
A system for producing sawtooth voltage variations comprising an input transformer having a center tapped secondary winding, a full wave rectifier including a cathode and a pair of anodes, means for connecting the anodes to opposite ends of said secondary winding, a load element connected between said cathode and said center tap on the secondary winding, said load element having inductance and resistance connected serially, a differentiating network including a series connected condenser and resistance, means for connecitng said differentiating network in parallel with at least a portion of said load element, a pair of output terminals connected across the resistance element of said differentiating network, means to apply voltage variations of substantially sinusoidal wave form to the anodes of said full wave rectifier whereby voltage variations of parabolic wave form are present across said differentiating network, so that voltage variations of substantially sawtooth wave form are available at said output terminals.

2,616,045

ELECTRICAL CONVERTER

Wilson M. Brubaker, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 2, 1947, Serial No. 751,876
8 Claims. (Cl. 250—27)



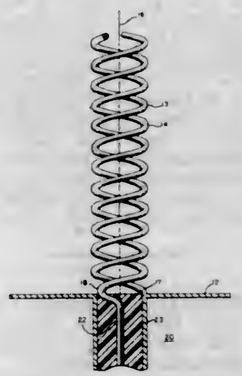
1. In an electrical converter, first circuit means for establishing first and second current flows, input means, second circuit means for increasing the first current flow in accordance with alternate half cycles of an alternating quantity applied to the input means, third circuit means for decreasing the second current flow in accordance with the remaining half cycles of the alternating quantity, and output means for providing an output dependent on the difference between the magnitudes of the first and second current flows.

2,616,046

MULTIELEMENT HELIX ANTENNA

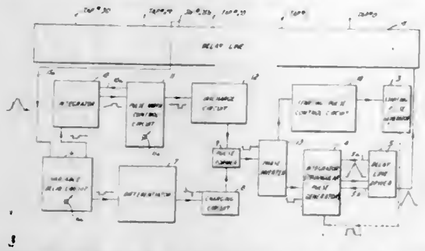
Arthur E. Marston and Mack Donald Adcock, Washington, D. C.

Application December 1, 1949, Serial No. 130,575
4 Claims. (Cl. 250—33.51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



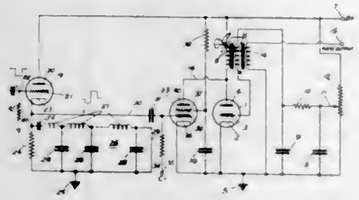
1. An end-fire helical beam antenna system comprising a plurality of similar, resonant helical filament antennas interwound in the same direction about a common axis, each filament having a turn diameter greater than the turn pitch and being such that one turn length thereof substantially equals one wavelength at the operating frequency, one end of said filaments being open to cause said antenna to resonate at said operating frequency and the other end of said filaments being terminated in a feed system to produce a symmetrical single-lobe pattern of circularly polarized radiation.

2,616,047
PULSE GENERATOR
Wilson P. Boothroyd, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application March 13, 1948, Serial No. 14,691
7 Claims. (Cl. 250—36)



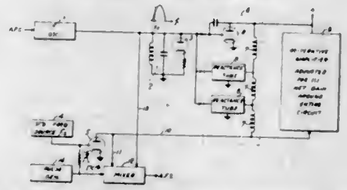
1. In a circuit for generating a series of evenly spaced pulses of substantially triangular shape separated by spaces longer than said pulses, said circuit comprising: a first means responsive to the application thereto of a control pulse for generating a pulse of changing amplitude; a delay line having a delay time longer than the length of each of said pulses, said delay line being connected to receive a signal from said first pulse generating means; an amplitude-sensitive circuit adapted to transmit only those parts of signals applied to it which are on one side of a predetermined amplitude level, said amplitude-sensitive circuit being connected to receive a delayed signal from said delay line; an energy storage device; a circuit connected to receive a signal from said amplitude-sensitive circuit, and adapted to change the amount of energy stored in said storage device by a predetermined amount in one direction upon receiving a signal from said amplitude-sensitive circuit; a second means for generating a pulse of changing amplitude upon the application thereto of a control signal, said last-named means being connected to receive a signal from said amplitude-sensitive circuit; a second amplitude-sensitive circuit connected to receive a signal from said second pulse generating means, and adapted to change the energy stored in said storage device by the said predetermined amount, and in the direction opposite to the above-mentioned direction, upon the signal from said changing amplitude pulse generator reaching a predetermined amplitude; and means for applying a control signal derived from said energy storage device to said first pulse generating means.

2,616,048
RELAXATION OSCILLATOR CIRCUITS
Milton D. Rubin, Dorchester, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application March 23, 1948, Serial No. 16,467
7 Claims. (Cl. 250—36)



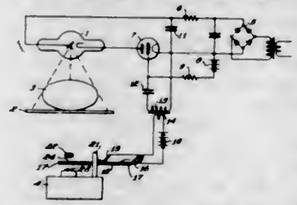
1. In combination, a relaxation oscillator having a natural frequency of oscillation and including an electron tube with anode and cathode and having a control grid element which undergoes a periodic variation in voltage of which a portion in each cycle changes gradually from a potential level below cut-off to a potential level at cut-on, means for generating periodically at a synchronizing frequency close to said natural frequency a voltage impulse having first and second immediately consecutive parts of opposite sense with an abrupt voltage change at their juncture, and means for superimposing said impulse upon said portion with said first part in opposition to the change in grid voltage toward said cut-on potential level.

2,616,049
AUTOMATIC FREQUENCY CONTROL
Robert S. Bailey, Bayside, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application July 9, 1949, Serial No. 103,925
7 Claims. (Cl. 250—36)



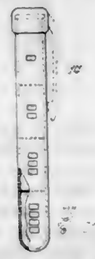
1. An automatic frequency control arrangement comprising a first source of oscillations, an oscillation source of standard frequency, a delay line, means coupled to said standard frequency source and said delay line for applying oscillations from said source of standard frequency to said delay line in pulsed form, means coupled to the input and output of said line for recycling pulses of oscillations through said line to produce a phase shifting of said pulsed oscillations that increases with each recycling, frequency discriminating means coupled to the output of said first source for producing an output voltage proportional to the deviation of the frequency of said oscillations over a given frequency, means responsive to said output voltage to vary the delay of said line, and means coupled to said first source and said recycling means for comparing the phase of the oscillations from the standard frequency source with the phase of the recycled pulsed standard frequency oscillations to provide a voltage for controlling the frequency of said first source.

2,616,050
X-RAY MOTION-PICTURE PHOTOGRAPHY
Fitz-Hugh B. Marshall, Glenshaw, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1947, Serial No. 776,484
12 Claims. (Cl. 250—65)



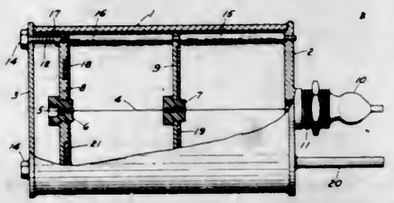
1. In combination an X-ray source a fluorescent screen positioned in the path of said X-rays, means for supporting an object to be irradiated by X-rays from said source, means for causing said source to irradiate said object for a time short compared with the phosphorescent period of said screen, an optical system traversed by light from said fluorescent screen, and a shutter for said optical system adapted to interrupt light passage therethrough except during a period synchronized with said X-ray pulses and which is confined to the said short-time portion of said phosphorescent period.

2,616,051
THERMOLUMINESCENCE RADIATION EXPOSURE METER
Farrington Daniels, Madison, Wis., assignor to Wisconsin Alumni Research Foundation, Madison, Wis., a corporation of Wisconsin
Application May 31, 1949, Serial No. 96,317
5 Claims. (Cl. 250—83)



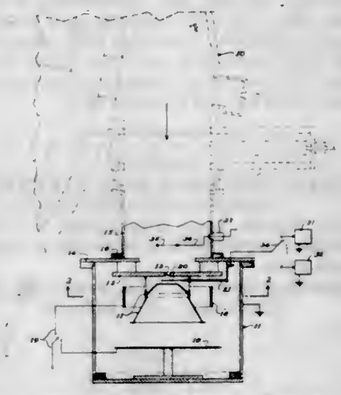
1. A radiation exposure indicator comprising, in combination, a carrier, a plurality of materials having different predetermined thermoluminescence-radiation thresholds, and means for supporting said materials on said carrier, each of said plurality of materials being separated from each of the other of said plurality of materials whereby the effect of radiation on each of the materials may be observed.

2,616,052
FAST NEUTRON DOSIMETER
George S. Hurst, Oak Ridge, Tenn., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application February 7, 1951, Serial No. 209,749
6 Claims. (Cl. 250—83.6)



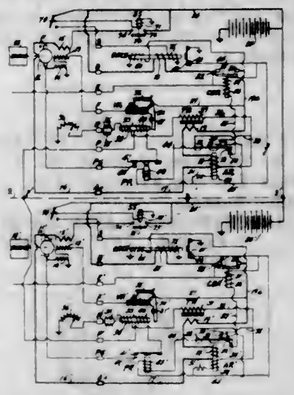
2. A fast neutron dosimeter comprising an envelope defining all save one wall of a counter chamber, an electrode disposed axially within said envelope, an hydrogen-bearing counter-filling gas, a first plane hydrogenous slab forming said one wall, one surface of a metallic sheet disposed adjacent the outside of said one wall, and a second plane hydrogenous slab of substantially greater thickness and smaller surface area than said first slab disposed adjacent the reverse surface of said sheet.

2,616,053
METHOD AND APPARATUS FOR MEASURING BEAM CURRENT
Marshall G. Holloway, Ithaca, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application November 7, 1945, Serial No. 627,268
3 Claims. (Cl. 250—83.6)



1. The combination with a charged particle accelerating device having an exit aperture to permit the emergence of the charged particle beam therefrom, and a target zone, of a continuous loop electrode, means supporting said electrode between said exit aperture and said target zone and in a position to permit the emergent charged particle beam to pass through the zone defined by said loop, and electronic indicating means electrically connected to said electrode and to an equipotential point on said accelerating device whereby it is responsive to the phenomena detected thereby.

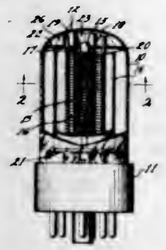
2,616,054
GENERATOR CONTROL
William J. Rady, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 13, 1951, Serial No. 215,272
5 Claims. (Cl. 290—31)



1. In a control system for battery charging and engine starting the combination comprising a storage battery, a generator having a shunt field winding for the generating function and a series field winding for the starting function, a relay having contacts for connecting the generator with the battery and a magnet coil which,

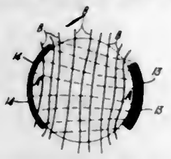
when energized, effects contact closure, an energizing circuit for said magnet coil comprising two sets of contacts in series one set being normally closed and the other normally open, means responsive to application of a certain voltage across the generator armature for closing the normally open contacts to effect energization of said magnet coil to connect the generator with the battery, means for connecting the battery with the starting field winding and armature for the engine starting function and means responsive to the operation of said first means for opening the normally closed contacts of the energizing circuit of the magnet coil.

2,616,055
HEAT RADIATOR FOR ELECTRON DISCHARGE DEVICES
Robert C. Fortin, Lake Hopatcong, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 29, 1950, Serial No. 158,969
15 Claims. (Cl. 313—42)



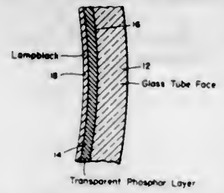
1. An electron tube mount including an electrode assembly and a stem on which one end of said assembly is supported, and a plurality of heat radiators mounted on the other end of said assembly and disposed in an array transversely of said assembly, one of said radiators being centrally positioned of said assembly and others of said radiators being disposed adjacent outer portions of said assembly, said one of said radiators being tubular, said others of said radiators each comprising two angularly disposed planar portions, the surfaces of said radiators being out of face registry for efficient heat radiation therefrom, said portions being tapered at one end thereof for reducing the effective length of said mount.

2,616,056
UNSYMMETRICAL DEFLECTION YOKE
Robert R. Thalner, Buffalo, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application February 9, 1951, Serial No. 210,167
4 Claims. (Cl. 313—75)



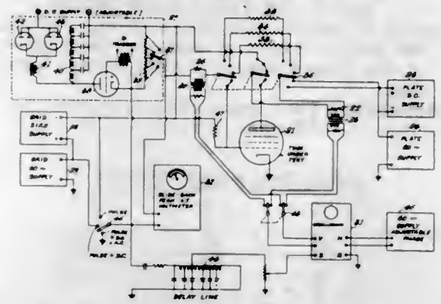
1. A magnetic scanning yoke for a cathode-ray tube comprising a pair of winding sections of saddle-shaped configuration adapted to saddle opposite sides of the neck of said tube with skirt portions of said sections extending longitudinally of said neck and end portions of said sections partially encircling said neck, the skirt portions of one winding section approximately abutting individual ones of the skirt portions of the other winding section and adjacent skirt portions on one side of said neck having less radial depth and greater circumferential width than on the other side of said neck.

2,616,057
BLACK SCREEN TELEVISION CATHODE-RAY TUBE
John W. Coltman, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1950, Serial No. 163,121
13 Claims. (Cl. 313—92)



1. In combination: a cathode ray tube having a tube face and electrodes for producing an electron beam; a fluorescent layer precipitated on the internal side of said tube face to form a transparent glassy layer thereon; and a coating of light absorbent material, of such thickness that the operation of said electron beam is not impaired, adjacent said fluorescent layer on the opposite side of said fluorescent layer from said tube face.

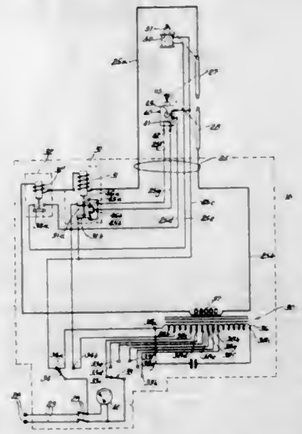
2,616,058
TRACING CHARACTERISTIC CURVE OF ELECTRONIC TUBES
Herbert M. Wagner, Asbury Park, N. J.
Application September 12, 1950, Serial No. 184,509
42 Claims. (Cl. 213—371)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for automatically displaying on an oscilloscope a curve representing the current of an electrode of an electronic tube as a function of the voltage of the same or another electrode of said tube comprising: means for applying a first voltage, with an alternating component whose crest to trough value is equal to the variation of electrode voltage for which the characteristic is to be taken, to that electrode of said tube whose voltage is to constitute one variable of the curve; means for applying a second, direct voltage, sufficient to render said tube non-conductive for all values of said first voltage, to any electrode of said tube; means for applying voltage

pulses, of a magnitude sufficient to render said tube conductive periodically, to the same electrode to which said second voltage is applied; an oscilloscope; means for applying a voltage proportional to said alternating component to one deflection system of said oscilloscope; and means for applying a voltage proportional to the current of any electrode of the tube to the other deflection system of said oscilloscope.

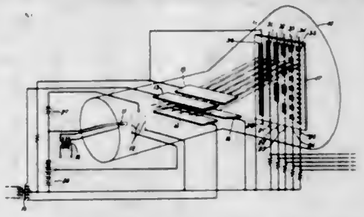
2,616,059
ARC LAMP
Harold R. Benson, Maywood, Ill., assignor to NuArc Company, Chicago, Ill., a corporation of Illinois
Application March 3, 1950, Serial No. 147,560
17 Claims. (Cl. 314—51)



1. In an arc lamp comprising a pair of electrodes between which an arc is adapted to be drawn, the combination of a pair of electrode carriages each capable of supporting one of said electrodes, an electric motor for moving said carriages simultaneously in opposite directions to control the arc space between said electrodes, a power circuit connected to said electrodes, an electromagnet for moving one of said electrodes relative to the other, a relay including a winding connected in series with said power circuit, means responsive to operation of said relay for energizing said electromagnet to move said one electrode, and arc current responsive means for controlling the energization of said electric motor to cause simultaneous movement of said electrodes in a manner to tend to maintain constant the arc current flowing between said electrodes.

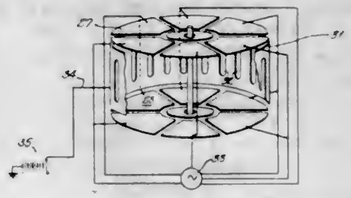
2,616,060
CATHODE-RAY CODING TUBE
William M. Goodall, Oakhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 3, 1948, Serial No. 37,035
9 Claims. (Cl. 315—21)

1. A continuous coding tube for continuously representing the magnitude of an applied signal wave by means of code groups of signaling conditions each of which may be any one of a plurality of different potential conditions comprising a source of electrons, electron beam forming elements for forming a thin sheet of electrons, a coding apertured target plate having coded apertures arranged in rows across said aperture target plate, focusing means for focusing the electrons of said beam in a narrow line on said target parallel to said rows of apertures, signal responsive means and means controlled by said signal



responsive means for directing said beam of electrons to one of the rows of apertures on said target plate representative of a magnitude of the applied signal wave.

2,616,061
ELECTROSTATICALLY-FOCUSED ROTARY RADIAL BEAM TUBE
Paul W. Charton, Montclair, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application September 16, 1950, Serial No. 185,280
15 Claims. (Cl. 315—21)

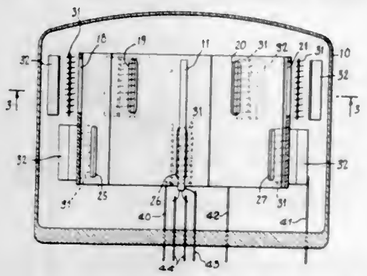


14. Electron tube apparatus, comprising, a central electron-emitting cathode, screen electrode means surrounding the cathode and having a series of channel-defining windows, said screen electrode means arranged to be biassed with respect to the cathode to focus the electrons from the cathode into a sheet-like beam, insulator spacers between the cathode and screen electrode means, conductive means adjacent the cathode ends and negatively biassed to inhibit the irregular charging of said spacers by the electrons from the cathode, and a plurality of other conductive elements between the cathode and screen electrode means and arranged to be excited by a polyphase current to cause the beam to rotate while simultaneously overcoming the tendency of said conductive means to limit the beam current.

2,616,062
ROTARY FOCUSED BEAM ELECTRON TUBE
Paul W. Charton, Montclair, N. J., assignor to National Union Radio Corporation, Orange, N. J., a corporation of Delaware
Application January 25, 1951, Serial No. 207,757
14 Claims. (Cl. 315—21)

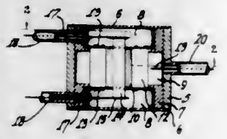
1. In an electron tube of the type described and in combination, a central electron-emitting cathode, channel-defining screen electrode means surrounding the cathode to form the electrons into a radially extending sheet-like beam, said electrode means being in the form of cylindrical arcuate segments one for each phase of a polyphase excitation source, said segments being mounted concentrically around the cathode and with each segment having at least a pair of channel-defining windows in staggered relation con-

sidered around the cathode, and channel output electrode means in radial alignment with each



of said windows, all said windows being substantially parallel to each other and to the major axis of the cross section of the beam.

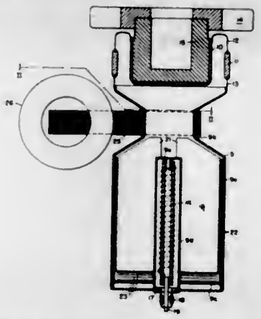
2,616,063
MAGNETRON
William Ernest Willshaw, Kenton, England, assignor to M-O Valve Company, Ltd., London, England, a limited company of Great Britain
Application November 7, 1946, Serial No. 708,279
In Great Britain April 9, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires April 9, 1962
32 Claims. (Cl. 315—40)



10. In an electron discharge device, a cylindrical anode block having a central chamber extending along the longitudinal axis thereof and having radially extending slots opening at their inner ends into said channel chamber, said slots having uniform width for at least a part of their radial length, conducting plates contacting the ends of said anode block at the sides of said slots whereby said slots are closed on all sides, and means coupled to at least one of said slots for transferring energy from said discharge device.

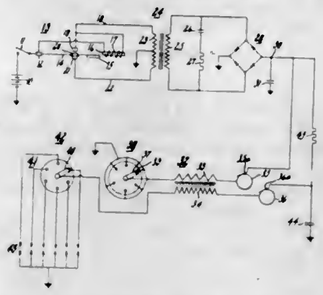
2,616,064
MAGNETICALLY CONTROLLED RECTIFIER-TUBE
John L. Boyer, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 30, 1951, Serial No. 218,368
12 Claims. (Cl. 315—195)

1. A delayed-firing rectifying device comprising an evacuated container having an anode and a cathode, circuit-lead terminals for a main rectifier-circuit using said rectifying device in transferring electrical energy between a main alternating-current circuit and a main direct-current circuit, said container comprising means for providing an intermediate arcing-space through which the arc must pass in playing between the anode and the cathode, electromagnet-means for at times establishing an arc-blocking magnetic field transversely across said intermediate arcing-space, said electromagnet-means having an energizing coil, and a time-controllable steep-wave-front electromagnet-energizing means for at times unidirectionally energizing said coil in an effective amount which is sufficient to block the play of an arc between the anode and the cathode and for at half-cycle intervals reducing the strength of the electromagnet-field from an effective arc-blocking value to substantially zero at a percentage-rate of decrease which is considerably higher than the percentage-rate of decrease of the voltage at the end of each half-cycle in the main alternating-current circuit, said electromagnet-energizing means being so phased, relative to said main rectifier-circuit, that said electromagnet is deenergized at a predetermined time after said anode becomes positive with respect to said cathode, characterized by said time-control-



lable steep-wave-front electromagnet-energizing means including the combination of an alternating-current electromagnet-supplying circuit, a phase-controlling means associated therewith, a substantially square-wave voltage-producing means energized thereby, and a coil-energizing circuit energized from said square-wave voltage-producing means, said coil-energizing circuit comprising a serially connected half-wave rectifier and serially included resistance which is at least about twice as large as the supply-frequency inductance of the coil, said serially connected half-wave rectifier being of a type which becomes conducting substantially as soon as its impressed voltage becomes positive in the conducting polarity.

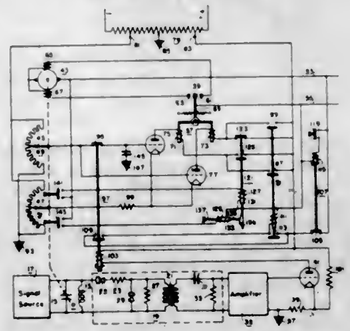
2,616,065
IGNITION SYSTEM
Brooks H. Short, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 20, 1951, Serial No. 216,642
1 Claim. (Cl. 315—221)



In an ignition system, a source of current; an ignition coil having a primary winding and a secondary winding, one side of each of said windings being connected in parallel with said source; a resistor in series with the source and

secondary winding; a main condenser adapted to be intermittently charged and in parallel with said windings; an auxiliary condenser in circuit with said secondary winding; means connected in series with the other side of said primary winding for periodically causing charging and discharging of said main condenser; and a spark plug in series with the other side of said secondary, said plug being capable of periodic sparking and controlled by said means, said auxiliary condenser prolonging the duration and increasing the intensity of the spark.

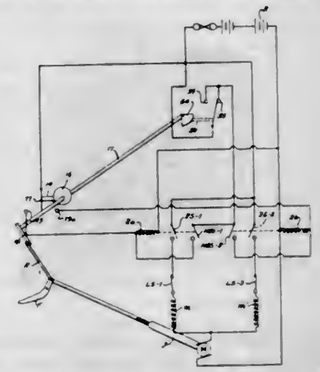
2,616,066
AUTOMATIC TUNING SYSTEM
Clarence B. Coleman, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 3, 1951, Serial No. 213,709
7 Claims. (Cl. 318—28)



1. An automatic tuning system comprising a primary circuit comprising a network adapted for connection to a source of oscillating energy and tunable to resonance at the frequency of said source, means connected to said network for producing a control pulse at the instant when said network is tuned to resonance, a secondary circuit comprising means for tuning said network through resonance, means to control said tuning means, including a memory device actuable responsive to said control pulse for establishing a parameter corresponding to the condition of resonance of said network, means connected in circuit with said memory device for reversing said tuning means and for stopping said tuning means at the instant when the condition of resonance, as established by said memory device, is again reached.

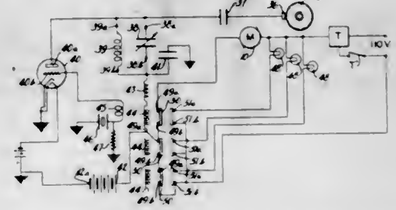
2,616,067
THERMOSTATIC CONTROL DEVICE
Edward John Bush, Sunbury-on-Thames, England
Application August 29, 1946, Serial No. 693,790
In Great Britain January 15, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires January 15, 1965
1 Claim. (Cl. 318—31)

In a device for operating and controlling the movement of an element, electrical means for operating said element, a shaft connected to said element for movement therewith, a control cam of cylindrical form bored longitudinally at an angle to its axis to receive said shaft and having means for connecting it to said shaft to rotate therewith, the degree of eccentricity of the cam increasing progressively in a direction from one to the other end thereof, and a thermally operated member cooperative with the cam for movement thereby and having contacts connected in circuit with said electrical means for controlling the operation of the latter and said element, said cam and cooperative member being relatively displaceable in a direction axially of said cam for



engagement between the cam and said member selectively at different points along the length of the cam to thereby vary the extent of relative movement between said contacts per unit of angular rotation of said cam.

2,616,068
APPARATUS FOR GAUGING THICKNESS
William C. McDonald, Hartford, Conn., assignor to Embart Manufacturing Company, a corporation of Delaware
Application June 2, 1948, Serial No. 30,645
1 Claim. (Cl. 318—452)

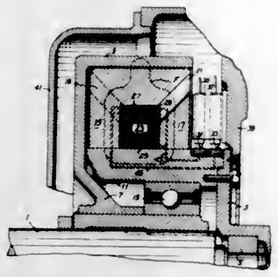


In an apparatus for automatically detecting and rejecting jars, bottles and the like having excessive variations of wall thickness, means for rotating one of said articles, a plurality of inspection heads each having a single detector element spaced from the rotating article, means for maintaining said spacing constant, a high frequency oscillator circuit for each detector element, the current flowing in each of said circuits varying with a change in capacitance of the single electrode associated therewith, means operating to interrupt rotation of said article when the current in a circuit attains a predetermined value and a timer limiting the rotation of the article to a predetermined movement of revolution.

2,616,069
DYNAMOELECTRIC MACHINE
Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware
Application March 19, 1951, Serial No. 216,377
12 Claims. (Cl. 318—492)

1. In a dynamoelectric machine having a field member constituted by a sleeve on which are

carried axially spaced pole rings having axially directed interdigitated pole-forming teeth spaced from the sleeve to provide an annular space, a toroidal coil located in said annular space which



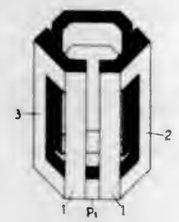
coil is constituted by a relative large low-resistance inductive coil element adjacent the sleeve and a relatively small high-resistance inductance coil element adjacent the teeth, said coil elements being permanently connected in parallel.

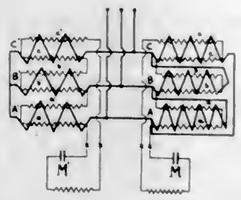
2,616,070

DEVICE FOR THE POLYPHASE TRANSFORMATION OF THE FREQUENCY OF THREE-PHASE CIRCUITS

Ugo Corbino, Rome, Italy

Application December 8, 1949, Serial No. 131,794
In Italy December 16, 1948
10 Claims. (Cl. 321—7)





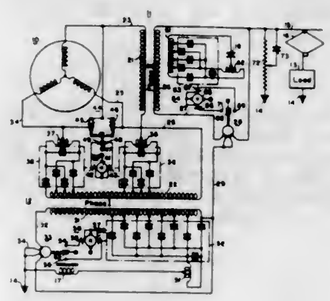
1. A frequency transformer which functions as the result of the variability of reluctance of magnetic circuits in a closed chain of cores and exciting coils alternatively linked, said transformer comprising a group of KC single-phase cores, where K is an integral odd number greater than 1 and C is an integral number, each core including two magnetic legs and magnetic means joining the ends of said legs, the cores being arranged in a closed ring with a leg of each core juxtaposed to a leg of an adjacent core, a secondary winding around each individual leg, and a primary winding around each pair of juxtaposed legs whereby there are half as many primary windings as secondary windings.

2,616,071

STATIC PHASE BALANCER

Lloyd J. Hibbard, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 12, 1950, Serial No. 173,437
15 Claims. (Cl. 321—52)



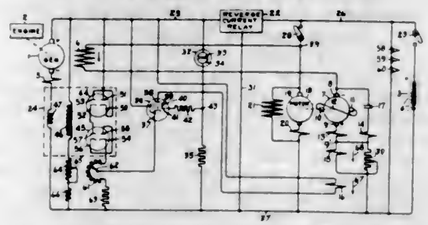
6. A static phase balancer for interconnecting a three-phase power circuit and a single-phase useful-load circuit comprising, in combination, two transformers having primary windings for Scott-connection to the three-phase power circuit and secondary windings for connection to the single-phase load circuit, one terminal of one secondary winding being connected to one terminal of the other secondary winding, the other terminals of the two secondary windings being available for connection directly to the load circuit, an inductive reactive loading-means connected in shunt relation to impose a controllable inductive reactive auxiliary load on one secondary winding, a capacitance reactive loading-means connected in shunt relation to impose a controllable capacitance reactive auxiliary load on the other secondary winding, and an independent current-phase-responsive means associated with each secondary winding for so controlling its associated reactive loading-means as to automatically maintain a predetermined current-phase relation between the total of useful-load and auxiliary current and the voltage of the associated secondary winding.

2,616,072

EXCITATION SYSTEM

Martin A. Edwards, Scotia, and Donald E. Garr and Hugh M. Ogle, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application September 13, 1949, Serial No. 115,426
2 Claims. (Cl. 322—25)



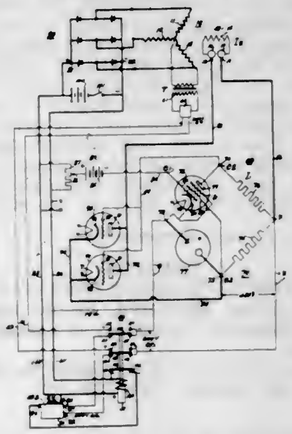
1. An excitation system for a dynamoelectric machine including a field exciting winding, dynamoelectric means arranged to energize said field exciting winding, control means including an electron discharge device having a cathode, an anode and a control electrode to vary the energization provided by said dynamoelectric means, means to maintain said control electrode at a potential substantially constant with respect to the potential of said anode, means responsive to the voltage output of said dynamoelectric machine to vary the potential of said cathode with respect to the potential of said control electrode, means including a magnetron device responsive to the current output of said dynamoelectric machine to vary the potential of said cathode with respect to the potential of said control electrode, said control means being arranged to maintain the polarity of said voltage output fixed relative to the output terminals of said dynamoelectric machine and in response to variation of said potential of said cathode to regulate said voltage output at a substantially constant value for values of said current output below a predetermined value and to decrease said voltage output for values of said current output above said predetermined value to limit said current ouput to a predetermined maximum value, said maximum value being adjustable over a substantial range.

2,616,073

GENERATOR REGULATOR

Brooks H. Short, Raymond A. Wilkins, and George B. Shaw, Anderson, and John W. Dyer, Pendleton, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application February 19, 1949, Serial No. 77,412
1 Claim. (Cl. 322—28)



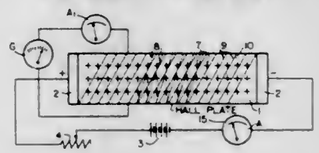
An electric current generating system for use on automotive vehicles and comprising an A. C. generator driven at different speeds by the vehicle propelling engine, a rectifier connected with the generator for supplying direct current to a storage battery and other purposes, a D. C. source of relatively high voltage for supplying generator field excitation current, said generator having a field winding of sufficient number of turns of relatively fine wire whereby required field excitation can be effected with relatively low current, a first voltage divider connected across the terminals of field exciting D. C. source and comprising, in series, a resistance connected with the positive terminal of said D. C. source, a junction and a thermionic tube whose plate is connected with the junction and whose cathode is connected with the negative terminal of said D. C. source, a connection between the negative terminal of the rectifier and said cathode to maintain it at a fixed negative potential, a second voltage divider connected with the terminals of the field exciting D. C. source and comprising, in series, a resistance connected with the positive terminal of said D. C. source, a junction and a voltage control tube which maintains a constant voltage drop between the junction in the second voltage divider and the negative terminal of said D. C. source, a field excitation circuit including the positive terminal of said D. C. source, the generator field coil, a second thermionic tube whose plate is connected to the field coil and whose cathode is connected to the junction in the second voltage divider, the voltage control tube and the negative terminal of said D. C. source, a connection between the grid of the second thermionic tube and the junction in the first voltage divider, a potentiometer connected with the rectifier terminal and a fixed potential D. C. source of relatively low voltage whose positive terminal is connected with the potentiometer and whose negative terminal is connected with the grid of the first mentioned thermionic tubes whereby the conductivity of the first thermionic tube is responsive to the relation between rectifier D. C. terminal voltage and the voltage of the second mentioned D. C. source, whereby the potential at the junction in the first voltage divider accordingly varies to vary the grid bias on the second thermionic tube, and whereby the conductivity of the latter tube varies to change field current to correct for deviations of rectifier output voltage from a certain value.

2,616,074

APPARATUS FOR UTILIZING THE HALL EFFECT

Harold J. McCreary, Lombard, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application April 10, 1950, Serial No. 155,099
8 Claims. (Cl. 323—94)



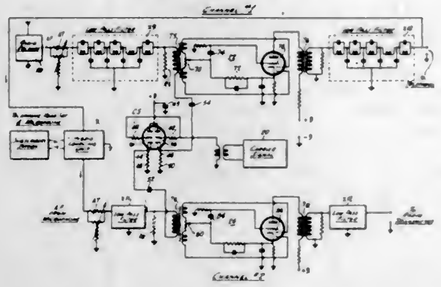
1. In a "Hall effect" type apparatus of the class wherein an electrical current flows in a given direction lengthwise thru a metal plate having a high Hall coefficient and having a magnetic field impressed upon the plate at right angles thereto angularly rotating the lines of equipotential which are normal to the direction of the current flow an amount corresponding to the intensity of the flow of current and the flux density of the magnetic field, the combination with said plate of fine line elements of high electrical conductivity positioned along said rotated lines of equipotential corresponding to a given current flow and flux density so that a small variation in either current flow or flux density will cause said angularly rotated lines of equipotential to change their angular rotation to a position corresponding to the varied conditions, thereby crossing said highly conductive elements, said elements then providing low resistance paths between the lines of equipotential corresponding to said varied conditions causing a great change in resistance across said plate.

2,616,075

SIGNAL VOLTAGE FREQUENCY CONVERTER

Thomas E. Jacobi, Westmont, N. J., and William L. Gensel, Philadelphia, Pa., assignors to Radio Corporation of America, a corporation of Delaware

Application June 16, 1945, Serial No. 599,830
3 Claims. (Cl. 332—48)



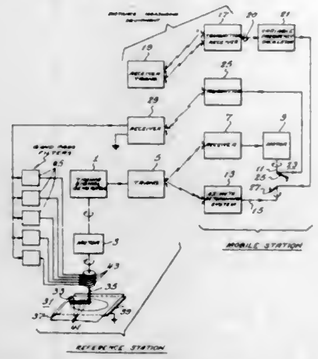
1. In a modulator, an electron discharge rectifier system having input electrodes and having output electrodes coupled to an output circuit, a transformer having a secondary winding coupled to the input electrodes of said rectifier system, a cathode follower stage having an input and having a cathode impedance, means coupling said cathode impedance in series with the primary winding of said transformer, means for impressing modulating potentials across said series coupling, means for impressing oscillations of carrier wave frequency on the input of said cathode follower stage.

2,616,076

AIR TRAFFIC CONTROL SYSTEM

Joseph Lyman and George B. Litchford, Huntington, N. Y., assignors to The Sperry Corporation, a corporation of Delaware

Application April 20, 1949, Serial No. 88,522
10 Claims. (Cl. 343—5)



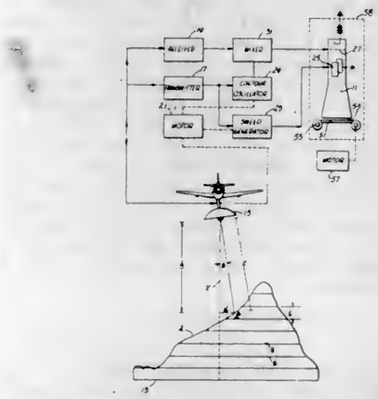
1. A system for transmitting from a mobile station to a reference station information as to the distance and direction of said mobile station from said reference station, including means at said reference station for generating a periodic timing signal and means for transmitting said timing signal to said mobile station, means at said mobile station for producing a distance signal varying according to the distance of said mobile station from said reference station, and means periodically transmitting said distance signal to said reference station during intervals which are delayed with respect to said timing signal by an amount corresponding to the direction of said mobile station from said reference station.

2,616,077

RADIO ECHO SYSTEM FOR MAPPING CONTOURS

William T. Holser, Los Angeles, Calif.

Application May 20, 1947, Serial No. 749,371
11 Claims. (Cl. 343—5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



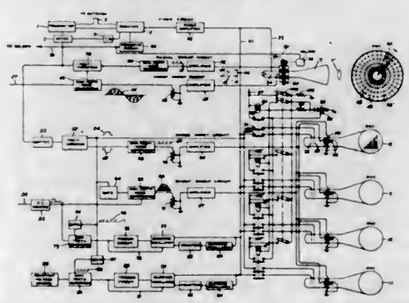
1. Apparatus for making a topographic map of a surface comprising means for generating wave energy and for scanning the surface with a directional beam of said energy, means for receiving a portion of said wave energy after reflection thereof by substantially all parts of the scanned surface, means responsive to said received energy for deriving data therefrom related to the respective ranges of selected parts only of said reflecting surface, said parts being uniformly spaced from said apparatus according to predetermined discreet contour intervals, and means for translating the derived range data into a series of substantially continuous delineations, each said delineation corresponding to a predetermined contour level of the surface.

2,616,078

RADIO DETECTION AND RANGING SYSTEM

George W. Fyler, Stratford, Conn., assignor to General Electric Company, a corporation of New York

Application August 2, 1945, Serial No. 608,574
20 Claims. (Cl. 343—11)



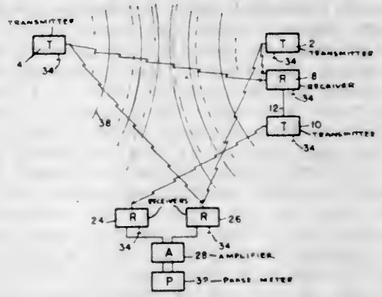
1. In a radio echo system in which impulses are transmitted and echo impulses are received after reflection from an object in space, a plurality of viewing screens, means to indicate on one of said screens the azimuth angle of said object, means to indicate the elevation of and distance to said object on the remaining ones of said screens sequentially in accordance with the azimuth angle of said object, and means for disabling said last means and for indicating simultaneously on said remaining screens the elevation of and distance to said object.

2,616,079

NAVIGATION LANE IDENTIFICATION

Donald N. Timbie, Bethesda, Md., assignor to Hastings Instrument Company, Inc., Hampton, Va., a corporation of Virginia

Application June 8, 1948, Serial No. 31,642
7 Claims. (Cl. 343—105)



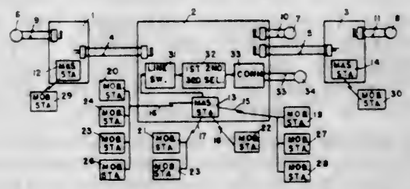
1. A navigational method of lane identification comprising the steps of transmitting from two spaced transmitters in a common first channel, detecting the beat frequency between said transmissions at two spaced points, relaying the beat frequency so detected at one of said spaced points to the other of said points, measuring the difference in phase between said beat frequencies at said other point, changing the frequency of transmission of said transmitters to a common second channel and measuring the resultant change in phase difference effected at said other point.

2,616,080

TIME DIVISION MULTIPLEX RADIOPHONE SYSTEM

John H. Homrighous, Oak Park, Ill.

Application March 5, 1948, Serial No. 13,243
44 Claims. (Cl. 343—204)



3. In a radio communication system, a plurality of radio stations, means associated with each of the said stations to receive a plurality of recurring station control pulses, each of the said recurring station control pulses for a different one of said stations and having a characteristic, individual to such station, a plurality of electron tubes associated with a first one of said stations, means at said first station including a multi-position switch to utilize one, two or three of said tubes according to the position of the switch to select one of said recurring station control pulses for a second one of said stations. means associated with said first station including a first member responsive to said one recurring station control pulse to produce a first train of timing pulses, and means at said first station including a first amplifier under control of said first train of timing pulses to transmit signals representative of a message for said second station.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

606,035. **SYNTHETIC RUBBER OF LOW WATER ABSORPTION.** Walter T. L. Ten Broeck, Jr., Akron, Ohio. Filed July 19, 1945. Published Oct. 28, 1952. Class 260—83.3. No drawing. 6 pages of specification.

A latex of neoprene or of a synthetic rubbery copolymer of butadiene-1,3 with styrene or with acrylonitrile, may be coagulated to form a product having low water absorption, by first diluting the latex with water to a 1–5 percent solids content, and then coagulating with a water soluble salt of aluminum, barium, calcium or magnesium. Sodium salts must be excluded from the coagulation mixture.

Thus, when a commercial butadiene-1,3-styrene copolymer was coagulated from an 18 percent latex with NaCl, samples were found to absorb 31 and 41 mgs./sq. in. in a standard water absorption test. The same latex, when first diluted with water to a 4 percent solids content, and then coagulated with $Al_2(SO_4)_3.10H_2O$, yielded rubber samples having water absorptions of 3.1 and 6.7.

769,995. **RADIOACTIVE TOXIC WARFARE WEAPON.** Jack De Ment, Portland, Oreg., assignor to the United States of America as represented by the U. S. Atomic Energy Commission. Filed Aug. 21, 1947. Published Oct. 28, 1952. Class 204—154. No drawing. 24 pages of specification.

The application discloses a method of contaminating water with radioactive toxic material, in furtherance of military objectives. The water is contaminated by spreading radioactive toxic material in a thin film over the surface. The thin film is formed by including with the radioactive toxic material a liquid organic spreading agent.

According to one method (A) the spreading agent includes the radioactive material before application to the surface of the water. According to an alternative method (B) the radioactive toxicity is imparted to the spreading agent after the spreading agent has been applied to the surface of the water.

The spreading agents include vegetable oils such as castor oil; higher monohydric alcohols such as dodecyl alcohol, oleic alcohol and terpineol; esters such as methyl salicylate, ethyl salicylate, methyl myristate, ethyl myristate, dimethyl phthalate, and dibutyl phthalate. These spreading agents may be dissolved in a suitable solvent such as water white mineral oil.

In carrying out method A the spreading agent may be rendered radioactive toxic by either (1) pile irradiation, or (2) by incorporating a radioactively toxic additive.

In case (1) wherein the spreading agent may be a solution of oleic alcohol in liquid paraffin oil, upon irradiation in a pile the sulfur in the oil becomes radioactive forming sulfur-35 and phosphorus-32. Preferably there is added to the mixture of oleic alcohol and mineral oil a compound which yields radioactive isotopes when irradiated in a pile. Compounds recommended for addition to the spreading agent before irradiation in a pile include ethyl mercaptan, butyl mercaptan, antimonous ethoxide, triethyl antimony, trimethyl antimony, cacodyl bromide, cacodyl sulfide, cacodyl oxide, bismuth triethyl, bismuth trimethyl, dibutyl cadmium, diethyl cadmium, diisoamyl cadmium, triethyl gallium, and phenyl mercuric halides. In accordance with procedure (2) wherein the spreading agent is combined with a substance which has previously been made radioactive, the radioactive substances include radioactive soaps, such as strontium-89 oleate and radioactive warfare gases such as 2,2'-dichlorodiethyl sulfide (mustard gas) in which the sulfur atom is radioactive sulfur-35.

In carrying out method (B) radioactivity is imparted to the film of spreading agent either by the explosion of an atomic bomb or by the action of a radioactive smoke, aerosol, incendiary composition, warfare gas or ammunition thereupon.

72,754. **RADIOACTIVE PRODUCT AND METHOD OF PRODUCING THE SAME.** Louis B. Werner, Berkeley, Calif. Filed Jan. 25, 1949. Published Oct. 28, 1952. Class 23—14.5. No drawing. 6 pages of specification.

This application discloses a process for separating americium from contaminants in an aqueous solution utilizing pentavalent plutonium as a carrier. The separated material comprises a radioactive product.

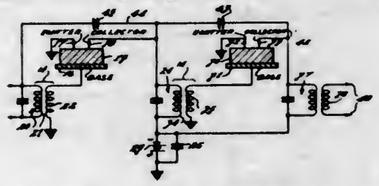
The pentavalent plutonium carrier is produced by adding potassium carbonate solution to a dilute acid solution of quadrivalent plutonium, oxidizing the plutonium to the hexavalent state and finally reducing the plutonium to the pentavalent state by adding excess solid Na_2SO_3 to the solution. After about an hour a tan precipitate of pentavalent plutonium begins to form. After forty hours the pentavalent plutonium precipitate is centrifuged from the solution and is washed with carbonate solution.

In order to precipitate (carry) pentavalent americium from a solution, the prepared pentavalent precipitate is added and the mixture is stirred for a few minutes. Thenceforth, the pentavalent plutonium carrier precipitate and carried americium are centrifuged from the solution. Such carrier together with the carried material form the product.

78,268. **NEUTRALIZED SEMICONDUCTOR AMPLIFIER.** Loy E. Barton, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware. Filed Feb. 25, 1949. Published Oct. 28, 1952. Class 179—171. 1 sheet of drawings. 18 pages of specification.

This application relates to transistor amplifier circuits of the grounded emitter type. An input signal such as a modulated carrier wave is impressed on resonant input circuit **20** inductively coupled to inductor **22** which is connected between base **16** and ground. The amplified output signal is derived from resonant output circuit **24**

connected between collector **18** and battery **25**. The emitter **17** may be grounded.



It has been found that a grounded emitter transistor amplifier may exhibit negative resistance looking into the base under certain conditions and in that case, the amplifier tends to oscillate. This is prevented by the provision of a degenerative or negative feedback network **44** coupled between collector **18** and base **16** and including capacitor **45**. However, the negative feedback path may also include a resistor instead of a reactive impedance element depending upon the degree of coupling of the input transformer **21**, **22**.

79,113. **COMPOSITION FOR ATOMIC FLASH PROTECTION.** Jack De Ment, Portland, Oreg. Filed Mar. 1, 1949. Published Oct. 28, 1952. Class 167—90. No drawing. 19 pages of specification.

This application is concerned with a composition applicable upon the outer surface of the body prior to an atomic explosion in order to lessen some of the injurious flash effects of such an explosion.

An atomic bomb explosion is signaled by a flash of light which is composed of every type of radiation of which such an explosion is capable of producing. These radiations are of penetrating and of the non-penetrating type. This application deals with the non-penetrating type of radiation. Injuries which may result from such radiations may be due primarily to the effect of purely thermal radiations, to the effect of abiotic ultraviolet light and those caused positively by particles being forcibly driven against the body by the force of the explosion.

The composition of this application has wide application. It is intended for application upon the outer surface, skin, hair etc. of humans or animals or even plants expected to be subjected to atomic explosion. Though it is intended to be applied directly upon the skin, it may be applied upon clothing if such is too light in texture to offer protection in itself to that part of the body with which it is in contact.

The composition may be made up and applied in the form of a powder, a liquid or lotion or as a cream or ointment. In such forms it may be applied either manually or mechanically, depending upon the extent of the operation, by dusting, spraying, dipping or swabbing or brushing.

In any event it is stressed that the composition does not offer complete protection and should be used only when other more positive means are not available.

Substances used to form this composition display, and are used because of their different functional properties. Some are used because they act to reflect thermal energy; others act to absorb ultraviolet energy, and others to reflect it. Various lotion oils, solvents and creams may be used to produce either a liquid or paste-like composition. Also adjuncts may be added as desired such as local and topical anesthetics, antibiotics, bacteriostatic and antiseptic agents (such as iodine, merthiolate, mercurochrome, creosote benzoate or oleate and phenol).

The preferred thermal energy reflecting substance is aluminum powder although mica and magnesium oxide may be similarly used.

Aluminum powder and magnesium oxide are useful also as abiotic ultraviolet energy reflecting substances other examples of which include barium sulfate, calcium carbonate, silicon, cadmium and cobalt. The substances of this latter group may be replaced in whole or in part by substances which act to absorb ultraviolet energy, and which may be either fluorescent or non-fluorescent. Substances which are fluorescent absorbers are: fatty acid derivatives of quinine such as the stearate, the oleate and the ricinoleate; also quinine salts such as the sulfate, the hydrochloride and the bisulfate; esculin; sodium naphthol-6,8-disulfonate; pyrene - 3,5,8,10 - tetrasulfonic acid and ammonium tetrabromoresorufin.

Substances which are non-fluorescent absorbers of ultraviolet energy and which are useful in this composition are: ferric oxide, zinc oxide, titanium dioxide, the fatty acid derivatives of hydroxyquinoline and salts of glucose-phenylosazone-p,p'-dicarboxylic acid.

Certain luminescent solid inorganic phosphors may be used in the form of impalpable powder because of their high insolubility and inertness. This group includes rare earths activated calcium tungstate; manganese activated zinc orthosilicate; magnesium tungstate phosphor and beryllium orthosilicate or tungstate phosphors or interphosphors.

The disclosed substances may be utilized as illustrated by the following examples: "Parts" of the ingredients is parts by weight.

Mix A or B in powder form before using:

		Parts
(A)	Aluminum	80
	Ferric oxide	20
	or	
(B)	Aluminum	50
	Calcium tungstate phosphor	50

(C) Aqueous lotion	Parts
Aluminum	10
Magnesium oxide	5
Methyl salicylate	8
Glycerine	7
Water	70

(D) Non-aqueous lotion	Parts
Aluminum	5–8
Phosphor	5–8
Light oil	70–90

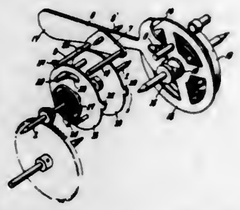
(E) Aqueous lotion	Parts
Agar agar	3
Glycerine	38
Aluminum	8
Rose water	60
Alcohol	20

(F) Non-aqueous lotion	Parts
Olive oil	30
Peanut oil	60
Aluminum	10
Inorganic oxide	3
Benzocaine or metycaine	2

(Instead of benzocaine or metycaine, sulfadiazine, sulfanilamide, sulfapyridine or penicillin may be used in effective amounts.)

(G) Cream or ointment	Parts
Aluminum	4
Lanolin	2
Petrolatum	8
Glycerine	4

84,205. **CONSTANT IMPULSE ESCAPEMENT.** Francis B. Woestemeyer, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Mar. 29, 1949. Published Oct. 28, 1952. Class 58—121. 1 sheet of drawings. 11 pages of specification.



This disclosure pertains to a constant impulse escapement which comprises an escape wheel assembly consisting of a primary wheel **20** and a secondary wheel **21**. An escape lever **8** is operatively associated with an oscillating balance wheel **13** and includes a pair of pallet pins **9** and **10**. The escape wheel assembly further includes a shaft **2**, adapted to be driven by a source of variable torque, to which primary wheel **20** is rigidly attached. Secondary wheel **21** is rotatably mounted on shaft **2** and both wheels have locking teeth similarly disposed on their respective peripheries. The teeth **22—23** on primary wheel **20** have a relatively flat peripheral edge so that they provide substantially no impulse to pallet pins **9** and **10**, whereas teeth **24—26** on secondary wheel **21** have a sloping peripheral edge adapted to provide an impulse to the pallet pins. The escape lever **8** is linked to balance wheel **13** to engage alternately and release the aforementioned teeth in accordance with the oscillations of the balance wheel. A spiral spring **27** couples secondary wheel **21** to primary wheel **20** and a stop pin **28** on wheel **20** and cooperating slot **29** in wheel **21** serve to limit the maximum relative angular displacement of the wheels. Spring **27** is pre-wound to maintain the teeth on both wheels **20** and **21** in alignment normally to cause the secondary wheel to follow the rotation of the primary wheel immediately after the release of the primary wheel at a rate dependent on prewinding and not on the magnitude of the variable torque. Thus, secondary wheel **21** imparts a substantially constant impulse to pallet pins **9** and **10** and to balance wheel **13**.

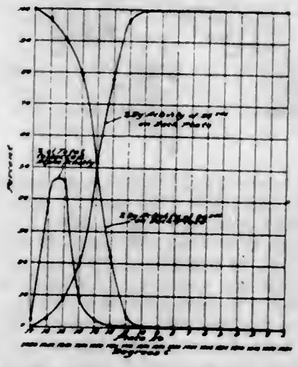
99,776. **METHOD OF SEPARATING ELEMENT 95 FROM ELEMENT 96.** Oliver C. Simpson, Chicago, Ill., and Norman D. Erway, Oregon, Wis. Filed June 17, 1949. Published Oct. 28, 1952. Class 202—69. 1 sheet of drawings. 6 pages of specification.

The disclosure relates to a thermal fractionation method of separating curium-americium mixtures, particularly those resulting from production of curium by the nuclear reaction

$$Am^{241}(n, \gamma)Am^{242}$$

$$Am^{242} \xrightarrow[18\ \text{hrs.}]{-\beta} Cm^{242}$$

This thermal fractionation is effected by any of the usual types of vaporization processes used for separating metals. Thus, the mass may be separated by heating at a temperature at which the more volatile americium is vaporized, leaving the curium, or, in a preferred method, the mixture may be heated to a constant temperature at which both are vaporized and then fractionally condensing the vapors.

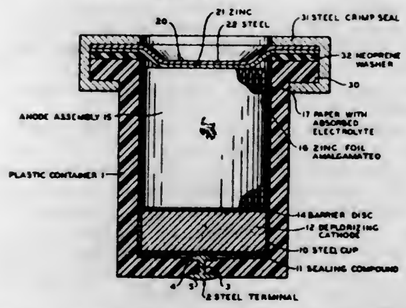


In a specific example, a mixture of the metals was placed in the bottom of a tantalum crucible in which a number of thin tantalum discs were disposed, one above another, above the bottom or oven section of the crucible. The plates were separated by tantalum spacers and each was provided with a small orifice off center for a vapor passage, with successive orifices on opposite sides of the crucible. The crucible was maintained at 5×10^{-5} mm. mercury, and heated by induction so that the bottom of the crucible was 2090° C., and top 1080° C., with a linear gradient between these points. The discs served both as collector plates and baffles. The vapor condensed on the bottom of each plate. After 4½ hours heating, the apparatus was dismantled and the plates were counted for total alpha activity and representative plates were pulse-analyzed for percentage of curium isotope on each. The figure shows the results obtained; plate No. 1 being the uppermost plate in the crucible and No. 17 the nearest to the bottom.

The process is applicable to the metals or their oxides, but the oxides are less volatile. Volatilization of the metals may be at from about 3000° K. at atmospheric pressure to about 1000° K. at the best obtainable vacuum. Highly desirable conditions are vaporization at 2400°–2800° K. and condensation in the range 2000°–2400° K.

111,751. **RM CELL STRUCTURE.** Grenville B. Ellis, Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army. Filed Aug. 22, 1949. Published Oct. 28, 1952. Class 136—133. 1 sheet of drawings. 6 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)

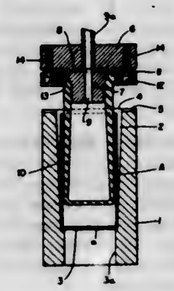


This disclosure relates to primary alkaline dry cells and to improved means for hermetically sealing the same. This type of dry cell comprises essentially, as internal elements, an anode of amalgamated zinc or its equivalent, a cathode consisting of an electronically conductive mass of oxygen yielding compounds such as mercuric oxide, silver oxide or the like, a barrier between said anode and cathode and an immobilized body of an aqueous alkaline metal hydroxide electrolyte initially containing a substantial quantity of alkaline metal zincate in solution. The improvements according to the disclosure consist in a primary alkaline dry cell having a container of plastic dielectric material with a cathodic terminal consisting of a shank of inert metal having enlarged internal and external head-portions molded into the bottom thereof and a cylindrical steel cup, within the plastic container, in intimate electrical contact with the cathodic terminal and the depolarizing cathode which it encloses. A layer of metal-to-plastic sealing compound which is impervious to the alkaline electrolyte and capable of preventing creepage of the same is positioned between the steel cup and the bottom of the plastic container in such a manner as to hermetically seal off the area around the internal head-portion of the cathodic terminal against any contact with the electrolyte, without impairing the intimate electrical contact between the cup and the terminal. The cathode is separated, in a known manner by an ionically permeable barrier disc, from an anode assembly conventionally comprising a roll of amalgamated zinc foil interwound with a strip of porous electrolyte-retaining sheet spacing material; the upper edge of the zinc foil projects at the top and the lower edge of the porous sheet projects at the bottom of the rolled assembly. A two-layer top disc, consisting of an inner layer of zinc and an outer layer of steel, has a depressed central portion which presses against, and is in intimate electrical contact with the projecting edge of the zinc foil of the anode. The top of the plastic container terminates in an outwardly extending annular flange. An internally channeled annular clamping or crimping member of steel and a washer of neoprene or other suitable gasket material, interposed between the two-layer top disc and the outwardly extending flange of the plastic container, are used to hermetically seal the entire assembly, thereby keeping the internal elements of the cell under pressure contact. The anode may consist of a pellet of porous zinc, and the top disc may consist of steel which is silver plated on its inner surface. Also, the cathodic terminal may have an additional intermediate flange around the middle of the shank and the external head-portions may be corrugated.

The plastic container completely isolates the anode and cathode and eliminates the use of other more complicated insulating means, particularly the use of an internally grooved neoprene grommet in the top assembly. The cell is effectively protected against any leakage and creepage of electrolyte through the metal-to-plastic seal between the steep cup holding the cathode and the bottom of the plastic container in combination with the particular structure of the cathodic terminal molded into the bottom of the plastic container.

131,759. **APPARATUS FOR AND METHOD OF EXTRUDING METAL CUPS.** Arthur E. Watts, Ottawa, Ontario, Canada. Filed Dec. 8, 1949. Published Oct. 28, 1952. Class 113—44. 3 sheets of drawings. 18 pages of specification.

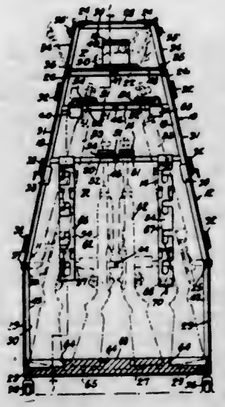
The application relates to the formation of a thin walled conically shaped cup from a cylindrical cup blank. The blank is inserted into a female die of the desired configuration and thereafter a rubber, fluid tight male die sack is inserted in the cup. The male die sack has an outer cylindrical configuration and an inner tapered wall to provide a progressively increasing



wall thickness from its outer closed end. Upon introduction of fluid pressure into the male die sack it forces the cup blank radially outward into the female die progressively from the outer end in view of the varying wall section. This progressive forming is to prevent the formation of air locks in the matrix.

132,582. **ARMS CHEST.** George E. Stewart, Baltimore, Md., Samuel G. Green, Gray, Ga., and William R. Bluehdorn, Hartford, Conn. Filed Dec. 12, 1949. Published Oct. 28, 1952. Class 312—278. 2 sheets of drawings. 13 pages of specification.

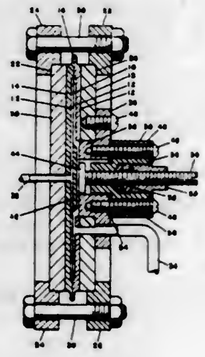
(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)



A chest for safeguarding and storing firearms in a systematic order comprising a frame **11** including a pair of tubular, parallel end members **15** interconnected by a plurality of horizontal, tubular reenforcing members **19**, **20**, **21**, **22**, **23**, **24**, **25** and **26**, a metallic housing **12** including hinged doors **31** and **34** attached to and completely surrounding frame **11**, a bore member **27** mounted in reenforcing relationship to the bottom of frame **11** comprising a plurality of butt receiving recesses **64**, a first horizontal plate **51** mounted in reenforcing relationship to frame **11** intermediate base member **27** and the top member **28** of frame **11**, a second horizontal plate **51** mounted in reenforcing relationship to frame **11** intermediate the

first plate **51** and the top member **28** of frame **11**, plates **51** including a plurality of parallel rows of outwardly opening, elongated barrel receiving slot portions **52**, locking plates **54** slidably mounted over each of the last-mentioned rows having outwardly opening slot portions **57** terminating in enlarged slot portions **58** to form detents **59**, a third horizontal plate **48** mounted in reenforcing relationship to frame **11** intermediate the second plate **51** and top member **28**, a small arms rack **13** fastened to the third plate **48**, and a locking device for preventing access to the firearms stored in the arms chest.

133,446. **PRESSURE RESPONSIVE RELAY.** Eugene T. Booth, Jr., New York, N. Y., and Sylvan J. Cromer, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission. Filed Dec. 16, 1949. Published Oct. 28, 1952. Class 200—83. 1 sheet of drawings. 10 pages of specification.



The disclosure in this application relates to an apparatus which produces an electrical signal in response to changes in pressure differential.

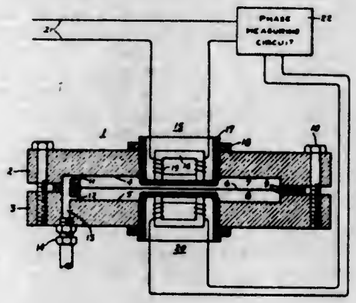
The apparatus comprises a pair of opposed slightly cupped disks **12** and **14** between which there is sealed a thin flexible diaphragm **10** dividing the space between the disks into two chambers **13** and **15** hermetically sealed from each other. The disks **12** and **14** are secured to supporting plates **18** and **20** which have a pair of bolted peripheral rings **22** and **24** bearing against them to reinforce the joint between the diaphragm and disks **12** and **14**.

A pair of electrical contacts **42** and **44**, insulated from each other, are provided to close an electrical circuit in response to the changes in the pressure differences across the diaphragm **10**. The contact **42** is mounted on the diaphragm, and the contact **44** is adjustably mounted in a block **46** screwed to a flanged ring **36** extending into an axial opening in plate **18**.

Conduits **32** and **34** connect the chambers **15** and **13**, respectively, with the gases whose pressure difference is to be measured.

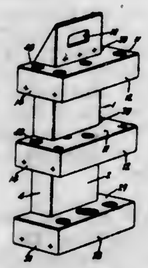
This apparatus can be used to measure the pressure of a corrosive gas by admitting the corrosive gas to chamber **15** and balancing its pressure by means of an inert gas admitted to chamber **13**. The electrical contacts **42** and **44** are then used to control an electrical circuit regulating the pressure of the inert gas. When the pressures acting on the diaphragm are balanced, the pressure of the inert gas is measured to determine the pressure of the corrosive gas.

136,212. **PRESSURE SENSITIVE APPARATUS.** William H. Janssen, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Dec. 31, 1949. Published Oct. 28, 1952. Class 73—398. 1 sheet of drawings. 8 pages of specification.



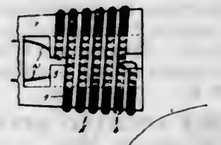
The disclosure relates to apparatus for measuring gas pressure. A fluid tight cavity having a vibratory diaphragm **6** dividing the cavity into two gas chambers **7** and **8** is employed to determine the pressure of a gas admitted into chambers **7** and **8** through access openings **11** and **12** communicating with input gas conduit **14**. A driving electromagnet **15** is arranged and energized to vibrate diaphragm **6** at a frequency above its natural resonant frequency so that diaphragm **6** acts as an effective mass in a mechanical oscillatory circuit comprising the diaphragm **6** and the gas columns in gas chambers **7** and **8**. These gas columns act as springs whose spring constants are determined by the gas pressure. A receiving electromagnet **20** provides an electrical output signal responsive to the vibrations of diaphragm **6**. The difference in phase between the input electrical energy supplied to electromagnet **15** and the output electrical energy from electromagnet **20** is indicated by phase measuring circuit **22** and constitutes a measure of gas pressure. This gas pressure measurement is independent of the type of gas, its temperature and its density, and is not dependent upon the spring constant of diaphragm **6**.

151,324. **ATTACHMENT CARRIER FOR VACUUM CLEANER ACCESSORIES.** Robert James Shackelford, Chesterland, and Robert B. McCarthy, Eastlake, Ohio, assignors to General Electric Company, a corporation of New York. Filed Mar. 23, 1950. Published Oct. 28, 1952. Class 211—72. 2 sheets of drawings. 9 pages of specification.



This carrier for vacuum cleaner attachments, including the hose and wands, is made of corrugated cardboard in the form of a central hollow vertical post **2**, with a handle **10**, and has three similar box-like shelves, **12**, **12** and **28** attached to and surrounding the front and two sides of the post. The hose may be coiled for storage inside of the post and the wands and other attachments are supported in holes **39** and **40** in the shelves. The bottom shelf **28** serves as a base for the carrier in addition to acting as a support for attachments. All attachments are readily visible and removable when the carrier is placed with its back against a wall.

171,876. **RADIANT HEATER ELEMENT.** Robert J. Sertl, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York. Filed July 3, 1950. Published Oct. 28, 1952. Class 219—34.1. 1 sheet of drawings. 5 pages of specification.



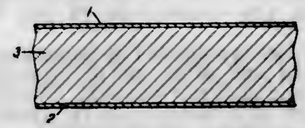
The application discloses a radiant heater heating element comprising a ceramic core **7** on which is wound a helically wound heater wire **6**, the turns **8** of the heater wire located at the bottom side of the core being spaced apart farther than are the other turns **9** whereby a lesser amount of heat is directed downwardly than in other directions.

180,571. **COMPRESSED GAS CYLINDER AND METHOD OF MAKING.** Llewellyn W. Evans, Rivera, Calif., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California. Filed Aug. 21, 1950. Published Oct. 28, 1952. Class 220—3. 1 sheet of drawings. 6 pages of specification.



A pressure vessel, such as a compressed gas tank, is formed of a pair of substantially identical half sections, each section consisting of a semicylinder with integrally formed quarter sphere end walls. The sections are formed with edge flanges, which are butt welded together. The flanges are fused to provide the weld material for the joint. When completed, the weldment resides substantially in alignment with the butted walls of the two half sections, thereby minimizing the separating stress to which the joint is subjected by the pressure in the vessel.

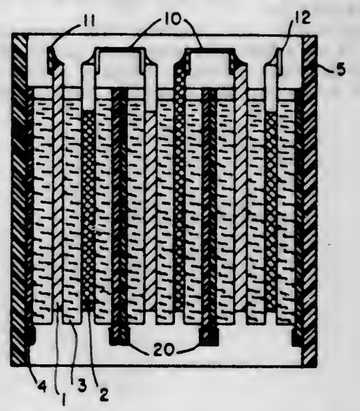
184,672. **WATER VAPOR NONPERVIOUS THERMAL INSULATION PANEL CONSTRUCTION.** George E. Kloote, Joseph A. Potchen, and Jacob H. Tigelaar, Grand Rapids, Mich.. Filed Sept. 13, 1950. Published Oct. 28, 1952. Class 154—44. 1 sheet of drawings. 10 pages of specification.



The disclosure relates to a thermal insulating panel particularly designed to be used in moist environments where a substantial differential in temperature is experienced across the thickness of the panel. The particular object of the panel is to provide a unit within which water vapor may not migrate either through the thickness of the panel or from its edges into the interior to accumulate moisture within the panel to cause delamination by reason of hydrostatic pressure. The panel may be constructed in several forms of which the one illustrated in Figure 1 discloses a core **3** of lightweight cellular material into which water vapor will not be absorbed and through which water vapor will not pass; faced on each side by a relatively hard, wear resistant, surfacing material indicated as sheet **1** and sheet **2**. In the form disclosed in Figure 1, the core **3** is made of medium hard, expanded, synthetic rubber but could be made of expanded polystyrene or expanded glass. The facing sheets **1** and **2** are of aluminum, stainless steel or other suitable, hard, abrasion resistant material. The core **3** and facing sheets **1** and **2** are bonded together by a water insoluble, water non-wettable, water non-permeable, non-hygroscopic adhesive material such as phenol vinyl butyral of the phenol resin group.

The disclosure contemplates the construction of the panel with a similar core but with one or more facing sheets consisting of laminated wood or laminated wood and metal as a structural surfacing medium.

215,565. **PREVENTION OF SHORT CIRCUITING OF LEAKAGE CURRENTS.** John H. Baldwin, Joplin, Mo. Filed Mar. 14, 1951. Published Oct. 28, 1952. Class 136—163. 1 sheet of drawings. 5 pages of specification.

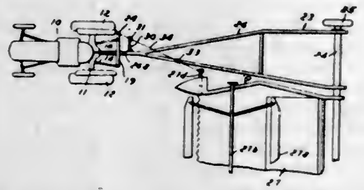


The disclosure relates to a primary battery of the so-called "dunk" type. Each cell of the battery comprises a negative sponge lead electrode

1 and a positive lead peroxide electrode 2. Spacer 3 of bibulous material separates the two electrodes from each other and also separates the electrodes from a tubular open-ended casing member or cell container 4. A plurality of cells each with a tubular casing 4 are placed side by side in a further open ended tubular casing 5. End terminals 11 and 12 for the battery are provided and also connections 10 join individual cells.

The battery is activated by immersion into sulphuric acid and after one to three minutes is removed and shaken vigorously. To prevent accumulation of electrolyte at 20 where adjacent hulls or containers of cells contact each other, a water repellent material such as petroleum jelly, paraffin, wax, silicone resins, etc., is provided. A petroleum jelly may be dissolved in a hydro-carbon solvent, such as benzine, comprising about 2% jelly. This may be applied at 20. The electrolyte will drain from the surface 20 and therefore prevent shortcircuiting of the adjacent cells.

227,198. **HEADER LIFT FOR IMPLEMENTS.** Guy G. Spokely, Clarkston, Mich., assignor to Dearborn Motors Corporation, Birmingham, England, a corporation of Delaware. Filed May 19, 1951. Published Oct. 28, 1952. Class 56—23. 1 sheet of drawings. 6 pages of specification.

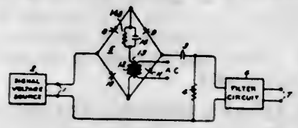


This application relates to mechanism for controlling the vertical height of an implement trailed behind a tractor of the type having power-lifted hitch links.

As illustrated in Figure 1, the vertical height of the header 27 of a combine trailed behind a tractor 10 having power-lifted hitch links 14 may be controlled by a cable connection 34 which extends between the header 27 and the tractor drawbar 19 and is trained over suitable intermediate pulleys 31 and 33. Thus, raising the tractor hitch links 14 automatically effects lifting of the combine header 27.

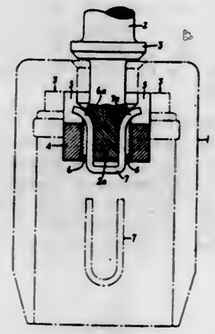
Additionally, by locating the connection of cable 34 to a laterally displaced point 28 on the tractor drawbar, automatic lifting of the combine header when turning a corner may be obtained.

242,266. **RATE OF CHANGE RESPONSIVE NETWORK.** Arthur P. Adamson, Ballston Spa, N. Y., assignor to General Electric Company, a corporation of New York. Filed Aug. 17, 1951. Published Oct. 28, 1952. Class 178—44. 1 sheet of drawings. 17 pages of specification.



The application discloses a rate of change network comprising a capacitor 3 and resistor 4 which are periodically connected through a switching device 5 with a source of voltage 2 subject to variation in magnitude. The periodic switch 5 operates in synchronism with the voltage of the source 2 when that voltage is an alternating voltage. The output voltage proportional to rate of change of input voltage appears across the resistor 4.

255,887. **NUT LOCKING DEVICE.** William N. Matson, Fitchburg, Mass., assignor to General Electric Co., a corporation of New York. Filed Nov. 13, 1951. Published Oct. 28, 1952. Class 151—8. 1 sheet of drawings. 5 pages of specification.

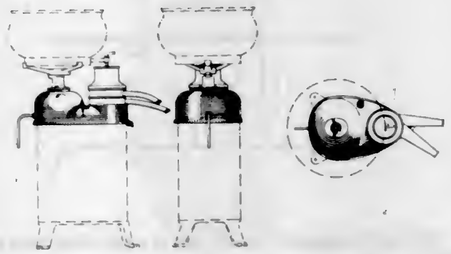


This application relates to a nut lock, particularly adapted for threaded members accessible only from the end thereof. The bolt has two longitudinal grooves traversing the thread, the inner ends of the grooves curving radially outwardly. The nut has a plurality of radial recesses at its inaccessible end. A locking staple of wire is driven into the open ends of the grooves. The curved ends of the grooves deflect the wire outwardly into recesses in the nut.

DESIGNS

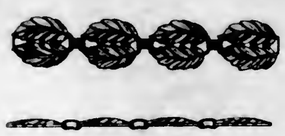
OCTOBER 28, 1952

168,013
CENTRIFUGAL SEPARATOR
Conrad F. Åller, Stockholm, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application September 16, 1949, Serial No. 5,045
Term of patent 14 years
(Cl. D23—1)



The ornamental design for a centrifugal separator, as shown and described.

168,014
ORNAMENTAL CHAIN
Gottlob Armbrust, Providence, R. I.
Application August 4, 1949, Serial No. 4,303
Term of patent 3½ years
(Cl. D45—16)



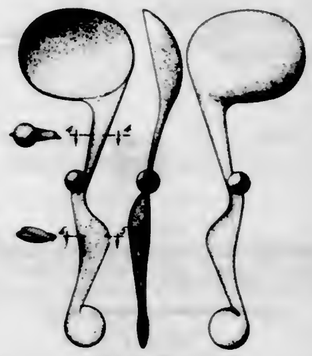
The ornamental design for an ornamental chain, substantially as shown.

168,015
TOY ANIMAL FIGURE OR THE LIKE
Arnold Henry Bergier, New York, N. Y., assignor to Flex-Art Inc., Rutherford, N. J., a corporation of New Jersey
Application March 29, 1951, Serial No. 14,662
Term of patent 3½ years
(Cl. D34—2)



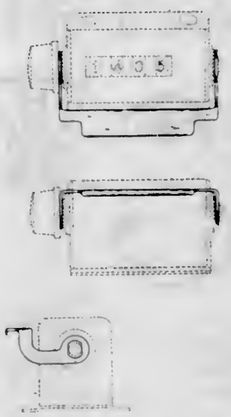
The ornamental design for a toy animal figure or the like, as shown.

168,016
TABLESPOON OR SIMILAR ARTICLE
Jaime Dario Lopez Bermudez, Mexico City, Mexico
Application June 11, 1951, Serial No. 15,500
Term of patent 7 years
(Cl. D44—29)



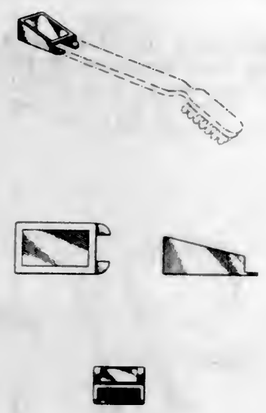
The ornamental design for a tablespoon or similar article, substantially as shown.

168,017
DESK TALLY
Clarence W. Braatz, Milwaukee, Wis., assignor to Durant Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin
Application January 9, 1952, Serial No. 17,977
Term of patent 14 years
(Cl. D74—1)



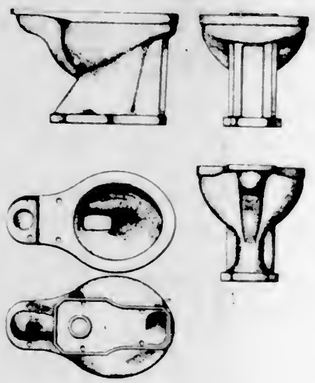
The ornamental design for a desk tally, substantially as shown and described.

168,018
DETACHABLE SLIDE DENTAL MIRROR
Leonard Roy Cohn, New York, N. Y.
Application October 9, 1950, Serial No. 12,492
Term of patent 14 years
(Cl. D9—2)



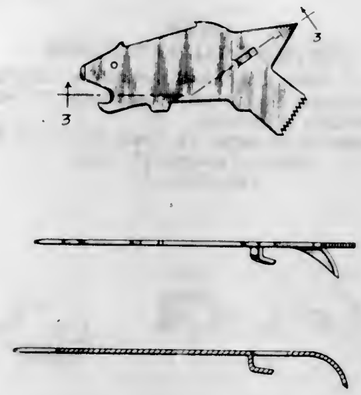
The ornamental design for a detachable slide dental mirror, as shown.

168,019
TOILET BOWL
Willis B. Cramer, Perrysville, Ohio, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio, a corporation of Ohio
Application November 15, 1951, Serial No. 17,426
Term of patent 14 years
(Cl. D4—5)



The ornamental design for a toilet bowl, substantially as shown.

168,020
COMBINED CAN AND BOTTLE OPENER, SCALER, AND SCREW DRIVER
Joe L. Davis, Jr., Magnolia, Ark.
Application June 4, 1952, Serial No. 20,033
Term of patent 7 years
(Cl. D44—29)



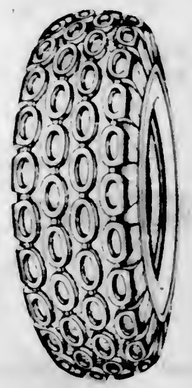
The ornamental design for a combined can and bottle opener, scaler, and screwdriver, substantially as shown.

168,021
INFANT FEEDING SPOON
Jean de Hymel, Pasadena, Calif.
Application August 4, 1952, Serial No. 20,893
Term of patent 14 years
(Cl. D44—29)



The ornamental design for an infant feeding spoon, substantially as shown.

168,022
TIRE
Harold W. Delzell, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application June 14, 1952, Serial No. 20,209
Term of patent 14 years
(Cl. D90—20)



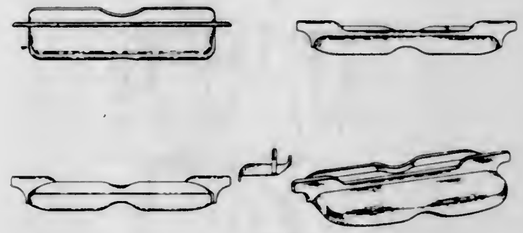
The ornamental design for a tire, as shown.

168,023
PLATE
Anthony L. Dragonetti, Trenton, N. J., assignor to Scammel China Company, Trenton, N. J., a corporation of New Jersey
Application June 2, 1952, Serial No. 19,997
Term of patent 7 years
(Cl. D44—15)



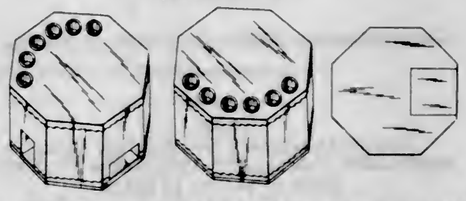
The ornamental design for a plate, as shown and described.

168,024
VISOR FOR SPECTACLES OR SIMILAR ARTICLES
Robert P. Evans, Westwood, Mass., assignor to Visual Research Incorporated, Boston, Mass., a corporation
Application January 23, 1952, Serial No. 18,184
Term of patent 14 years
(Cl. D57—1)



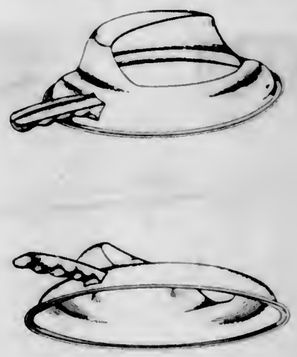
The ornamental design for a visor for spectacles or similar articles, substantially as shown.

168,025
HOLDER FOR DESK ARTICLES
Lionel Edison, New York, N. Y.
Application April 28, 1952, Serial No. 19,507
Term of patent 3½ years
(Cl. D74—1)



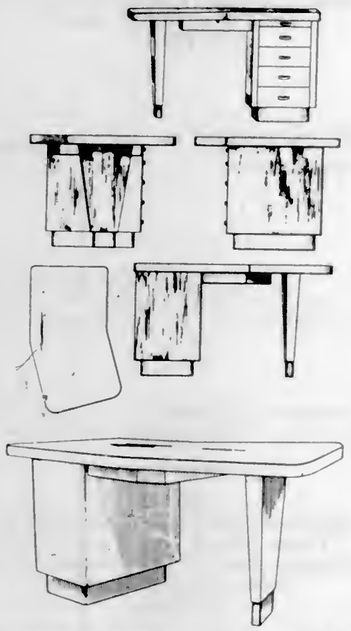
The ornamental design for a holder for desk articles, as shown.

168,026
FRY PAN COVER
Henry G. Fornoff, Los Angeles, Calif.
Application July 25, 1952, Serial No. 20,755
Term of patent 14 years
(Cl. D44—15)



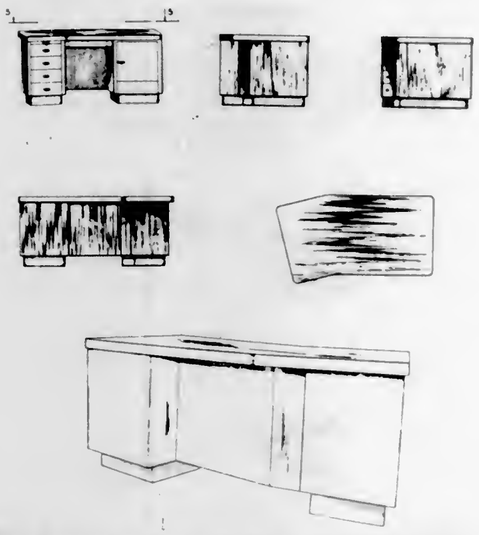
The ornamental design for a fry pan cover, substantially as shown.

168,027
DESK
Arthur O. Garrett, San Marino, Calif.
Application February 20, 1950, Serial No. 8,021
Term of patent 14 years
(Cl. D33—7)



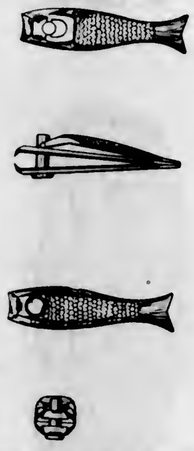
The ornamental design for a desk, as shown.

168,028
DESK
Arthur O. Garrett, San Marino, Calif.
Application February 20, 1950, Serial No. 8,023
Term of patent 14 years
(Cl. D33—7)



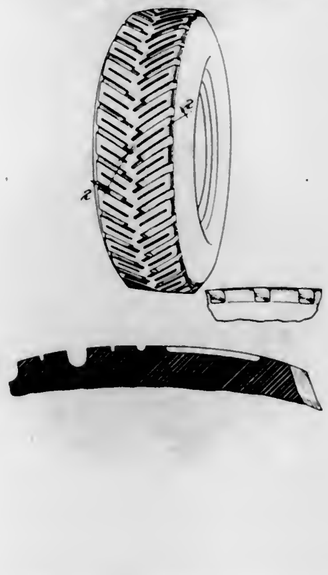
The ornamental design for a desk, as shown.

168,029
NAIL CLIP
John Haliniewski, Irvington, N. J.
Application April 14, 1951, Serial No. 14,838
Term of patent 14 years
(Cl. D86—1)



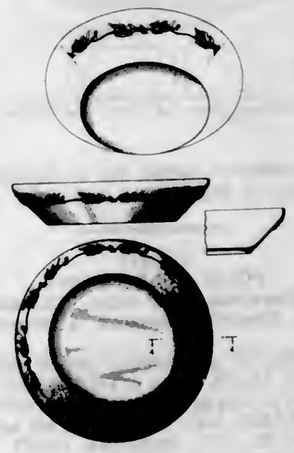
The ornamental design for a nail clip, as shown.

168,030
TIRE
Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application September 15, 1951, Serial No. 16,661
Term of patent 3½ years
(Cl. D90—20)



The ornamental design for a tire, as shown.

168,031
DISH
Jon Hedu, Watertown, Conn., assignor to The Watertown Manufacturing Company, Watertown, Conn., a corporation of Connecticut
Application July 18, 1952, Serial No. 20,667
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a dish, as shown.

168,032
PLATE OR SIMILAR ARTICLE
George J. Higginson, Bronxville, N. Y., assignor to Johnson Bros. (Hanley) Limited, Hanley, England, a British company
Application April 11, 1952, Serial No. 19,295
Term of patent 14 years
(Cl. D44—15)



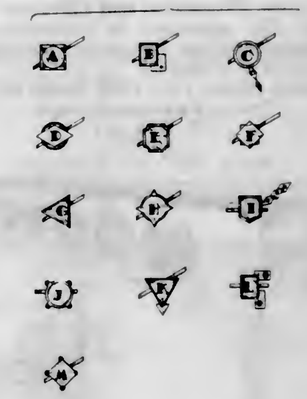
The ornamental design for a plate or similar article, as shown.

168,033
DRIPLESS PITCHER
Thomas Bronston House, Danville, Ky., assignor of one-half to Hazel House Prall, Danville, Ky.
Application June 13, 1952, Serial No. 20,181
Term of patent 14 years
(Cl. D44—21)



The ornamental design for a dripless pitcher, substantially as shown.

168,034
SET OF ORNAMENTAL INITIALS FOR SPECTACLE FRONTS
Samu-El Ish-Shalom, New York, N. Y.
Application April 10, 1952, Serial No. 19,271
Term of patent 14 years
(Cl. D57—1)

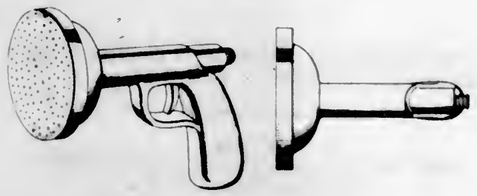


168,034—Continued



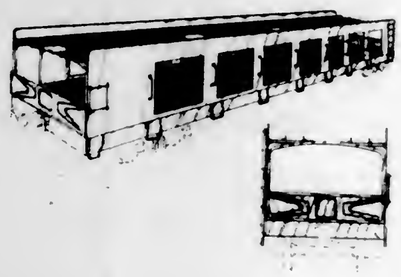
The ornamental design for a set of ornamental initials for spectacle fronts, as shown.

168,035
CLOTHES SPRINKLER
Nan Jacobs, Topeka, Kans.
Application May 29, 1952, Serial No. 19,951
Term of patent 14 years
(Cl. D49—1)

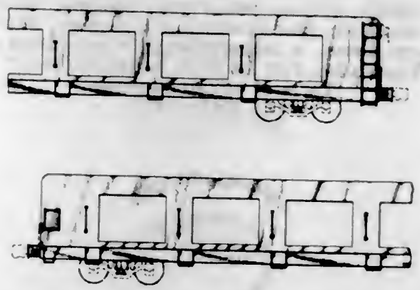


The ornamental design for a clothes sprinkler, as shown.

168,036
RAILWAY VEHICLE
Basil E. Jones, Flossmoor, and Clarence V. Norby, Chicago, Ill., assignors to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application January 23, 1952, Serial No. 18,182
Term of patent 14 years
(Cl. D66—1)

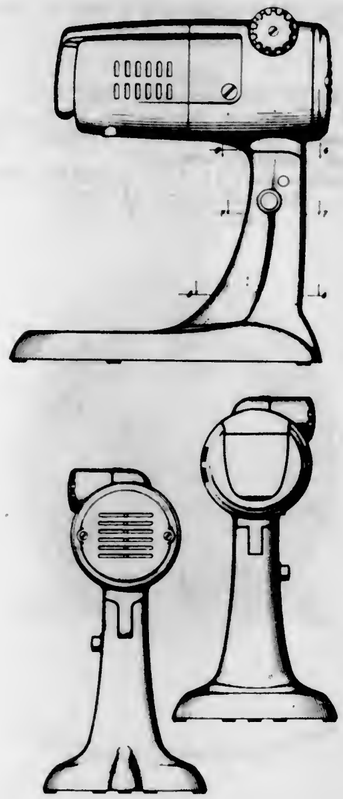


168,036—Continued

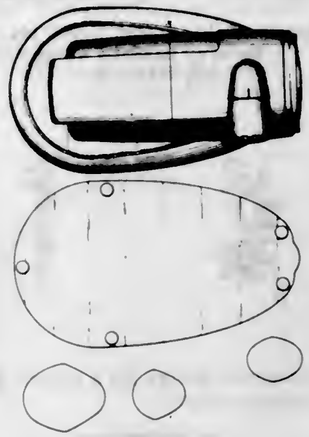


The ornamental design for a railway vehicle, substantially as shown and described.

168,037
FOOD MIXER BODY
Clarence Karstadt, Glen Ellyn, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Continuation of abandoned design application Serial No. 15,372, June 1, 1951, which is a continuation of abandoned design application Serial No. 10,240, May 27, 1950. This application December 29, 1951, Serial No. 17,867
Term of patent 14 years
(Cl. D44—1)



168,037—Continued



The ornamental design for a food mixer body, as shown and described.

168,038
COMBINED CIGARETTE STAND AND HOLDER
Alfred C. Kather, Los Angeles, Calif.
Application May 15, 1951, Serial No. 15,180
Term of patent 14 years
(Cl. D85—8)



The ornamental design for a combined cigarette stand and holder, as shown.

168,039
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,633
Term of patent 7 years
(Cl. D45—19)



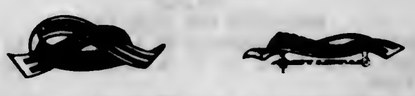
The ornamental design for a brooch or the like, substantially as shown.

168,040
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,634
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

168,041
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,635
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

168,042
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,636
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

168,043
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,637
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

168,044
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,638
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

168,045
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,639
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

168,046
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,640
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

168,047
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,641
Term of patent 7 years
(Cl. D45—19)



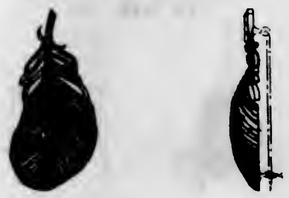
The ornamental design for a brooch or the like, substantially as shown.

168,048
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,642
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

168,049
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 16, 1952, Serial No. 20,643
Term of patent 7 years
(Cl. D45—19)



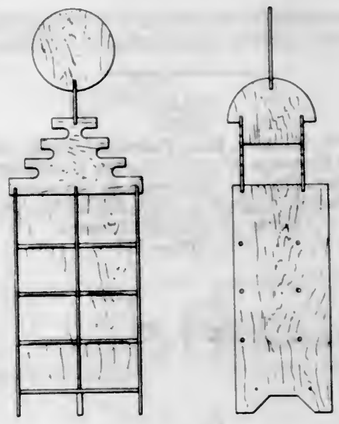
The ornamental design for a brooch or the like, substantially as shown.

168,050
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application August 13, 1952, Serial No. 20,999
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

168,051
DISPLAY STAND
Carl E. Klingner, Medicine Lake, Minn., assignor to Harnischfeger Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application August 8, 1952, Serial No. 20,950
Term of patent 14 years
(Cl. D80—9)



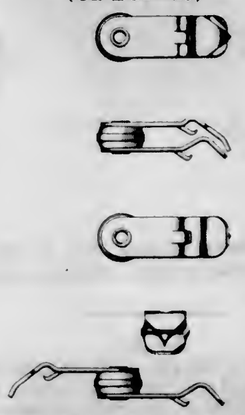
The ornamental design for a display stand, as shown.

168,052
CLOCK
Alan E. Koplar, Chicago, Ill.
Application November 23, 1951, Serial No. 17,501
Term of patent 14 years
(Cl. D42—7)



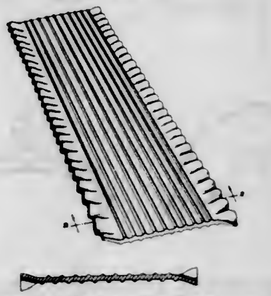
The ornamental design for a clock, as shown.

168,053
FOLDING CAN AND BOTTLE OPENER
Michael J. Laforte, Park Ridge, Ill., assignor to Vaughan Mfg. Co., Chicago, Ill., a corporation of Illinois
Application April 18, 1952, Serial No. 19,383
Term of patent 14 years
(Cl. D44—29)



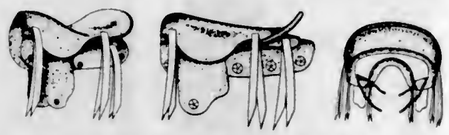
The ornamental design for a folding can and bottle opener, substantially as shown.

168,054
LASAGNA MACARONI
Stefano La Rosa, Woodhaven, N. Y., assignor to V. La Rosa & Sons, Inc., Brooklyn, N. Y., a corporation of New York
Application March 5, 1952, Serial No. 18,782
Term of patent 14 years
(Cl. D8—1)



The ornamental design for Lasagna macaroni, substantially as shown.

168,055
CYCLE SADDLE
James Van Dyne Lundy, Edgewood, R. I., assignor of one-half to Julius H. Warner, Hartford, Conn.
Application January 22, 1952, Serial No. 18,148
Term of patent 14 years
(Cl. D90—16)



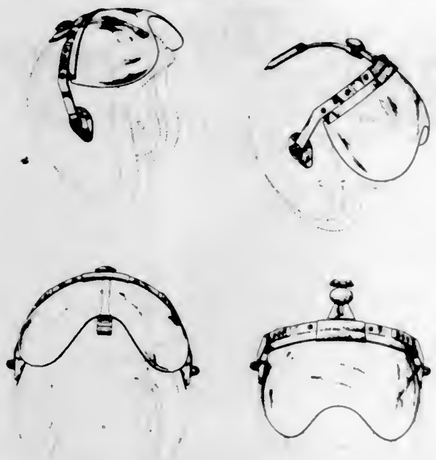
The ornamental design for a cycle saddle, as shown.

168,056
WHEEL COVER MEMBER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application January 18, 1951, Serial No. 13,854
Term of patent 14 years
(Cl. D14—30)

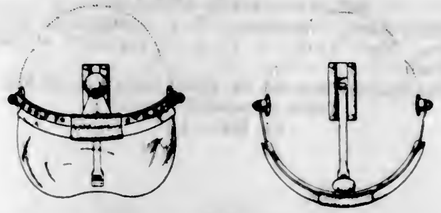


The ornamental design for a wheel cover member or similar article, substantially as shown and described.

168,057
VISOR FOR PILOTS' HELMETS
John A. Margwarth, Sherman Oaks, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application June 28, 1952, Serial No. 20,402
Term of patent 14 years
(Cl. D57—1)



168,057—Continued



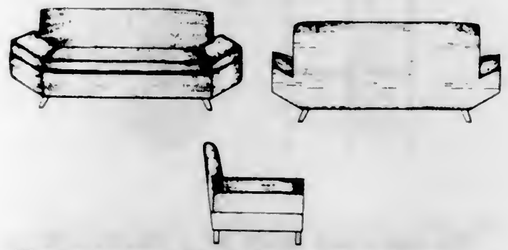
The ornamental design for a visor for pilots' helmets, substantially as shown and described.

168,058
COMBINATION LAMP AND DISPLAY DEVICE
Irving Mark, Chicago, Ill., assignor to Artus D. De Lano, Battle Creek, Mich.
Application July 30, 1952, Serial No. 20,825
Term of patent 14 years
(Cl. D80—1)



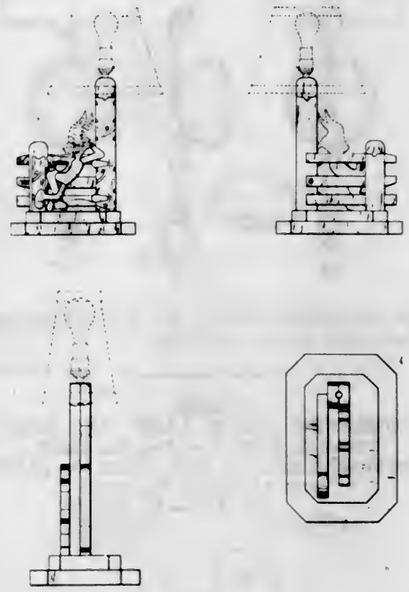
The ornamental design for a combination lamp and display device, substantially as shown.

168,059
SOFA
Howard W. Maurer, East Palestine, Ohio, assignor to The Kenmar Manufacturing Company, East Palestine, Ohio, a corporation of Ohio
Application August 6, 1952, Serial No. 20,935
Term of patent 14 years
(Cl. D15—11)



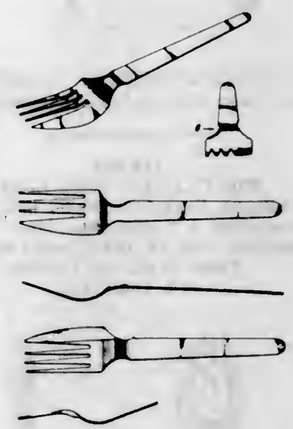
The ornamental design for a sofa, as shown.

168,060
LAMP
Martha M. McDevitt, Atlanta, Ga.
Application November 23, 1951, Serial No. 17,500
Term of patent 7 years
(Cl. D48—20)



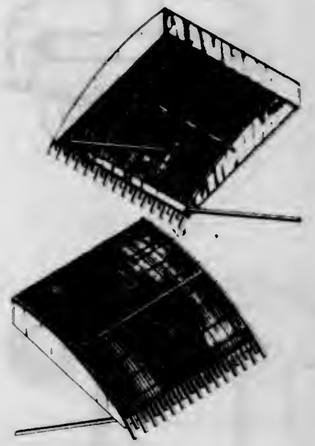
The ornamental design for a lamp, as shown and described.

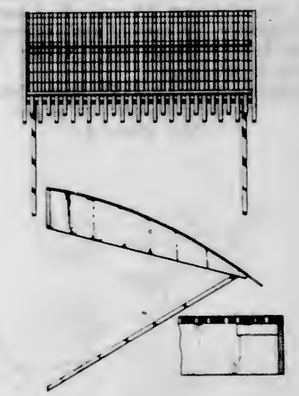
168,061
FORK
John C. Moore, Los Angeles, Calif.
Application November 13, 1951, Serial No. 17,360
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a fork, as shown.

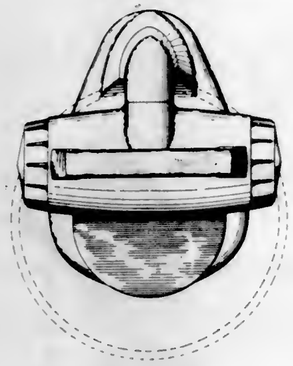
168,062
AWNING
Max E. Moore, Houston, Tex.
Application September 23, 1950, Serial No. 12,307
Term of patent 7 years
(Cl. D21—6)

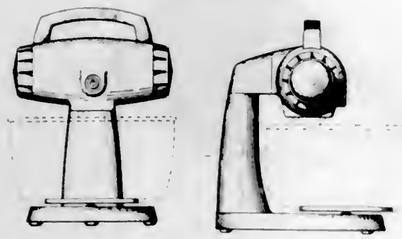




The ornamental design for an awning, substantially as shown and described.

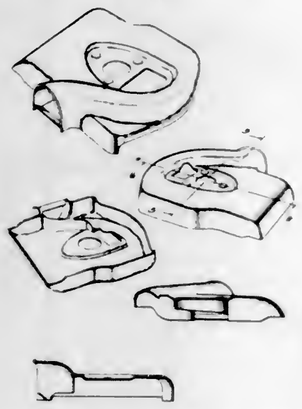
168,063
FOOD MIXER
Walter E. Moore, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application September 15, 1951, Serial No. 16,653
Term of patent 14 years
(Cl. D44—1)





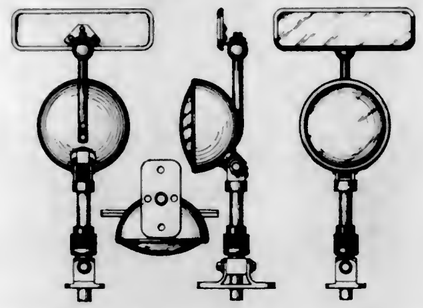
The ornamental design for a food mixer, substantially as shown and described.

168,064
ROTARY MOWER HOUSING
Curtis T. Morris and Thomas E. Coners, Lamar, Mo., assignors, by mesne assignments, to RPM Manufacturing Company, Lamar, Mo., a corporation of Missouri
Application May 28, 1952, Serial No. 19,924
Term of patent 14 years
(Cl. D40—1)



The ornamental design for a rotary mower housing, as shown.

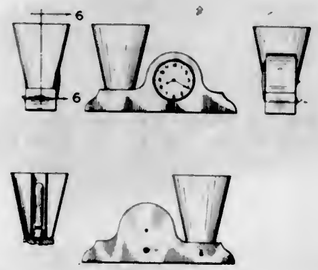
168,065
COMBINED PARKING LAMP AND MIRROR
Herman Paine, Muncie, Ind.
Application November 22, 1950, Serial No. 13,091
Term of patent 14 years
(Cl. D14—6)



The ornamental design for a combined parking lamp and mirror, as shown.

168,066
COMBINED CLOCK, LAMP, AND VASE
Frank R. Perry, Los Angeles, Calif.
Application April 13, 1951, Serial No. 14,814
Term of patent 3½ years
(Cl. D42—7)





The ornamental design for a combined clock, lamp, and vase, substantially as shown.

168,067
PIN CLIP OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 10, 1952, Serial No. 20,543
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a pin clip or the like, substantially as shown.

168,068
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 10, 1952, Serial No. 20,544
Term of patent 7 years
(Cl. D45—19)



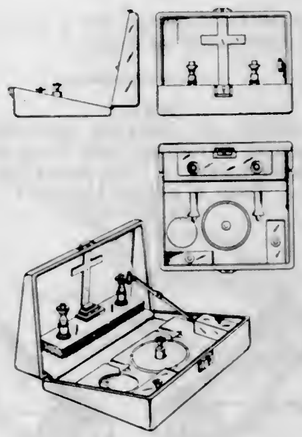
The ornamental design for a brooch or the like, substantially as shown.

168,069
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application July 10, 1952, Serial No. 20,545
Term of patent 7 years
(Cl. D45—19)



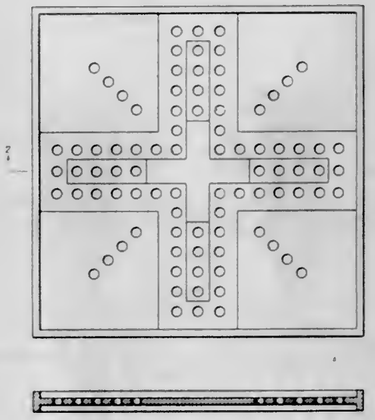
The ornamental design for a brooch or the like, substantially as shown.

168,070
PORTABLE COMMUNION SET CASE
Christian H. Rohlfing, St. Charles, Mo.
Application May 8, 1950, Serial No. 9,780
Term of patent 14 years
(Cl. D29—23)



The ornamental design for a portable communion set case, substantially as shown.

168,071
GAME BOARD FOR USE WITH MARBLES
Karl H. Ruyle, Manitou Springs, Colo.
Application December 6, 1951, Serial No. 17,628
Term of patent 14 years
(Cl. D34—5)



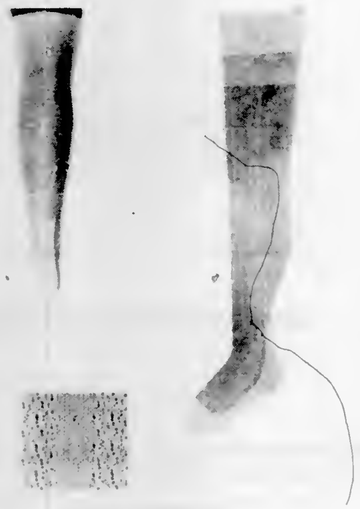
The ornamental design for a game board for use with marbles, as shown.

168,072
STOCKING
Sol Savitz, Philadelphia, Pa.
Application December 31, 1951, Serial No. 18,449
Term of patent 7 years
(Cl. D47—7)



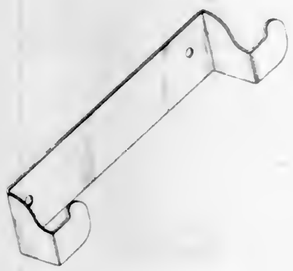
The ornamental design for a stocking, substantially as shown.

168,073
STOCKING
Charles A. Scott, Philadelphia, Pa., assignor to Carla Hosiery Co., Philadelphia, Pa., a corporation of Pennsylvania
Application December 5, 1951, Serial No. 17,610
Term of patent 14 years
(Cl. D47—7)



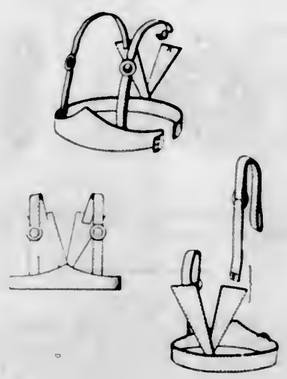
The ornamental design for a stocking, as shown and described.

168,074
BRACKET OR THE LIKE
Thomas R. Symington, Baltimore, Md.
Application January 11, 1949, Serial No. 185
Term of patent 14 years
(Cl. D33—3)



The ornamental design for a bracket or the like, substantially as shown.

168,075
LADY'S SUSPENDER BELT
Henry H. Thorne, Chicago, Ill.
Application March 13, 1951, Serial No. 14,473
Term of patent 14 years
(Cl. D3—10)



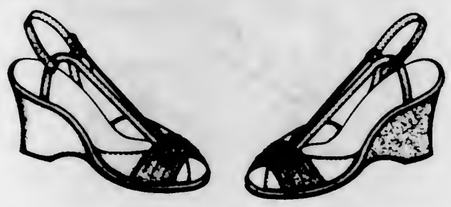
The ornamental design for a lady's suspender belt, substantially as shown.

168,076
SHOE OR SIMILAR ARTICLE
Herman Turiansky, New York, N. Y.
Application July 16, 1952, Serial No. 20,625
Term of patent 3½ years
(Cl. D7—7)



The ornamental design for a shoe or similar article, substantially as shown.

168,077
SHOE OR SIMILAR ARTICLE
Herman Turiansky, New York, N. Y.
Application July 16, 1952, Serial No. 20,626
Term of patent 3½ years
(Cl. D7—7)



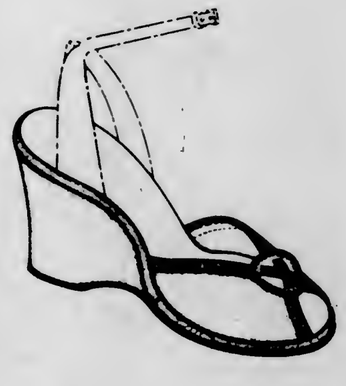
The ornamental design for a shoe or similar article, substantially as shown.

168,078
SHOE OR SIMILAR ARTICLE
Herman Turiansky, New York, N. Y.
Application July 16, 1952, Serial No. 20,627
Term of patent 3½ years
(Cl. D7—7)



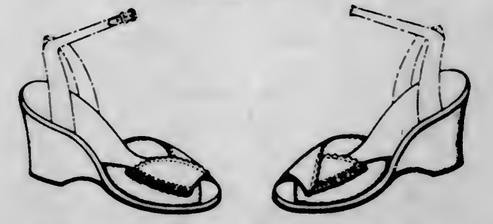
The ornamental design for a shoe or similar article, substantially as shown and described.

168,079
SHOE OR SIMILAR ARTICLE
Herman Turiansky, New York, N. Y.
Application July 16, 1952, Serial No. 20,628
Term of patent 3½ years
(Cl. D7—7)



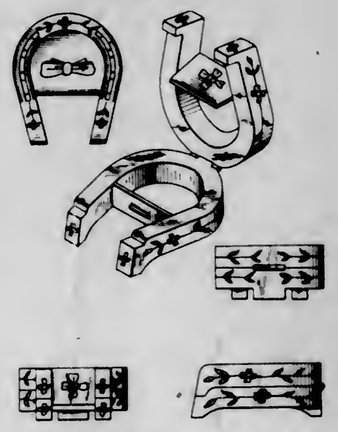
The ornamental design for a shoe or similar article, substantially as shown and described.

168,080
SHOE OR SIMILAR ARTICLE
Herman Turiansky, New York, N. Y.
Application July 16, 1952, Serial No. 20,630
Term of patent 3½ years
(Cl. D7—7)



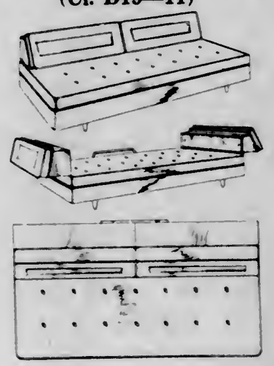
The ornamental design for a shoe or similar article, substantially as shown and described.

168,081
RING DISPLAY BOX
Samuel Tylon, Cleveland, Ohio
Application August 22, 1952, Serial No. 21,156
Term of patent 14 years
(Cl. D80—5)

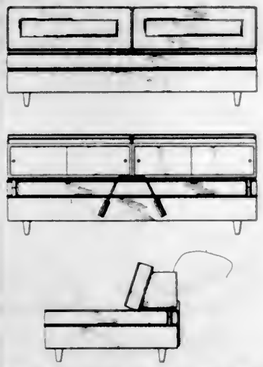


The ornamental design for a ring display box as shown and described.

168,082
SOFA BED
Forest Wilson, Chicago, Ill.
Application November 21, 1950, Serial No. 13,083
Term of patent 3½ years
(Cl. D15—11)



168,082—Continued



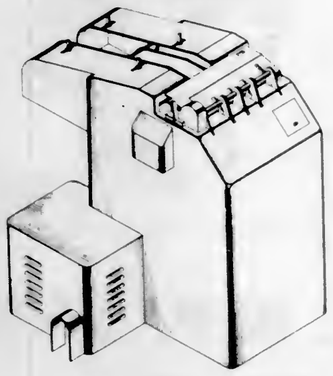
The ornamental design for a sofa bed, as shown.

168,083

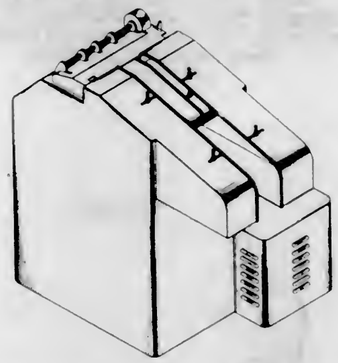
PRINT UNIT FOR PRINTING MACHINES

William Wockenfuss, Brooklyn, N. Y., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan

Application May 29, 1952, Serial No. 20,109
Term of patent 14 years
(Cl. D64—11)



168,083—Continued



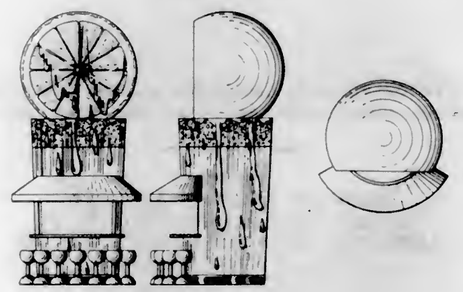
The ornamental design for a print unit for printing machines, substantially as shown.

168,084

COMBINED FOOD AND BEVERAGE VENDING STATION

Louis A. Zon, Buffalo, N. Y.

Application August 12, 1952, Serial No. 20,986
Term of patent 14 years
(Cl. D13—1)



The ornamental design for a combined food and beverage vending station, substantially as shown.

ROLL NO. 23

OFFICIAL GAZETTE UNITED STATES PATENT OFFICE

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CLEVELAND 3, OHIO